

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

**BID C2294A BUILDING D 2nd FLOOR LABS MECHANICAL
SYSTEM UPGRADES PROJECT AT THE LIBERAL ARTS CAMPUS**

ADDENDUM NO. 3

October 15, 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. 3 CONTENTS

- I. QUESTIONS AND ANSWERS**
- II. CHANGES TO SPECIAL CONDITIONS**
- III. UPDATED SPECIFICATIONS**
- IV. AMENDED BID PROPOSAL FORM**
- V. REVISED FORM OF AGREEMENT**
- VI. 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 the Contractor may reference as-builts as shown in Attachment 5: Building D As-Builts.*
2. Q: What is the height above the acoustical ceiling on the 2nd floor?
A: *See Attachment 1: Building D As-Builts.*
3. Q: We are to provide electrical conduits on the roof, will the conduits be able to run on top of the roof or will we have to penetrate below the roof and pop back-up in new location?
A: *Conduits to be run on the roof on a neoprene blocks, the conduit routing must be coordinated in the field underneath the existing rooftop GateWalk.*
4. 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 are affected in the construction process must be restored and repaired by the Contractor.

5. Q: It appears that access to the existing fume hood exhaust air valves are located above the hard lid ceilings. Will ceiling access doors be required to be installed for access to the exhaust air valves?
A: The Contractor to field verify access to all fume hood exhaust air valves, existing access to the valves is in the front of the hoods. If the exhaust valves are installed in inaccessible locations, the contractor is to provide access doors. The Contractor to patch, paint and repair all items that require installation of new valves.
6. 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.
7. Q: Who is the current Campus HVAC Programmable subcontractor?
A: Trane is the Campus-wide HVAC Programmable vendor at Long Beach City College.
8. 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 phase.
9. Q: Does the existing building have a Fire Life Safety consultant?
A: The existing building has a fire alarm system; Johnson Control Inc is the vendor at Long Beach City College. Any work affecting the Fire Alarm System to be coordinated with the District 2-week prior to any activity, and not the system provider.
10. 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 D will be coordinated through the District.

II. CHANGES TO SPECIAL CONDITIONS

1. Revised Schedule of Milestones – Attachment D to Special Conditions.
 - a. Submittal and Construction Phases. The Work shall be completed in two separate Phases and will be issued with two separate Notice to Proceed documents: (i) Submittal Phase; and (ii) Construction Phase. Completion dates and other requirements for each Phase are set forth in this addendum as part of the revised Attachment D Schedule of Milestones attached herein as Attachment 1. Notwithstanding completion of the Work in Phases, the scope of Work described in the Contract Documents is not modified by this addendum, except as expressly set forth herein.
 - i. Mechanical Equipment Submittal Phase – Milestone 2. Mechanical Equipment Submittal Phase consists generally of the Contractor submission of Submittals required by the Contract Documents for the Mechanical System.
 - ii. Mechanical Equipment Procurement – Milestone 4. Mechanical Equipment Procurement consists of the Contractor ordering and storage of the Mechanical Equipment and delivery to the Site and incorporation into the Work.

2. Addition of Special Conditions Article 17.52 – Prevailing Wage Rates.
 - a. Special Conditions are amended by the addition of Article 17.52 as follows:

Article 17.52 Prevailing Wage Rates. Notwithstanding the adjustment of any applicable prevailing wage rates for any classification of labor necessary to complete the Work that may occur after the advertisement of the Notice Calling for Bids for the Work, pursuant to Labor Code §1773.6, prevailing wage rates for the Work, including without limitation any Changes to the Work, shall be the prevailing wage rate in effect as of the date of advertisement of the Notice Calling for Bids.

III. UPDATED SPECIFICATIONS

1. TABLE OF CONTENTS
2. DIVISION 07 – THERMAL AND MOISTURE PROTECTION
 - i. 078413 – Penetration Firestopping
3. DIVISION 08 – DOORS AND WINDOWS
 - i. 083113 – Access Doors and Frames

IV. AMENDED BID PROPOSAL FORM

1. The form of Bid Proposal is amended as set forth in Attachment 2 to this addendum. Bidders must submit Bid Proposals on the form of Bid Proposal set forth in Attachment 2; a Bid Proposal which is not submitted on the Attachment 2 form of Bid Proposal will be rejected for non-responsiveness.

V. REVISED FORM OF AGREEMENT

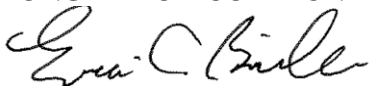
1. The form of Agreement is revised as set forth in Attachment 3 to this addendum. The successful Bidder will be required to execute the Agreement attached hereto Attachment 3.

VI. ATTACHMENTS

1. Revised Schedule of Milestones – Attachment D to Special Conditions
2. Amended Form of Bid Proposal
3. Revised Form of Agreement
4. Updated Specifications
5. Building D As-Builts

*****END OF ADDENDUM NO. 3*****

LONG BEACH COMMUNITY COLLEGE DISTRICT



**Erica Bonilla,
Deputy Director, Purchasing and Contracts**

(ADDENDUM 3 ATTACHMENT 1)
SCHEDULE OF MILESTONES
Attachment D to Special Conditions

**PROJECT: BID C2294A BUILDING D 2ND FLOOR LABS
MECHANICAL SYSTEM UPGRADES**

Milestone	Portion of Work	Date	Liquidated Damages Per Day
1	Notice to Proceed for Submittals, Procurement Phase	TBD	
2	Submittals for Mechanical Equipment and long lead time items	14 calendar days from NTP	\$1,000.00
3	Submittal Schedule and Logistics Plan	14 calendar days from NTP	\$1,000.00
4	Mechanical Equipment and long lead time items to arrive onsite.	June 09, 2022	\$1,000.00
5	Notice to Proceed for Construction Phase	June 09, 2022	\$1,000.00
6	Substantial Completion	50 calendar days from Construction NTP	\$1,000.00
7	Punchlist Completion	14 calendar days from Substantial Completion	\$500.00

**(ADDENDUM NO. 3 ATTACHMENT 2)
AMENDED FORM OF BID PROPOSAL**

Project: BID C2294A BUILDING D 2ND FLOOR LABS MECHANICAL SYSTEM UPGRADES

Bidder Name	_____	
Bidder Representative(s)	Name and Title _____	
	Name and Title _____	
Bidder Representative(s) Contact Information	Email Address(es)	Phone/Cell Phone
	_____ _____	(_____) _____ Telephone (_____) _____ Cell Phone
Bidder Mailing Address	Address _____	
	City/State/Zip Code _____	
California Contractors' License	_____	
	Number _____ Classification(s) and Expiration Date _____	

1. Bid Proposal.

1.1. Bid Proposal Amount. The undersigned Bidder proposes and agrees to furnish and install the Work including, without limitation, providing and furnishing any and all labor, materials, tools, equipment and services necessary to complete, in a workmanlike manner in accordance with the Contract Documents, all of the Work described as: **BID C2294A BUILDING D 2ND FLOOR LABS MECHANICAL SYSTEM UPGRADES**, for the sum of:

\$, , .

Dollars

(in words; printed or typed)

The Bid Proposal Amount includes all Allowances set forth in Paragraph 1.3, below and the total Composite Unit Price, if any, set forth in Paragraph 1.4 and detailed in Attachment A. The Bidder confirms that it has checked all of the above figures and understands that neither the District nor any of its agents, employees or representatives shall be responsible for any assumptions, errors or omissions on the part of the undersigned Bidder in preparing and submitting this Bid Proposal.

1.2. Mechanical Equipment. The Bid Proposal Price set forth in Paragraph 1.1 incorporates costs for procuring, storing and delivering Mechanical Equipment to the Site as described in Addendum No.3 in the amount _____ Dollars (\$_____) ("Mechanical Equipment Price"). The Bidder acknowledges that this Bid Proposal may be rejected for non-responsiveness if the District reasonably determines that the Mechanical Equipment Price: (i) is unreasonably unbalanced relative to the value of all other Work subject to the Bid Proposal; (ii) exceeds reasonable marketplace costs.

1.3. Acknowledgment of Bid Addenda. The Bidder confirms that this Bid Proposal incorporates and is inclusive of, all items or other matters contained in Bid Addenda, if any, issued by or on behalf of the District.

_____ **Addenda Nos.** _____ received, acknowledged
 (initial) and incorporated into this Bid Proposal.

1.4. Allowance. The Bidder and District acknowledge that the Bid Proposal Price set forth above includes an Allowance Amount in the aggregate amount of Fifty Thousand Dollars (\$50,000), which is allocated for Unforeseen Conditions and Permits. Although included in the Bid Proposal Amount, Allowances belong solely to the District and shall be expended only upon written direction by the District, to be granted or denied in its sole discretion. Any Allowance amount not fully consumed shall belong solely to the District and shall be refunded to the District by a deductive change order. By submitting this Bid Proposal, the Bidder confirms that the Bid Proposal Amount set forth in Paragraph 1.1 is inclusive of all Allowances.

1.5. Unit Price Items. **[NOT APPLICABLE]** If applicable, the Bidder’s price proposals for Unit Price Items are set forth in the form of a Composite Unit Price Item Proposal included herewith as Attachment A hereto. The amount of the Composite Unit Price Proposal in Attachment A hereto is included in the Bid Proposal Amount set forth above in Paragraph 1.1. Although the Unit Price Items will be considered in the determination of the lowest Bid Proposal Amount, Unit Price Items will not form the basis for the District’s Contract Price for any Contract awarded. During performance of the Work, the District may elect to add or delete any Unit Price Item set forth in Attachment A. If the District elects to add or delete any Unit Price Item set forth below, the debit or credit for such Unit Price Item shall be in accordance with the Unit Prices set forth in Attachment A hereto.

1.6. Alternate Bid Items. **[NOT APPLICABLE]** The Bidder’s proposed pricing for each Alternate Bid Item, if any, are set forth in the accompanying form of Alternate Bid Items Proposal, Attachment B. Failure of a Bidder to propose pricing for each Alternate Bid Item set forth in the accompanying Alternate Bid Items Proposal will result in the Bid Proposal being deemed non-responsive and rejected.

2. Documents Accompanying Bid Proposal. The Bidder has submitted with this Bid Proposal the following:

Bid Security	Statement of Qualifications
Subcontractors List	DIR Registration Verification
Non-Collusion Affidavit	

The Bidder acknowledges that if this Bid Proposal and the foregoing documents are not fully in compliance with applicable requirements set forth in the Call for Bids, the Instructions for Bidders and in each of the foregoing documents, the Bid Proposal may be rejected as non-responsive.

3. Award of Contract. If the Bidder submitting this Bid Proposal is awarded the Contract, the undersigned will execute and deliver to the District the Agreement in the form attached hereto within seven (7) calendar days after notification of award of the Contract. Concurrently with delivery of the executed Agreement to the District, the Bidder awarded the Contract shall deliver to the District: (i) Performance Bond; (ii) Labor and Material Payment Bond; (iii) Drug-Free Workplace Certificate; and (iv) Certificates of Insurance evidencing all insurance coverages required under the Contract Documents. Failure of the Bidder awarded the Contract to strictly comply with the preceding may result in the District’s rescinding award of the Contract and/or forfeiture of the Bidder’s Bid Security. In such event, the District may, in its sole and exclusive discretion elect to award the Contract to the responsible Bidder submitting the next lowest priced Bid Proposal or to reject all Bid Proposals.

4. Contractors' License. The Bidder certifies that: (i) it possesses a valid and in good standing Contractors' License, in the necessary class(es), for performing the Work as set for in the Call for Bids; (ii) that such license shall be in full force and effect throughout the duration of the performance of the Work; and (iii) that all Subcontractors providing or performing any portion of the Work are properly licensed to perform their respective portions of the Work at the time of submitting this Bid Proposal and will remain so properly licensed at all times during their performance of the Work.
5. Agreement to Bidding Requirements and Attorneys' Fees. The undersigned Bidder acknowledges and confirms its receipt, review and agreement with, the contractual requirements set forth in this Bid Proposal and the Contract Documents. By executing this Bid Proposal hereinbelow, the Bidder expressly acknowledges and agrees that if the Bidder institutes any legal or equitable proceedings in connection with this Bid Proposal and the District is named as a party thereto, the prevailing party(ies) shall recover from the other party(ies), as costs, all attorneys' fees and costs incurred in connection with any such proceeding, including any appeal arising therefrom. This provision shall constitute a binding attorneys' fee agreement in accordance with and pursuant to California Civil Code §1717 which shall be enforceable against the Bidder and the District. This attorneys' fee provision shall be solely limited to legal or equitable proceedings arising out of a bid protest or the bidding process and shall not extend to or have any force and effect on the Contract for the Work or to modify the terms of the Contract Documents for the Work.
6. Acknowledgment and Confirmation. The undersigned Bidder acknowledges its receipt, review and understanding of the Drawings, the Specifications and other Contract Documents pertaining to the proposed Work. The undersigned Bidder certifies that the Contract Documents are, in its opinion, adequate, feasible and complete for providing, performing and constructing the Work in a sound and suitable manner for the use specified and intended by the Contract Documents. The undersigned Bidder certifies that it has, or has available, all necessary equipment, personnel, materials, facilities and technical and financial ability to complete the Work for the amount bid herein within the Contract Time and in accordance with the Contract Documents.

By: _____

(Signature of Bidder's Authorized Officer
or Representative)

(Typed or Printed Name)

**(ADDENDUM NO. 3 ATTACHMENT 3)
REVISED FORM OF AGREEMENT**

THIS AGREEMENT is entered into on _____ in the City of Long Beach, County of Los Angeles, State of California, by and between **LONG BEACH COMMUNITY COLLEGE DISTRICT**, a California Community College District hereinafter "District" and _____ ("Contractor").

WHEREAS, the District and the Contractor in consideration of the mutual covenants contained herein agree as follows:

1. The Work. Within the Contract Time and for the Contract Price, subject to adjustments thereto pursuant to the Contract Documents, the Contractor shall perform and provide all necessary labor, materials, tools, equipment, utilities, services and transportation to complete in a workmanlike manner all of the Work required in connection with the work of improvement commonly referred to as **BID C2294A BUILDING D 2ND FLOOR LABS MECHANICAL SYSTEM UPGRADES**. Contractor shall complete all Work covered by the Contract Documents, including without limitation, the Drawings and Specifications prepared by the Architect, _____ and other Contract Documents enumerated in Article 6 below, along with all modifications and addenda thereto issued in accordance with the Contract Documents. The Work shall be completed as set forth below.

1.1. Mechanical Equipment Phase. Upon the District's issuance of a Notice to Proceed with the Mechanical Equipment Phase of the Work ("Equipment NTP"), the Contractor shall prepare and submit Submittals for the Mechanical Equipment described below in accordance the Contract Documents ("Mechanical Submittals") for review and acceptance/approval by the Architect/Engineer. Upon Architect/Engineer acceptance/approval of the Mechanical Submittals, the Contractor shall place orders for procurement of the Mechanical Equipment. Pending delivery to the Site for installation the Contractor shall store the Contractor procured Mechanical Equipment in a Contractor owned/controlled facility or other facility acceptable to the District. Pending delivery of Mechanical Equipment to the Site the risk of loss, theft, damage or destruction to all or any portion of the Mechanical Equipment shall be borne by the Contractor. The following shall apply to the Mechanical Equipment Phase.

1.1.1. Mechanical Equipment Phase Contract Time. The Contractor shall complete procurement, including delivery to the designated facility, of all Mechanical Equipment by June 9, 2022.

1.1.2. Transportation and Storage. The Contractor is solely responsible for transportation and the cost thereof, of the Mechanical Equipment from the manufacturer/distributor to the designated storage facility and for delivery of the Mechanical Equipment to the Site for installation. Contractor shall store Mechanical Equipment in original packaging, containers, or bundles (with seals unbroken), bearing name or identification mark of manufacturer and the Mechanical Equipment, along with prominently marked "Long Beach Community College District Building D 2nd Mechanical Project". Mechanical Equipment shall be stored in a Contractor owned/controlled facility with limited access to the area where the Mechanical Equipment is stored.

1.1.3. Insurance. In addition to other insurance obligations of the Contractor, the Contractor shall maintain property damage insurance covering the facility where Mechanical Equipment is stored which includes coverage for damage or destruction to the contents of the facility, including the Mechanical Equipment. Coverage limits of such policy shall not be less than One Million Dollars (\$1,000,000) per occurrence and Two Million Dollars (\$2,000,000) in the aggregate. The District shall be an Additional Insured under such policy of insurance.

1.1.4. Theft, Damage or Destruction. The risk of theft, loss, damage or destruction of the Mechanical Equipment or any portion thereof is solely that of the Contractor. The Contract Price and the Contract Time are not subject to adjustment for theft, loss, damage or destruction of the Mechanical Equipment.

1.1.5. Payment and Title. Payment for the Mechanical Equipment Phase shall be limited to the Mechanical Equipment Contract Price set forth below. Upon the District's payment of the Mechanical Equipment Contract Price, fee title to the Mechanical Equipment, free and clear of security interests and other encumbrances shall vest in the District. The Contractor shall execute such instruments as reasonably requested by the District to evidence conveyance of fee title to the Mechanical Equipment to the District.

1.2. Construction Phase. Upon the District's issuance of the Notice to Proceed for the Construction Phase for all field work ("Construction NTP") the Contractor shall commence the Work of the Contract Documents at the Site. Work of the Construction Phase shall be in accordance with the Contract Documents.

2. Construction Phase Contract Time. The Contractor shall achieve Substantial Completion the Field Work Phase within the Field Work Contract Time which is **fifty (50)** calendar days after the date established in the Notice to Proceed issued by or on behalf of the District for commencement of the Construction Phase. Except for specific references in the Contract Documents to the Mechanical Equipment Contract Time, all references in the Contract Documents to the "Contract Time" are deemed to refer to the Construction Contract Time.

3. Contract Price. The District shall pay the Contractor as full consideration for the Contractor's full, complete and faithful performance of the Contractor's obligations under the Contract Documents, subject to adjustments of the Contract Price in accordance with the Contract Documents, the Contract Price of _____ Dollars (\$_____). The Contract Price is allocated between the Mechanical Equipment Phase and the Field Work Phase as follows:

Phase	Portion of Contract Price
Mechanical Equipment	_____ Dollars (\$_____)
Construction Field Work	_____ Dollars (\$_____)

[CONTINUED NEXT PAGE]

3.1. Mechanical Equipment Contract Price. Payment of the Mechanical Equipment Contract Price shall be subject to the Contractor’s compliance with provisions of the Contract Documents relating to submittal of Applications for Payments. Payments for the Mechanical Equipment Contract Price shall be allocated as follows:

Mechanical Equipment Phase	Portion of Mechanical Contract Price
Mechanical Equipment Submittals Accepted/Approved	_____ Dollars (\$_____)
Contractor Placement of Orders for All Mechanical Equipment	_____ Dollars (\$_____)
All Mechanical Equipment Delivered to Designated Storage Facility	_____ Dollars (\$_____)

3.2. Construction Phase Contract Price. The District’s payment of the Contract Price shall be in accordance with the Contract Documents. Except for specific references in the Contract Documents to the Mechanical Equipment Contract Price, all references in the Contract Documents to the “Contract Price” are deemed to refer to the Construction Contract Price.

4. Allowances. The Contractor and District acknowledge that the Field Services Contract Price set forth above includes an Allowance Amount in the aggregate amount of Fifty Thousand Dollars (\$50,000), which is allocated as follows:

Unforeseen conditions and permits	\$50,000
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Although included in the Contract Price, Allowances belong solely to the District and shall be expended only upon written direction by the District, to be granted or denied in its sole discretion. Contractor shall submit cost data and other descriptive data to establish basis used by Contractor for determining costs associated with designated work attributable to each Allowance. Any Allowance amount not fully consumed shall belong solely to the District and shall be refunded to the District by a deductive change order. Should the Contractor’s actual costs exceed the specified Allowance, the Contractor’s Contract Price will be adjusted by change order in accordance with Contract General Conditions, Article 9.5 of the Terms and Conditions.

5. Unit Price Items. If the Bid Proposal for the Work includes a proposal(s) for Unit Price Item(s), during Contractor’s performance of the Work, the District may elect to add or delete any such Unit Price Item(s). If the District elects to add or delete any such Unit Price Item(s) pursuant to the foregoing, the debit or credit for such Unit Price Item(s) shall be in accordance with the amount(s) set forth in the Contractor’s Unit Price Item(s) Proposal, attached as Attachment A to the Contractor’s Bid Proposal.

6. Liquidated Damages. The Contractor shall be subject to assessment of Liquidated Damages set forth in the Special Conditions if the Contractor: (i) fails to submit each Submittal required by the Contract Documents in accordance with the Submittal Schedule incorporated into the Contractor’s Construction Schedule; or (ii) fails to achieve Substantial Completion of the Work within the Contract Time, subject to adjustments thereto in accordance with the Contract Documents; or (iii) fails to complete all Punchlist items within the time established pursuant to the Contract Documents.

7. Limitation on Damages. In the event of the District’s breach or default of its obligations under the Contract Documents, the damages, if any, recoverable by the Contractor shall be limited to general damages which are directly caused by said breach or default of the District and shall exclude any and all special or consequential damages, if any, suffered by the Contractor. By executing this Agreement, the Contractor expressly acknowledges the foregoing limitation to the recovery only of general damages from the District if the District is in breach or default of its obligations under the

Contract Documents. The Contractor expressly waives any right to and foregoes the recovery of any special or consequential damages from the District including, without limitation, damages for: i) lost or impaired bonding capacity; and/or, ii) lost profits arising out of or in connection with any past, present, or future work of improvement, except for the Project which is the subject of the Contract Documents; and/or (iii) loss of productivity.

8. The Contract Documents. The documents forming a part of the Contract Documents consist of the following:

<p>00 11 13 Notice Calling for Bids, including Bid Addenda Nos. _____</p> <p>00 21 13 Instructions for Bidders</p> <p>00 42 13 Bid Proposal</p> <p>00 42 13 Alternate Bid Proposal Form</p> <p>00 43 24 Pre-Bid Inquiry Form</p> <p>00 45 00 Subcontractors List</p> <p>00 45 10 DIR Registration Verification</p> <p>00 45 13 Statement of Qualifications</p> <p>00 45 19 Non-Collusion Affidavit</p> <p>00 45 26 Certificate of Workers Compensation</p> <p>00 45 27 Drug-Free Workplace Certification</p> <p>00 52 00 Agreement</p> <p>00 61 10 Bid Bond</p> <p>00 61 13 Performance Bond</p> <p>00 61 14 Labor and Material Payment Bond</p> <p>00 62 20 Roof Project Financial Disclosure Certificate</p>	<p>00 62 90 Verification of Certified Payroll Form to Labor Commissioner</p> <p>00 65 36 Guarantee Form</p> <p>00 72 00 General Conditions</p> <p>00 73 00 Special Conditions</p> <p>Attachment A: Academic Calendar</p> <p>Attachment B: Site Acceptance Form</p> <p>Attachment C: Contractor Provided Facilities, Services, Furnishings and Equipment for Project Inspector</p> <p>Attachment D: Schedule of Milestone</p> <p>Attachment E: Contractor Current Record Drawing Certificate</p> <p>Attachment F: Close-Out Forms</p> <p>Attachment G: Site Map</p> <p>Attachment H: Logistics Plan</p> <p>Drawings</p> <p>Specifications</p>
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9. Authority to Execute. The individual(s) executing this Agreement on behalf of the Contractor is/are duly and fully authorized to execute this Agreement on behalf of Contractor and to bind the Contractor to each and every term, condition and covenant of the Contract Documents.

CONTRACTORS ARE REQUIRED BY LAW TO BE LICENSED AND REGULATED BY THE CONTRACTORS' STATE LICENSE BOARD. QUESTIONS CONCERNING A CONTRACTOR MAY BE REFERRED TO THE REGISTRAR, CONTRACTORS' STATE LICENSE BOARD, P.O. BOX 2600, SACRAMENTO, CALIFORNIA 95826

IN WITNESS WHEREOF, this Agreement has been duly executed by the District and the Contractor as of the date set forth above.

**“DISTRICT”
LONG BEACH COMMUNITY COLLEGE DISTRICT**

By: _____

Name: _____

Title: _____

“CONTRACTOR”

By: _____

Name: _____

Title: _____

**ADDENDUM 3 ATTACHMENT 4
UPDATED SPECIFICATIONS**

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2. DIVISION 07 – THERMAL AND MOISTURE PROTECTION
 - i. 078413 – Penetration Firestopping
3. DIVISION 08 – DOORS AND WINDOWS
 - i. 083113 – Access Doors and Frames

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024115 Selective Demolition

District/BMT

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

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District/BMT

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District/BMT

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095113 Acoustical Panel Ceilings
099100 Painting

District/BMT

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SECTION 078413 - PENETRATION FIRESTOPPING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Penetration firestopping systems for the following applications:
 - a. Penetrations in fire-resistance-rated walls.

1.3 ALLOWANCES

- A. Penetration firestopping Work is part of an allowance.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Product Schedule: For each penetration firestopping system. Include location, illustration of firestopping system, and design designation of qualified testing and inspecting agency.
 - 1. Engineering Judgments: Where Project conditions require modification to a qualified testing and inspecting agency's illustration for a particular penetration firestopping system, submit illustration, with modifications marked, approved by penetration firestopping system manufacturer's fire-protection engineer as an engineering judgment or equivalent fire-resistance-rated assembly. Obtain approval of authorities having jurisdiction prior to submittal.

1.5 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Product Test Reports: For each penetration firestopping system, for tests performed by a qualified testing agency.

1.6 CLOSEOUT SUBMITTALS

- A. Installer Certificates: From Installer indicating that penetration firestopping systems have been installed in compliance with requirements and manufacturer's written instructions.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: A firm that has been approved by FM Approval according to FM Approval 4991, "Approval Standard for Firestop Contractors," or been evaluated by UL and found to comply with its "Qualified Firestop Contractor Program Requirements."

1.8 PROJECT CONDITIONS

- A. Environmental Limitations: Do not install penetration firestopping system when ambient or substrate temperatures are outside limits permitted by penetration firestopping system manufacturers or when substrates are wet because of rain, frost, condensation, or other causes.
- B. Install and cure penetration firestopping materials per manufacturer's written instructions using natural means of ventilations or, where this is inadequate, forced-air circulation.

1.9 COORDINATION

- A. Coordinate construction of openings and penetrating items to ensure that penetration firestopping systems can be installed according to specified firestopping system design.
- B. Coordinate sizing of sleeves, openings, core-drilled holes, or cut openings to accommodate penetration firestopping systems.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Fire-Test-Response Characteristics:
 - 1. Perform penetration firestopping system tests by a qualified testing agency acceptable to authorities having jurisdiction.
 - 2. Test per testing standards referenced in "Penetration Firestopping Systems" Article. Provide rated systems complying with the following requirements:
 - a. Penetration firestopping systems shall bear classification marking of a qualified testing agency.
 - 1) UL in its "Fire Resistance Directory."
 - 2) FM Approval in its "Approval Guide."

2.2 PENETRATION FIRESTOPPING SYSTEMS

- A. Penetration Firestopping Systems: Systems that resist spread of fire, passage of smoke and other gases, and maintain original fire-resistance rating of construction penetrated. Penetration firestopping systems shall be compatible with one another, with the substrates forming openings, and with penetrating items if any.

- B. Penetrations in Fire-Resistance-Rated Walls: Penetration firestopping systems with ratings determined per ASTM E814 or UL 1479, based on testing at a positive pressure differential of 0.01-inch wg.
 - 1. F-Rating: Not less than the fire-resistance rating of constructions penetrated.

- C. Manufactured Piping Penetration Firestopping System: Penetration firestopping systems with ratings determined per ASTM E814 or UL 1479, based on testing at a positive pressure differential of 0.01-inch wg.
 - 1. F-Rating: At least one hour, but not less than the fire-resistance rating of constructions penetrated.
 - 2. T-Rating: At least one hour, but not less than the fire-resistance rating of constructions penetrated except for floor penetrations within the cavity of a wall.
 - 3. W-Rating: Provide penetration firestopping systems showing no evidence of water leakage when tested according to UL 1479.
 - 4. Sleeve: Molded-PVC plastic, of length to match slab thickness and with integral nailing flange on one end for installation in cast-in-place concrete slabs.
 - 5. Stack Fitting: ASTM A48/A48M, gray-iron, hubless-pattern wye branch with neoprene O-ring at base and gray-iron plug in thermal-release harness. Include PVC protective cap for plug.
 - 6. Special Coating: Corrosion resistant on interior of fittings.

- D. Accessories: Provide components for each penetration firestopping system that are needed to install fill materials and to maintain ratings required. Use only those components specified by penetration firestopping system manufacturer and approved by qualified testing and inspecting agency for conditions indicated.
 - 1. Permanent forming/damming/backing materials.
 - 2. Substrate primers.
 - 3. Collars.
 - 4. Steel sleeves.

2.3 FILL MATERIALS

- A. Cast-in-Place Firestop Devices: Factory-assembled devices for use in cast-in-place concrete floors and consisting of an outer sleeve lined with an intumescent strip, a flange attached to one end of the sleeve for fastening to concrete formwork, and a neoprene gasket.

- B. Latex Sealants: Single-component latex formulations that do not re-emulsify after cure during exposure to moisture.

- C. Firestop Devices: Factory-assembled collars formed from galvanized steel and lined with intumescent material sized to fit specific diameter of penetrant.

- D. Intumescent Composite Sheets: Rigid panels consisting of aluminum-foil-faced intumescent elastomeric sheet bonded to galvanized-steel sheet.

- E. Intumescent Putties: Nonhardening, water-resistant, intumescent putties containing no solvents or inorganic fibers.

- F. Intumescent Wrap Strips: Single-component intumescent elastomeric sheets with aluminum foil on one side.

- G. Mortars: Prepackaged dry mixes consisting of a blend of inorganic binders, hydraulic cement, fillers and lightweight aggregate formulated for mixing with water at Project site to form a nonshrinking, homogeneous mortar.
- H. Pillows/Bags: Reusable heat-expanding pillows/bags consisting of glass-fiber cloth cases filled with a combination of mineral-fiber, water-insoluble expansion agents, and fire-retardant additives. Where exposed, cover openings with steel-reinforcing wire mesh to protect pillows/bags from being easily removed.
- I. Silicone Foams: Multicomponent, silicone-based liquid elastomers that, when mixed, expand and cure in place to produce a flexible, nonshrinking foam.
- J. Silicone Sealants: Single-component, silicone-based, neutral-curing elastomeric sealants.

2.4 MIXING

- A. Penetration Firestopping Materials: For those products requiring mixing before application, comply with penetration firestopping system manufacturer's written instructions for accurate proportioning of materials, water (if required), type of mixing equipment, selection of mixer speeds, mixing containers, mixing time, and other items or procedures needed to produce products of uniform quality with optimum performance characteristics for application indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements for opening configurations, penetrating items, substrates, and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Surface Cleaning: Before installing penetration firestopping systems, clean out openings immediately to comply with manufacturer's written instructions and with the following requirements:
 - 1. Remove from surfaces of opening substrates and from penetrating items foreign materials that could interfere with adhesion of penetration firestopping materials.
 - 2. Clean opening substrates and penetrating items to produce clean, sound surfaces capable of developing optimum bond with penetration firestopping materials. Remove loose particles remaining from cleaning operation.
 - 3. Remove laitance and form-release agents from concrete.
- B. Prime substrates where recommended in writing by manufacturer using that manufacturer's recommended products and methods. Confine primers to areas of bond; do not allow spillage and migration onto exposed surfaces.

3.3 INSTALLATION

- A. General: Install penetration firestopping systems to comply with manufacturer's written installation instructions and published drawings for products and applications.
- B. Install forming materials and other accessories of types required to support fill materials during their application and in the position needed to produce cross-sectional shapes and depths required to achieve fire ratings.
 - 1. After installing fill materials and allowing them to fully cure, remove combustible forming materials and other accessories not forming permanent components of firestopping.
- C. Install fill materials by proven techniques to produce the following results:
 - 1. Fill voids and cavities formed by openings, forming materials, accessories and penetrating items to achieve required fire-resistance ratings.
 - 2. Apply materials so they contact and adhere to substrates formed by openings and penetrating items.
 - 3. For fill materials that will remain exposed after completing the Work, finish to produce smooth, uniform surfaces that are flush with adjoining finishes.

3.4 IDENTIFICATION

- A. Penetration Identification: Identify each penetration firestopping system with legible metal or plastic labels. Attach labels permanently to surfaces adjacent to and within 6 inches of penetration firestopping system edge so labels are visible to anyone seeking to remove penetrating items or firestopping systems. Use mechanical fasteners or self-adhering-type labels with adhesives capable of permanently bonding labels to surfaces on which labels are placed. Include the following information on labels:
 - 1. The words "Warning - Penetration Firestopping - Do Not Disturb. Notify Building Management of Any Damage."
 - 2. Contractor's name, address, and phone number.
 - 3. Designation of applicable testing and inspecting agency.
 - 4. Date of installation.
 - 5. Manufacturer's name.
 - 6. Installer's name.

3.5 FIELD QUALITY CONTROL

- A. Owner will engage a qualified testing agency to perform tests and inspections according to ASTM E2174.
- B. Where deficiencies are found or penetration firestopping system is damaged or removed because of testing, repair or replace penetration firestopping system to comply with requirements.
- C. Proceed with enclosing penetration firestopping systems with other construction only after inspection reports are issued and installations comply with requirements.

3.6 CLEANING AND PROTECTION

- A. Clean off excess fill materials adjacent to openings as the Work progresses by methods and with cleaning materials that are approved in writing by penetration firestopping system manufacturers and that do not damage materials in which openings occur.
- B. Provide final protection and maintain conditions during and after installation that ensure that penetration firestopping systems are without damage or deterioration at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, immediately cut out and remove damaged or deteriorated penetration firestopping material and install new materials to produce systems complying with specified requirements.

3.7 PENETRATION FIRESTOPPING SYSTEM SCHEDULE

- A. Where UL-classified systems are indicated, they refer to system numbers in UL's "Fire Resistance Directory" under product Category XHEZ.
- B. Refer to As-Built Drawing for location of existing fire rated walls.
- C. Penetration Firestopping Systems for Metallic Pipes, Conduit, or Tubing in U400 wall construction:
 - 1. UL-Classified Systems: W-L-1054 or approved equal.
 - 2. F-Rating: 1 hour and 2 hours.
 - 3. T-Rating: 0 hours.
 - 4. L-Rating at Ambient: Less than 1 cfm/sq. ft.
 - 5. L-Rating at 400 Deg F: Less than 1 cfm/sq. ft.
 - 6. Type of Fill Materials: As required to achieve rating.

END OF SECTION 078413

SECTION 083113 - ACCESS DOORS AND FRAMES

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Access doors and frames for walls and ceilings.

1.2 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of access doors and frames that fails in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - 2. Warranty Period: 2 years.
- B. Installer's Warranty: 1 year.

1.3 MANUFACTURERS

- A. Access Doors and Frames: Subject to compliance with requirements, provide products by one of the following:
 - 1. Karp Associates Inc. (Basis of Design)
 - 2. Acudor.
 - 3. Milcor Inc.
 - 4. Nystrom, Inc.
 - 5. MIFAB.
 - 6. Or equal.

1.4 STEEL MATERIALS

- A. Steel Plates, Shapes, and Bars: ASTM A 36.
 - 1. ASTM A 123, for galvanizing steel and iron products.
 - 2. ASTM A 153, for galvanizing steel and iron hardware.
- B. Steel Sheet: Cold-rolled steel sheet substrate complying with ASTM A 1008, Commercial Steel (CS), exposed.
- C. Steel Finishes: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
 - 1. Factory Surface Preparation for Steel Sheet: Clean surfaces to comply with SSPC-SP 1, "Solvent Cleaning," to remove dirt, oil, grease, or other contaminants that could impair paint bond. Remove mill scale and rust, if present, from uncoated steel, complying with SSPC-SP 5/NACE No. 1, "White Metal Blast Cleaning," or SSPC-SP 8, "Pickling."
 - 2. Field Finish: Factory prime for field painting as specified in Division 9 "Painting".
- D. Drywall Beads: Edge trim formed from 0.0299-inch zinc-coated steel sheet formed to receive joint compound and in size to suit thickness of gypsum board.

1.5 ACCESS DOORS AND FRAMES FOR WALLS AND CEILINGS

- A. Recessed Door to Receive Drywall Type:
1. Fire-Rated: Model 450FR by Karp.
 2. Non-Fire-Rated: Model RDW by Karp.
 3. Frame shall be 14 gage steel and doors shall be 16 gage steel. (Stainless steel at restrooms for plumbing fixture valves, etc.)
 4. Door shall be recessed 1 inch.
 5. Trim shall be galvanized steel dry wall bead.
 6. Hinge shall be concealed pivoting rod type.
 7. Locks shall be flush and screwdriver operated with stainless steel cam and studs, or shall be key operated cylinder lock with automatic dust shutter.
 8. Finish shall be prime coat of rust inhibitive electrostatic powder, baked grey coat.
 9. Door Sizes: As indicated on Drawings.
 10. Field Finish: Comply with Division 9 Section "Painting".
- B. Flange Type:
1. Fire-Rated: Model KRP-250 by Karp.
 2. Non-Fire-Rated: Model DSC-214M by Karp.
 3. Frame shall be 14 gage steel and doors shall be 16 gage steel. (Stainless steel at restrooms for plumbing fixture valves, etc.)
 4. Flange: One-piece construction, 3/4 inch wide.
 5. Hinge shall be concealed continuous piano hinge.
 6. Locks shall be flush and screwdriver operated with stainless steel cam and studs, or shall be key operated cylinder lock with automatic dust shutter.
 7. Finish shall be prime coat of rust inhibitive electrostatic powder, baked grey coat.
 8. Door Sizes: As indicated on Drawings.
 9. Field Finish: Comply with Division 9 Section "Painting".

1.6 FABRICATION

- A. General: Provide access door and frame assemblies manufactured as integral units ready for installation.
- B. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.
- C. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Furnish attachment devices and fasteners of type required to secure access panels to types of supports indicated.
1. Exposed Flanges: Nominal 1 to 1-1/2 inches wide around perimeter of frame.
- D. Latching Mechanisms: Furnish number required to hold doors in flush, smooth plane when closed.
1. For cylinder lock, furnish two keys per lock and key all locks alike.

1.7 FINISHES

- A. Field finish per Division 9 Section "Painting".
- B. Stainless-steel finishes
1. Remove tool and die marks and stretch lines or blend into finish.

2. Grind and polish surfaces to produce uniform, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.
3. Finish: Directional Satin Finish, No. 4.
4. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

END OF SECTION 083113

GOVERNING CODES

LIST OF 1995 CALIFORNIA CODE OF REGULATIONS

APPLICABLE CODES AS OF FEBRUARY 19, 1998:

- 1995 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
- 1995 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.; (1994 UNIFORM BUILDING CODE VOLUMES 1-3, AND 1995 CALIFORNIA AMENDMENTS)
- 1995 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.; (1993 NATIONAL ELECTRICAL CODE AND 1996 CALIFORNIA AMENDMENTS)
- 1995 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.; (1994 UNIFORM MECHANICAL CODE AND 1995 CALIFORNIA AMENDMENTS)
- 1995 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.; (1994 UNIFORM PLUMBING CODE AND 1995 CALIFORNIA AMENDMENTS)
- 1995 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.; (1994 UNIFORM FIRE CODE AND 1995 CALIFORNIA AMENDMENTS)
- 1995 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
- 1990 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE NFPA STANDARDS:

- NFPA 13 - AUTOMATIC SPRINKLER SYSTEMS, 1994 EDITION
- NFPA 14 - STANDPIPES SYSTEMS, 1993 EDITION
- NFPA 17A - WET CHEMICAL SYSTEMS, 1990 EDITION
- NFPA 24 - PRIVATE FIRE MAINS (CALIFORNIA AMENDED) NFPA 72 - NATIONAL FIRE ALARM CODES, 1992 EDITION
- NFPA 253 - CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS, 1993 EDITION
- NFPA 2001 - CLEAN AGENT FIRE EXTINGUISHING SYSTEMS, 1989 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS - CSC [SPM] 3503.1.3

STATE BUILDING CODE
(Part 1, Title 24, C.C.R.)

Due to the difficulty of anticipating every unsatisfactory condition that might be found in existing construction where alteration, rehabilitation or reconstruction work is proposed, the following clause or one of similar meaning shall be included in all specifications for alteration, rehabilitation or reconstruction projects: "The intent of these drawings and specification is that the work of the alteration, rehabilitation or reconstruction is to be in accordance with Title 24, California Code of Regulations. Should any existing conditions such as deterioration or noncomplying construction be discovered which is not covered by the contract documents wherein the finished work will not comply with Title 24, California Code of Regulations, a change order, or a separate set of plans and specifications, detailing and specifying the required work shall be submitted to and approved by the Office before proceeding with the work."

CODE ANALYSIS:

- OCCUPANCY: (B)-OFFICES AND EDUCATION SPACES, (A-3)-ASSEMBLY ROOMS WITH OCCUPANT LOAD OF 50 TO LESS THAN 300, (U)-GREEN HOUSE.
- TYPE OF CONSTRUCTION: TYPE I (EXISTING AND NEW CONSTRUCTION)
- BUILDING AREA (IN SQUARE FEET)

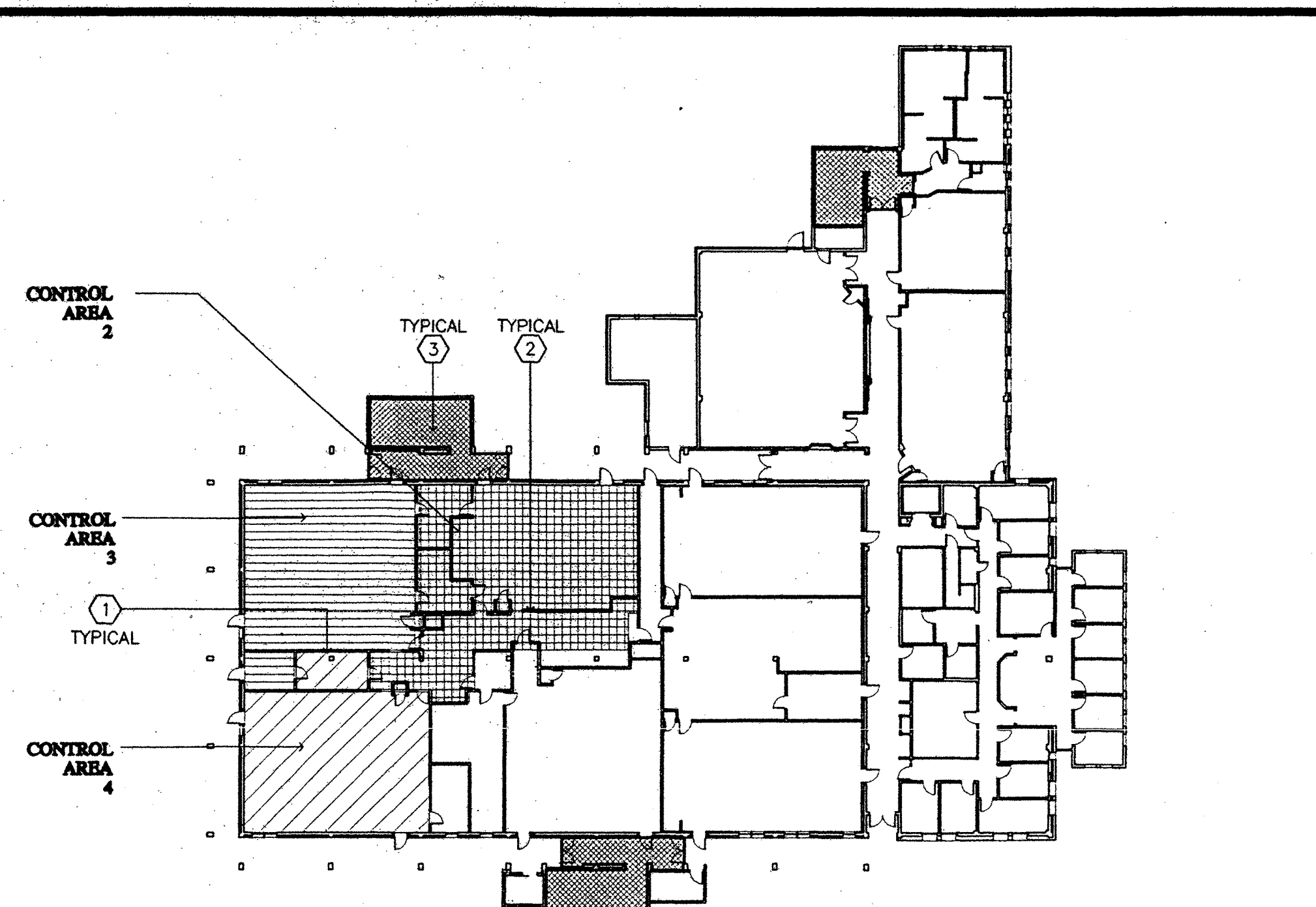
EXIST. BLDG. AREA	COVERED WALKS OF AREA	TOTAL EXIST. AREA	NEW CONST. AREA	TOTAL
				EXIST. AND NEW
1st FLOOR	21,985	1,656	23,651	27,508
2nd FLOOR	22,487	1,435	23,922	25,629
3rd FLOOR	18,082	1,435	19,517	25,581
ROOF LEVEL	2,414	-	2,414	2,414
	64,978	4,526	69,504	11,628
				81,132

* INCLUDES GREEN HOUSE AND GREEN HOUSE SERVICE SHED.

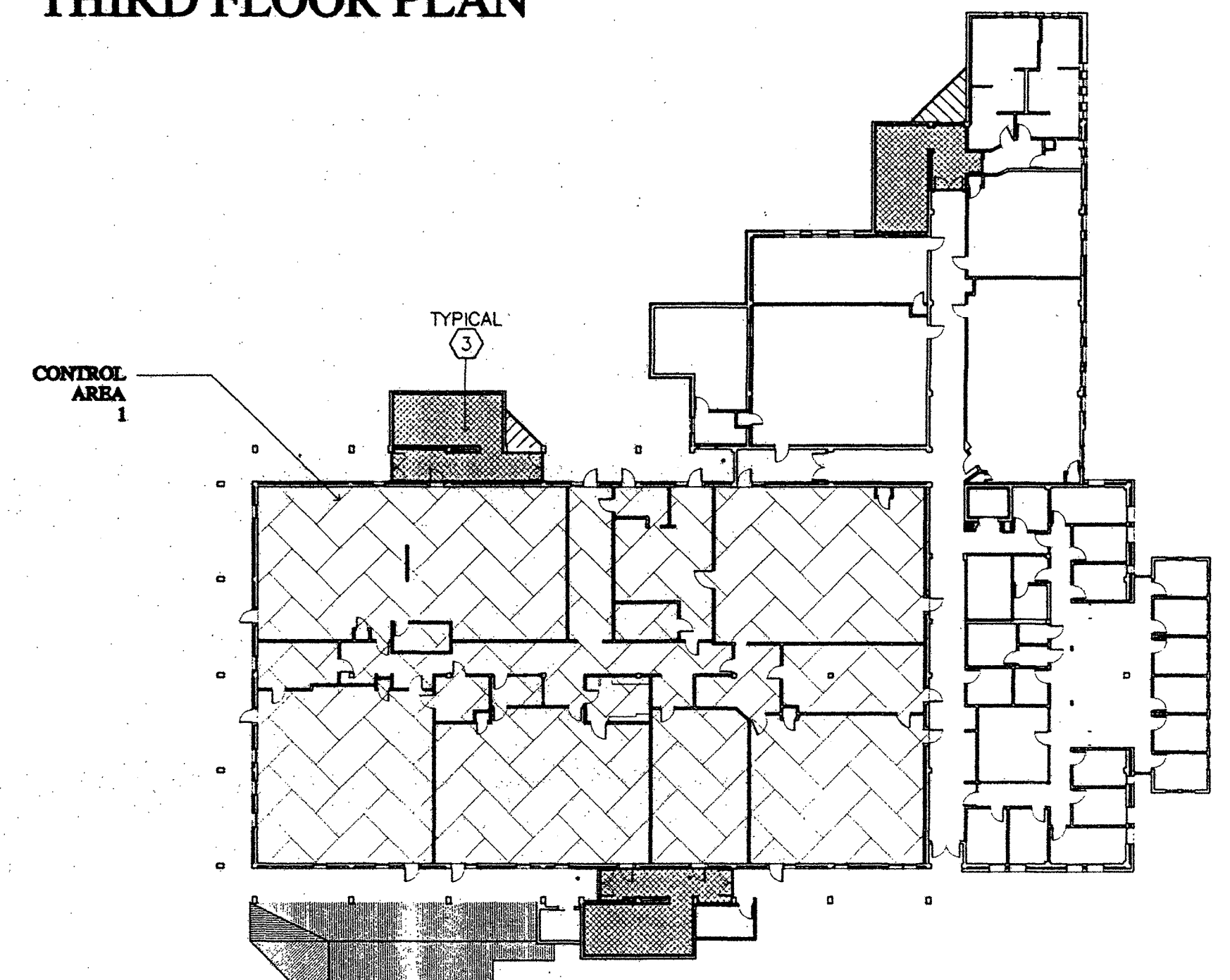
- ALLOWABLE BUILDING AREA: UNLIMITED
- ALLOWABLE BUILDING HEIGHT: UNLIMITED
- EXTERIOR WALL AND OPENING PROJECTION BASED ON LOCATION ON PROPERTY.
 - FOUR HOUR N/C EXTERIOR WALLS.
 - OPENINGS NOT PERMITTED LESS THAN 5 FT. FROM PROPERTY LINE AND PROJECTED LESS THAN 20 FT. FROM PROPERTY LINE.
- PROVIDE ONE HOUR OCCUPANCY SEPARATIONS OF LABORATORIES AND LABORATORY SUITES PER UBC CHAPTER 3.
- EXITING:
 - THIRD FLOOR 563 OCCUPANTS: THREE 5'-6" WIDE ENCLOSED EXIT STAIRS PROVIDED.
 - SECOND FLOOR 588 OCCUPANTS: THREE 5'-6" WIDE ENCLOSED EXIT STAIRS PROVIDED.
 - FIRST FLOOR 875 OCCUPANTS: NUMEROUS EXITS PROVIDED AS SHOWN. THE ENCLOSURES OF THE EXIT STAIRS FROM THE FLOORS ABOVE ARE MAINTAINED TO THE BUILDING EXTERIOR AND ARE 2-HOUR CONSTRUCTION WITH 1 1/2-HOUR PROTECTED OPENINGS PER CBC 1009.

EXITING SCIENCE/MATH BUILDING 'D'
APPLICATION NO. 34173

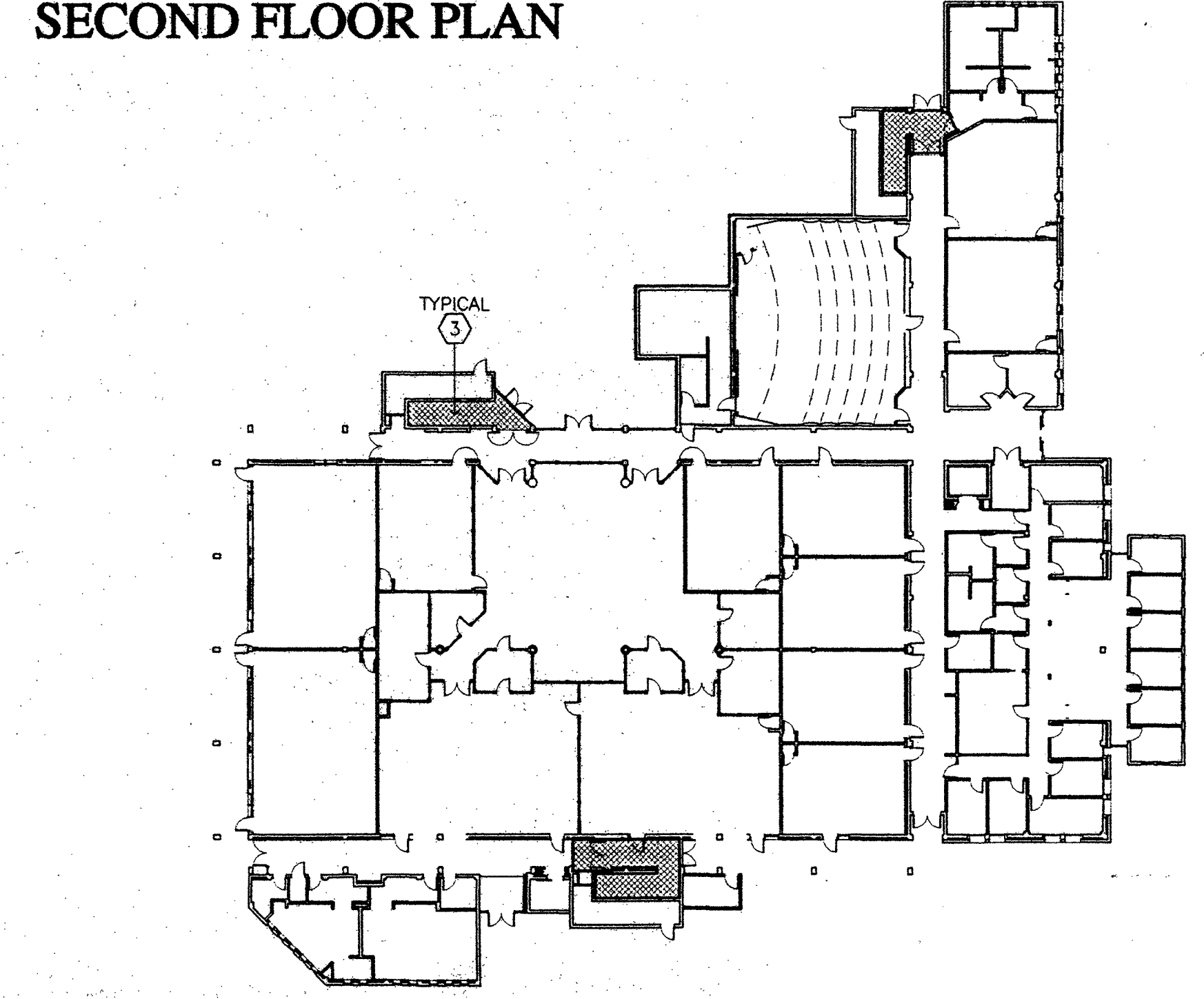
CODE DATA



THIRD FLOOR PLAN



SECOND FLOOR PLAN



FIRST FLOOR PLAN

- GENERAL NOTES:**
- PROVIDE 1 HOUR FIRE-RESISTIVE OCCUPANCY SEPARATION BETWEEN CONTROL AREAS, INCLUDING THE HORIZONTAL SEPARATION BETWEEN 2nd AND 3rd FLOORS.
 - PROVIDE 1 HOUR FIRE-RESISTIVE OCCUPANCY SEPARATION BETWEEN LABORATORIES AND ALL ADJACENT SPACES.
 - PROVIDE 2 HOUR FIRE-RESISTIVE STAIR ENCLOSURE WALLS.

FIRE AND LIFE SAFETY HAZARDOUS MATERIALS SEPARATION ANALYSIS ; STAIR ENCLOSURES

ABBREVIATIONS

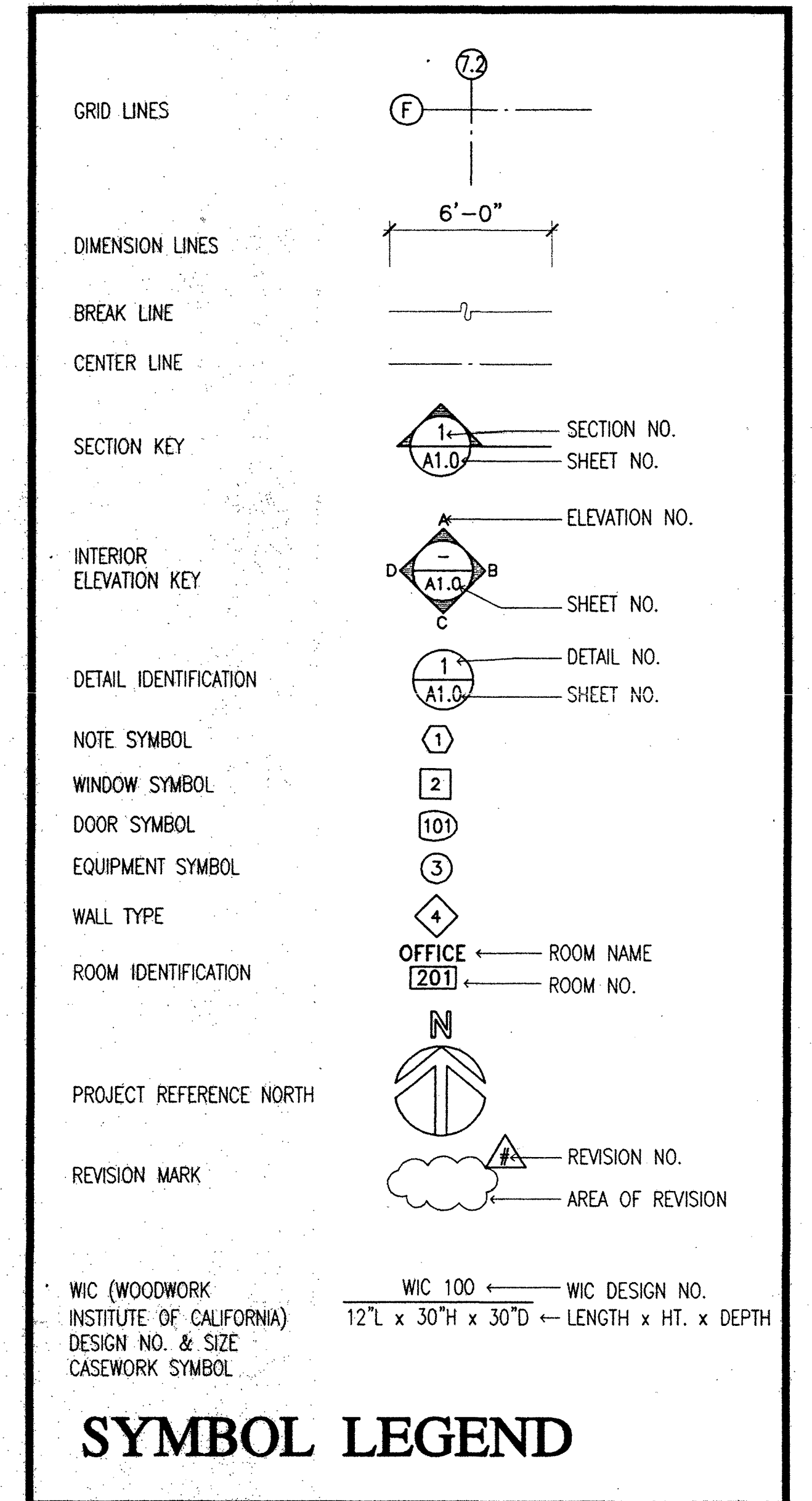
ABV ABOVE FINISHED FLOOR	MB MACHINE BOLT
AFF AFF	MANHOLE
ADJ ADJUTABLE / ADJACENT	MFR MANUFACTURE (R)
A/C AIR CONDITIONING	MAT MATERIAL (S)
ALT ALTERNATE	MAX MAXIMUM
ALUM ALUMINUM	MECH MECHANIC (AL)
AB ANCHOR BOLT	MED MEDIUM
AND AND	MEM MEMBER
< ANGLE	MIN MINIMUM
ANOD ANODIZED	MNT MOUNT (ED), (ING)
APPROX APPROXIMATE	NAT NATURAL
ARCH ARCHITECT (URAL)	(N) NORTH
ASPH ASPHALT	NOT IN CONTRACT
AC ASPHALT CONCRETE	NIC NOMINAL
AT AUTOMATIC	NOT TO SCALE
BN BEAM	# NUMBER
BLK/G BLOCKING BOARD	OC ON CENTER (S)
BD BOARD	OPENING
BT BOTTOM	OFF OFFICE
BN BOUNDARY NAILING	OPP OPPOSITE
BLDG BUILDING	O/ OVER
BUR BUILT UP ROOFING	PR PAIR
CAB CABINET	PNL PANEL
CPT CARPET (ED)	PRG PARKING
CLG CEILING	PTN PARTITION
CEM CEMENT	PVMT PAVEMENT
CE CENTERLINE	PERF PERFORATE (D)
CER CERAMIC	PERIM PERIMETER
CR CURB	PLAS PLASTIC LAMINATE
COL COLUMN	PL PLATE
CONC CONCRETE	PLY PLYWOOD
CMU CONCRETE MASONRY UNIT	POC POINT OF CONNECTION
CONN CONNECTION	PVC POLYVINYL CHLORIDE
CONST CONSTRUCTION	PCF POUNDS PER CUBIC FOOT
CONT CONTINUOUS/CONTINUE	PSF POUNDS PER SQUARE FOOT
CTSK COUNTER SINK	DEM DETAIL / DEMOLITION
DEM DETAIL / DEMOLITION	RAD RADIUS
DET DETAIL	REF REFERENCE
DIAG DIAGONAL	REFR REFRIGERATOR
DIA DIAMETER	REG REGISTER
DIM DIMENSION	REIN REINFORCED
DV DIVISION	REIN REINFORCED
DR DOOR	RESIL RESILIENT
DRBL DOUBLE	RET RETAINING
DN DOWN	R/A RETURN AIR
DWG DRAWING	REV REVISION(S) / REVISED
DF DRINKING FOUNTAIN/DOUGLAS FIR	RD RIGHT HAND
EA EACH	RD ROOF DRAIN
E EAST	RFG ROOFING
ELEC ELECTRIC (AL)	RM ROOM
ELEV ELEVATOR / ELEVATION	RO ROUGH OPENING
EMER EMERGENCY	RHMS ROUND HEAD MACHINE SCREW
ENCL ENCLOSE (URE)	RHS ROUND HEAD WOOD SCREW
EQU EQUIPMENT	SCH SCHEDULE
EST ESTIMATE	SHT SHEET
EXCA EXCAVATE	SMS SHEET METAL SCREW
EXH EXHAUST	SHWR SHOWER
EX (S) EXISTING	SIM SIMILAR
EXP EXPANSION	SC SOLID CORE
EJ EXPANSION JOINT	SC SOUTH
FOC FACE OF CONCRETE	SPK SPEAKER
FOF FACE OF FINISH	SPEC SPECIFICATION (S)
FOM FACE OF MASONRY	SQ SQUARE
FOS FACE OF STUD	SS STAINLESS STEEL
FN FIELD NAILING	STD STANDARD
FIN FINISH (ED)	STL STEEL
FIN FLR FINISH FLOOR	STOR STORAGE
FG FINISH GRADE	STR STRUCTURE / STRUCTURAL
FIXT FIXTURE	SUSP SUSPENDED
FLASH FLASHING	SYM SYMMETRY / SYMMETRICAL
FHMS FLATHEAD MACHINE SCREW	SYST SYSTEM
FHWS FLATHEAD WOOD SCREW	TEL TELEPHONE
FLR FLOOR (ING)	TV TELEVISION
FLU FLUORESCENT	THK THICK (NESS)
FOF FOOT OR FEET	TOP TOP AND BOTTOM
FTG FOOTING	TS TOP OF STEEL
FND FOUNDATION	TW TOP OF WALL
FURR FURRING	TREAD TREAD
GA GAGE / GAUGE	TS TUBULAR STEEL
GALV GALVANIZED	TYP TYPICAL
GND GROUND	UON UNLESS OTHERWISE NOTED
GYP GYPSUM	VERT VERTICAL
HWWR HARDWARE	VERT VERTICAL GRAIN
HDR HEAD	VT VINYL COMPOSITION TILE
HTG HEATING	WC WAINSCOT
HTG HEATING VENTILATING & AIR CONDITIONING	WC WATER CLOSET
HVAC HEATING	WH WATER HEATER
HT HEIGHT	WP WATERPROOF (ING)
HC HOLLOW CORE / HANDICAPPED	WR WATER RESISTANT
HM HOLLOW METAL	WT WEIGHT
HOR HORIZONTAL	W/W WEST / WOMEN / WIDE
ID INSIDE DIAMETER	W/W WINDOW
INSUL INSULATION	W/W WITHOUT
INT INTERIOR	W/O W/O
JAN JANITOR	WD WOOD
JST JOIST	
L LENGTH/LONG	
LAB LABORATORY	
LAM LAMINATE (D)	
LAV LAVATORY	
LB POUND	
LF LINEAR FEET	
LT LIGHT	
LVR LOUVER	

HAZARDOUS MATERIALS LEGEND

CONDITION	INVENTORY AMOUNT	CODE EXEMPT AMOUNT PER CONTROL AREA	STORAGE PLAN FOR BUILDING 'D'
OXIDIZER 3	20,2507 Lb.	10 Lb. + 10 Lb. IN APPROVED CABINET	LIMIT AMOUNT TO LESS THAN 10 Lb. PER CONTROL AREA.
OXIDIZER 4	1,500 Lb.	NONE ALLOWED IN UNSPRINKLERED BUILDING	NONE.
UNSTABLE REACTIVE 3	45,9712 Lb.	5 Lb. + 5 Lb. IN APPROVED CABINET	LIMIT TOTAL AMOUNT TO 40 Lb. (10 Lb. IN EACH CONTROL AREA WITH 5 Lb. IN APPROVED CABINET).
HIGHLY TOXIC	14,8721 Lb.	1 Lb. + 1 Lb. IN APPROVED CABINET	LIMIT TOTAL AMOUNT TO 8 Lb. (2 Lb. IN EACH CONTROL AREA WITH 1 Lb. IN APPROVED CABINET)

- NOTES:**
- "HAZARDOUS MATERIALS INVENTORY ANALYSIS" PREPARED BY ERIKSON-RATTAN ASSOCIATES INC. DATED 16 MAY, 1997 & REVISED 4 JUNE, 1997.
 - THE AMOUNTS OF HAZARDOUS MATERIALS NOT NOTED ABOVE ARE LESS THAN THE EXEMPT AMOUNTS ALLOWED PER CONTROL AREA.
 - ALL INCOMPATIBLE MATERIALS WILL BE SEPARATED IN ACCORDANCE WITH THE UNIFORM FIRE CODE SECTIONS 79 AND 80.
 - THE OWNER, LONG BEACH CITY COLLEGE, SHALL PROVIDE AND INSTALL APPROVED HAZARDOUS MATERIALS STORAGE CABINETS AS REQUIRED TO CARRY OUT THE ABOVE STORAGE PLAN IN ACCORDANCE WITH REFERENCED AND OTHER APPLICABLE CODES. MAXIMUM THREE (3) CABINETS PER ROOM, MINIMUM TEN FEET (10') FROM ANY EXIT FROM THE ROOM.
 - A MAXIMUM OF 10 GALLONS OF HAZARDOUS MATERIALS MAY BE DISPENSED OR USED AT ANY ONE TIME IN SEPARATE CONTROL AREAS.

EXTRACTED FROM CBC TABLES 3-D & 3-E / UBC TABLE 303-5-A & 303-5-B



KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA SANTA BARBARA, CA 93101
805/463-1728

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

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

All show, design arrangements and plans indicated or represented by this drawing are shown for use for the project of design. Neither the architect, nor the engineer, nor the contractor, nor the contractor's subcontractors, nor any other person, firm or corporation for any purpose whatsoever without the written permission of Kruger-Bensen-Ziemer.

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

AS-BUILT

NO.	DESCRIPTION	DATE	BY

CODE DATA ABBREVIATIONS SYMBOL LEGEND

DRAWN	MB
CHECKED	FLB
DATE	12/10/97
JOB NO.	93-42
SHEET TITLE	
SHEET	
OF	

T1.1

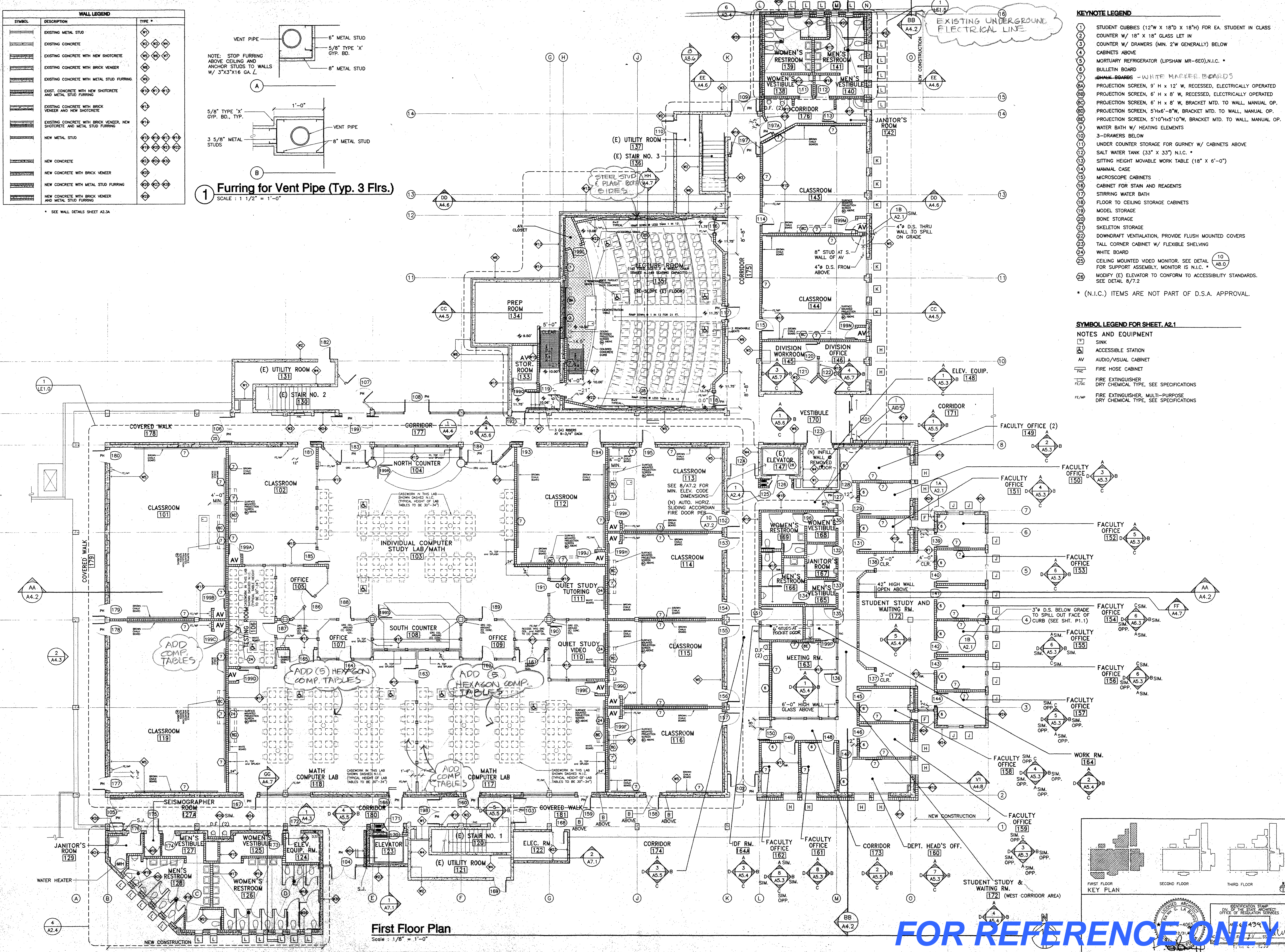
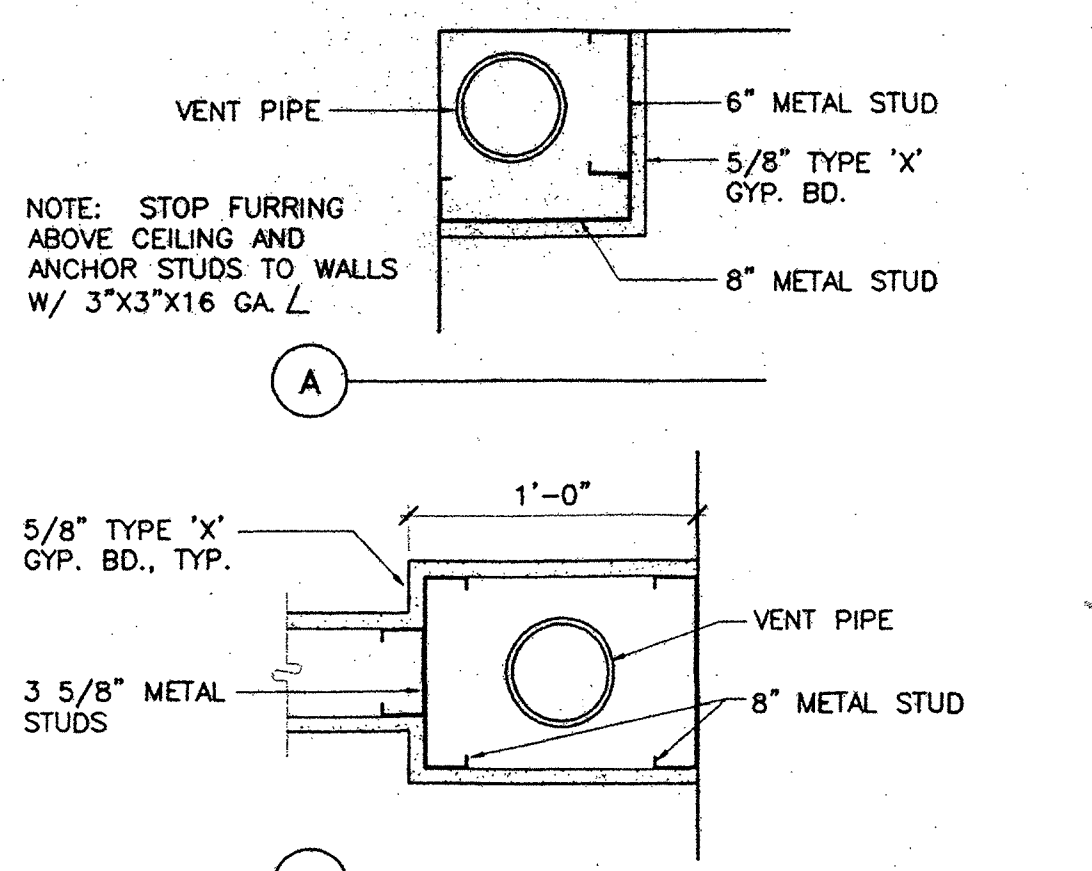
C:\p101\BENCH\034173\1.dwg 12/10/97 11:54 AM

WALL LEGEND		
SYMBOL	DESCRIPTION	TYPE *
[Symbol]	EXISTING METAL STUD	[Symbol]
[Symbol]	EXISTING CONCRETE	[Symbol]
[Symbol]	EXISTING CONCRETE WITH NEW SHOTCRETE	[Symbol]
[Symbol]	EXISTING CONCRETE WITH BRICK VENEER	[Symbol]
[Symbol]	EXISTING CONCRETE WITH METAL STUD FURRING	[Symbol]
[Symbol]	EXIST. CONCRETE WITH NEW SHOTCRETE AND METAL STUD FURRING	[Symbol]
[Symbol]	EXISTING CONCRETE WITH BRICK VENEER AND NEW SHOTCRETE	[Symbol]
[Symbol]	EXISTING CONCRETE WITH BRICK VENEER, NEW SHOTCRETE AND METAL STUD FURRING	[Symbol]
[Symbol]	NEW METAL STUD	[Symbol]
[Symbol]	NEW CONCRETE	[Symbol]
[Symbol]	NEW CONCRETE WITH BRICK VENEER	[Symbol]
[Symbol]	NEW CONCRETE WITH METAL STUD FURRING	[Symbol]
[Symbol]	NEW CONCRETE WITH BRICK VENEER AND METAL STUD FURRING	[Symbol]

* SEE WALL DETAILS SHEET A2.3A

1 Furring for Vent Pipe (Typ. 3 Flrs.)

SCALE: 1/2" = 1'-0"



- KEYNOTE LEGEND**
- 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-6E0), N.I.C. *
 - BULLETIN BOARD
 - SHALK BOARDS - WHITE MADEIR BOARD
 - PROJECTION SCREEN, 9' H x 12' W, RECESSED, ELECTRICALLY OPERATED
 - PROJECTION SCREEN, 6' H x 8' W, RECESSED, ELECTRICALLY OPERATED
 - PROJECTION SCREEN, 6' H x 8' W, BRACKET MTD. TO WALL, MANUAL OP.
 - PROJECTION SCREEN, 5'10"H x 10' W, BRACKET MTD. TO WALL, MANUAL OP.
 - WATER BATH W/ HEATING ELEMENTS
 - 3-DRAWERS BELOW
 - UNDER COUNTER STORAGE FOR GURNEY W/ CABINETS ABOVE
 - SALT WATER TANK (33" x 33") N.I.C. *
 - SITTING HEIGHT MOVABLE WORK TABLE (18" x 6'-0")
 - MANUAL CASE
 - MICROSCOPE CABINETS
 - CABINET FOR STAIN AND REAGENTS
 - STIRRING WATER BATH
 - FLOOR TO CEILING STORAGE CABINETS
 - MODEL STORAGE
 - BONE STORAGE
 - SKELETON STORAGE
 - DOWNDRAFT VENTILATION, PROVIDE FLUSH MOUNTED COVERS
 - TALL CORNER CABINET W/ FLEXIBLE SHELVING
 - WHITE BOARD
 - CEILING MOUNTED VIDEO MONITOR. SEE DETAIL (10) AS.0
 - FOR SUPPORT ASSEMBLY, MONITOR IS N.I.C. *
 - MODIFY (E) ELEVATOR TO CONFORM TO ACCESSIBILITY STANDARDS. SEE DETAIL 8/7.2
- * (N.I.C.) ITEMS ARE NOT PART OF D.S.A. APPROVAL.

- SYMBOL LEGEND FOR SHEET, A2.1**
- NOTES AND EQUIPMENT**
- SINK
 - ACCESSIBLE STATION
 - AUDIO/VISUAL CABINET
 - FIRE HOSE CABINET
 - FIRE EXTINGUISHER
 - DRY CHEMICAL TYPE, SEE SPECIFICATIONS
 - FIRE EXTINGUISHER, MULTI-PURPOSE
 - DRY CHEMICAL TYPE, SEE SPECIFICATIONS

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
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FRANK LA BARGE, A.I.A.
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RICHARD KRSTYIAN 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

AS-BUILT

NO.	DESCRIPTION	DATE	BY
REVISION			

DRAWN	REA / SA / LUL
CHECKED	FLB
DATE	03/26/98
JOB NO.	93-42
SHEET TITLE	FIRST FLOOR PLAN
SHEET	A2.1

FOR REFERENCE ONLY

WALL LEGEND		
SYMBOL	DESCRIPTION	TYPE *
1	EXISTING METAL STUD	#1
2	EXISTING CONCRETE	#2
3	EXISTING CONCRETE WITH NEW SHOTCRETE	#3
4	EXISTING CONCRETE WITH BRICK VENEER	#4
5	EXISTING CONCRETE WITH METAL STUD FURRING	#5
6	EXIST. CONCRETE WITH NEW SHOTCRETE AND METAL STUD FURRING	#6
7	EXISTING CONCRETE WITH BRICK VENEER AND NEW SHOTCRETE	#7
8	EXISTING CONCRETE WITH BRICK VENEER, NEW SHOTCRETE AND METAL STUD FURRING	#8
9	NEW METAL STUD	#9
10	NEW CONCRETE	#10
11	NEW CONCRETE WITH BRICK VENEER	#11
12	NEW CONCRETE WITH METAL STUD FURRING	#12
13	NEW CONCRETE WITH BRICK VENEER AND METAL STUD FURRING	#13

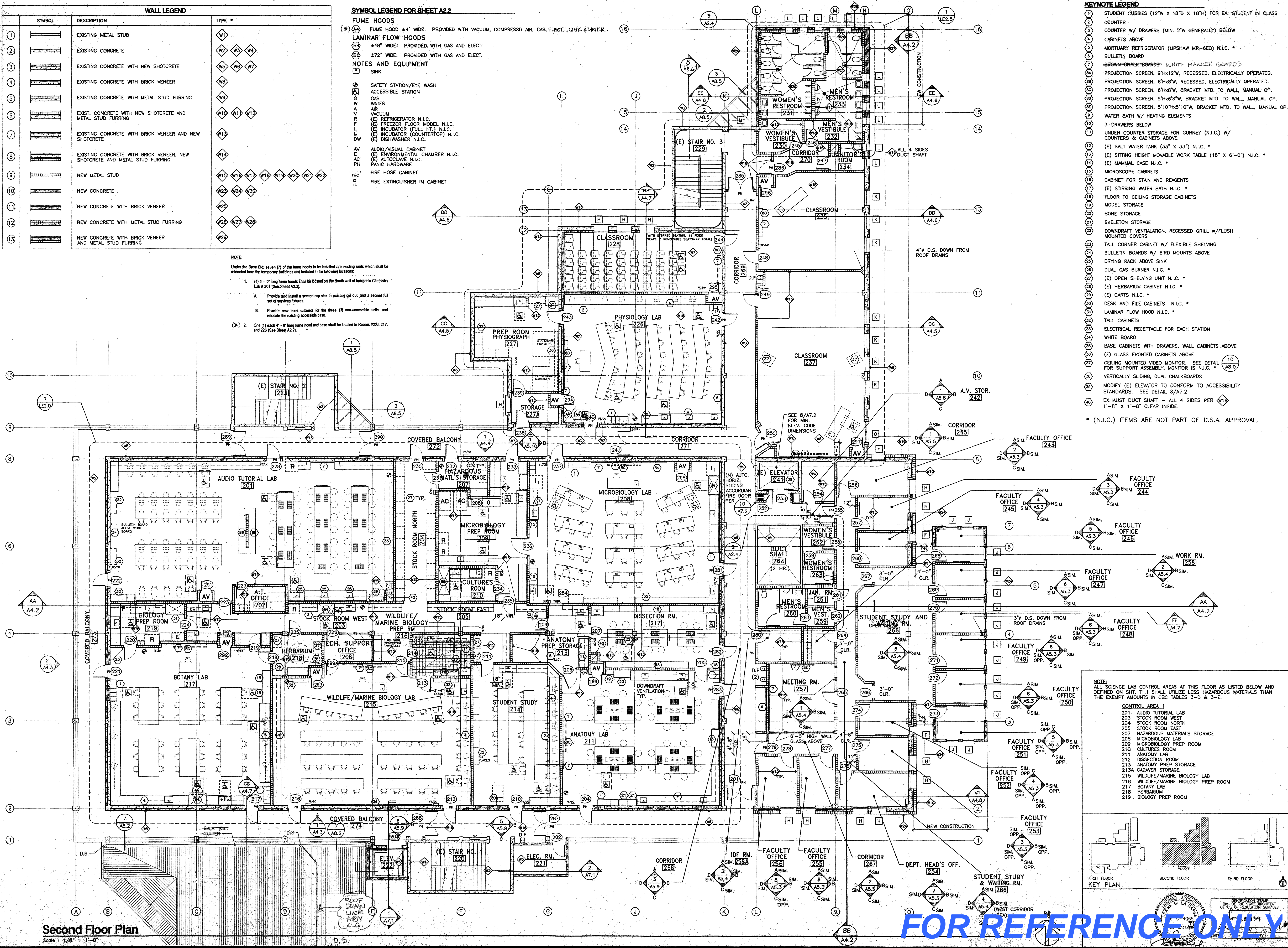
- SYMBOL LEGEND FOR SHEET A2.2**
- FUME HOODS**
- (#) FUME HOOD ±4' WIDE: PROVIDED WITH VACUUM, COMPRESSED AIR, GAS, ELECT., SINK & WATER.
- LAMINAR FLOW HOODS**
- (#) ±48" WIDE: PROVIDED WITH GAS AND ELECT.
 - (#) ±72" WIDE: PROVIDED WITH GAS AND ELECT.
- NOTES AND EQUIPMENT**
- (#) SINK
 - (#) SAFETY STATION/EYE WASH
 - (#) ACCESSIBLE STATION
 - (#) GAS
 - (#) WATER
 - (#) AIR
 - (#) VACUUM
 - (#) REFRIGERATOR N.I.C.
 - (#) FREEZER FLOOR MODEL N.I.C.
 - (#) INCUBATOR (FULL HT.) N.I.C.
 - (#) INCUBATOR (COUNTERTOP) N.I.C.
 - (#) DISHWASHER N.I.C.
 - (#) AUDIO VISUAL CABINET
 - (#) ENVIRONMENTAL CHAMBER N.I.C.
 - (#) AUTOCLAVE N.I.C.
 - (#) PANIC HARDWARE
 - (#) FIRE HOSE CABINET
 - (#) FIRE EXTINGUISHER IN CABINET

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:

- (4) 5'-0" long fume hoods shall be located on the south wall of Inorganic Chemistry Lab #301 (See Sheet A2.3).
- Provide and install a second up sink in existing cut out, and a second full set of services fixtures.
- 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 226 (See Sheet A2.2).

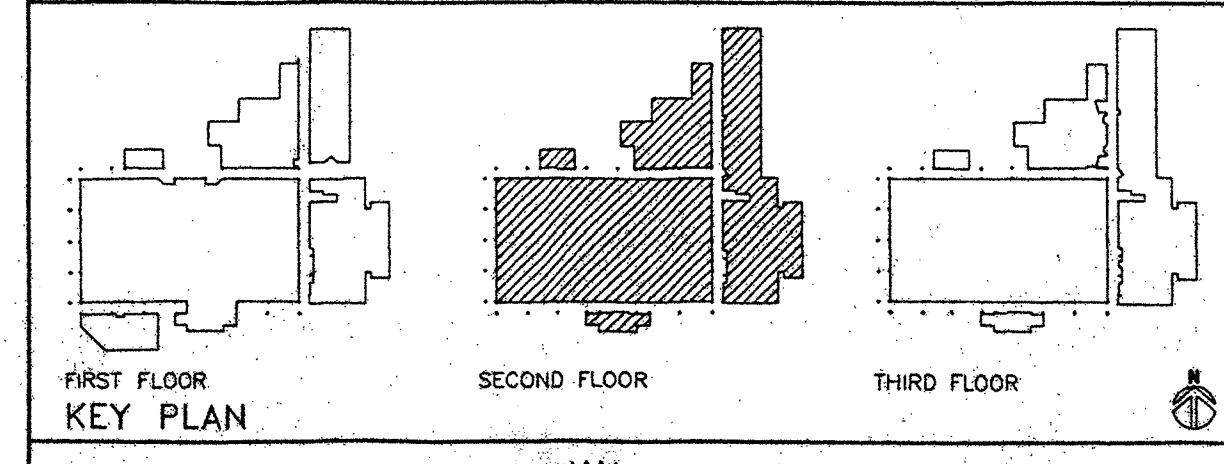


- KEYNOTE LEGEND**
- (#) STUDENT CUBBIES (12" W X 18" D X 18" H) FOR EA. STUDENT IN CLASS COUNTER
 - (#) COUNTER W/ DRAWERS (MIN. 2" W GENERALLY) BELOW CABINETS ABOVE
 - (#) MORTUARY REFRIGERATOR (UPSHAW MR-6E) N.I.C. *
 - (#) BULLETIN BOARD
 - (#) BROWN-CHALK-BOARDS- WHITE MARKER BOARDS
 - (#) PROJECTION SCREEN, 9'x12' W, RECESSED, ELECTRICALLY OPERATED.
 - (#) PROJECTION SCREEN, 6'x8' W, RECESSED, ELECTRICALLY OPERATED.
 - (#) PROJECTION SCREEN, 6'x8' W, BRACKET MTD. TO WALL, MANUAL OP.
 - (#) PROJECTION SCREEN, 5'10"x6'8" W, BRACKET MTD. TO WALL, MANUAL OP.
 - (#) PROJECTION SCREEN, 5'10"x6'10" W, BRACKET MTD. TO WALL, MANUAL OP.
 - (#) WATER BATH W/ HEATING ELEMENTS
 - (#) 3-DRAWERS BELOW
 - (#) UNDER COUNTER STORAGE FOR GURNEY (N.I.C.) W/ COUNTERS & CABINETS ABOVE.
 - (#) (E) SALT WATER TANK (33" X 33") N.I.C. *
 - (#) (E) SITTING HEIGHT MOVABLE WORK TABLE (18" X 6'-0") N.I.C. *
 - (#) (E) MANUAL CASE N.I.C. *
 - (#) MICROSCOPE CABINETS
 - (#) CABINET FOR STAIN AND REAGENTS
 - (#) (E) STIRRING WATER BATH N.I.C. *
 - (#) FLOOR TO CEILING STORAGE CABINETS
 - (#) MODEL STORAGE
 - (#) BONE STORAGE
 - (#) SKELETON STORAGE
 - (#) DOWNDRAFT VENTILATION, RECESSED GRILL W/ FLUSH MOUNTED COVERS
 - (#) TALL CORNER CABINET W/ FLEXIBLE SHELVING
 - (#) BULLETIN BOARDS W/ BIRD MOUNTS ABOVE
 - (#) DRYING RACK ABOVE SINK
 - (#) DUAL GAS BURNER N.I.C. *
 - (#) (E) OPEN SHELVING UNIT N.I.C. *
 - (#) (E) HERBARIUM CABINET N.I.C. *
 - (#) (E) CARTS N.I.C. *
 - (#) DESK AND FILE CABINETS N.I.C. *
 - (#) LAMINAR FLOW HOOD N.I.C. *
 - (#) TALL CABINETS
 - (#) ELECTRICAL RECEPTACLE FOR EACH STATION
 - (#) WHITE BOARD
 - (#) BASE CABINETS WITH DRAWERS, WALL CABINETS ABOVE
 - (#) (E) GLASS FRONTED CABINETS ABOVE
 - (#) CEILING MOUNTED VIDEO MONITOR. SEE DETAIL (10) AB.0
 - (#) FOR SUPPORT ASSEMBLY, MONITOR IS N.I.C. *
 - (#) VERTICALLY SLIDING, DUAL CHALKBOARDS
 - (#) MODIFY (E) ELEVATOR TO CONFORM TO ACCESSIBILITY STANDARDS. SEE DETAIL 8/7.2
 - (#) EXHAUST DUCT SHAFT - ALL 4 SIDES PER (11) 1'-8" X 1'-8" CLEAR INSIDE.
- * (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 DEFINED ON SHY. T1.1 SHALL UTILIZE LESS HAZARDOUS MATERIALS THAN THE EXEMPT AMOUNTS IN CBC TABLES 3-D & 3-E.

CONTROL AREA	ROOM	DESCRIPTION
1	201	AUDIO TUTORIAL LAB
2	203	STOCK ROOM WEST
3	204	STOCK ROOM NORTH
4	205	STOCK ROOM EAST
5	207	HAZARDOUS MATERIALS STORAGE
6	208	MICROBIOLOGY LAB
7	209	MICROBIOLOGY PREP ROOM
8	210	CULTURES ROOM
9	211	ANATOMY LAB
10	212	DISSECTION ROOM
11	213	ANATOMY PREP STORAGE
12	213A	CADAVER STORAGE
13	215	WILDLIFE/MARINE BIOLOGY LAB
14	216	WILDLIFE/MARINE BIOLOGY PREP ROOM
15	217	BOTANY LAB
16	218	HERBARIUM
17	219	BIOLOGY PREP ROOM



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 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

AS-BUILT

NO.	DESCRIPTION	DATE	BY

DRAWN	REA / SA / LIL
CHECKED	FLB
DATE	03/26/98
JOB NO.	93-42
SHEET TITLE	SECOND FLOOR PLAN
SHEET	A2.2

FOR REFERENCE ONLY

03/26/98 11:23:48

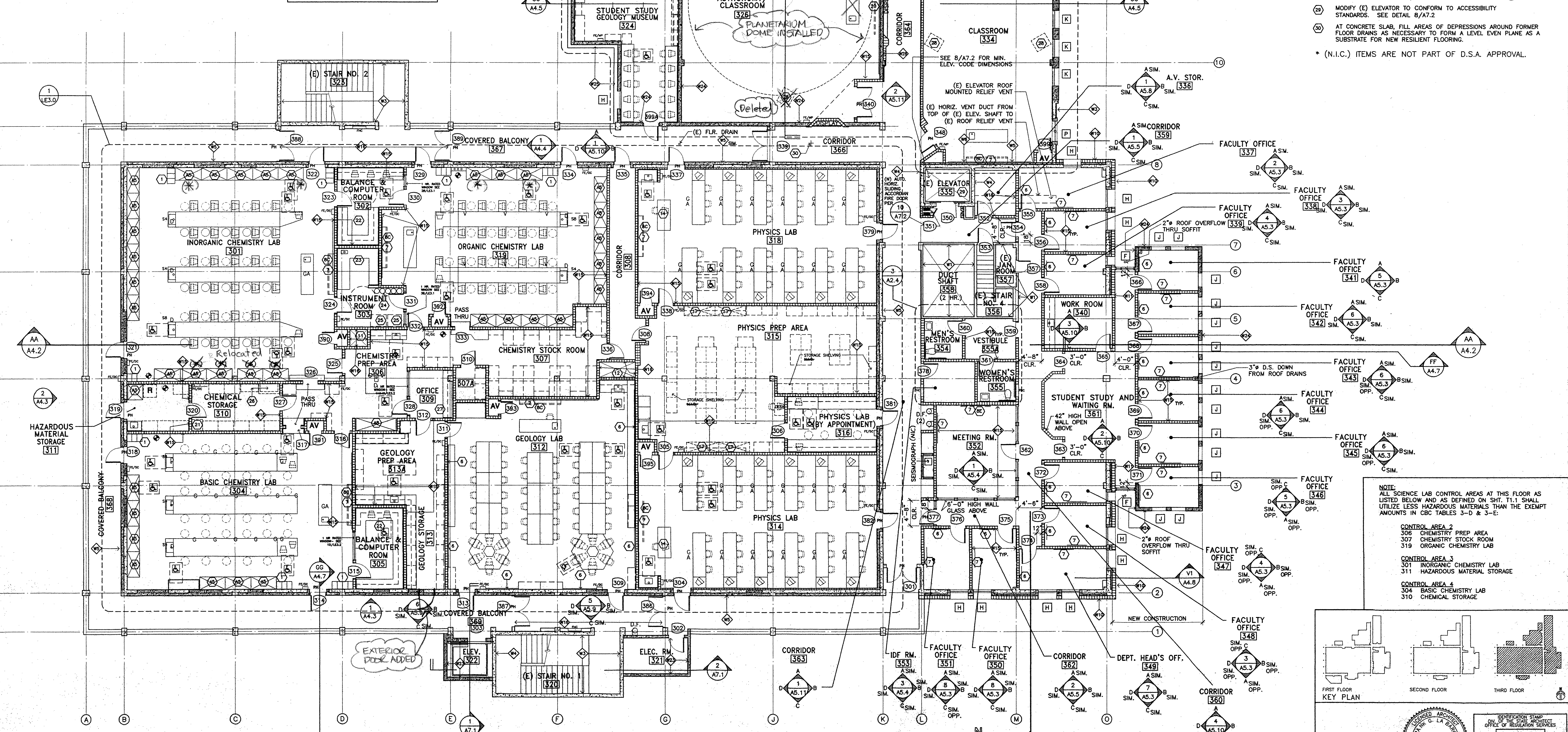
SYMBOL	DESCRIPTION	TYPE *
[Symbol]	EXISTING METAL STUD	[Symbol]
[Symbol]	EXISTING CONCRETE	[Symbol]
[Symbol]	EXISTING CONCRETE WITH NEW SHOTCRETE	[Symbol]
[Symbol]	EXISTING CONCRETE WITH BRICK VENEER	[Symbol]
[Symbol]	EXISTING CONCRETE WITH METAL STUD FURRING	[Symbol]
[Symbol]	EXIST. CONCRETE WITH NEW SHOTCRETE AND NEW SHOTCRETE	[Symbol]
[Symbol]	EXISTING CONCRETE WITH BRICK VENEER AND NEW SHOTCRETE	[Symbol]
[Symbol]	EXISTING CONCRETE WITH BRICK VENEER, NEW SHOTCRETE AND METAL STUD FURRING	[Symbol]
[Symbol]	NEW METAL STUD	[Symbol]
[Symbol]	NEW CONCRETE	[Symbol]
[Symbol]	NEW CONCRETE WITH BRICK VENEER	[Symbol]
[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**
- [Symbol] SINK
 - [Symbol] SAFETY STATION/EYE WASH
 - [Symbol] ACCESSIBLE STATION
 - [Symbol] REFRIGERATOR
 - [Symbol] AV AUDIO/VISUAL CABINET
 - [Symbol] PH PANIC HARDWARE
 - [Symbol] FIRE HOSE CABINET
 - [Symbol] FIRE EXTINGUISHER IN CABINET

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

- 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 fixtures.
 - 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).

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.



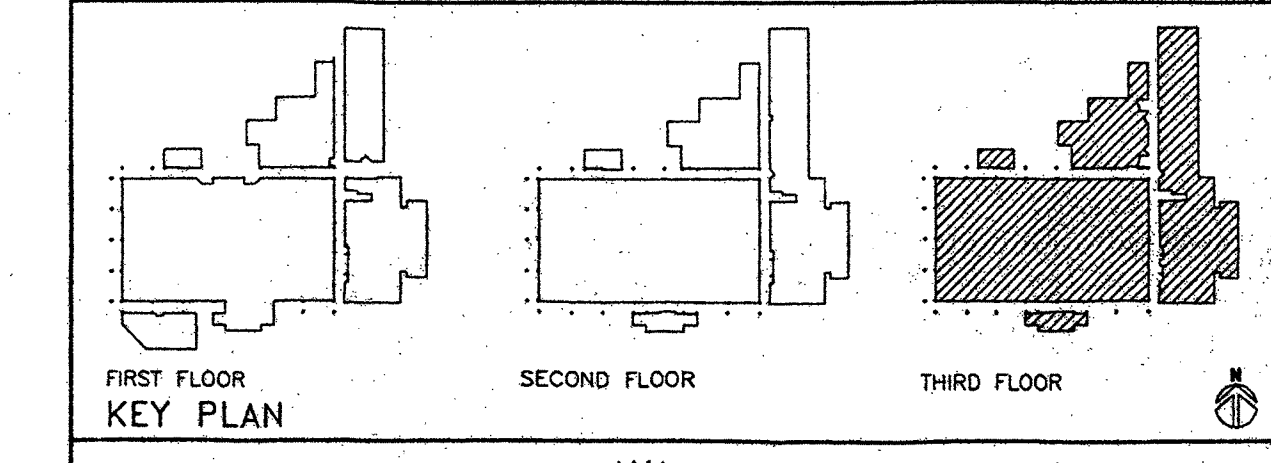
Sheet A2.3 General Notes

- 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-GHAIK-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 #11
- 3'-4" x 3'-4" CLEAR INSIDE
- SUPPLY/RETURN SHAFT FOR 2ND FLOOR AHU-3, WALLS PER #11
- 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.M.R. INSTRUMENT (N.I.C.) *
- VENTED FLAMMABLE STORAGE CABINET (N.I.C.) *
- 18" DEEP COUNTER W/ 14" DEEP SHELVES
- CILING 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 8/A7.2
- 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 #	DESCRIPTION
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



FOR REFERENCE ONLY

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BID PACKAGE C

LONG BEACH CITY COLLEGE
(LIBERAL ARTS CAMPUS)

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

FOR

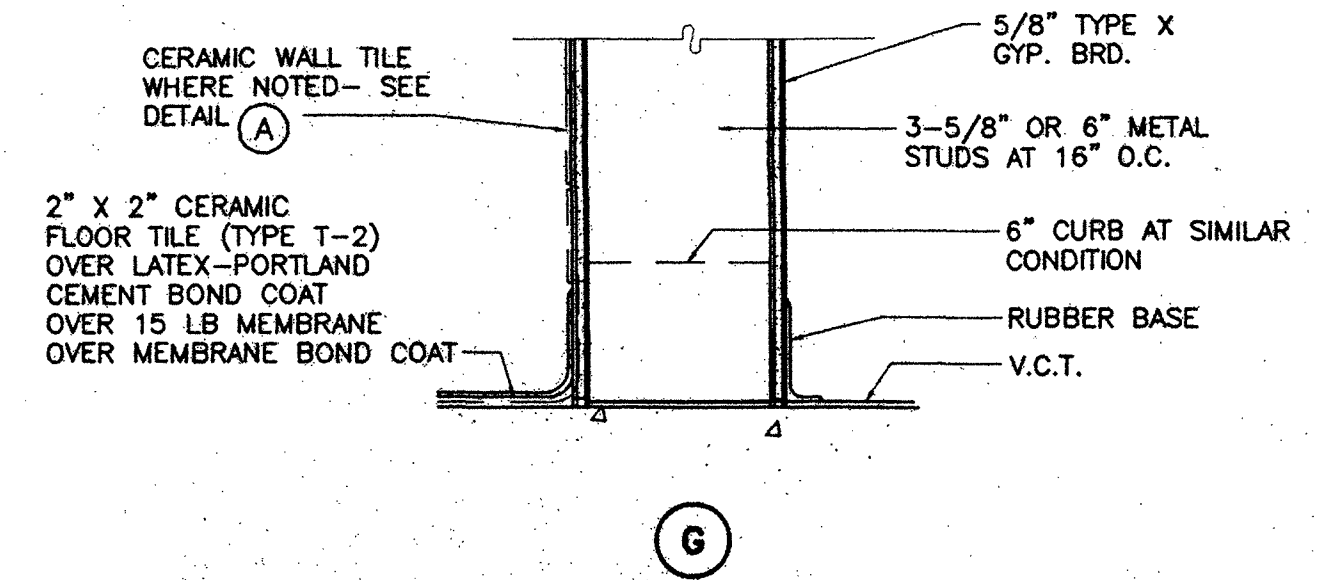
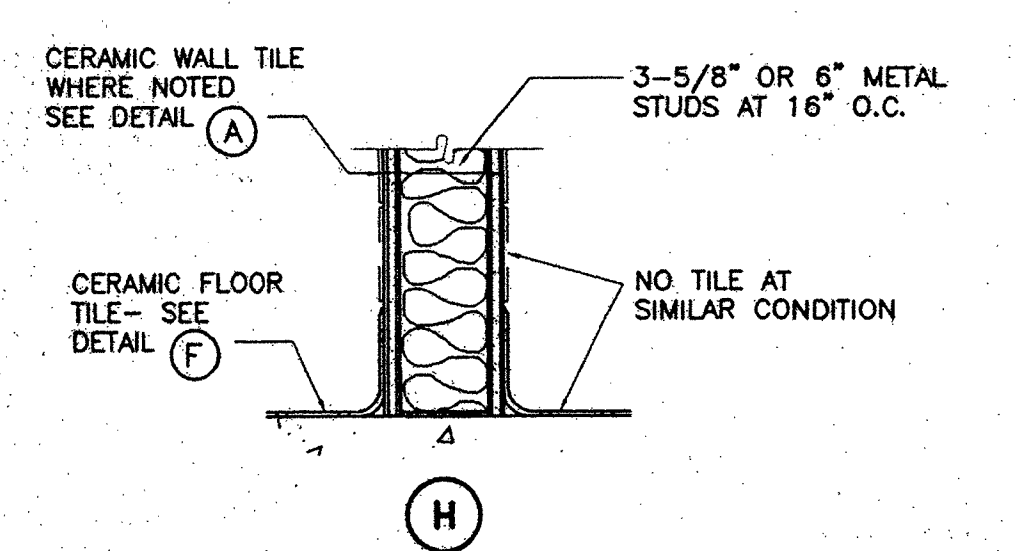
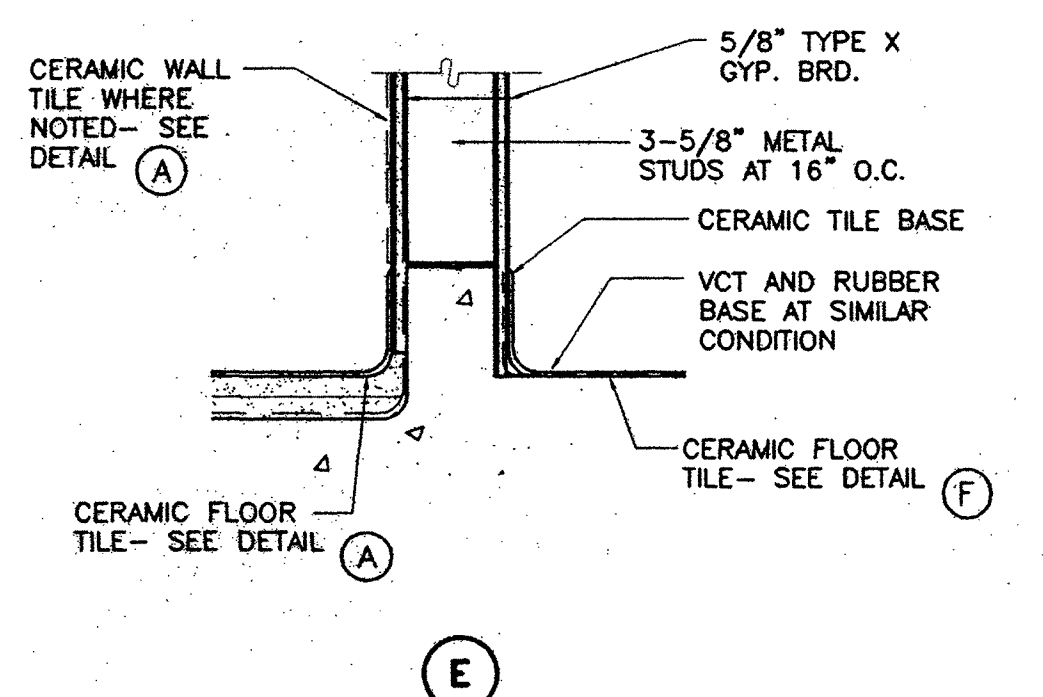
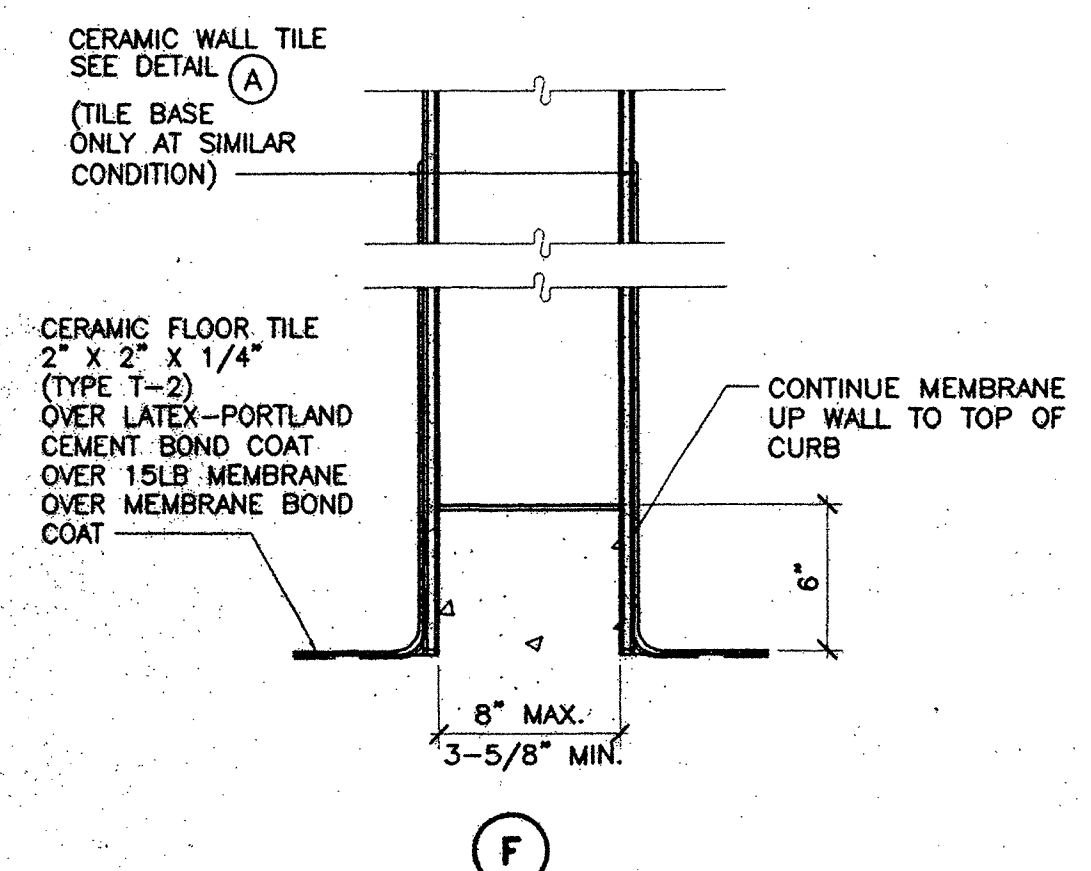
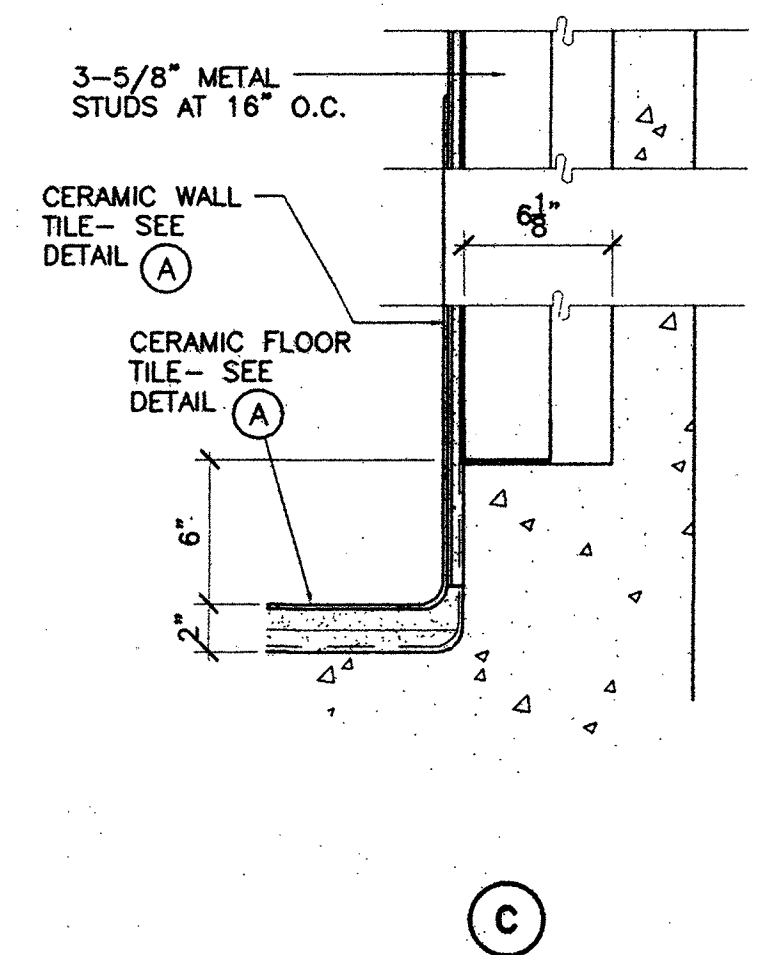
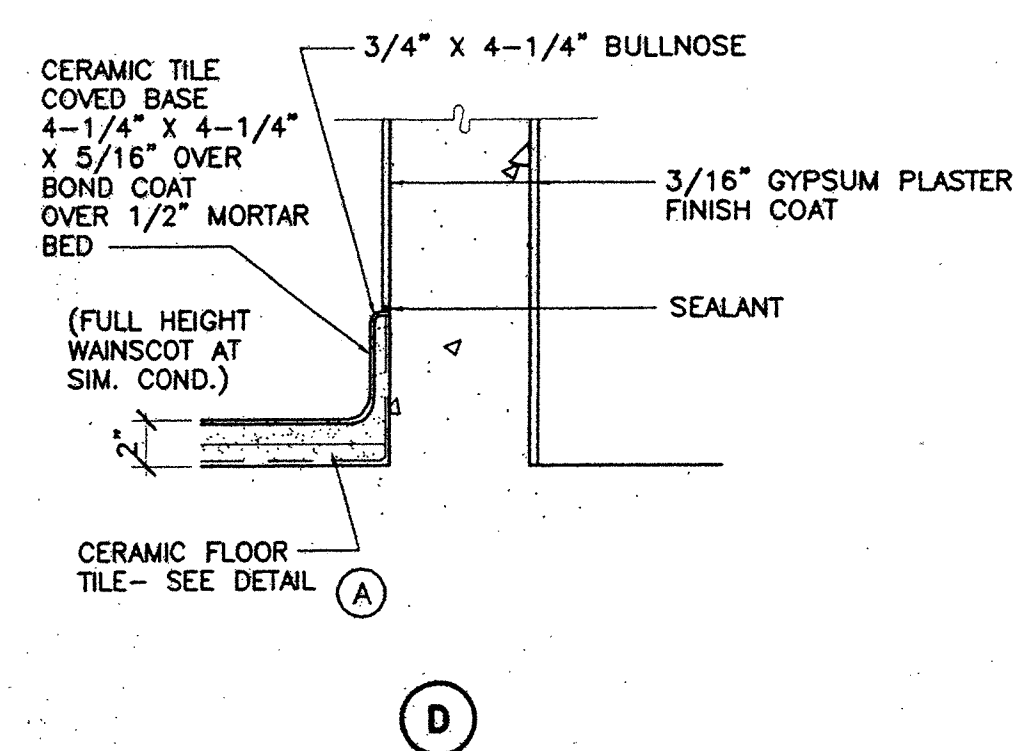
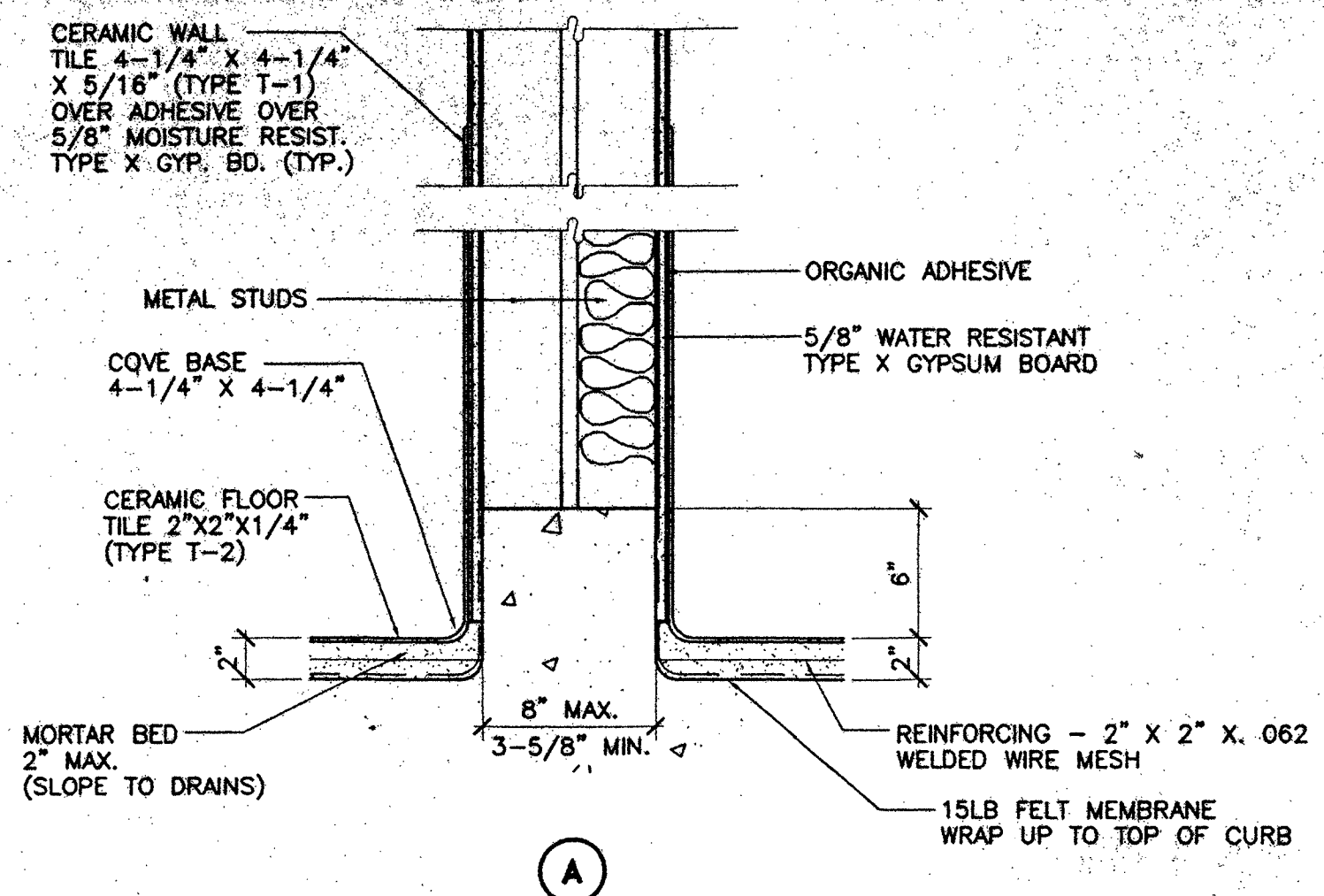
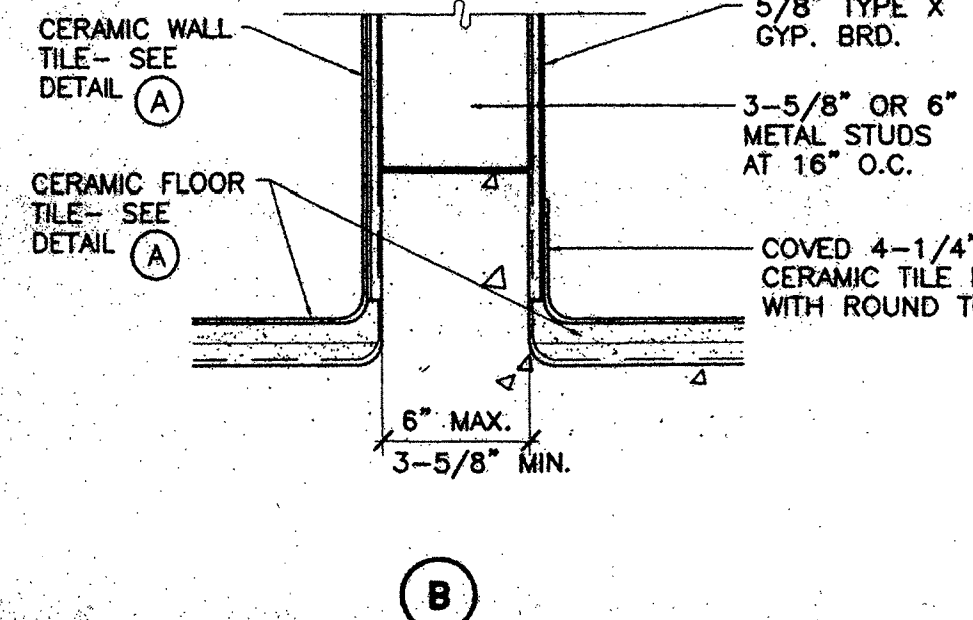
LONG BEACH COMMUNITY COLLEGE DISTRICT
4901 EAST CARSON STREET
LONG BEACH, CA 90808

AS-BUILT

NO.	DESCRIPTION	DATE	BY

DRAWN: REA / SA
CHECKED: FLB
DATE: 03/26/98
JOB NO.: 93-42
SHEET TITLE: THIRD FLOOR PLAN
SHEET: A2.3

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1 CERAMIC TILE DETAILS
SCALE: 1-1/2" = 1'-0"

EXISTING 8" CONCRETE WALL WITH 4" OF NEW SHOTCRETE AND 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT BOTH SIDES.	EXISTING 8" CONCRETE WALL WITH 6" OF NEW SHOTCRETE AND 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT ON SHOTCRETE SIDE.	EXISTING 10" CONCRETE WALL WITH 4" OF NEW SHOTCRETE OR EXISTING 8" CONCRETE WALL WITH 6" OF NEW SHOTCRETE AND EXTERIOR FINISH- 3/16" CEMENT PLASTER FINISH COAT OVER LIQUID BONDING AGENT. INTERIOR FINISH- 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	EXISTING 8" CONCRETE WALL WITH NEW INTERIOR FINISH- 3/16" CEMENT PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	EXISTING 8" CONCRETE WALL WITH NEW EXTERIOR FINISH- 3/16" CEMENT PLASTER FINISH COAT OVER LIQUID BONDING AGENT. INTERIOR FINISH- 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	EXISTING 8" CONCRETE WALL WITH NEW EXTERIOR FINISH- 3/16" CEMENT PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	EXISTING METAL STUD WALL PATCH OR REPLACE EXISTING PLASTER FINISH.	
		2 HR. RATED UL #U900		2 HR. RATED UL #U900		2 HOUR CONSTRUCTION WHERE NOTED - 2 HR PER DET. ON 2/A2.4	
EXISTING 8" CONCRETE WALL WITH 4" OF NEW SHOTCRETE AND 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	EXISTING 8" CONCRETE WALL WITH ANCHORED BRICK VENEER. 4" OF NEW SHOTCRETE WITH 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	EXISTING 8" CONCRETE WALL WITH 4" OF NEW SHOTCRETE NEW 3-5/8" METAL STUDS AT 16" O.C. WITH WOOD PANELING OVER 1/2" GYPSUM BOARD ON SHOTCRETE SIDE AND 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT ON OPPOSITE SIDE.	EXISTING 10" CONCRETE OR EXISTING 8" CONCRETE WITH 6" OF NEW SHOTCRETE WITH NEW INTERIOR FINISH- 5/8" TYPE X GYP. BD. OVER 3/4" FURRING CHANNELS AT 24" O.C. OVER 3-5/8" METAL STUDS AT 16" O.C. ON SHOTCRETE SIDE. 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT ON OPPOSITE SIDE.	EXISTING 10" CONCRETE WITH 4" OF NEW SHOTCRETE OR EXISTING 8" CONCRETE WITH 6" OF NEW SHOTCRETE WITH NEW INTERIOR FINISH- 7/8" EXTERIOR FINISH- 7/8" CEMENT PLASTER OVER METAL LATH OVER BUILDING PAPER OVER 1/2" GYPSUM SHEATHING OVER 3-5/8" METAL STUDS. INTERIOR FINISH- 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	EXISTING 8" CONCRETE WALL WITH NEW 3-5/8" METAL STUDS AT 16" O.C. AND 1/2" VENEER GYPSUM PLASTER OVER 1/2" GYPSUM LATH ON ONE SIDE AND 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT ON OPPOSITE SIDE.	8" EXISTING CONCRETE WALL WITH ANCHORED BRICK VENEER. NEW INTERIOR FINISH- 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	
					2 HR RATED UL #U900		
NEW 8" CONCRETE WALL WITH EXTERIOR FINISH- 3/16" CEMENT PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	3-5/8" METAL STUDS AT 16" O.C. WITH 1/8" VENEER GYPSUM PLASTER OVER 1/2" TYPE X GYPSUM LATH ON BOTH SIDES. INSTALL 3" THICK GLASS FIBER INSULATION BETWEEN STUDS.	METAL STUDS AT 16" O.C. WITH CERAMIC TILE FINISH THIN SET OVER 5/8" TYPE X MOISTURE RESISTANT GYPSUM BOARD ON ONE SIDE. INSTALL 3" THICK GLASS FIBER INSULATION BETWEEN STUDS.	METAL STUDS AT 16" O.C. WITH CERAMIC TILE FINISH THIN SET OVER 5/8" TYPE X MOISTURE RESISTANT GYPSUM BOARD ON ONE SIDE AND 5/8" TYPE X GYP. BOARD ON THE OPPOSITE SIDE. INSTALL 3" THICK GLASS FIBER INSULATION BETWEEN STUDS.	DOUBLE 3-5/8" METAL STUDS AT 16" O.C. WITH 3/4" SPACE BETWEEN. CERAMIC TILE FINISH THIN SET OVER 5/8" MOISTURE RESISTANT TYPE X GYPSUM BOARD BOTH SIDES.	INSTALL 3" THICK GLASS FIBER INSULATION BETWEEN STUDS. 1 HR. RATED UL #U465	TWO LAYERS 5/8" THICK TYPE X GYPSUM WALLBOARD EACH SIDE APPLIED VERTICALLY. INNER LAYER ATTACHED TO 3-5/8" 20 GA. STEEL STUDS WITH 1" LONG TYPE S SCREWS AT 16" O.C. OUTER LAYER ATTACHED WITH 1-5/8" TYPE S SCREWS AT 16" O.C. JOINTS OF OUTER LAYER OFFSET 12" FROM INNER LAYER JOINTS. OUTER LAYER ATTACHED TO 16 GA. FLOOR AND CEILING TRACK WITH 1-5/8" LONG TYPE S SCREWS AT 12" O.C. INSTALL 3" THICK GLASS FIBER INSULATION BETWEEN STUDS. WALL IS FROM FLOOR TO BOTTOM OF FLOOR OR ROOF DECK ABOVE. MIN. STC RATING= 50. APPLY RESILIENT ACOUSTICAL SEALANT AT FLOOR, ROOF, AND WALL INTERSECTIONS.	ONE LAYER 5/8" THICK TYPE X GYPSUM WALLBOARD EACH SIDE APPLIED VERTICALLY WITH JOINTS STAGGERED. ATTACHED TO 3-5/8" 20 GA. STEEL STUDS AND 16 GA. FLOOR AND CEILING TRACK WITH 1" LONG TYPE S SELF TAPPING SCREWS. INSTALL 3" THK. GLASS FIBER INSULATION BETWEEN STUDS. WALL IS FROM FLOOR TO BOTTOM OF FLOOR OR ROOF DECK ABOVE. MINIMUM STC RATING= 50. APPLY RESILIENT ACOUSTICAL SEALANT AT FLOOR, ROOF, AND WALL INTERSECTIONS.
2 HR RATED UL #U900	1 HR RATED UL #U465	1 HR. RATED UL #U465	1 HR. RATED UL #U465	1 HR. RATED UL #U465	2 HR RATED UL #U411	1 HR RATED UL #U465	
NEW 14" CONCRETE WALL WITH EXTERIOR FINISH- 3/16" CEMENT PLASTER FINISH COAT OVER LIQUID BONDING AGENT. INTERIOR FINISH- 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	NEW 8" CONCRETE WALL WITH 1/2" VENEER GYPSUM PLASTER OVER 1/2" GYPSUM LATH OVER BOND COAT OVER 3/8" MORTAR BED. EXTERIOR FINISH- 3/16" CEMENT PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	NEW 8" CONCRETE WALL WITH 1" SOLID CONCRETE-GROUT AND ANCHORED STANDARD FACE BRICK VENEER. DOVETAIL ANCHOR TIES 16 GA. GALV. SHEET METAL MIN. 1" WIDE. SPACED AT MAX. 16" O.C. HORIZONTALLY AND 12" O.C. VERTICALLY (SEE 18/SS.1). JOINT REINFORCEMENT 9 GA. GALV. WIRE CONT. INTERIOR FINISH- 1/8" VENEER GYPSUM PLASTER OVER 1/2" GYPSUM LATH OVER 3-5/8" METAL STUDS AT 16" O.C.	NEW 8" CONCRETE WALL WITH EXTERIOR FINISH- 3-5/8" METAL STUDS AT 16" O.C. CERAMIC TILE FINISH THIN SET OVER 5/8" MOISTURE RESISTANT GYPSUM BOARD OVER METAL STUDS. INTERIOR FINISH- 3/16" CEMENT PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	NEW CONCRETE WALL WITH EXTERIOR FINISH- GROUT AND ANCHORED STANDARD FACE BRICK VENEER DOVETAIL ANCHOR TIES. 16 GA. GALV. SHEET METAL MIN. 1" WIDE SPACED AT MAX. 16" O.C. HORIZONTALLY AND 12" O.C. VERTICALLY. (SEE 18/SS.1) JOINT REINFORCEMENT 9 GA. GALV. WIRE CONT. INTERIOR FINISH- 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	NEW 8" CONCRETE WALL WITH EXTERIOR FINISH- GROUT AND ANCHORED STANDARD FACE BRICK VENEER DOVETAIL ANCHOR TIES. 16 GA. GALV. SHEET METAL MIN. 1" WIDE SPACED AT MAX. 16" O.C. HORIZONTALLY AND 12" O.C. VERTICALLY. (SEE 18/SS.1) JOINT REINFORCEMENT 9 GA. GALV. WIRE CONT. INTERIOR FINISH- 3/16" GYPSUM PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	NEW 8" CONCRETE WALL WITH EXTERIOR FINISH- 3/16" CEMENT PLASTER FINISH COAT OVER LIQUID BONDING AGENT.	
2 HR RATED UL #U900						2 HR RATED UL #U900	

WALL TYPES
NOT TO SCALE

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805/963.1726

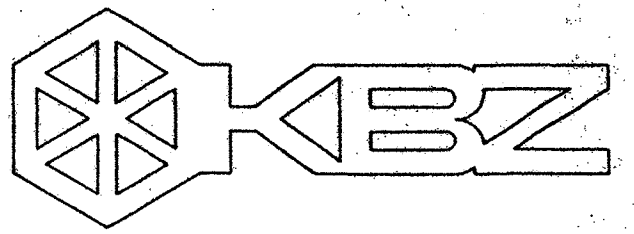
FRANK LA BARGE, A.I.A.
PRINCIPAL IN CHARGE
RICHARD KRISTIAN and JIM TREMAINE, A.I.A.
PROJECT ARCHITECTS

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

AS-BUILT

NO.	DESCRIPTION	DATE	BY

DRAWN: L.J.L.
CHECKED: RK
DATE: 03/26/98
JOB NO.: 93-42
SHEET TITLE: WALL TYPES AND DETAILS
SHEET:
OF:



KRUGER BENSEN ZIEMER ARCHITECTS, INC.
 30 W. ARRELLA
 850/963.1725
 SANTA BARBARA, CA 93101

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

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

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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

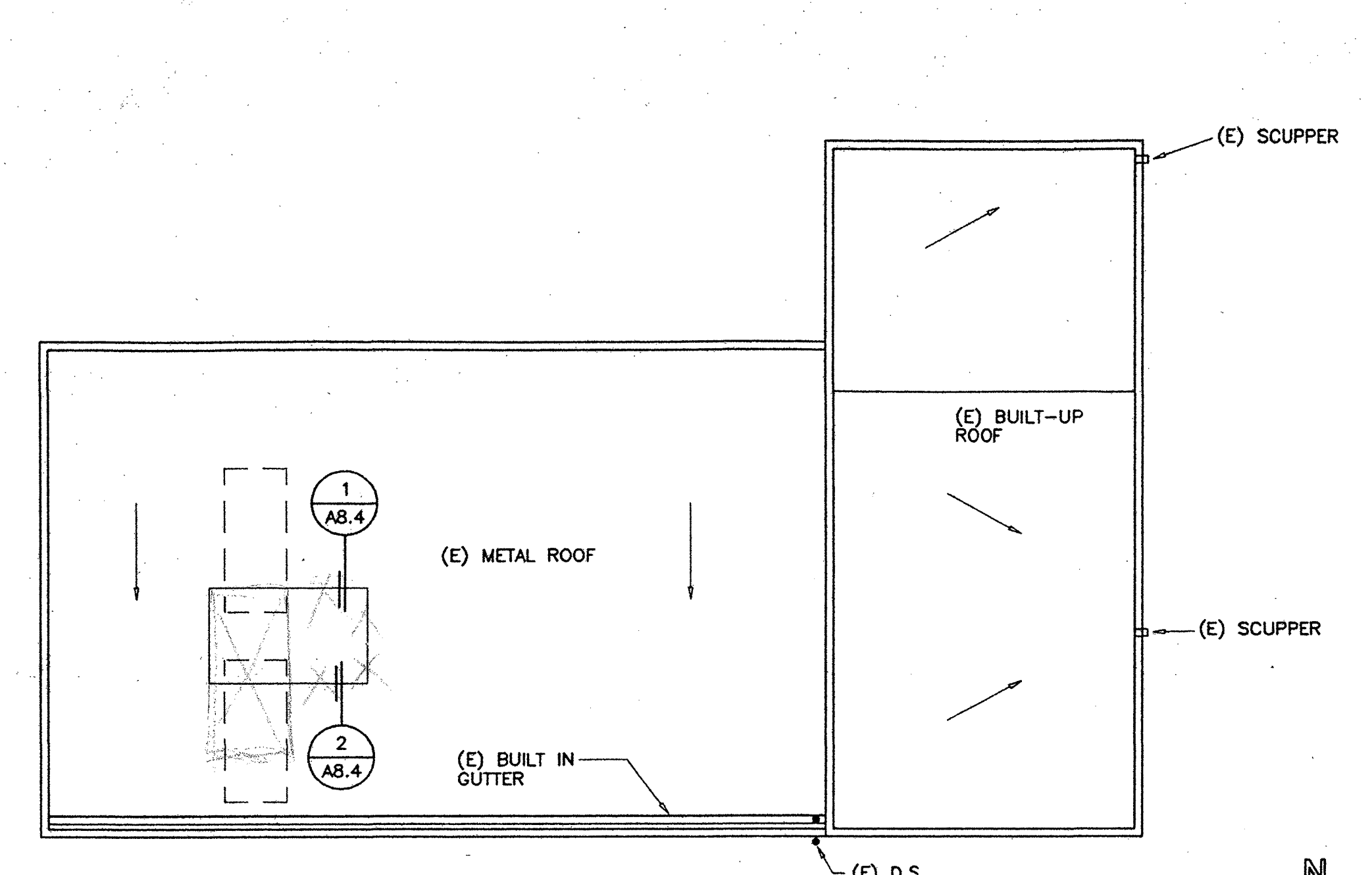
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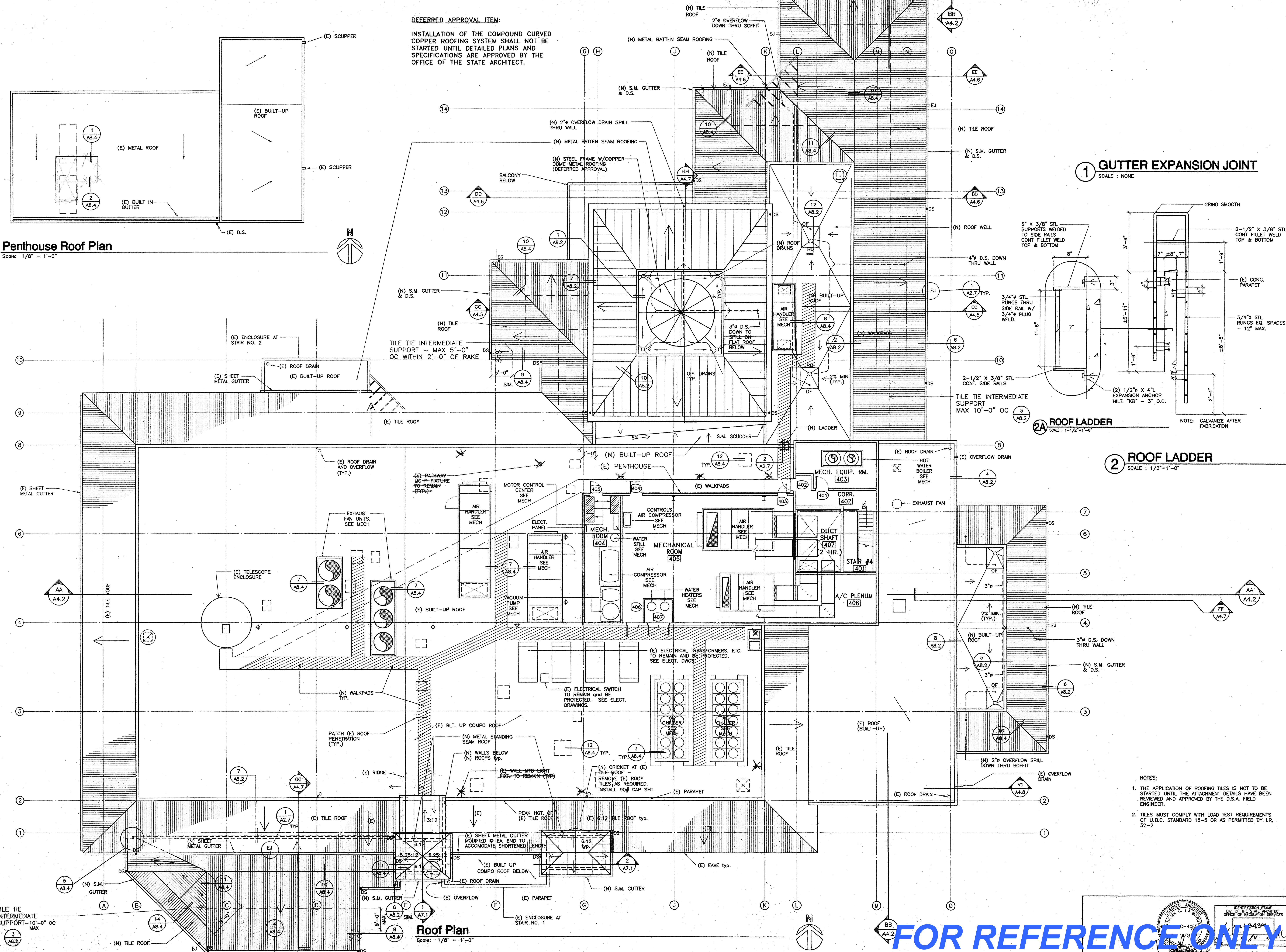
DRAWN	REA / L.J.L.
CHECKED	FLB
DATE	03/26/98
JOB NO.	93-42
SHEET TITLE	ROOF PLAN

SHEET	A2.7
OF	

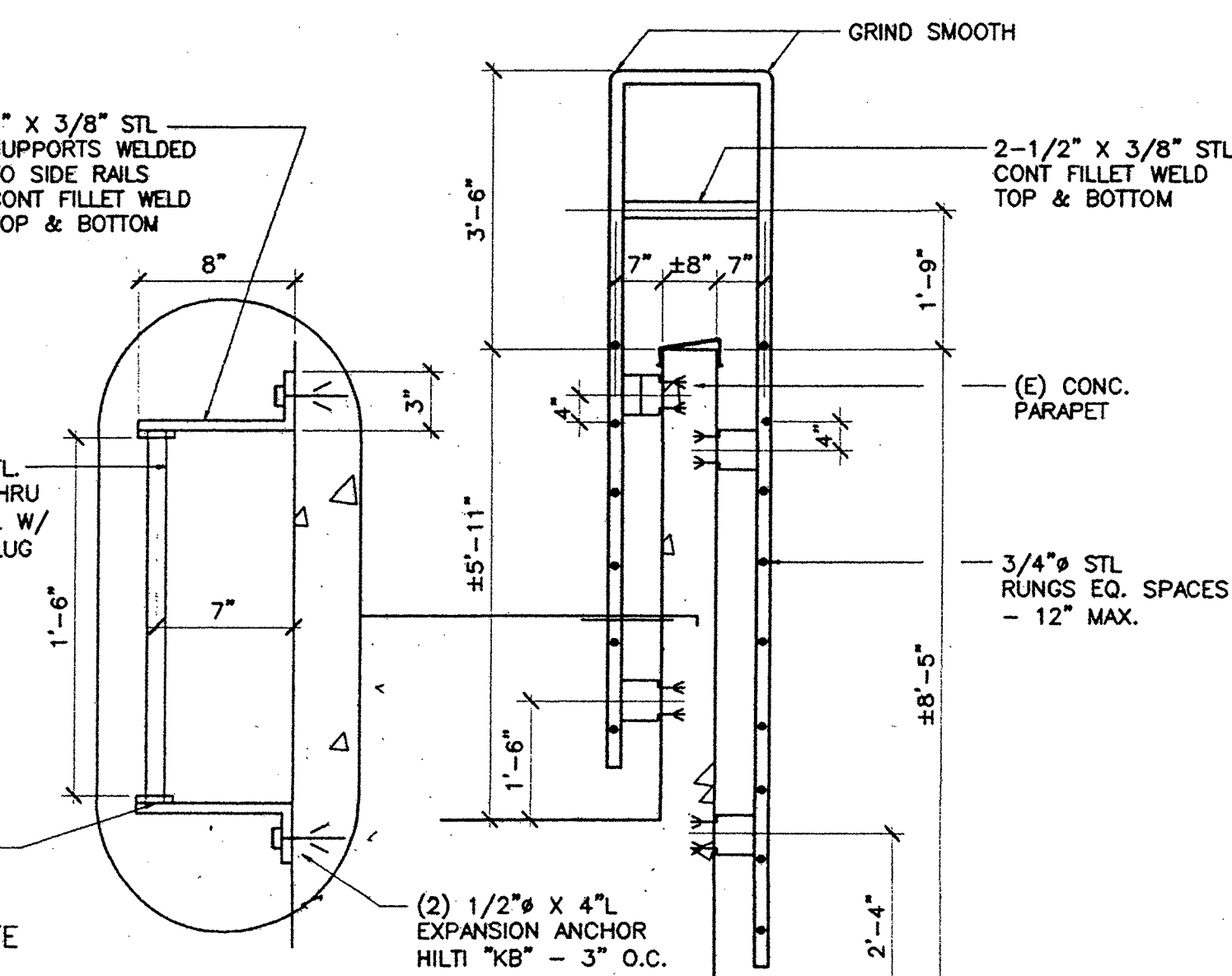
Penthouse Roof Plan
 Scale: 1/8" = 1'-0"



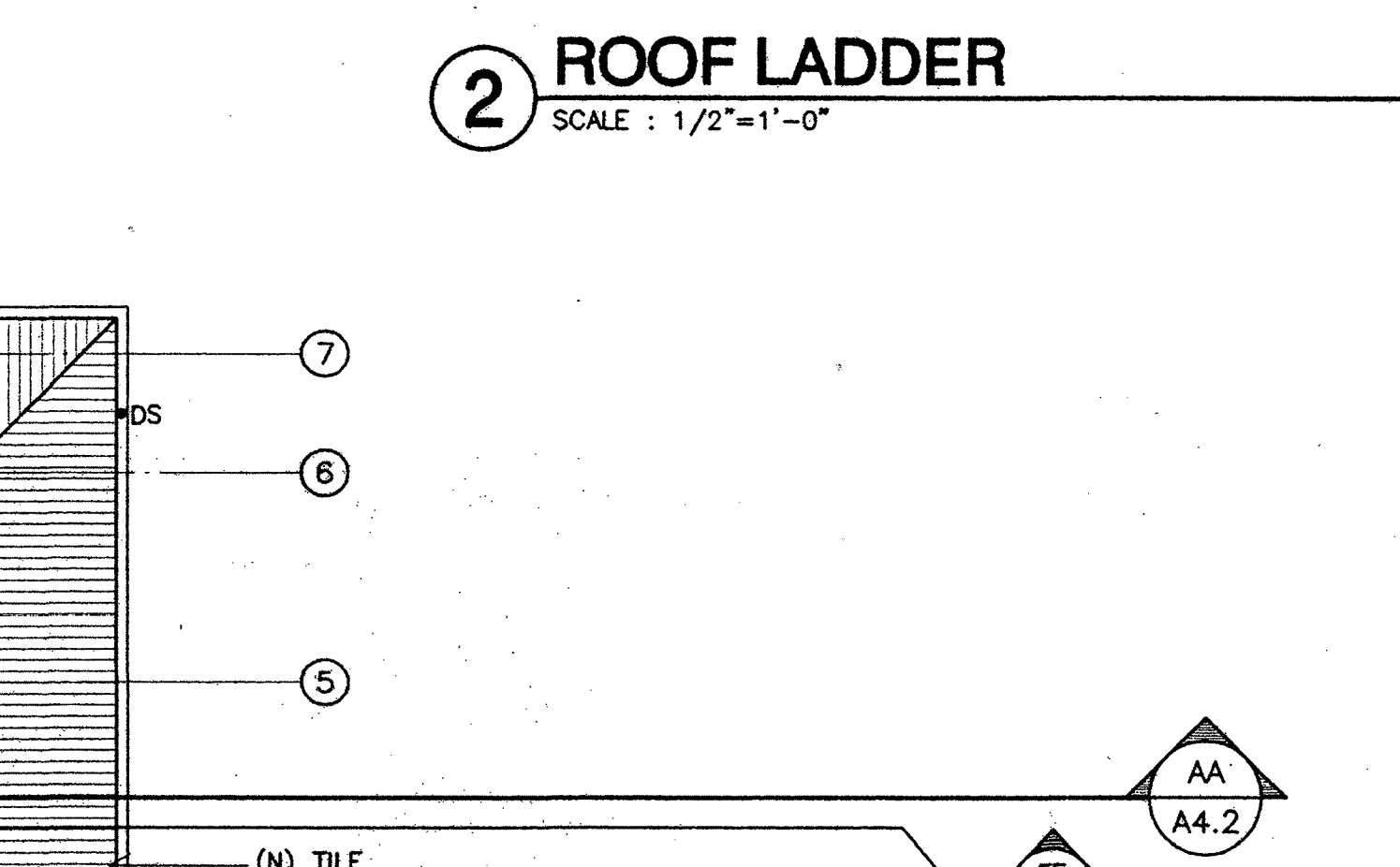
DEFERRED APPROVAL ITEM:
 INSTALLATION OF THE COMPOUND CURVED COPPER ROOFING SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS ARE APPROVED BY THE OFFICE OF THE STATE ARCHITECT.



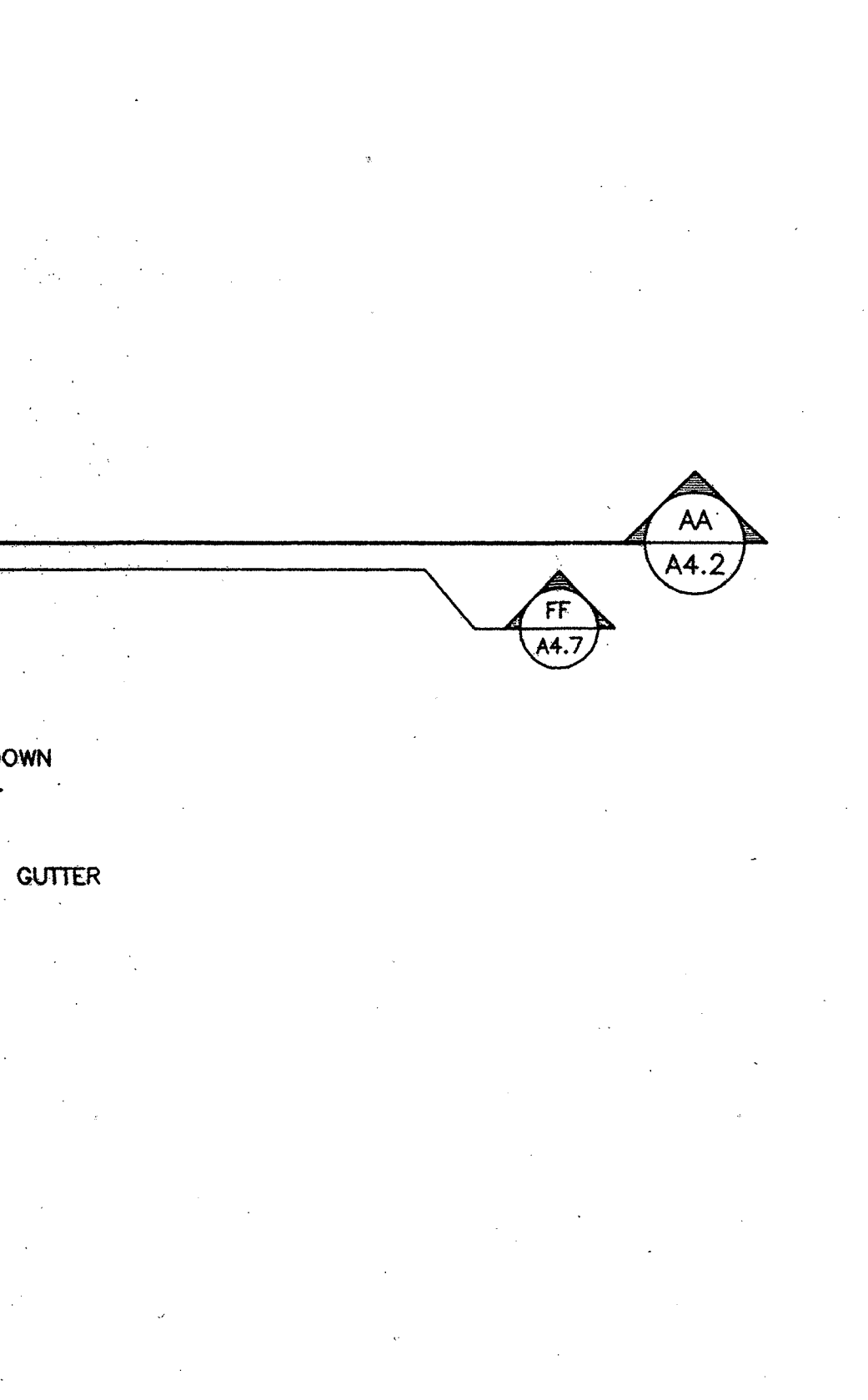
1 GUTTER EXPANSION JOINT
 SCALE: NONE



2A ROOF LADDER
 SCALE: 1-1/2" = 1'-0"



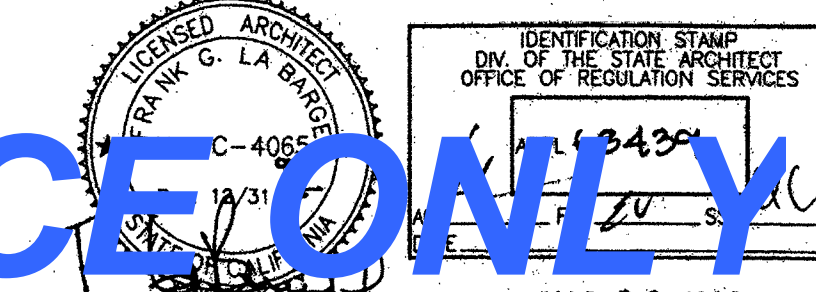
2 ROOF LADDER
 SCALE: 1/2" = 1'-0"



- NOTES:**
1. THE APPLICATION OF ROOFING TILES IS NOT TO BE STARTED UNTIL THE ATTACHMENT DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE D.S.A. FIELD ENGINEER.
 2. TILES MUST COMPLY WITH LOAD TEST REQUIREMENTS OF U.B.C. STANDARD 15-5 OR AS PERMITTED BY I.R. 32-2

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

FOR REFERENCE ONLY



I:\Projects\13300\13300.dwg Plot Date: 03/26/98 10:24:00 AM

FIRST FLOOR ROOM FINISH SCHEDULE

Table with columns: ROOM NO., ROOM NAME, FLOOR, BASE, WAINSCOT, WALLS (North, East, South, West), CEILING, MISC., REMARKS. Lists room finishes for rooms 101-164.

FIRST FLOOR ROOM FINISH SCHEDULE

Table with columns: ROOM NO., ROOM NAME, FLOOR, BASE, WAINSCOT, WALLS (North, East, South, West), CEILING, MISC., REMARKS. Lists room finishes for rooms 164A-181.

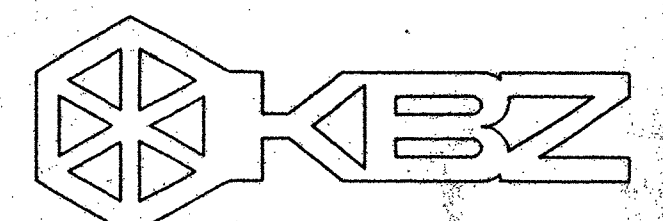
LEGEND OF FINISHES FOR FIRST FLOOR ROOM FINISH SCHEDULE

- Legend items 1 through 50 describing finishes: 1 CONCRETE SLAB ON GRADE, 2 CONCRETE, 3 EXISTING CONCRETE, 4 RESILIENT FLOORING (SHEET), 5 RESILIENT FLOORING (TILE), 6 SEALER, 7 CERAMIC MOSAIC TILE - THICK SET, 8 CERAMIC MOSAIC FLOOR TILE (THIN SET), 9 CERAMIC MOSAIC FLOOR TILE (THICK SET) O/S SHEET WATERPROOFING BONDED, 10 CARPET, 11 EXISTING CONCRETE FILLED METAL PAN STAIR, 12 WOOD-PARQUET-FLOORING-OVER-CONCRETE- CHANGED TO VCT, 13 COLORED CONCRETE (SURFACE APPLIED COLOR) OVER (E) CONCRETE SLAB ON GRADE, 14 COLORED CONCRETE (INTEGRAL COLOR MIX) OVER (E) CONCRETE SLAB ON GRADE, 15 4" HIGH COVERED CERAMIC MOSAIC TILE BASE (THIN SET), 16 INTEGRAL RESILIENT FLOORING (SHEET VINYL) COVERED 4" HIGH, 17 4" HIGH TOP-SET COVERED RUBBER BASE, 18 COVERED CERAMIC MOSAIC TILE BASE (THICKSET), 19 COVERED CEMENT BASE, 20 COVERED (INTEGRAL COLOR) CEMENT BASE, 21 CERAMIC TILE THIN SET OVER MOISTURE RESISTANT GYPSUM BOARD, 22 CERAMIC TILE THICK SET, 23 EXISTING PLASTER, 24 (E) PLASTER OVER (E) CONCRETE; TO BE PATCHED, FILLED AND REPAIRED AS NECESSARY TO PROVIDE A FINISHED GYPSUM PLASTER SURFACE THAT IS A SMOOTH EVEN PLANE. INSTALL (N) GYPSUM PLASTER OVER (N) CONCRETE WHERE (N) CONCRETE IS INSTALLED AND WHERE (E) CONCRETE SURFACES ARE EXPOSED., 25 GYPSUM PLASTER OVER SHOTCRETE OR CONCRETE, 26 GYPSUM PLASTER FINISH COAT OVER (E) CONCRETE, 27 5/8" TH. TYPE 'X' MOISTURE RESISTANT GYPSUM BOARD, 28 WOOD VENEER PANELS (RECONSTITUTED VG PVA VENEER OVER 3/4" TH MDF), 29 5/8" TH. TYPE 'X' GYPSUM BOARD, 30 WOOD LOUVERS OVER FABRIC COVERED SOUND ABSORBING PANELS OVER 5/8" TH TYPE 'X' GYP. BOARD OVER METAL FRAMING, 31 (E) CONCRETE CAPPED CLAY BLOCK RAILING, 32 WOOD PANELING OVER 5/8" TH TYPE 'X' GYPSUM BOARD OVER METAL STUDS, 33 ARCHITECTURAL CONCRETE, 34 EXISTING ARCHITECTURAL CONCRETE, 35 GYP. VENEER PLASTER ON GYP. LATH, 36 SUSPENDED ACOUSTICAL REGULAR EDGE TYPE B TILE CEILING (2'X2'X3/4") IN A METAL SUSPENSION SYSTEM FLAT WHITE. SEE 1 AB.0., 37 2'X2' SUSPENDED T-BAR W/ ACOUST. PNLS. CHANGED TO 2'X2' SUSPENDED ACOUSTICAL TILE CEILING- 12" X 12" TILES WITH ACOUST. PNLS. LINERS. (NON-REFLECTED GLOSS FINISH), 38 EXTERIOR CEMENT PLASTER. SEE 18 AB.0., 39 (E) EXTERIOR CEMENT PLASTER, 40 EXTERIOR CEMENT PLASTER SOFFIT ON METAL FRAMING PER 9 AB.0., 41 SUSPENDED GYPSUM PLASTER CEILING ON METAL LATH, 42 VENEER PLASTER CEILING SYSTEM, 43 5/8" TH. TYPE 'X' GYPSUM BOARD CEILING ON A METAL SUSPENSION SYSTEM. SEE 8 AB.0., 44 EXPOSED STRUCTURE, 45 EXISTING EXPOSED STRUCTURE, 46 SUSPENDED WOOD-LOUVER-CEILING-OVER-FABRIC-COVERED-SOUND-ABSORBING-PANELS. CHANGED TO GLUE UP ACOUSTICAL TILE

NOTES FOR FIRST FLOOR ROOM FINISH SCHEDULE

- Notes 1 through 6: 1 FIXED GLASS FROM +3'-6" TO +7'-0" WHERE SHOWN, 2 FIXED GLASS FROM +6'-0" TO +8'-0" WHERE SHOWN, 3 SEE FLOOR PLAN & EXTERIOR & INTERIOR ELEVATIONS, 4 CHAIR RAIL ON WALLS. SEE INTERIOR ELEVATIONS, 5 STEEL TROWEL FINISH, 6 STEPPED FLOOR OF LIGHT WEIGHT CONCRETE FILL OVER STEEL FRAMING ATOP (E) CONCRETE SLAB.

FOR REFERENCE ONLY



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

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

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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

AS-BUILT table with columns: NO., DESCRIPTION, DATE, BY.

Project information table: DRAWN REA, CHECKED FLB, DATE 03/26/98, JOB NO. 93-42, SHEET TITLE FIRST FLOOR ROOM FINISH SCHEDULE, SHEET OF

SECOND FLOOR ROOM FINISH SCHEDULE

Table with columns: ROOM NO., ROOM NAME, FLOOR, BASE, WAINSCOT, WALLS (North, East, South, West), CEILING, MISC., REMARKS. Rows include Audio Tutorial Lab, Stock Room West, Stock Room North, Stock Room East, Tech. Support Office, Hazardous Materials Storage, Microbiology Lab, etc.

SECOND FLOOR ROOM FINISH SCHEDULE

Table with columns: ROOM NO., ROOM NAME, FLOOR, BASE, WAINSCOT, WALLS (North, East, South, West), CEILING, MISC., REMARKS. Rows include Duct Shaft, Corridor, Student Study & Waiting, Corridor, Covered Balcony, etc.

LEGEND OF FINISHES FOR SECOND FLOOR ROOM FINISH SCHEDULE

- 1 CONCRETE SLAB ON GRADE
2 EXISTING CONCRETE SLAB ON GRADE
3 CONCRETE
4 EXISTING CONCRETE
5 RESILIENT FLOORING (SHEET)
6 RESILIENT FLOORING (TILE)
7 SEALER
8 CERAMIC MOSAIC TILE - THICK SET
9 CERAMIC MOSAIC TILE (THIN SET)
10 CERAMIC MOSAIC FLOOR TILE (THICK SET) G/ SHEET
11 CERAMIC MOSAIC FLOOR TILE (THIN SET)
12 CARPET
13 EXISTING CONCRETE FILLED METAL PAN STAIR
14 WOOD PARQUET FLOORING OVER CONCRETE
15 COLORED CONCRETE (SURFACE APPLIED COLOR) OVER (E) CONCRETE SLAB ON GRADE
16 COLORED CONCRETE (INTEGRAL COLOR MIX) OVER (E) CONCRETE SLAB ON GRADE
17 4" HIGH COVERED CERAMIC MOSAIC TILE BASE (THIN SET)
18 INTEGRAL RESILIENT FLOORING (SHEET VINYL) COVERED 4" HIGH
19 4" HIGH TOP-SET COVERED RUBBER BASE
20 COVERED CERAMIC MOSAIC TILE BASE (THICKSET)
21 COVERED CEMENT BASE
22 COVERED (INTEGRAL COLOR) CEMENT BASE
23 CERAMIC TILE THIN SET OVER MOISTURE RESISTANT GYPSUM BOARD.
24 CERAMIC TILE THICK SET
25 EXISTING PLASTER
26 (E) PLASTER OVER (E) CONCRETE; TO BE PATCHED, FILLED AND REPAIRED AS NECESSARY TO PROVIDE A FINISHED GYPSUM PLASTER SURFACE THAT IS A SMOOTH EVEN PLANE. INSTALL (N) GYPSUM PLASTER OVER (N) CONCRETE WHERE (N) CONCRETE IS INSTALLED AND WHERE (E) CONCRETE SURFACES ARE EXPOSED.
27 GYPSUM PLASTER OVER SHOTCRETE OR CONCRETE
28 GYPSUM PLASTER FINISH COAT OVER (E) CONCRETE
29 5/8" TH. TYPE 'X' MOISTURE RESISTANT GYPSUM BOARD OVER 5/8" TH. TYPE 'X' GYPSUM BOARD
30 WOOD LOUVERS OVER FABRIC COVERED SOUND ABSORBING PANELS OVER 5/8" TH. TYPE 'X' GYP. BOARD OVER METAL FRAMING
31 (E) CONCRETE CAPPED CLAY BLOCK RAILING
32 SEALER
33 WOOD PANELING OVER 5/8" TH. TYPE 'X' GYPSUM BOARD OVER METAL STUDS
34 ARCHITECTURAL CONCRETE
35 EXISTING ARCHITECTURAL CONCRETE
36 GYP. VENEER PLASTER ON GYP. LATH.
37 SUSPENDED ACoustICAL REGULAR EDGE TYPE B TILE CEILING (2'x2'x3/4") IN A METAL SUSPENSION SYSTEM FLAT WHITE. SEE 1 AB.0
38 3'x2' SUPPOT. BASE W/ ACoust. PANELS CONCEALED GRID SUSPENDED ACoustICAL TILE CEILING - 12" x 12" TILES (WITH ACCESS PANELS WHERE SHOWN ON REFLECTED COUP PLANS)
39 EXTERIOR CEMENT PLASTER. SEE 16 AB.0
40 (E) EXTERIOR CEMENT PLASTER
41 EXTERIOR CEMENT PLASTER SOFFIT ON METAL FRAMING PER 9 AB.0
42 SUSPENDED GYPSUM PLASTER CEILING ON METAL LATH.
43 VENEER PLASTER CEILING SYSTEM
44 5/8" TH. TYPE 'X' GYPSUM BOARD CEILING ON A METAL SUSPENSION SYSTEM. SEE 8 AB.0
45 EXPOSED STRUCTURE
46 EXISTING EXPOSED STRUCTURE
47 SUSPENDED WOOD LOUVER CEILING OVER FABRIC COVERED SOUND ABSORBING PANELS.

NOTES FOR SECOND FLOOR ROOM FINISH SCHEDULE

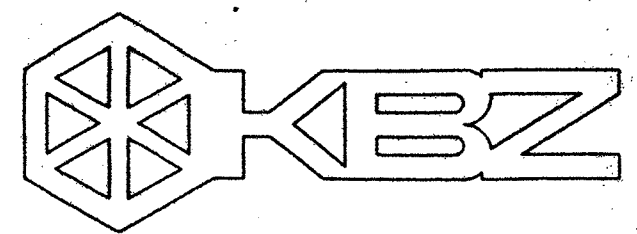
- 1 FIXED GLASS FROM +3'-8" TO +7'-0" WHERE SHOWN
2 FIXED GLASS FROM +6'-0" TO +8'-0" WHERE SHOWN
3 SEE FLOOR PLAN & EXTERIOR & INTERIOR ELEVATIONS
4 CHAIR RAIL ON WALLS. SEE INTERIOR ELEVATIONS
5 STEEL TROWEL FINISH
6 STEPPED FLOOR OF LIGHT WEIGHT CONCRETE FILL OVER STEEL FRAMING ATOP (E) CONCRETE SLAB.

FOR REFERENCE ONLY

Project information including KRUGER BENSEN ZIEMER ARCHITECTS, INC., PROJECT ARCHITECTS, and RICHARD KRISTIAN and JIM TREMAINE, A.I.A.

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AS-BUILT SHEET TITLE SECOND FLOOR ROOM FINISH SCHEDULE. Includes drawing details like DRAWN, CHECKED, DATE, and SHEET NUMBER A3.2.



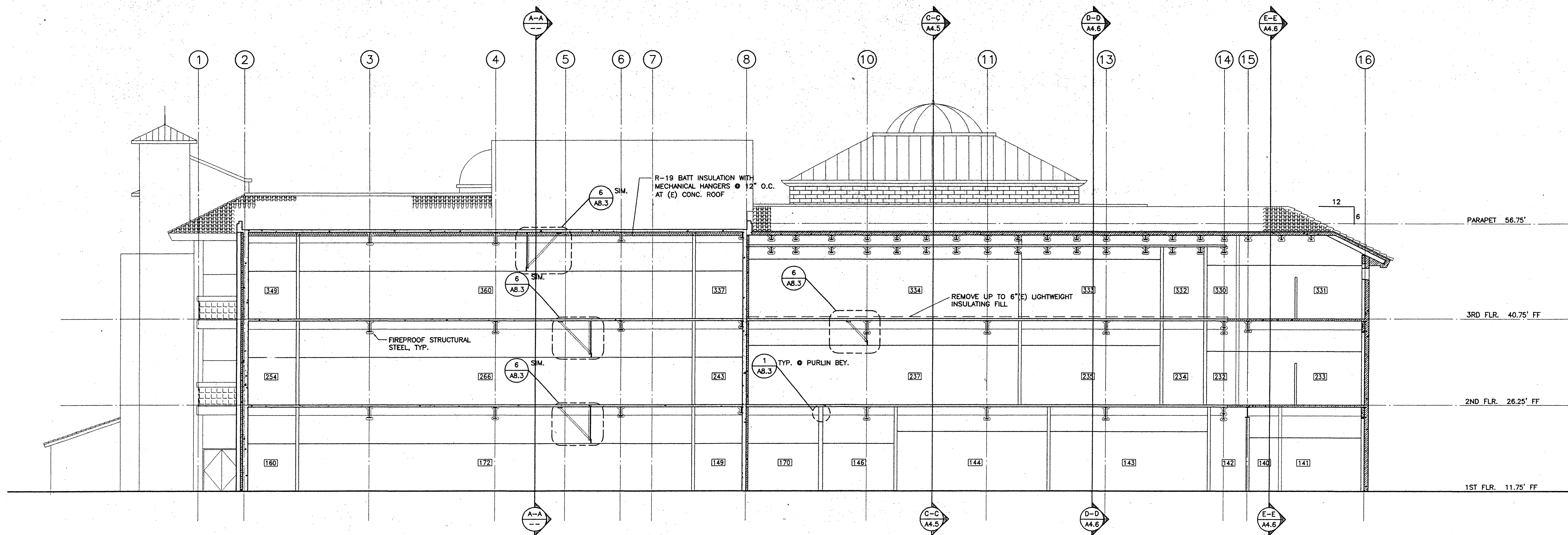
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ARCHITECTS, INC. AIA
30 W. APPELLAGA SANTA BARBARA, CA.
805/963-1726 93101

FRANK LA BARGE, A.I.A.

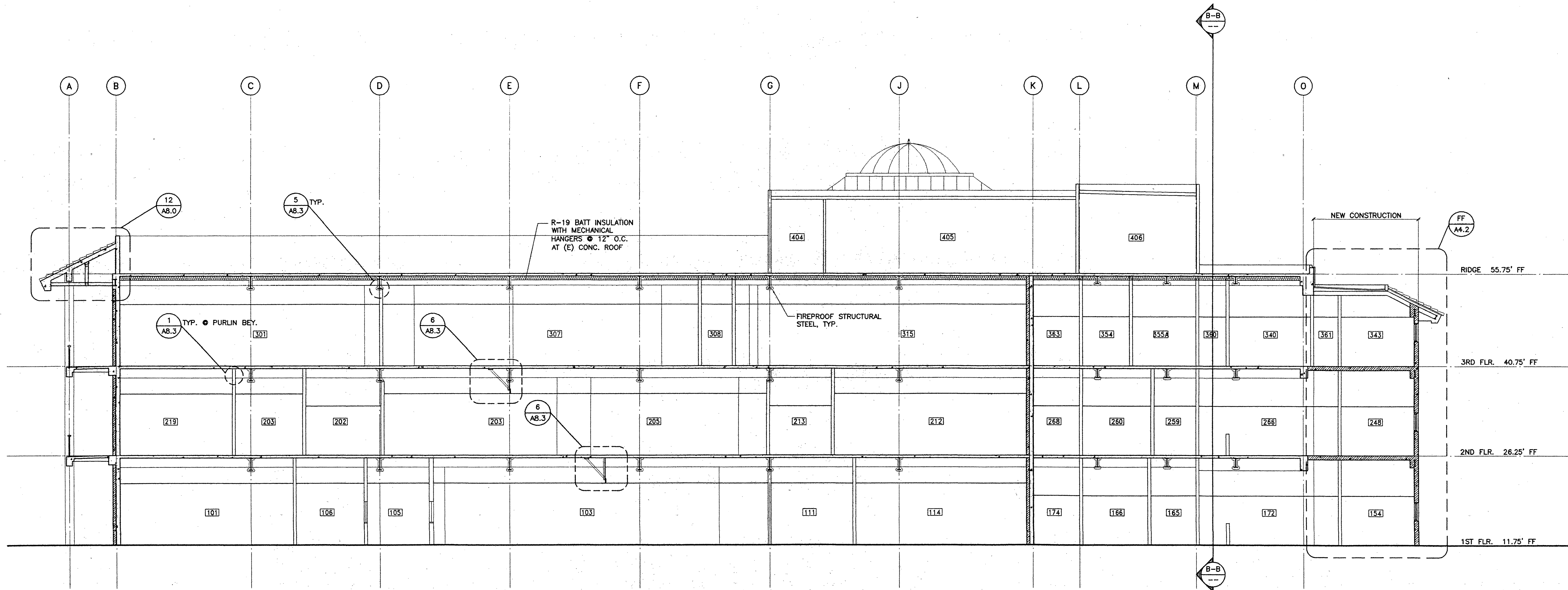
PRINCIPAL IN CHARGE

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

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



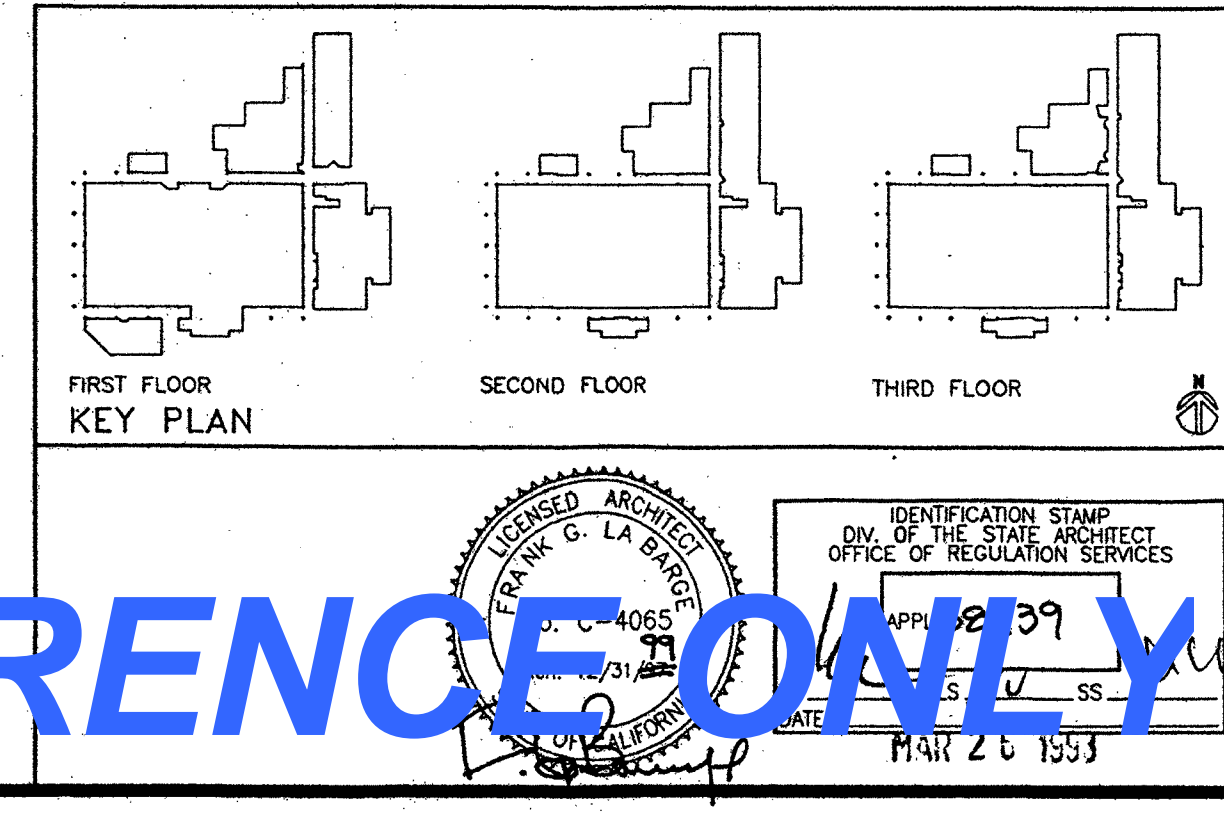
AA SECTION A-A LOOKING NORTH
SCALE: 1/8" = 1'-0"

BID PACKAGE C LONG BEACH CITY COLLEGE
(LIBERAL ARTS CAMPUS)
MODIFICATIONS TO EXISTING SCIENCE/MATH BUILDING 'D'
(HEALTH/SAFETY CODE CORRECTIONS)
FOR
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4901 EAST CARSON STREET
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AS-BUILT

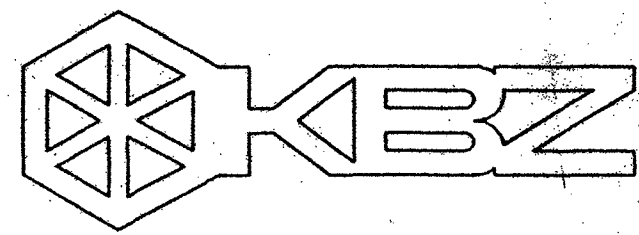
NO.	DESCRIPTION	DATE	BY

DRAWN	REA
CHECKED	FLB
DATE	03/26/98
JOB NO.	93-42
SHEET TITLE	BUILDING SECTIONS A-A B-B
SHEET	A4.2
OF	



FOR REFERENCE ONLY

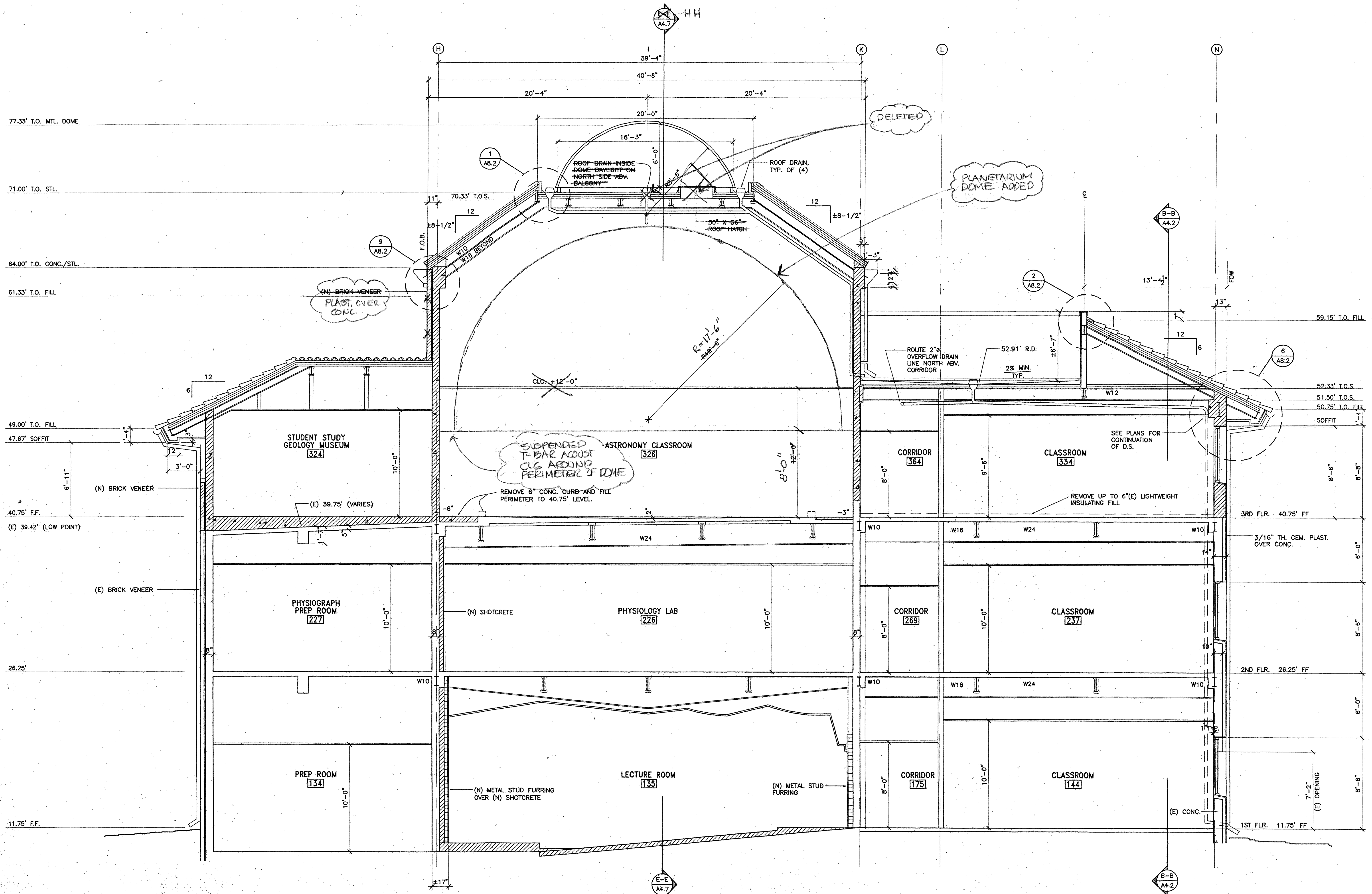
CalPhotos (805) 200-2100, 2.0mg, Rev. Mar. 23, 19, 50, 1998



KRUGER BENSEN ZIEMER
ARCHITECTS, INC. AIA
30 W. ARRELLA CA. SANTA BARBARA, CA 93101
805/963-1726

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

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SECTION C-C (LOOKING NORTH)
SCALE: 1/4" = 1'-0"

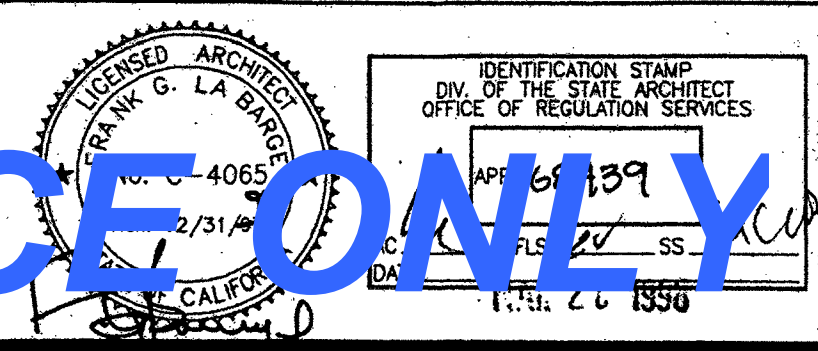
BID PACKAGE C LONG BEACH CITY COLLEGE
(LIBERAL ARTS CAMPUS)
MODIFICATIONS TO EXISTING SCIENCE/MATH BUILDING 'D'
(HEALTH/SAFETY CODE CORRECTIONS)
FOR
LONG BEACH COMMUNITY COLLEGE DISTRICT
4901 EAST CARSON STREET
LONG BEACH, CA 90808

AS-BUILT

NO.	DESCRIPTION	DATE	BY
REVISION			

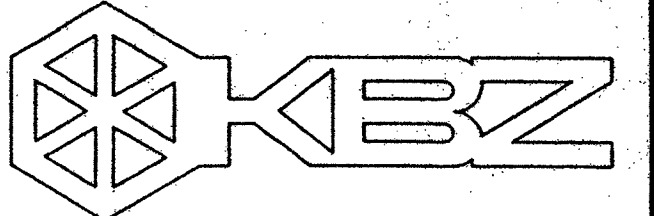
DRAWN	LJL / REA
CHECKED	FLB
DATE	03/26/98
JOB NO.	93-42
SHEET TITLE	
SECTION C-C	
SHEET	
A4.5	
OF	

FOR REFERENCE ONLY



Sheet A6.1 General Notes

VERIFY EXISTING MATERIALS ON JOB



KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA
30 W. ARRELLAGA SANTA BARBARA, CA. 93101
ROS/PKS/1728

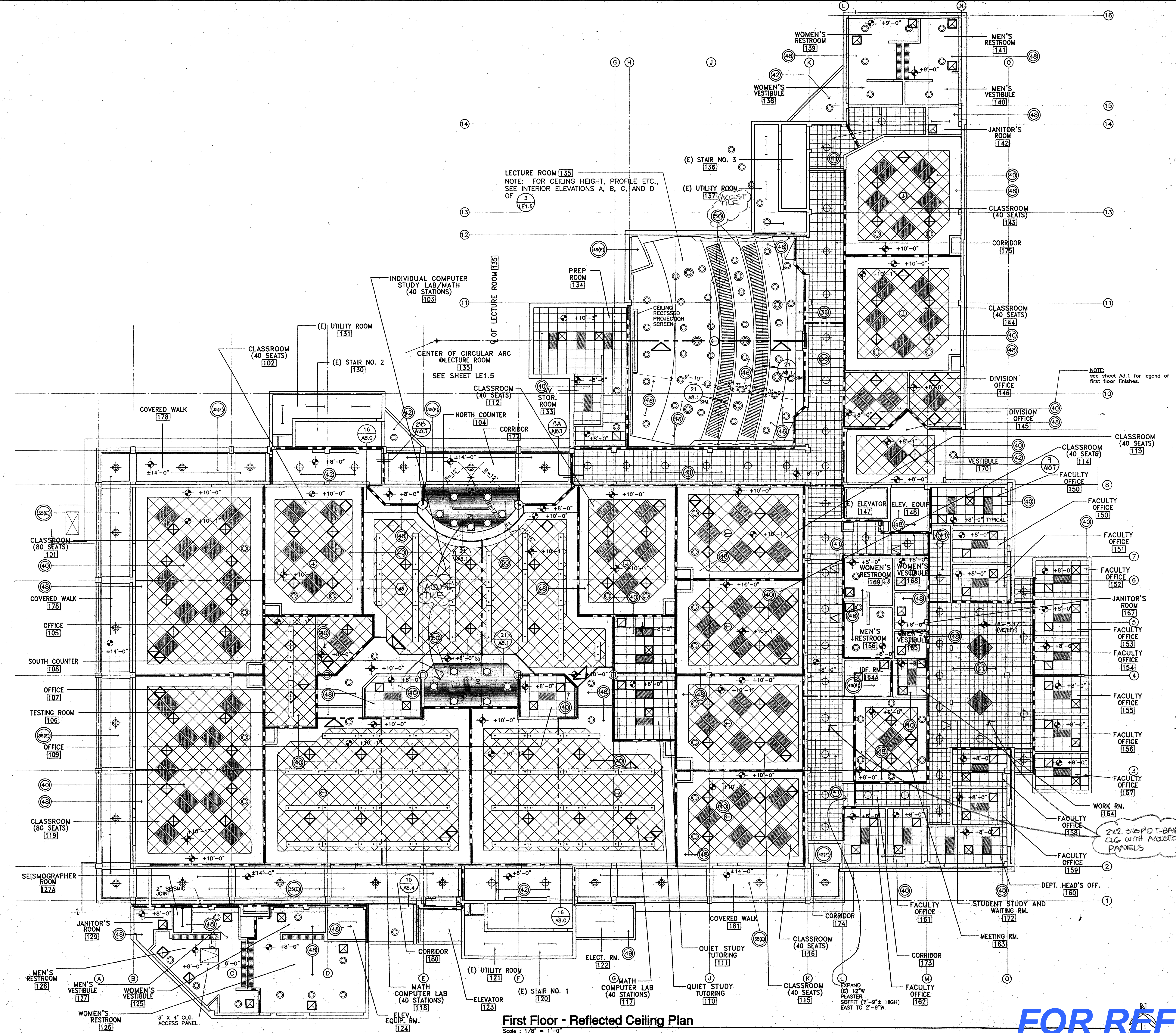
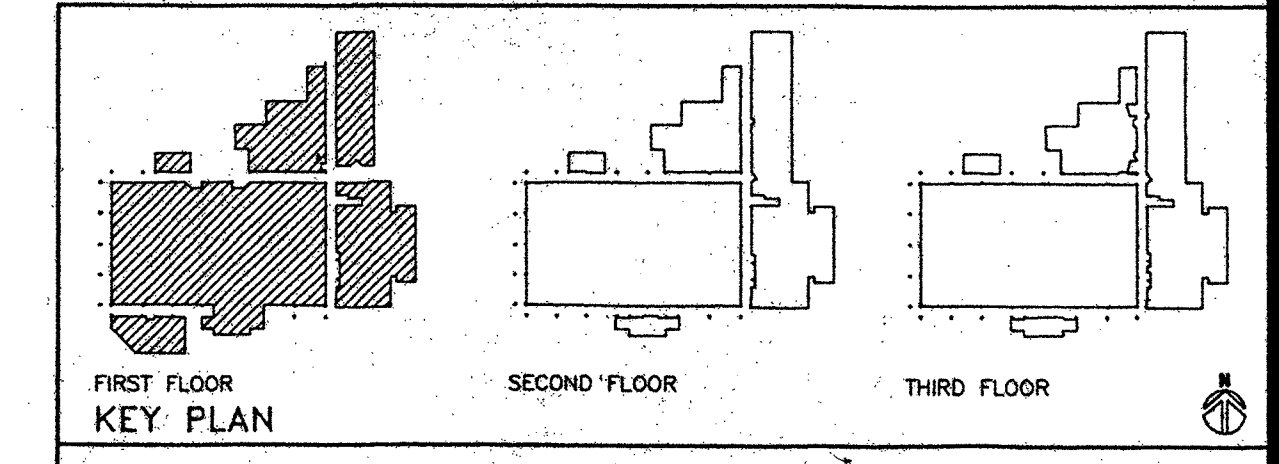
FRANK LA BARGE, A.I.A.
PRINCIPAL IN CHARGE
RICHARD KRISTIAN and JIM TREMAINE, A.I.A.
PROJECT ARCHITECTS

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Legend of Ceiling Symbols

- [Symbol] LIGHT FIXTURE (RECESSED)
- [Symbol] LIGHT FIXTURE (RECESSED)
- [Symbol] LIGHT FIXTURE (SURFACE MOUNTED)
- [Symbol] LIGHT FIXTURE (SURFACE MOUNTED)
- [Symbol] LIGHT FIXTURE (SURFACE MOUNTED)
- [Symbol] LIGHT FIXTURE (RECESSED)
- [Symbol] LIGHT FIXTURE (RECESSED)
- [Symbol] LIGHT FIXTURE (SURFACE MOUNTED)
- [Symbol] LIGHT FIXTURE (RECESSED)
- [Symbol] LIGHT FIXTURE (RECESSED)
- [Symbol] LIGHT FIXTURE (SURFACE MOUNTED)
- [Symbol] LIGHT FIXTURE (RECESSED)
- [Symbol] LIGHT FIXTURE (RECESSED)
- [Symbol] LIGHT FIXTURE (PENDANT MOUNTED)
- [Symbol] HVAC DIFFUSER
- [Symbol] HVAC DIFFUSER
- [Symbol] HVAC GRILLE
- [Symbol] HVAC GRILLE
- [Symbol] HVAC LINEAR DIFFUSER
- [Symbol] VIDEO PROJECTOR (NIC) MOUNTED BELOW CEILING SEE [Symbol] FOR VIDEO PROJECTOR MOUNT DETAIL
- [Symbol] VIDEO MONITOR (N.I.C.) MOUNTED BELOW CEILING SEE [Symbol] FOR VIDEO MONITOR MOUNT DETAIL.
- [Symbol] DRAFT STOP BETWEEN CEILING AND FLOOR STRUCTURE ABOVE. DRAFT STOP IS EXTENSION OF WALL BELOW WHERE OCCURS. WHERE NO WALL OCCURS BELOW DRAFT STOP SHALL BE CONSTRUCTED PER [Symbol]
- [Symbol] TIGHT FITTING ACCESS DOOR IN DRAFT STOP - SELF CLOSING WITH AUTOMATIC LATCH - 30" X 30"

- DRAFT STOP NOTES:
1. DRAFT STOP LOCATIONS SHOWN ARE DIAGRAMMATIC & APPROXIMATE.
 2. DRAFT STOPS AT 1ST FLOOR SHALL ENCLOSE NO MORE THAN 1000 SQ. FT. OF SPACE ABOVE CLG.
 3. ROUTE DRAFT STOPS TO AVOID CONFLICTS WITH: RECESSED LIGHT FIXTURES; PENDANT LIGHT FIXTURE SUPPORT RODS / SYSTEM; CEILING MOUNTED MECHANICAL REGISTERS; ABOVE CEILING MECHANICAL & ELECTRICAL EQUIPMENT; OTHER CLG. RECESSED EQUIP.
 4. MECHANICAL SYSTEM DUCTS MAY PENETRATE DRAFT STOP WITH TIGHT SEAL ALL AROUND.
 5. CEILING AND FIXTURE DIAGONAL BRACING & SUPPORT WIRES MAY PENETRATE DRAFT STOP WITH TIGHT SEAL.



First Floor - Reflected Ceiling Plan
Scale: 1/8" = 1'-0"

FOR REFERENCE ONLY

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

AS-BUILT

NO.	DESCRIPTION	DATE	BY

REVISION

DRAWN	SA / LUL
CHECKED	FLB
DATE	03/26/98
JOB NO.	93-42

SHEET TITLE

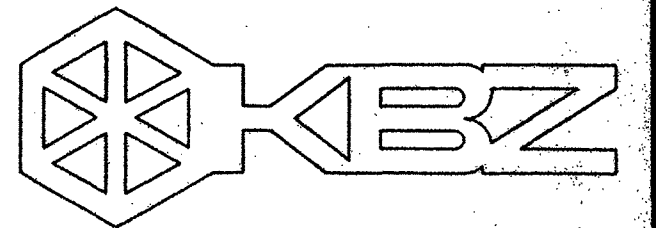
FIRST FLOOR REFLECTED CEILING PLAN

SHEET

A6.1

J:\lamb\p01\03\26\03\06_1.dwg Title No. 24 17:40:23 1998

1 VERIFY EXISTING MATERIALS ON JOB



KRUGER BENSEN ZIEMER ARCHITECTS, INC. AIA 30 W. ARRELLAGA RD. #313 7725 SANTA BARBARA, CA 93101

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

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

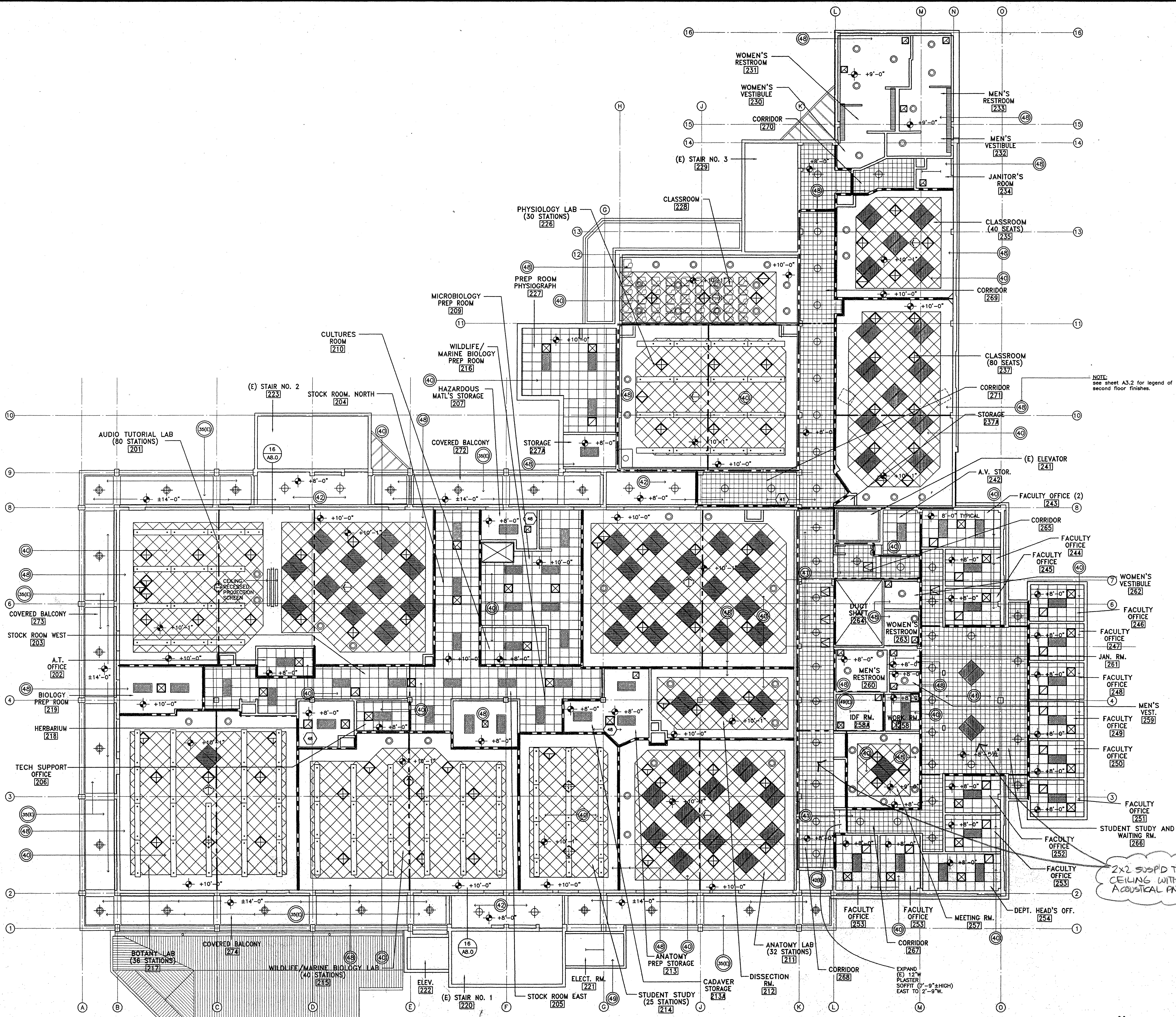
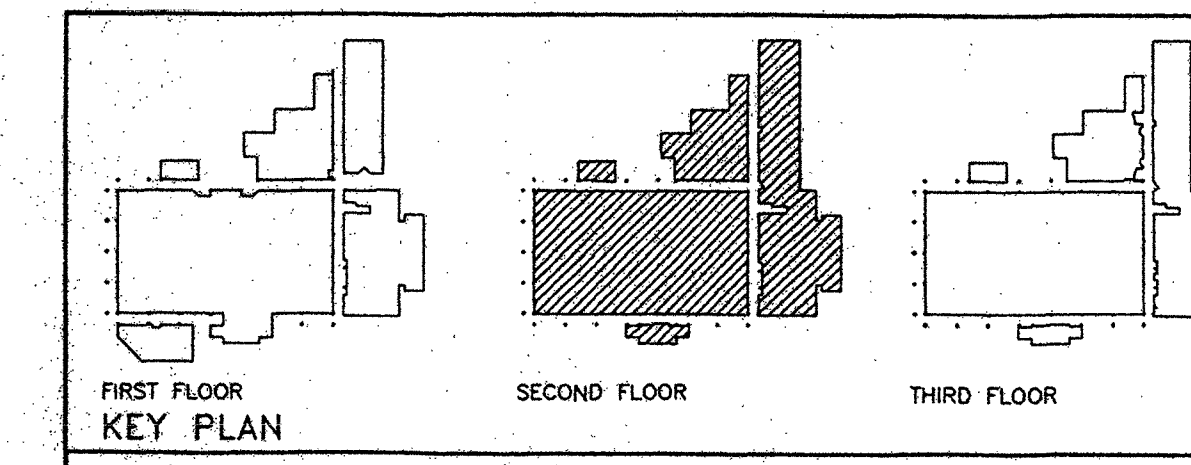
All plans, design arrangements and plans indicated or represented by this drawing are intended to be used in accordance with the provisions of the building code, and shall be subject to the approval of the local building department. No part of this drawing shall be used for any other purpose without the written permission of Kruger-Bensen-Ziemer.

Legend of Ceiling Symbols

- [Symbol] LIGHT FIXTURE (RECESSED)
- [Symbol] LIGHT FIXTURE (RECESSED)
- [Symbol] LIGHT FIXTURE (SURFACE MOUNTED)
- [Symbol] LIGHT FIXTURE (SURFACE MOUNTED)
- [Symbol] LIGHT FIXTURE (SURFACE MOUNTED)
- [Symbol] LIGHT FIXTURE (RECESSED)
- [Symbol] LIGHT FIXTURE (RECESSED)
- [Symbol] LIGHT FIXTURE (SURFACE MOUNTED)
- [Symbol] LIGHT FIXTURE (RECESSED)
- [Symbol] LIGHT FIXTURE (PENDANT MOUNTED)
- [Symbol] HVAC DIFFUSER
- [Symbol] HVAC DIFFUSER
- [Symbol] HVAC GRILLE
- [Symbol] HVAC GRILLE
- [Symbol] HVAC LINEAR DIFFUSER
- [Symbol] VIDEO PROJECTOR (NIC) MOUNTED BELOW CEILING SEE [Symbol] FOR VIDEO PROJECTOR MOUNT DETAIL.
- [Symbol] VIDEO MONITOR (N.I.C.) MOUNTED BELOW CEILING SEE [Symbol] FOR VIDEO MONITOR MOUNT DETAIL.
- [Symbol] DRAFT STOP BETWEEN CEILING AND FLOOR STRUCTURE ABOVE. DRAFT STOP IS EXTENSION OF WALL BELOW WHERE OCCURS. WHERE NO WALL OCCURS BELOW DRAFT STOP SHALL BE CONSTRUCTED PER [Symbol]
- [Symbol] TIGHT FITTING ACCESS DOOR IN DRAFT STOP - SELF CLOSING WITH AUTOMATIC LATCH - 30" X 30"

DRAFT STOP NOTES:

1. DRAFT STOP LOCATIONS SHOWN ARE DIAGRAMMATIC & APPROXIMATE
2. DRAFT STOPS AT 2ND FLOOR SHALL ENCLOSE NO MORE THAN 1000 SQ. FT. OF SPACE ABOVE CLG.
3. ROUTE DRAFT STOPS TO AVOID CONFLICTS WITH: RECESSED LIGHT FIXTURES; PENDANT LIGHT FIXTURE SUPPORT RODS/ SYSTEM; CEILING MOUNTED MECHANICAL REGISTERS; ABOVE CEILING MECHANICAL & ELECTRICAL EQUIPMENT; OTHER CLG. RECESSED EQUIP.
4. MECHANICAL SYSTEM DUCTS MAY PENETRATE DRAFT STOP WITH TIGHT SEAL ALL AROUND
5. CEILING AND FUTURE DIAGONAL BRACING & SUPPORT WIRES MAY PENETRATE DRAFT STOP WITH TIGHT SEAL.



Second Floor - Reflected Ceiling Plan Scale: 1/8" = 1'-0"

FOR REFERENCE ONLY

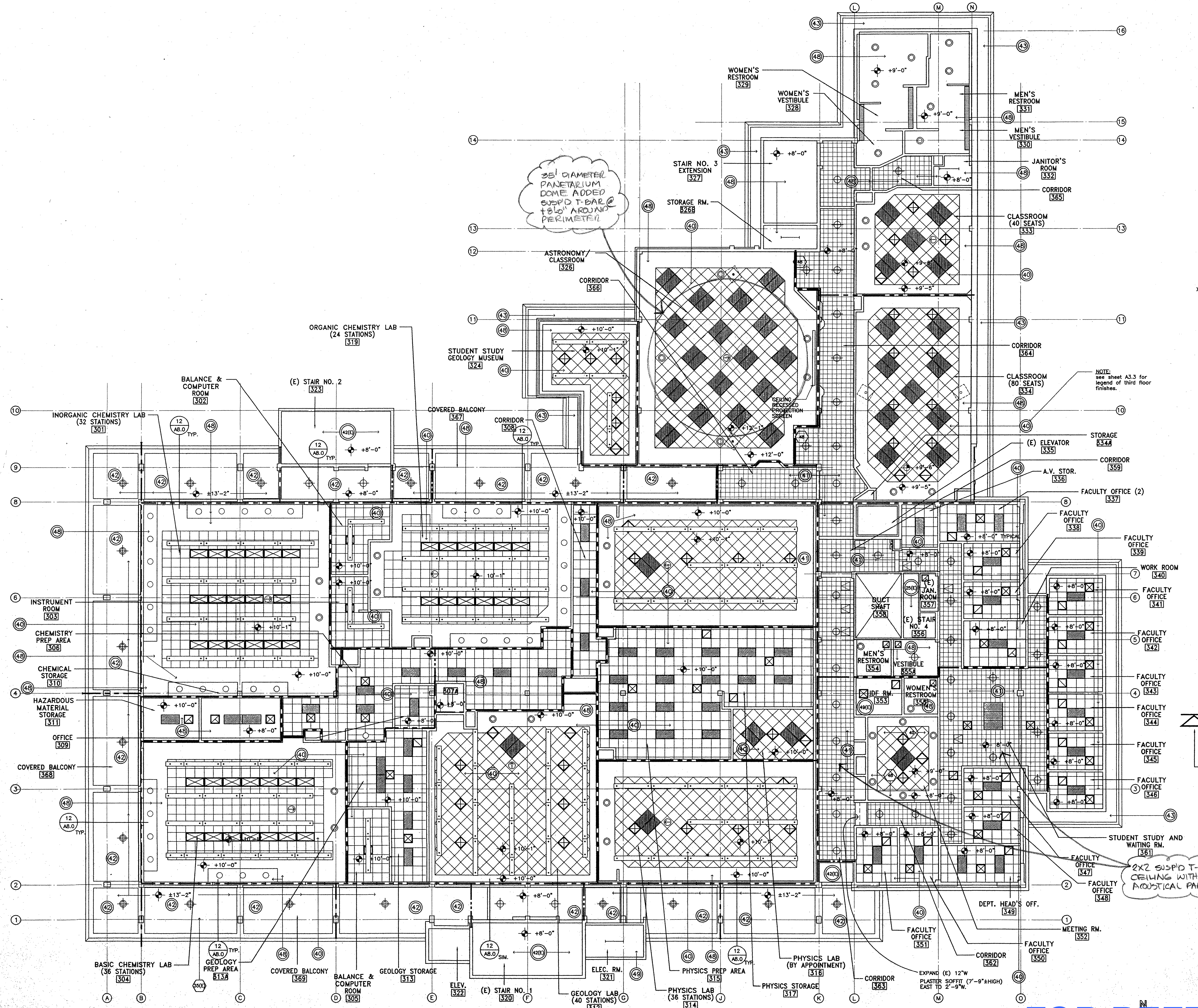
BID PACKAGE C LONG BEACH CITY COLLEGE (LIBERAL ARTS CAMPUS) MODIFICATIONS TO EXISTING SCIENCE/MATH BUILDING 'D' (HEALTH/SAFETY CODE CORRECTIONS) FOR LONG BEACH COMMUNITY COLLEGE DISTRICT 4901 EAST CARSON STREET LONG BEACH, CA 90808

AS-BUILT

NO.	DESCRIPTION	DATE	BY

DRAWN	LIL / SA
CHECKED	FLB
DATE	03/26/98
JOB NO.	93-42
SHEET TITLE	SECOND FLOOR REFLECTED CEILING PLAN
SHEET	A6.2
OF	

4. L:\csp\1\934200\934200_A6.2.dwg Plot Date: 24 Feb 98 05:19:58

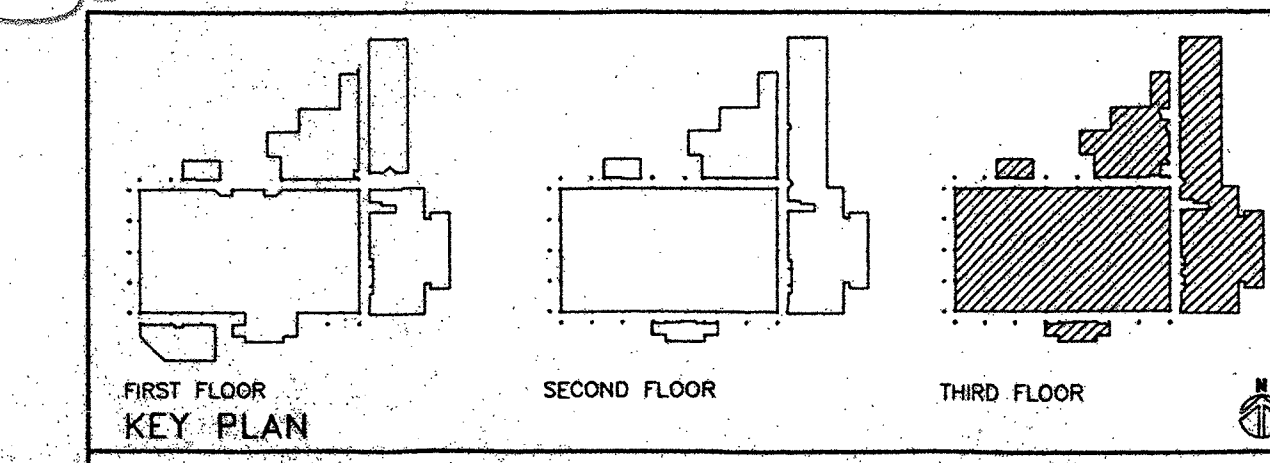


Legend of Ceiling Symbols

- LIGHT FIXTURE (RECESSED)
- LIGHT FIXTURE (RECESSED)
- LIGHT FIXTURE (SURFACE MOUNTED)
- LIGHT FIXTURE (SURFACE MOUNTED)
- LIGHT FIXTURE (RECESSED)
- LIGHT FIXTURE (RECESSED)
- LIGHT FIXTURE (RECESSED)
- LIGHT FIXTURE (RECESSED)
- LIGHT FIXTURE (RECESSED)
- LIGHT FIXTURE (SURFACE MOUNTED)
- LIGHT FIXTURE (SURFACE MOUNTED)
- LIGHT FIXTURE (SURFACE MOUNTED)
- LIGHT FIXTURE (SURFACE MOUNTED)
- LIGHT FIXTURE (SURFACE MOUNTED)
- LIGHT FIXTURE (PENDANT MOUNTED)
- HVAC DIFFUSER
- HVAC DIFFUSER
- HVAC GRILLE
- HVAC GRILLE
- CEILING ACCESS PANEL
- HVAC LINEAR DIFFUSER
- VIDEO PROJECTOR (NIC) MOUNTED BELOW CEILING SEE 11 AB.0 FOR VIDEO PROJECTOR MOUNT DETAIL
- VIDEO MONITOR (N.I.C.) MOUNTED BELOW CEILING SEE 10 AB.0 FOR VIDEO MONITOR MOUNT DETAIL
- DRAFT STOP BETWEEN CEILING AND FLOOR STRUCTURE ABOVE. DRAFT STOP IS EXTENSION OF WALL BELOW WHERE OCCURS. WHERE NO WALL OCCURS BELOW DRAFT STOP SHALL BE CONSTRUCTED PER 6 AB.3
- TIGHT FITTING ACCESS DOOR IN DRAFT STOP-SELF CLOSING WITH AUTOMATIC LATCH - 30" x 30"

DRAFT STOP NOTES:

1. DRAFT STOP LOCATIONS SHOWN ARE DIAGNOSTIC & APPROXIMATE
2. DRAFT STOPS AT 3RD FLOOR SHALL ENCLOSE NO MORE THAN 3000 SQ. FT. OF SPACE ABOVE CLG.
3. ROUTE DRAFT STOPS TO AVOID CONFLICTS WITH RECESSED LIGHT FIXTURES; PENDENT LIGHT FIXTURE SUPPORT ROOFS/ SYSTEM; CEILING MOUNTED MECHANICAL REGISTERS; ABOVE CEILING MECHANICAL & ELECTRICAL EQUIPMENT; OTHER CLG. RECESSED EQUIP.
4. MECHANICAL SYSTEM DUCTS MAY PENETRATE DRAFT STOP WITH TIGHT SEAL ALL AROUND
5. CEILING AND FIXTURE DIAGONAL BRACING & SUPPORT WIRES MAY PENETRATE DRAFT STOP WITH TIGHT SEAL.



Third Floor - Reflected Ceiling Plan
Scale: 1/8" = 1'-0"

FOR REFERENCE ONLY

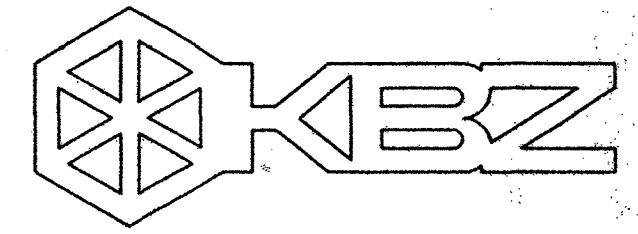
BID PACKAGE C LONG BEACH CITY COLLEGE (LIBERAL ARTS CAMPUS)
MODIFICATIONS TO EXISTING SCIENCE/MATH BUILDING 'D' (HEALTH/SAFETY CODE CORRECTIONS)
FOR
LONG BEACH COMMUNITY COLLEGE DISTRICT
4901 EAST CARSON STREET
LONG BEACH, CA 90808

AS-BUILT

NO.	DESCRIPTION	DATE	BY

DRAWN	LIL / SA
CHECKED	FLB
DATE	06/01/98
JOB NO.	93-42
SHEET TITLE	THIRD FLOOR REFLECTED CEILING PLAN
SHEET	A6.3

C:\PROJ\93\001\PACKAGE 3.dwg, P1, Jun 05 14:26:26 1998, LIL



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

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

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

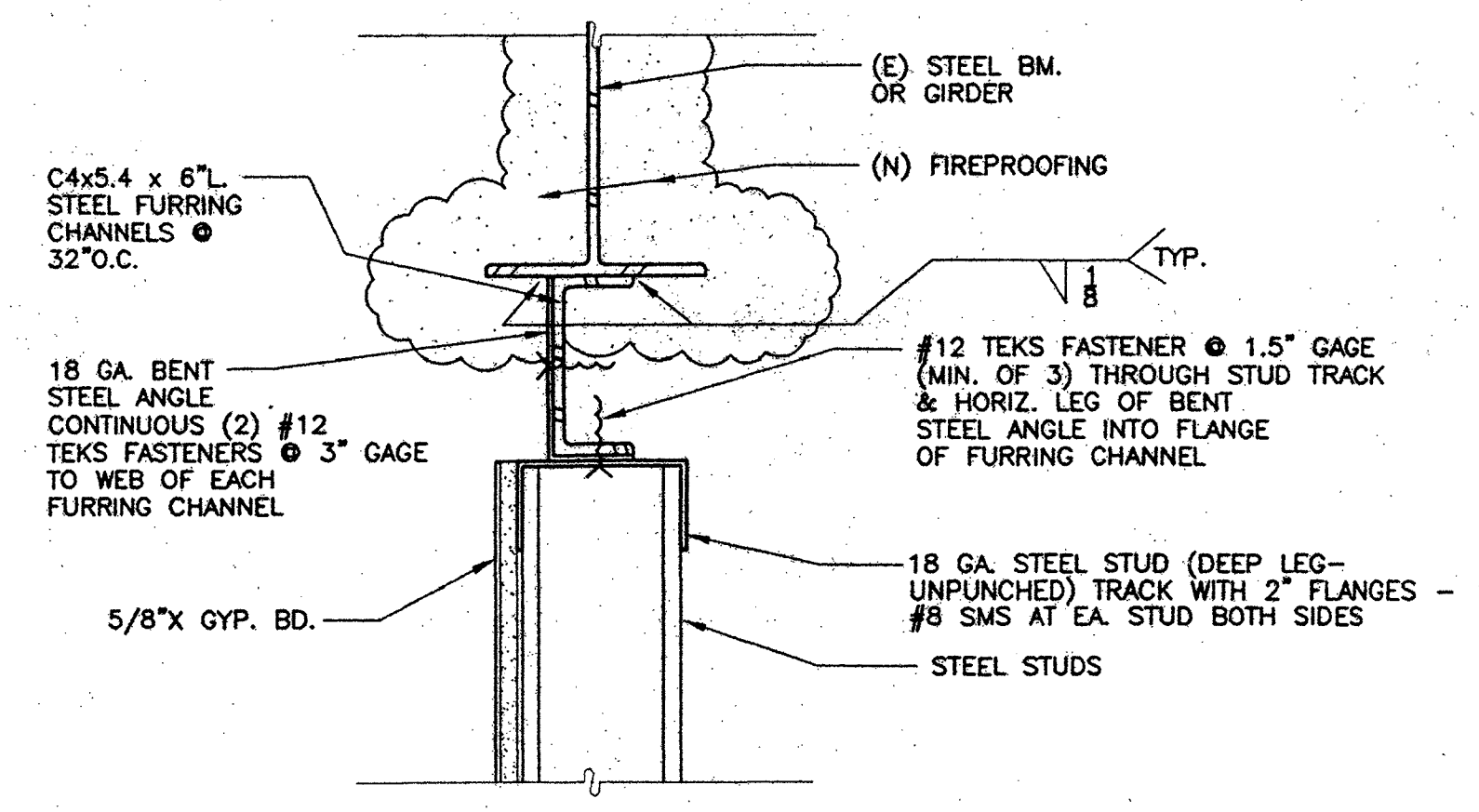
All steel, masonry components and joints indicated or represented by this drawing are shown by and are the property of Kruger-Bensen-Ziemer. All materials are used as specified, unless otherwise noted. In connection with the specified materials, notes of steel, masonry, masonry or joint shall be used by or the written permission of Kruger-Bensen-Ziemer.

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

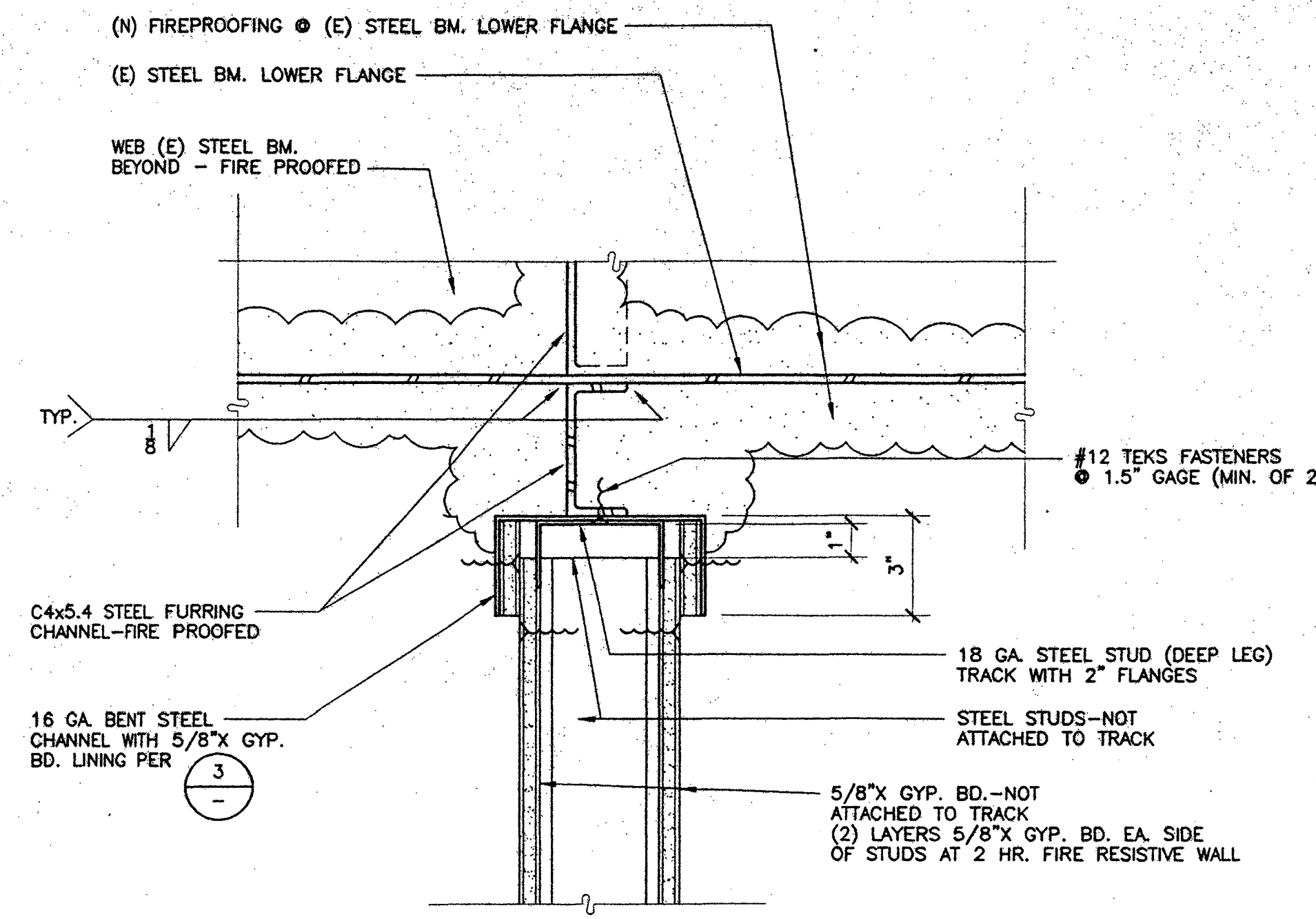
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NO.	DESCRIPTION	DATE	BY

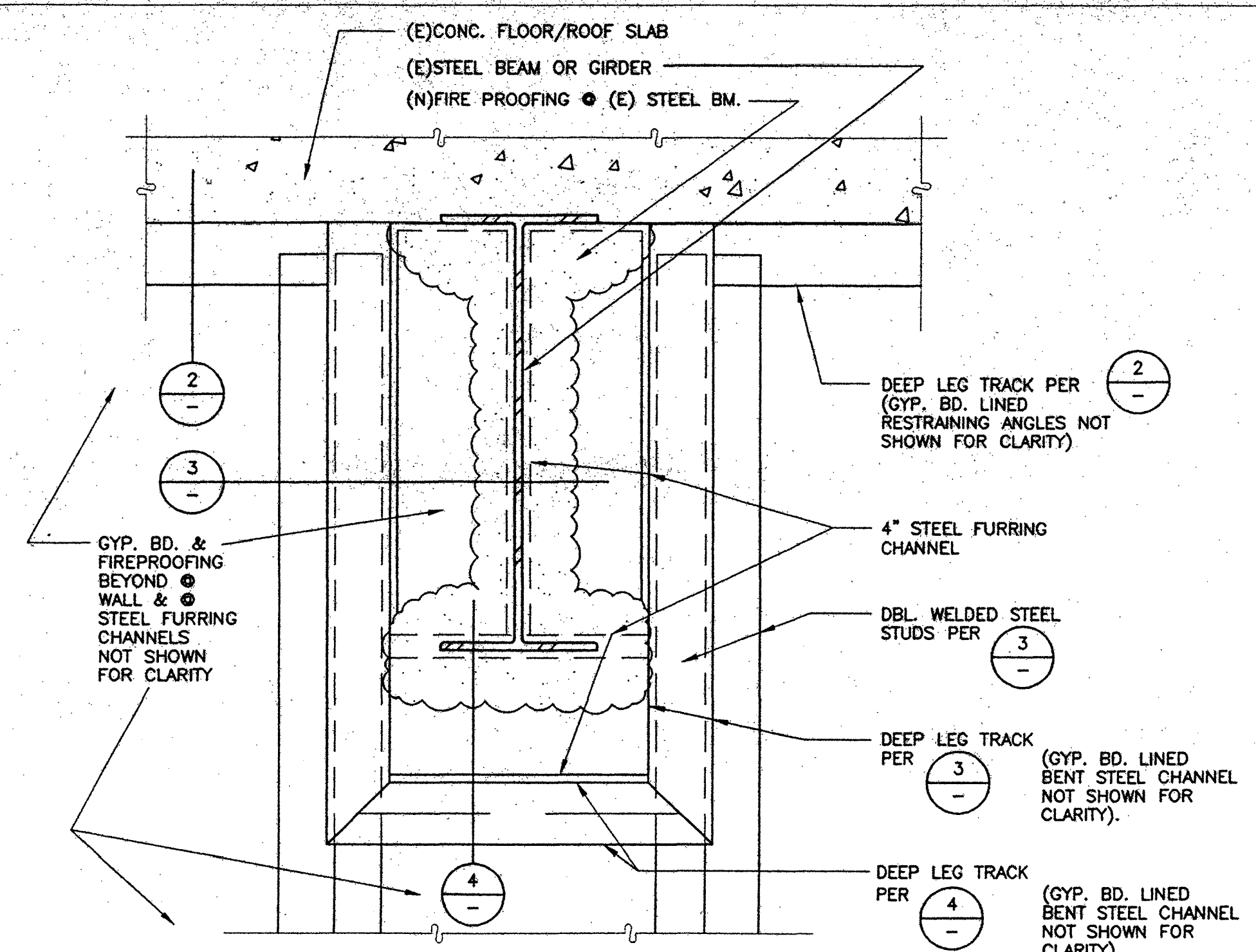
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CHECKED	JT
DATE	12/10/97
JOB NO.	93-42
SHEET TITLE	DETAILS
SHEET	A8.3
OF	



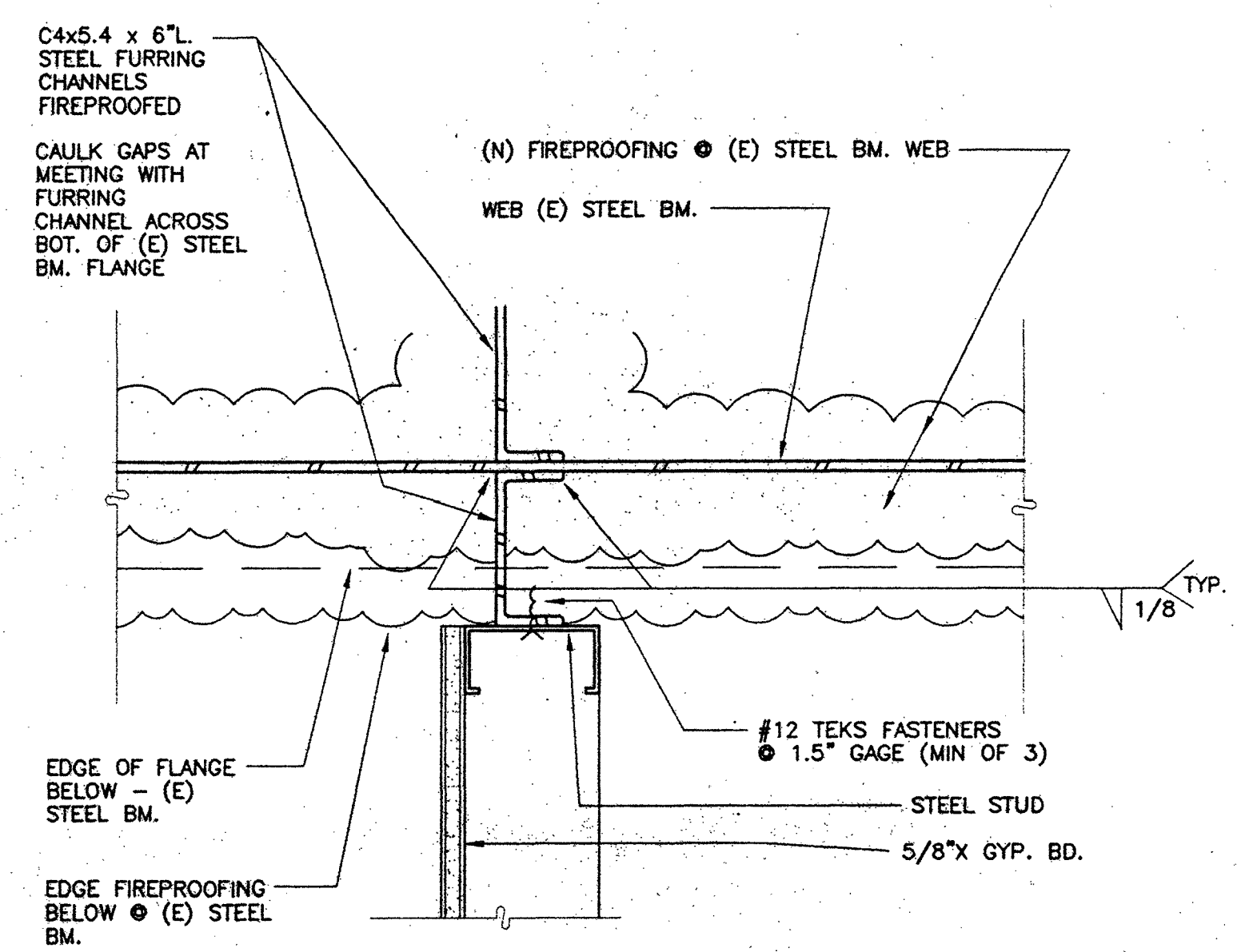
7 DRAFT STOP @ EXISTING STEEL BEAM (PARALLEL)
SCALE: 3"=1'-0"



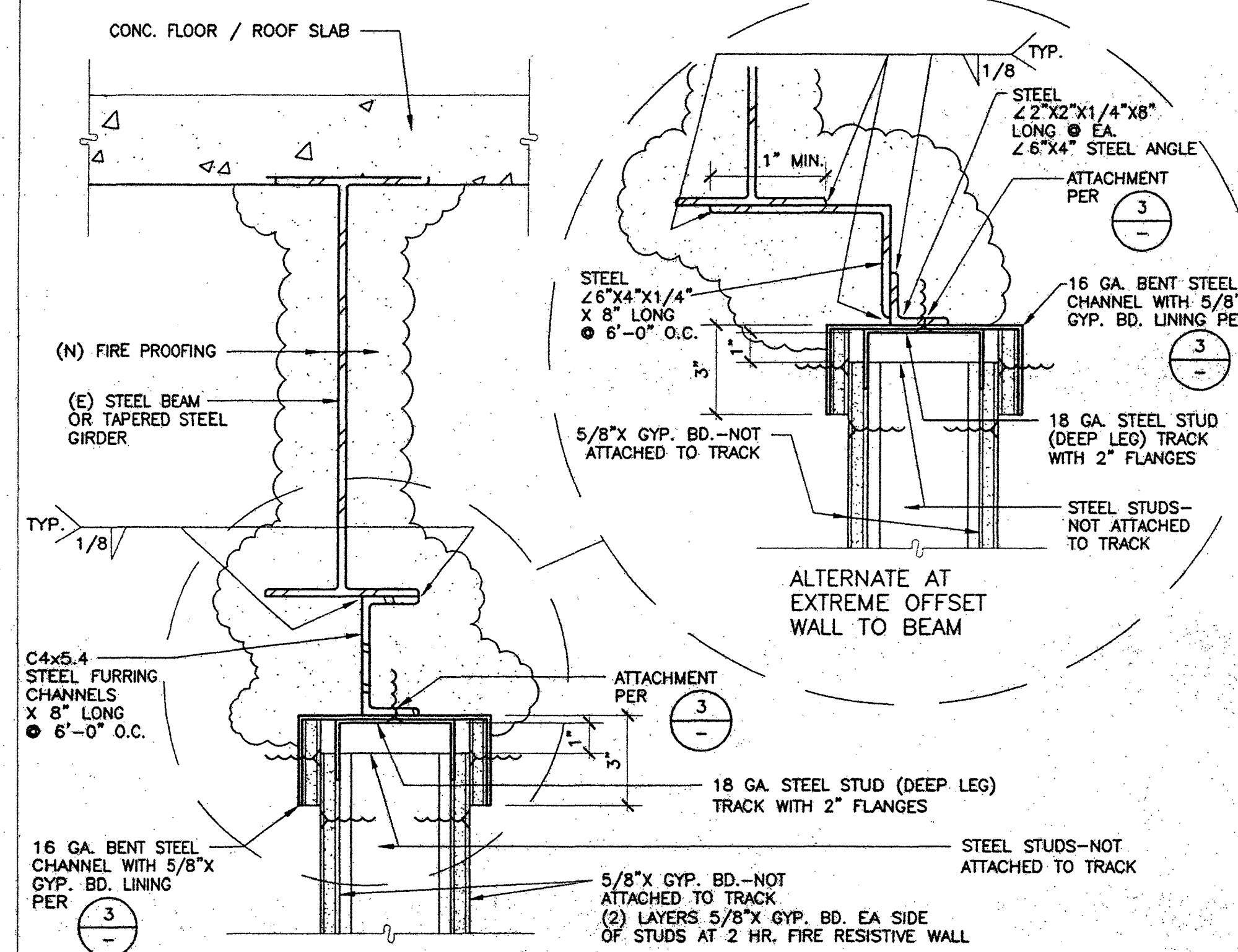
4 1 HR. FIRE RESISTIVE WALL CROSSING BOT. OF EXISTING STEEL BEAM
SCALE: 3"=1'-0"
2 HR. FIRE RESISTIVE WALL - SIMILAR



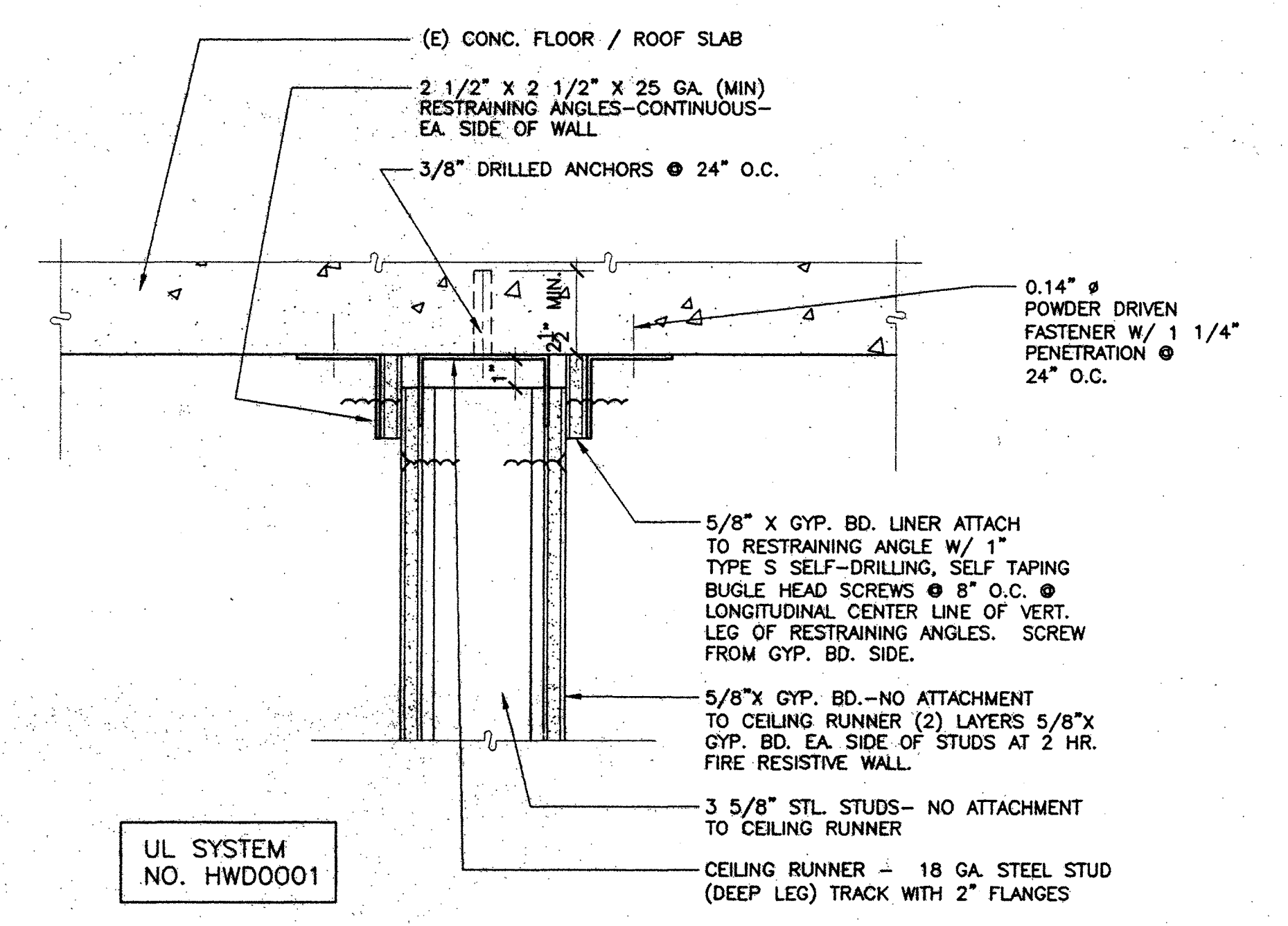
1 WALL FRAMING ELEVATION AT EXIST. STEEL BEAM, 1 HR. FIRE RESISTIVE WALL WITH DEFLECTION JOINT
SCALE: 3"=1'-0"
2 HR. FIRE RESISTIVE WALL - SIMILAR



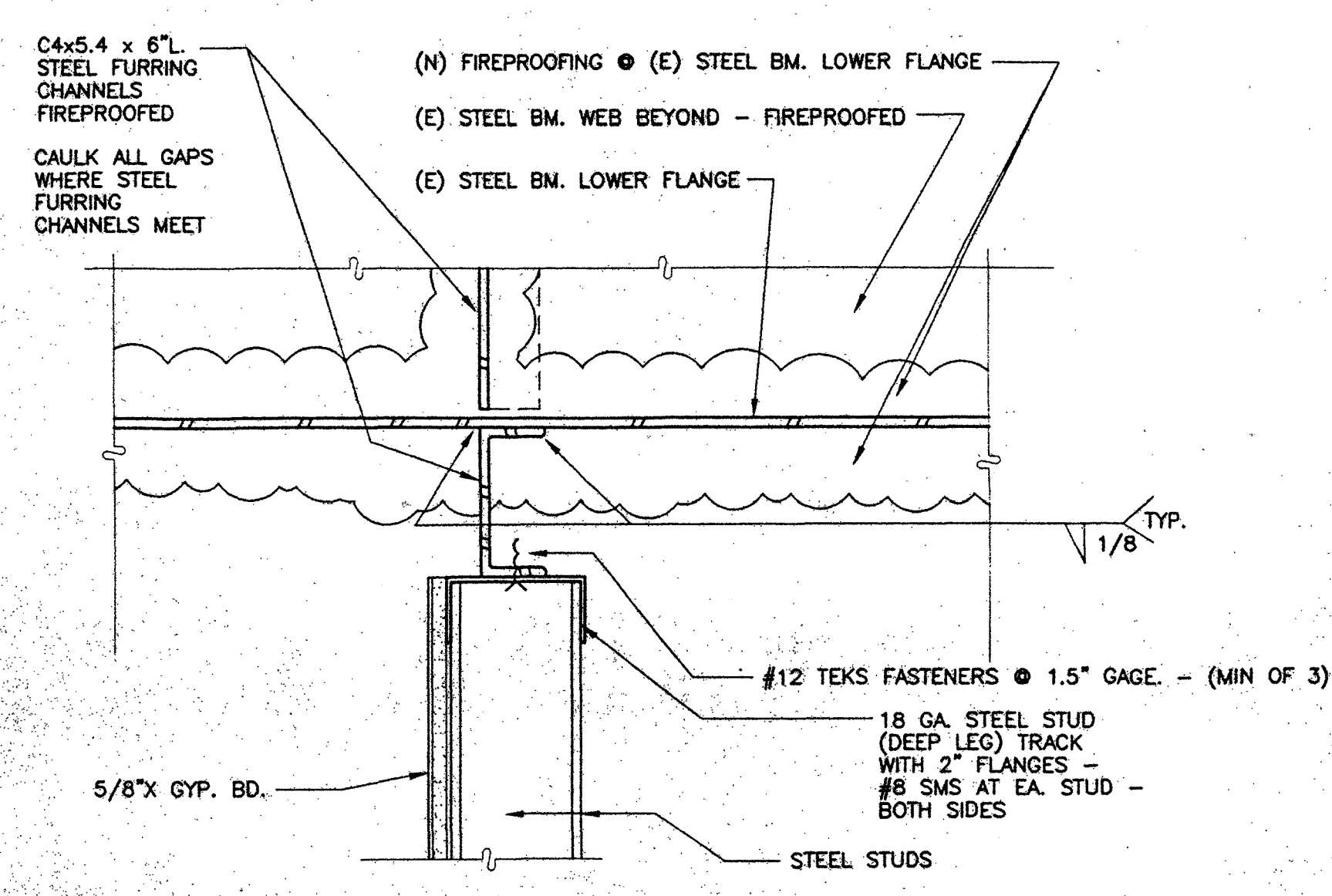
8 DRAFT STOP @ SIDE OF EXISTING STEEL BEAM
SCALE: 3"=1'-0"



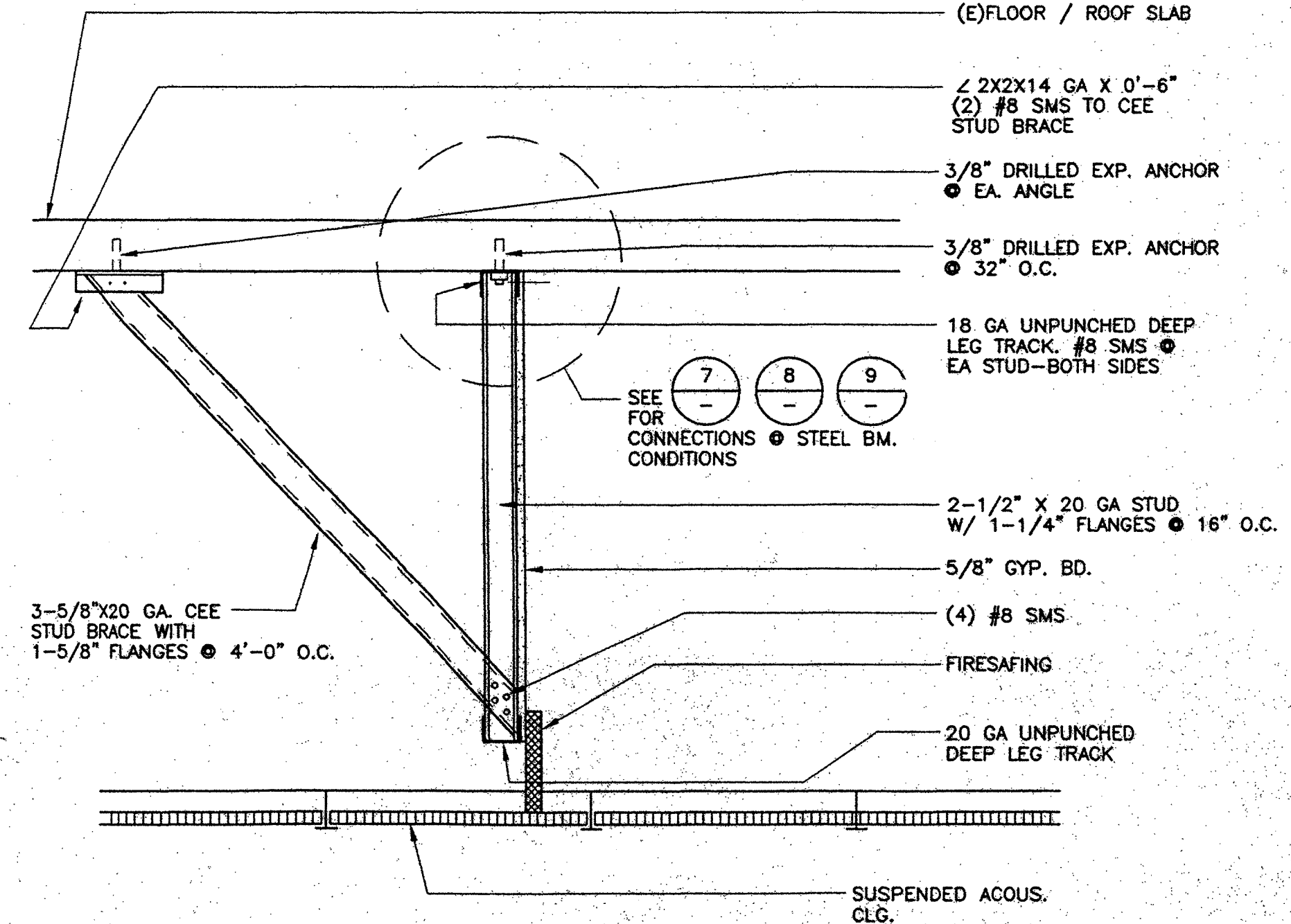
5 1 HR. FIRE RESISTIVE WALL AT EXIST. STEEL BEAM (PARALLEL)
SCALE: 3"=1'-0"
2 HR. FIRE RESISTIVE WALL - SIMILAR



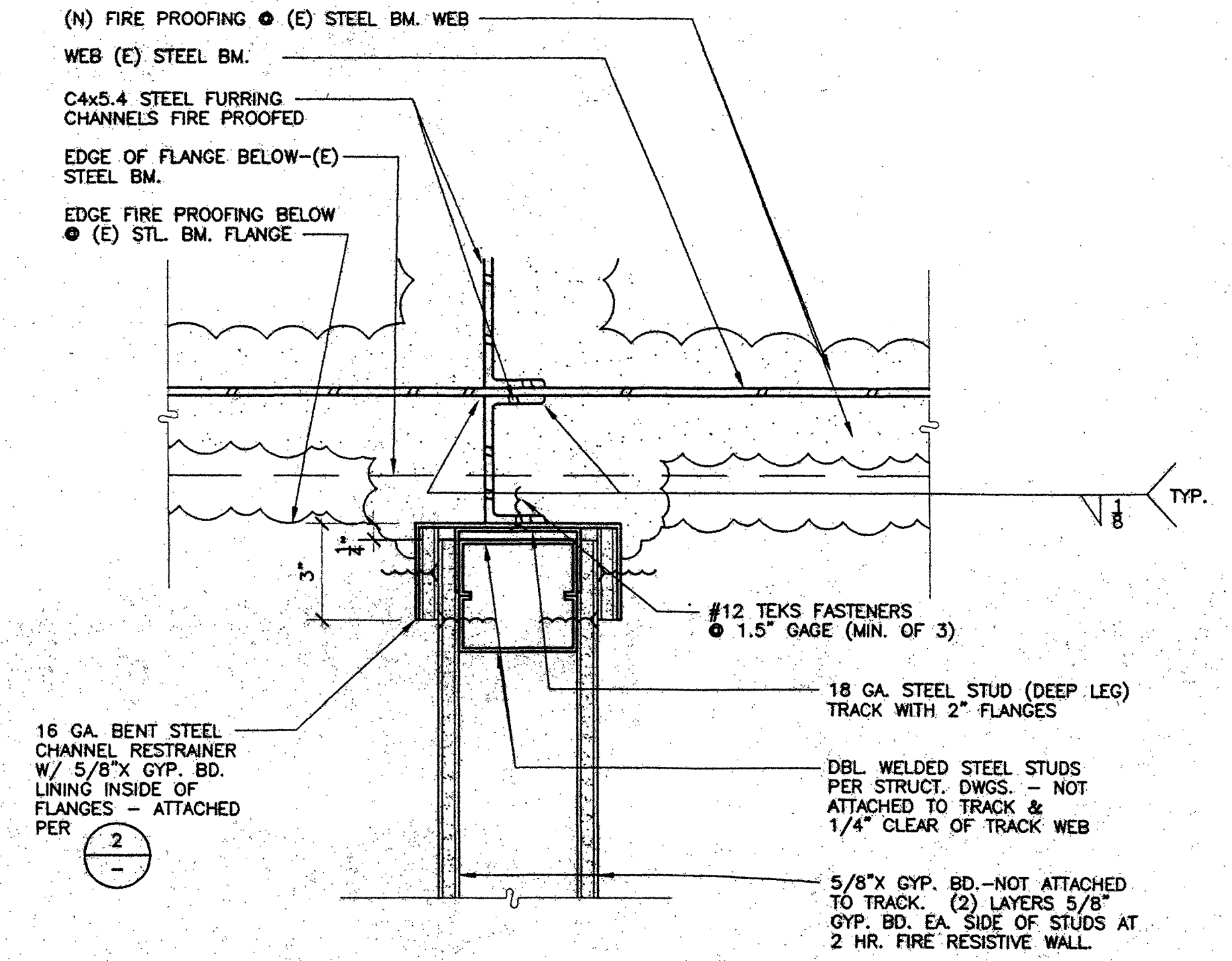
2 1 HR. FIRE RESISTIVE WALL AT BOTTOM EXISTING CONC. FLOOR / ROOF SLAB
SCALE: 3"=1'-0"
2 HR. FIRE RESISTIVE WALL - SIMILAR



9 DRAFT STOP CROSSING BOTTOM EXIST. STEEL BEAM
SCALE: 3"=1'-0"



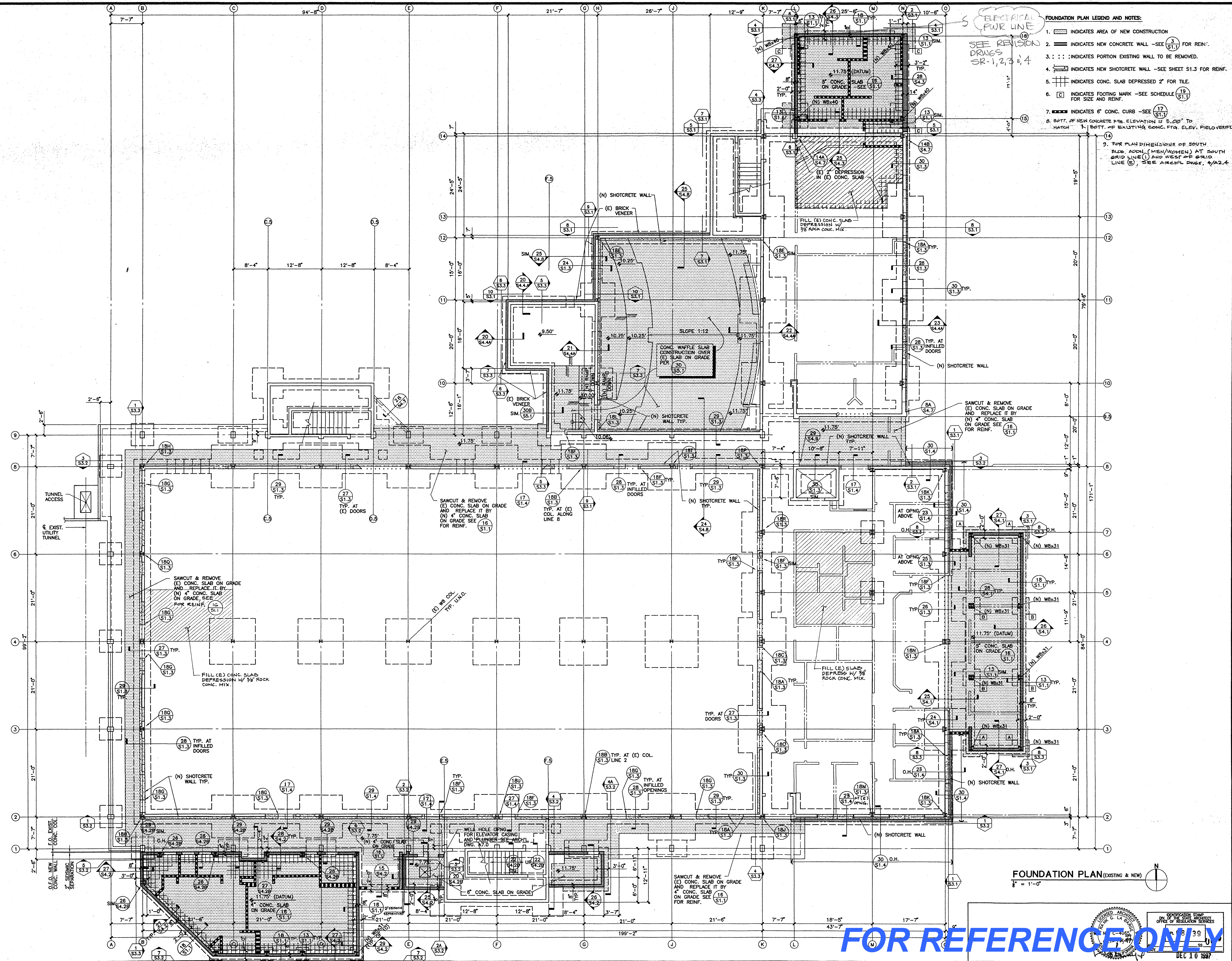
6 DRAFT STOP @ BOTTOM FLOOR / ROOF SLAB
SCALE: 1"=1'-0"



3 1 HR. FIRE RESISTIVE WALL AT SIDE OF EXISTING STEEL BEAM
SCALE: 3"=1'-0"
2 HR. FIRE RESISTIVE WALL - SIMILAR

FOR REFERENCE ONLY

4/10/97 (10:30 AM) 10/10/97 (10:30 AM) 10/10/97 (10:30 AM) 10/10/97 (10:30 AM) 10/10/97 (10:30 AM)



- FOUNDATION PLAN LEGEND AND NOTES:**
- INDICATES AREA OF NEW CONSTRUCTION
 - INDICATES NEW CONCRETE WALL - SEE (S1.1) FOR REINF.
 - INDICATES PORTION EXISTING WALL TO BE REMOVED.
 - INDICATES NEW SHOTCRETE WALL - SEE SHEET S1.3 FOR REINF.
 - INDICATES CONG. SLAB DEPRESSED 2" FOR TILE.
 - INDICATES FOOTING MARK - SEE SCHEDULE (S1.1) FOR SIZE AND REINF.
 - INDICATES 6" CONG. CURB - SEE (S1.1) FOR REINF.
 - BOTT. OF NEW CONCRETE FTG. ELEVATION IS 5.20' TO MATCH BOTT. OF EXISTING CONG. FTG. ELEV. FIELD VERIFY.
 - FOR PLAN DIMENSIONS OF SOUTH BLDG. ADDL. (MEN/WOMEN) AT SOUTH GRID LINE (1) AND WEST OF GRID LINE (E), SEE ARCH'L DWGS. 4/22.4.

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
 30 W. ARRELLAGA SANTA BARBARA, CA 93101
 805/963.1728

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

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

KANDA T&O
 KANDA AND T&O ASSOCIATES
 CONSULTING STRUCTURAL ENGINEERS
 511 HANSON STREET
 SOUTH PASADENA, CA 91080-3026
 TEL: (626) 441-1211
 FAX: (626) 441-1011

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

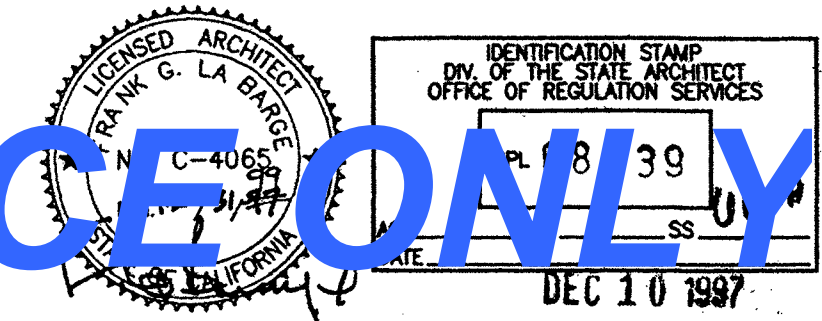
AS-BUILT

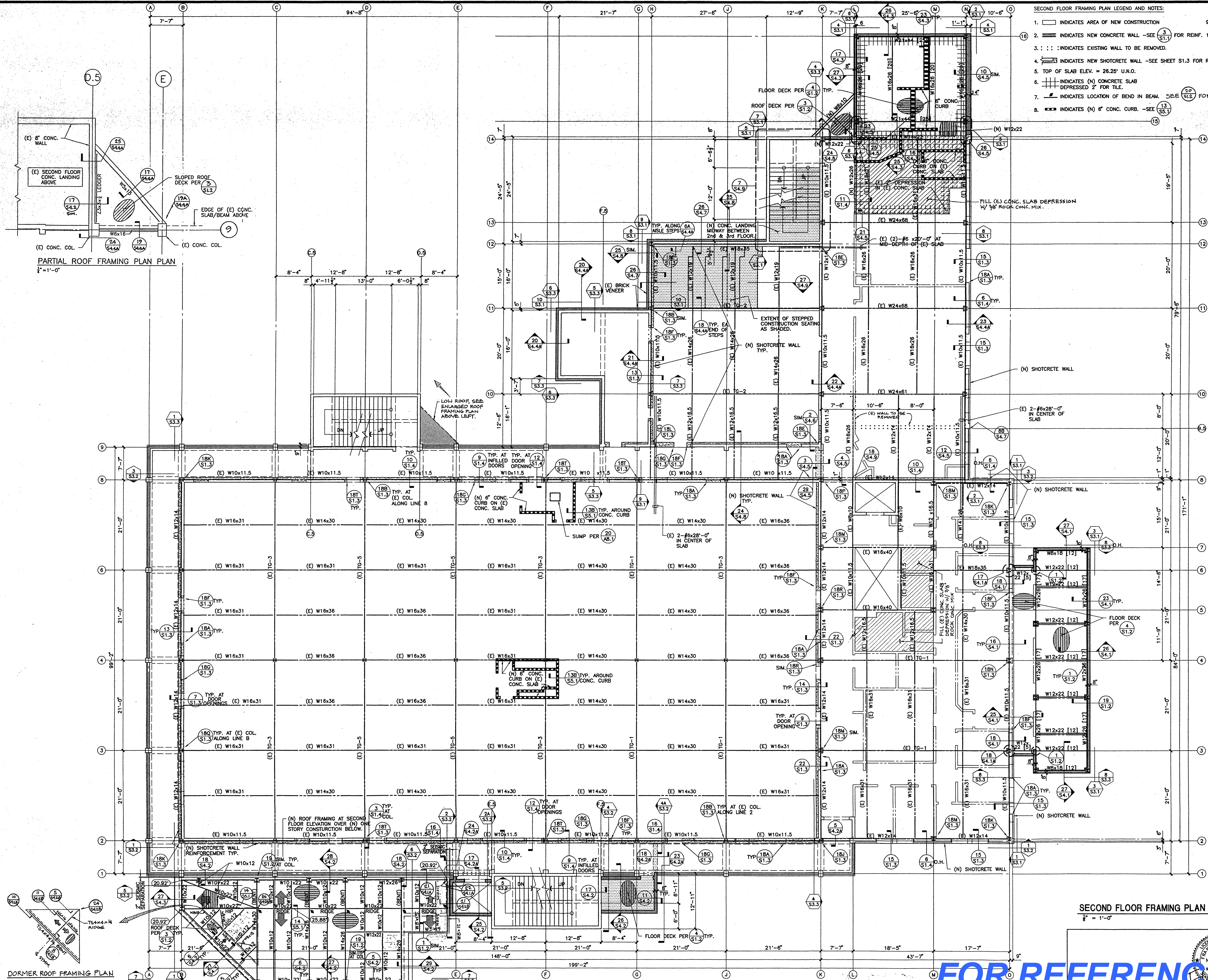
NO.	DESCRIPTION	DATE	BY

FOUNDATION PLAN (EXISTING AND NEW)

DRAWN	M. OLAGUE
CHECKED	M. KANDA
DATE	12/10/97
JOB NO.	93-42
SHEET TITLE	FOUNDATION PLAN (EXISTING AND NEW)
SHEET	S2.1

FOR REFERENCE ONLY





- SECOND FLOOR FRAMING PLAN LEGEND AND NOTES:**
1. [Symbol] INDICATES AREA OF NEW CONSTRUCTION
 2. [Symbol] INDICATES NEW CONCRETE WALL - SEE [Symbol] FOR REINF. 10. $\overline{\text{---}}$ INDICATES CAMBER AT MIDSPAN OF BEAM.
 3. [Symbol] : : : INDICATES EXISTING WALL TO BE REMOVED.
 4. [Symbol] INDICATES NEW SHOTCRETE WALL - SEE SHEET S1.3 FOR REINF.
 5. TOP OF SLAB ELEV. = 26.25' U.M.O.
 6. [Symbol] INDICATES (N) CONCRETE SLAB DEPRESSION 2" FOR TILE.
 7. [Symbol] INDICATES LOCATION OF BEND IN BEAM. SEE [Symbol] FOR DETAIL.
 8. [Symbol] INDICATES (N) 6" CONC. CURB - SEE [Symbol]
 9. [Symbol] [20] INDICATES NUMBER OF EQUALLY SPACED NELSON STUDS PER DETAIL [Symbol]
 14. [Symbol] INDICATES NUMBER OF EQUALLY SPACED NELSON STUDS PER DETAIL [Symbol]

PARTIAL ROOF FRAMING PLAN
1/4" = 1'-0"

SECOND FLOOR FRAMING PLAN (EXISTING & NEW)
1/4" = 1'-0"

DORMER ROOF FRAMING PLAN

REVISED 4/11
MAR 26 1998

FOR REFERENCE ONLY

IDENTIFICATION STAMP
OFFICE OF THE STATE ARCHITECT
No. C-4065
APR 6 1998
68439

KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARRELLA CA. 93101
SANTA BARBARA, CA 93101

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

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

KANDA TSO
KANDA AND TSO ASSOCIATES
CORPORATE STRUCTURAL ENGINEERS
511 MESSON STREET
SOUTH BEND, IN. 46601-3035
TEL: (219) 441-1311
FAX: (219) 441-1011

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

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

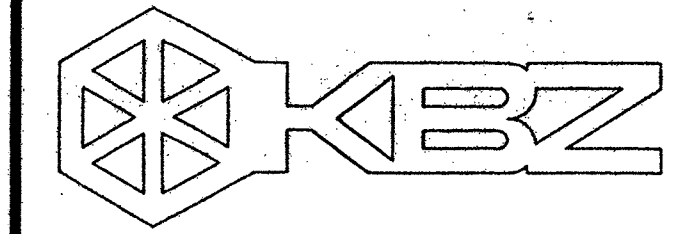
FOR
LONG BEACH COMMUNITY COLLEGE DISTRICT

4601 EAST CARSON STREET
LONG BEACH, CA 90808

AS-BUILT

NO.	DESCRIPTION	DATE	BY

DRAWN	M. OLAGUE
CHECKED	M. KANDA
DATE	3/26/98
JOB NO.	93-42
SHEET TITLE	SECOND FLOOR FRAMING PLAN (EXISTING AND NEW)
SHEET	S2.2
OF	



KRUGER BENSEN ZIEMER ARCHITECTS, INC.
30 W. ARRELLADA SANTA BARBARA, CA 93101
805/963.1728

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

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

KANDA ITOO
KANDA AND TSO ASSOCIATES
CONSULTING STRUCTURAL ENGINEERS
611 HOBSON STREET, No. 806
SOUTH PASADENA, CA 91300-3035
Tel: (626) 441-1111 Fax: (626) 441-1011

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

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

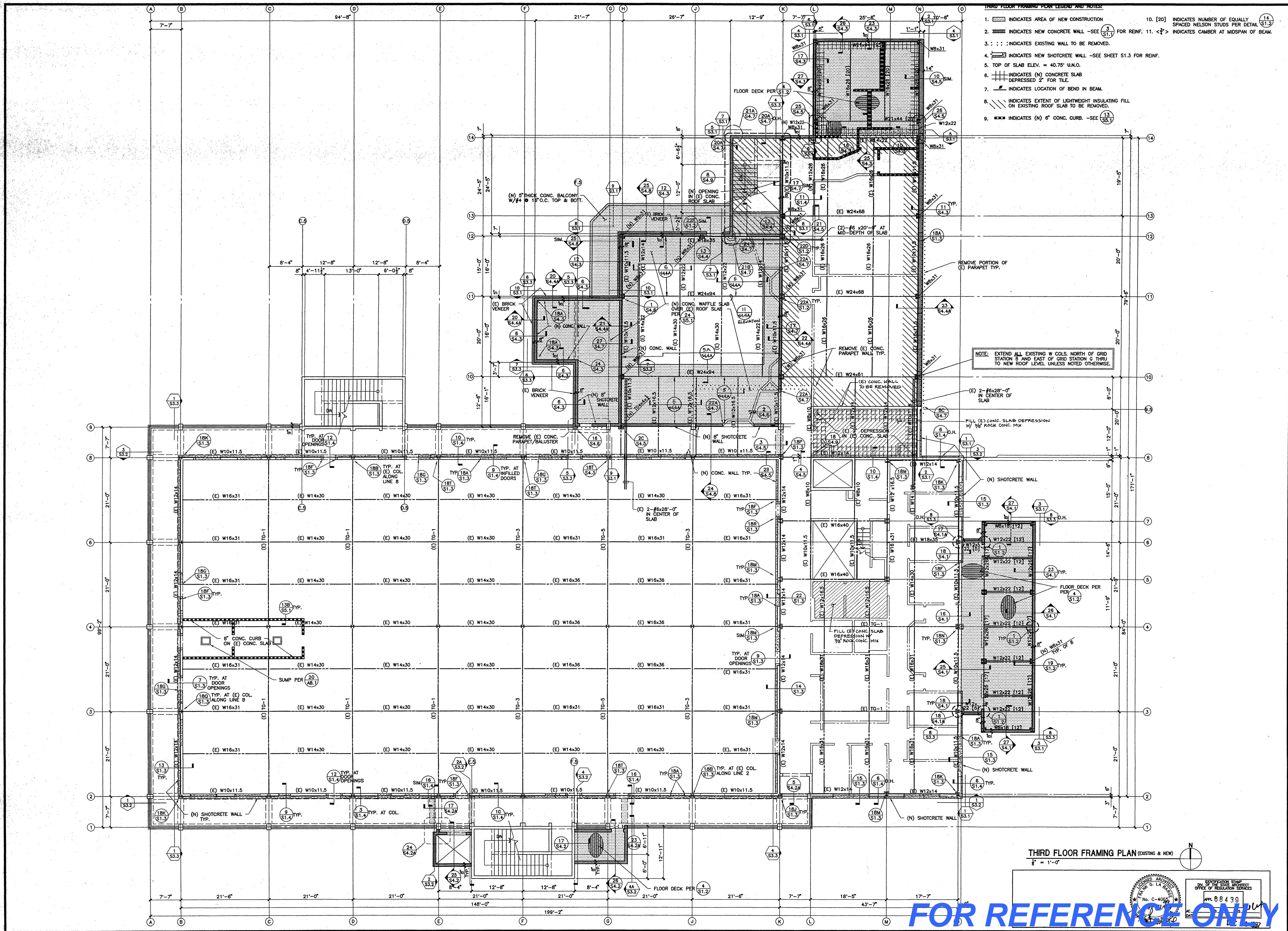
FOR
LONG BEACH COMMUNITY COLLEGE DISTRICT

4801 EAST CARBON STREET
LONG BEACH, CA 90806

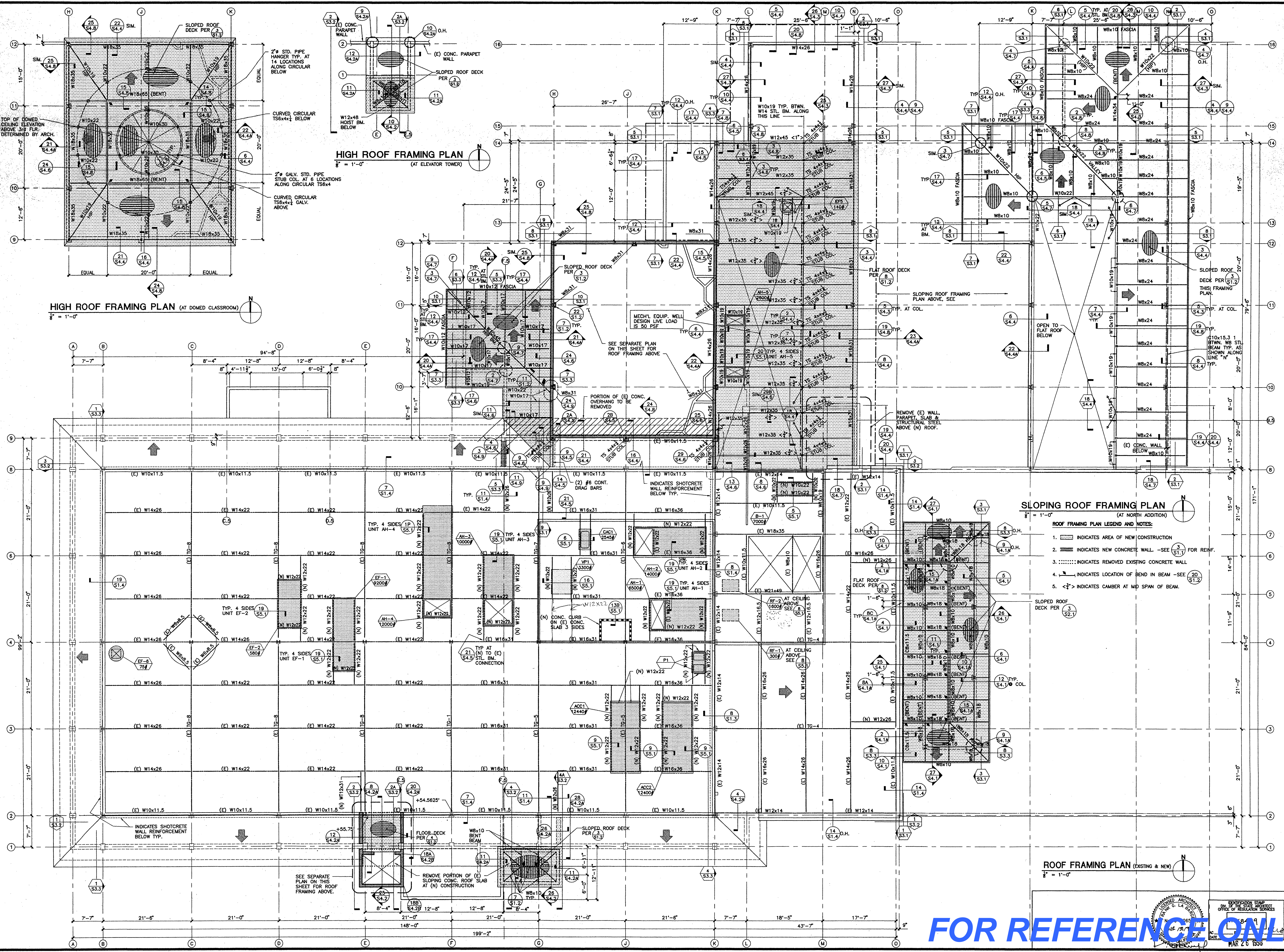
AS-BUILT

NO.	DESCRIPTION	DATE	BY

DRAWN	M. CLAGUE
CHECKED	M. KANDA
DATE	12/10/97
JOB NO.	93-42
SHEET TITLE	THIRD FLOOR FRAMING PLAN (EXISTING AND NEW)
SHEET	S2.3



FOR REFERENCE ONLY



KRUGER BENSEN ZIEMER ARCHITECTS, INC.
 30 W. ARROYO AVE. SANTA BARBARA, CA 93101
 805/963.5728

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

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

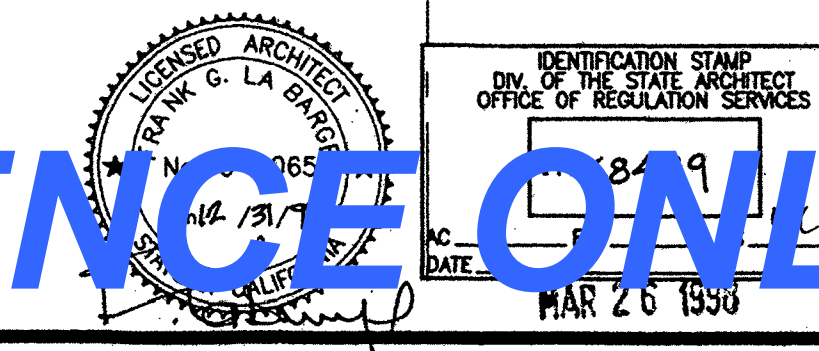
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NO.	DESCRIPTION	DATE	BY

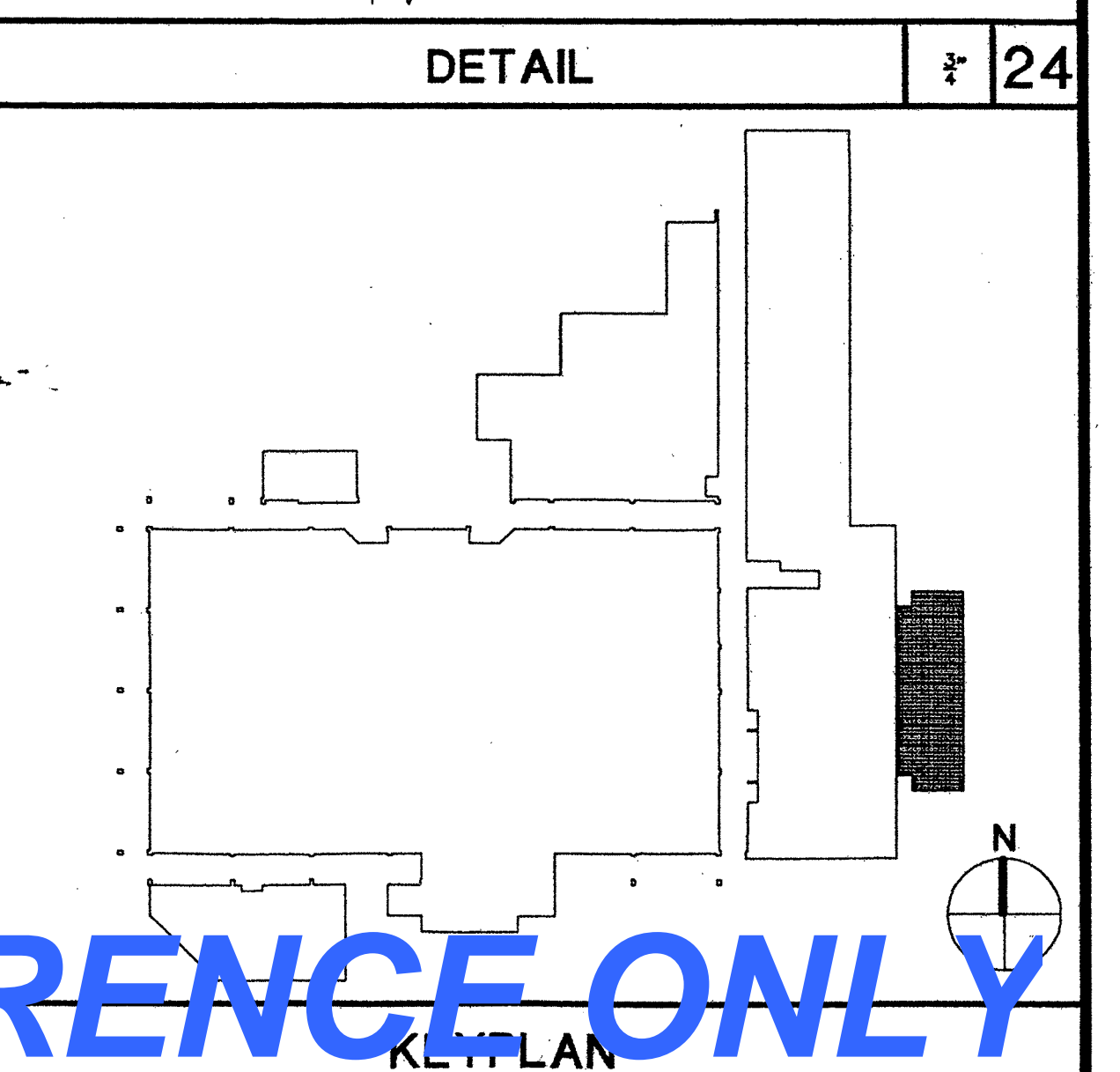
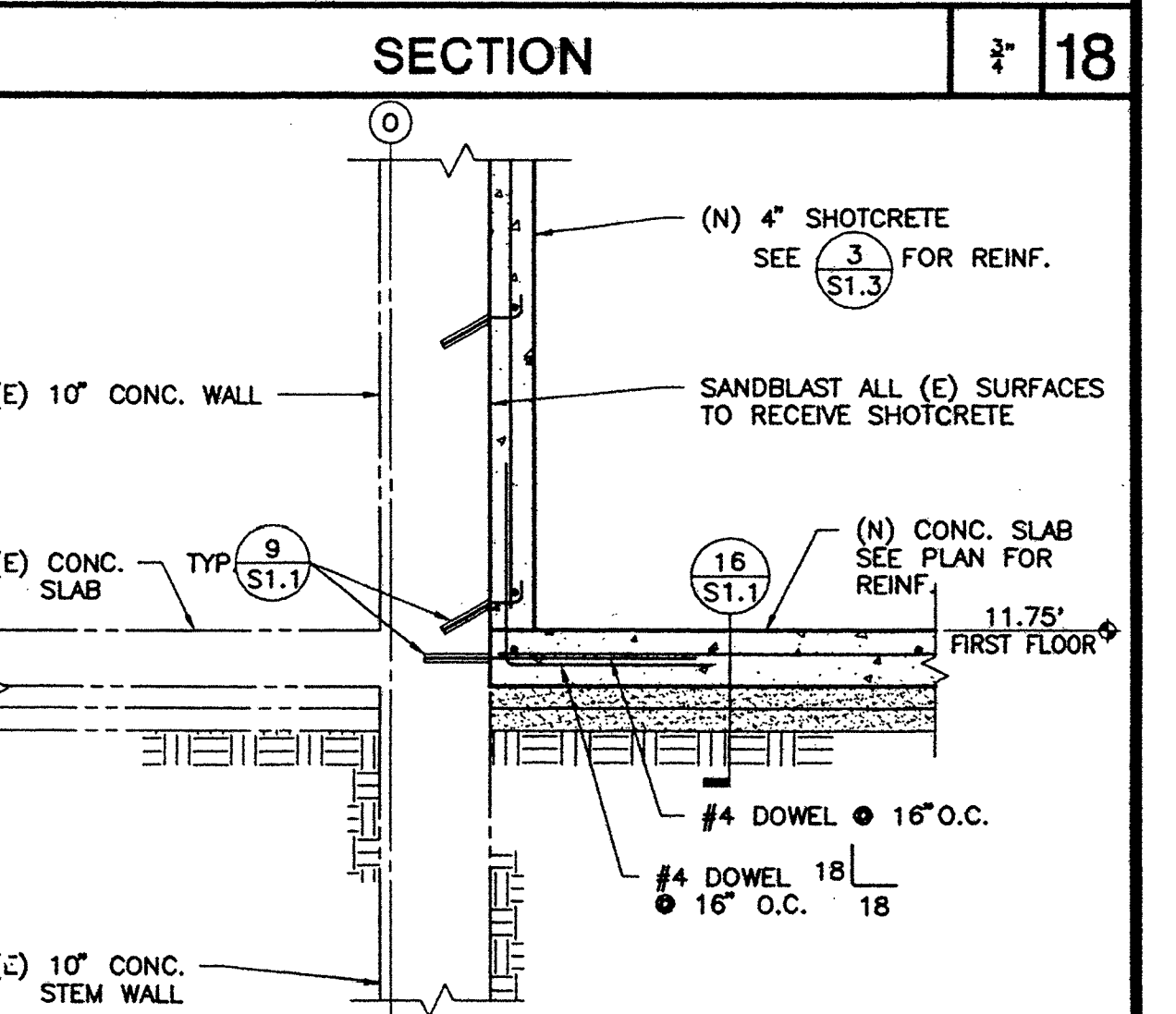
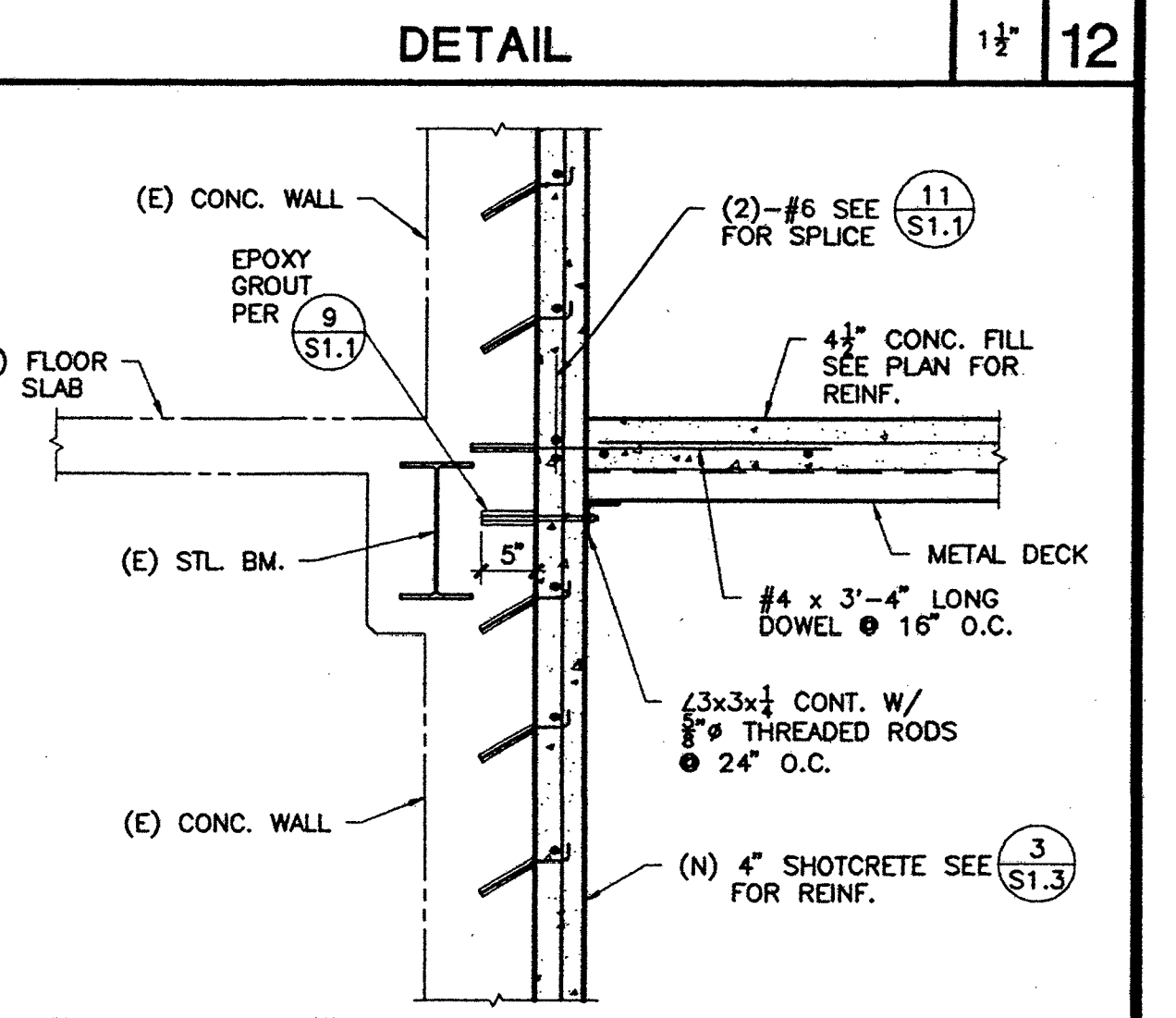
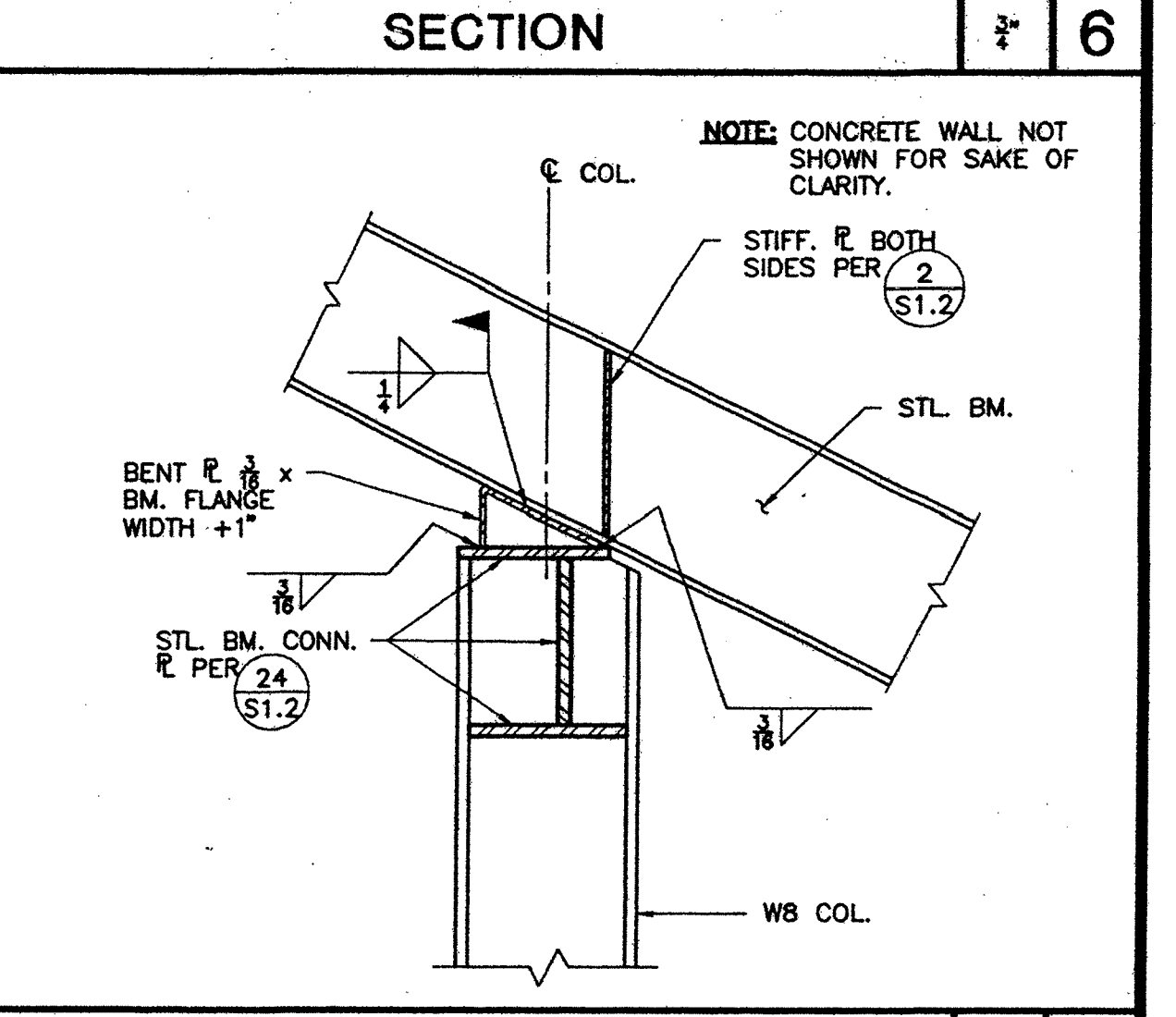
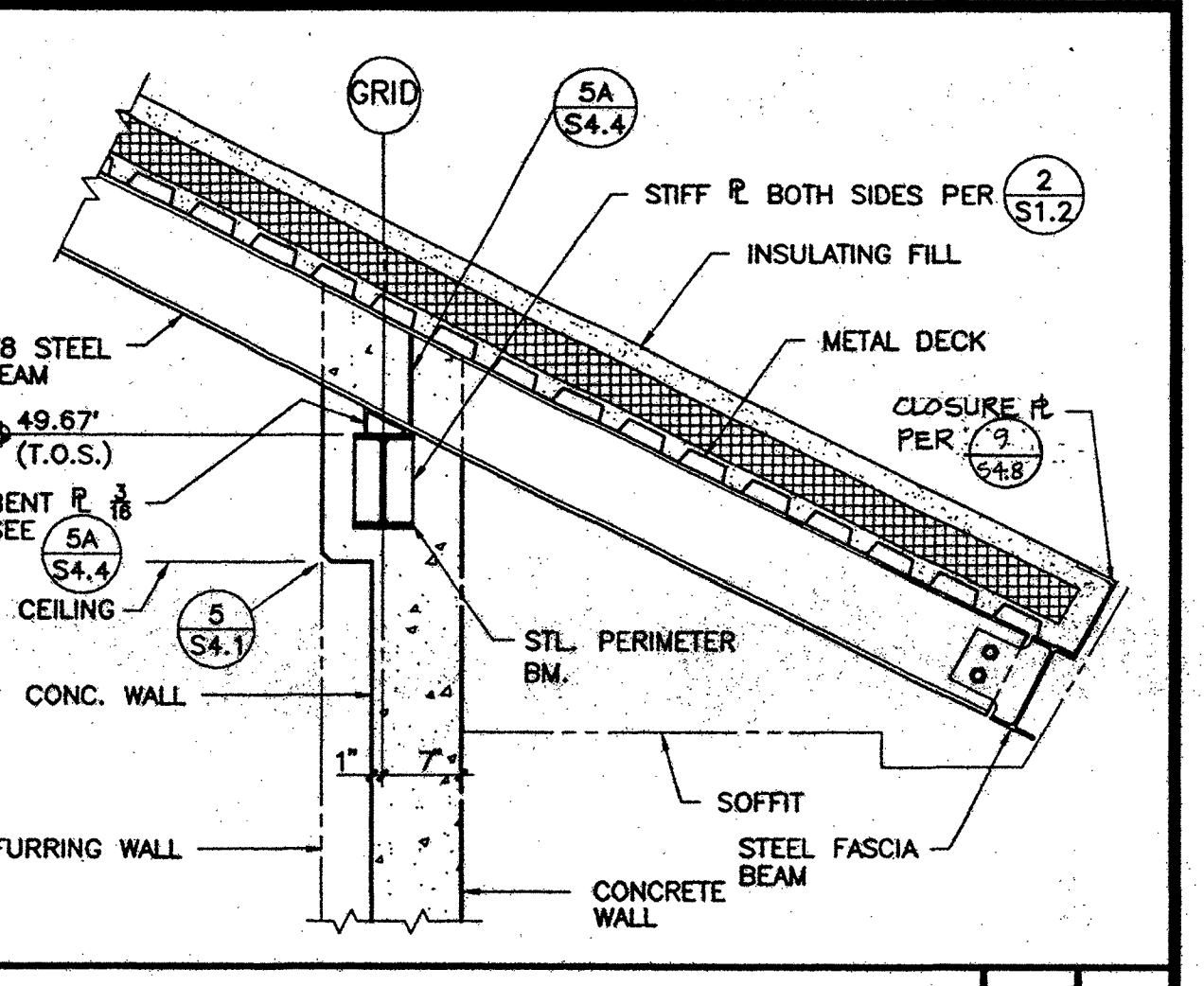
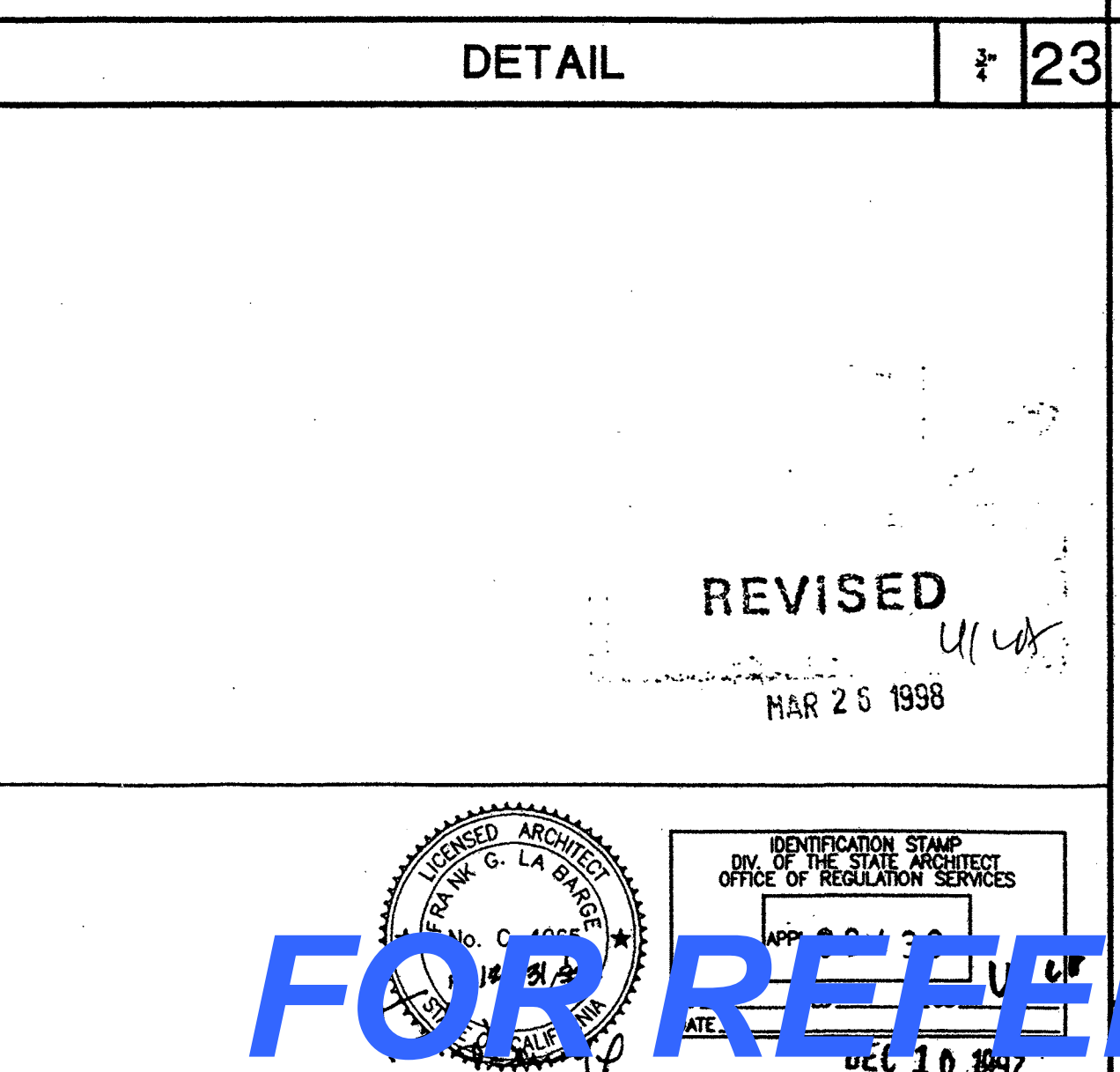
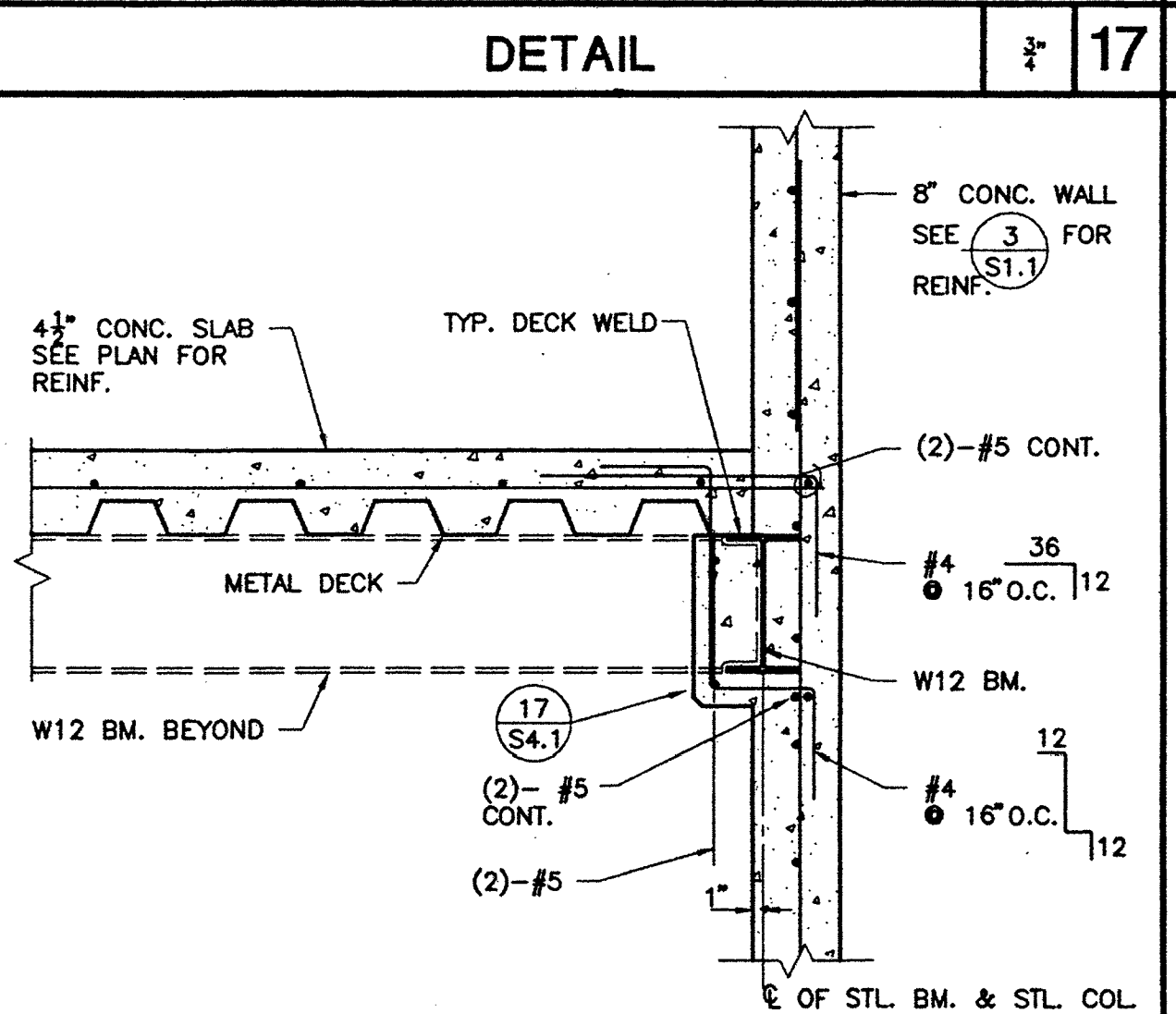
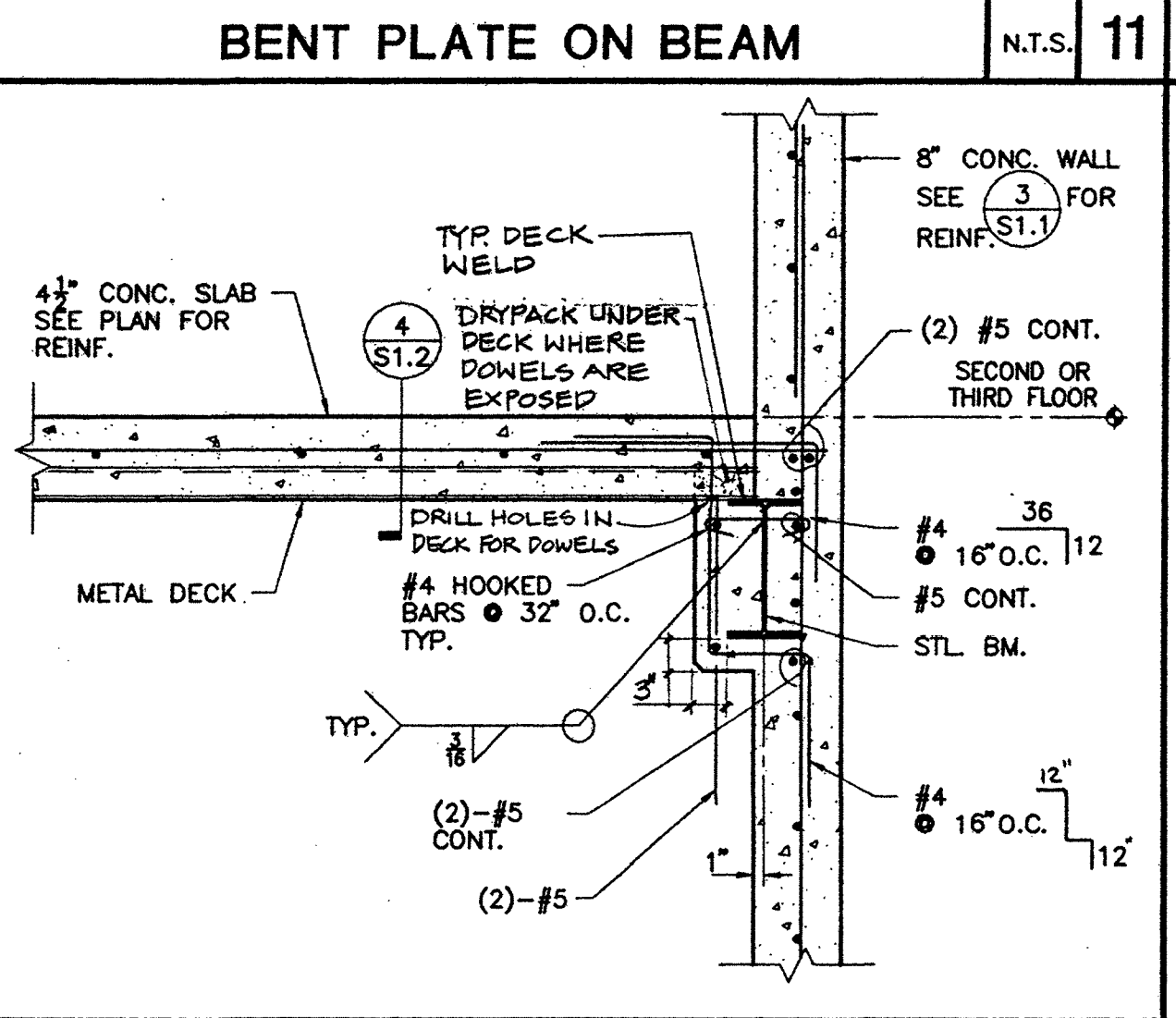
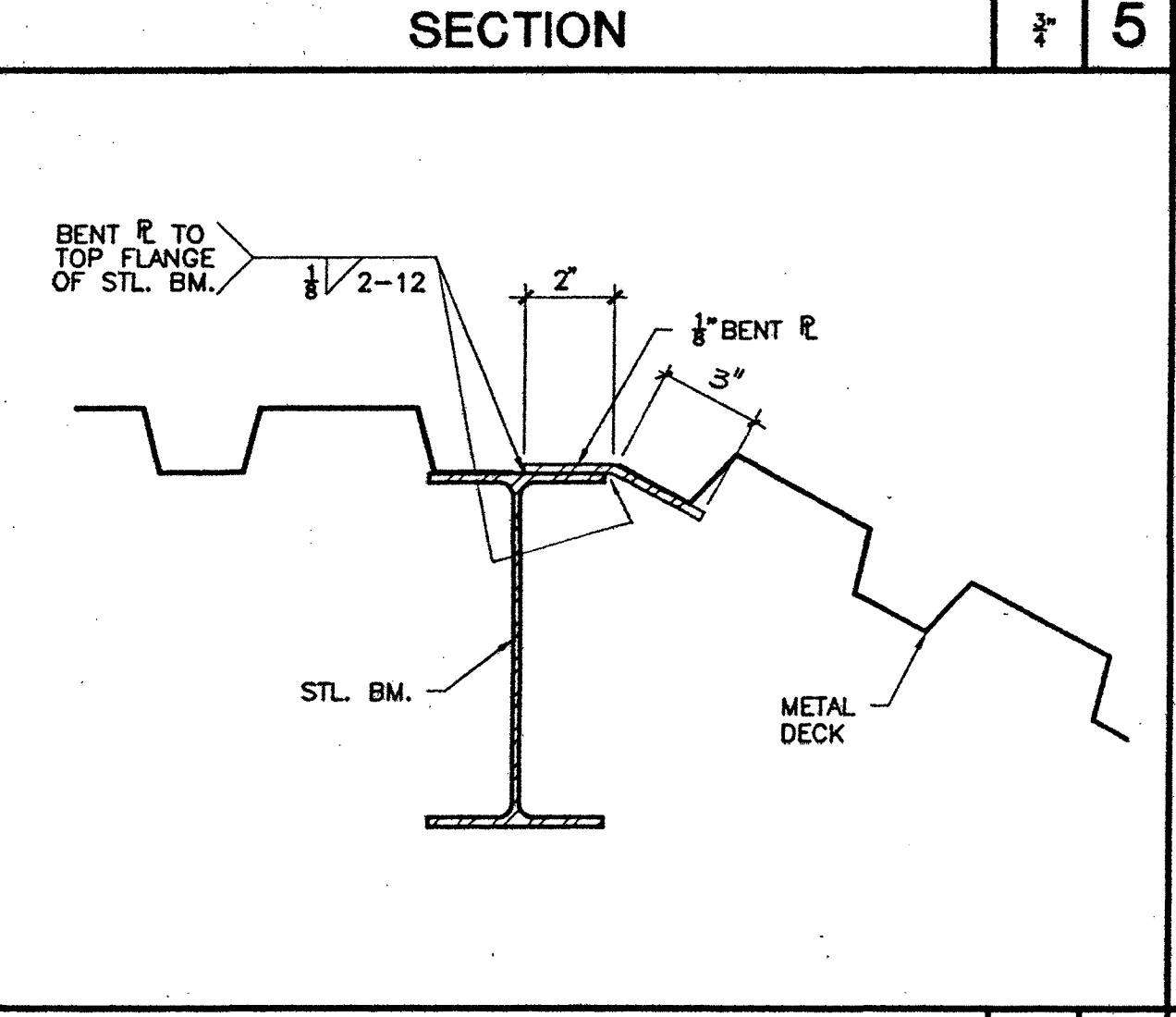
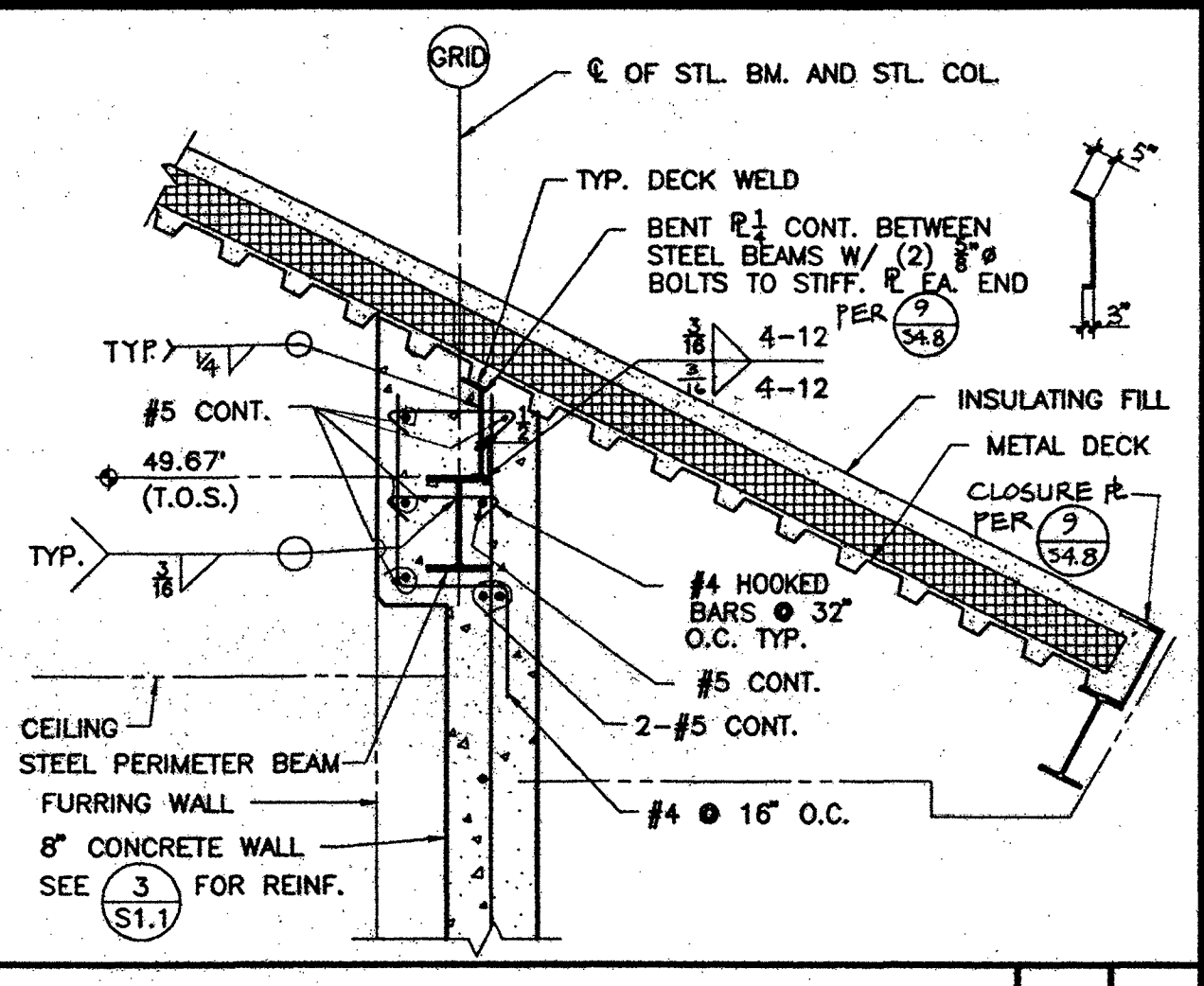
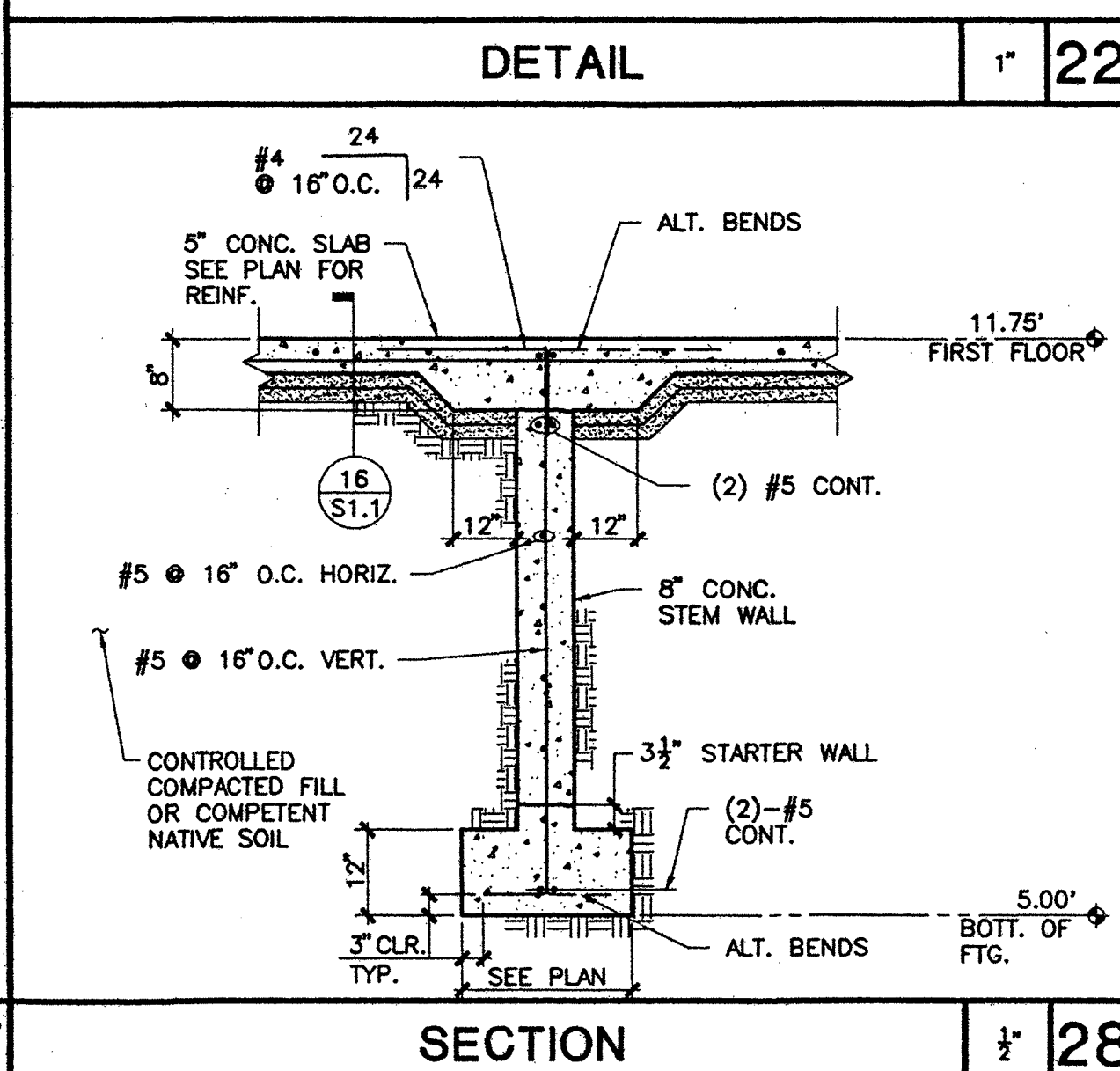
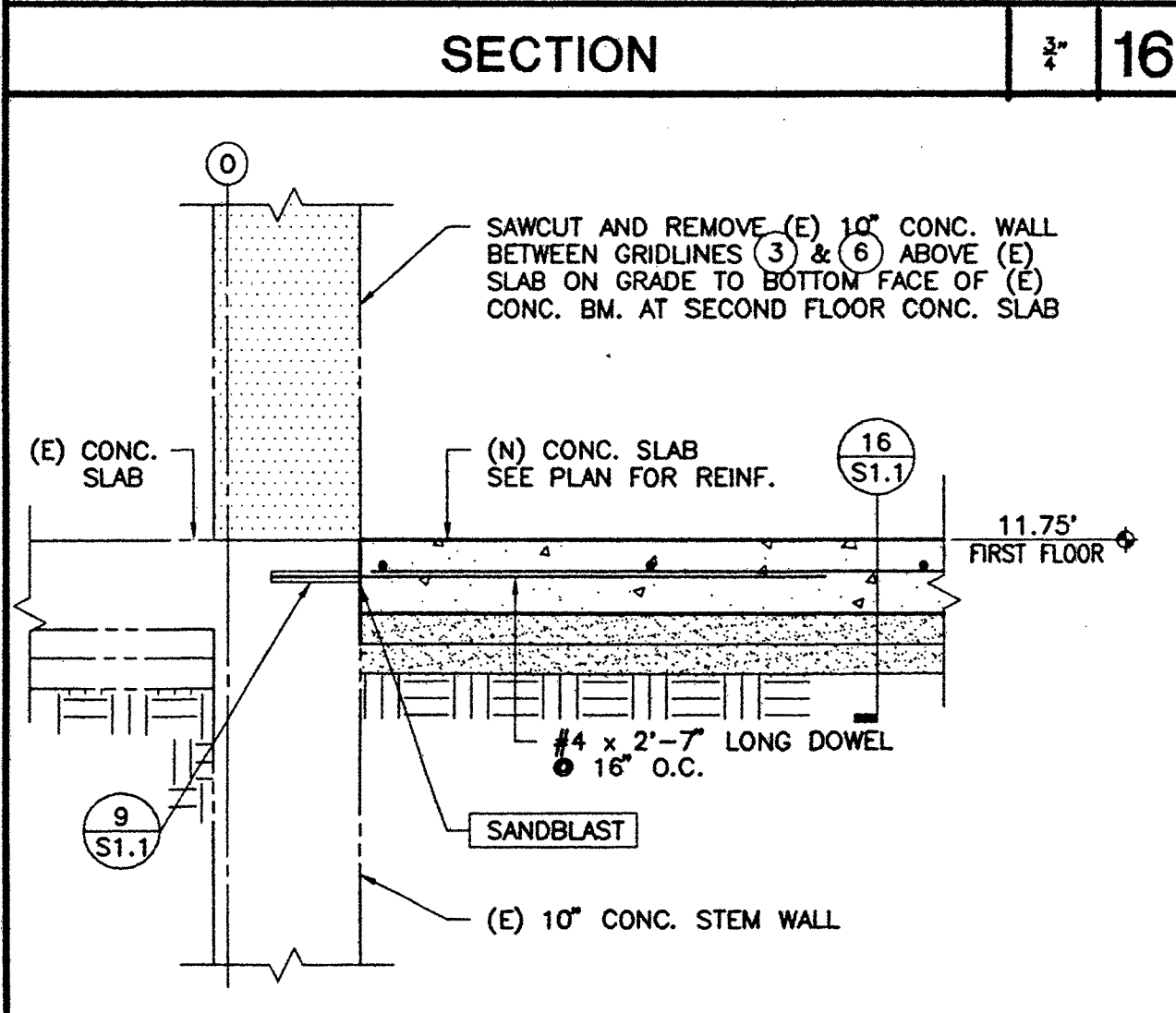
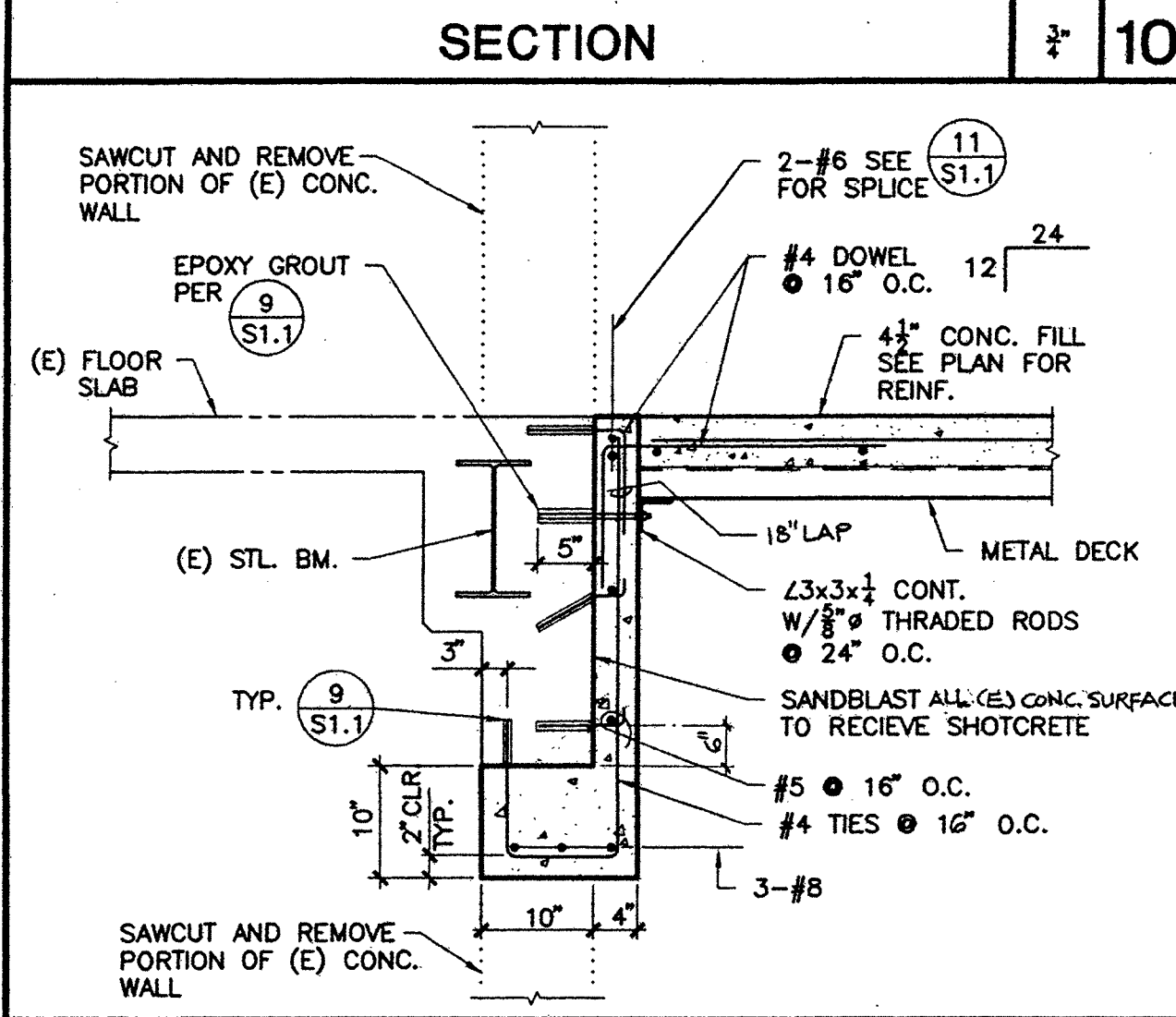
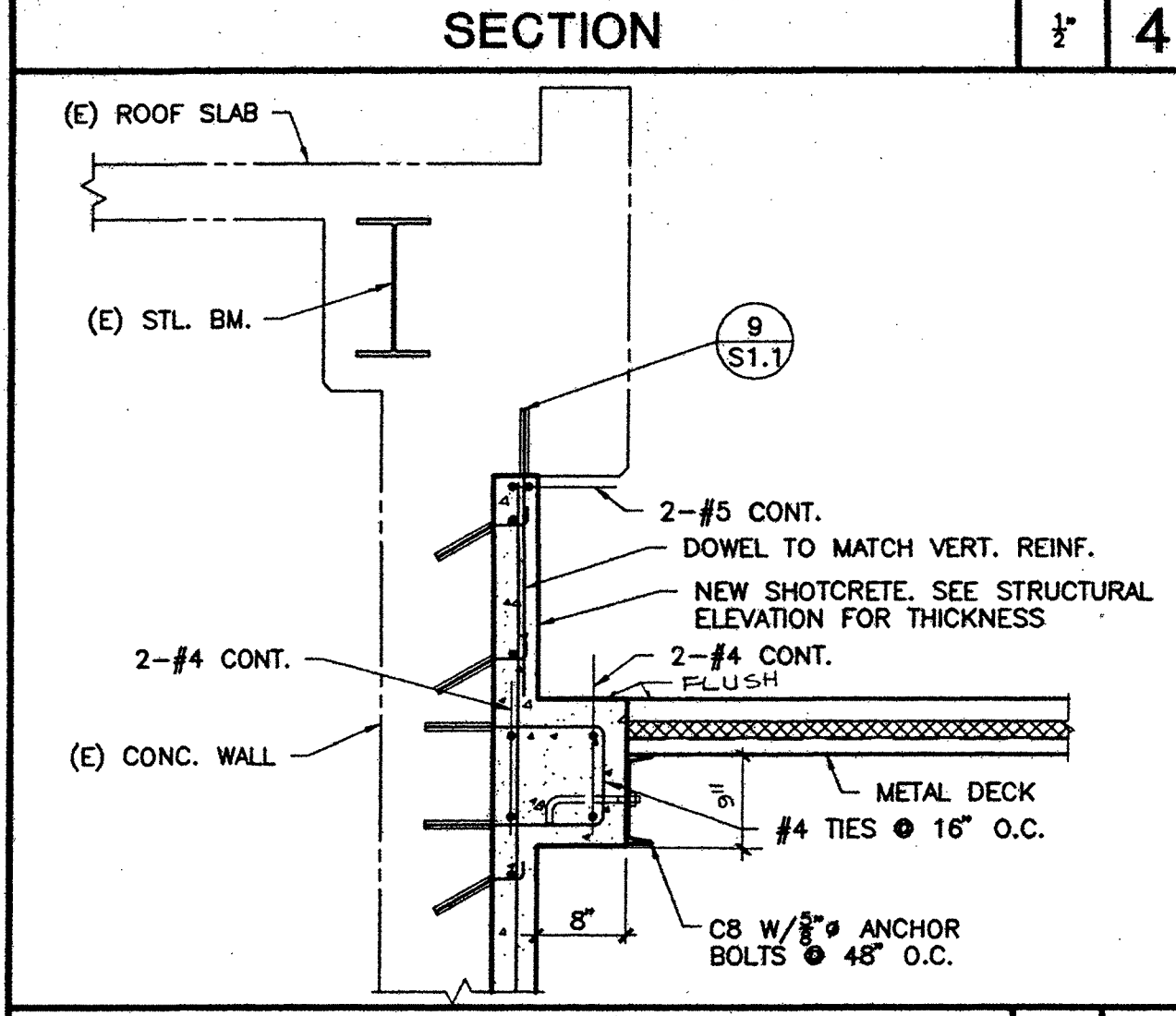
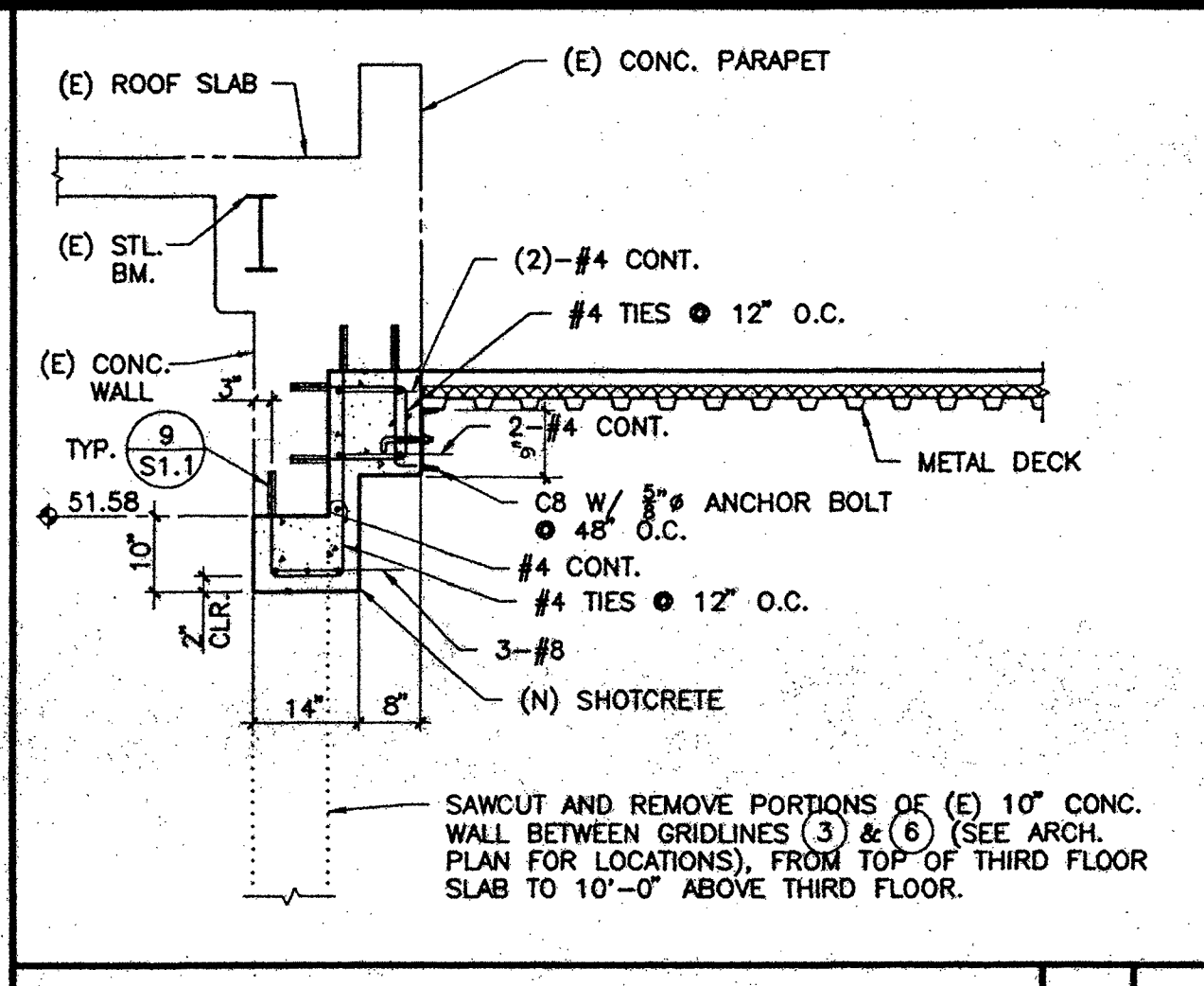
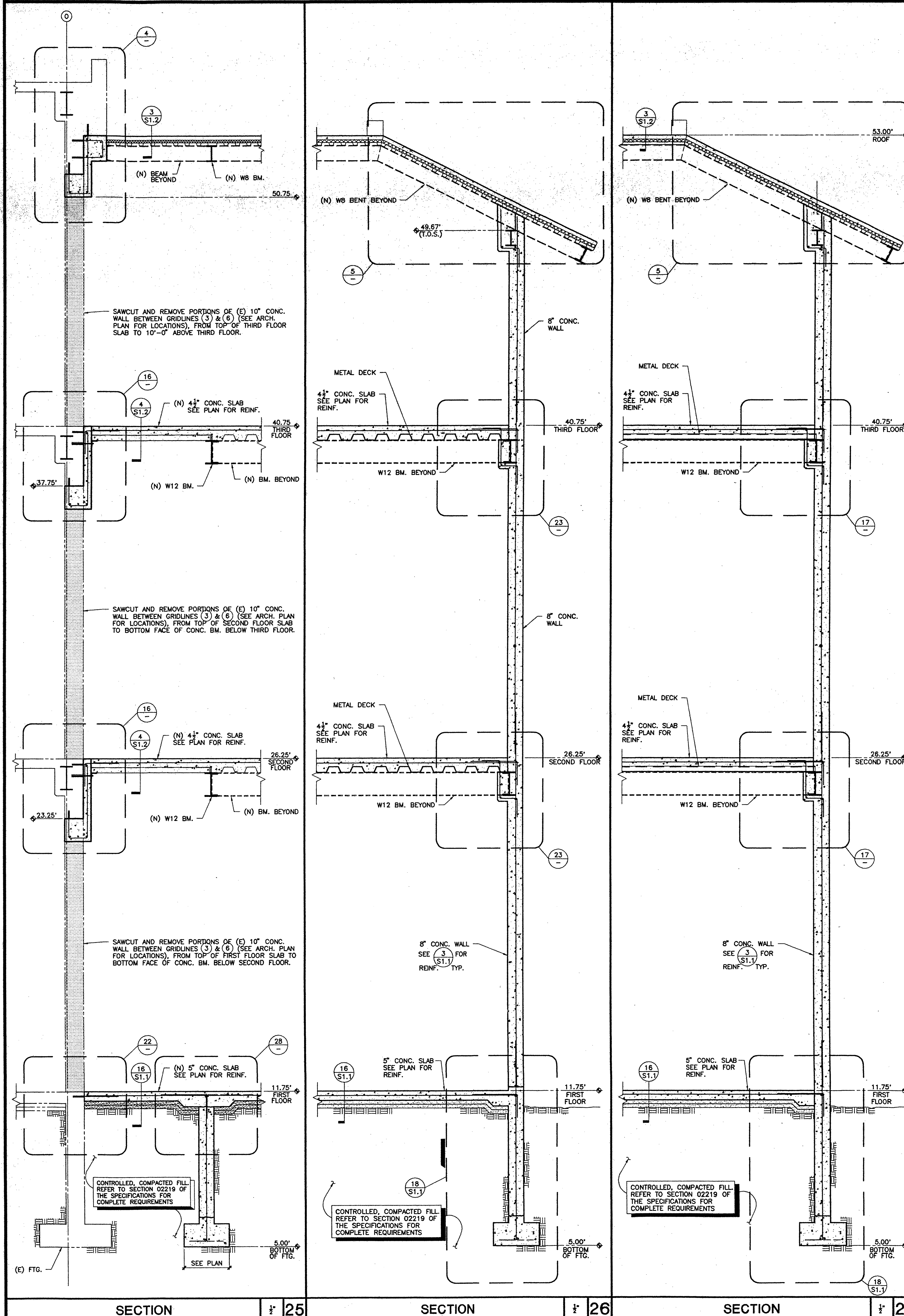
ROOF FRAMING PLAN (EXISTING AND NEW)

DRAWN	M. OLAGUE
CHECKED	M. KANDA
DATE	3/26/98
JOB NO.	63-42
SHEET TITLE	
SHEET	S2.4

FOR REFERENCE ONLY



9-26-98



KRUGER BENSEN ZIEMER ARCHITECTS, INC.
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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 90806

AS-BUILT

NO.	DESCRIPTION	DATE	BY
REVISION			

DRAWN: M. OLAGUE
CHECKED: M. KANDA
DATE: 3/26/90
JOB NO.: 93-42
SHEET TITLE: SECTIONS AND DETAILS AT EAST ADDITION
SHEET: S4.1

FOR REFERENCE ONLY

REVISED
MAR 25 1998

DEC 10 1997