



## Addendum No. 2

**Date:** March 5, 2021  
**Project:** Cajon Valley Union School District  
Bostonia Language Academy  
Modular Classroom Buildings Relocation  
1390 East Broadway  
El Cajon, CA 92021  
**Project No:** 2020-06795-000  
**DSA App. No:** 04-119479

### Notice to Bidders:

This Addendum describes additions to the scope of work that changes the Drawings and Specifications, forms a part of the Contract, and becomes part of the Contract Documents. All work affected by the following modifications shall conform with related provisions and General Conditions of the Contract and of the original Specifications and Drawings. The narrative provided herein is provided to assist in describing revisions to the Contract Documents but may not be inclusive of all revisions.

Acknowledge receipt of this Addendum No. 2 in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

### **Item 1: Bid Form**

Replace Bid Form (Pages 13-16 of bid documents) with attached Revised Bid Form (Addendum 2) to include Additive Alternates 1 and 2. Bidder must bid on all line items including Base Bid and Alternates or the bid will be non-responsive.

### **Item 2: Alternate Bids**

Revise Instructions to Bidders, Section 6, as follows:

#### **ALTERNATE BIDS**

If alternate bid items are called for in the Contract Documents, the lowest bid will be determined on the basis of the base bid ~~only~~ **plus all alternate bids**. However, the District may choose to award the contract on the basis of the base bid alone or the base bid and any alternate or combination of alternates. The time required for completion of the alternate bid items has been factored into the Contract duration and no additional Contract time will be awarded for any of the alternate bid items. The District may elect to include one or more of the alternate bid items, or to otherwise remove certain work from the Project scope of work, accordingly each Bidder must ensure that each bid item contains a proportionate share of profit, overhead and other costs or expenses which will be incurred by the Bidder.

## Addendum No. 2

### Item 3: Changes to the Drawings

EF-01: Revised audio/visual circuit information in rooms 49 & 50.

E6-21: Revised keynote #1. Revised fire alarm wiring designation chart. Revised fire alarm riser diagram. Revised speaker circuit load calculation chart.

Added reference sets:

A#04-51283

A#04-51190

A#04-66161 (PC 275)

### Item 4: Building Improvements

Interior Improvements:

1. Clean interior of each building, including removal of any existing ramp systems. Confirm items to be salvaged with District.
2. Demolish 9 LF of existing upper cabinets at Building RM 48. See Figure A below. Clean and patch wall to match existing finish. See item #7 below.
3. Protect existing ceiling grid in place. Replace all 2x4 ceiling tiles throughout. Product to be Armstrong, 24"x24"x $\frac{3}{4}$ " Ultima Beveled Tegular, 1951. NRC 0.60, Light Reflectance 0.90, color white.
4. Demolish 40 LF of interior walls at Building RM 46. See Figure B below. Patch floor and walls to match existing construction and finish. See item #5 and #7 below.
5. Remove existing flooring throughout and replace with carpet tile. Product to be 24"x24" Mannington Halftime Infinity Modular in Cobb color.
6. Provide walk-off mats at all exterior doors. Product to be Mannington Friction Force in Slide color 34368. See Figure C below for layout.
7. Remove any existing whiteboards, display board, posters, and/or other wall mounted accessories. Clean and prep wall surface. Install new  $\frac{1}{2}$ " thick vinyl tackboard panels on entirety of wall surfaces throughout over existing tackable wall surface. Product to be Koroseal Ceres Vinyl Tackboard Panels in Fog color B321-91. Coordinate with existing conduit, raceway, switches, and devices to remain. Extend all electrical boxes as needed, including receptacles and light switches. Reinstall any removed whiteboards at locations per District. Estimated 2-4 whiteboards per building.
8. Contractor to field verify and provide report on condition of existing mechanical equipment and devices, including registers, ducts, and thermostats. District to advise on replacement or repair.
9. Contractor to field verify existing lights are in good working condition. Submit report to District as required to determine any necessary replacement.
10. Remove existing window blinds throughout and provide new window mini-blinds. Product to be SWF Contract 1" Heavy-Duty Aluminum Mini-Blinds in True White 544 color. Provide separate cords for tilt and for raising and lowering blinds.
11. Prep and paint all interior trim, doors, and frames. District to provide colors. See Figure D below for Painting Schedule.

## Addendum No. 2

### Exterior Improvements:

12. Remove existing sheet metal gutters and downspouts. Provide new gutters and downspouts to match existing DSA pre-approved building drawings. Attached with Addendum #2 package for reference only.
13. Contractor to field verify condition of existing siding and provide report to District for evaluation. Remove and replace T111 siding and membrane to match existing as necessary. If membrane exists, lap new membrane minimum 12" beyond edge of undamaged existing membrane. Estimated at 1,000 SF of total wall area. See Alternate NO. 1 on revised Bid form.
14. Reinstall loose batt insulation below floors as required. Replace any missing or damaged insulation to match existing. Estimated at 1,000 SF of total floor area. See Alternate NO. 2 on revised Bid form.
15. Remove metal security grille at windows of Building RM 48. Patch window trim and prep prior to painting.
16. Prep and paint entire exterior to match adjacent buildings, including doors, frame, trim, siding, eave, fascia, equipment, and miscellaneous metal. District to provide colors. See Figure D below for Painting Schedule.

### General Notes:

1. Contractor to submit all samples, product data, mock-ups, and shop drawings prior to work, as requested by District and Architect.
2. If any product is unavailable or Contractor requests to submit an alternative, Contractor to provide full submittal. Architect and District to determine if equal to specified product.
3. Follow all applicable manufacturer installation instructions and recommendations, including prep, paint primer, underlayment, adhesives, and fastening.
4. Materials, products, and install to match existing construction and finish where replacement is required unless otherwise noted above.

## Addendum No. 2

Figure A: Upper Cabinets to be Demolished



Figure B: Interiors Walls to be Demolished





## Addendum No. 2

Figure C: Walk-Off Mat

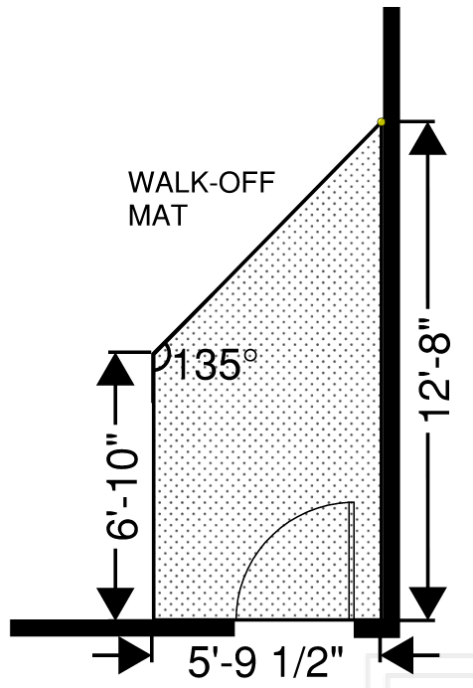


Figure D: Painting Schedule

SURFACE	DUNN-EDWARDS PAINTS
Exterior Wood & Plaster Walls	Evershield Eggshell
Gravel Stops and Wood Fascia	Aristoshield Semi- Gloss
Doors	Aristoshield Semi- Gloss
Door Jambs	Aristoshield Semi- Gloss
Window Trim	Aristoshield Semi- Gloss
Metal Handrails, Columns, Gutters, and Downspouts	Aristoshield Semi- Gloss
Interior Walls	Suprema Eggshell
Wooden Casework	Suprema Semi-gloss
Acoustic Ceiling Tile	Acoustikote
Wood Surface Primer	Ultra-grip Primer

## Addendum No. 2

### Pre-Bid Questions:

Question 1: In regards to the steel ramps; are these prefabricated ramps from TMI Services that only need to be installed, or do the ramps need to be fabricated as well?

Response 1: Ramps are to be prefabricated by TMP services per DSA pre-approved ramp drawings in set. Contractor to coordinate work with ramp fabricator and provide installation.

Question 2: Is there a predetermined route for relocating the existing buildings from the play yard to their final location?

Response 2: No. This is means and methods by Contractor. Coordinate route and schedule with District.

Question 3: What are the required improvements if any to the exterior and interior of the buildings given their current condition?

Response 3: See Item 3 Building Improvements in Addendum 2.

Question 4: There are some issues with the existing Fire Alarm system at this site.

- A. The existing system has many troubles that are related to the devices, cabling and control boards.
- B. The existing system is not capable of installing a new fire alarm panel without replacing the existing devices throughout the site.
- C. The new devices that are CSFM approved, are not compatible with the existing discontinued panel and devices.
- D. Fire Vac system on the symbols list, has been discontinued.

Response 4: Build per DSA approved plans.

**End of Addendum No. 2**

## **REVISED BID FORM (Addendum 2)**

To be returned with bid documents:

LEGAL NAME OF BIDDER: \_\_\_\_\_

Business Name: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Business Address: \_\_\_\_\_

\_\_\_\_\_

Phone Number: (\_\_\_\_\_) \_\_\_\_\_

FAX: (\_\_\_\_\_) \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Company Website: \_\_\_\_\_

**Check if Credit Card payment is accepted for no additional charge:**

Vendor accepts: \_\_\_\_\_ Visa \_\_\_\_\_ American Express

The undersigned, hereby declare that we have carefully examined the location of the proposed Work, and have read and examined the Contract Documents, including all plans, specifications, and all addenda, if any, for the following Project:

**REQUEST FOR BID NO. 1551  
RELOCATABLE CLASSROOM MOVES  
BOSTONIA LANGUAGE ACADEMY**

We hereby propose to furnish all labor, materials, equipment, tools, transportation, and services, and to discharge all duties and obligations necessary and required to perform and complete the Project for the following bid prices:

<b>BASE BID</b>	<b>BID PRICE (IN WRITTEN FORM)</b> Said Sum includes all applicable taxes and costs	<b>BID PRICE (IN NUMBERS)</b> Said Sum includes all applicable taxes and costs
<u><b>BASE BID</b></u>  <b>Bostonia Language Academy</b> 1390 Broadway El Cajon, CA 92021		\$ _____
<u><b>ALLOWANCE</b></u> *Owner Allowance for unforeseen conditions	Thirty-five thousand dollars and zero cents	<u>\$35,000.00</u>
<u><b>TOTAL BASE BID</b></u> (Base Bid plus Allowance)		\$ _____
<p><b>*The allowance is to be added to the contractor's base bid amount for Base Bid. All work performed under the allowance shall be directed by the District. The Contractor shall be responsible to document all costs incurred and provide all required documentation to the District within 60 days of execution of work, and prior to billing for said work. Each allowance shall be listed as a line item on the Contractor's Schedule of Values. A deductive change order will be prepared for any portion of allowances not used.</b></p>		

The Owner reserves the right to reject any or all bids, or to waive any irregularities or ities in any bids or in the bidding. The award of the contract, if made by the Owner, will be to the lowest responsive, responsible bidder therefore. **The lowest bid will be determined on the basis of the TOTAL BASE BID plus All Alternate Bids.** However, the District may choose to award the contract for the Total Base Bid alone or the Total Base Bid and any alternate or combination of alternates, at the District's sole option. **Bidder must bid on all line items including Base Bid and Alternate(s) or the bid will be non-responsive.**

ALTERNATE BIDS	Unit Price	Estimated Quantity	<b>BID PRICE</b> <b>(IN NUMBERS)</b> Said Sum includes all applicable taxes and costs
<b>ALTERNATE NO. 1</b>  Replacement of dry rot damaged T111 siding – Square footage costs to replace one full sheet T111 siding to match existing as needed.  (Total Bid Price will be calculated based on Unit Cost x 1,000 sq ft. Actual quantities are unknown. Awarded contractor will be paid for or will provide a credit for actual quantities based on unit price)  <u>  X  </u> Add <u>  </u> DEDUCT	\$_____ per square foot	1,000 sq ft	Total Price for 1,000 sq ft  \$_____
<b>ALTERNATE NO. 2</b>  Replacement of damaged or missing floor insulation – Square footage costs to provide and install insulation as needed  (Total Bid Price will be calculated based on Unit Cost x 1,000 sq ft. Actual quantities are unknown. Awarded contractor will be paid for or will provide a credit for actual quantities based on unit price)  <u>  X  </u> Add <u>  </u> DEDUCT	\$_____ per square foot	1,000 sq ft	Total Price for 1,000 sq ft  \$_____

In case of discrepancy between the written price and the numerical price, the written price shall prevail.

The undersigned agrees that this Bid Form constitutes a firm offer to the District which cannot be withdrawn for the number of calendar days indicated in the Notice Inviting Bids from and after the bid opening, or until a Contract for the Work is fully executed by the District and a third party, whichever is earlier.

The Contract duration shall commence on the date stated in the District's Notice to Proceed, and shall be completed by the Contractor in the time specified in the Contract Documents. In no case shall the Contractor commence construction prior to the date stated in the District's Notice to Proceed.

Bidder certifies that it is licensed in accordance with the law providing for the registration of Contractors,

License No. \_\_\_\_\_, Expiration Date \_\_\_\_\_, class of license \_\_\_\_\_. If the bidder is a joint venture, each member of the joint venture must include the above information.

List all other classifications for this license number

\_\_\_\_\_  
Bidder is to indicate if they are a Certified DVBE Contractor (Attached is a copy of DVBE Certification Letter issued by OSBCR, if applicable).

\_\_\_\_\_ Yes \_\_\_\_\_ No

Bidder is to indicate if a Good Faith Effort was made to include DVBE Subcontractors and suppliers in the Bid (Indicating "No" does not disqualify the bid):

\_\_\_\_\_ Yes \_\_\_\_\_ No

The undersigned acknowledges receipt, understanding and full consideration of the following addenda to the Contract Documents.

Addenda No. \_\_\_\_\_

Addenda No. \_\_\_\_\_

Addenda No. \_\_\_\_\_

Addenda No. \_\_\_\_\_

1. The required Certification Of Contractor And Subcontractor Division Of Industrial Relations Registration form is attached hereto or bidder's bid will be rejected as nonresponsive.
2. The required Contractor's Certificate Regarding Workers' Compensation is attached hereto or bidder's bid will be rejected as nonresponsive.
3. The required bid security in the amount of not less than 10% of the Total Bid Price is attached hereto or bidder's bid will be rejected as nonresponsive.
4. The required Designation of Subcontractors is attached hereto or bidder's bid will be rejected as nonresponsive.

5. The Information of Bidders (List of Current Projects & List of Completed Projects) is attached hereto.
6. The required Asbestos-Free Materials Certification is attached hereto or bidder's bid will be rejected as nonresponsive.
7. The required Recycled Content Certification is attached hereto or bidder's bid will be rejected as nonresponsive.
8. ~~The required Fingerprinting Requirement Certification is attached hereto or bidder's bid will be rejected as nonresponsive.~~ (not required for this project)
9. The required Contractors Statement Regarding Maintaining a Drug Free Workplace is attached hereto or bidder's bid will be rejected as nonresponsive.
10. The required Non-Collusion Declaration is attached hereto or bidder's bid will be rejected as nonresponsive.
11. The required Iran Contracting Act form is attached hereto if bidder's bid total is \$1 million or more.

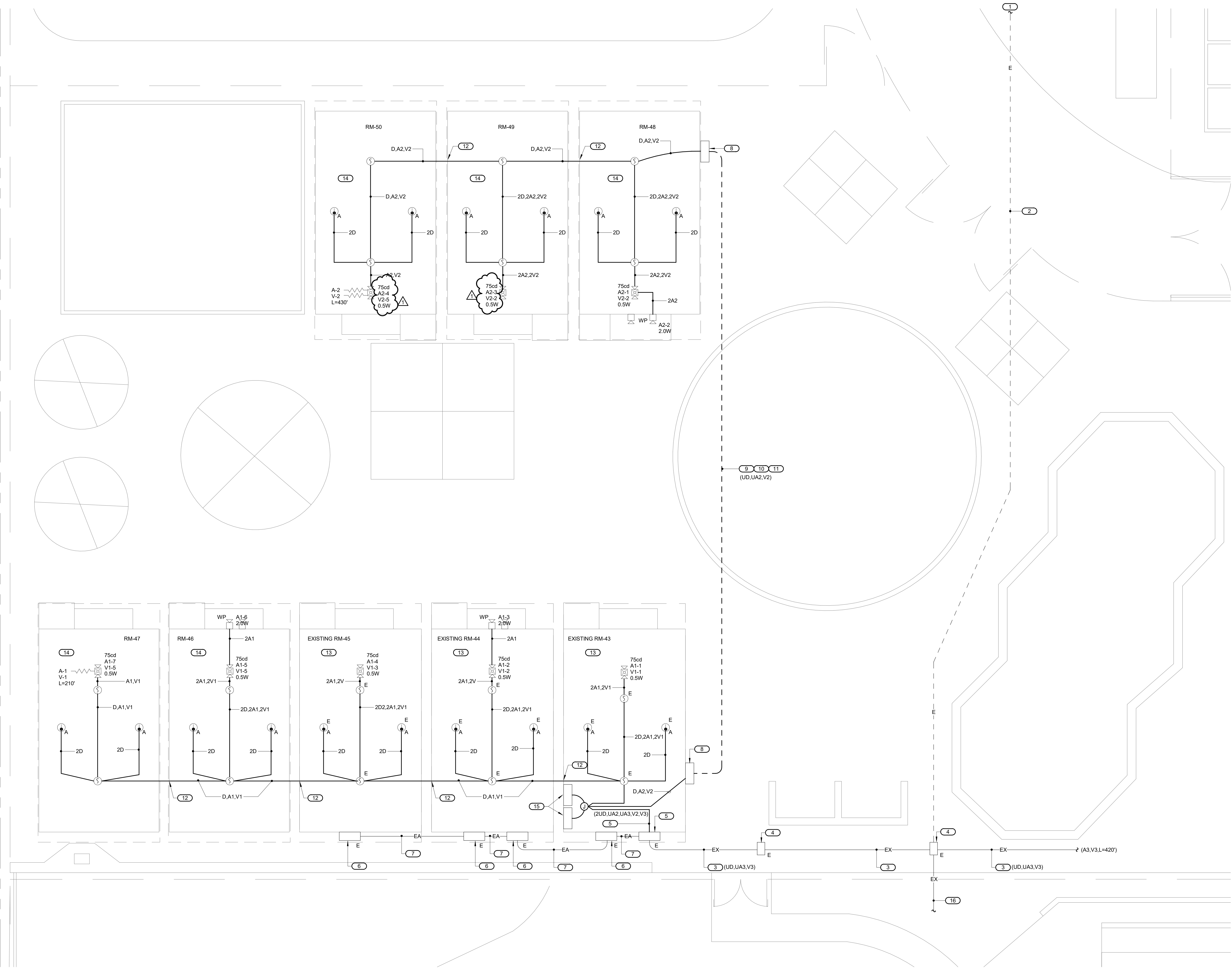
I hereby certify under penalty of perjury under the laws of the State of California, that all of the information submitted in connection with this Bid and all of the representations made herein are true and correct.

**Business Name of Bidder** \_\_\_\_\_

**Authorized Signature** \_\_\_\_\_

**Name and Title** \_\_\_\_\_

**Dated**



KEY NOTES # (X)

1. REFER TO ES-03 FOR CONTINUATION.
2. EXISTING FIRE ALARM CONDUIT WITH FIRE ALARM WIRING TO REMAIN.
3. PULL OUT EXISTING FIRE ALARM WIRING AND PULL NEW WET LOCATION LISTED FIRE ALARM WIRING IN EXISTING UNDERGROUND CONDUIT. FOR PRE- SCHOOL PORTABLE.
4. EXISTING FIRE ALARM PULLBOX TO REMAIN. CLEAN DEBRIS FROM PULLBOX.
5. EXISTING BUILDING MOUNTED FIRE ALARM PULLBOX. RUN 1 1/2" CONDUIT WITH FIRE ALARM CABLES ON EXTERIOR WALL AND IN CEILING SPACE TO NEW VOICE EVAC PANEL/AMP-43.
6. EXISTING BUILDING MOUNTED FIRE ALARM PULLBOX.
7. REMOVE FIRE ALARM WIRING FROM EXISTING CONDUIT UP TO EXISTING FIRE ALARM DEVICES.
8. NEAM-3R 12"X12"X6" BUILDING MOUNTED FIRE ALARM PULLBOX. MOUNT ABOVE T-BAR CEILING LINE.
9. RUN 1 1/2" CONDUIT WITH FIRE ALARM WIRING UNDERGROUND.
10. REPAIR PLAY AREA AFTER INSTALLTION OF FIRE ALARM CONDUIT.
11. SAW CUT AND PATCH EXISTING ASPHALT TO RUN UNDERGROUND CONDUIT.
12. PRPOVIDE 1" SEAL TIGHT STEEL FLEX CONDYUT BETWEEN TWO PORTABLES. PER DETAIL #9 ON ES-21.
13. REMOVE EXISTING FIRE CEILING MOUTED HORN, WALL MOUNTED STROBE AND EXTERIOR HORN FROM PORTABLE AND RE-WIRE FIRE ALARM SYSTEM FOR EXISTING PORTABLE. PROVIDE BLANK COVER OVER WALL MOUNTED DEVICE AND REPLACE CEILING TILES. REF-WIRE EXISTING SMOKE AND ATTIC HEAT DETECTORS.
14. REMOVE EXISTING FIRE ALARM DEVICES FROM EXISTING PORTABLES AND PROVIDE NEW DEVICES AS SHOWN. PROVIDE BLANK COVER OVER WALL MOUNTED DEVICES AND REPLACE CEILING TITLE AS REQUIRED.
15. WALL MOUNTED VOICE EVAC PANEL & AMP-43. MOUNT 6" BELOW CEILING. RUN (3) 1" CONDUITS WITH WIRING CONCEALED IN WALL TO CEILING. REFER TO DETAIL #7 ON ES-21 FOR MOUNTING.
16. PULLOUT EXISTING FIRE ALARM WIRING FOR PORTABLES-43,44,45 & PRESCHOOL FROM EXISTING POWER SUPPLY LOCATION IN EXISTING PORTABLE. PER FIELD CONDITION.



BOSTONIA  
LANGUAGE  
ACADEMY

1390 East Broadway  
El Cajon, CA 92021

Modular  
Classroom  
Buildings  
Relocation

Date	Issued For
08/14/2020	Design Development
08/17/2020	100% CD
11/06/2020	DSA BACKCHECK
11/19/2020	DSA BACKCHECK
03/04/2021	ADDENDUM NO. 1

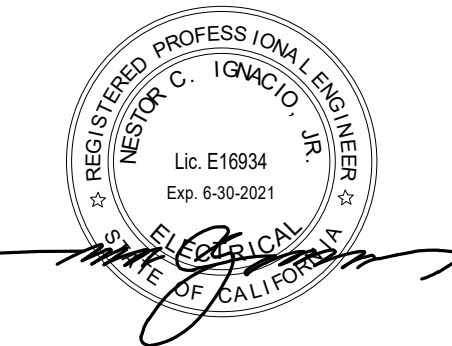


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225 Broadway  
Suite 1300  
San Diego, California  
92101 USA

(619) 318-3800  
WWW.HED.DESIGN



FIRE ALARM  
FLOOR PLAN

















BATTERY CALCULATION FOR FIRE ALARM CONTROL PANEL AND REMOTE POWER SUPPLIES								
DESCRIPTION	(E) FACP				RPS-43			
	SUPERVISORY CURRENT		ALARM CURRENT		SUPERVISORY CURRENT		ALARM CURRENT	
	QTY	UNIT	TOTAL	UNIT	TOTAL	QTY	UNIT	TOTAL
(E) FACP AND DEVICES	1	0.279	0.279	6.75	6.75			
REMOTE POWER SUPPLY	1	0.00000	0.00000		0.00000	1	0.07500	0.07500    0.17500    0.17500
SMOKE DETECTOR	10	0.00030	0.003	0.0050	0.065			
(N) ATTIC HEAT DETECTOR	10	0.00035	0.003	0.0050	0.065			
CONTROL MODULE	2	0.00375	0.0075	0.0050	0.013			
MONITOR MODULE	0	-	-	+	-			
STROBE (15cd)						2		0.06000    0.132
STROBE (30cd)						0		0.09400    0.00000
STROBE (75cd)						0		0.15800    0.00000
STROBE (110cd)						0		0.20200    0.00000
SPEAKER/STROBE COMBO (15cd)						0		0.066    0.00000
SPEAKER/STROBE COMBO (30cd)						0		0.094    0.00000
SPEAKER/STROBE COMBO (75cd)						9		0.158    1.422
SPEAKER/STROBE COMBO (110cd)						0		0.21200    0.00000
SPEAKER - WEATHERPROOF						0		0.06900    0.00000
TOTAL			0.293		6.89		0.075	0.1729 A 0.43 AH ALARM 0.43 AH
FIRE ALARM DEVICE QUANTITIES ARE SHOWN SOLELY FOR ENGINEERING CALCULATIONS. IT SHALL NOT BE USED FOR BID QUANTITY TAKEOFFS.			0.293 A <u>x 24 H</u> 7.02 AH		6.89 A <u>x .025 H</u> 1.72 AH		0.075 A <u>x 24 H</u> 1.800 AH	1.729 A <u>x .025 H</u> 0.43 AH
				7.02 AH STANDBY			1.800 AH STANDBY	
				1.72 AH ALARM			0.43 AH ALARM	
				8.74 AH SUB TOTAL			2.23 AH SUB TOTAL	
				10.49AH (W/20% SAFETY MARGIN)			27 AH (W/20% SAFETY MARGIN)	
				24 AH BATTERY CAPACITY			7 AH BATTERY CAPACITY	
				13.51 AH SPARE CAPACITY			4.3 AH SPARE CAPACITY	

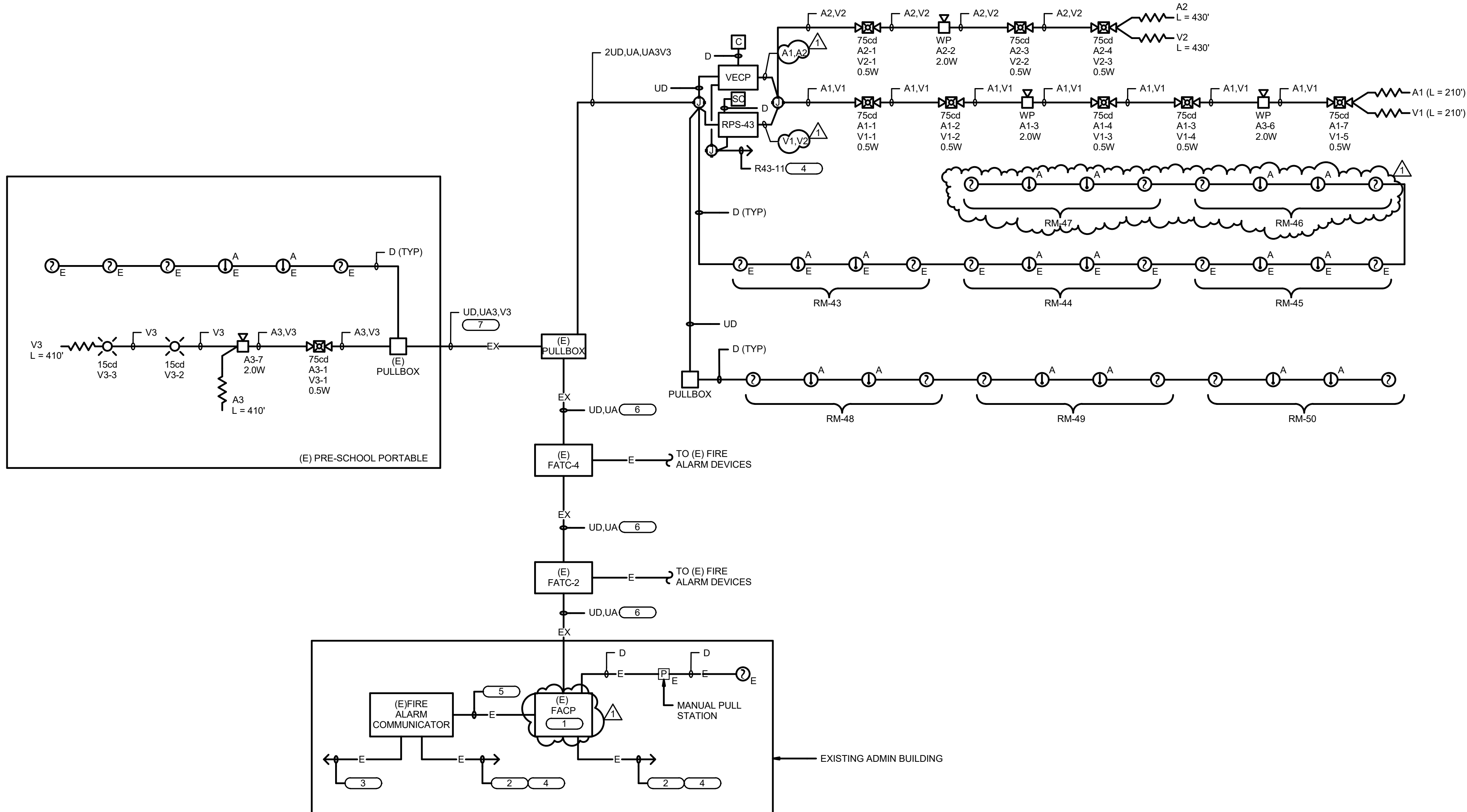
STROBE SIGNAL CIRCUIT SCHEDULE																								
BLDG. NO.	PANEL NO.	CIRCUIT NO.	150d STROBE 0.066 AMPS		300d STROBE 0.094 AMPS		750d STROBE 0.158 AMPS		1100d STROBE 0.202 AMPS		150d STROBE/SPEAKER 0.066 AMPS (*)		300d STROBE/SPEAKER 0.094 AMPS (*)		750d STROBE/SPEAKER 0.158 AMPS (*)		1100d STROBE/SPEAKER 0.202 AMPS (*)		TOTAL CIRCUIT AMPS	WIRE SIZE (CU)		FEEDER LENGTH IN FT. (FROM PANEL TO EOL)	VOLTAGE DROP (%)	REMARKS
			NO.	AMPS	NO.	AMPS	NO.	AMPS	NO.	AMPS	NO.	AMPS	NO.	AMPS	NO.	AMPS	NO.	AMPS		#	CIRCS.			
RELOS	RPS-43	V1	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	5	0.790	0	0.000	0.790	12	6530	210	2.3	
RELOS	RPS-43	V2	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	3	0.474	0	0.000	0.474	12	6530	430	2.8			
RELOS	RPS-43	V3	2	0.132	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.158	0	0.000	0.290	12	6530	410	1.6	
RELOS	RPS-43	V4	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0.000	0	0	0	0.00	SPARE

\* STROBE CURRENT ONLY INCLUDED IN VOLTAGE DROP CALCULATION

SPEAKER CIRCUIT LOAD CALCULATION											MAXIMUM -3 dB DROP PER CIRCUIT			
PANEL CIRCUIT DESCRIPTION		Gauge (16, 18, 14 12)	WIRE (25 OR 70 VRMS)	CIRCUIT SPEAKER TAPPED AT	APPLIANCES QUANTITIES / TAP VALUES		SPEAKER TAPPED AT	SPEAKER TAPPED AT	TOTAL CIRCUIT LOAD (WATTS)	ESTIMATED CIRCUIT LENGTH (FEET)	ACTUAL WIRELOSS (dB)	MAXIMUM ALLOWABLE CKT LENGTH (FEET)	TOTAL CIRCUIT RESISTANCE (OHMS)	
RELOS	A1	16	WG	70 VRms	0	2.5	1	4	6.5 Watts	210 ft.	-0.08 dB	30,040 ft.	3.4 Ohms	
RELOS	A2	16	WG	70 VRms	0	1.5	0	2	3.5 Watts	430 ft.	-0.05 dB	43,391 ft.	2.9 Ohms	
RELOS	A3	16	WG	70 VRms	0	0.5	0	2	2.5 Watts	410 ft.	0.00 dB	0 ft.	0.0 Ohms	
RELOS	(SPARE)	16	WG	70 VRms	0	0	0	0	0.0 Watts	0 ft.	0.00 dB	0 ft.	0.0 Ohms	
Appliance Summary					4.5	0	8	12.50						

NOTE:  
EXTRA 50' LENGTH ADDED TO CALCULATE MAXIMUM ALLOWABLE CIRCUIT LENGTH. THIS METHOD ALLOWS FOR A SMALL MARGIN OF SAFETY, TAKING INTO CONSIDERATION THE ACTUAL INSTALLED CIRCUIT ROUTING MAY DIFFER FROM WHAT IS SHOWN ON THE SHOP DRAWINGS. IF THE ACTUAL CIRCUIT LENGTH IS GOING TO EXCEED THE MAXIMUM ALLOWABLE CIRCUIT LENGTH.

FIRE ALARM SYMBOL LIST					
SYMBOL	MFG.	PART NO.	DESCRIPTION	REMARKS	CSFM LISTING NO.
			FIRE ALARM CONDUIT RUN, 3/4" MIN. UNLESS INDICATED OTHERWISE IN THE DWGS. REFER TO DWGS. & SPECS. REQUIRED WIRING.		
			END OF LINE RESISTOR "EOL"		
			24"36"48" FIRE ALARM TERM. CAB.		
	GAMEWELL FCI	7200	EXTING. FIRE ALARM CONTROL PANEL WITH DIGITAL ARM COMMANDATOR TRANSMITTER		7165-0694-174
	GAMEWELL FCI	GFS-9	REMOTE POWER SUPPLY		7300-1703-067
	GAMEWELL FCI	FIRE VAC IV	VOICE EVACUATION PANEL		6811-1703-012
	GAMEWELL FCI SYSTEM SENSOR	ASD PL2F	SMOKE DETECTOR - PHOTOELECTRIC DETECTOR BASE		7212-1703-021 7300-1653-021
	GAMEWELL FCI SYSTEM SENSOR	ATD-HL2F	HEAT DET. MNTD. IN ATTIC AND BELOW PLATFORM, 184°F		7270-1703-015 7300-1653-109
	SYSTEM SENSOR	SR	STROBE (ADJUSTABLE) WALL MOUNT WITH CANDELA (cd) RATING AS SHOWN	SEE DETAIL FOR WIRING & MOUNTING	7125-1653-086
	SYSTEM SENSOR	SPSCR	SPEAKER/STROBE (ADJUSTABLE) CEILING MOUNT WITH CANDELA (cd) & SPEAKER RATING AS SHOWN	SEE DETAIL FOR WIRING & MOUNTING	7320-1653-021
	SYSTEM SENSOR	SPRK-MWB	WEATHERPROOF SPEAKER WITH HORN RATING AS SHOWN	MOUNT AT - 90° A.F.F.	7320-1653-021
	GAMEWELL FCI	ADM-2SF	ADDRESSABLE OUTPUT SUPERVISED CONTROL MODULE RELAY		7300-1703-012
	GAMEWELL FCI	ADM-2F	MONITOR MODULE		7300-1703-012
	GAMEWELL FCI	AM-2RF	CONTROL MODULE		7300-1703-012



## FIRE ALARM NOTES

- THE DISTRICT SHALL RETAIN RECORD DRAWINGS ON THE PREMISES FOR A MINIMUM OF 3 YEARS, IN A DEDICATED FIRE ALARM RECORD DOCUMENT CABINET IN ACCORDANCE WITH NFPA 72, 7.7.2.
- EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL.
  - THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "SYSTEM RECORD DOCUMENTS".
  - ALL RECORDED AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.
  - CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.
  - WHERE CABINET IS INSTALLED IN A LOCATION OTHER THAN THE SYSTEM CONTROL UNIT, ITS LOCATION SHALL BE IDENTIFIED AT THE SYSTEM CONTROL UNIT.
- SYSTEM DOCUMENTS AS APPLICABLE:
- RECORD DRAWINGS/AS-BUILTS
  - EQUIPMENT CUT SHEETS & CA SPM LISTINGS
  - ALTERNATIVE MEANS AND METHODS
  - PERFORMANCE BASED DESIGN DOCUMENTATION (NFPA 72, 7.3.7)
  - SYSTEM RECORDED OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72, 7.8.2)
  - EMERGENCY RESPONSE PLAN (NFPA 72, 7.3.8)
  - EVALUATION DOCUMENTATION (NFPA 72, 7.3.9)
  - SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72, 23.2.2)
11. THIS IS A COMPLETE AUTOMATIC FIRE ALARM SYSTEM PLAN SUBMITTAL PER 2019 CFC 907.2.3 AND 2019 CBC 907.2.3.
12. THE NEW FIRE ALARM SYSTEM EXTENSION IS CONFIGURED TO A FULLY AUTOMATIC SYSTEM, AS IS THE EXISTING INSTALLATION.
13. THE FIRE ALARM SYSTEM INDICATED ON THESE DRAWINGS IS APPROVED BY CALIFORNIA STATE FIRE MARSHAL AND SHALL BE INSTALLED AS DESCRIBED ON THESE DRAWINGS AND AS NOTED IN THE SPECIFICATIONS. ANY CHANGES TO THESE PLANS, I.E., DELETION, RELOCATION OR ADDING OF DEVICES SHALL BE RESUBMITTED TO THE STATE FIRE MARSHAL FOR APPROVAL.
- INSTALLATION OF FIRE ALARM SYSTEM MAY START AFTER TTG. RECEIVES THESE APPROVED DRAWINGS. A.O.R. SHALL START AND SIGN ALL DRAWINGS.
14. ALL WIRING AND INITIATING DEVICES SHALL BE SUPERVISED TO THE PRINCIPAL POINT OF ANNUNCIATION (F/A PANEL) TO SUPERVISE ALL CIRCUITS AND INITIATING DEVICES).
15. WIRING SHALL NOT BE LOOPED THROUGH DEVICES; WIRE MUST BE CUT FOR IN AND FOR OUT.
16. ALL WIRING TO BE IN CONDUIT.
17. ALL TERMINATIONS IN JUNCTION BOXES, PULL BOXES AND TERMINAL CABINETS SHALL BE ON BOX MOUNTED TERMINAL BLOCKS. DO NOT USE WIRE NUTS FOR SPLICING. DO NOT SPLICE WIRES IN ANY BOXES.
18. ALL CONDUIT SIZES INDICATED IN DRAWINGS ARE MINIMUM. CONTRACTOR TO ADJUST SIZE FOR FIELD CONDITIONS BUT SHALL NOT BE SMALLER THAN 3/4 INCH.
19. ALL FIRE ALARM WIRING MUST TEST FREE OF OPENS, SHORTS AND GROUNDS.
20. FIRE ALARM DRAWINGS ARE SCHEMATIC IN NATURE ONLY. CONTRACTOR TO ROUTE CONDUIT AS FIELD CONDITIONS INDICATE.
21. CONDUIT AND JUNCTIONBOX BOXES ARE NOT TO BE USED FOR UNRELATED WIRING.
22. THE SYSTEM SHALL CONFORM TO TITLES 19 AND 24 AS APPLICABLE TO THIS PROJECT.

- |   |  |
|---|--|
| 39. EXTRA DEVICES   | <p>PRESENCE OF, AND IN A MANNER ACCEPTABLE TO, THE ENFORCING AGENCY.</p>   |
| <p>DUE TO UNFORESEEN CONDITION, THE FOLLOWING EXTRA DEVICES SHALL BE INCLUDED IN THE CONTRACTORS BID:</p> <ul style="list-style-type: none"> <li>a. SMOKE DETECTORS 4 EACH</li> <li>b. ATTIC HEAT DETECTORS 4 EACH</li> <li>c. SPEAKER/STROBE 2 EACH</li> <li>d. STROBE 2 EACH</li> <li>e. SPEAKER 2 EACH</li> </ul>  | <p>14. THE CONTRACTOR SHALL REPROGRAM AND CERTIFY ADDRESSABLE FIRE ALARM CONTROL PANEL TO ACCOMMODATE ADDITIONAL DEVICES.</p> <p>15. FIRE ALARM SYSTEM SHALL BE INSTALLED BY FACTORY AUTHORIZED REPRESENTATIVE.</p>  |
| <p>FOR BID PURPOSES, ALLOW TWENTY (20) FEET OF CONDUIT AND ITS SUPPORT SYSTEM TO INCLUDE FITTINGS, WIRES AND LABOR FOR EACH OF THE DEVICES LISTED ABOVE.</p>  | <p>16. CONDUCTOR LENGTHS AND DEVICE QUANTITIES ARE SHOWN SOLELY FOR CALCULATION PURPOSES ONLY; AND SHALL NOT BE USED FOR BID TAKE-OFF.</p>   |
| <p><b>KEY NOTES</b></p>   | <p>17. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF CALIFORNIA ELECTRICAL CODE. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS, INCLUDING CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM HAVE BEEN APPROVED BY OSARS. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE FIRE AUTHORITY HAVING JURISDICTION.</p>  |
| <p>1. EXISTING FLUSH WALL MOUNTED FCU7200A FIRE ALARM CONTROL PANEL (DSA NUMBER) LOCATED IN RECEPTION AREA TO REMAIN. RE-PROGRAM PANEL TO ADD NEW DEVICES.</p> <p>2. EXISTING CIRCUIT WITH LOCK-ON DEVICE TO BREAKER AND RED LABEL TO CIRCUIT ID.</p> <p>3. EXISTING (2) TELEPHONE LINES FROM TEL. BOARD.</p> <p>4. PROVIDE "LOCK-ON" DEVICE TO BREAKER HANDLE AND RED LABEL INDICATING "FIRE ALARM" TO CIRCUIT ID.</p> <p>5. EXISTING FIRE ALARM WIRING.</p> <p>6. PULL NEW FIRE ALARM WIRING IN EXISTING CONDUIT ALONG WITH EXISTING FIRE ALARM WIRING.</p> <p>7. REMOVE EXISTING FIRE ALARM WIRING AND PULL NEW WIRING AS SHOWN.</p> | <p>18. ALL FIRE ALARM AND COMMUNICATIONS WIRES AND CABLES SHALL BE ONE CONTINUOUS LENGTH FROM A BUILDING TERMINAL CABINET TO ANOTHER BUILDING TERMINAL CABINET OR JUNCTION BOX. ABSOLUTELY NO SPlicing IS BE PERMITTED! PROVIDE TERMINAL BLOCKS WITH INSTALLED IN TERMINAL CABINETS ONLY AS REQUIRED.</p> <p>19. EVERY ALARM SIGNALING DEVICE MOUNTING SHALL BE OF THE SAME BASIC TYPE (BELLS, HORNS, CHIMES, SPEAKERS, ETC.) AS ALL OTHER SIGNALING DEVICES IN THE FACILITY. (EXCEPTION: ANY SIGNALING DEVICES REQUIRED FOR THE DEAF OR HEARING IMPAIRED PER 2016 NFPA-72).</p> <p>20. INSULATED CONDUCTORS USED IN WET LOCATIONS SHALL BE (1) LEAD-COVERED, (2) TYPES RHW, TW, THW, THWN, XHHW, OR (3) OF A TYPE LISTED FOR USE IN WET LOCATIONS. CABLES OF ONE OR MORE CONDUCTORS USED IN WET LOCATIONS SHALL BE OF A TYPE LISTED FOR USE IN WET LOCATIONS. CONDUCTORS USED FOR DIRECT BURIAL APPLICATIONS SHALL BE OF A TYPE LISTED FOR SUCH USE (PER 2016 CEC ARTICLE 310).</p> <p>21. THE FIRE ALARM DEVICE SUPPLIER SHALL FURNISH ALL SURFACE MOUNT ENCLOSURES FOR PULLSTATIONS AND SKIRTS FOR ALL VISUAL AND AUDIO VISUAL DEVICES TO CONCEAL AS BACK BOXES.</p> <p>22. AFTER THE SYSTEM IS COMPLETED, ALL ADDRESSABLE DEVICES SHALL BE</p> |

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21. FIRE ALARM SYSTEM SUPPLIER SHALL FURNISH ALL SURFACE MOUNT ENCLOSURES FOR PULLSTATIONS AND SKIRTS FOR ALL VISUAL AND AUDIO VISUAL DEVICES TO CONCEAL AS BACK BOXES.
22. AFTER THE SYSTEM IS COMPLETED, ALL ADDRESSABLE DEVICES SHALL BE PROGRAMMED AT THE FACP ACCORDING TO THE ACTUAL BUILDING ROOM NUMBER. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE SCHOOL DISTRICT TO OBTAIN ACCURATE ROOM NUMBER INFORMATION.
23. POWER SERVICES SHALL BE ON A DEDICATED BRANCH CIRCUIT WITH A RED MARKING & LOCKING DEVICE AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL".
24. PROVIDE CALIFORNIA TEMPORAL-THREE TONE DISTINCTIVE FIRE ALARM SOUND. (2019 CFC SEC. 907.6.2.1.3 AND 2016 NFPA 72 SEC. 18.4.2.1)
25. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15 dBA ABOVE THE AVERAGE AMBIENT SOUND LEVEL IN ALL OCCUPABLE AREAS. (2019 NFPA 72 SEC. 18.4.3.1) (i.e., CLASSROOM AVERAGE AMBIENT ROOM NOISE IS45dBA PLUS 15dBA EQUAL = 60dBA MINIMUM ALARM TONE REQUIRED)
26. STRAKS SHALL FLASH AT A RATE NOT EXCEEDING TWO FLASHES PER SECOND NOR BE LESS THAN ONE FLASH EVERY SECOND (2019 NFPA 72 SEC. 18.6.3.1)
27. FINAL FIRE ALARM TEST SHALL BE MADE WITH THE DSA INSPECTOR OF RECORD (IOR). LOCAL FIRE AUTHORITY TEST SHALL BE NOTIFIED OF DATE AND TIME OF FINAL ALARM TESTING AND SHALL ASSIST/ WITNESS SUCH TESTING WHEN ABLE.
28. FIRE ALARM CONTRACTOR SHALL PROVIDE A "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATION ACCEPTANCE TEST. (2016 NFPA 72 SEC. 7.5.6 & 2019 CFC 901.6.2)
29. UNLESS SPECIFICALLY SHOWN ON THESE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED, NOR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE DISTRICT ENGINEER AND DISTRICT STRUCTURAL ENGINEER FROM THE DIVISION OF THE STATE ARCHITECT.
30. THE INSTALLING CONTRACTOR SHALL PROVIDE A STATEMENT OF COMPLIANCE ALONG WITH THE REQUEST FOR ACCEPTANCE TESTING PER 2019 NFPA-72.
31. OCCUPANCY OF THE BUILDINGS IS PROHIBITED UNTIL THE FIRE ALARM SYSTEM IS COMPLETED, TESTED, AND APPROVED PER 2016 NFPA 72.
32. SMOKE DETECTORS SHALL BE TESTED PER THE METHOD SHOWN IN 2019 CFC.
33. REACCEPTANCE TESTING SHALL BE PERFORMED AS REQUIRED BY 2016 NFPA 72.
34. ALL BACKUP BATTERIES FOR FIRE ALARM SYSTEM EQUIPMENT SHALL BE VISUALLY CHECKED FOR DATE OF INSTALLATION. ALL BATTERIES OVER 5 YEARS OLD SHALL BE REPLACED WITH NEW BATTERIES OF THE SAME MANUFACTURER, TYPE, AND AMP-HOUR RATING.
35. FIRE ALARM SYSTEMS SHALL BE SUPERVISED BY AN APPROVED UL LISTED CENTRAL STATION, REMOTE STATION (IUXF) MONITORING COMPANY (UJUS) (2019 CFC, 907.2.3.5, 907.6.5.3).
36. A SINGLE FAULT ON A PATHWAY CONNECTED TO THE ADDRESSABLE DEVICES SHALL NOT CAUSE THE LOSS OF MORE THAN 50 ADDRESSABLE DEVICES (2019 NFPA 72 SECTION 23.6.1)

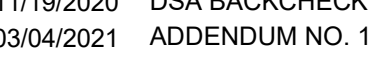


BOSTONIA  
LANGUAGE  
ACADEMY

1390 East Broadway  
El Cajon, CA 92021

# Modular Classroom Buildings Relocation

Date	Issued For
08/14/2020	Design Development
08/17/2020	100% CD
11/06/2020	DSA BACKCHECK
11/19/2020	DSA BACKCHECK
03/04/2021	ADDENDUM NO. 1

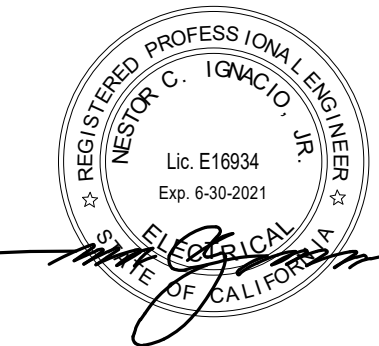


901 VIA PIEMONTE SUITE 400  
ONTARIO, CA 91764  
909.477.6915 FAX: 909.477.6916  
www.imegcorp.com # 20003155.00



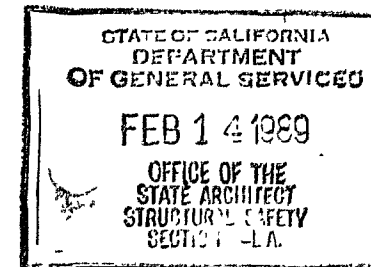
225 Broadway  
Suite 1300  
San Diego, California  
92101 USA

(619) 318-3800  
WWW.HED.DESIGN



2020-06795-000

FA  
SCHEDULES,  
CALCS &  
NOTES  
E6-21



# SCOTSMAN 24' x 40'

## RELOCATABLE CLASSROOM

### INDEX OF DRAWINGS

- COVER SHEET
- A-1 FLOOR PLAN & INTERIOR ELEVATIONS  
A-2 ROOF PLAN, EXTERIOR ELEVATIONS
- A-3 CEILING PLAN & DETAILS  
E-1 ELECTRICAL PLAN & HVAC  
S-1 FOUNDATION PLAN & DETAILS
- S-2 FLOOR FRAMING PLAN & BUILDING SECTIONS  
S-2A ALTERNATE FLOOR FRAMING PLAN & BUILDING SECTIONS  
S-3 ROOF FRAMING PLAN & BUILDING SECTIONS
- S-4 FRAMING ELEVATION & SECTION  
S-5 FRAMING ELEVATIONS & DETAILS  
S-6 RAMP PLAN & DETAILS

DESCRIPTION	
1. OCCUPANCY CLASS - EI	6. CONSTRUCTION - TYPE V, NON RATED
2. NUMBER OF STORIES - 1	7. AREA PER FLOOR - 947 S.F.
3. ADDN. TO EXIST. BLDG. - NO	8. AREA EXIST. BLDG. - NOT APPLICABLE
4. TOTAL SQUARE FEET - 23'-8" x 40'-0"	9. CAPACITY - 48 PERSONS
5. AUTO. FIRE SPRINKLERS - NONE	10. HEIGHT IN FEET - 12'-1" MIN. TO 13'-3" MAX.

#### DESIGN LOADS:

ROOF LIVE LOAD - 20 PSF  
FLOOR LIVE LOAD - 50 PSF  
RAMP LIVE LOAD - 100 PSF  
SNOW LIVE LOAD - NONE  
WIND LOAD - 15 PSF  
SEIS ZONE - IX

OFFICE OF STATE FIRE MARSHAL  
APPROVED

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

Reviewed by *John C. Johnson* 1/13/69

OFFICE OF THE STATE ARCHITECT  
STRUCTURAL SAFETY SECTION

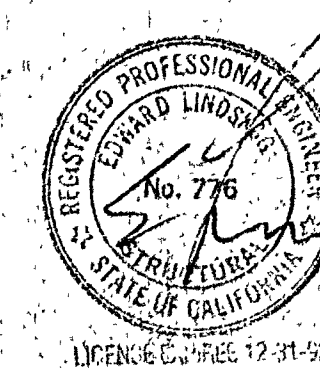
AS 1190 JAN 13 1969

APPROVED *John P. McConell*  
FOR THE STATE ARCHITECT

OFFICE OF THE STATE ARCHITECT  
STRUCTURAL SAFETY SECTION

51190 JAN 13 1969

APPROVED *W*  
FOR THE STATE ARCHITECT



#### GENERAL NOTES

- ALL WORK OF ALL TRADES SHALL COMPLY WITH THE REQUIREMENTS OF TITLE 19, 21, 24 OF CALIF. ADMINISTRATIVE CODE, 1979 IBC & 1985 UMC, UIC, 1982 NATIONAL ELECT. CODE AND APPLICABLE INTERPRETIVE REGULATIONS (IR) OF CEA.
- ALL CHANGES TO APPROVED PLANS WILL REQUIRE WRITTEN APPROVAL BY THE AGENCY ARCHITECT, CEA AND CLA PRIOR TO BEGINNING THE WORK.
- WORK NOT IN CONTRACT: THE FOLLOWING WORK IS NOT A PART OF THIS CONTRACT:  
a. PREPARATION AND CLEARING OF SITE AND GRADING TO WITHIN 1" OF LEVEL GRADE.  
b. REMOVAL OF TURF AND OTHER SITE DEBRIS.  
c. BUILDING PAD BEARING CAPACITY OF AT LEAST 1000 PSF.  
d. INSTALLATION OF SITE UTILITIES AND COORDINATION OF ON-SITE FIRE ALARM SYSTEM.
- GENERAL REQUIREMENTS FOR CONSTRUCTION: REFER TO SHEET S-1.
- FINISH NOTES AND MATERIAL SPECIFICATIONS: REFER TO SHEET A-1 & A-2.
- ALL INDEPENDENT TESTING AND INSPECTIONS SHALL BE PAID FOR BY THE OWNER.



FIRE ALARM +48"  
FIRE EXTINGUISHER +48"

4" TOPSET BASE  
MODULE CLOSER STRIP

CLOCK AT +84"  
SUPPLY AIR DUCT  
THERMOSTAT AT +48"

RETURN AIR REGISTER  
14 1/2" x 26 1/2" ELECTRIC  
PANEL BOARD

E  
A-1

D  
A-1

SUSPENDED CEILING

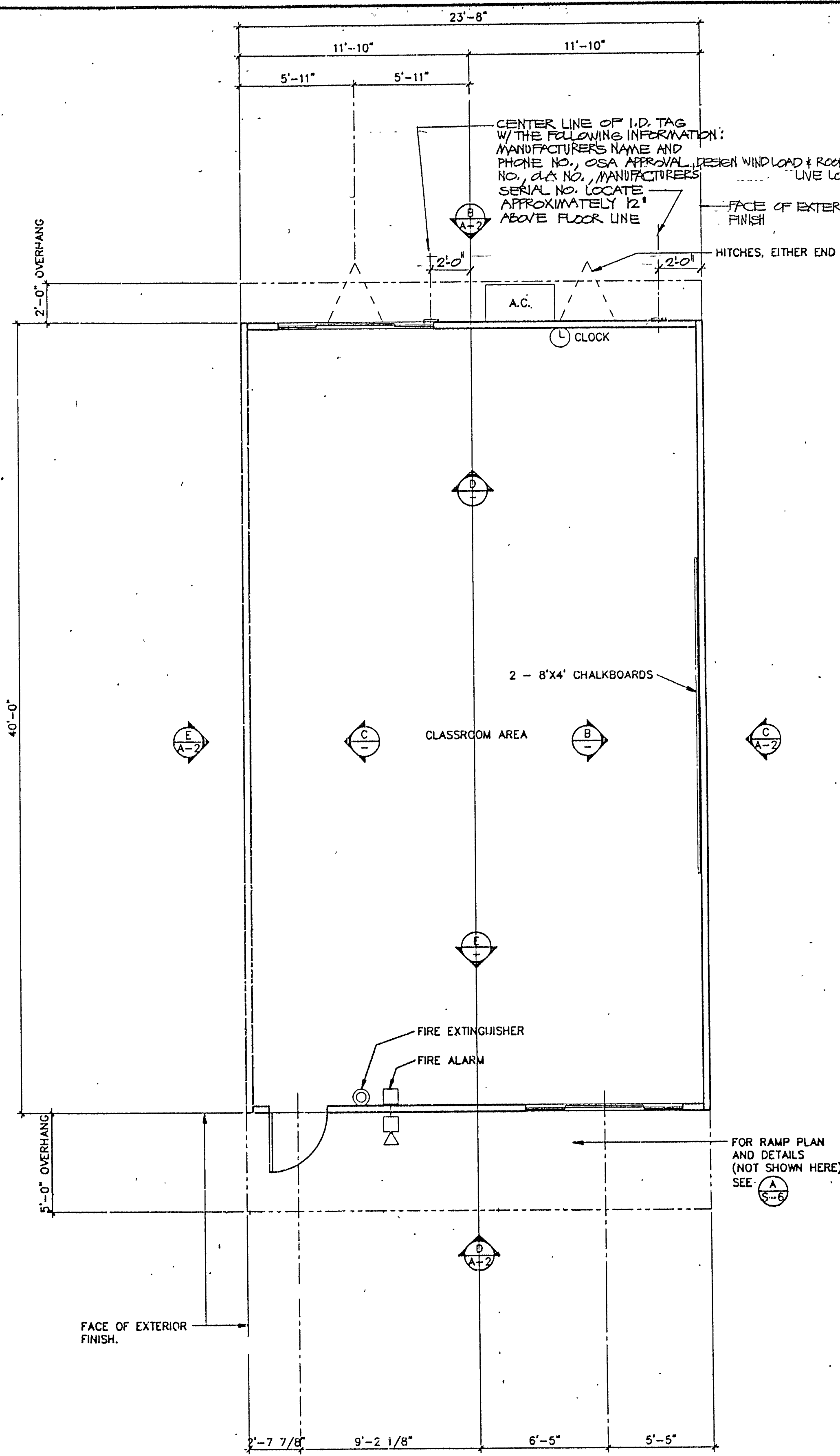
VINYL INTERIOR FINISH  
4" TOPSET BASE

C  
A-1

3-#8 x 2 1/2" FAN HEAD SCREWS TO  
DBL. STUDS FOR CHALKBOARD SUPPORT  
#8 x 2 1/2" FAN HEAD SCREWS  
@ 16" O.C. TO STUDS

CHALK BOARD

B  
A-1



NOTE  
BUILDING PLAN "A" AS SHOWN  
BUILDING PLAN "B" REVERSED

EXIT DOOR REQUIREMENTS  
ALL EXIT DOORS IN SCHOOL BUILDINGS, INCLUDING BUT NOT LIMITED TO DOORS OF TOILETS AND STORAGE ROOMS, SHALL CONFORM WITH THE REQUIREMENTS OF SECTION 2-3304 TITLE 24 CAC. THE FOLLOWING ARE SOME OF THE REQUIREMENTS:  
1. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT.  
2. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30 AND 44 INCHES ABOVE THE FLOOR.  
3. DEAD BOLTS ARE NOT PERMITTED UNLESS OPERABLE WITH A SINGLE EFFORT BY A LEVER TYPE HARDWARE.

# GENERAL NOTES

## CHASSIS

1. TWO 12' X 40' PERIMETER CHASSIS WITH STEEL "Z" FLOOR JOISTS 48" O.C.

## INTERIOR

- FLOOR: DIRECT-GLUE-DOWN-TYPE CARPET PER STATE OF CALIFORNIA SPECIFICATION 7220-11A-01, GROUP I, TYPE A, COLOR AS SELECTED BY THE AGENCY. CARPET DENSITY SHALL BE 4000 MINIMUM. FILE YARN SHALL BE A BRANDED NYLON, CAMBERY MILLS TRINIDAD.
- BASE: 1/8" THICK X 4" HIGH MOULDED TOP-SET RUBBER BASE. "BURKE RUBBER CO." #502-P OR EQUAL (SOLID COLOR). CLASS II FIRE RATING.
- WALLS: VINYL-COVERED 1/2" TACKBOARD (9'-FT. PANELS) OVER 1/2" SHEETROCK BACKING. THE VINYL COATING SHALL WEIGH A MINIMUM OF 8 OZ. PER SQUARE YARD. THE RATING AND THE FABRICATED PANELS SHALL HAVE A CLASS II. THE PANELS SHALL BE APPROVED FOR USE BY THE OFFICE OF THE CALIFORNIA STATE FIRE MARSHAL. VINYL-COVERED TACKBOARD AS MANUFACTURED BY "DOMSTAR GYPSUM AMERICA INC." CARE SHALL BE TAKEN IN MOUNTING THE TACKBOARD SO THAT ORIENTATION AND COLOR MATCH.
- CEILING: SUSPENDED EXPOSED T-BAR CEILING WITH MINIMUM 5/8" THICK MINERAL-FIBERBOARD. ACOUSTICAL LAY-IN PANELS, 24" X 48" MODULAR SIZE. LIGHT REFLECTANCE 75% MINIMUM, AND NOISE-REDUCTION COEFFICIENT OF 0.65 MINIMUM. CEILING HEIGHT: 8'-6" CEILING SHALL HAVE A MINIMUM CLASSIFICATION OF "HEAVYDUTY". GRID SHALL BE DIRECT-HUNG IN STRICT ACCORDANCE WITH TITLE 21 CAC AND TITLE 24 CAC. CEILING TILE: CELOTEX 24" X 48" X 5/8" MINERAL FIBERBOARD.

## EXTERIOR

- 5/8" THICK MDO PLYWOOD SIDING, EXTERIOR TYPE, CONFORMING TO PS 1-83, (OR DEAD TEX). APPLY OVER MOISTURE BARRIER. 15# FELT. SEAL ALL EDGES WITH A HEAVY COAT OF HIGH-GRADE EXTERIOR HOUSE PRIMER OR AN ALUMINUM PRIMER FORMULATED FOR WOOD BEFORE INSTALLATION.

## INSULATION

- WALLS AND FLOOR SHALL HAVE AN INSULATION RATING OF R-11. ROOF SHALL HAVE AN INSULATION RATING OF R-19. SMOKE DENSITY SHALL BE LESS THAN 400 FLAME SPREAD RATING SHALL BE LESS THAN 25.

## MOISTURE BARRIER

- ALL WEATHER-EXPOSED SURFACES SHALL HAVE A WEATHER-RESISTIVE BARRIER TO PROTECT THE INTERIOR WALL COVERING. SUCH BARRIER SHALL BE EQUAL TO THAT PROVIDED FOR IN UBC STANDARD 17-1 FOR KRAFT WATERPROOF BUILDING PAPER, OR UBC STANDARD 32-1 FOR ASPHALT-SATURATED RAO FELT. MOISTURE BARRIER SHALL BE FREE FROM HOLES AND BREAKS OTHER THAN THOSE CREATED BY FASTENERS AND CONSTRUCTION SYSTEM DUE TO ATTACHING OF THE MOISTURE BARRIER, AND SHALL BE APPLIED OVER STUDS OF ALL EXTERIOR WALLS. MOISTURE BARRIER SHALL BE APPLIED WEATHER-BARRIER-FASHION, LAPPED NOT LESS THAN 2" AT HORIZONTAL JOINTS AND NOT LESS THAN 6" AT VERTICAL JOINTS.

## DOORS

- 3'-0" X 6'-8" X 1-3/4" THICK FLUSH STEELCRAFT L-10-4 W/10GA STL FACE SHEETS AND SOUND-DEADENING MATERIAL ON INTERIOR TO EFFECTIVELY REDUCE METALLIC RING. CONSTRUCT PER CS242 AS MINIMUM REQUIREMENT. FACTORY-PREPARE AND REINFORCE FOR INDICATED FINISH HARDWARE, INCLUDING REINFORCEMENT ON BOTH FACES FOR CLOSER. CHEMICALLY TREAT DOOR FOR PAINT ADHESION AND APPLY ONE COMPLETE SHOP COAT OF METAL PRIMER, PRE-FINISHED - BRONZE COLOR.
- PRESSED METAL FRAME SHALL BE KNOCK-DOWN OR WELDED TYPE PER CS242 AS MINIMUM REQUIREMENT. MANUFACTURER'S STANDARD 16-GA. STEEL DEPTH AS REQUIRED TO SUIT WALL THICKNESS.

PREPARE AND REINFORCE FOR REQUIRED HARDWARE, INCLUDING REINFORCEMENT FOR CLOSER ON ALL FRAMES. SOUND-DEADEN CONCEALED FACES WITH 1/8" THICK UNDERCOATING. CHEMICALLY TREAT FRAMES FOR PAINT ADHESION AND APPLY ONE COMPLETE SHOP COAT OF METAL PRIMER. STEELCRAFT 3060 R-10-4

## HARDWARE

- BUTTS: HAGER 4 1/2 X 4 1/2 B3111 NRP 260. SOLID-BRONZE BUTTS WITH SETSCREW IN BARREL AND BALL-BEARING DESIGN. 2. CLOSERS: SIZE AS RECOMMENDED BY MANUFACTURE FOR DOOR SIZE. "NORTON" SERIES 1604-SH5.
- LOCKSET: CLASSROOM LEVER-HANDLE LOCKSET, MORTISE OR CYLINDRICAL TYPE. "SCHLAGE" D70RD US-260 FINISH, CLAY/FLAO. LEVER HANDLE.
- THRESHOLD: "PEMKO" 271-A 5" ALUMINUM WITH "PEMKO" 216-AV DOOR BOTTOM.
- WEATHERSTRIPPING: "PEMKO" 292 D.
- ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- MAXIMUM PRESSURE TO OPERATE DOORS: EXTERIOR 8.5 LBS. INTERIOR 5 LBS.

## WINDOWS

- 8'-0" X 4'-0" ANODIZED ALUMINUM FRAME SINGLE-PANE WINDOW UNITS. WINDOW FRAME SHALL BE THE 50% DOUBLE-SLIDING SASH TYPE (XOX). GLAZING MATERIAL SHALL BE 7/32" MINIMUM, TEMPERED GLASS OR LAMINATED AS-1 GLASS OF SOLAR GRAY. GLARE-REDUCING TYPE WITH A LIGHT TRANSMITTANCE FACTOR RANGING BETWEEN 12% AND 16%. HEADER HEIGHT: 6'-8". ALL OPERABLE SASH SHALL HAVE ALUMINUM SCREENS. WINDOW SHALL NOT BE MOUNTED TO THE EXTERIOR PLYWOOD SURFACE.

## CHALK BOARD

- TWO 8'-0" X 4'-0" A-1 MFB M5AE 0648 WITH EXTRUDED ALUMINUM MOLDING AND CHALK TROUGH. FULL-LENGTH MAP RAIL WITH TACKBOARD OR CORK INSERT. A MINIMUM OF SIX (6) MAP HOOKS WITH CLIPS AND A FLAG-HOLDER (1/2" STAFF SIZE).

## FIRE EXTINGUISHER

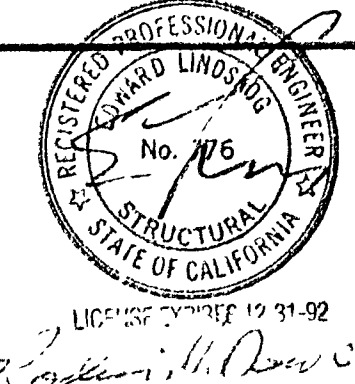
- PRESSURE-TYPE FIRE EXTINGUISHER WITH 2A-10C RATING MOUNTED AT A HEIGHT OF 4'-0". FIRE EXTINGUISHER SHALL BE TOTALLY CHARGED AND HAVE A DIAL INDICATING THE STATE OF CHARGE.

## PAINTING

- SEE SHEET A-2.
- THE FOLLOWING ITEMS SHALL MEET THE FOLLOWING FLAME SPREAD & SMOKE CONTRIBUTION RATINGS:  
1. CARPET - CLASS 1  
2. INSULATION - CLASS II  
3. VINYL COVERED WALLS - CLASS II SMOKE CONTRIBUTION: 5  
4. SUSPENDED CEILING - CLASS I; FLAME SPREAD 25; SMOKE CONTRIBUTION 0-15.  
5. RUBBER BASE - CLASS 2

# FLOOR PLAN

A  
A-1



**SCOTSMAN**

ENGINEERING & CONSTRUCTION DIVISION  
2550 EAST 68TH STREET, LONG BEACH, CA. 90805 213-531-2230 OR 714-761-4553  
2419 FIRST AVENUE, GREELEY, CO. 80631 303-356-5950

24'x40' STANDARD O.L.A. MODULAR  
RELOCATABLE CLASSROOM BUILDINGS

FLOOR PLAN  
INTERIOR ELEVATIONS

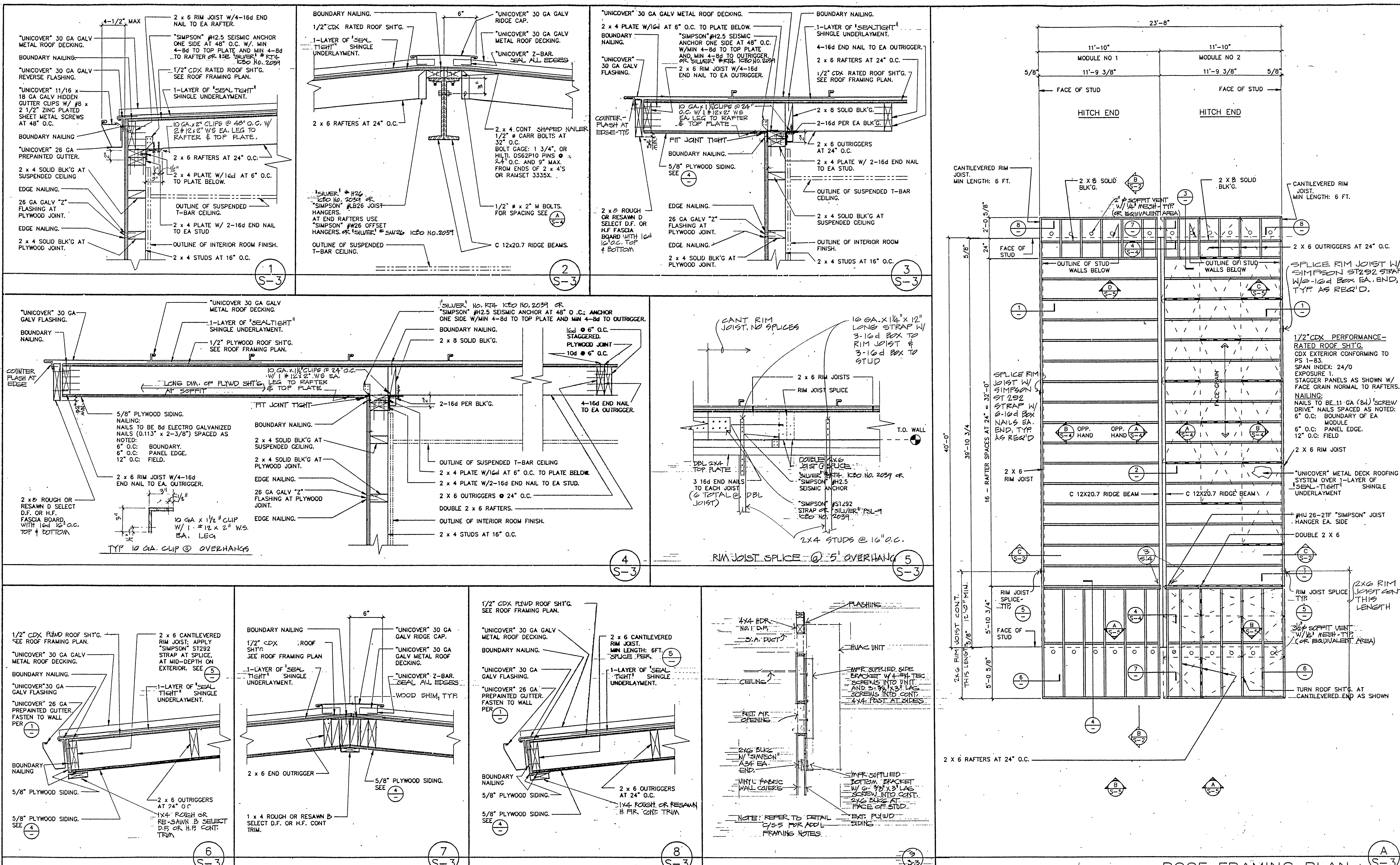
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DRAWN BY A.M.  
CHECKED BY D.W.  
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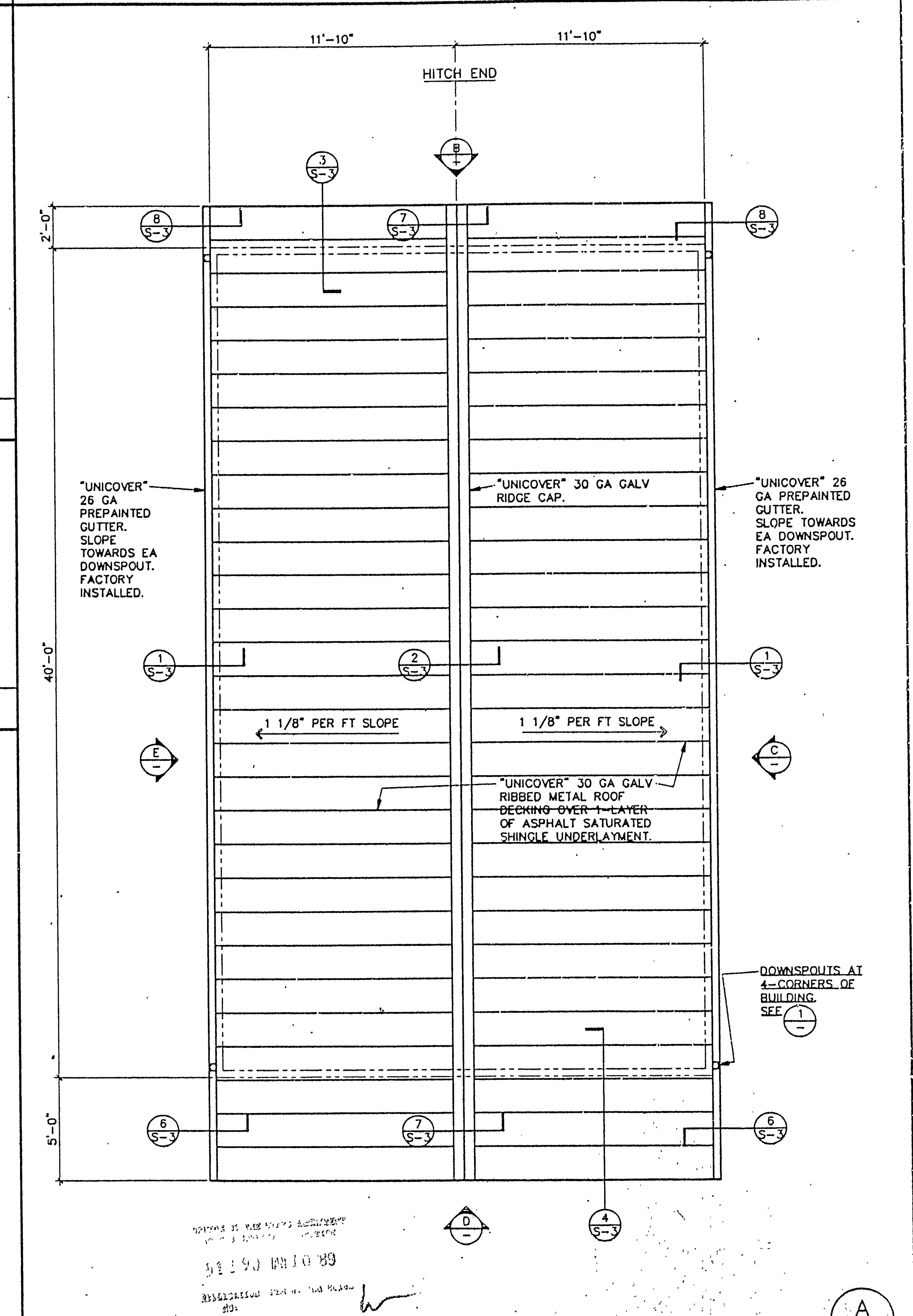
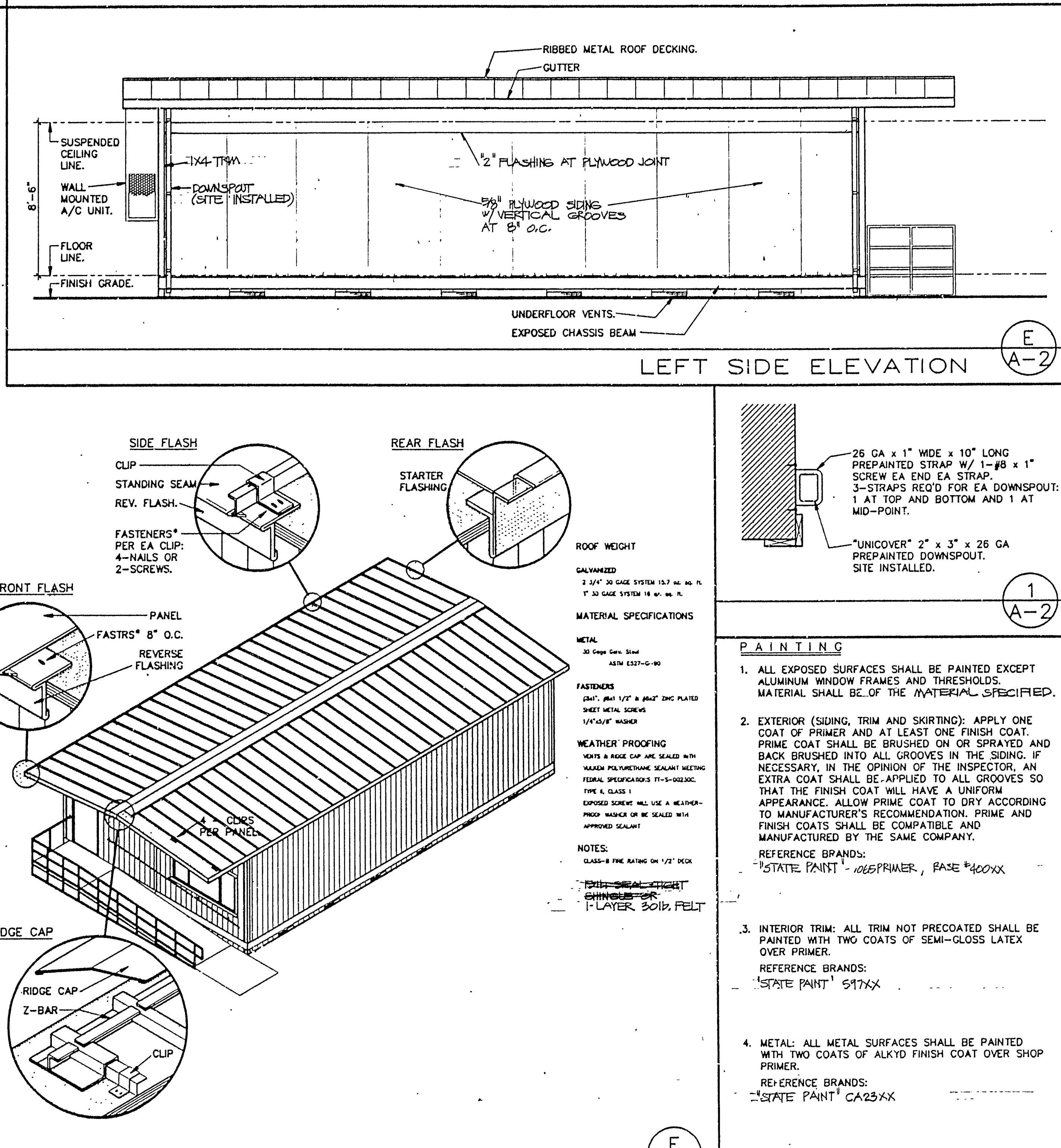
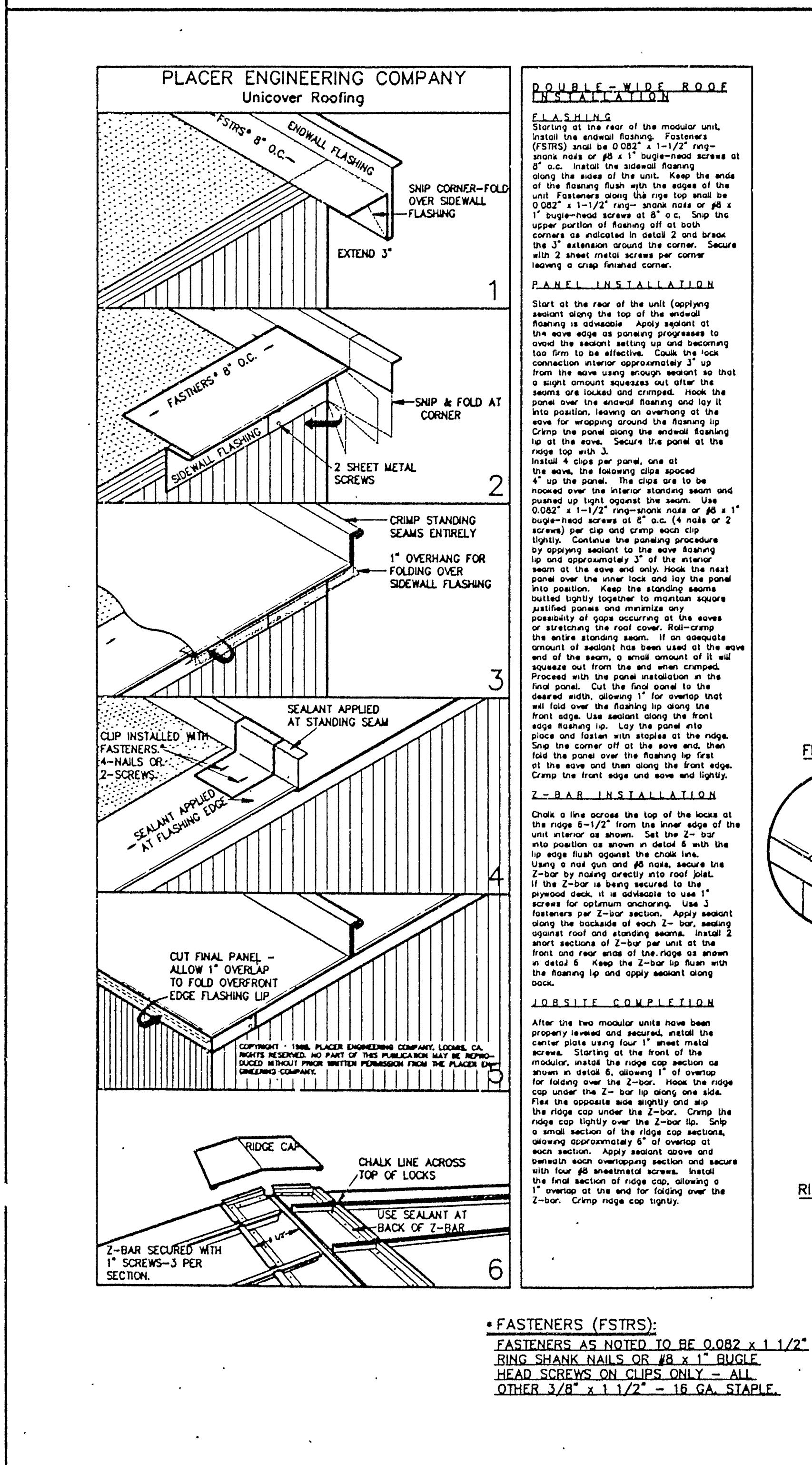
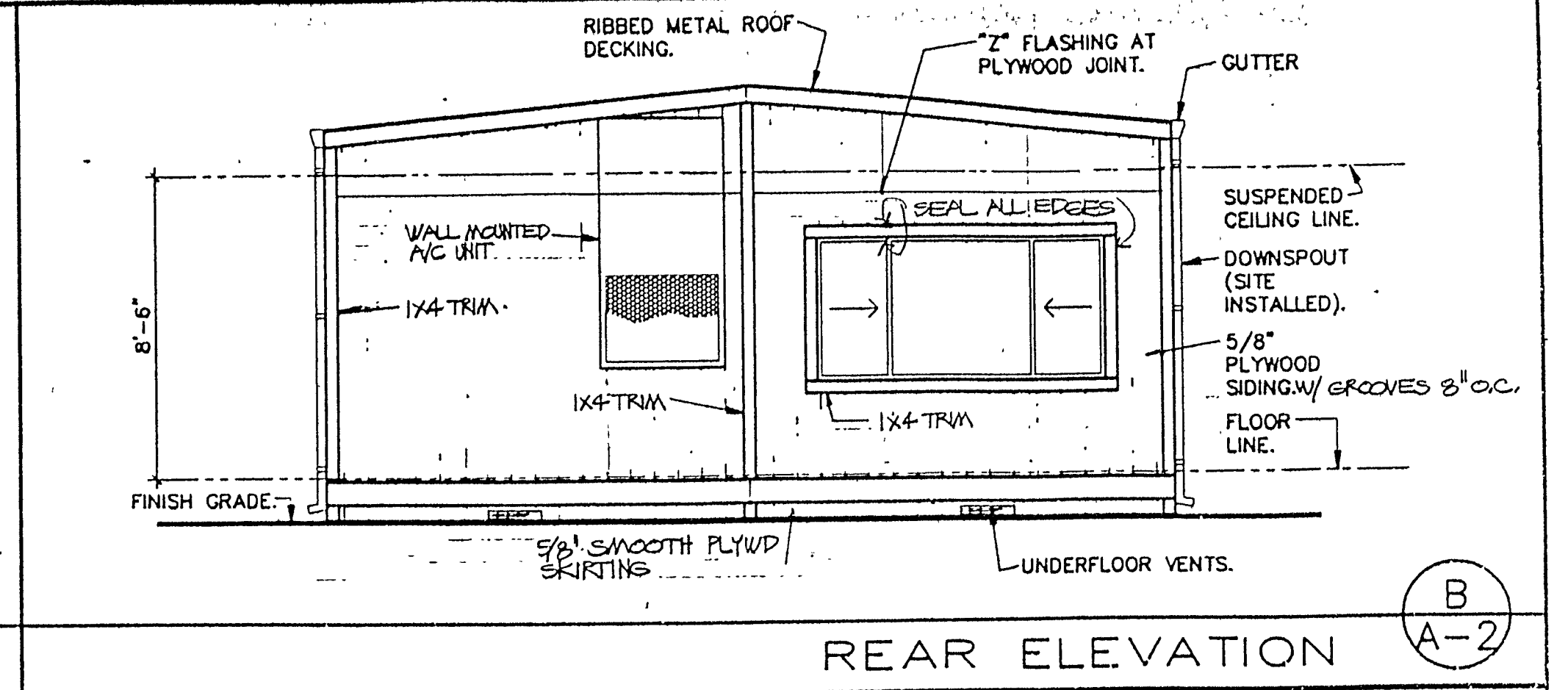
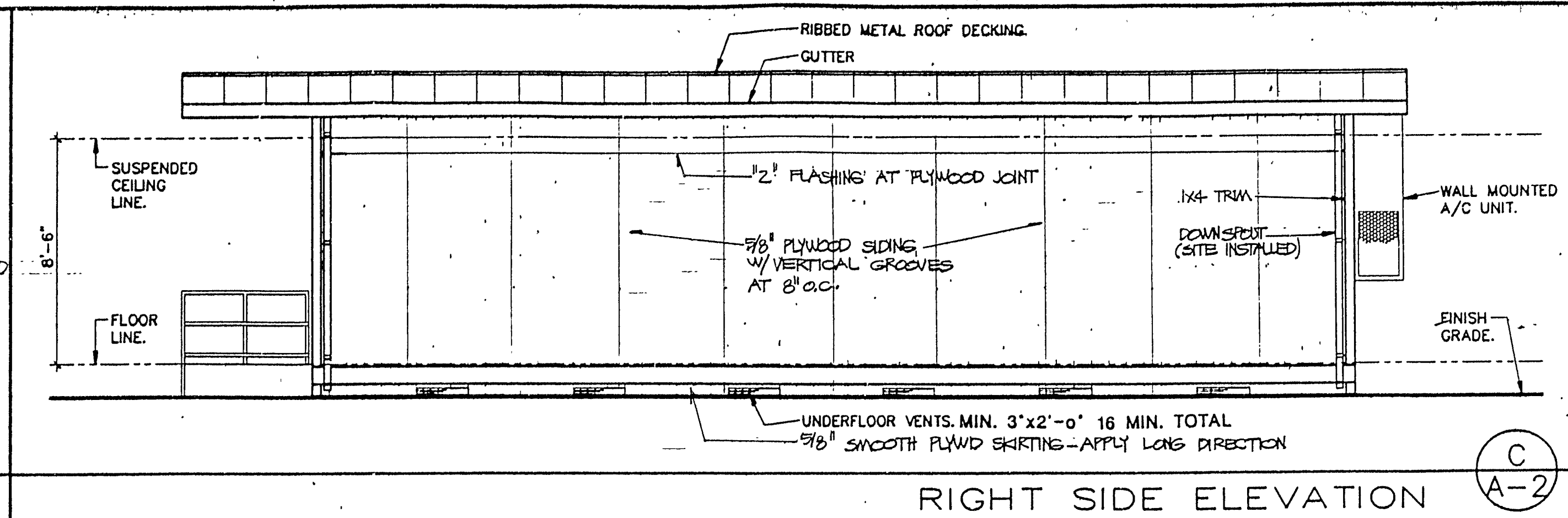
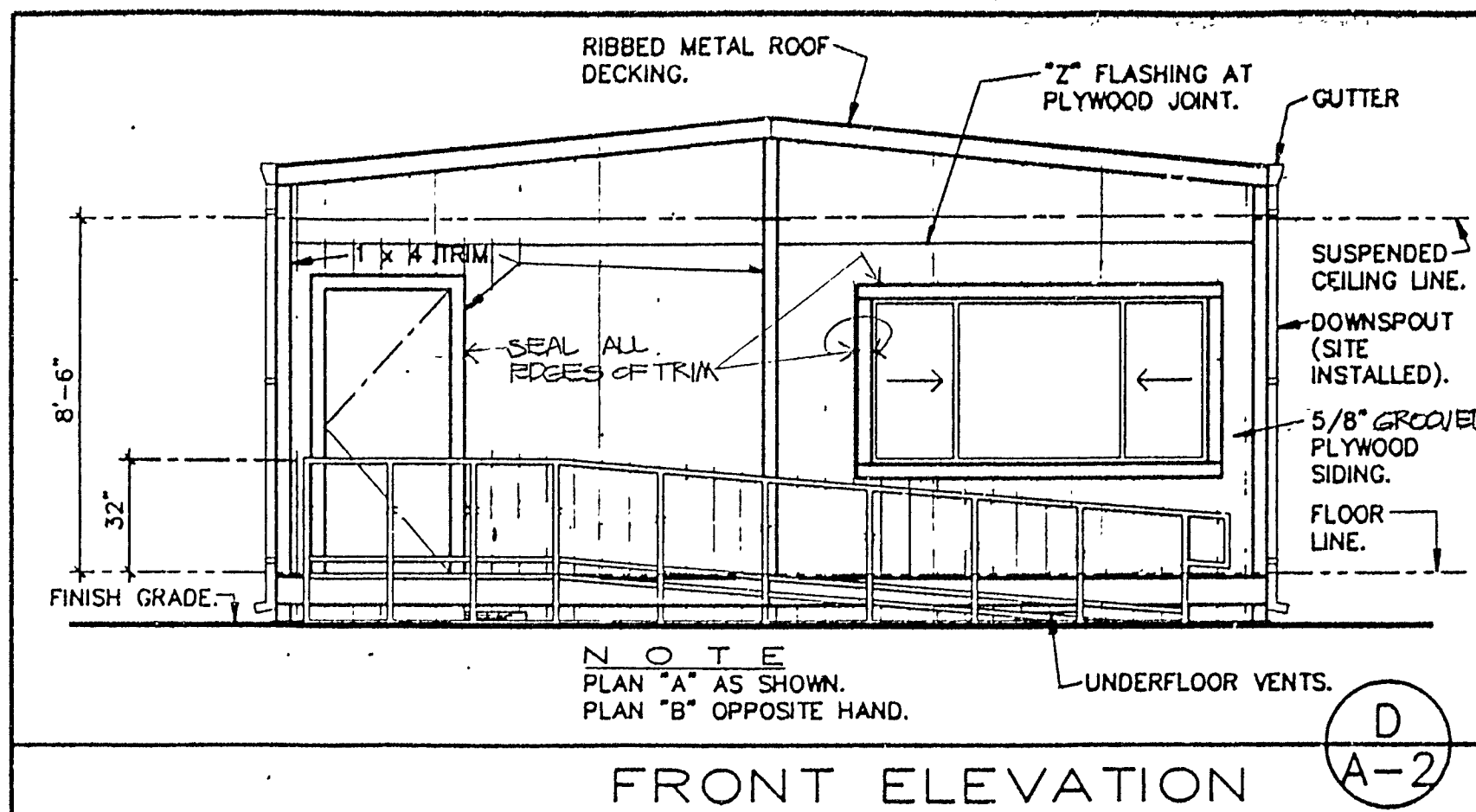
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STD OLA

SHEET NO.  
A-1  
OF 3









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ENGINEERING & CONSTRUCTION DIVISION  
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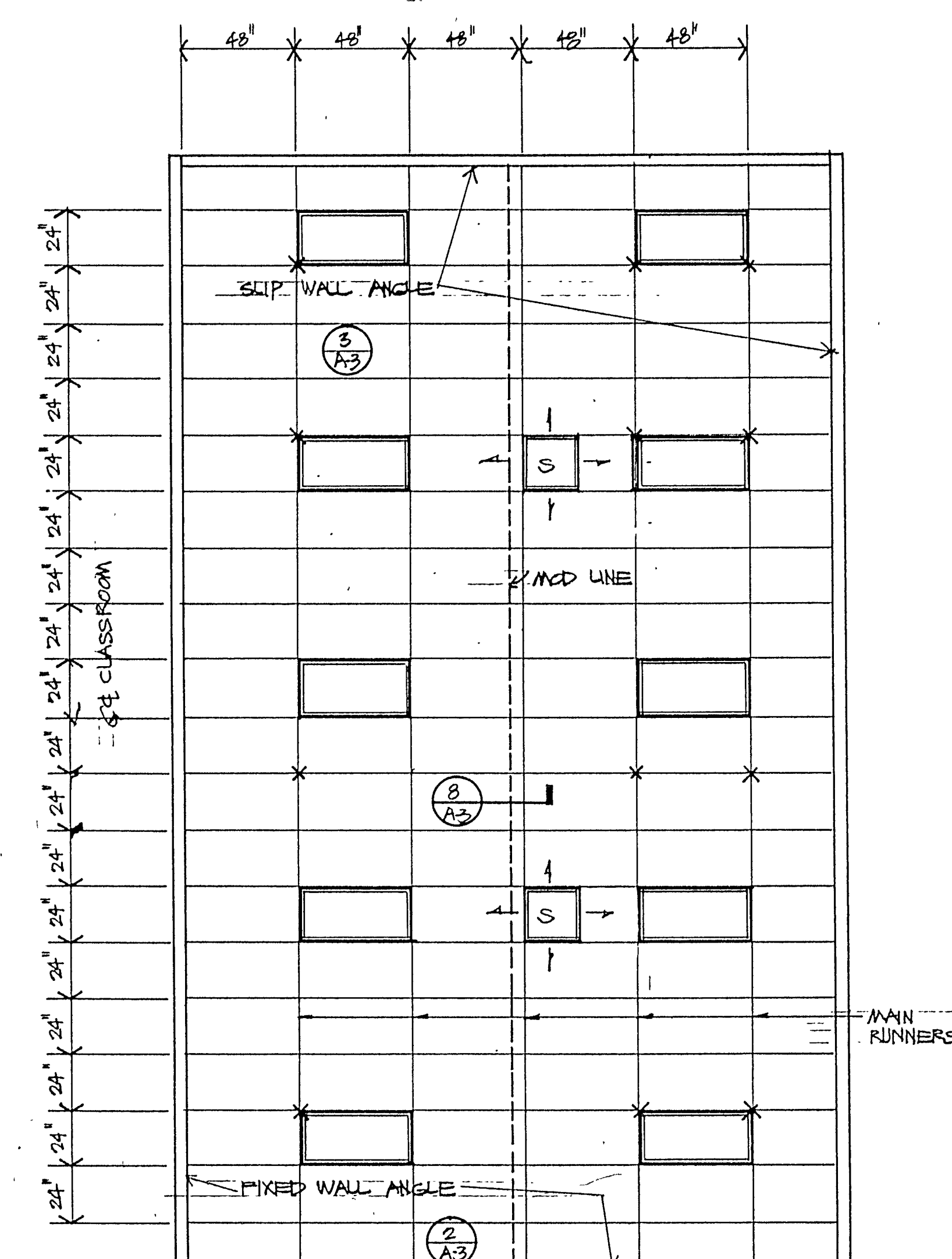
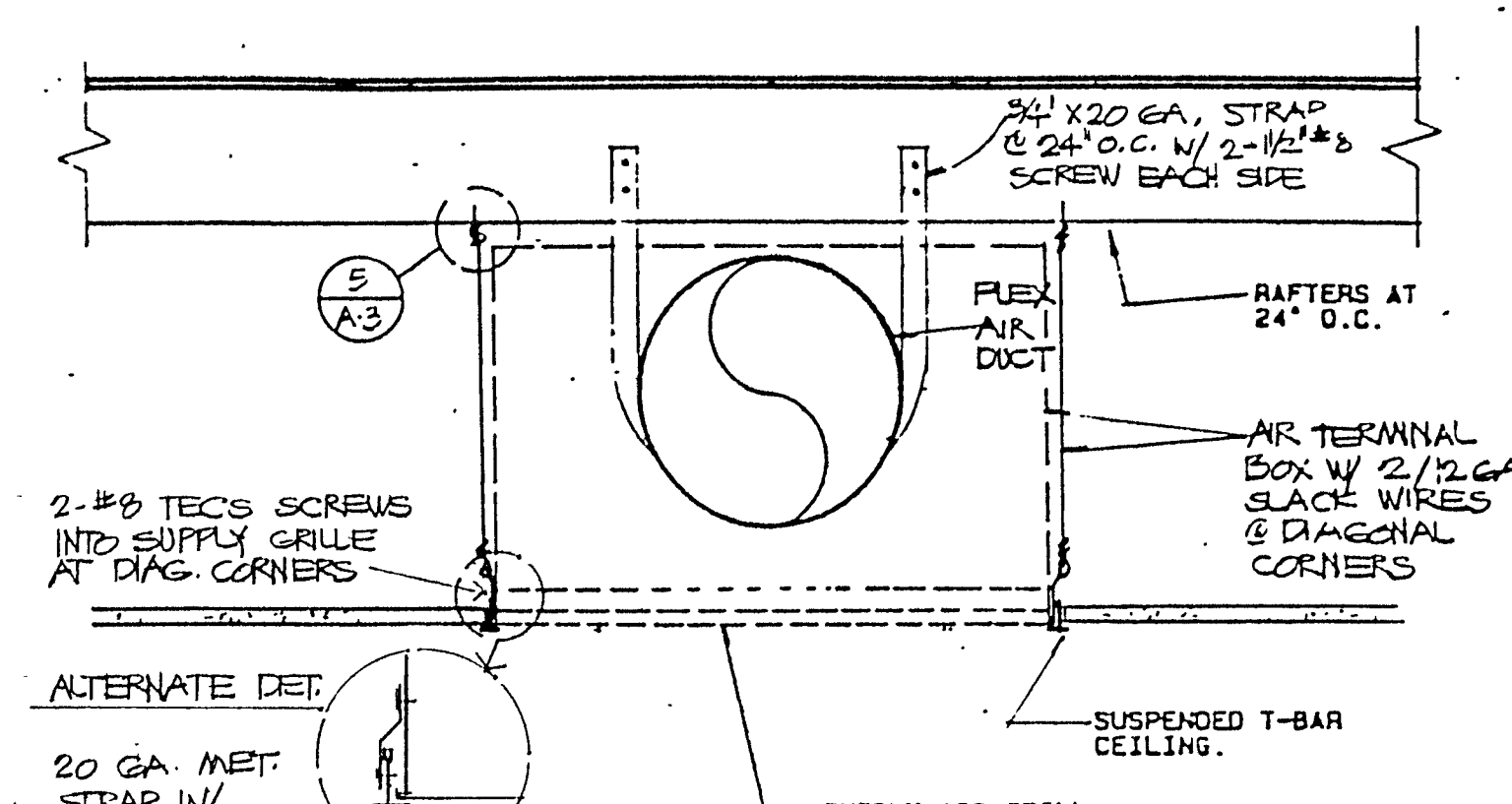
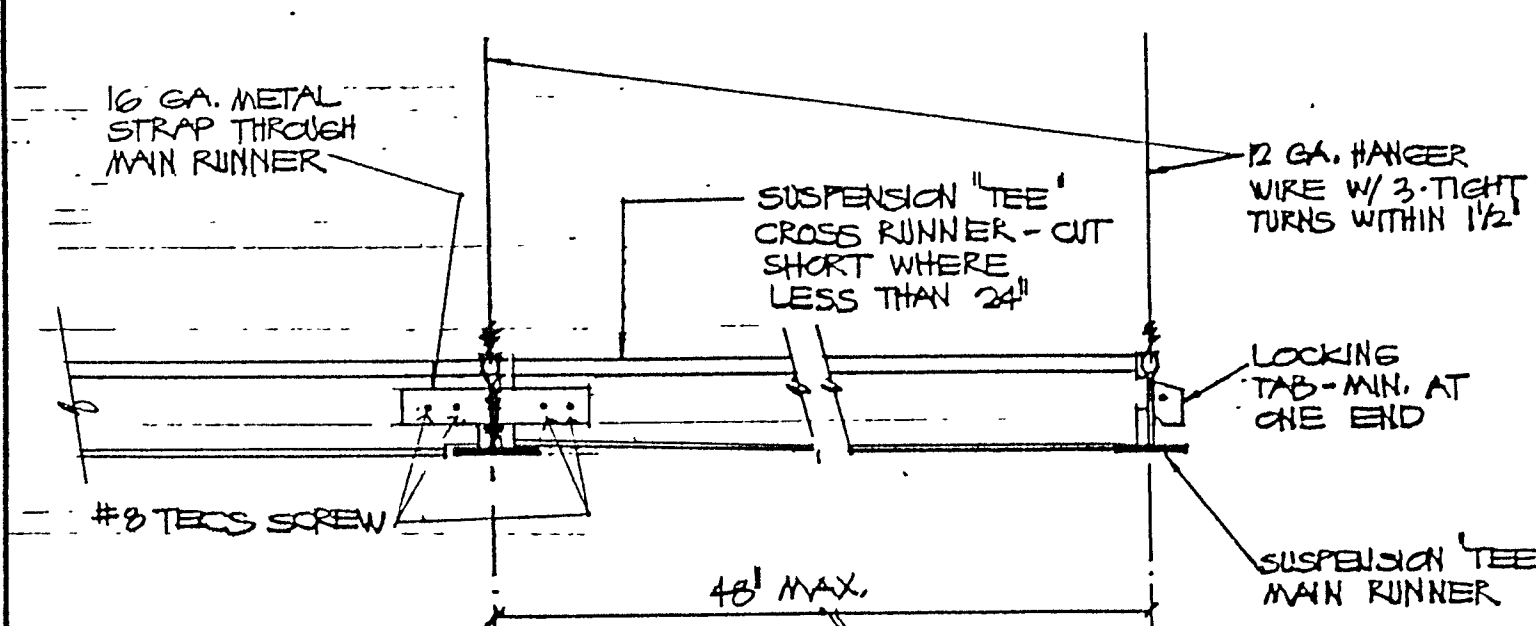
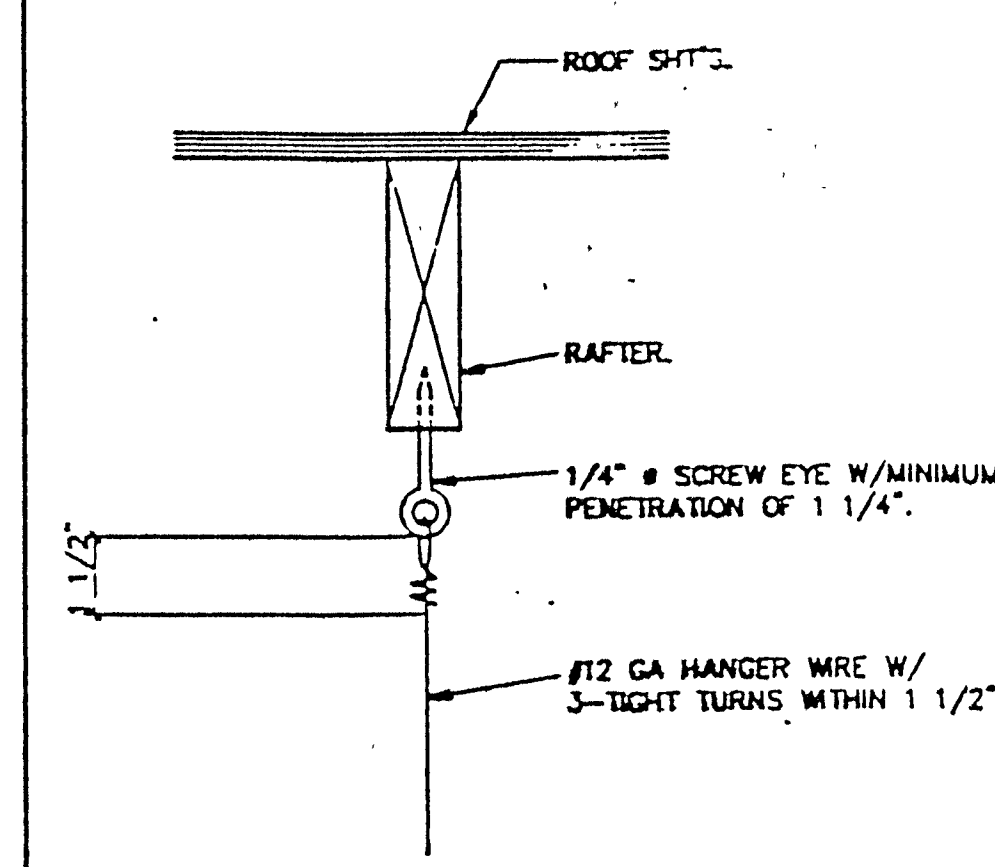
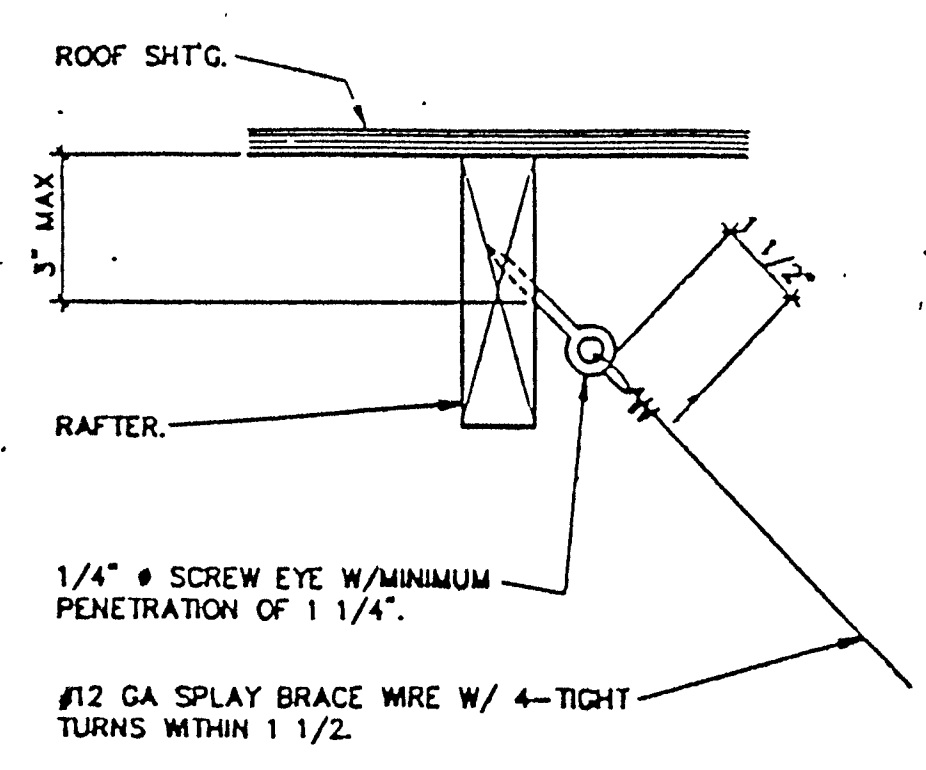
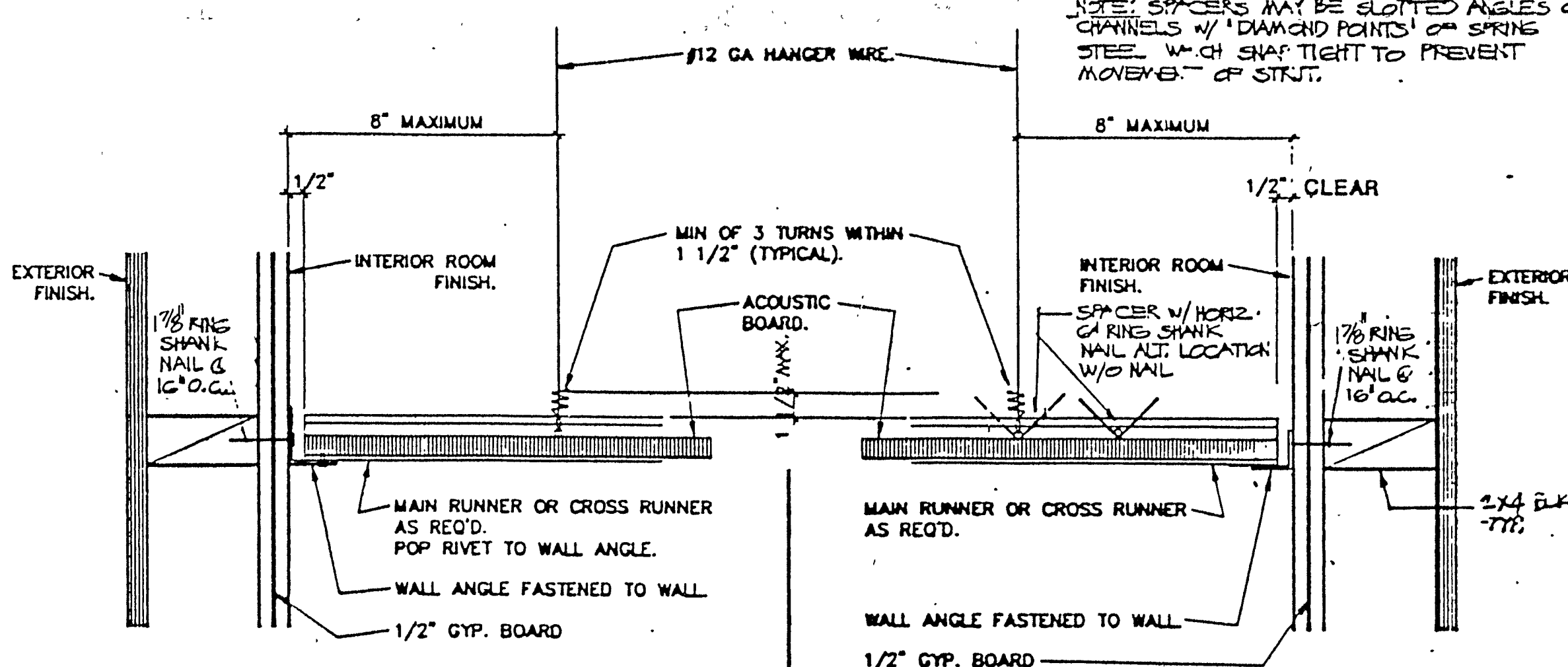
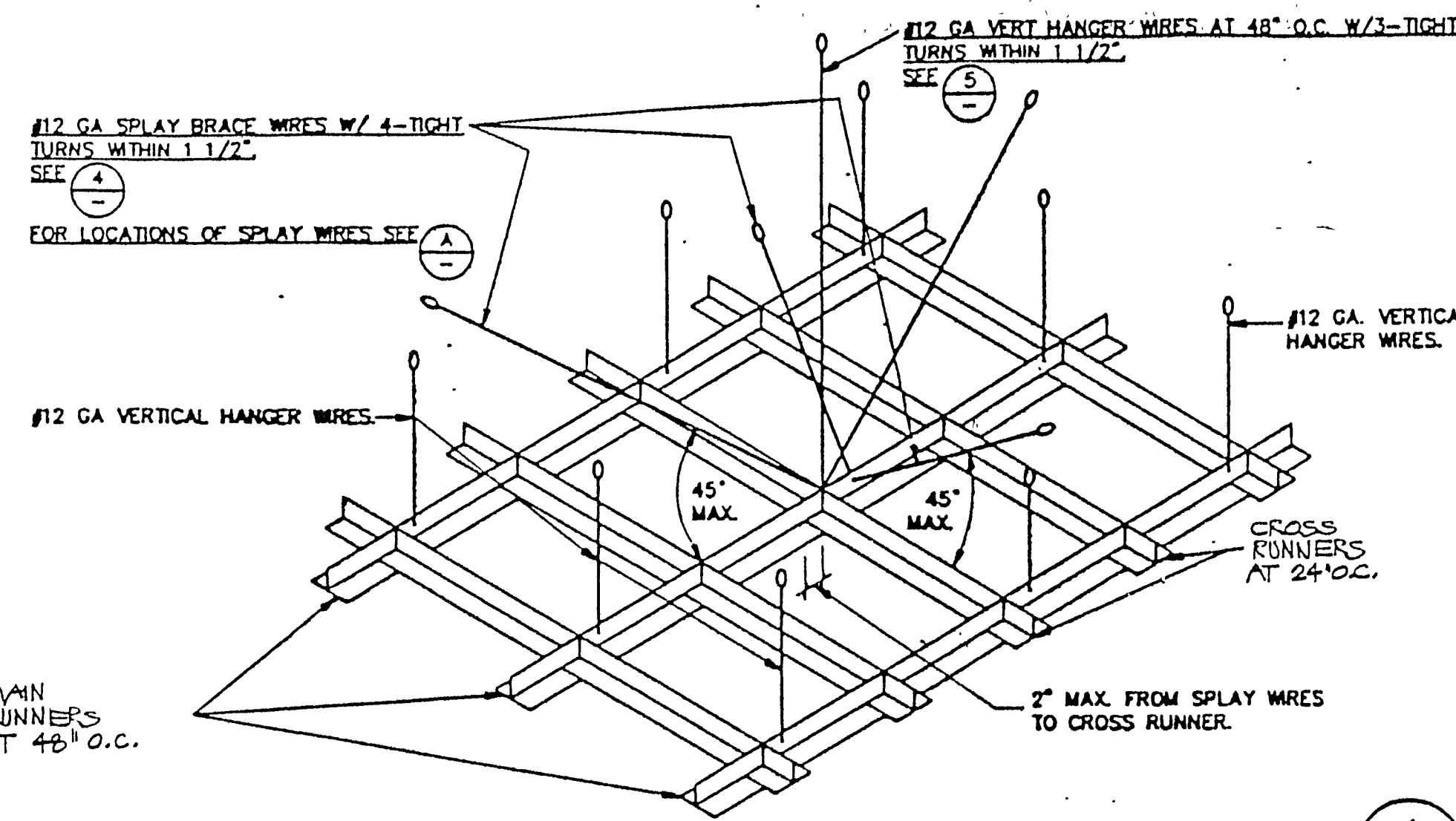
ROOF PLAN AND DETAILS  
EXTERIOR ELEVATIONS

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DRAWN BY: A.M. J.A.  
CHECKED BY: D.W.  
SERIAL NO.

REVISIONS					
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PROJECT NO. 28-224 STD OLA  
SHEET NO. A-2





- METAL SUSPENSION SYSTEMS FOR LAY-IN PANEL CEILING**
- 12-GA. (MIN.) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4'-0" X 4'-0" GRID SPACING. SPICES WILL NOT BE PERMITTED IN ANY HANGER WIRES UNLESS SPECIFICALLY APPROVED BY OSA/SSS.
  - PROVIDE HANGER WIRES WITHIN 8" OF THE ENDS OF ALL MAIN AND CROSS RUNNERS OR AT 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, AT THE PERIMETER OF THE CEILING AREA.
  - PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO MAINTAIN HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS, OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS, OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTERBRACED WIRES.
  - CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHOULD BE AT LEAST 1/2" FREE OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE AND A MINIMUM OF 1/2" CLEAR OF WALL.
  - AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16-GA. WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED, WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12" OR LESS. THIS INTERLOCK IS NOT REQUIRED.
  - PROVIDE SETS OF 4-#12-GA. SPLAYED BRACING WIRES ORIENTED 90° FROM EACH OTHER AT THE FOLLOWING SPACING:
    - FOR SCHOOL BUILDINGS, PLACE SETS OF SPLAY WIRES AT A SPACING NOT MORE THAN 12 FEET BY 12 FEET ON-CENTER.
    - PROVIDE SPLAY WIRES AT LOCATIONS NOT MORE THAN 1/2 THE ABOVE SPACINGS FROM EACH PERIMETER WALL OR AT THE EDGE OF VERTICAL CEILING OFFSETS.
 THE SLOPE OF THESE WIRES SHOULD NOT EXCEED 45° FROM THE PLANE OF THE CEILING AND SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO LIFT. SPICES IN BRACING WIRES ARE NOT PERMITTED WITHOUT SPECIAL OSA/SSS APPROVAL.
  - FASTEN HANGER WIRES WITH NOT LESS THAN 3 TIGHT TURNS. FASTEN SPLAY WIRES WITH 4 TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1-1/2". HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE WIRE ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE FORCES ACTING ON THE WIRE.
  - SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 6" FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC. IT IS ACCEPTABLE TO ATTACH LIGHT-WEIGHT ITEMS, SUCH AS A SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4" NOMINAL DIAMETER, TO HANGER WIRES USING CONNECTORS ACCEPTABLE TO OSA/SSS.
  - ATTACH ALL LIGHT FIXTURES AND AIR TERMINALS TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SEE DET. 7.
  - FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING LESS THAN 56 POUNDS MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY-DUTY GRID SYSTEM, BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF 2-#12-GA. SLACK SAFETY WIRES ATTACHED AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4-FT. X 4-FT. LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER.
  - ALL FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES WEIGHING 56 POUNDS OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 #12-GA. TAUT WIRES ATTACHED TO THE STRUCTURE ABOVE, REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED.
 

THE 4 TAUT #12-GA. WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE UNIT
  - CLASSIFICATION OF CEILING GRID:
 

CLASSIFICATION OF CEILING GRID IS HEAVY DUTY  
 MANUFACTURER'S CATALOG NUMBER - MAIN RUNNER: DORN DX26 HEAVY DUTY  
 MAIN TEE OR EQUAL  
 MANUFACTURER'S CATALOG NUMBER - CROSS RUNNER: DORN DX424 CROSS TEE  
 MANUFACTURER'S CATALOG NUMBER OF STARTER: DORN M-7

A/C SUPPLY AIR GRILL SUPPORT

LIGHT FIXTURE ATTACHMENT

REFLECTED CEILING PLAN

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24'x40' STANDARD O.L.A. MODULAR  
 RELOCATABLE CLASSROOM BUILDINGS  
 REFLECTED CEILING PLAN AND NOTES  
 DETAILS

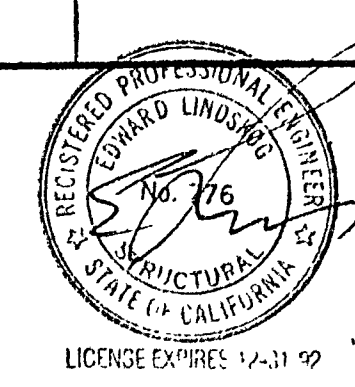
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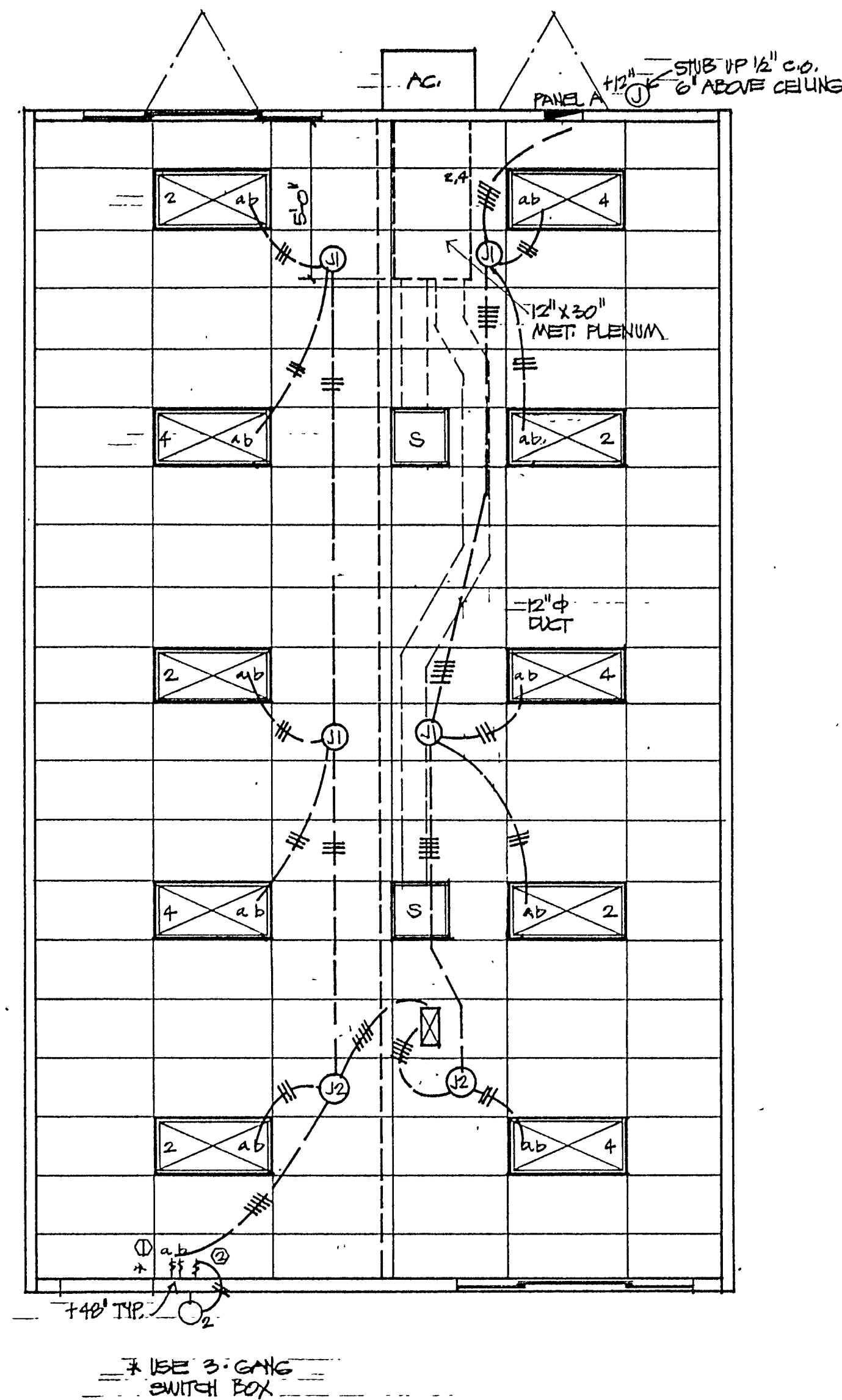
PROJECT NO. 88-224  
 STD OLA  
 SHEET NO. A-3

COPIES OF THE WORK SUBMITTED  
 STRUCTURAL SAFETY SECTION  
 12/11/87

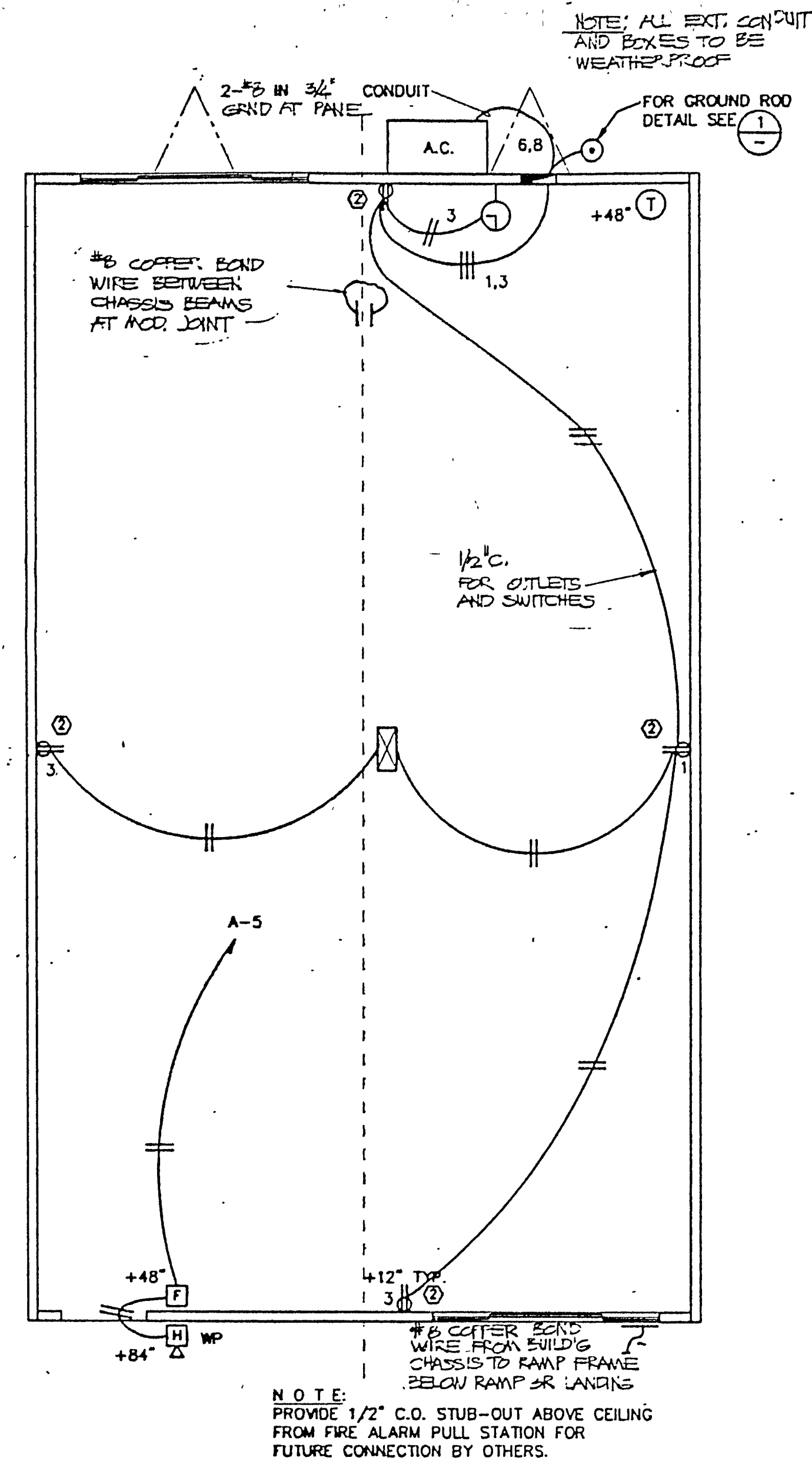
APPROVED: P. McConitt  
 REGISTERED PROFESSIONAL ENGINEER  
 LICENSE NO. 4771
























HVAC DISTRIBUTION AND ELECTRICAL LIGHTING PLAN



ELECTRICAL PLAN

ELECTRICAL AND MECHANICAL SYMBOLS		
SYMBOL	DESCRIPTION	QTY.
	LIGHTING AND POWER PANEL 120/240V 1PH 3W FLUSH MTD. NEMA 1-100A. MAIN BRK. CROUSE-HINDS LC10B/MF	1
	BARD END MT. A/C W/HEAT PUMP. 450W/1-A21EDC24(8KW) 240V. 1 PHASE OR INTERSTHEAN PUX032	1
	FLOURESCENT LTG. FIXTURE - RECESSED 4 TUBE 2' x 4' - LITHONIA ZGT. W/ ENERGY SAVING LAMPS - 35W. CCL WHITE	10
	PORCH LIGHT - 1 (100 W.) INCANDESCENT - FAIR-SAFE 180 752	1
	SINGLE POLE SWITCH - 120V 20A. +48" BRYANT 4801 I	3
	DUPLEX RECEPTACLE - 120V. 20A. HOSPITAL GRADE PASS & SEYMOR 9200 HS +12"	4
	WHITE - RODGERS IP12	1
	CLOCK OUTLET EAGLE 742BD AND EDWARDS CLOCK 1882A	1
	MANUAL FIRE ALARM PULL STATION. NOTIFIER B.M. - ITS CALIF. F.M. #7150-028:3 +48"	1
	HORN - WHEELOCK <del>311-318</del> CALIF. F.M. #7135-285:3 - 15" 7143 - 785:1 LOUDNESS RATING: 90db AT 1 METER.	1
	GROUND ROD 1/2" COPPER CLAD STEEL 8" LONG.	1
	CROSSOVER BOX - 4" x 1 1/2"	2
	JUNCTION BOX 45WFB 1/2	9
	JUNCTION BOX 550VFB 1/2	2
	BOX - 45WFB RING - 4064	1
	BOX - 45WFB RING - 4054	5
	DIFFUSER 2" x 4" - KRUEGER #154 - 4 WAY THROW	2

NOTE: THE TYPE OF FIRE ALARM SYSTEM AND/OR COMPONENTS MAY HAVE TO BE CHANGED DUE TO THE SITE, EXISTING SITUATIONS, OR INCOMPATIBLE COMPONENTS. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL FOR THIS FIRE ALARM AT ALL SITES.

VOLTS: 120/240 V		PANEL: A		FEED: BOTTOM	
MAIN: 100 A		LOCATION: SEE PLAN		MOUNTING: FLUSH-NEMA	
LOAD	WATTS	BREAKER	WATTS	LOAD	WATTS
RECEPTACLES	360	20 1 1	360	LIGHTING	770
RECEPTACLES	360	20 1 3	720	LIGHTING	770
FIRE ALARM	40	20 1 5	440	A/C	4476
SPACE		7	4476	A/C	4476
		9			
		11			
		13			
		15			
		17			
WATTS/PHASE A: 5746	400	360	5246	WATTS/PHASE	
TOTAL WATTS	59.3	AMPS	120/240	VOLTS	1 Ø
NCL-760	LCL: 10592	X1.25 = 13240	+760 = 14000	FEEDER 3-#2 AND 1-#6 GROUND	

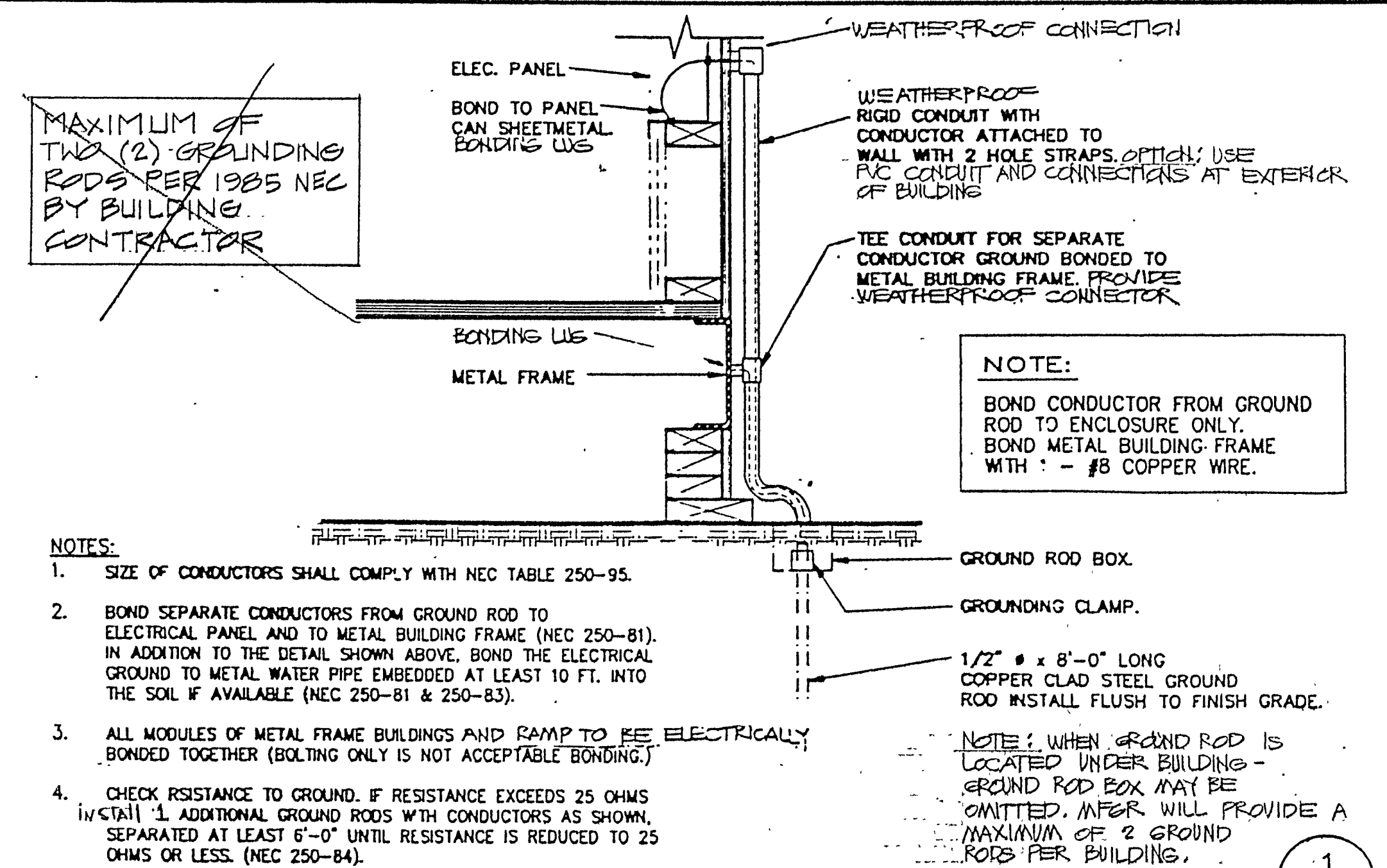
MECHANICAL AND ELECTRICAL NOTES:

- MAIN SERVICE TO PANEL BY OTHERS.
- OVERCURRENT DEVICES SHALL HAVE ADEQUATE SHORT CIRCUIT INTERRUPTING CAPACITY.
- ALL CONDUCTORS SHALL BE COPPER WIRING IN FLEX OR EMT. USE 1/2" #12 WIRE U.O.N. OUTLETS & SWITCHES TO BE 12/2 ROMEX W/ GROUND. SWITCH TWO TUBES EACH OF FOUR TUBE LIGHTING FIXTURE TO REDUCE LIGHTING UNIFORMITY.
- STEEL BUILDING FRAME AND THE ELECTRICAL SYSTEM SHALL BE BONDED TO A COMMON GROUNDING LUG TO THE PANEL. GROUNDING ALL RACEWAY SYSTEMS, FIXTURES, OUTLETS, MOTORS.
- EQUIPMENT ENCLOSURES AND METAL BUILDING MUST BE PERMANENTLY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH THE 1984 NEC. CAC. TITLE 8.19, AND LOCAL CODES.

- DUCTWORK: IN ACCESSIBLE CONCEALED PORTIONS OF DUCT SYSTEM RIGID 1" FIBERGLASS OR INSULATED "FLEXDUCT" WITH VAPOR BARRIER MAY BE SUBSTITUTED FOR SHEET METAL DUCTWORK. ALL DUCTWORK WITHIN 5' OF THE HVAC UNIT AND ALL INTERFACE CONNECTIONS SHALL BE METAL. DUCTWORK AND REINFORCEMENT SHALL BE DESIGNED FOR 2" STATIC PRESSURE. REFERENCE BRANDS: OWENS-CORNING FIBERGLASS DUCT BOARD, 1" THICK, AND "MANVILLE" MICRO-AIRE, TYPE 475. NON-METALLIC DUCTWORK SHALL CONFORM TO NFPA 90-A AND 90-B AND SMACNA CLASS 1 RATING.
- THERMOSTAT: FRED-DE WHITE-RODGERS 1F92. ELECTRONIC PROGRAMMABLE THERMOSTAT. PROVIDE LOCKING, CLEAR THERMOSTAT COVER WITH ACCESS HOLE FOR TEMPERATURE UP AND DOWN BUTTONS. THERMOSTAT SHALL HAVE THE FOLLOWING FUNCTIONS: A. 5 AND 2 WEEKDAY/WEEKEND PROGRAMMING WITH 4 SEPARATE TIME/TEMPERATURE SETTINGS PER 24-HOUR PERIOD.

- KEY BOARD LOCKOUT SWITCH.
- PROGRAMMABLE DISPLAY.
- 3-HOUR OVERRIDE.
- STATUS INDICATED LEDS.
- BATTERY BACK-UP.
- DUCTWORK SUSPENSION AND SEISMIC BRACING SHALL BE IN ACCORDANCE WITH SMACNA STANDARDS.
- ALL MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:

FIXED EQUIPMENT ON GRADE: 25% OF OPERATING WEIGHT  
FIXED EQUIPMENT ON STRUCTURE: 25% OF OPERATING WEIGHT  
EMERGENCY POWER EQUIPMENT ON GRADE: 35% OF OPERATING WEIGHT  
EMERGENCY POWER EQUIPMENT ON STRUCTURE: 50% OF OPERATING WEIGHT  
FOR FLEXIBLY MOUNTED EQUIPMENT USE 2 X THE ABOVE VALUES. SIMULTANEOUS VERTICAL FORCE - USE 1/3 X HORIZONTAL FORCE.  
WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT AND THE FIELD REPRESENTATIVE OF THE OFFICE OF THE STATE ARCHITECT.



- NOTES:
- SIZE OF CONDUCTORS SHALL COMPLY WITH NEC TABLE 250-95.
  - BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELECTRICAL PANEL AND TO METAL BUILDING FRAME (NEC 250-81). IN ADDITION TO THE DETAIL SHOWN ABOVE, BOND THE ELECTRICAL GROUND TO METAL WATER PIPE EMBEDDED AT LEAST 10 FT. INTO THE SOIL IF AVAILABLE (NEC 250-81 & 250-83).
  - ALL MODULES OF METAL FRAME BUILDINGS AND RAMP TO BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING).
  - CHECK RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS INSTALL 1 ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN. SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (NEC 250-84).

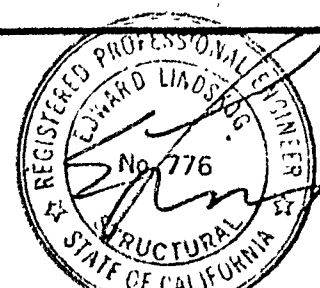
GROUNDING DETAIL

OFFICE OF THE STATE ARCHITECT  
STRUCTURAL SAFETY DIVISION

APPROVED 190 JAN 13 1985

APPROVED BY: [Signature]

APPROVED BY: [Signature]



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24'x40' STANDARD O.L.A. MODULAR  
RELOCATABLE CLASSROOM BUILDINGS

CEILING, LIGHTING, HVAC, &  
POWER PLAN

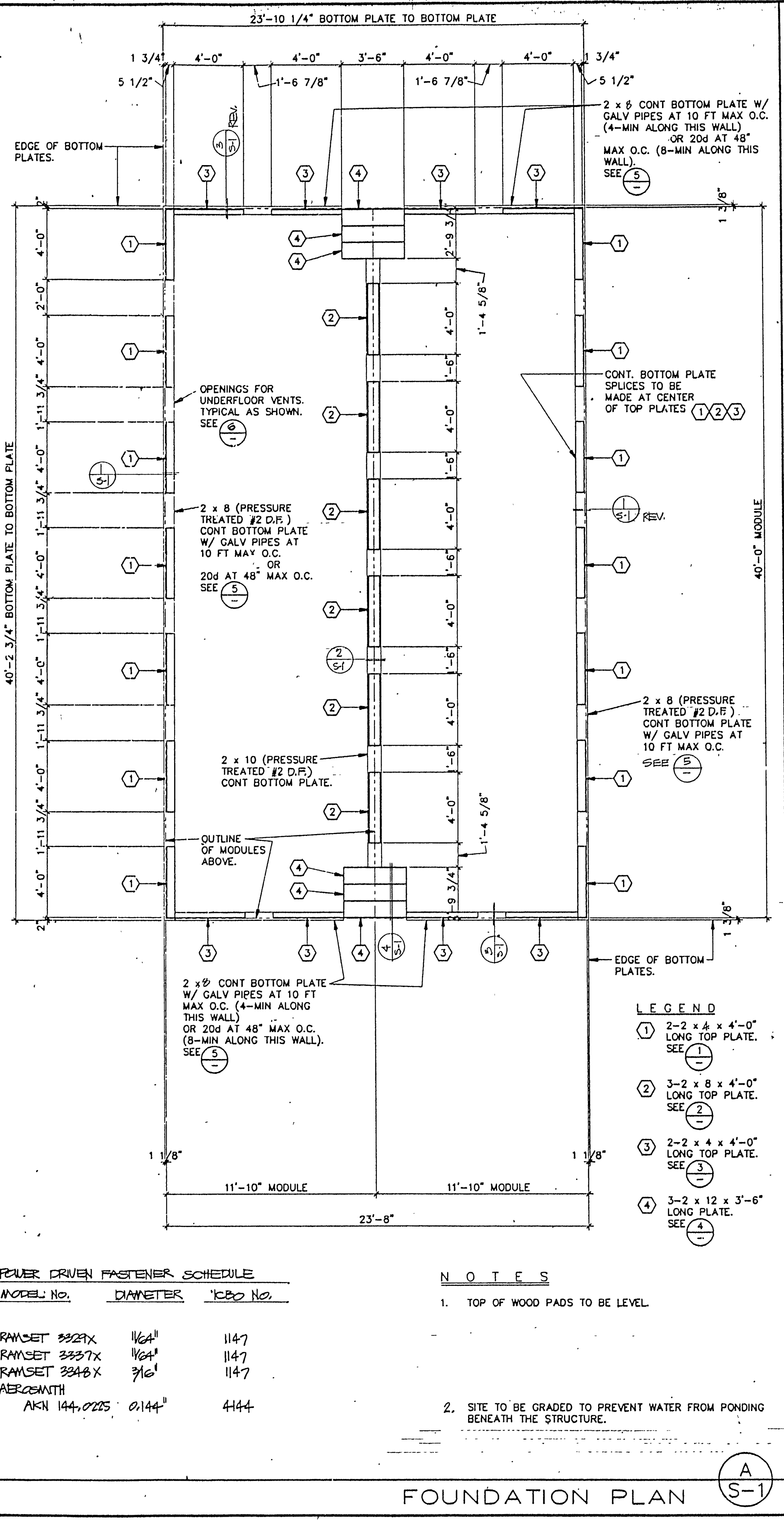
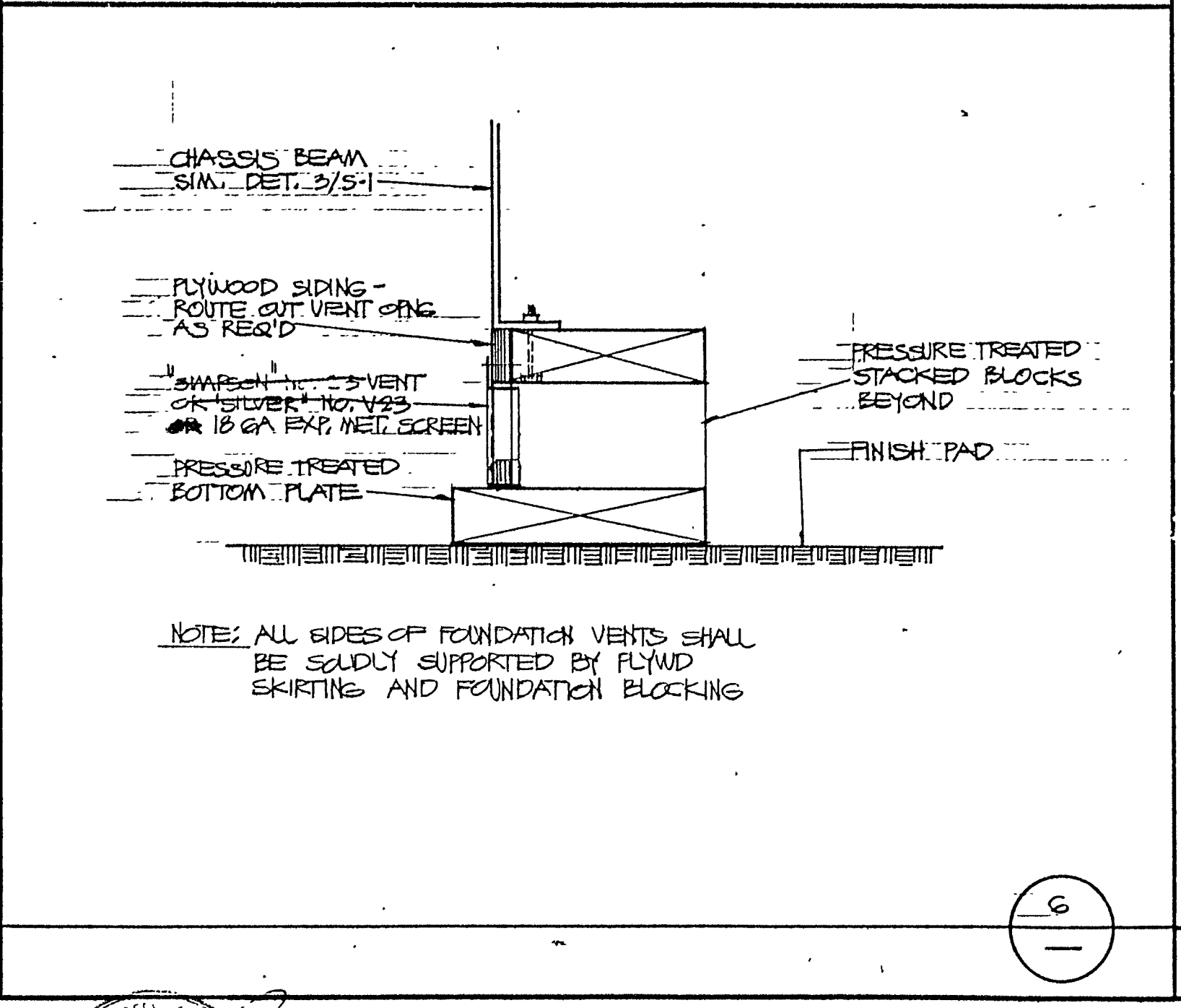
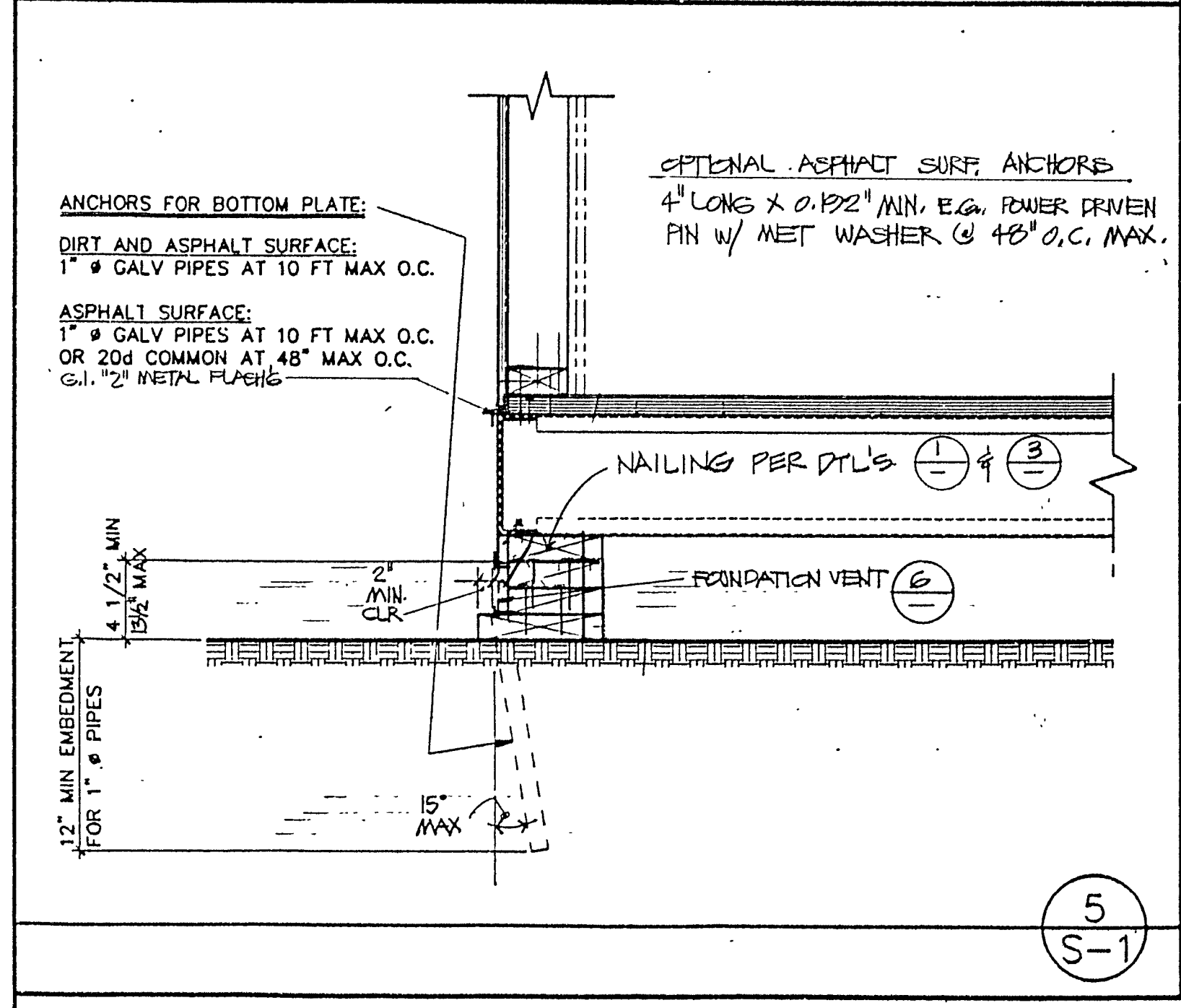
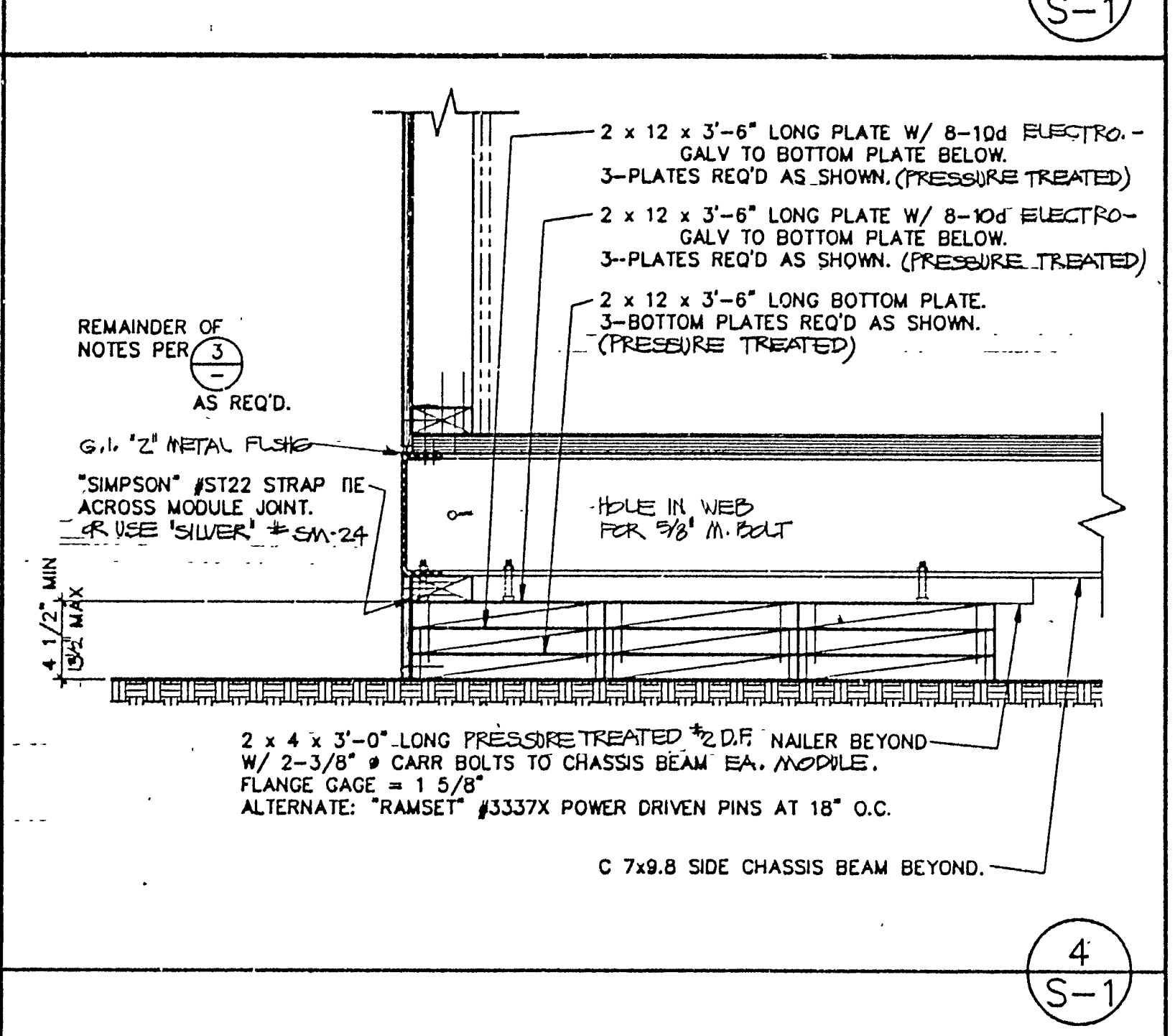
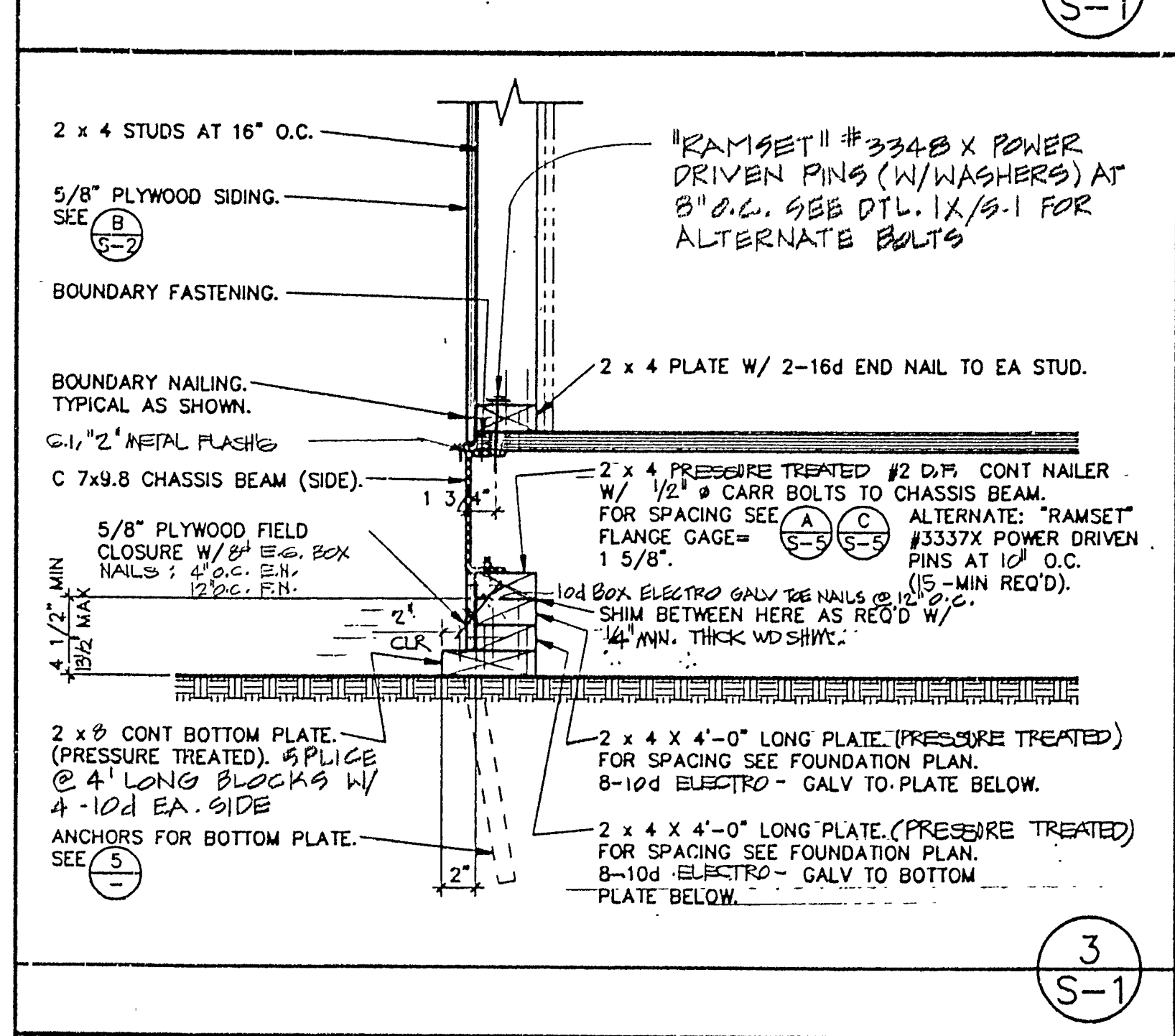
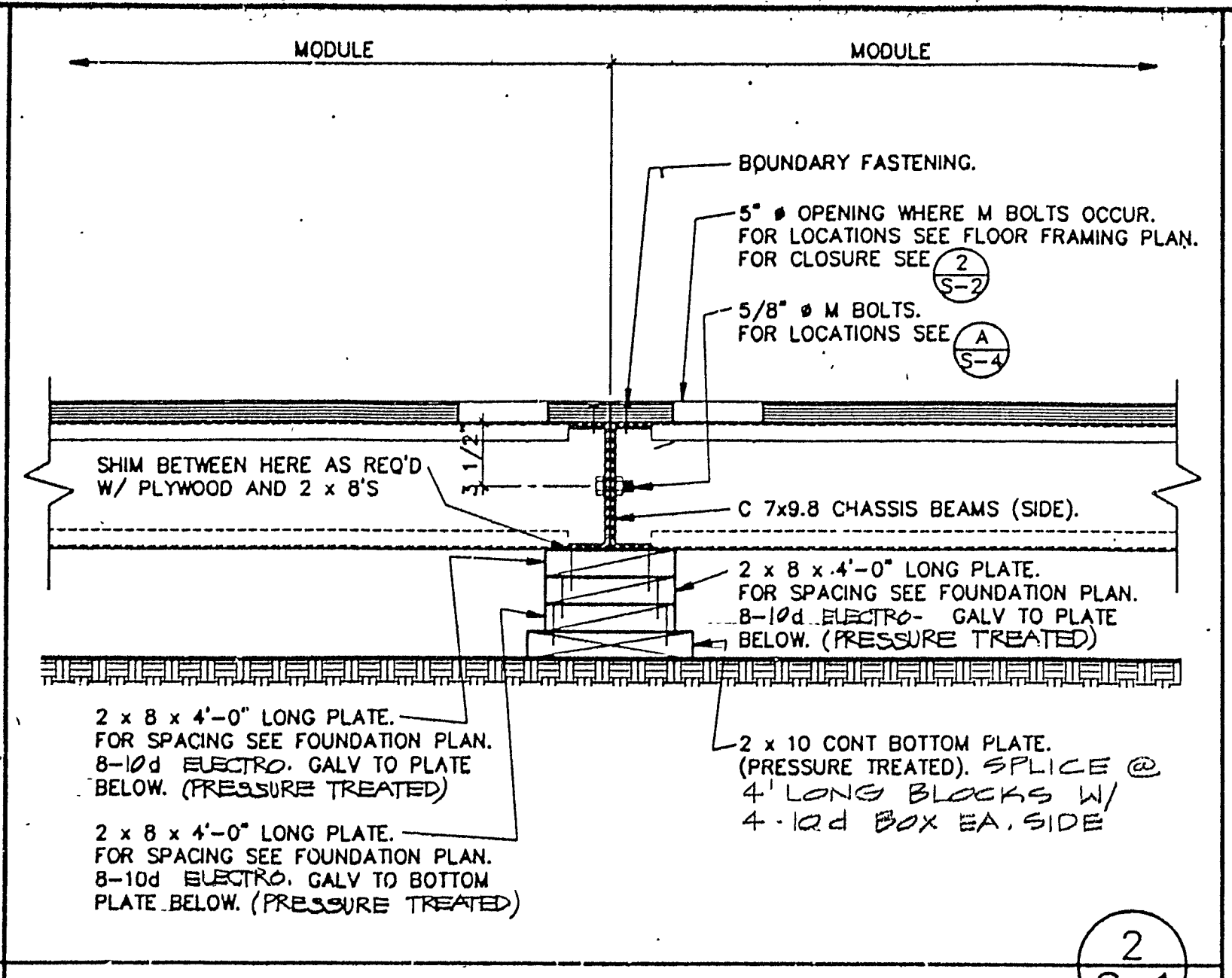
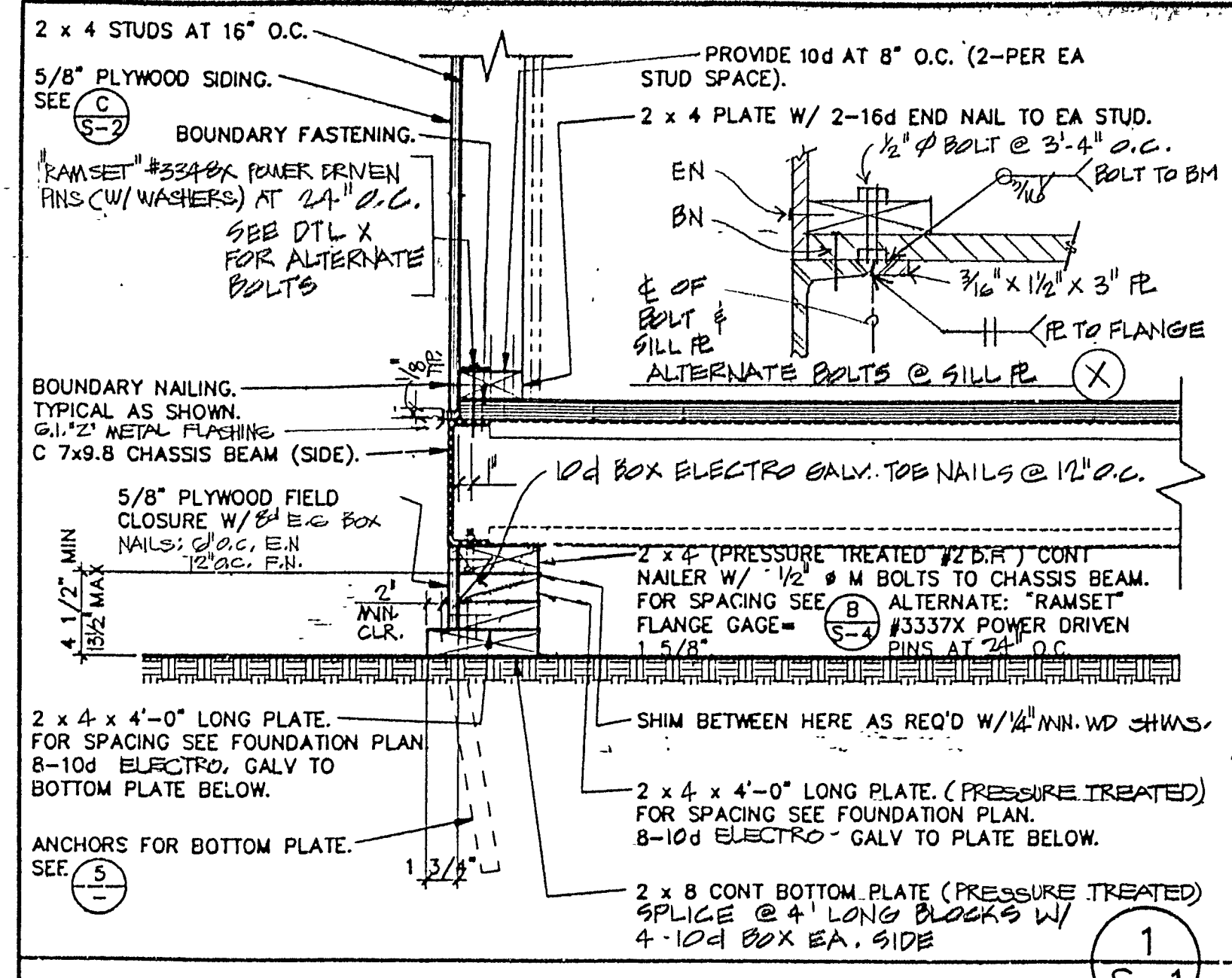
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CHECKED BY: D.W.  
CHECKED BY:  
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PROJECT NO.  
88-204  
STD OLA

SHEET NO.  
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# GENERAL CONSTRUCTION NOTES

- ALL WORK SHALL COMPLY WITH TITLE 19, 21 AND 24 OF THE CALIFORNIA ADMINISTRATIVE CODE.
  - ALL CONTRACTORS SHALL VERIFY ALL WORK CONDITIONS, DIMENSIONS, AND DETAILS, AND REPORT ANY OR ALL OMISSIONS AND DISCREPANCIES TO THE DESIGNER/OWNER IMMEDIATELY BEFORE COMMENCING WORK.
  - EACH CONTRACTOR TO BE RESPONSIBLE TO SEE THAT HIS WORK CONFORMS TO ALL GOVERNMENTAL CODES, WHETHER OR NOT SO STATED ON THE DRAWINGS.
  - ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE 2015 CALIFORNIA BUILDING CODE (CBC).
  - ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, AND ERECTED PER MANUFACTURER'S DIRECTIONS AND THESE DRAWINGS.
  - SHOP DRAWINGS MAY BE REQUIRED. IF SO, THEY WILL BE ACCURATELY DRAWN TO A LARGE ENOUGH SCALE TO SHOW ALL PERTINENT FEATURES OF THE ITEM AND ITS CONNECTION TO RELATED WORK.
  - DESIGN ROOF LIVE LOAD = 20 PSF. DESIGN FLOOR LIVE LOAD = 50 PSF. RAMP = 100 PSF. NO SNOW LOAD.
  - THE MANUFACTURER OR BUILDER IS TO PLACE A PERMANENT METAL IDENTIFICATION LABEL ON EACH MODULE, MECHANICALLY FASTENED TO THE FRAME AND VISIBLE FROM THE EXTERIOR OF THE END OF THE MODULE. SHOW THE OSA APPLICATION NUMBER AND THE MANUFACTURER'S OR BUILDER'S NAME AND SERIAL NUMBER ON THE LABEL. THE LOCATION OF THE IDENTIFICATION LABEL SHALL BE AT A HEIGHT THAT WILL PRECLUDE EASY ACCESS AND REMOVAL AND SHALL BE SHOWN ON EXTERIOR BUILDING ELEVATIONS ON DRAWINGS. FOR PROJECTS MANUFACTURED OFFSITE, THE AGENCY INSPECTOR SHALL INDICATE THE MANUFACTURER'S NAME AND SERIAL NUMBER OF EACH MODULE ON THE VERIFIED REPORT.
  - ALL CHANGES SHALL REQUIRE WRITTEN APPROVAL OF THE AGENCY ARCHITECT, OSA AND CEA PRIOR TO COMMENCING WORK.
  - ALL TESTS AND INSPECTIONS REQUIRED BY THE AGENCY ARCHITECT, OSA AND CEA SHALL BE COMPLETED WITH TESTING AGENCY INSPECTORS SHALL BE HIRED & PAID FOR BY OWNER.
- ## FOUNDATION
- ASSUMED ALLOWABLE SOIL BEARING: 1000 PSF.
  - FOOTINGS SHALL BE LOCATED ON UNDISTURBED FIRM NATURAL SOIL OR APPROVED COMPACTED FILL OR ON AN APPROVED PAVED SURFACE.
- ## STRUCTURAL STEEL AND WELDING
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36.
  - PIPE COLUMNS SHALL CONFORM TO ASTM A-53, GRADE "B," WITH SULFUR CONTENT NOT EXCEEDING 0.05%.
  - STEEL TUBING SHALL CONFORM TO ASTM A-500, GRADE "B."
  - ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS USING THE ELECTRIC SHIELDED ARC PROCESS AS FORMULATED BY THE AMERICAN WELDING SOCIETY.
  - ALL STRUCTURAL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS, WITH INSPECTION PROVIDED BY AN OSA-APPROVED INSPECTOR.
  - STRUCTURAL WELDS ARE DESIGNED FOR FULL ALLOWABLE STRESS UNLESS OTHERWISE NOTED.
  - BOLTS FOR STRUCTURAL STEEL JOINTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED. ALL HOLES FOR MACHINE AND CARRIAGE BOLTS THROUGH STEEL SHALL BE DRILLED.
  - STEEL FABRICATOR SHALL FIELD-CHECK ALL DIMENSIONS PRIOR TO ERECTION TO PROVIDE FOR A PROPER FIT.
  - STEEL MATERIALS FURNISHED BY THE STEEL FABRICATOR SHALL BE MADE AVAILABLE TO THE PROJECT ENGINEER.
  - WELDING ELECTRODE SHALL BE E60 OR E70.
  - STEEL FLOOR MEMBERS SHALL BE GIVEN A RUST-INHIBITIVE COATING.
  - LIGHT GAGE STEEL JOISTS TO CONFORM TO ASTM-570 UMBFR.
- ## LUMBER
- ALL LUMBER SHALL BE GRADE-MARKED AND CONFORM TO THE GRADING RULES ESTABLISHED BY THE WMPA OR WCLB. ALL FRAMING LUMBER SHALL BE MARKED MC-15 OR SURFACED DRY (S-DRY).
  - ROOF FRAMING:  
A. RAFTERS, RIM JOISTS, AND NAILERS: DOUGLAS FIR/LARCH, NO. 2 OR BETTER.  
BLOCKING: DOUGLAS FIR/LARCH, NO. 3 OR BETTER, OR HEMLOCK, NO. 3 OR BETTER.  
B. BEAMS: DOUGLAS FIR/LARCH, NO. 1 OR BETTER.  
C. WALL FRAMING:  
STUDS: DOUGLAS FIR/LARCH, NO. 2 OR BETTER.  
TOP AND BOTTOM PLATE(S): DOUGLAS FIR/LARCH, NO. 2 OR BETTER.  
WOOD POSTS (4 x 4) - DOUGLAS FIR/LARCH, NO. 1 OR BETTER.
  - FOUNDATION:  
PADS AND BLOCKS: PRESSURE TREATED D.F. PADS AND BLOCKS SHALL BE VERIFIED BY A CERTIFICATE OF TREATMENT STATING MATERIAL IN THIS UNIT WAS TREATED PER IBC STANDARD SECTION 25-12. ALL MATERIAL IN GROUND CONTACT SHALL BE STAMPED "FOR GROUND CONTACT" EACH PIECE SHALL BE STAMPED WITH APPROPRIATE AWPB STAMP, GRADES:  
ABOVE GROUND USE: AWPB NO. LP2  
GROUND CONTACT: AWPB NO. LP22  
SHIMS: MAY BE REDWOOD OR CEDAR-ALL HEART OR FOR GRADE AND PRESSURE TREATED D.F. PLYWOOD, ALL OUTSIDE AND RULES SHALL BE TREATED W/ COPRINOL.
  - NAILING SHALL CONFORM TO TABLE 2-25P OF TITLE 24 OF BUILDING CODE UNLESS OTHERWISE INDICATED.
  - ALL NAILS SHALL BE BOX NAILS UNLESS OTHERWISE NOTED.
  - MACHINE-APPLIED NAILING: USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE OFFICE OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR HAND HAMMER, OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
  - EXTERIOR TRIM: B-SELECT D.F. OR H.F.
- ## PLYWOOD
- PLYWOOD SHEETS SHALL CONFORM TO PS 1-83 AND SHALL BE CLEARLY STAMPED WITH THE DFPA GRADE MARK.
  - FASTENERS FOR EXTERIOR 5/8" PLYWOOD SIDING TO BE ELECTRO-GALV. NAILS PER UBC STD. 25-17 (1985).

SCOTSMAN  
ENGINEERING & CONSTRUCTION DIVISION  
2550 EAST 68TH STREET, LONG BEACH, CA. 90805 213-531-2230 OR 714-781-4553  
2419 FIRST AVENUE, GREELEY, CO. 80631 303-356-5950

24'x40' STANDARD O.L.A. MODULAR  
RELOCATABLE CLASSROOM BUILDINGS

FOUNDATION PLAN AND DETAILS  
GENERAL CONSTRUCTION NOTES

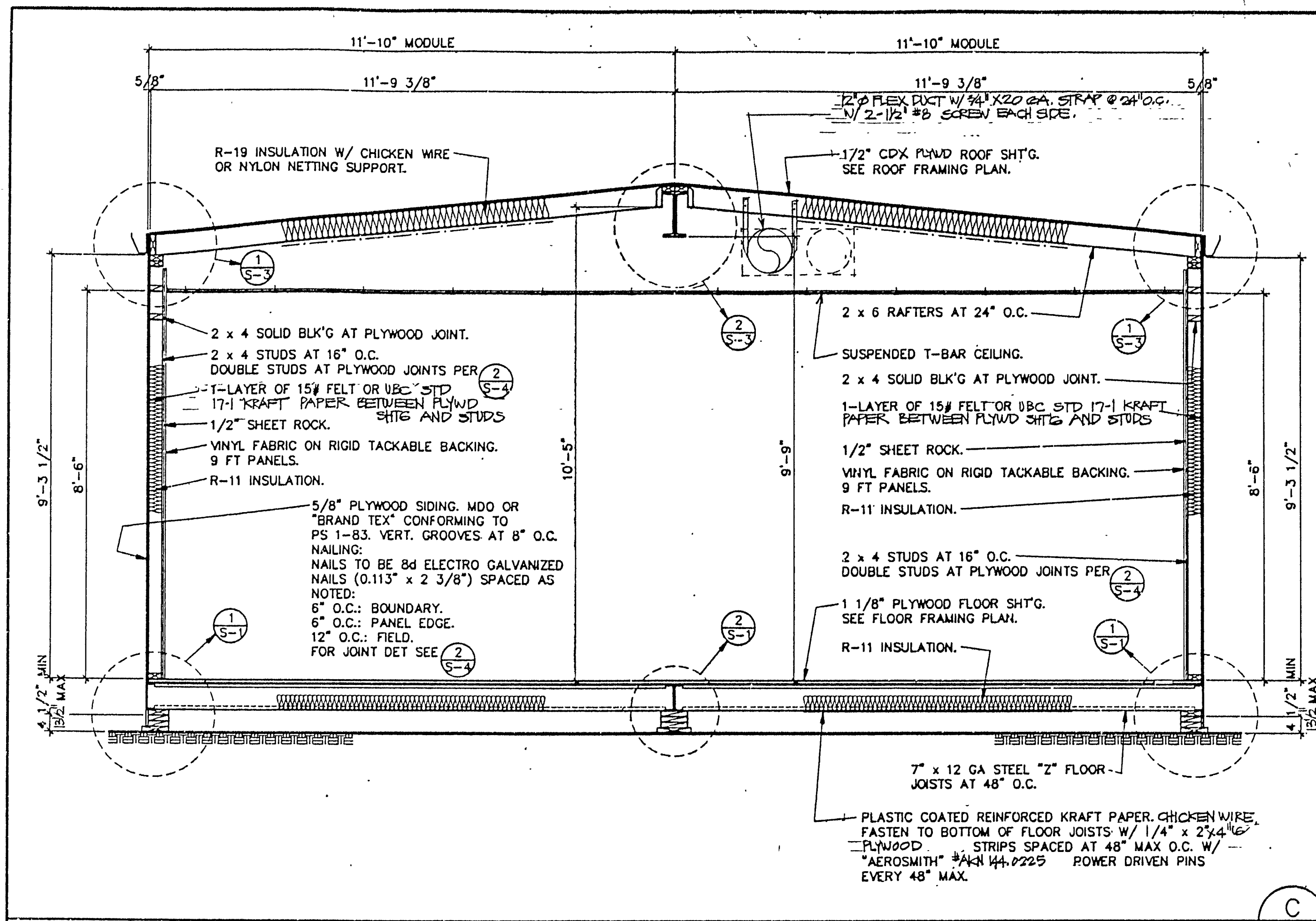
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DRAWN BY: A.M.  
CHECKED BY: D.W.  
SERIAL NO.:

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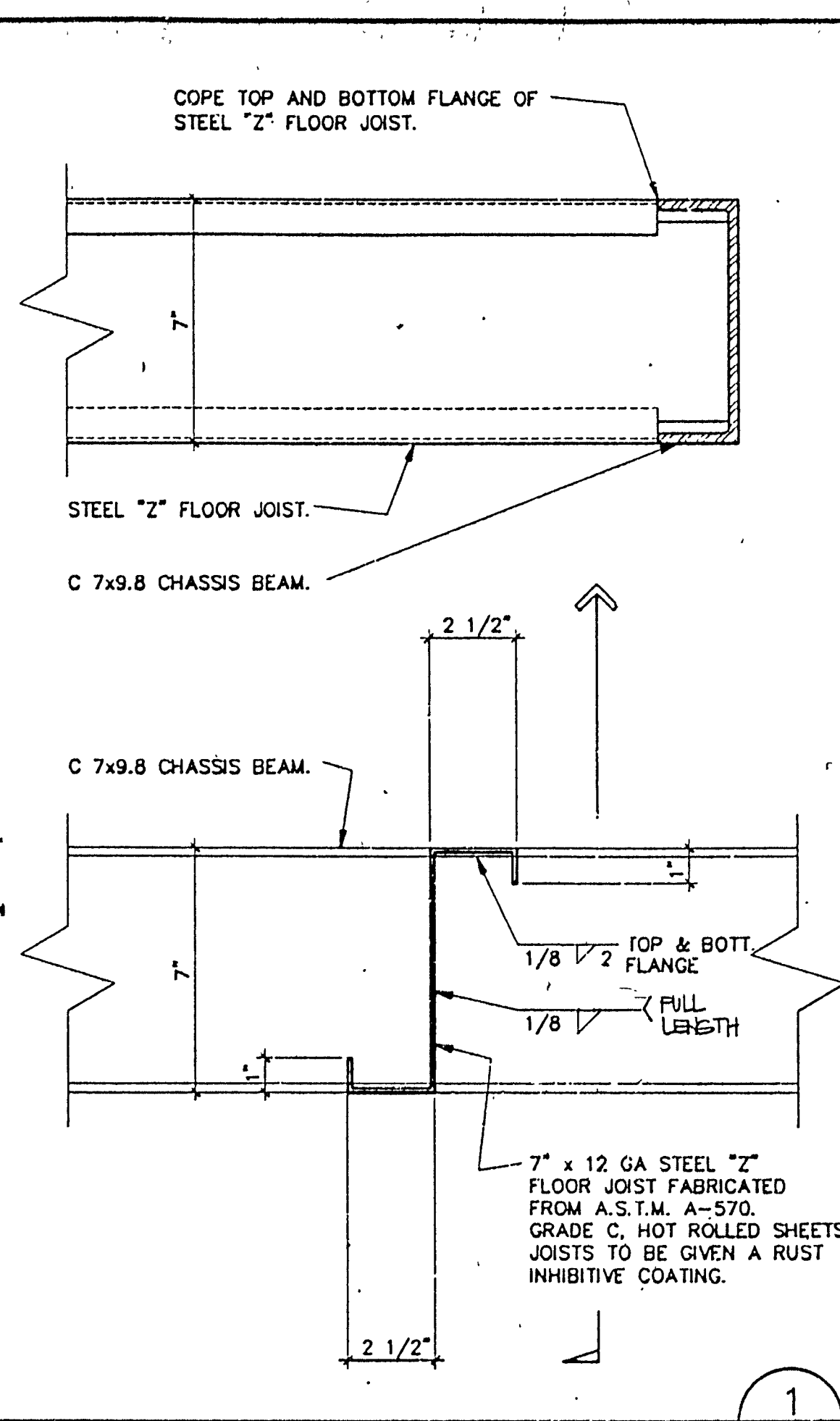
PROJECT NO. 88-204  
STD. OLA

SHEET NO. S-1  
OF 6

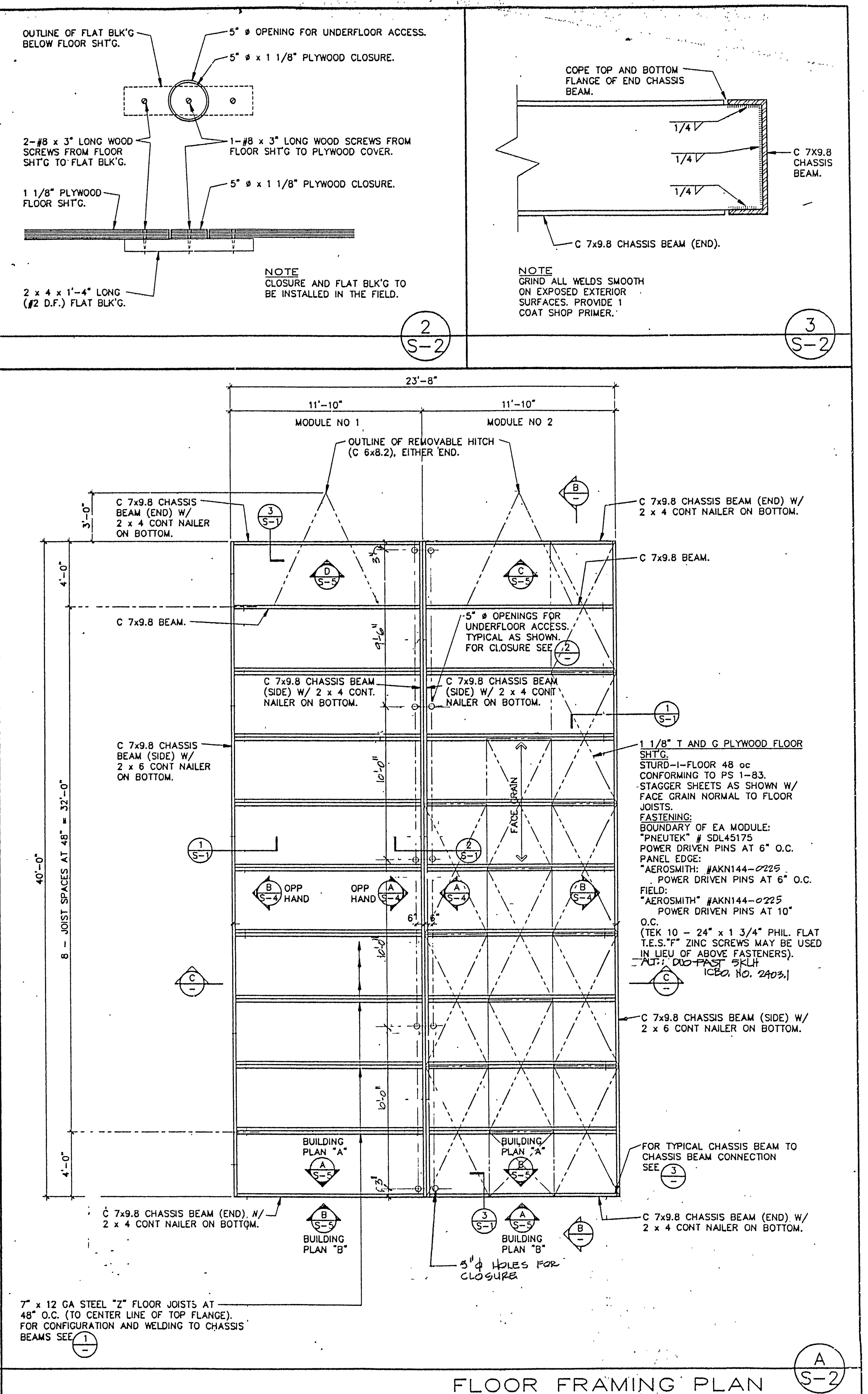




TYPICAL TRANSVERSE SECTION

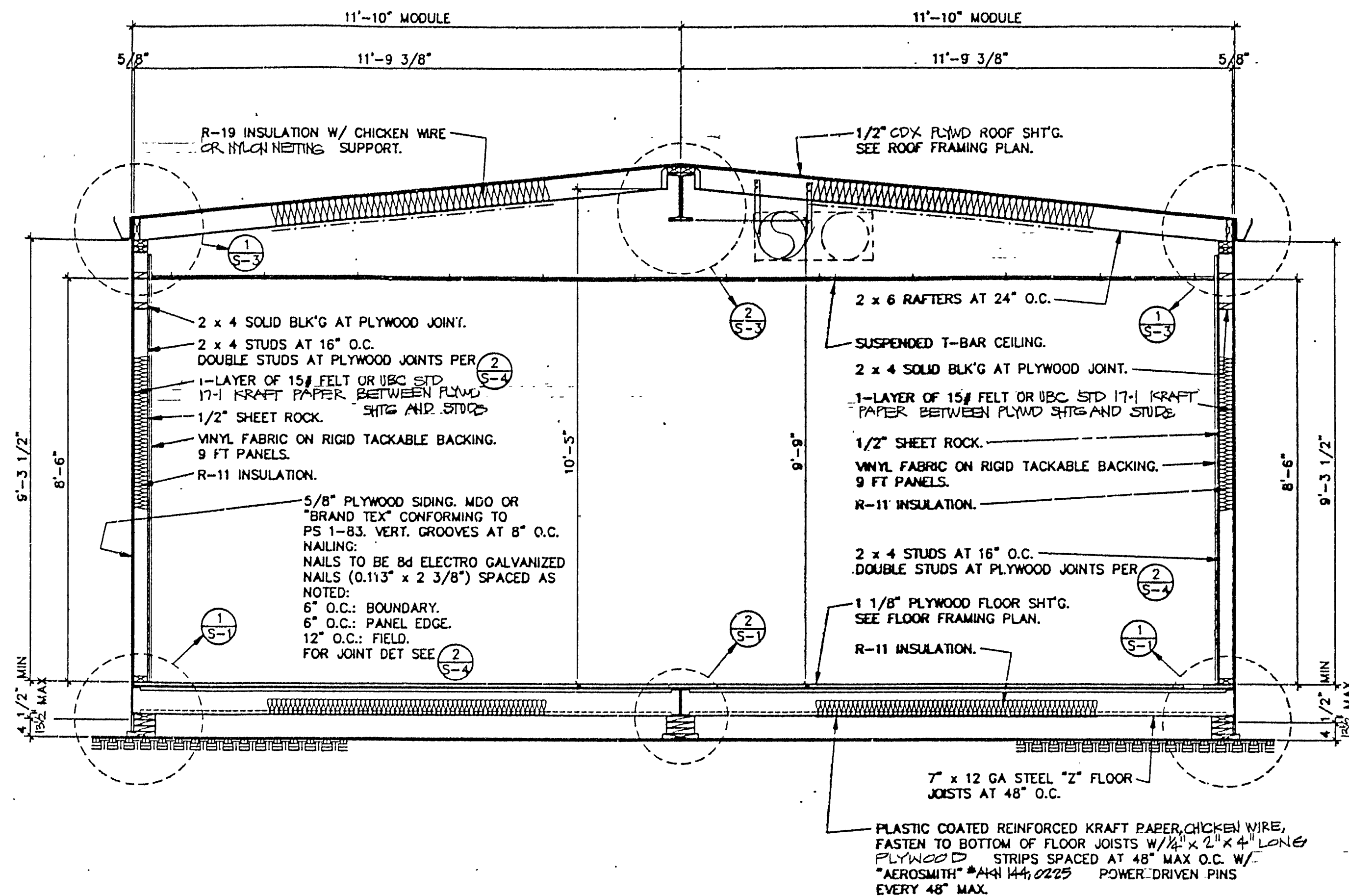


TYPICAL LONGITUDINAL SECTION

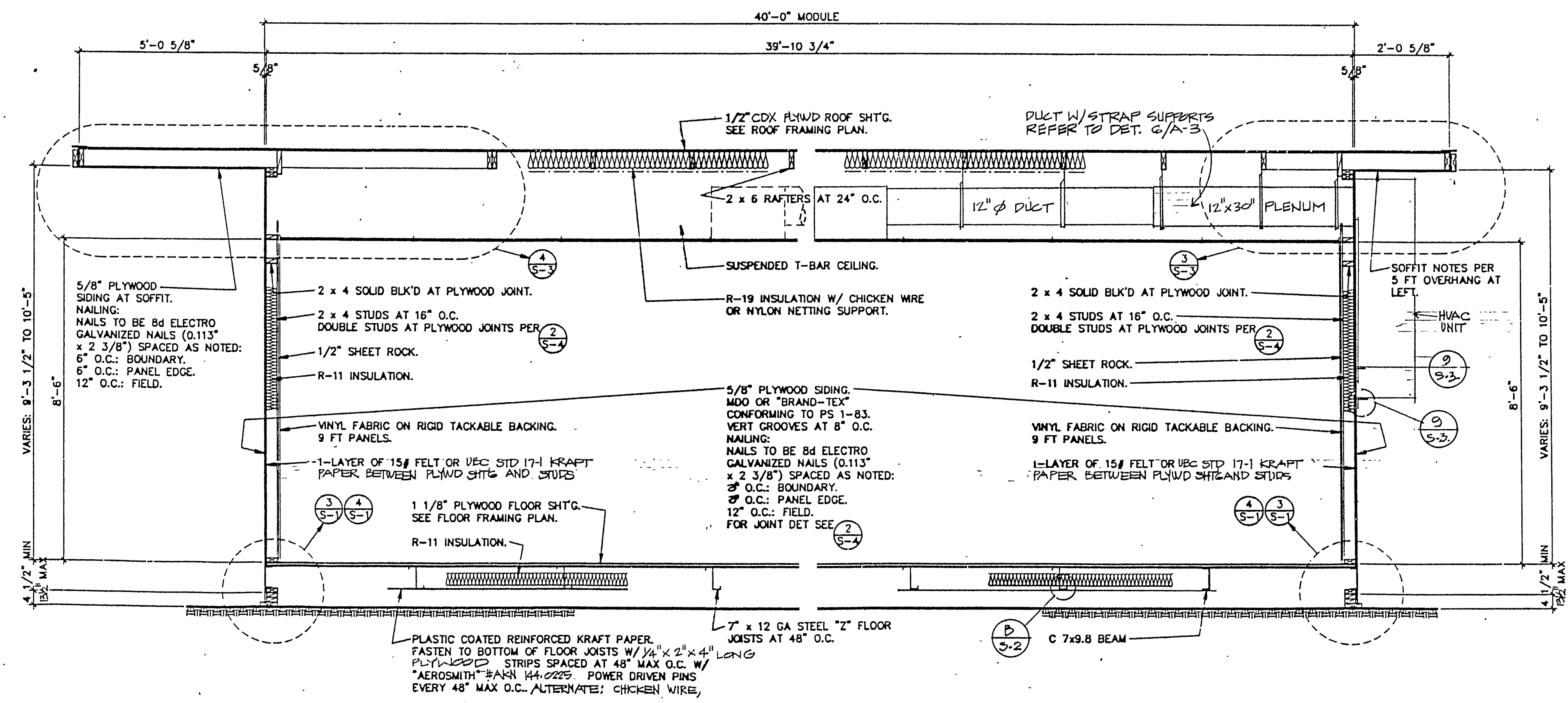
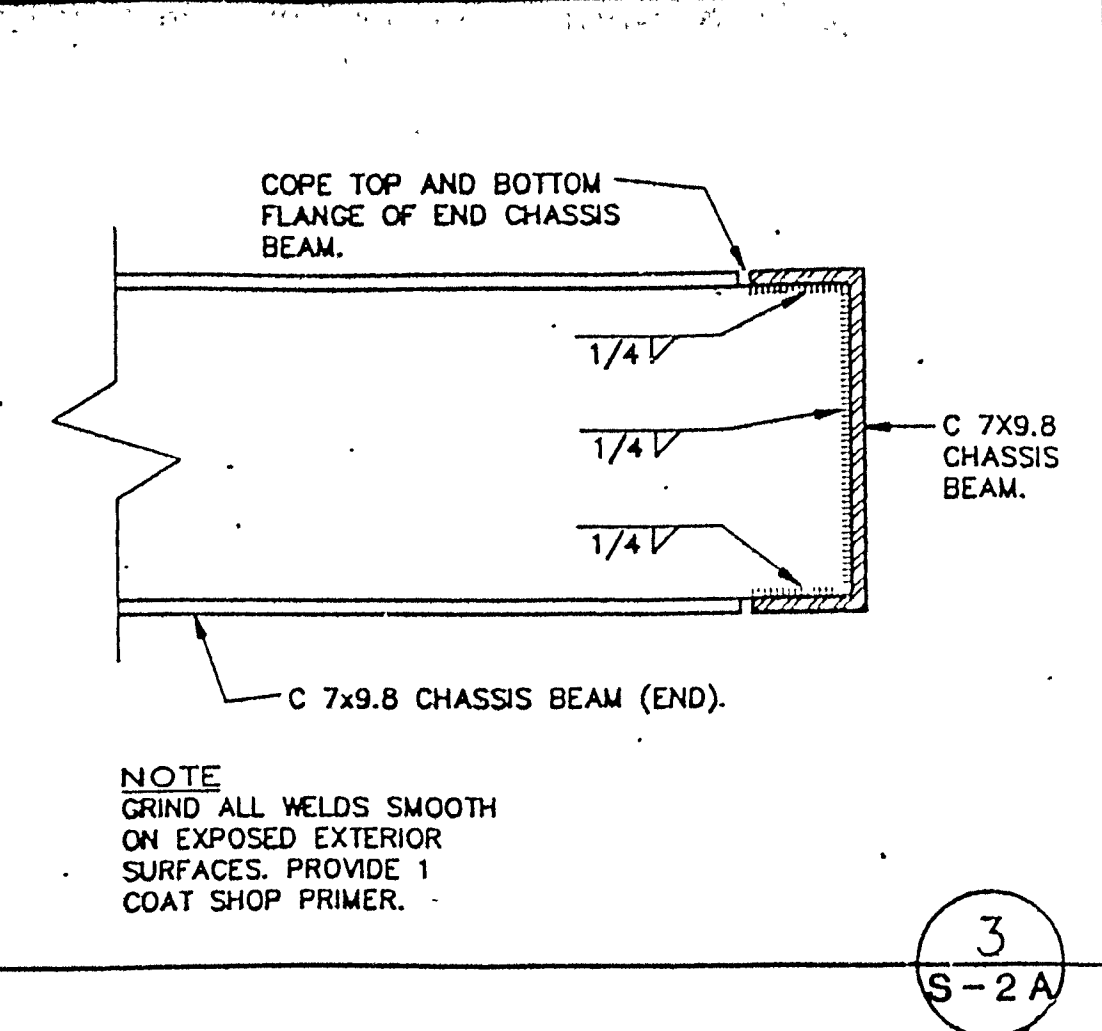
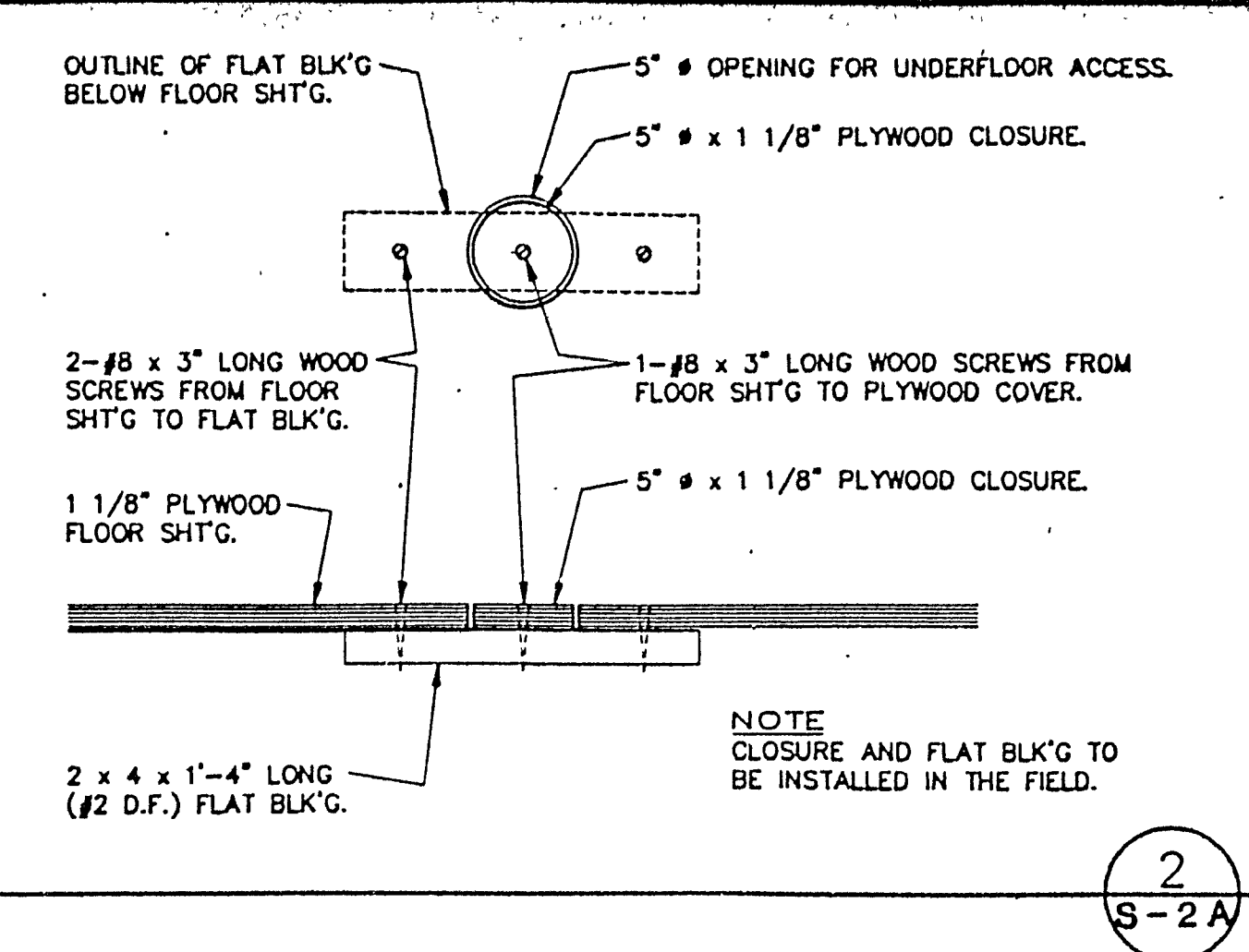
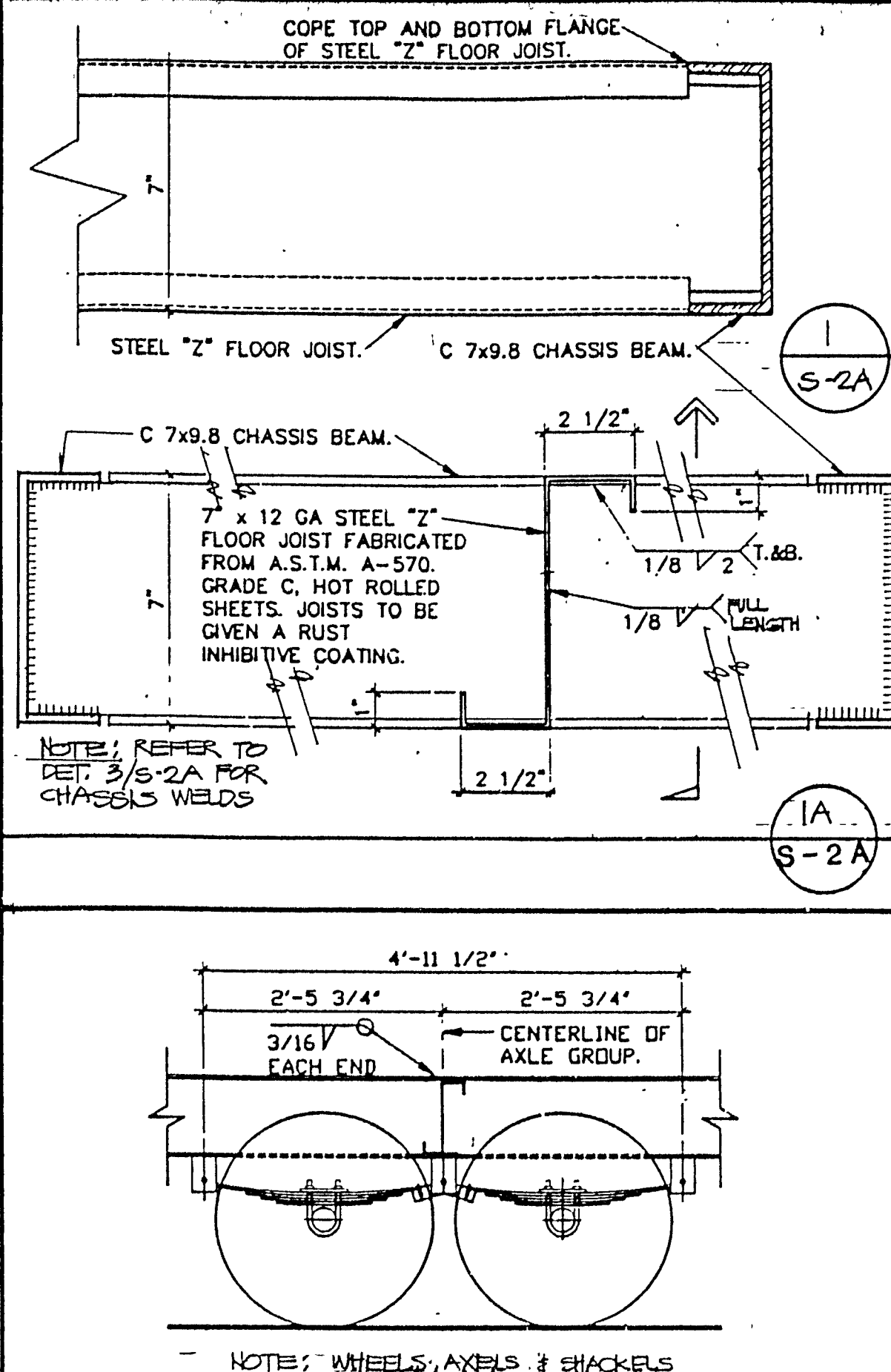


FLOOR FRAMING PLAN

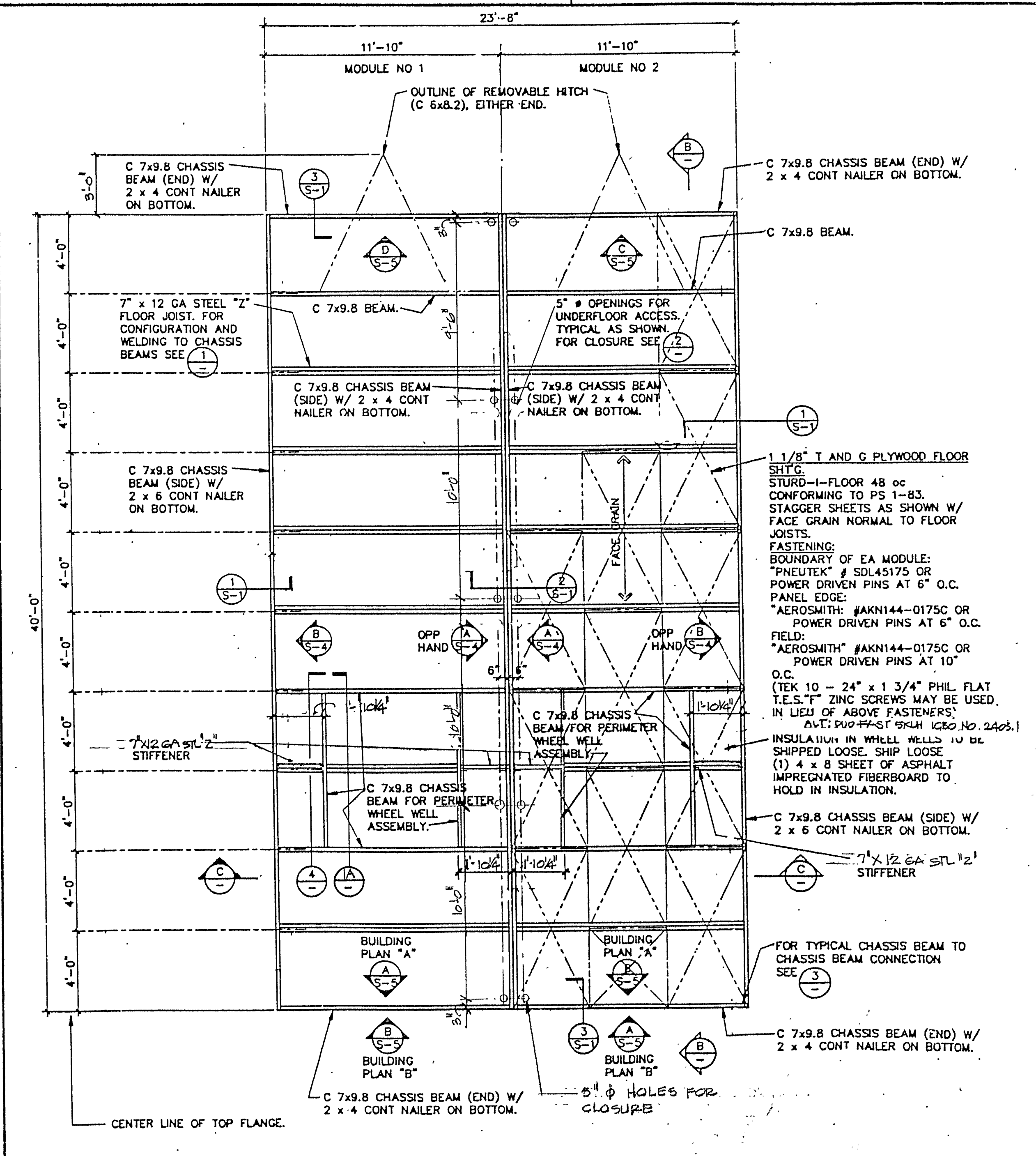




TYPICAL TRANSVERSE SECTION



TYPICAL LONGITUDINAL SECTION



FLOOR FRAMING PLAN (WHEEL BASE ALTERNATE)

**SCOTSMAN**  
ENGINEERING & CONSTRUCTION DIVISION  
2550 EAST 68TH STREET, LONG BEACH, CA. 90805 213-531-2230 OR 714-761-4553  
2419 FIRST AVENUE, GREELEY, CO. 80631 303-356-5950

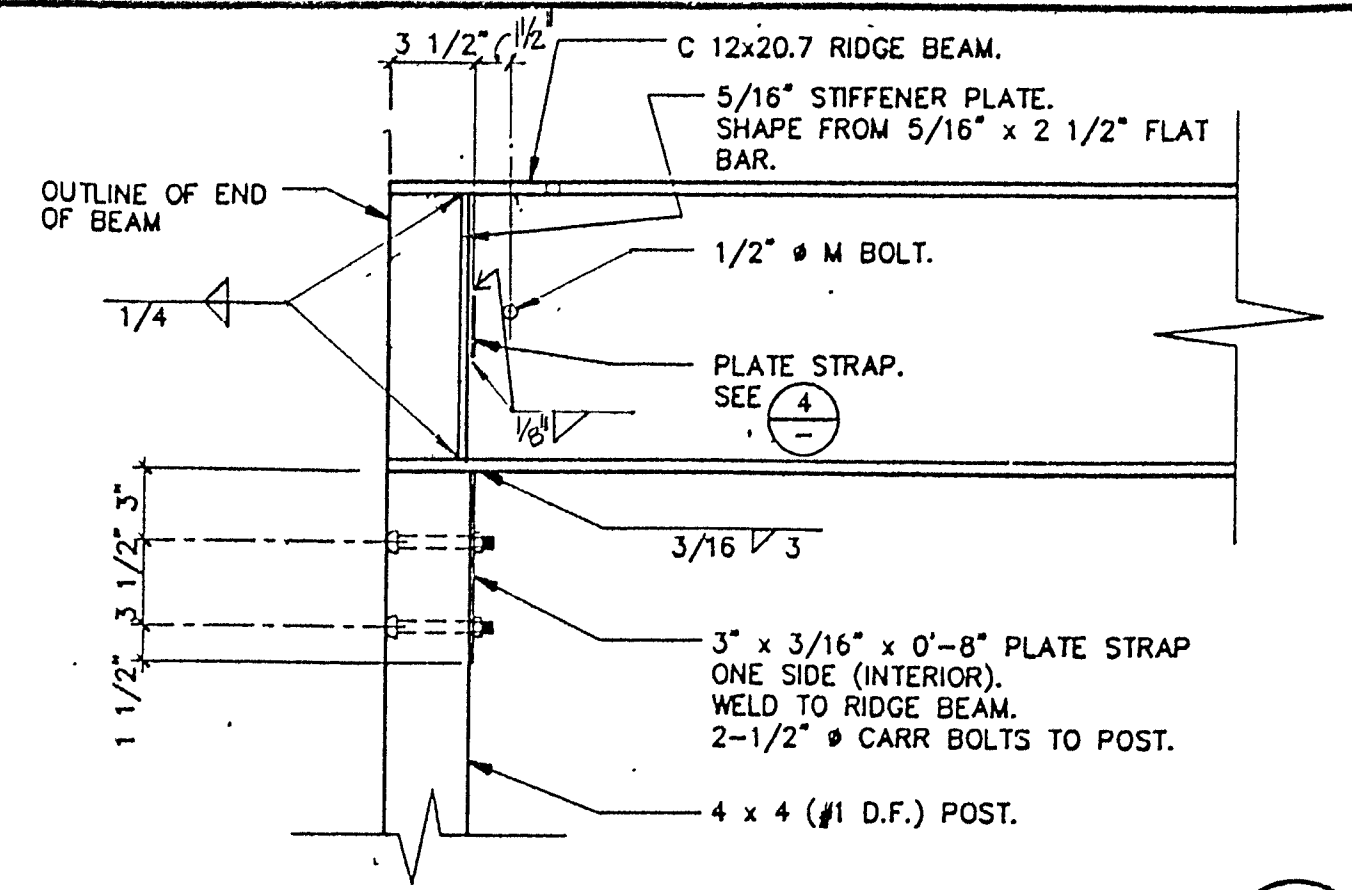
24'x40' STANDARD O.L.A. MODULAR  
RELOCATABLE CLASSROOM BUILDINGS  
FLOOR FRAMING PLAN AND DETAILS  
BUILDING SECTIONS AND GENERAL CONSTRUCTION NOTES

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CHECKED BY  
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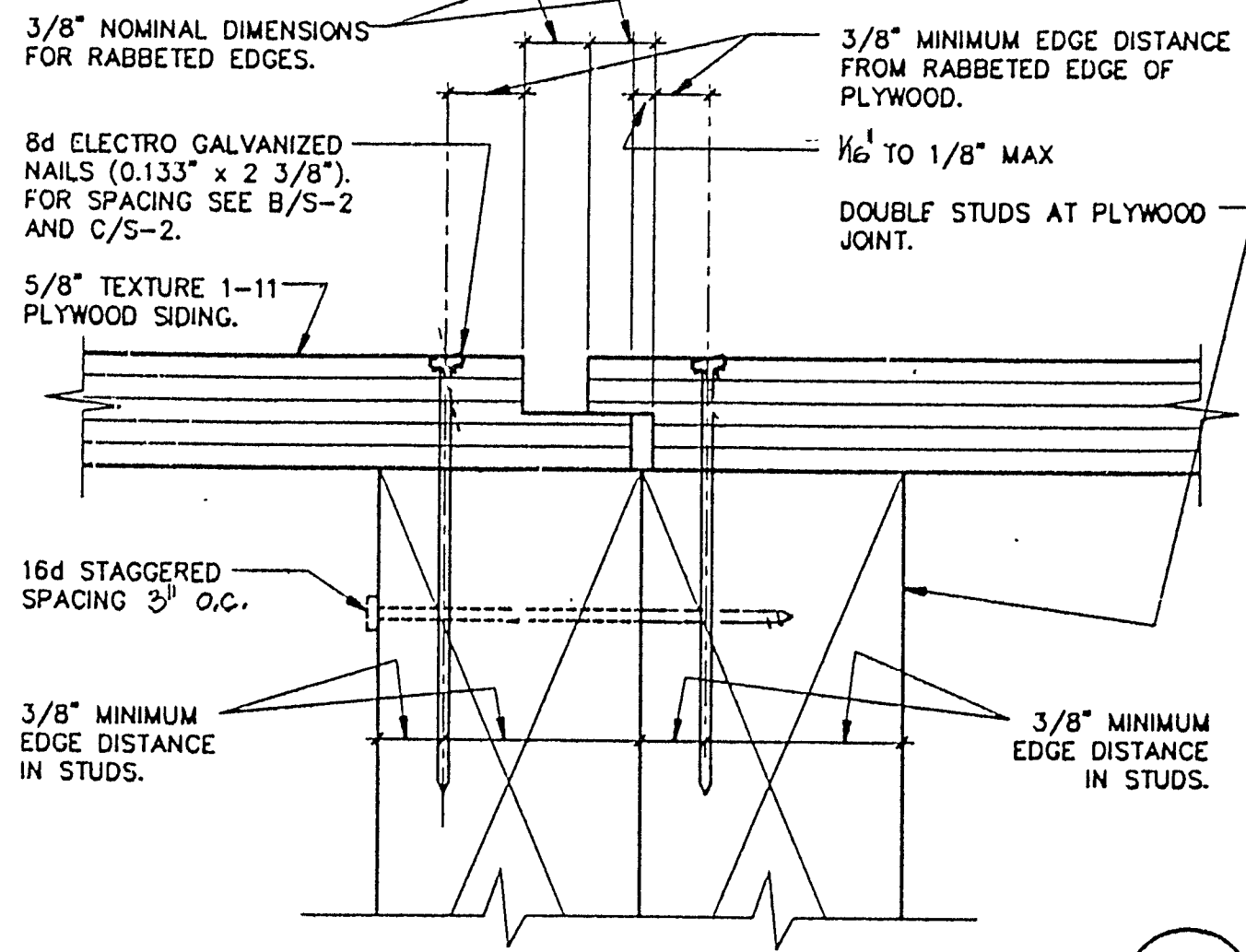
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PROJECT NO.  
STD OLA  
SHEET NO.  
S-2A

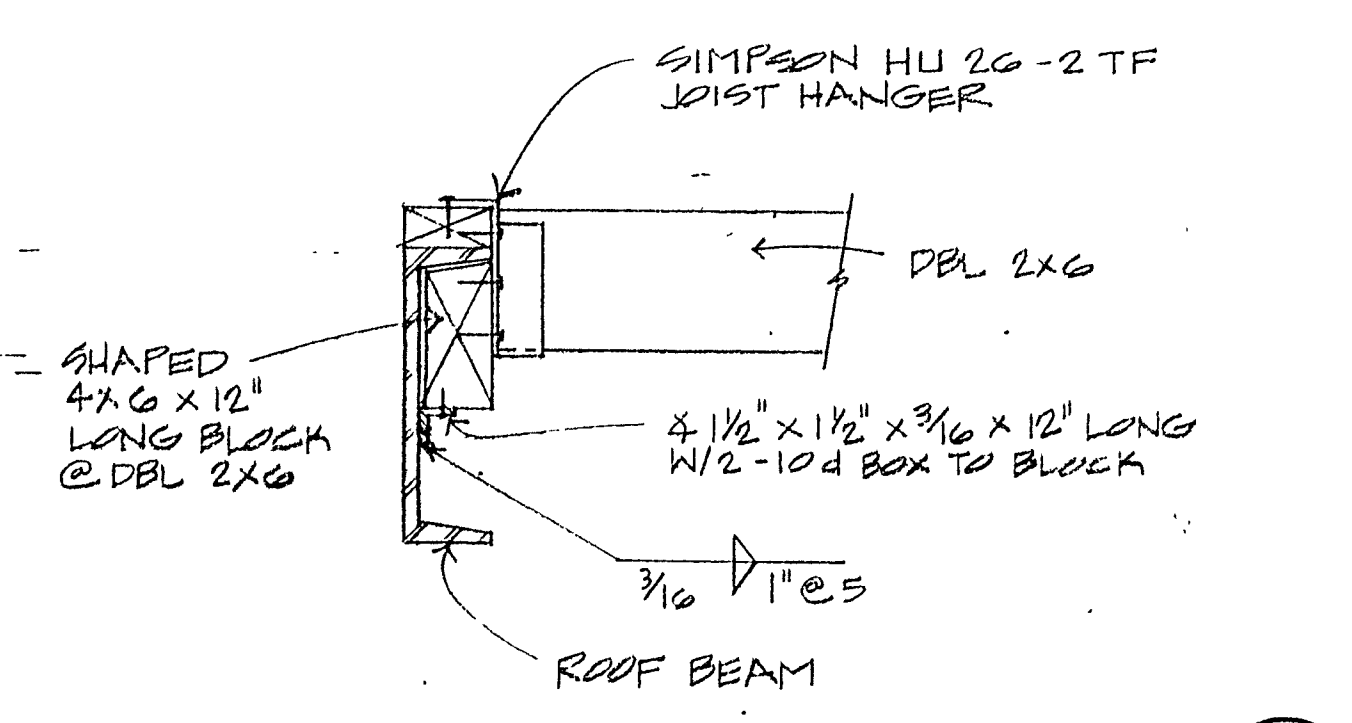




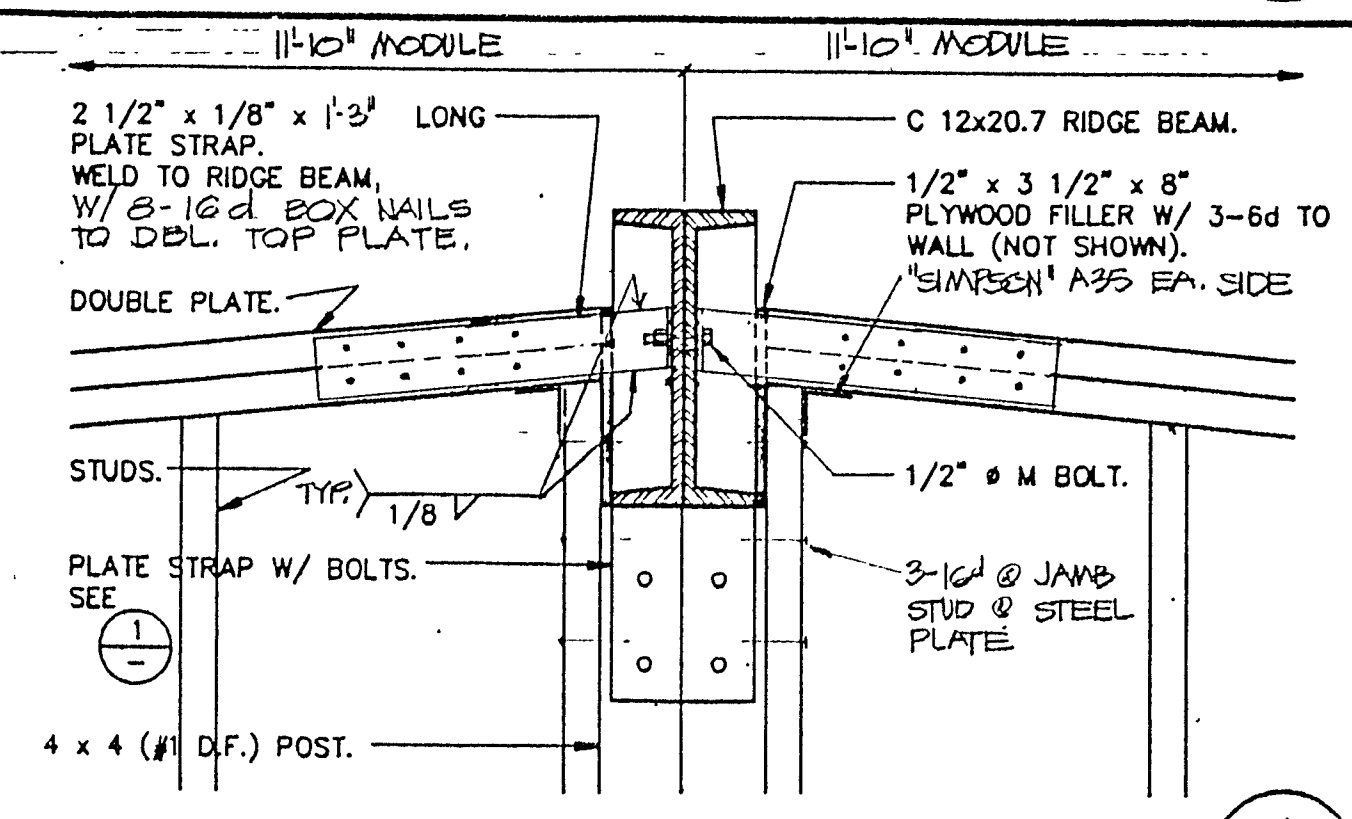
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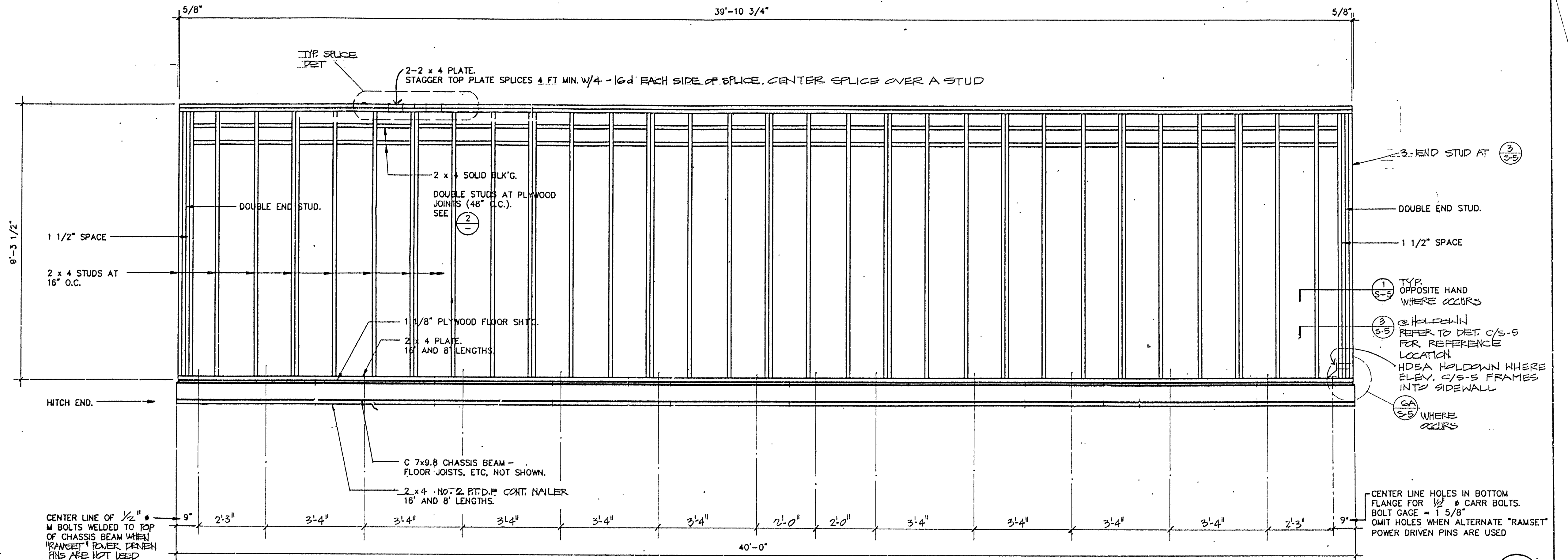
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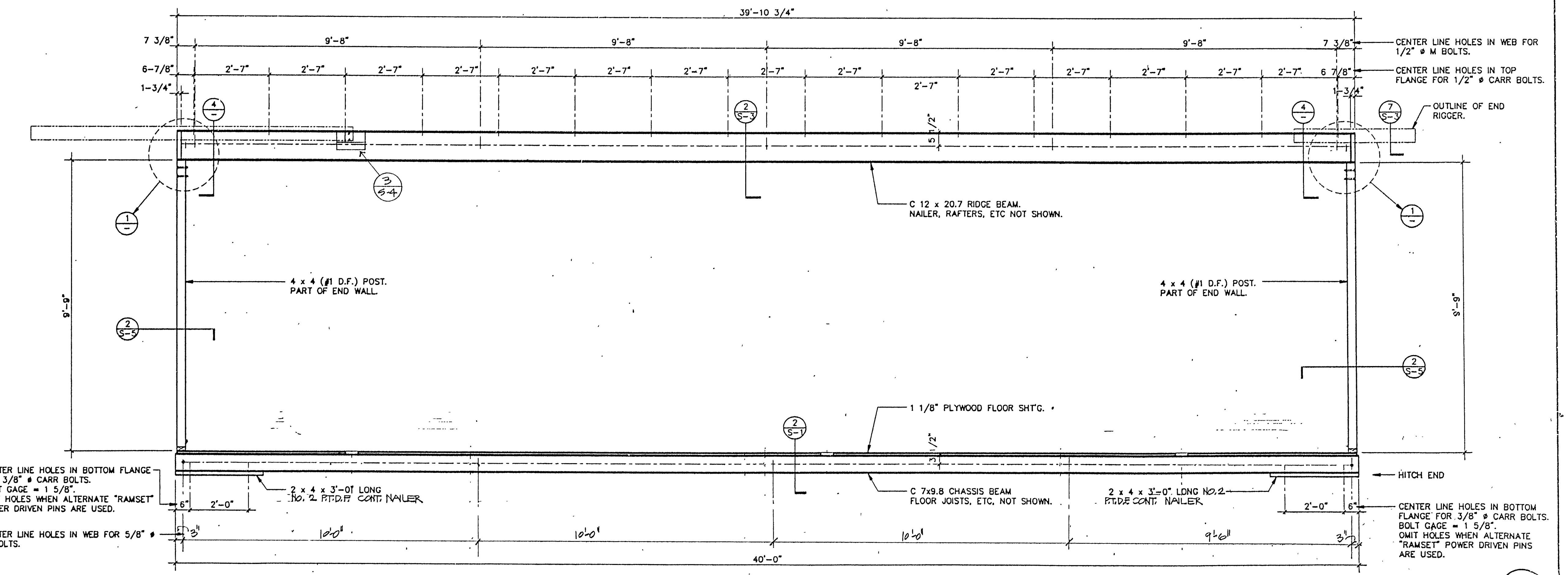
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S-4



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S-4

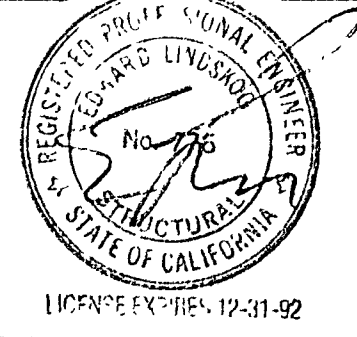


B  
S-4



A  
S-4

DATE OF THIS DRAWING: 12/11/87  
190 JAN 13 1988  
J. A. & M. C. & L.  
STRUCTURAL ENGINEERS  
10000 BAYVIEW BLVD. SUITE 100  
BAYVIEW, CA 94026



**SCOTSMAN**  
ENGINEERING & CONSTRUCTION DIVISION  
2550 EAST 68TH STREET, LONG BEACH, CA. 90805 213-531-2230 OR 714-761-4553  
2419 FIRST AVENUE, GREELEY, CO. 80631 303-356-5950

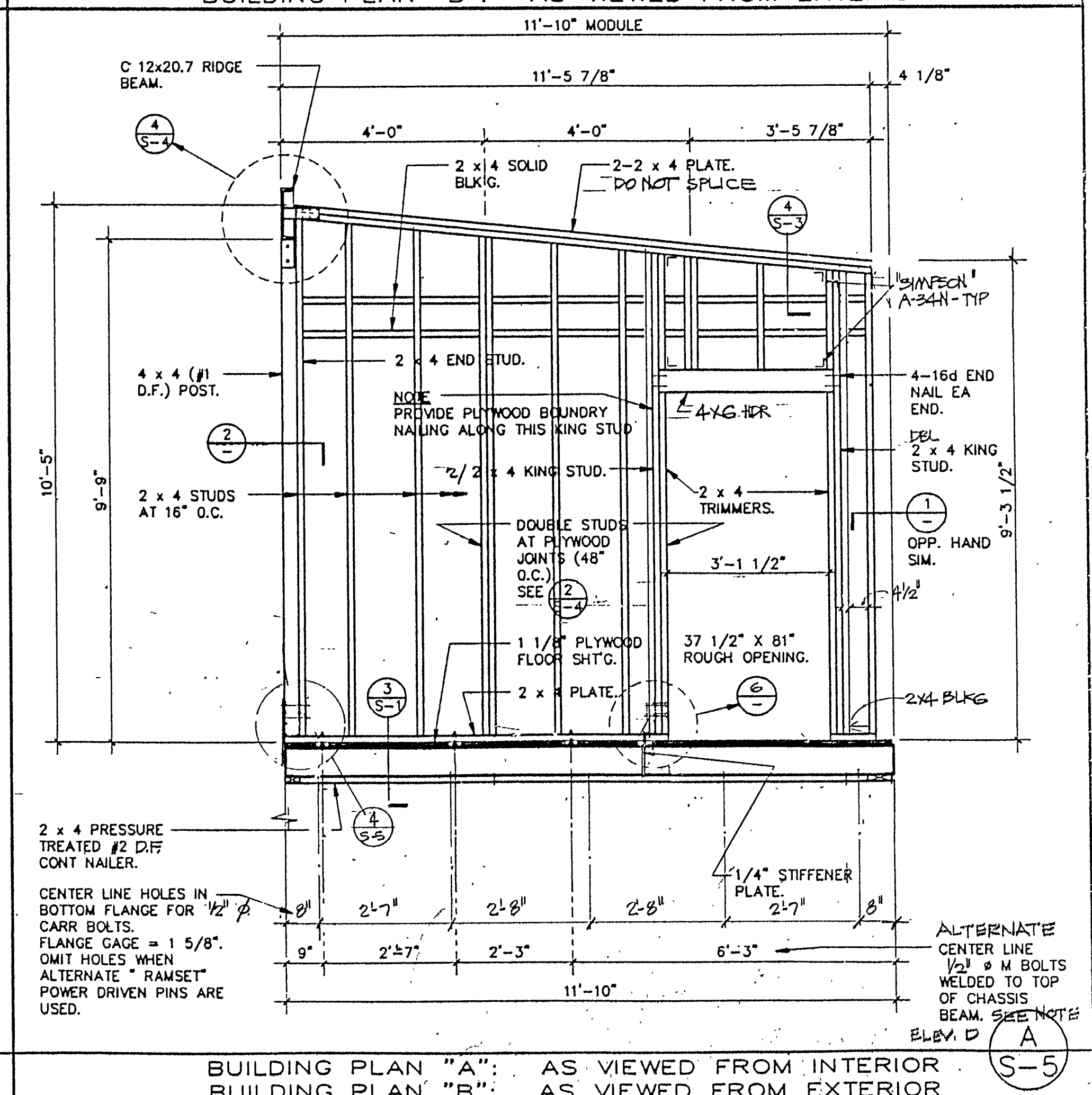
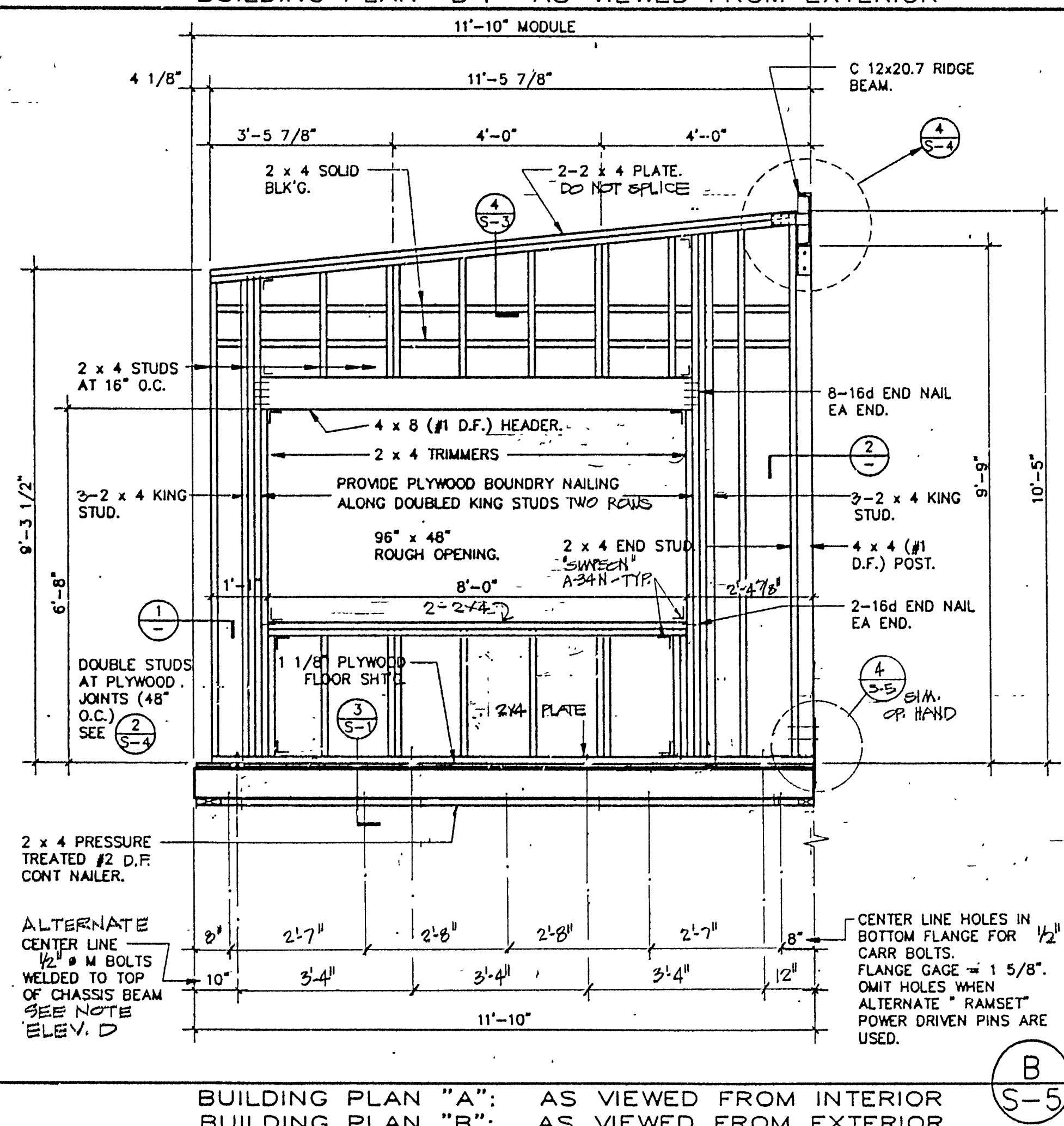
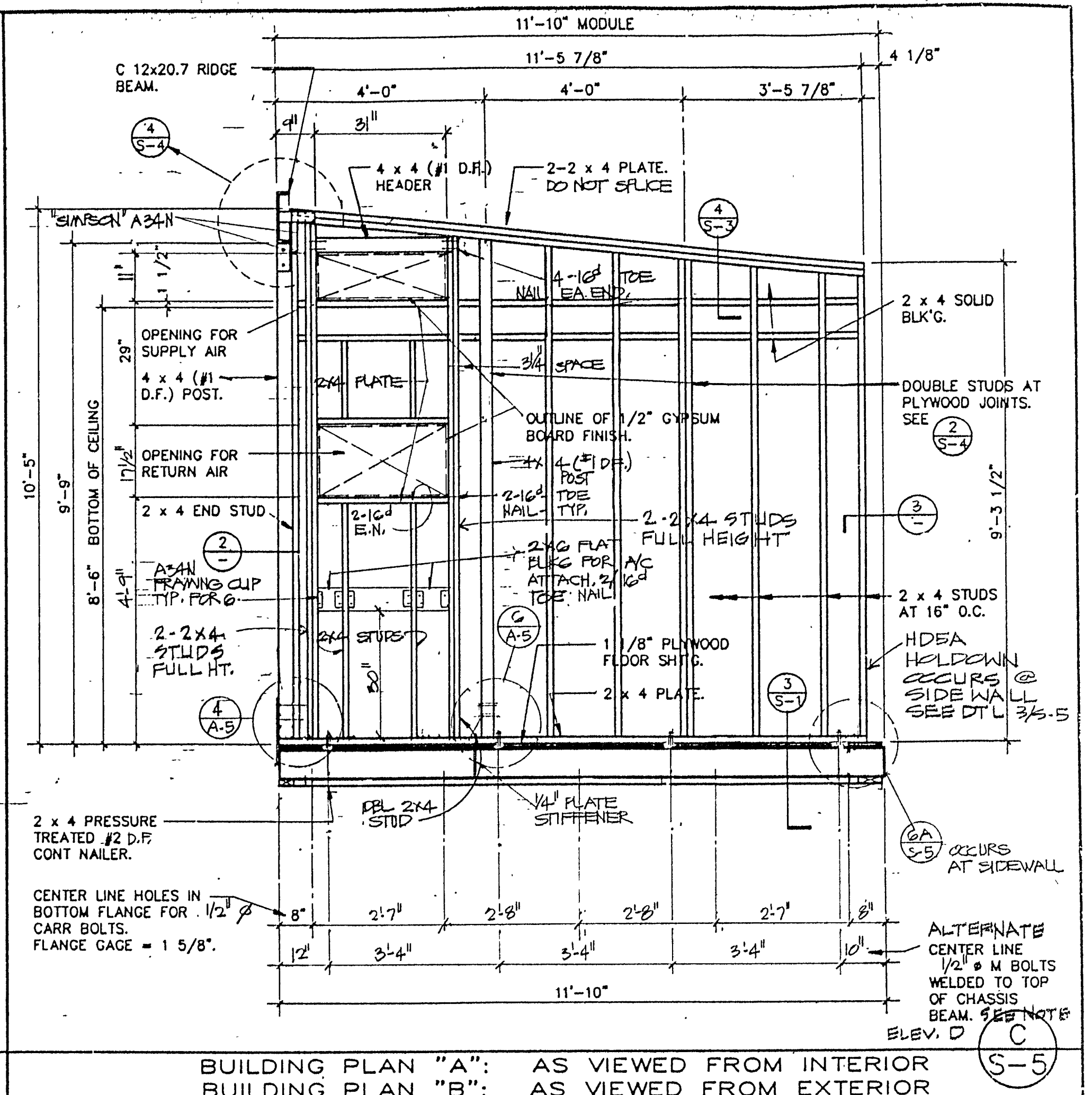
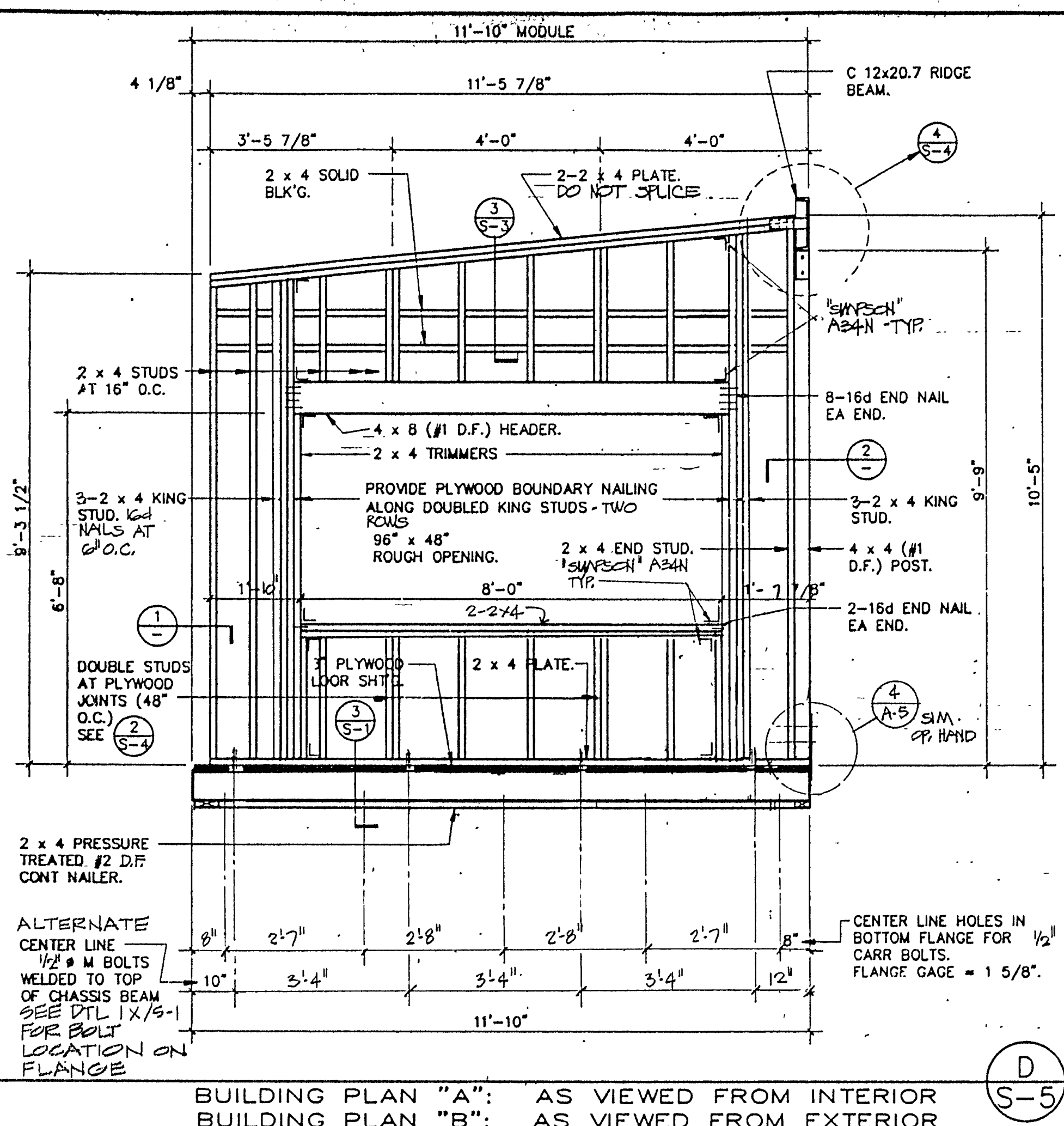
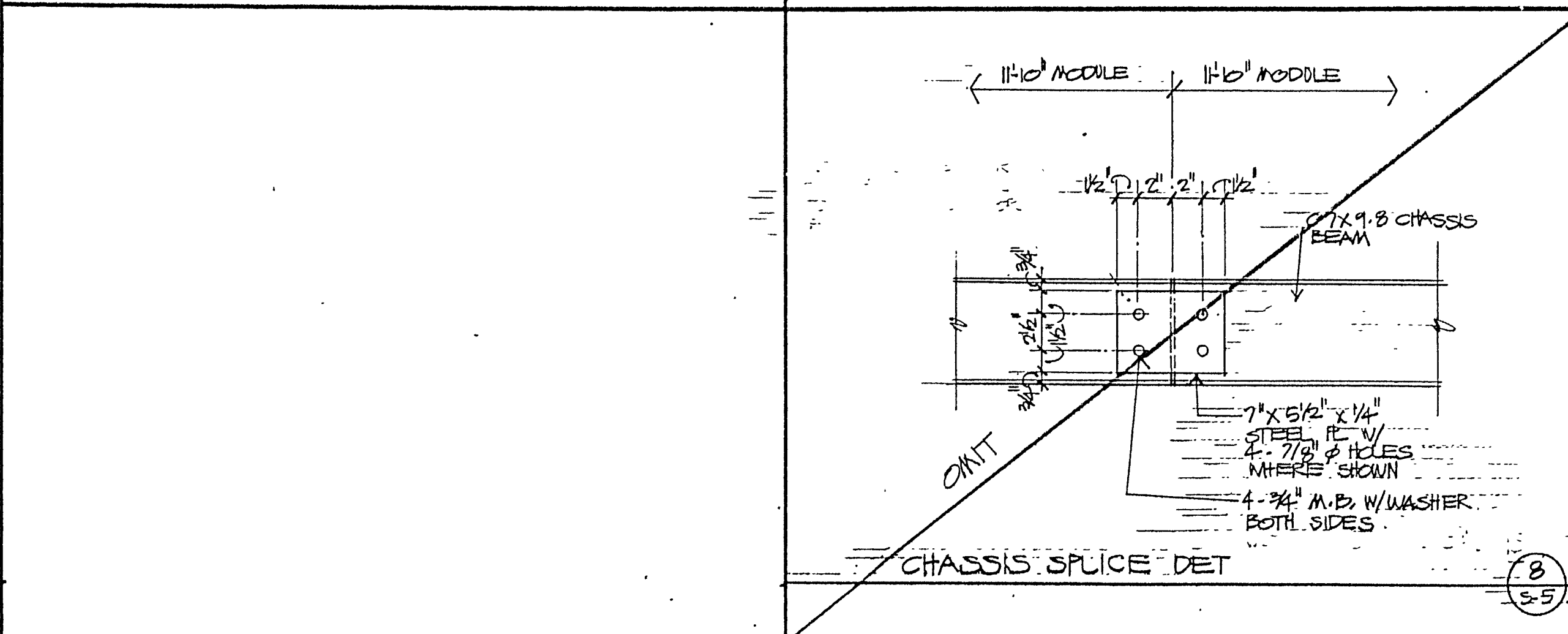
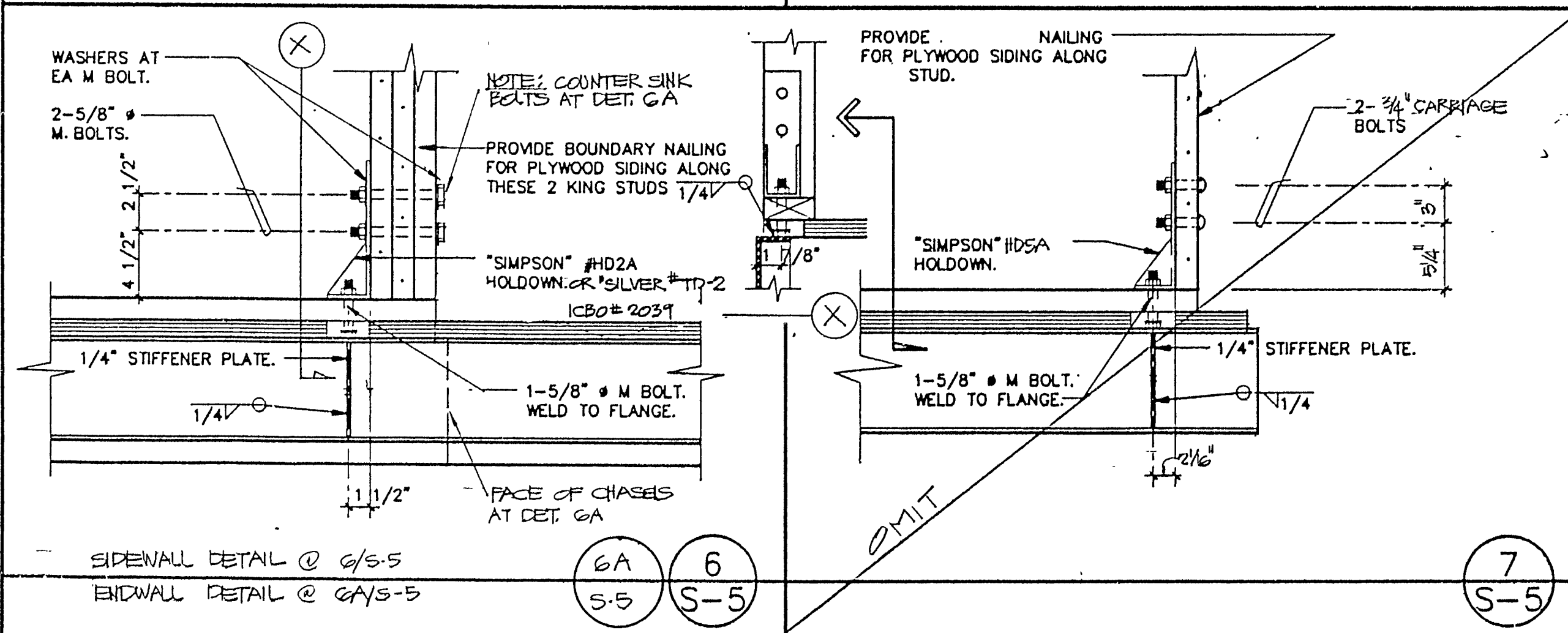
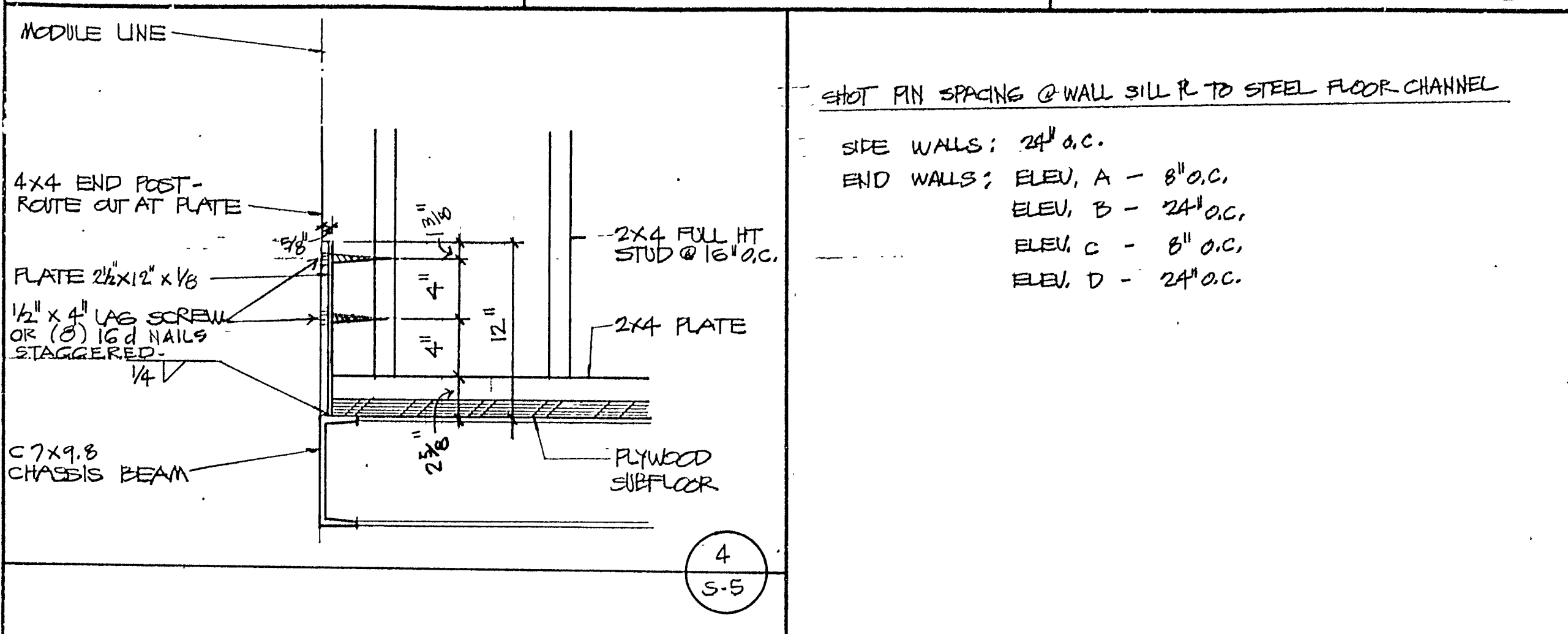
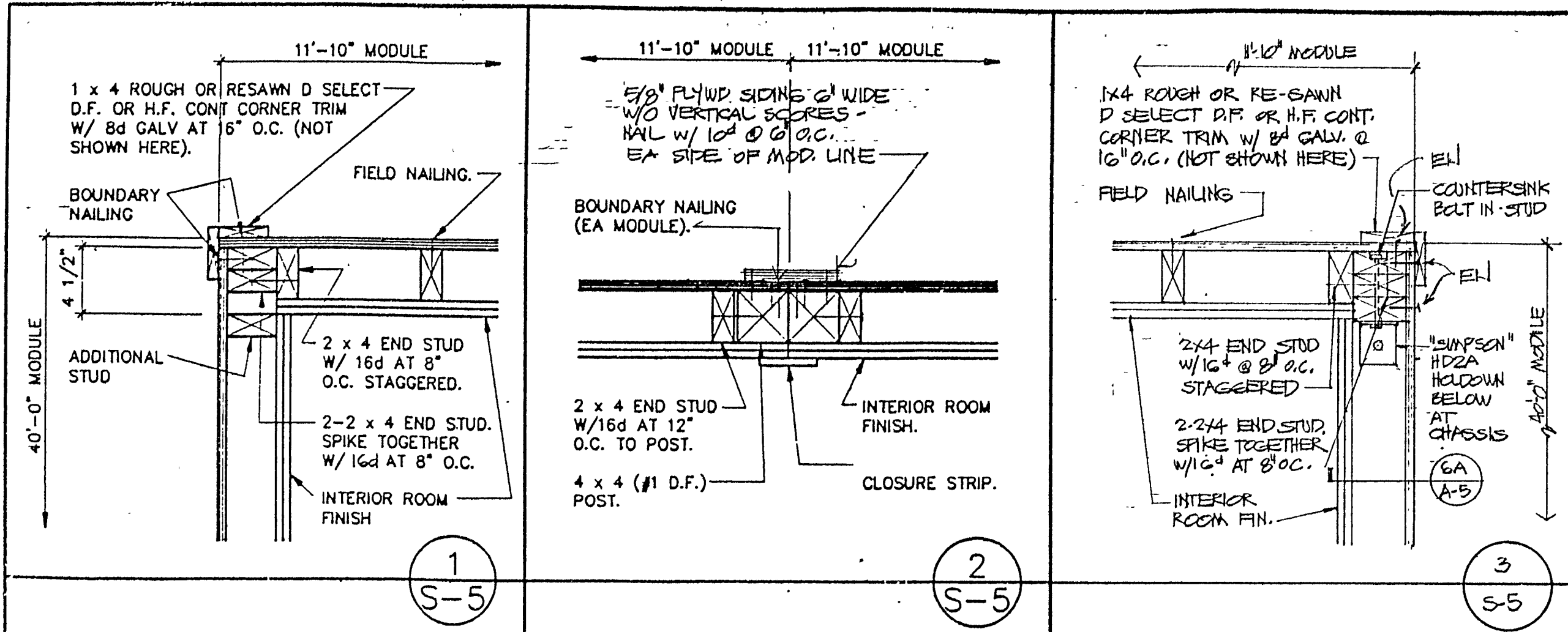
24'x40' STANDARD O.L.A. MODULAR  
RELOCATABLE CLASSROOM BUILDINGS  
FRAMING ELEVATIONS  
DETAILS

DATE 12/11/87  
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CHECKED BY D.W.  
SERIAL NO.

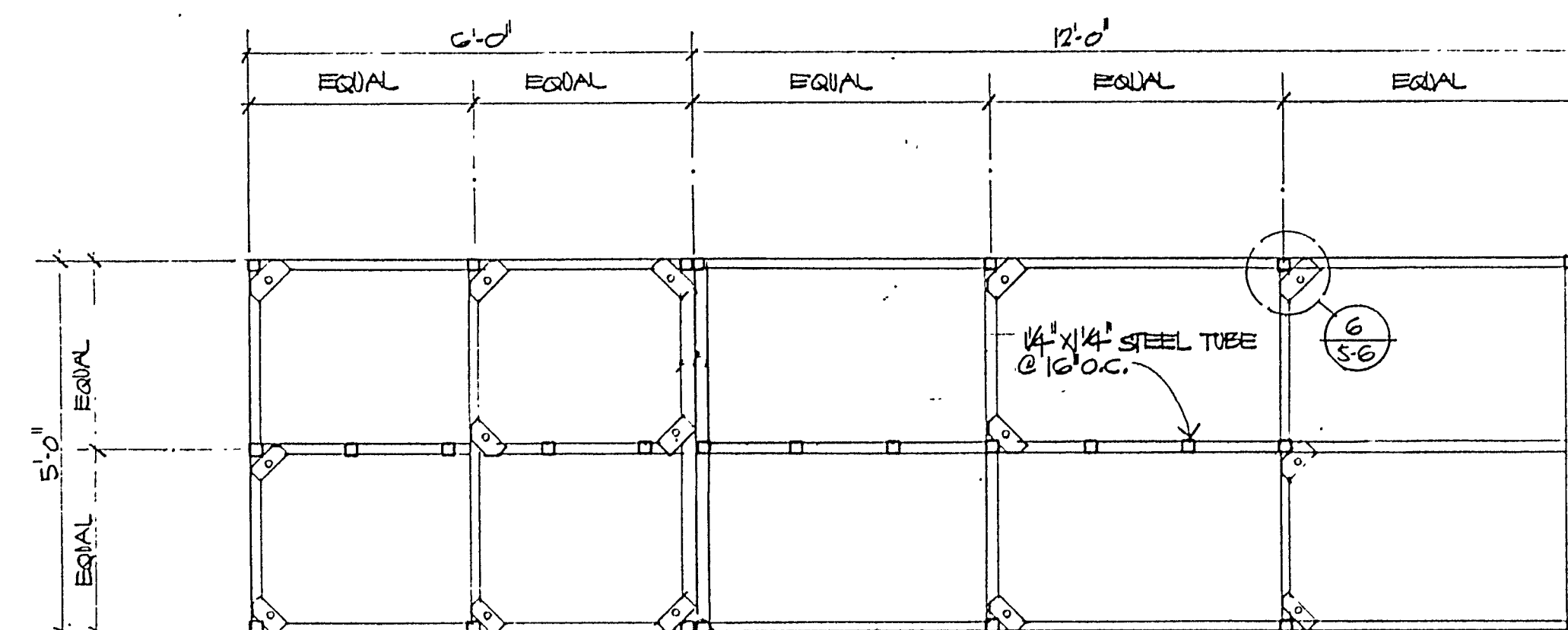
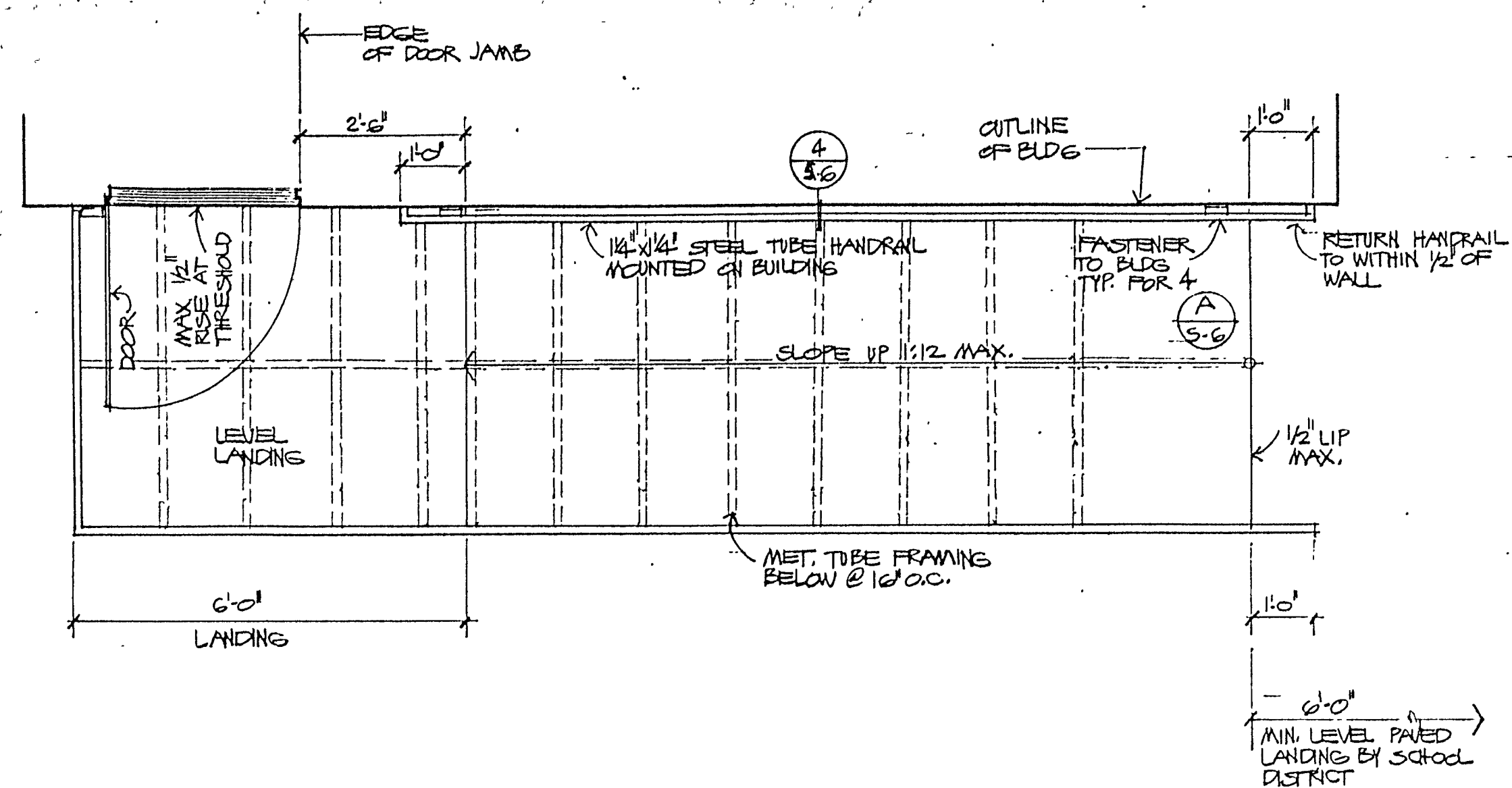
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PROJECT NO. 88-224  
STD OLA  
SHEET NO. S-4

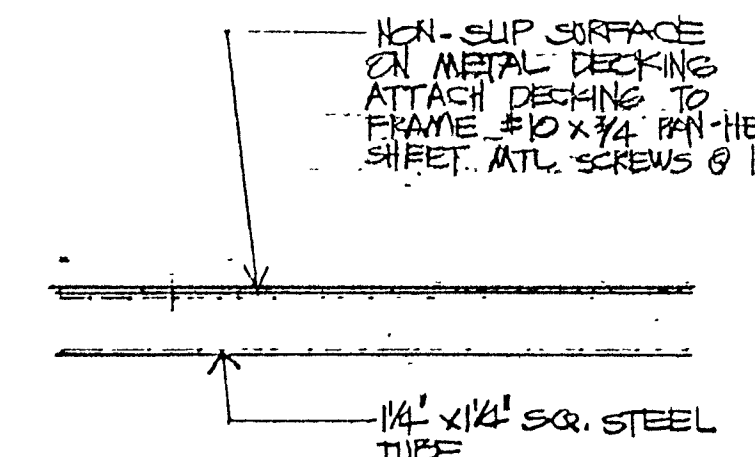
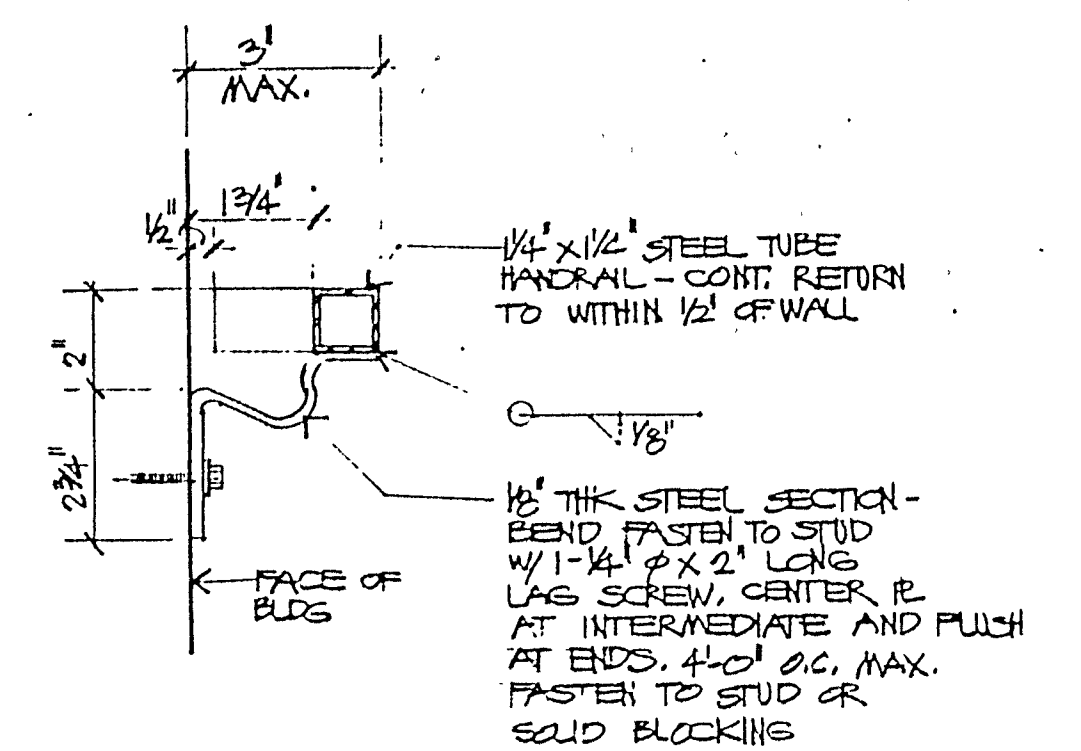
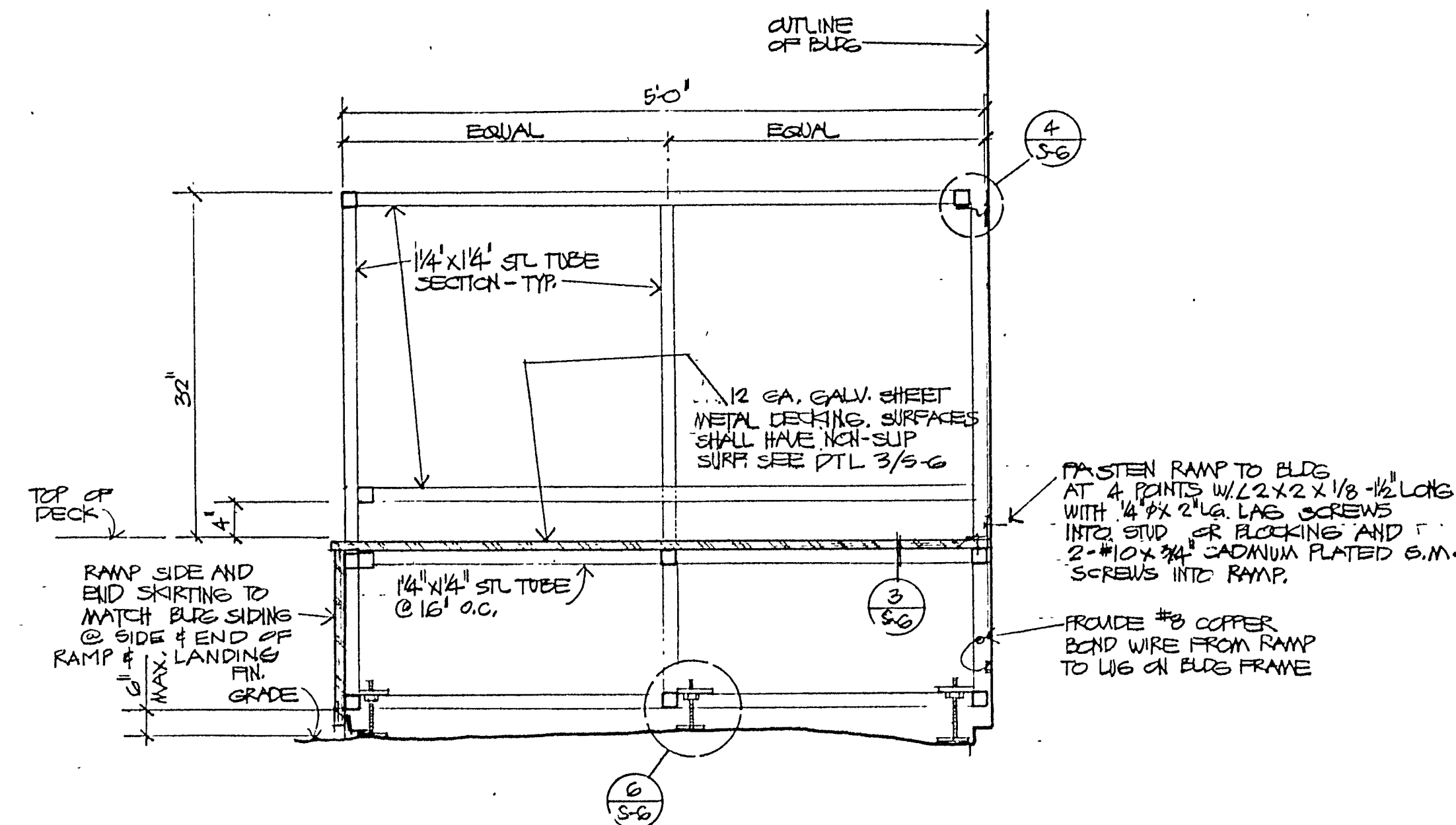
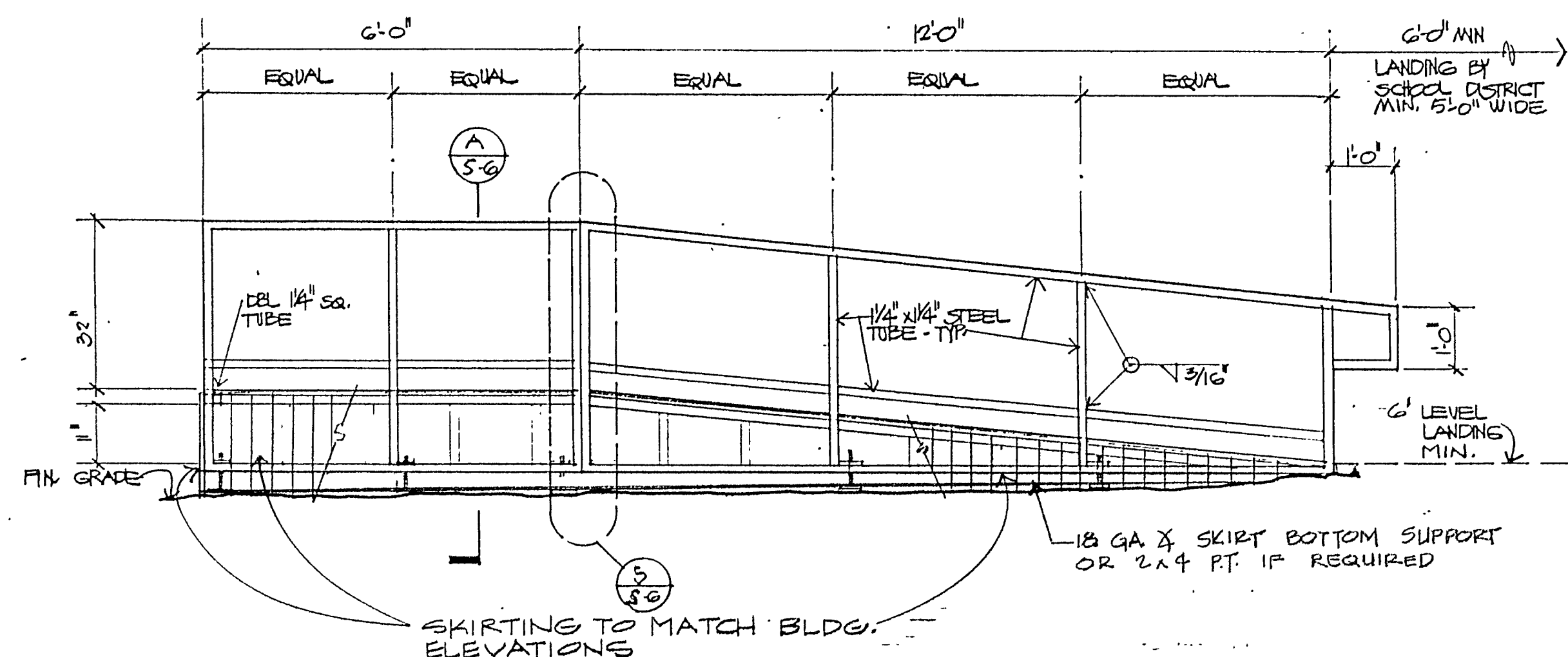






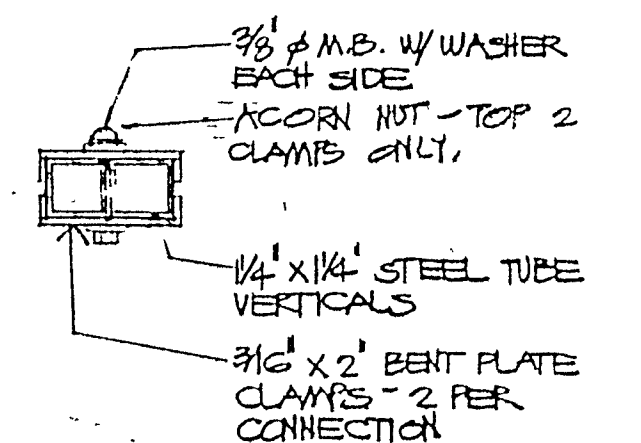
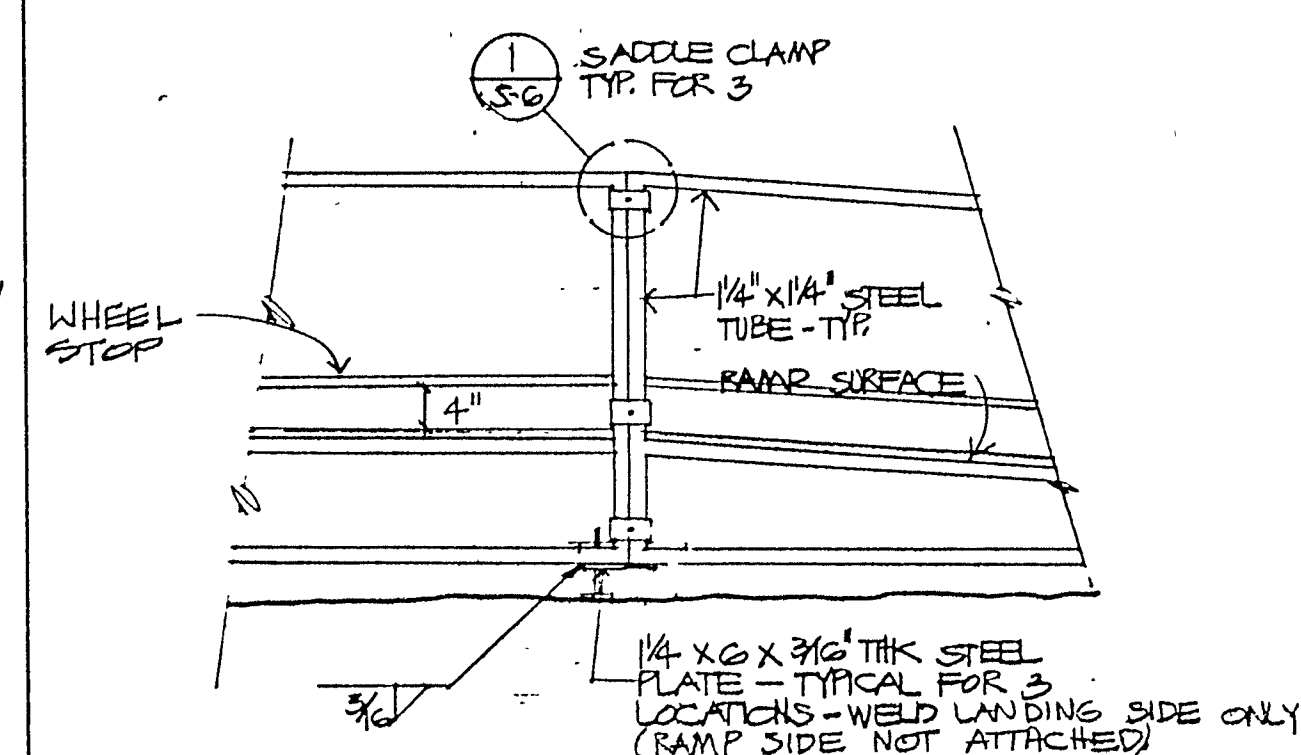
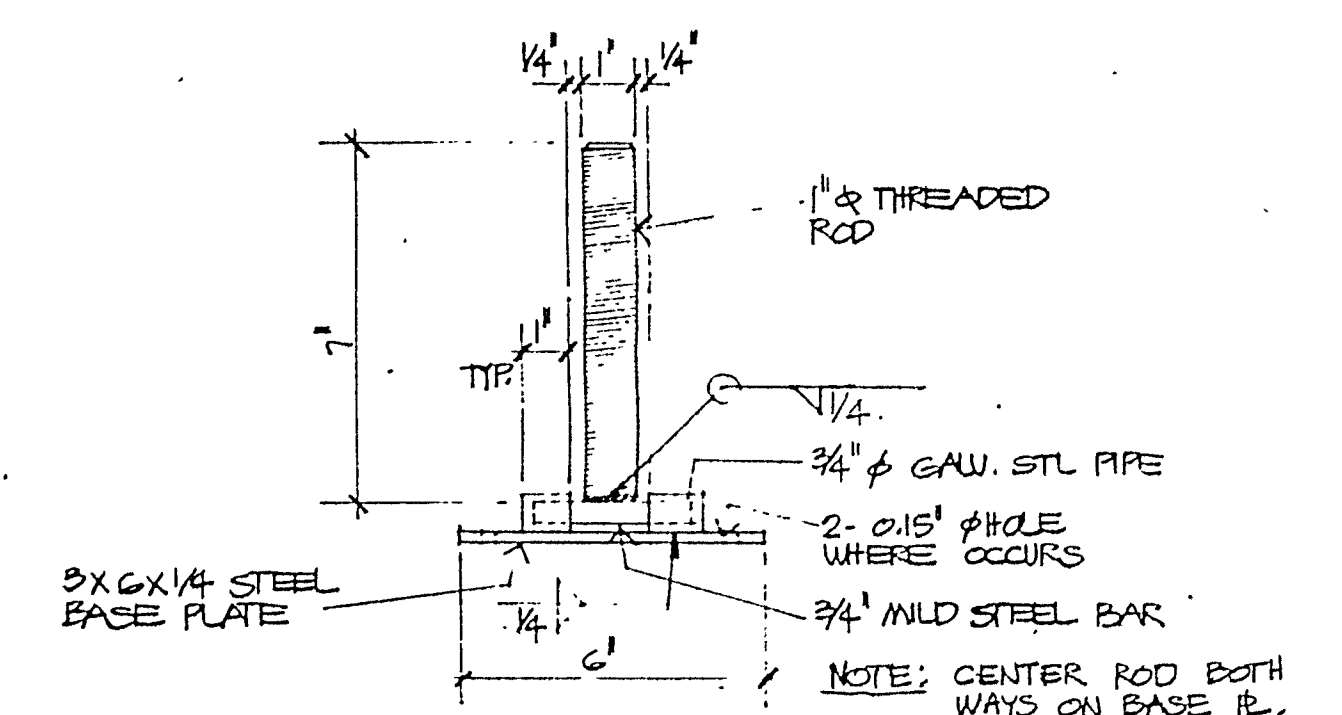
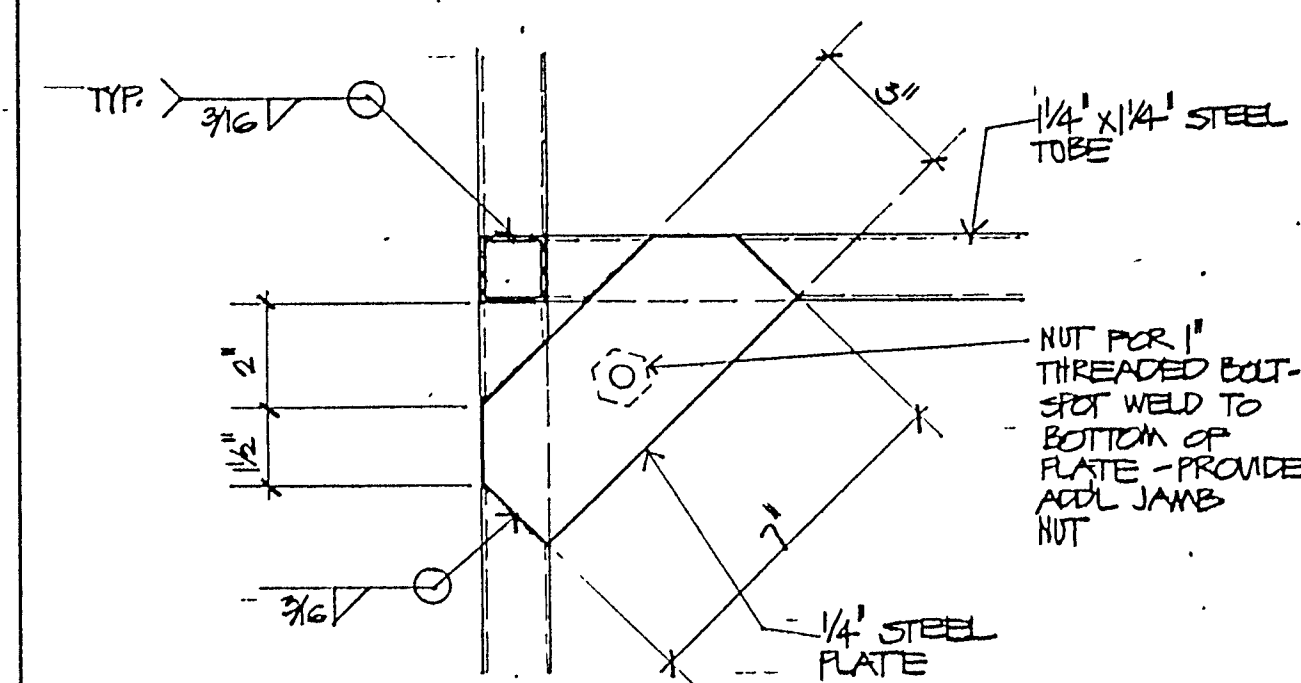
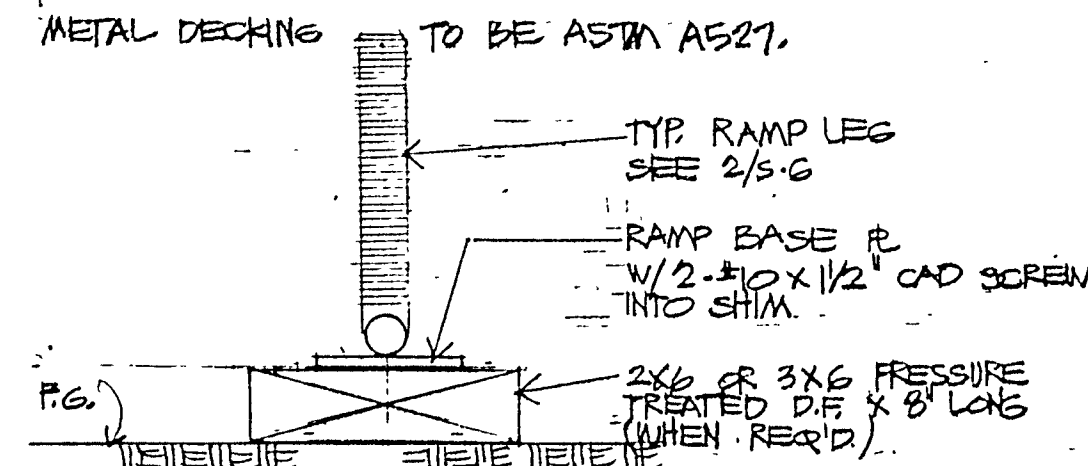


NOTE: SHIM AS REQUIRED AT EACH VERTICAL FRAMING MEMBER OF RAMP. FASTEN TO RAMP FOOT WITH 2-#10x1/2" CAD PLATED SCREWS INTO SHIM.



- ## NOTES

1. DECK SHALL HAVE A NON-SUP COATING CONSISTING OF TWO COATS OF "STA-CRETE" 1000 EPOXY AND #20 SILICA SAND INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. EACH COAT SHALL BE A MINIMUM OF 50 MIL THICK.
2. ALL FRAMING MEMBERS SHALL BE OF SQUARE STEEL TUBE TO 1 1/4 X 1/4 X 0.01 CONFORMING TO ASTM GRADE A513 TYPE I, PAINT ENAMEL.
3. ALL BASE PLATES SHALL BEAR ON COMPACTED GRADE WITH A MINIMUM BEARING CAPACITY OF 1000 PSF.
4. ALL WELDS SHALL BE MADE IN SHOP.
5. THE MAXIMUM DIFFERENCE IN ELEVATION OF THE GROUND AT SUPPORTS SHALL NOT BE GREATER THAN 6" SHOWN WHERE REQUIRED TO 3".
6. ALL BOLTS TO BE ASTM A-307
7. THREADED ROD TO BE ASTM A-108
8. ALL PLATES, BAR, ANGLES AND MISCELLANEOUS PIECES TO BE ASTM A36.
9. METAL DECKING TO BE ASTM A527.





# MODTECH, INC. RELOCATABLE CLASSROOM BUILDINGS

## OFFICE OF LOCAL ASSISTANCE

### INDEX

BINDING ORDER	SHEET NUMBER	DESCRIPTION
1	0.0	COVER SHEET: INDEX, BUILDING DATA, SYMBOLS
2	1.0	FLOOR, FOUNDATION, ROOF PLANS, ELEVATIONS, NOTES
3	2.0	TYPICAL DETAILS
4	2.1	TYPICAL FOUNDATION
5	3.0	STRUCTURAL FRAMING
6	4.0	ELECTRICAL
7	5.0	SUSPENDED CEILING
8	6.0	GENERAL NOTES AND SPECIFICATIONS
9	M-1	AIR CONDITIONING
10	R-1	STANDARD RAMP PLAN
11	R-2	STANDARD RAMP PLAN

### SYMBOLS

TYPE	SYMBOL	MEANING
DETAIL	(1)	DETAIL ON SAME SHEET AS SYMBOL
DETAIL	(1/2)	DETAIL NUMBER (1) ON SHEET NO. (2)
DETAIL	DET 5:2	DETAIL NUMBER (5) ON SHEET NO. (2)
NOTE	(1)	NOTE NO (1) ON SAME SHEET AS SYMBOL
NOTE	(4/5)	NOTE NUMBER (4) ON SHEET, NUMBER (5)
NOTE	NOTE 4:3	NOTE NUMBER (4) ON SHEET NUMBER (3)
PANEL	(1)	PANEL TYPE - SEE SH. (3) FOR FRAMING
SECTION	(A/2)	SECTION (A) ON SHEET (2)

A WAIVER OF DURABILITY WILL BE REQUIRED FROM THE SCHOOL DISTRICT FOR A CONDITIONAL STANDARD FOUNDATION APPROVAL FOR THIS WORK.

### BUILDING DATA

OCCUPANCY E-2  
 TYPE OF CONSTRUCTION V-N  
 WIND LOAD 15 lb/sq ft  
 FLOOR LIVE LOAD 50 lb/sq ft  
 ROOF LIVE LOAD 20 lb/sq ft  
 BUILDING AREA (EACH) 960 sq ft  
 U.B.C. 1963 FIRE MARSHAL  
 U.B.C. 1973 STRUCTURAL  
 TITLE 24 C.A.C. PART 2  
 TITLE 21 C.A.C.

SYSTEM: SHEAR WALL  
 MODULES: TWO 12'x40'  
 FOUNDATION: WOOD

SIMILAR TO: PC-29

OFFICE OF STATE FIRE MARSHAL

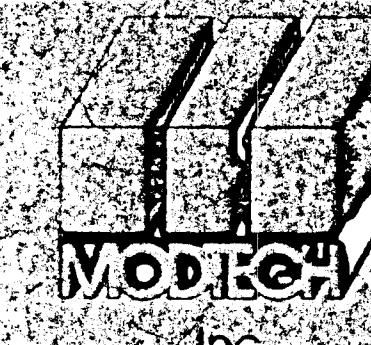
APPROVED

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

Reviewed by: *[Signature]* 1-28-79

P.O. # S 00780-00893, 00919

MODTECH, INC.  
 185 EAST MORGAN STREET  
 PERRIS, CA 92370 (714) 943-4014



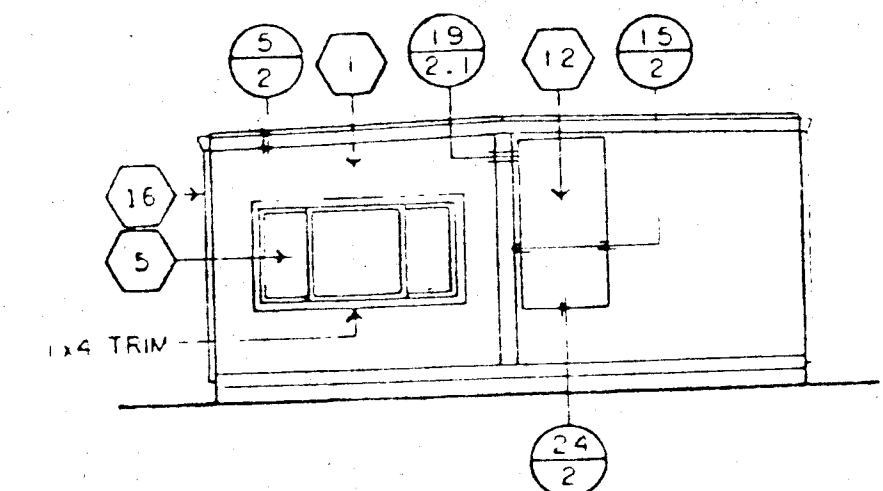
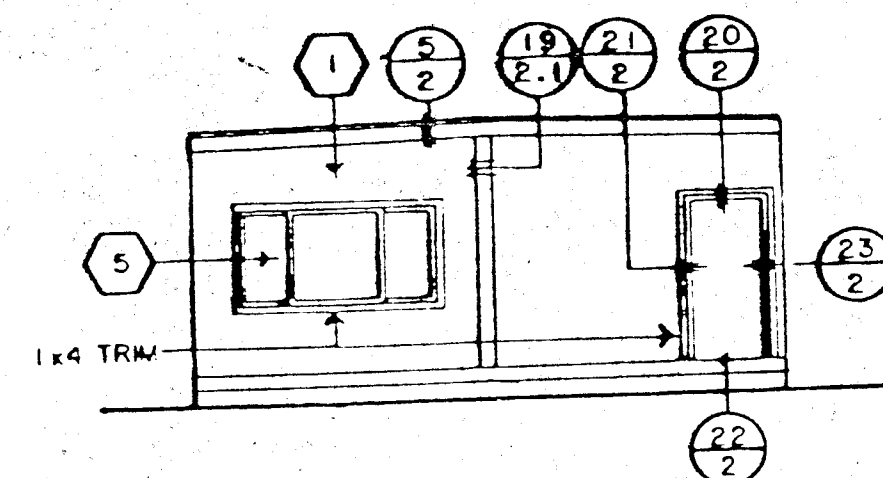
RELOCATABLE CLASSROOM  
 P.O. No. 00780-00893 & 00919  
 Bid No. 790-000438  
 OFFICE OF LOCAL ASSISTANCE  
 MODTECH JOB NO. 1078

BINDING ORDER

10/14/80

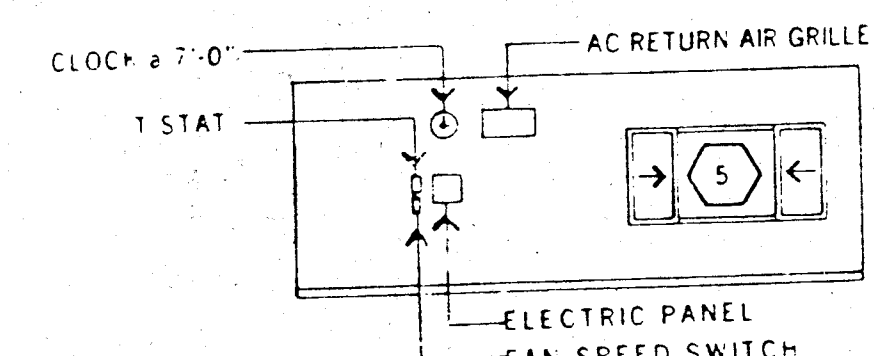
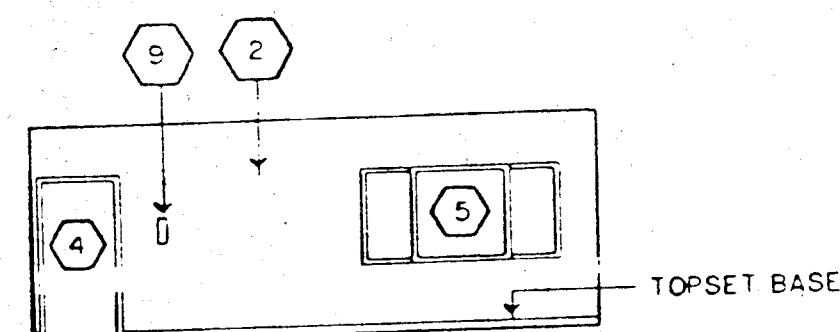
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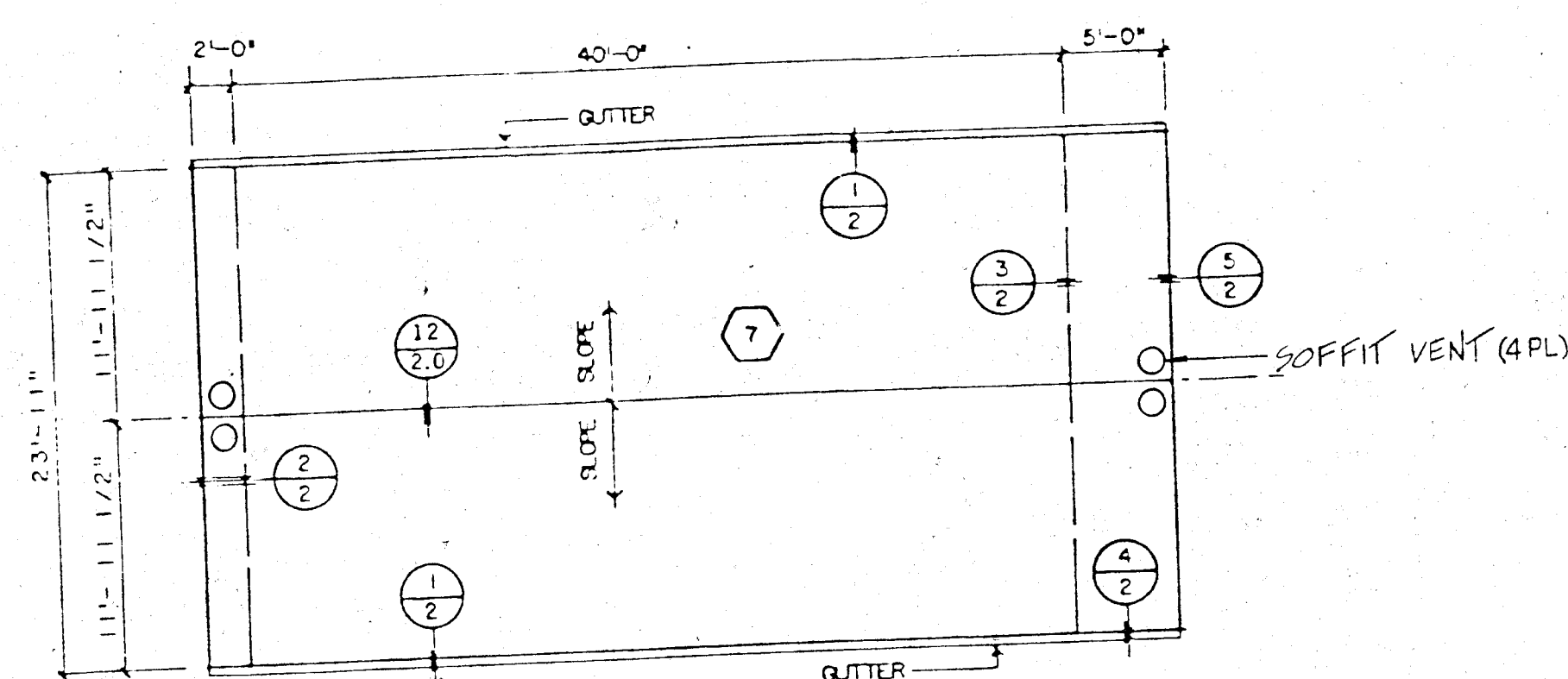
## EXTERIOR ELEVATIONS

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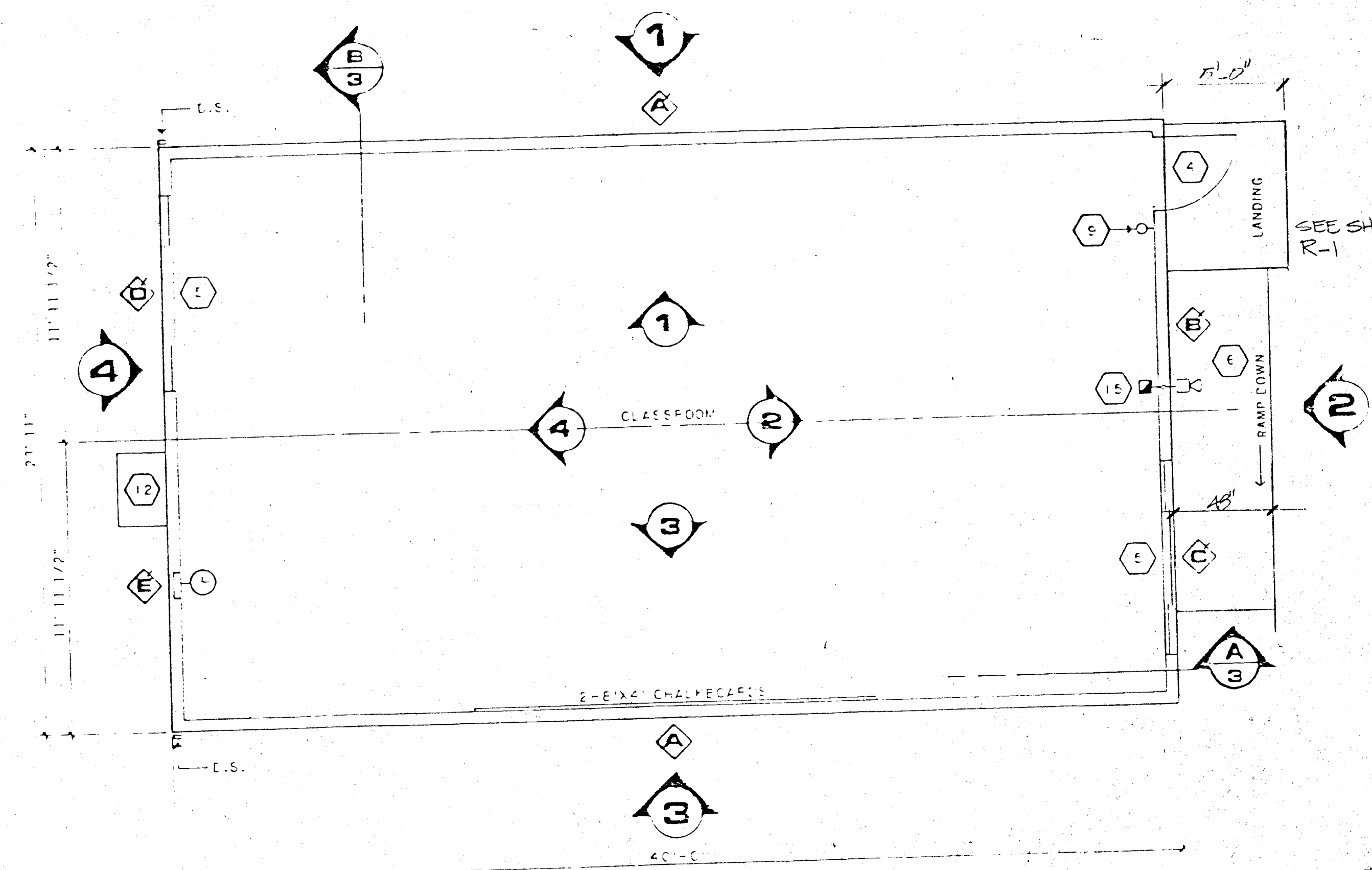


## INTERIOR ELEVATIONS

SCALE 1/8" = 1'-0"



# ROOF PLAN



# FLOOR PLAN

SCALE 1/4" = 1'-0"

## NOTES

- 1 TYPICAL EXTERIOR FINISH: MONAR-PLY BRASS-TX  
5/8"x8" V-GROOVED FLYWOOD, PAINTED.
- 2 TYPICAL INTERIOR FINISH: 1/2" VINYL COVERED  
TACKBOARD, DONITA GYPSUM FLAME SPREAD CLASS  
III (U.L. #R108(S), OVER 1/2" GYPSUM BOARD.
- 3 TYPICAL CEILING MATERIAL: U.S. GYPSUM #562,  
FLAME SPREAD CLASS I, UL (#R323(N)), IN  
CHICAGO METALLIC CORP SERIES 1800 HEAVY DUTY SYSTEM  
SUSPENDED AT 8'-6".
- 4 EXTERIOR DOOR: 30"x6"x1-3/4", 18-GAUGE H.M.  
WITH 16-GAUGE H.M. FRAME. DOOR SHALL BE  
OPENABLE FROM THE INTERIOR WITHOUT USE OF  
KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- 5 WINDOWS: CALIFORNIA WINDOW CORPORATION  
SERIES A-700, 80"x40" ALUMINUM SLIDER, SATIN  
ANODIZED, KOX, WITH NO-LIFT BLOCK ON SLIDER.  
SCREENS ON OPERABLE SASH.  
GLAZING: 1/4" TEMPERED 14% L.T.
- 6 RAMPS, LANDINGS, HANDRAILS: RAMPS SHALL NOT  
SLOPE MORE THAN 12". HANDRAILS AT  
BOTH SIDES OF RAMP 32" HIGH. RAMP LENGTH  
SHALL BE DETERMINED BY SITE CONDITIONS AND  
MAY BE MORE OR LESS THAN THAT INDICATED.  
SEE SHEET 2.2 FOR RAMP DETAILS.
- 7 ROOFING: 30-GA G.1. STANDING SEAM, UNITED  
STATES TESTING CO. LA 72140 STEEL.
- 8 SCREENED VENT: 18-GA EXPANDED STEEL, 1/2"-F,  
PAINTED, 7.5 SQ. FT. TOTAL AREA REQUIRED.  
USE 16-14"x4" VENTS OR EQUIVALENT.
- 9 FIRE EXTINGUISHER: POTTER ROEMER #3005 5-LB  
DRY CHEMICAL WITH 2A-10B U.L. RATING, ON  
WALL MOUNT BRACKET AT 4' 8".
- 10 FINISH FLOORING: CARPET COMPLYING WITH  
GROUP 1, TYPE A, CLASS 24, DENSITY 4600  
DIRECT GLUE DOWN, TOP SET BASE.
- 11 INSULATION FIBERGLASS BATTS, R-19 IN ROOF  
R-11 IN WALLS AND INSULATION MATERIALS  
INCLUDING FACINGS SUCH AS VAPOR BARRIERS OR  
WEATHER PAPERS INSTALL WITHIN FLOOR CEILING  
ASSEMBLIES, WALLS, CRAWL SPACES OR ATTICS  
SHALL HAVE A FLAME SPREAD RATING NOT TO EXCEED  
25 AND A SMOKE DENSITY NOT TO EXCEED 450.  
WHEN TESTED IN ACCORDANCE WITH U.L.C.  
STANDARD NO. 42-1.
- 12 AIR CONDITIONER. SEE SHEET M-1.
- 13 METAL TAG ON ALL MODULES. MECHANICALLY  
ATTACH TO EXTERIOR OF BUILDING. SHOW OSA  
APPLICATION NUMBER, MANUFACTURER'S NAME AND  
SERIAL NUMBER. ALSO, O.S.A. TAG W/O.T.A.  
NUMBER WITH ROOF LIVE LOAD AND WIND LOAD.
- 14 CHALKBOARD: NELSON ALEXANDER CO. NACO SERIES  
60, WITH 1/2" PLYWOOD SUBSTRATE. FULL  
LENGTH MAP RAIL WITH CORK INSERT AND SIX MAP  
HOOKS, EXTRUDED ALUMINUM MOLDINGS AND CHALK  
TROUGH WITH FLAG HOLDER.
- 15 FIRE ALARM: SEE SHEET 4.0.
- 16 DOWNSPOUTS: 2"x3"x26-GAUGE AT REAR ONLY.
- 17 PAINT COLORS:  
DRIFTWOOD: SIDING, SKIRTING, VERTICAL  
TRIM, SOFFIT, DOOR TRIM, BOTTOM CHANNEL  
RICH BROWN: FASCIA AND WINDOW TRIM.  
PREFINISHED BRONZE: DOOR AND FRAME.  
SATIN NAVAJO WHITE: ALL INTERIOR TRIM.

**Q 56. A**

OFFICE OF THE STATE ARCHITECT  
FROM GENERAL EASTMAN SECTION

AS 1283 JAN 13 1989

John P. McCurt

A.C.S.

STATE ARCHITECT

OFFICE OF THE  
ACCOUNTS COMPLIANCE SECTION

51283 JAN 11 05

COMMUNICATION PER W. JUD BOGGS

FIRE MARSHAL

W. J. Law C 9771

P.O.#'S 00780, 00893, 00919

**MODTECH, INC.**

195 EAST MORGAN STREET  
PERRIS, CA. 92370 (711)943-4014



RELOCATABLE CLASSROOM  
P.O. No.

00780, 00893 & 00919

bid. No. 790-000438

OFFICE of LOCAL ASSISTANCE

MODIECH JUL No. 1078

MODIECH JUL No. 1078

BINDER ORDER

7/22	
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**16 UPLIFT ANCHOR 3" = 1'-0"**

LEDGER 2x3N  
FILLER  
BLOCK 2x4-12"  
HANGER: KC METALS HDTF 26-2 WITH 6-16d INTO BLOCK AND LEDGER 9-GAX1-1/2" TO LEDGER TOP.  
RIDGE BEAM

**17 PANEL JOINT 3" = 1'-0"**

INTERIOR FINISH  
16d AT 8" ALT.  
STUDS  
EXTERIOR FINISH  
PANELS NAILS  
3/8" 3/8" MINIMUM TYP.

**18 PLYWOOD PANEL JOINT 3" = 1'-0"**

PLYWOOD ROOF SHEATHING  
8d AT 6"  
RAFTER

**19 CLOSURE AT MOD. LINE 3" = 1'-0"**

STUDS 2x4 SEE FRAMING ELEVATIONS SHEET 3.  
FIELD APPLIED CLOSURE 5/8"x6" WITH 10d FINISH AT 12" O.C. BOTH EDGES  
MODULE LINE

**20 PANEL SPLICE 3" = 1'-0"**

BLOCK 2x4 FLAT  
BOUNDARY NAILING  
Z-METAL FLASHING

**21. BEAM @ 1" CAMBER**

5/8" MDO PLY SAME MATERIAL AS SIDING, UNGROOVED  
16d NAIL 16d @ 12" O.C.  
A-35 PIPE LOCATION  
FLOOR FRAME  
SPACING: 2x4 PTD F INTO FRAME CONT 12" MIN LENGTH WITHOUT SPLICE @ 40" WALLS BEGINNING AT CORNERS  
2x4 PTD F BLOCKING SAME LENGTH AS 4x4  
3-16d PER SHIM BLOCK OR 12" O.C IF BLOCK IS LONGER THAN 24"  
2x8 PTD F x 24" LONG  
A-35 CLIPS TO BE LOCATED ON THE SAME 2x12 PAD. AS PIPE  
2x12 PTD F x 24" LONG  
1" O.D. GALV PIPE  
PIPE MAY BE MAX 1/4" OUT OF PLUMB

NOTES:  
1. 1" x 18" GALV PIPE MIN 1' INTO SOIL & LOCATIONS SHOWN ON FOUNDATION PLAN  
2. ON A.C. PAVING: 1" GALVANIZED PIPE AT 10" O.C. OR DRIVE 20d COMMON NAILS THRU SILL PLATE AT 32" O.C. DRILL SILL 1 1/4" MAX.  
3. ON CONCRETE PAVING: HILTI DS 82-P10 THRU SILL PLATE AT 4" O.C.

**2 MOD LINE PAD SECTION**

2x6 PTD F  
2x8 OR 2x12 BLOCKING AS REQ. TO LEVEL FOUND  
3-16d PER BLOCK  
2-8d PTD F x 24" LONG  
4-16d PER BLOCK  
2x12 PTD F x 24" LONG

**3 MOD LINE PAD SECTION**

2x6 PTD F  
2x8 OR 2x12 BLOCKING AS REQ. TO LEVEL FOUND  
3-16d PER BLOCK  
2-8d PTD F x 24" LONG  
4-16d PER BLOCK  
2x12 PTD F x 24" LONG

**1 SECTION AT VENT**

FLOOR FRAME  
SPACING: 2x4 PTD F INTO FRAME CONT 12" MIN LENGTH WITHOUT SPLICE @ 40" WALLS BEGINNING AT CORNERS  
2x4 PTD F PIN TO FRAME CONT 12" MIN LENGTH WITHOUT SPLICE @ 40" WALLS BEGINNING AT CORNERS  
VENT SCREEN 10" H" x 5" VENTS OR EQUAL MIN. 7.5 SQ. FT. OF VENTING (TOTAL)  
2x4 PTD F BETWEEN PADS TO NAIL 16d @ 12" O.C.

**FOUNDATION PLAN**

2-2 x 12 PADS @ CORNERS (TYPICAL)  
4'-11 1/2" 5'-0" 5'-0" 5'-0" 5'-0" 5'-0" 5'-0" 4'-11 1/2"  
22 1/2" TYP  
24" TYP  
NOTE: FOUNDATION DESIGNED FOR 1000 PSF  
4 x 8 x 8'-0" LG TYP  
4 x 8 x 8'-0" LG TYP  
5'-0" 22 1/2" 24" 2 x 12 x 24' LG TYPICAL  
2 x 4 @ GRADE  
1" O.D. GALV. PIPE TYPICAL  
23'-11" 11'-11 1/2" 11'-11 1/2"

**21. BEAM @ 1" CAMBER**

21'-0" TO FRONT OVERHANG  
TOP FLANGE CONT. (NO CUT)  
RIDGE CHANNEL  
1" CAMBER

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

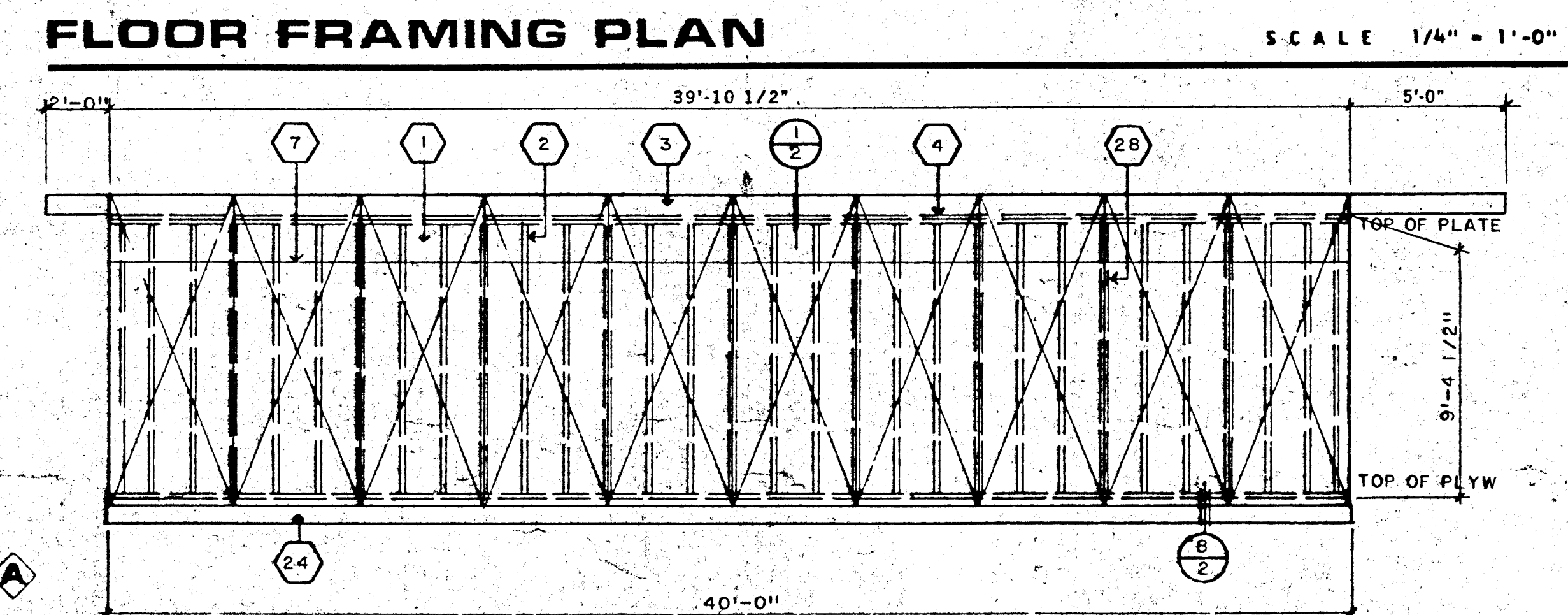
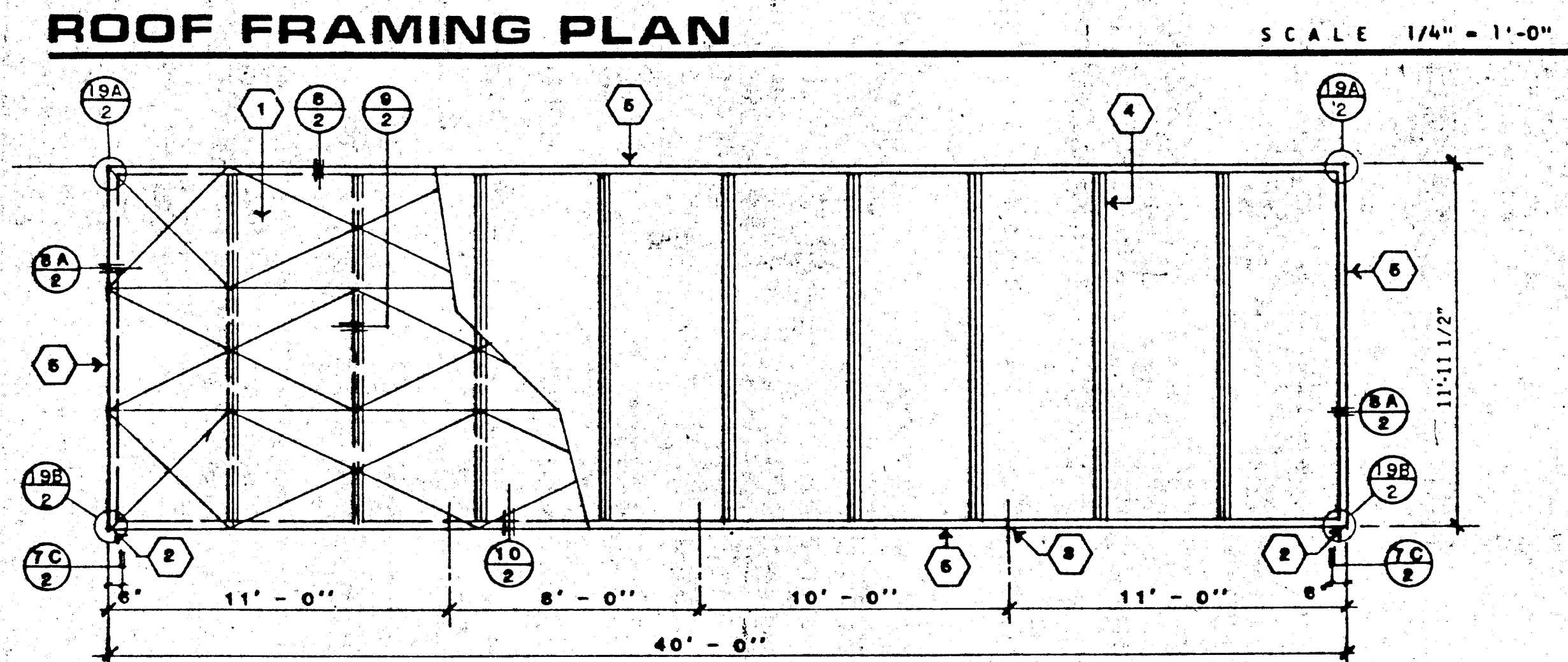
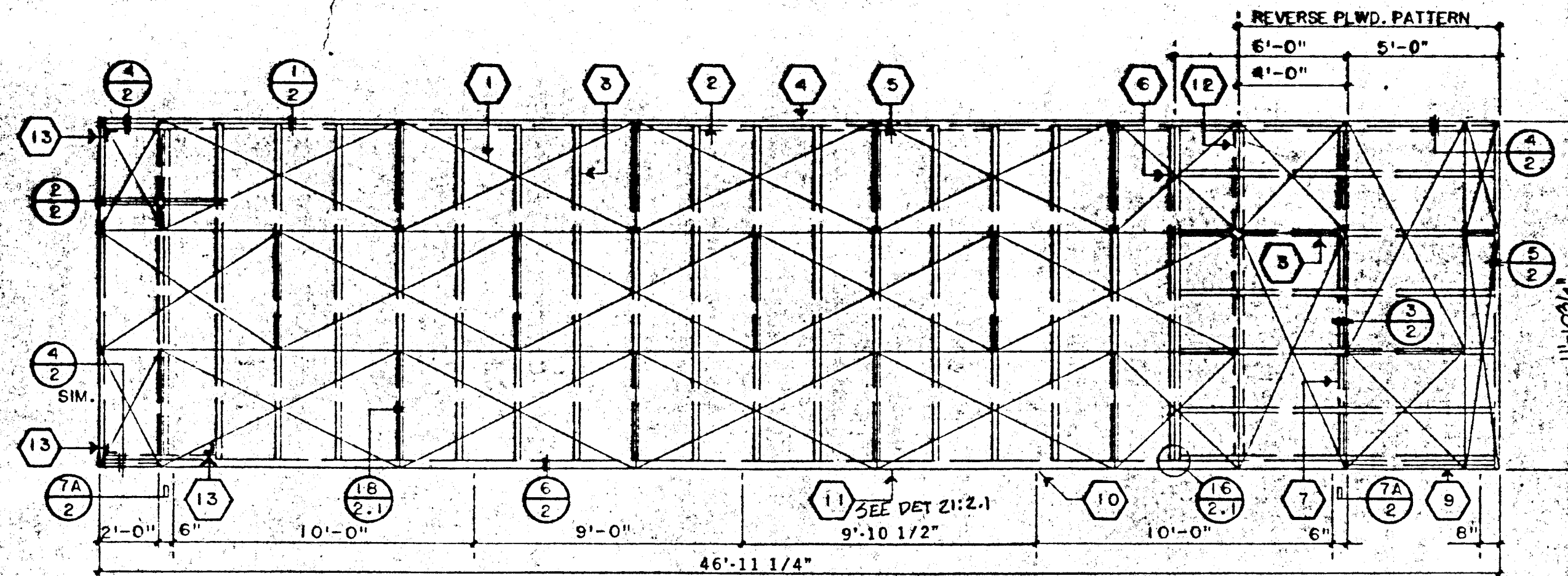
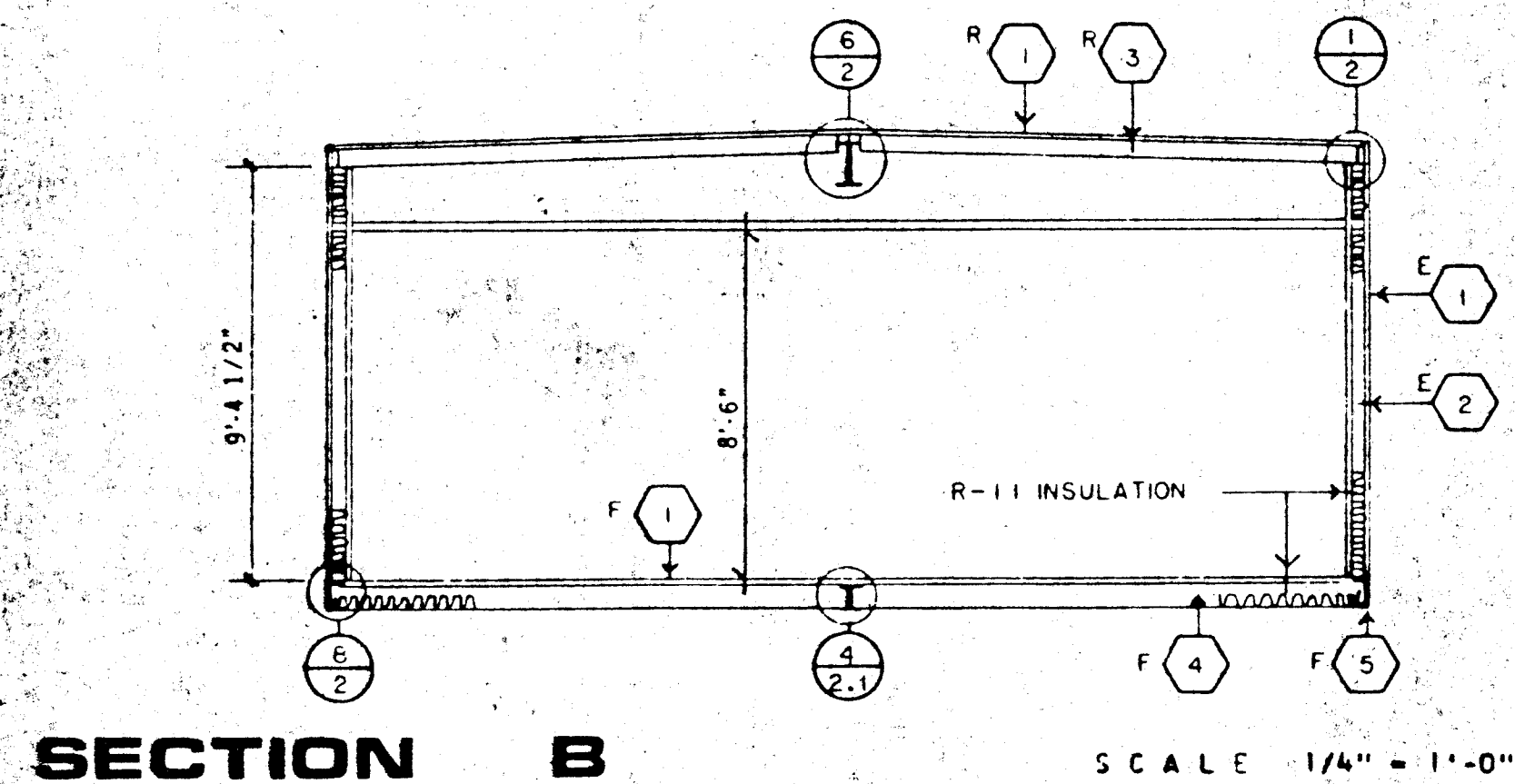
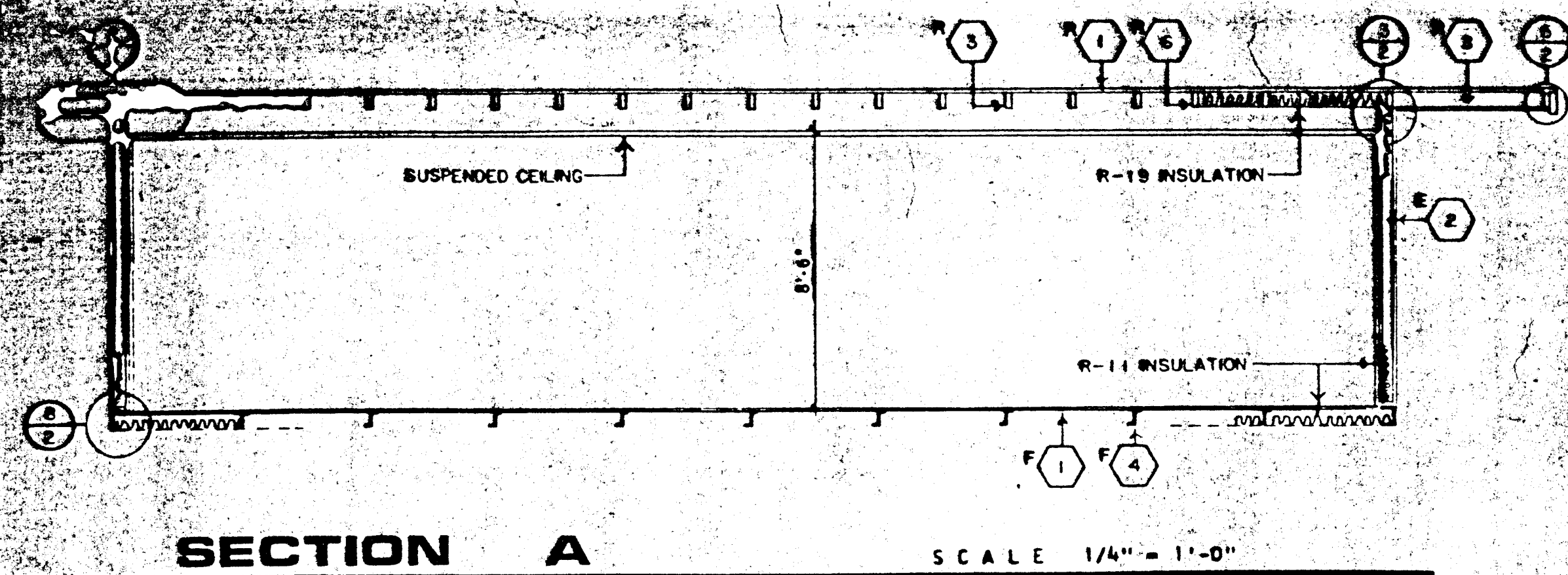
O.S.A.  
OFFICE OF THE STATE ARCHITECT  
STRUCTURAL SAFETY SECTION  
A51283 JAN 11 1989  
APPROVED BY: [Signature]  
A.C.S.  
1283 JAN 11 89  
FIRE MARSHAL

**MODTECH, INC.**  
195 EAST MORGAN STREET  
PERRIS, CA. 92370 (714) 943-4014

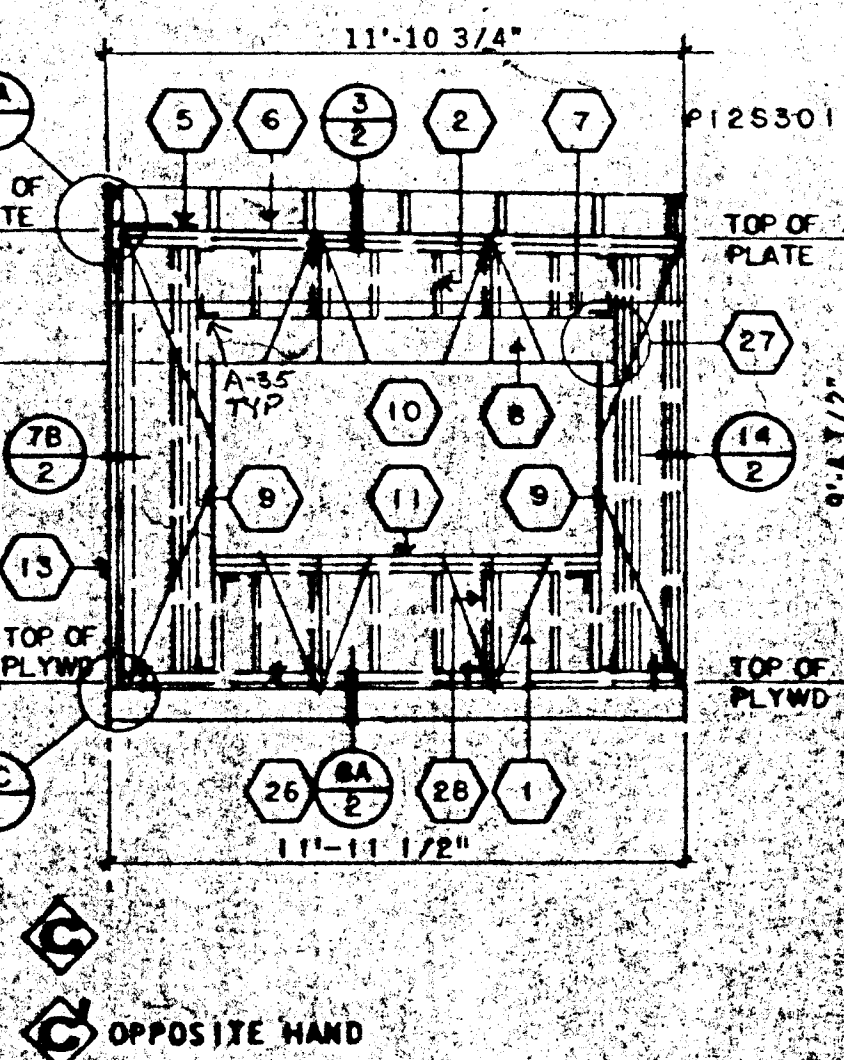
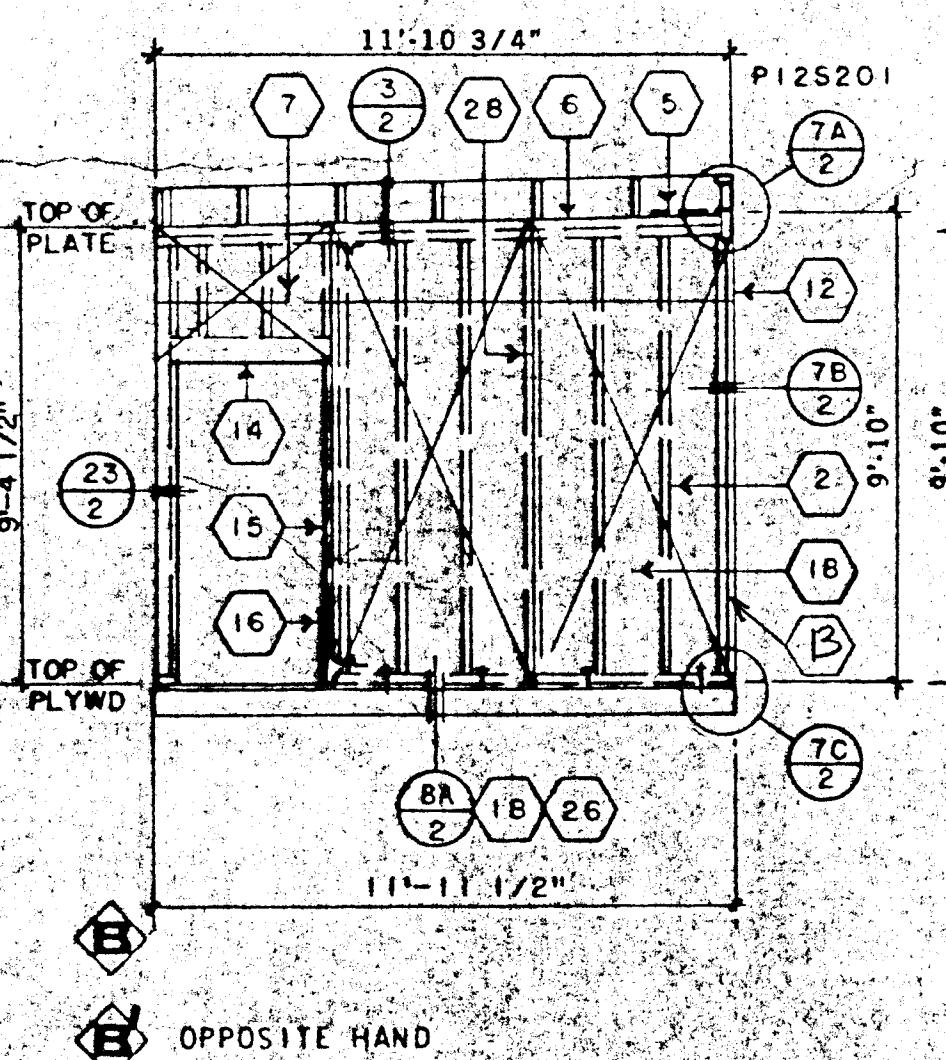
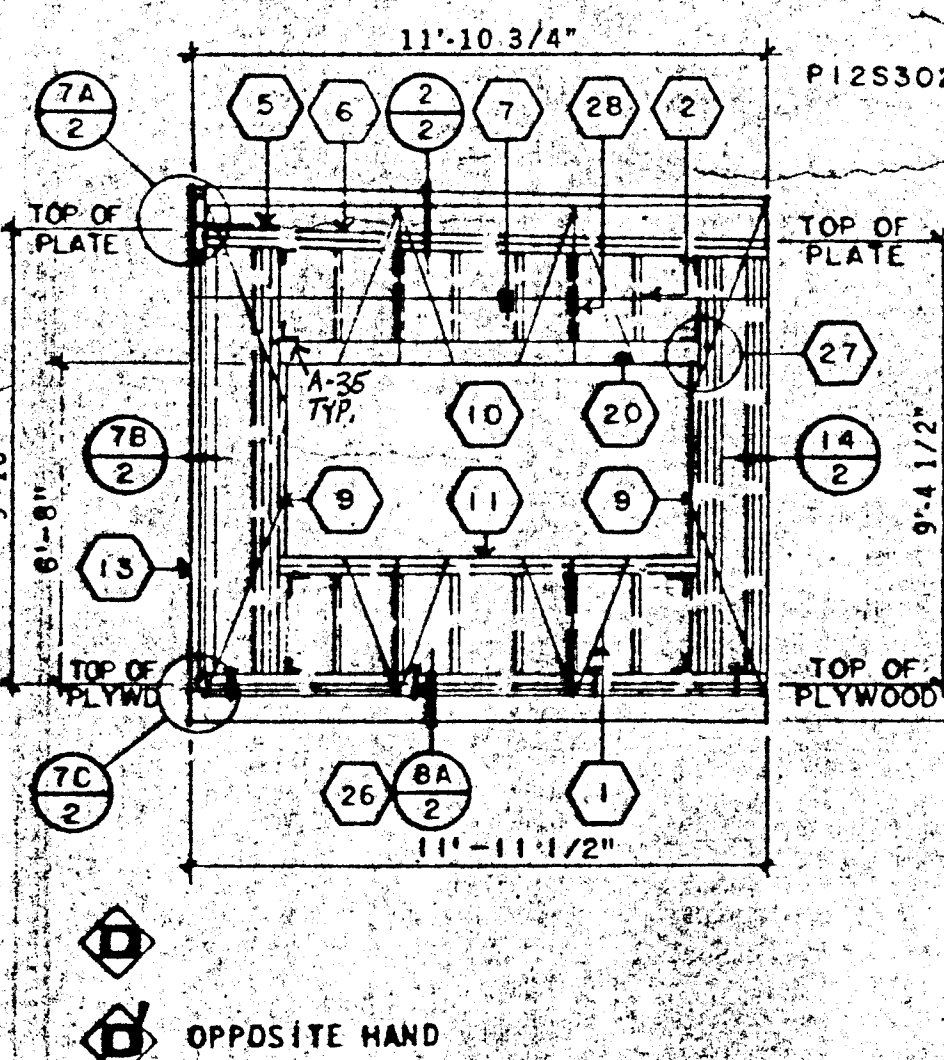
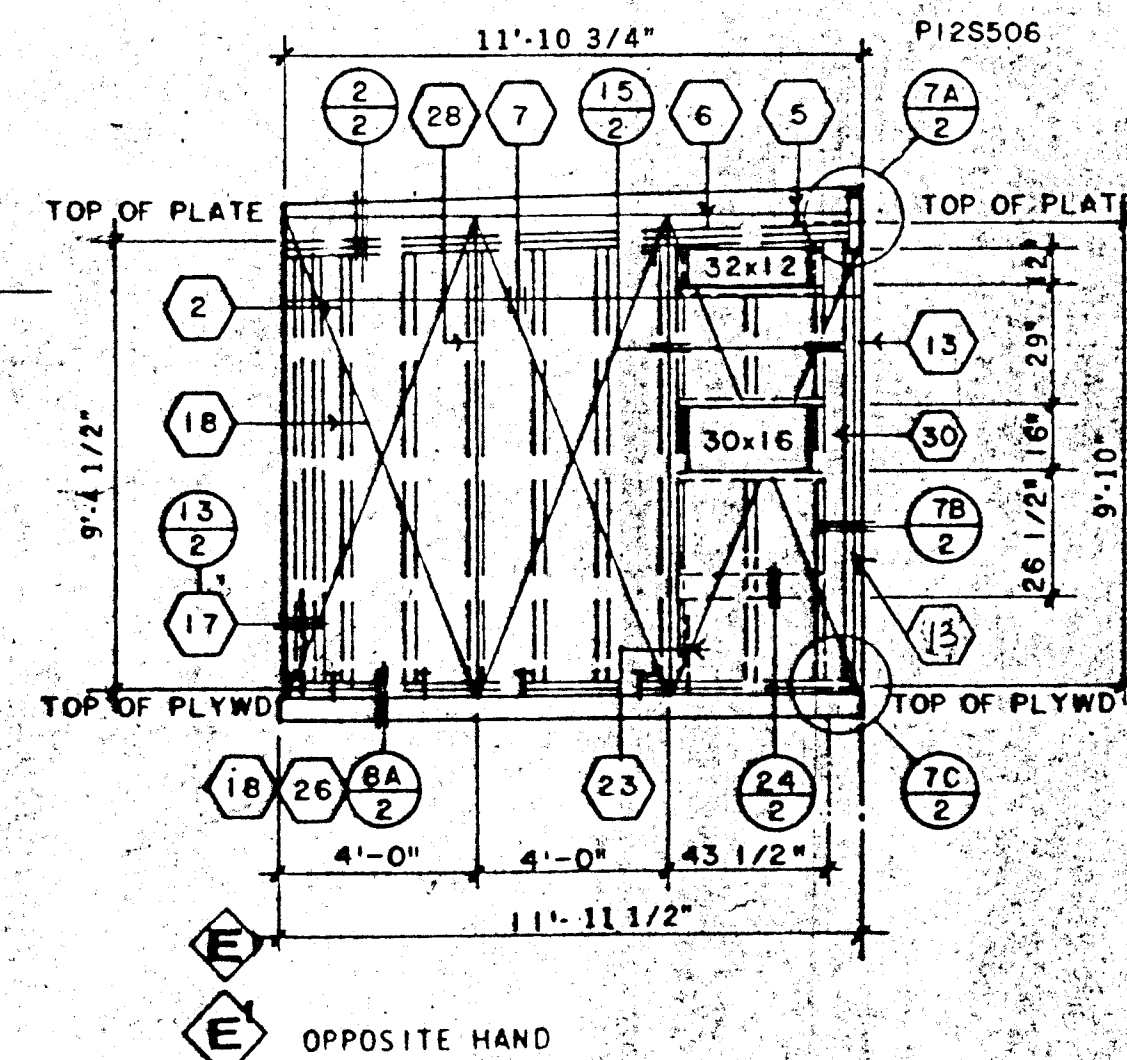
RELOCATABLE CLASSROOM  
P.O. Box 00780, 00893 & 00919  
Mid. No. 790-000438  
Office of Local Assistance  
MODTECH, Inc. No. 1078

BINDING ORDER  
**2.1**





**STRUCTURAL ELEVATION SIDE** SCALE 1/4" = 1'-0"



## NOTES

### ROOF FRAMING PLAN

- PLYWOOD ROOF SHEATHING: 3/8" INDEX, 1/2" C-D, EXPOSURE 1.
- UNBLOCKED, BOX NAILS, 8d AT 6" O.C. BOUNDARY AND SUPPORTED EDGES, 12" FIELD.
- BEARING WALL BELOW: 2x4 STUDS AT 16" O.C.
- ROOF RAFTER: 2x6 NO. 2 D.F. AT 24" O.C.
- RIM RAFTER: 2x6 D.F. #2. NAIL TO RAFTERS WITH 3-16d.
- SPLICE PLATE: 2x6 WITH 7-16d BOTH SIDES OF SPLICE. HANG ROOF RAFTER TO PLATE WITH SIMPSON U26.
- DOUBLE RAFTER: 2-2x6 D.F. #2. NAIL TOGETHER WITH 16d, TWO ROWS STAGGERED AT 24" AND 2-16d AT ENDS. HANG BUTTING RAFTERS WITH SIMPSON U26.
- SOLID BLOCK: 2x6 TIGHTLY FITTED. SIMPSON a35 BLOCK TO TOP PLATE, ONE PER BLOCK. NAIL ROOF SHEATHING TO BLOCKS 8d BOX AT 6" O.C.
- NOT USED.
- FILLERS: 2-2x6.
- BOLTS: 5-1/2" M.B. AT MODULE JOINT.
- RIDGE CHANNEL: C 12x20.7" W/1" CAMBER SEE DET 212.1
- SOLID BLOCK: 2x6.
- SIMPSON a35 IN THREE PLACES.

### FLOOR FRAMING PLAN

- PLYWOOD FLOOR SHEATHING: APA PS 1-83, 2-4-1 1-1/8" THICK, T & G, EXPOSURE 1.
- ATTACH PLYWOOD TO STEEL PERIMETER FRAME W/ 10x1-3/4" SELF-TAPPING FLAT HEAD SCREWS TO 2-7x11-GA AEROSMITH AKN 144.0175 DRIVE PINS (ICBO #4144, SUPPL. 2), AT 6" O.C. BOUNDARY AND SUPPORTED EDGES, 12" O.C. FIELD.
- COLUMN: TS 2"x2"x3/16".
- BOLTS: 5-1/2" M.B. AT MODULE JOINT.
- FLOOR JOISTS: 2-7x11-GA AT 48" O.C.
- C 7x9.8 PERIMETER FRAME.

### STRUCTURAL ELEVATIONS

- TYPICAL 5/8" EXTERIOR PLYWOOD (SEE NOTE 1:1): GALVANIZED BOX NAILS 8d AT 6" BOUNDARY AND SUPPORTED EDGES, 12" FIELD. NAIL TO RIM RAFTER AND TOP PLATE 8d AT 6".
- STUDS: 2x4 AT 16" O.C.
- RIM RAFTER: SEE NOTE ON ROOF FRAMING.
- DOUBLE 2x4 TOP PLATE AT SPLICES LAP 4'-0" AND NAIL 8-16d BOTH SIDES OF SPLICE. FACE NAIL PLATES 16d AT 12" O.C.
- STEEL STRAP PLATE: NAIL WITH 8-16d NAILS. SEE DETAIL 17:2.
- DOUBLE PLATE: 2-2x4 CONTINUOUS.
- SPLICE IF 8' HIGH PANELS ARE USED. SEE DETAIL 20:2.1.
- HEADER: 4x8 #2 DOUGLAS FIR.
- TRIMMER: 1-2x4 AND KING STUDS 3-2x4 WITH SIMPSON a35 TO PLATE AND SILL.
- FRAME FOR 8'x40' WINDOW CENTERED IN PANEL.
- 2-2x4.
- COLUMN: TS 2"x2"x3/16" ONE 2x4 STUD ATTACHED WITH HILTI DN 52-P8, MINIMUM OF 13 OR 3-1/2" STUD BOLTS, 1 AT BOTH ENDS AND ONE AT MIDDLE.
- COLUMN: TS 2"x2"x3/16" ONE 2x4 STUD ATTACHED WITH 6-14d OR 6-10d PINS MIN. OF 3.
- HEADER: 2-2x4 #2 DOUGLAS FIR. W/ PLWD. FILLER.
- TRIMMER: 1-2x4 AND 2-2x4 KING STUDS. FACE NAIL 2x4s 16d AT 8" O.C.
- HOLD DOWN ANCHORS: SEE DETAIL 18:2.
- BOLT THROUGH TRIMMER AND STUDS WITH 2-5/8" M.B.
- HOLD DOWN ANCHOR: DETAILS 13:2 AND 18:2.
- 2-5/8" M.B. THROUGH 2-2x4 STUDS.
- TYPICAL 5/8" EXTERIOR PLYWOOD (SEE NOTE 1:1): GALVANIZED BOX NAILS 8d AT 4" BOUNDARY AND SUPPORTED EDGES, 8d AT 12" FIELD.
- NOT USED.
- HEADER: 2-2x6 #2 D.F. W/ PLWD. FILLER.
- NOT USED.
- NOT USED.
- HOLD DOWN ANCHOR: BOLT THRU 2x4 TRIMMER AND 4x4 COLUMN WITH 2-5/8" M.B. ANCHOR SIMILAR TO DETAIL 13:2.
- C 7x9.8 PERIMETER FRAME.
- NOT USED.
- STUD BOLTS: 5/8"x3-1/2": ONE WITHIN 9" FROM END OF PLATE AND ONE AT THIRD POINTS, TOTAL OF 4.
- NAIL THRU VERTICAL INTO HORIZONTAL HEAD OR SILL, MINIMUM 4-16d PER CONNECTION. TYPICAL AT CORNERS OF OPENINGS.
- STUD AT PANEL JOINT: 2-2x4 NAILED TOGETHER WITH 16d AT 8" O.C. SEE DETAIL 17:2.1.
- NOT USED.
- POST 4x4. TOENAIL BOTH SIDES 16d AT 24" TO 2x4 ATTACHED TO TS COLUMN. SIMPSON a35 TO TOP AND BOTTOM PLATE.

O.S.A.

PRICE OF THE STATE ARCHITECTURAL & SURVEY SECTION

A51283 JAN 11 1999

APPLICATION NO. 51283 JAN 11 89

OFFICE OF THE STATE ARCHITECT & SURVEY SECTION

51283 JAN 11 89

APPLICATION FOR A JUDICIAL ORDER

FIRE MARSHAL

P.O.#'S 00780, 00893, 00919

**MODTECH, INC.**

185 EAST MORGAN STREET

PERRIS, CA 92370 (714) 943-1014

RELOCATABLE CLASSROOM

P.O. No. 00780, 00893 & 00919

Bldg. No. 790-000438

OFFICE OF LOCAL ASSISTANCE

MODTECH, INC. JOB NO. 1078

BINDING ORDERS

10/14/88

4012-B-150



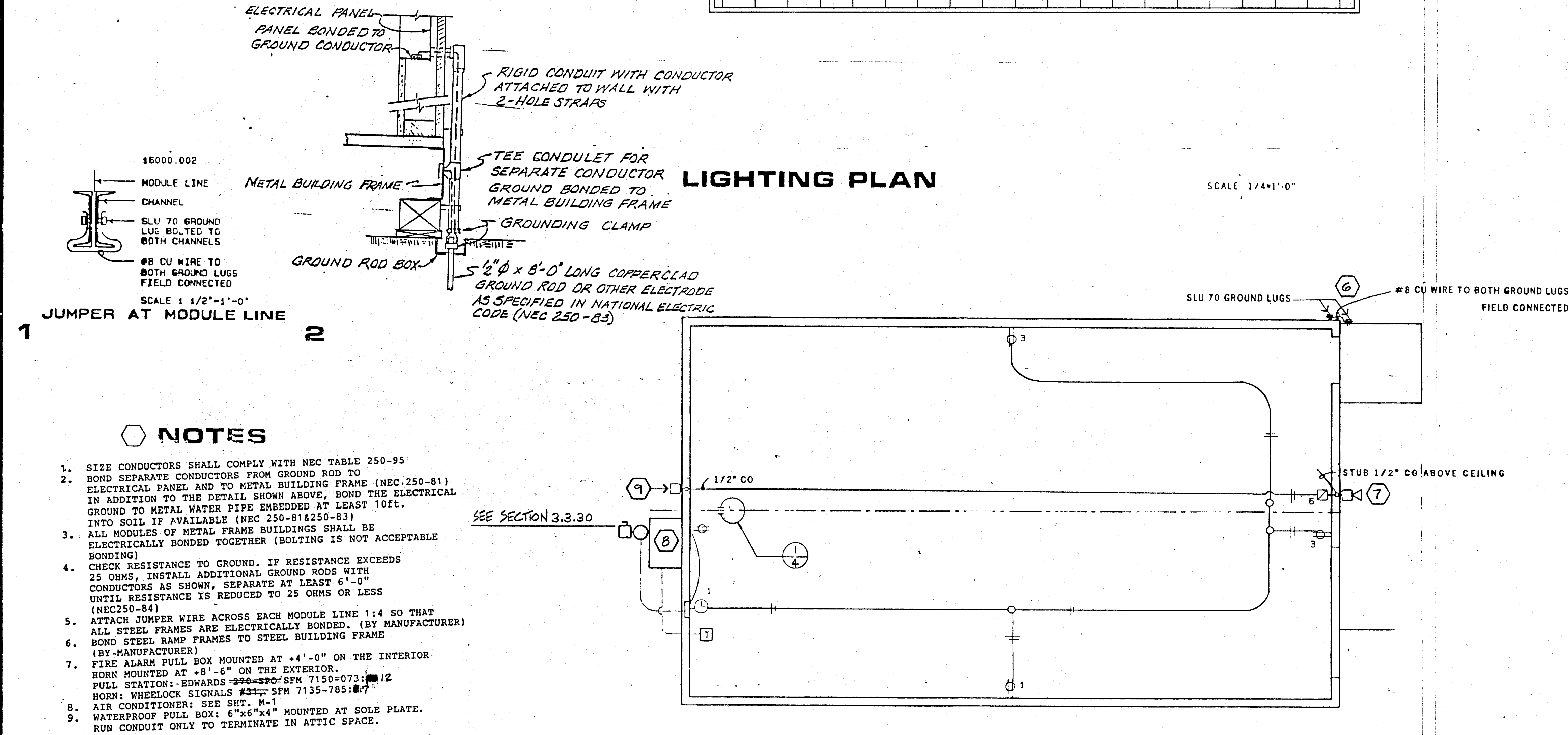
PANEL A 575USH, NEMA 1, NQO MAIN CB 100-A 2-P				
VOLTAGE 120/240 1-Ø, 1Ø-H, 3W BUS SIZE 100A				
NO.	DESCRIPTION	WATTS	AMPS	REMARKS
1	120/240 1-Ø, 1Ø-H, 3W BUS SIZE 100A	20	1	
2	120/240 1-Ø, 1Ø-H, 3W BUS SIZE 100A	20	1	
3	120/240 1-Ø, 1Ø-H, 3W BUS SIZE 100A	360	20	
4	120/240 1-Ø, 1Ø-H, 3W BUS SIZE 100A	102	20	
5	120/240 1-Ø, 1Ø-H, 3W BUS SIZE 100A	4476	20	
6	120/240 1-Ø, 1Ø-H, 3W BUS SIZE 100A	150	15	
7	120/240 1-Ø, 1Ø-H, 3W BUS SIZE 100A	476	-	
8	120/240 1-Ø, 1Ø-H, 3W BUS SIZE 100A	-	-	
9	120/240 1-Ø, 1Ø-H, 3W BUS SIZE 100A	-	-	
10	120/240 1-Ø, 1Ø-H, 3W BUS SIZE 100A	-	-	
11	120/240 1-Ø, 1Ø-H, 3W BUS SIZE 100A	-	-	
12	120/240 1-Ø, 1Ø-H, 3W BUS SIZE 100A	-	-	
TOTALS		5768	58.8	11, 616 48A (CON)

L.C.L. = 10876  
 L.C.L. X 125% = 13,595  
 OTHER = 920  
 TOTAL = 14,515 60.5 A

SYMBOLS LIST	
⊕	DUPLEX WALL RECEPTACLE 15-A 125-V 3-WIRE GROUNDING TYPE +18"
⊕	DUPLEX FLOOR RECEPTACLE 15-A 125-V 3-WIRE GROUNDING TYPE
⊕	SWITCH SINGLE POLE AT +4'-0"
⊕	SWITCH DOUBLE POLE AT +4'-0"
⊕	KEY SWITCH SINGLE POLE +4'-0"
⊕	JUNCTION BOX
⊕	THERMOSTAT +5'-0" (LOCKED AUTOMATIC)
⊕	AIR CONDITIONING UNIT
⊕	INTERVAL TIMER 6-HOUR +4'-0"
⊕	DISCONNECT SWITCH FUSED RAINTIGHT SIZE AS NOTED
⊕	CLOCK AT +7'-6"
⊕	FIRE ALARM PULL STATION +4'-0"
⊕	FIRE ALARM BELL +8'-6"
⊕	FIRE ALARM HORN +8'-6"
⊕	INTERCOM WALL OUTLET +4'-0"
⊕	TELEPHONE WALL OUTLET +4'-0"
⊕	INTERCOM OUTLET AT +4'-0" AND SPEAKER OUTLET AT +7'-6"
⊕	SPEAKER AT +7'-6"
⊕	SMOKE DETECTOR IN CEILING
⊕	TELEVISION OUTLET AT +18"
⊕	HANDICAPPED VISUAL WARNING LIGHT AT +7'-6"
⊕	TELEPHONE FLOOR OUTLET
⊕	SECURITY

FIXTURE SCHEDULE			
SYMBOL	DESCRIPTION	WATTS	MFG. & CAT. NO.
⊕	FLUORESCENT FIXTURE, 2x4 FLUSH DROP-IN, ACRYLIC PRISMATIC LENS, ENERGY SAVING BALLAST, 4-LAMP 35 WATT, WEIGHT 27-LBS	156	KEENE CORP KET F440VA
⊕	INCANDESCENT BRACKET LIGHT, WEATHER-PROOF, WITH IMPACT RESISTANT ENCLOSURE	100	KENALL 3663

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAY BE REQUIRED TO BE CHANGED DUE TO SITE LOCATION, EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

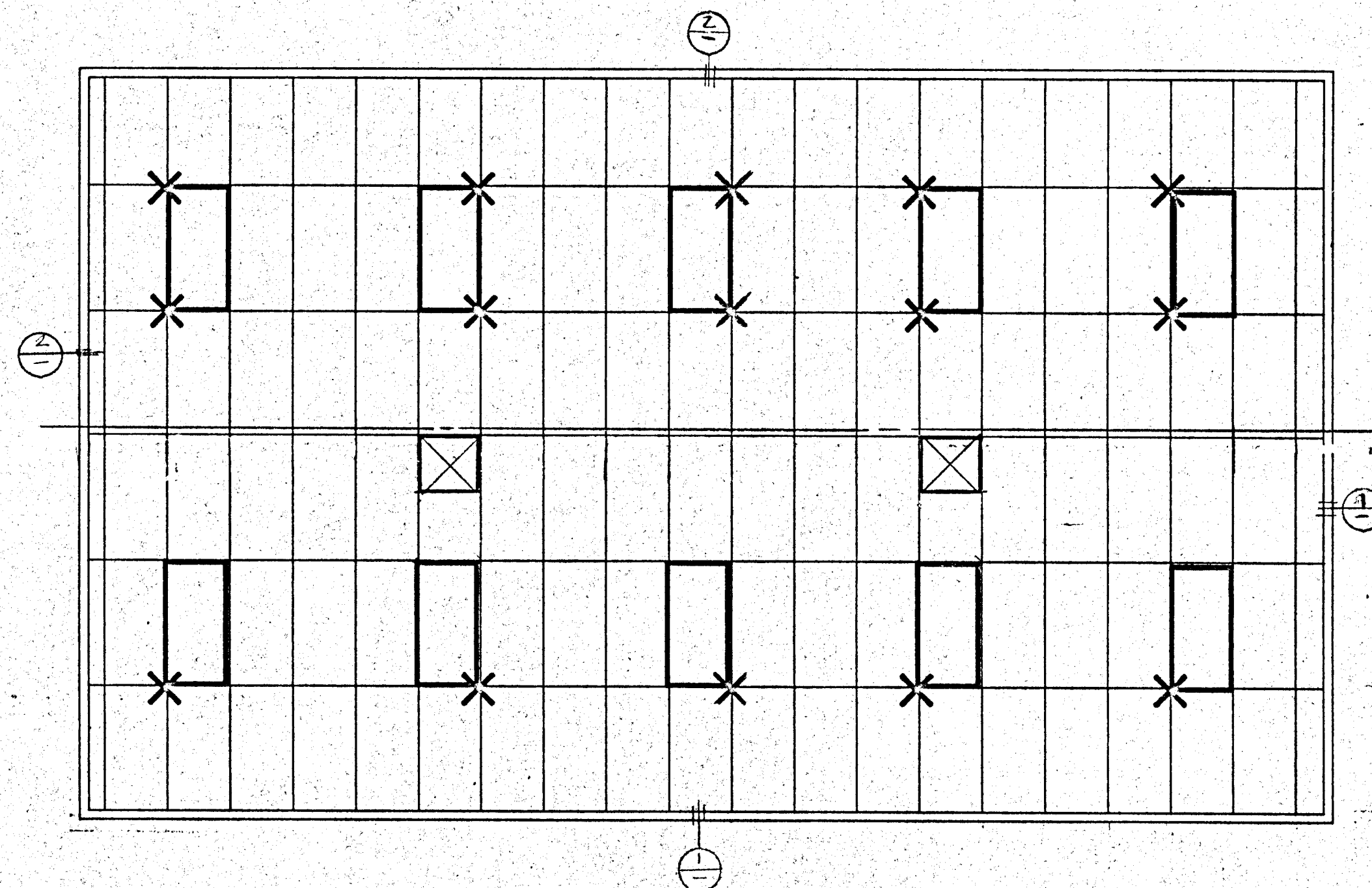
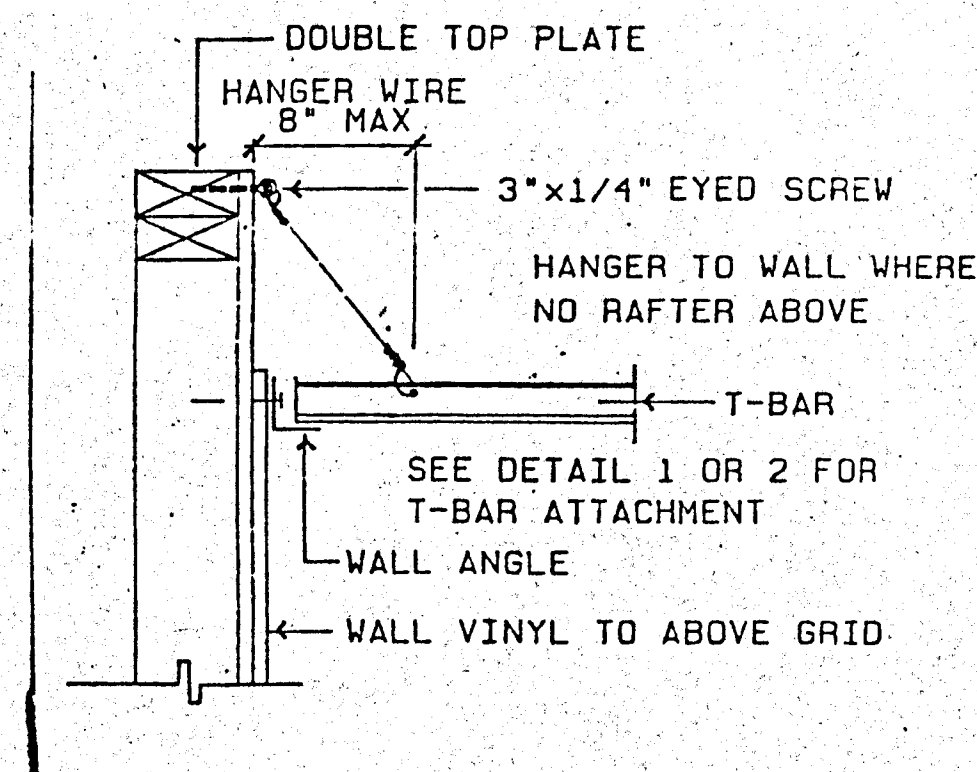
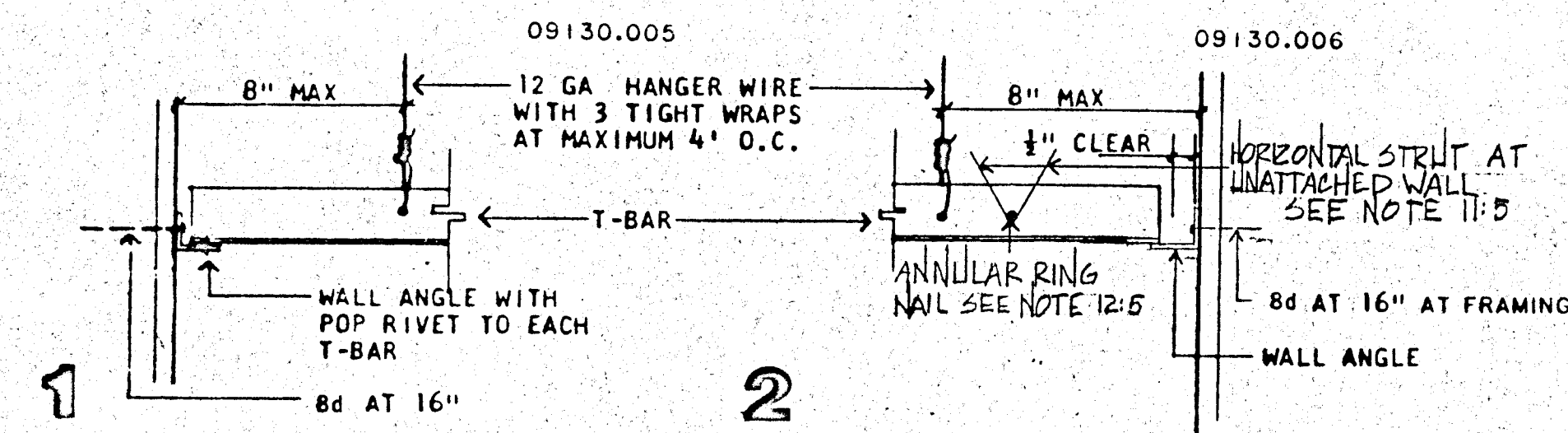
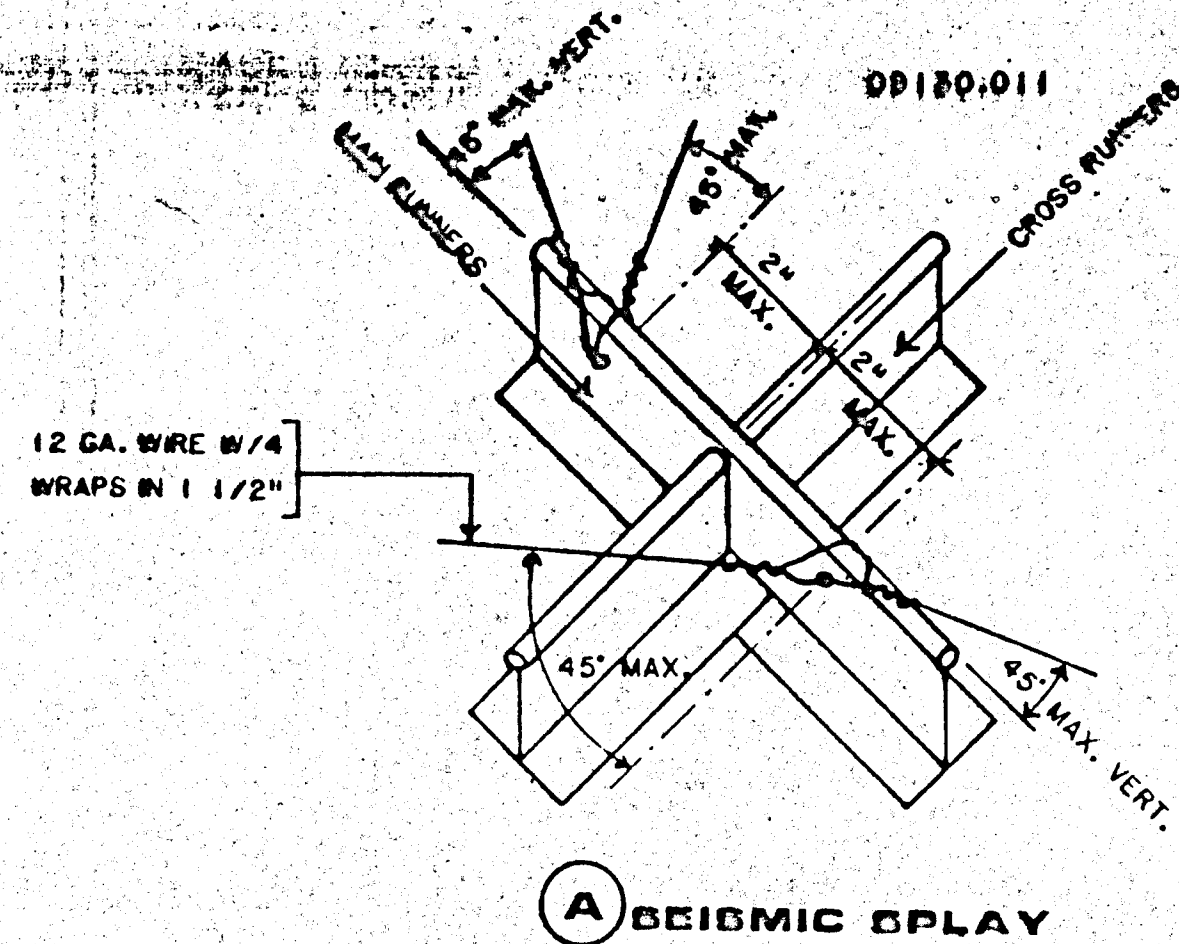
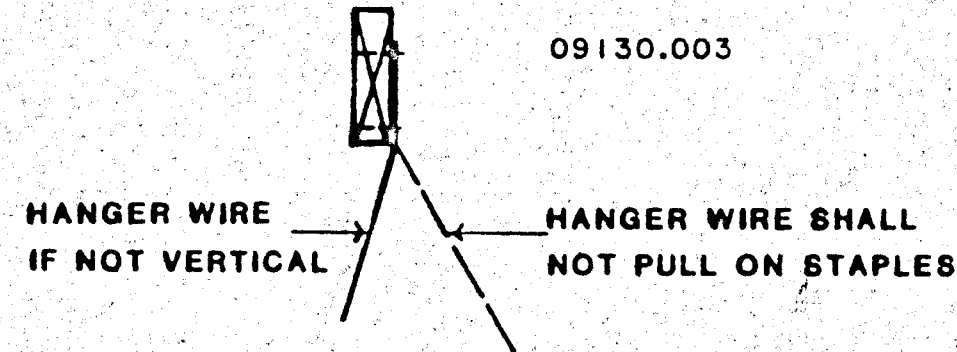
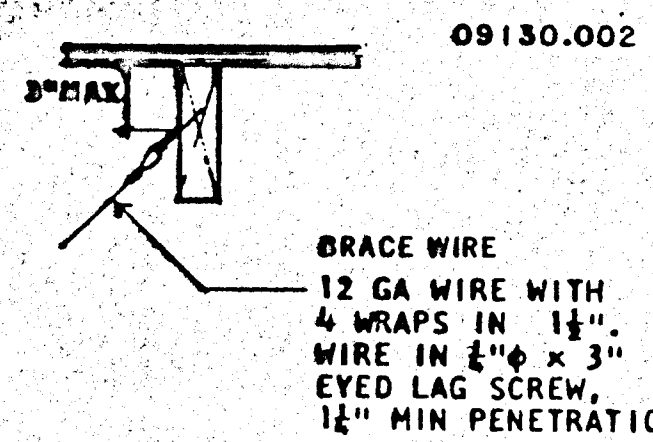
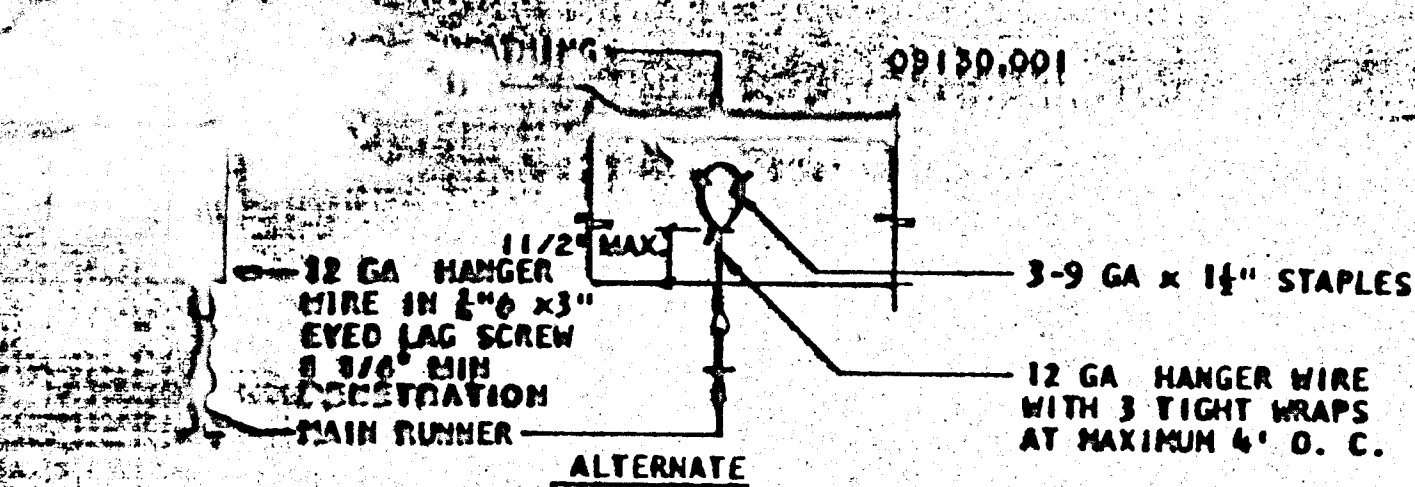


OFFICE OF THE STATE ARCHITECT  
 STRUCTURAL SAFETY SECTION  
 A51283 JAN 13 1988  
 J. P. Mc...  
 PRINCIPAL STRUCTURAL ENGINEER

O.S.A. ...  
 A.C.S. ...  
 51283 JAN 13 1988  
 FIRE MARSHAL  
 P.O.#'S 00780, 00893, 00919  
**MODTECH, INC.**  
 19.5 EAST MORGAN STREET  
 PERRIS, CA 92370 (714) 943-4014  
 RELOCATABLE CLASSROOM  
 P.O. No. 00780, 00893 & 00919  
 Bid No. 790-000438  
 OFFICE OF LOCAL ASSISTANCE  
 MODTECH JOB No. 1078  
 BINDING ORDER 6  
 10/14/88  
 4-28-89  
 4  
 4012-S-188

ELECTRICAL





REFLECTED CEILING PLAN

SCALE 1/4"=1'-0"

## NOTES

1. MAIN RUNNERS AT 4' O.C. WITH 12-GA HANGER WIRES AT 4' ON CENTER.
2. AT THE END OF ROWS OF RUNNERS A 12-GA HANGER WIRE SHALL BE ATTACHED WITHIN 8-INCHES OF WALL OR SOFFIT.
3. VERTICAL WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTERBRACING WIRES.
4. ELECTRICIAN SHALL PROVIDE TWO 12-GA SLACK WIRES TO HOUSING OF ALL LIGHT FIXTURES AT DIAGONAL CORNERS. WIRES SHALL BE ATTACHED TO STRUCTURE.
5. RUNNERS MAY BE ATTACHED TO WALL OR MOLD AT TWO ADJACENT WALLS. OTHER WALLS NO ATTACHMENT. CLEARANCE OF 1/2" BETWEEN END OF RUNNER AND FACE OF WALL.
6. CEILING AREAS SHALL HAVE 4-WAY SPLAYS PER DETAIL "A", IN LOCATIONS INDICATED ON DRAWINGS. WIRE TAUT BUT NOT TO DISTORT GRID.
7. MAIN RUNNER: 1870 CROSS RUNNER: 1854 & 1856
8. WALL RUNNER: 1420 HEAVY DUTY SYSTEM. FLUORESCENT LIGHT FIXTURE: 2x4 RECESSED. ATTACH TO GRID WITH 2-#8 SHEET METAL SCREWS.
9. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING OR SHALL NOT BE CLOSER THAN SIX INCHES TO HANGER WIRES.
10. REGISTERS SHALL BE INDEPENDANTLY SUSPENDED FROM ROOF STRUCTURE WITH 4-12 GA WIRES OR EQUIVALENT METHOD; OR SHALL BE POSITIVELY ATTACHED TO GRID WITH 4-#10 SHEET METAL SCREWS AND 2-12 GA SLACK WIRES FROM ROOF STRUCTURE.
11. THE HORIZONTAL STRUT SHALL RUN CONTINUOUS AT ALL PERIMITERS NOT POP RIVETED TO THE WALL ANGLE.
12. RING NAILS SHALL BE INSTALLED AT ALL COMPONENT INTERSECTIONS WITH THE HORIZONTAL STRUT AT UNATTACHED WALLS.
13. CEILING TILE ARMSTRONG 755B - FLAME SPREAD CLASS I

## SYMBOLS

- [Rectangle] LIGHT FIXTURE 2'x4' FLUORESCENT
- [X in Square] 2'x2' SUPPLY AIR GRILLE
- [Diagonal Line in Square] 2'x2' RETURN AIR GRILLE
- [X in Square] SEISMIC SPLAY

## SUSPENDED CEILING

OFFICE OF THE STATE ARCHITECT  
STRUCTURAL SAFETY SECTION  
A51283 JAN 13 1989  
T. McCull  
REGISTERED STRUCTURAL ENGINEER

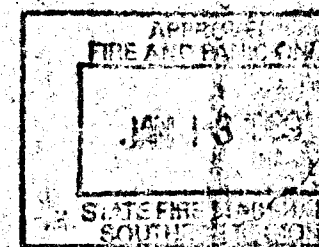
A.C.S.

OFFICE OF THE STATE ARCHITECT  
APPROVED COMPLIANCE SECTION

51283 JAN 11 1989

APPROVAL PER W. JOE BROWN  
E.O.

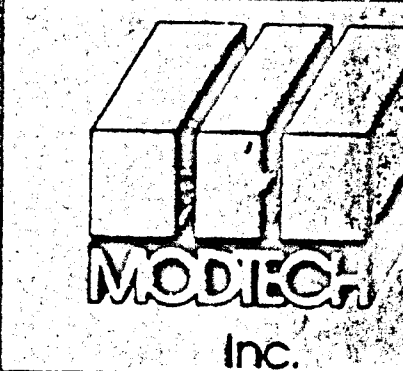
FIRE MARSHAL



Robert H. Hays C-9771

P.O.#'S 00780, 00893, 00919

**MODTECH, INC.**  
195 EAST MORGAN STREET  
PERRIS, CA 92370 (714) 943-4014



RELOCATABLE CLASSROOM  
P.O. No. 00780, 00893 & 00919  
Bid No. 790-000438  
OFFICE OF LOCAL ASSISTANCE  
MODTECH, JOB No. 1078

BINDING ORDER 7

10/14/88



4012-5-108



## GENERAL NOTES AND SPECIFICATIONS

## SECTION 01000

## GENERAL REQUIREMENTS

## 1. GENERAL

- A. The requirements of the General Conditions of the agreement and this General Requirements apply to the several trade sections with the same force as though fully repeated in each trade section.
- B. Name brands are indicated to establish a standard of quality. Items of equal or better quality may be substituted for the listed brand named products only with written approval of the Office of Procurement, Office of Local Assistance and the Agency Architect.

- C. All work shall comply with the requirements of Titles 19, 21 and 24. No changes shall be made from O.S.A. approved drawings or specifications without prior written approval of O.S.A., the Agency Architect and the Office of Local Assistance.

## 2. SCOPE OF WORK

- A. The work consists of manufacturing off-site in a plant, and installing on-site, modular relocatable buildings as defined herein and shown and detailed on drawings.

- B. All requirements of Titles 19, 21 and 24 of the State of California Administrative Code relating to inspections and verified reports shall be complied with and shall include:

- General responsible charge of Field Administration by the Architect of Record.
- Inspection in-plant during the course of construction by an inspector approved by the Office of the State Architect and the Architect. The inspector shall be responsible for and approved to inspect the general construction, welding, mechanical and electrical work. Cost of these inspections shall be borne by the Office of Local Assistance.
- On-site inspection of the building installation electrical and utility installation or connections by an inspector approved by the Office of the State Architect and the Architect and retained by the Office of Local Assistance.
- Other special tests or inspections as may be required by the Office of the State Architect.

## 3. WORK NOT INCLUDED

- A. All on-site or off-site utilities and the connection of them to the building unless indicated on the drawings.
- B. All leveling, grading or other site preparation except concrete or wood leveling strips, where required, unless otherwise indicated on the drawings.
- C. Fire alarm system, fire extinguisher, program bell, clock, public address system, intercom system, TV system unless otherwise indicated on the drawings.

4. ACCESSIBILITY OF SITE. The School District shall provide access to the site for the installation of buildings. Removal of trees, shrubs, fencing, sprinklers, etc. necessary for the move-in of buildings shall be the responsibility of the School District.

## 5. GENERAL CONSTRUCTION

- A. Structural Frame. Each module shall be designed as a shear wall structure to withstand vertical and horizontal loads and comply with requirements of the Office of the State Architect. The necessary provisions shall be incorporated in the structure to permit the relocation of the structural frame in sections not exceeding 12-feet in width.

- B. Floor. The floor shall be steel framed with a design live load of 50-lbs. per square foot. Ramp and landing floor load shall be 100-lbs. per square foot.

- C. Watertightness. Workmanship and materials shall be such that buildings will be weathertight and watertight.

## SECTION 05120.1

## STRUCTURAL STEEL

## 1. GENERAL

The Contract Documents are fully a part of this Section.

## 2. SCOPE OF WORK

- Contractor shall provide all labor, materials and services required for structural and miscellaneous steel as specified and indicated on the drawings.

## 3. MATERIALS

- A. Structural Steel Shapes. ASTM A-36, open hearth or electric-furnace only, all regular shapes as described in AISC Construction Manual, unless noted otherwise.
- B. Cold-Formed Light Gauge Steel. ASTM A-570, Grade C, minimum yield 33,000 PSI.
- C. Structural Pipe and Tubing. ASTM A-500 Grade B or A-53 Type B Grade B.
- D. Bolt Materials. Bolts and nuts, American Standard Regular, as detailed in AISC Construction Manual, fabricated from structural quality steel, ASTM A-307.
- E. Arc-Welding Electrodes. Class E-70 Series for welding A-36 steel and E-36 Series for welding A-570 steel to A-36, conforming to requirements of the "Structural Welding Code" of American Welding Society, latest edition.

## 4. WORKMANSHIP

- A. General. All work shall conform to requirements of AISC Standard Specifications, Title 21 and 24 of the California Administrative Code and the American Iron and Steel Institute Specifications for Design of Light Gauge Steel Structural Members.
- B. Welding. All welding done by shielded electric-arc or flux-cored-arc process complying with requirements of the "Structural Welding Code" of the American Welding Society. Welding done by operators qualified by tests acceptable to the Office of the State Architect.
- C. Erection. Structural steel erected true, straight, plumb and to its designated location. Field connections bolted or welded as indicated on the drawings.
- D. Nuts, Screws, etc. All exterior work shall be cadmium plated or galvanized.
- E. Handrails. Fabricated as detailed, welds ground smooth.
- F. Shop Paint.

- All steel coated with one shop coat of red oxide primer.
  - All surfaces thoroughly cleaned by effective means prior to application of shop coat.
- G. Tests.

- Provide mill certificates or test the following members per T24 Sec. 2-2727(a):  
C 12x20.7; C 7x9.8; Z 7x11-GA.
- Welds shall be inspected and/or tested per T24 Sec. 2-2727(e).

## SECTION 06100.1

## CARPENTRY

1. SCOPE OF WORK. Contractor shall provide all labor, materials and services to install carpentry.

## 2. MATERIALS

Lumber grade marked in accordance with "Standard Grading and Dressing Rules No. 16" of West Coast Lumber Inspection Bureau, or "Grading Rules for Western Lumber, 3rd Edition" of Western Wood Products Association. Plywood grade marked in accordance with "Product Standard PS 1-83 for Softwood Plywood" of American Plywood Association, complying with U.B.C. Standard 25-9.

All framing lumber marked MC-15 or surfaced dry (S-DRY).

- A. Rafters: Douglas Fir/Larch No. 2 or better, S4s.
- B. Headers: Douglas Fir/Larch No. 2 or better, S4s.
- C. Floor Joists: Douglas Fir/Larch No. 2 or better, S4s.
- D. Blocking: Douglas Fir/Larch No. 3 or better, or Hem-Fir No. 3 or better.
- E. Foundation Lumber: Lumber in contact with concrete, asphaltic concrete or earth, Douglas Fir with ANWB stamp LP-22. Lumber for above grade use, Douglas Fir with ANWB stamp LP-22. Treat cut ends and drillholes with "ZERPEL" copper 18-guanoinate. Shims shall be minimum of 1/4" thick x size of blocks.
- F. Plywood Roof Sheathing: A.P.A., 1/2"-thick, C-D Grade, Exposure 1, PS 1-83.
- G. Plywood Floor Sheathing: A.P.A., 2-4", 1-1/8"-thick, T & G, Exposure 1, PS 1-83.
- H. Plywood Siding-Sheathing and Skirting: A.P.A., V-308, 5/8", 303MDOX-8, Exterior PS 1-83, Nomah Ply Brand.
- I. Moisture Barrier: Kraft waterproof building paper, U.B.C. standard 17-1.
- J. Fascia: 2x Resawn D Select D.F. or H.P.
- K. Window Trim: 1x4 Resawn D Select D.F. or H.P.
- L. Exterior Fasteners: Nails, Electro-Galvanized, complying with U.B.C. Standard 25-1717 (1985). Other fasteners galvanized or cadmium plated.
- M. Studs and Cripples: Douglas Fir/Larch No. 2 or better.
- N. Soffits: 3/8"-thick, MDO OR NOMAH-PLY.

## 3. WORKMANSHIP

- A. Framing securely nailed, bridged and blocked to form rigid structure. Work cut, fitted and assembled level, plumb and true-to-line. Trim in as long lengths as possible with all standing trim in one piece.
- B. Nailing in accordance with Title 24, California Administrative Code: TABLE NO. 2-25-P. Machine Applied Nailing shall have prior demonstration and approval by OSA field representative and the Architect. Plywood shall have a minimum thickness of 3/8" and nailing shall be done with plywood in a horizontal position. Nailing that fractures plywood surface or MDO face is not acceptable.
- C. Moisture barrier applied to studs weather-board fashion, horizontal joints lapped minimum of 2", vertical joints lapped minimum of 6". Plywood siding applied over moisture barrier.

## SECTION 07410

## METAL ROOFING

1. SCOPE OF WORK. Contractor shall provide all labor, materials and services to install metal roofing. United States Testing Company Test Report LA 72140, CLASS "B".

## 2. MATERIALS

- A. Roofing. 2-inch standing seam 26-gauge galvanized interlocking sheet steel panels 24" wide.
- B. Base Sheet. Fiberglass 25-30 pound asphalt coated.
- C. Edge Flashing. 26-gauge galvanized steel.

## 3. WORKMANSHIP

BASE SHEET: Apply to roof deck shingle fashion with 2-inch overlap seams. Staple to deck at 12" o.c. around perimeter and at 12" o.c. through overlap seams.

INSTALL 26-gauge edge flashing around perimeter and 26-gauge ridge angles to plywood deck with #10x3/4" galvanized sheet metal screws at 12" o.c.

STARTER PANEL one piece full length from ridge to eave, attached with 3" long by 26-gauge galvanized steel hold-down clips at 3-foot maximum on center. Clips attached to roof deck with #10x3/4" galvanized sheet metal screws.

Butt panel tightly to ridge angle and set all joints in sealant. At bottom edge cut back rib 1-inch and tightly crimp edge over edge-flashing.

CONTINUE with additional panels using hold-down clips along each seam and crimping panel edges over previous panel. At finish panel cut to fit and crimp edge over edge flashing.

INSTALL continuous ridge flashing cap in field. Final installation shall be completely watertight.

## SECTION 07600

## FLASHING AND SHEET METAL

1. SCOPE OF WORK. Contractor shall provide all labor, materials and services to install indicated sheet metal.

## 2. MATERIALS

- A. Sheet Metal. Steel sheets hot dip galvanized with 1.25" or per square foot zinc coating conforming to ASTM A123. Minimum 26 gauge unless otherwise noted on the drawings.
- B. Solder. Of standard brand, Grade "A" of equal parts lead and tin ASTM B32.
- C. Flux. Zinc saturated muriatic acid.

3. WORKMANSHIP. Sheet metal accurately formed to dimensions and shapes detailed with true straight lines, corners and angles. Flashings installed in longest lengths possible. Exterior work formed, fabricated and installed so that it adequately provides for expansion and contraction in the completed work and finishes water and weather tight. Aluminum shall be separated from ferrous metal by polyethylene tape.

## SECTION 07920

## SEALANT/CAULKING

1. SCOPE OF WORK. Contractor shall provide all labor, materials and services to seal building.

## 2. MATERIALS. MAGIC SEAL elastomeric copolymer.

3. WORKMANSHIP. Sealant applied to dry clean surfaces, wherever indicated on drawings and as needed to make buildings watertight, in accordance with manufacturer's specifications.

## SECTION 08100

## HOLLOW METAL DOORS &amp; FRAMES

1. SCOPE OF WORK. Contractor shall provide all labor, materials and services to install hollow metal doors and frames.

## 2. MATERIALS

- A. Doors. Type 1 Full Flush, Manufactured by Steelcraft Manufacturing Company, 18-gauge, 1-3/4"-in. thick.
- B. Frames. 16-gauge, cold rolled, 2-inch faces. Reinforced for all required hardware and include strike boxes.

## 3. WORKMANSHIP

All work fabricated in shop per CS242, to required profiles by forming and welding, with arises and edges straight, sharp fit, fabricated accurately with square corners, hairline joints and surfaces free from warp, wave, buckle or other defects. Install sound deadening material inside doors and 1/8"-thick sound deadener inside frames. After fabrication, doors and frames cleaned thoroughly, all welds ground smooth and given prime coat.

Install frames with minimum of 3-anchors per jamb and adjustable floor anchors.

## SECTION 08710

## FINISH HARDWARE

1. SCOPE OF WORK. Contractor shall supply finish hardware as specified and as required.

## 2. SCHEDULE

A. For each exterior door:

BUTTS	1-1/2Pr.	RAGER	1191 BB 4-1/2x4-1/2 NRP 26D
LOCKSET	1	SCHLAGE	D70PD OLYMPIAD (lever)US26D
CLOSER	1	NORTON	8500PA
THRESHOLD	1	PEMCO	271A
DOOR BOTTOM	1	PEMCO	216AV
WEATHERSTRIP	1	PEMCO	299P
STOP	1	BBW	120

## 3. SPECIAL REQUIREMENTS

- A. Exit doors shall be operable from the interior without key or any special knowledge or effort.
- B. Closer shall be set for a maximum opening pressure of 8-1/2 lbs. for exterior doors, 5 lbs. for interior doors.
- C. Master key to existing.

## SECTION 09000.2

## PAINTING

1. GENERAL. The Contract Documents are fully a part of this Section.

2. SCOPE OF WORK. Contractor shall provide all labor, materials and services to paint building. All exposed surfaces of building and ramp shall be painted except aluminum window frames, thresholds and prefinished doors and frames.

## 3. MATERIALS OR EQUAL

VINYL LATEX FLAT VOL-PRO 600 BY BENJAMIN MOORE

INDUSTRIAL ENAMEL 50 SERIES-409 FINE LINE PAINT CORP. (Distributed by Benjamin Moore)

## 4. WORKMANSHIP

- A. Exterior: Wood siding, trim and skirting - apply one coat of primer and at least one finish coat. Prime coat shall be brushed on or sprayed and back brushed. Spray coating only of prime coat is not acceptable. Allow prime coat to dry according to manufacturer's recommendations. Trim and finish coats shall be compatible and manufactured by the same company. If necessary, in the opinion of the Inspector, an extra coat shall be applied to all grooves so that the finish coat will have a uniform appearance.
- B. Interior trim: Trim not pre-coated shall be painted with two coats of semi-gloss latex over primer.
- C. Metal: All metal surfaces shall be painted with 2 coats of alkyd finish coat over shop primer.

## SECTION 13000

## SITE ASSEMBLY

1. GENERAL. The Contract Documents are fully a part of this Section.

## 2. SCOPE OF WORK

Contractor shall provide all labor, materials and services to prepare the building elements, transport them from the plant to the site and to complete the assembly at the site.

The condition of the site, such as drainage and soil bearing capacity, shall be the responsibility of the School District. Unless called for in the contract steps, ramps, walkways or handrails shall not be the responsibility of the contractor.

## 3. ASSEMBLY OF ELEMENTS

- A. In a location on the site as determined by the School District, the contractor shall place concrete leveling strips or other suitable supports as detailed on the drawings.
- B. The elements shall be brought to the site on wheel assembly and transferred to the prepared site. Great care shall be taken to avoid damage to the elements by racking or bumping each other.
- C. Connection of the elements together shall be done according to instruction on the drawings. Flashings, trim and other loose items shall be installed.

## SECTION 15000

## AIR CONDITIONING

1. GENERAL. The Contract Documents are fully a part of this Section.

2. SCOPE OF WORK. Contractor shall provide all labor, materials and services to install the air conditioning system as shown on the drawings and specified including A.C. units and accessories, remote thermostat, grilles and power wiring complete to load center. Contractor shall instruct owner's operators on operation and maintenance of A.C. system. Manufacturer's literature, instructions and guarantees shall be delivered to school office.

## 3. EQUIPMENT. Air Conditioning units as noted on drawings.

4. WORKMANSHIP. Units shall be installed complete and operating with all accessories in accordance with the manufacturer's instructions.

## SECTION 16000

## ELECTRICAL

1. GENERAL. The Contract Documents are fully a part of this Section.

2. SCOPE OF WORK. Contractor shall provide all labor, materials and services for electrical installation complete with associated equipment and fixtures, in operating conditions ready for use. The work includes: light and power systems, lighting fixtures complete with lamps; connections and disconnects to A.C. equipment.

3. MATERIALS AND EQUIPMENT. All new complying with requirements of National Electric Code and National Fire Protection Association.

- A. Electric Metallic Tubing, couplings and flex conduit galvanized or sherardized.
- B. Panelboards: Flush mounted with hinged lockable doors and indexed card holders. Locks furnished by School District.
- C. Conductors: Copper, insulated for 600 volts, type TW for sizes #12 to #6, type THW for larger sizes.
- D. Receptacles: HOSPITAL GRADE.
- E. Clock Receptacle: Eagle or equal.
- F. Switches: HEAVY DUTY.
- G. Lighting Fixtures: As noted on drawings.

4. WORKMANSHIP. Materials and equipment installed in a secure, neat, workmanlike manner in accordance with Code requirements. Panelboard cards filled out. Conduit and cable installed in wall and ceiling spaces. Work piercing waterproofed areas flashed and sealed to a watertight condition.

## O.S.A.

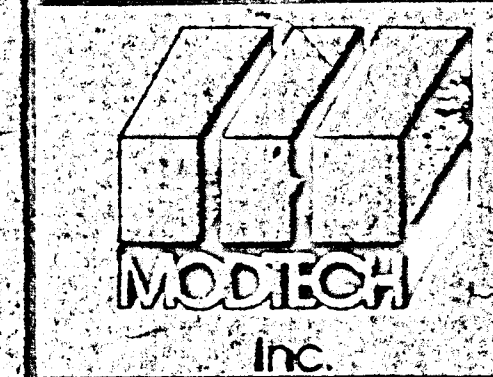
OFFICE OF THE STATE ARCHITECT  
STRUCTURAL SAFETY  
151283 JAN 11 1989  
A.C.E.  
OFFICE OF THE STATE ARCHITECT  
ADDRESS: CONTROL AND INSPECTION  
51283 JAN 11 89  
APPLICATION PER Mr. Paul Borer

## FIRE MARSHAL

APPROVED FOR  
FIRE AND MARSHAL  
JAN 13 1989  
STATE FIRE MARSHAL  
SOUTH CAROLINA

See 6/16/89 2-971

P.O.#S 00780, 00893, 00919



RELOCATABLE CLASSROOM  
P.O. No. 00780, 00893, 00919  
Bldg No. 790-000438  
OFFICE OF LOCAL ASSISTANCE  
MODTECH JOB NO. 1078

## BINDING ORDER

TOMARCO



# NOTES

OFFICE OF THE STATE ARCHITECT  
STRUCTURAL SAFETY SECTION  
A51283 JAN 13 1983  
APPROVED FOR THE PROJECT  
RECEIVED

① Heat Pump: Single package wall mounted air-to-air electric heat pump. Unit shall be rated in accordance with ARI Standard 240-77.  
Reference Brands: Bard 45 WH1-A08CDO04  
Intertherm PWY-042KAVX08  
Harvair AVP 42 HPA-08S, or comparable

All units shall be 230/208 volt, 1 phase system, UL approved or comparable and meet current energy standards.  
At elevations where the HVAC heat pump noted above is not adequate to meet the listed criteria, the contractor shall provide a HVAC heat pump that will meet the geographic requirements.

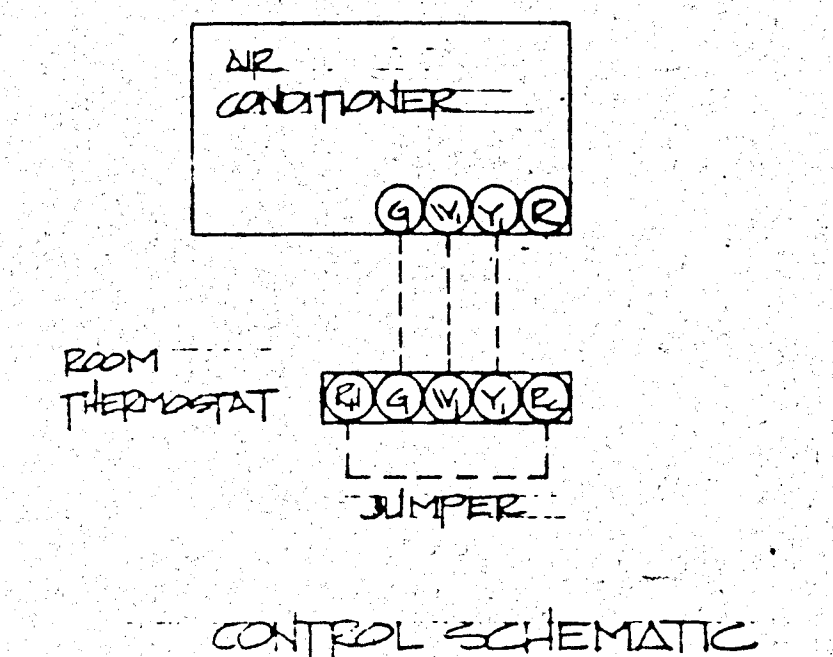
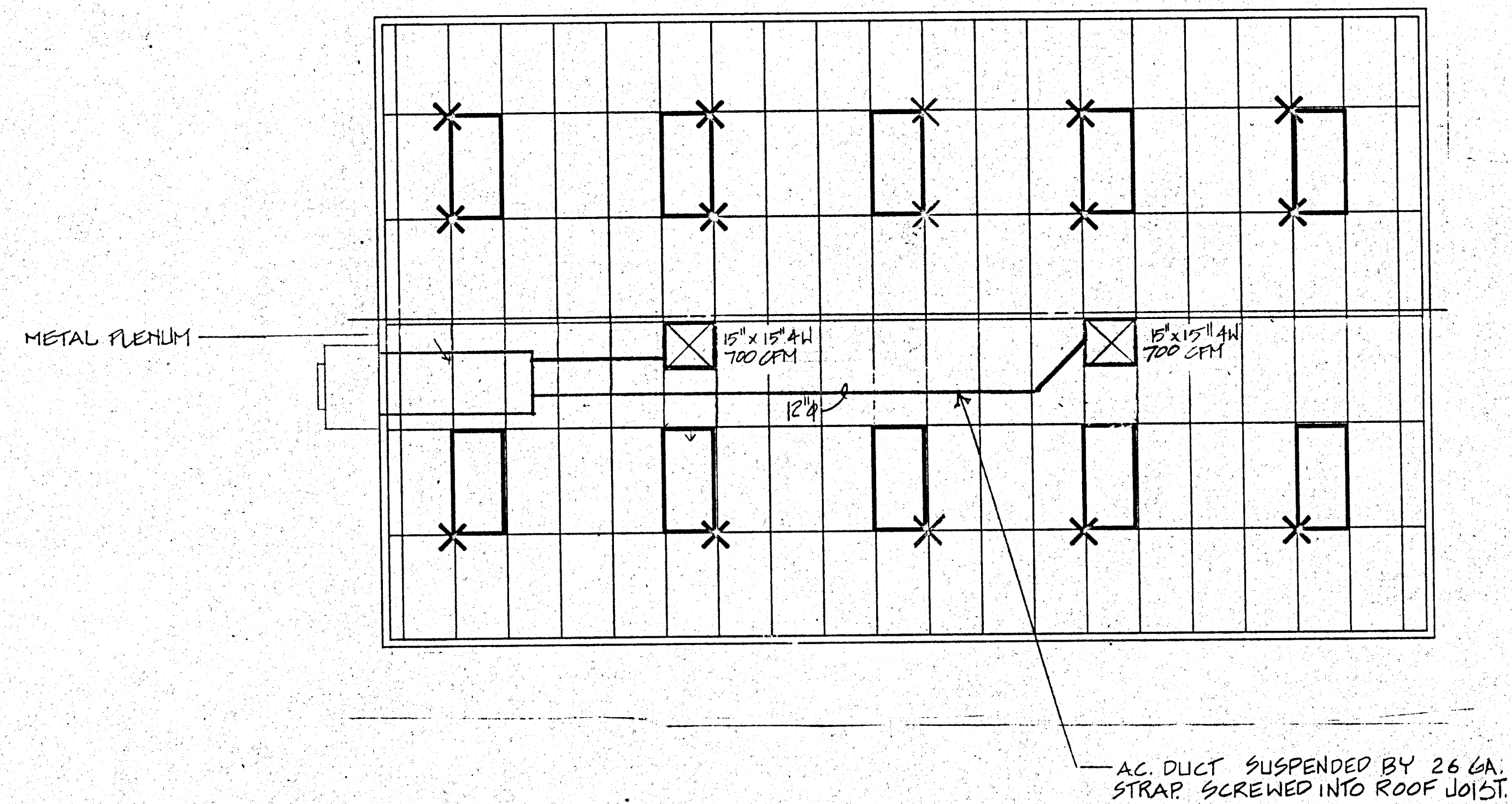
A. The system shall maintain an automatically controlled indoor classroom temperature of 78°F. in summer and 68°F. in winter with a 45% relative humidity when the outdoor dry bulb temperature varies between 100°F. in summer and 100°F. in winter and a wet bulb temperature of 72°F. (average).  
B. The system must maintain the above temperatures when the damper is adjusted to use approximately one-third fresh air.

2. Ductwork:  
A. Construct all ductwork of galvanized sheet metal in accordance with U.M.C., ASHRAE Guide Equipment Volume and SMACNA Low Velocity Duct Construction Manual, latest editions. All ductwork shall be insulated with 1" thick fiberglass duct wrap with vapor barrier. Provide 1" duct attenuation at all ductwork within 8'0" of HVAC unit.

B. Non-Metallic Ductwork Option: In accessible concealed portions of duct system rigid 1" fiberglass or insulated "Flexduct" with vapor barrier may be substituted for sheet metal ductwork. All ductwork within 5' of the HVAC unit and all interface connections shall be metal. Ductwork and reinforcement shall be designed for 2" static pressure. Reference Brands: "Owens-Corning Fiberglass" Duct Board, 1" thick, and "Manville" Micro-Aire, Type 475. Non-metallic ductwork shall conform to NFPA 90-A and 90-B and SMACNA Class 1 rating.

3. Registers and Diffusers: Provide two (min.) 4-way throw air diffusers as manufactured by Carnes, Titus, Hart & Cooley, Barber-Coleman or Krueger commercial grade grilles and registers.

4. Thermostat: Provide electronic programmable thermostat.  
Thermostat shall have the following functions:  
1. 5 and 2 weekday/weekend programming with 4 separate time/temperature settings per 24-hour period.  
2. Key board lockout switch.  
3. Programmable display.  
4. 2-hour override minimum.  
5. Status indicated LEDs.  
6. Battery back-up.  
Provide locking clear thermostat cover with access hole for program override.  
White Rodgers, 1F92 is required.



O.S.A.	
A.C.S.	
51283 JAN 11 '89	
FIRE MARSHAL	
P.O.#'S 00780, 00893, 00919	
MODTECH, INC. 195 EAST MORGAN STREET PERRIS, CA 92370 (714) 943-4014	
RELOCATABLE CLASSROOM P.O. No. 00780, 00893 & 00919 Bid No. 790-000438 OFFICE of LOCAL ASSISTANCE MODTECH JOB No. 1078	
BINDING ORDER 9	10/14/83
M-1	



4" x 10 GA. CONT. PLATE W/ #14 X 3" WS @ 12" O.C. INTO STRUCTURAL WOOD MEMBERS OR #14 X 1 1/2" TEKS SCREWS @ 12" O.C. INTO STRUCTURAL STEEL MEMBERS.

PURLINS @ 16" O.C.

3" X 1" X 3/16" ANGLE

4" X 12" LONG PLATE W/ 2- 1/4" X 3" LONG LAG SCREWS TO STRUCTURAL FRAMING OF BUILDING.

PURLINS @ 16" O.C.

HANDRAIL

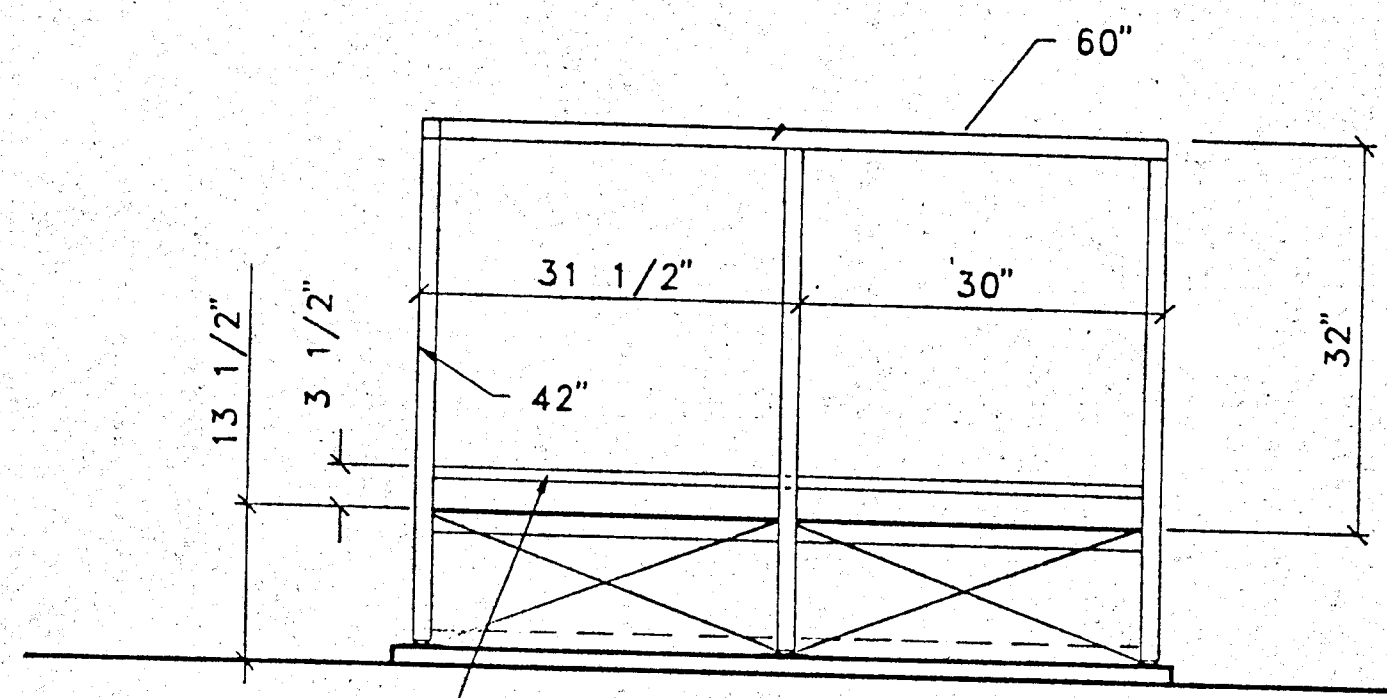
EDGE OF BLDG

4" X 12" LONG CONT. PLATE WITH #14 X 1 1/2" TEKS SCREWS AT 12" O.C. INTO STEEL MEMBERS OR #14 X 3" W.S. AT 12" O.C. INTO WOOD MEMBERS

## SECTION A

## SECTION B

12 GA. X 1 1/2" SQ. TUBE @ 38" O.C. MAY BE USED AS ALTERNATE FOR HANDRAILS



1" X 1" sq. TUBE, WHEELCHAIR WHEEL GAIRD CONT.

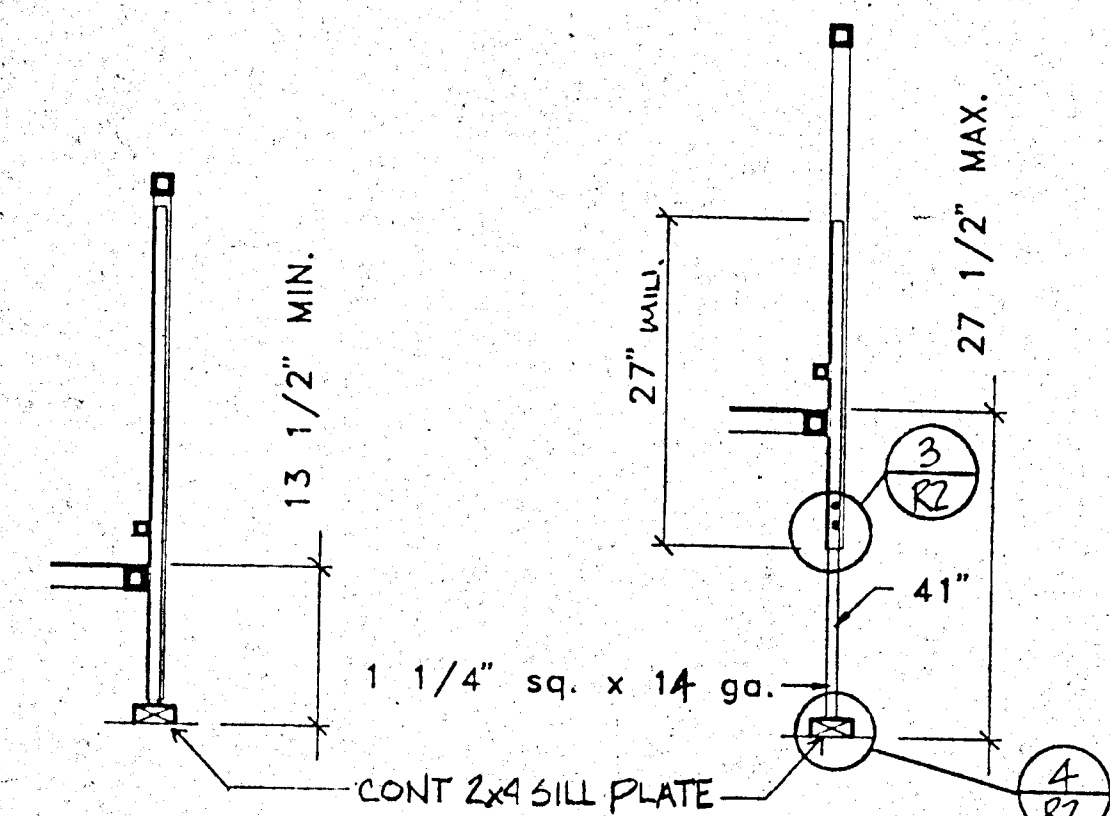
## END ELEVATION

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

## SIDE ELEVATION

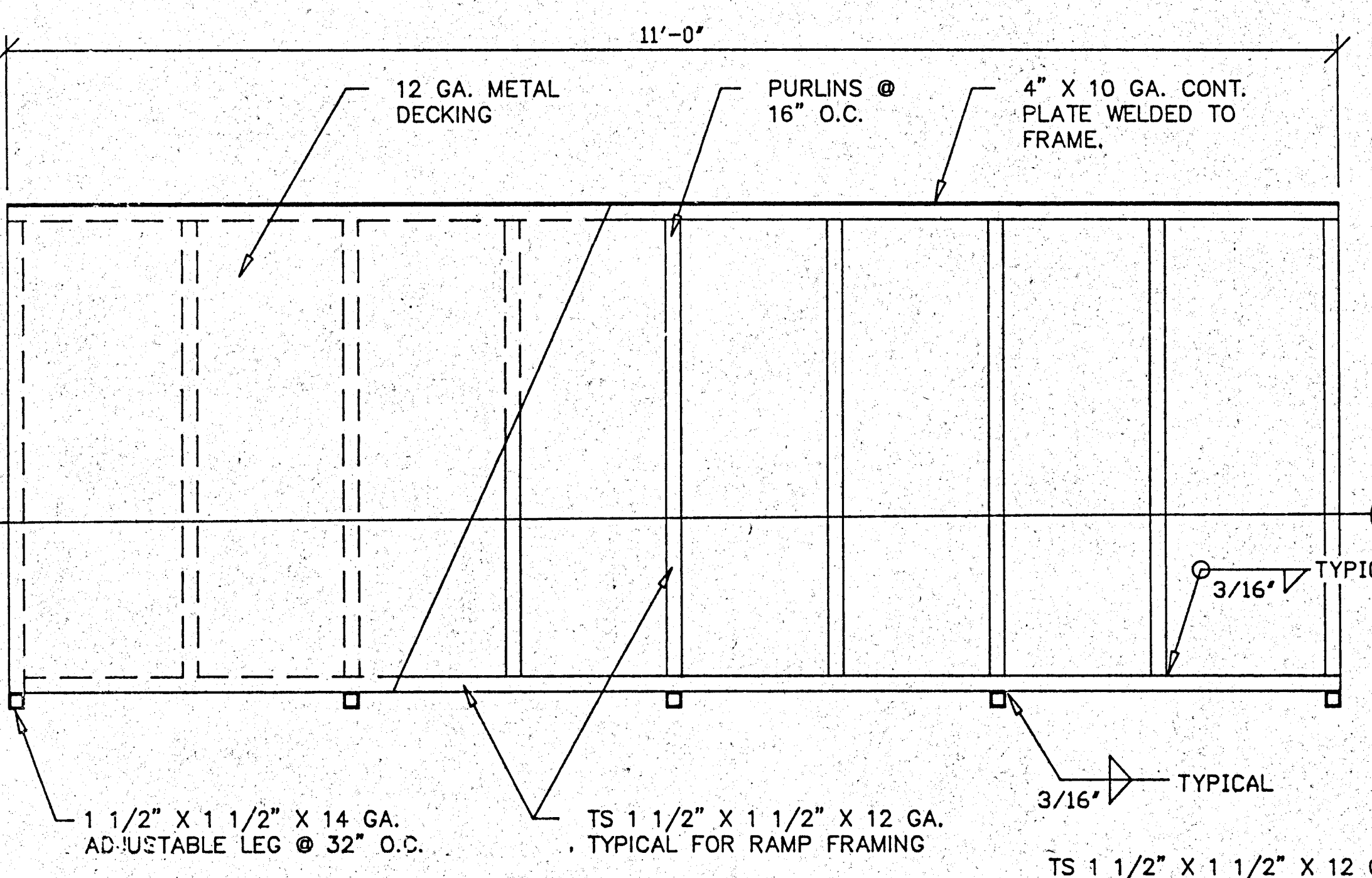
1" X 1" CONT. WHEELCHAIR WHEEL GUARD

3" X 1" X 3/16" ANGLE WELDED TO FRAME

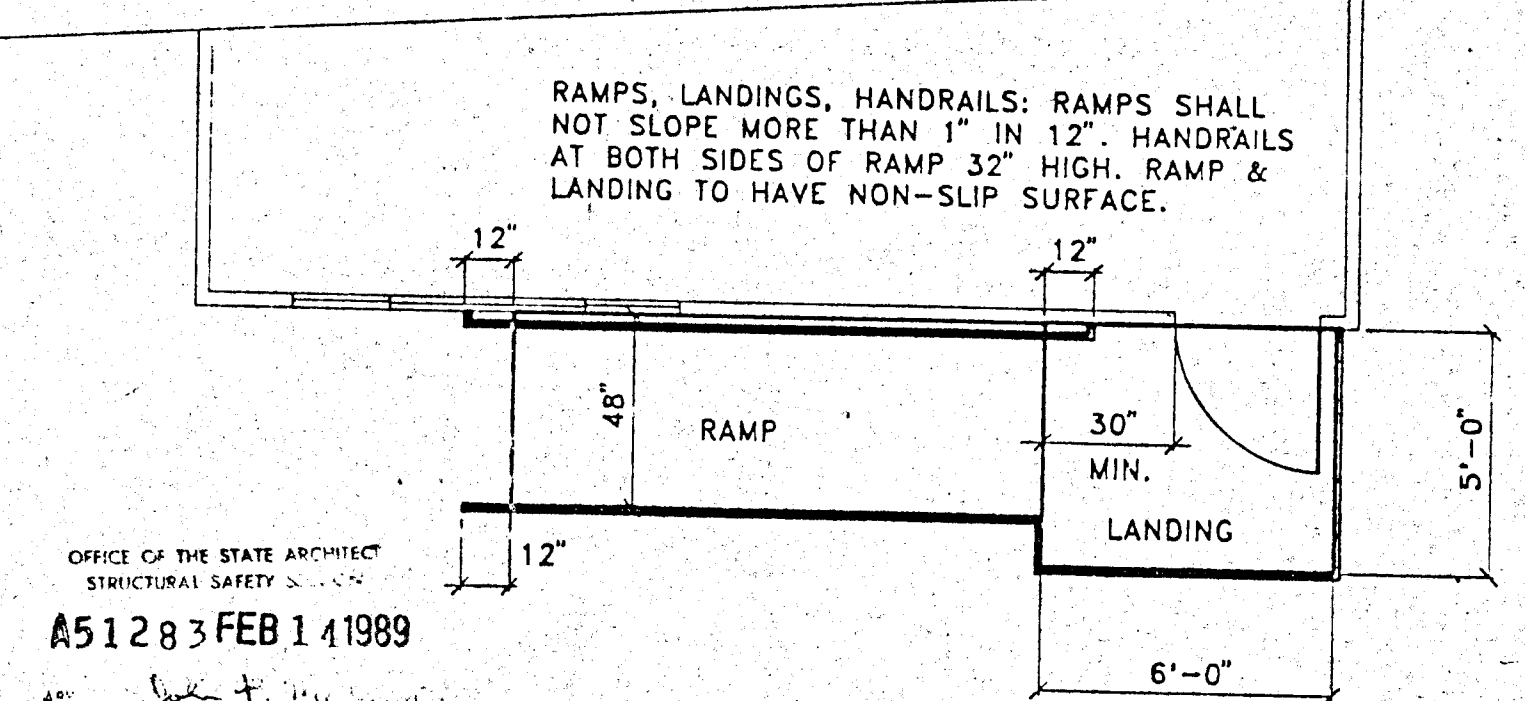
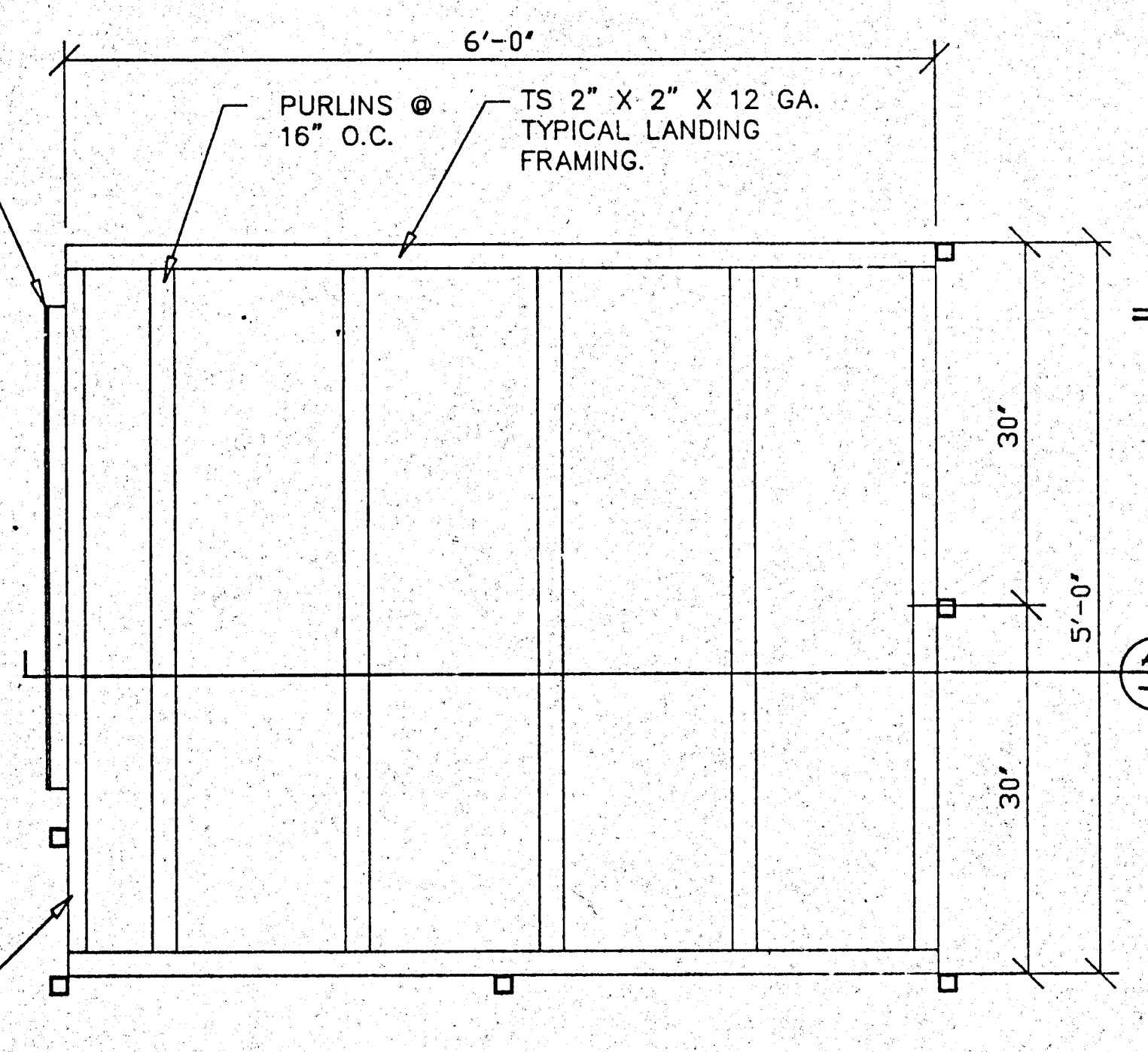


## ADJUSTABLE LEG

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



## FRAMING PLAN



## STD. RAMP PLAN

CHANGE ORDER #1

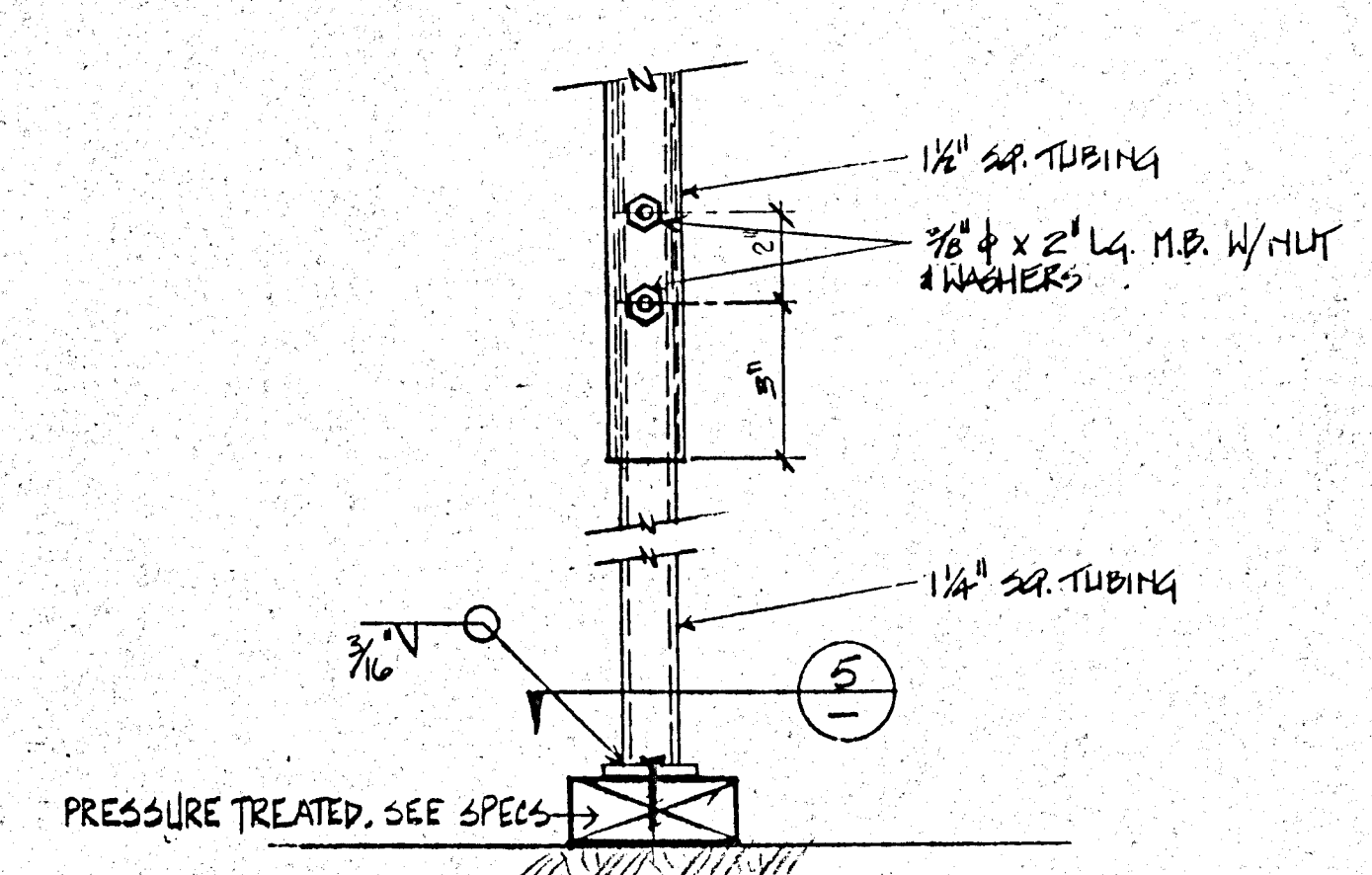
JOY & ASSOCIATES Planning  
3400 Cochran, Suite 111 • Camarillo, CA 93602  
DATE: February 6, 1989  
BY: [Signature]  
PROJECT: P.O. #00780, 00893 & 00919, 204 Classroom  
SHEET NO. 3 OF 6

O.S.A.
A.C.S.
FIRE MARSHAL

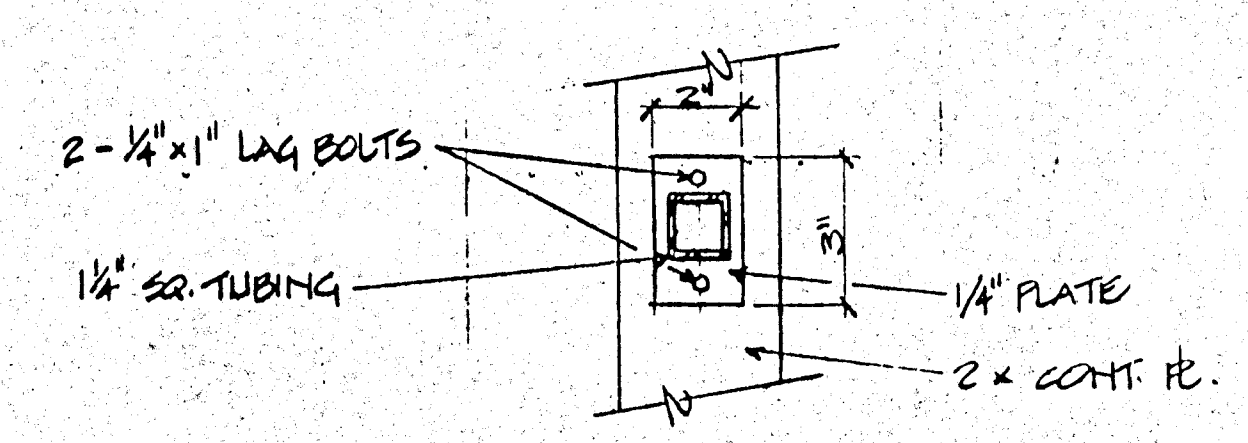
  

<b>MODTECH, INC.</b> 195 EAST MCPHAIL STREET PERRIS, CA 92404 (915) 943-4014
<b>RELOCATABLE CLASSROOM</b> P.O. No. 00780, 00893 & 00919 Bid No. 790-000438 OFFICE OF LOCAL ASSISTANCE MODTECH, INC. 10/78
<b>BINDING ORDER</b> R-1

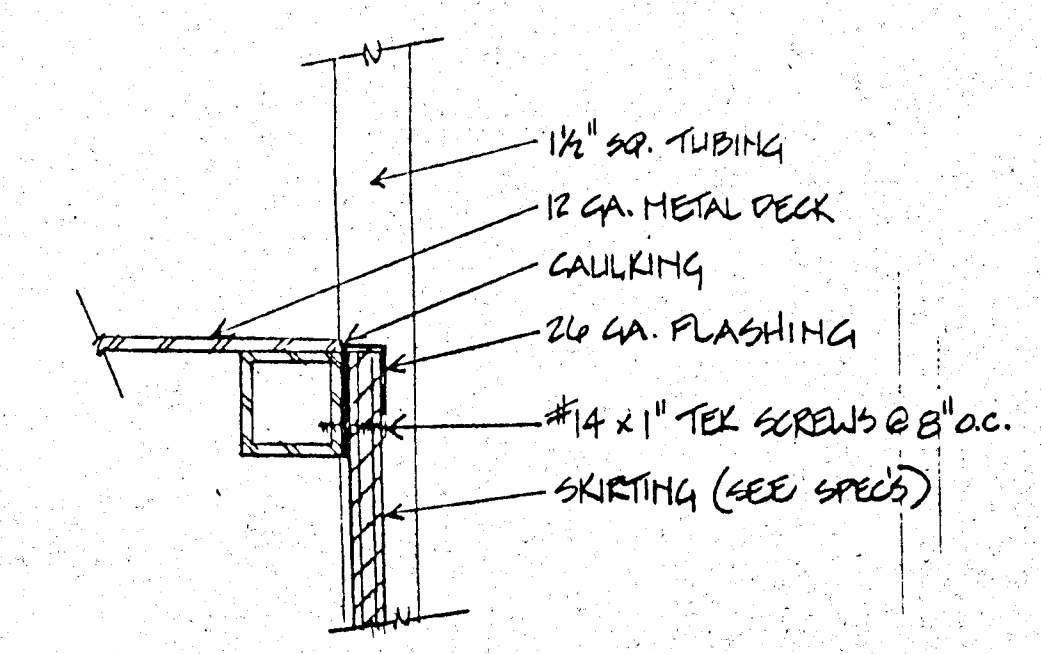




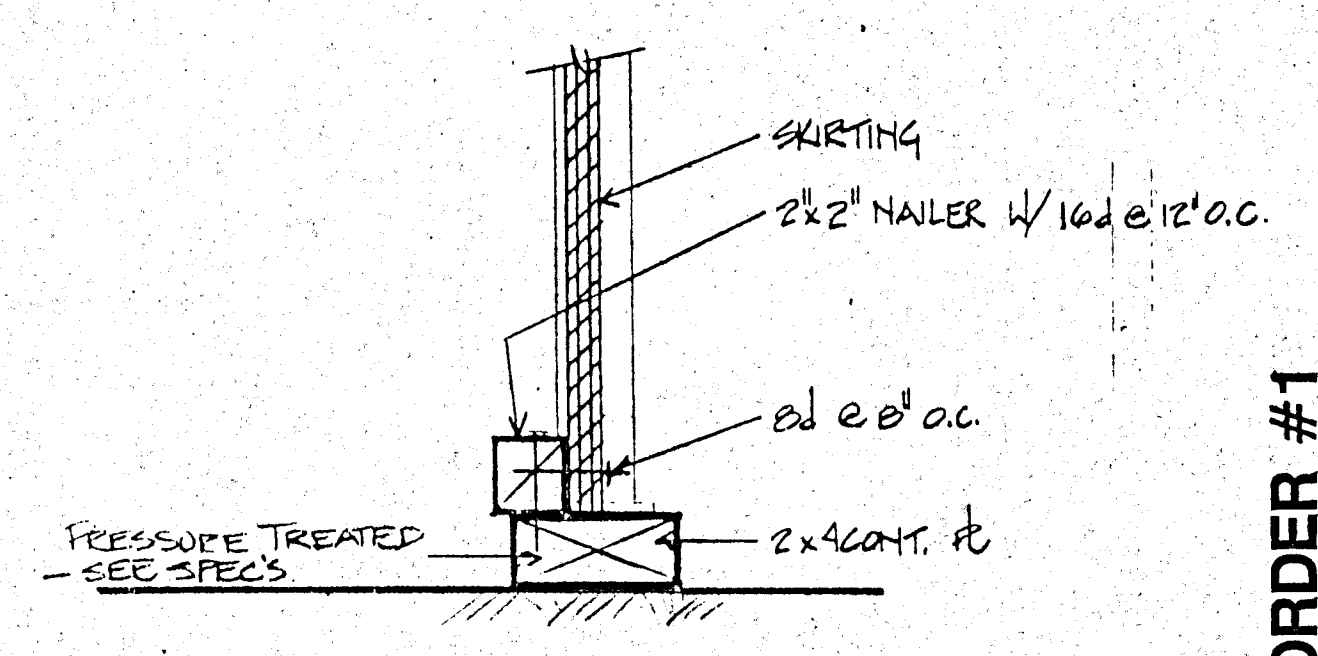
3 & 4 ADJUSTABLE LEG  
SCALE - 3" = 1'-0"



5 BASE PLATE  
SCALE - 3" = 1'-0"



1 SKIRT FLASHING  
SCALE - 3" = 1'-0"

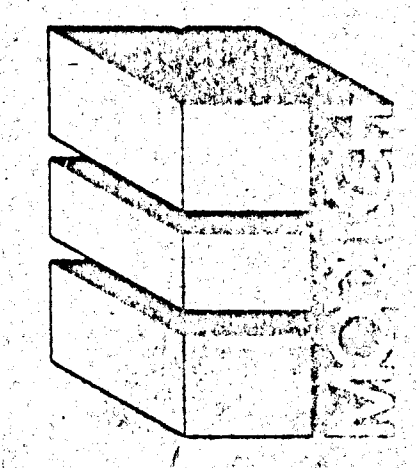


2 SKIRT & FDN. SILL  
SCALE - 3" = 1'-0"

CHANGE ORDER #1

JOY & ASSOCIATES  
Planning  
1001 Colburn  
5200 Colburn, Suite 111  
Perris, CA 92570

PROJECT P.O. 00780, 00893 & 00919, 204 CLASSROOMS  
DATE February 6, 1989  
BY *John M. Joy*  
SHEET NO. 6 OF 6



**MODTECH, INC.**  
195 EAST MCMAN STREET  
PERRIS, CA. 92570-0014

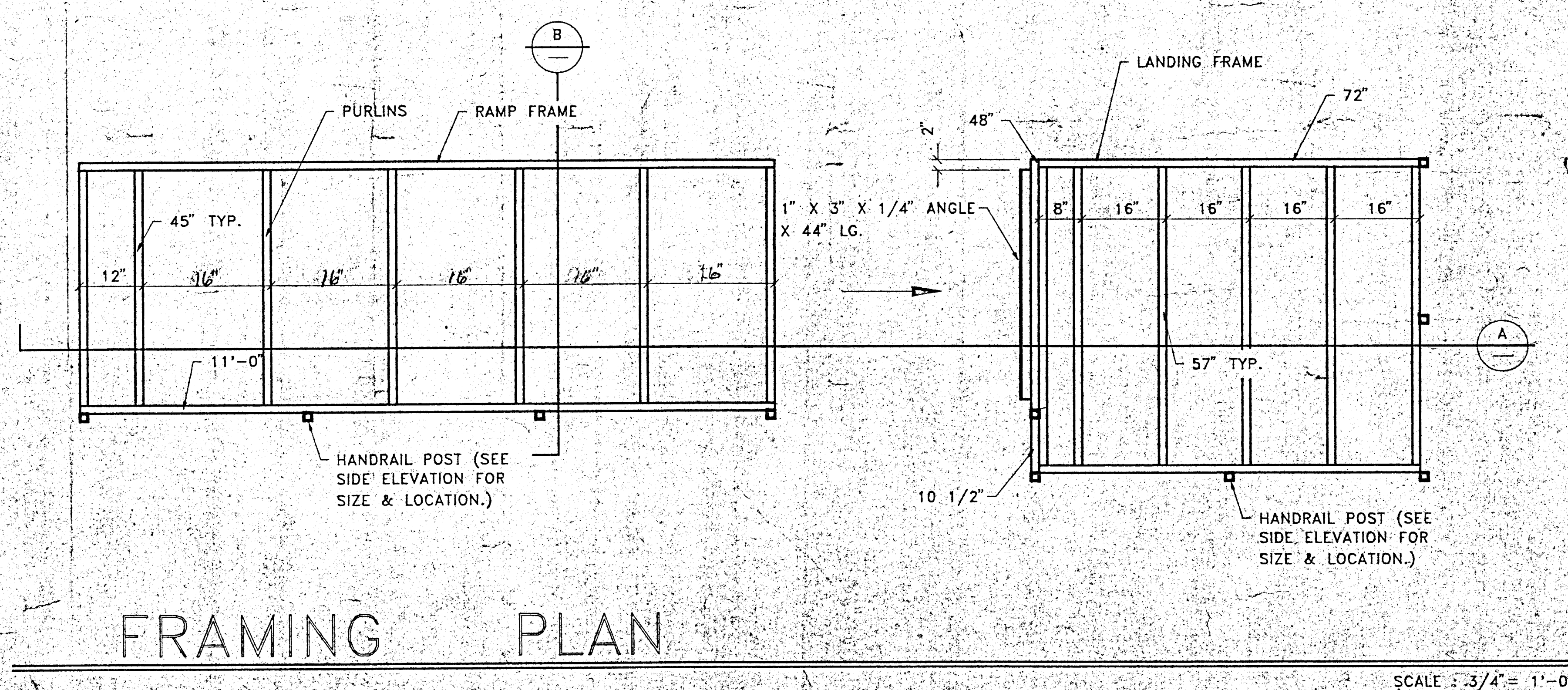
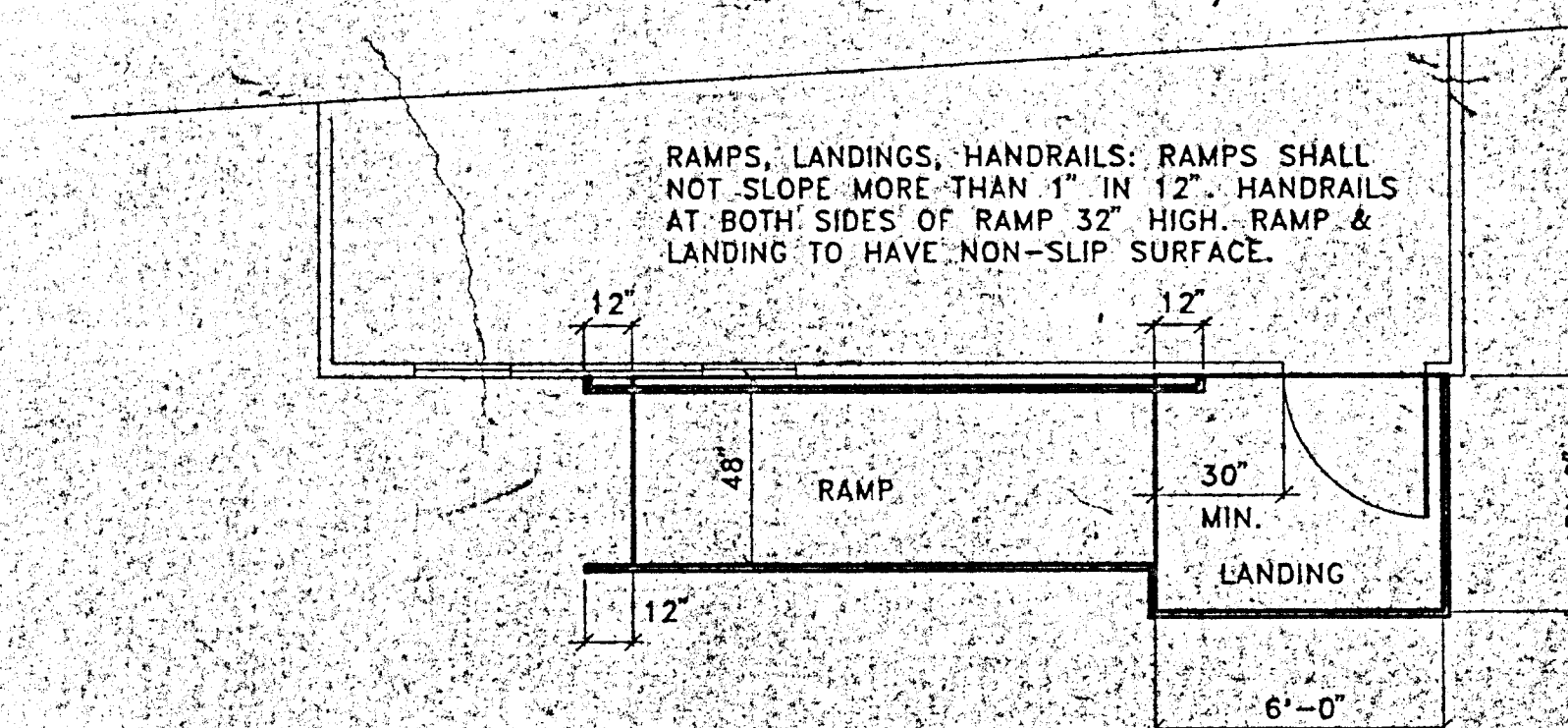
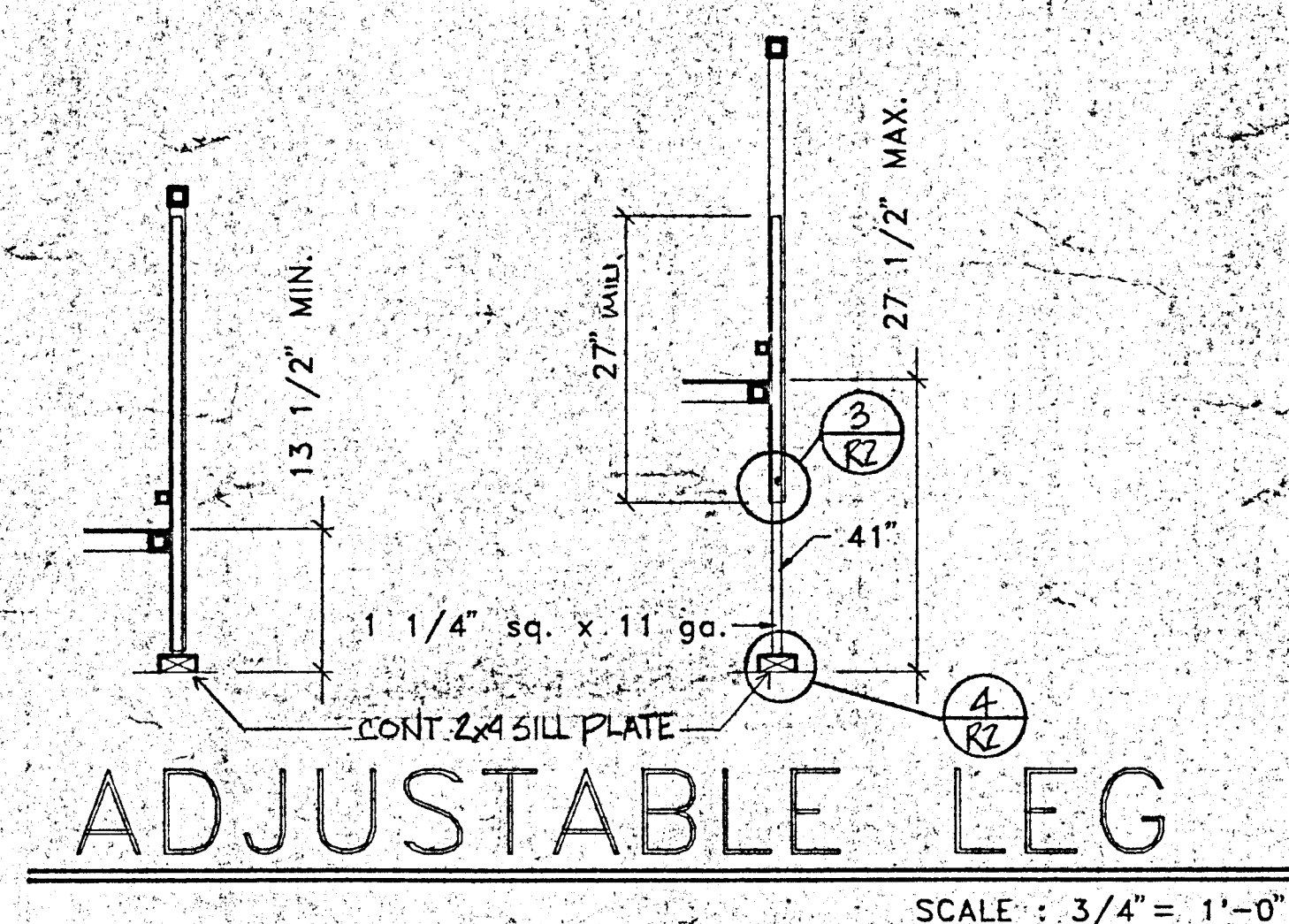
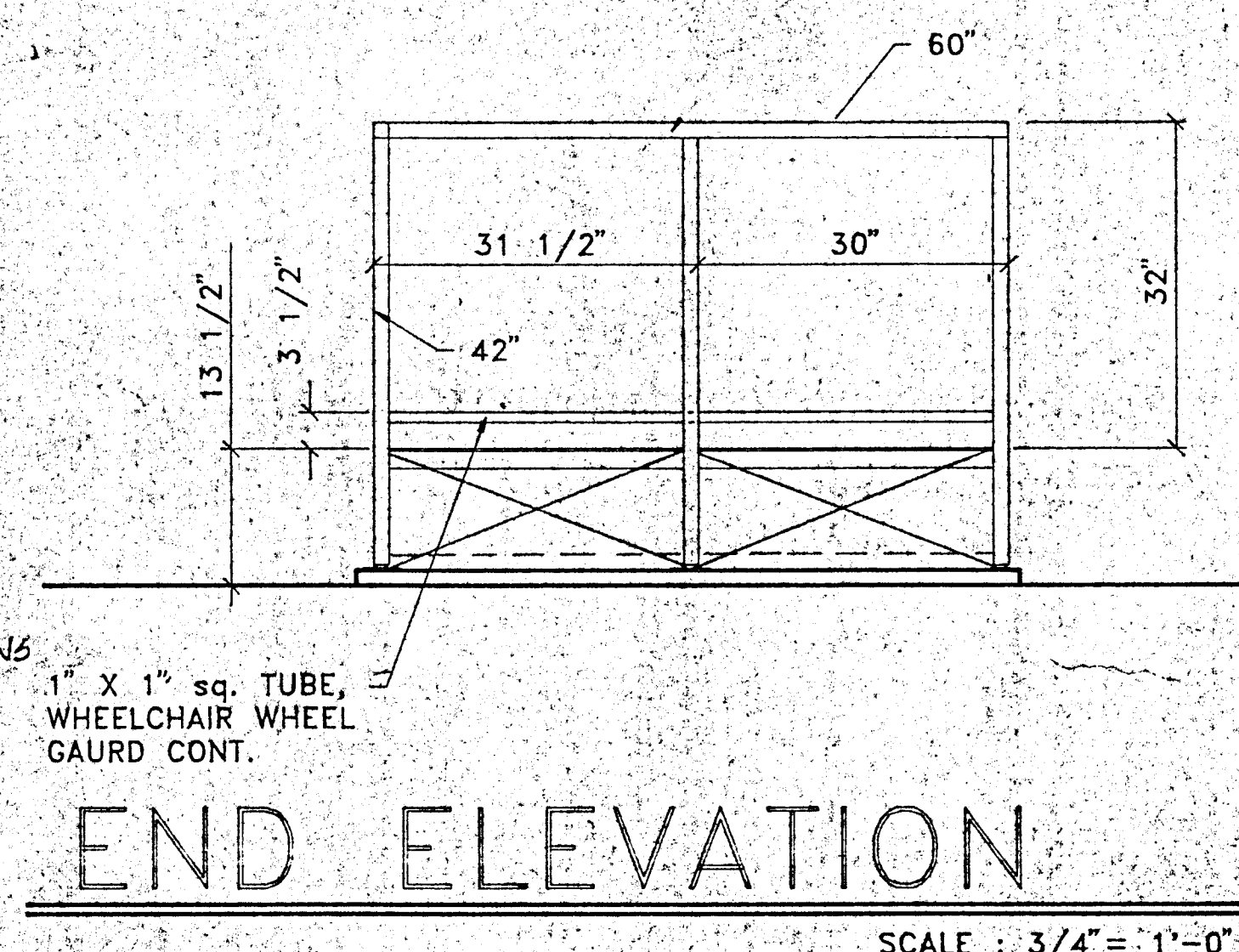
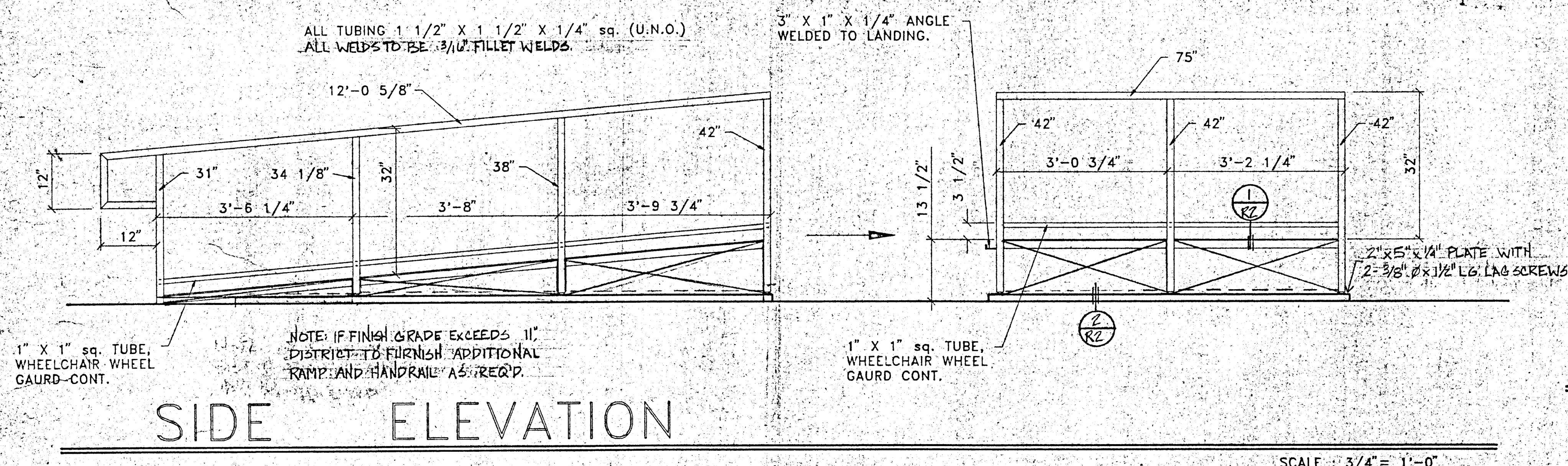
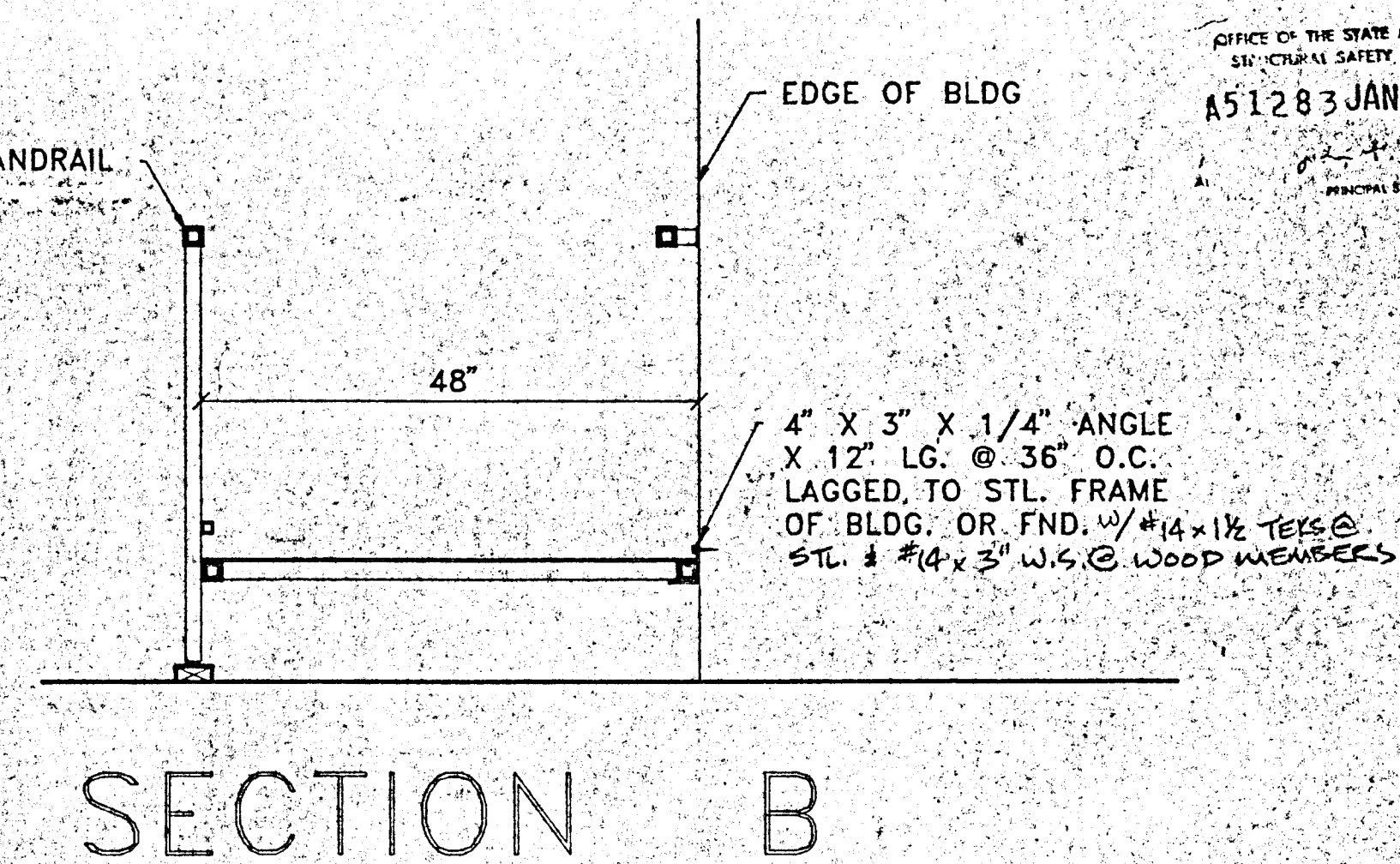
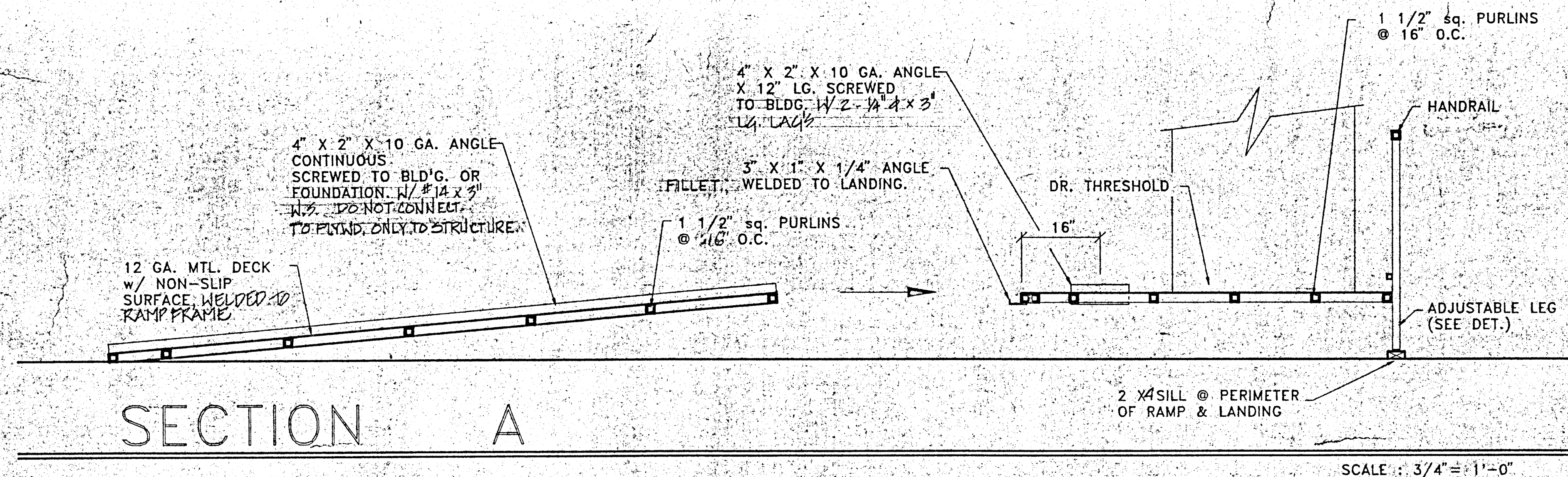
RELOCATABLE CLASSROOM  
P.O. No. 00780, 00893 & 00919  
Bldg. No. 790-000438  
OFFICE of LOCAL ASSISTANCE  
MODTECH JOB No. 1073

BINDING ORDER


P-20

OFFICE OF THE STATE ARCHITECT  
STRUCTURAL SAFETY SECTION  
A51283 FEB 14 1989






OFFICE OF THE STATE ARCHITECT  
STRUCTURAL SAFETY SECTION  
A51283 JAN 13 1989  
J. L. McCourt  
PRINCIPAL STRUCTURAL ENGINEER

P.O.D.	
A.C.E.	
OFFICE OF THE STATE ARCHITECT ADDRESS CONTRACT & SPECIFICATIONS	
51283 JUN 11 '89	
APPLICANT: 222 W. Judd Bldg #2	
FIRE MARSHAL	
<div>APPROVED FIRE AND FLOOD COPY JUN 13 1989 STATE FIRE MARSHAL SOUTH DAKOTA</div>	
<i>Robert J. DeWitt</i>	
P.O.#'S 00780, 00893, 00919	
MODTECH, INC. 100 EAST MORGAN STREET PENNIO, CA. 92370 (714) 943-4014	
	
RELOCATABLE CLASSROOM P.O. No. 00780, 00893 & 00919 Bld No. 790-000438 OFFICE OF LOCAL ASSISTANCE MODTECH JOB No. 1078	
BINDING ORDER 10	
10/14/80	
R-1	

S 00780, 00893, 00919

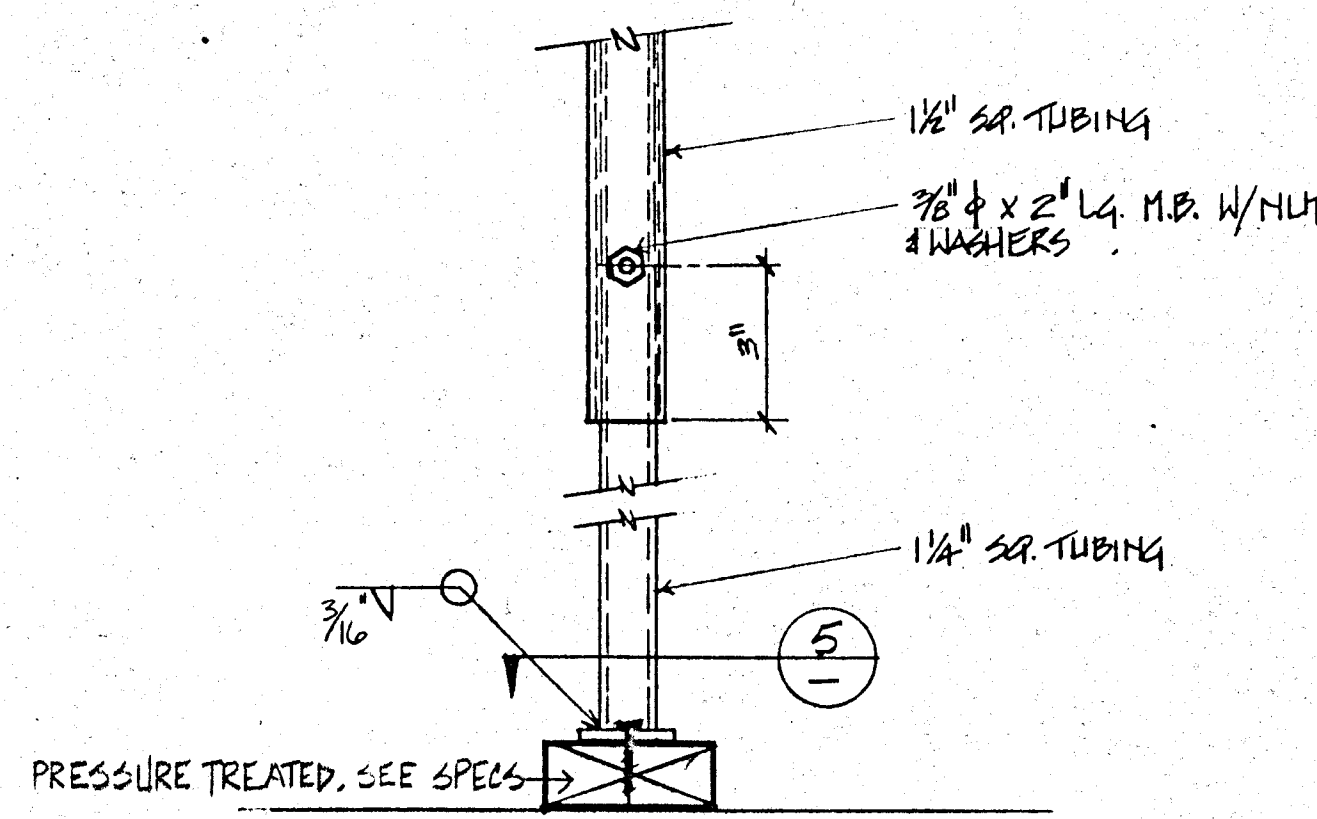
**MODTECH, INC.**  
100 EAST MORGAN STREET  
PENNIO, CA. 92376 (714)943-4014



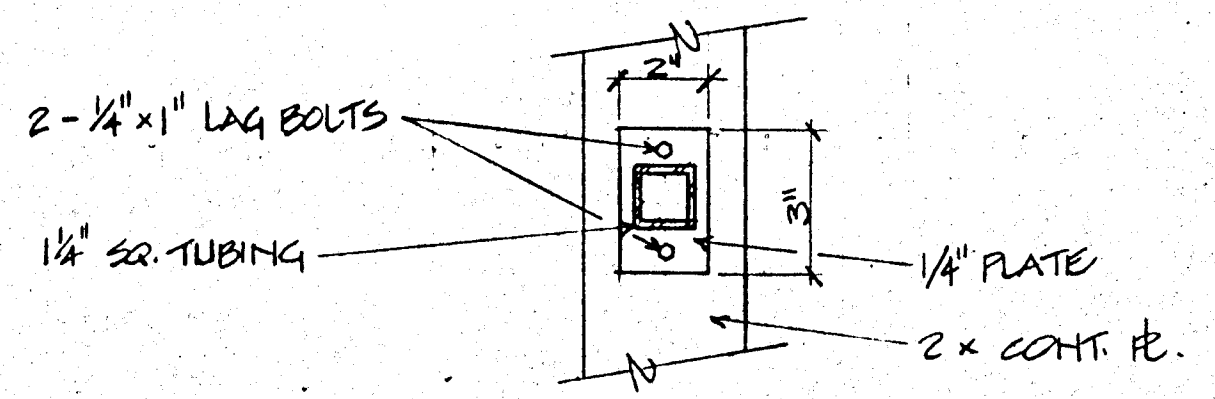
RELOCATABLE CLASSROOM  
P.O. No. 00780, 00893 & 00919  
Bld. No. 790-000438  
OFFICE OF LOCAL ASSISTANCE  
MODTECH, Job No. 1078

BINDING ORDER 10	
10/14/88	R-1

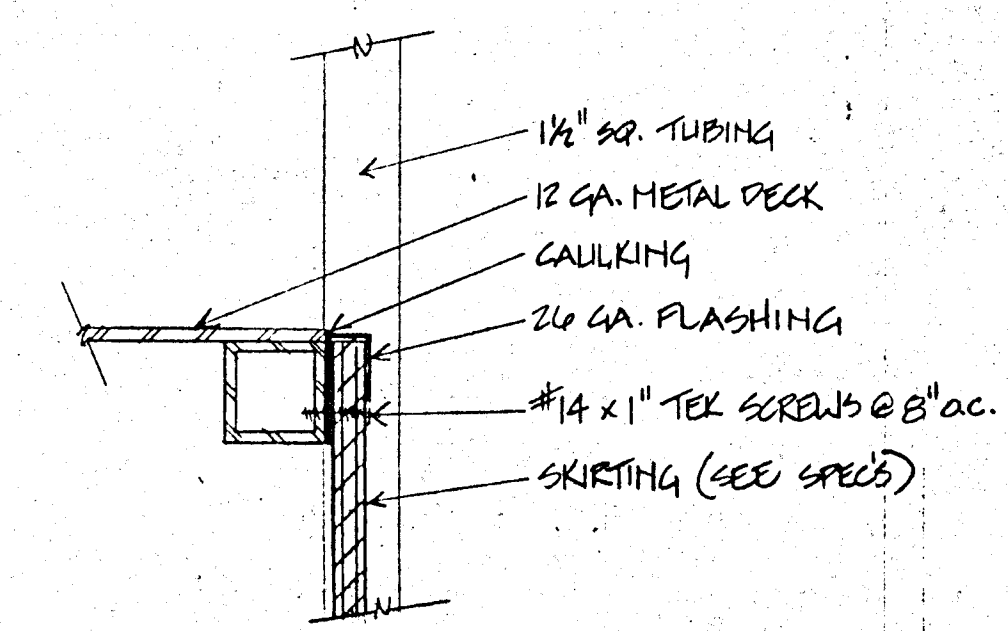




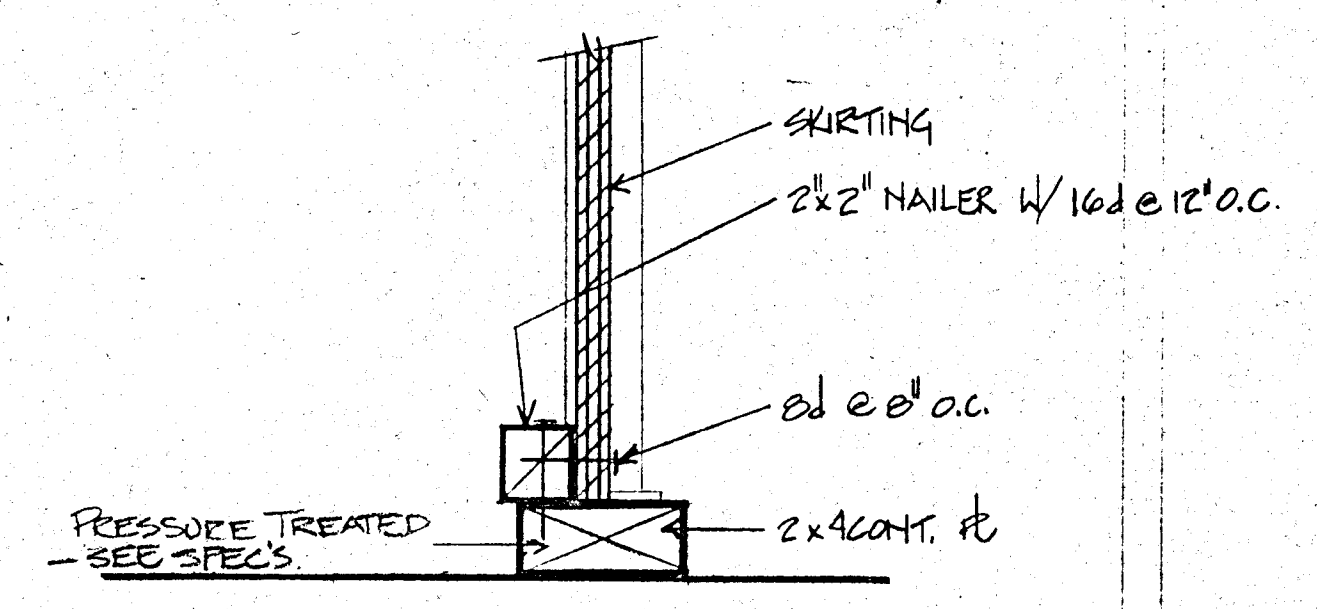
③ ④ ADJUSTABLE LEG  
SCALE - 3" = 1'-0"



⑤ BASE PLATE  
SCALE - 3" = 1'-0"



① SKIRT FLASHING  
SCALE - 3" = 1'-0"



② SKIRT @ FDN. SILL  
SCALE - 3" = 1'-0"

O.S.A.	
OFFICE OF THE STATE ARCHITECT STRUCTURAL SAFETY SECTION A51283 JAN 11 1993	
A.C.S.	
OFFICE OF THE STATE ARCHITECT LOCAL ASSISTANCE SECTION 51283 JAN 11 1993	
FIRE MARSHAL	
FIRE MARSHAL'S OFFICE JAN 13 1993 STATE FIRE MARSHAL S. L. HARRIS	
P.O.#'S 00780, 00893, 00919	
MODTECH, INC. 19.5 EAST MORGAN STREET PERRIS, CA 92370 (951) 993-1011	
RELOCATABLE CLASSROOM P.O. No. 00780, 00893 & 00919 Bid No. 790-000438 OFFICE of LOCAL ASSISTANCE MODTECH, INC. 1078	
BINDING ORDER	
B-2	



JOB # 2961  
PC 275  
RELOCATABLE BUILDING (S)  
FOR  
CAJON VALLEY USD

24' X 40'

SYMBOLS		
TYPE	SYMBOL	DESCRIPTION
DETAIL		DETAIL ON SAME SHEET AS SYMBOL
DETAIL		DETAIL NUMBER (1) ON SHEET NUMBER (2)
NOTE		NOTE NO 1 ON SAME SHEET AS SYMBOL
NOTE		NOTE NO 4 ON SHEET NUMBER (5)
WALL PANEL		WALL PANEL TYPE "A" ON SHEET (1)
SECTION		SECTION "A" ON SHEET (2)
REV		REVISION CHANGE IN DWG NO (1) FIRST REVISION
REV		HIGHLIGHTS CHANGED AREA
REF		DOOR REFERENCE
REF		WINDOW REFERENCE
REF		SEE STRUC. DWG
REF		SEE MECH. DWG
REF		SEE ELEC. DWG
REF		SEE PLUM. DWG

SPECIFICATIONS SUBJECT TO CHANGE DUE TO PRODUCT IMPROVEMENT

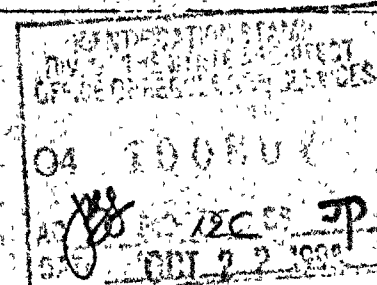
APPLICABLE CODES - NEW CONSTRUCTION

1994 UBC AND 1995 CALIFORNIA AMENDMENTS (95 CALIFORNIA BUILDING CODE - PART 2, TITLE 24, CCR)  
1995 NEC AND 1995 CALIFORNIA AMENDMENTS (95 CALIFORNIA ELECTRICAL CODE - PART 3, TITLE 24, CCR)  
1994 UMC AND 1995 CALIFORNIA AMENDMENTS (95 CALIFORNIA MECHANICAL CODE - PART 4, TITLE 24, CCR)  
1994 UPC AND 1995 CALIFORNIA AMENDMENTS (95 CALIFORNIA PLUMBING CODE - PART 5, TITLE 24, CCR)  
1994 UNIFORM FIRE CODE WITH STATE AMENDMENTS (CALIFORNIA FIRE CODE - PART 9, TITLE 24, CCR)  
1994 BUILDING STANDARDS CODE (95 STATE REFERENCED STANDARDS CODE - PART 12, TITLE 24, CCR)  
TITLE 19, C.C.R. PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS

BUILDING DATA	
24' x 40' BLDG'S	
OCCUPANCY	E-2
TYPE OF CONSTRUCTION	V-N
WIND LOAD	70 MPH EXP "C"
FLOOR LIVE LOAD	50 PSF (RESIDENTIAL)
ROOF LIVE LOAD	20 PSF, REDUCED FOR AREA
BUILDING AREA	960 SQ.FT.
STRUCTURAL DESIGN	RIGID FRAME

\*AS ALTERNATE FOR ALL SHOT PIN ATTACHMENTS, USE #10 ST.N.S. AT THE SAME SPACING\*

SHEET INDEX	
ARCHITECTURAL	A0 - COVER SHEET
	A10 - FLOOR PLAN (24X40)
	A20A - ROOF PLAN (24X40) DUAL PITCH
	A30A - EXTERIOR ELEVATION (24X40) DUAL PITCH
	A40 - INTERIOR ELEVATIONS (24X40)
	A50 - FINISH SCHEDULE
	A60 - ARCHITECTURAL DETAILS WOOD STUDS
	A61 - ARCHITECTURAL DETAILS WOOD STUDS
	A70 - REFLECTED CEILING PLAN (24X40)
	A72 - REFLECTED CEILING DETAILS
STRUCTURAL	F01 - FOUNDATION PLAN (24X40) 50# WOOD
	F30 - FOUNDATION DETAILS WOOD
	S10 - FLOOR FRAMING PLAN (TYP 50 PSF)
	S12 - FLOOR FRAMING DETAILS (TYPICAL)
	S20A - ROOF FRAMING PLAN (TYP DUAL PITCH)
	S21 - ROOF FRAMING DETAILS (TYPICAL)
	S30A - STRUCTURAL ELEVATIONS AND DETAILS (DUAL PITCH)
	S40 - WALL FRAMING (WOOD)
	S50 - FRAMING DETAILS (WOOD)
	S51 - FRAMING DETAILS (WOOD)
MECHANICAL	M10 - HVAC (HVAC) PLAN (24X40)
ELECTRICAL	E10 - ELECTRICAL PLAN (24X40)
RAMP	R10 - RAMP PLAN R20 - RAMP DETAILS



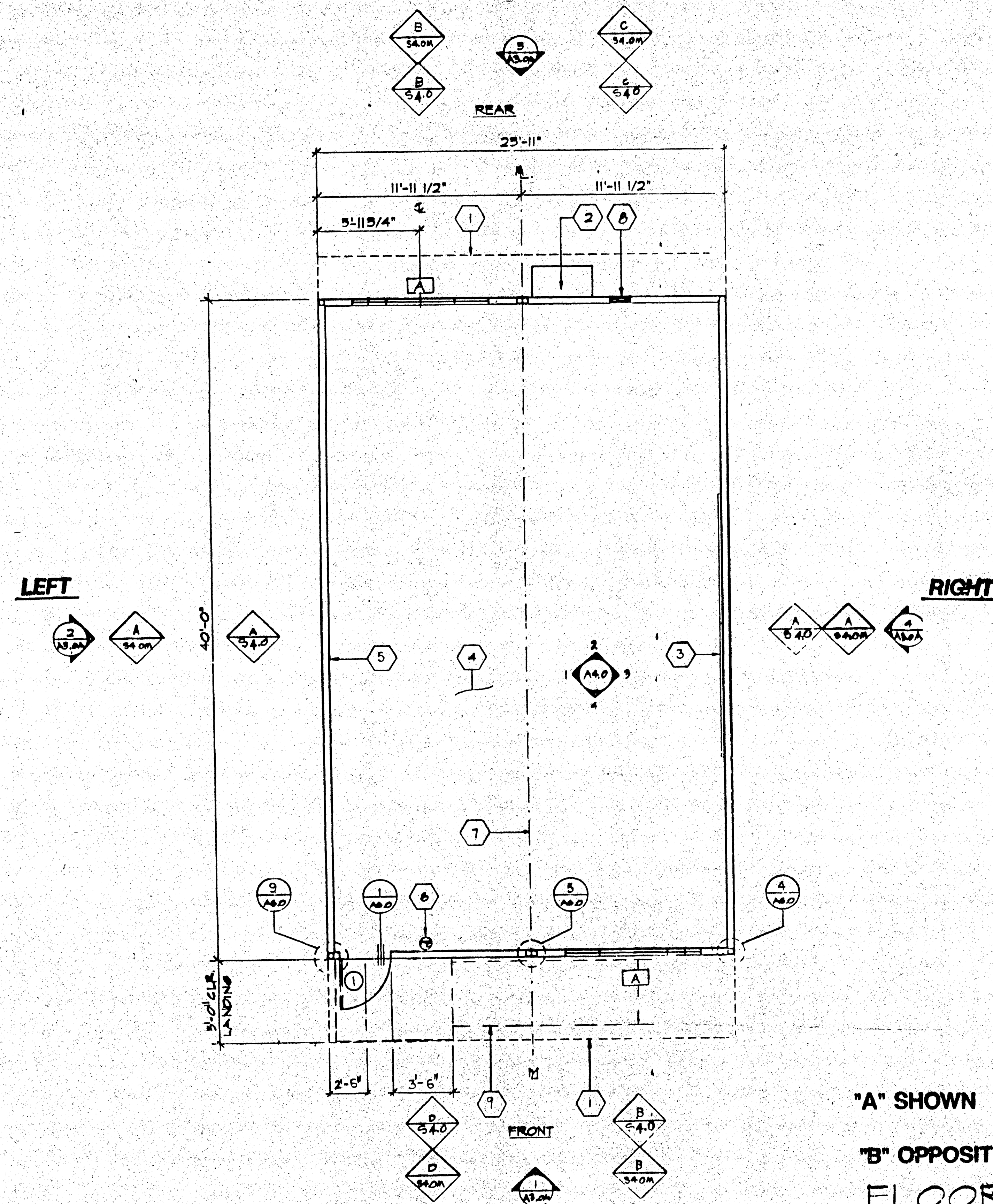
JOB # 2961  
CAJON VALLEY USD

DRAWN BY  
DATE  
CHECKED BY  
DATE

TITLE SHEET A0

JOB # 2961 CAJON VALLEY USD 24X40





"A" SHOWN  
"B" OPPOSITE  
FLOOR PLAN

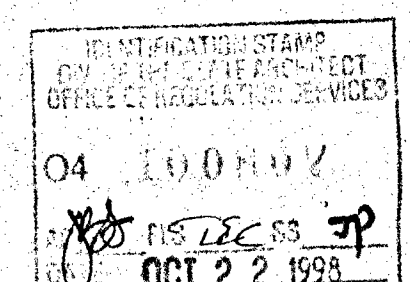
SCALE 1/4"=1'-0"

## KEY NOTES

- 1 ROOF OVERHANG
- 2 HVAC UNIT - [HV]
- 3 2- 8'X4' MARKER BOARDS (SEE SPEC'S FOR TYPE)
- 4 FINISH FLOORING (SEE FINISH SCHED.)
- 5 TYPICAL INTERIOR FINISH (SEE FINISH SCHED.)
- 6 FIRE EXTINGUISHER - 5 LBS DRY CHEMICAL WITH 2A-10BC UL. RATING ON WALL MTD BRACKET. HANDLE AT 48" A.F.F.
- 7 MODLINE (18" TYPICAL)
- 8 ELECTRICAL PANEL [EL]
- 9 RAMP/LANDING (SEE R1.0 & R2.0)

## NOTES

- 1 METAL TAG ON ALL MODULES. MECHANICALLY ATTACHED TO REAR EXTERIOR OF BUILDING SHOWING DSA APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER, ROOF & FLOOR DESIGN LIVELOAD AND DESIGN WIND LOAD.



ARCHITECT

ELECTRICAL

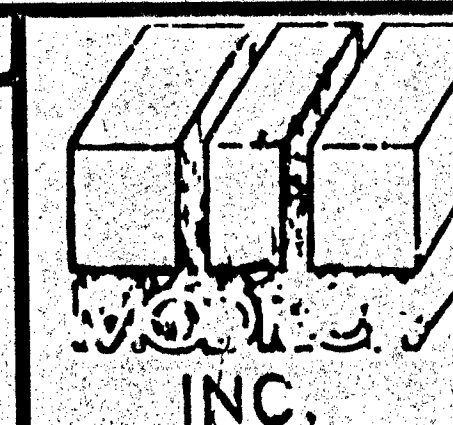
STRUCTURAL

MECHANICAL

FIRE MARSHAL

ACCESS COMPLIANCE

STRUCTURAL SAFETY



2961

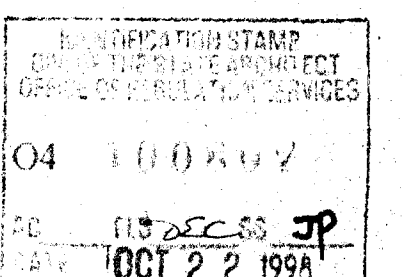
FLOOR PLAN

A1.0

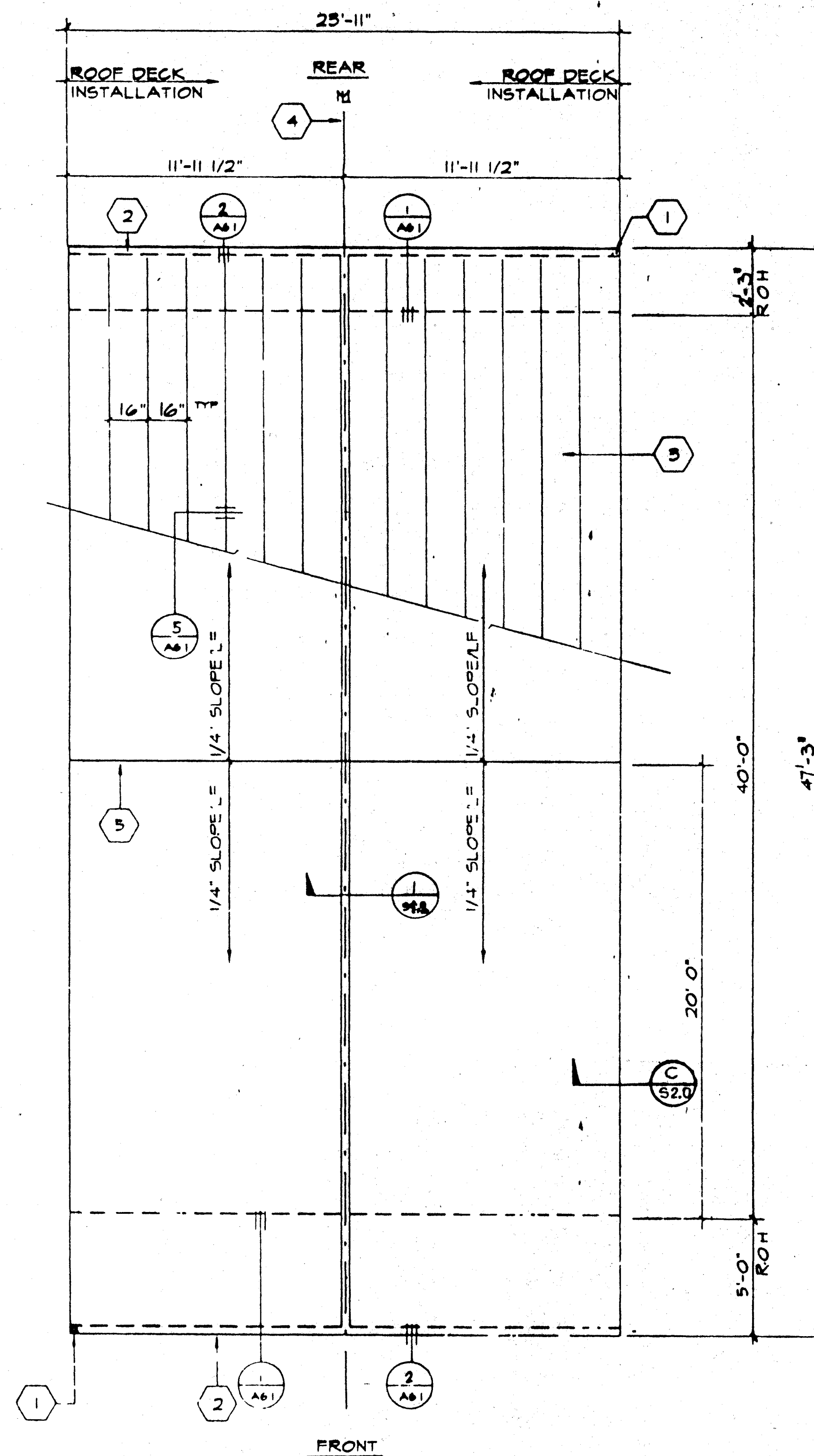


# KEY NOTES

- 1 DOWNSPOUT (TYE FOR 4"X2"X24 GA
- 2 CONTINUOUS GUTTER 26 GA
- 3 22 GA MIN INTERLOCKING ROOF PANELS (TYP)
- 4 MODLINE
- 5 RIDGELINE



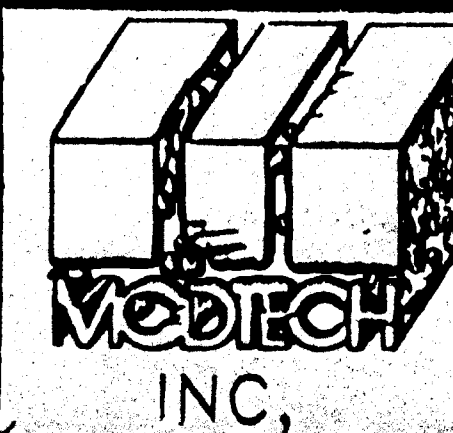
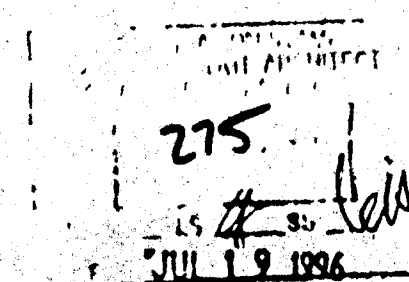
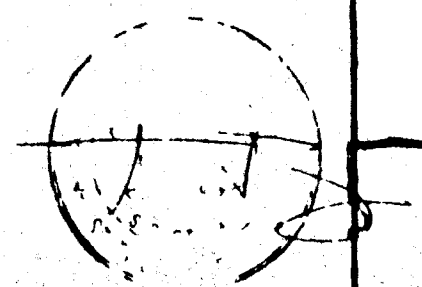
NOTE:  
BUILDINGS HAVING GROUP 5 OCCUPANCIES  
SHALL HAVE ROOF COVERINGS AS SPECIFIED  
IN TABLE 15A, C.B.C. CLASS A



## ROOF PLAN - DUAL PITCH

SCALE 1/4"=1'-0"

ARCHITECT ELECTRICAL STRUCTURAL MECHANICAL FIRE MARSHAL ACCESS COMPLIANCE STRUCTURAL SAFETY

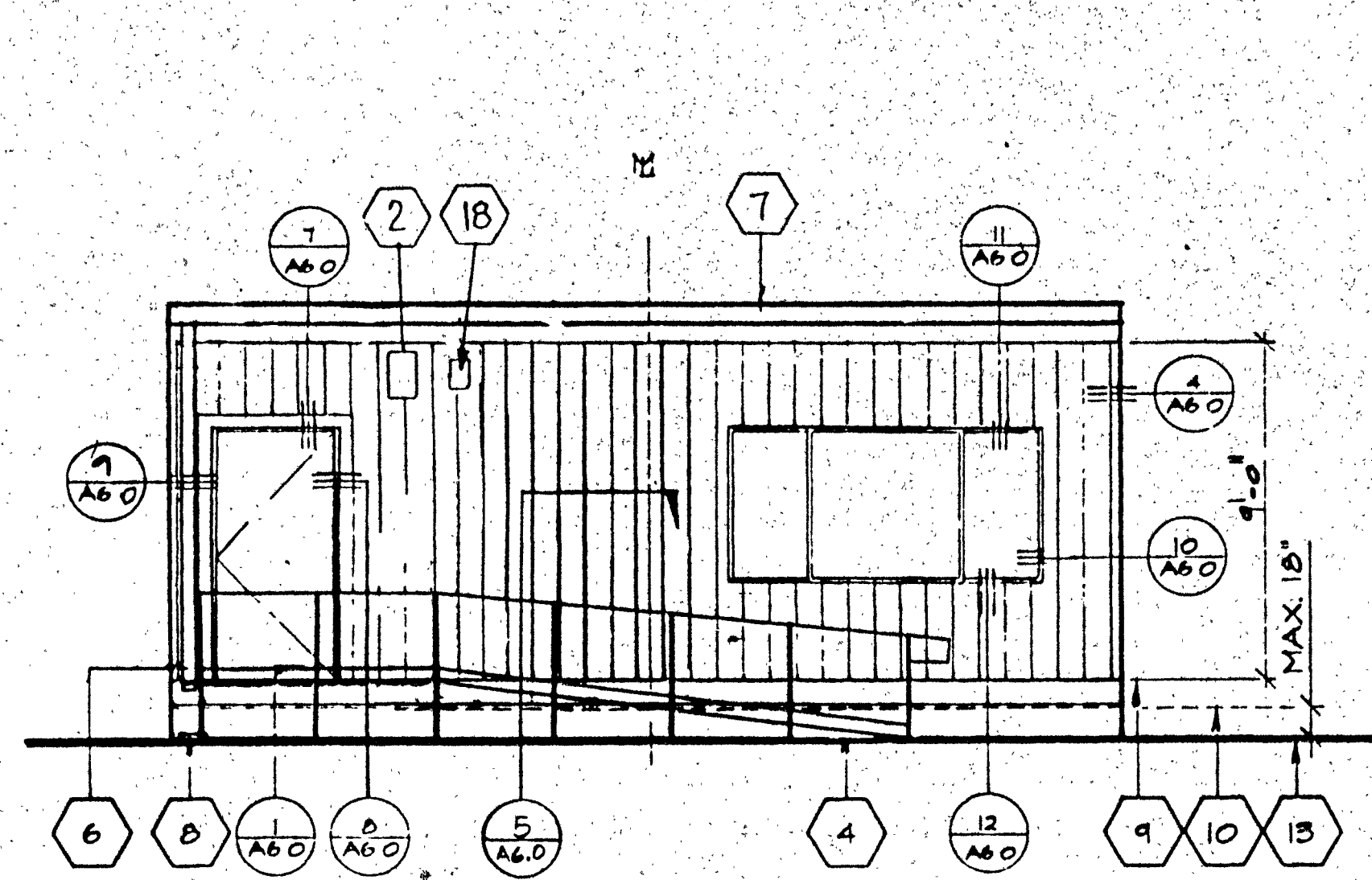


296.1

ROOF PLAN

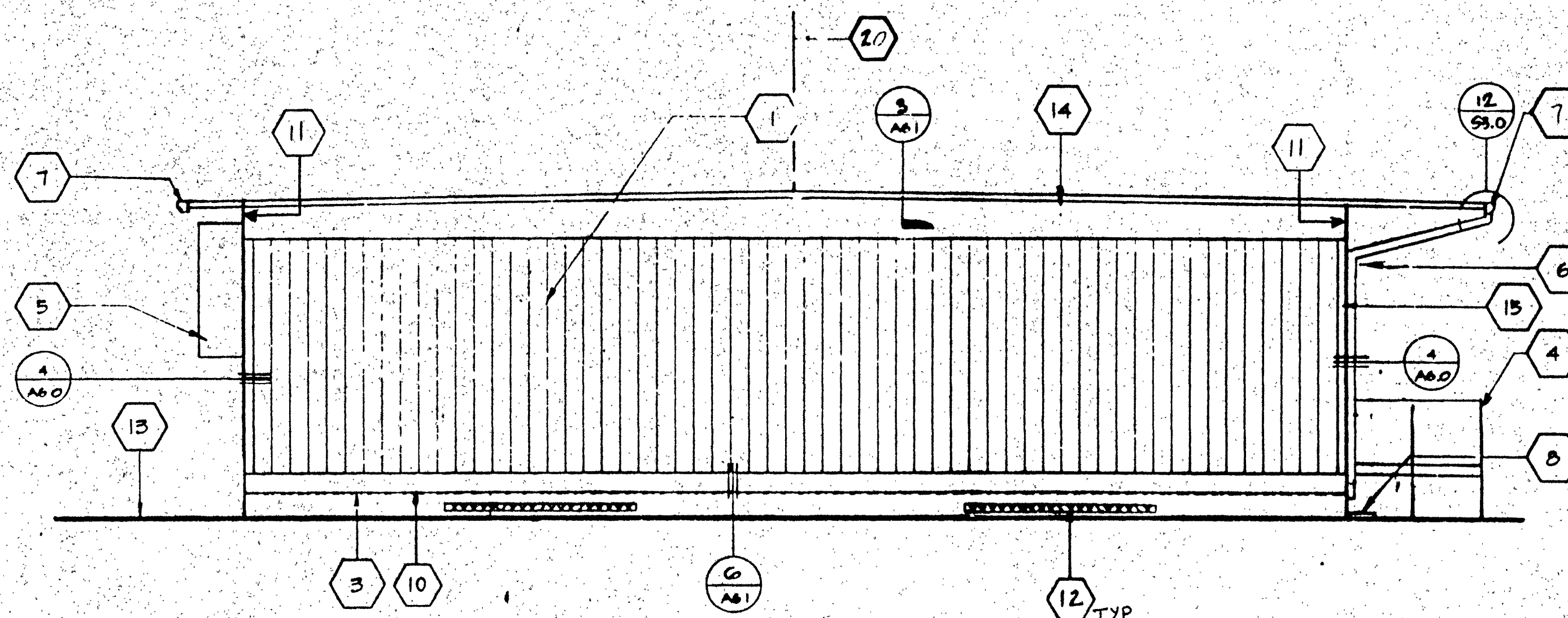
DRAWN BY  
DATE  
CHECKED BY  
DATE

A2.0A



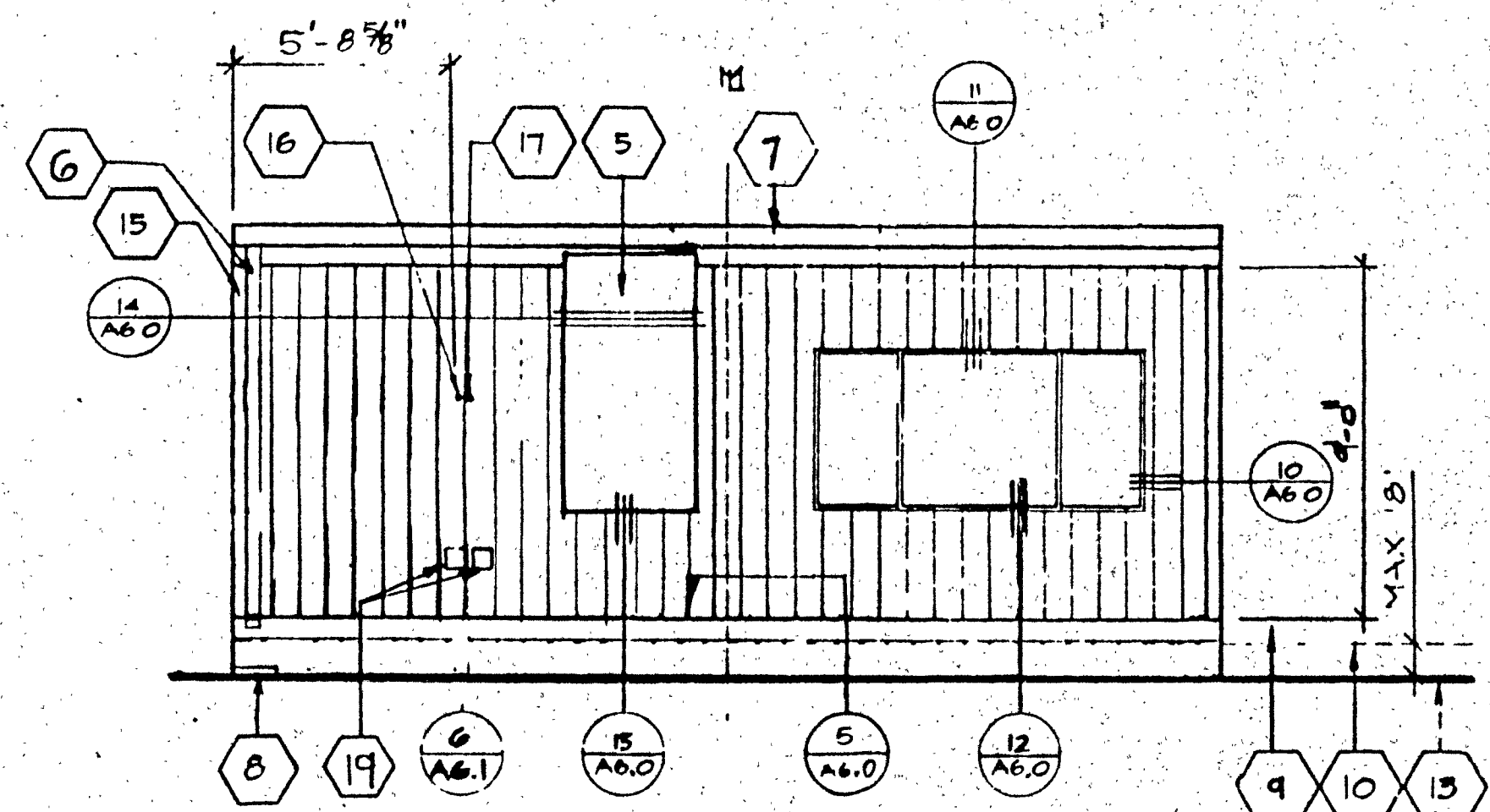
① FRONT ELEVATION

SCALE 1/4"=1'-0"



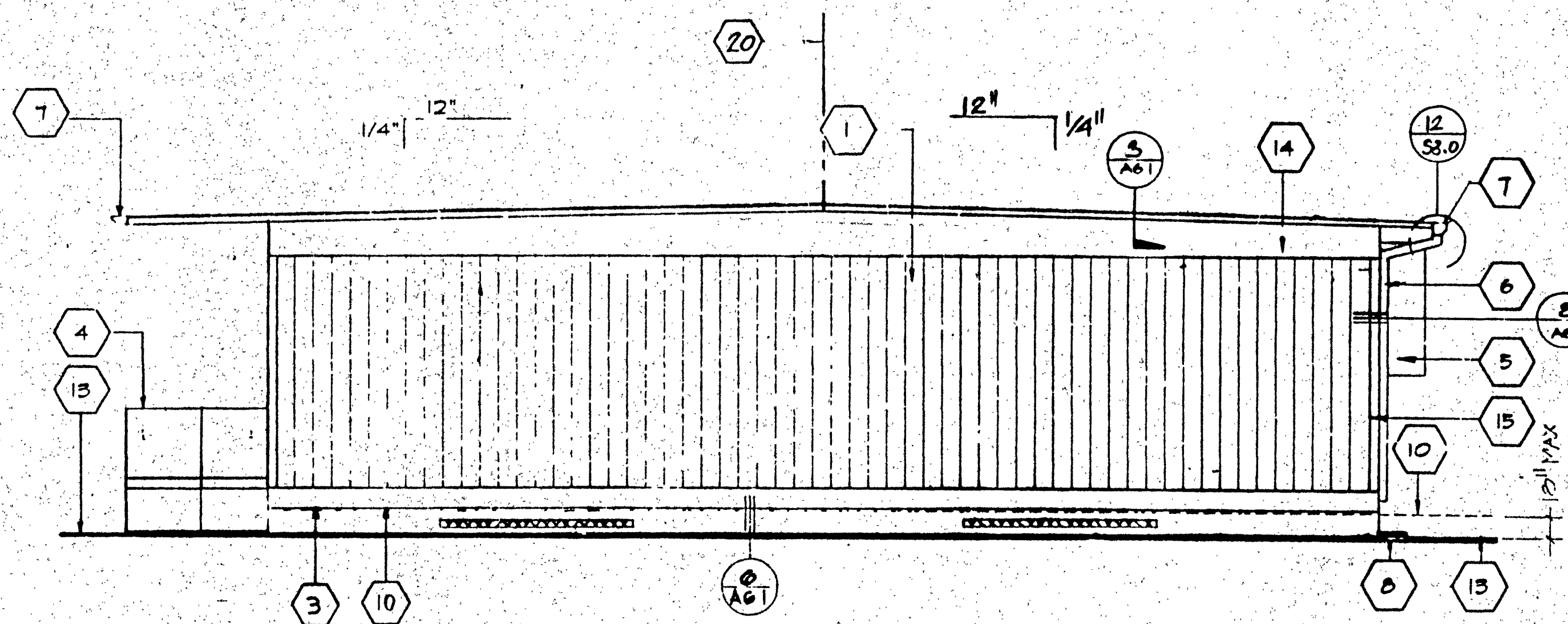
② SIDE ELEVATION (LEFT)

SCALE 1/4"=1'-0"



③ REAR ELEVATION

SCALE 1/4"=1'-0"



④ SIDE ELEVATION (RIGHT)

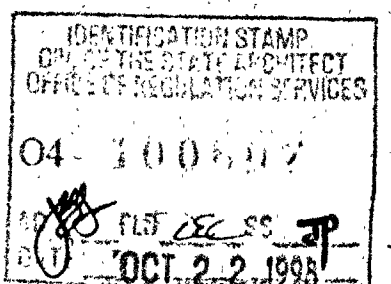
SCALE 1/4"=1'-0"

"A" SHOWN

"B" OPPOSITE

# KEY NOTES

- 1 TYPICAL EXTERIOR SIDING (SEE FINISH SCHED)
- 2 EXTERIOR LIGHT FIXTURE [EL]
- 3 TOP OF SKIRTING
- 4 RAMP AND LANDING SEE SHIT E-1.0
- 5 HVAC UNIT [HV]
- 6 DOWNSPOUT (TYPE 2) FASTEN TO BLOC.D.F. 3 PLACES (SEE PLYG.1)
- 7 CONTINUOUS GUTTER WITH DOWNSPOUT (LOCATION OF DOWNSPOUT SHOWN ON ROOF PLAN A2.0)
- 8 SPLASH BLOCK (OR OTHERS)
- 9 FINISH FLOOR LINE
- 10 BOTTOM FLANGE OF FLOOR BEAM
- 11 ROOF HEADER
- 12 VENT SEE FOUNDATION PLAN
- 13 FINISH GRADE
- 14 ROOF BEAM [ST]
- 15 COLUMN [ST]
- 16 ELECTRICAL STUB-OUT [EL]
- 17 GROUND STUB-OUT [EL]
- 18 J BOX FOR F.A. HORN [EL]
- 19 GUTTER BOX [EL]
- 20 RIDGE



SCALE 1/4"=1'-0"

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY	DATE	CHECKED BY	DATE
							2961		
<div> <div>PC-275</div> <div>MODERN INC.</div> </div>							24'X40' DUAL PITCH		
							EXTERIOR ELEVATIONS		
							A3.0A		



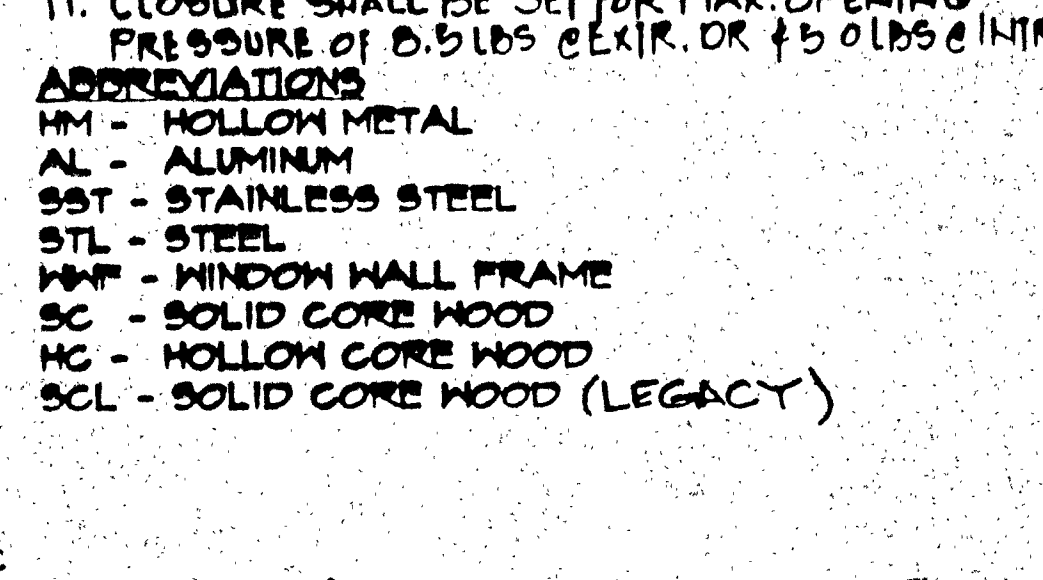




## ROOM FINISH SCHEDULE

**NOTES**

DOOR SPECS EXTERIOR  
FRAME SPECS SILE SPECS

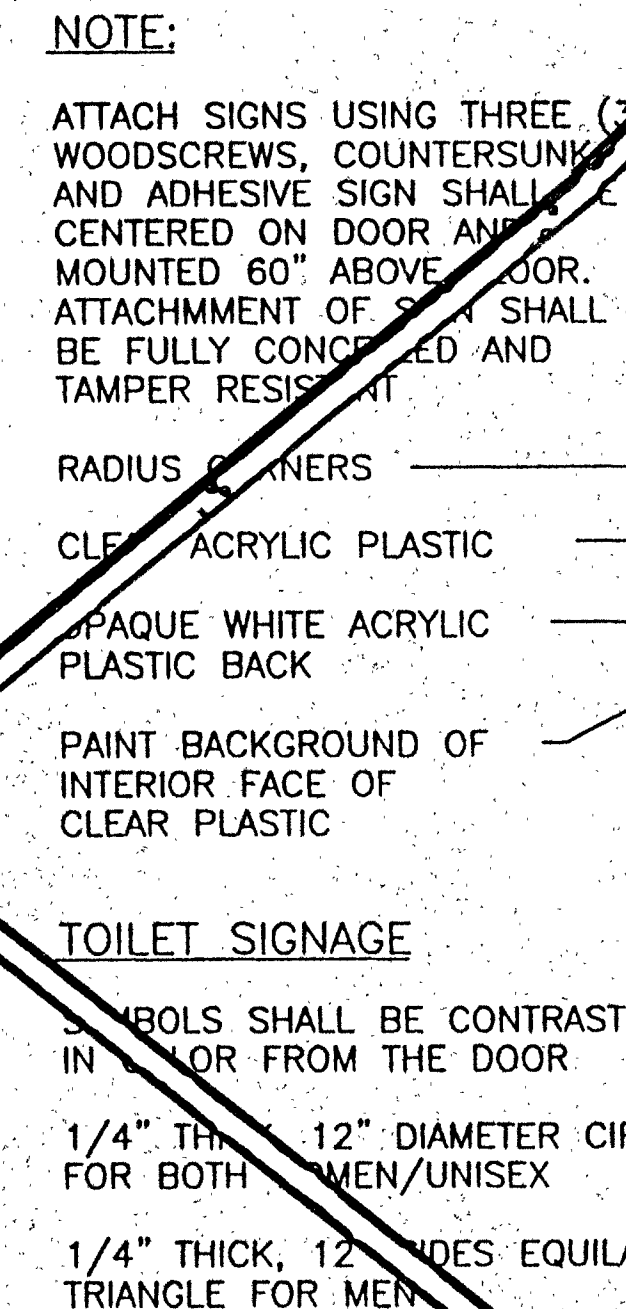
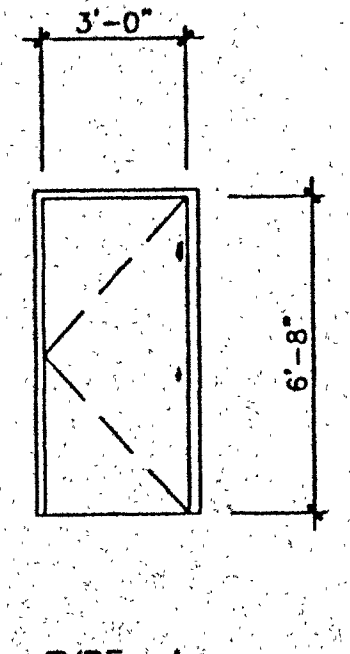


# WINDOW SCHEDULE

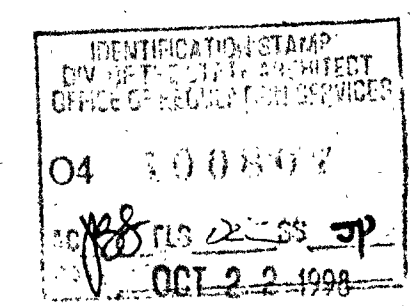
ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT

ACCESSIBILITY SIGNAGE (AS REQUIRED - BY MODTECH)

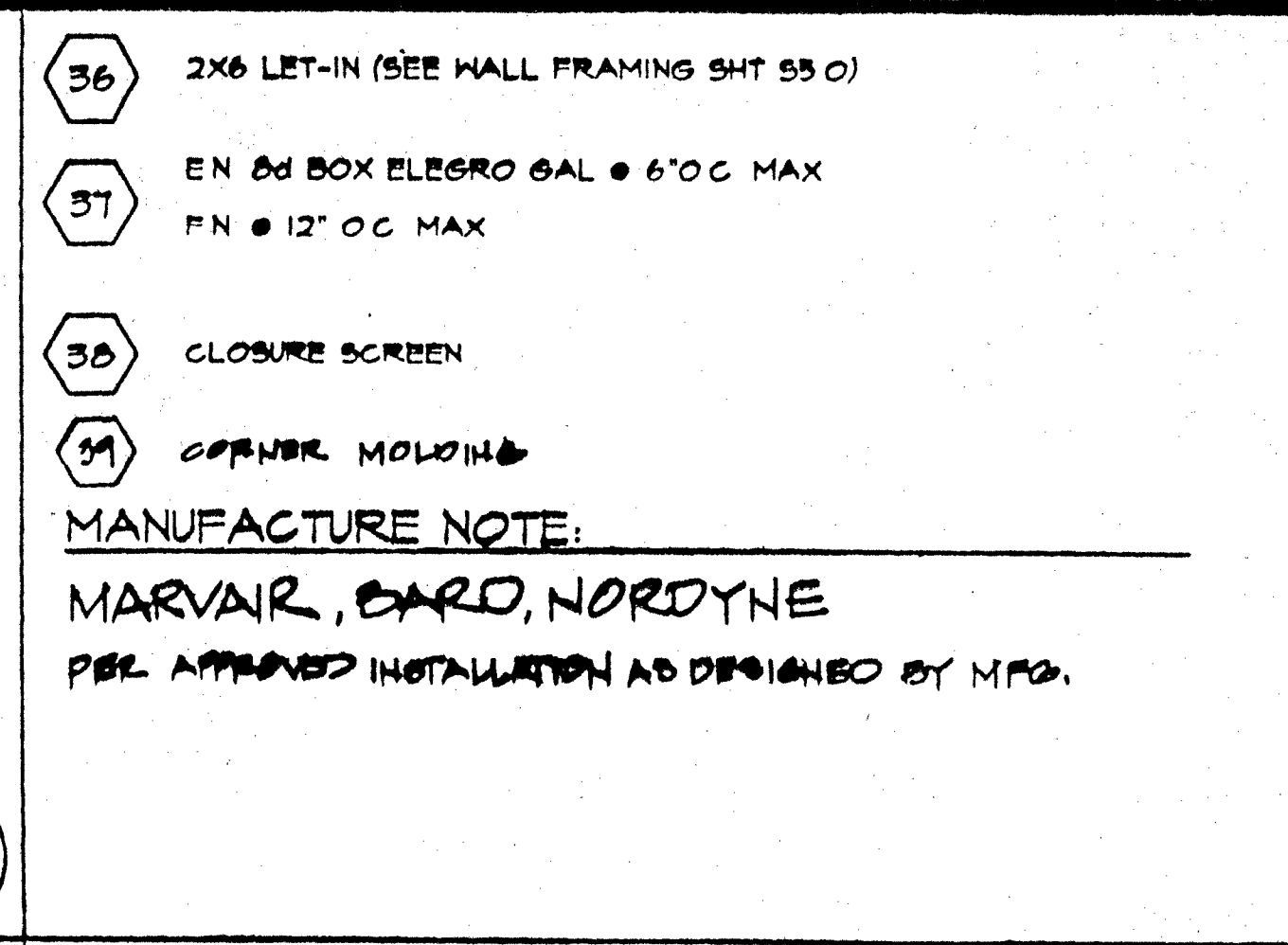
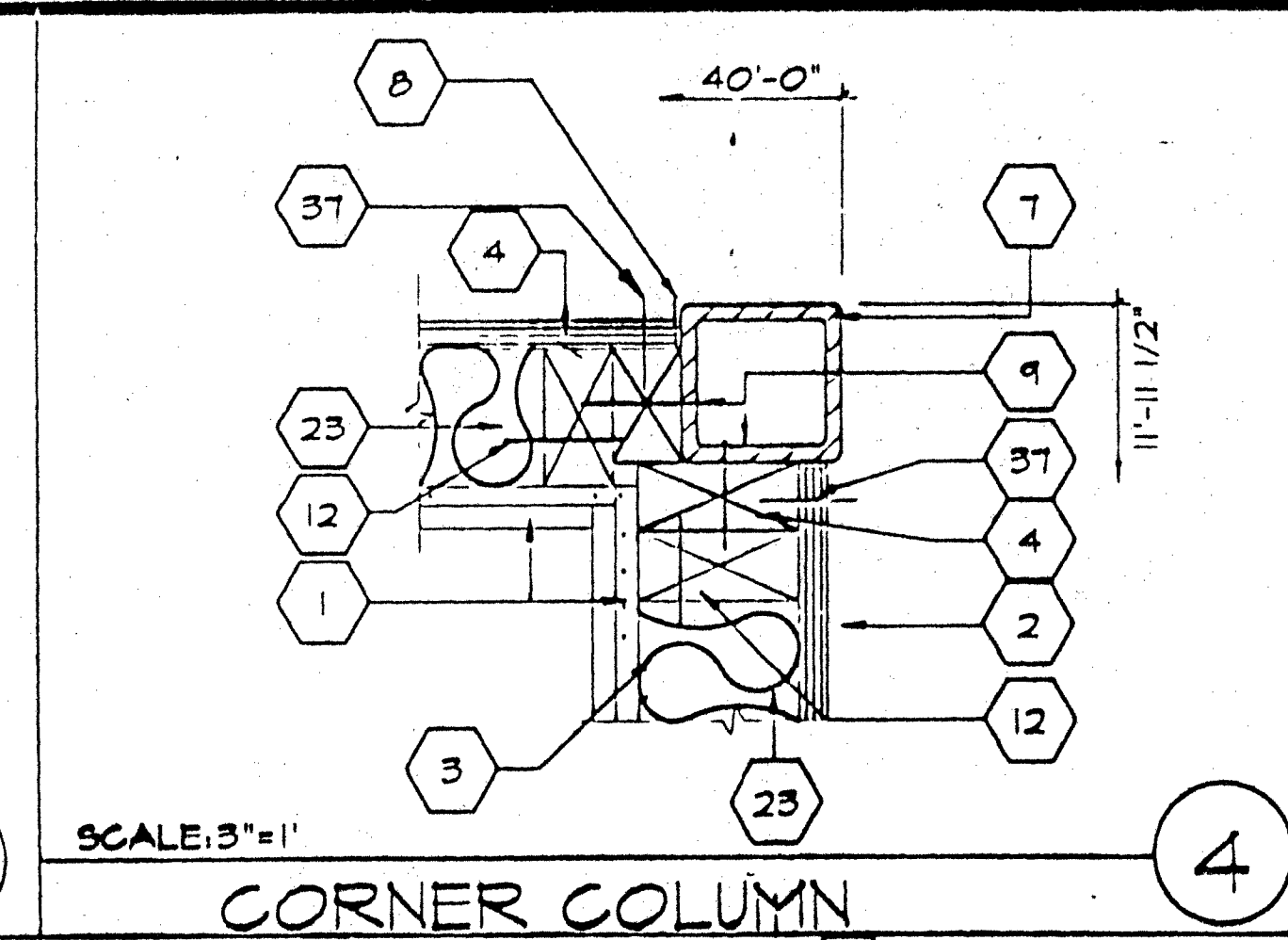
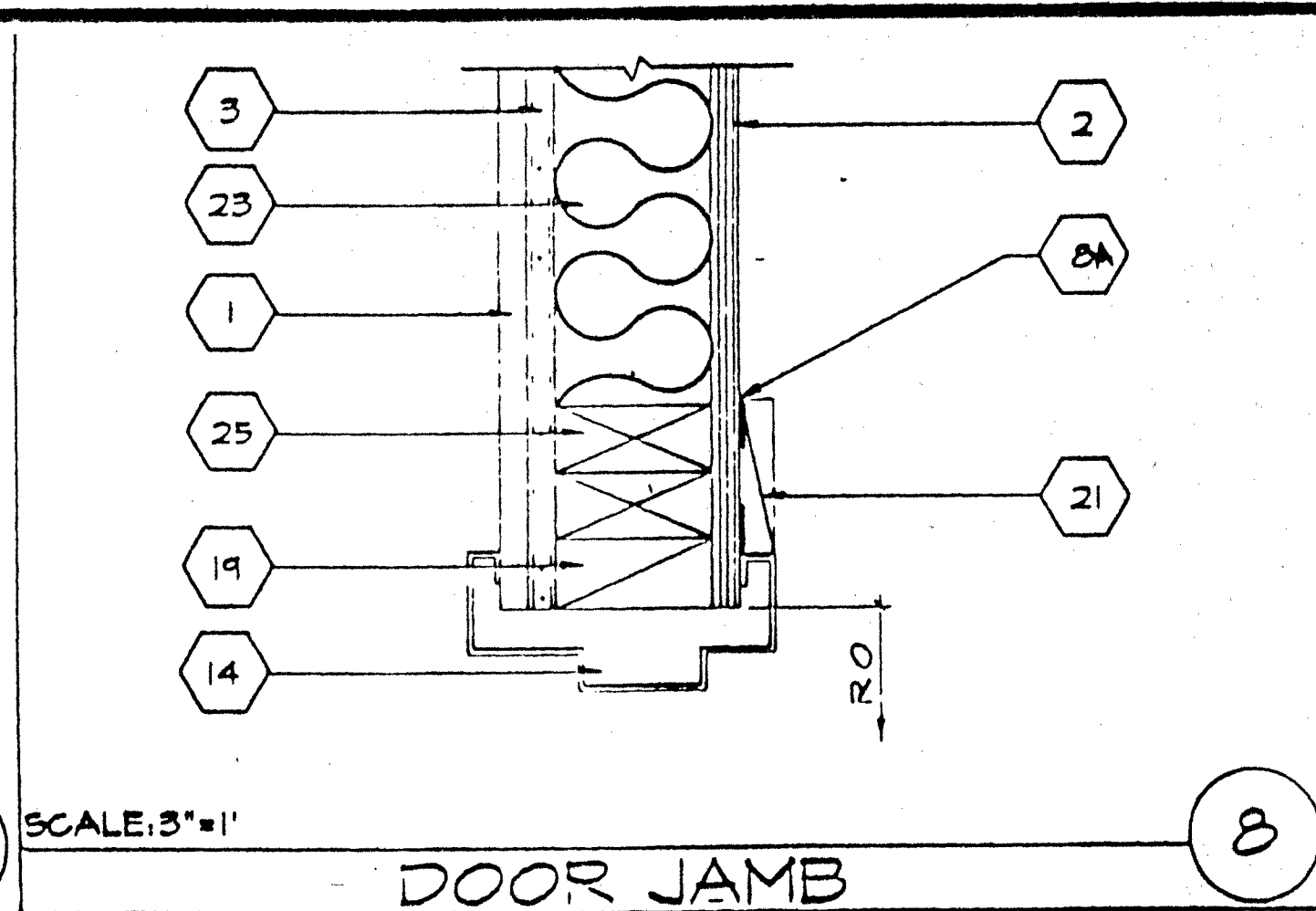
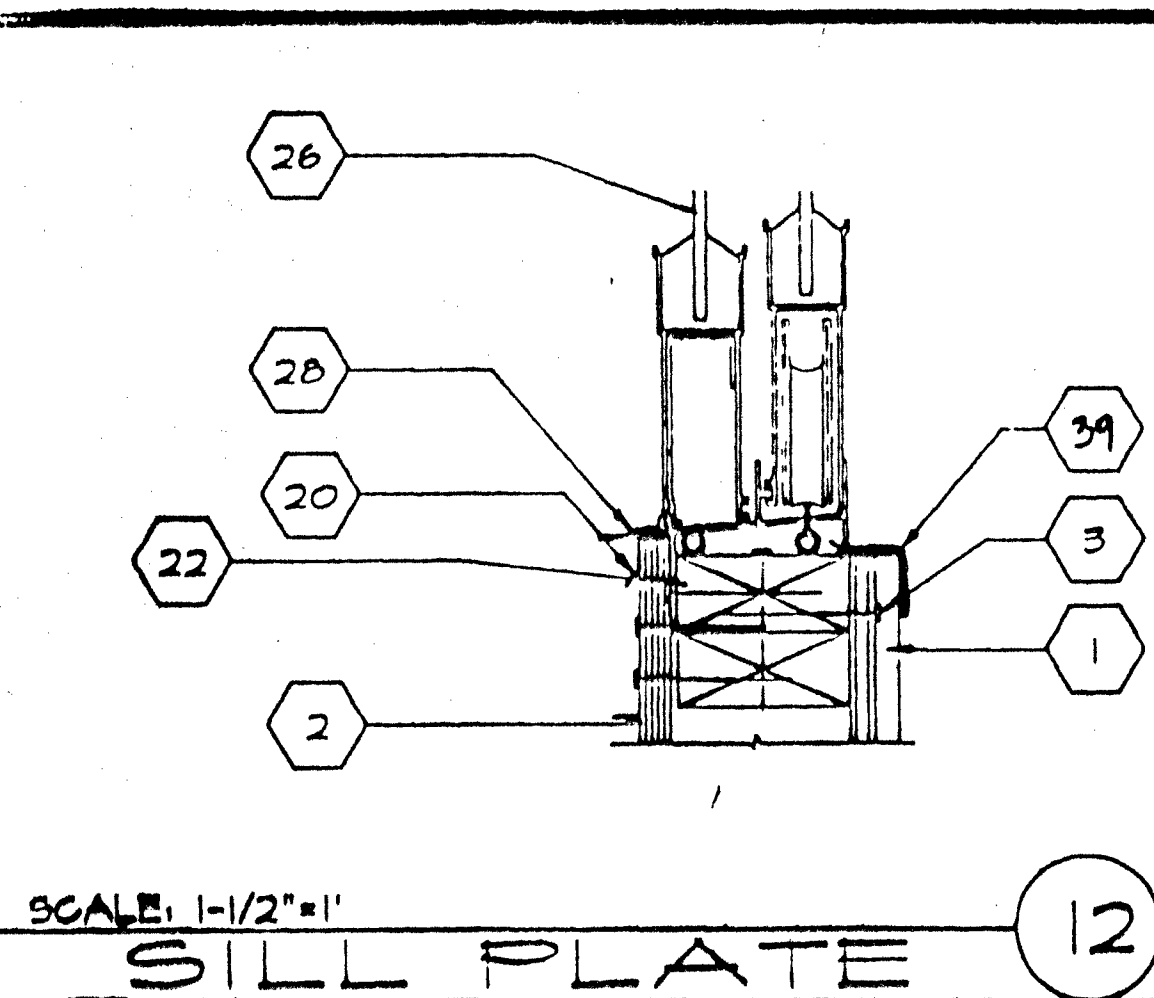
- ## DOOR TYPES



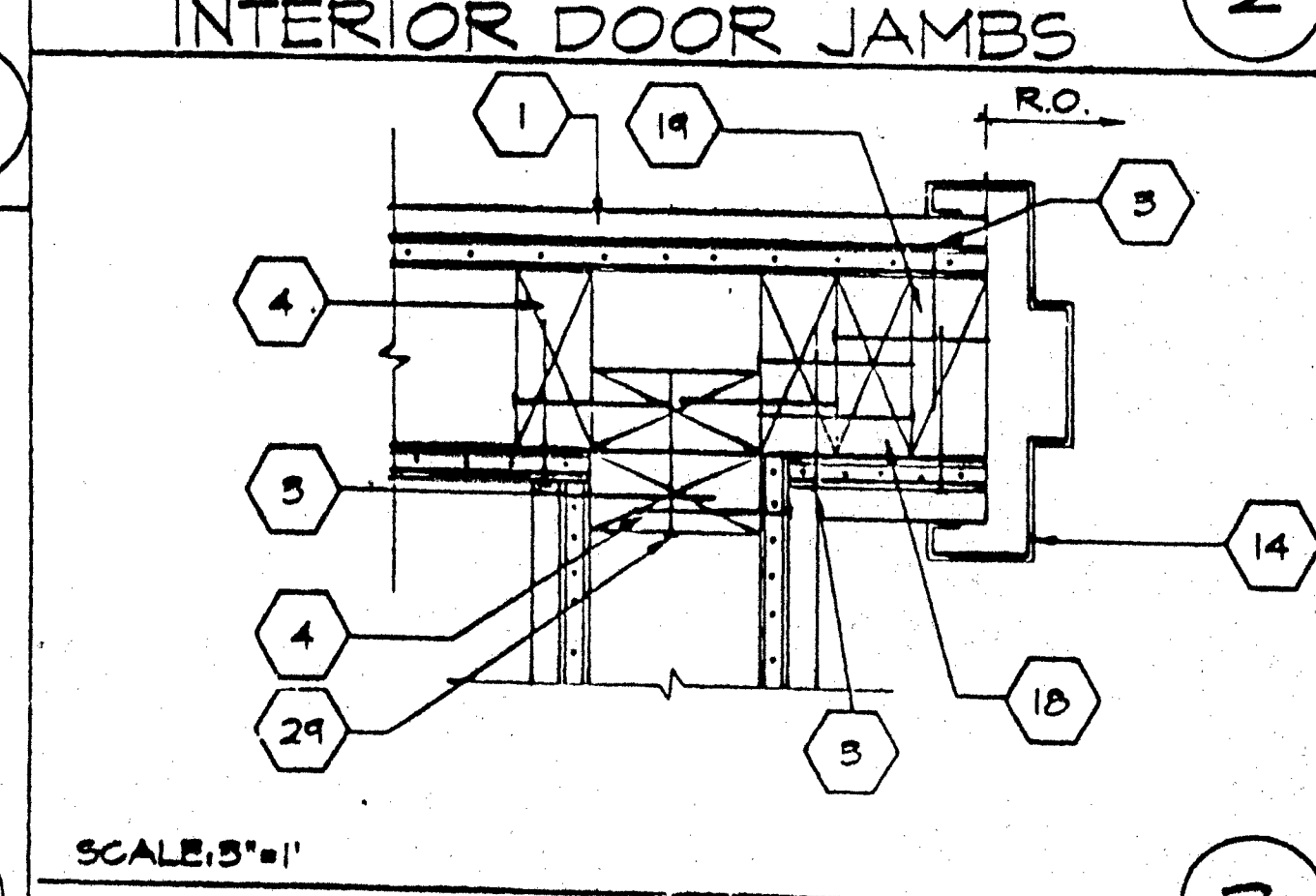
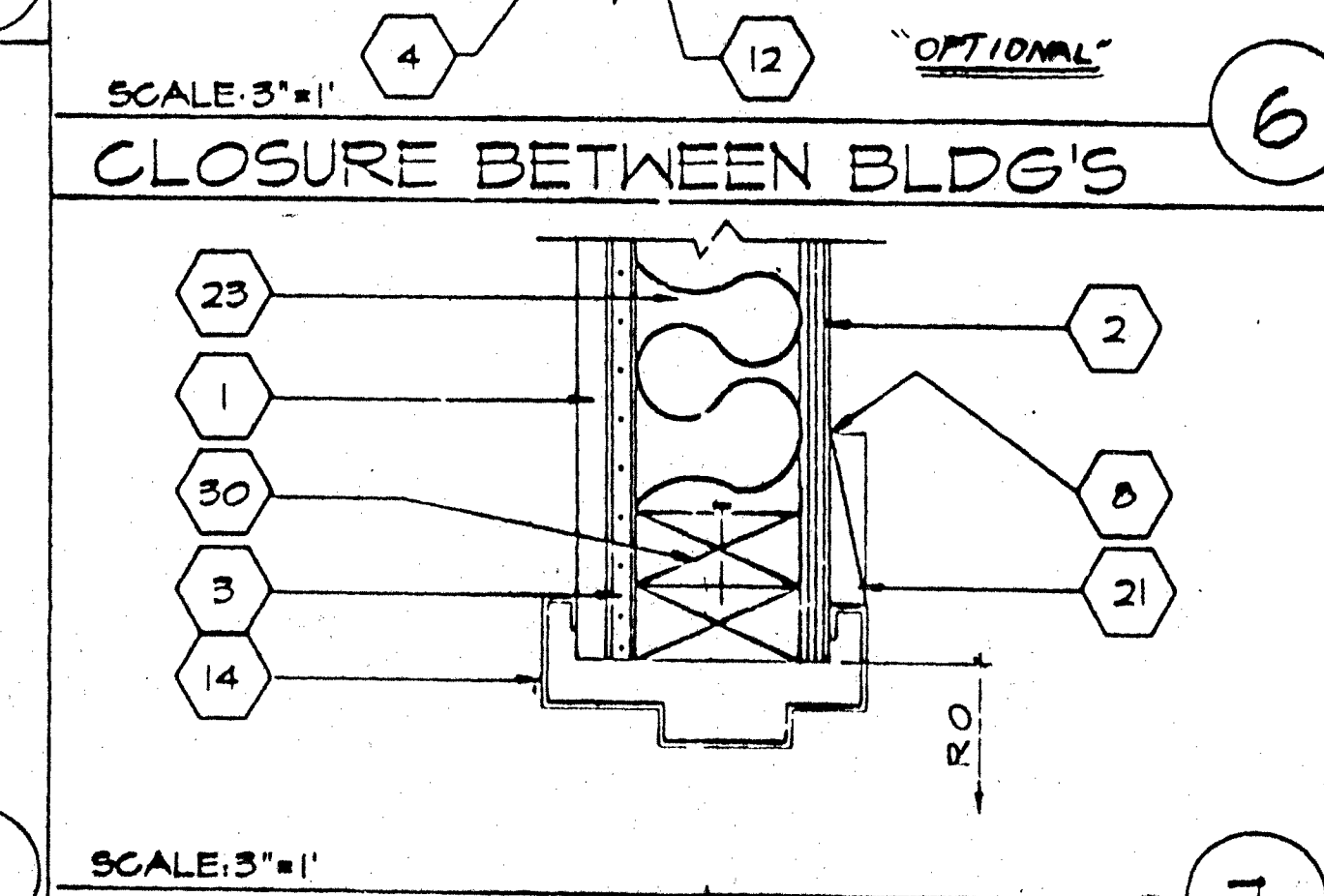
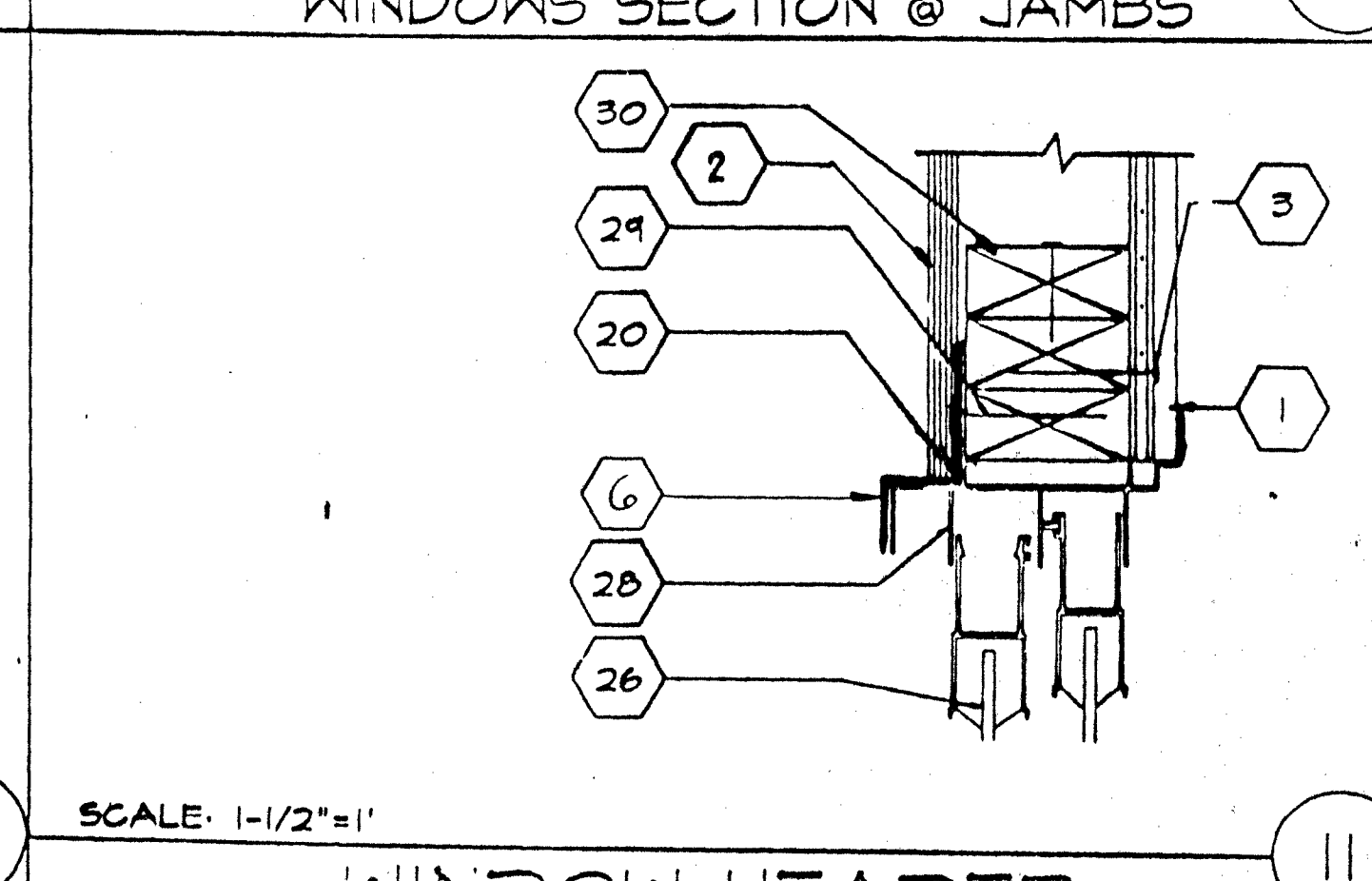
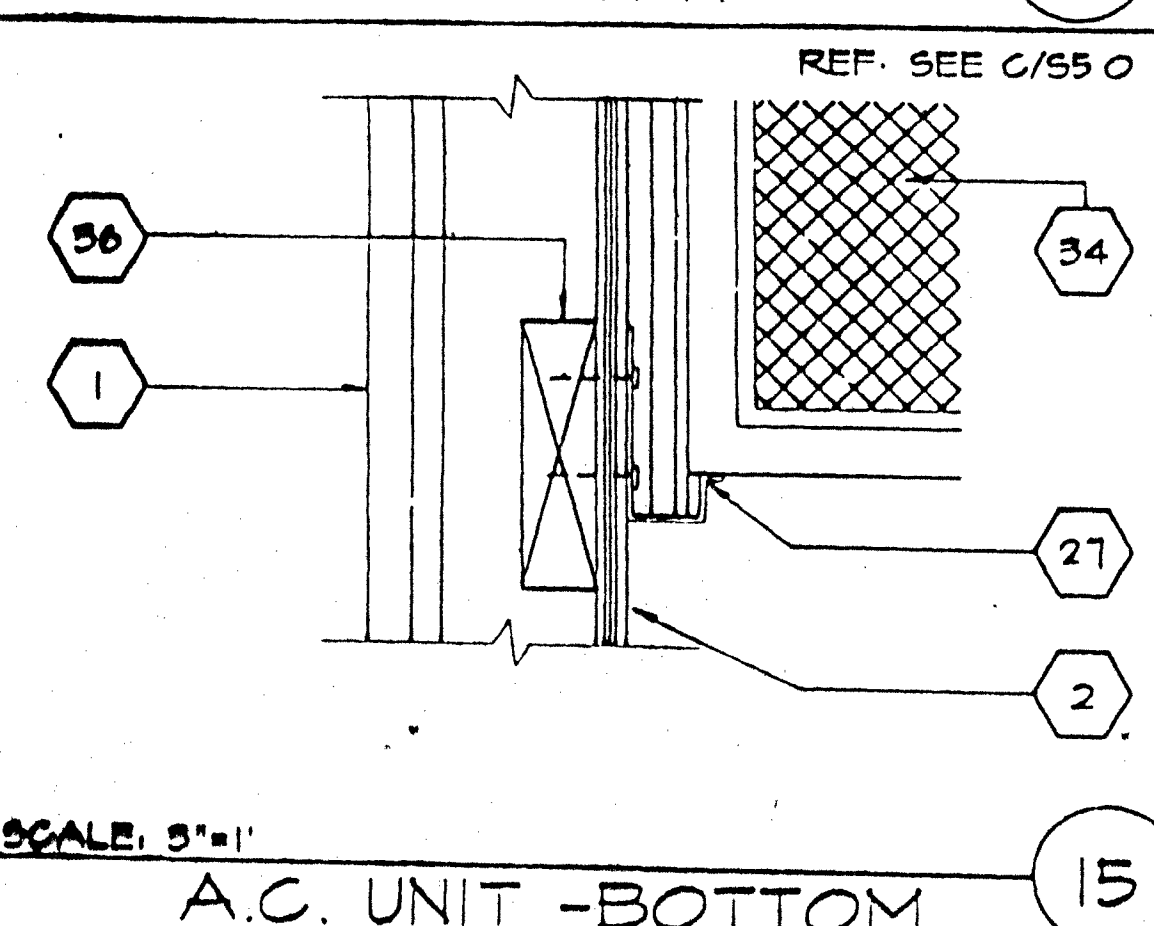
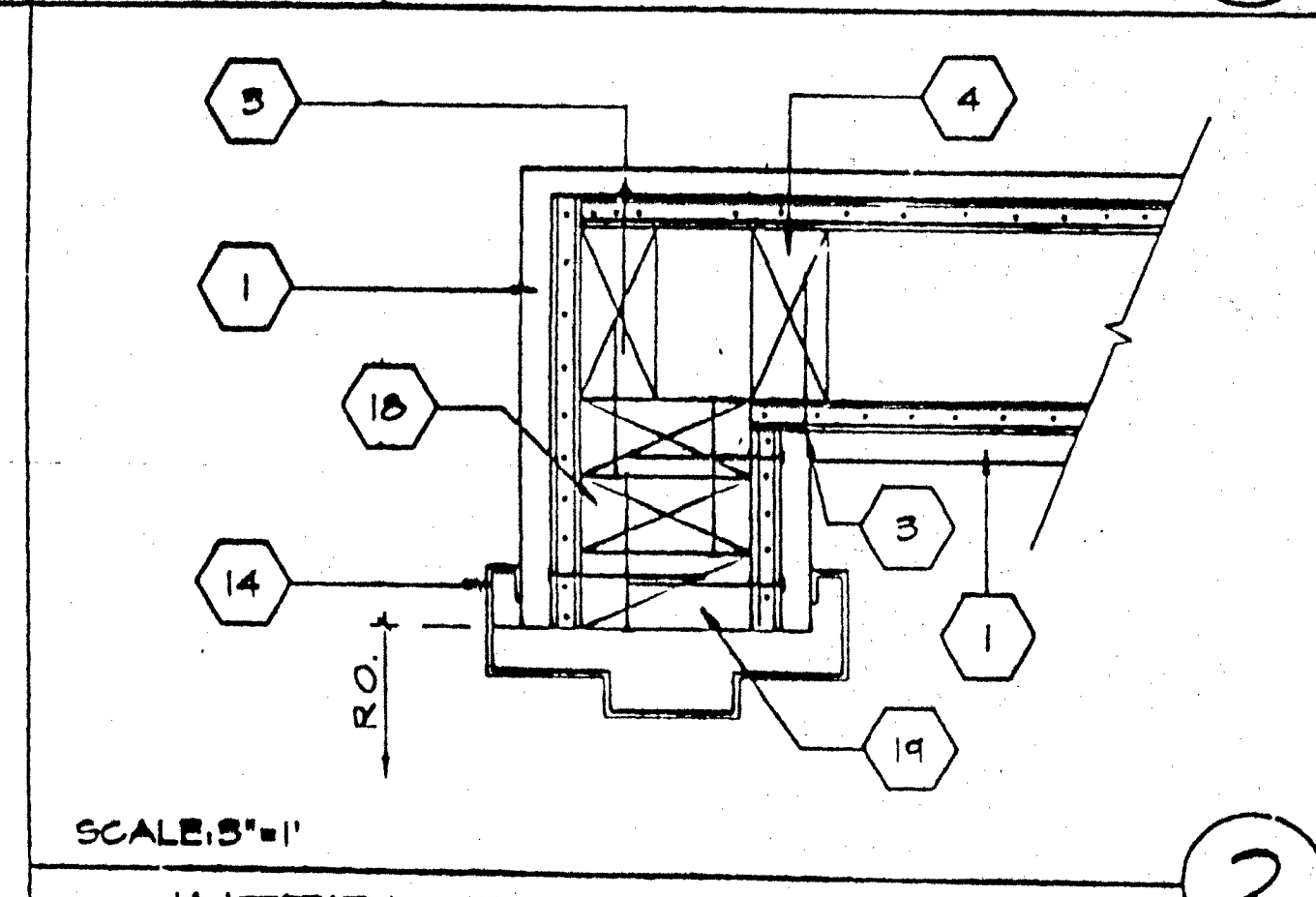
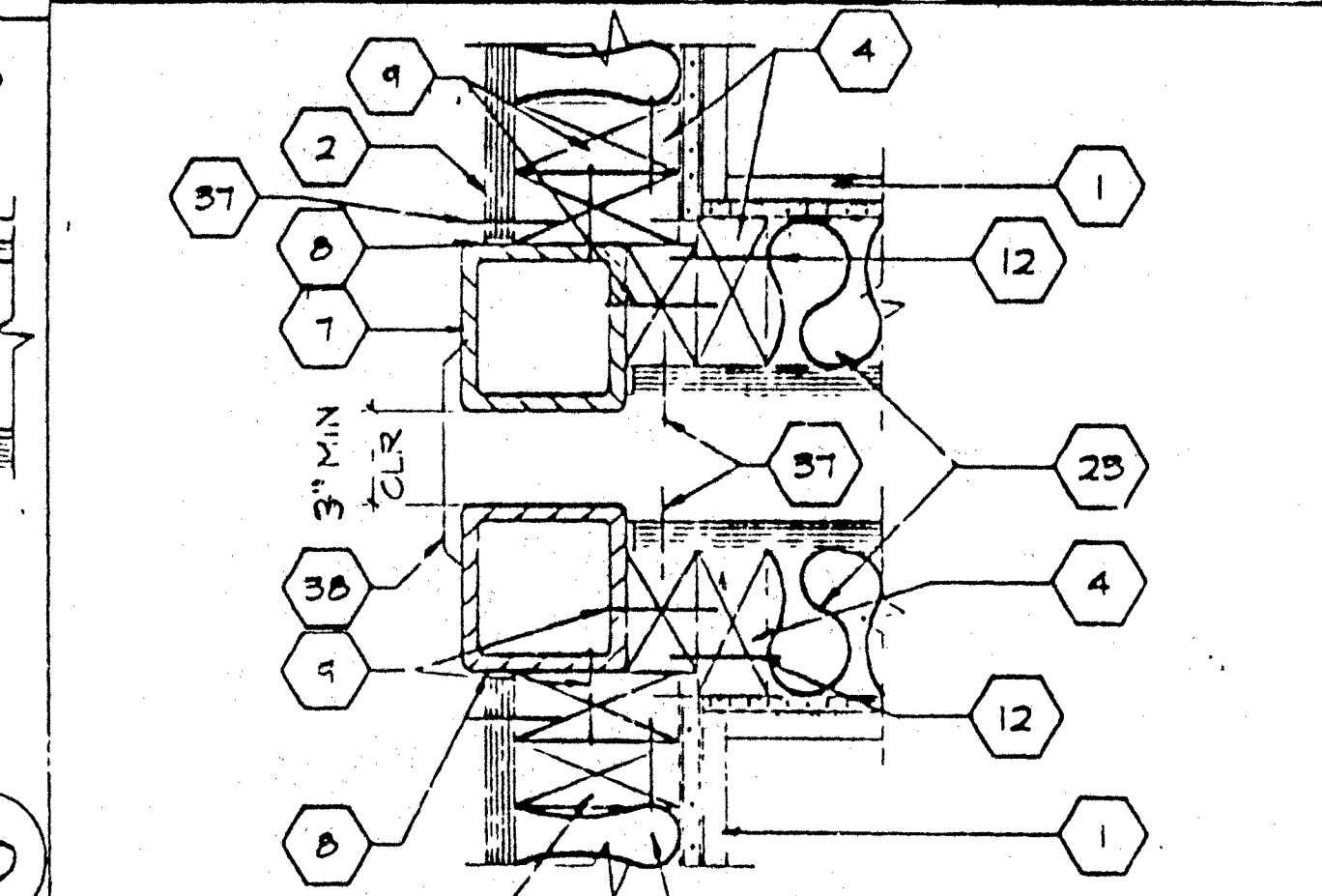
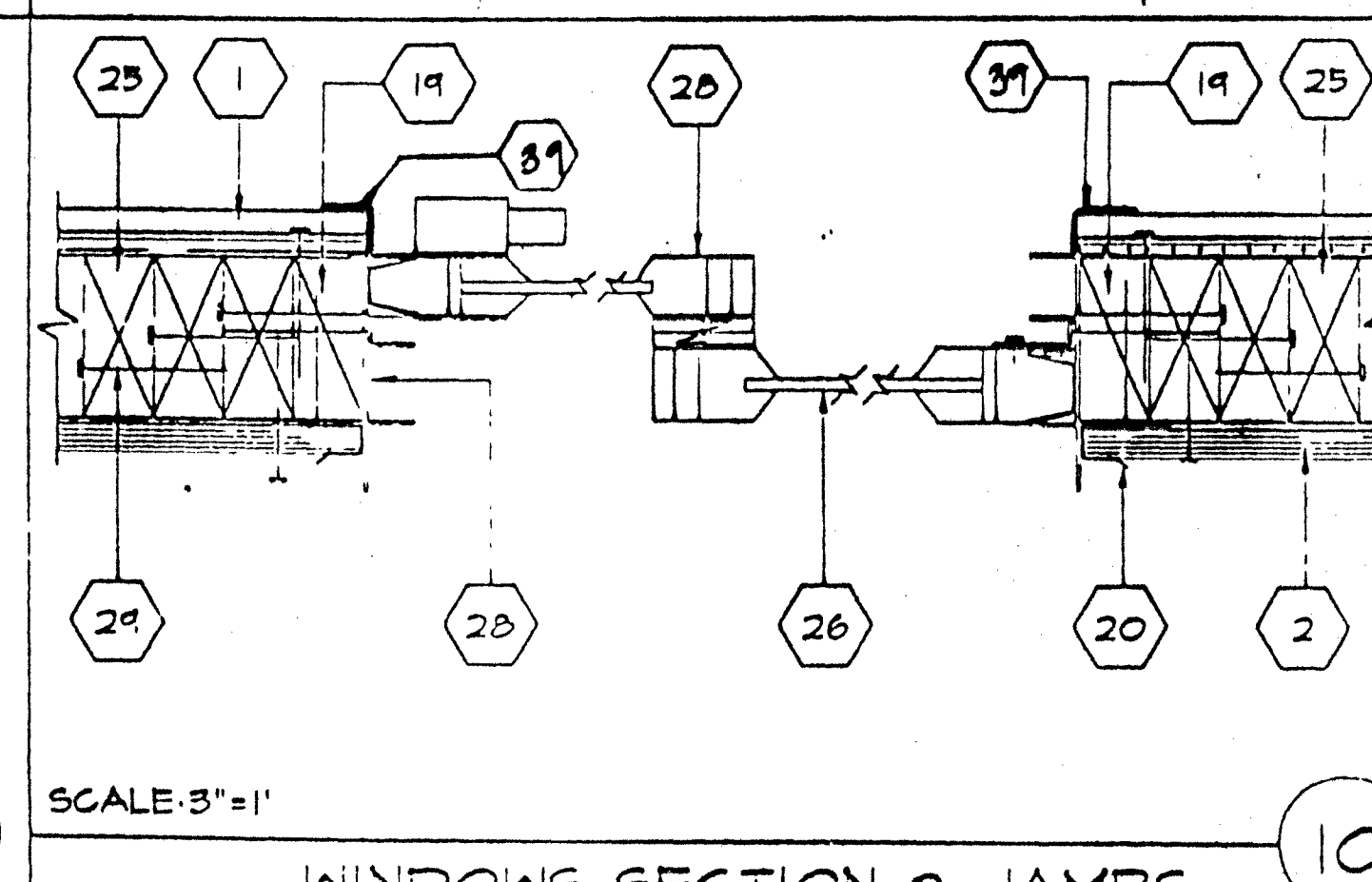
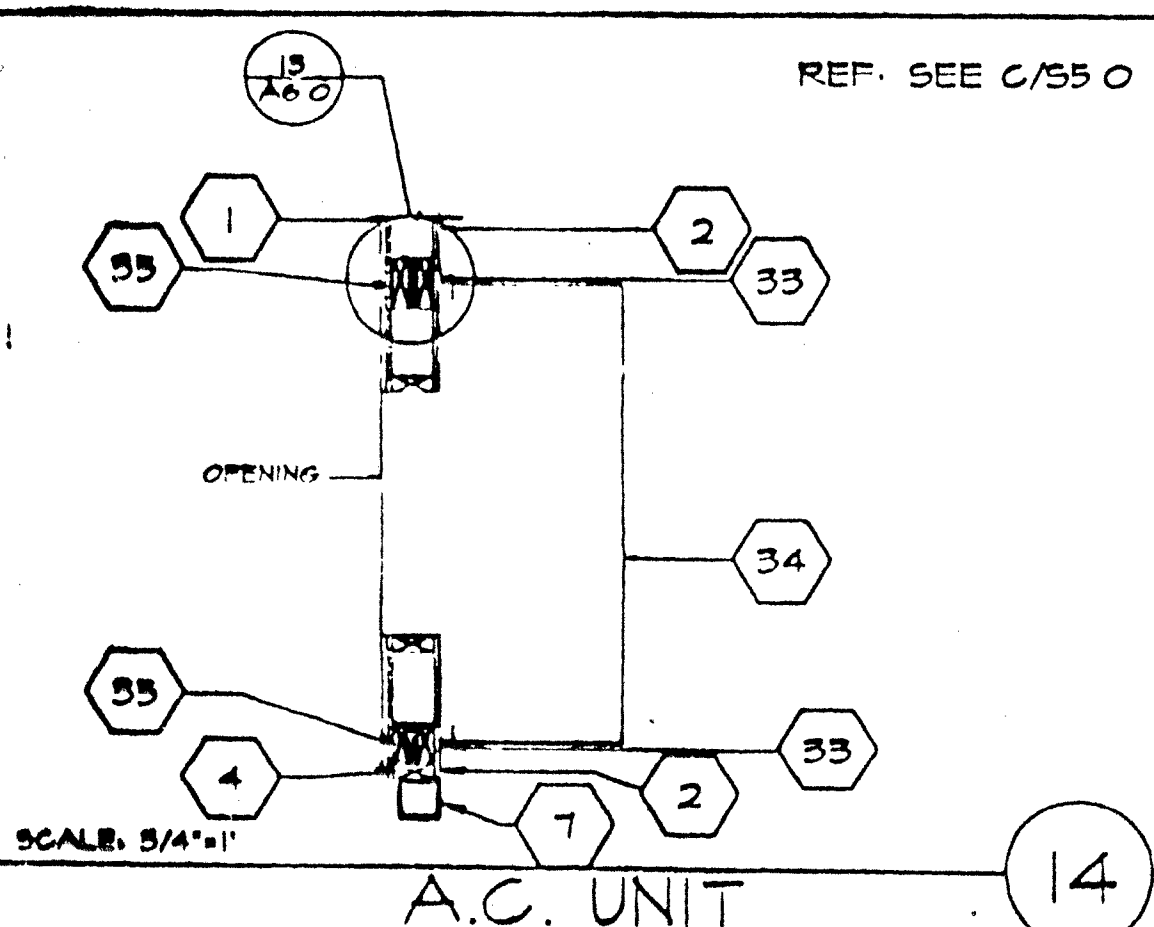
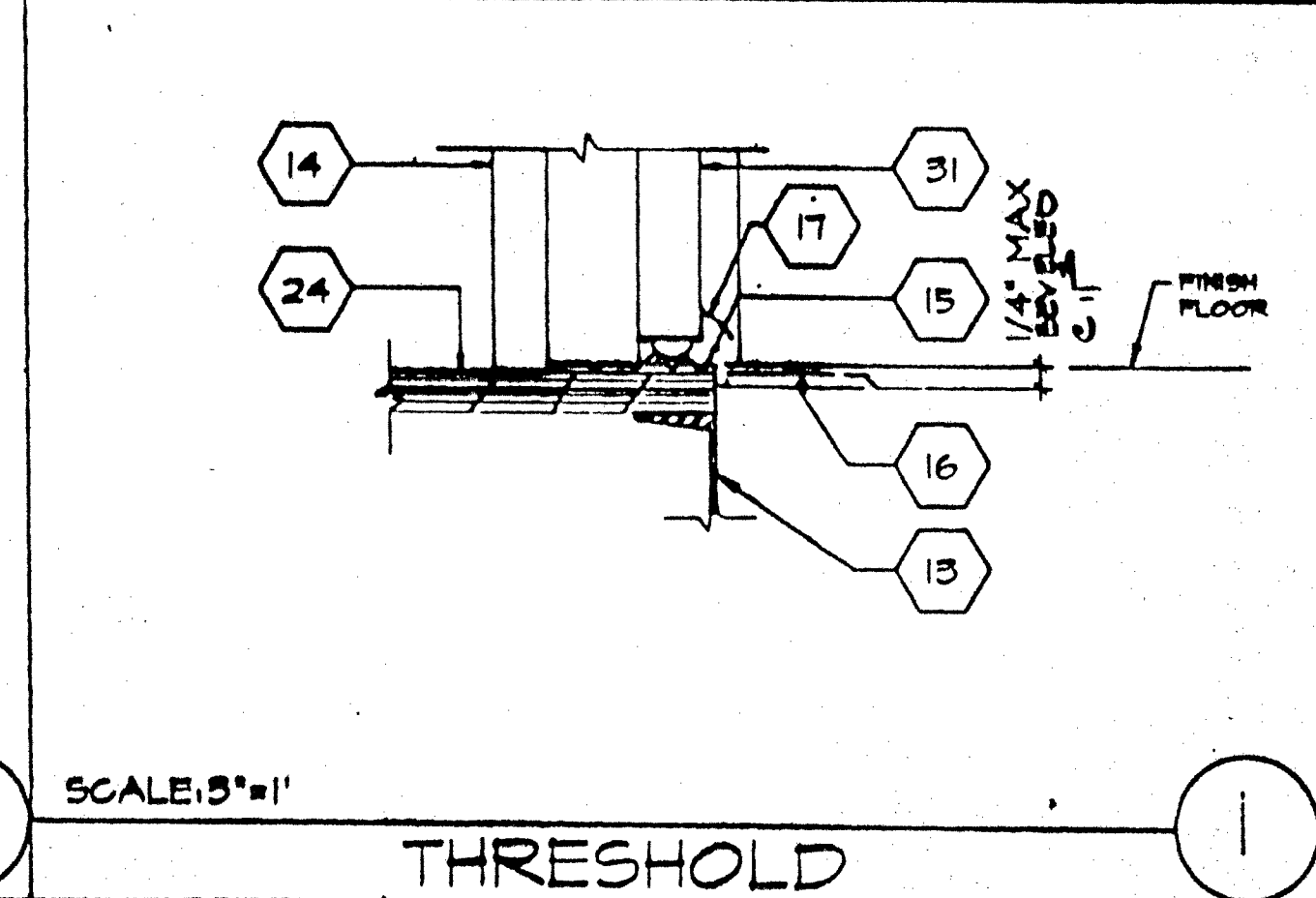
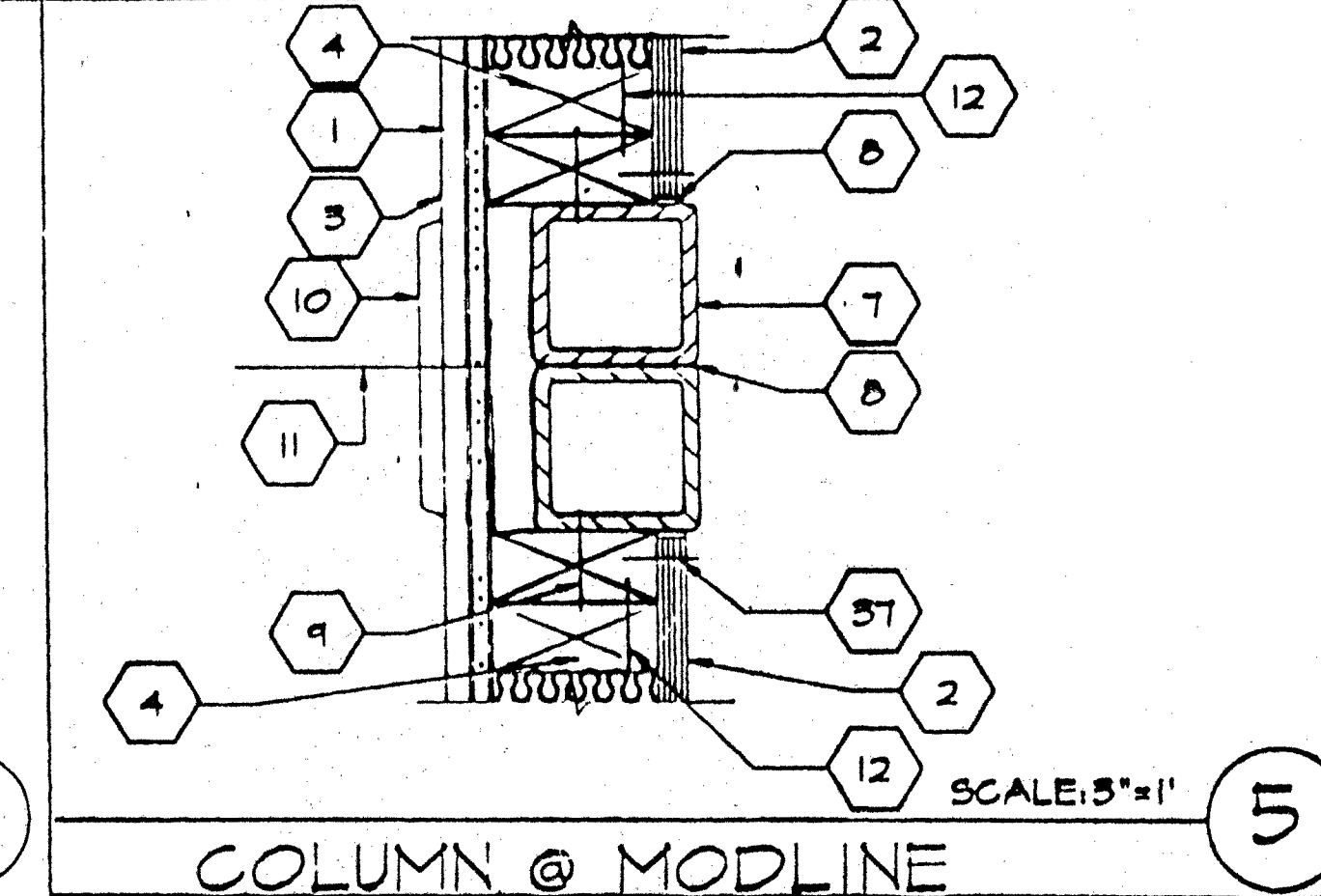
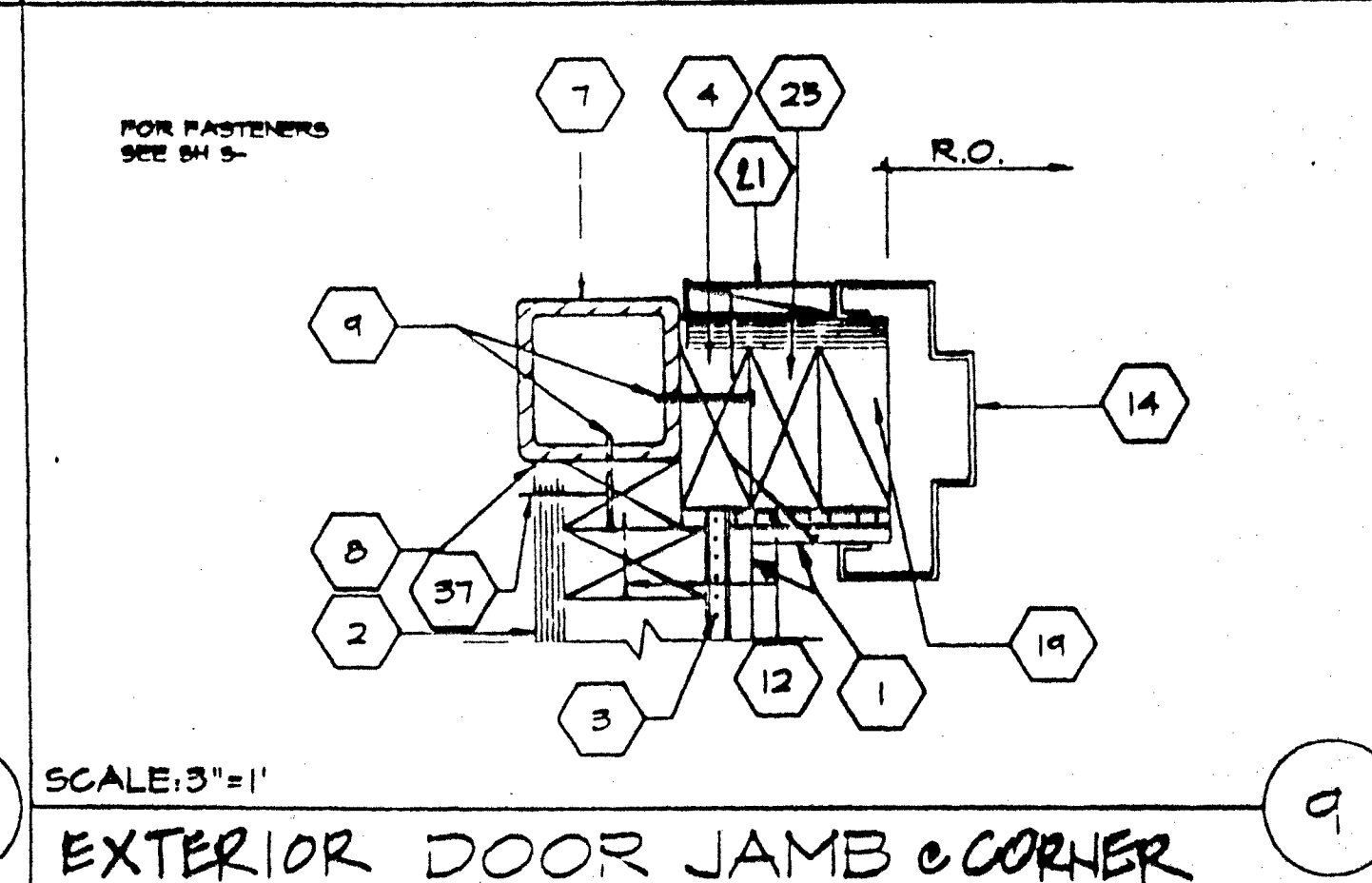
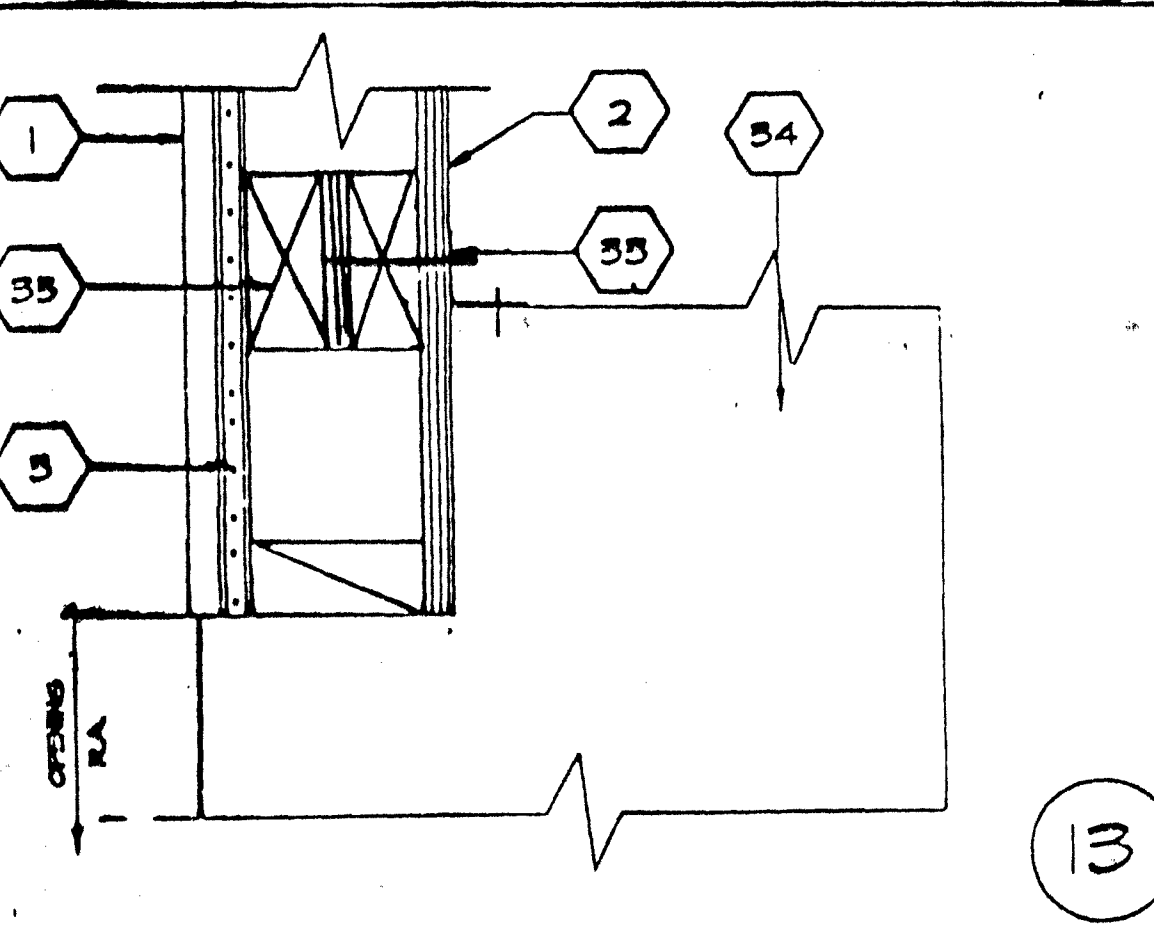
**EXTERIOR FINISH:** EXTERIOR PLYWOOD SIDING  
AFA COMPLIABLE, RATED B-C GRADE EXTERIOR TYPE  
SIDING:  
PANEL THICKNESS SHALL BE A MINIMUM OF 1/2"  
FASTENING NAIL W/ GALV. BOX NAILS - B-D @ 6" O.C EDGES,  
B-D @ 12" O.C FIELD.  
STYLE: PLAIN, V-CROOVED, OR RIVERSIDE BOARD & BATTEN







NOTES	
A	EN 8d ELECTRO GAL # 6" OC.
B	FN 8d ELECTRO GAL # 12" OC.
KEY NOTES	
1	TYP INTERIOR FINISH (SEE FINISH SCHED.)
2	TYP EXTERIOR FINISH
3	1/2" GYPSUM BOARD BACKING W/ 7d COOLER NAILS # MAX 1' OC TYP # EA STUD
4	2X4 STUD TYP # 16" OC MAX
5	16d # 16" OC MAX
6	DRIP FLASH
7	TUBE STEEL COLUMN (SEE STRUCTURAL)
8	SEALANT (TYP) <b>BA</b> SEALANT BEHIND TRIM
9	#10 STS M5 # MAX 24" OC 2X FILLER TO COLUMN SEE STRUC FOR CONN (ALT HILTI DNS2 PB SHOT PIN)
10	VINYL CLOSURE
11	MODULE JOINT
12	16d # 24" OC FACE NAIL OR 16d # 12" OC TOE NAIL
13	FLOOR BEAM (SEE STRUCTURAL)
14	PRESSED STEEL FRAME (K.D. TYPE SEE A3.0)
15	ALUMINUM THRESHOLD (SEE HARDWARE SCHEDULE)
16	FINISH LANDING SEE FLOOR PLAN & FOUNDATION FOR TYPE AND FINISH
17	DOOR BOTTOM (SEE HARDWARE SCHEDULE)
18	(2) 2X4 KING STUD (SEE SHT 55.0 TABLE 25G FOR NAILING)
19	2X4 TRIMMER (SEE SHT 55.0 TABLE 25G FOR NAILING)
20	"J" MOLD 2G GA
21	1X4 WOOD TRIM W/8d ELECTRO GALV # 12" OC
22	2-2X4 SILL PLATE W/16d # 16" OC
23	INSULATION (SEE SPECS FOR SIZE AND TYPE)
24	FINISH FLOORING (SEE FINISH SCHEDULE SHT. A3.0)
25	2X4 JAMB STUDS (SEE SHT 55.0 DETAILS FOR NUMBER OF STUDS REQUIRED AND TABLE 25G FOR NAILING)
26	WINDOW GLAZING (SEE WINDOW SCHEDULE SHEET A3.0)
27	AIR CONDITION UNIT BOTTOM SEAT 12.0" x 24" W/1/2" x 1/2" x 2" LAG BOLTS
28	ALUMINUM WINDOW FRAME WITH NAIL-ON FINISH. INSTALL W/IN 3" BLDG PAPER BTWN FIN AND FRAMING INSTALL WITH 8d # MAX 24" OC
29	16d BOY STAGGERED # MAX 24" OC
30	HEADER (SEE SHT 55.1 WALL FRAMING DETAILS)
31	DOOR (SEE DOOR SCHED)
32	SEE SHEET 55.1 FOR TYPICAL WALL FRAMING NAILING
33	ATTACHMENT BRACKET (SEE MFG. NOTE LEAVE OR USE MFG. STD.)
34	HVAC UNIT (SEE SHEET M-1)
35	2-2X4 FULL HT STDS



ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
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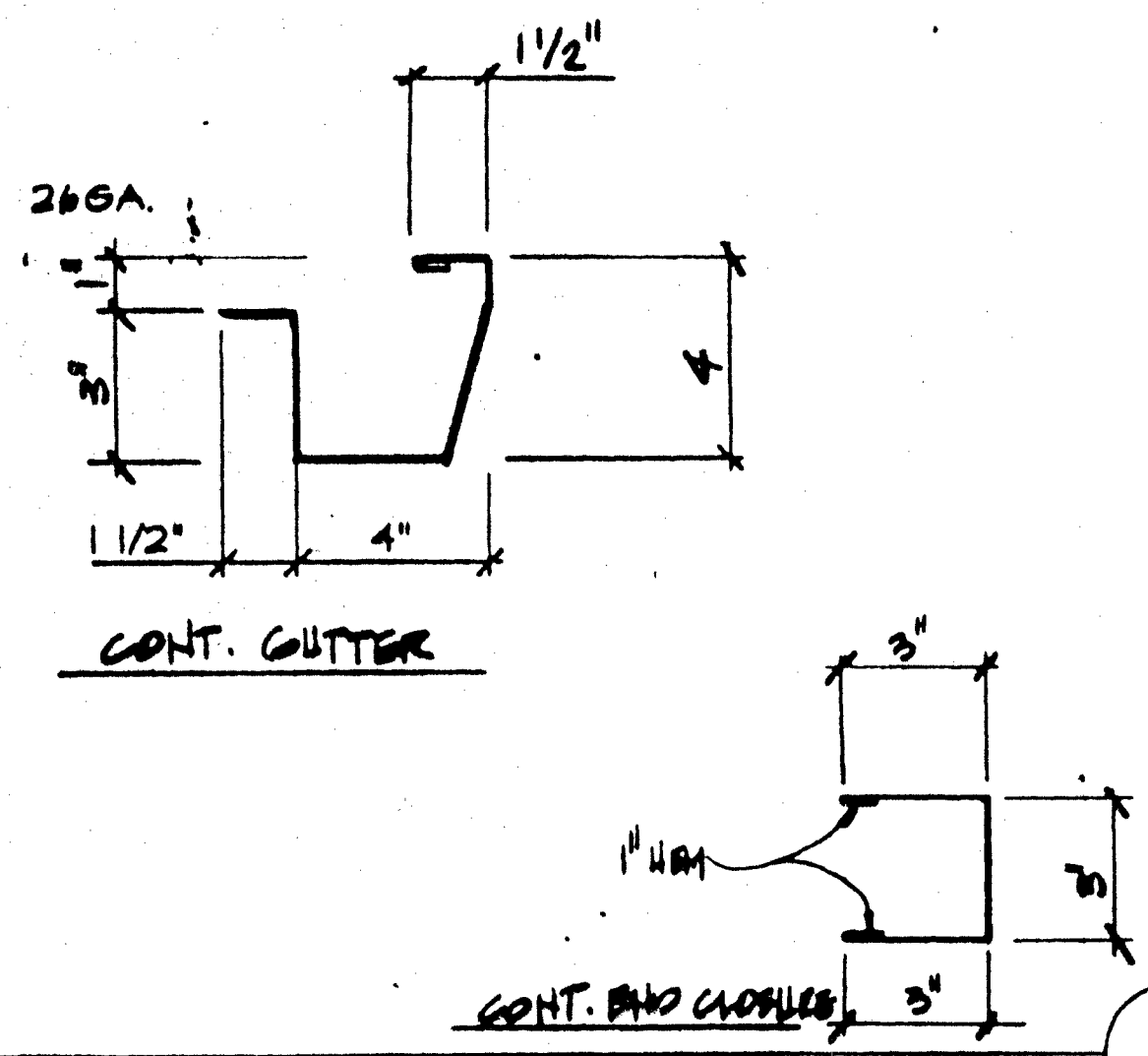
ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
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ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
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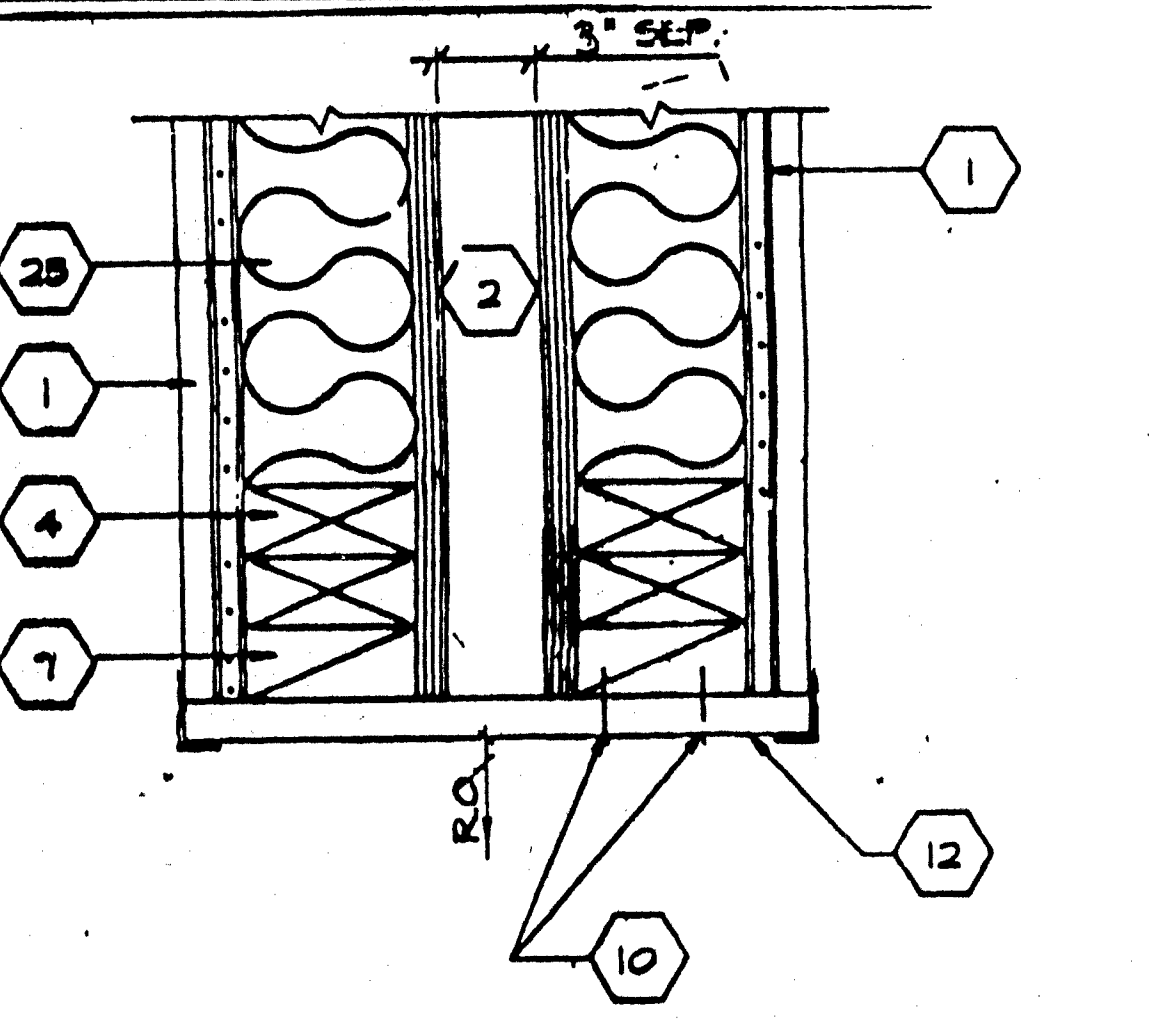
ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY
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2961	IDENTIFICATION STAMP DIV. OF INSPECTION & PROTECT OFFICE OF REGULATION & SERVICES	Q MODTECH INC. 1994	DRAWN BY DATE CHECKED BY DATE
PC-275	MODTECH INC.	TYPICAL DETAILS	A6.0

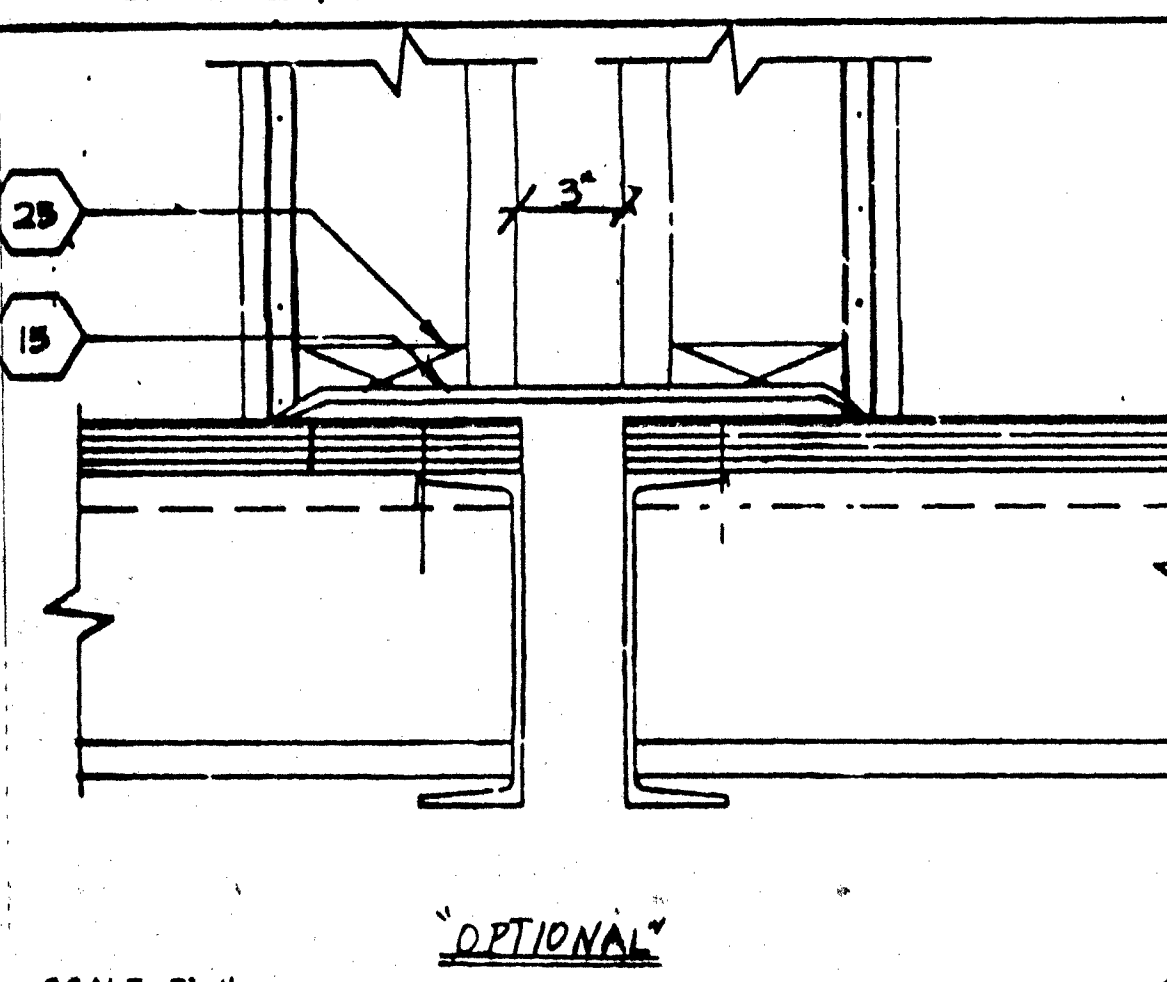




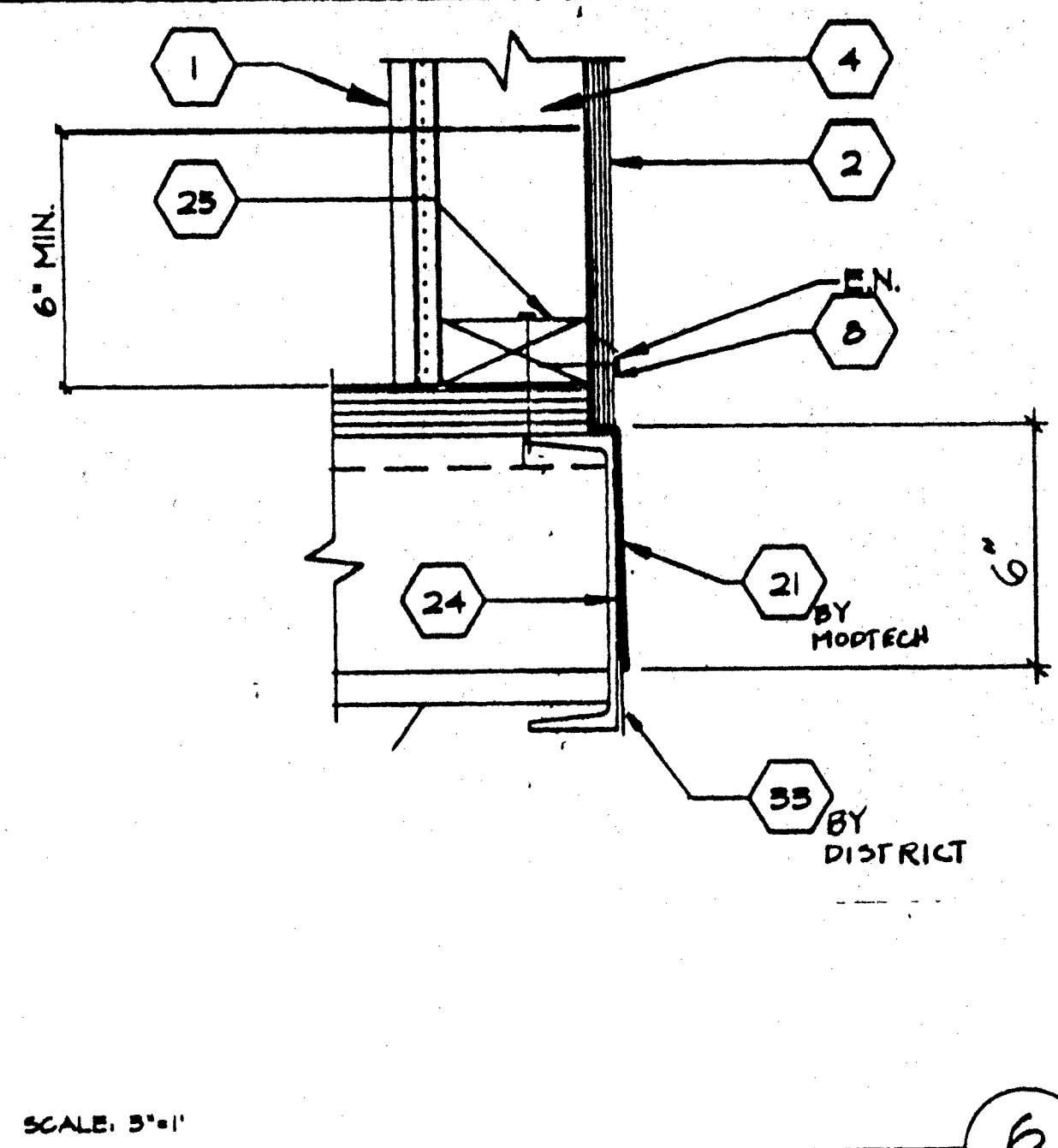
CONTINUOUS GUTTER & CLOSURE



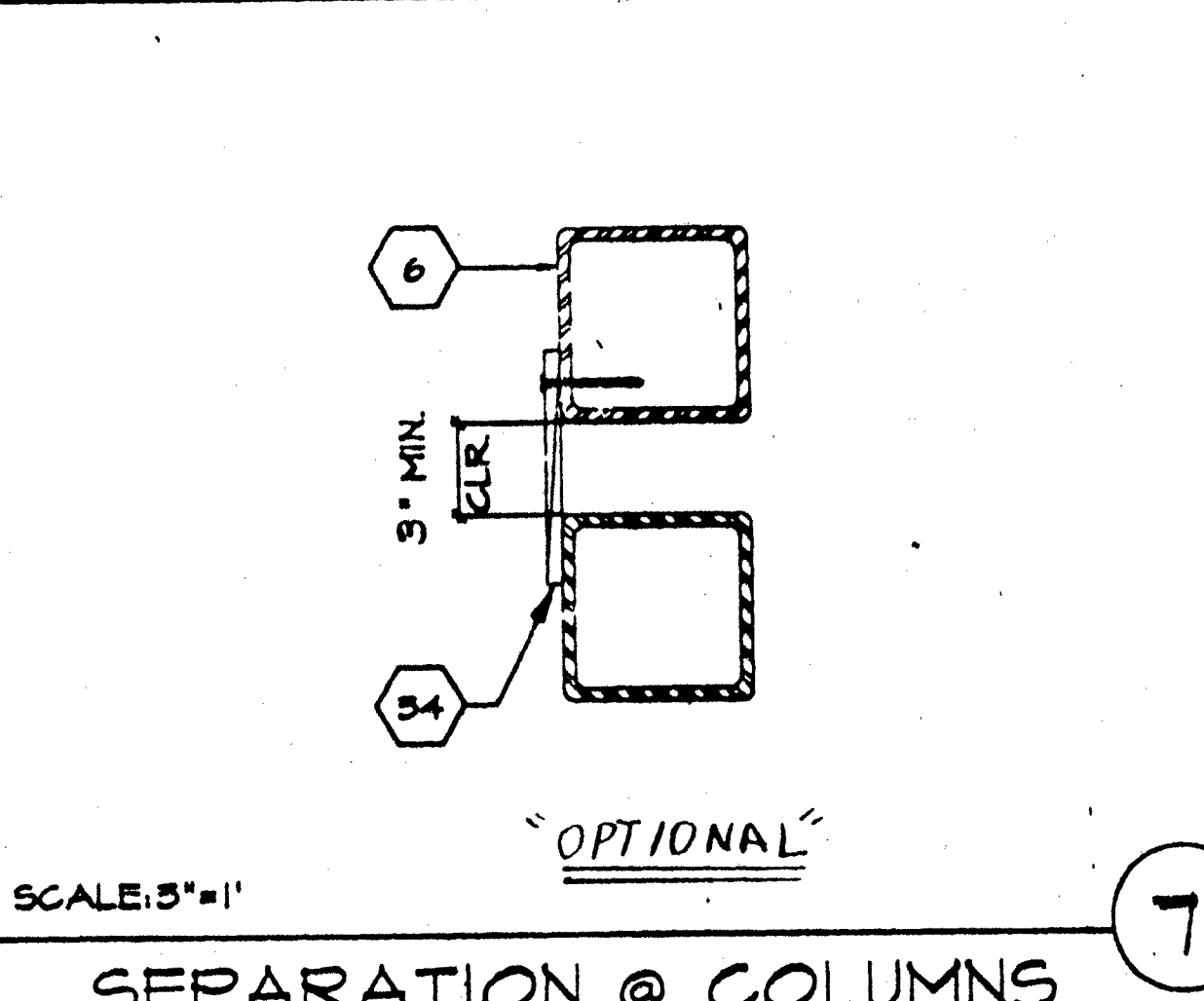
JAMB/HEAD @ 3" SEP.



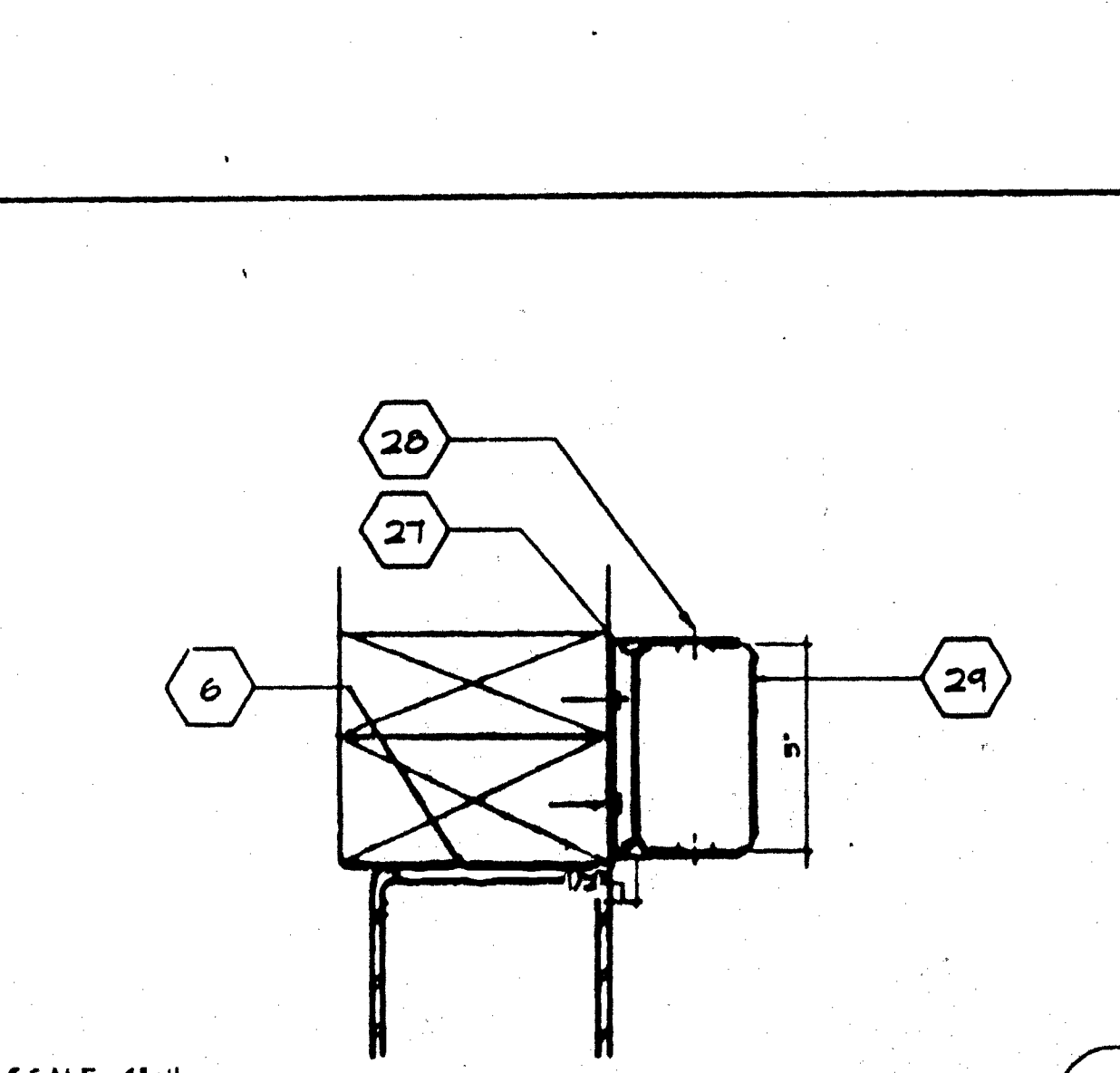
TYPICAL SILL @ FLOOR



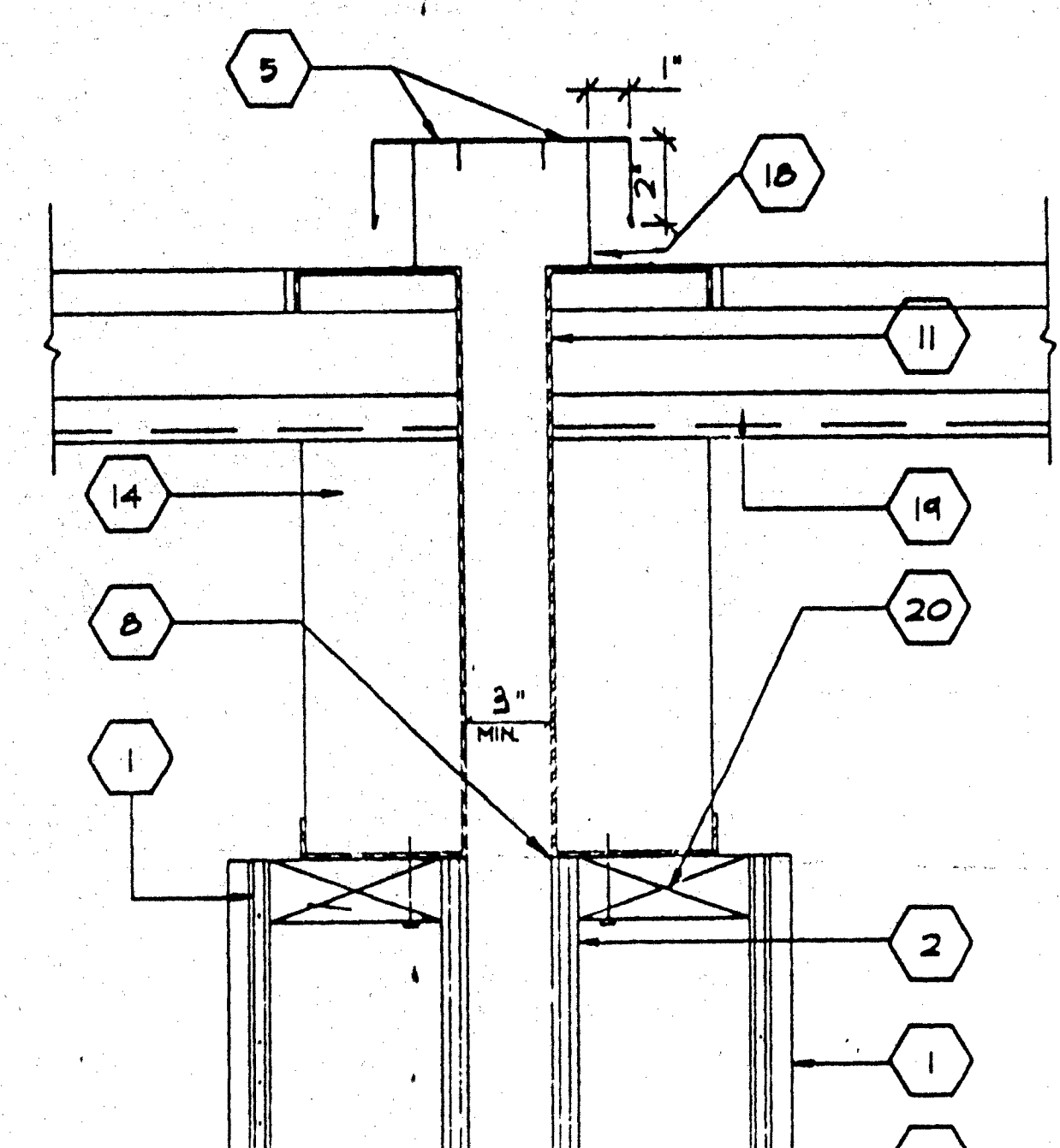
TYPICAL SILL @ FLOOR



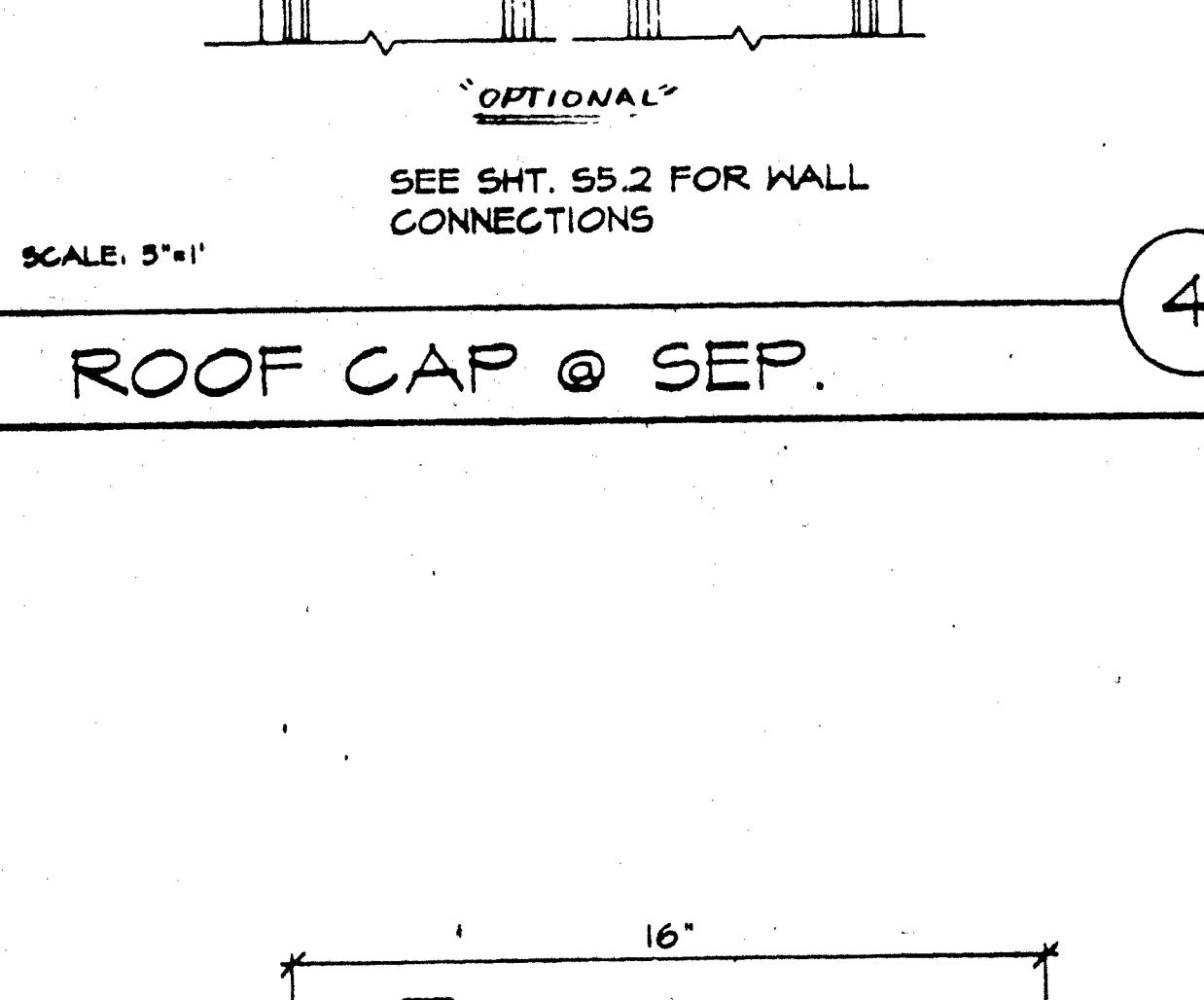
SEPARATION @ COLUMNS



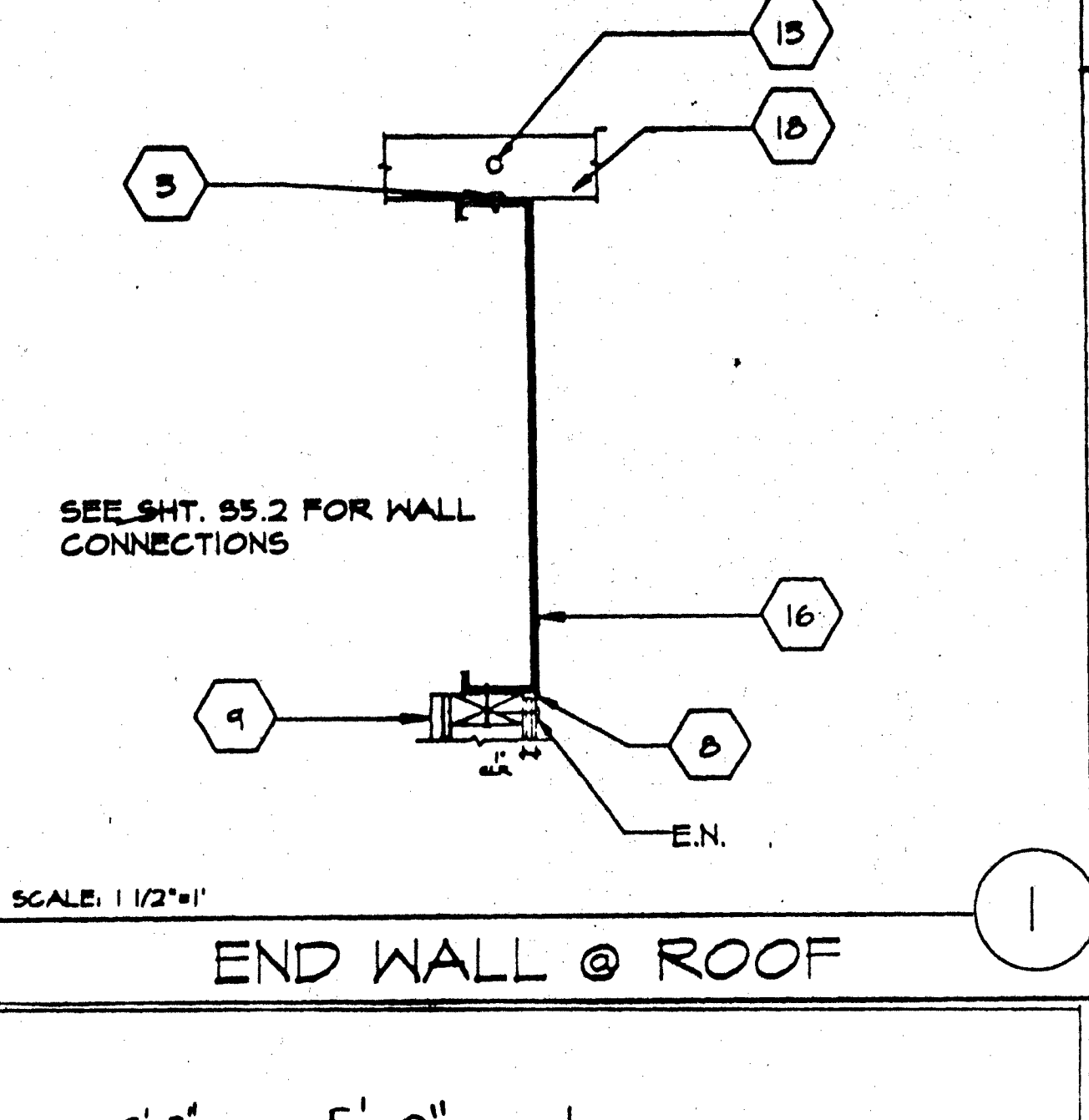
DOWNSPOUT ATTACHMENT



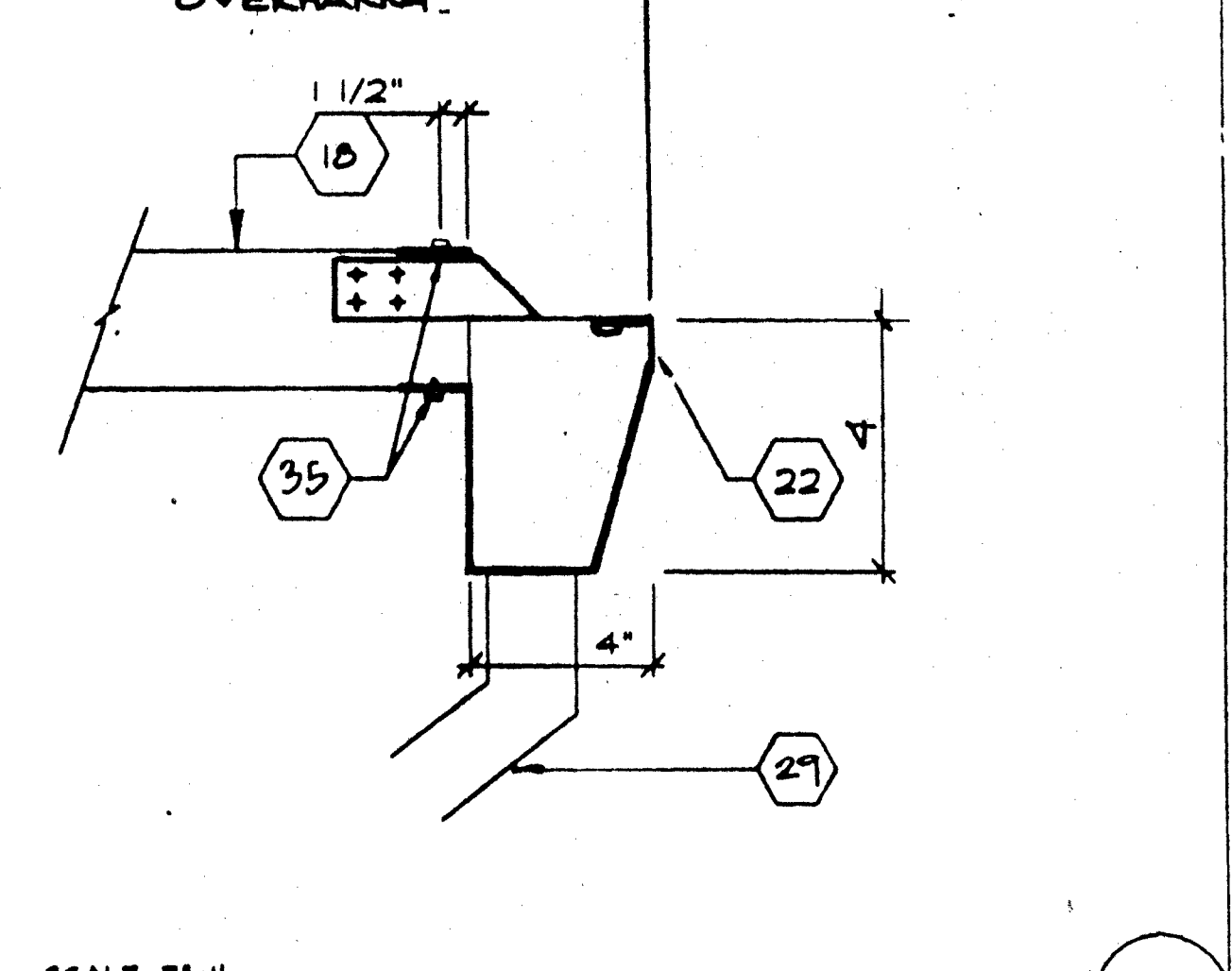
ROOF CAP @ SEP.



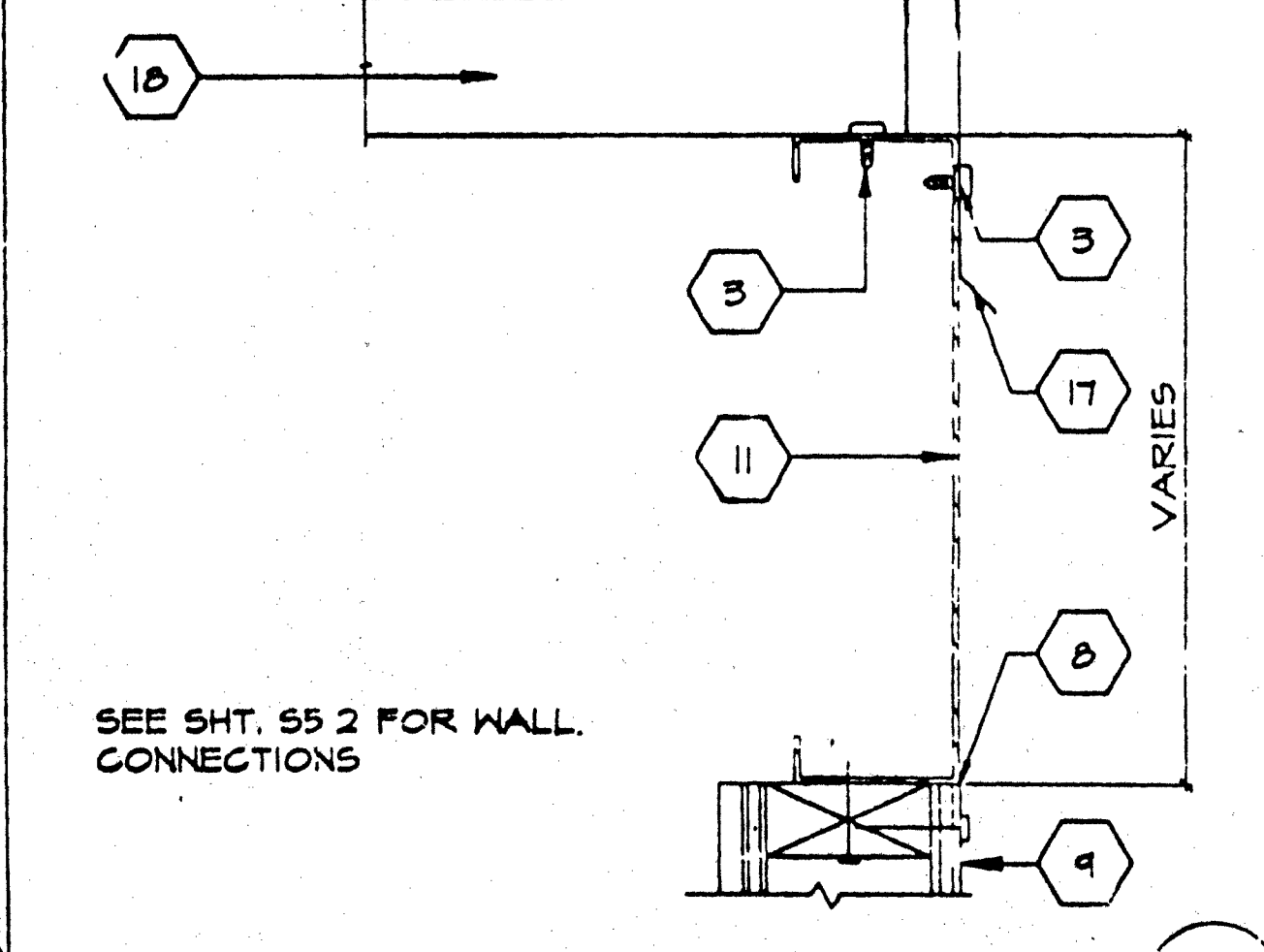
ROOF SEAM



END WALL @ ROOF



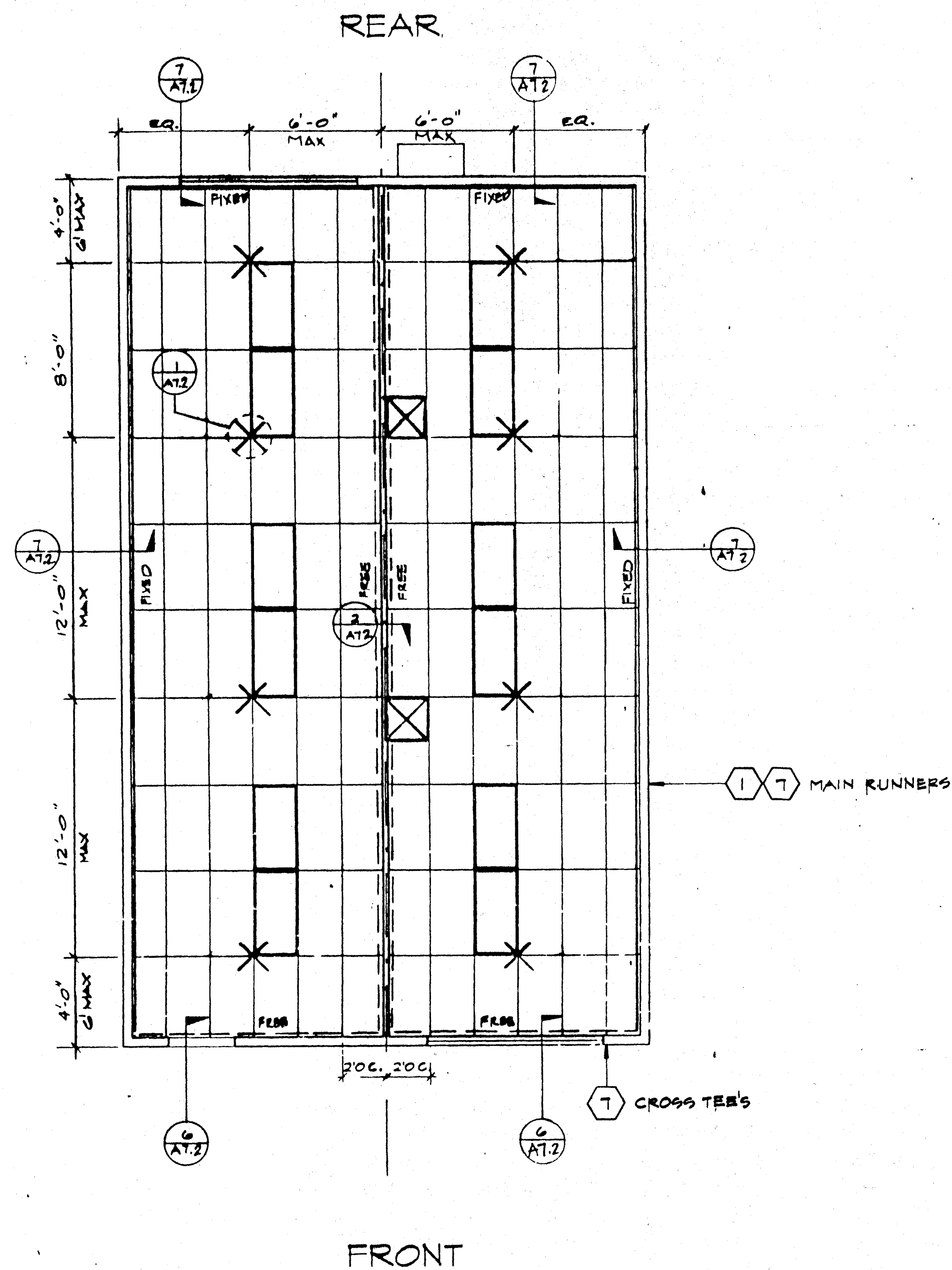
GUTTER @ ROOF HEADER



ROOF FLASHING @ ROOF BEAM

- KEY NOTES**
- 1 TYP. INTERIOR FINISH
  - 2 TYP. EXTERIOR FINISH
  - 3 #14 STMS X 3/4" W/NEO WASHER 3 PER PAN-MAX @ O.C.
  - 4 2X4 STUD TYP
  - 5 CAP CLOSURE @ RIDGE 26GA. GALV. W/10 X 3/4" FASTENERS @ 48" O.C. W/NEOPRENE WASHERS TO RIB SET BOTH SIDES OF CAP IN SEALANT.
  - 6 TUBE STEEL (SEE STRUCTURAL)
  - 7 2X4 TRIMMER FULL HEIGHT
  - 8 SEALANT TYP (SEE SPECIFICATIONS)
  - 9 EXTERIOR WALL (SEE S5.2 FOR CONNECTIONS)
  - 10 #10 STMS X 3/4" @ 1' O.C. (FIELD APPLIED)
  - 11 ROOF BEAM (SEE STRUCTURAL)
  - 12 1X JAMB PLATE
  - 13 (1) - #14 X 3/4" STMS W/NEOPREN WASHER THRU RIB
  - 14 FULL DEPTH STIFFENER PLATE (SEE STRUCTURAL FOR LOCATION)
  - 15 FLOATING THRESHOLD (ATTACH BY FIELD DIV.)
  - 16 ROOF HEADER (SEE STRUCTURAL)
  - 17 G.I. FLASHING 22GA
  - 18 STANDING SEAM ROOF (SEE A2.0 FOR GA.)
  - 19 ROOF PURLIN (SEE STRUCTURAL)
  - 20 CONTINUOUS 2X4 TOP PLATE
  - 21 22GA. GALV. FLASHING (ONLY AT BELOW GRADE CONC. FOUNDATION)
  - 22 CONTINUOUS 26GA. GUTTER (SEE 9/L-6.1)
  - 23 INSULATION (SEE SPECS FOR TYPE AND SIZE)
  - 24 FLOOR BEAM (SEE STRUCTURAL)
  - 25 2X4 SILL PLATE ATTACHED PER 4/55 I
  - 26 24GA X 1 1/2" STRAP @ 48" O.C
  - 27 ATTACHMENT BRACKET (TYP 3-PLACES, TOP BTM, & MIDSPAN W/2-#10 STMS BRACKET TO COLUMN)
  - 28 #8 STMS - 2 @ EA SIDE OF DOWNSPOUT TO BRACKET
  - 29 DOWNSPOUT
  - 30 BLOCKING BRACKET
  - 31 8" O.C MAX SPACING
  - 32 1/2" X 1/2" X 20 GA. CORNED ANGLE W/2-#10 STMS TO PURLIN (TYP) @ 8" O.C.
  - 33 22GA. GALV. FLASHING INSERTED UNDER (3) CAULK JOINT (ONLY AT CONCRETE BELOW GRADE) BY DIST.
  - 34 26GA. TRIM ATTACH TO COLUMN ONE SIDE W/10 STMS @ 12" O.C. ALT. EXPENDED METAL CLOSE OFF
  - 35 #10 STMS @ 24" STANDING RIB (32" O.C)





# REFLECTED CEILING PLAN

(24' x 40')

SCALE 1/4"=1'-0"

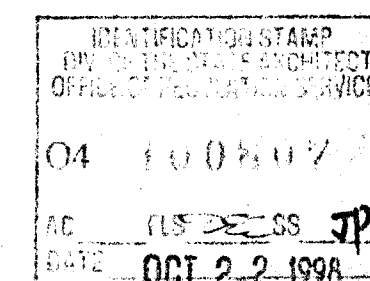
## KEY NOTES

1. MAIN RUNNERS @ 4'-0" W/12GA HANGER WIRES
2. END OF EACH RUNNER
3. AT THE END OF ROWS OF RUNNERS A 12GA HANGER WIRE SHALL BE ATTACHED WITHIN 8" OF WALL OR SOFFIT
4. VERTICAL WIRES MORE THAN 1-IN-6 OUT OF PLUMB SHALL HAVE COUNTERBRACING WIRES
5. PROVIDE 2-12GA SLACK WIRES TO HOUSING OF ALL LIGHT FIXTURES AT DIAGONAL CORNERS WIRES SHALL BE ATTACHED TO STRUCTURE LIGHT FIXTURES 2 X 4 RECESSED, ATTACHED TO GRID W/1-#8 SHEET METAL SCREW AT EACH CORNER
6. RUNNERS MAY BE ATTACHED TO WALLS OR MOLD AT 2-ADJACENT WALLS OTHER WALLS NO ATTACHMENT, CLEARANCE OF 1/2" BETWEEN END OF RUNNERS AND FACE OF WALL
7. CEILING AREAS SHALL HAVE 4-WAY SPLAYS PER DETAIL 1 ON SHEET A7.2 IN LOCATIONS INDICATED ON DRAWINGS WIRES TAUT BUT NOT TO DISTORT GRID

## T-BAR PART NUMBERS

	ARMSTRONG PA-041	CHICAGO METALLIC IR-47	USG IR-47
RUNNER MAIN	7301	200	DS '26
4' CROSS TEE	7342	1210	DX 422
2' CROSS TEE	7328	1226	DX 216
WALL ANGLE	7800	1420-01	M-7

8. DUCTWORK SHALL BE RIGIDLY ATTACHED TO BUILDING AND SHALL NOT BE CLOSER THAN 6" TO HANGER WIRES
9. REGISTERS SHALL BE POSITIVELY ATTACHED W/4-10GA SHEET METAL SCREWS
10. CEILING PANELS 2 X 4 LAY-IN PANELS ASTM FLAME SPREAD CLASS (0-25) FLAME SPREAD SMOKE DEVELOPMENT DENSITY LESS THAN 450



## LEGEND

- T & T BAR CEILING
- 2'X4' ELEC FIXTURE RECESSED
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- SPLAY WIRE - 4 WAY
- INDICATES FREE SIDE (SEE DETAIL 6/A7.2)
- INDICATES FIXED SIDE (SEE DETAIL 7/A7.2)

ARCHITECT

ELECTRICAL

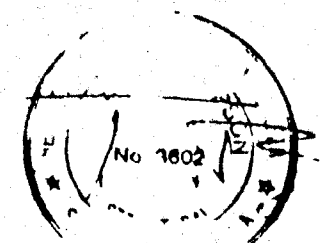
STRUCTURAL

MECHANICAL

FIRE MARSHAL

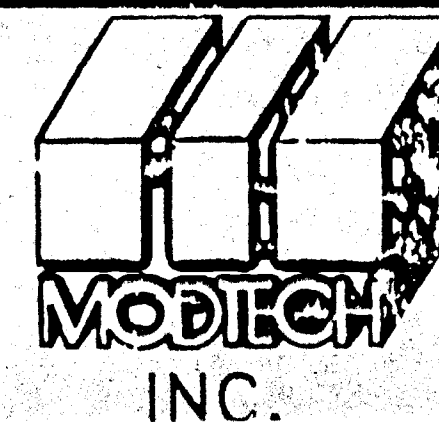
ACCESS COMPLIANCE

STRUCTURAL SAFETY



PC-275

JUL 17 1996



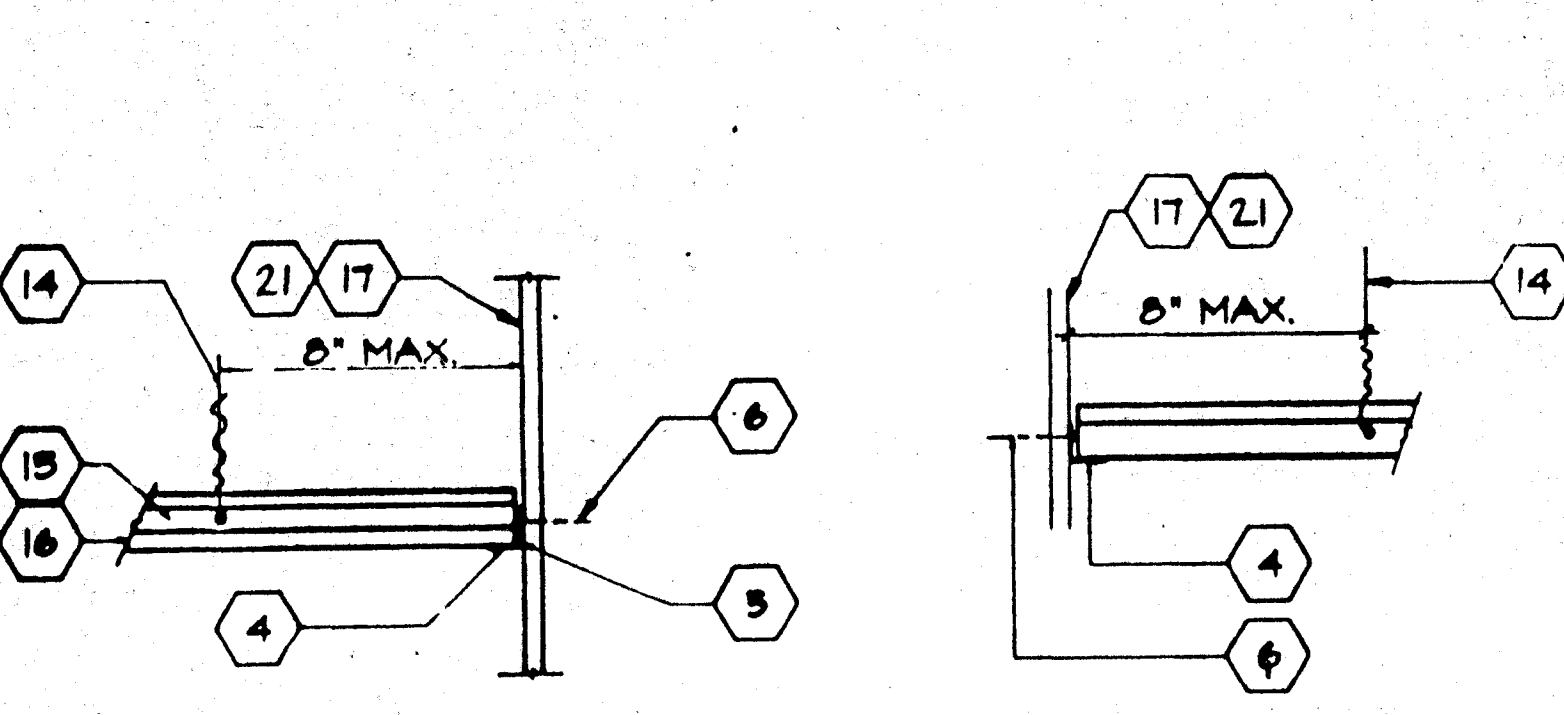
2961

REFLECTED CEILING PLAN

A7.0

PC 275

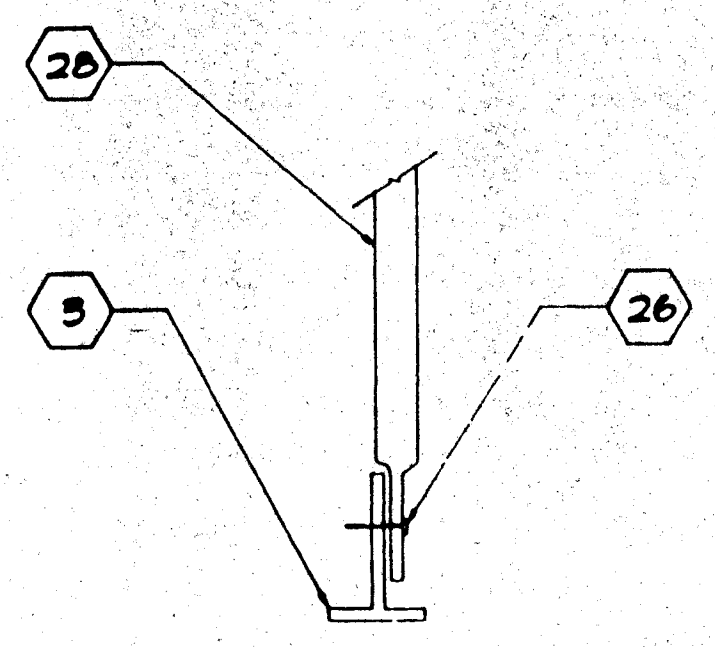




ALTERNATE

TYPICAL FIXED SIDE

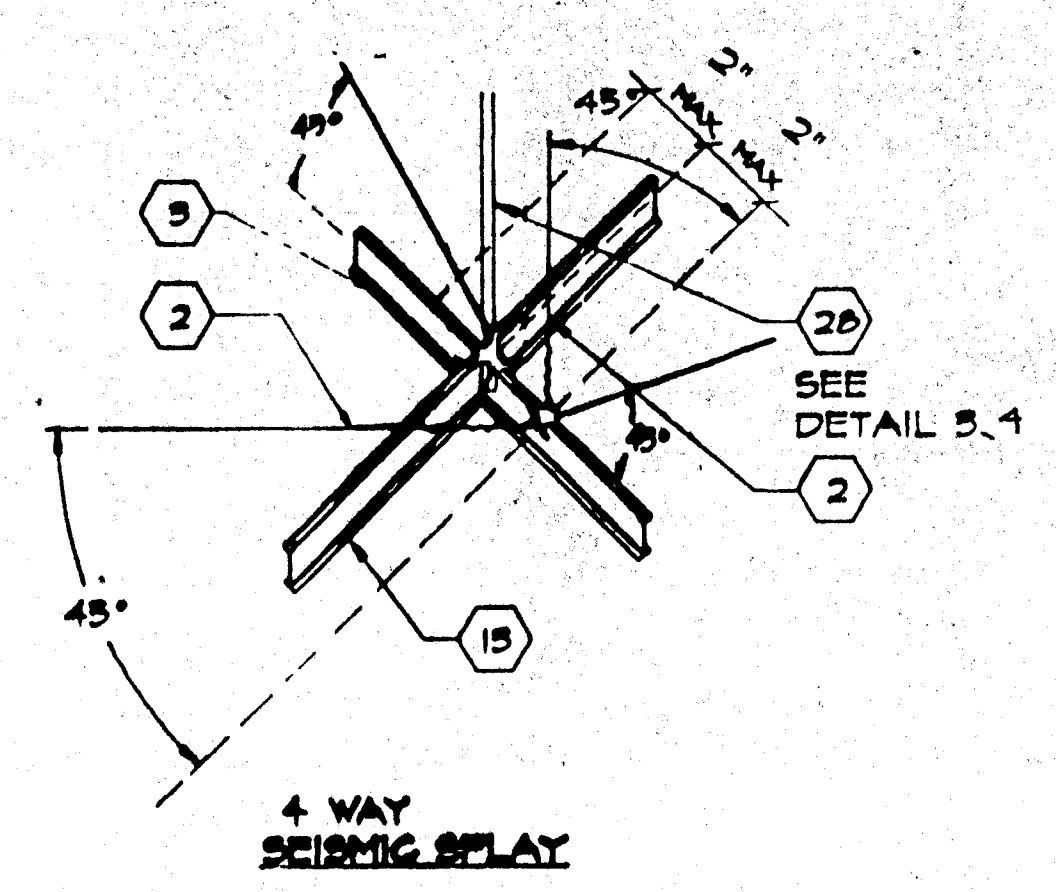
7



NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR, DEPENDING UPON CONDITION & LOCATION

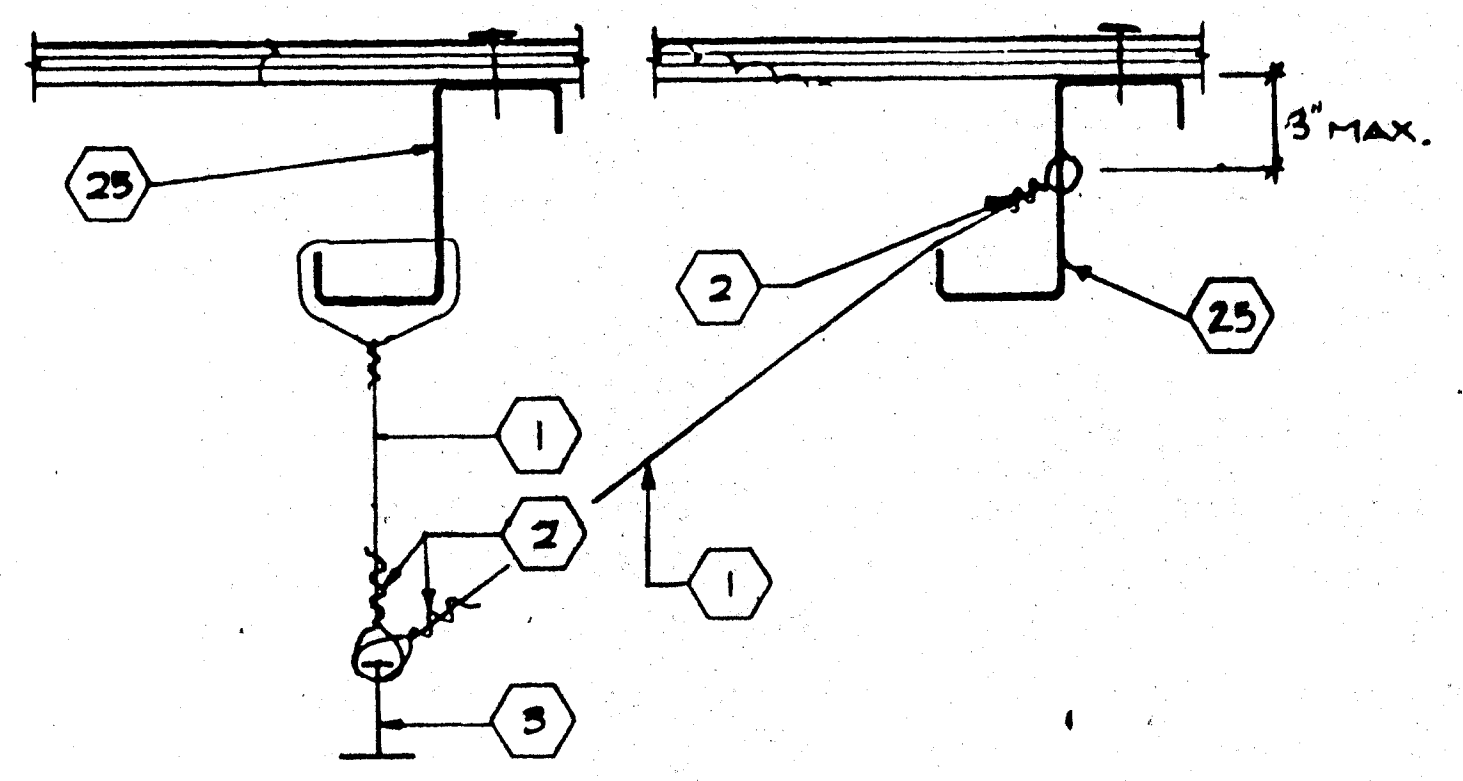
ALT. CONN. @ BOTTOM

4

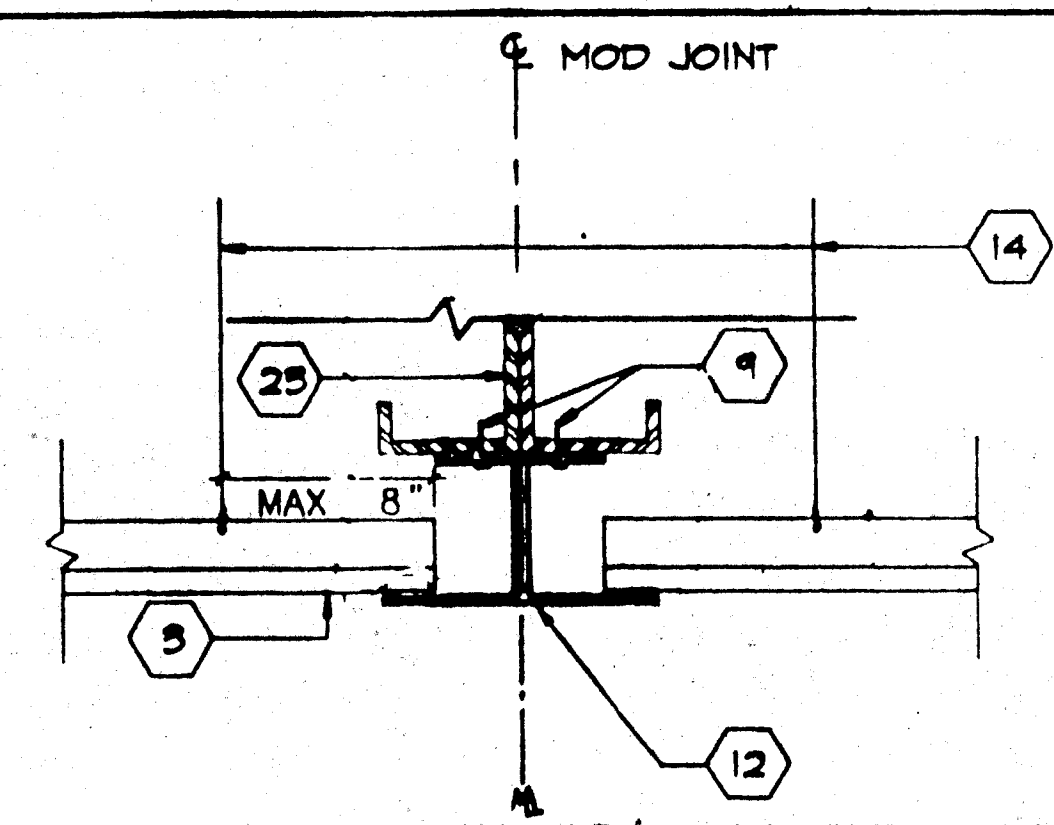


4 WAY SEISMIC SPLAY

1



5

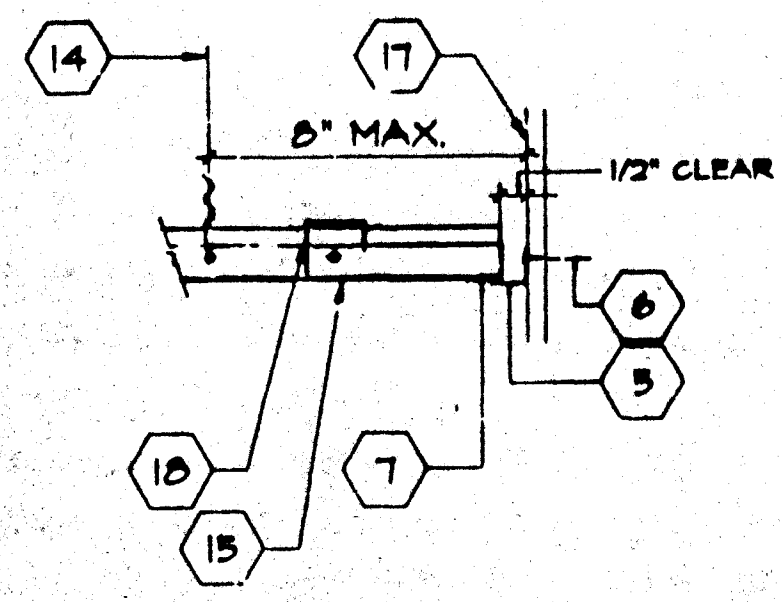
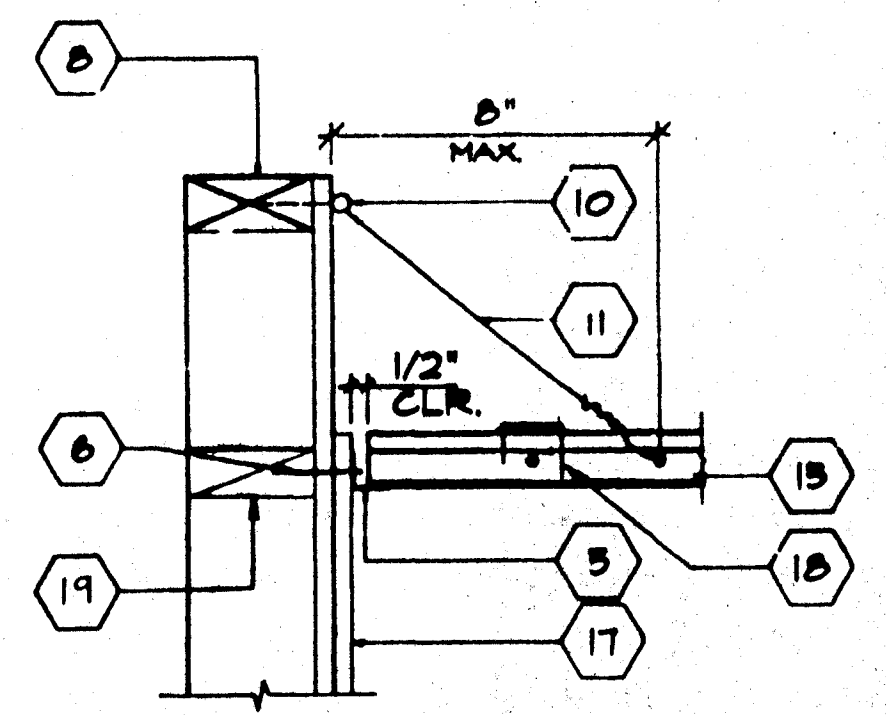


NOTE: LAY-IN CEILING TILE NOT SHOWN FOR CLARITY

GRID AT MOD LINE  
FREE SIDE

SCALE 5\"/>

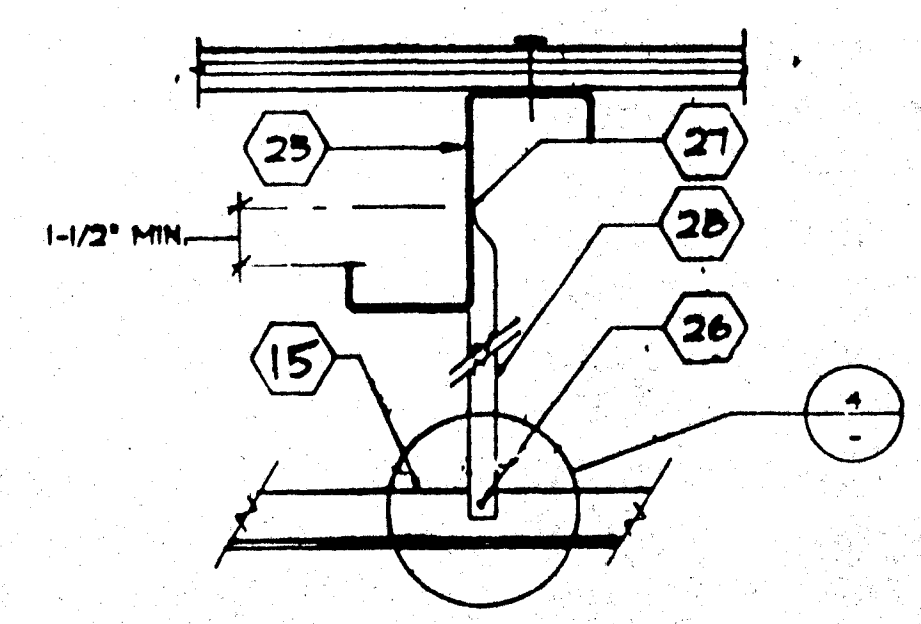
2



ALTERNATE

TYPICAL FREE SIDE

6

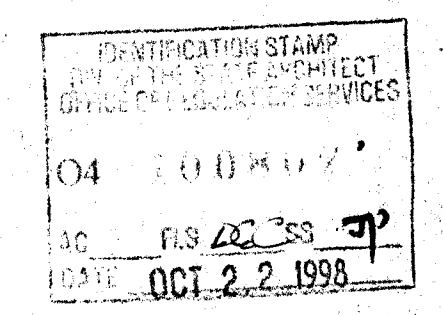


NOTE: CONDUIT MAY BE CRIMPED ON EITHER SIDE OF T-BAR DEPENDING UPON CONDITION & LOCATION

3

KEY NOTES

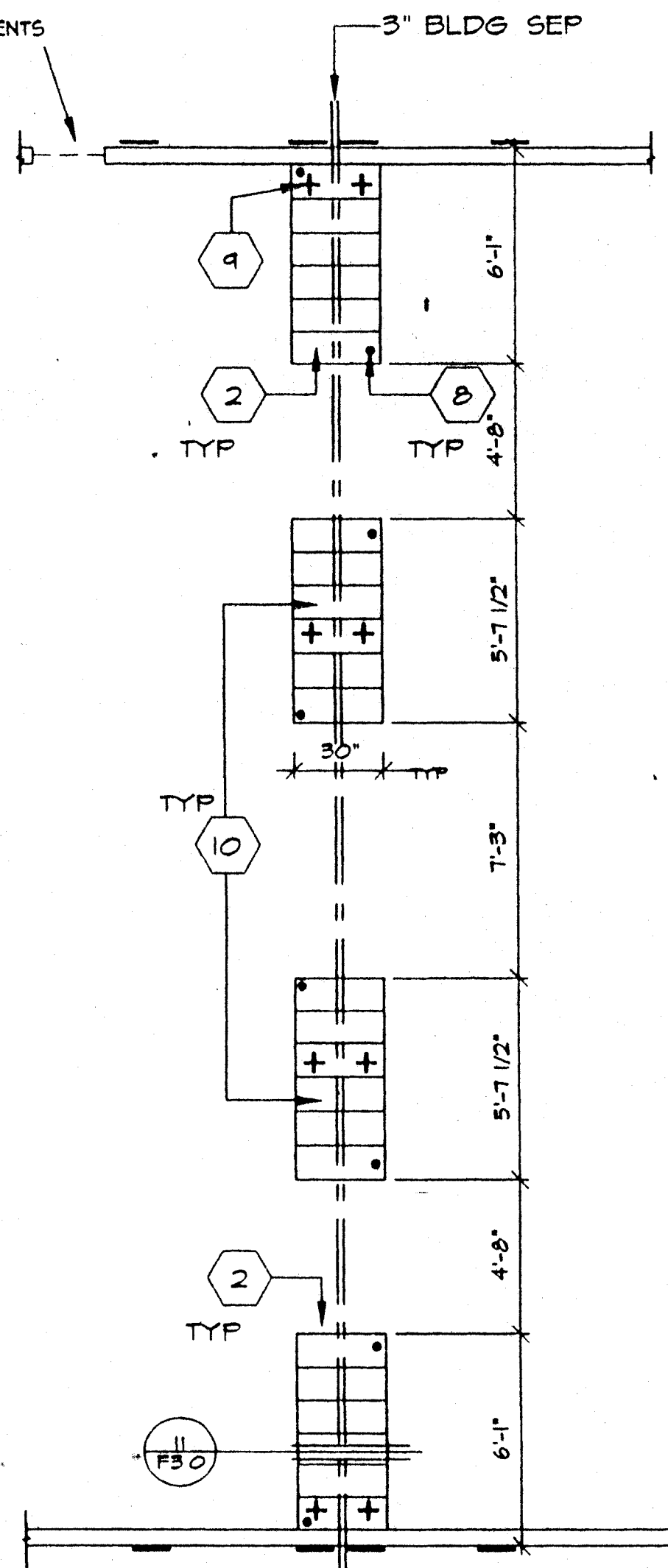
- 1 12GA HANGER WIRE IN PUNCHED OR DRILLED HOLE
- 2 12GA WIRE WITH 4 WRAPS IN 1 1/2" (TYP) WIRE TO RUN PERPENDICULAR TO MAIN TEE
- 3 MAIN RUNNER
- 4 1/8"Ø POP RIVET TO EACH T-BAR
- 5 WALL ANGLE
- 6 6d 16" Ø FRAMING TO HALL STUD
- 7 ANGLE WITH 1/8"Ø POP RIVET TO EACH T-BAR NO CONNECTION TO WALL ANGLE
- 8 TOP PLATE
- 9 #10 ST.SMS @ 4' OC
- 10 3"X1/4" EYED SCREW
- 11 HANGER TO WALL WHERE NO RAFTER ABOVE MAX SLOPE 1" IN 6"
- 12 28GA JETCOAT
- 13 CROSS TEE
- 14 12GA HANGER WIRE AT THE END ON EACH RUNNER MIN 4 WRAPS IN MAX 1 1/2" - SEE DETAIL #5 FOR WIRE TO PURLIN ATTACHMENT.
- 15 MAIN RUNNERS OR CROSS TEES
- 16 ACOUSTICAL BOARD
- 17 FINISH WALL
- 18 HORIZONTAL STRUTS SHALL RUN CONTINUOUS AT ALL PERIMETERS, NOT POP RIVETED TO THE WALL ANGLE USE 6d RING SHANK NAIL TO EA TEE
- 19 NOT USED
- 20 NOT USED
- 21 PROVIDE SPACE AT ALL MEMBERS AT OPPOSITE WALL
- 22 NOT USED
- 23 ROOF BEAM ☒ STR
- 24 NOT USED
- 25 ROOF PURLIN ☒ STR
- 26 CRIMP CONDUIT AND ATTACH TO T-BAR GRID W/Ø8 TEKSCREWS
- 27 CRIMP CONDUIT TO RAFTER W/2-Ø8 TEKSCREW
- 28 3/4" EMT CONDUIT - MAX 5'-2"
- 29 NOT USED



ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY	2961	REFLECTED CEILING DETAILS	A7.2



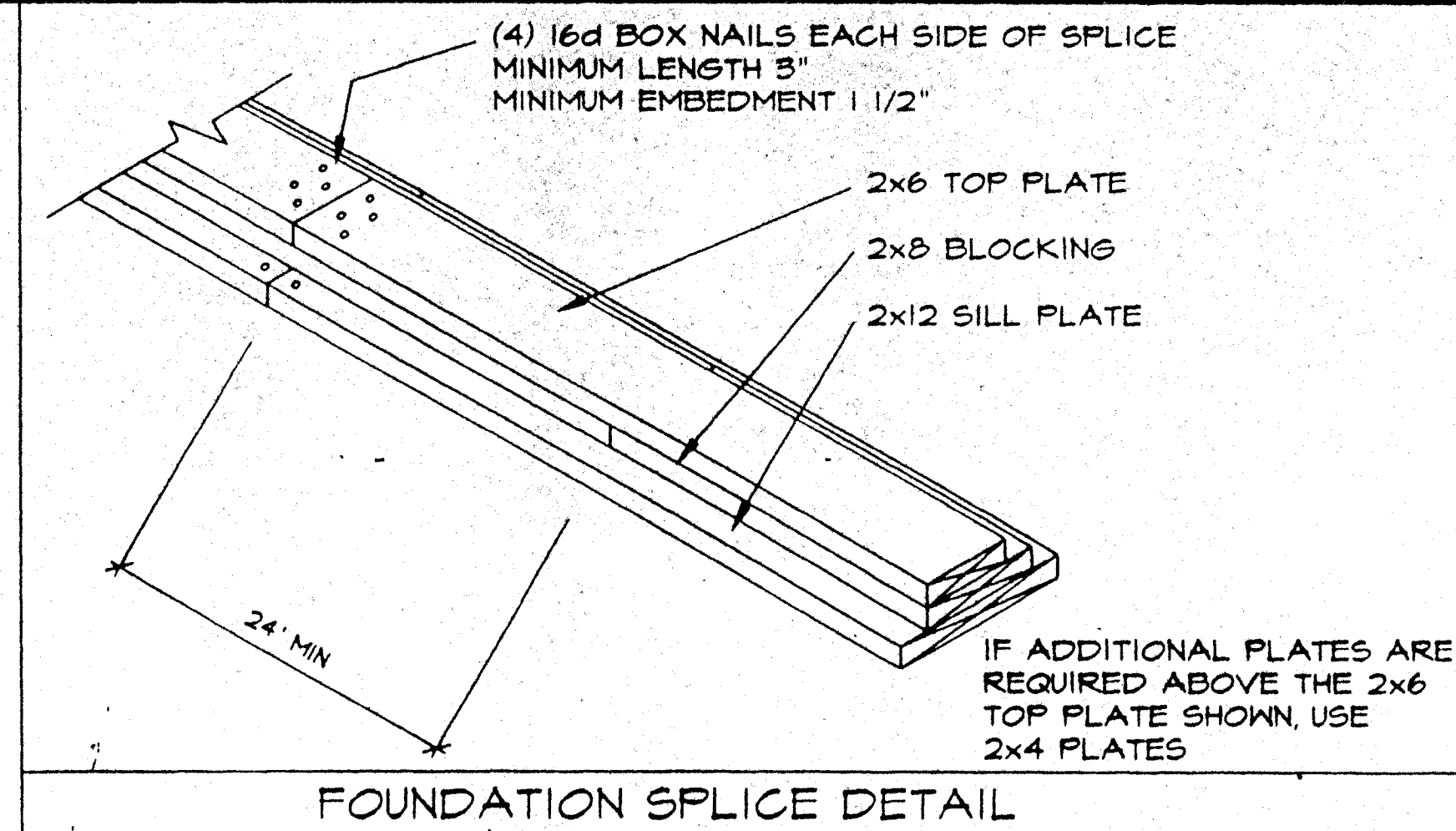
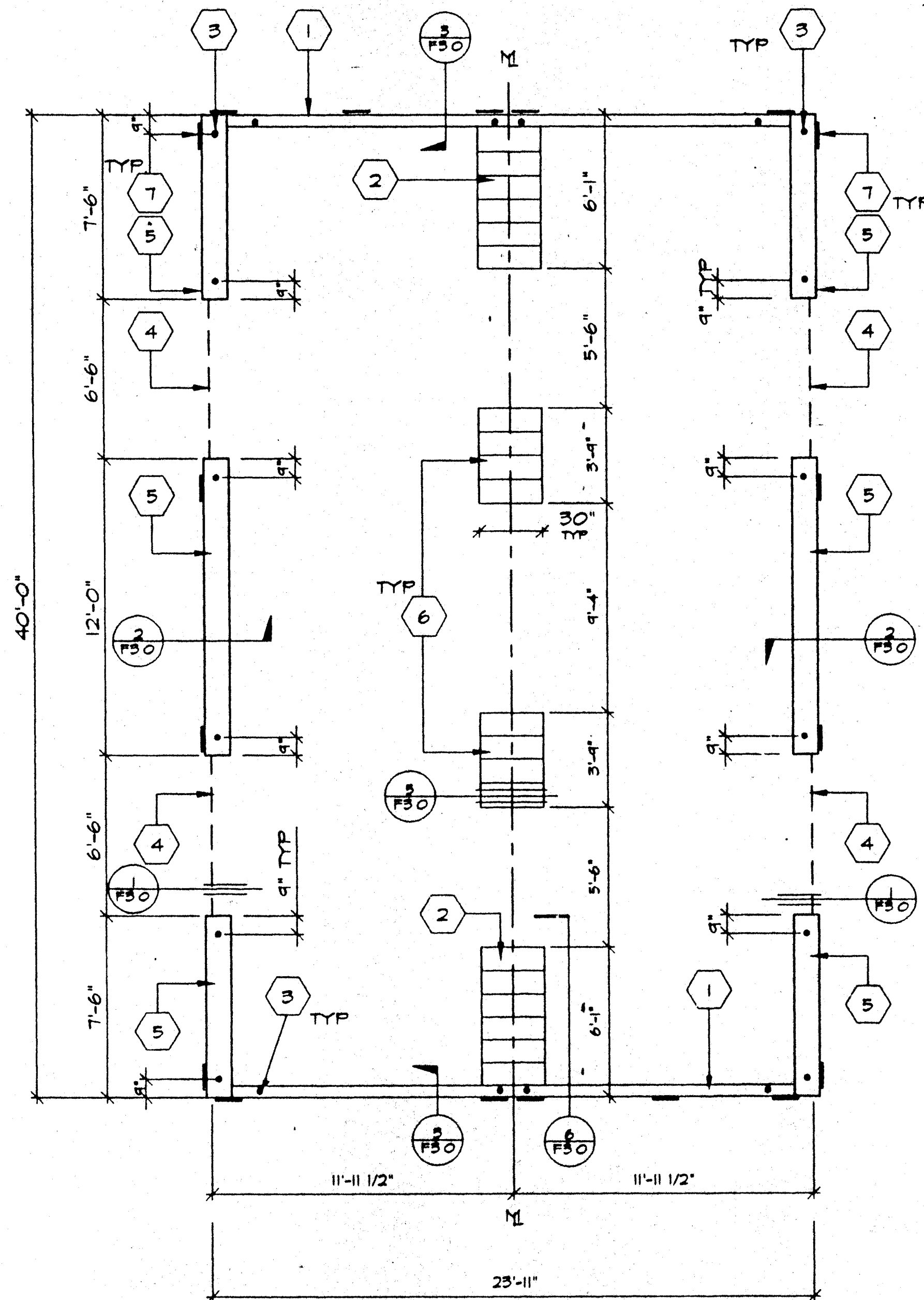
3" X 24" END WALL VENTS  
AS REQUIRED FOR ADJACENT  
BUILDING APPLICATIONS  
MIN 10" FROM BLDG CORNERS  
MIN 10" FROM MODLINES  
MIN 12" BLOCKING BETWEEN VENTS



PAD FTG'S AT ADJ BLDG

"MACHINE APPLIED 16d FASTENERS SHALL HAVE  
AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO  
SECOND MEMBER, AND SHALL BE NOT LESS THAN  
3" IN OVERALL LENGTH"

THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE  
FOR HAND NAILING, PROVIDED THE REQUIRED  
EMBEDMENT IS MAINTAINED

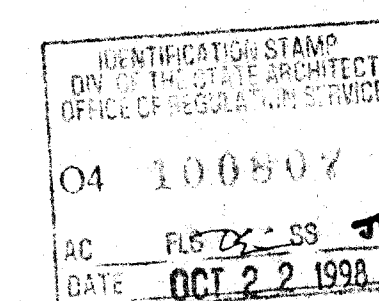


## KEY NOTES

- 1 2"x6" SILL PLATE (END WALL)
- 2 6- 2X12X30" LONG SILL PADS
- 3 PIPE TO GRADE (TYP)
- 4 3" HIGH BY 6'-6" LONG VENT
- 5 2X12 SILL PLATE (SIDE WALL)
- 6 4-2X12X30" LONG SILL PADS
- 7 6"X12"X10 GA PLATES
- 8 1" Ø PIPE EA END  
EA PAD AT ADJ BLDG LINE
- 9 5/8" Ø X4" LAG  
(4-PER BLDG MIN)
- 10 6- 2X12X30" LONG SILL PADS

## NOTES

- 1 SILL RESTRAINT: ON A.C. PAVING AND ON  
SOIL 1" O.D. GALVANIZED PIPE AT 10'-0"  
12" PENETRATION BELOW SURFACE  
VERTICALLY DRILL SILL 1-1/4" MAX  
PIPE MAY BE DRIVEN MAX OF 45° ANGLE  
TO VERTICAL (10'-1/2" LONG PIPE REQUIRED  
FOR PENETRATION AT 45° ANGLE)
- 2 ON CONCRETE PAVING HILTI DS B2-P10 THRU  
SILL PLATE  
END WALLS 8" O.C  
SIDE WALLS 22" O.C
- 3 WHERE SHIM STOCK IS REQUIRED  
FOR LEVELING USE 1/4", 1/2", OR 3/4"  
THICK PLYWOOD SAME WIDTH AS BLOCK P.T
4. VERIFY DRAINAGE, TO PREVENT WATER  
FROM PONDING BENEATH THE STRUCTURE,  
WITH DISTRICT ARCHITECT SITE PLANS
5. ALL FOUNDATION MATERIAL SHALL BE  
HEM FIR  
GROUND CONTACT: LP-22 (CCA 40)  
ABOVE GROUND: LP-2 (CCA 25)
- 6 FOUNDATION DESIGNED FOR 1000  
PSF SOIL BEARING PRESSURE  
PER ORS IR 23-6  
ABOVE GROUND: LP-2



## VENT CALCS.

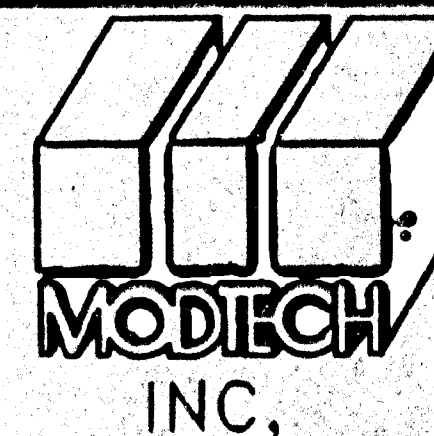
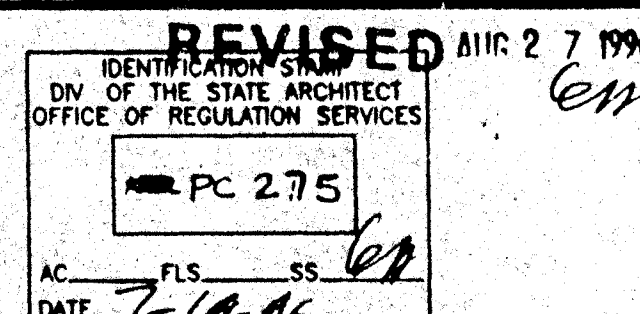
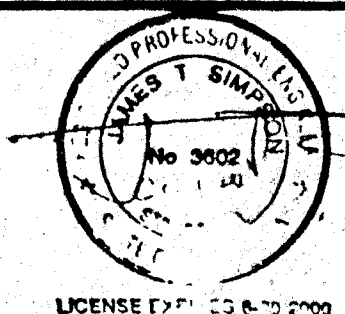
BLDG SIZE 24' X 40' = 960 □  
VENTILATION REQ'D 960 ÷ 150 = 6.4 □  
3" X 6'-6" VENT = 1625 □  
4 VENTS X 1625 □ = 65 □  
65 □ > 6.4 □

## FOUNDATION (WOOD SILL)

24 x 40 - 50 PSF LL

SCALE 1/4"=1'-0"

REVISIONS	ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
△					
△					
△					
△					
△					
△					



MODTECH INC.  
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PERRIS, CA. 92572  
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FX (909) 940-0427

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JOB NO 2961

DRAWN BY  
DATE  
CHECKED BY  
DATE

FOUNDATION PLAN

FO. 1



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

⑥ SCALE 1 1/2"=1'-0"

10 SCALE: 1 1/2" = 1' - 0"  
ADD BLK'S/SHIMS TO LEVEL FOUND.

7 SCALE 1 1/2"=1'-0" FOUNDATION ELEVATION @ SIDE WALL

(OPTIONAL)

11 SCALE: 1 1/2" = 1'

FOUND. AT ADJ. BLDG

⑧ SCALE, 3"=1'-0"  
TYPICAL TIE PLATE

③ SCALE 3"=1'-0"

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

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

TYPICAL @  
SIDE WALLS

Diagram illustrating the typical cross-section of side walls, showing structural details and components labeled with callouts:

- 19: Top reinforcement bar.
- 21: Top reinforcement bar.
- 7: Top reinforcement bar.
- 14: Vertical reinforcement bar.
- 10: Vertical reinforcement bar.
- 15: Vertical reinforcement bar.
- 9: Vertical reinforcement bar.
- 17: Foundation or base layer.
- CONT TOP PLATE: Continuous top plate.
- SILL PL & BLK'G BEYOND: Sill plate and blocking beyond the wall.

1 SCALE NTS  
FOUNDATION VENT

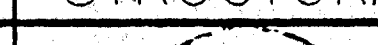
② SCALE 3"=1'-0"

## KEY NOTES

- 1 2X12 SILL PLATE SEE FOUND PLAN FOR LENGTH
- 2 2X8 BLOCKING W/16d @MAX 5" O C TO SILL PLATE
- 3 2X6 TOP PLATE W/16d @MAX 5" O C TO BLOCKING
- 4 2X4 TOP PLATE W/16d @ MAX 5" O C TO BLOCKING
- 5 2X4 BLOCKING W/16d MAX 5" O C TO SILL PLATE
- 6 2X6 SILL PLATE SEE FOUND PLAN FOR LENGTH
- 7 5/8"X2 1/2" SHIM (WHEN REQ )
- 8 INSERT REQ'D 2X4 BLK'NG OR PLYWD SHIM W/16d @ 12" O C FACE NAIL
- 9 OPTIONAL - MIN 3/8" PLYWOOD SHIRTING W/ 10d @ MIN 4" O C @ ENDWALLS & 6" O C @ SIDEWALLS E N & TYP 12" O C FN PLATE TO PLATE NAILING FOR THE FOUNDATION MEMBERS CAN BE DECREASED TO 12" O C AND FOUNDATION BLOCKING SHALL BE RECESSED SUCH THAT THE SKIRTING SHALL BE INSTALLED FLUSH WITH THE PERIMETER FLOOR CHANNEL
- 10 10d GALV NAIL @ MAX 4" O C
- 11 2X12X2'-6" SILL PLATE SEE FOUND PLAN FOR QUANTITY REQ'D
- 12 2 X 10 PLATES W/ 2-16D BOX @ 6" O C
- 13 2X10 BLK'NG FACE OR TOE NAIL 16d @ MAX 12" O C ADD BLKS OR SHIMS AS REQ'D
- 14 FLOOR FRAME BEAM SEE STRUCTURAL
- 15 TYPICAL FOUNDATION VENT (SEE FOUNDATION PLAN FOR SIZES AND LOCATIONS)
- 16 SILL RESTRAINT 1" Ø PIPE SEE FOUND FOR LOCATION
- 17 FINISH GRADE
- 18 EXTERIOR FINISH
- 19 PLYWOOD SUBFLOOR
- 20 MOD-LINE
- 21 FLOOR-JOIST
- 22 4"X12"X10 GA PLATE
- 23 6"X12"X10 GA PLATE
- 24 1/4" Ø STS TYP 4-PLACES
- 25 1/4" Ø X3" LG LAG SCREW TYP 4-PLACES
- 26 5/8" ØX4" LAGS (FOR LOCATION SEE PLAN)

FOUNDATION LUMBER TO BE PRE-CUT AT  
FACTORY LUMBER GRADES & PRESSURE TREATING  
TO BE VERIFIED BY THE IN-PLANT INSPECTOR

IDENTIFICATION STAMP  
 DIVISION OF INVESTIGATION  
 OFFICE OF REGISTRATION SERVICES  
 04 100807  
 NO FLS SS **JP**  
 0491 OCT 22 1998

REVISIONS		ELECTRICAL	MECHANICAL	STRUCTURAL	ARCHITECT	DIVISION OF THE STATE ARCHITECT
1						<p><b>REVISED</b> <i>W</i></p> <p>IDENTIFICATION SYMBOL DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICE</p> <p>PC-275</p> <p>AC. FLS. SS. <i>64</i></p> <p>DATE <i>7-19-71</i></p>
2						
3						
4						
5						
6						

**MODETECH**  
INC.

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2830 BARRETT AVE  
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FX (909) 940-0427

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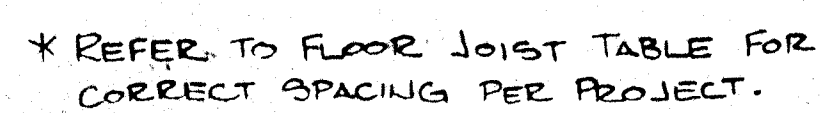
JOB NO 2961	DRAWN BY
	DATE
	CHECKED BY
	DATE
FOUNDATION DETAILS	
F3.0	



LIVE LOAD	$\int 6 \text{ 3/8"} \times 2 \text{ 1/2"} \times 12 \text{ GA}$	STIFFENED FLOOR OPTION
30 PSF	48" OC	24" OC

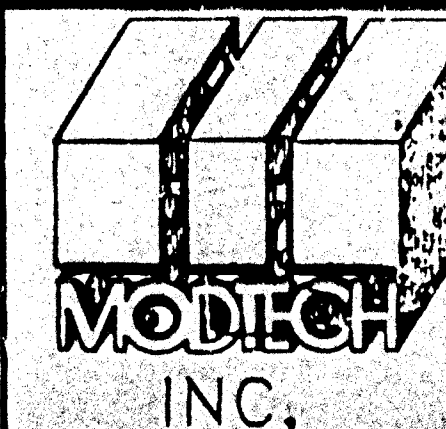
- 1 6 3/8" X 2 1/2" X 12GA BLOCK WG AT MIDSPAN OF FLOOR HDR TYPICAL
- 2 5 5/8" HAND HOLES AT BOLT 5M TO 6M "12 PLACES"
- 3 2 TWO 8 PEE METER CHANNEL (TYPICAL)
- 4 PLYWOOD FLOOR SHEATHING  
APA PS 1-83 1 1/8" THICK STURD-1 FLOOR  
N 48 OC SPAN RATING ATTACHED W 8" C  
X 1 3/4" SELF-TAPPING FLAT HEAD SCREWS  
AT 6" OC TO PERIMETER TRAVE, APPROX 1/4"  
AKN 1440 "5 DRIVE PWS AT 6" OC  
SUPPORTED EDGES AND 6" OC FIELD TO  
JOIST TYPICAL
- 5 6 3/8" X 2 1/2" X 12GA FLOOR PURLIN  
@ 48 OC
- 6 TYPICAL BOLT HOLE LOCATION  
(SEE)
- 7 1/2" HOLE @ MIDBRIGHT OF C7 X 7 A  
FOR MATERIAL HANDLING

1. FOR L.HAND & R.HAND FRAME SEE S.I.O



SCALE 1/4"=1'-0"

PC 275  
CNA  
210 1 1 1973



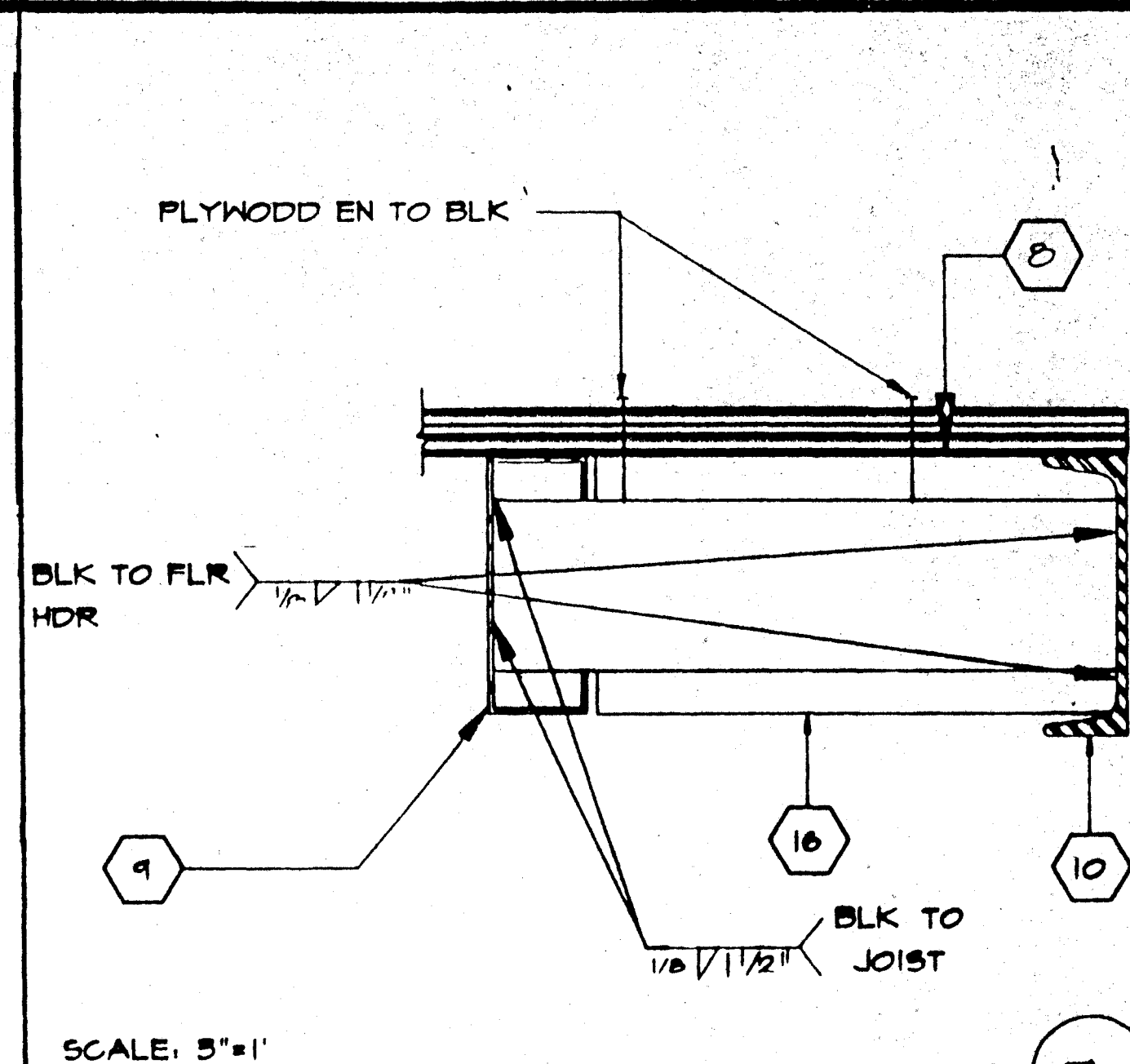
2961

0 100-100 10 00

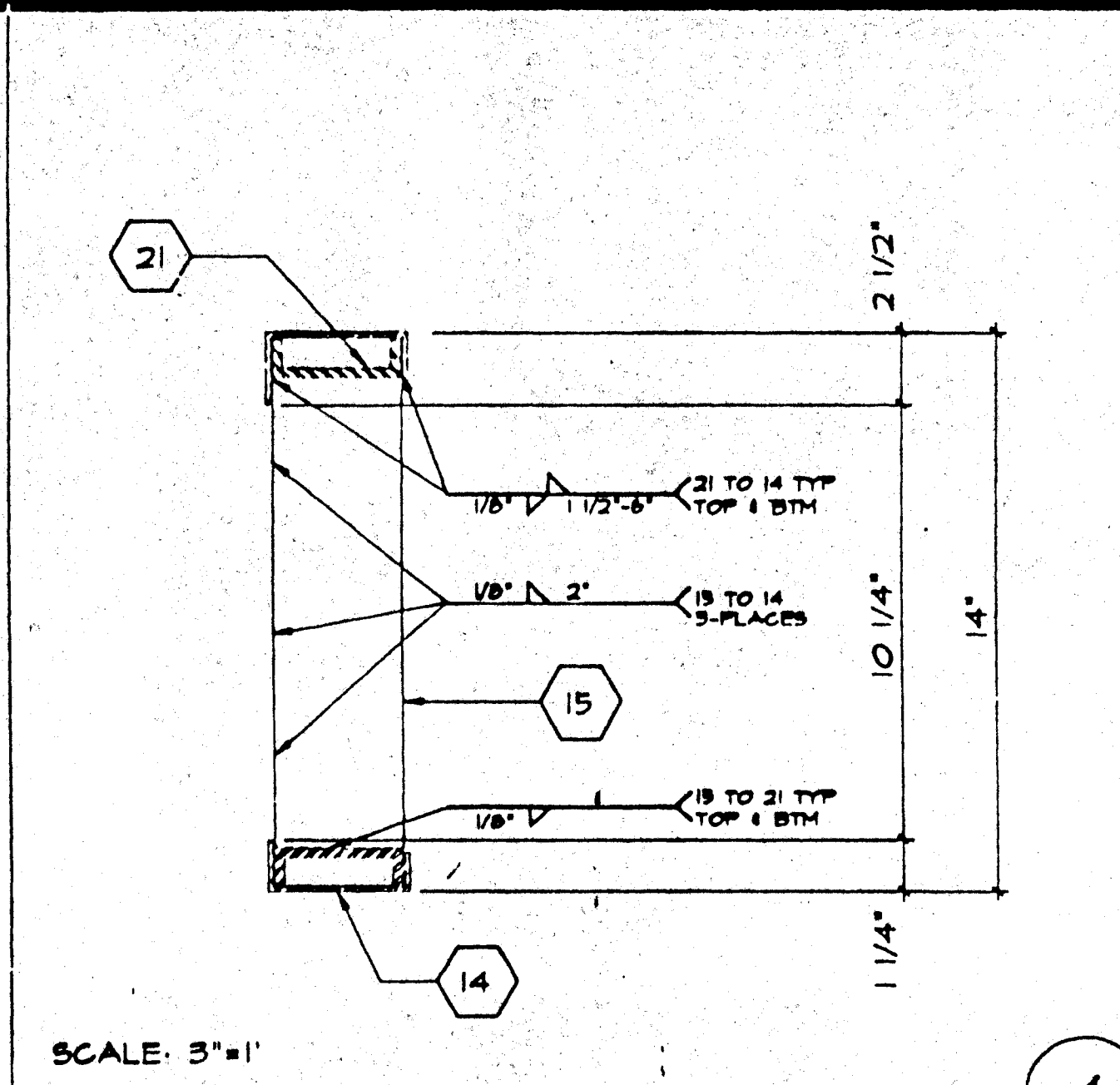
DAY IN  
 DAY  
 CHOCOLATE  
 DAY  
 30# 4-

FLOOR FRAMING PLAN S 1.0

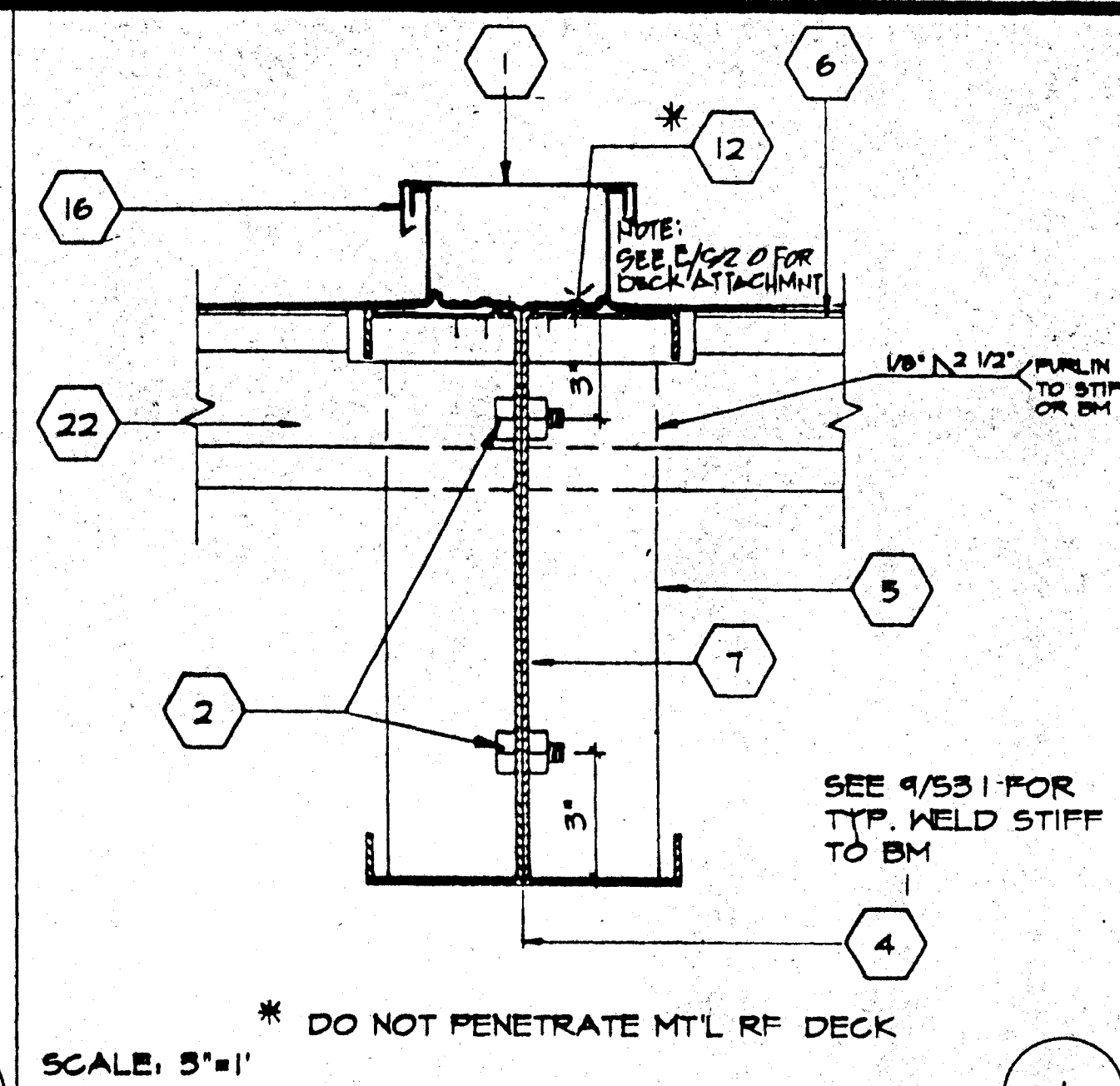




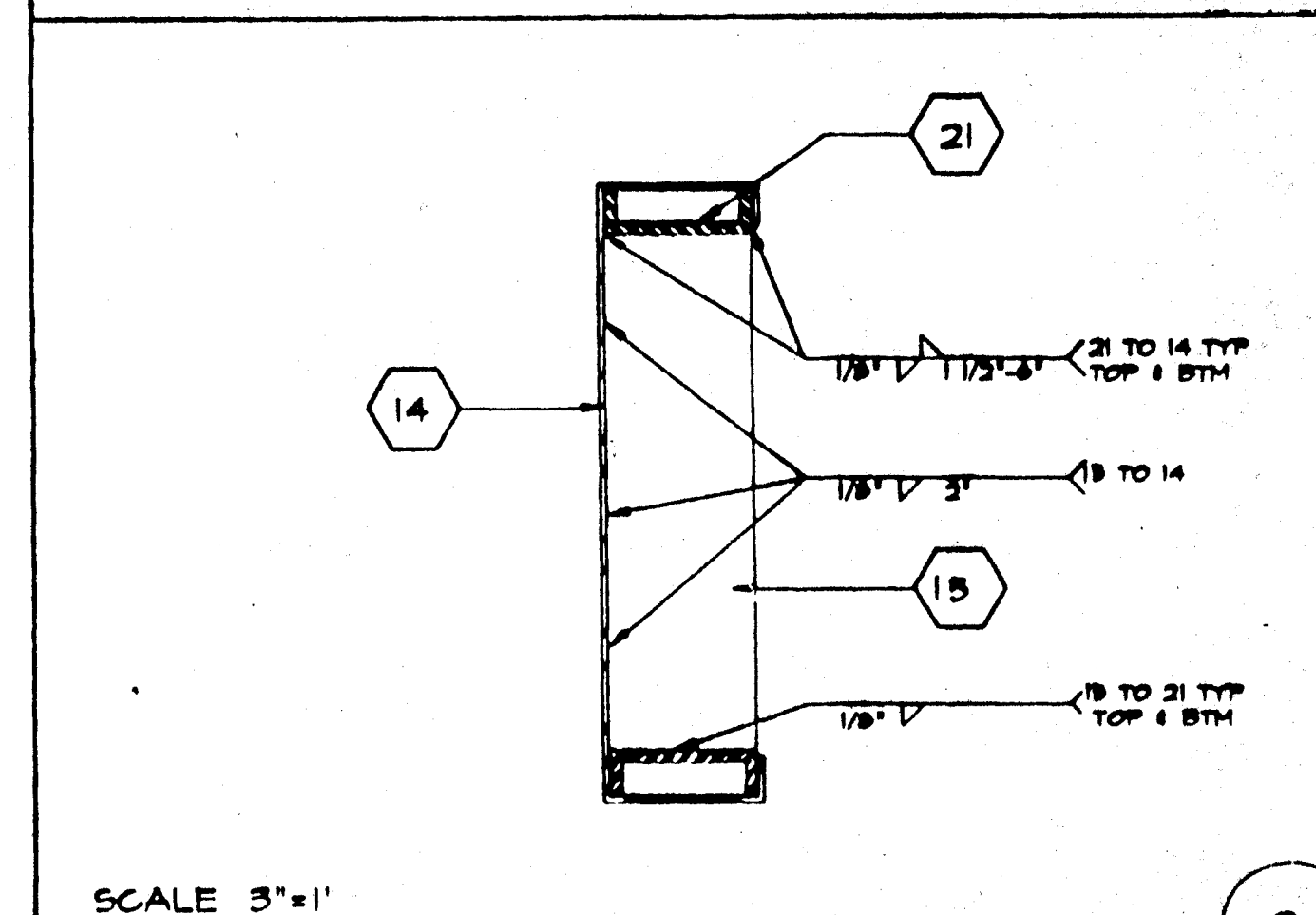
BLOCK @ MIDSPAN



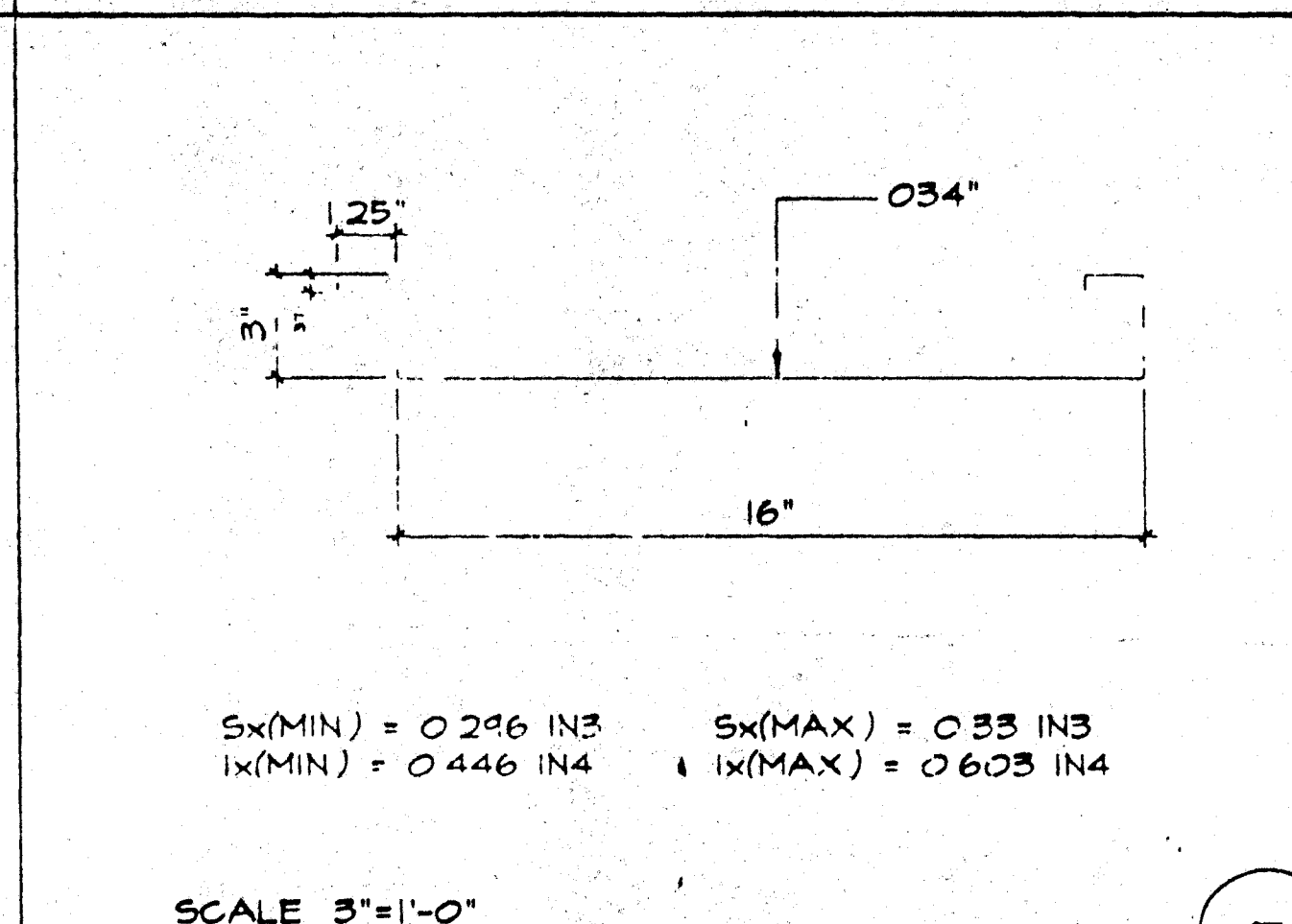
MECH. DUCT OPENING IN HEADER



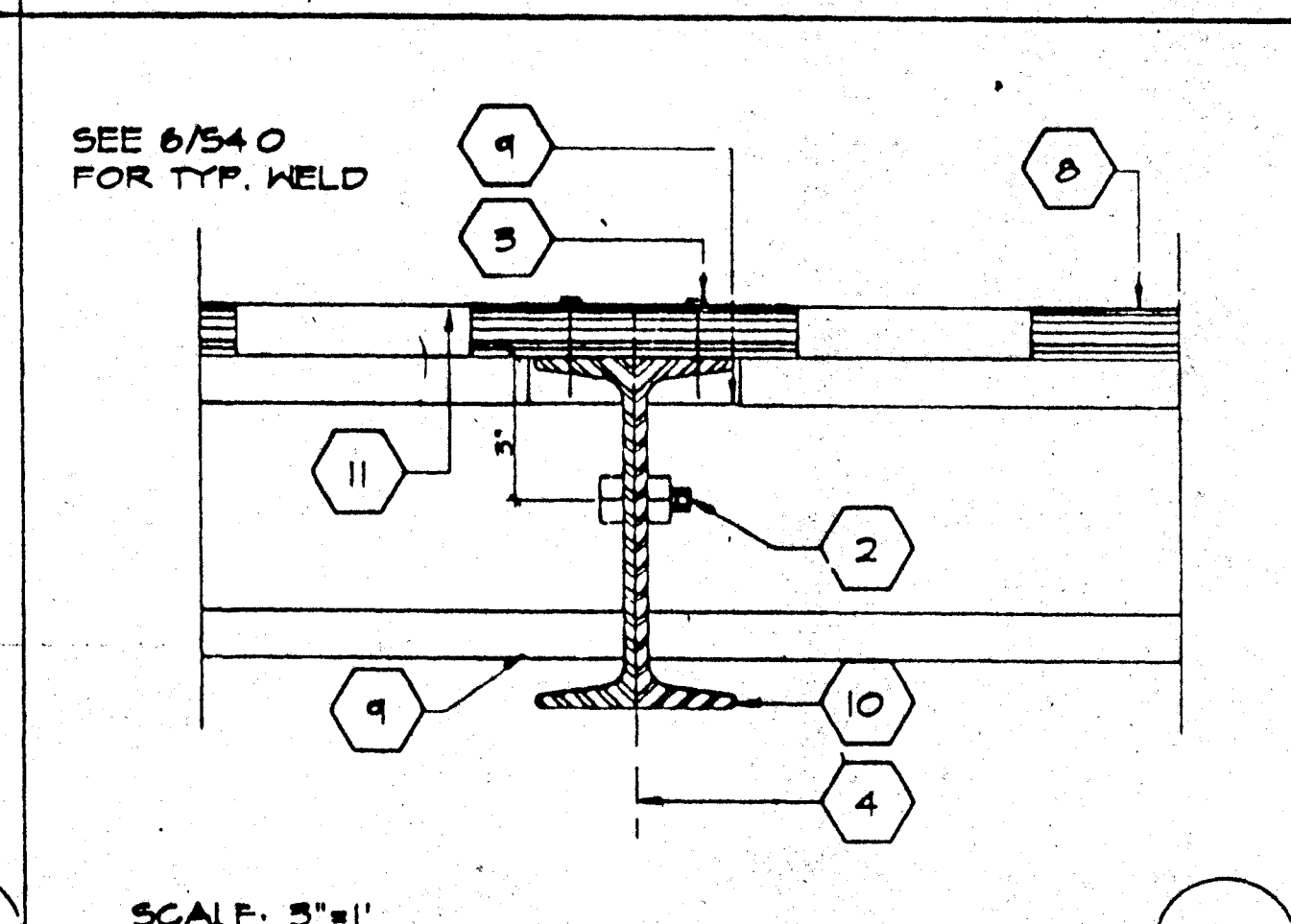
ROOFING @ MODLINE



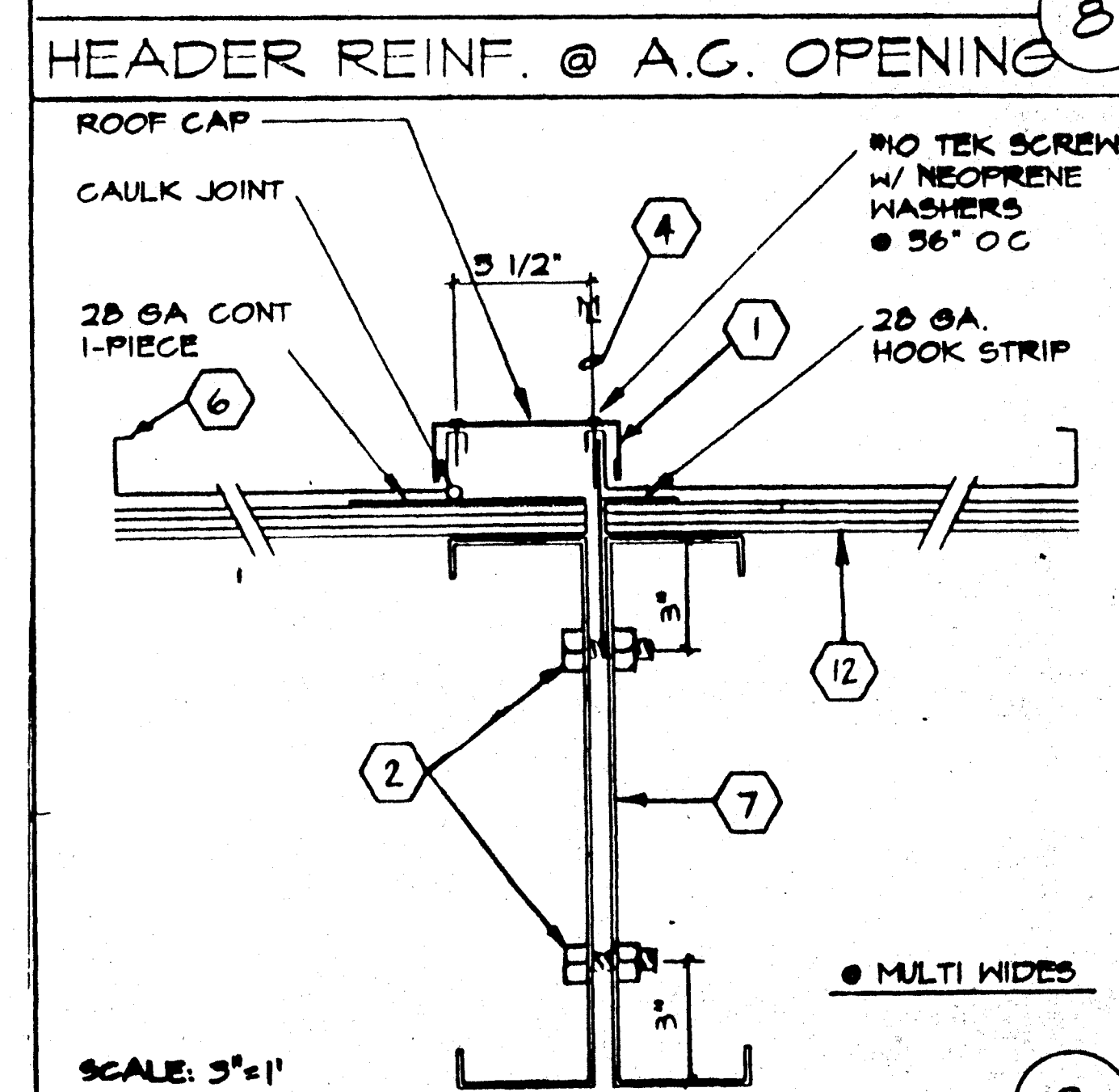
HEADER REINF. @ A.C. OPENING



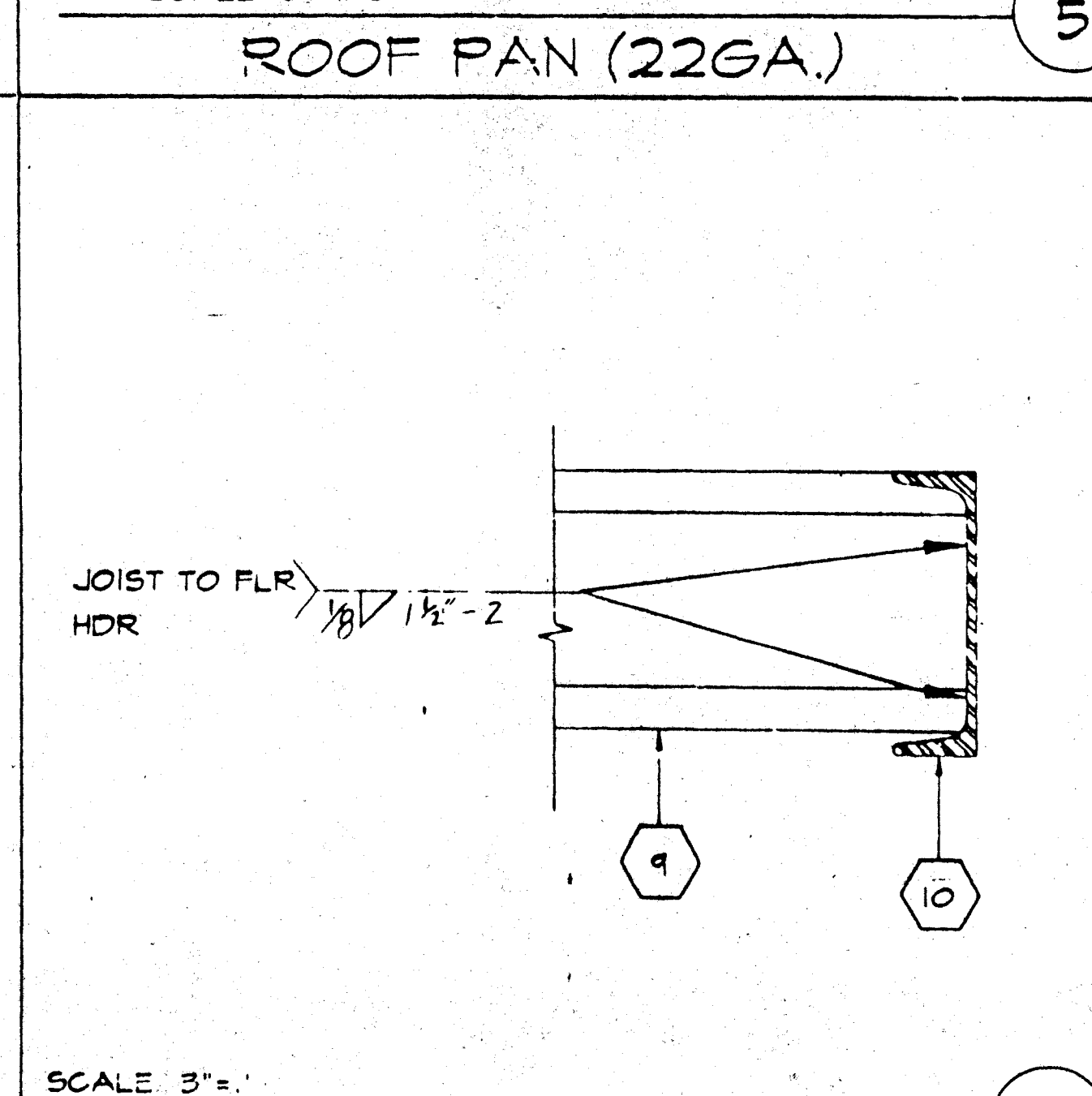
ROOF PAN (22GA.)



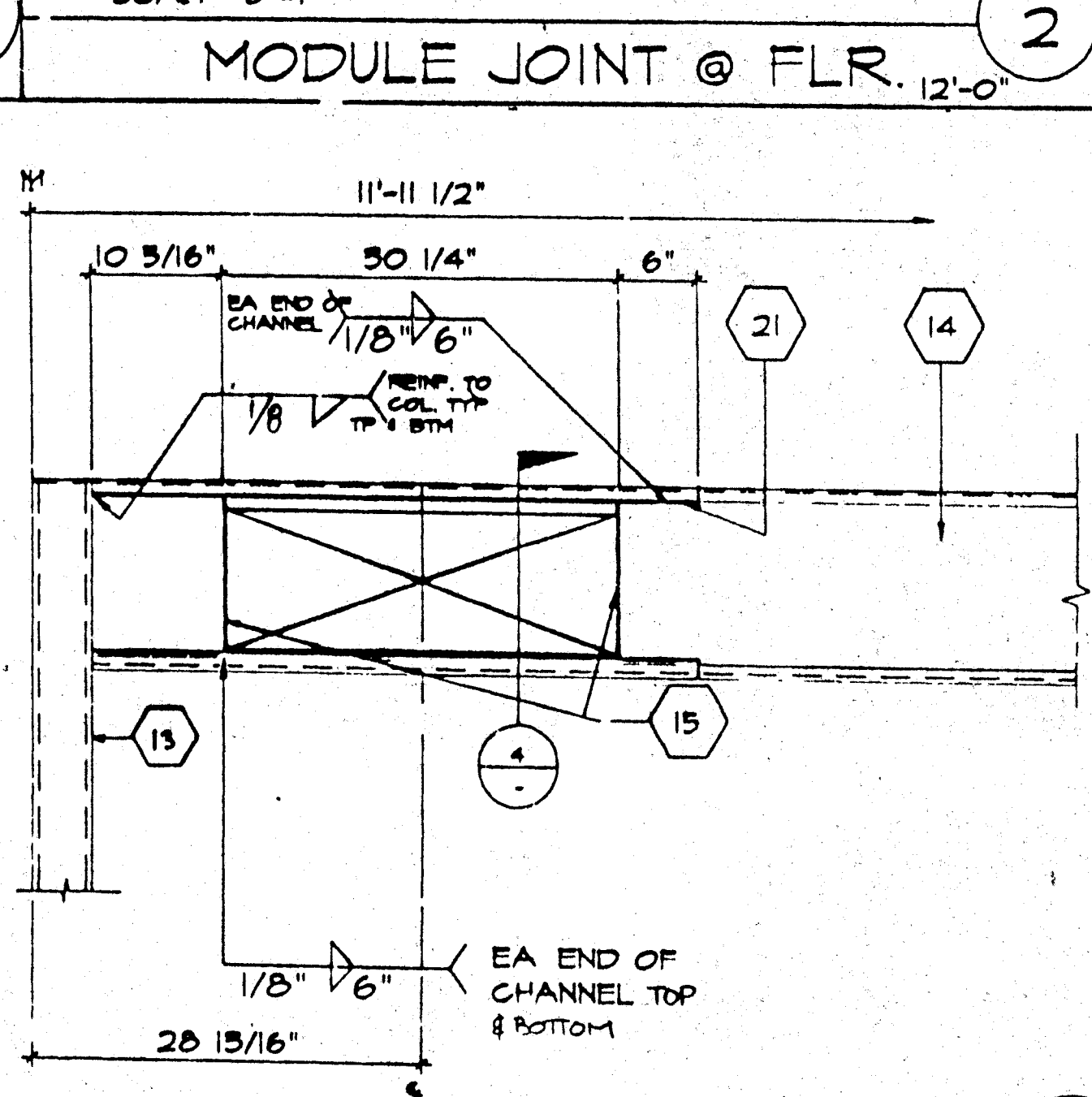
MODULE JOINT @ FLR. 12'-0"



ALT. ROOFING @ MODLINE



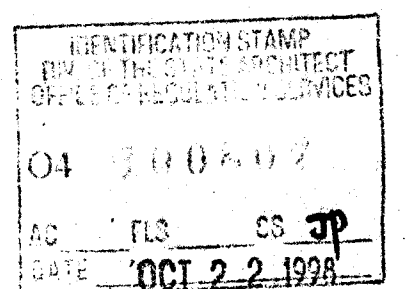
FLOOR FRAME/JOIST TO BEAM



ELEVATION-OPENING

# KEY NOTES

- 1 CAP-CLOSURE @ MODLINE 26GA. GALV W/10 TYPE FASTENERS W/NEOPRENE WASHERS TO RIB BOTH SIDES OF MODLINE SET CAP IN SEALANT
- 2 5/8" MB A307 MODULE JOINT (SEE STRUCTURAL PLAN FOR LOCATION) @ 8" OC
- 3 EN
- 4 MODULE JOINT
- 5 1/4" @ 8" OC FULL DEPTH STIFFENER PLATE (SEE 4/52 I)
- 6 STANDING SEAM ROOF (SEE A2 O)
- 7 ROOF BEAM (SEE STRUCTURAL) SEE 3/52 I & 12/52 I
- 8 PLYWOOD FLOOR SHEATHING
- 9 FLOOR JOIST 6/52 I
- 10 FLOOR BEAM (SEE STRUCTURAL 5/52 I)
- 11 HAND-HOLE @ BOLT LOCATION
- 12 #14 STMS
- 13 3 1/2"x3 1/2"x1/4" STEEL TUBE COLUMN
- 14 ROOF HEADER (SEE STRUCTURAL 1/52 I)
- 15 1/4" STIFFENER PLANE SEE 4/52 I FOR TYP. WELL
- 16 CAP CLOSURE AT RIDGE 26GA. GALV W/10 STSM. AT 48" OC W/NEOPRENE WASHER TO RIB SET BOTH SIDES OF CAP IN SEALANT
- 17 NOT USED
- 18 NOT USED
- 19 NOT USED
- 20 2"x2"x3/16" L
- 21 3 1/4"x1"x45 11/16" LX10GA CHANNEL TOP & BOTTOM CENTER OF OPENING
- 22 ROOF PURLIN SEE 2/52 I
- 23 TUBE STEEL (SEE NOTE #3)



ARCHITECT

ELECTRICAL

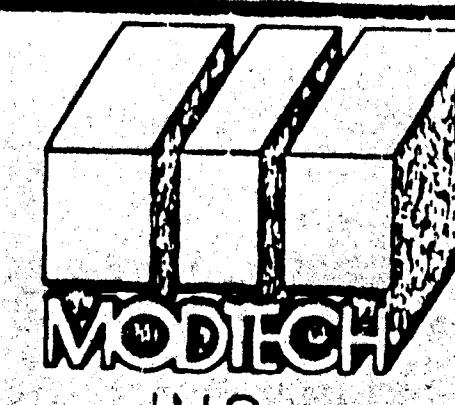
STRUCTURAL

MECHANICAL

FIRE MARSHAL

ACCESS COMPLIANCE

STRUCTURAL SAFETY



2961

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DATE  
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DATE

S1.2

STRUCTURAL DETAILS

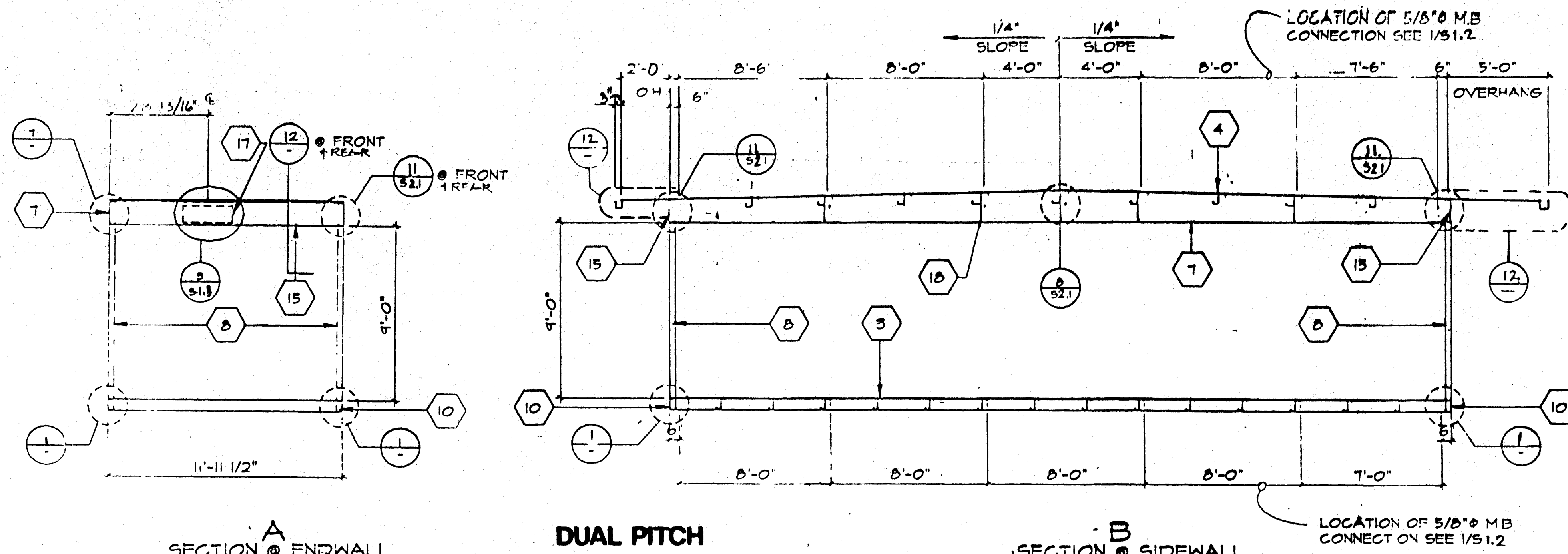






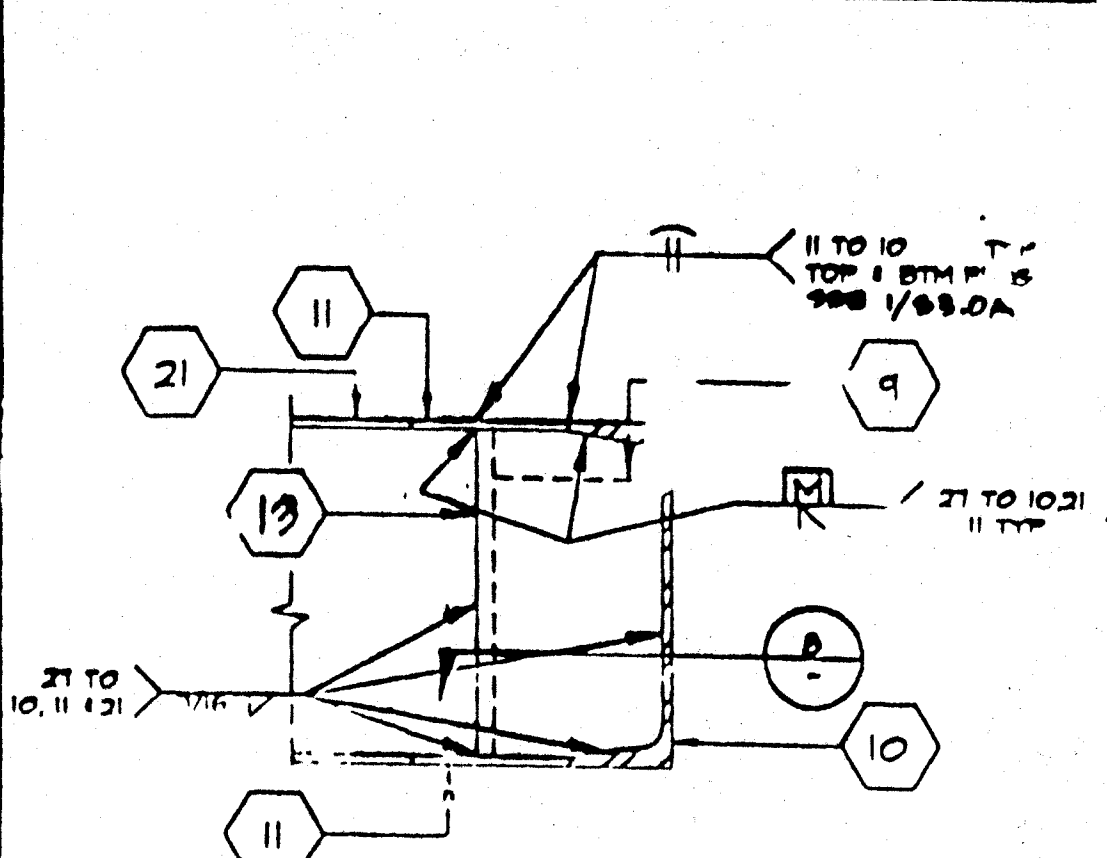
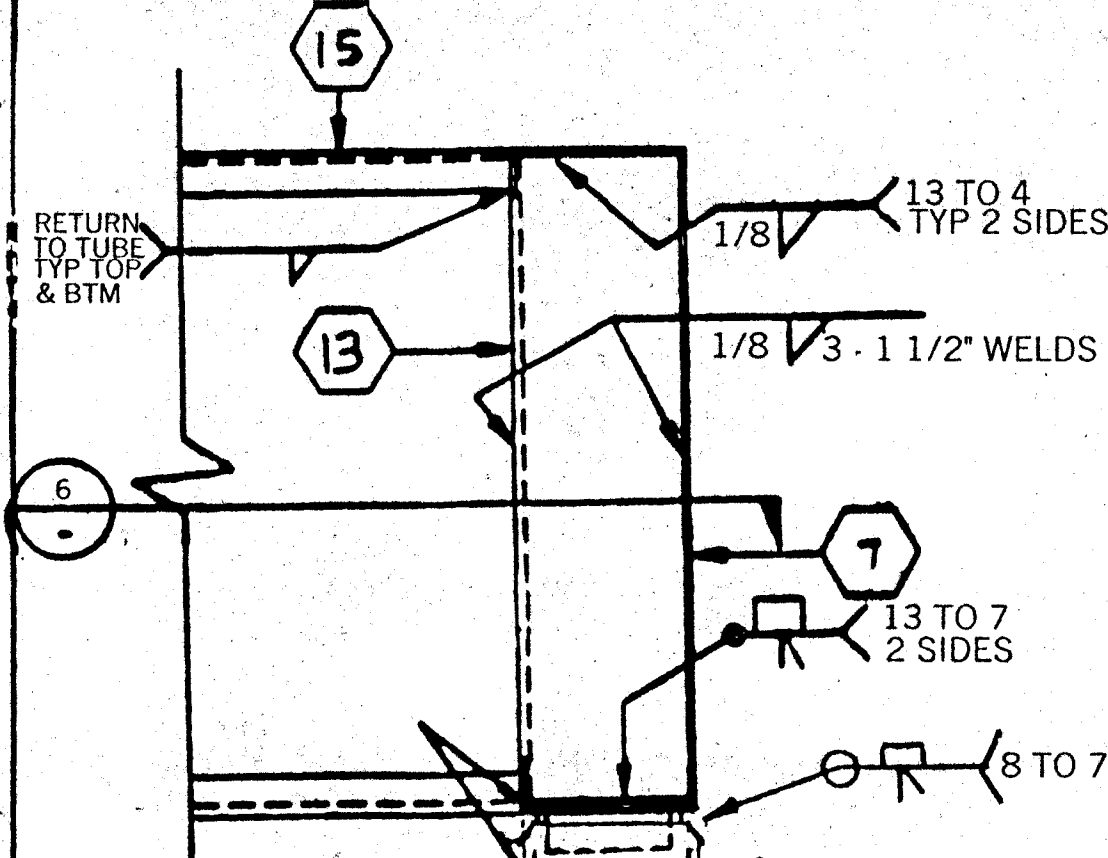
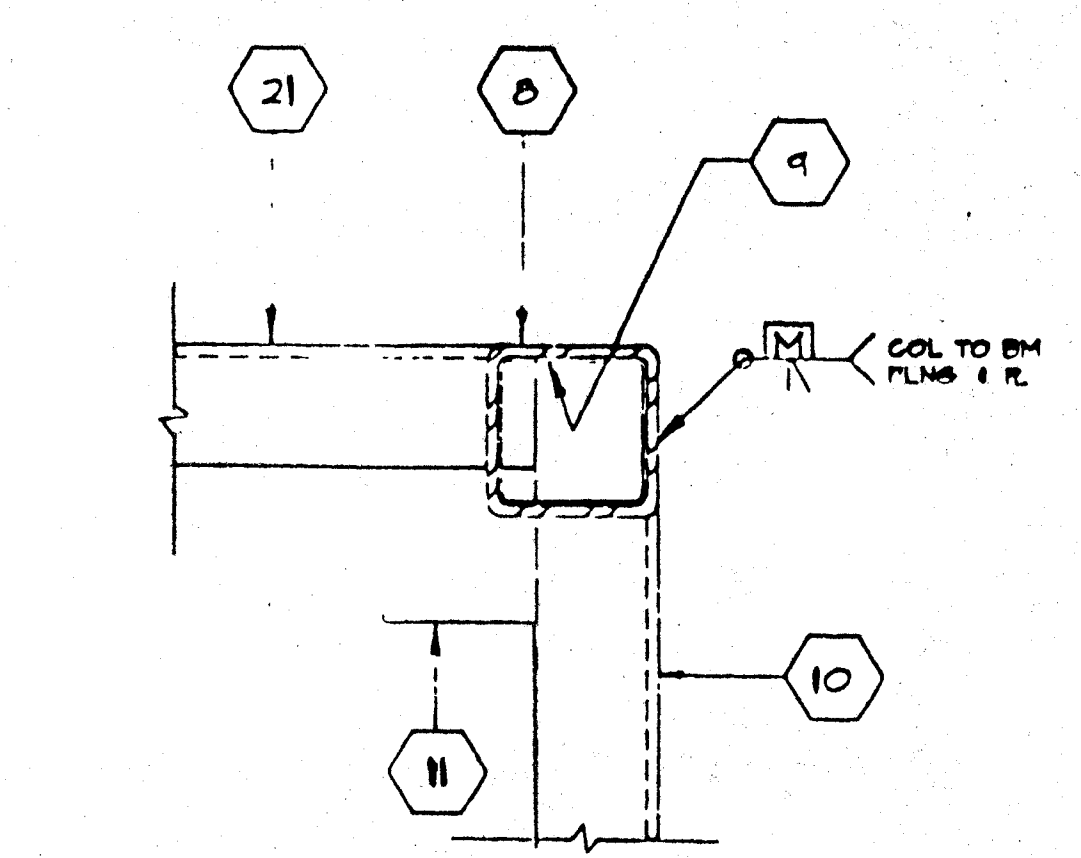
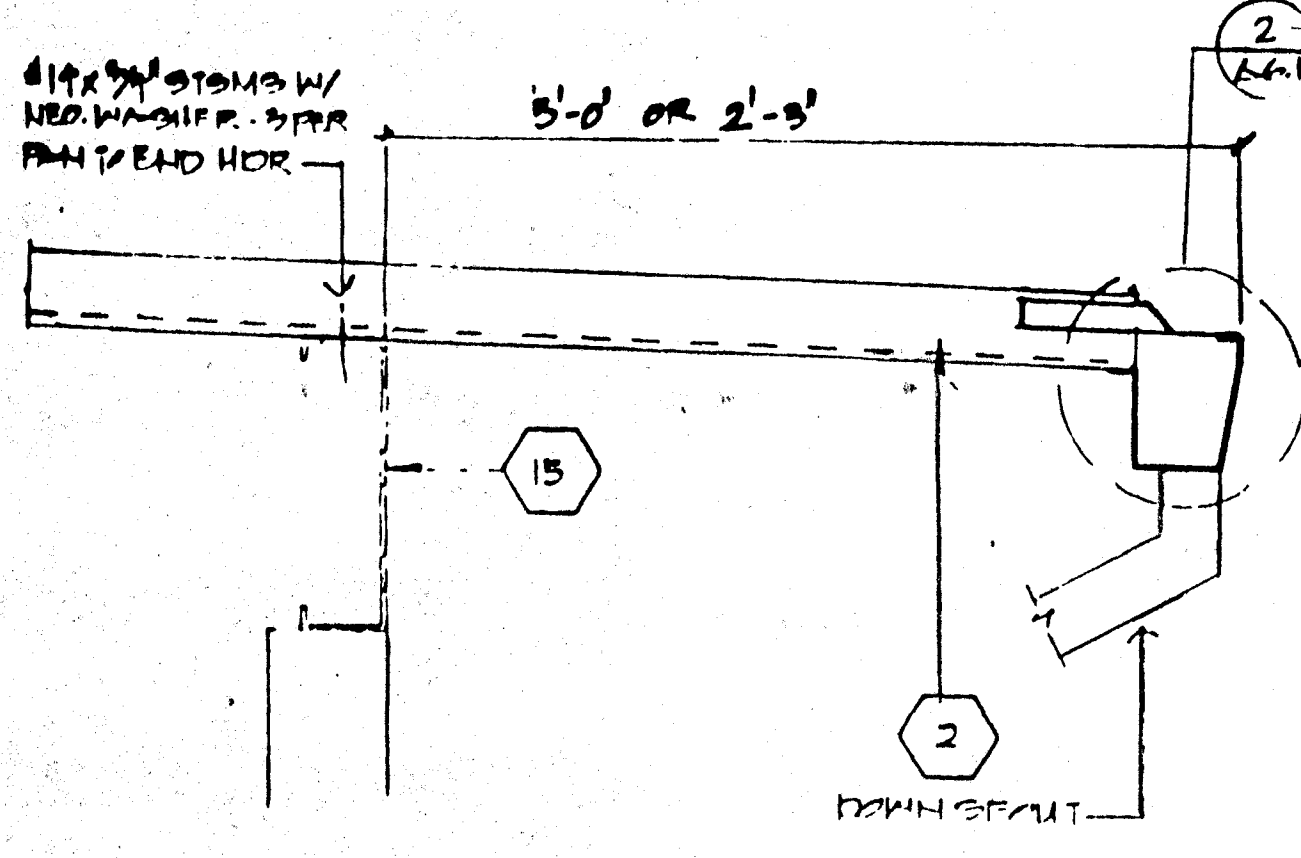
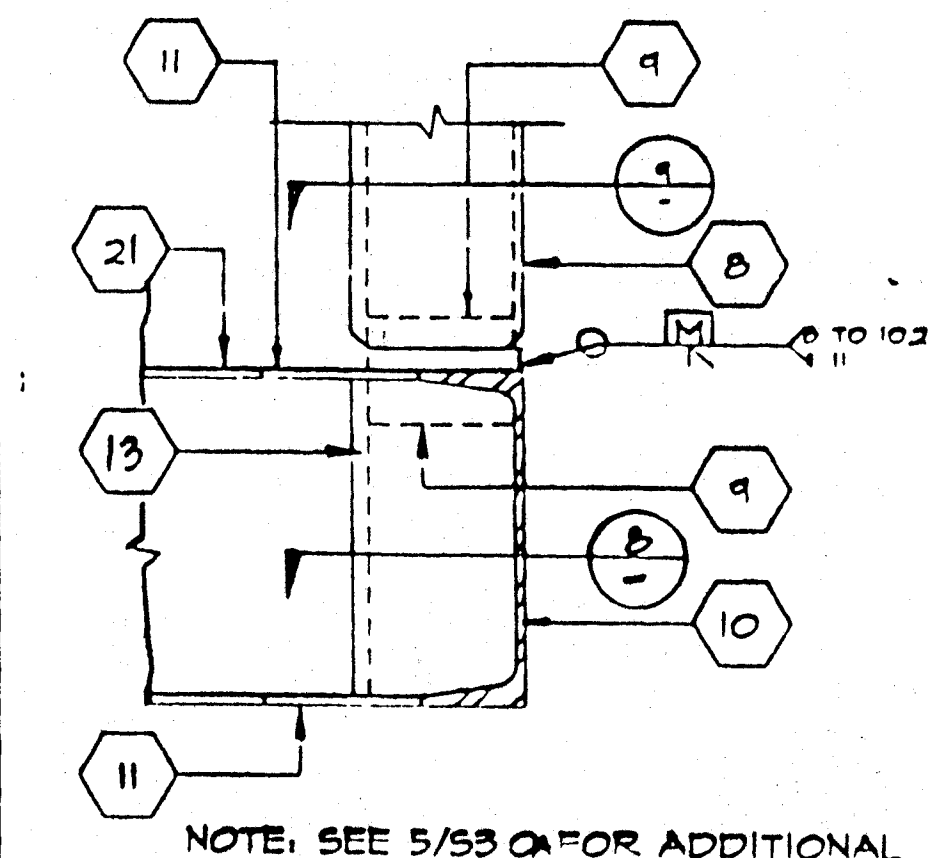
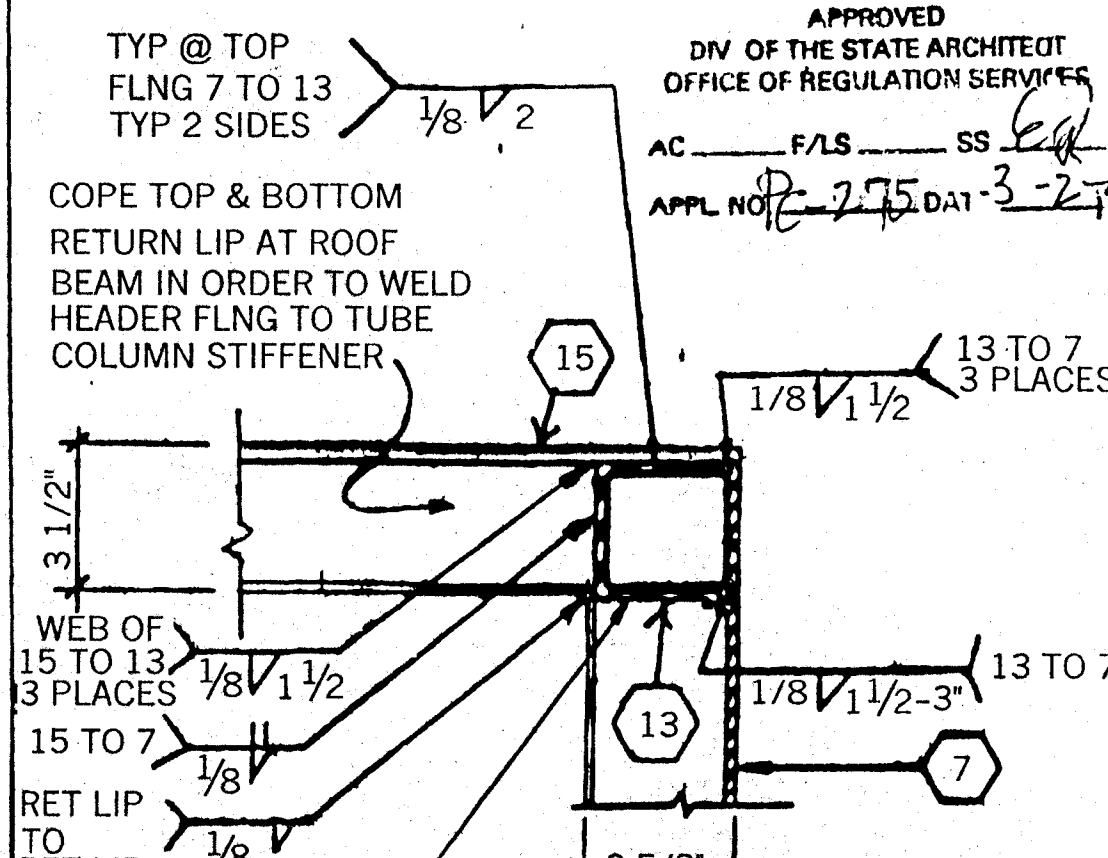
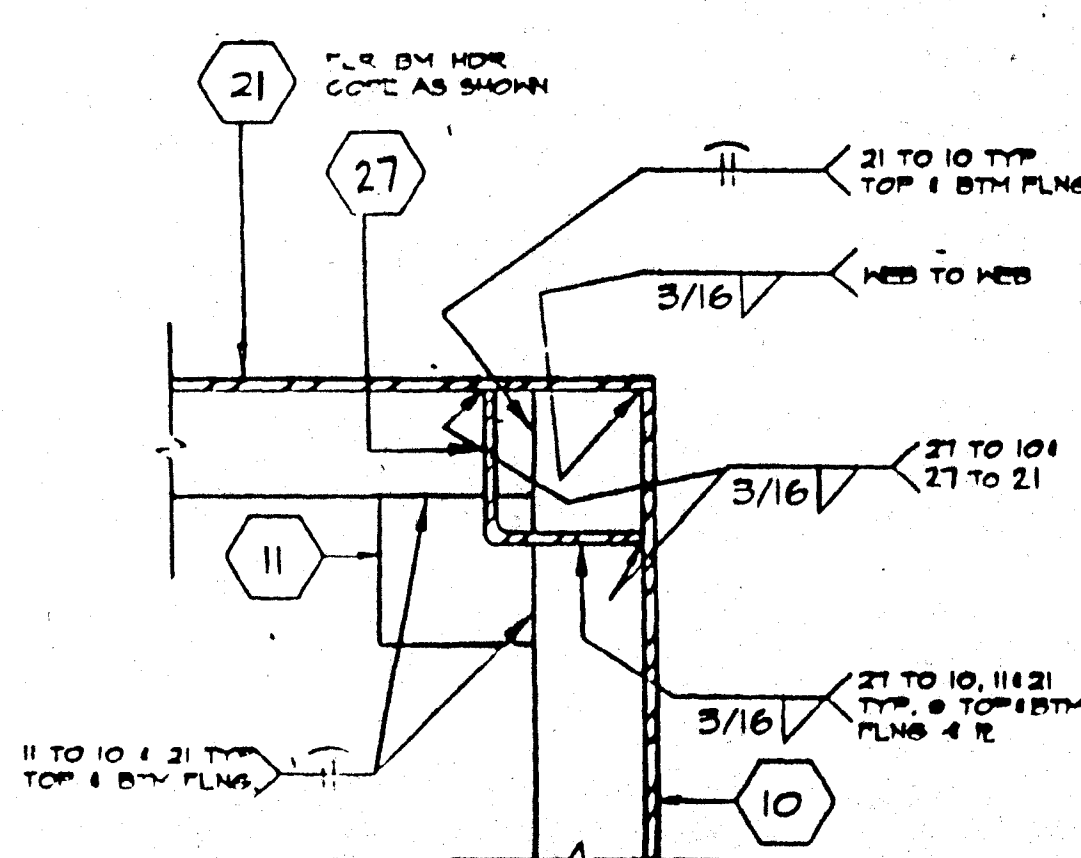






# KEY NOTES

- 1 EN @ PLYWOOD EDGES
- 2 22GA STANDING SEAM ROOF
- 3 6 3/8"x2 1/2"x12GA FLR JOIST 6/52.1
- 4 6x2 1/2"x14GA ROOF PURLIN 2/52.1
- 5 5"x3 1/2"x26 GA. ROOF END CLOSURE W/10 STOMBS W/4EDPMB WALKER 2" @ BOTTOM
- 6 NOT USED
- 7 [10 GA TAPERED ROOF BEAM (SEE 3/52.1) OR 12/52.1 REFER TO RF FRAMING PLAN
- 8 3 1/2"x3 1/2"x1/4" COLUMN
- 9 BACK-UP PLATE MIN 10 GA
- 10 [7x9.8 FLOOR CHANNEL
- 11 3 1/2"x3 1/2"x1/4" STEEL PLATE WELDED FLUSH TO TOP AND BOTTOM OF CHANNEL FLANGES
- 12 NOT USED
- 13 SECTION OF 3 1/2"x3 1/2"x1/4" TUBE STEEL COPE TO FIT ROOF BEAM
- 14 NOT USED
- 15 [14"x3 1/2"x12GA HEADER (SEE 1/52.1)
- 16 NOT USED
- 17 LOCATION OF HVAC OPENING.
- 18 1/4" FULL DEPTH STIFFENER PLATE AT 8'-0" OC UNO ALIGN WITH PURLIN
- 19 NOT USED
- 20 NOT USED
- 21 [7x9.8 FLOOR HEADER
- 22 NOT USED
- 23 NOT USED
- 24 NOT USED
- 25 NOT USED
- 26 NOT USED
- 27 3 1/2"x3 1/2"x1/4" TUBE STEEL COPE TO FIT FLOOR BEAM



OUTER OVERHANG @ REAR & FRONT

ARCHITECT

ELECTRICAL

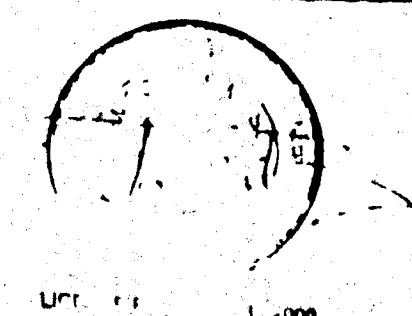
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MECHANICAL

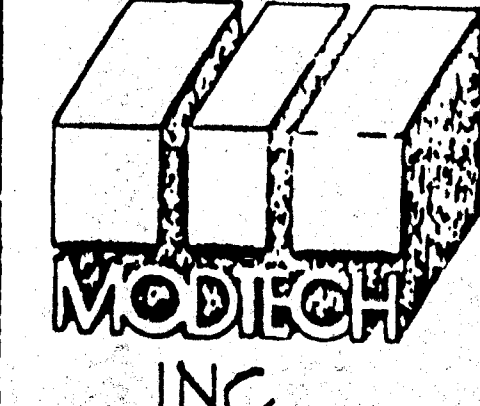
FIRE MARSHAL

ACCESS COMPLIANCE

STRUCTURAL SAFETY



R-275  
10/15/98



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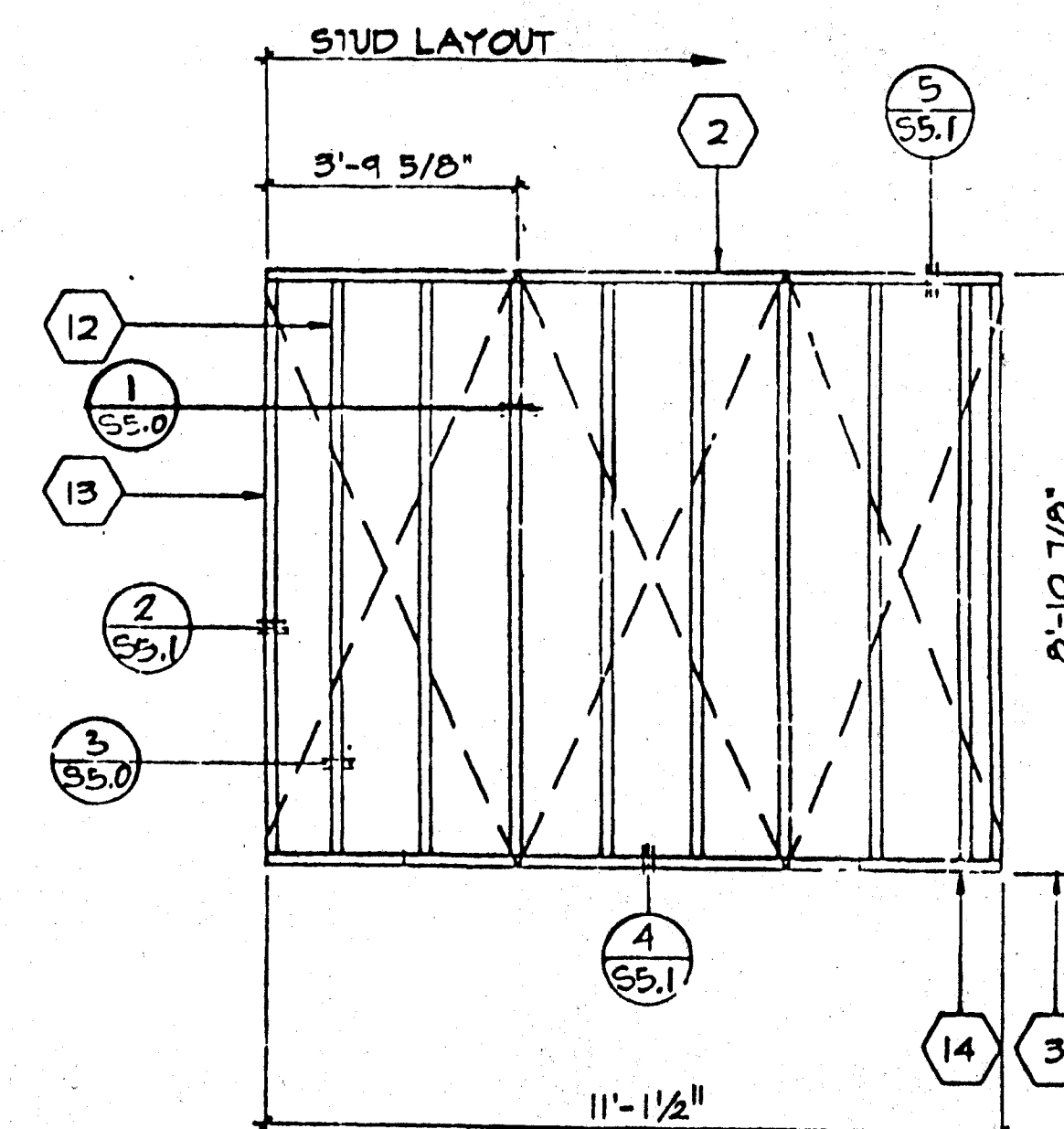
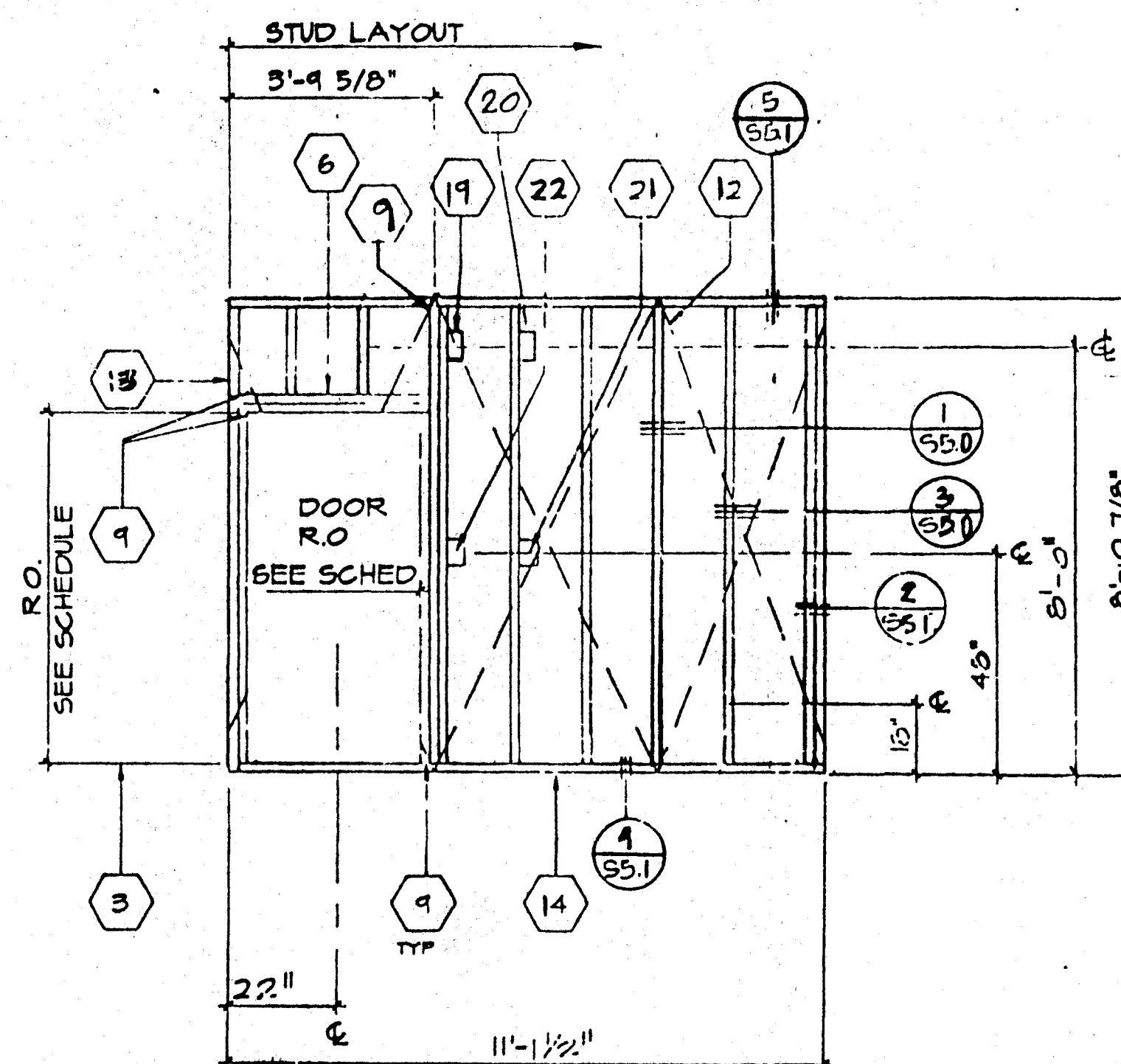
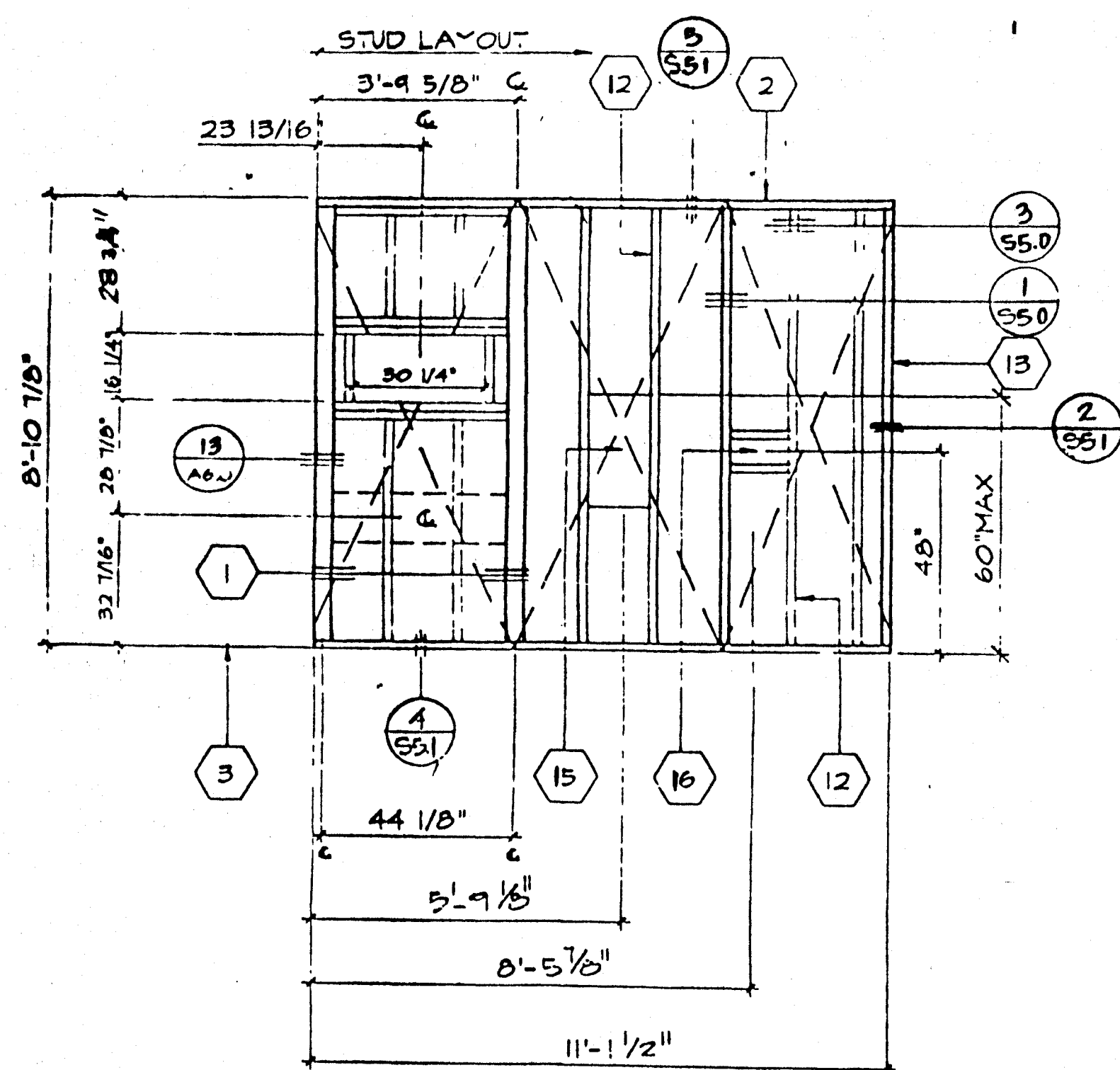
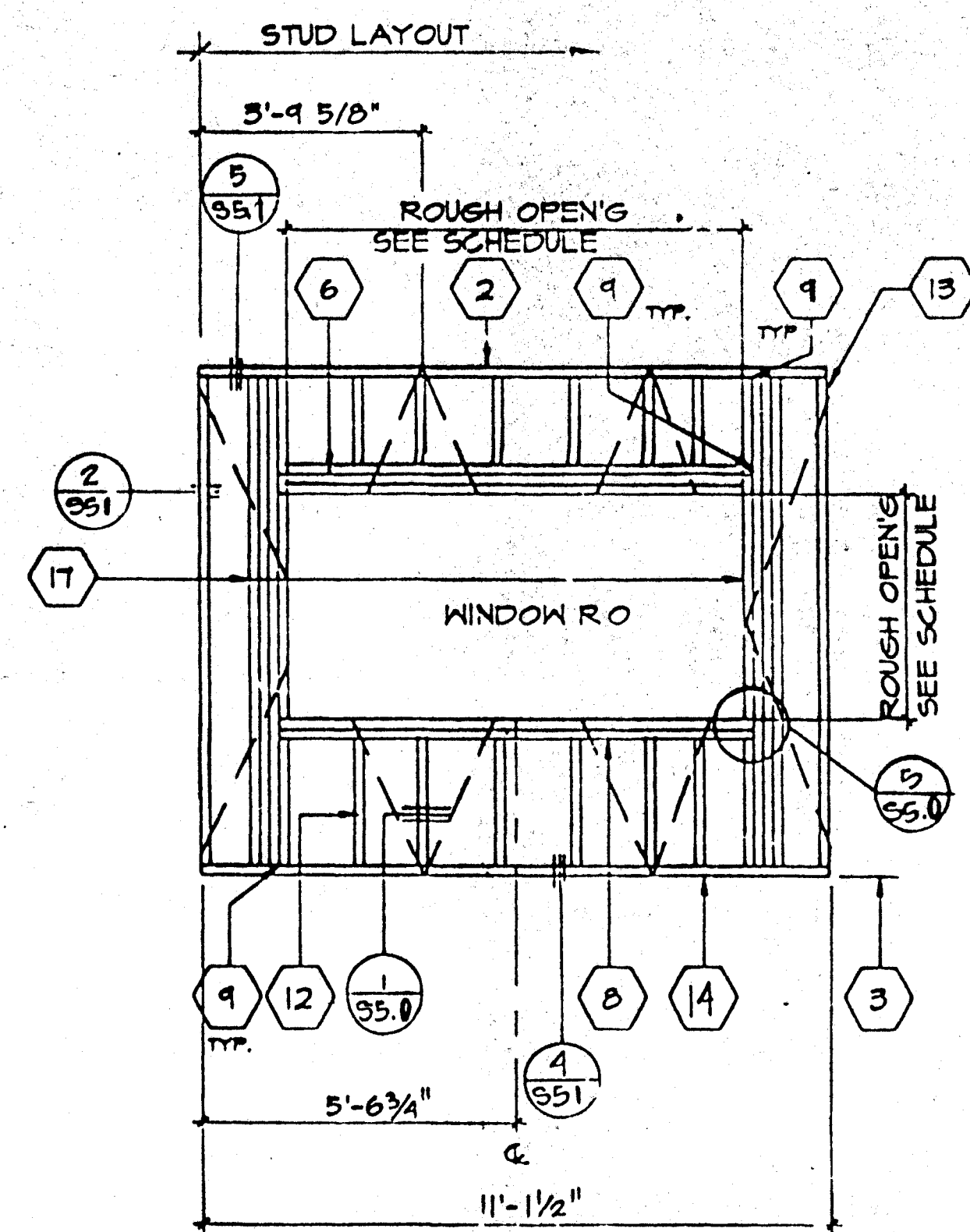
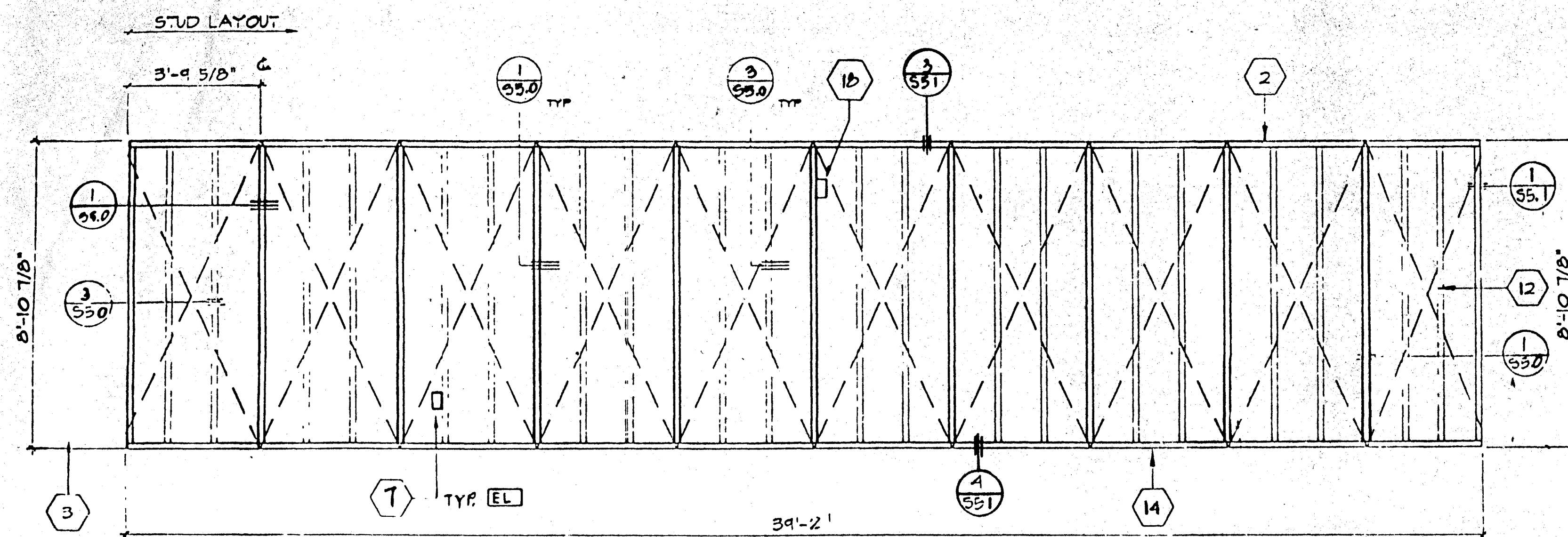
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**DUAL PITCH**

**S3.0A**

STRUCTURAL ELEVATIONS AND DETAILS





- ## KEY NOTES

- 1 4X4 POST ALT. USE 2-2X4 W/FACENAILING
- 2 2X4 TOP PLATE
- 3 FINISH FLOOR
- 4 2X4 FULL HGT KING STUDS AND 2X4 TRIMMER  
(SEE SCHEDULE FOR QUANTITY SH.T. 55.1)
- 5 NOT USED
- 6 HEADER (SEE SCHEDULE 12/55.1)
- 7 DUPLEX OUTLET BOX EL
- 8 WINDOWSILL PLATE (SEE SCHEDULE)
- 9 A 34 CLIPS @ HEADER & SILL TO FULL HGT.  
STUDS AND FULL HGT STUDS TO TOP AND  
BOTTOM PLATES SEE 4/55.1
- 10 REQUIRED OPENING FOR A 3068 DOOR  
(SEE DETAIL 12/55.0)
- 11 REQUIRED OPENING FOR A 8040 WINDOW  
(SEE DETAIL 12/55.0)
- 12 2X4 STUD @ 16" O.C. TYPICAL
- 13 2X4 NAILER TYPICAL @ EACH END
- 14 2X4 SILL PLATE
- 15 FRAME FOR ELECTRICAL PANEL
- 16 THERMOSTAT LOCATION 45 BOX
- 17 FULL HGT STUDS AND 1-2X4 TRIMMER  
(SEE WINDOW SCHEDULE FOR JAMB STUDS  
REQUIRED SH.T. 55.0)
- 18 CLOCK OUTLET + 7/8" AFF
- 19 "J" BOX FOR EXTERIOR LIGHT FIXTURE  
(TO EXTERIOR)
- 20 FIRE HORN (TO INTERIOR)
- 21 FIRE PULL STATION (TO INTERIOR)
- 22 LIGHT SWITCH BOX


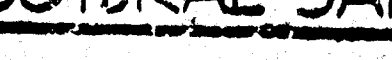
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DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICE

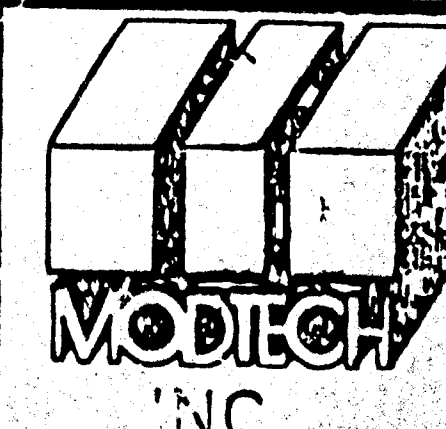
O4 100807

AC FLS SS

DATE OCT 22 1998

SCALE 3/8"=1'

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS/COMPLIANCE	STRUCTURAL SAFETY
						



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**S4.0**

## WALL FRAMING



OPENING SCHEDULE					
OPENING	HDR.	SILL	JAMB	HEIGHT	WIDTH
3068	(2) 2x4	(2) 2x4	2-2x4 *	81 1/4"	38"
3040	(2) 2x4	(2) 2x4	3-2x4 *	48 1/8"	96 1/8"

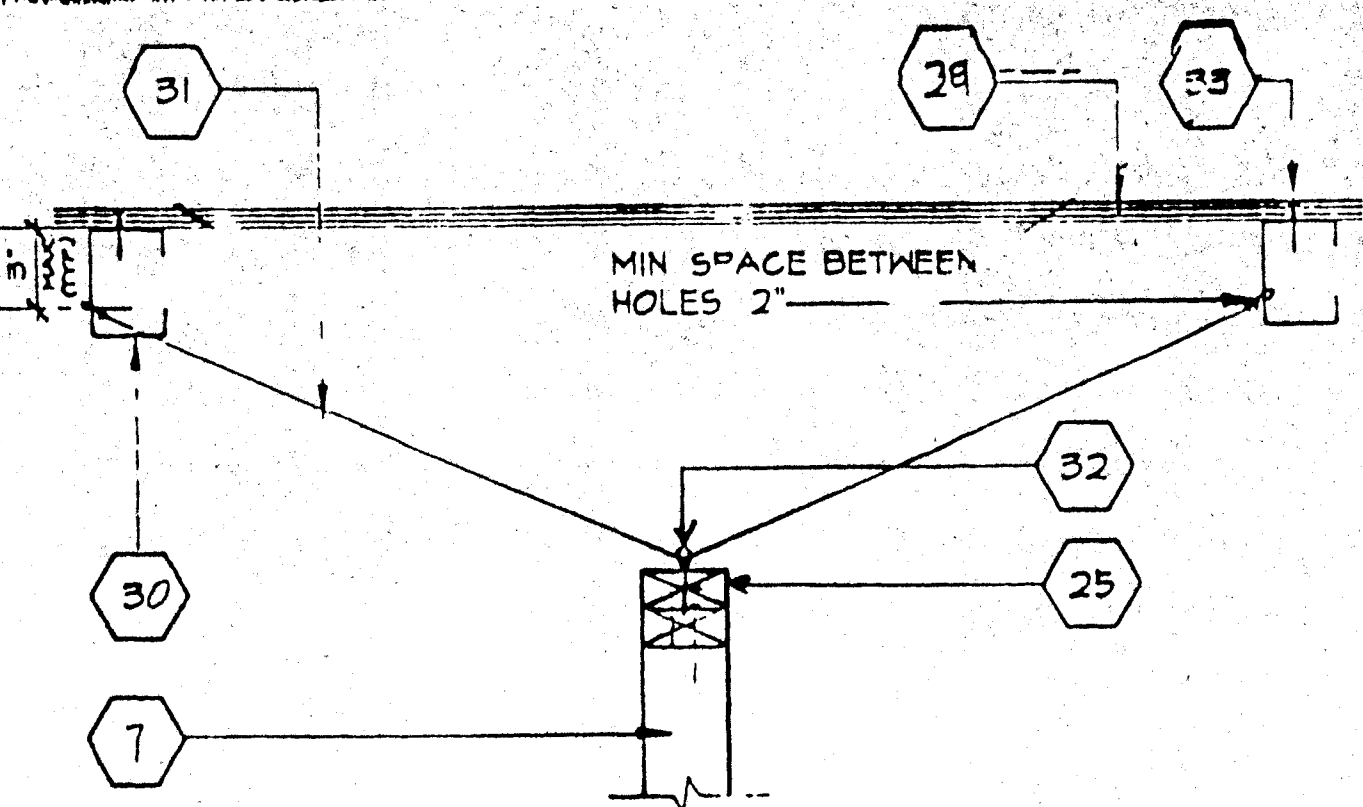
ROUGH OPENING

\* FULL HEIGHT STUDS  
ALTERNATE: METAL STUD 3 1/2" x 20GA  
IN LIEU OF 2X4 WD. STUDS

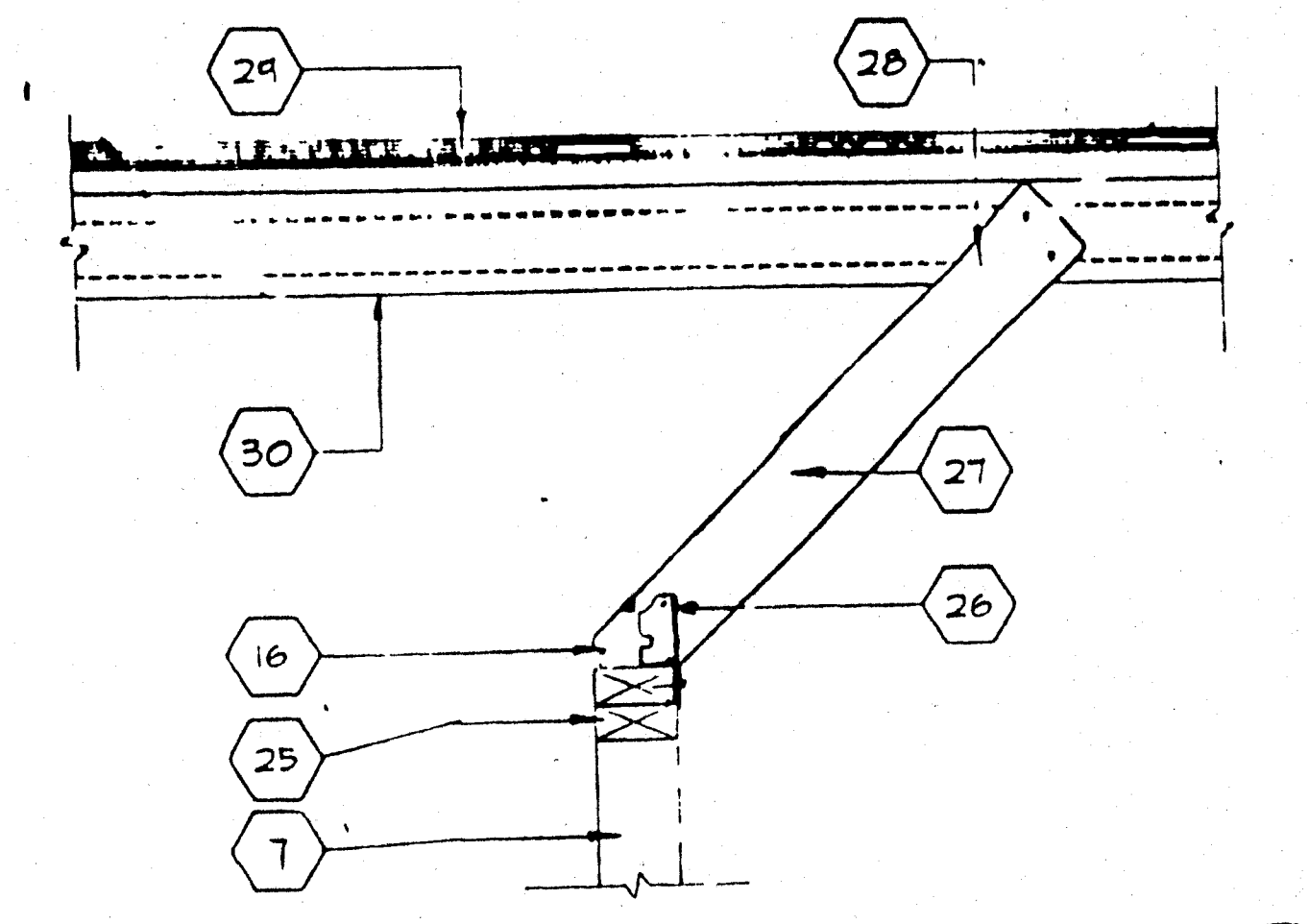
## NAILING SCHEDULE

CONNECTION	NAILING
1. JOIST TO SILL OR GIRDER, TOENAIL	3-bd
2. Bridging in joist, toenail each end	2-bd
3. 1" x 6" subfloor or less to each joist, face nail	2-bd
4. Header than 1" x 6" subfloor to each joist, face nail	3-bd
5. 2" subfloor to joist or girder blind and face nail	2-bd
6. Sill plate to joist or blocking, face nail	1-bd at 16" oc
7. Top plate to stud, end nail	2-bd, or toenail
8. Stud to sole plate	2-bd, end nail
9. Double studs, face nail	1-bd at 24" oc
10. Doubled top plates, face nail	1-bd at 16" oc
11. Top plates, laps and intersections, face nail	2-bd
12. Continuous header, two pieces	1-bd at 16" oc
13. Ceiling joists to plate, toenail	3-bd
14. Continuous header to stud, toenail	4-bd
15. Ceiling joists, laps over partitions, face nail	3-bd
16. Ceiling joists to parallel rafters, face nail	3-bd
17. Rafter to plate, toenail	2-bd
18. 1" brace to each stud and plate, face nail	2-bd
19. 1" x 6" sheathing or less to each bearing, face nail	3-bd
20. Wider than 1" x 6" sheathing to each bearing, face nail	3-bd staggered 1-20d at 24" oc
21. Built-up corner studs	1-bd at 24" oc
22. Built-up girder and beams	20d at 32" oc at top and bottom and end and at each splice
23. 2" planks	2-bd at each bearing
24. Plywood and particleboard subfloor, roof and wall sheathing (to framing) 1/2" and less	6d
14" 3/4" - 5/4"	8d or 10d or 12d
7/8" - 1" 1 1/8" - 1 1/4"	8d or 10d or 12d
8d Combination subfloor-underlayment (to framing) 3/4" and less	6d
7/8" - 1" 1 1/8" - 1 1/4"	8d or 10d or 12d
8d Panel Siding (to framing) 1/2" or less	6d
3/8"	6d

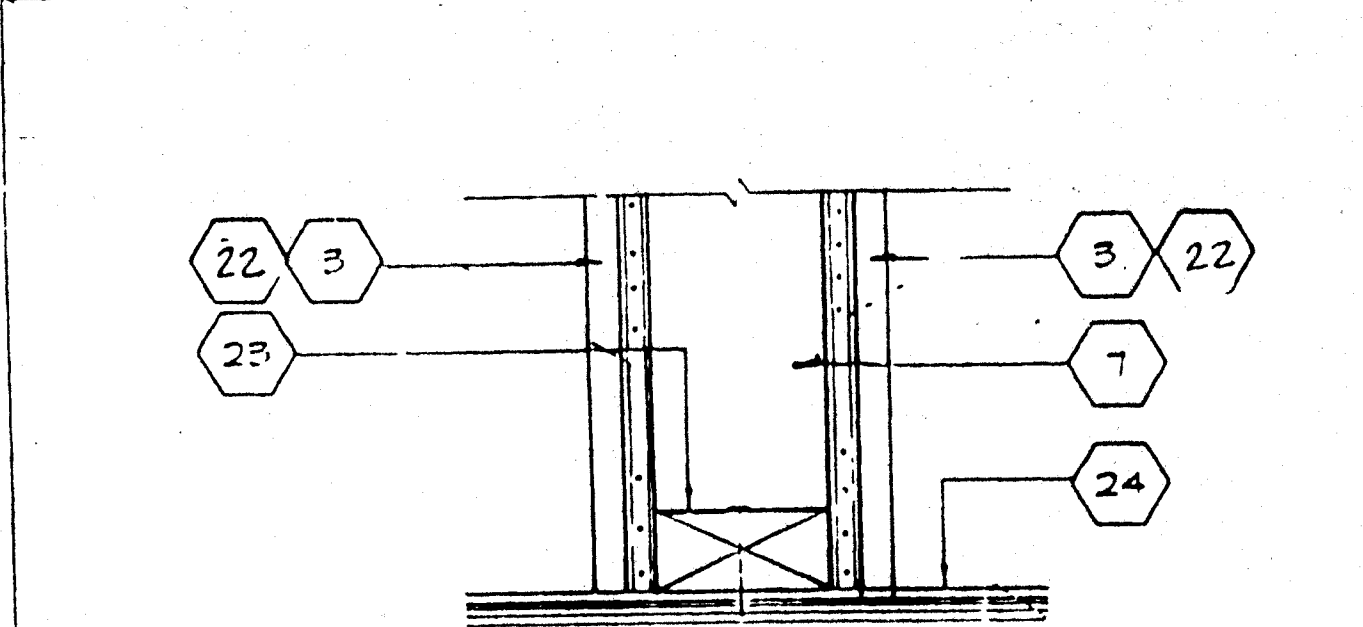
NOTE: All nail shall be box nails unless otherwise noted



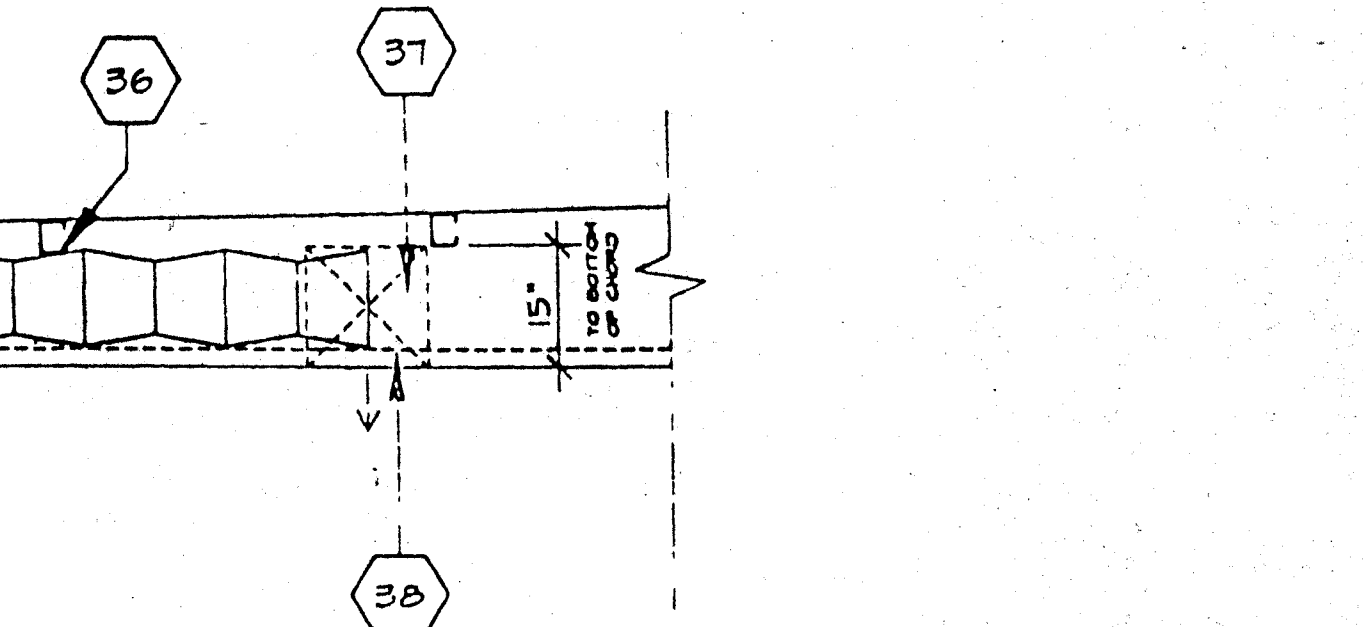
SCALE 1-1/2"=1'  
PARALLEL PARTITION CONN. 8



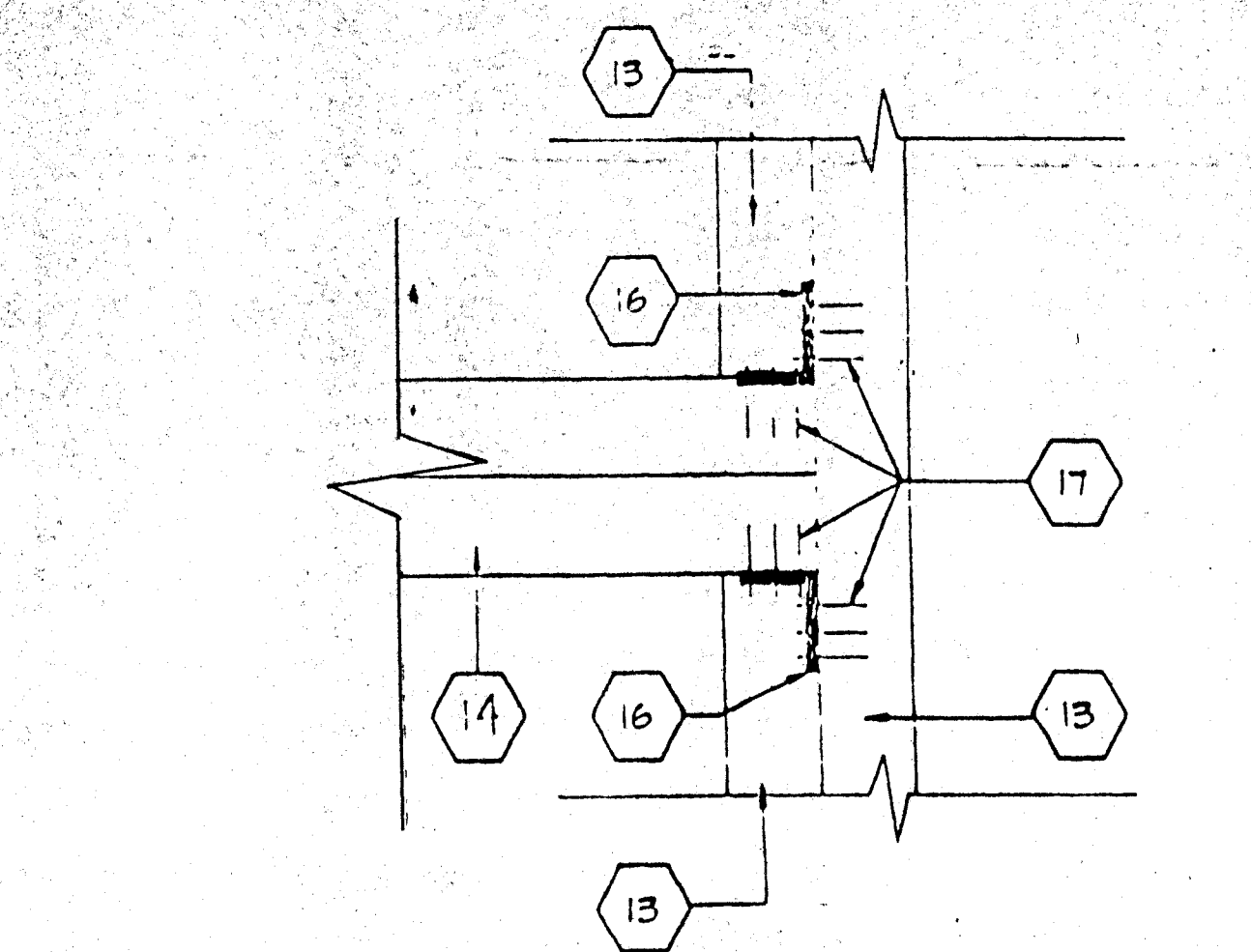
SCALE 1-1/2"=1'  
PERPENDICULAR PARTITION CONN. 9



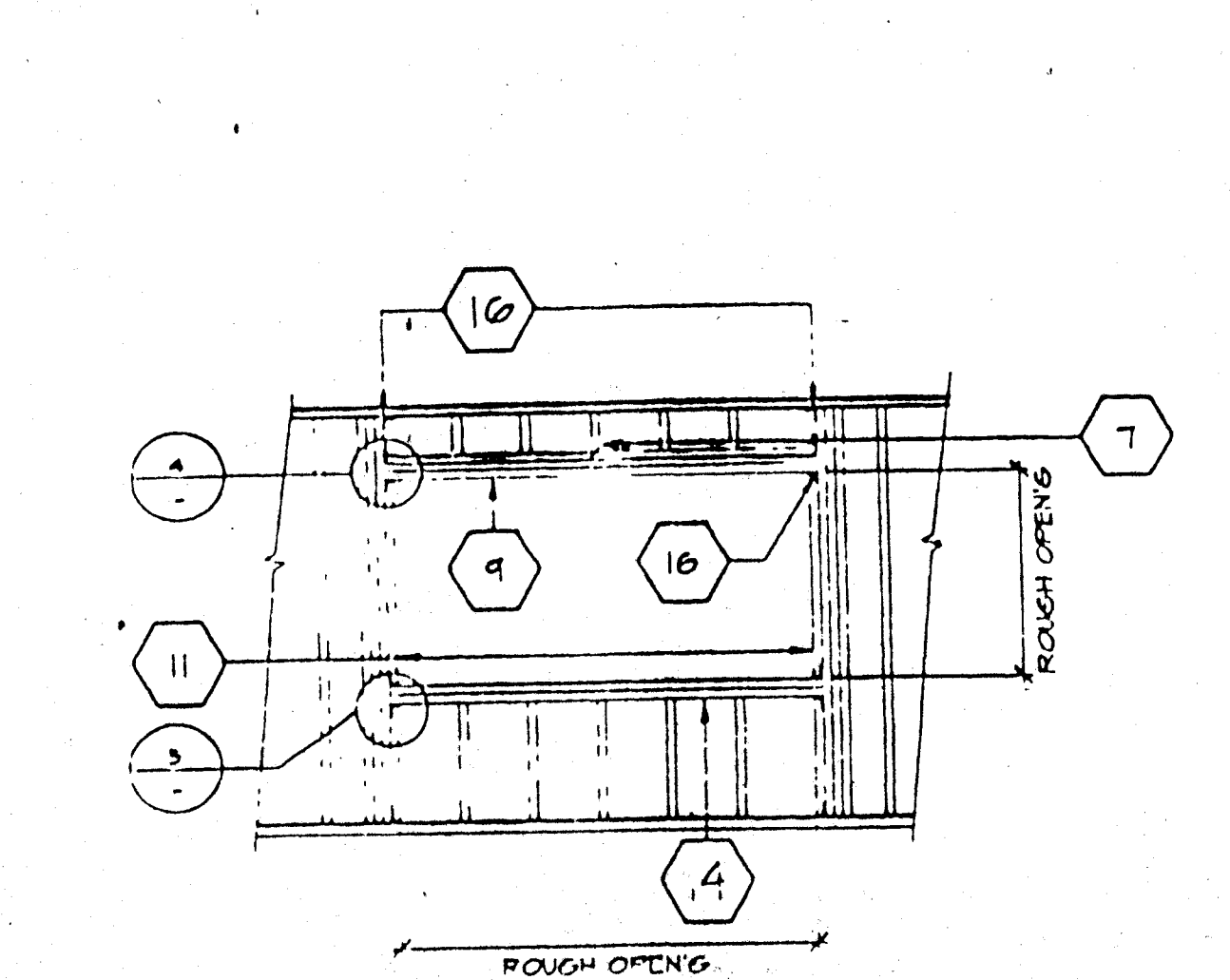
SCALE 3"=1'  
INT. PARTITION CONN. @ FLOOR 10



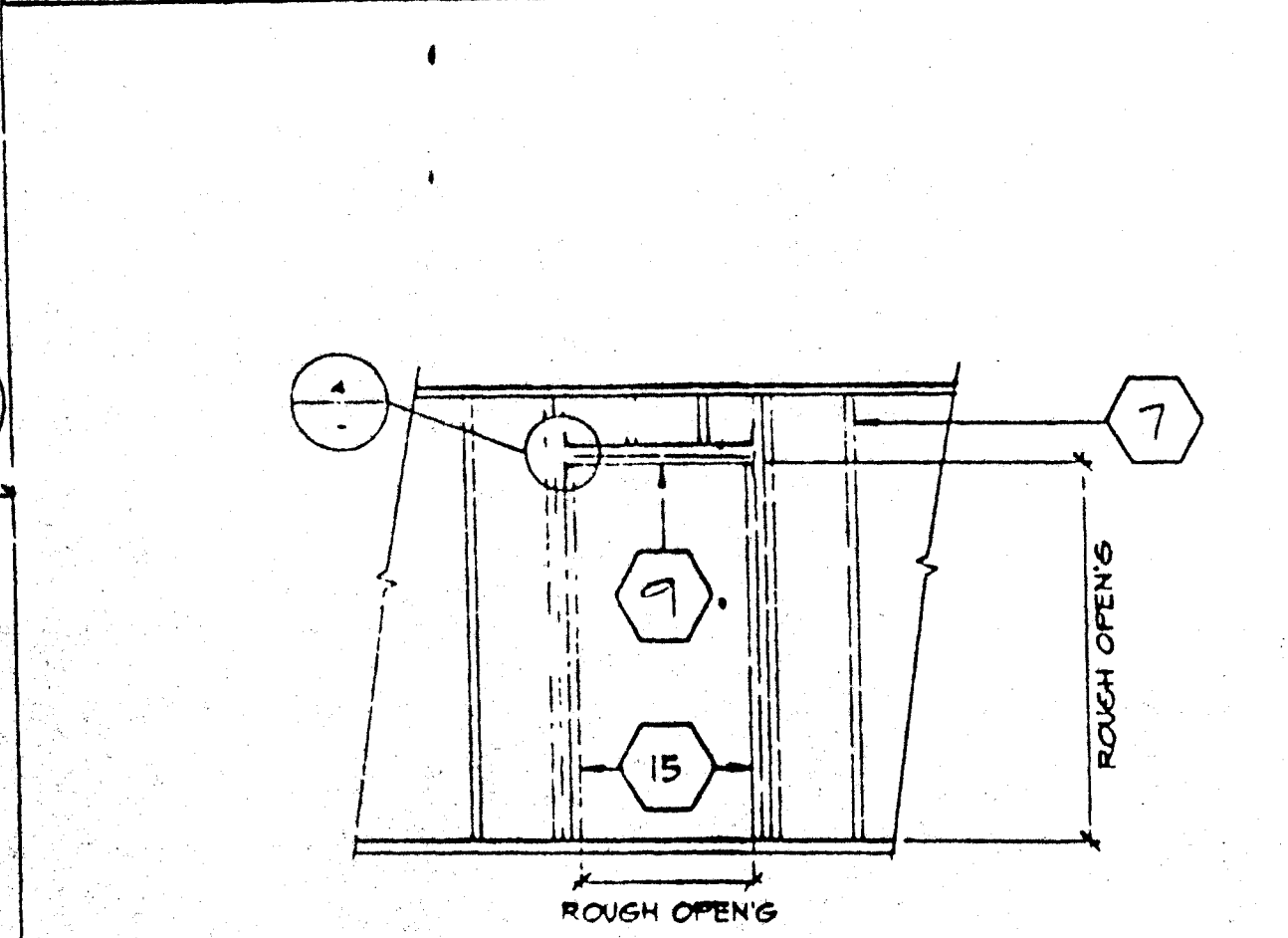
SCALE 1/2"=1'  
SECTION HVAC IN ROOF 11



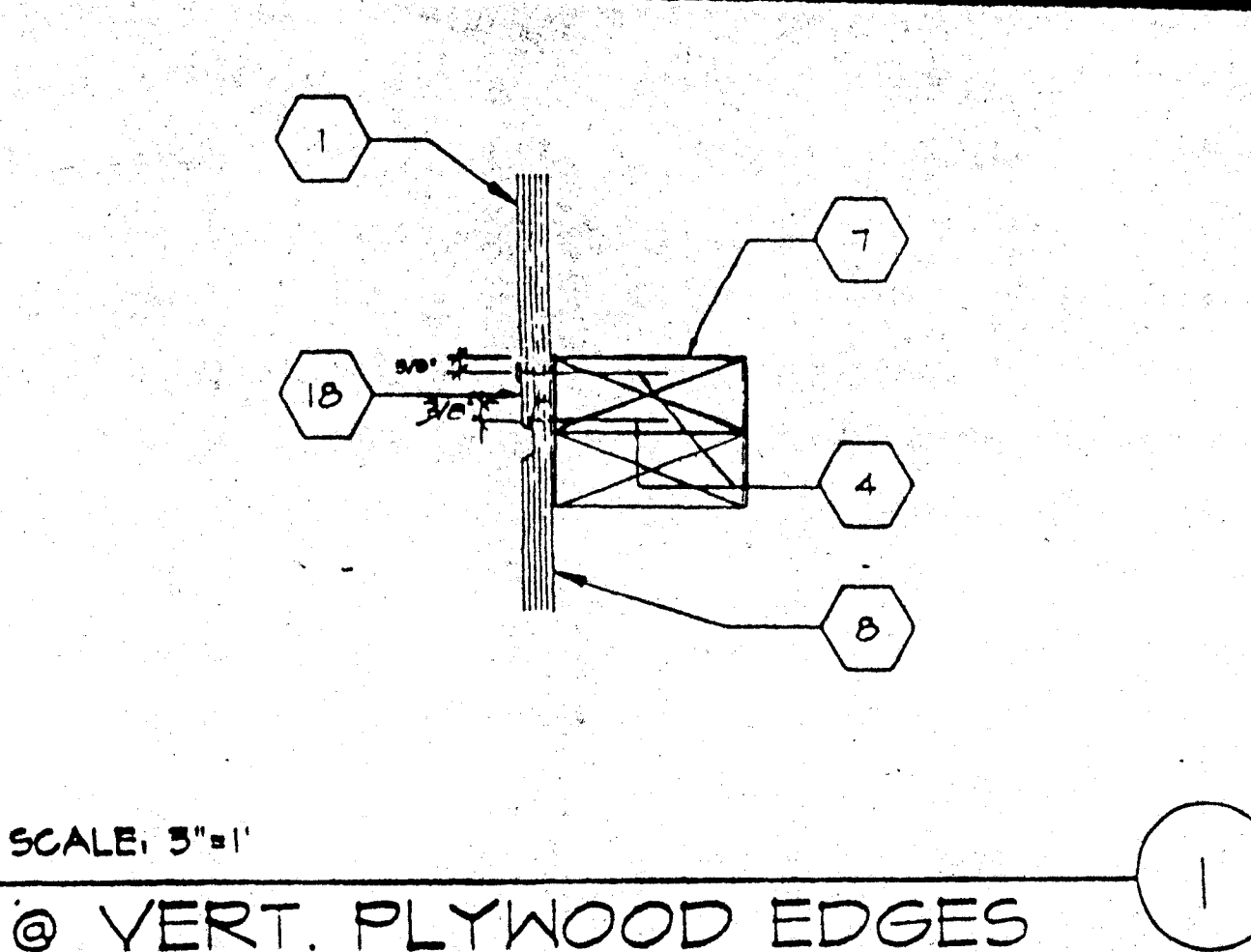
SCALE 3"=1'  
WINDOW SILL & JAMB 5



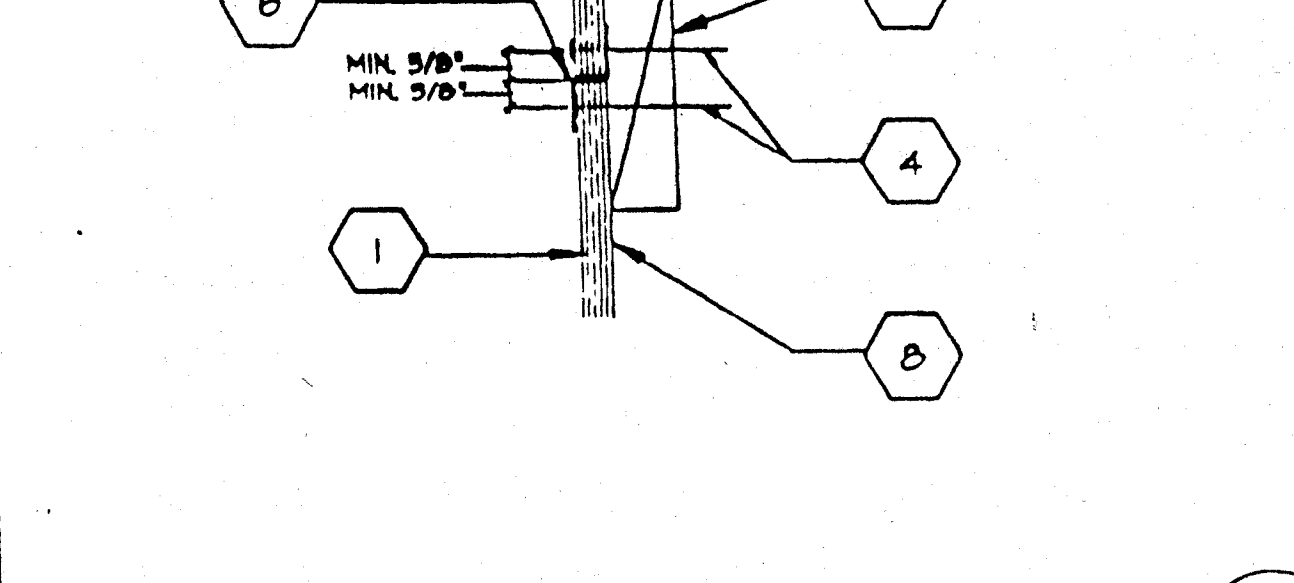
SCALE 3"=1'  
TYP WINDOW FRAMING 6



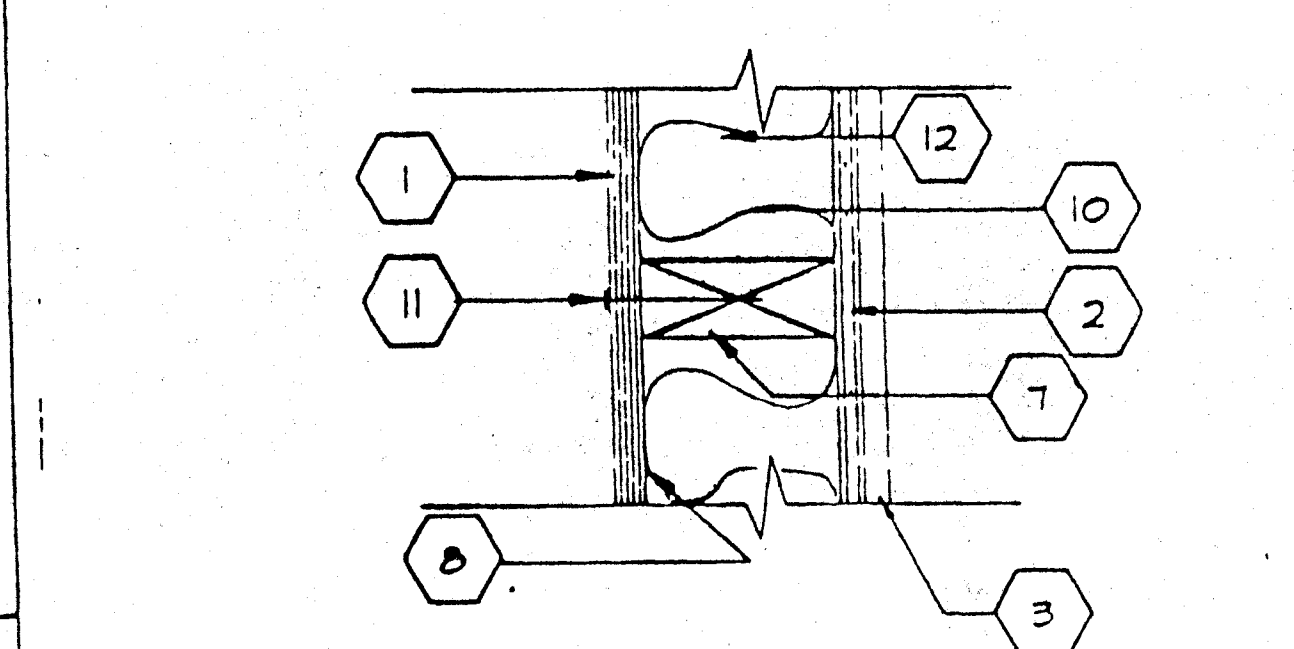
SCALE 3"=1'  
TYP DOOR FRAMING 7



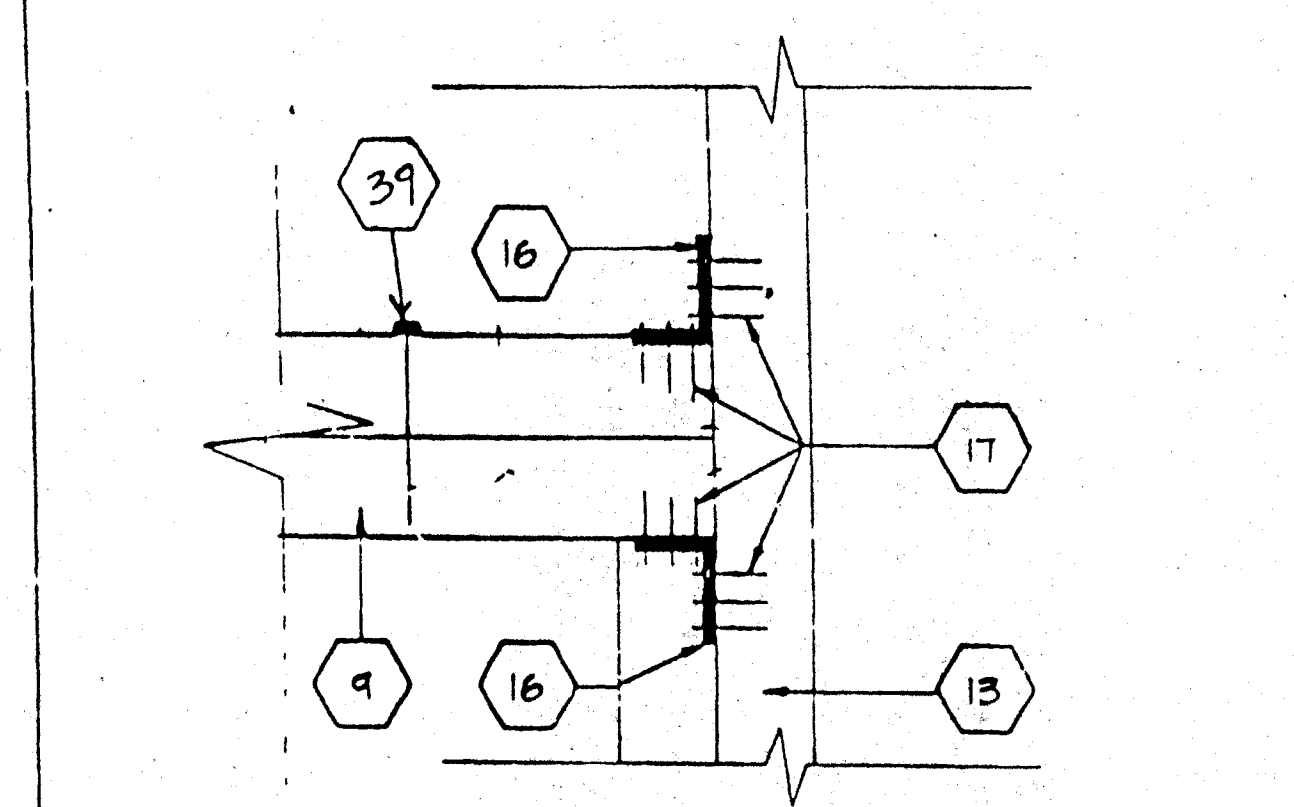
SCALE 3"=1'  
@ VERT. PLYWOOD EDGES 1



SCALE 3"=1'  
DETAIL @ HORIZ. PLYWOOD JOINTS 2



SCALE 3"=1'  
SECTION @ STUD 3



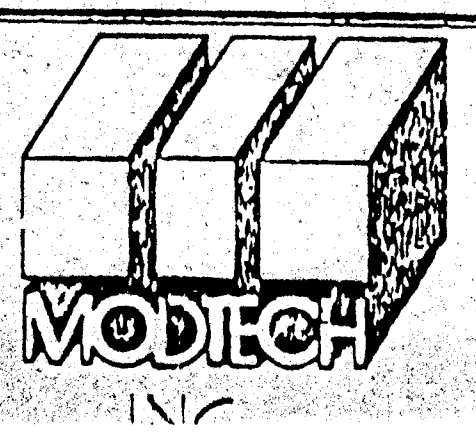
SCALE 3"=1'  
HEADER DETAIL 4

## KEY NOTES

- NAILING:**  
- NAILING IN ACCORDANCE W/ T24 C.A.C. TABLE 2-25P  
- ALL NAILING EXPOSED TO WEATHER SHALL BE GALV.  
- MACHINE APPLIED NAILING SHALL HAVE FIELD DEMONSTRATION AND APPROVAL BY OSHA/PSA FIELD REP AND THE ARCHITECT.
- EXTERIOR PLYWOOD SIDING - SHEATHING NAIL W/GALV. BOX NAILS - 8d @ 6" O.C EDGES, 8d @ 12" O.C IN FIELD
  - GYP BOARD
  - TYP INTERIOR FINISH-SEE FINISH SCHEDULE
  - EN
  - 2X4 BLK'G
  - "Z" FLASHING
  - 2X4 @ 16" O.C
  - WATERPROOF MEMBRANE
  - HEADER (SEE SCHEDULE S31)
  - INSULATION (SEE SPECIFICATIONS)
  - 8d ELECTRO GALV 12" O.C FN
  - 2X4 SILL PLATE (BELOW)
  - FULL HEIGHT STUDS AND 1-2X4 TRIMMER (SEE OPENING SCHEDULE FOR JAMB STUDS REQUIRED FOR DOORS & WINDOWS ONLY)
  - 2X4 FULL HEIGHT KING STUDS AND 2X4 TRIMMER (SEE SCHEDULE FOR QUANTITY)
  - SILL PLATE (SEE SCHEDULE)
  - A 34 CLIPS @ HEADER AND SILL TO FULL HEIGHT STUDS AND FULL HEIGHT STUDS TO TOP AND BOTTOM PLATES
  - 9GA 8d 1 1/2" NAILS
  - LAP JOINT
  - NOT USED
  - NOT USED
  - NOT USED
  - ATTACH 6YP BD TO STUDS W/8d COOLERS
  - 2X4 BOTTOM PLATE W/16d @ 6" O.C
  - PLYWOOD FLOOR
  - 2X4 DBL TOP PLATE
  - SIMPSON A35 W/8d X 2 1/2"
  - 2X4 BRACE @ 8'-0" O.C MAX @ MAX 45°
  - #12 X 2" TYPE A HEX HEAD SCREWS W/WASHERS (TYP OF 3)
  - PLYWOOD SHEATHING
  - ROOF PURLIN
  - ATTACH 12GA BRACE WIRES TO EYE LAG SCREWS AND TO ROOF PURLINS @ 8'-0" O.C ENDS TO HAVE 4 TIGHT WRAPS IN 1-1/2"
  - 1/4φ 2-1/2" EYE LAG SCREW @ 8'-0" O.C
  - ATTACH PER ROOF FRAMING PLAN (TYP)
  - PLENUM
  - DUCTWORK
  - ROOF PURLIN
  - TRANSFER BOX
  - ROOF CHANNEL
  - 16d @ 16" O.C

NOTIFICATION STAMP  
DIVISION OF CONSTRUCTION  
OFFICE OF SPECIAL INSPECTION  
04 100000  
AC FLS SS 3P  
DATE OCT-2-2 1998

ARCHITECT	ELECTRICAL	STRUCTURAL	MECHANICAL	FIRE MARSHAL	ACCESS COMPLIANCE	STRUCTURAL SAFETY

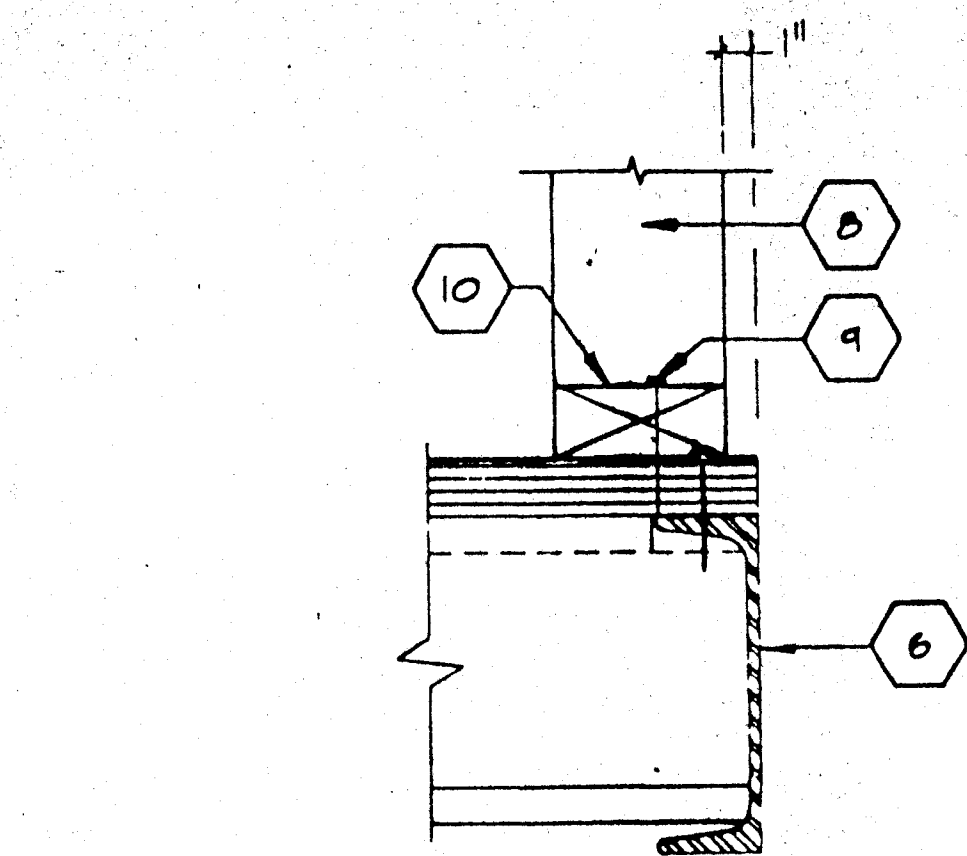
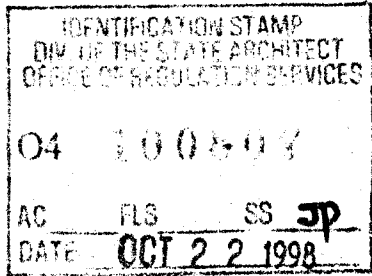




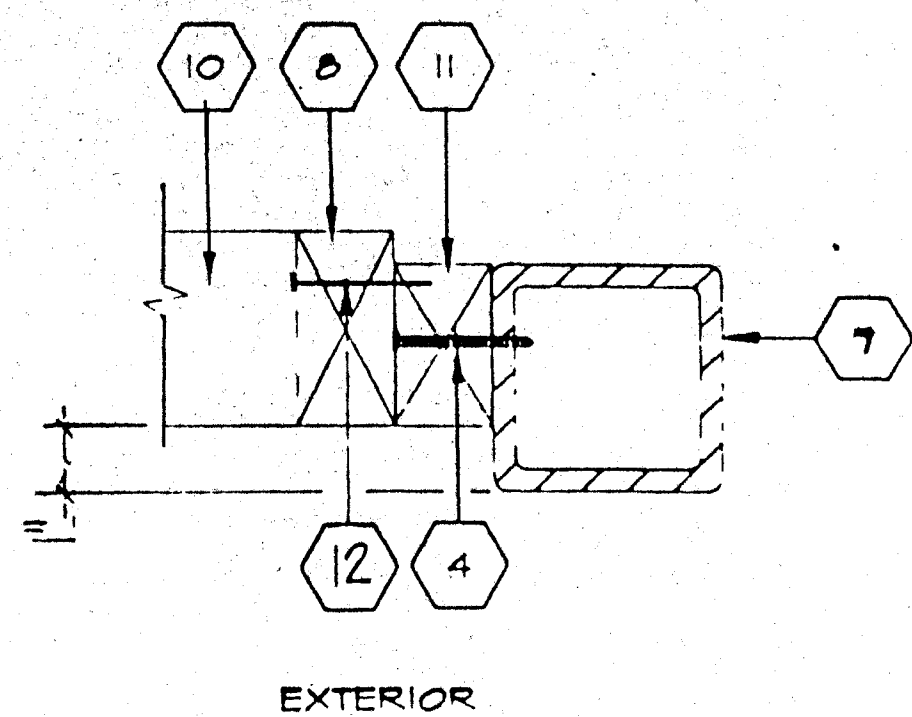
KEY NOTES

- 1 22 GAITL. ROOF DECK
- 2 [ 12 GA X 14" HEADER
- 3 NOT USED
- 4 10 STSMS @ 24" OC
- 5 STANDING SEAM ROOF TO BEAM (SEE STRUCTURAL)
- 6 FLOOR BEAM (SEE STRUCTURAL)
- 7 TUBE STEEL COLUMN
- 8 2X4 STD @ 16" OC, TYP
- 9 16d BOX NAILS @ 8" OC
- 10 2X4 SILL PLATE
- 11 2X TRIMMER @ CORNER
- 12 16d @ 24" OC
- 13 #10 STSMS @ 16" OC
- 14 2X4 TRIM
- 15 ROOF BEAM

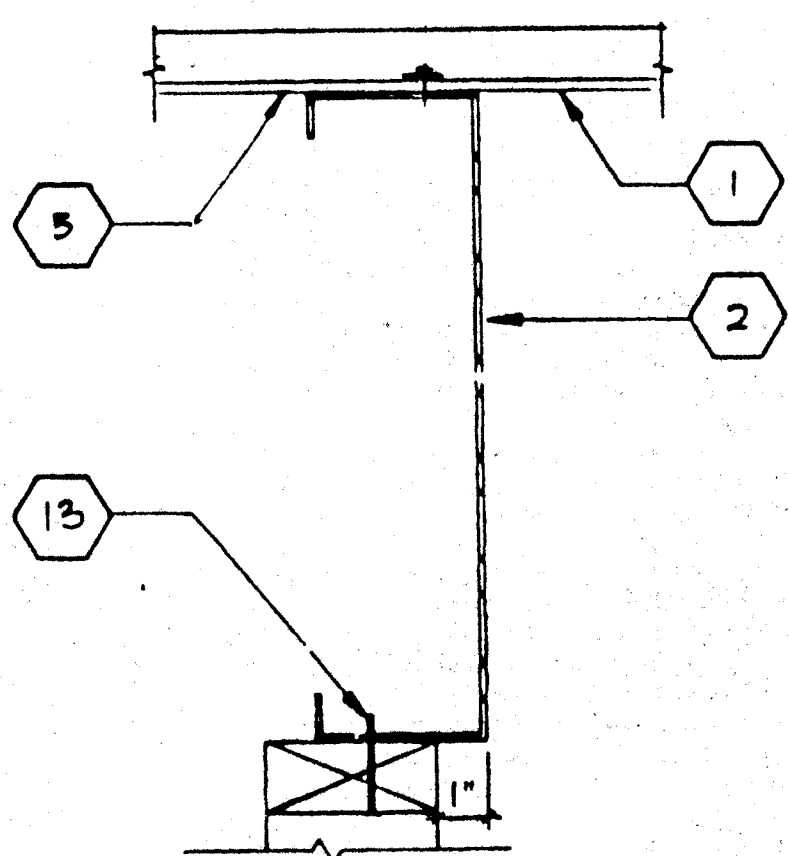
1. ALTERNATE: USE 0.145" SHOT PIN  
• SAME SPACING AS #10 STSMS



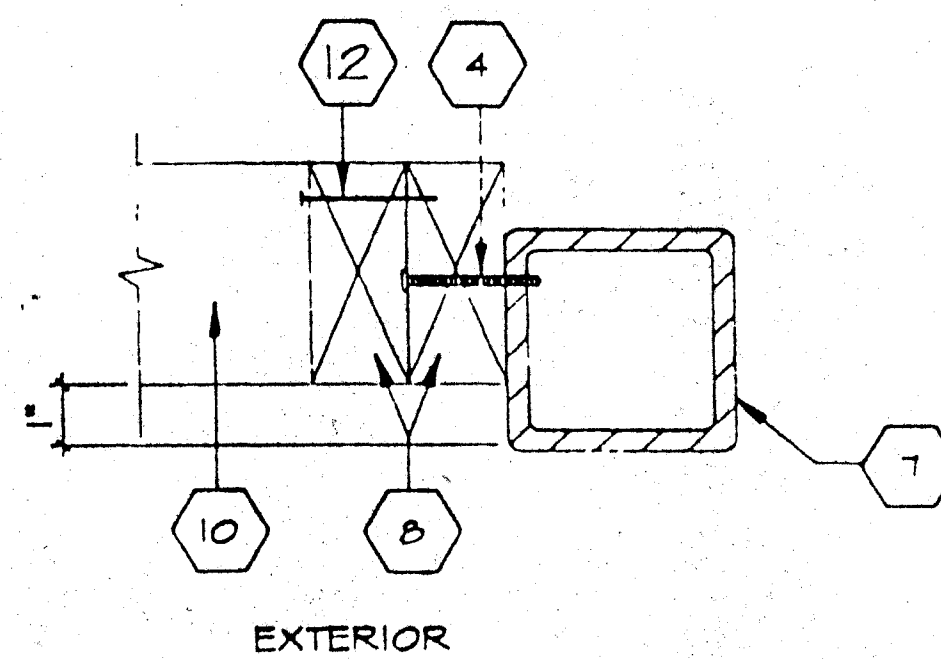
SCALE: 3"=1'  
PLATE @ FLOOR



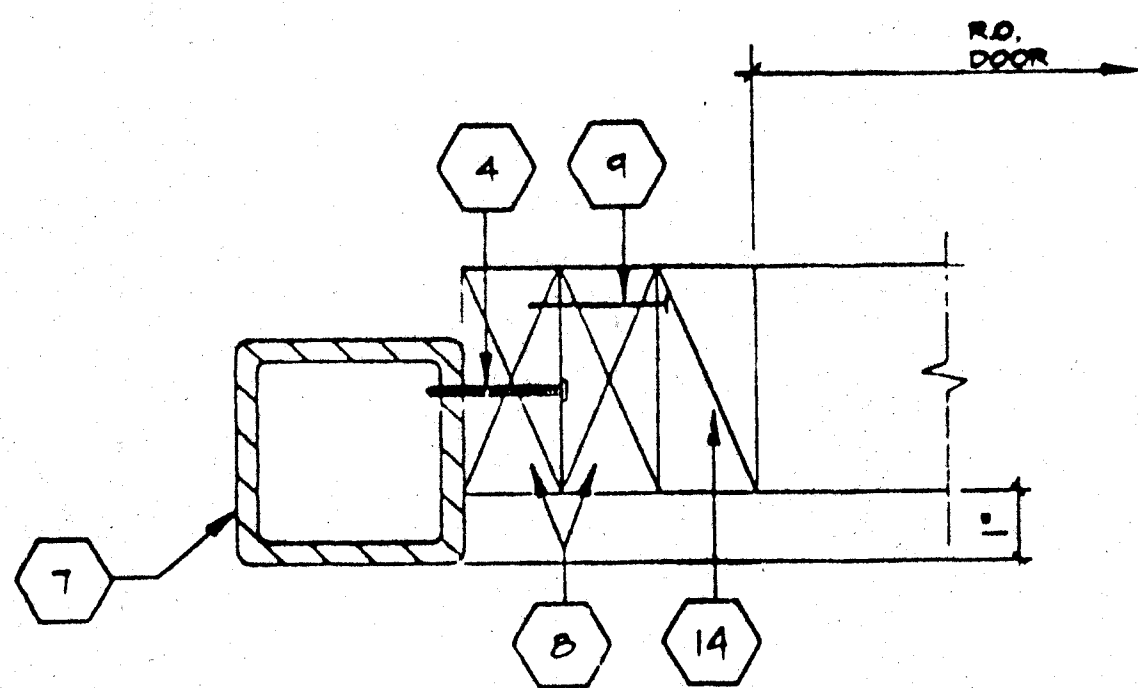
SCALE: 4"=1'  
COLUMN @ SIDEWALL



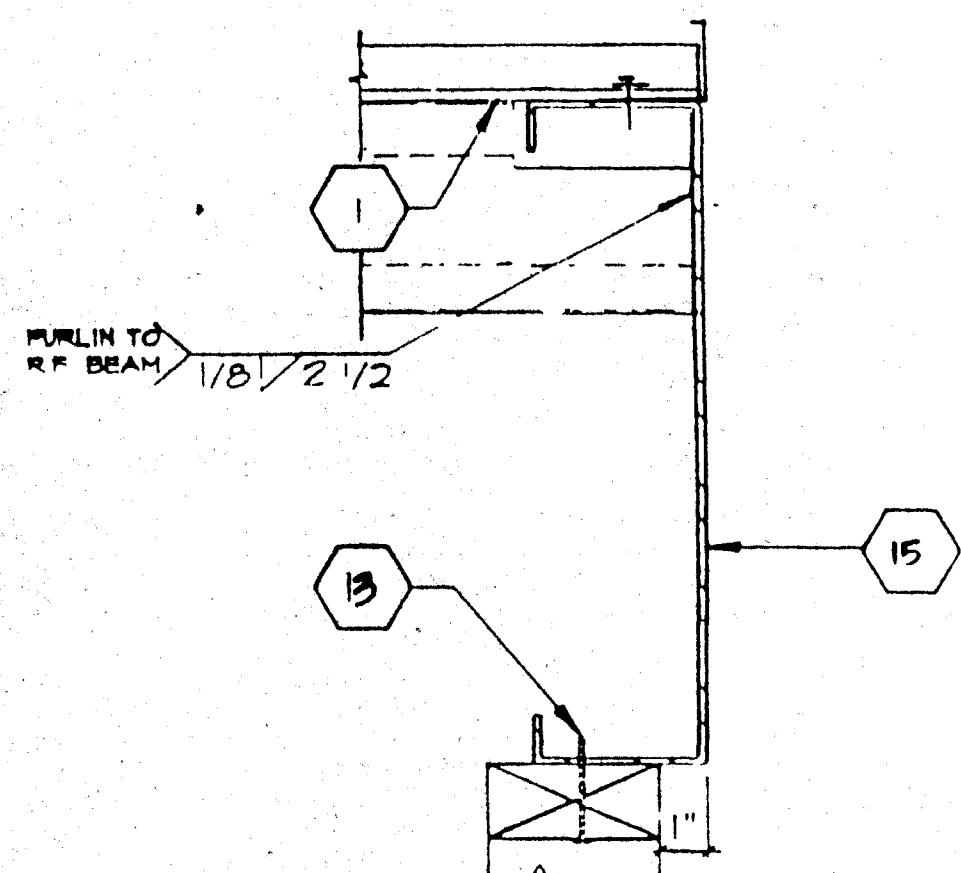
SCALE: 3"=1'  
END WALL @ ROOF HEADER



SCALE: 4"=1'  
COLUMN @ ENDWALL



SCALE: 4"=1'  
COLUMN @ END WALL W/DOOR



SCALE: 3"=1'  
ROOF PURLIN @ ROOF BEAM

ARCHITECT

ELECTRICAL

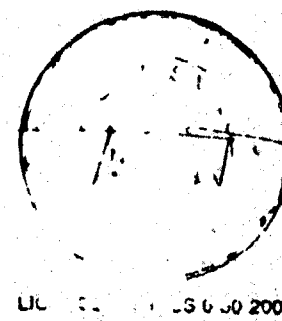
STRUCTURAL

MECHANICAL

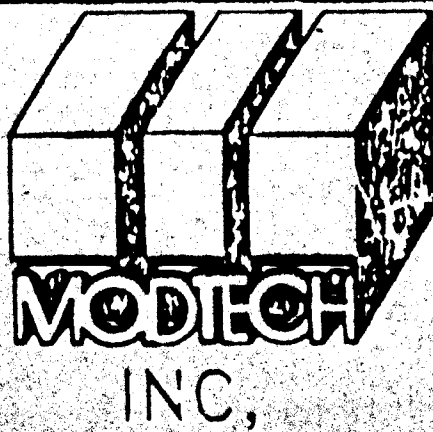
FIRE MARSHAL

ACCESS COMPLIANCE

STRUCTURAL SAFETY



PC - 275  
1-19-96

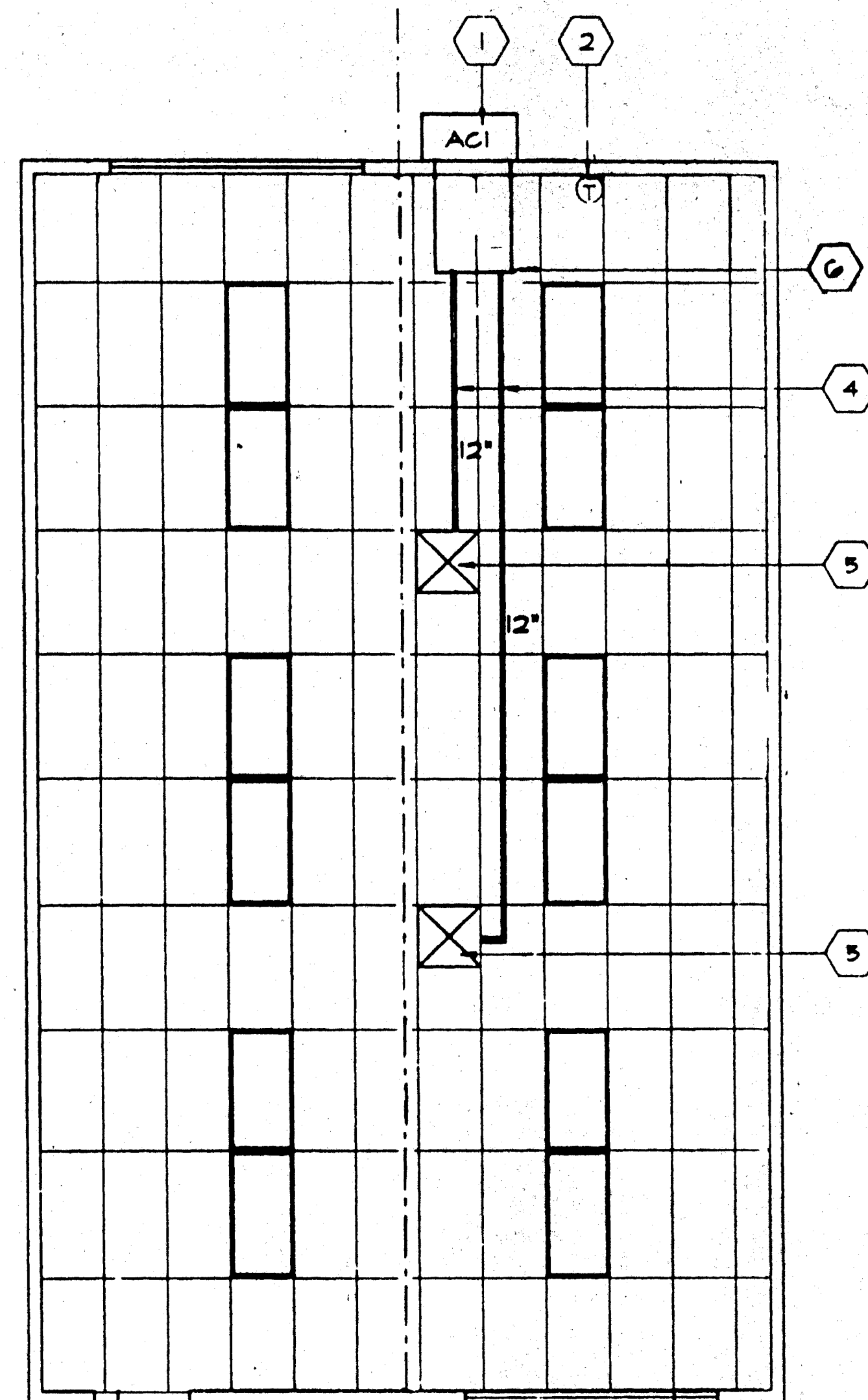


2961

FRAMING ELEVATIONS AND DETAILS

S5.1





"A" SHOWN  
"B" OPPOSITE

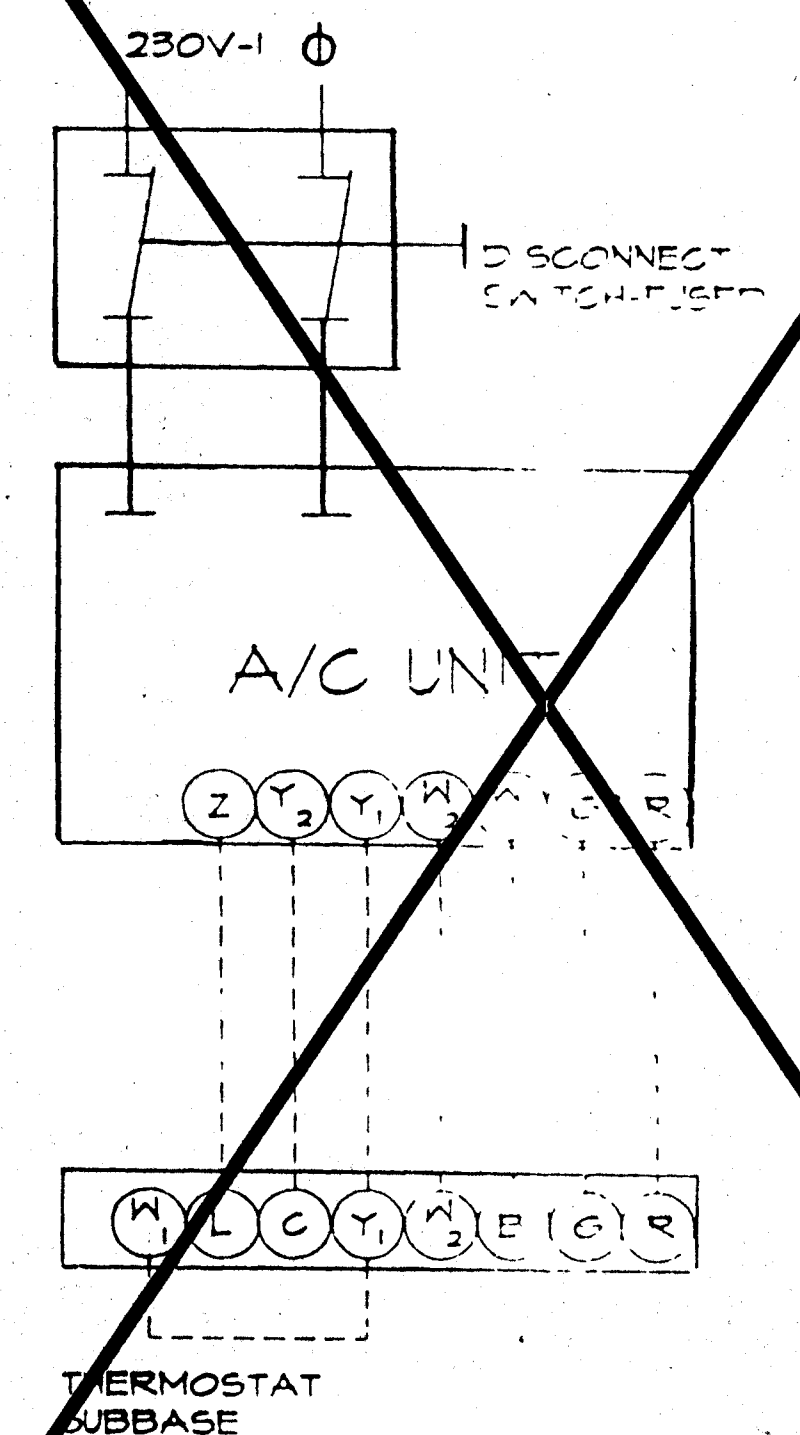
## MECH. (HVAC) PLAN

SCALE 1/4"=1'-0"

### KEY NOTES

- 1 ACI- WALL MOUNTED HEAT PUMP NOMINAL 42,500 BTUH COOL/42,500 BTUH HEAT w/ 5kw HEATER O.L.A. & CALIFORNIA. STATE ENERGY APPROVED - 1400 CFM- 208/230V 1 PHASE. MAX FLA 28 AMPS -WT.515lbs - 3 1/2 TON
- 2 T THERMOSTAT- WHITE ROGERS 1F92-71 MOUNT @ B AFF
- 3 NOT USED
- 4 FLEX DUCT
- 5 15X15 4W SUPPLY AIR GRILLE
- 6 10' x 30' x 2' PLENUM

### CONTROL SCHEMATIC



### SCHOOL EQUIPMENT ANCHORAGE

THE FOLLOWING IS FOR THE MECHANICAL ENGINEER'S INFORMATION ONLY

THE SEISMIC ANCHORAGE OF MECHANICAL EQUIPMENT SHALL CONFORM TO C.C.R. TITLE 24, SECTION 2512 (b) AND TABLE 25-P ANCHORAGE DETAILS FOR ROOF/FLOOR MOUNTED EQUIPMENT HEIGHING LESS THAN 400 LBS AND HUNG EQUIPMENT HEIGHING LESS THAN 20 LBS MAY BE OMITTED FROM THE PLANS

### FOR MECHANICAL DRAWINGS:

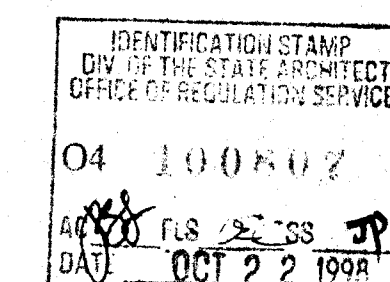
ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA.

EQUIPMENT ON GRADE	30% OF OPERATING WEIGHT
EQUIPMENT ON STRUCTURE	50% OF OPERATING WEIGHT

FOR FLEXIBLY MOUNTED EQUIPMENT USE 4 X THE ABOVE VALUES, AND FOR SIMULTANEOUS VERTICAL FORCE USE 1/3 X THE HORIZONTAL FORCE

THE ABOVE VALUES ARE FOR AN IMPORTANCE FACTOR, I = 1.0 AND SEISMIC ZONE, Z = 0.4

WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL ENGR AND THE FIELD ENGINEER OF THE OFFICE OF THE STATE ARCHITECT



ARCHITECT

ELECTRICAL

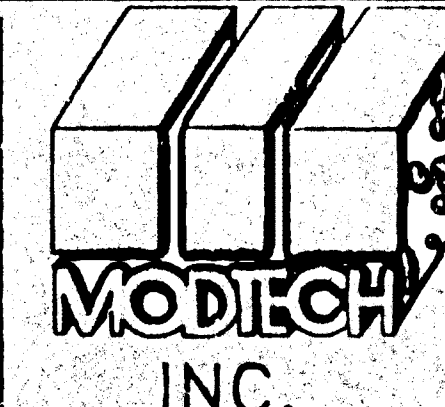
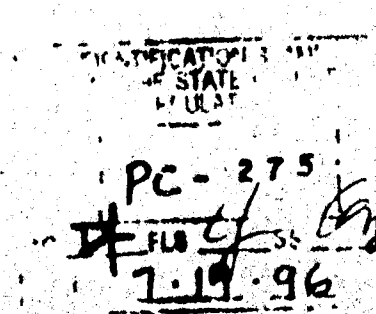
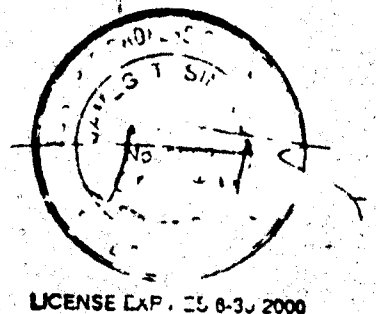
STRUCTURAL

MECHANICAL

FIRE MARSHAL

ACCESS COMPLIANCE

STRUCTURAL SAFETY



2961

MECH (HVAC) PLAN

DRAWN BY  
DATE  
CHECKED BY  
DATE

M1.0





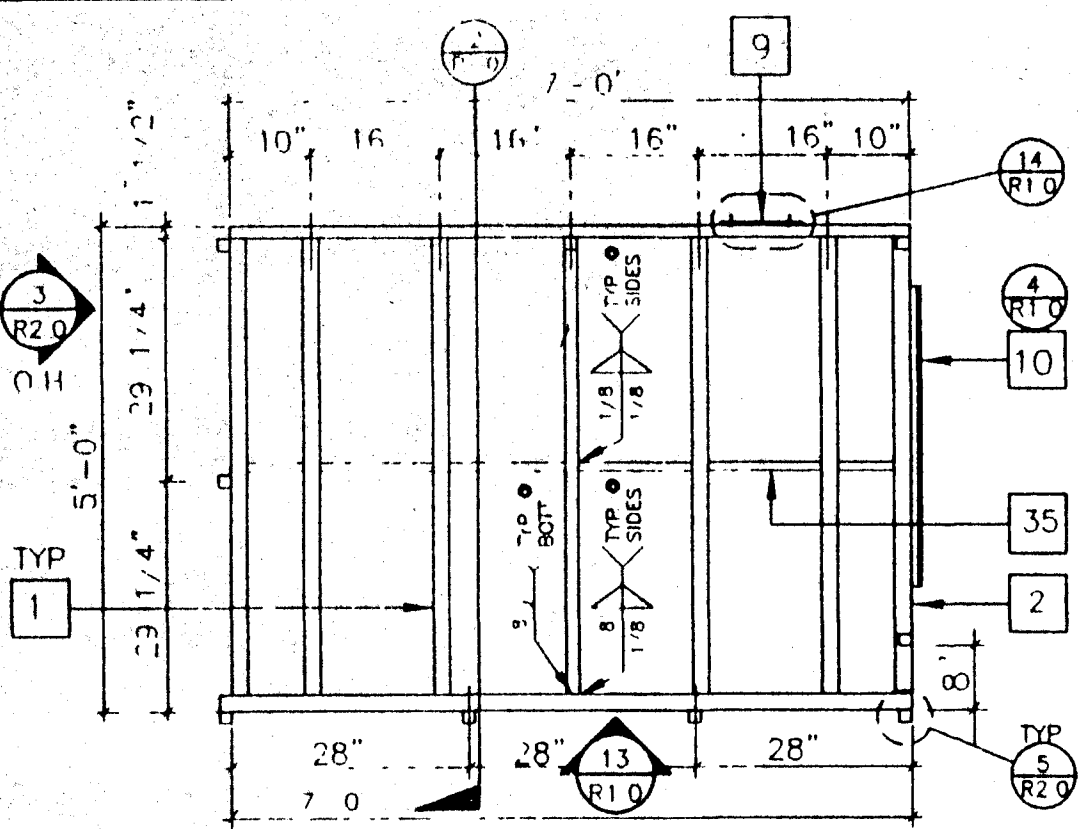
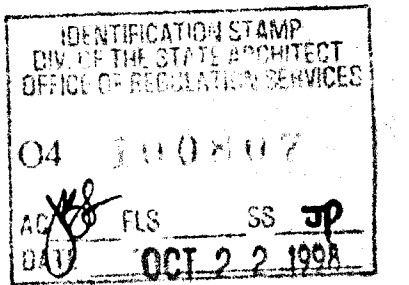


KEY NOTES

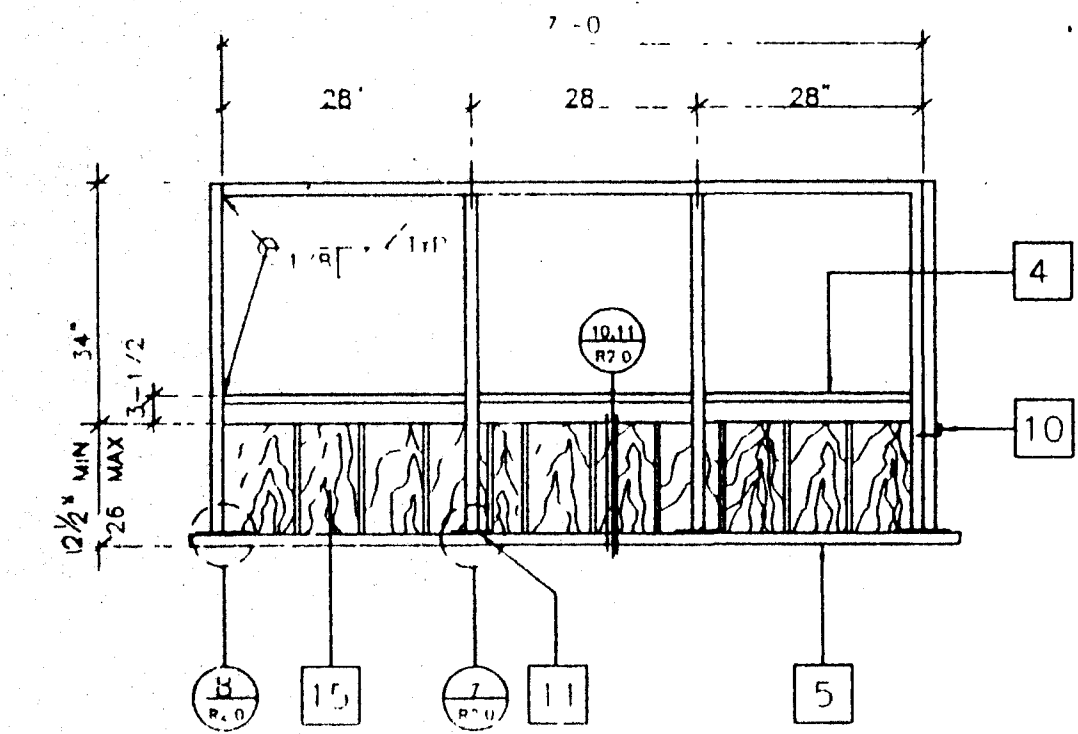
- 1 TS 2" x 2" x 14ga  
2 TS 1 1/2" x 1 1/2" x 14ga (Fy = 39KSI)  
4 TS 1" x 1" x 16ga WHEELCHAIR GUIDE  
5 2 x 6 PT SILL PLATE  
6 6" x 10ga CONT. PLATE W/ 1/4" X 2" TEK SCREWS @ 9" OC INTO WOOD OR FOUND. BLOCKS OR #14 x 2" TEK SCREWS INTO STEEL @ 9" OC  
9 6" x 12" x 10ga PLATE W/ 2-1/4" x 3" LAGS TO STRUCTURAL FRAME OF BUILDING  
10 3" x 1" x 3'-0" x 10ga BENT PLATE  
11 2" x 4" x 12ga BASE PLATE W/ 2-1/4" x 1" LAGS  
12 6" x 10" x 12ga BASE PLATE @ RAMP TOE  
13 LINE OF RAMP/LANDING ABOVE  
14 LOWER LANDING BY DISTRICT  
15 SKIRTING: PLYWOOD TO MATCH BUILDING SIDING. BLOCK ALL EDGES. ATTACH W/ 8d @ 6" OC EDGES AND 12" OC FIELD. AT EDGE CONNECTION TO T.S. USE #14 x 2" TRK SCREWS @ 6" OC  
16 12ga METAL DECK. NON-SLIP SURFACE. DESIGN COEFFICIENT OF FRICTION GREATER THAN 6% MAINTAINABLE FOR 1 YR  
17 RAMP EXTENSION FRAME.  
18 EXISTING BUILDING  
27 RAMP BY MODTECH  
28 FLUSH TRANSITION  
31 NOTCH BOTTOM PLATE (MUD SILL) AS REQUIRED TO CLEAR RAMP TOE MAX NOTCH 1 1/2" x 4'-0" LONG  
35 TS 1" x 1" x 16ga

NOTES

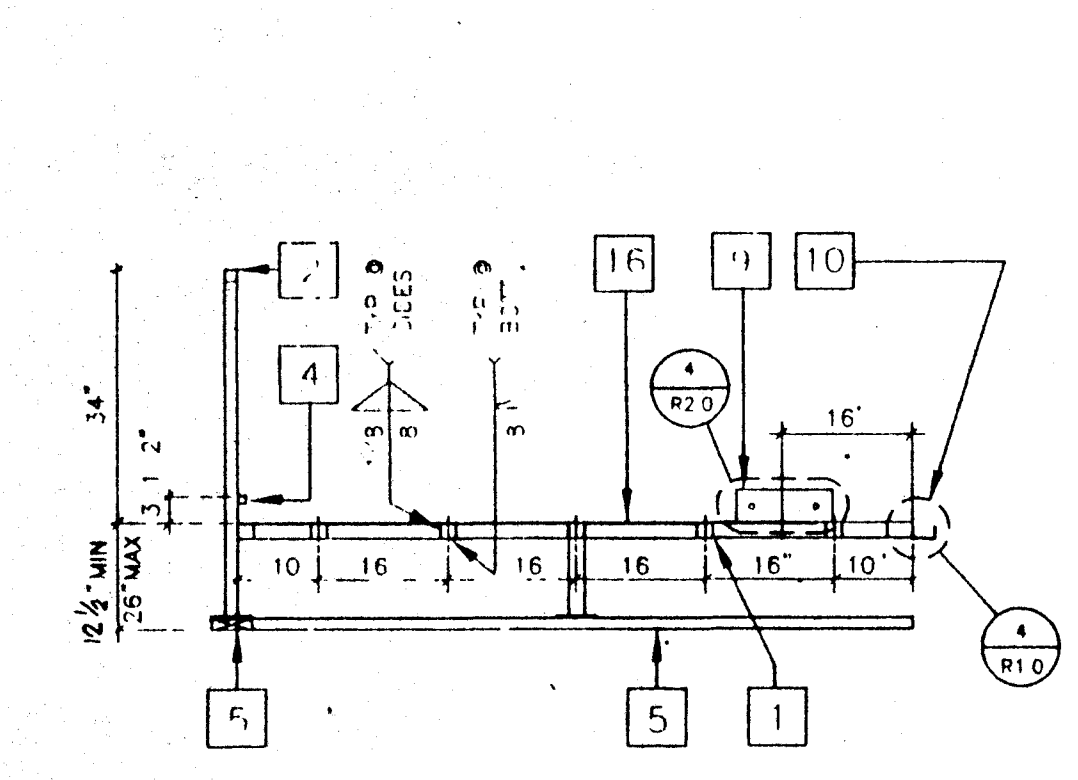
- 1 RAMPS: RAMPS SHALL NOT SLOPE MORE THAN 1" IN 12"  
2 HANDRAILS: HANDRAILS AT BOTH SIDES OF RAMP AT 34" O.C.  
3 SURFACE: LANDING & RAMP TO HAVE NON SLIP SURFACE AMCOR GRIP II AS MANUFACTURED BY AMERICAN CHEMICAL COMPANY (OR EQUAL)  
4 GROUNDING: PROVIDE GROUNDING OF RAMP TO BLDG FRAME W/ #8 CU TO BOTH GROUND LUGS.  
5 ARCHITECT SITE / RAMP / LANDING PLANNING: DUE TO VARYING SITE CONDITIONS THE MAXIMUM HEIGHT OF FINISH FLOOR FROM GRADE IS 26" THEREFORE IT IS POSSIBLE THAT THE ACCESS RAMP ATTACHED TO THE BUILDING COULD BE 26'-0" AT A SLOPE OF 1:12 ARCHITECT MUST TAKE INTO ACCOUNT THAT THE RAMP SUPPLIED BY MODTECH INC. IS 11'-0" AT A SLOPE OF 1:12 THEREFORE THE ARCHITECT WILL HAVE TO DESIGN AND PROVIDE SUFFICIENT DETAILS OF RAMP EXTENSIONS AND BOTTOM LANDING DEPENDING ON PARTICULAR SITE CONDITIONS. IN NO WAY IS MODTECH INC RESPONSIBLE FOR ANY RAMP EXTENSION EXCEEDING THE ORIGINAL PLAN AS SHOWN ON SHEET R-1.  
6 ALL 1 1/4" AND 1 1/2" TUBE STEEL TO BE OF ASTM A500 GRADE A STEEL (Fy = 39 KSI)



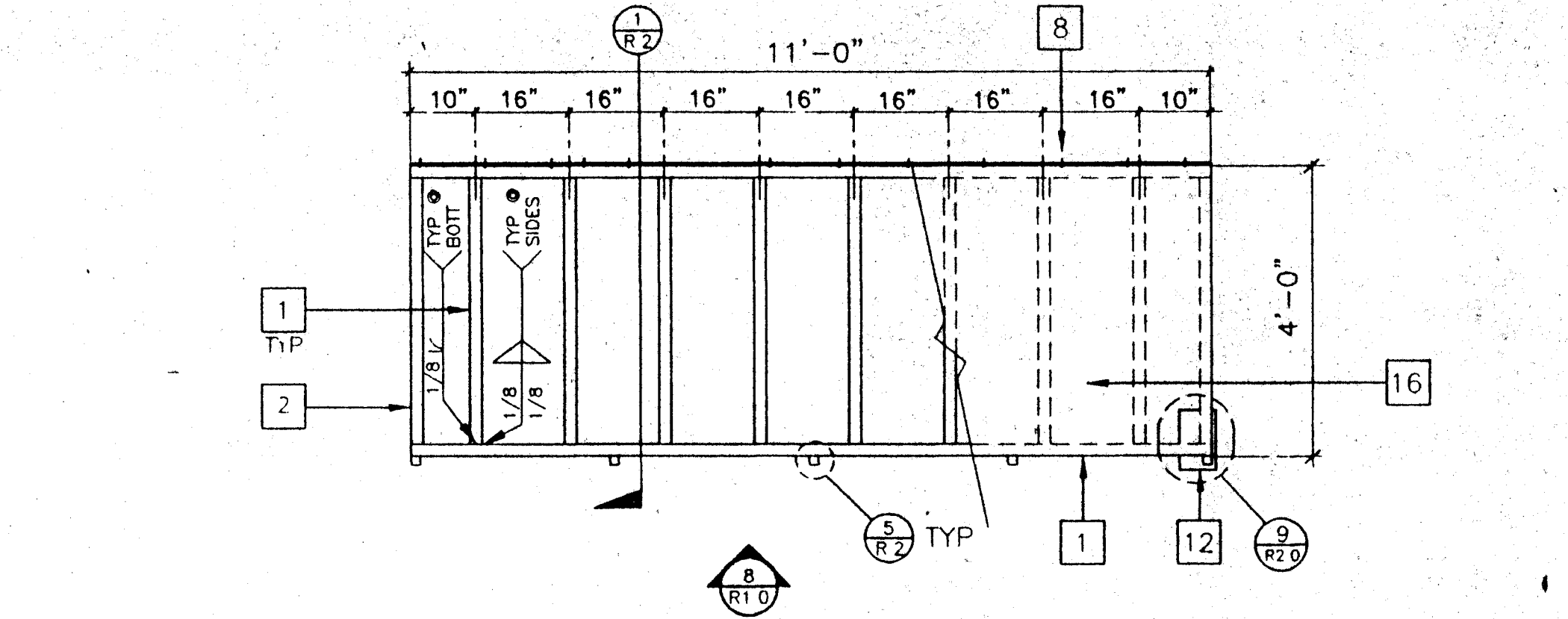
LANDING FRAME



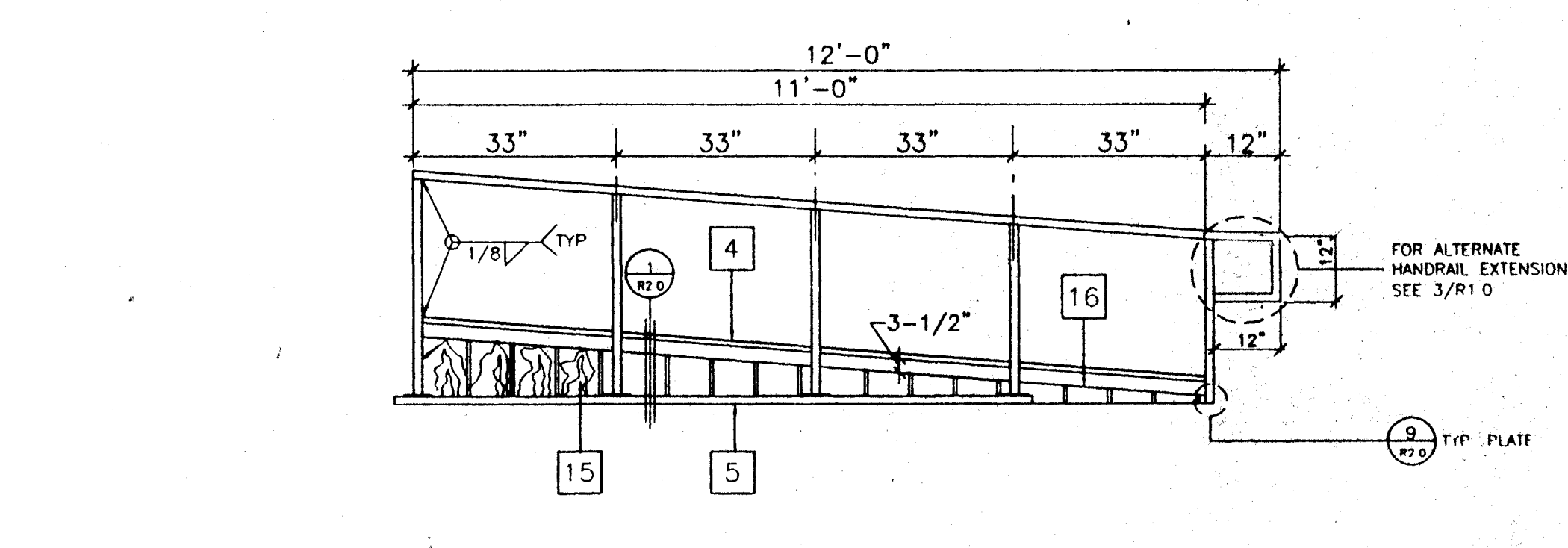
LANDING ELEVATION



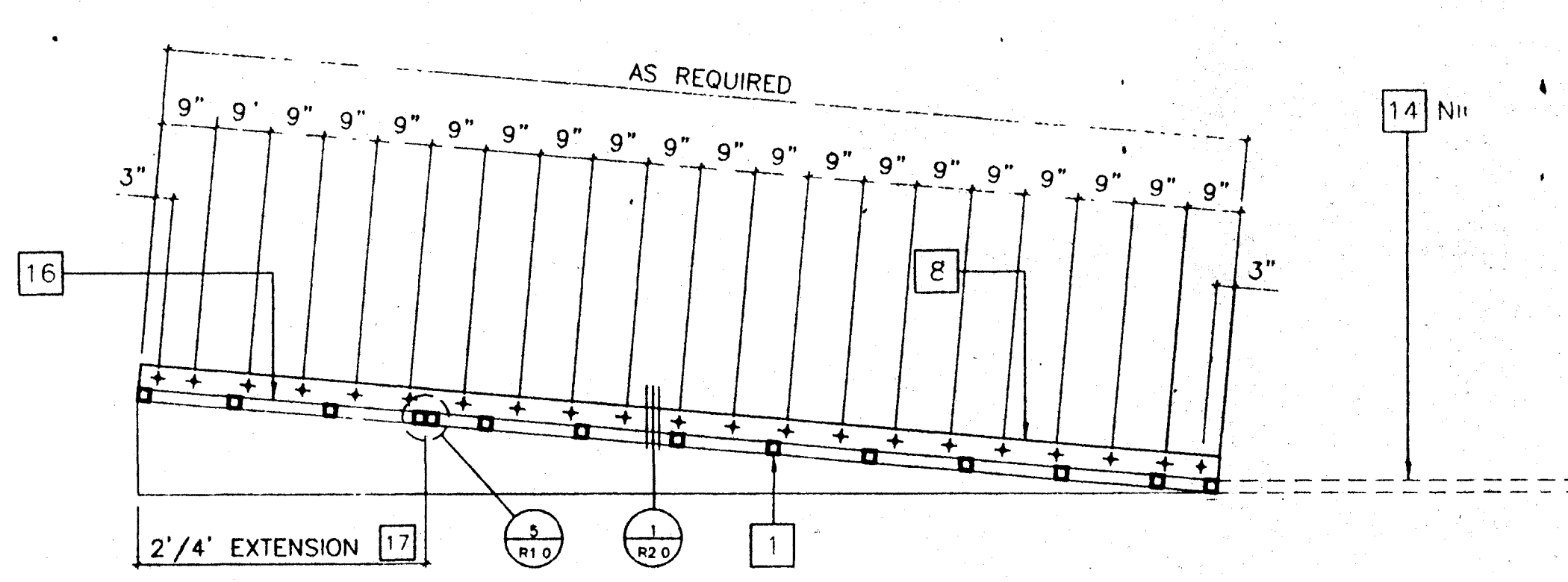
LONG. SECTION @ LANDING



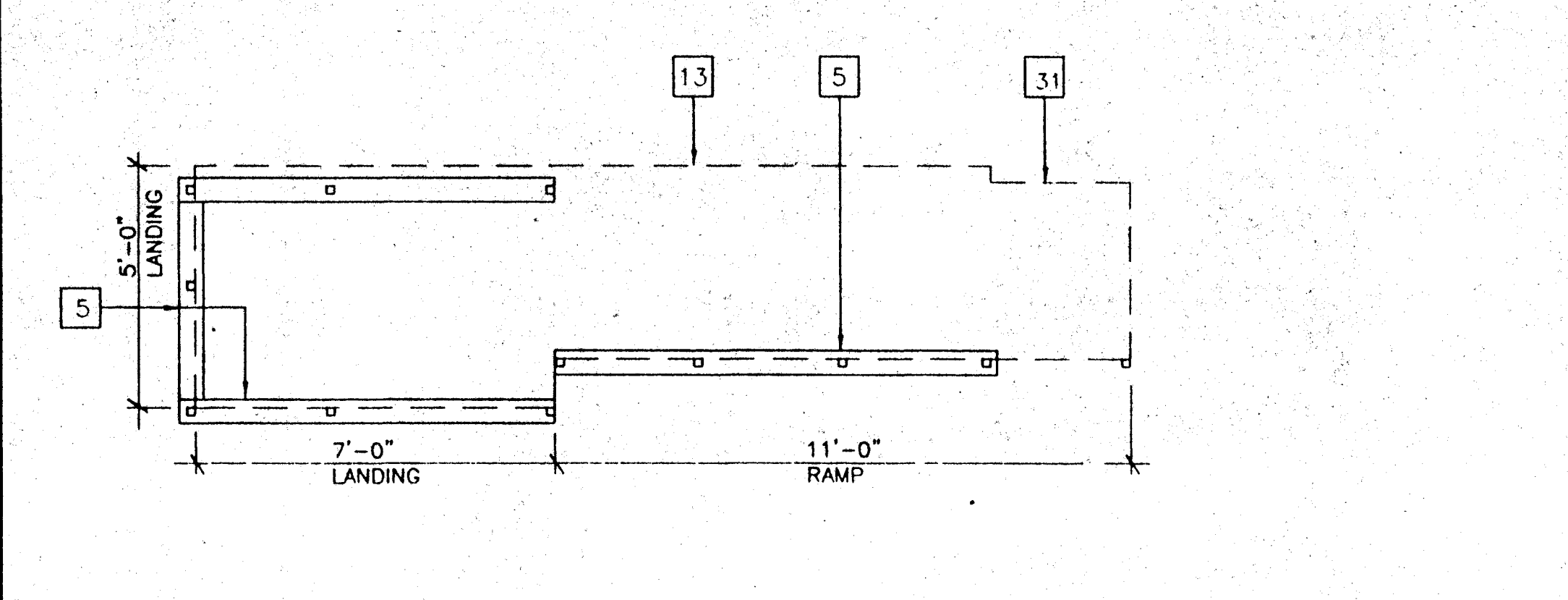
RAMP FRAME



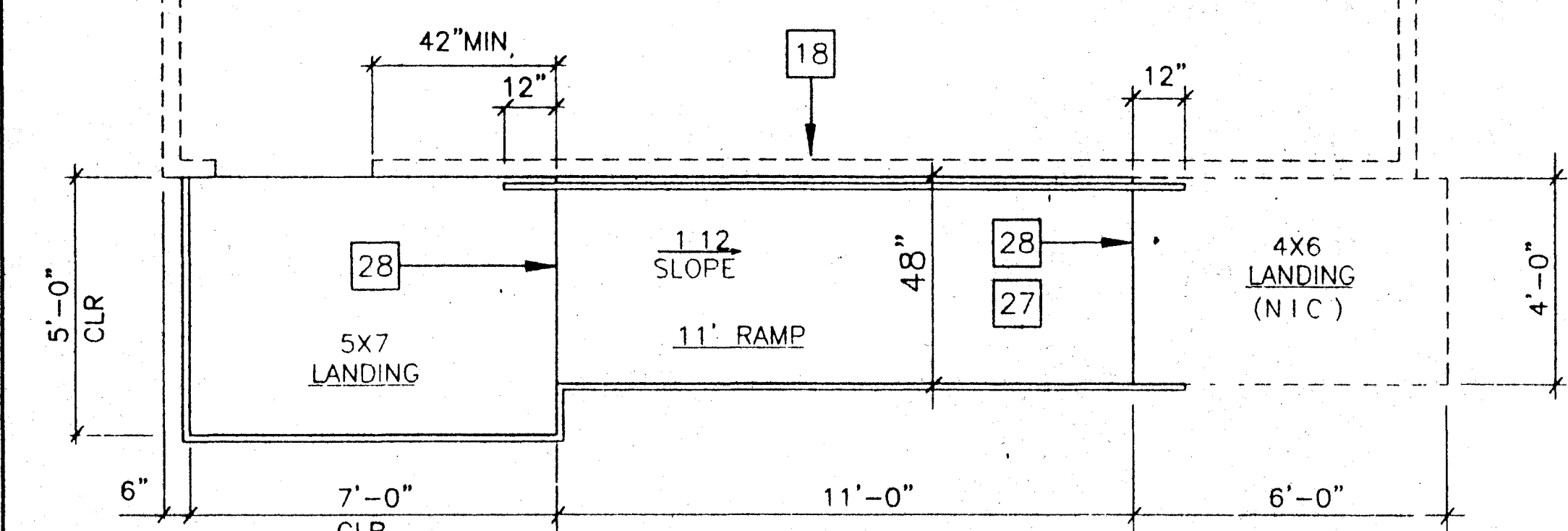
RAMP ELEVATION



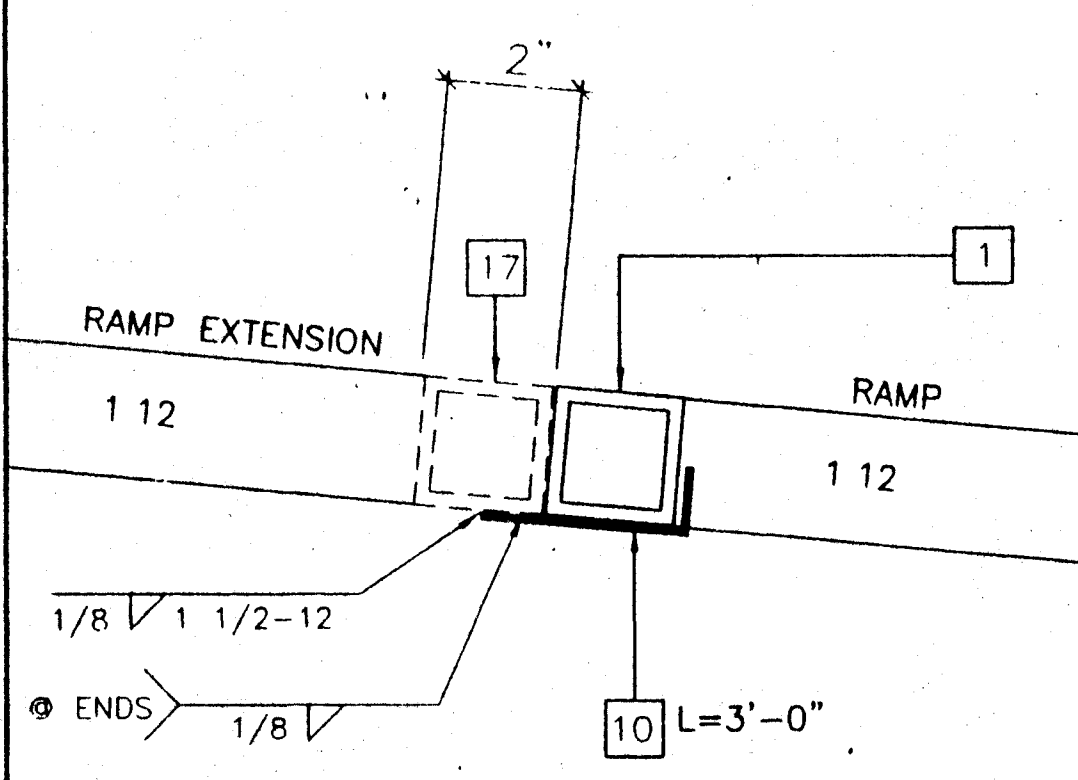
LONGITUDINAL SECTION @ RAMP



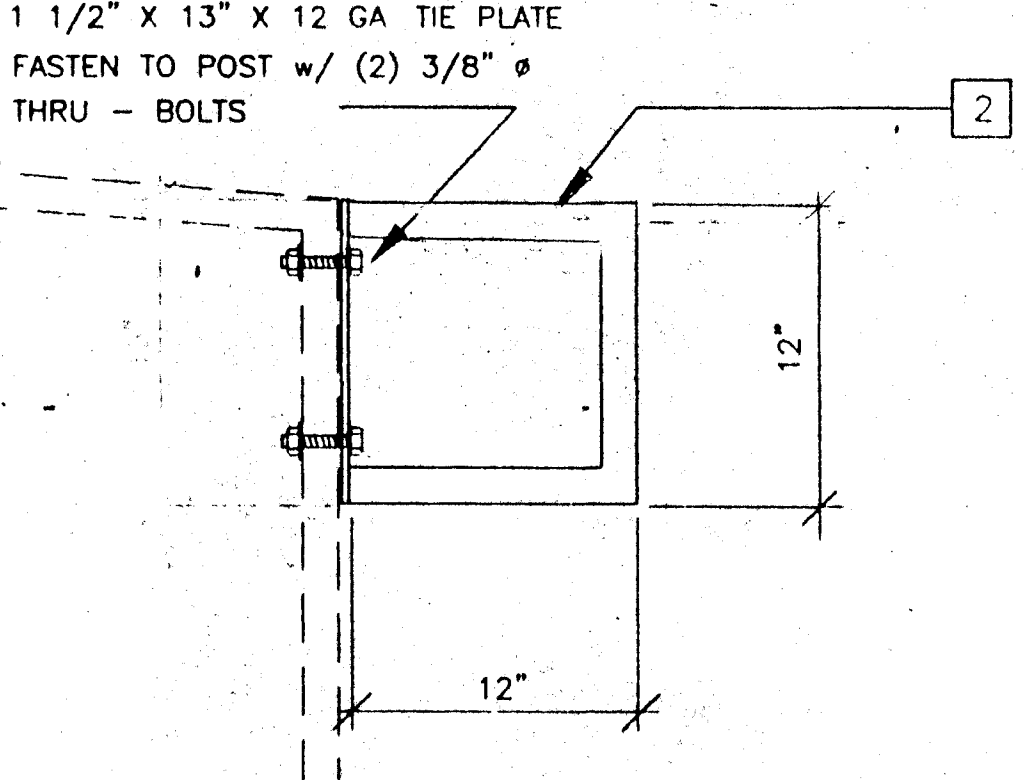
SILL PLAN FOR RAMP AND LANDING



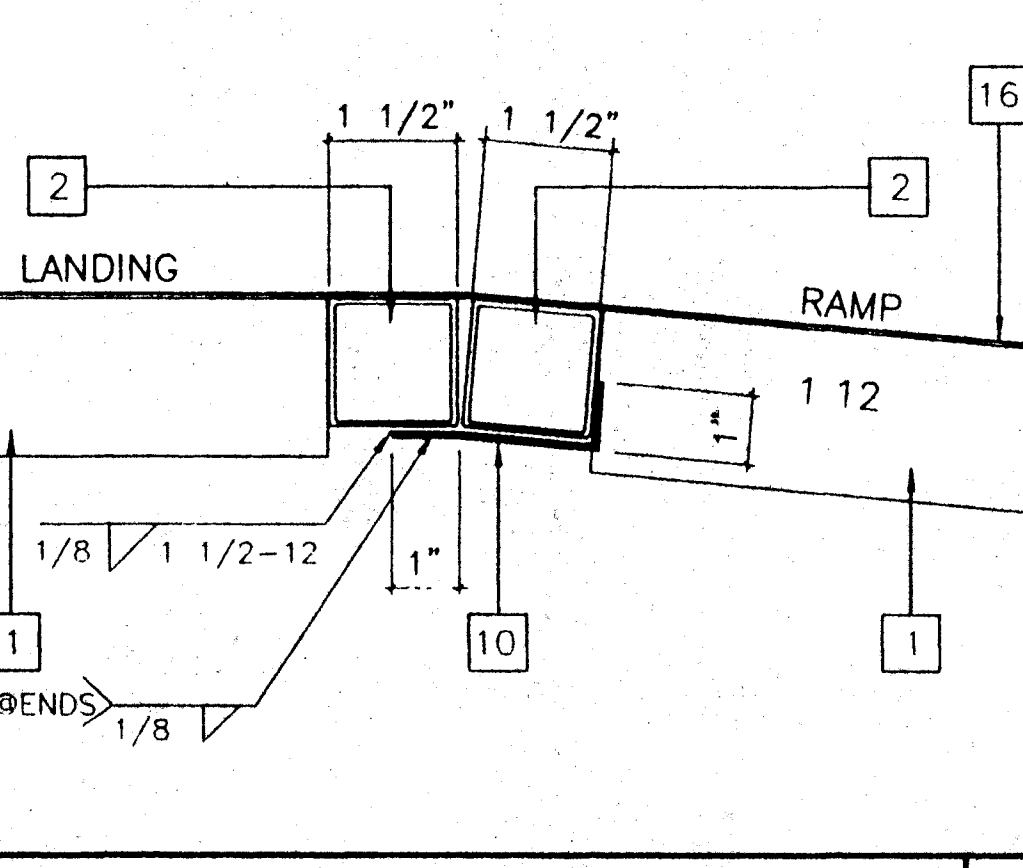
RAMP AND LANDING AT BUILDING



RAMP EXTENSION TO RAMP



GUARD RAIL EXTENSION



LANDING TO RAMP

REVISIONS

NO.	DESCRIPTION	DATE
1		
2		
3		
4		
5		

Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architect's Seal

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
PC 275  
AC: FLS SS: [Signature]  
DATE: JAN 21 1997

MODTECH INC.  
2830 BARRETT AVENUE  
PERRIS, CALIF 92572  
PH (909) 943-4014  
FAX (909) 940-0427

Job Number PC 275  
2961

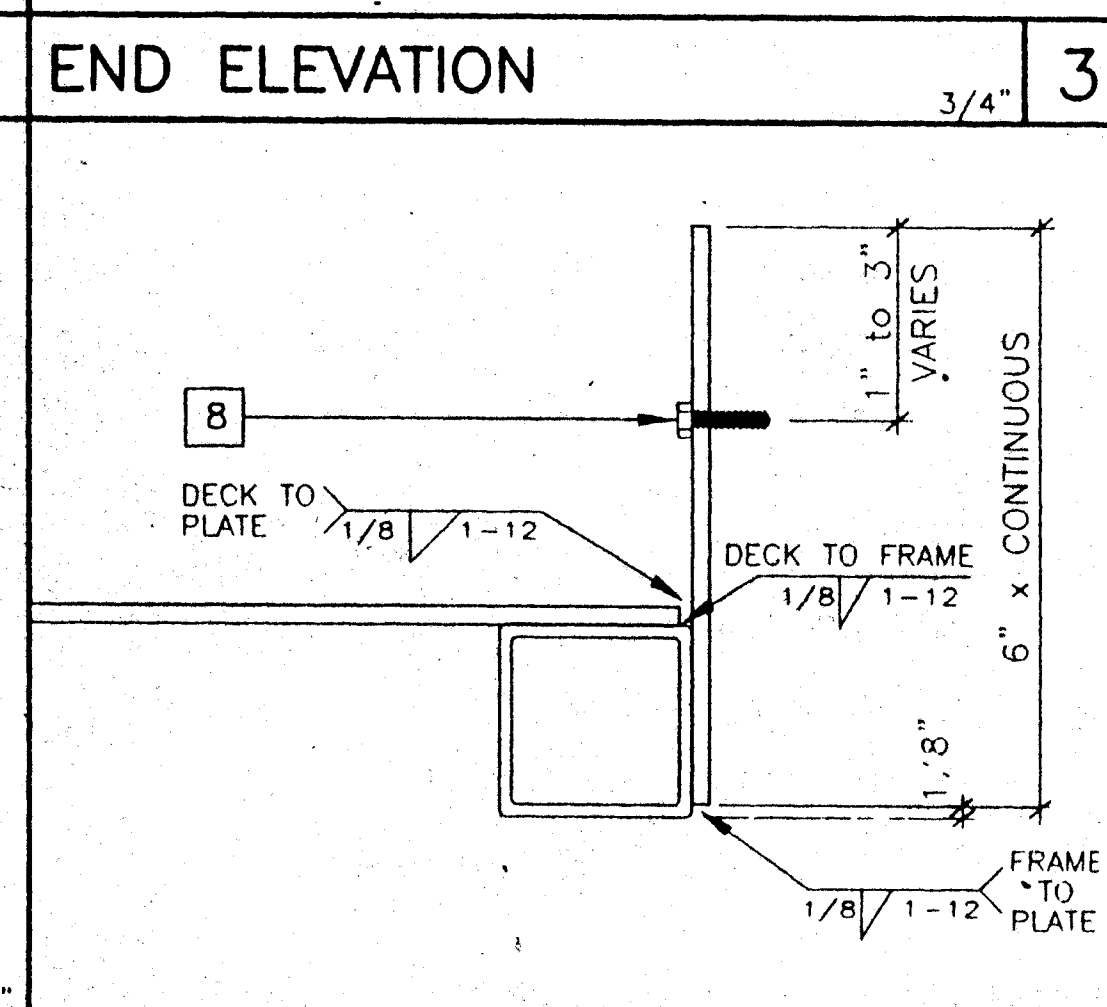
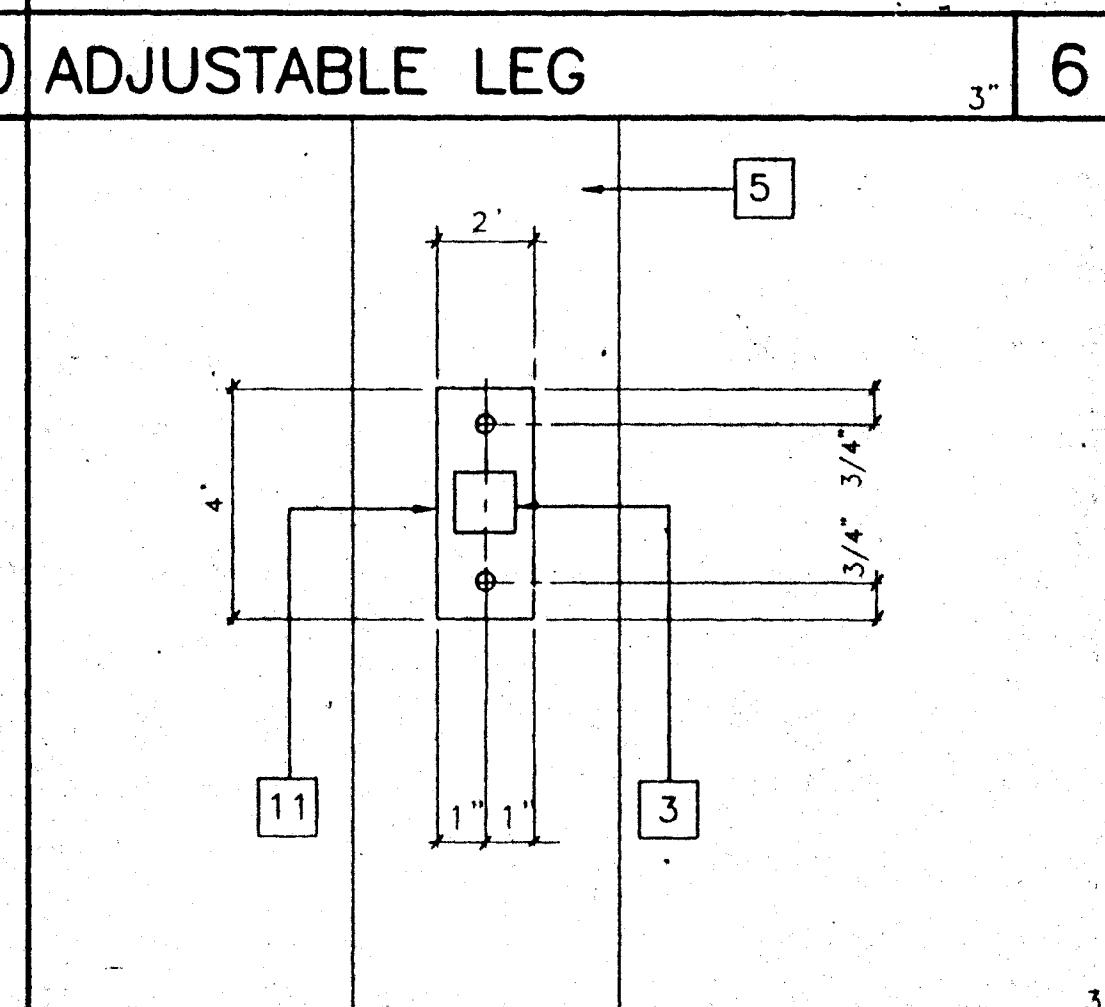
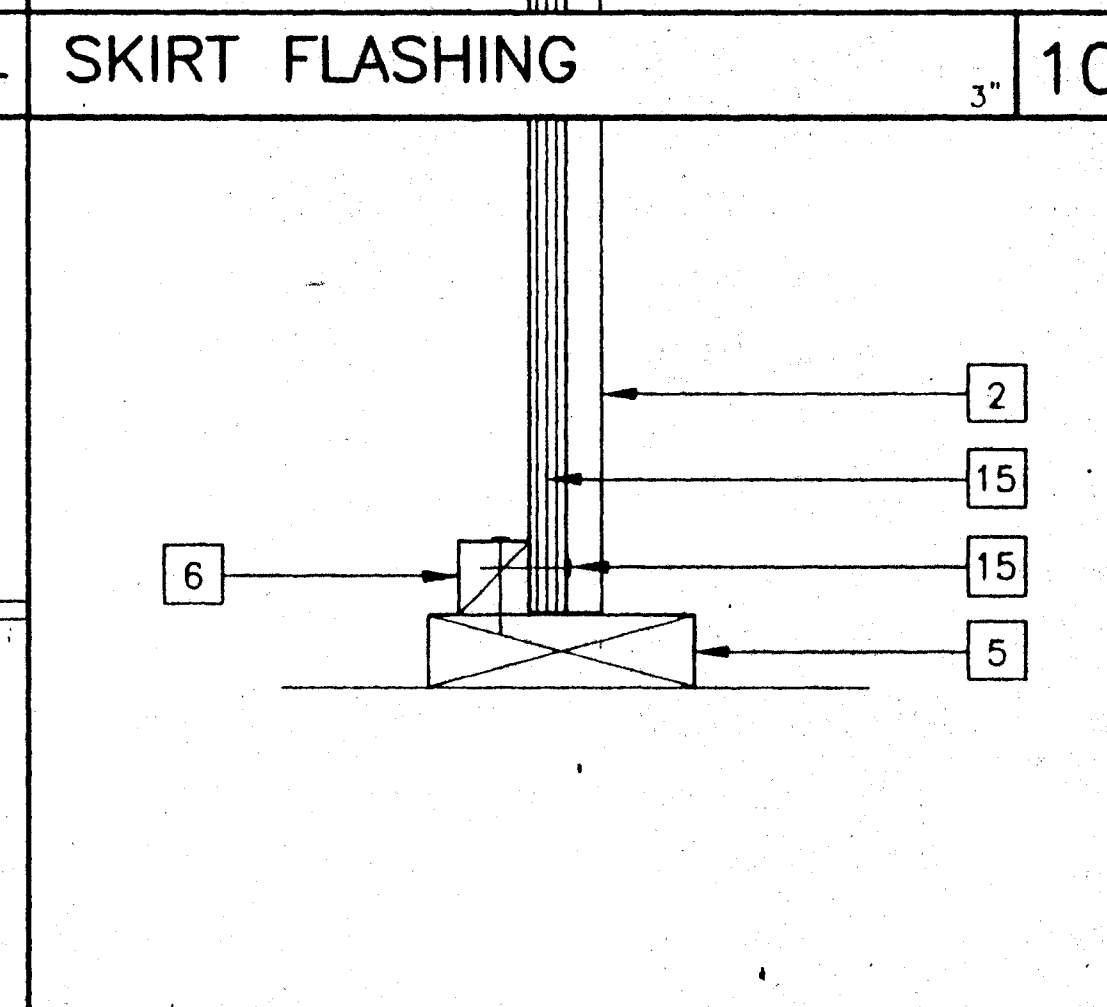
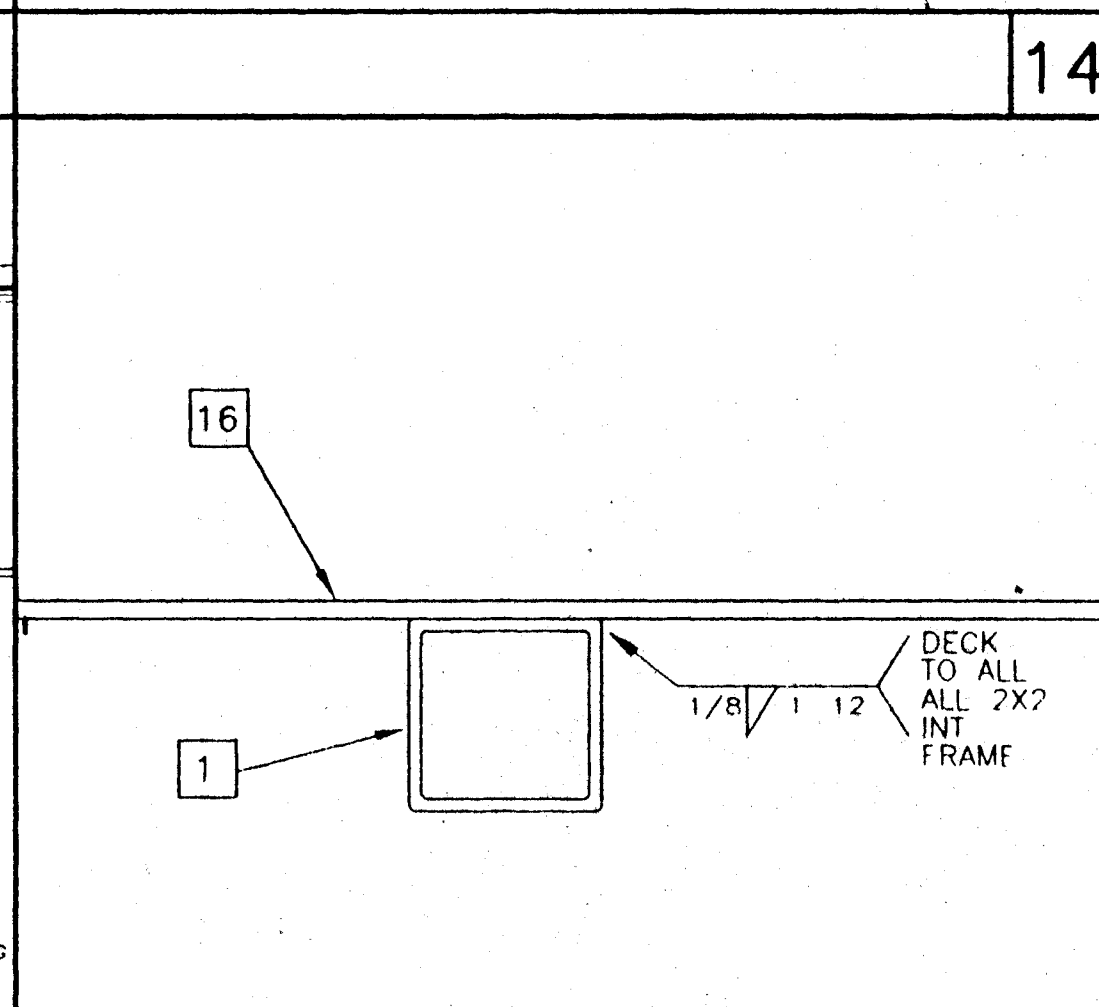
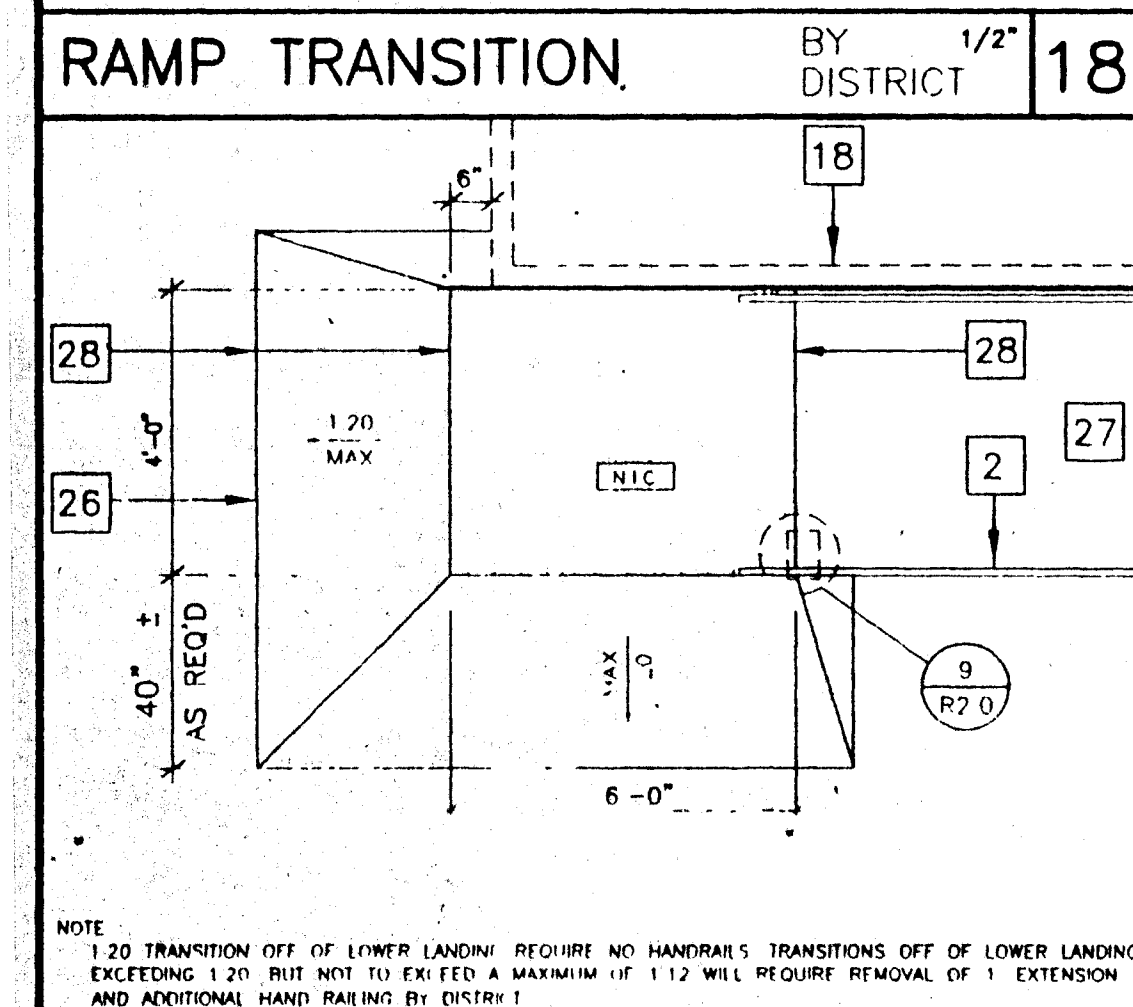
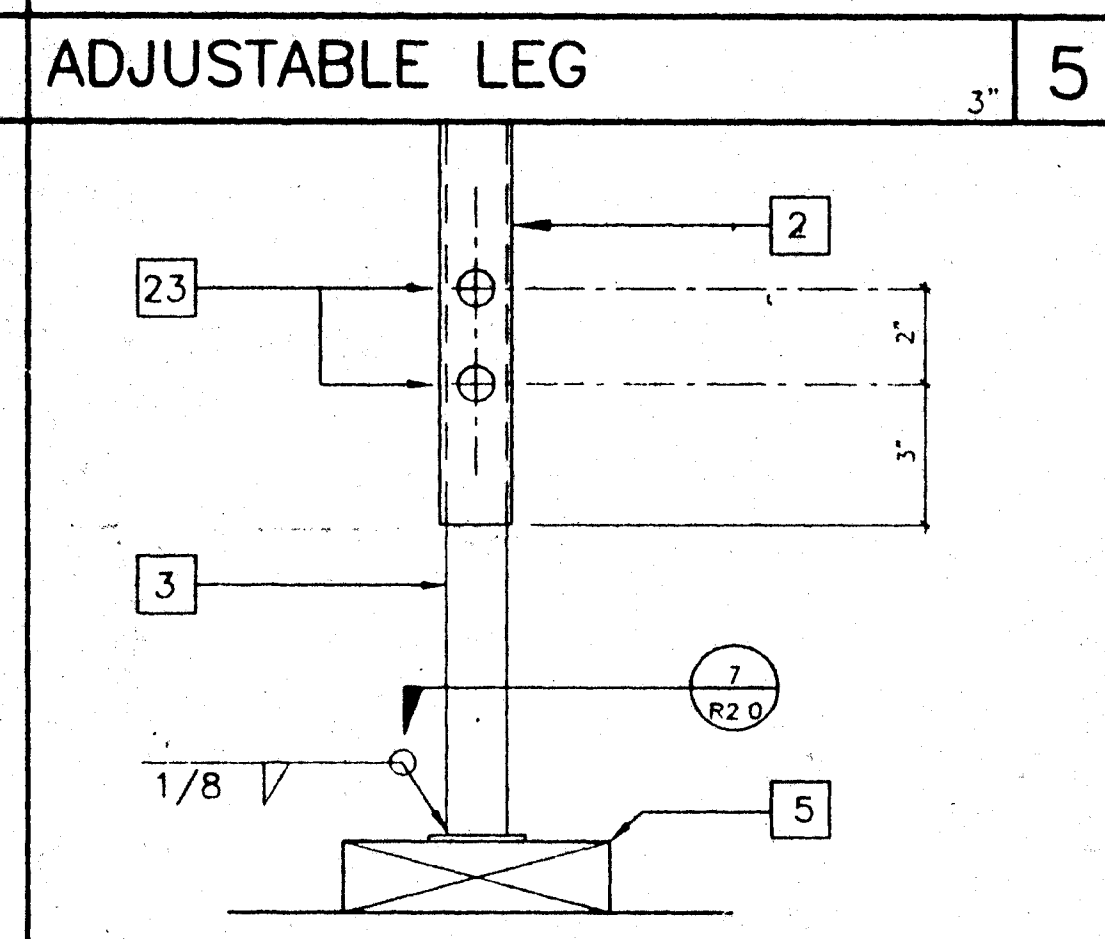
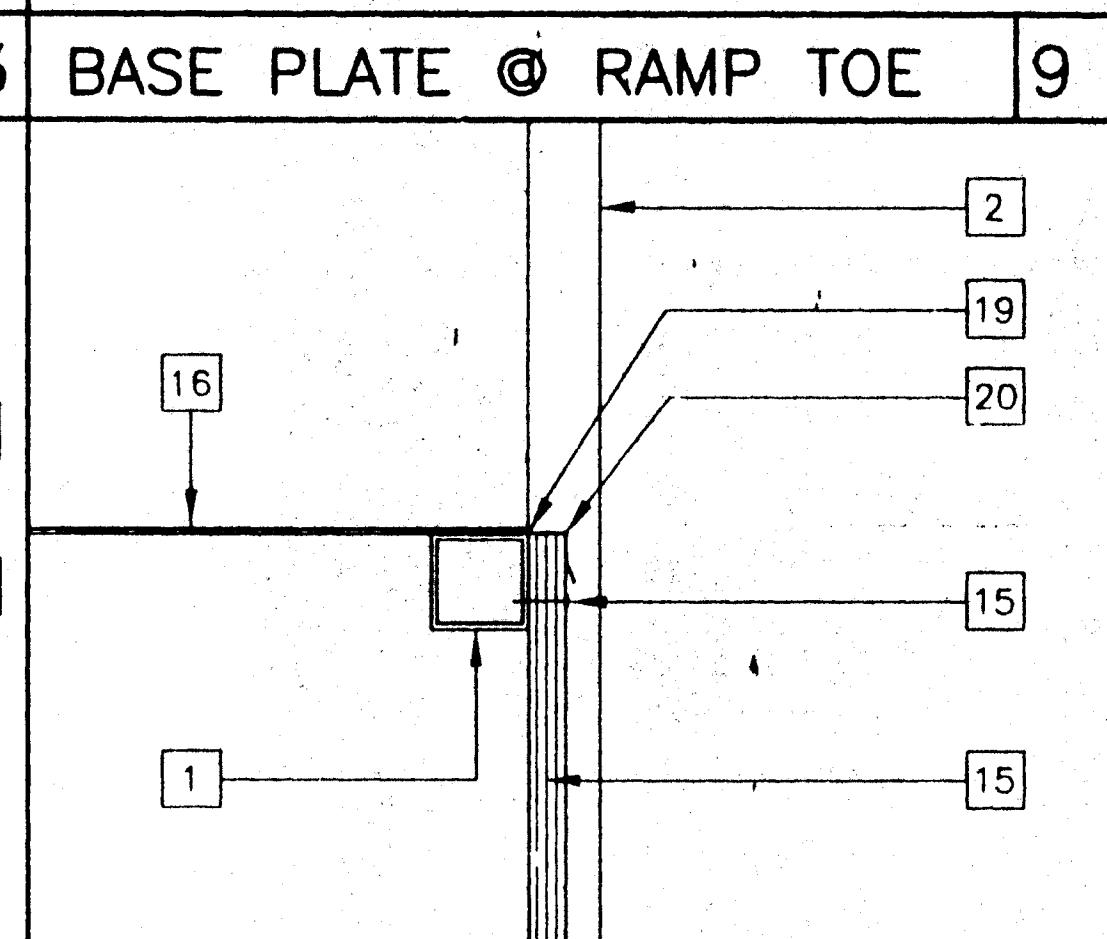
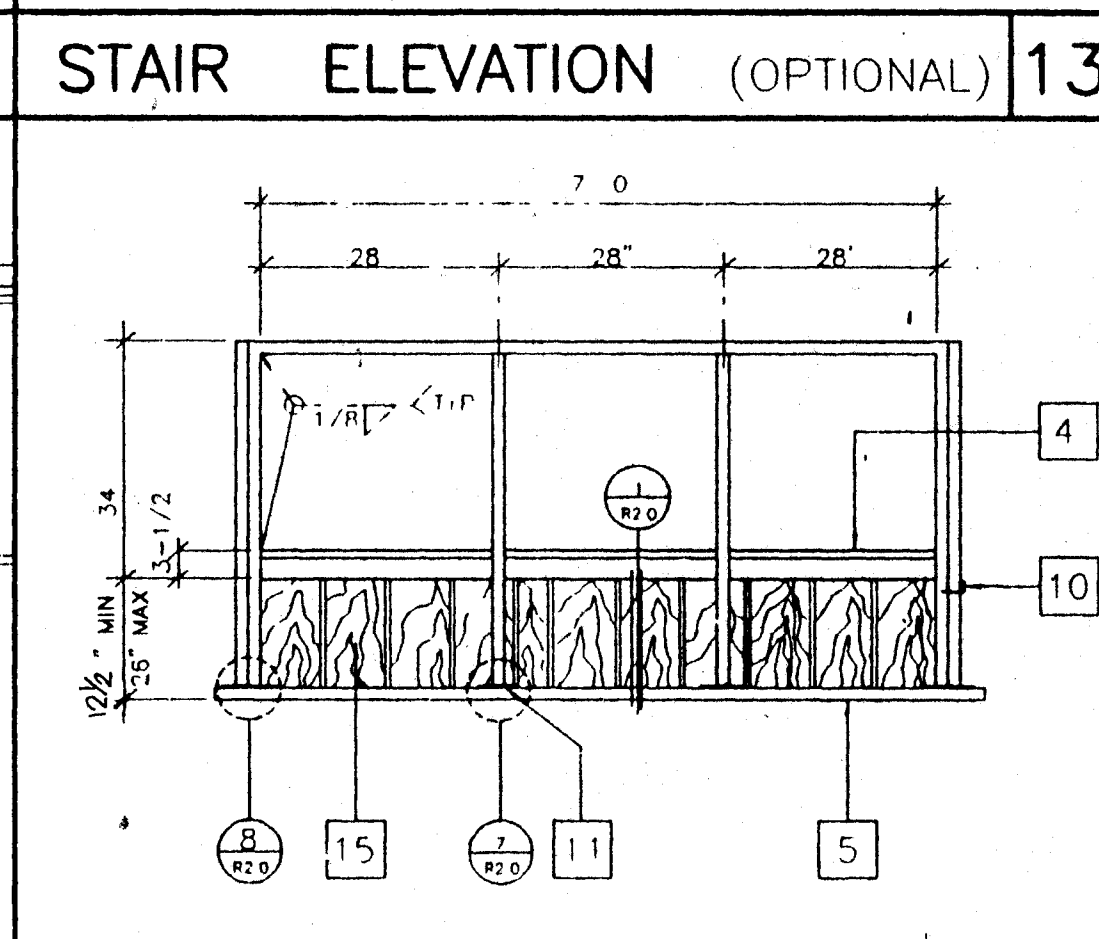
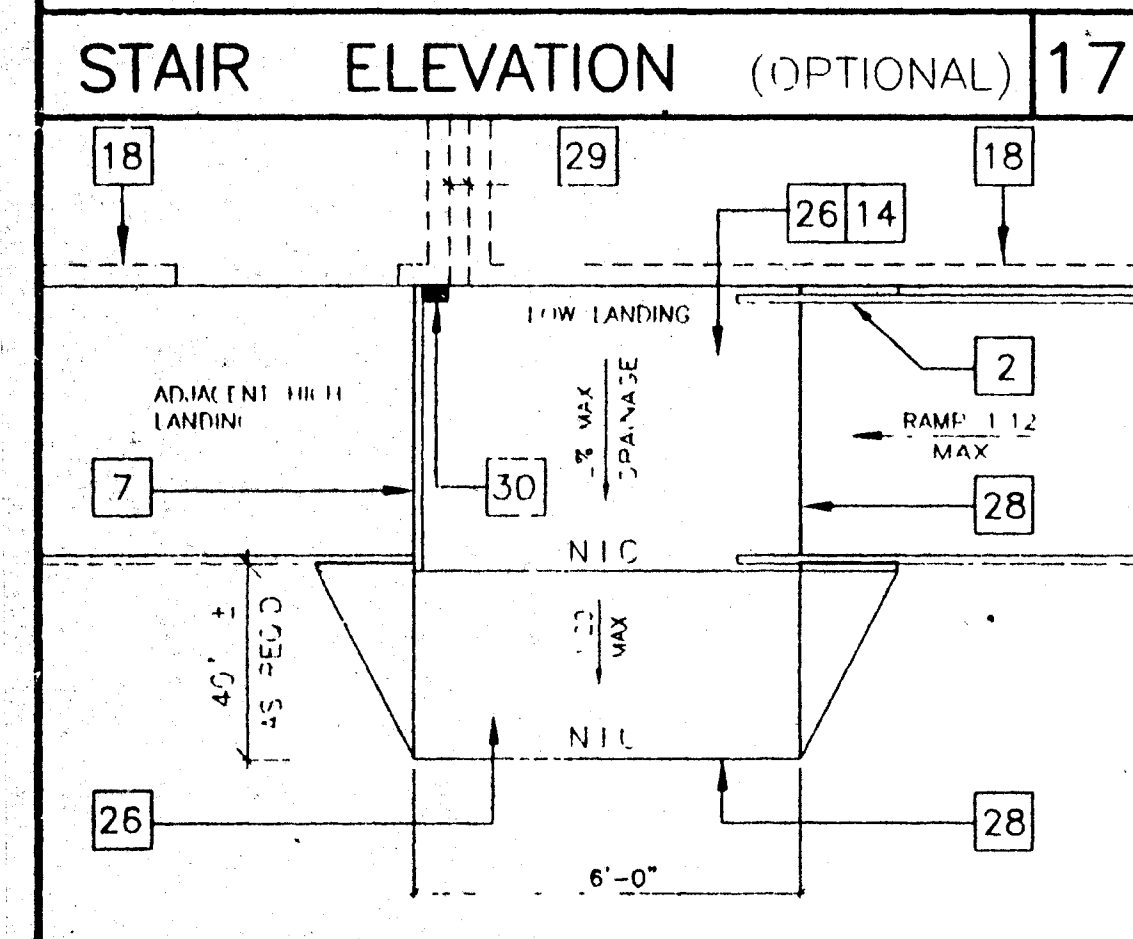
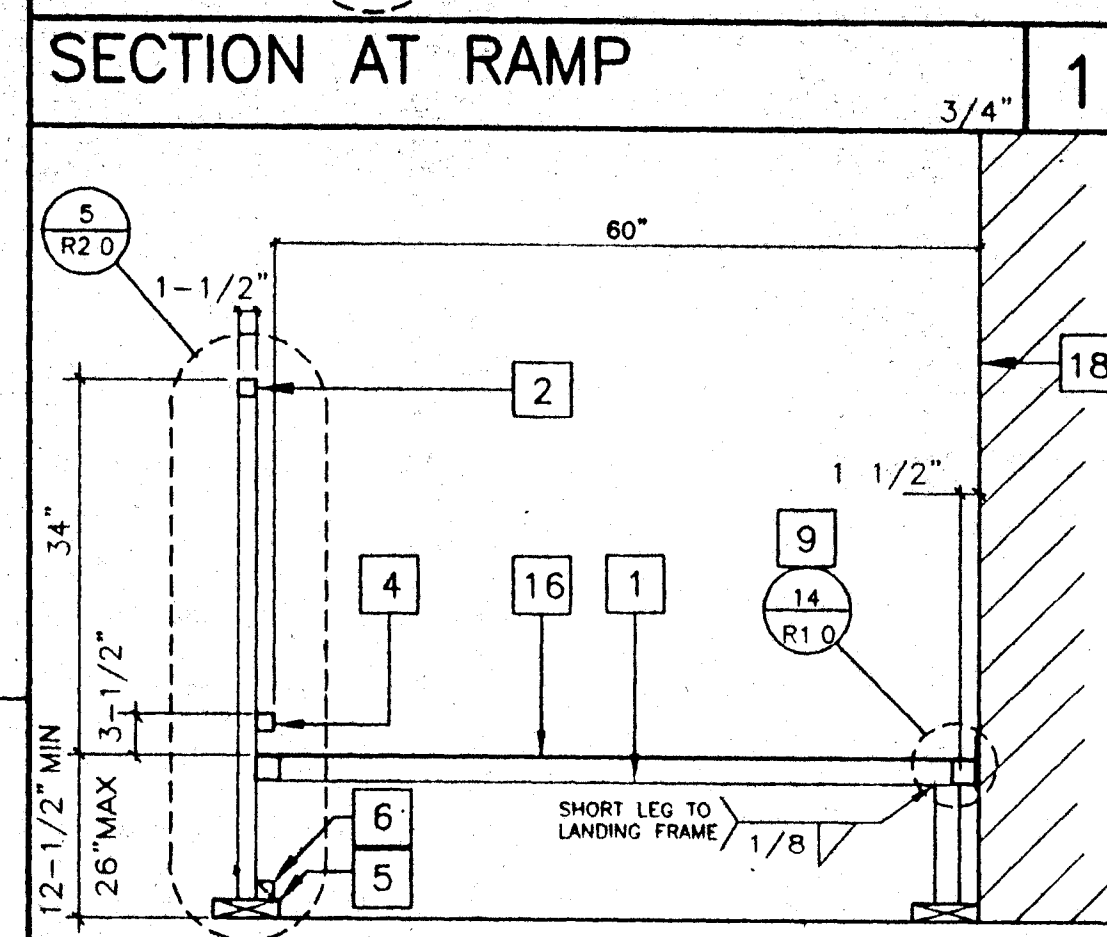
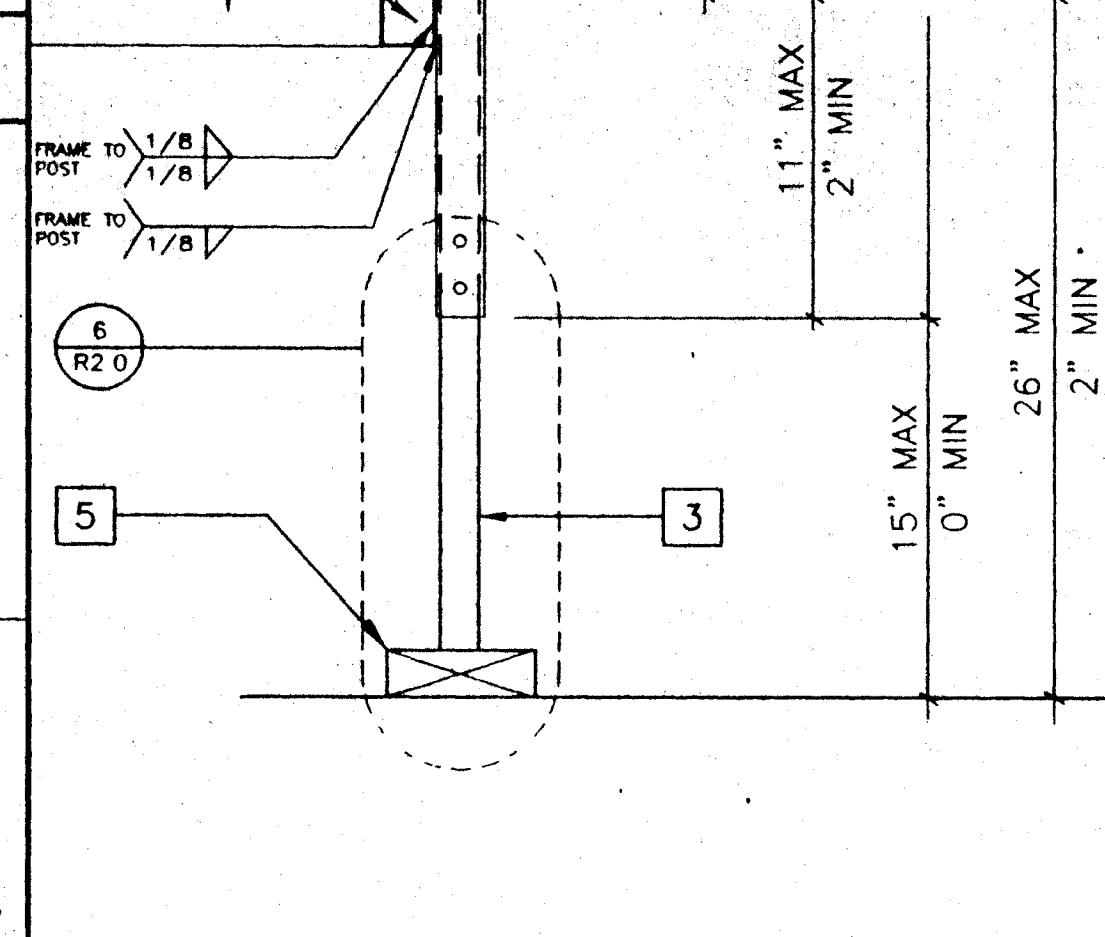
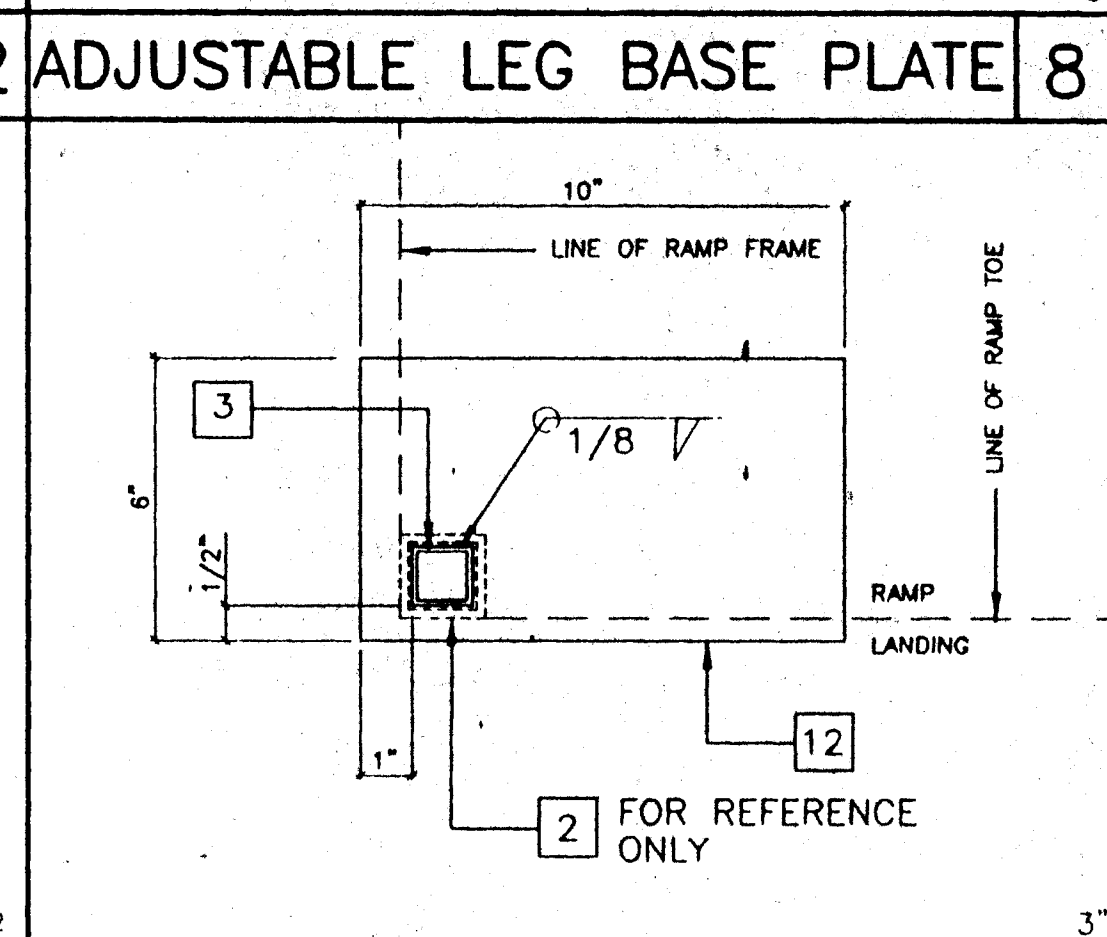
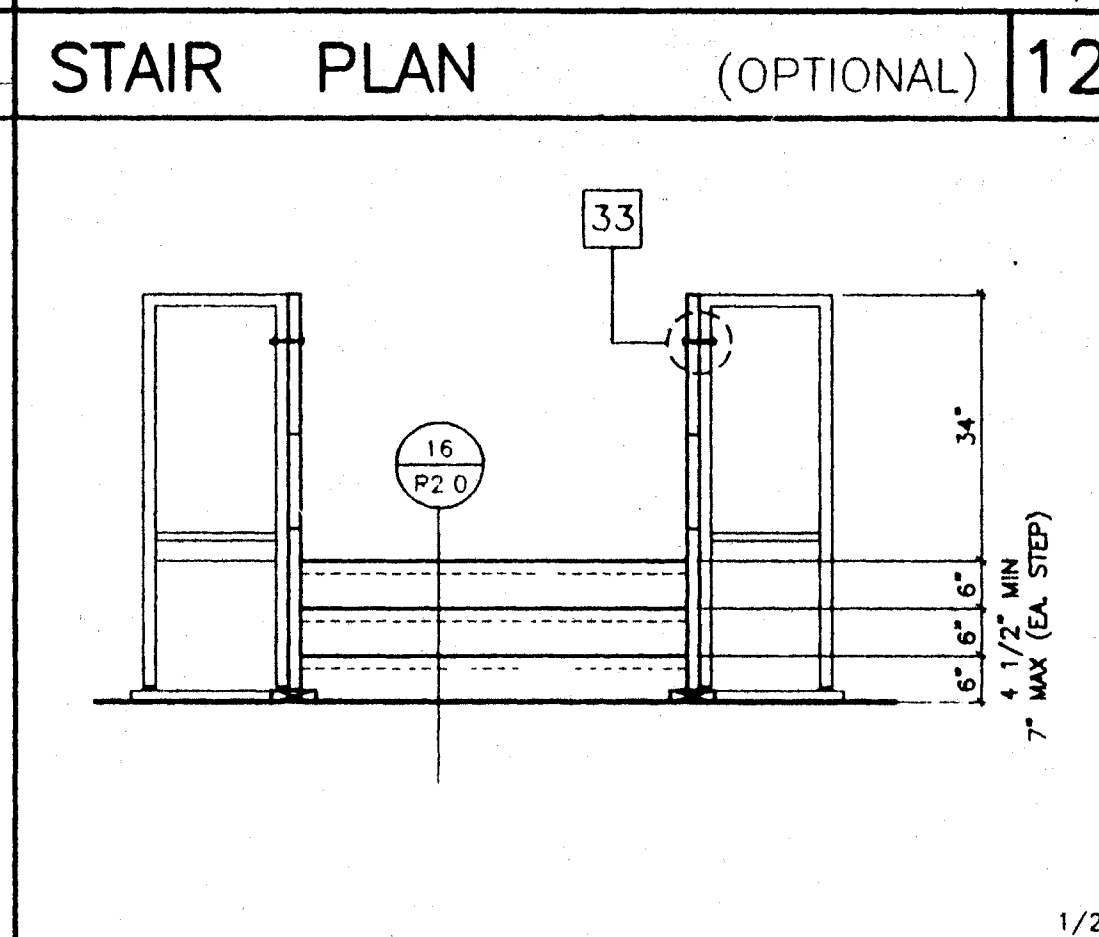
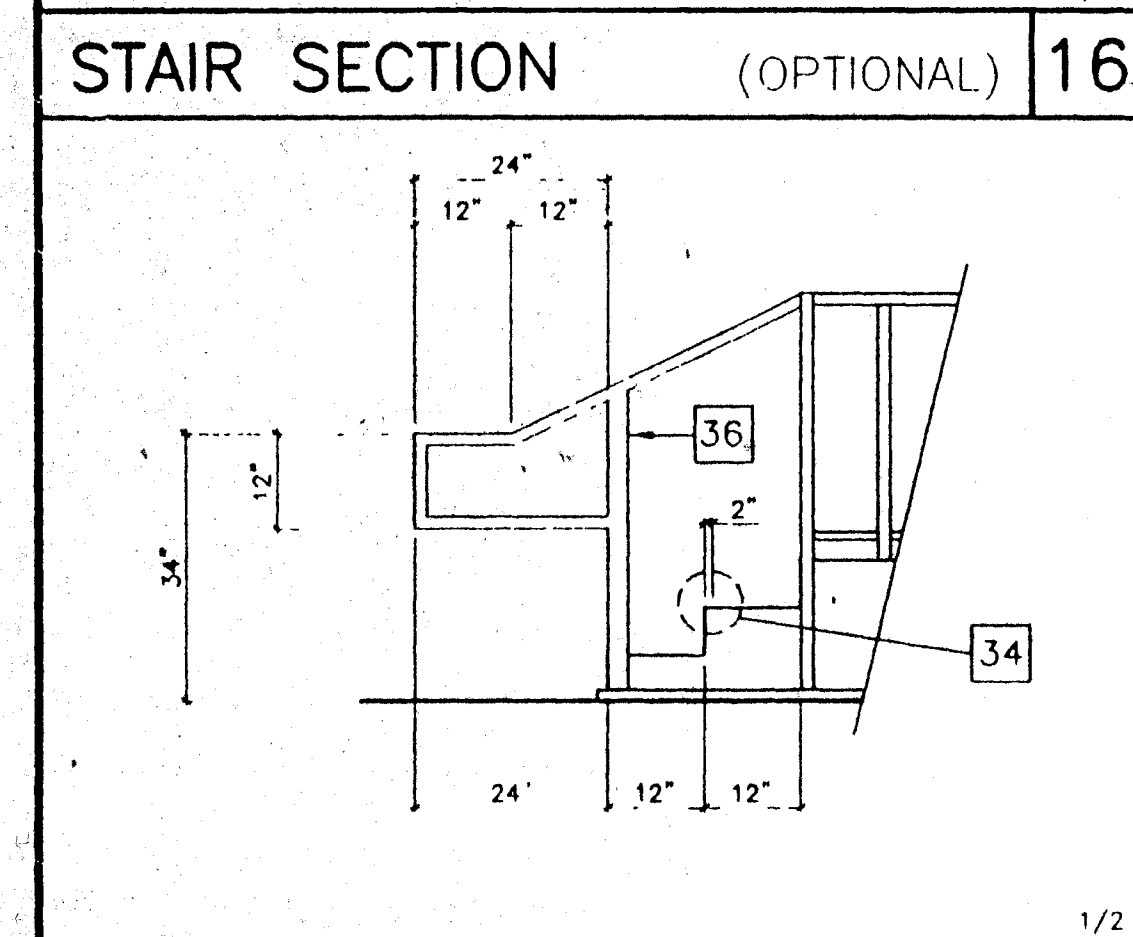
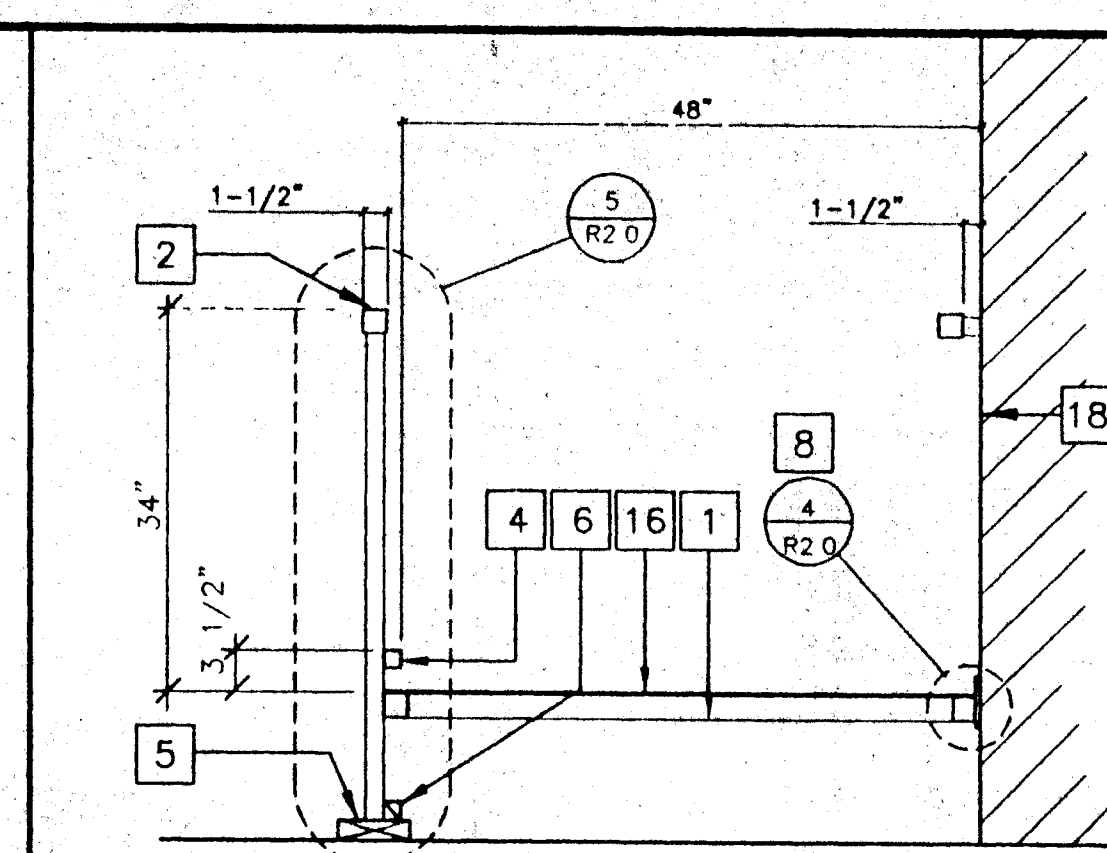
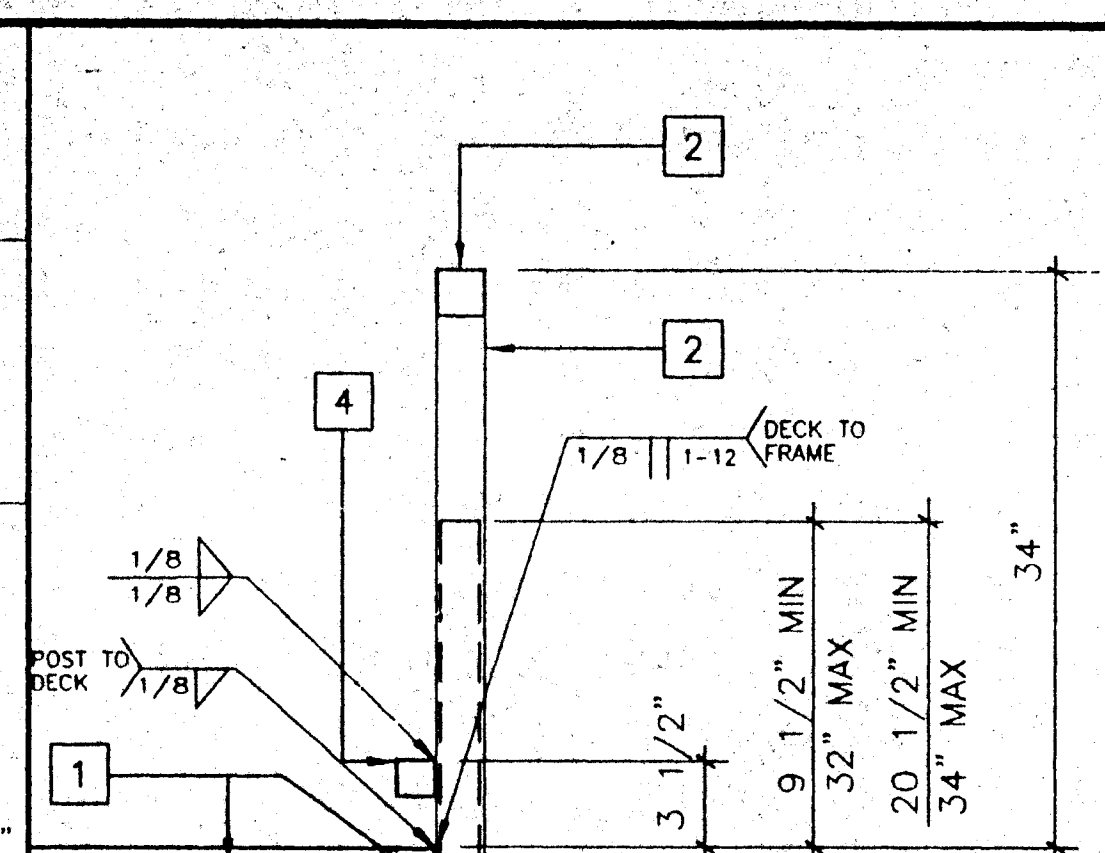
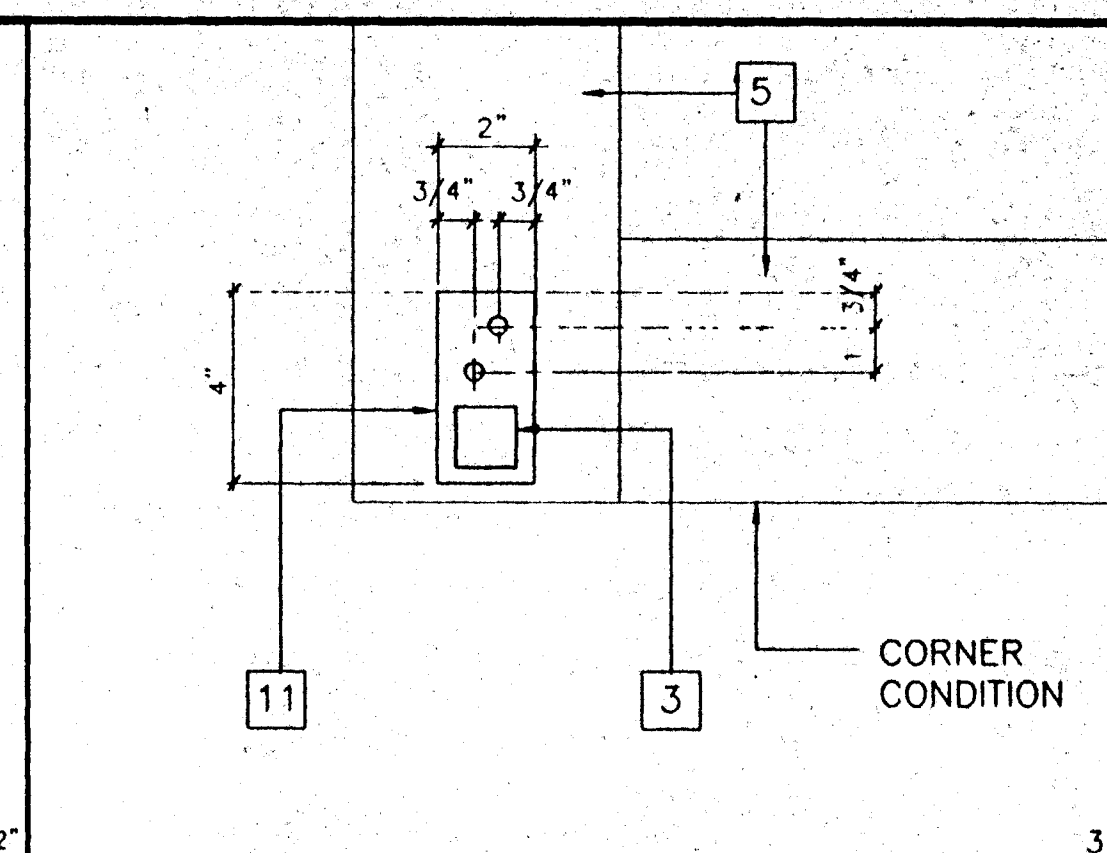
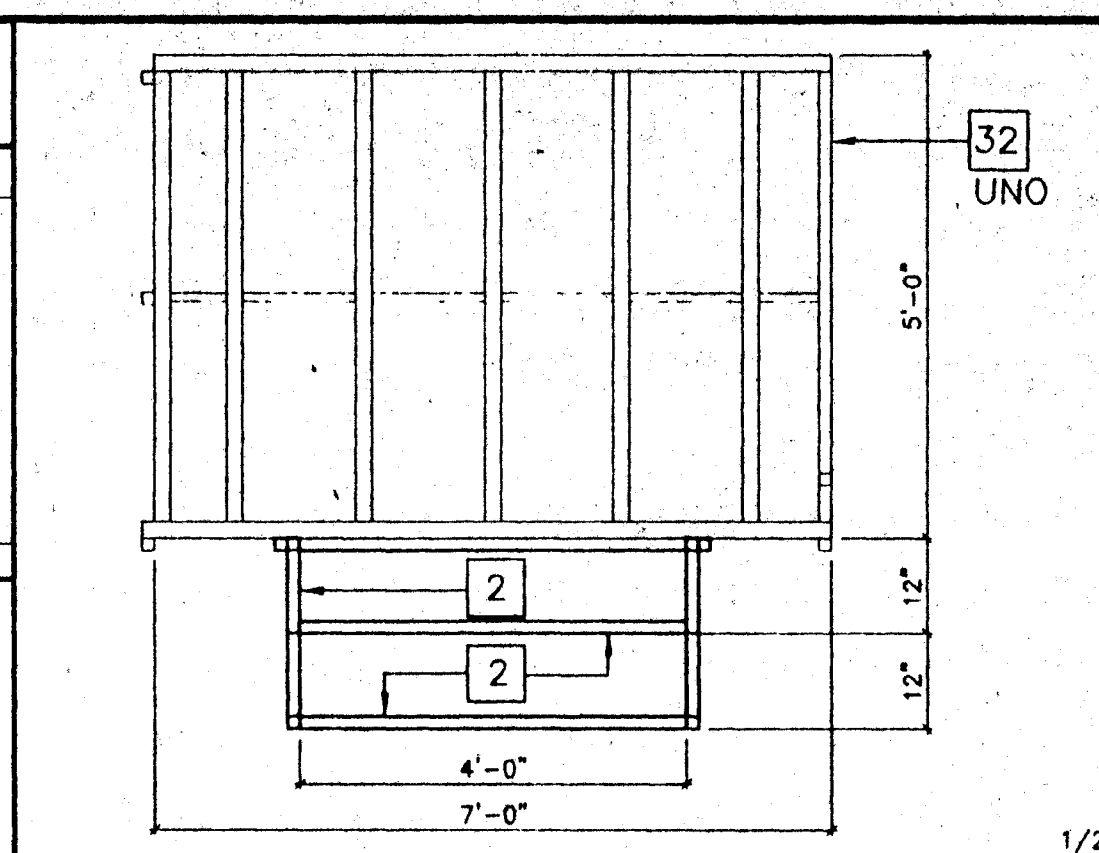
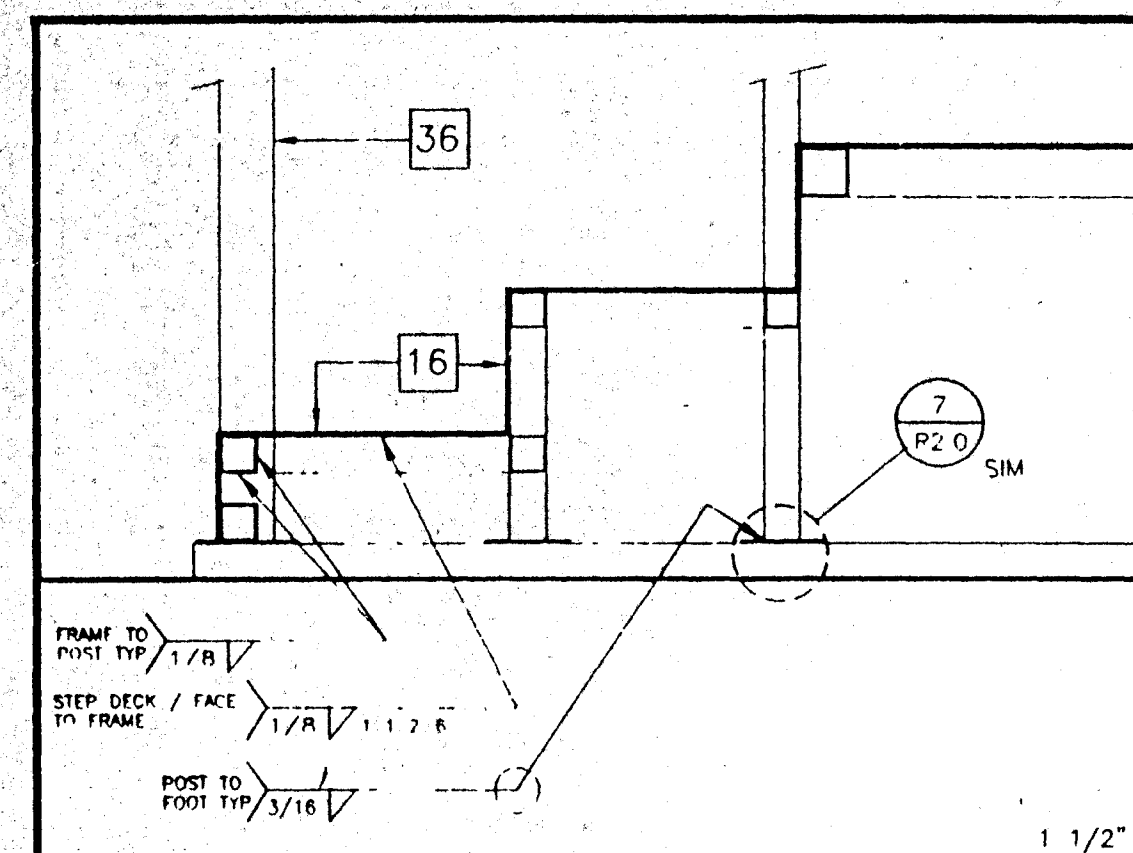
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drawn by: FVH  
date: 11/96  
checked by: [Signature]  
date: [Signature]  
Modtech project no: [Signature]  
MODTECH Index No: [Signature]

RAMP / LANDING

R1.0





- # KEY NOTES
- 1 TS 2" x 2" x 14ga
  - 2 TS 1 1/2" x 1 1/2" x 14ga (Fy = 39 KSI)
  - 3 TS 1 1/4" x 1 1/4" x 14ga (Fy = 39 KSI)
  - 4 TS 1" x 1" x 16ga WHEELCHAIR GUIDE
  - 5 2 x 6 PT SILL PLATE
  - 6 2 x 2 NAILER W/16d • 12" OC
  - 7 2 x RW HEADER BY DISTRICT.
  - 8 6" x 10ga CONTINUOUS PLATE W // #14 x 2" TEK SCREWS  
• 9" OC INTO WOOD OR FOUNDATION BLOCKS OR #14  
x 2" TEK SCREWS INTO METAL • 9"OC
  - 11 2" x 4" x 12ga BASE PLATE W/2-1/4" x 1" LAGS
  - 12 6" x 10" x 12ga BASE PLATE • RAMP TOE
  - 14 LOWER LANDING BY DISTRICT
  - 15 SKIRTING: PLYWOOD TO MATCH BUILDING SIDING. BLOCK  
ALL EDGES. ATTACH W/8d • 6" OC EDGES AND 12" OC  
FIELD. ATT EDGE CONNECTION TO T.S. USE #14 x 2" TEK  
SCREWS • 6" OC
  - 16 12ga METAL DECK: NON-SLIP SURFACE. DESIGN COEFFICIENT  
OF FRICTION GREATER THAN 6% MAINTAINABLE FOR 1 YR
  - 18 EXISTING BUILDING
  - 19 CAULKING
  - 20 26 ga FLASHING
  - 23 3/8" dia x 2" LONG MB W/NUT & WASHERS
  - 26 PAVE BY DISTRICT
  - 27 RAMP BY MODTECH
  - 28 FLUSH TRANSITION
  - 29 3" MINIMUM BUILDING SERERATION
  - 30 PROVIDE DIVERSION FOR WATER FROM DOWNSPOUT FOR  
THIS CONDITION BY DISTRICT
  - 32 FOR LANDING DETAILS, AND RAMP ATTACHEMENT  
SEE 12/R1.0
  - 33 FASTEN POSTS W/ 3/8" • THRU BOLT TYPICAL
  - 34 2" WARNING STRIPES MAX 1" FROM EVERY STAIR  
NOSING USE CONTRASTING COLOR
  - 36 TS 2 1/2" x 1 1/2" x 8ga ASTM A500 GRADE A

RAMP TRANSITION

BY  
DISTRICT

1/2"


19

REVISIONS

1		
2		
3		
4		
5		


Electrical

Eng

SECTION @ INT. FRAME		1/2"
Engineer's Seal	Mechanical Engineer's Seal	Structural Engineer's Seal
		
		P.L. 11-1 EXHIBIT 16-704

SKIRT @ SILL PLATE		3"	11
Architect's Seal	<div>IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES</div> <div>PC 275</div> <div>AC. <u>DR</u> FLS <u>SS</u> <u>ME</u></div> <div>DATE <u>JAN 21 1997</u></div>		

ADJUSTABLE LEG BASE PLATE 7



**MODTECH INC.**  
 2830 BARRETT AVENUE  
 PERRIS, CALIF 92572  
 PH (909) 943-4014  
 FAX (909) 940-0427

SECTION @ PLATE		1/2"	4
Job Number: PC 275		(C)	
2961			
RAMP / STAIR D			

<div data-bbox="2592 1764 2697 1786" data-label="Text"> <p>MODTECH, INC 1997</p> </div>	<div data-bbox="2697 1764 2803 1786" data-label="Text"> <p>drawn by FMH date 11/96 checked by date Modtech project no</p> </div>	<div data-bbox="2803 1764 2856 1786" data-label="Text"> <p>Project no 275</p> </div>
<div data-bbox="2592 1786 2697 1808" data-label="Text"> <p>DETAILS</p> </div>	<div data-bbox="2697 1786 2856 1808" data-label="Text"> <p>MODTECH Index No R2.0</p> </div>	

1. **THE STATE OF TEXAS, County of \_\_\_\_\_, do hereby certify that \_\_\_\_\_ is the true and correct owner of the above described property, and that the same is subject to the lien of a mortgage in favor of \_\_\_\_\_, as shown by the records of the County Clerk of this County.**