

July 9, 2021

## NOTICE TO ALL BIDDERS

Re: **NURSING BUILDING MODERNIZATION – BUILDING 2100**

RFP No 20-21-20

Addendum # 01

### RFI Questions and Response

1. **Question:** For bonding purposes only, what is the engineer's estimate?  
**Response:** \$2,000,000.00
2. **Question:** Plans and project manual calls for an “Alternate No. 1: Provide manufacturer accessory for power distribution to accommodate electrical devices”; but there is no space for that item on bid proposal sheet (00 41 00).  
**Response:** See attached Attachment A – Alternate Bid Items Proposal
3. **Question:** On Sheet G03.001, is there any work needed on this page? or is just historical information. Please clarify.  
**Response:** Sheet G03.001 is Life Safety Plan. Exit signs and signage as indicated on plan will need to be provided
4. **Question:** On Sheet A09.100, fastener spacing for drywall and sheathing is listed at 2” in the field? Is that correct?  
**Response:** Fastener spacing at field is 12” OC not 2”, see revised sheet A9.000 attached
5. **Question:** Is the tile make and/or color known for the bath tile patches if needed?  
**Response:** Existing tile specification at restrooms is unknown. GC to provide product sample of proposed replacement for review and approval prior to installation
6. **Question:** Please provide as-built drawings for all area where renovation work is to be performed.
  - **Response:** See attached original building architectural and structural as-built plans
7. **Question:** Was a hazardous Materials Survey completed for Building 2100? If so, please provide.  
**Response:** Not available yet
8. **Question:** Will stored materials be removed by owner?  
**Response:** Yes, the district will remove all FF&E and materials from the building.
9. **Question:** Please confirm that this project is not subject to PLA/PSA  
**Response:** No, this project is not subject to PLA/PSA.

10. **Question:** Numbering for rooms does not match existing conditions. Are rooms to be renumbered per floor plan?  
**Response:** No, existing room numbers to remain. Numbering on plans was for graphical purposes only
11. **Question:** Is shelving above countertops in room 2105 to be removed and reinstalled to accommodate wall covering removal, wall prep and paint?  
**Response:** No
12. **Question:** Are parking permits required for employee vehicles for duration of project?  
**Response:** Not at this time, but may be required once school is back in session in August.
13. **Question:** Are the 8 point to zoom cameras (EQ-3) Owner or Contractor Furnished/ Owner or Contractor Installed?  
**Response:** Owner furnished and owner installed
14. **Question:** Is existing millwork not shown on A02-201 to be demolished?  
**Response:** No
15. **Question:** Does IVC have a preferred vendor for Fire Alarm services?  
**Response:** The district currently uses the Symplex system for FA service. Johnson Controls is the proprietary provider.
16. See attached updated fire alarm drawings. The scope of fire alarm design includes a new fire alarm terminal cabinet and a new battery power supply located in the nursing building to feed new detector and notification devices. The new fire alarm terminal cabinet is going to be connected to the existing fire alarm control panel in electrical room 2167.

Attachments:

- Attachment A – Alternate Bid Items Proposal
- Sheet A09.000
- Fire Alarm plans: FA00.001, FA01.001, FA01.002, FA02.001, FA02.901
- Original building architectural and structural as-built plans

END OF ADDENDUM # 01

**ATTACHMENT A  
ALTERNATE BID ITEMS PROPOSAL**

Project: **NURSING BUILDING MODERNIZATION – BUILDING 2100**

Bidder Name: \_\_\_\_\_

Bidders must provide a proposal price for each Alternate Bid Item set forth herein; failure to do so will result in rejection of the Bid Proposal for non-responsiveness. The amount proposed for each Alternate Bid Item by the above-identified Bidder is set forth hereinbelow:

- 1. Alternate Bid Item. Section 01 23 00 Fixed Auditorium Seating; Provide manufacturer optional accessory for power distribution to position directly below the seat height and between two seats to accommodate the requirements of electrical devices. All wire are concealed and enclosed in wireway rated per electrical code and UL listing which supporting brackets. The alternate includes all parts, materials and labor to install power option. As part of the alternate provide trenching for electrical infrastructure and concrete backfill to reach center seats, conduit, wire and J-box for seats along wall, new electrical panel in Auditorium and connection back to main electrical and noted in the electrical drawings. Provide re-circuiting of existing devices as indicated on the electrical drawings. See Architectural Sheet A02.501 for power locations and electrical sheets for detailed information on requirements. .

- Add to Base Bid Proposal Amount
- Deduct From Base Bid Proposal Amount

**(Check appropriate box indicating additive or deductive cost; failure to do so will result in rejection of Bid Proposal for non-responsiveness)**

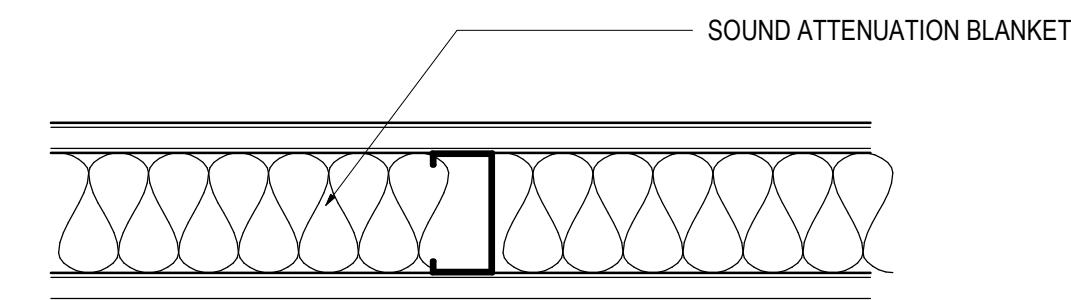
\_\_\_\_\_ Dollars (\$) \_\_\_\_\_  
(in words; printed or typed)

Dated \_\_\_\_\_

By: \_\_\_\_\_  
(Signature of Bidder's Authorized Officer or Representative)

\_\_\_\_\_  
(Typed or Printed Name)

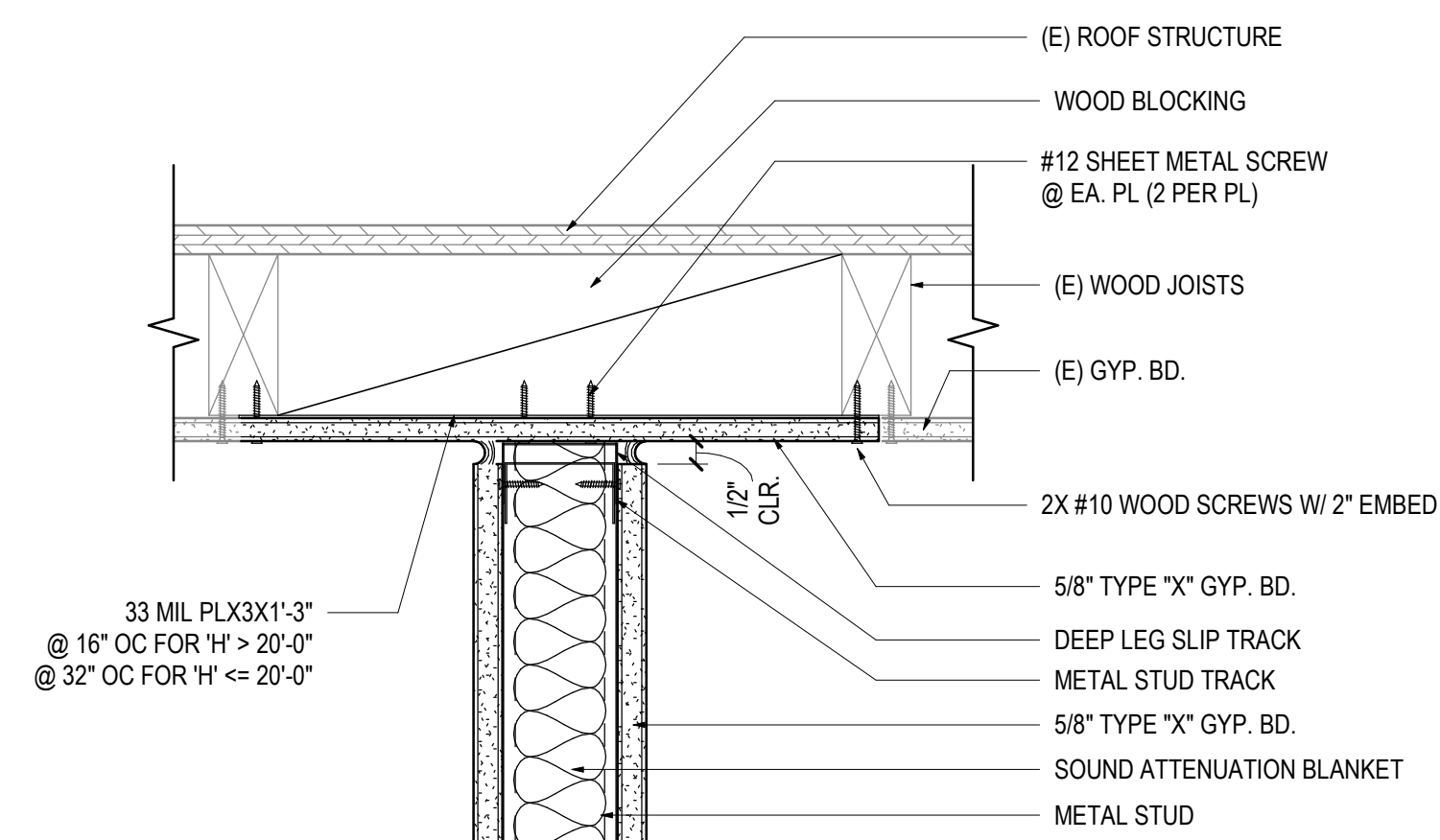
Title: \_\_\_\_\_



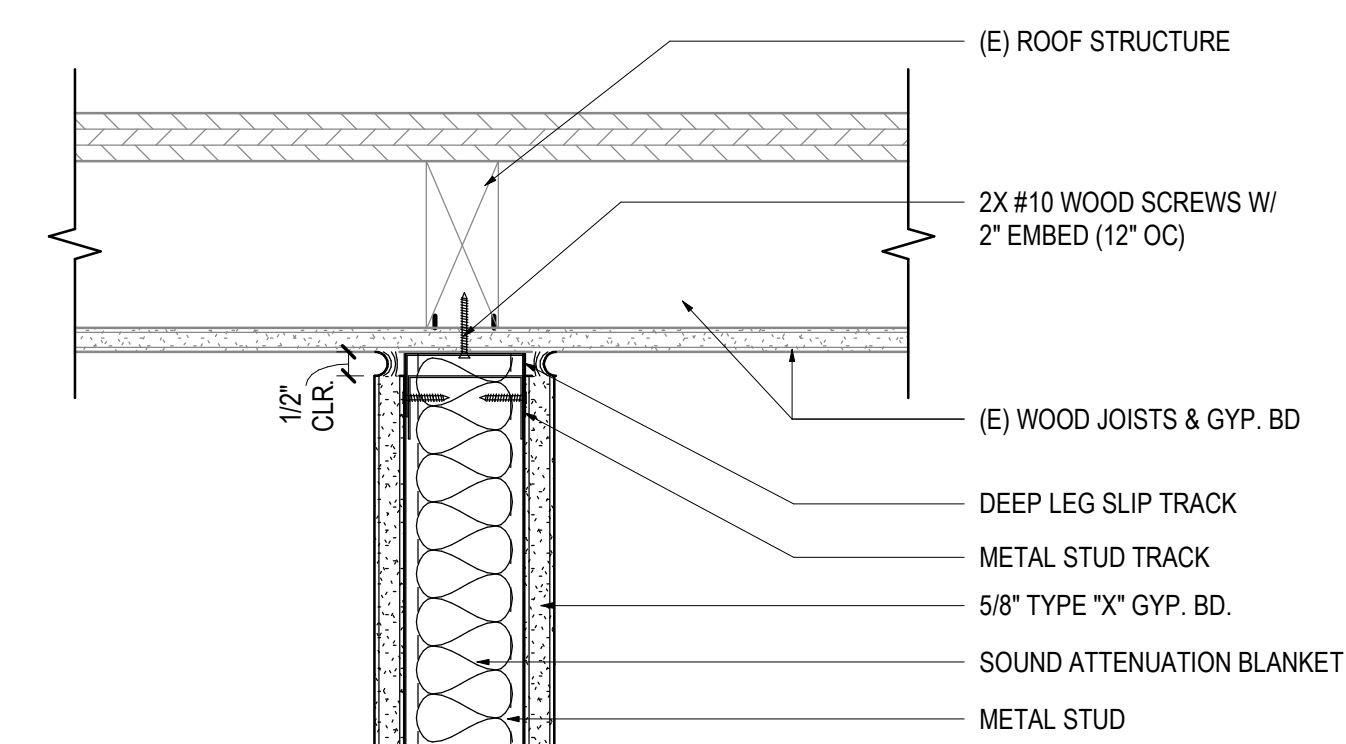
TYPE MARK	TYPE DESCRIPTION	TYPE COMMENTS	FRAMING		DETAILS		ATTEN THK	FIRE RTG	TESTED ASSEMBLY	
			GA	DEPTH	TOP	BOT				
AGA	6" metal stud partition w/1 layer 5/8" gyp. ea. side	SLAB TO SLAB	20	6"	02/A09	100	03/A09	100	6"	
AGC	6" metal stud partition w/1 layer 5/8" gyp. ea. side	DOOR INFILL	20	6"	N/A	03/A09	100	6"		

### 01 A SERIES PARTITION TYPES

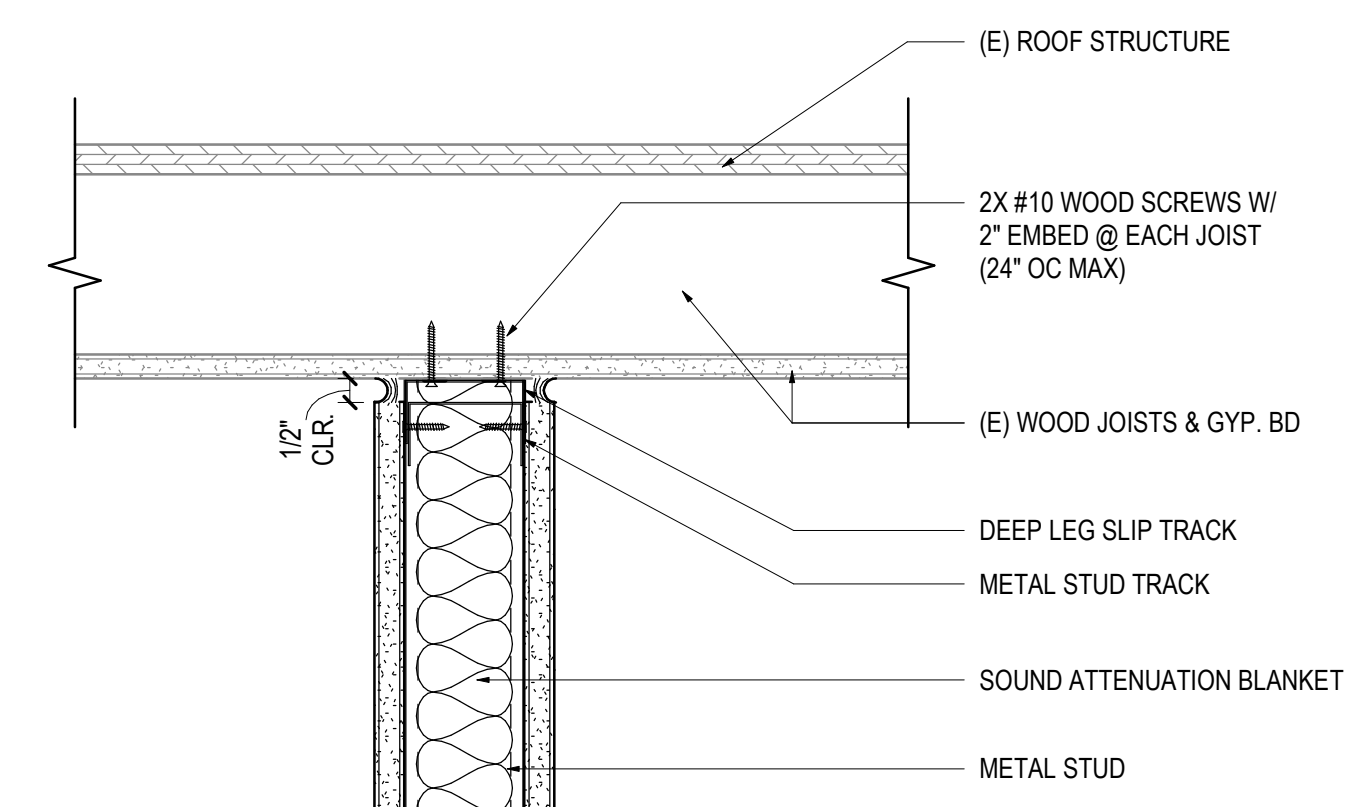
SCALE: 3" = 1'-0"



FULL HEIGHT - PARALLEL BETWEEN JOISTS



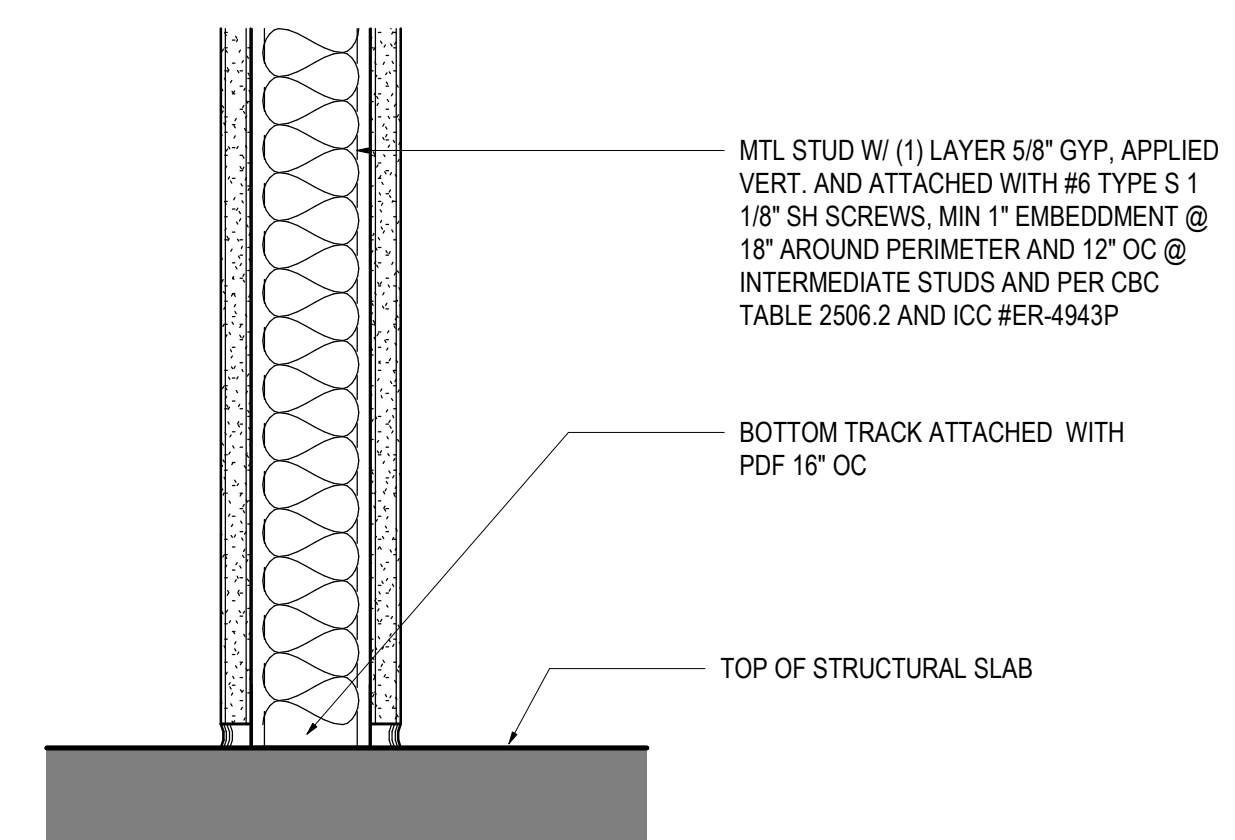
FULL HEIGHT - PARALLEL @ JOISTS



FULL HEIGHT - PERPENDICULAR TO JOISTS

### 02 A-T01 TOP OF PARTITION @ WOOD ROOF

SCALE: 3" = 1'-0"



### 03 A-B01

SCALE: 3" = 1'-0"

### SHEET NOTES

### SHEET LEGEND

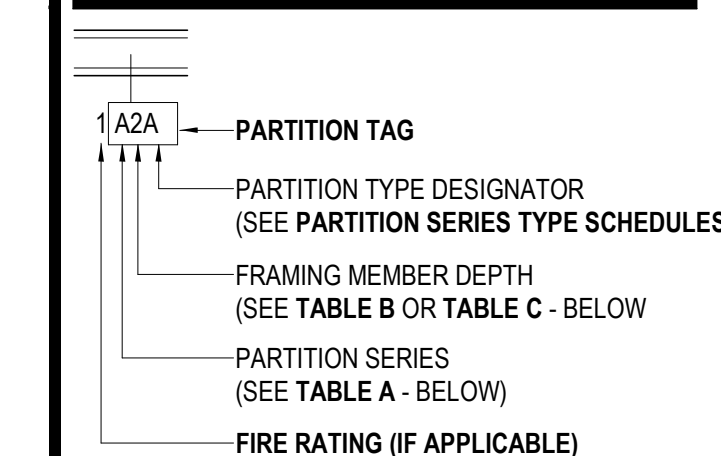


TABLE A - PARTITION SERIES CONSTRUCTION ASSEMBLY

SERIES	SHEATHING	FRAMING MEMBERS	SHEATHING
A	1-LAYER	METAL C-STUD	1-LAYER
B	2-LAYERS	METAL C-STUD	2-LAYERS
C	1-LAYER	METAL C-STUD	2-LAYERS
D	1-LAYER	METAL C-STUD	NONE
E	2-LAYERS	METAL C-STUD	NONE
F	1-LAYER	MTL HAT CHANNEL	NONE
G	1-LAYER	NONE	NONE
H	1-LAYER	METAL C-H STUD	NONE
J	2-LAYERS	METAL C-H STUD	LINER PNL
K	1-LAYER	(2) METAL C-STUDS	1-LAYER
L	2-LAYERS	(2) METAL C-STUDS	2-LAYERS
M	NONE	CMU	NONE
N-U	RESERVED FOR FUTURE EXPANSION		
V-Z	CUSTOM	N/A	N/A

TABLE B - FRAMING DEPTH SCHEDULE

TAG NUMBER DESIGNATION	MTL STUD DEPTH	MTL C-H STUD DEPTH	WOOD STUD DEPTH
-	NO FRAMING		
0	7/8" FLURRING CHANNEL	N/A	
1	1 5/8"	N/A	
2	2 1/2"	2 1/2"	N/A
3	3 5/8"	N/A	N/A
4	4"	4"	4 1/2"
6	6"	6"	5 1/2"
8	8"	N/A	7 1/4"
10	10"	N/A	9 1/4"

TABLE C - MASONRY WIDTH SCHEDULE

TAG NUMBER DESIGNATION	CMU WIDTH
4	3 5/8"
6	5 5/8"
8	7 5/8"
10	9 5/8"
12	11 5/8"

STEEL SHEET THICKNESS FOR STUDS AND RUNNERS

GAGE*	MIN. STEEL	BASE METAL THICKNESS (UNCOATED)
	INCH	MILS
12	0.1017	97
14	0.0713	68
16	0.0566	54
18	0.0451	43
20	0.0312	30
22	0.0270	27
25	0.0179	18

\*GAGE 16, 18 USED FOR STRUCTURAL FRAMING; 20, 22, AND 25 USED FOR NON-STRUCTURAL FRAMING  
 \*USE OF DIMPLED STEEL STUDS ACCEPTABLE PROVIDED CONTRACTOR SUPPLIES DOCUMENTATION PROVING THE EQUIVALENT MINIMUM BASE METAL THICKNESS IS ACHIEVED

- QN-01. PARTITION TYPES ARE NOT SEQUENTIAL.
- QN-02. ALL PARTITION SHEATHING TO BE 5/8" TYPE "X" GYPSUM BOARD UNLESS OTHERWISE NOTED.
- QN-03. ALL PARTITIONS SHALL BE COORDINATED WITH SCHEDULED FINISHES FOR PARTITION LAYOUT AND REQUIRED CLEARANCES.
- QN-04. FOR INTERIOR FRAMING LIMITING HEIGHTS REFER TO SSMA TABLES FOR INTERIOR NON-STRUCTURAL NON-COMPOSITE PARTITIONS
- QN-05. CONTRACTOR TO RE-CONFIRM STUD SIZING AND SUBMIT SELECTION CRITERIA FOR REVIEW INCLUDING DELINEATION OF SLAB TO UNDERSIDE OF SLAB INFORMATION

CONDITION	ICC REFERENCE
METAL STUD	ESR-3064P, CCRR-0224
METAL SLIP TRACK	ESR-2012
S.M. SCREWS	ESR-1271
P.A. FASTENER	ESR-1752, ESR-2289

FASTENER SPACING FOR DRYWALL AND SHEATHING  
 8" O.C. AT PANEL EDGES  
 12" O.C. AT PANEL FIELD  
 TYPE 'S' SCREWS

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Gensler

225 Broadway  
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 San Diego, CA 92101  
 United States

Tel 619.557.2500  
 Fax 619.557.2520

Date	Description	AK   SS
02.05.2021	SCHEMATIC DESIGN	AK   SS
03.05.2021	DESIGN DEVELOPMENT	AK   SS
04.15.2021	DSA SUBMITTAL	AK   WK   SS
05.25.2021	DSA BACKCHECK	AK   SS
07.09.2021	ADDENDUM A	AK   SS

Seal/Signature

Project Name  
 IVC - SCHOOL OF NURSING

Project Number  
 055.7853.000

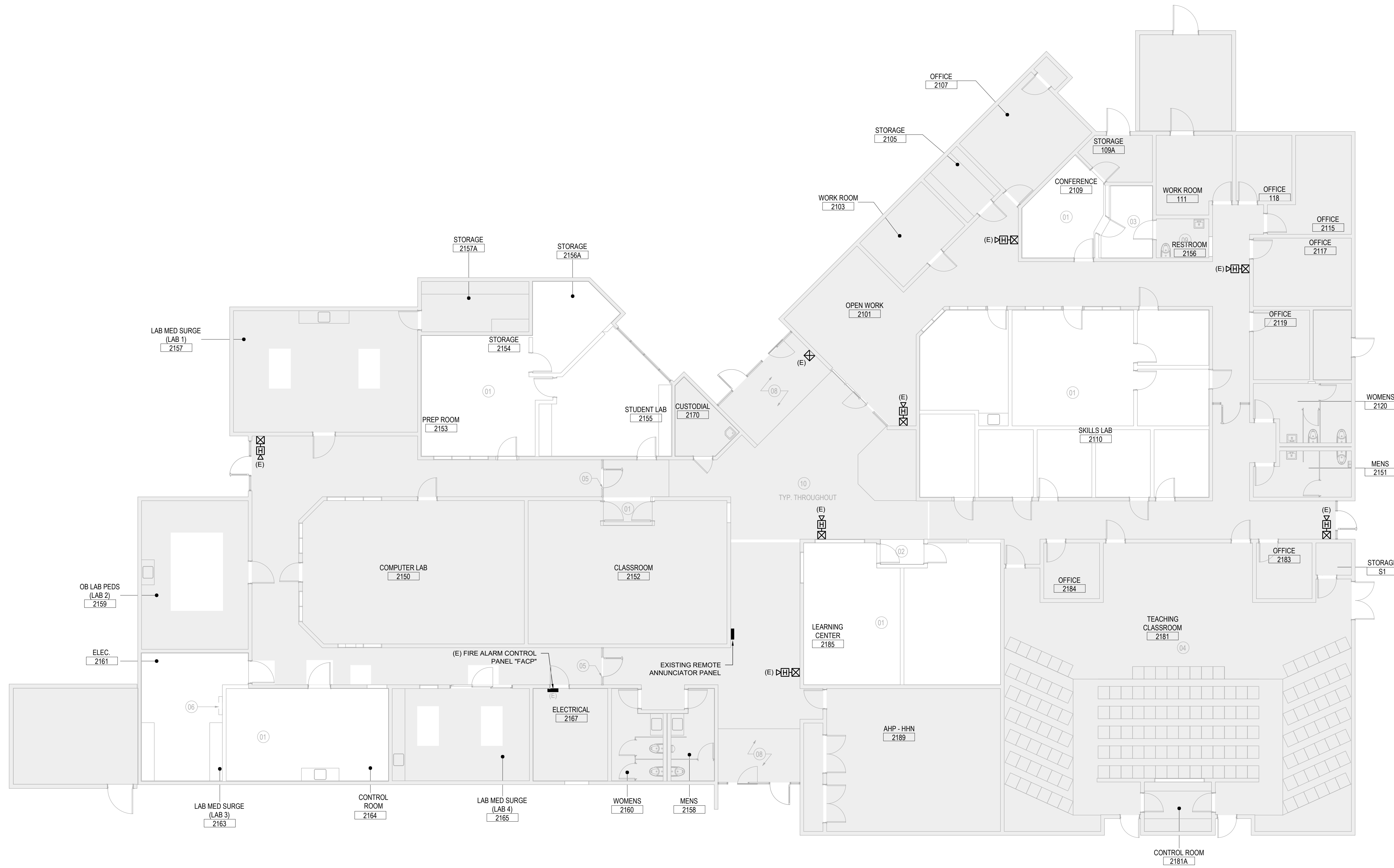
Description  
 LEVEL 01  
 PARTITION TYPES & DETAILS

Scale  
 3" = 1'-0"

A09.100



S:\PROJECTS\2020\SS - SHARE\2000\06.01 ICCD - NURSING BUILDING MODERNIZATION\04.04 ELEC\2000\06.01 ICCD - FA - EXISTING FIRE ALARM PLAN.DWG, 7/8/2021 10:14 AM



**GENERAL NOTES**

1. THE EXISTING FIRE ALARM SYSTEM IS SUPPORTED BY A FULLY ADDRESSABLE SIMPLEX 4100 ES CONTROL PANEL. THE NEW DEVICES SHOWN, INCLUDING WIRING, SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM. THE QUANTITY, MODEL NUMBERS, WIRING & SPACING OF NEW DEVICES SHALL BE REVIEWED WITH THE SIMPLEX REPRESENTATIVE PRIOR TO BID AND INSTALLATION.

**KEY NOTES**

1. CONNECT TO NEAREST FIRE ALARM DEVICE.
2. FIRE SMOKE DAMPER TO BE CONNECTED TO EXISTING FIRE ALARM CONTROL PANEL.

**WIRING LEGEND**

— FA — FIRE ALARM 3/4" C, #18 G.A. TWISTED PAIR.  
PAINT CONDUIT "RED"

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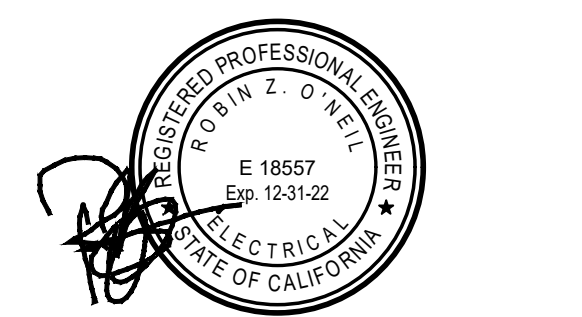
225 Broadway Suite 100 San Diego, CA 92101 United States  
Tel: 619.557.2500 Fax: 619.557.2520



9636 TIERRA GRANDE, SUITE 200 SAN DIEGO, CA 92126  
TEL: 619-765-6784 FAX: 658-812-2001 202005.00

Date	Description	AK   SS
03.05.2021	DESIGN DEVELOPMENT	AK   SS
04.15.2021	DSA SUBMITTAL	AK   VK   SS
05.25.2021	DSA BACKCHECK	AK
07.09.2021	ADDENDUM A	

Seal/Signature



Project Name  
IVC - SCHOOL OF NURSING

Project Number  
055.7853.000

Description  
EXISTING FIRE ALARM PLAN

Scale  
As indicated

**FA01.001**

GENERAL NOTES

1. THE EXISTING FIRE ALARM SYSTEM IS SUPPORTED BY A FULLY ADDRESSABLE SIMPLEX 4100 ES CONTROL PANEL. THE NEW DEVICES SHOWN, INCLUDING WIRING, SHALL BE COMPATIBLE WITH THE EXISTING SYSTEM. THE QUANTITY, MODEL NUMBERS, WIRING & SPACING OF NEW DEVICES SHALL BE REVIEWED WITH THE SIMPLEX REPRESENTATIVE PRIOR TO BID AND INSTALLATION.

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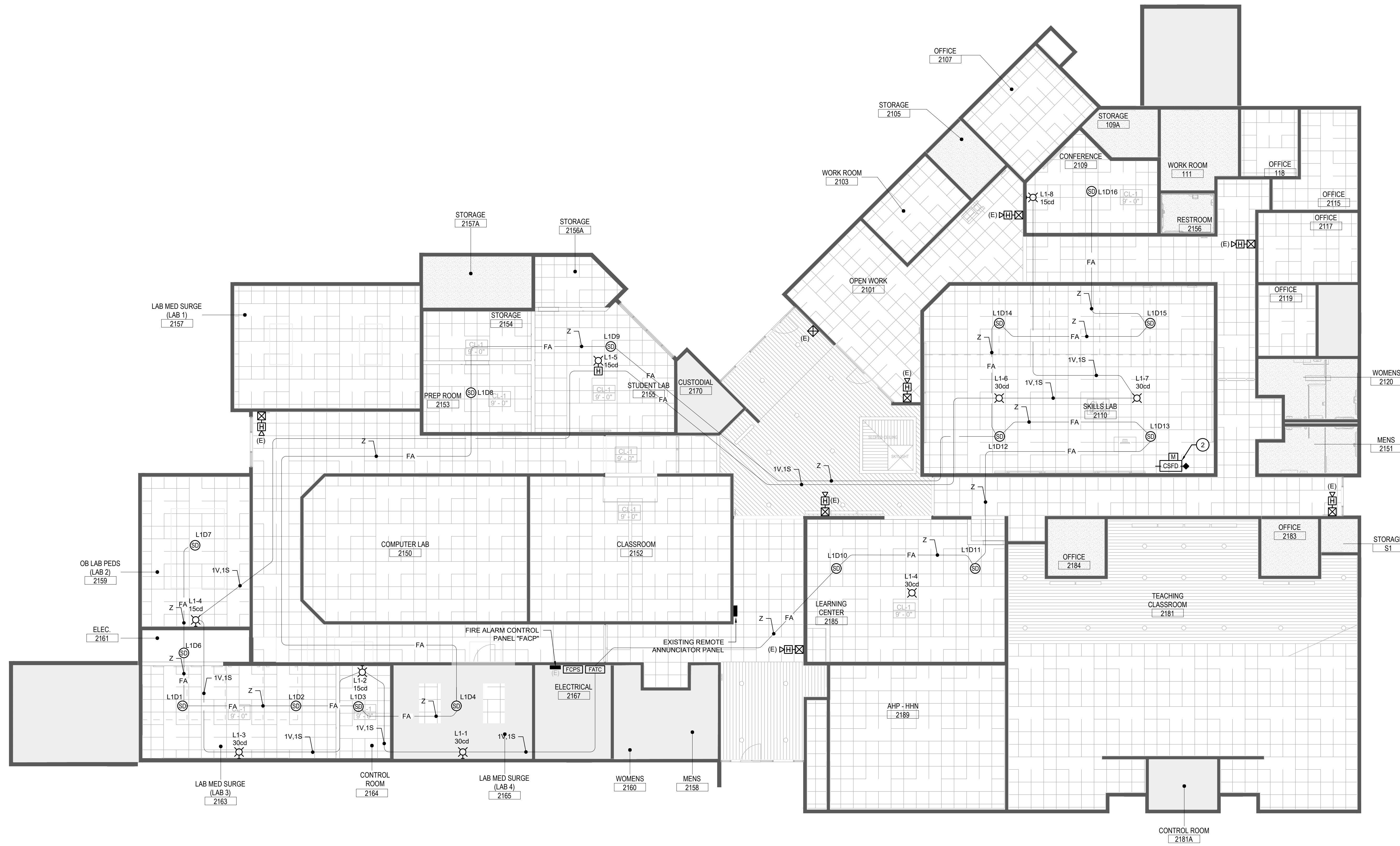
225 Broadway Tel: 619.557.2500  
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United States



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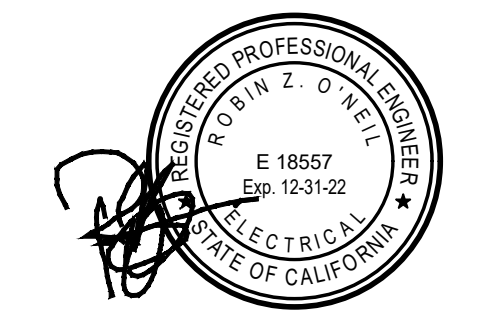
KEY NOTES

- 1 xxxx
- 2 xxxx



Date	Description	AK   SS
03.05.2021	DESIGN DEVELOPMENT	AK   SS
04.15.2021	DSA SUBMITTAL	AK   VK   SS
05.25.2021	DSA BACKCHECK	AK
07.09.2021	ADDENDUM A	

Seal/Signature



Project Name  
IVC - SCHOOL OF NURSING

Project Number  
055.7853.000

Description  
REMODEL FIRE ALARM PLAN

Scale  
As indicated

**FA01.002**







UL, UL/C, CSFM Listed, FM Approved\*

### TrueAlarm Analog Sensing

TrueAlarm Analog Sensors – Photoelectric and Heat; Standard Bases and Accessories

#### Features

**TrueAlarm analog sensing provides:**

- Digital transmission of analog sensor values via IONet or MAPNET 3 two-wire communications

**For use with the following Simplex products:**

- 4007ES, 4010, 4010ES, 4100ES, and 4100U Series control panels and 4008 Series control panels with reduced feature set (refer to data sheet **S4008-0001** for details)
- 4002, 4100, and 4120 Series control panels, Universal Transponders, and 2120 TrueAlarm CDS, equipped for MAPNET II operation

#### Fire alarm control panel provides:

- Peak value logging allowing accurate analysis of each sensor for individual sensitivity selection
- Sensitivity monitoring satisfying NFPA 72 sensitivity testing requirements; automatic individual sensor calibration check verifies sensor integrity
- Automatic environmental compensation, multi-stage alarm operation, and display of sensitivity directly in percent per foot
- Ability to display and print detailed sensor information in plain English language

#### Photoelectric smoke sensors provide:

- Sensitivity levels from 0.2% to 3.1%. See TrueAlarm Sensors for more information.

#### Heat sensors provide:

- Three field temperature sensing thresholds: 135° F, 155° F and 190° F
- Rate-of-rise temperature sensing
- Utility temperature sensing
- Listed to UL 521 and UL-C-5530

#### General Features:

- Operation is for ceiling or wall mounting
- Listed to UL 268 and UL-C529
- NEMA 1 rated. See TrueAlarm Analog Sensing Product Selection Chart for more information.
- Louvered smoke sensor design enhances smoke capture by directing flow to chamber; entrance areas are minimally visible when ceiling mounted
- Designed for EMI compatibility
- Magnetic test feature is provided
- Different bases are available to support a supervised or unsupervised output relay, and/or a remote LED alarm indicator

#### Additional base reference:

- For isolator bases, refer to data sheet S4098-0025
- For sounder bases, refer to data sheet S4098-0028
- For photo/heat sensors, refer to data sheet S4098-0024 (single address) and S4098-0033 (dual address)

#### Description

Digital communication of analog sensing provides an analog measurement digitally communicated to the host control panel using Simplex addressable communications. At the control panel, the data is analyzed and an average value is determined and stored. An alarm or other abnormal

condition is determined by comparing the sensor's present value against its average value and time.

#### Intelligent Data Evaluation

Monitoring each sensor's average value provides a continuously shifting reference point. This software filtering process compensates for environmental factors (dust, dirt, etc.) and component aging, providing an accurate reference for evaluating new activity. With this filtering, there is a significant reduction in the probability of false or nuisance alarms caused by shifts in sensitivity, either up or down.

#### Control Panel Selection

Peak activity per sensor is stored to assist in evaluating specific locations. The alarm set point for each TrueAlarm sensor is determined at the host control panel, selectable as more or less sensitive as the individual application requires.



Figure 1: 4098-0714 TrueAlarm Photoelectric Sensor Mounted in Base

#### Timed/Multi-Stage Selection

Sensor alarm set points can be programmed for timed automatic sensitivity selection (such as more sensitive at night, less sensitive during day). Control panel programming can also provide multi-stage operation per sensor.

#### Sensor Alarm and Trouble LED Indication

Each sensor base's LED pulses to indicate communications with the panel. If the control panel determines a sensor is in alarm, or is dirty or has some other type of trouble, the details are announced at the control panel and that sensor base's LED will be turned on steadily. During a system alarm, the control panel will control the LEDs such that an LED indicating a trouble will return to pulsing to help identify the alarmed sensors.

#### TrueAlarm Sensor Bases and Accessories

##### Sensor Base Features

- Base mounted address selection:
- Address remains with its programmed location
- Accessible from front (DIP switch under sensor)

##### General features:

- Automatic identification provides default sensitivity when substituting sensor types
- Integral red LED for power-on (pulsing), or alarm or trouble (steady on)
- Locking anti-ramp design mounts on standard outlet box
- Magnetically operated functional test

\* These products have been approved by the California State Fire Marshal (CSFM) pursuant to Section 13134.1 of the California Health and Safety Code. See CSFM Listings 7272-0008/2116, 7271-0009/2117, 7270-0009/2118, and 7800-0002/2117 for allowable values and/or conditions concerning material presented in this document. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Fire Protection Products.

S4098-0019 Rev. 25 8/2020



UL, UL/C Listed, FM Approved\*

### TrueAlert ES Addressable Notification Appliances

Audible/Visible Notification Appliances, Indoor Ceiling Mount Multi-Candela Horn/Strobe, Model Series 49AV

#### Description

**Ceiling Mount Addressable Visible (AV) Notification Appliances** are individually addressed audible/visible notification appliances that receive power, supervision, and control signals from a Simplex fire alarm control panel providing **IDNAC** Signaling Line Circuits (SLC), LED and Xenon tube strobes devices are interoperable on the same IDNAC channel. (See TrueAlert ES AV LEGACY Compatibility Reference.)

#### Features

- Individually addressed and controlled multi-candela TrueAlert ES AV (audible/visible) notification appliances provide:**
- Multi-candela sensor strobe with synchronized 1 Hz flash rate and with intensity **programmable from the control panel** or jumper selected as 15, 30, 75 or 110cd on the AV mode; or 110, 135 or 185 cd on the AVII mode
- Advanced addressable notification controlled by **IDNAC SLCs**
- IDNAC SLCs** provide **regulated 29 VDC** allowing horns to operate with lower current
- Wiring supervision to each appliance allowing "T-tapped" connections for Class B circuits to simplify wiring (Class A circuits require in/out wiring)
- Self-Test Mode** allows on-board sensors to detect the strobe and horn output and then report their status to the control panel
- TrueAlert Device Reports** at the control panel detailing appliance point ID, custom label, type, and candela setting (see sample in TrueAlert Device Reports Reference)
- Magnet Test diagnostics** to assist checkout and testing of appliances and wiring
- Electrical test point access** by removing the cover
- Compatibility with ADA requirements (refer to important installation information in Installation Reference)
- Compatibility with legacy TrueAlert addressable systems for upgrade and replacement (see TrueAlert ES AV LEGACY Compatibility Reference)
- Strobe operation is listed to UL Standard 1971 and UL Standard 5205; Horn operation is listed to UL Standard 464 and UL Standard 525

#### LED Indicator and Magnet Test feature:

- Appliance LED can be selected to display each polling cycle to indicate appliance supervision
- When the controller is in diagnostic mode, the Magnet Test pulses the LED to indicate appliance address and can be set to also briefly flash the strobe and sound the horn

#### Mechanical design features

- Rugged, high impact, flame retardant thermoplastic housing in red with white letters or white with red letters, with clear lens, available with FIRE, FEU, ALERT, FEU/FIRE, or bank lettering
- Separate covers are available to change application type onsite or for replacement
- You can use a back box to mount the appliance assembly to the wall
- Mount to a 4-inch (10.16 cm) square electrical box
- Covers can be easily removed without disturbing the connected housing and avoiding trouble conditions
- Input wiring terminals for 18 AWG to 12 AWG
- Optional red wire guards (see Product Selection)

#### Audible notification appliance (horn):

- Harmonically rich output sound for either coded or steady operation
- Horns sound as Temporal Code 3, March Time pattern, continuous, or Temporal Code-A, controlled separately from visible appliances on the same two-wire circuit
- Selectable March Time rates of 20, 60, or 120 beats per minute
- Output is "high" or "low" (<math>\pm 20\text{dB}</math> difference) selectable at the appliance or from the controller with RCT mode selected at the appliance



Figure 1: TrueAlert ES Addressable AV

#### Strobe Application Reference

Proper selection of visible notification is dependent on occupancy, location, local codes, and proper applications of the National Fire Alarm and Signaling Code (NFPA 72), ANSI A117.1, the appropriate model building code (SBCA, ICCB, or SBCC), and the application guidelines of the Americans with Disabilities Act (ADA).

#### TrueAlert ES Operation Advantage

**TrueAlert ES addressable appliances on IDNAC SLCs** provide separate visible and audible notification using a single two-wire circuit that also **confirms connection to the individual notification appliance's electronic circuit**. This operation increases circuit supervision integrity by providing supervision that extends beyond the appliance wiring connections.

#### Reduced current usage on IDNAC SLCs

With **IDNAC SLCs**, a constant 29 VDC source voltage is maintained, even during battery standby, allowing strobes to operate at higher voltage with lower current and ensuring a consistent current draw and voltage drop margin under both primary power and secondary battery standby. Efficiencies include wiring distances up to 2 to 3 times farther than with conventional notification, or support for more appliances per IDNAC SLC, or use of smaller gauge wiring, or combinations of these benefits, all providing installation and maintenance savings with high assurance that appliances that operate during normal system testing will operate during worst case alarm conditions.

#### Reducing installation and testing time

With separate controls on the same two-wire SLC, installation time and expense for both retrofits and new construction can be significantly reduced. When Class B wiring is used, wiring can be "T-tapped", allowing more savings in distance, wire, conduit (use and utilization), and overall installation efficiency. Use of Self-Test and Magnet Test features improve installation efficiency. TrueAlert Device reports conveniently identify information about each connected appliance.

\* Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co.

S49AVC-0001 Rev. 13 09/2019

## IMPERIAL VALLEY COLLEGE

SCHOOL OF NURSING  
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## Gensler

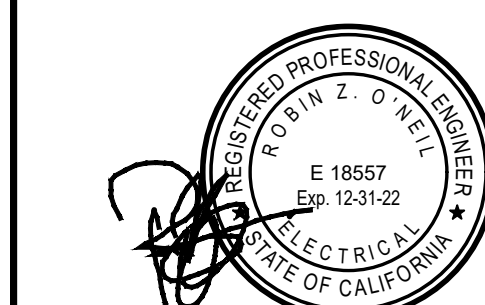
225 Broadway Suite 100 San Diego, CA 92101 United States  
Tel 619.557.2500 Fax 619.557.2500



9636 TIERRA GRANDE, SUITE 200 SAN DIEGO, CA, 92126  
TEL: 619-765-6784; FAX: 658-812-2001  
200005.00

Date	Description	AK   SS
03.05.2021	DESIGN DEVELOPMENT	AK   SS
04.15.2021	DSA SUBMITTAL	AK   VK   SS
05.25.2021	DSA BACKCHECK	AK
07.09.2021	ADDENDUM A	

Seal/Signature



Project Name

IVC - SCHOOL OF NURSING

Project Number

055.7853.000

Description

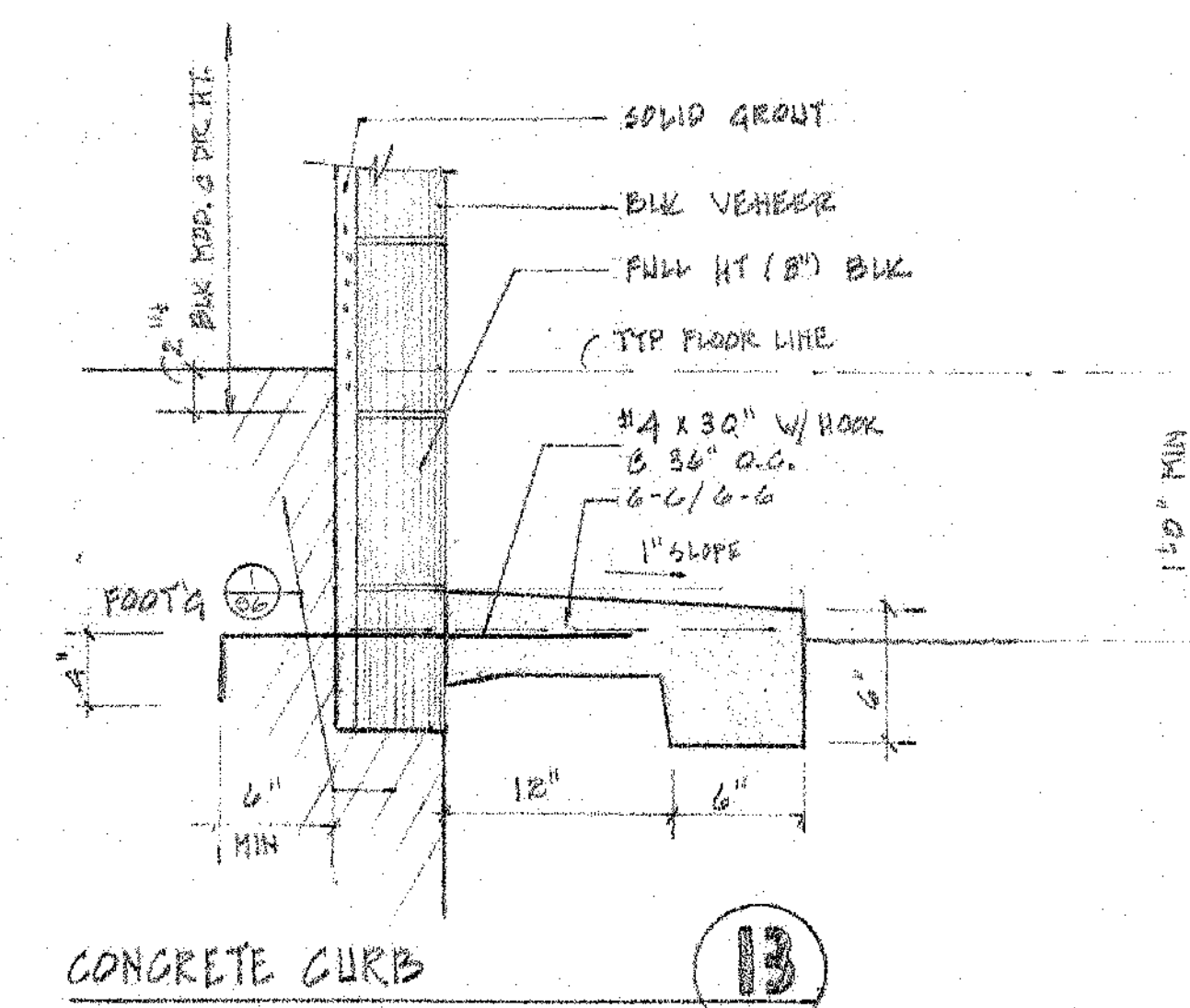
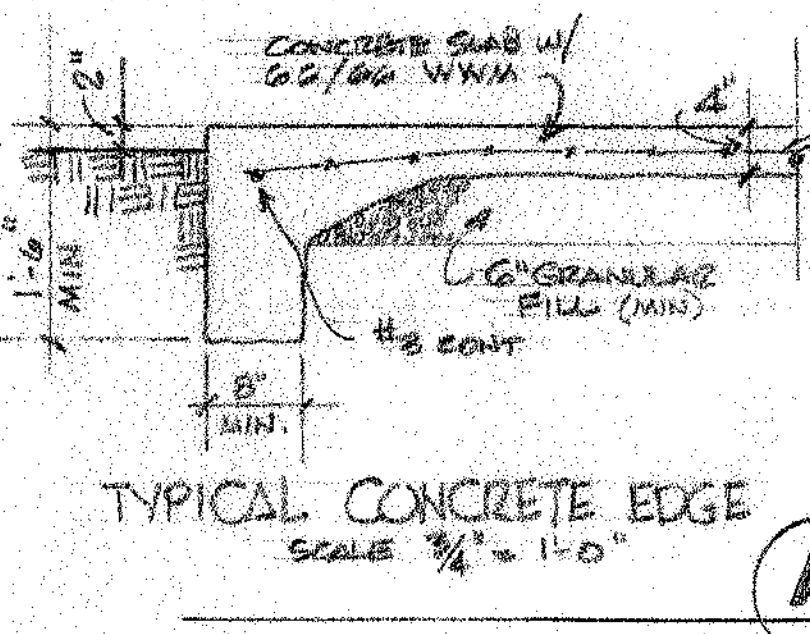
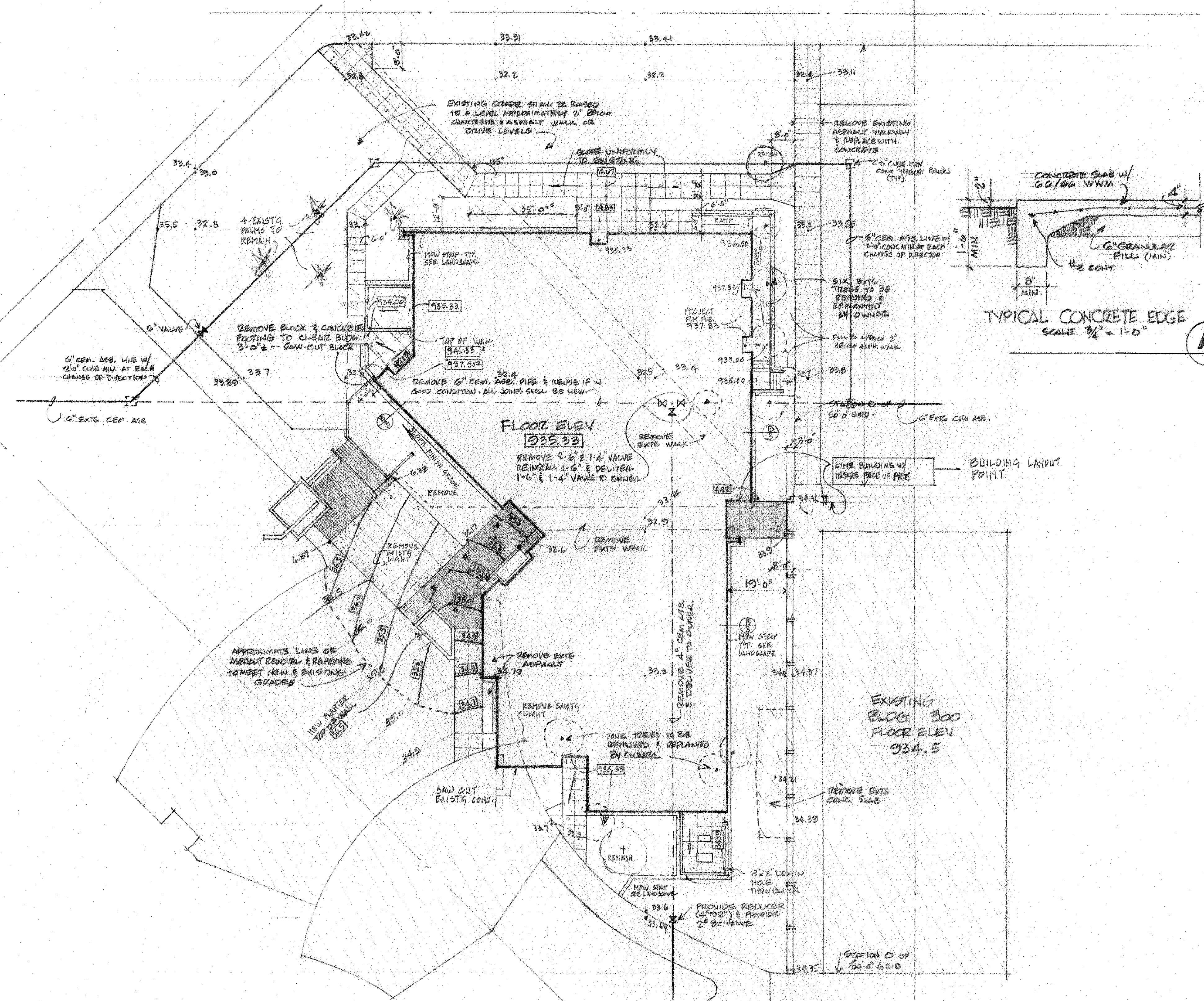
FIRE ALARM DETAILS

Scale

As indicated

# FA02.901





PLOT PLAN  
SCALE 1" = 20'-0"



SEAL OF THE STATE ARCHITECT  
 47276 JUN 26 1986  
 REGISTERED ARCHITECT  
 47276 JUN 26 1986

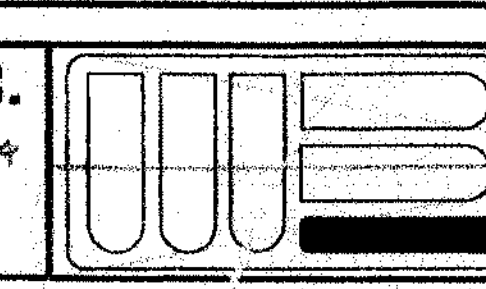
MARTIN & Associates  
 John A. Martin & Assoc.  
 Structural Engineers  
 1711 Newport Boulevard  
 Newport Beach, CA 92660  
 Phone: 714/875-0718

Frederick Brown Associates  
 Consulting Engineers  
 3438 17th Avenue, Newport Beach, CA 92660  
 (714) 861-6888

ORIGINAL DATE: SEPT. 14, 1974  
 REVISIONS:  
 DATE: JUNE 26, 1986  
 DRAWN:  
 JOB NO.: 1486

**IMPERIAL VALLEY COLLEGE**  
**NURSING EDUCATION CENTER**  
 IMPERIAL COMMUNITY COLLEGE DISTRICT  
 IMPERIAL, CALIFORNIA

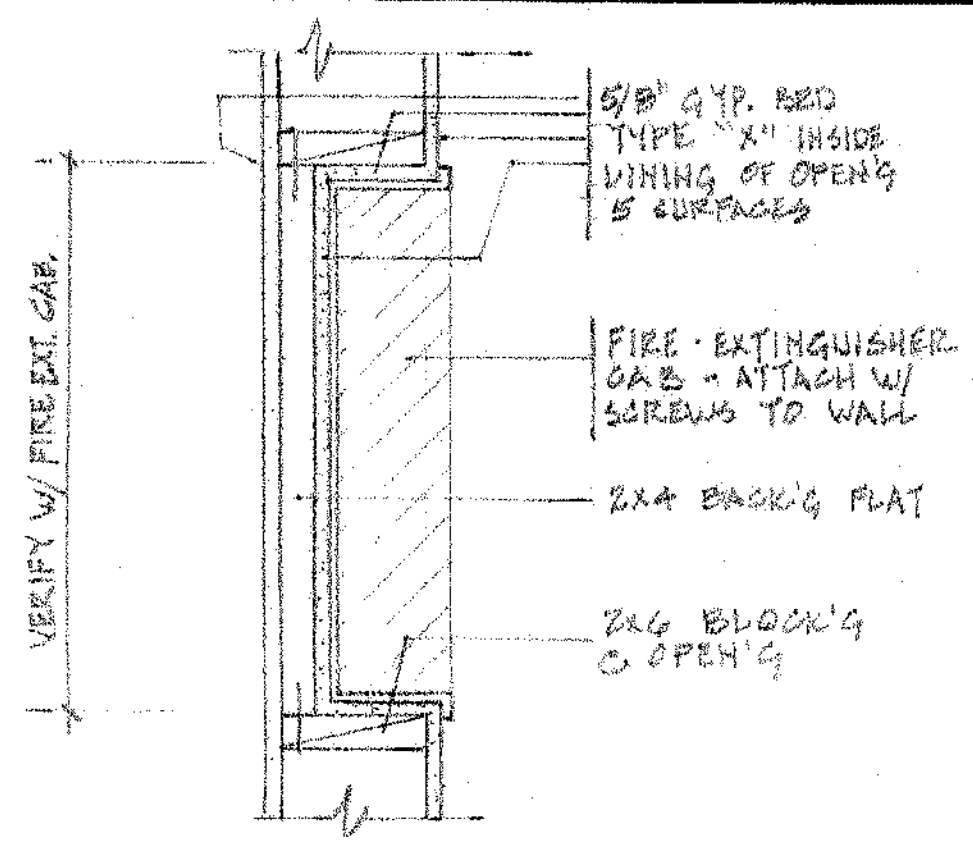
**Jimmie A. Sanders INC.**  
 Architect  
 A.I.A. 67644  
 P. O. Box 432, Brawley, CA 92227  
 344-2310



**William Skrook & Partners**  
 architects planners  
 2300 Newport Boulevard / 714 873-0900  
 Newport Beach, California 92660

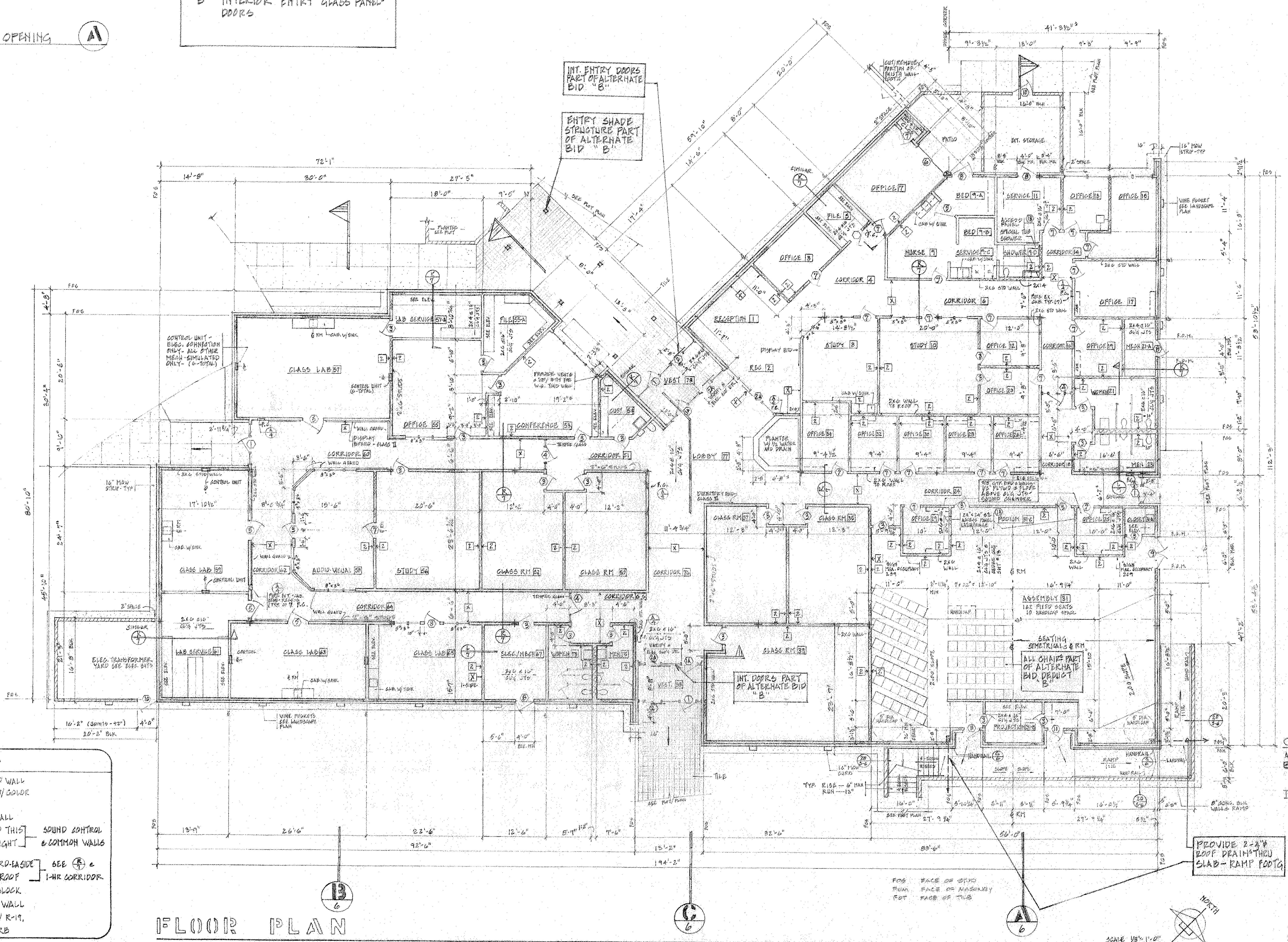
**PLOT PLAN**  
 (BUILDING AREA)

SHEET  
 OF 58 SHEETS  
 3



FIRE- EXTINGUISHER OPENING (A)

- ALTERNATE BID DEDUCTS**
- "A" ALL LANDSCAPE-IRRIGATION SYSTEMS - SHEET L-1 TO L-4
  - "B" ALL FIXED SEATING CHAIRS IN ASSEMBLY ROOM N° 21
  - "B" WOOD ENTRY SHADE STRUCTURE W/ FOOTINGS- STEEL COLUMNS
  - "B" INTERIOR ENTRY GLASS PANEL DOORS



- LEGEND FLOOR PLAN ONLY**
- TYPICAL 2x4, 2x6, 2x8 STUD WALL
  - 6"x6"x1/2" QUARRY TILE W/ GROUT
  - GROUT- RECESS SLAB
  - R-11 OR R-19 INSULATED WALL
  - 2 LAYERS 5/8" GYP BRD THIS WALL - EXTEND FULL HEIGHT
  - EXTEND WALL W/ GYP BRD-FASIDE FULL HT. TO BOTTOM OF ROOF
  - CONCRETE REINFORCED BLOCK
  - STEEL COLUMN IN STUD WALL
  - TYPICAL EXT. 2x6 WALL W/ R-19, BLOCK VENEER, CONC. CURB

FLOOR PLAN (B)

ALL WALLS WITH CABINETS SHALL BE 2x6 TO ROOF JTS.

ALL EXTERIOR WALLS SHALL BE 3x6 STUDS @ 16" O.C. W/ 5/8" R-19 FIBER GLASS BATT, W/ 1/2" PLYWOOD SHEATHING

**CODE ANALYSIS**

A-3 OCCUPANCY - ASSEMBLY ROOM  
 B-2 OCCUPANCY - CLASSROOMS - OFFICE - LABS

**TYPE OF CONSTRUCTION**

TYPE V - ONE HOUR TABLE 5-C

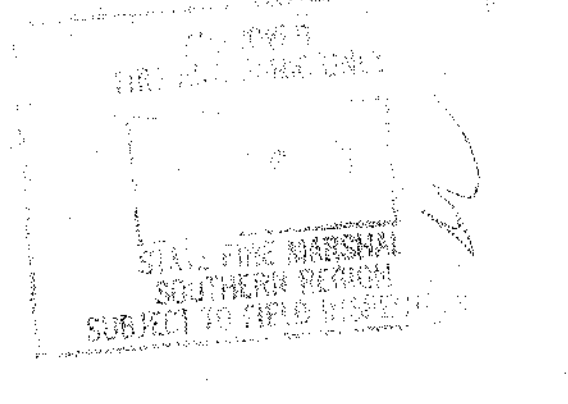
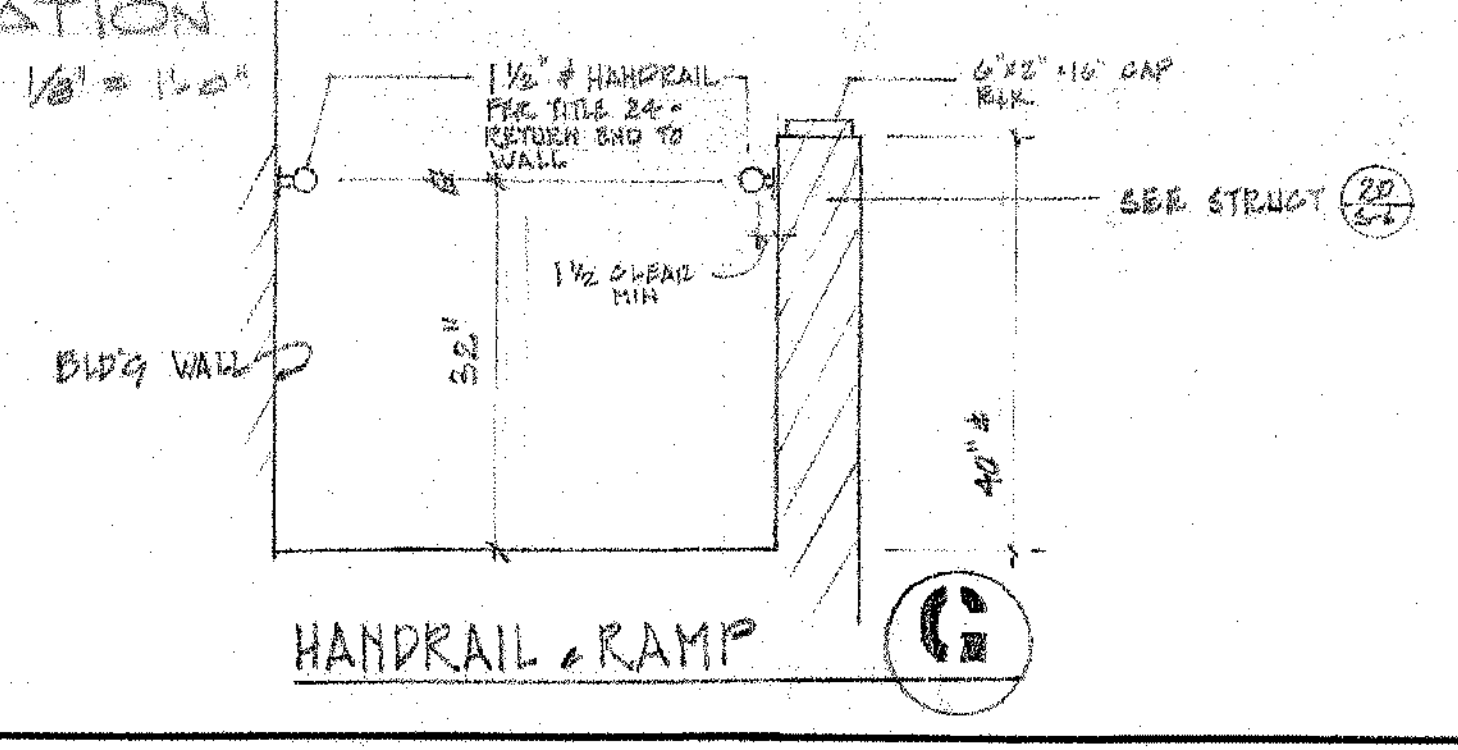
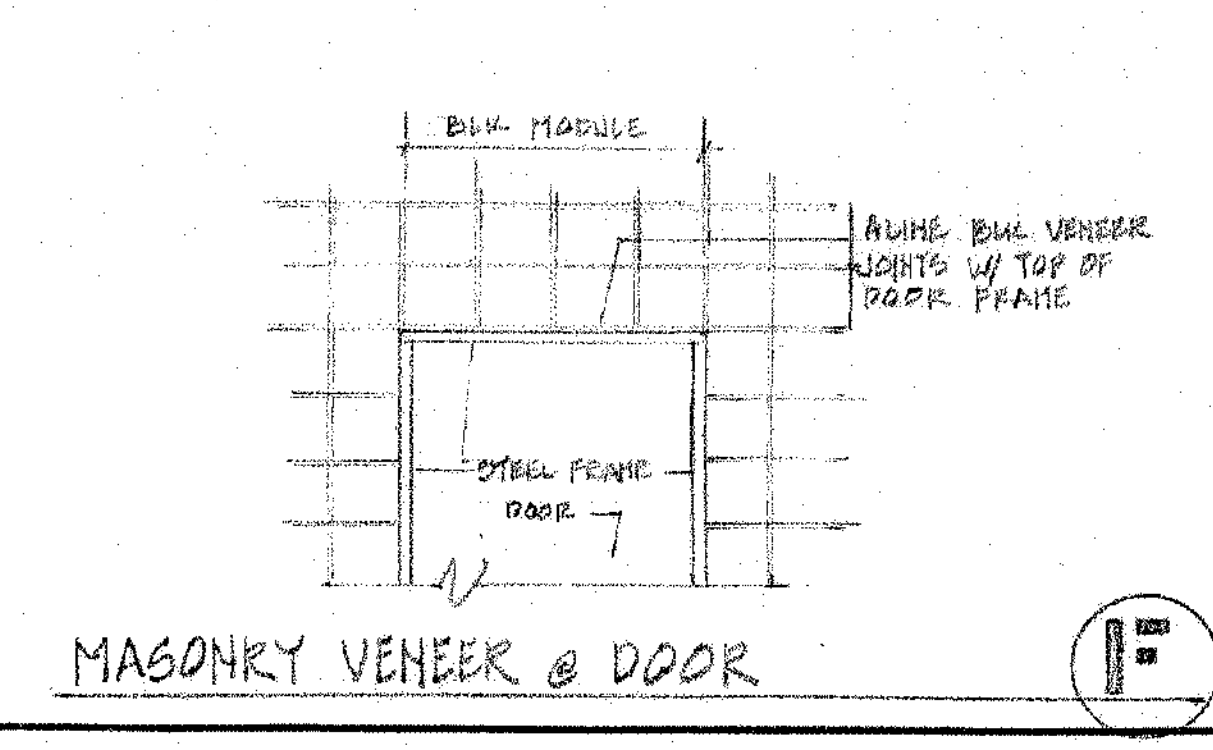
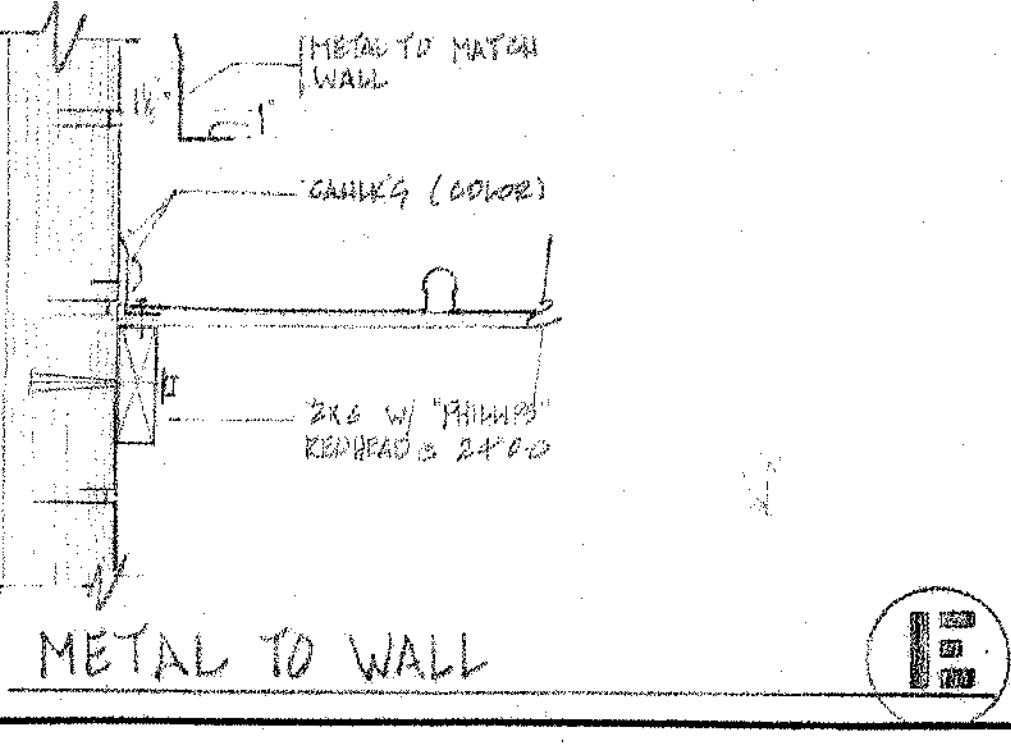
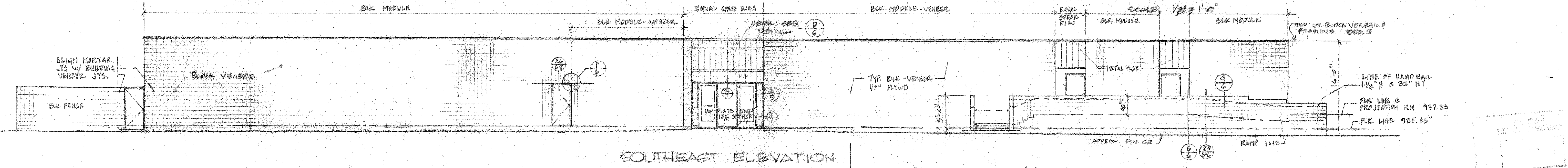
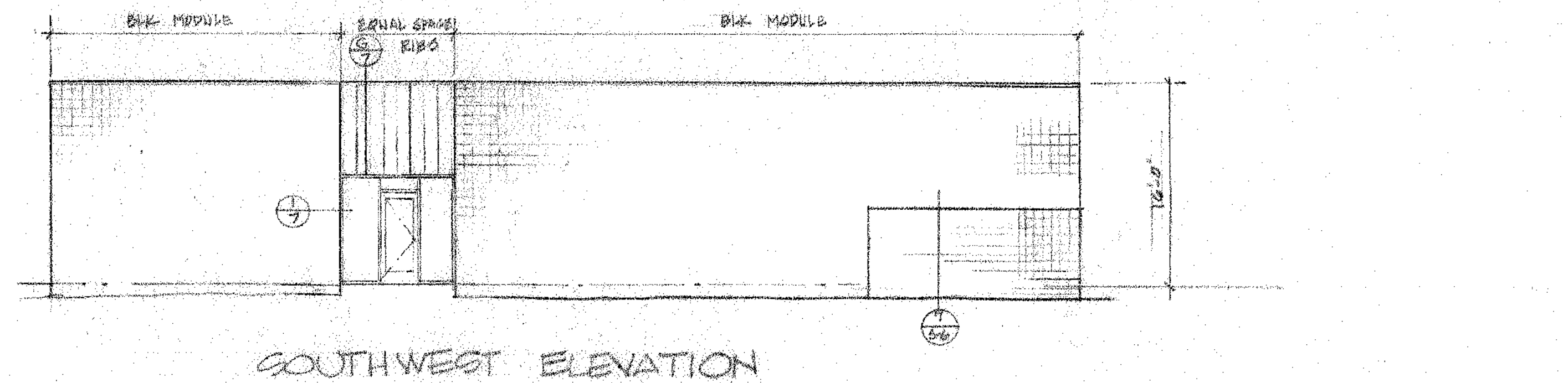
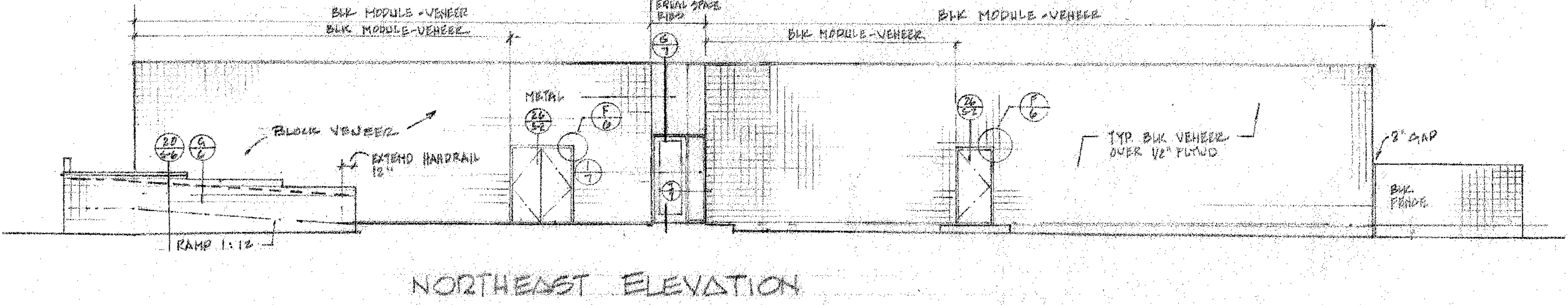
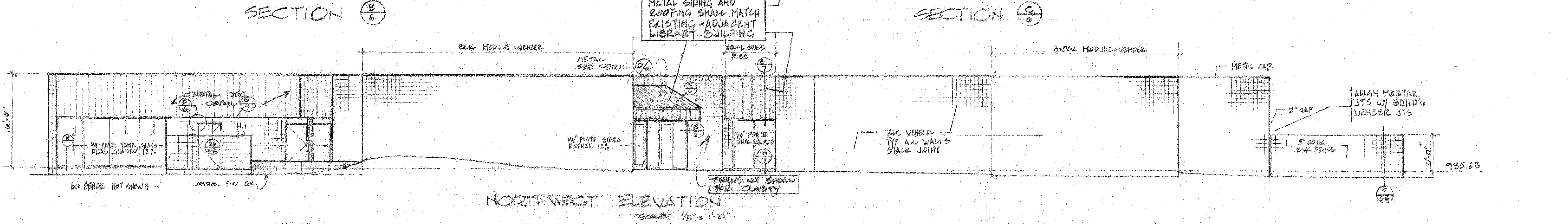
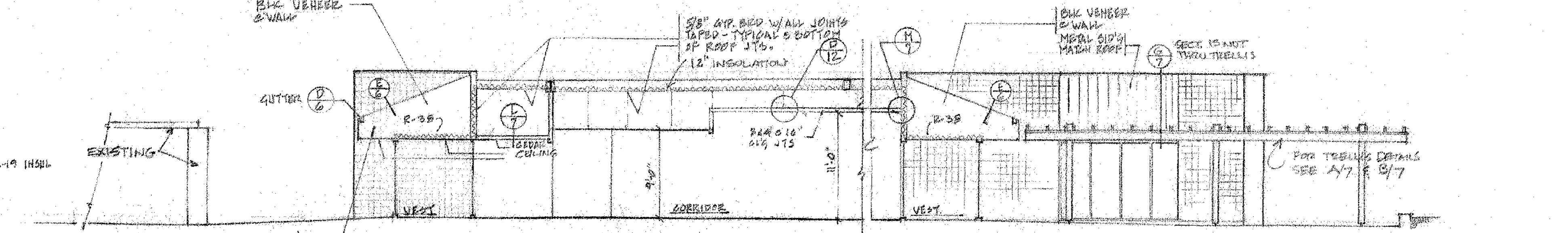
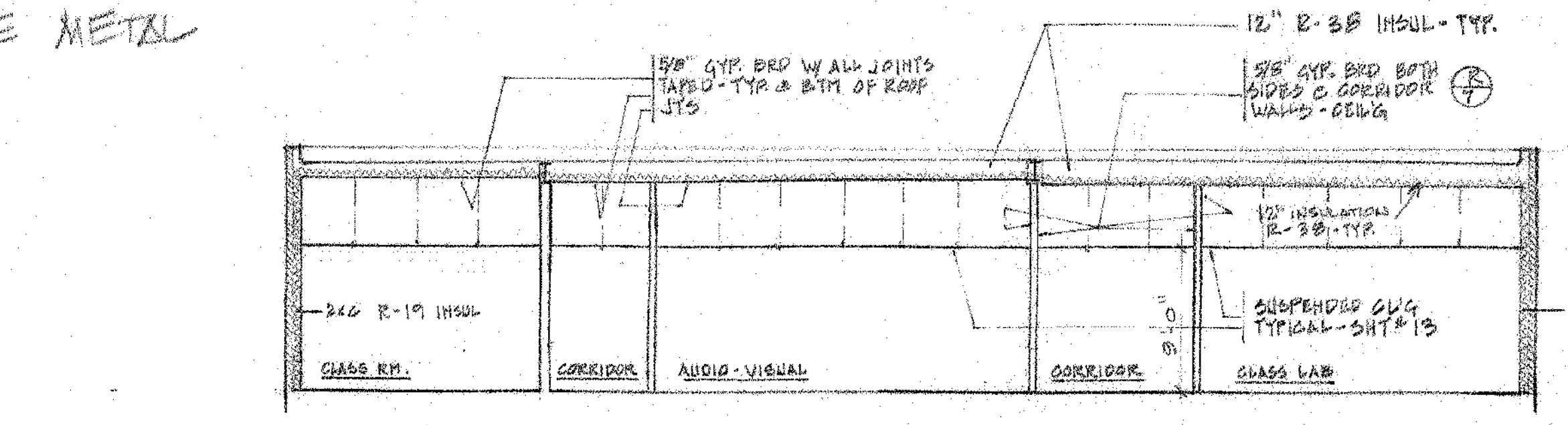
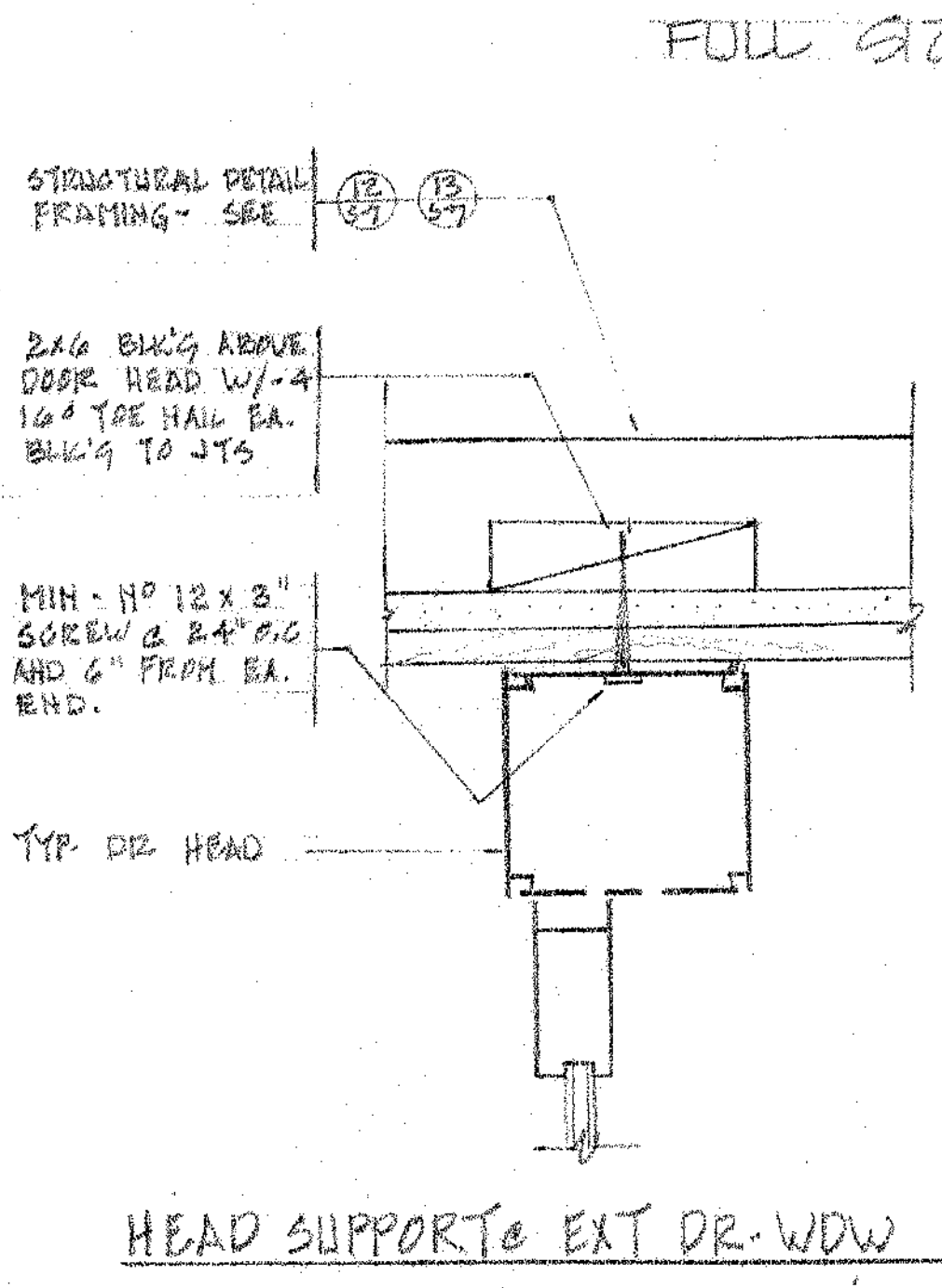
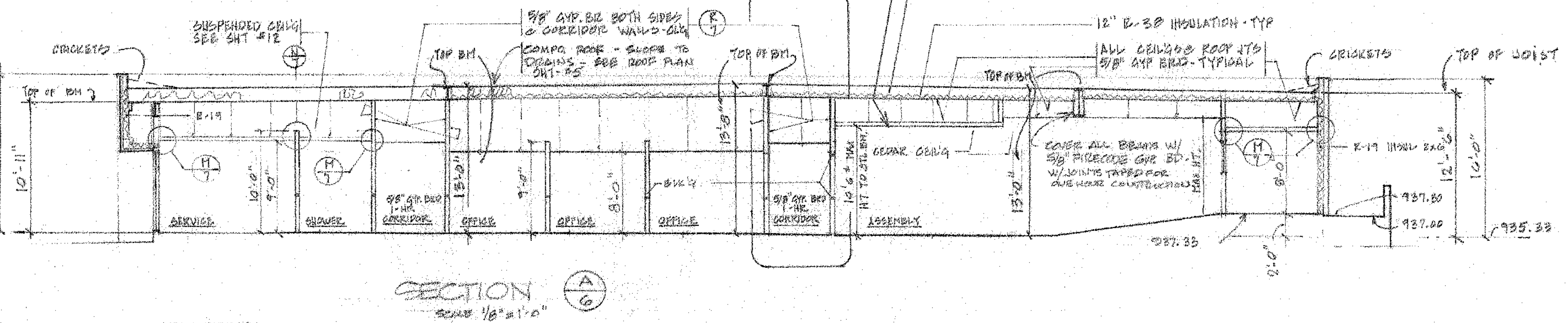
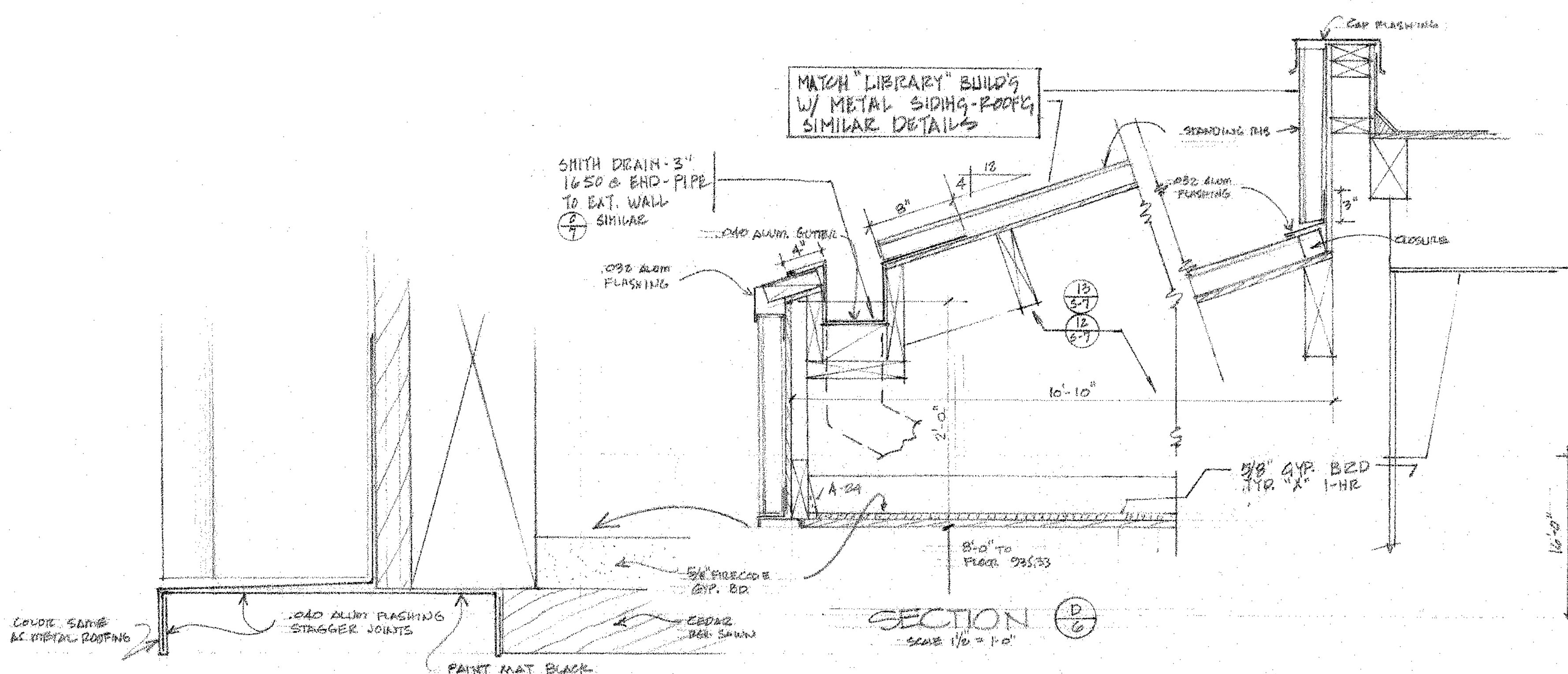
ALLOWABLE AREA W/ OPEN 3-SIDES - 28,000 SQFT

**FLOOR AREA**

A-3	2,300 SQ/FT
B-2	15,110 SQ/FT
TOTAL	17,410 SQ/FT

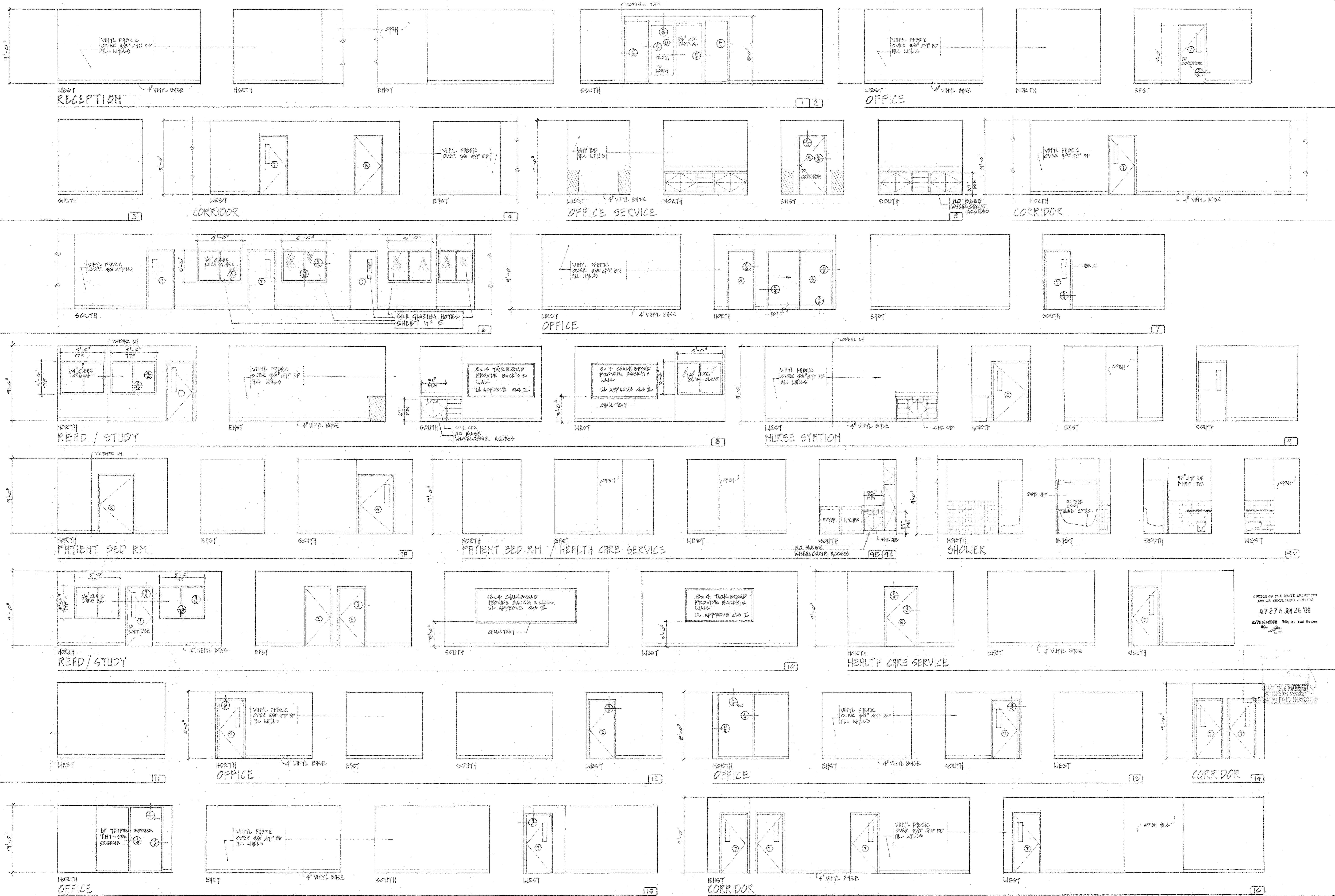
SCALE 1/8" = 1'-0"





DATE OF THIS SET OF DRAWINGS: SUCCESS SUBJECT TO FIELD INSPECTION  
 47276 JUN 26 '86  
 APPROVALS: SEE D. 4 & 5  
 OFFICE OF THE STATE ARCHITECT  
 ARCHITECTURAL STATE'S SECTION  
 A 47276 JUN 26 1986  
 WILLIAM BLUROCK & PARTNERS  
 ARCHITECTS PLANNERS  
 2300 Newport Boulevard / 714 673-0300  
 Newport Beach, California 92660



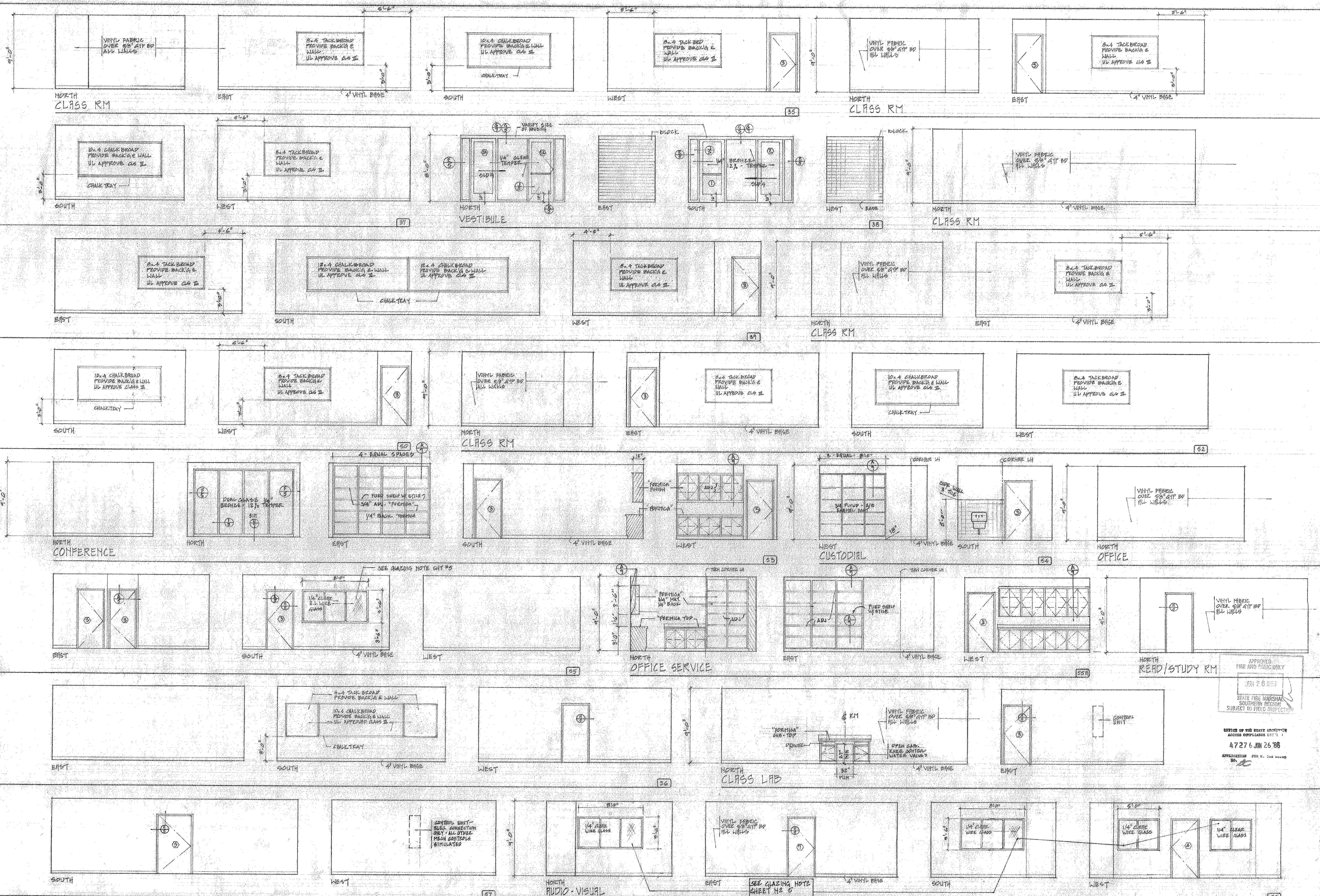


OFFICE OF THE STATE ARCHITECT  
 ARCHITECTURAL SECTION  
 47276 JUN 26 '88  
 APPLICATION FOR THE BOARD  
 No. *[Signature]*

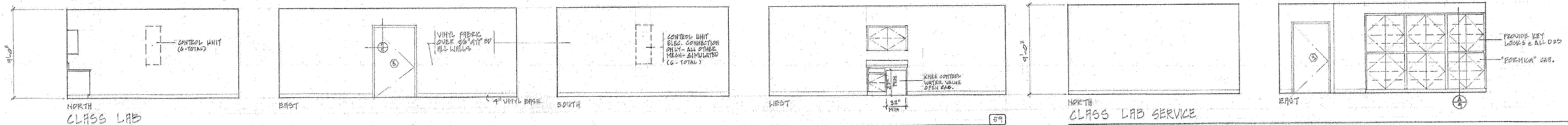
STATE ARCHITECT  
 ARCHITECTURAL SECTION  
 47276 JUN 26 '88





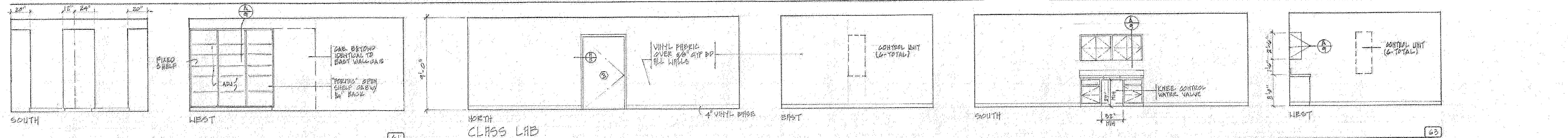


APPROVED  
FIRE AND PAROL ONLY  
JUN 26 1986  
STATE FIRE MARSHAL  
SOUTHERN REGION  
SUBJECT TO FIELD INSPECTION  
OFFICE OF THE STATE ARCHITECT  
STRUCTURAL SAFETY SECTION  
47276 JUN 26 1986  
APPLICATOR PER S. J. JONES



NORTH CLASS LAB

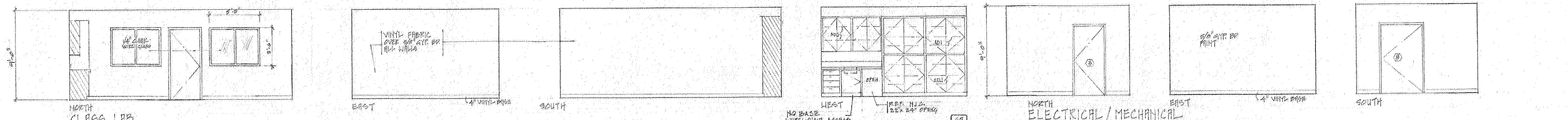
NORTH CLASS LAB SERVICE



SOUTH CLASS LAB

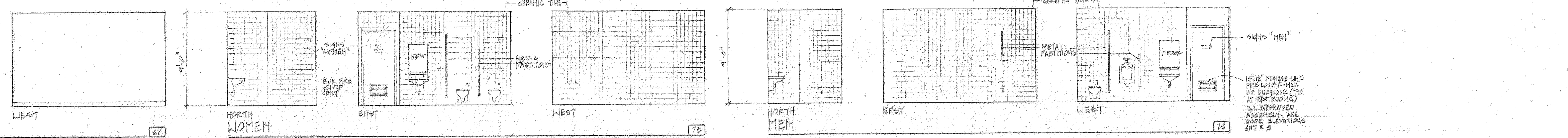
NORTH CLASS LAB

SOUTH CLASS LAB SERVICE



NORTH CLASS LAB

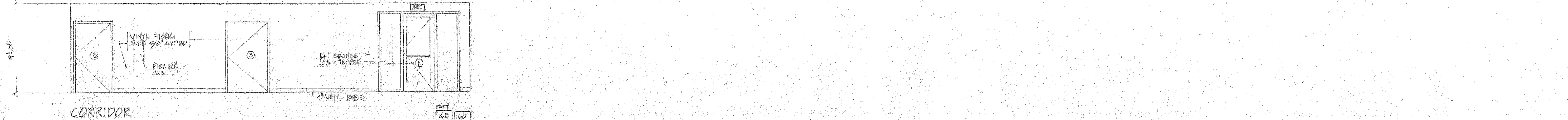
NORTH ELECTRICAL/MECHANICAL



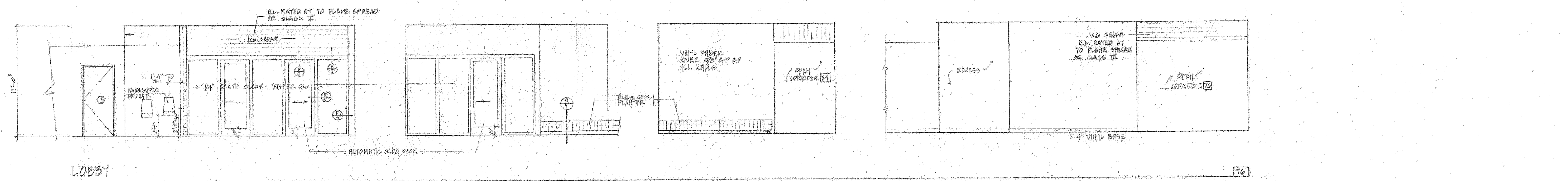
NORTH WOMEN

NORTH MEN

NORTH MEN



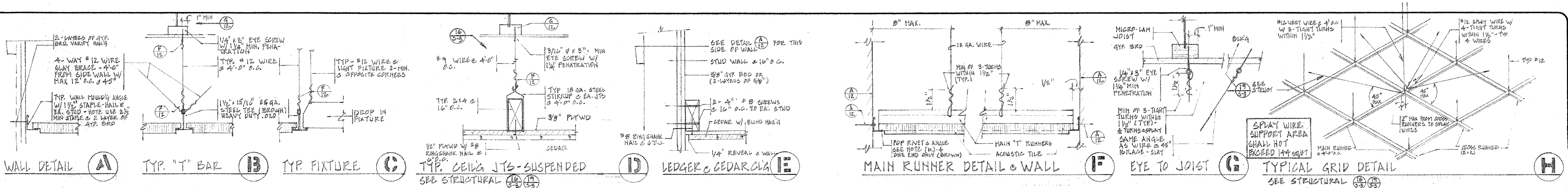
CORRIDOR



LOBBY

APPROVED  
FIRE AND ZONING ONLY  
JUN 26 1985  
STATE FIRE MARSHAL  
SOUTHERN REGION  
SUBJECT TO FIELD INSPECTION

OFFICE OF THE STATE ARCHITECT  
ACCESS OVERLEAF SHEET 1  
47276 JUN 26 1985  
APPROVAL FOR R. J. J. J. J.  
OFFICE OF THE STATE ARCHITECT  
STRUCTURAL SAFETY SECTION  
47276 JUN 26 1985  
APPROVED ARCHITECT  
J. A. SANDERS INC.



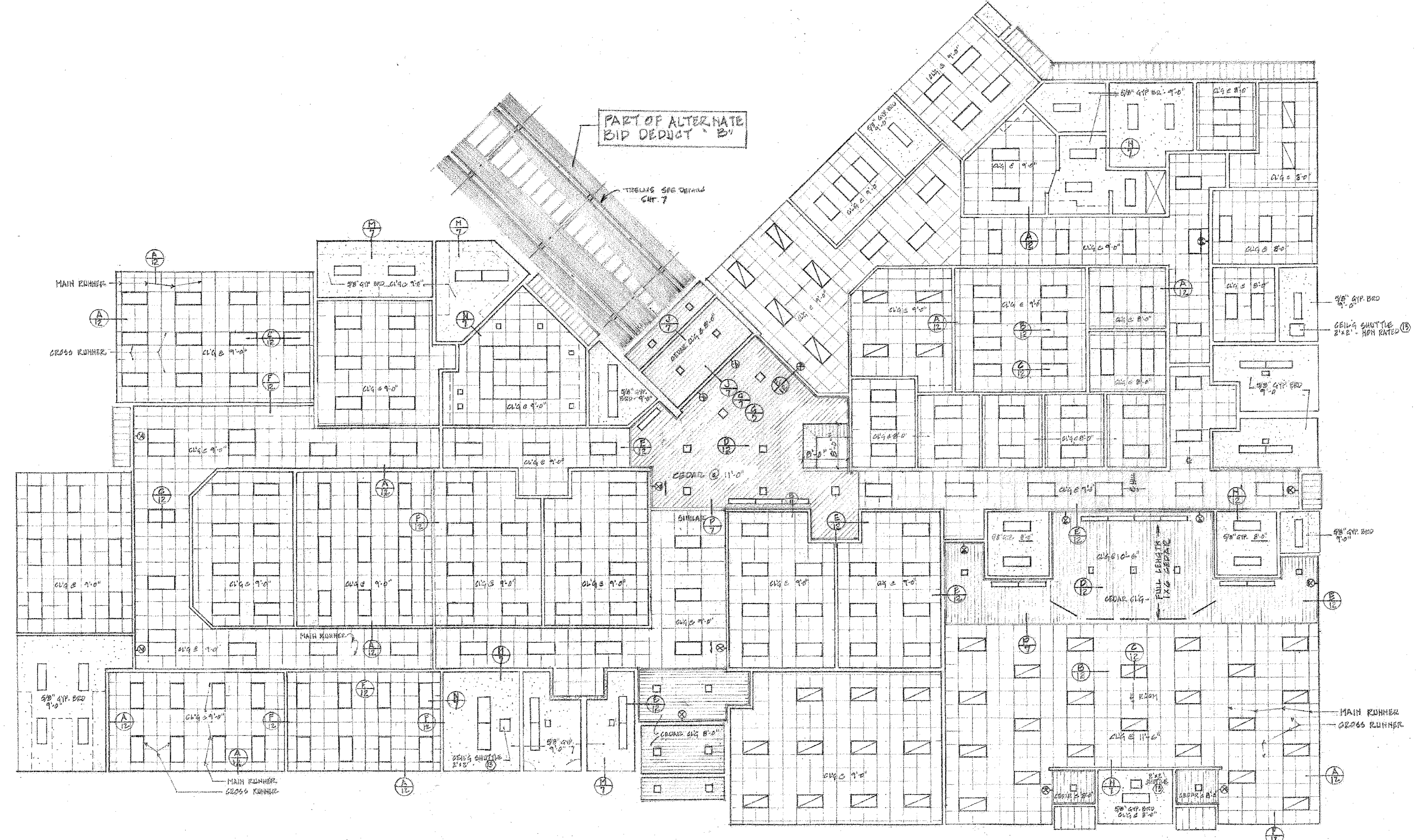
INTERPRETATION OF REGULATIONS  
(Title 21 and Part 2 of Title 24, CAC)

**METAL SUSPENSION SYSTEMS FOR LAY IN PANEL CEILING**

(a) General. Requirements for design and installation of suspended acoustical ceiling systems are contained in UBC Standard No. 47-18 and in Section 2-4701, Title 24 for hospital buildings and public schools. This IR provides notes and details which represent typical methods of complying with these regulations and which are acceptable to the Office of the State Architect (OSA/SSS). Notes and details must be shown on approved contract drawings or specifications. Deferred approvals will not be acceptable. This does not preclude the designer from using other methods of installation if submitted to and approved by OSA/SSS.

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

- (1) 12 ga. (min.) hanger wires may be used for up to and including 4'0" x 4'0" grid spacing. Splices will not be permitted in any hanger wires unless specifically approved by OSA/SSS.
- (2) Provide hanger wires within 8" of the ends of all main and cross runners or at 1/3 of the length of the end two, whichever is least at the perimeter of the ceiling area.
- (3) 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.
- (4) Ceiling grid members may be attached to not more than 2 adjacent walls. Ceiling grid members should be at least 1/4 inch free of other walls. If walls run diagonally to ceiling grid system runners, the end of main and cross runners should be free and a minimum of 1/2 inch clear of wall.
- (5) 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.
- (6) Provide sets of 4 - #12 ga. splayed bracing wires oriented 90° from each other at the following spacing:
  - (A) For school buildings, place sets of splay wires at a spacing not more than 12 feet by 12 feet on center.
  - (B) For hospital buildings, place sets of splay wires at a spacing not more than 8 feet by 12 feet on center.
  - (C) Provide splay wires at locations not more than 1/4 the above spacings from each perimeter wall or at the edge of vertical ceiling offsets for both school and hospital buildings.
 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. Splices in bracing wires are not permitted without special OSA/SSS approval.
- (7) 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 1/4 inches. Hanger or bracing wire anchors to the structure should be installed in such a manner that the direction of the wire aligns as closely as possible with the direction of the forces acting on the wire.
- (8) Separate all ceiling hanging and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc. It is acceptable to attach light-weight items, such as single electrical conduit not exceeding 3/4" nominal diameter, to hanger wires using connectors acceptable to OSA/SSS.
- (9) NOT APPLICABLE
- (10) Attach all light fixtures to the ceiling grid runners to resist a horizontal force equal to the weight of the fixtures.
- (11) Flush or recessed light fixtures and air terminals or services weighing less than 50 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.
- (12) All fixtures and air terminals or services supported on intermediate duty grid systems must be independently supported by not less than 4 #12 ga. wires attached to the structure above.
- All flush or recessed light fixtures and air terminals or services weighing more than 50 pounds 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.
- (13) Support surface mounted light fixtures by at least two positive devices which surround the ceiling runner and which are supported from the structure above by a #12 ga. wire. Spring clips or clamps that connect only to the runner are not acceptable.
- (14) Support pendant mounted light fixtures directly from the structure above with hanger wires or cables passing through each pendant hanger and capable of supporting 4 times the weight of the fixture.
- (15) Recommended note on plans:  
Classification of ceiling grid is "CHICAGO METALLO"  
Classification of ceiling grid is "HEAVY DUTY"  
Manufacturer's catalog number - main runner "HEAVY DUTY No. 1870"  
Manufacturer's catalog number - cross runner "HEAVY DUTY No. 1871"  
Manufacturer's catalog number of detail for runner splice "NONE REQUIRED"



NOTE: INSTALLATION OF BEARING SUSPENSION SYSTEM SHALL NOT BE GRANTED UNTIL DETAILS/HEIGHTS HAVE BEEN REVIEWED WITH ARCHITECT AND ANY DISCREPANCIES AS TO PANEL LAYOUTS HAVE BEEN RESOLVED

ABBREVIATIONS

ADD'L.	ADDITIONAL	LAM.	LAMINATED
ALT.	ALTERNATE	LT. WT.	LIGHTWEIGHT
A.C.I.	AMERICAN CONCRETE INSTITUTE	L.L.	LIVE LOAD
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	L.L.H.	LONG LEG HORIZONTAL
A.I.T.C.	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	L.L.V.	LONG LEG VERTICAL
A.S.T.M.	AMERICAN SOCIETY FOR TESTING AND MATERIALS	L.G.	LONG OR LENGTH
		L.H.	LOW HYDROGEN
ANCH.	ANCHOR	MFR.	MANUFACTURER
A.B.	ANCHOR BOLTS	MAS.	MASONRY
APPROX.	APPROXIMATELY	M.O.	MASONRY OPENING
ARCH.	ARCHITECT	MAX.	MAXIMUM
@	AT	MECH.	MECHANICAL
		MET.	METAL
		MEZZ.	MEZZANINE
BM.	BEAM	MIN.	MINIMUM
BRG.	BEARING	MISC.	MISCELLANEOUS
BT.	BENT	M.B.	UNFINISHED BOLTS
BLK.	BLOCK		
BLKG.	BLOCKING		
BOTT.	BOTTOM	N.L.M.A.	NATIONAL LUMBER MANUFACTURERS ASSOCIATION
B.N.	BOUNDARY NAILS	NAT.	NATURAL
BLDG.	BUILDING	N.I.C.	NOT IN CONTRACT
		N.T.S.	NOT TO SCALE
		NQ.(#)	NUMBER
CLG.	CEILING		
C.J.	CEILING JOIST OR CONSTRUCTION JOINT OR CONTROL JOINT	O.C.	ON CENTER
€	CENTER LINE	OPNG.	OPENING
CL.	CLEAR	OPP.	OPPOSITE
COL.	COLUMN	O.D.	OUTSIDE DIAMETER
CONC.	CONCRETE		
CONN.	CONNECTION		
CONSTR.	CONSTRUCTION	PLY.	PLYWOOD
CONT.	CONTINUOUS	P.C.F.	POUNDS PER CUBIC FOOT
CONTR.	CONTRACTOR	P.S.F.	POUNDS PER SQUARE FOOT
CTSK.	COUNTERSINK	P.S.I.	POUNDS PER SQUARE INCH
		P.A.C.	PNEUMATICALLY APPLIED CONCRETE
		PUN.	PUNCHED
		PL.	STEEL OR WOOD PLATE
d	PENNY		
D.L.	DEAD LOAD		
DET.	DETAIL		
DIAG.	DIAGONAL	RAD.	RADIUS
DIA.	DIAMETER	RAFT.	RAFTER
DIM.	DIMENSION	REINF.	REINFORCING
DO	DITTO	REQ'D.	REQUIRED
DBL.	DOUBLE	REQMT.	REQUIREMENT
D.F.	DOUGLAS FIR	RF.	ROOF
DWL.	DOWEL	R.D.	ROOF DRAIN
DN.	DOWN	RO.	ROUGH
DWG.	DRAWING	R.O.	ROUGH OPENING
EA.	EACH	SEC.	SECTION
E.F.	EACH FACE	SEL.	SELECT
E.S.	EACH SIDE	SCHED.	SCHEDULE
E.W.	EACH WAY	SHTG.	SHEATHING
E.N.	EDGE NAILS	SHT.	SHEET
ELEC.	ELECTRICAL	S.M.	SHEET METAL
ELEV.	ELEVATION	SIM.	SIMILAR
ENG.	ENGINEER	SPCG.	SPACING
EQ.	EQUAL	SPECS.	SPECIFICATIONS
EQUIP.	EQUIPMENT	SQ.	SQUARE
EXCAV.	EXCAVATION	STGR.	STAGGER
EXIST.	EXISTING	STD.	STANDARD
EXT.	EXTERIOR	STL.	STEEL
		S.J.	STEEL JOIST
		STIFF.	STIFFENER
		STIRR.	STIRRUP
F.O.C.	FACE OF CONCRETE	STRUCT.	STRUCTURAL
F.O.M.	FACE OF MASONRY	SYM.	SYMMETRICAL
F.O.S.	FACE OF STUD		
FIN.	FINISH		
F.H.W.S.	FLAT HEAD WOOD SCREW		
FL.	FLOOR	T.S.G.	TAPERED STEEL GIRDER
FTG.	FOOTING	TEMP.	TEMPERATURE
FNDN.	FOUNDATION	THK.	THICK
		THRU.	THROUGH
		T & G.	TONGUE & GROOVE
		T & B.	TOP & BOTTOM
GALV.	GALVANIZE	T.L.	TOTAL LOAD
GA.	GUAGE	TYP.	TYPICAL
GLU-LAM	GLUED LAMINATED		
G.L.B.	GLUED LAMINATED BEAM		
GR.	GRADE	U.B.C.	UNIFORM BUILDING CODE
		U.N.O.	UNLESS NOTED OTHERWISE
		UNP.	UNPUNCHED
HGR.	HANGER		
HT.	HEIGHT		
H.S.B.	HIGH STRENGTH BOLTS		
H.D.	HOLD DOWN	VERT.	VERTICAL
HK.	HOOK		
HORIZ.	HORIZONTAL		
		WP.	WATER PROOF
INT.	INTERIOR	WT.	WEIGHT
INV.	INVERT	W.W.F.	WELDED WIRE FABRIC
		W.	WITH
		WD.	WOOD
JST.	JOIST	W.P.	WORKING POINT
		W.S.D.	WORKING STRESS DESIGN

GENERAL NOTES

- GENERAL**
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
  - DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
  - NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
  - ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODE: THE 1979 EDITION OF THE UNIFORM BUILDING CODE, TITLE 21 4-24 AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
  - SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, ETC. AS NOTED. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS. SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFER, GROOVES, INSERTS, ETC. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXC. AS SHOWN. FLOOR AND ROOF FINISHES. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
  - SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING: PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC. EXCEPT AS SHOWN OR NOTED. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
  - THE CONTRACTOR SHALL REVIEW THE SOIL REPORT AT THE ARCHITECT'S OFFICE AND COMPLY WITH ALL OF ITS REQUIREMENTS. (STRUCTURE COMPACTION OPERATIONS (SOIL STABILIZATION) SHALL EXTEND FIVE (5) FEET BEYOND THE BUILDING LINES).
- FOUNDATION**
- FOUNDATION DESIGN BASED ON SOIL REPORT BY THE FOLLOWING: JOHN D. HESS TESTING CORPORATION. COPIES ARE AVAILABLE FOR REVIEW AT THE ARCHITECTS OFFICE. \*(SEE ADDL. NOTE BELOW)
  - SOIL BEARING VALUE: 1500 P.S.F. AT 2'-0" BELOW EXISTING GRADE ON NATURAL SOIL.
  - CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE.
  - EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE SOILS ENGINEER PRIOR TO PLACING THE CONCRETE AND REINFORCING. CONTRACTOR TO NOTIFY SOILS ENGINEER WHEN INSPECTION OF EXCAVATION IS READY. SOILS ENGINEER TO SUBMIT LETTER OF COMPLIANCE TO THE OWNER.
  - ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED.
  - FOOTINGS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON DRAWINGS. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE SOILS ENGINEER, FOOTING ELEVATIONS WILL BE ALTERED BY CHANGE ORDER.
  - FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS, TO THE APPROVAL OF THE SOILS ENGINEER. FLOODING WILL NOT BE PERMITTED.
  - ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.
- CONCRETE**
- ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE' (ACI 318 LATEST APPROVED EDITION) WITH MODIFICATIONS AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
  - CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND REVIEWED BY THE STRUCTURAL ENGINEER.
  - SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTHS & TYPES:
- | LOCATION IN STRUCTURE           | STRENGTH PSI | TYPE      |
|---------------------------------|--------------|-----------|
| SLABS ON GRADE (NON-STRUCTURAL) | 2500         | HARD ROCK |
| FOUNDATIONS, PLASTER WALLS      | 3000         | HARD ROCK |
- PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE 1 OR TYPE 11.
  - AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.
  - DRY PACK UNDER BASEPLATES, SILL PLATES, ETC., SEE SPECIFICATIONS.
  - CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C-94.
  - PLACEMENT OF CONCRETE SHALL CONFORM TO ACI STANDARD 614 AND PROJECT SPECIFICATIONS. SANDBLAST ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED.
  - CLEAR COVERAGE OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE AS FOLLOWS:  
CONCRETE POURED DIRECTLY AGAINST EARTH, 3 IN. CLEAR TO REINFORCING.  
FORMED CONCRETE WITH EARTH BACKFILL, 2 IN. CLEAR.
- REINFORCING STEEL (FOR CONCRETE AND MASONRY)**
- ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (LATEST EDITION AND SUPPLEMENTS).
  - ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION A-36 UNLESS OTHERWISE NOTED. STEEL TUBES SHALL CONFORM TO ASTM A500, GRADE B.
  - ALL BOLTS SHALL CONFORM TO ASTM A-307, GRADE 'A' EXC. AS NOTED.
  - THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STEEL FOR ARCHITECTS REVIEW BEFORE FABRICATION.
  - BOLT HOLES IN STEEL SHALL BE 1/16 IN. LARGER DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED.
  - ALL STRUCTURAL STEEL SURFACES THAT ARE ENCASED IN CONCRETE OR MASONRY OR ARE ENCASED BY BUILDING FINISH, SHALL BE LEFT UNPAINTED.
  - ALL WELDS SHALL BE IN CONFORMITY WITH THE CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1) OF THE AMERICAN WELDING SOCIETY. SEE SPECIFICATIONS.
  - WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED.
  - WELDING TESTS AND INSPECTIONS - SEE SPECIFICATIONS.
  - ALL EXPOSED STRUCTURAL STEEL AND MISCELLANEOUS METAL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
- MASONRY**
- CONCRETE BLOCK SHALL BE HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO A.S.T.M. C-90, N.I. USE OPEN END UNITS FOR STACKED BOND PATTERN.
  - CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.
  - REINFORCING BARS - SEE NOTES UNDER 'REINFORCING STEEL' FOR REQUIREMENTS.
  - MORTAR MIX SHALL CONFORM TO REQUIREMENTS OF TITLE 24, 2-2403(r). - MORTAR SHALL ATTAIN A COMPRESSIVE STRENGTH OF 1800 P.S.I. AT 28 DAYS. ADMIXTURE SHALL BE ONE PINT OF 'SIKA RED LABEL' PER SACK OF CEMENT.
  - GROUT SHALL CONFORM TO REQUIREMENTS OF TITLE 24, 2-2403(s) FOR COARSE GROUT. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL JOINTS OF THE MASONRY WITHOUT SEGREGATION. ADD 1 PINT OF SIKA GROUT ADTYPE II PER SACK OF CEMENT FOR BLOCK MASONRY. GROUT SHALL ATTAIN 2000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.
  - PROVIDE A MINIMUM 3/4 IN. GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
  - LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT FOR CONCRETE BLOCK IS 2 FEET.
  - HIGH LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WITH TITLE 24, 2-2416(c) AND IR 24-4.
  - ALL CELLS IN CONCRETE BLOCK SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.
  - CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING STEEL.
  - REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE TEXTURE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.

DRAFTING SYMBOLS

DETAIL REFERENCE		DETAIL NUMBER SHEET NUMBER WHERE DETAIL IS DRAWN
SECTION REFERENCE		DETAIL NUMBER SHEET NUMBER WHERE SECTION IS DRAWN
ELEVATION REFERENCE		ELEVATION NUMBER SHEET NUMBER WHERE ELEVATION IS DRAWN
SHEATHED WALL REFERENCE		REFER TO (Sheet/Detail)
HOLD DOWN ANCHOR REFERENCE		WOOD STUD WALL LETTER DENOTES SIZE H.D. ANCHOR LOCATION

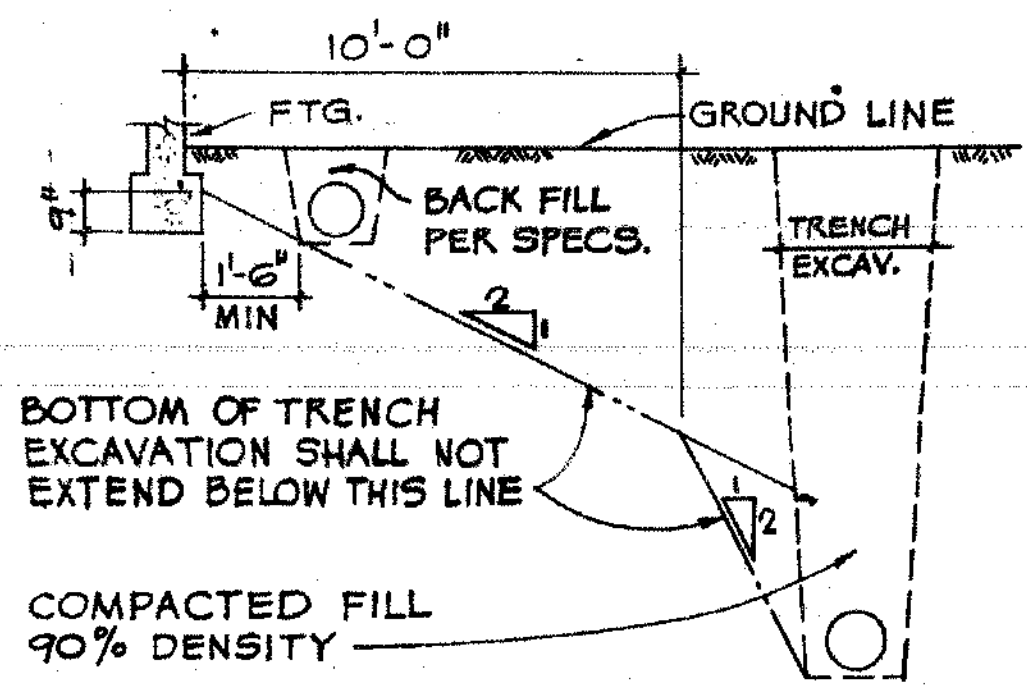
MATERIALS SYMBOLS

STRUCTURAL STEEL	
CONCRETE	
BRICK	
WOOD STUDS	

SCHEDULE OF STRUCTURAL DRAWINGS

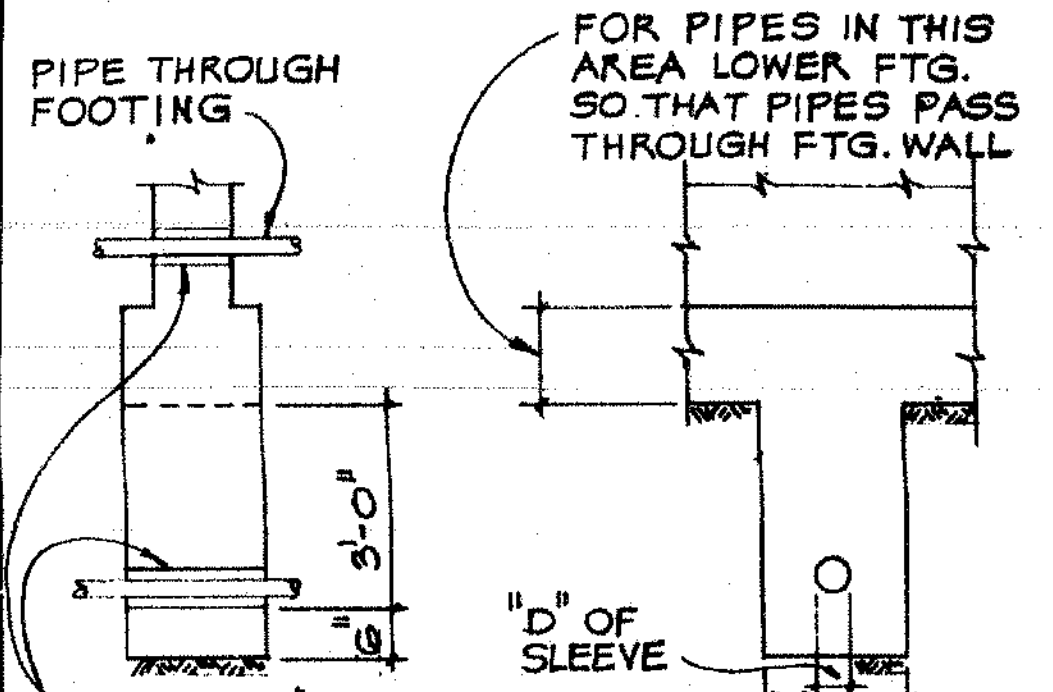
- 01 GENERAL NOTES & ABBREVIATIONS
- 02 TYPICAL DETAILS
- 03 TYPICAL DETAILS
- 04 FOUNDATION PLAN
- 05 ROOF FRAMING PLAN
- 06 FOUNDATION DETAILS
- 07 ROOF FRAMING DETAILS

- WOOD**
- FRAMING LUMBER SHALL BE DOUGLAS FIR NO. 1 GRADE, UNLESS OTHERWISE NOTED. STUDS SHALL BE DOUGLAS FIR STUDS GRADE FOR 2 X 4, AND NO. 2 GRADE FOR LARGER PIECES, UNLESS OTHERWISE NOTED.
  - ALL PLYWOOD SHALL BE STRUCTURAL I CONFORMING TO PRODUCT STANDARD PS 1-33. USE PLYWOOD NAILS SAME GA. OR LARGER AS COMMON WIRE NAILS, WITH LENGTHS AT LEAST EQUAL TO PLYWOOD THICKNESS PLUS REQ. PENETRATION PER U.B.C., TABLE NO. 25G.
  - BOLT HOLES SHALL BE 1/16 IN. LARGER DIAMETER THAN NOMINAL SIZE OF BOLT USED. RETIGHTEN ALL NUTS PRIOR TO CLOSING IN.
  - STANDARD CUT WASHERS SHALL BE USED UNDER BOLT HEADS AND NUTS AGAINST WOOD. USE HEAVY POLT OR MALLEABLE IRON WASHERS WHERE NOTED.
  - ALL STUD PARTITIONS OR WALLS OVER 10 FT. HIGH SHALL HAVE 2 X BRIDGING, SAME WIDTH AS STUD, PREFERABLY AT MID-HEIGHT BUT NOT TO EXCEED INTERVALS OF 8 FT.
  - DO NOT BORE OR NOTCH JOISTS, RAFTERS, OR BEAMS EXCEPT WHERE SHOWN IN DETAILS. OBTAIN ENGINEER'S APPROVAL FOR ANY HOLES OR NOTCHES NOT DETAILED. HOLES THROUGH SILLS, PLATES, STUDS AND DOUBLE PLATES IN INTERIOR, BEARING, AND SHEAR WALLS SHALL NOT EXCEED 1/4 THE PLATE OR STUD WIDTH. USE BORED HOLES LOCATED IN THE CENTER OF STUD OR PLATE.
  - ALL CONNECTOR REFERENCES, UNLESS NOTED OTHERWISE ARE FROM 'SIMPSON STRONG-TIE' CATALOG (LATEST PRINTING). APPROVED EQUALS SHALL HAVE MATCHING I.C.B.O. RATINGS. WHERE MORE THAN ONE TYPE OF FASTENER, IN THE REFERENCE SERIES, IS SCHEDULED FOR A JOIST OR RAFTER, THE CONTRACTOR SHALL SUPPLY THE FASTENER WITH THE GREATEST CAPACITY. PLACE NAILS IN EVERY NAIL HOLE (NAIL SIZE AS SPECIFIED IN CATALOG AND I.C.B.O. APPROVAL), UNLESS OTHERWISE NOTED.
- TRUS-JOIST**
- TRUS JOISTS (TJI) ARE AS MANUFACTURED BY "TRUS-JOIST CORPORATION" AND SHALL BE MADE UP WITH "MICRO-LAM" CHORD MEMBERS AND PLYWOOD WEB MEMBERS.
  - BLOCKING AND BRIDGING SHALL BE INSTALLED IN CONFORMANCE WITH DESIGN INFORMATION FOR TRUS-JOIST IN CALIFORNIA SCHOOLS AND HOSPITALS.
  - "TRUS-JOIST CORPORATION" SHALL SUPPLY SHOP DRAWINGS AND SUPPORTING CALCULATIONS TO THE ARCHITECT. SHOP DRAWINGS SHALL BE APPROVED BEFORE START OF FABRICATION.
  - FOR TJI-35 DESIGN :  
DL = 16.5 LB/SQ.FT.  
LL = 20.0 LB/SQ.FT.
- MACHINE APPLIED NAILING**
- THE USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOIST SITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL OF THE PROJECT STRUCTURAL ENGR. AND THE OFFICE OF THE STATE ARCHITECT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED FOR 5/16" PLYWOOD. IF NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER, OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.



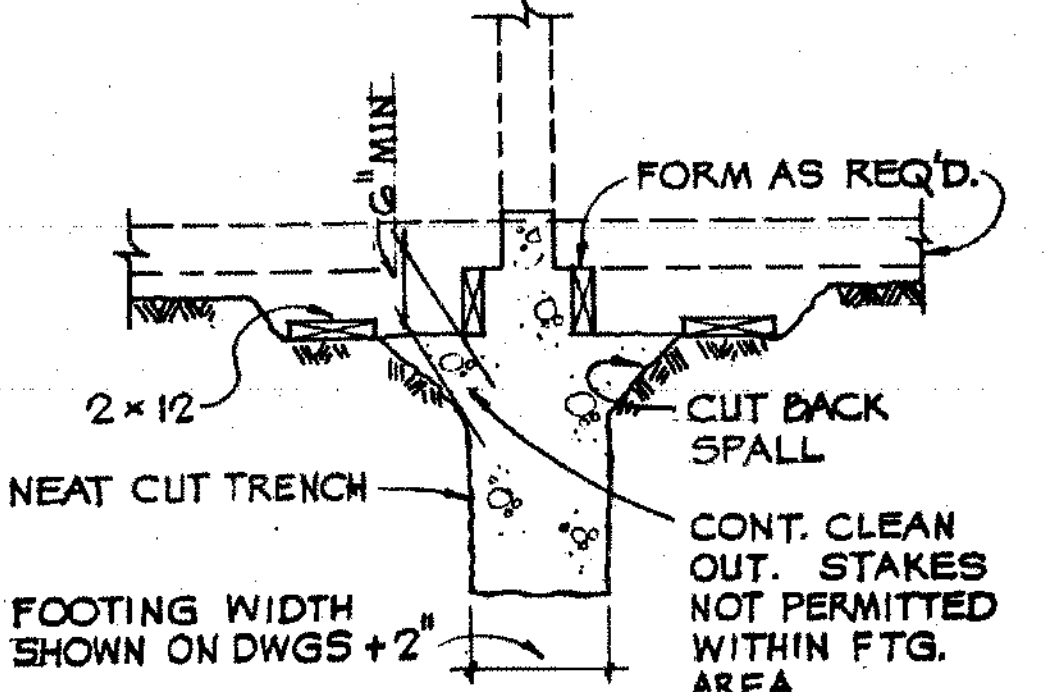
NOTE: THE CONTRACTOR SHALL COORDINATE ALL EXCAVATION OPERATIONS WITH BUILDING FOUNDATION REQUIREMENTS.

**EXCAVATION PARALLEL TO FOOTINGS** ①



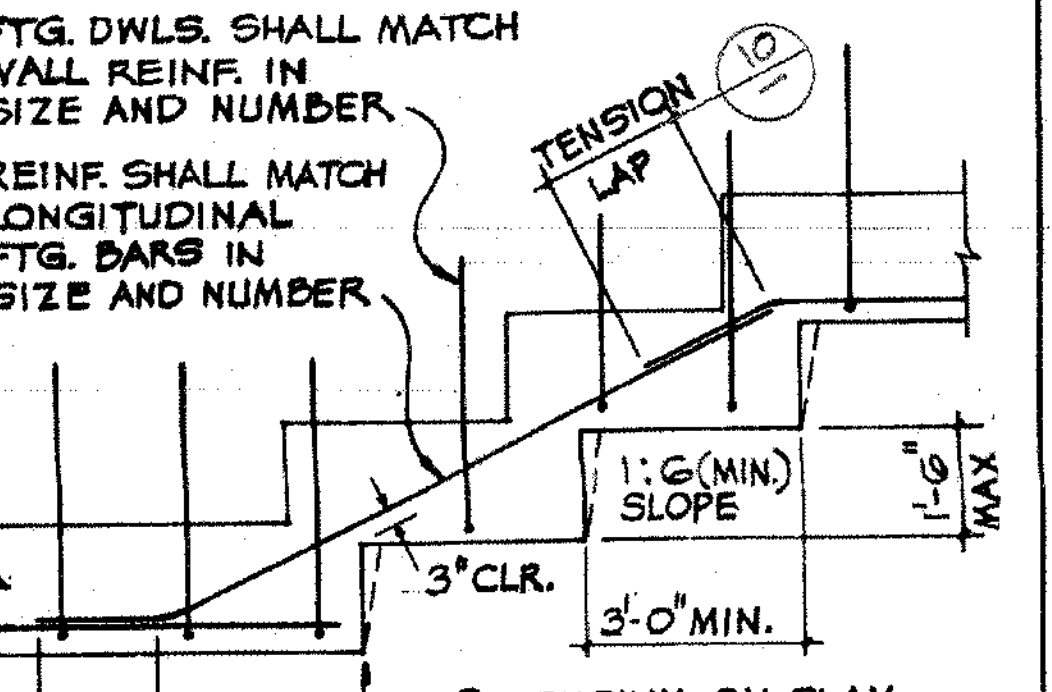
NOTE: FOR PIPES 3'-0" OR LESS BELOW FTGS. PROVIDE SLEEVE AND CONCRETE AS SHOWN; MORE THAN 3'-0" USE STEPPED FTG. TO STAY WITHIN 3'-0" LIMIT.

**EXCAVATION PERPENDICULAR TO FOOTINGS** ②

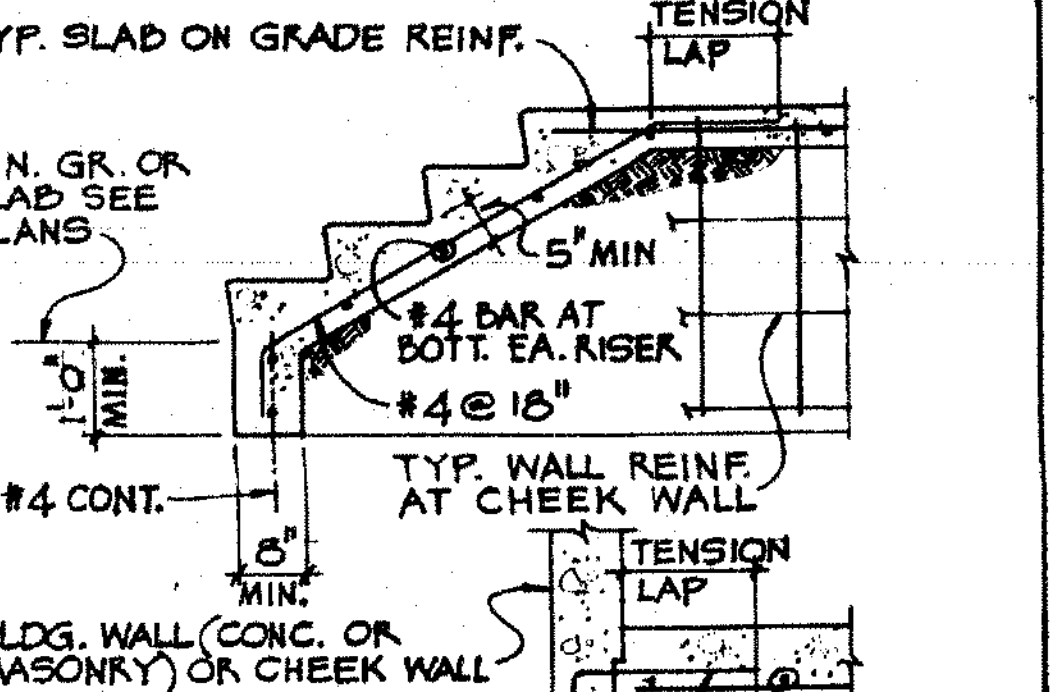


NOTE: FOOTINGS POURED AGAINST EARTH ARE SUBJECT TO APPROVAL OF STRUCTURAL ENGINEER AND OFFICE OF THE STATE ARCHITECT.

**FOOTINGS POURED AGAINST EARTH** ③

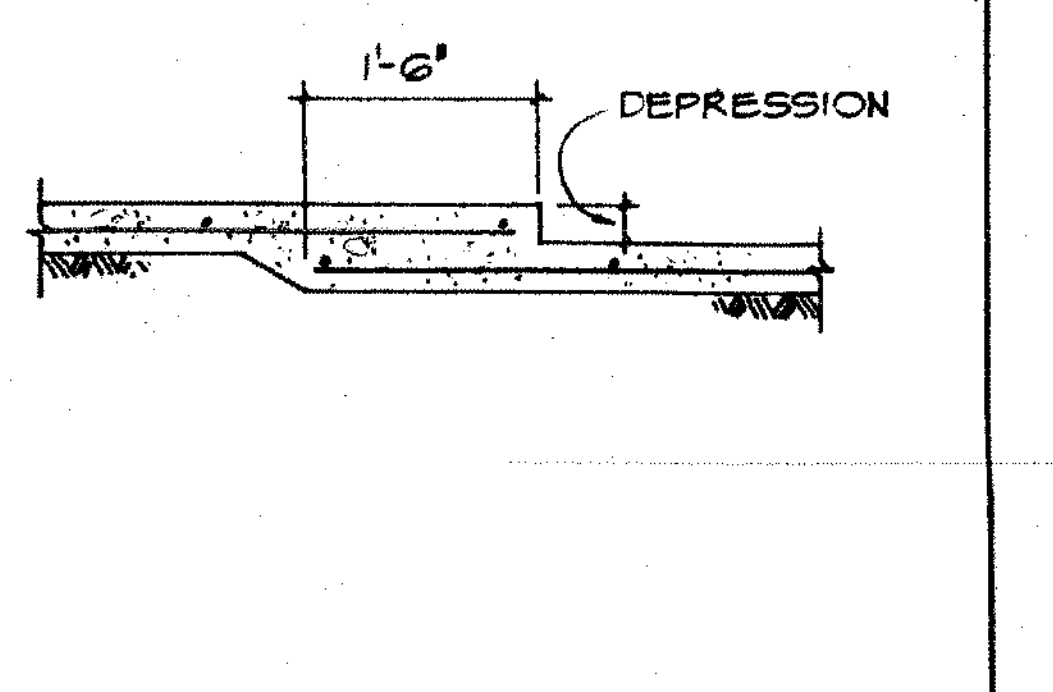


**STEPPED FOOTING** ④

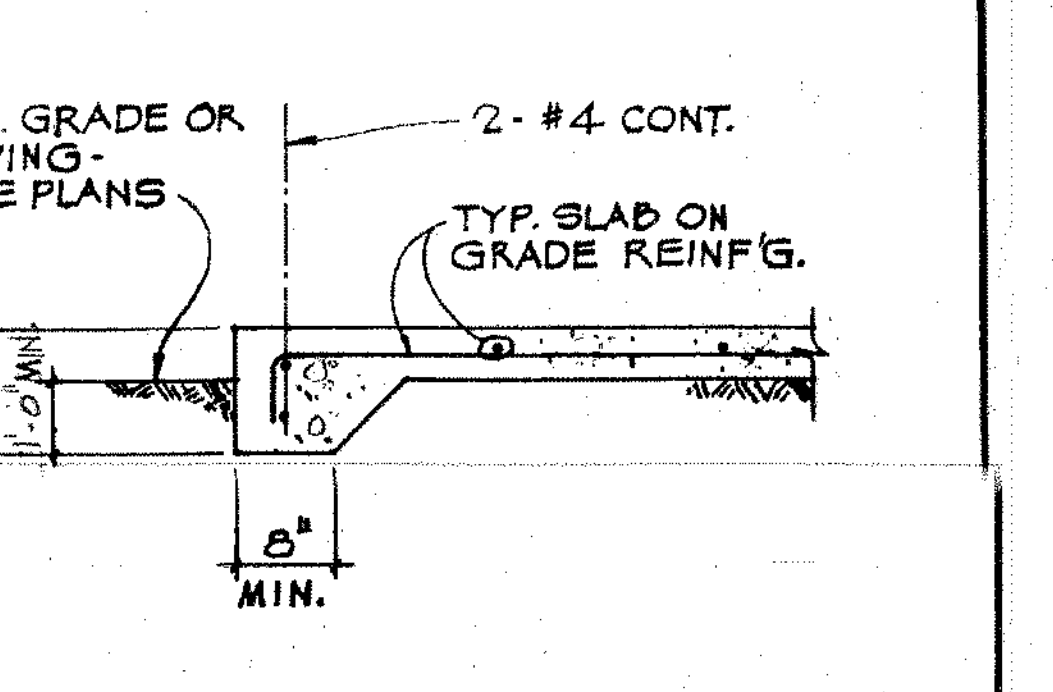


NOTE: WHERE CHEEK WALL IS REQ'D. PROVIDE 8" THICK CONC. WALL WITH #5 HORIZ. @ 16" #4 VERT. @ 16"

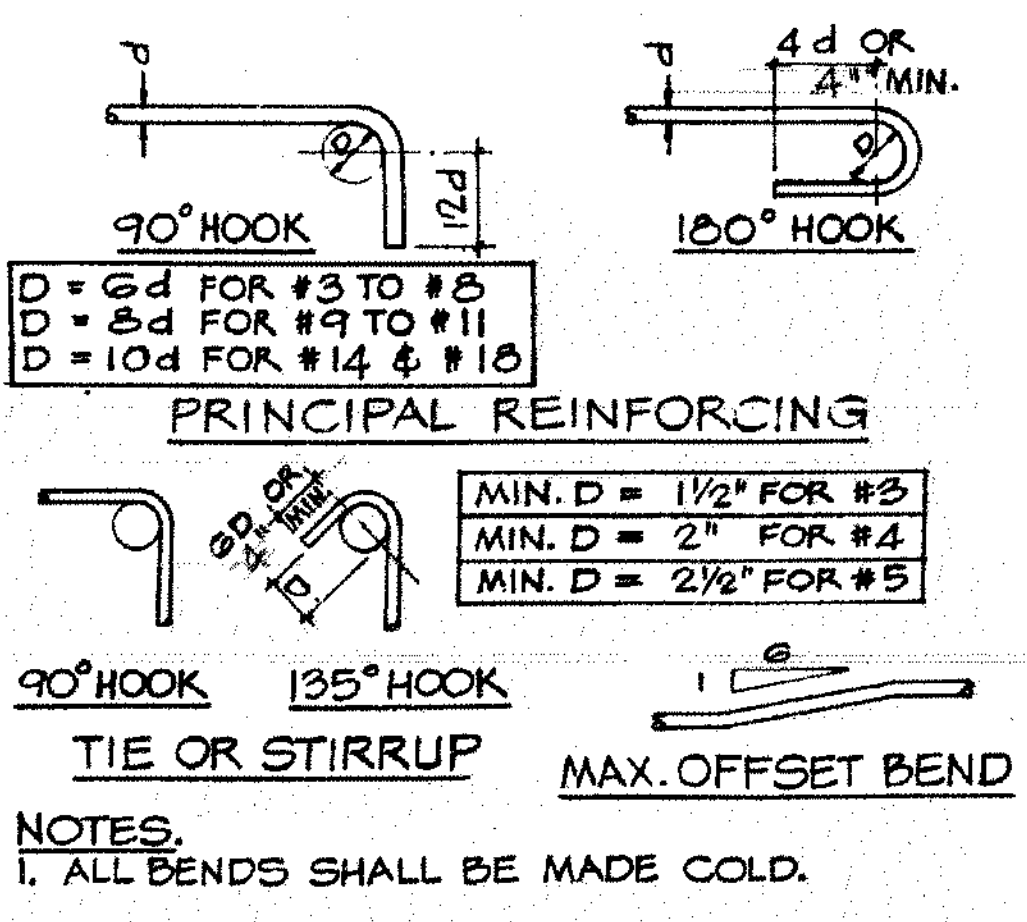
**CONCRETE STAIR ON GRADE** ⑤



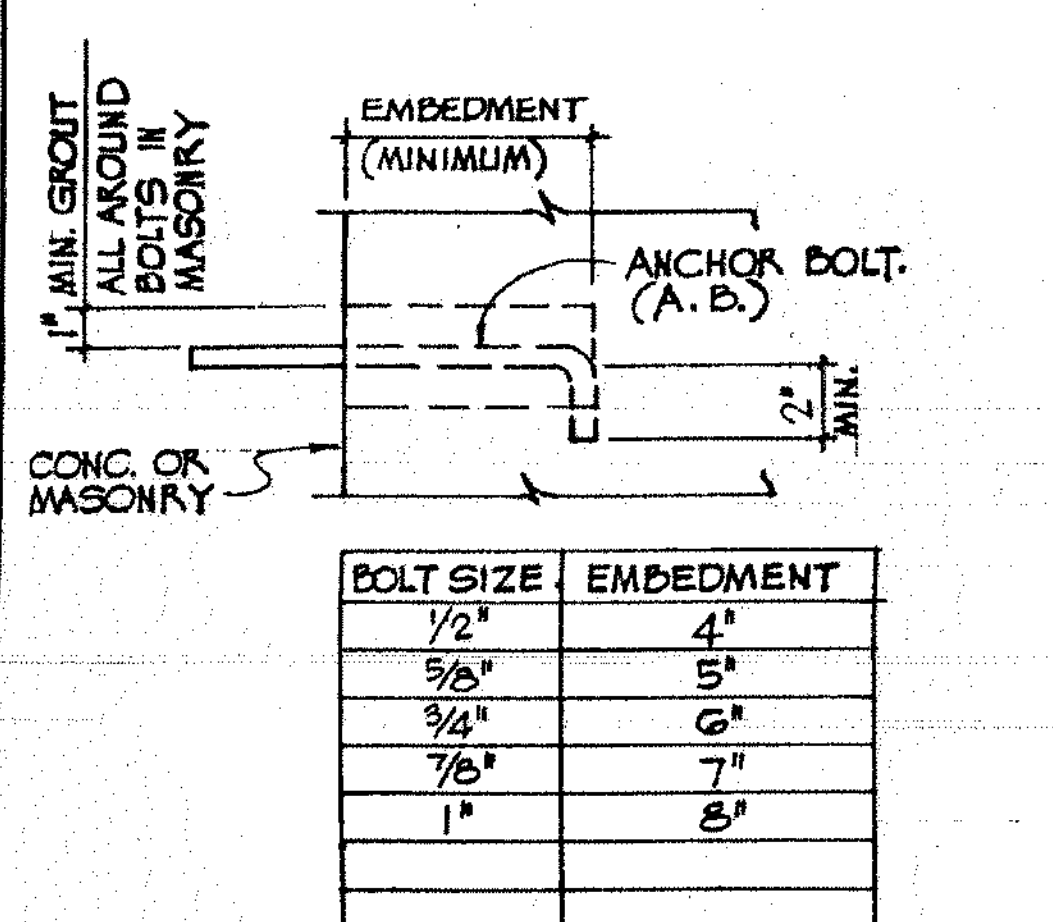
**DEPRESSED SLAB ON GRADE** ⑥



**NON-STRUCTURAL SLAB EDGE** ⑦



**BAR BENDS** ⑧

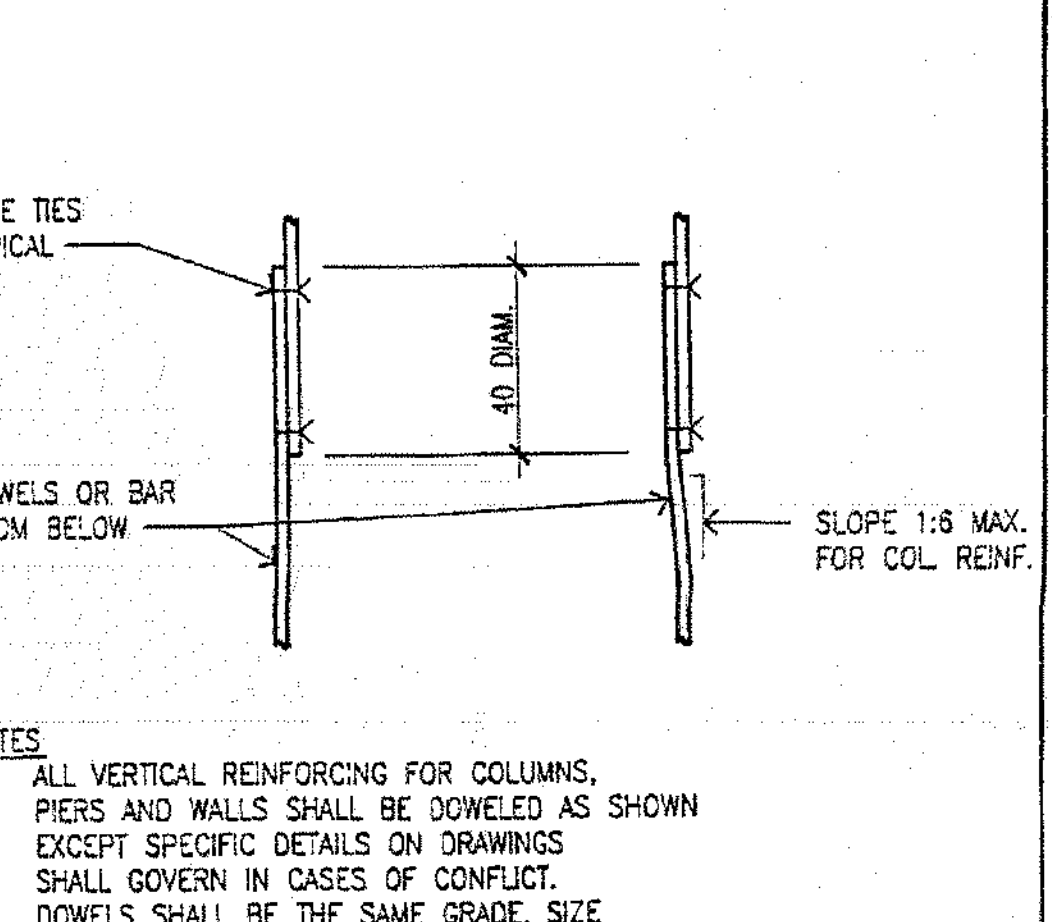


**BOLT EMBEDMENT SCHEDULE** ⑨

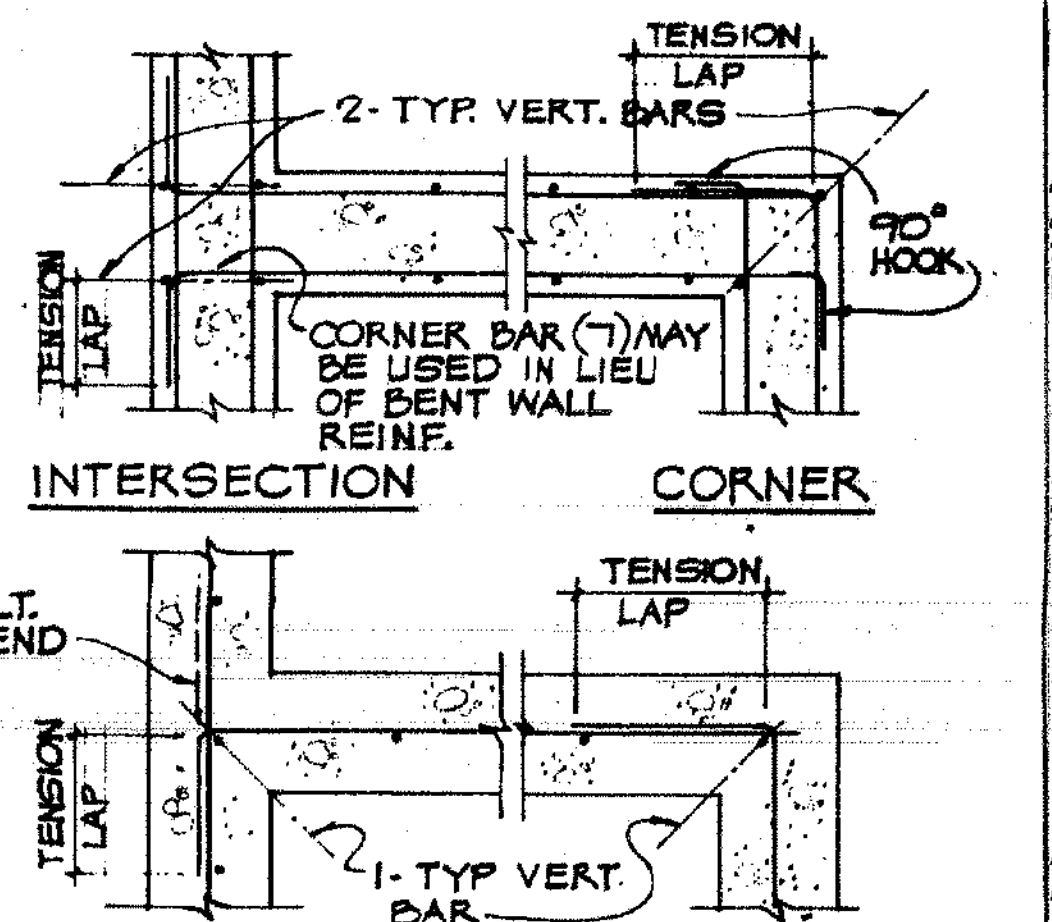
CONC. f'c	BAR SIZE										
	3	4	5	6	7	8	9	10	11		
2500	21	23	36	50	69	91	115	145	175		
3000	21	23	36	46	63	82	104	132	163		
4000	21	23	36	50	69	91	115	145	175		

WELD SPLICE

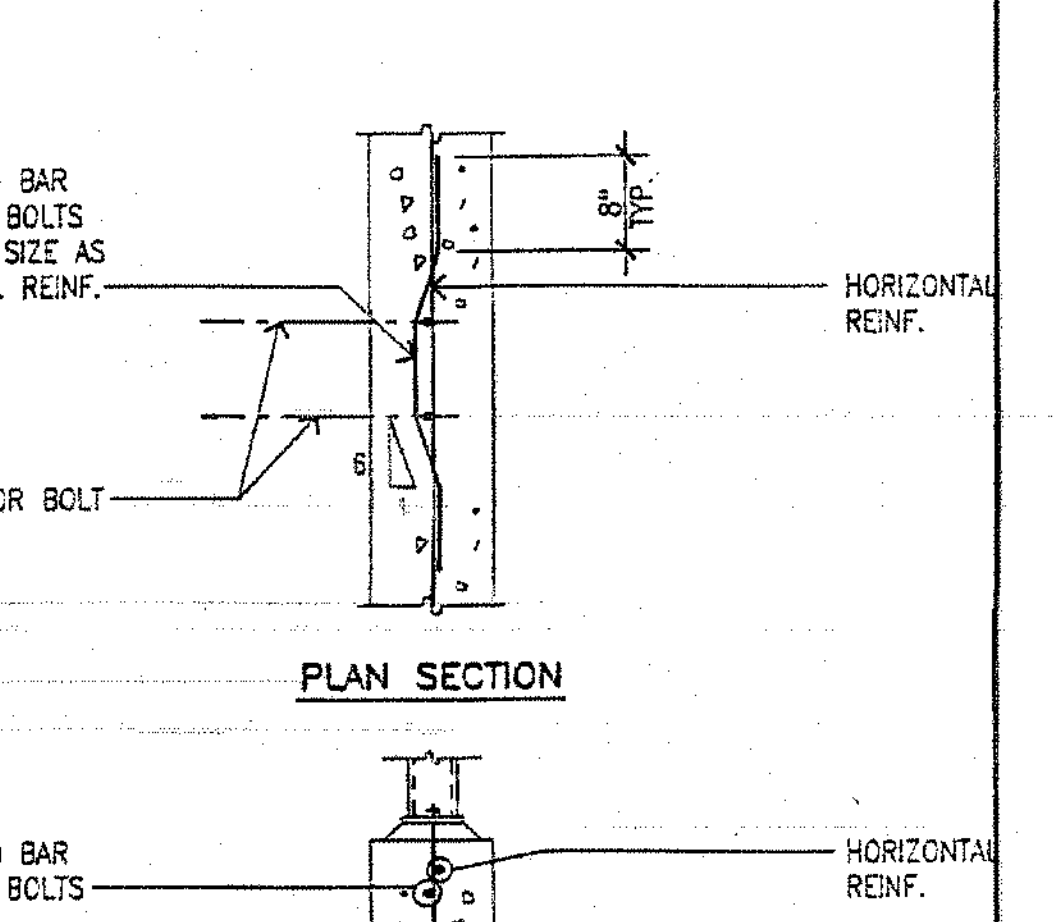
**HORIZONTAL REINF. TENSION LAP SPLICE** ⑩



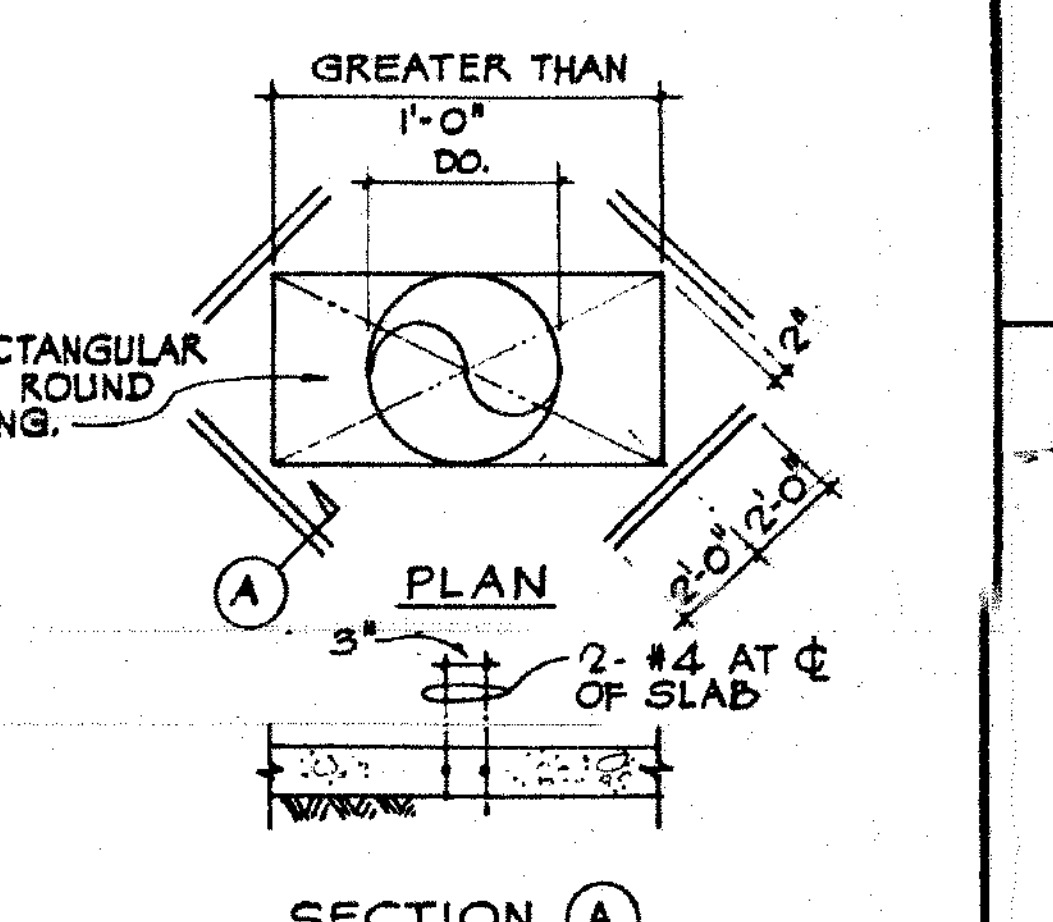
**VERTICAL REINF. LAP SPLICE** ⑪



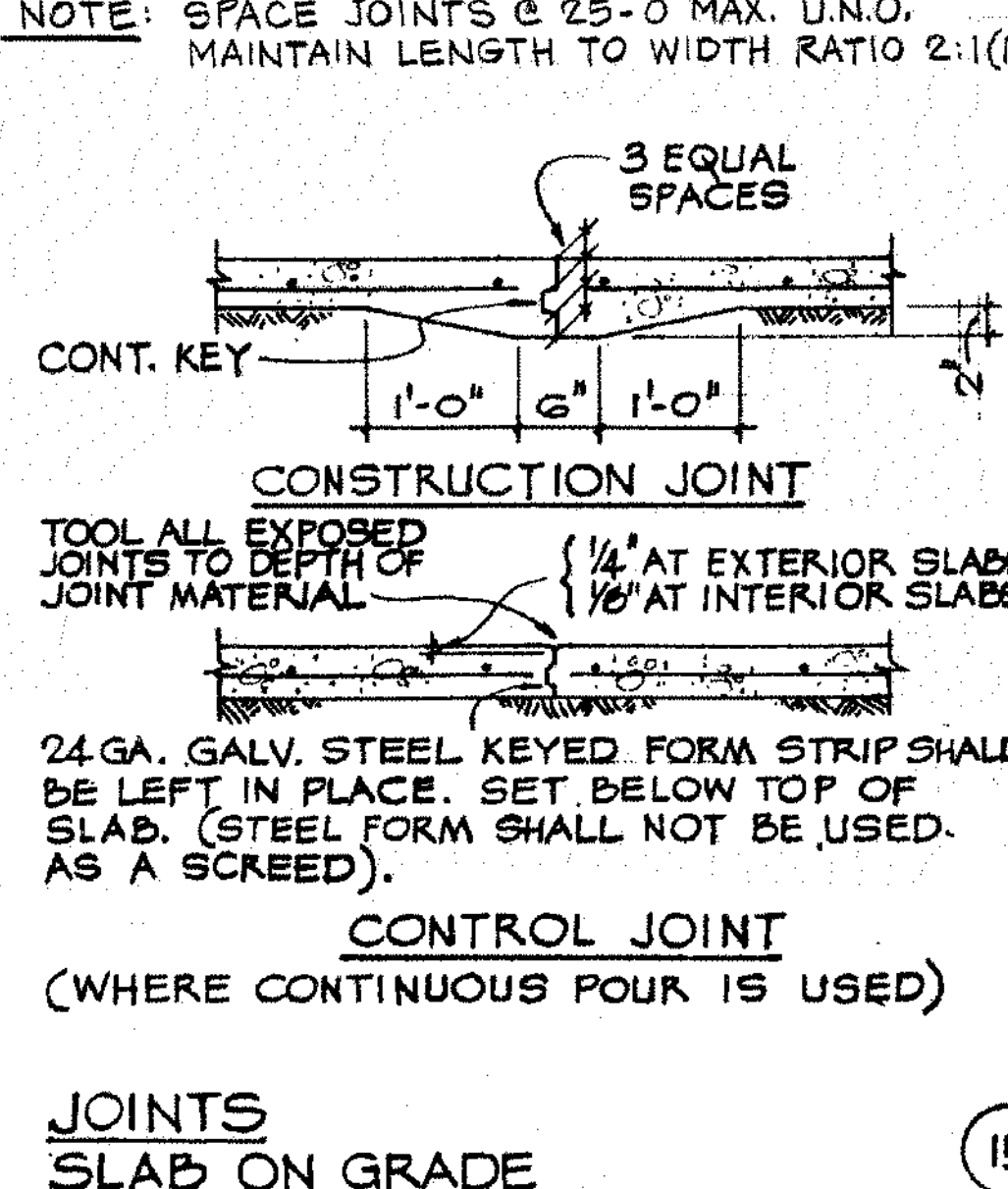
**REINFORCING AT FOUND. WALL & WALL INTERSECTIONS** ⑫



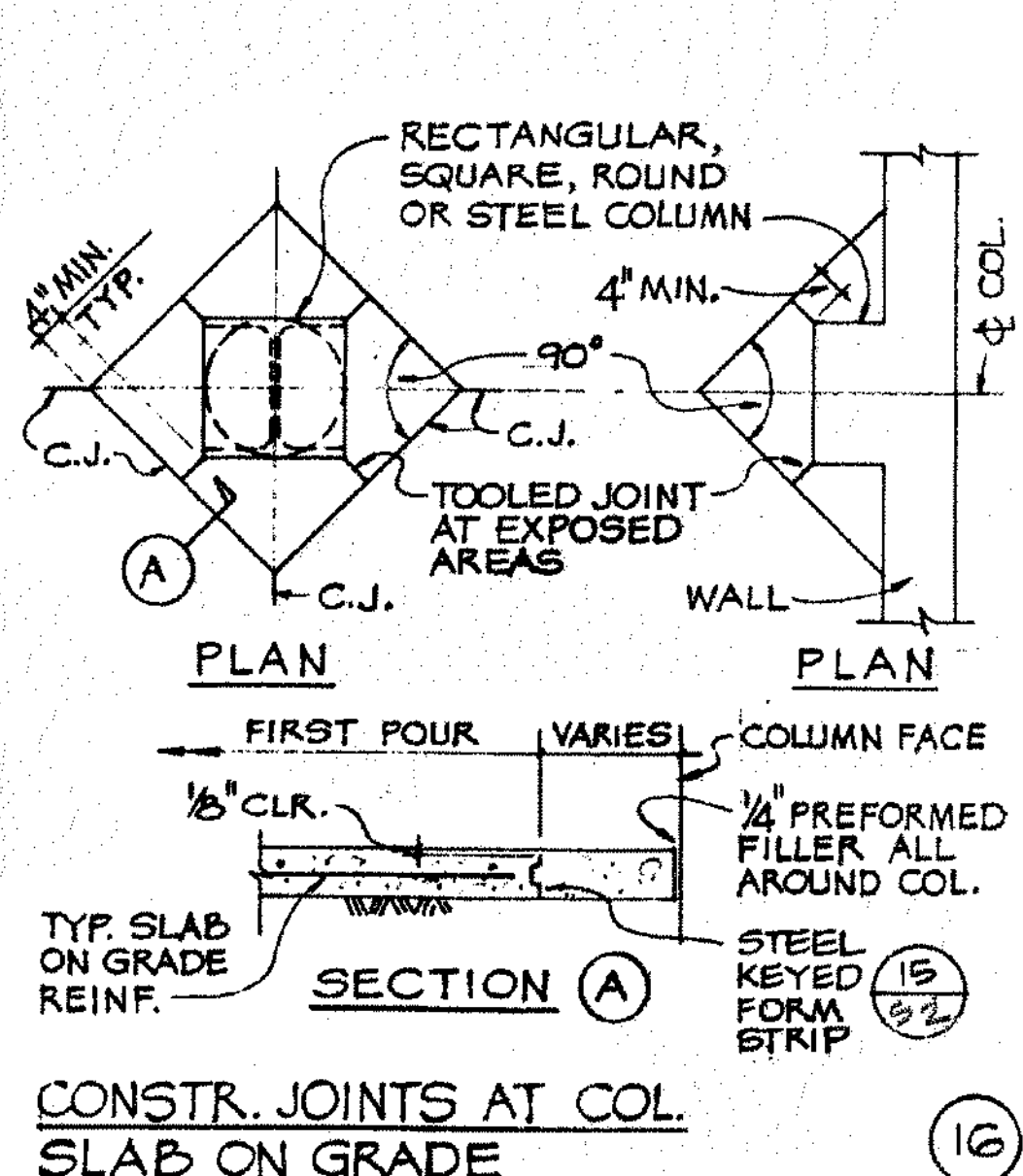
**ADDED REBAR AT COLUMN ANCHORAGE** ⑬



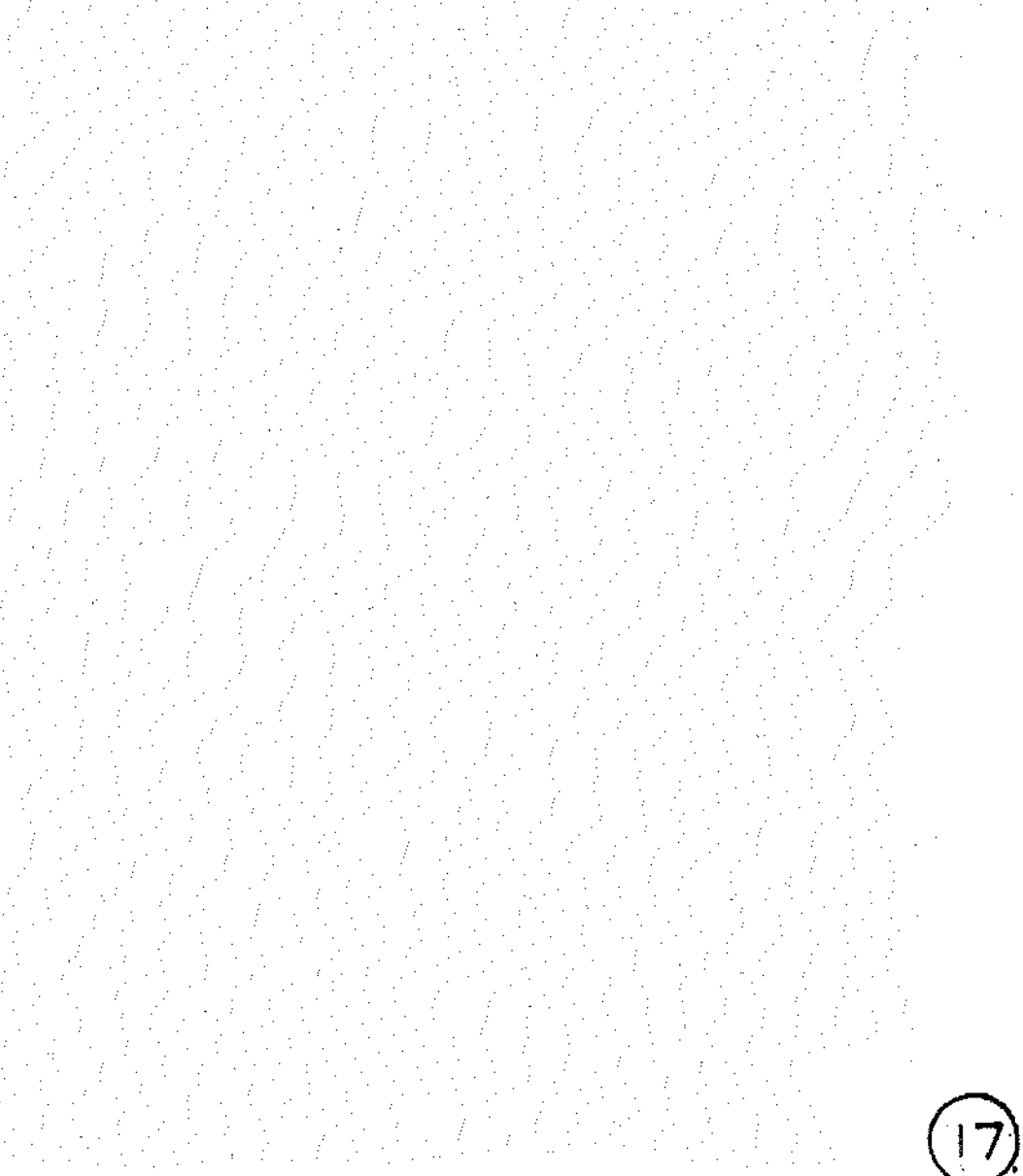
**OPENING OR DEPRESSION SLAB ON GRADE** ⑭



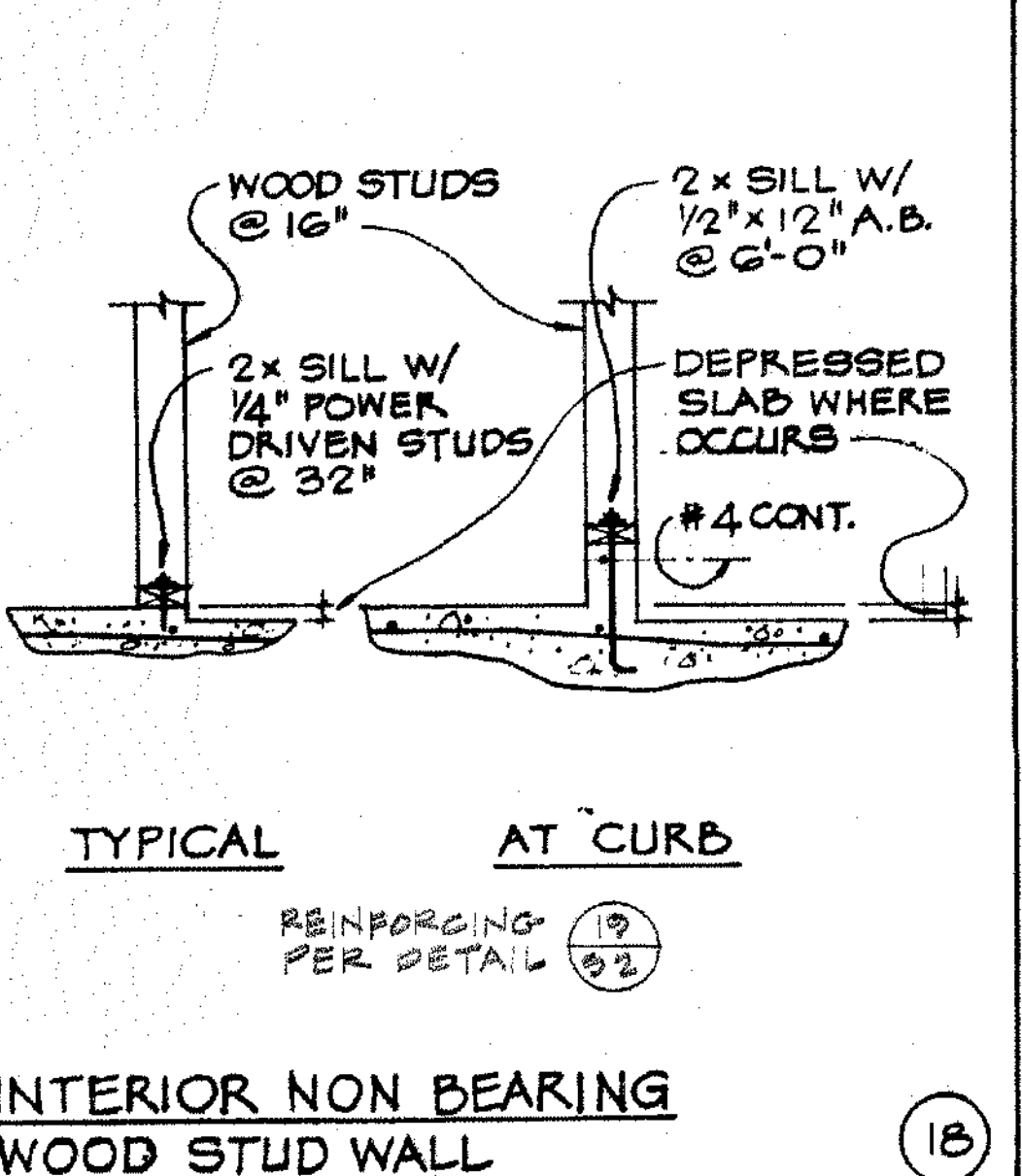
**JOINTS SLAB ON GRADE** ⑮



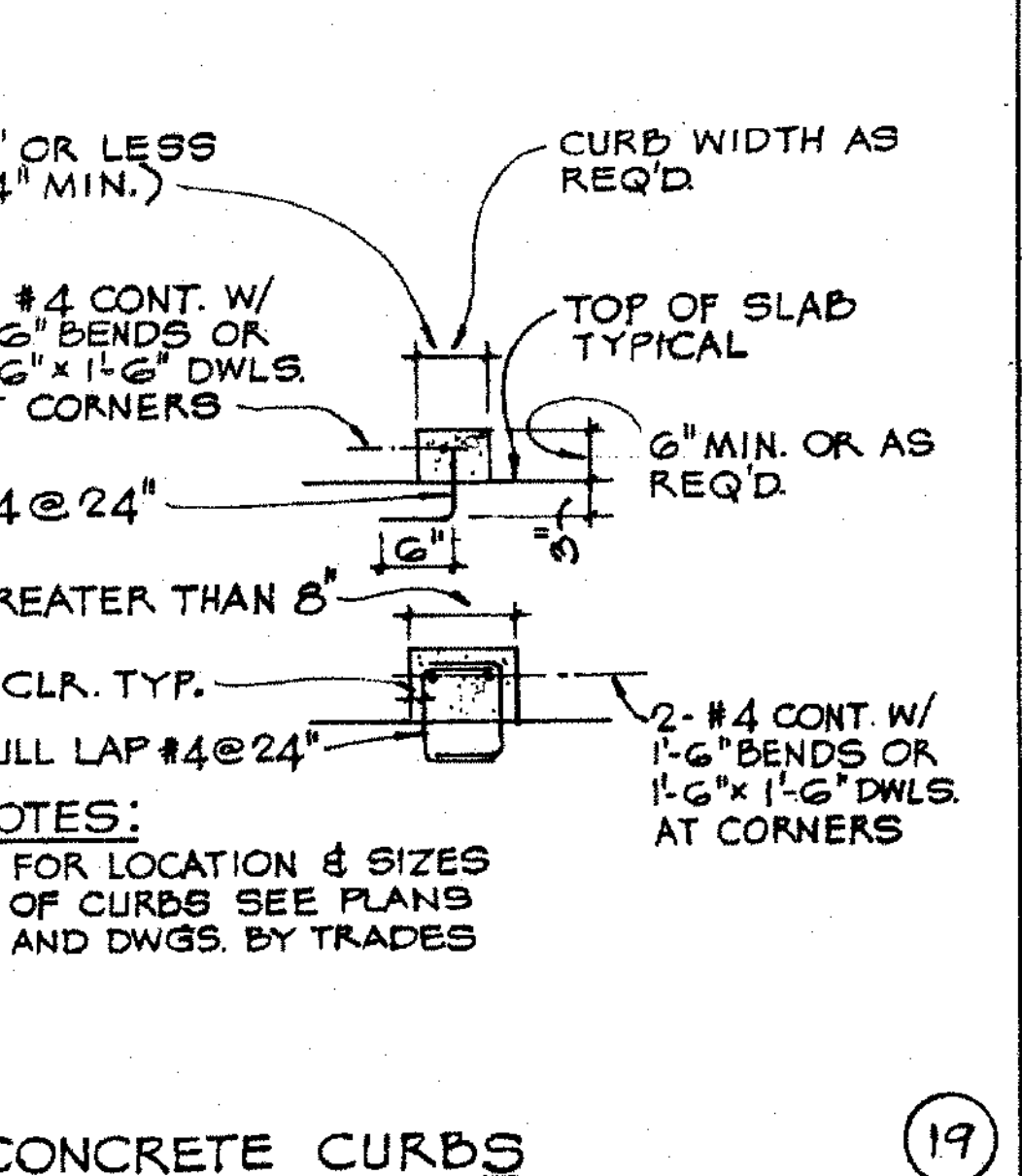
**CONSTR. JOINTS AT COL. SLAB ON GRADE** ⑯



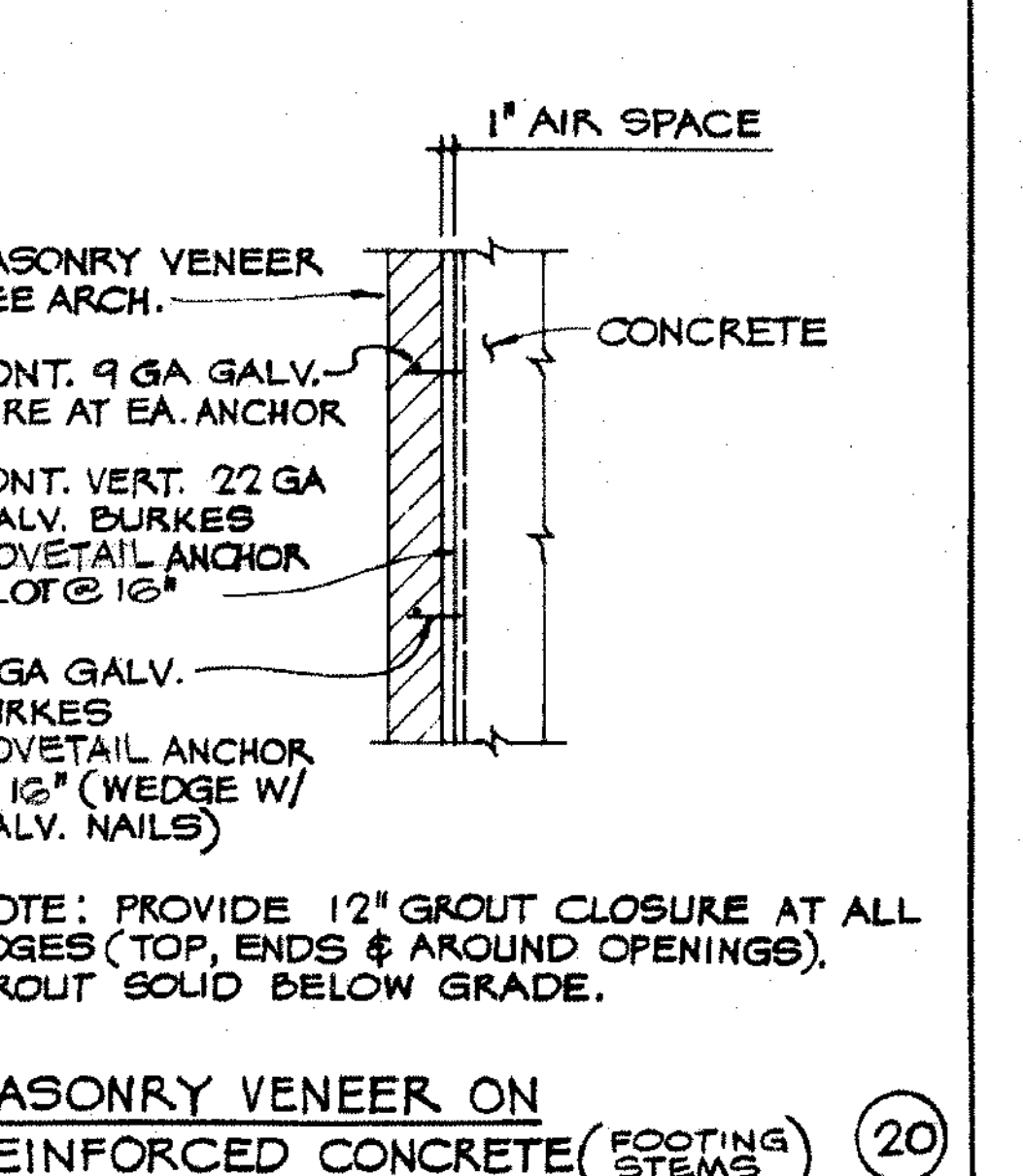
**INTERIOR NON BEARING WOOD STUD WALL** ⑰



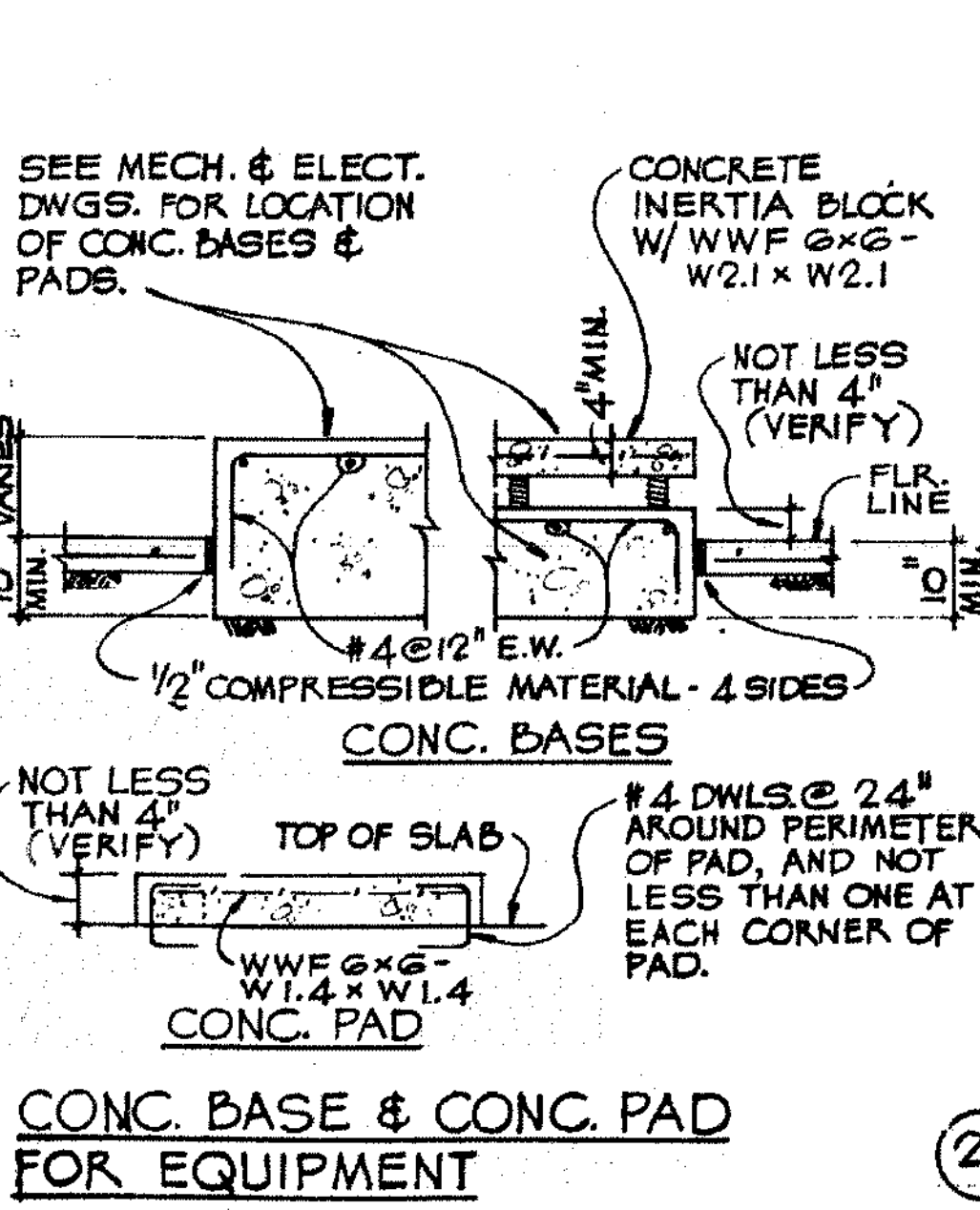
**CONCRETE CURBS** ⑱



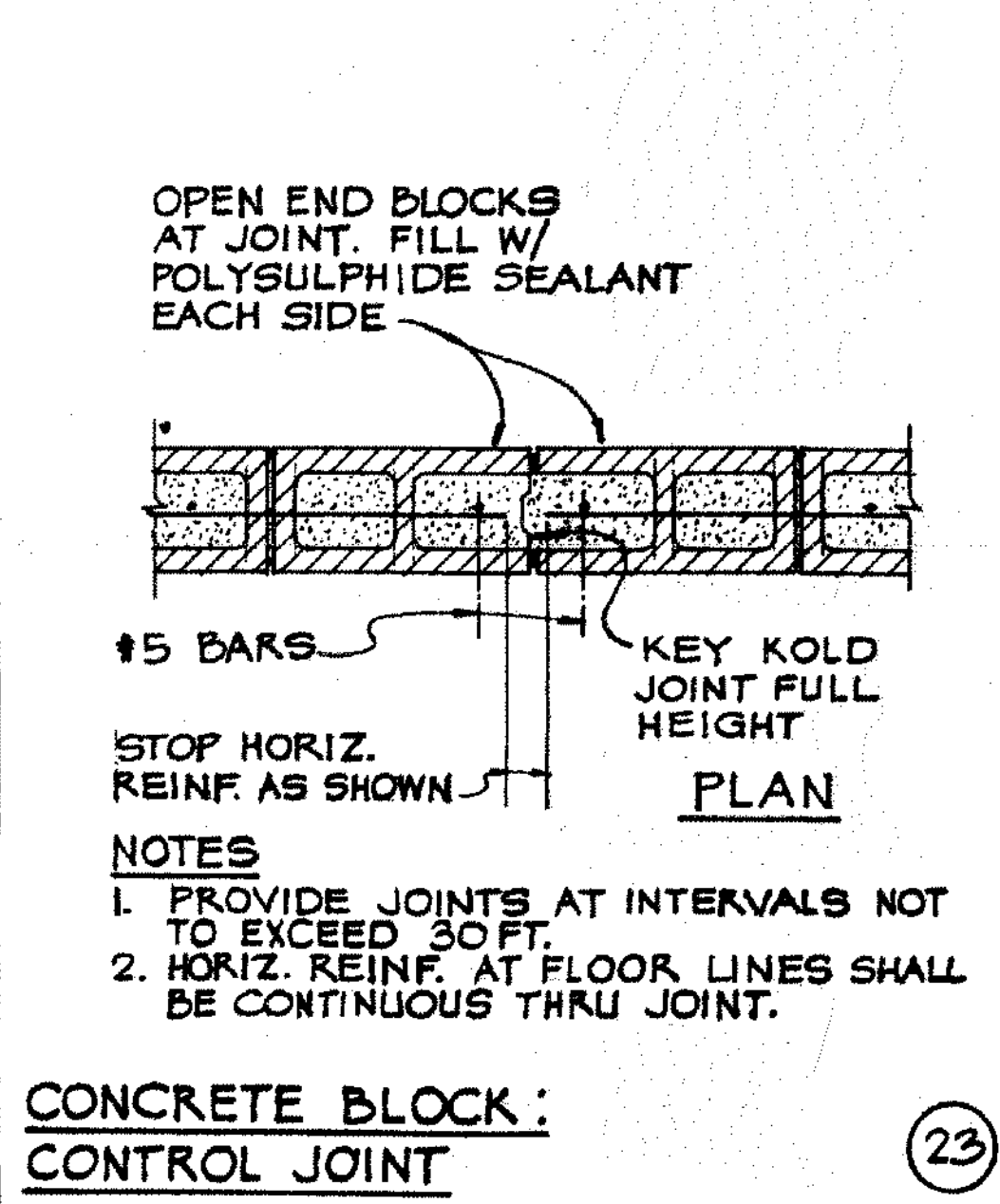
**MASONRY VENEER ON REINFORCED CONCRETE (STEMS)** ⑳



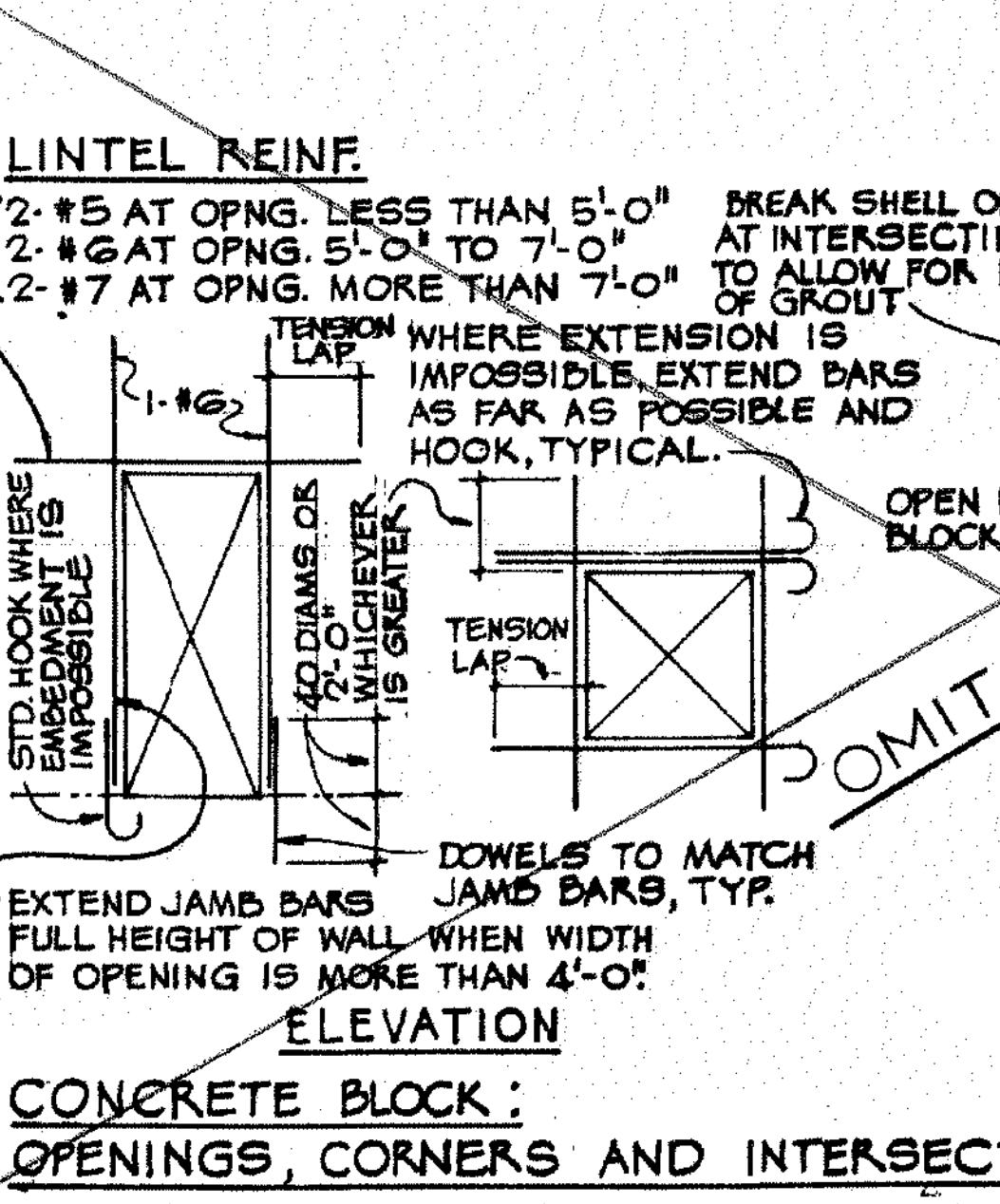
**MASONRY VENEER ON WOOD STUDS** ㉑



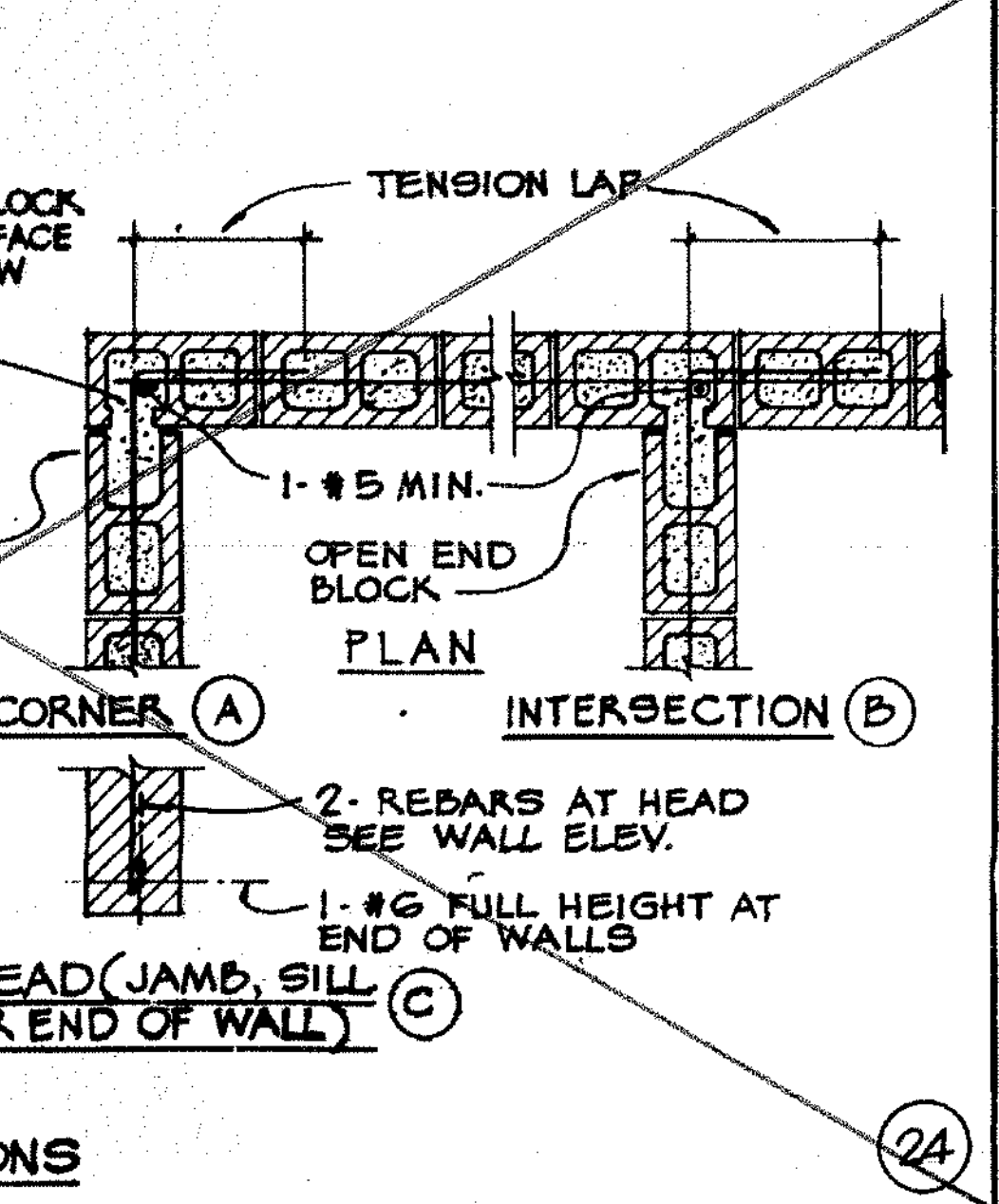
**CONC. BASE & CONC. PAD FOR EQUIPMENT** ㉒



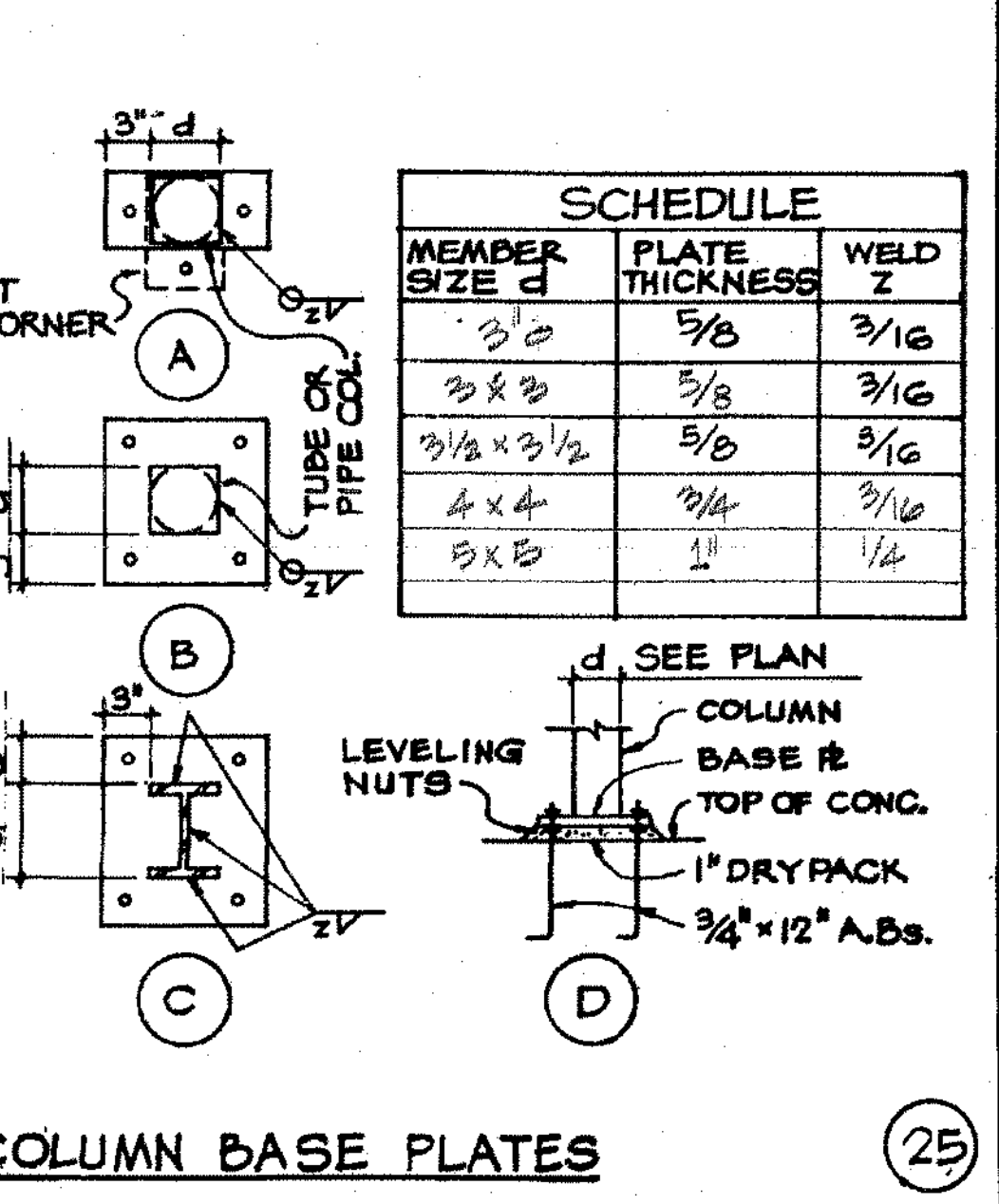
**CONCRETE BLOCK: CONTROL JOINT** ㉓



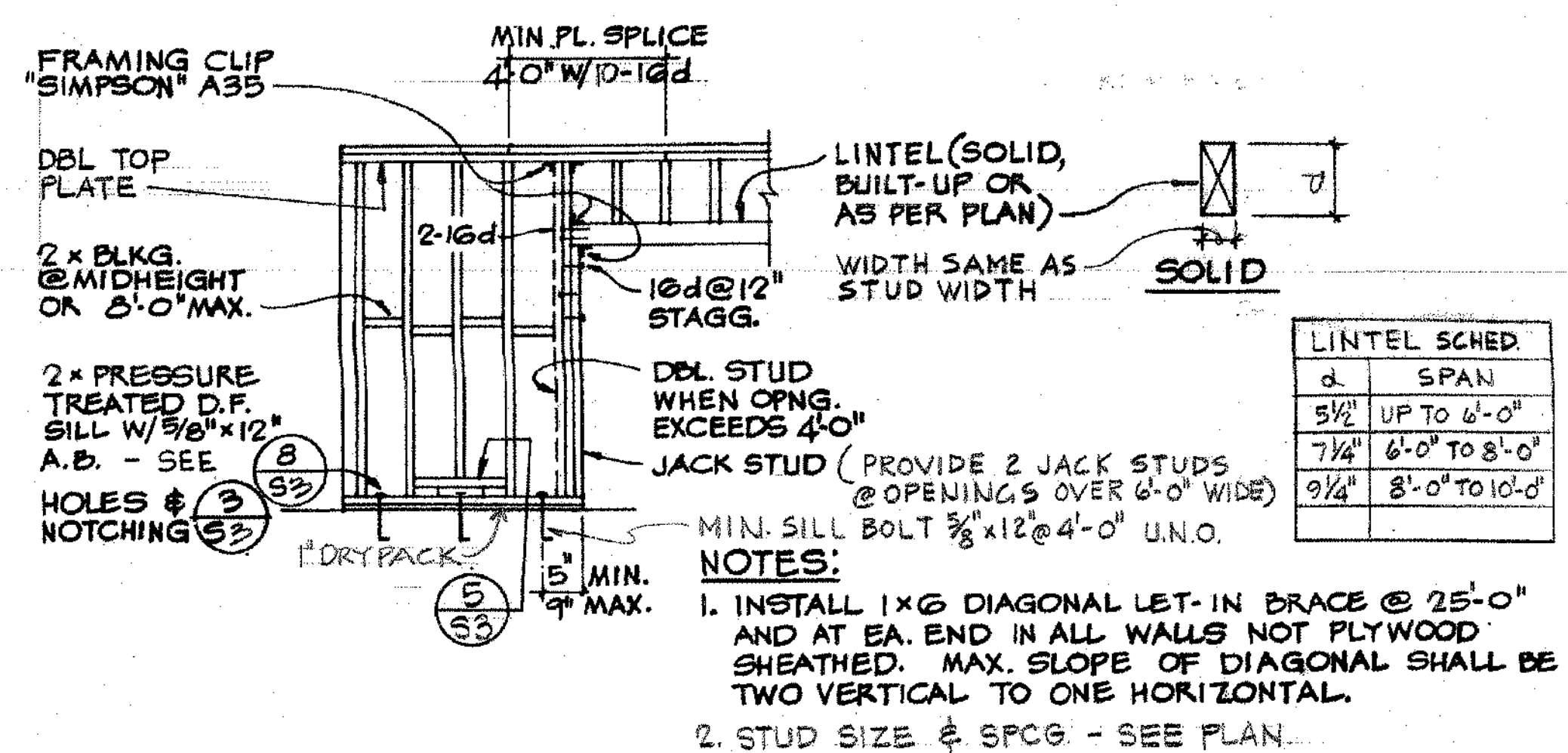
**CONCRETE BLOCK: OPENINGS, CORNERS AND INTERSECTIONS** ㉔



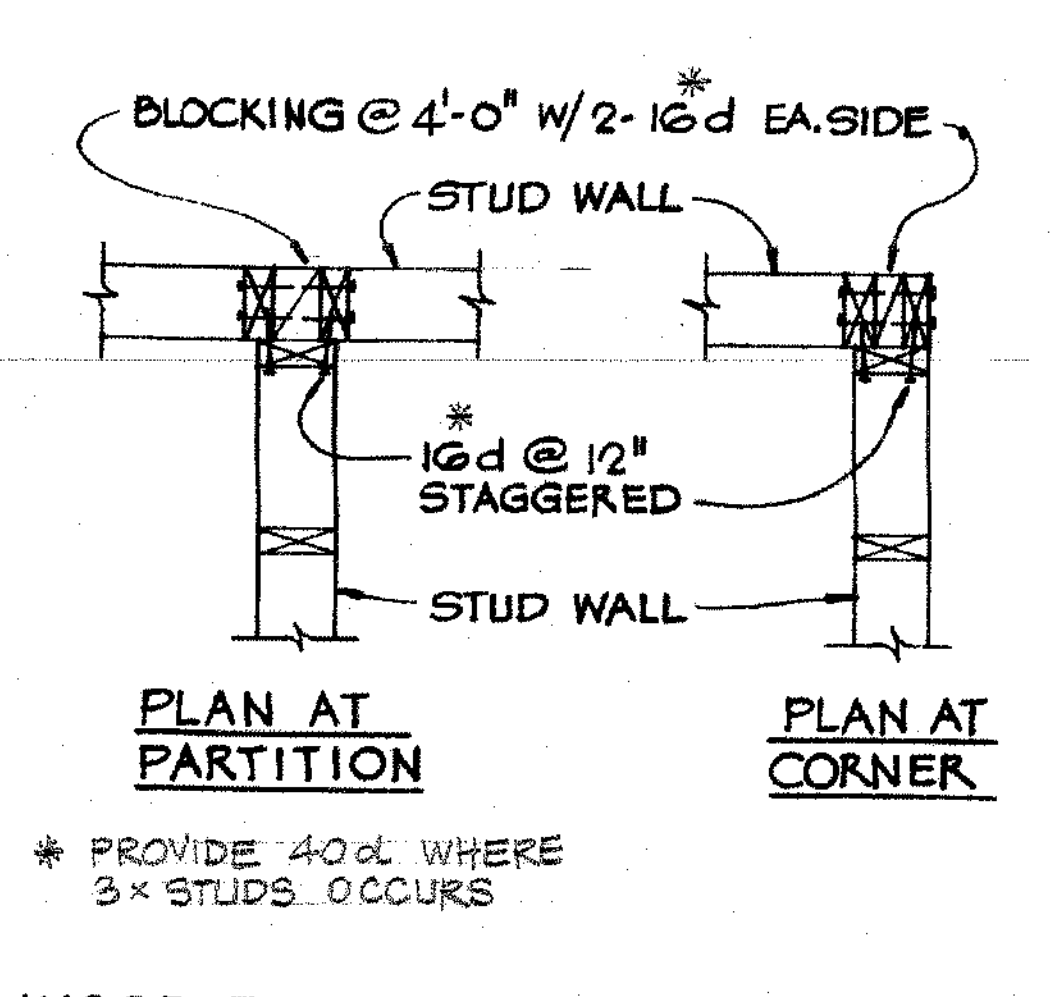
**COLUMN BASE PLATES** ㉕



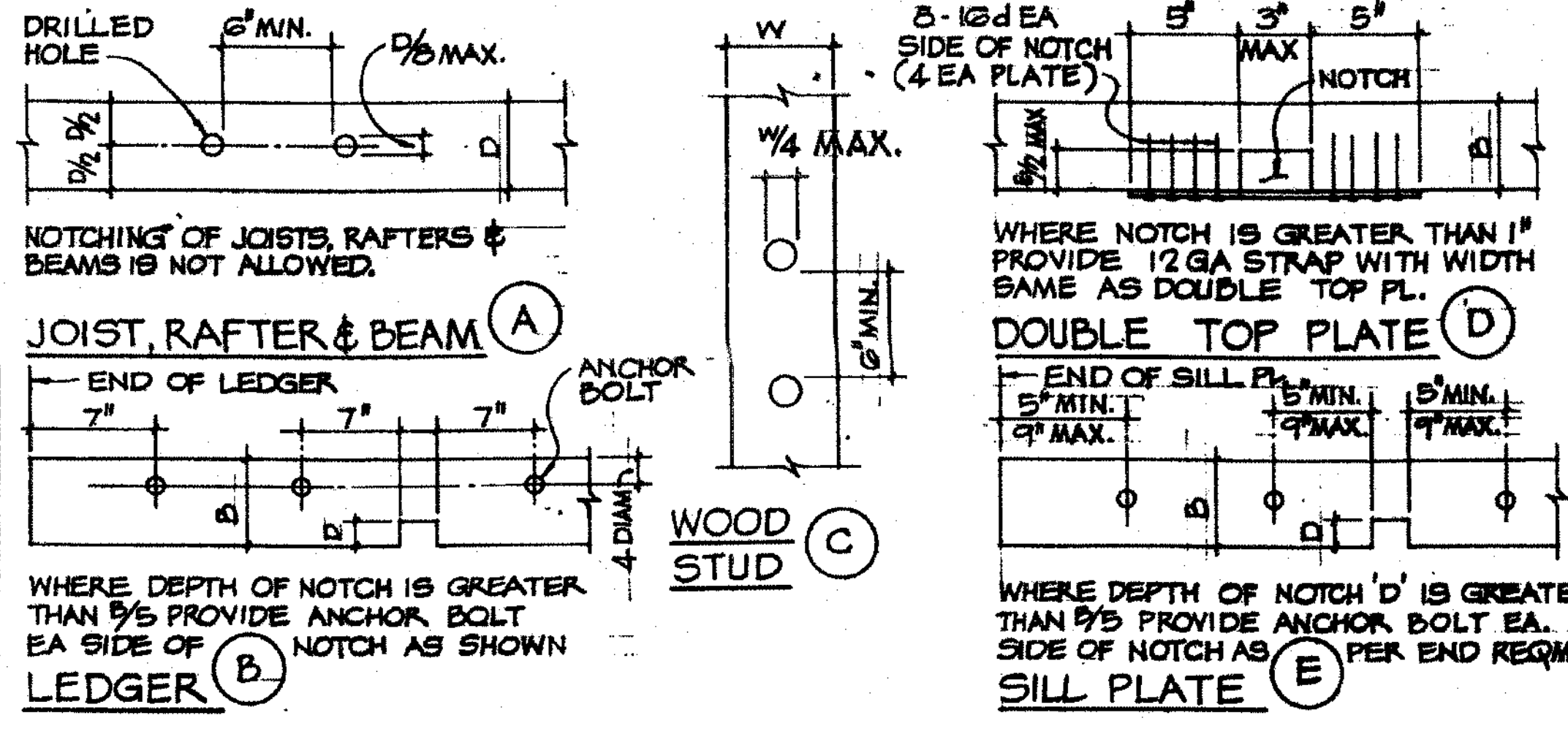
**MASONRY VENEER SUPPORT: TUBE FRAME AT OPENING IN WOOD STUD WALL** ㉖



STUD WALL FRAMING ①



WOOD FRAMING: WALL INTERSECTIONS U.N.O. ②



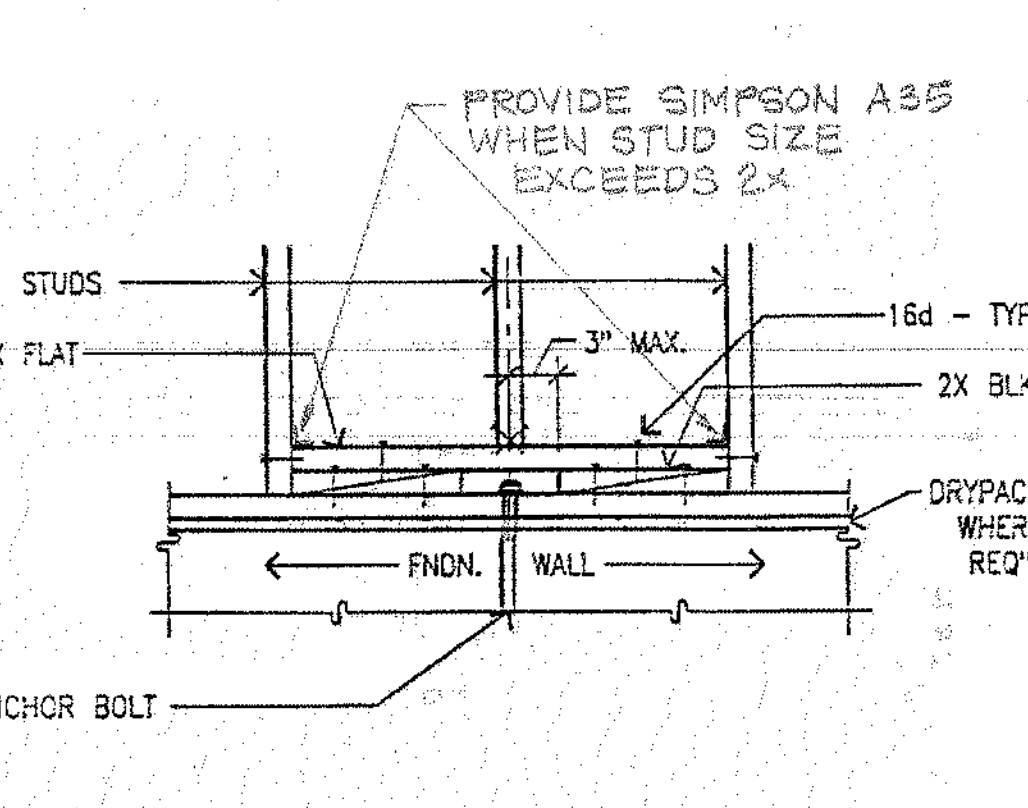
WOOD FRAMING: HOLES & NOTCHING ③

THIS NAILING IS TYPICAL UNLESS NOTED OR DETAILED OTHERWISE. ALL NAILS SHALL BE COMMON WIRE NAILS. DRILL HOLES FOR 20d NAILS & LARGER, AND AS REQUIRED TO PREVENT SPLITTING.

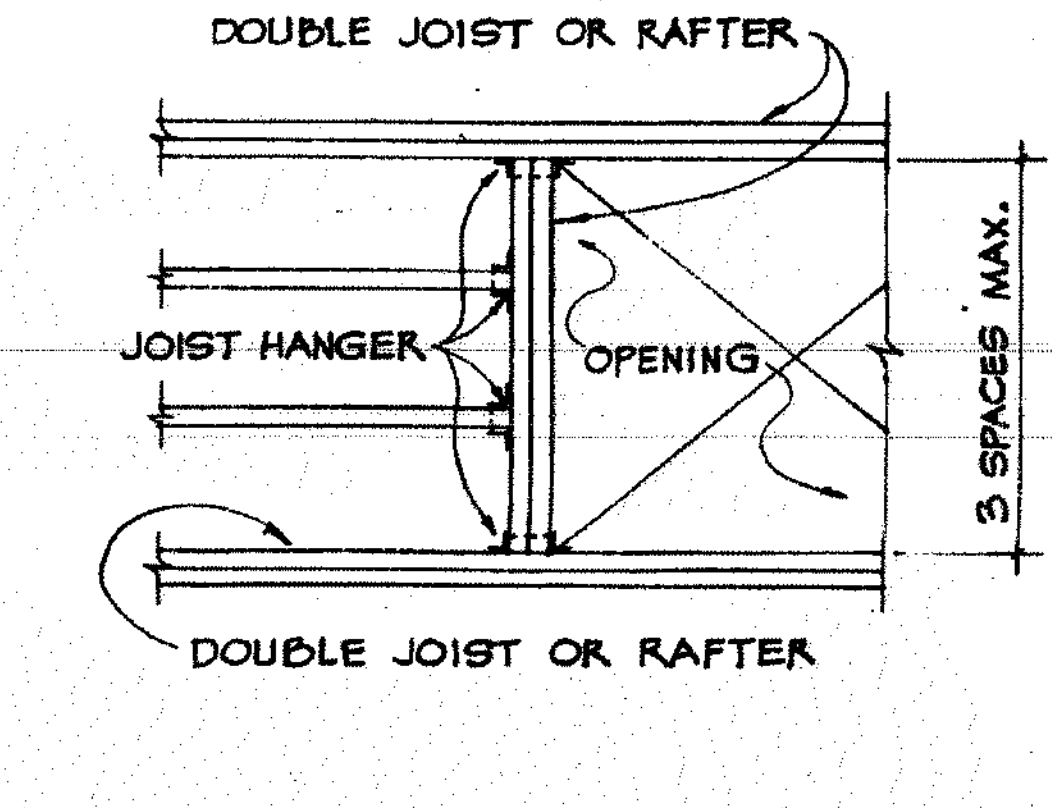
JOISTS OR RAFTERS TO SIDES OF STUDS - 8" DEPTH OR LESS 3-16d  
FOR EA. ADDITIONAL 4" IN DEPTH 1-16d  
BUTT IN TOP PL. 6-16d  
UPPER PL. TO TOP OF STUD 2-20d  
UPPER PL. TO LOWER PL. SPLICE (4'-0" MIN.) EA. SIDE OF 10d @ 16"  
UPPER PL. TO LOWER PL. AT INTERSECTIONS 3-16d  
CLG. JOISTS - LAP OVER PARTITIONS 3-16d  
CLG. JOISTS TO PARALLEL RAFTERS 3-16d  
CLG. STIPS (FURRING) - 1x4 PER BRG (STRONGHOLD TYPES) 2-8d  
2x3 PER BRG (STRONGHOLD TYPES) 1-16d  
BUILT-UP BEAMS - 10" OR LESS IN DEPTH (STAGGER) 10d @ 12"  
MORE THAN 10" DEEP (STAGGER) 1/2" BOLTS @ 24"  
1x6 LET-IN BRACE PER BRG 2-8d

PLYWOOD NAILING - REFER TO PLANS

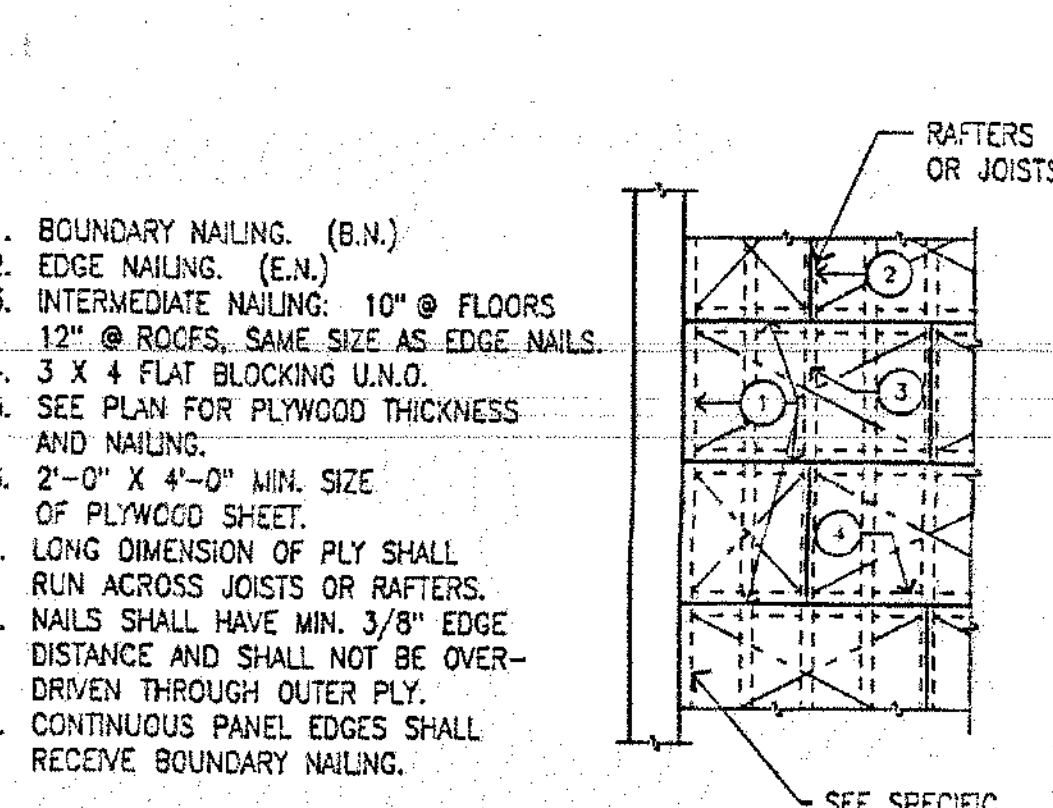
NAILING SCHEDULE ④



WOOD FRAMING: WHERE ANCHOR BOLT INTERRUPTS NORMAL STUD PLACEMENT ⑤



OPENING IN HORIZONTAL WOOD FRAMING ⑥



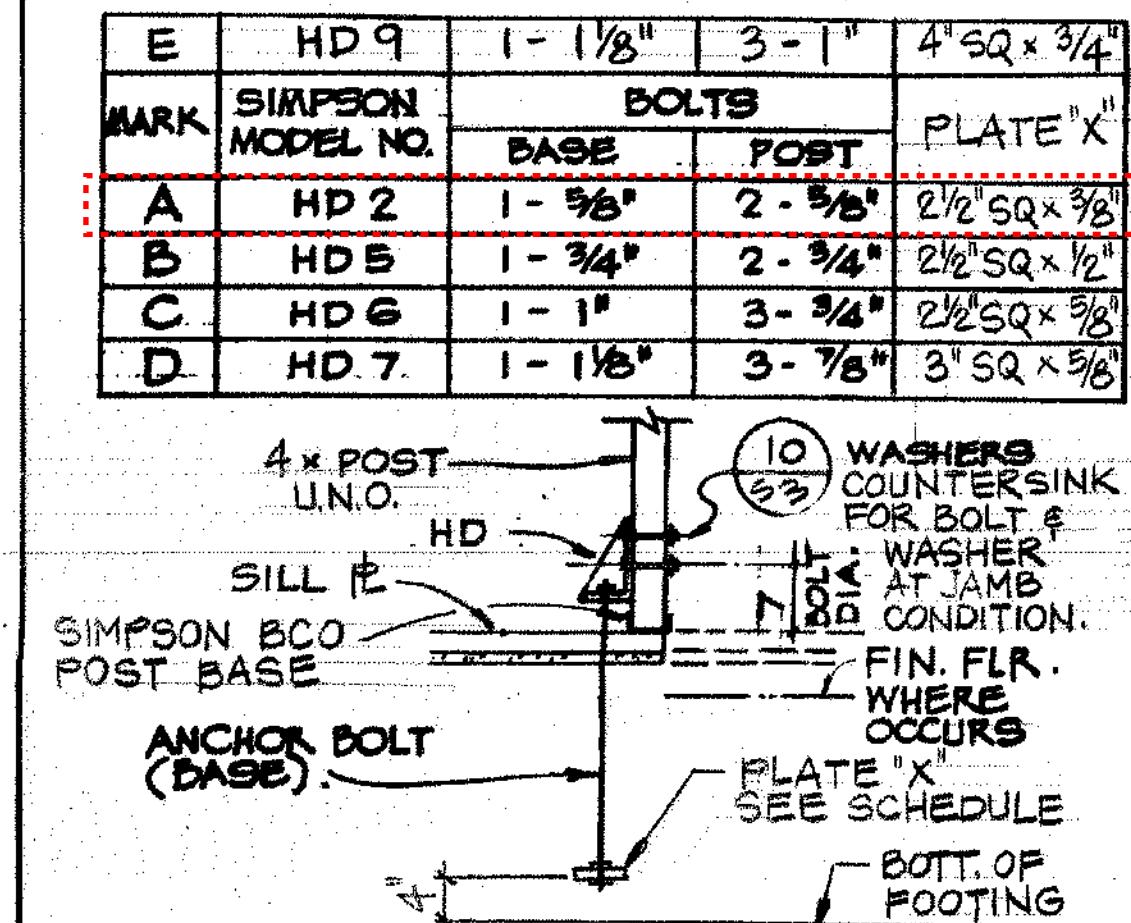
HORIZ. PLYWOOD SHEATHING ⑦

SHEATHED WALL SCHEDULE

MARK	THICKNESS	B.N.	E.N.	SILL BOLTS
①	1/2"	10d @ 6"	10d @ 6"	3 @ 4'-0"
②	1/2"	10d @ 4"	10d @ 4"	3 @ 6'-0"
③	1/2"	10d @ 2"	10d @ 4"	3 @ 6'-0"
④	1/2" BOTH SIDES WALL	10d @ 4"	10d @ 4"	3 @ 6'-0"

ADD'L NOTES:  
① PROVIDE MIN. 3x STUD, SILL & BLKG. AT ALL PLYWOOD EDGES FOR ② & ④.  
② PLYWOOD SHALL BE PROVIDED ABOVE & BELOW OPENINGS IN A SHEATHED WALL LINE. TYP. PROVIDE BLOCKING AT EDGES & USE EDGE NAILING AROUND PERIMETER.

SHEATHED SHEAR WALLS (O.S.A.) ⑧

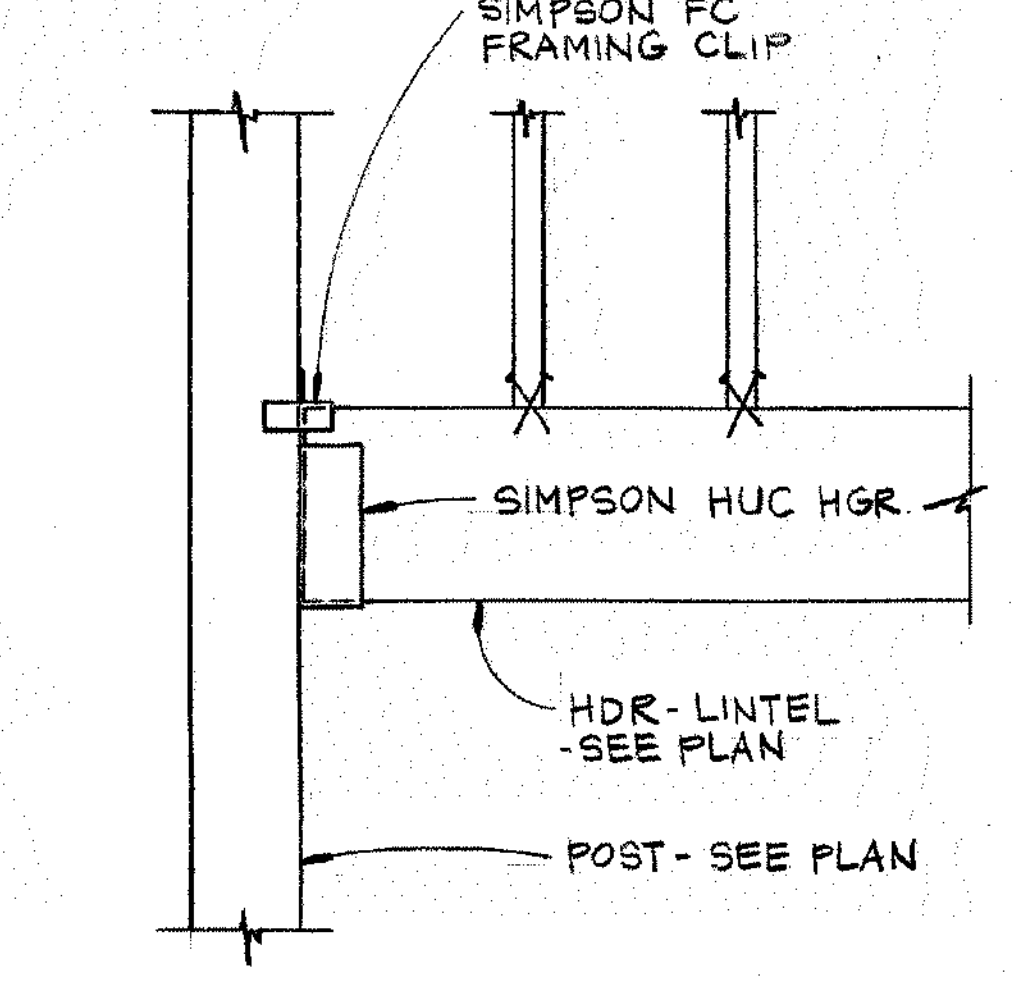


WOOD FRAMING: HOLD DOWN ANCHOR ⑨

BOLT DIA.	MALLEABLE IRON WASHER	STEEL PLATE WASHER
1/2"	1/4 x 2 1/2 φ	1/4 x 2 x 2
3/4"	3/8 x 3 φ	3/8 x 3 x 3
7/8"	7/8 x 3 1/2 φ	7/8 x 3 1/2 x 3 1/2
1"	1/2 x 4 φ	7/8 x 4 x 4

NOTES:  
1. PROVIDE STD. CUT WASHERS UNDER ALL BOLT HEADS & NUTS BEARING ON WOOD EXCEPT PROVIDE MALLEABLE IRON OR STEEL PLATE WASHER AT LEDGER BOLTS & HOLD DOWN ANCHORS.

WOOD FRAMING: WASHER SCHEDULE ⑩



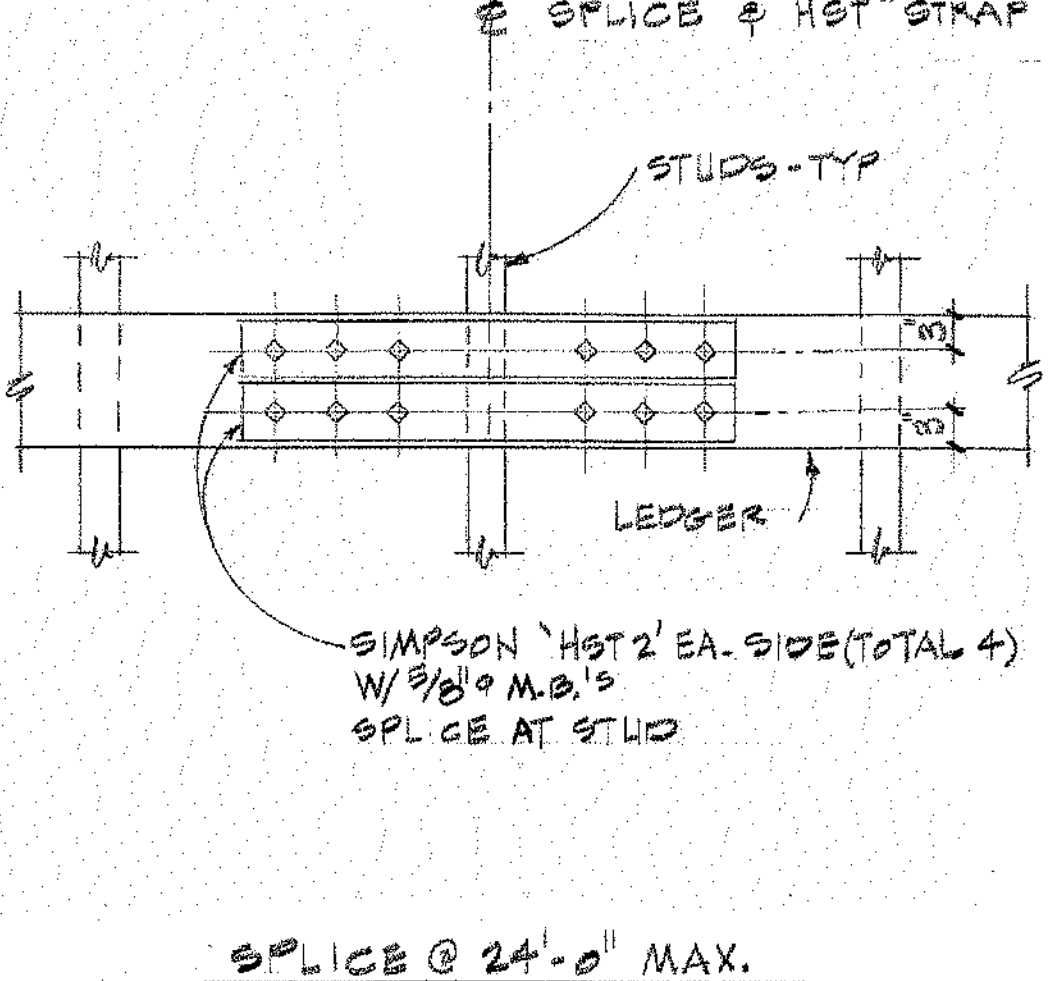
DOUBLE PLATE SPLICES

MARK	NO. OF 10d NAILS	MIN. "L"
A	12	4'-0"
B	18	6'-0"
C	24	8'-0"

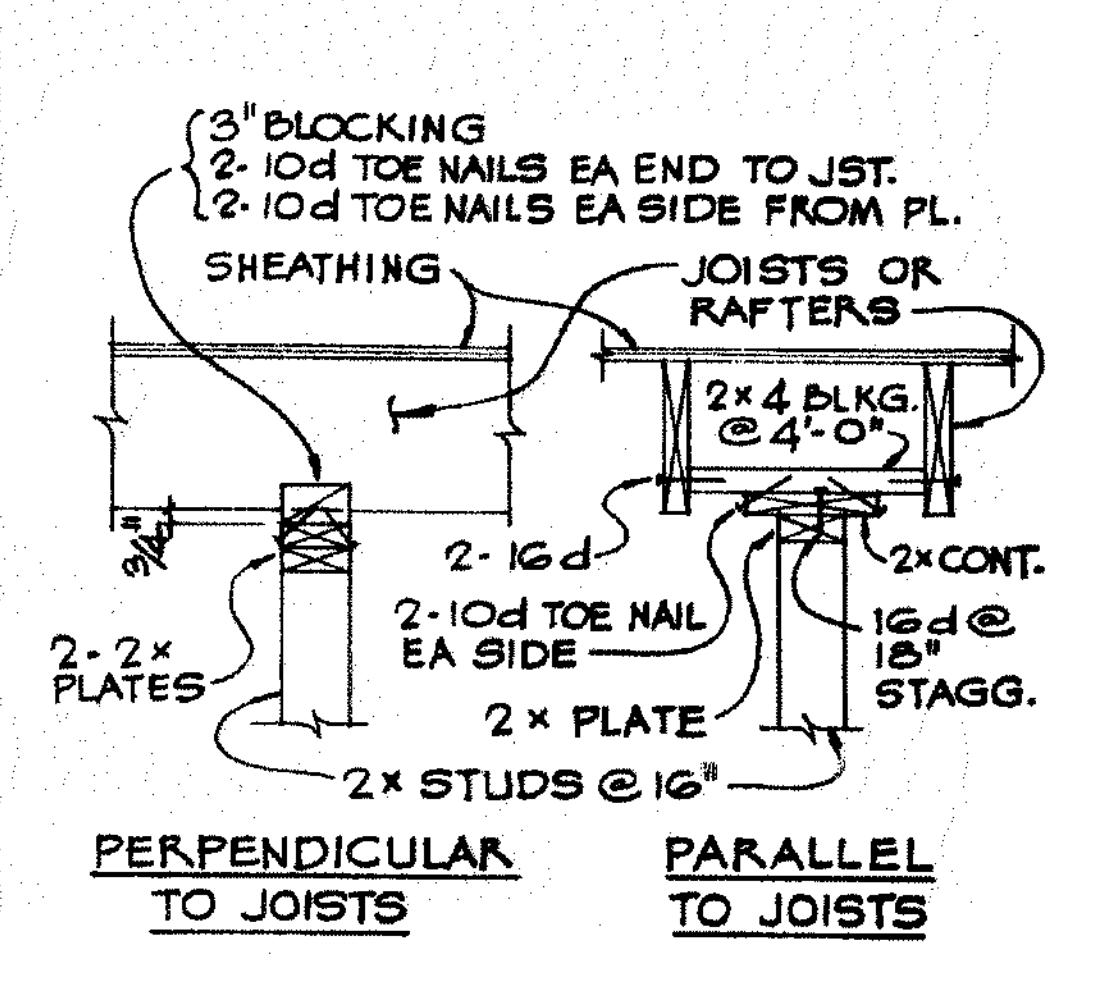
4x 1/4" φ @ 3/4" φ BOLTS  
DBL PLTS 2-2x MIN.  
MARK BOLT @ EA. SIDE SPLICE JOINT  
D 1-3/4"  
E 2-3/4"  
F 3-3/4"

PROVIDE 3x FLAT MIN. TOP PL. WHERE 10d NAIL REQUIRES TO BE DAPPED FOR BOLT HEAD OR NUT. 2x TO 3x MIN. W/ 10d @ 16" U.N.O.

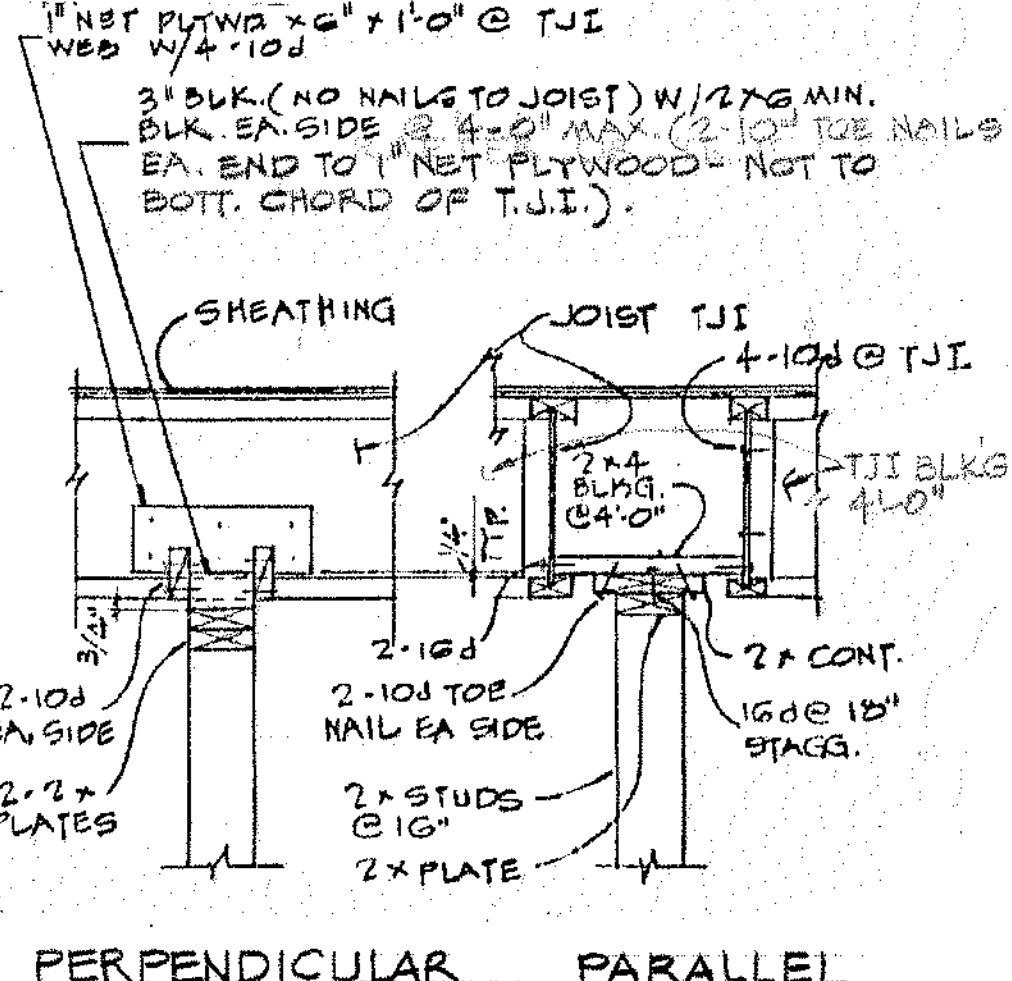
DOUBLE PLATE SPLICES ⑪



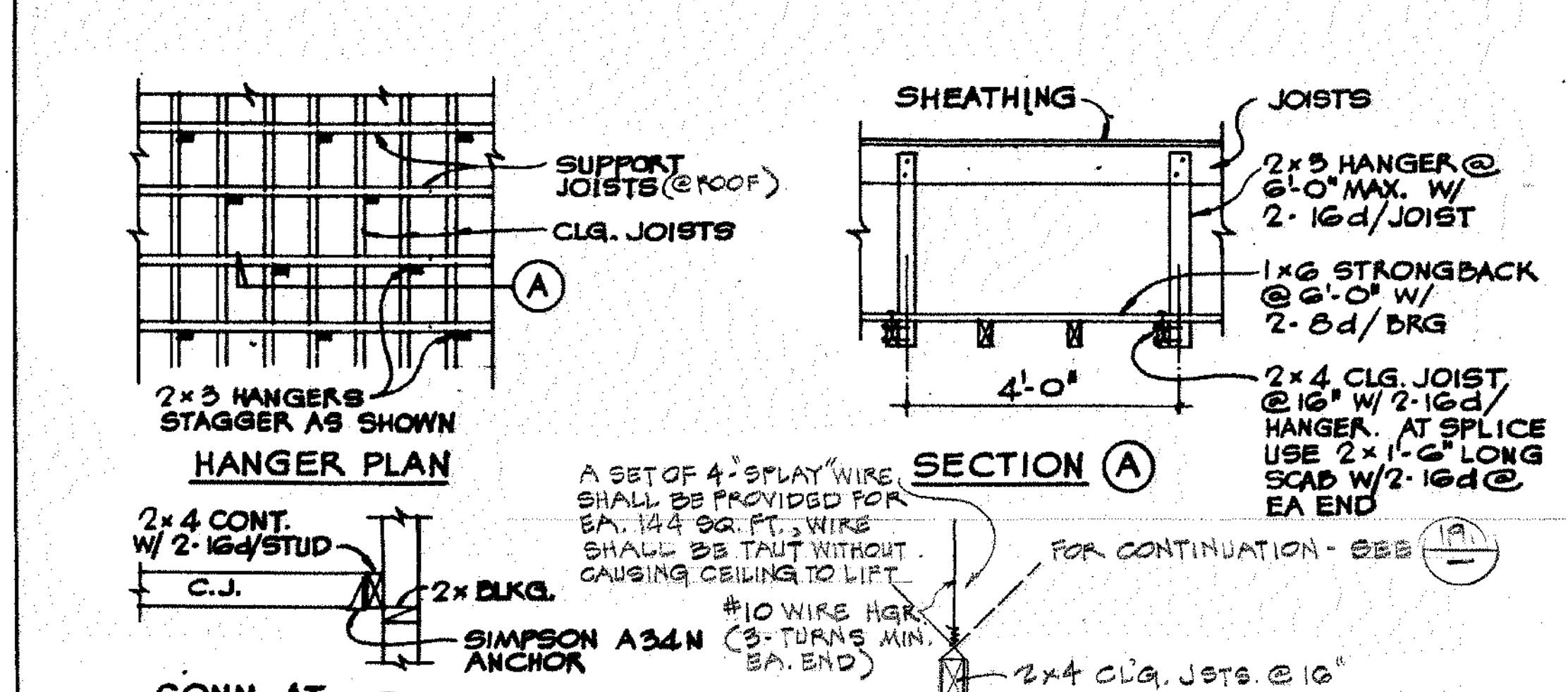
LEDGER SPLICE DETAIL ⑫



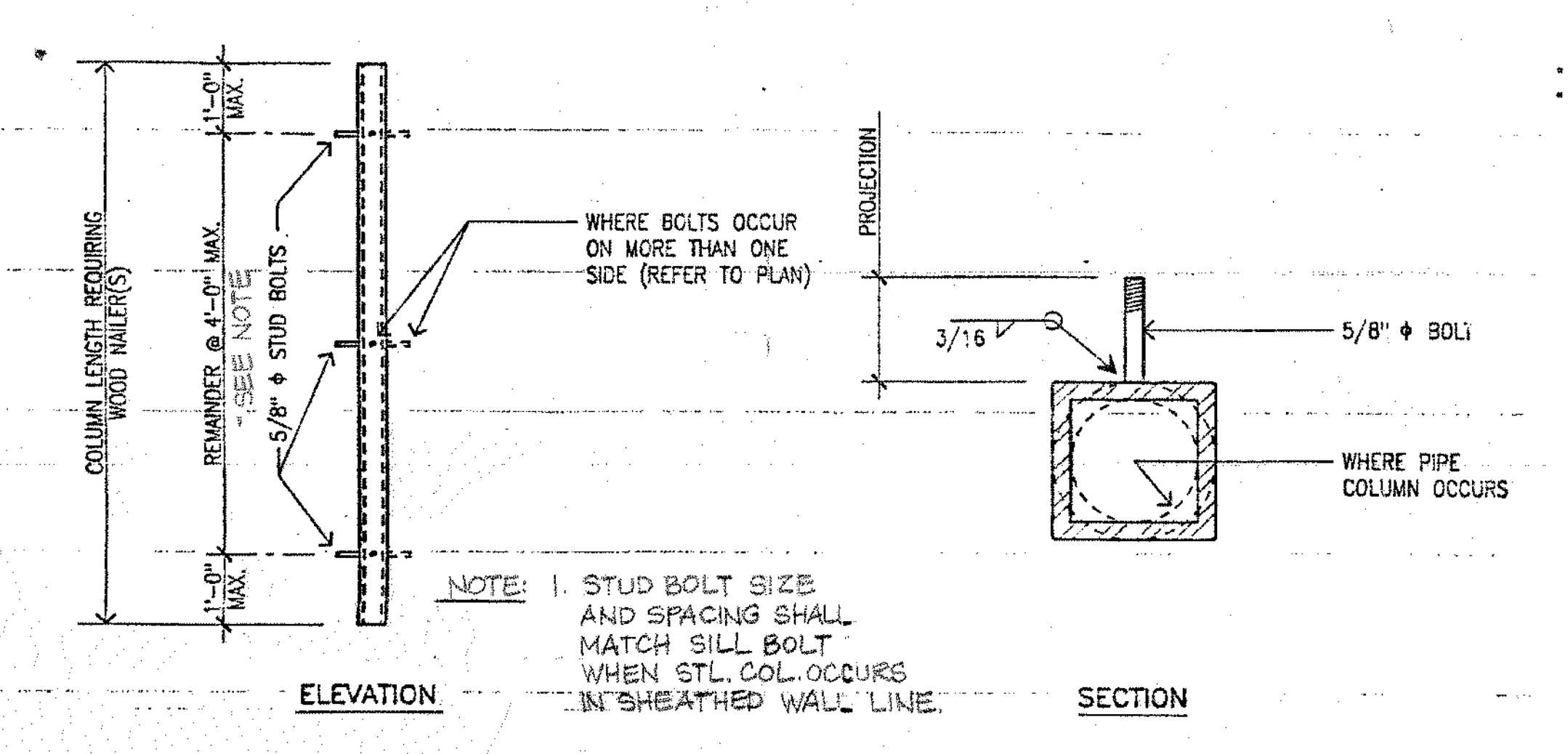
WOOD FRAMING: NON BEARING PARTITIONS ⑬



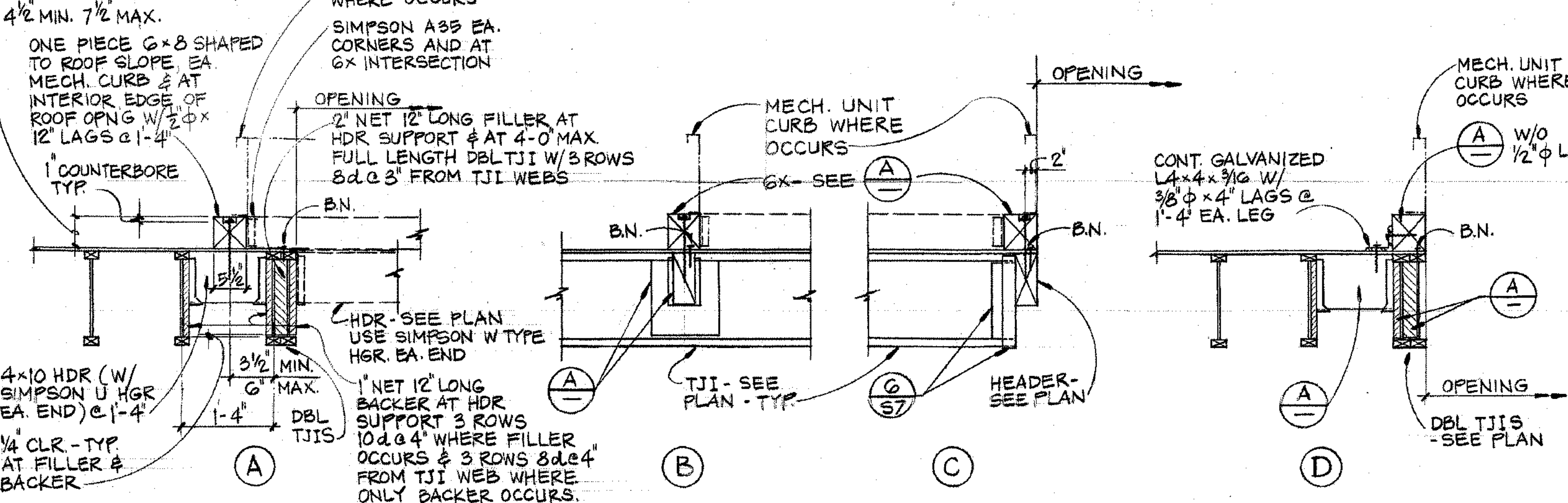
WOOD FRAMING: NON BEARING PARTITIONS ⑭



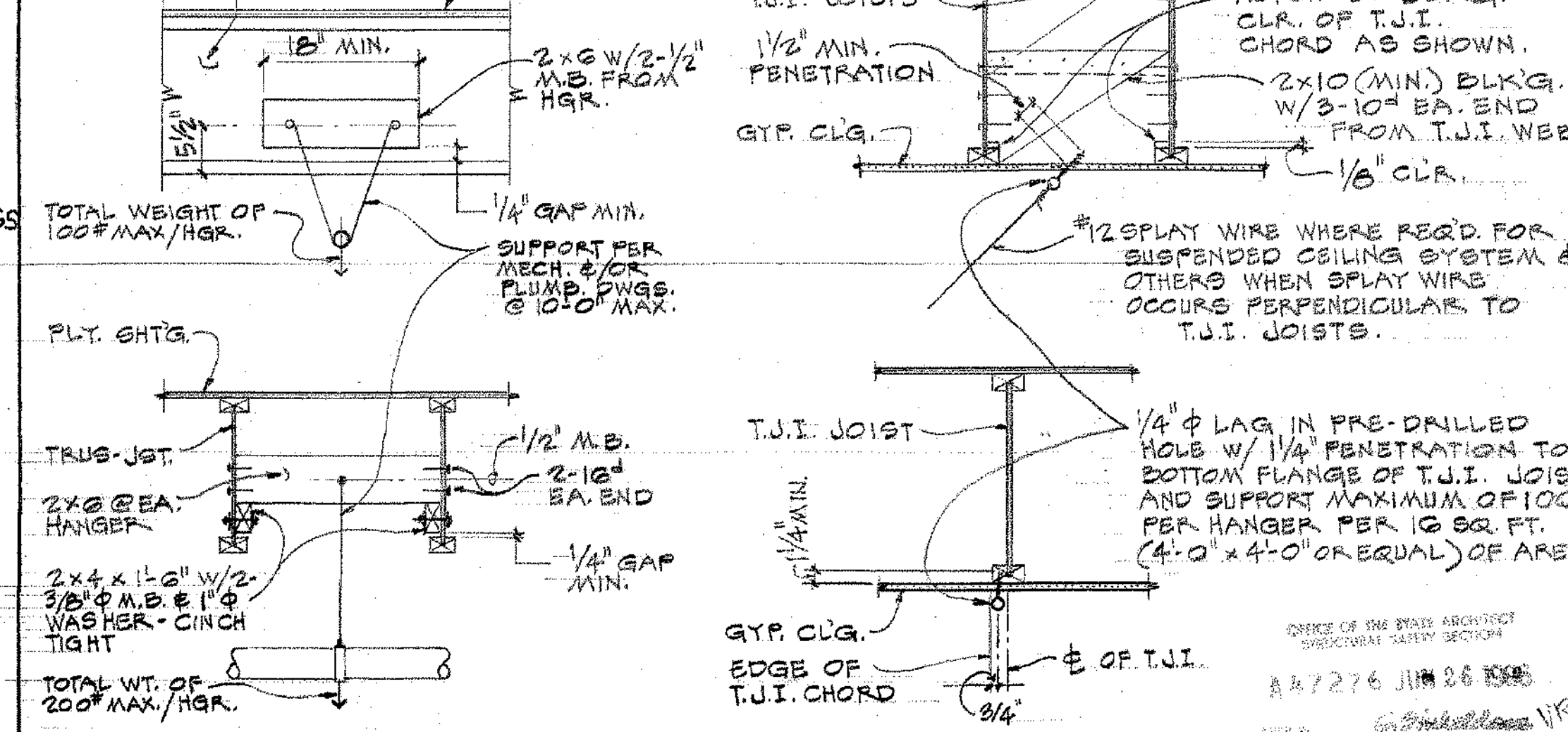
WOOD HANGERS FOR SUSPENDED CEILING ⑮



WOOD NAILER CONNECTION TO STEEL COLUMN ⑰



PIPE HANGER DETAIL ⑱



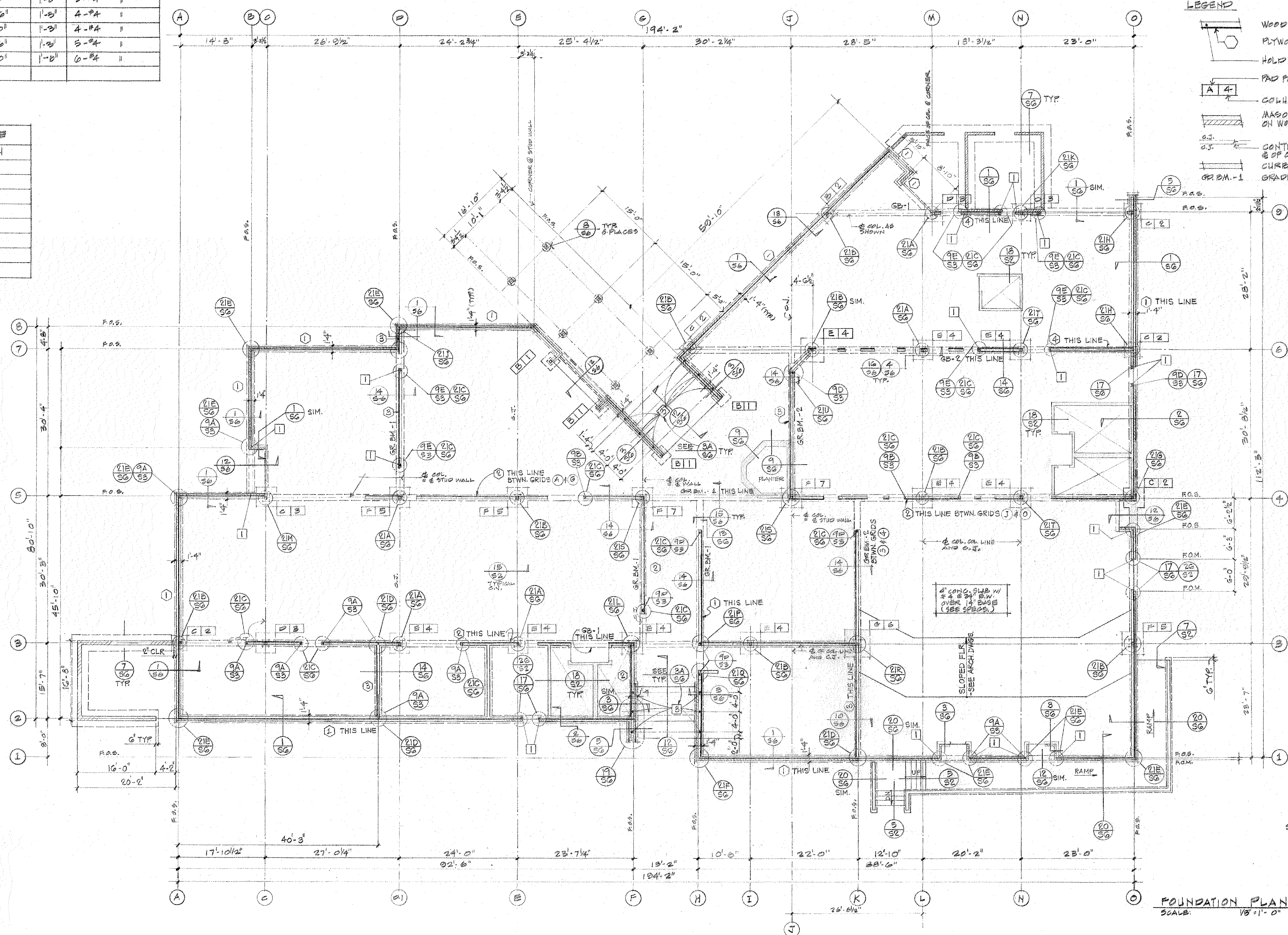
CEILING & LIGHT FIXTURE HANGER DETAIL ⑲

PAD FOOTING SCHEDULE				
MARK	MIN. DEPTH	SIZE (SQUARE)	THICKNESS	REINFORCING
A	SEE PAINT DET	2'-0"	1'-0"	2-#4 EA. WAY
B		2'-0"	1'-0"	2-#4 "
C		3'-0"	1'-0"	3-#4 "
D		3'-0"	1'-0"	4-#4 "
E		4'-0"	1'-0"	4-#4 "
F		4'-0"	1'-0"	5-#4 "
G		5'-0"	1'-0"	6-#4 "

COLUMN SCHEDULE	
MARK	DESCRIPTION
1	G x G WOOD
2	T.S. 3x3x1/4
3	T.S. 3 1/2x3 1/2x1/4
4	T.S. 4x4x1/4
5	T.S. 4x4x3/16
6	T.S. 5x5x1/4
7	T.S. 4x4x1/2
8	

- NOTES:**
- ALL STUD WALL WITH VENEER SHALL BE 3x6 STUDS @ 16" UNO.
  - ALL STRUCTURAL INTERIOR WOOD STUD WALL SHALL BE 2x6 STUDS @ 16" UNO.
  - FOR STRUCTURAL EXCAVATION AND COMPACTION SEE SPECS. AND 11.02.

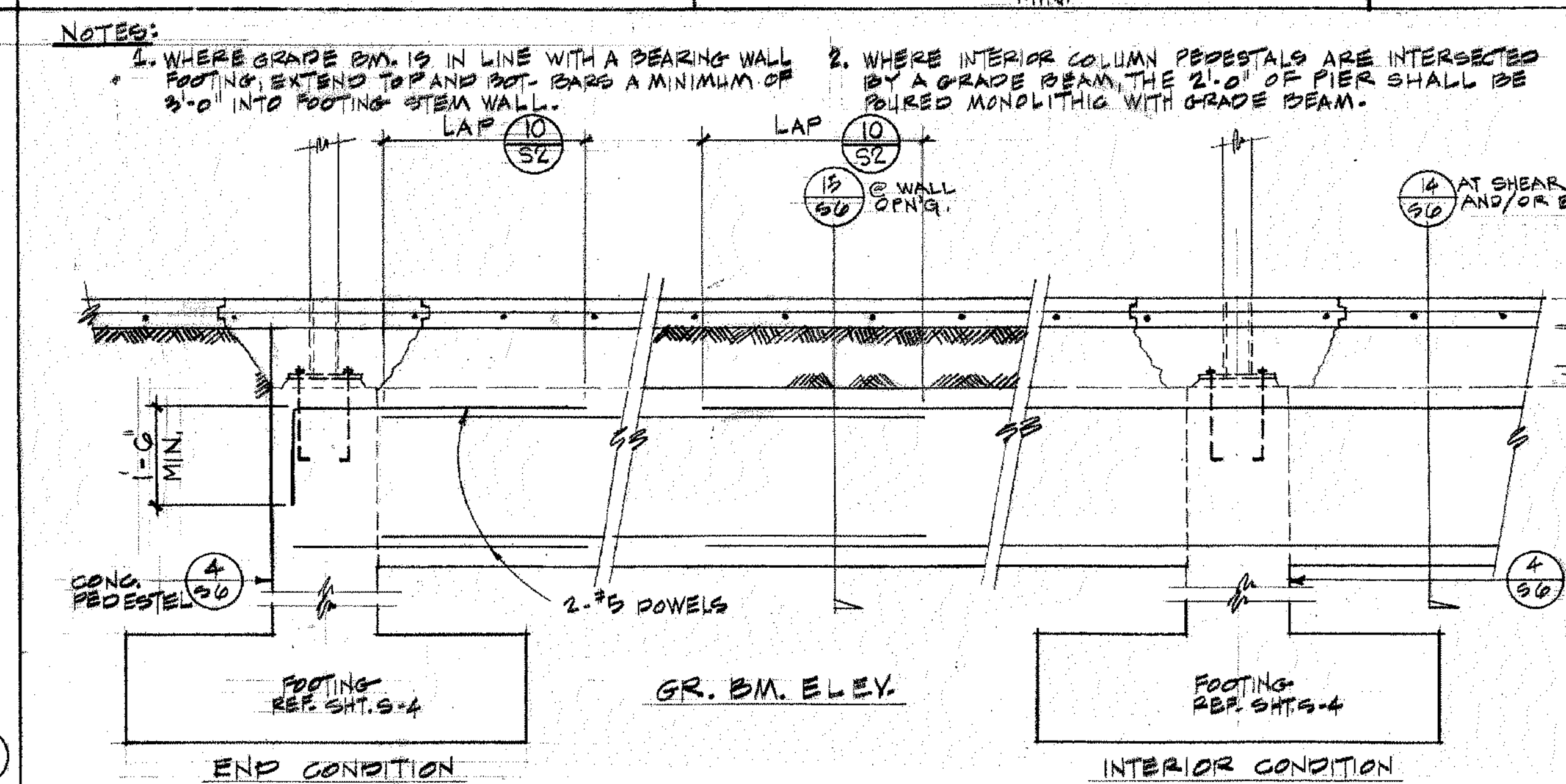
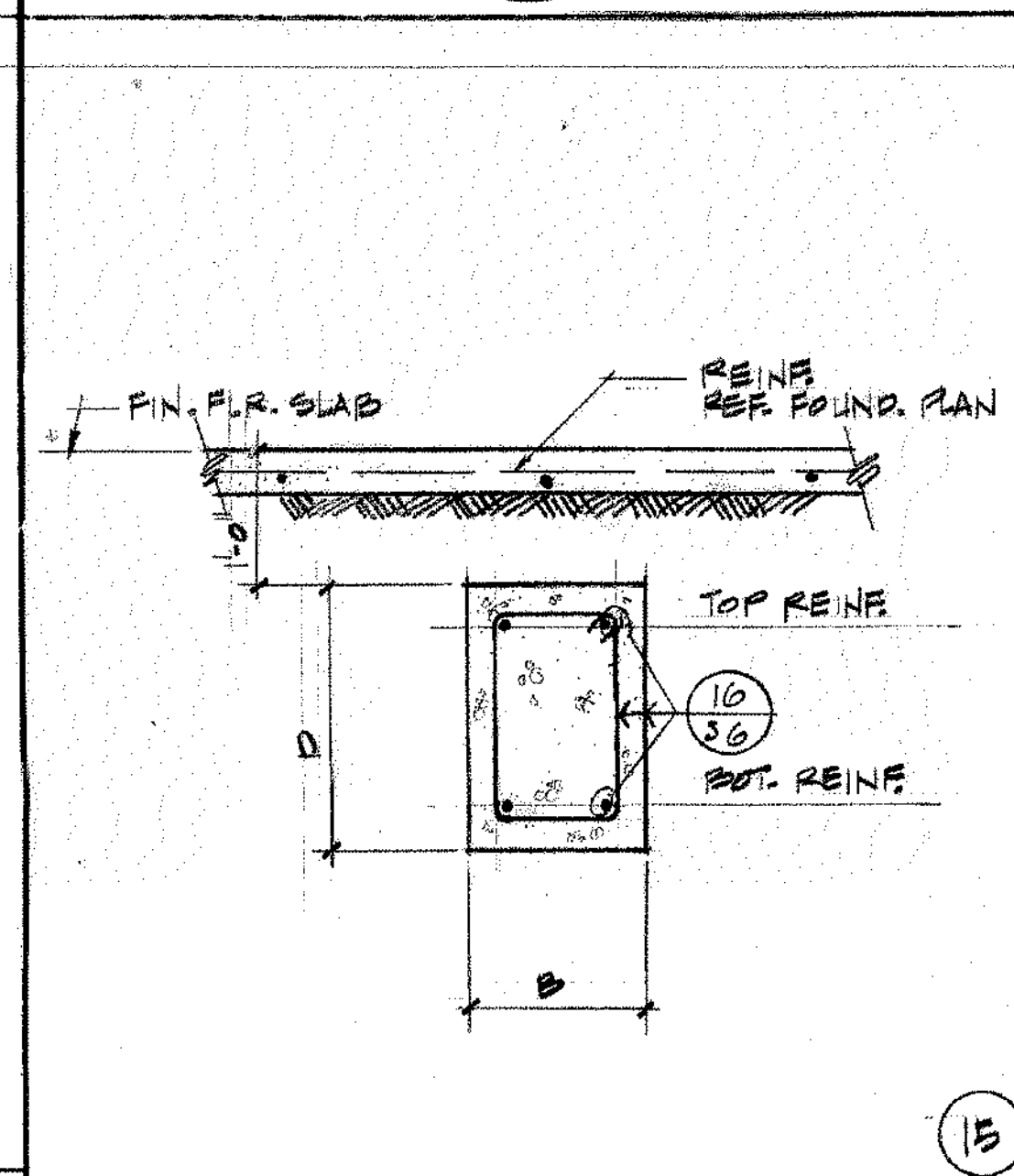
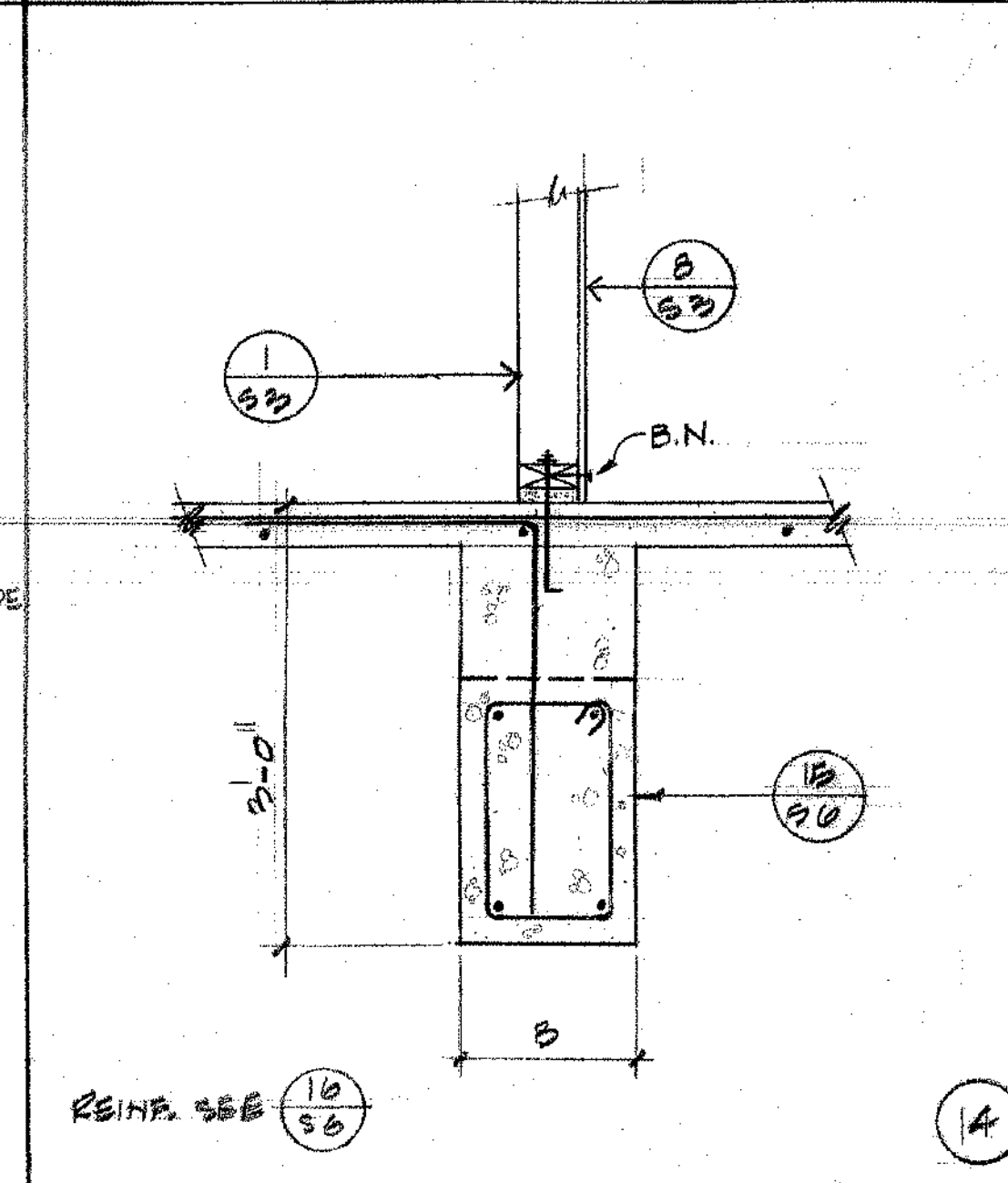
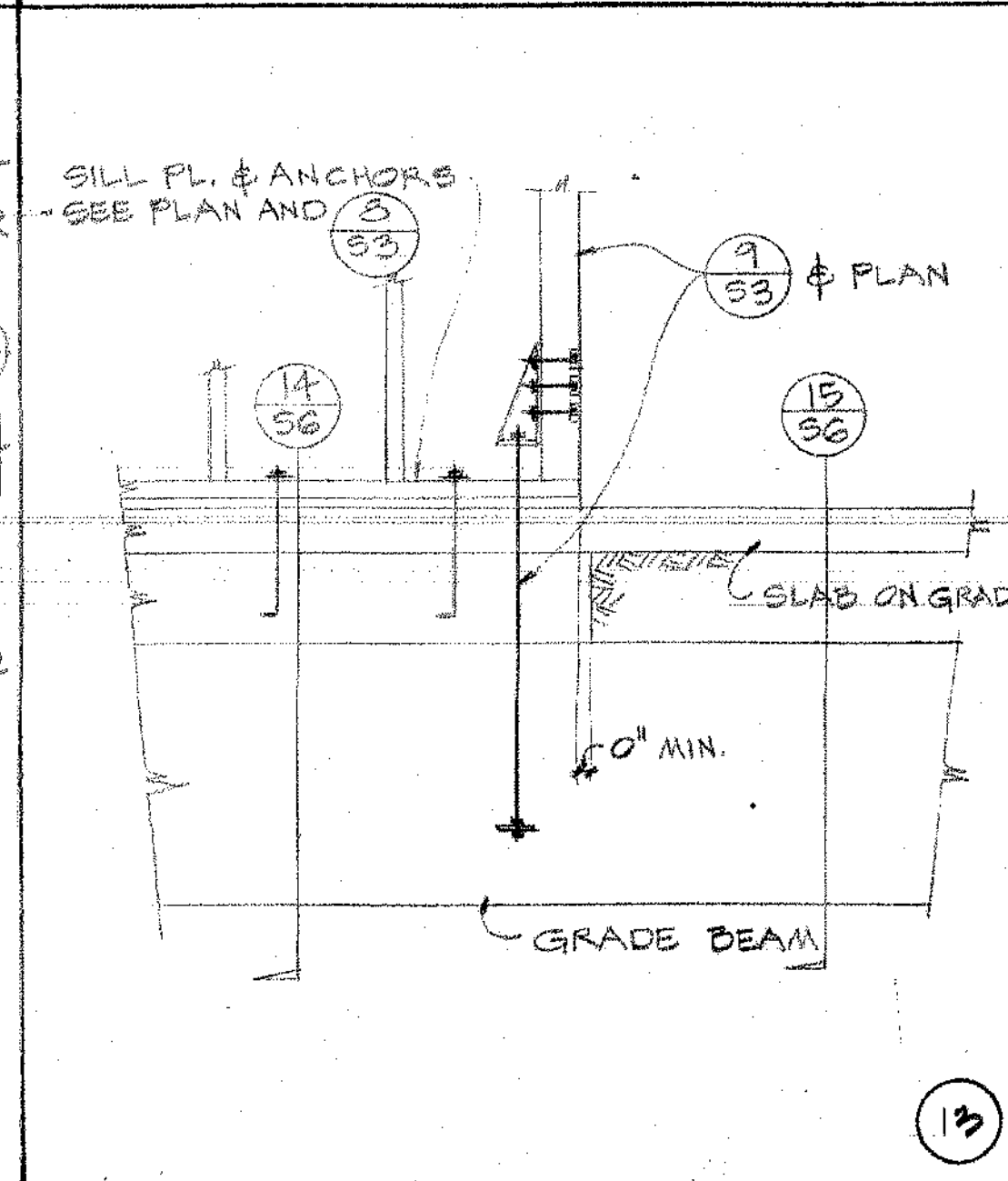
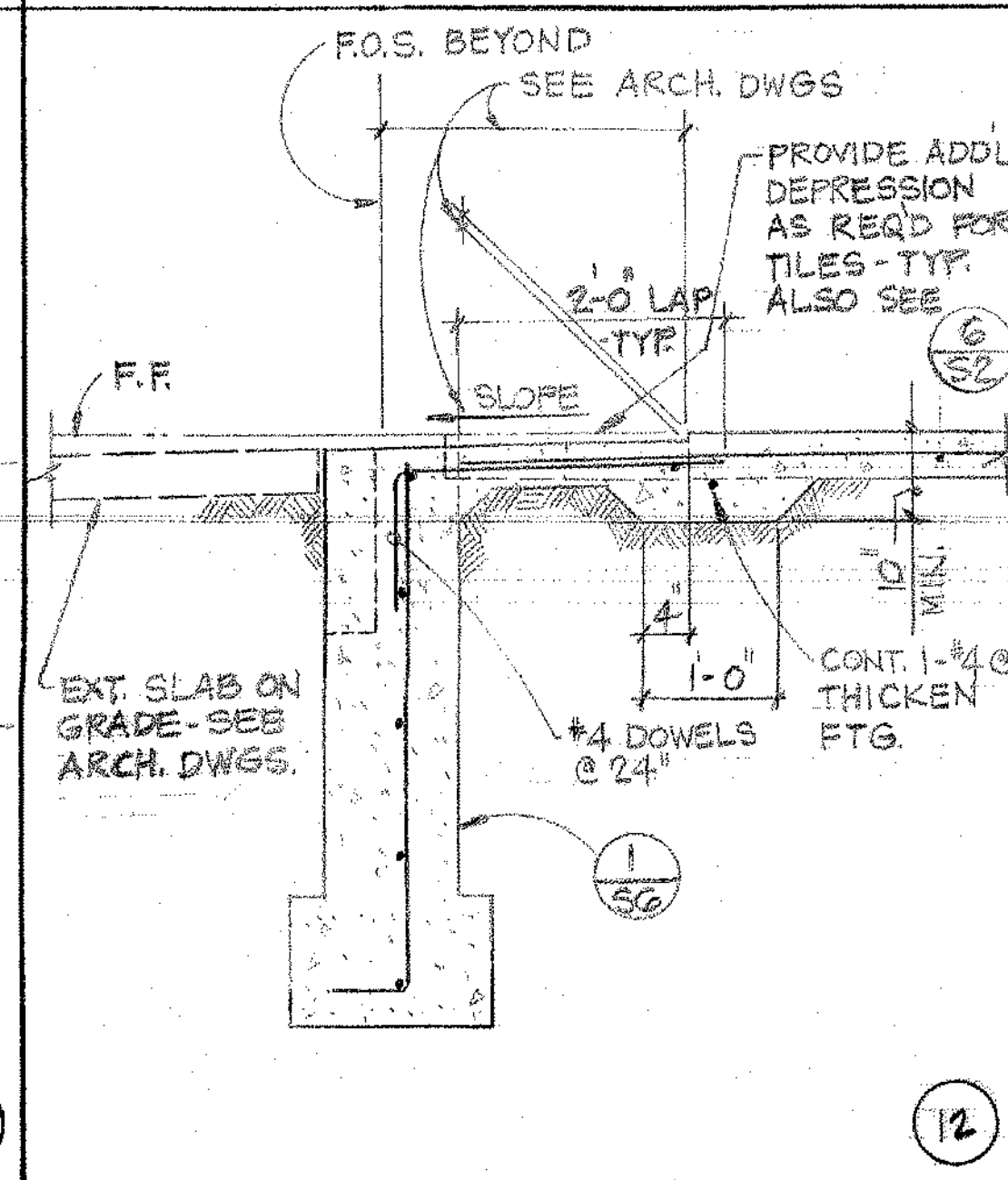
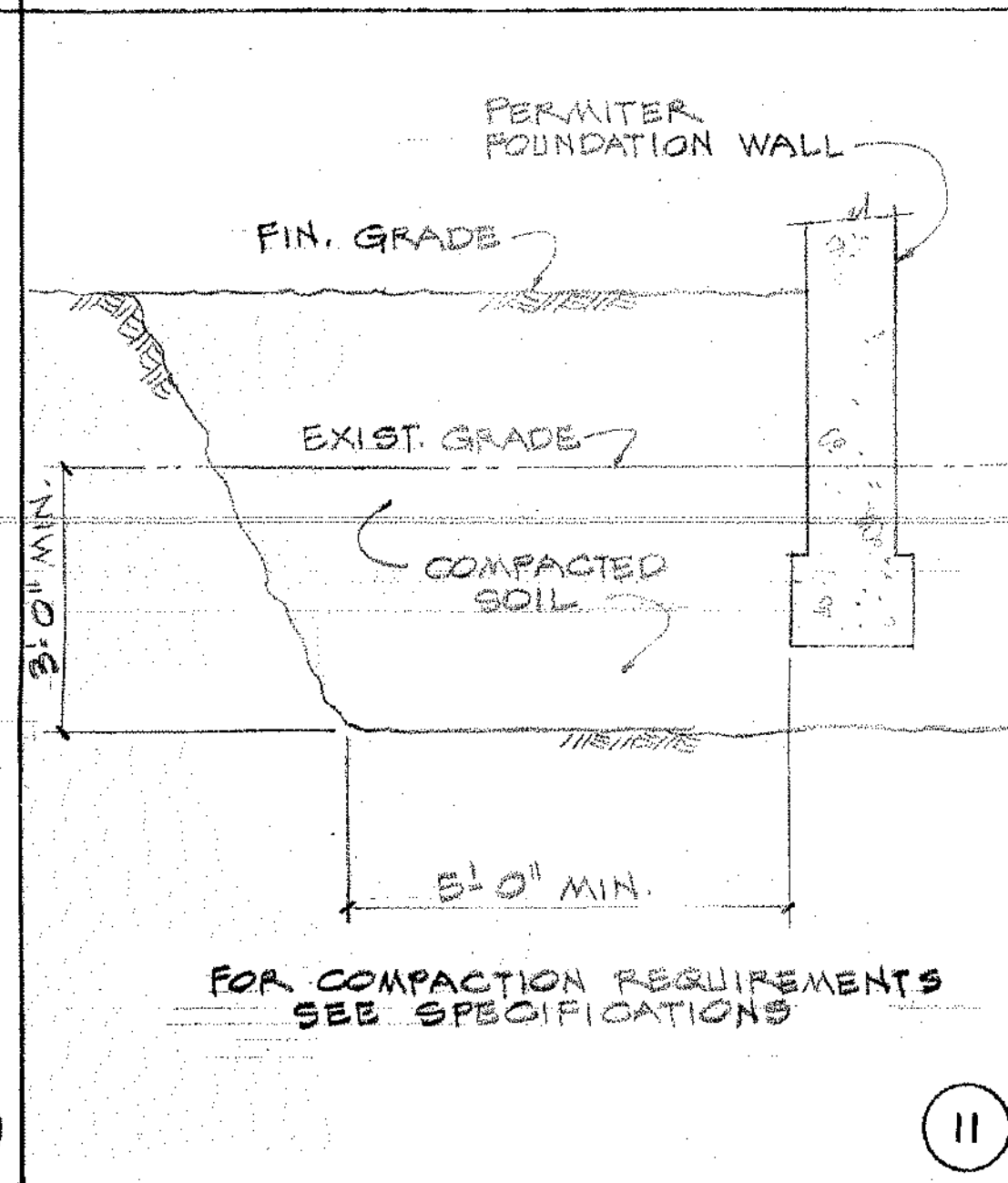
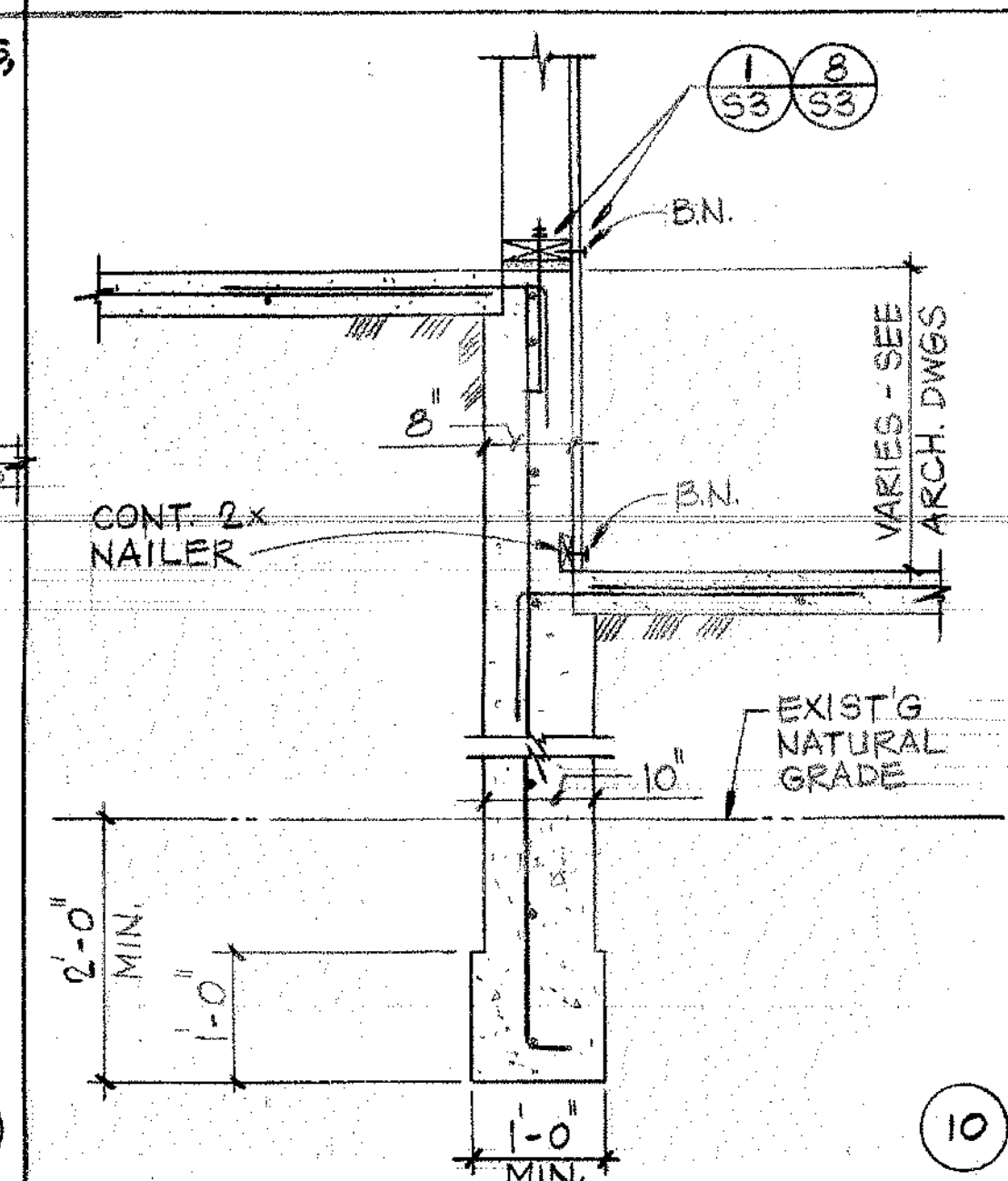
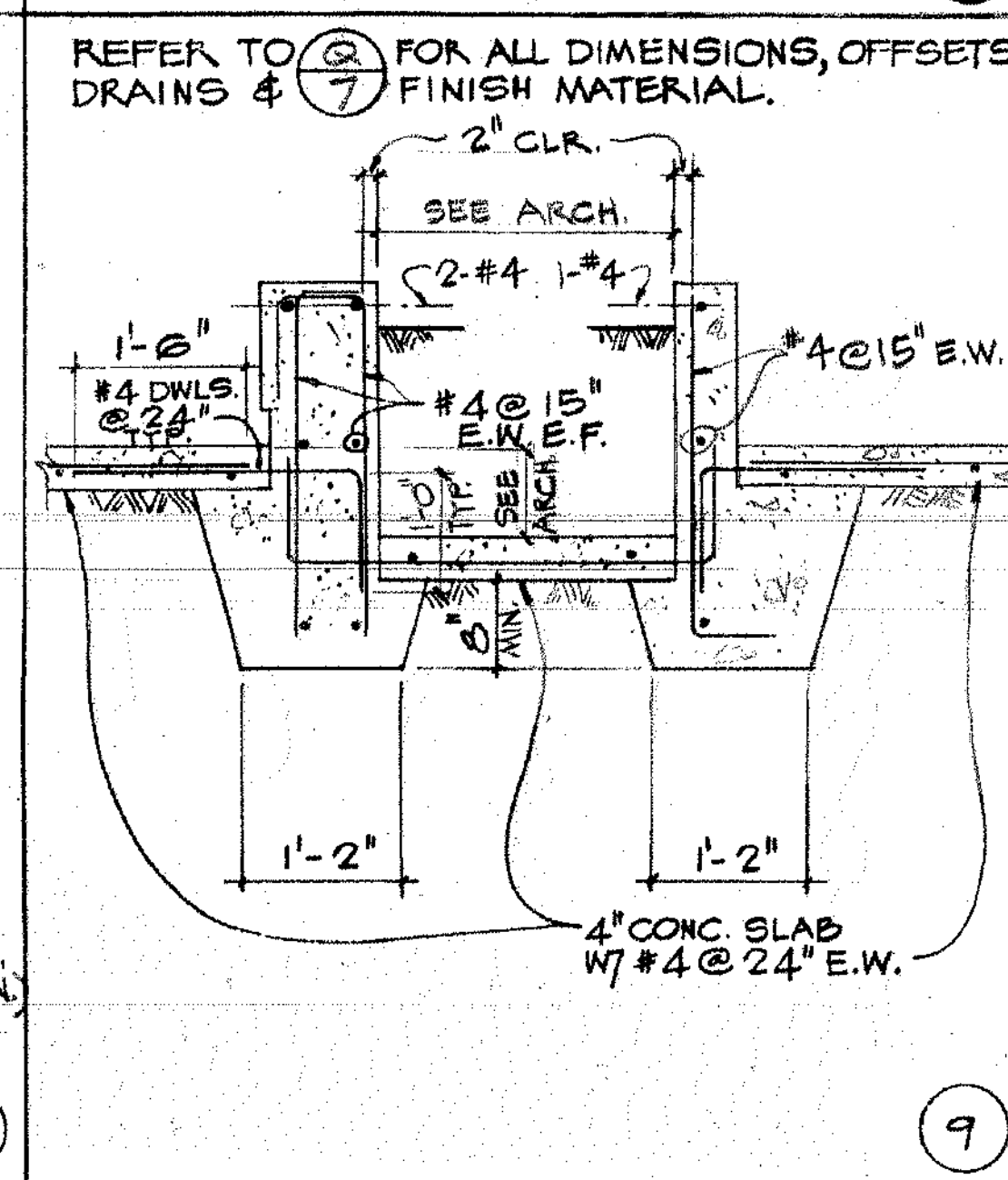
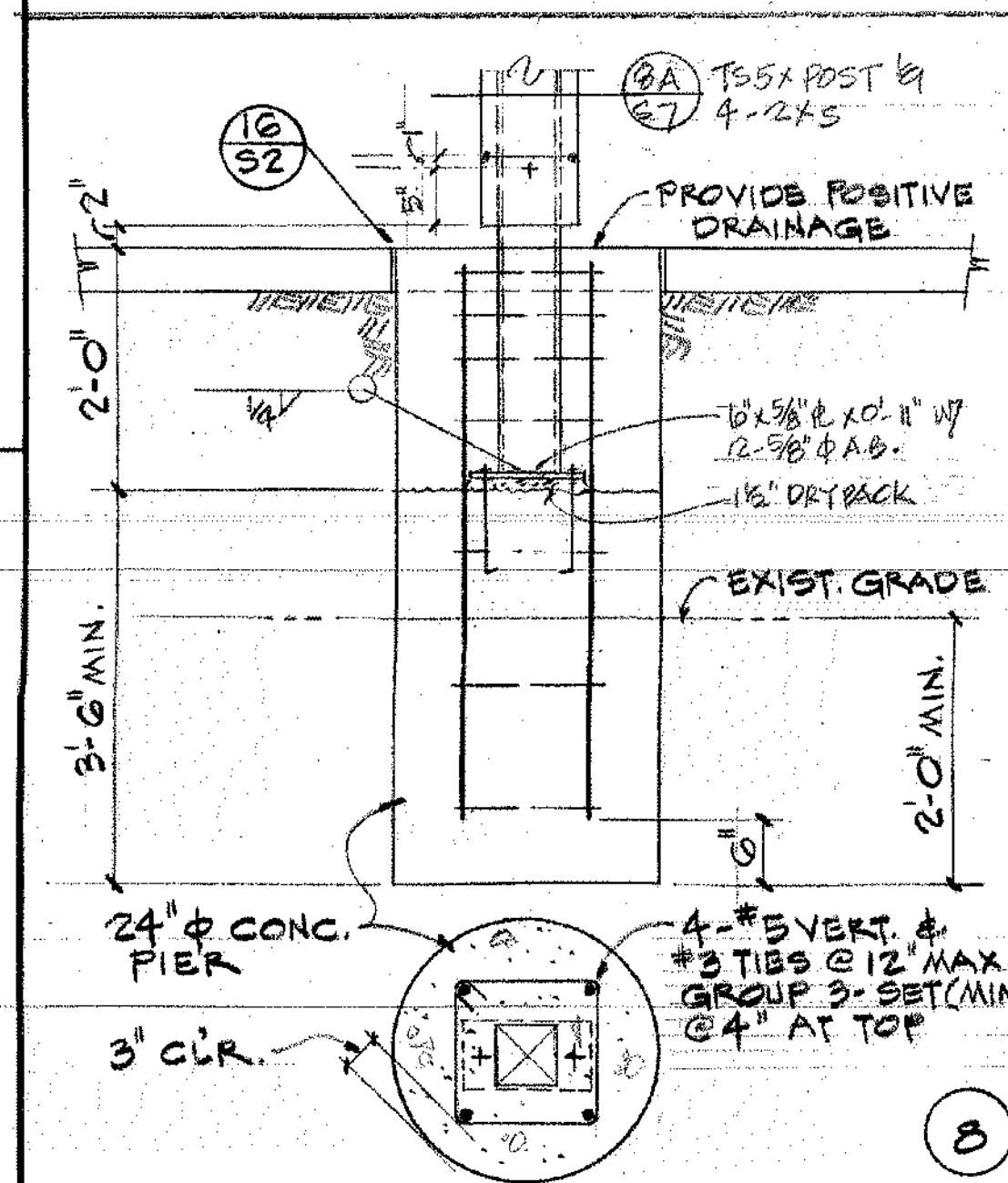
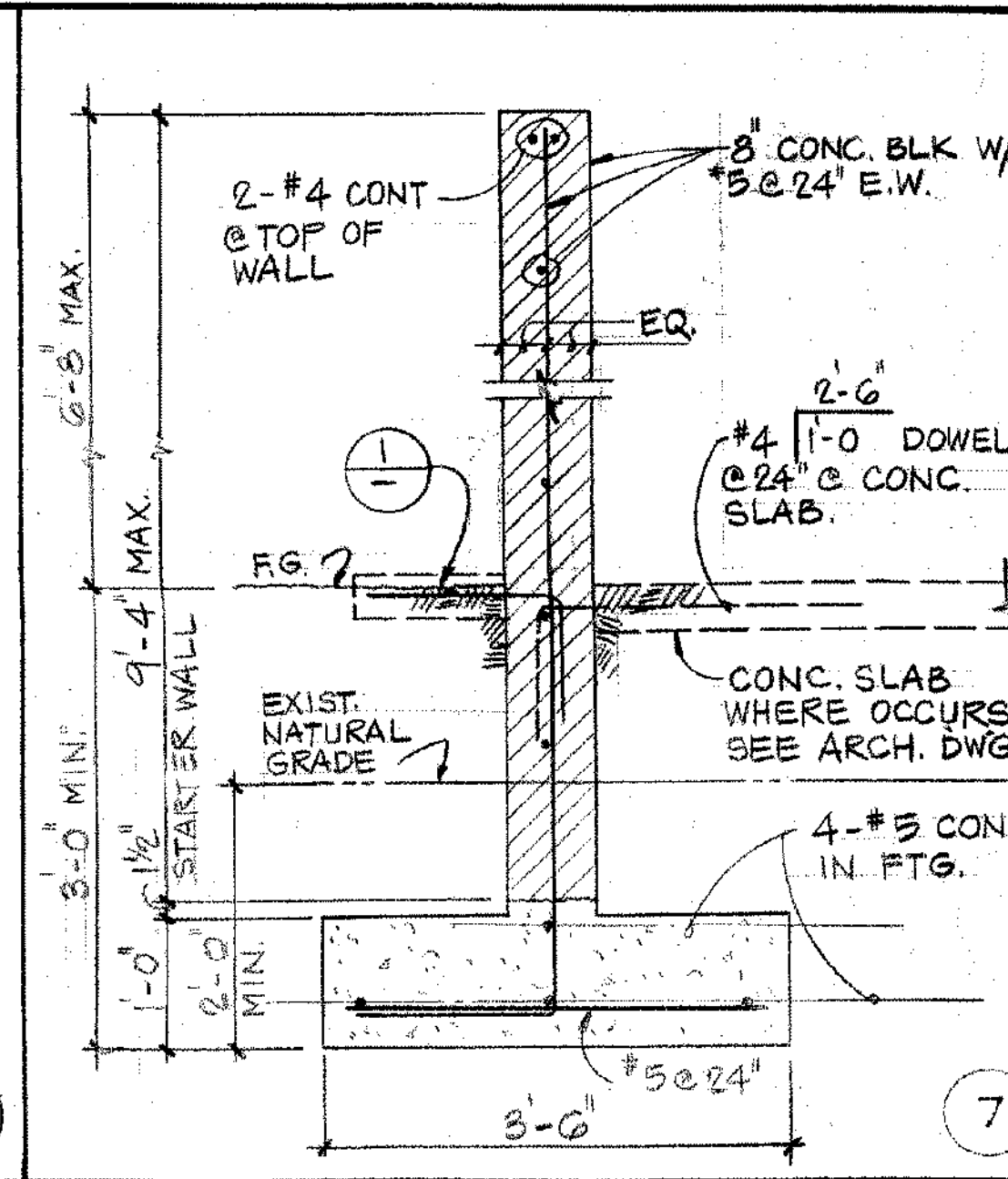
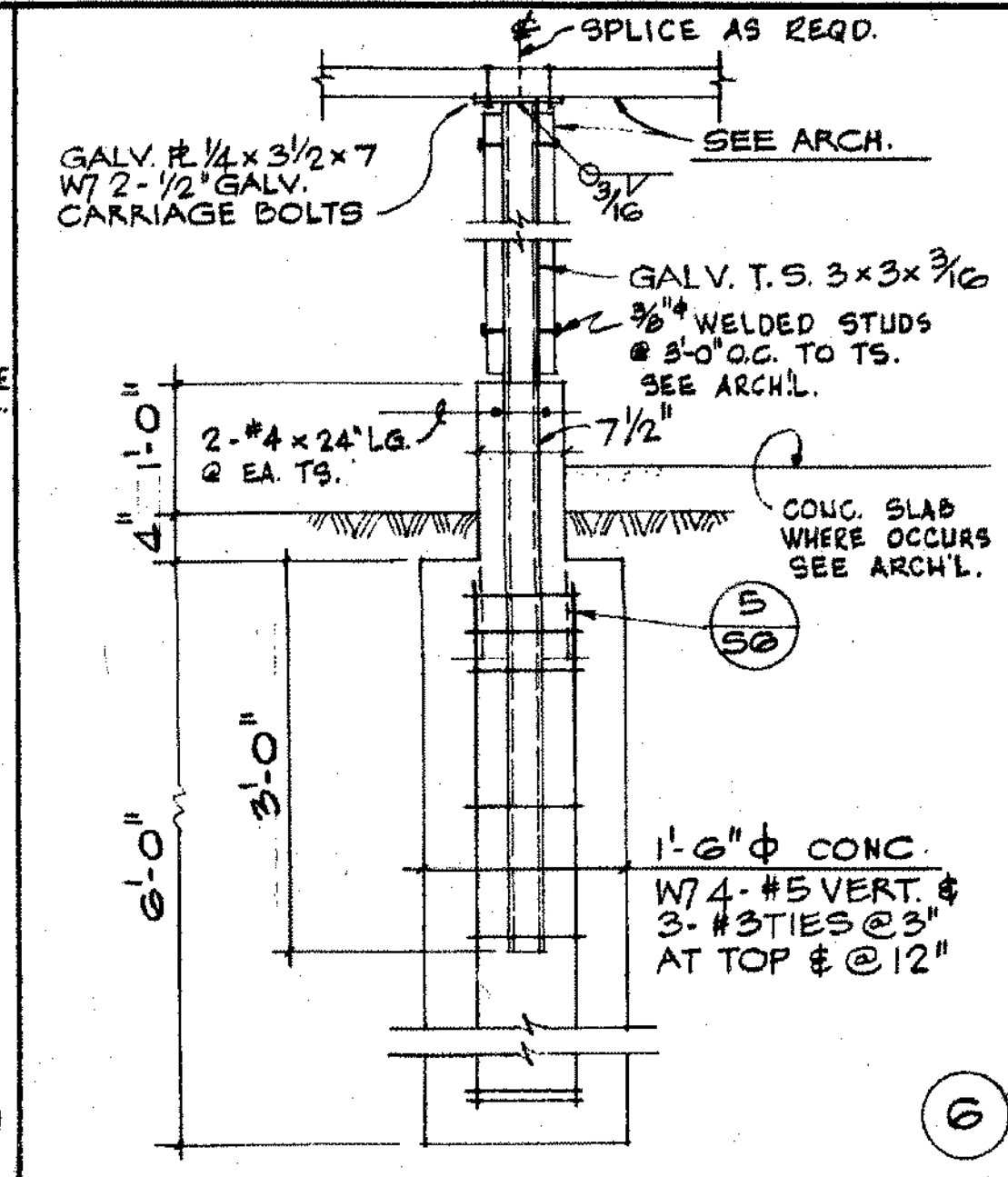
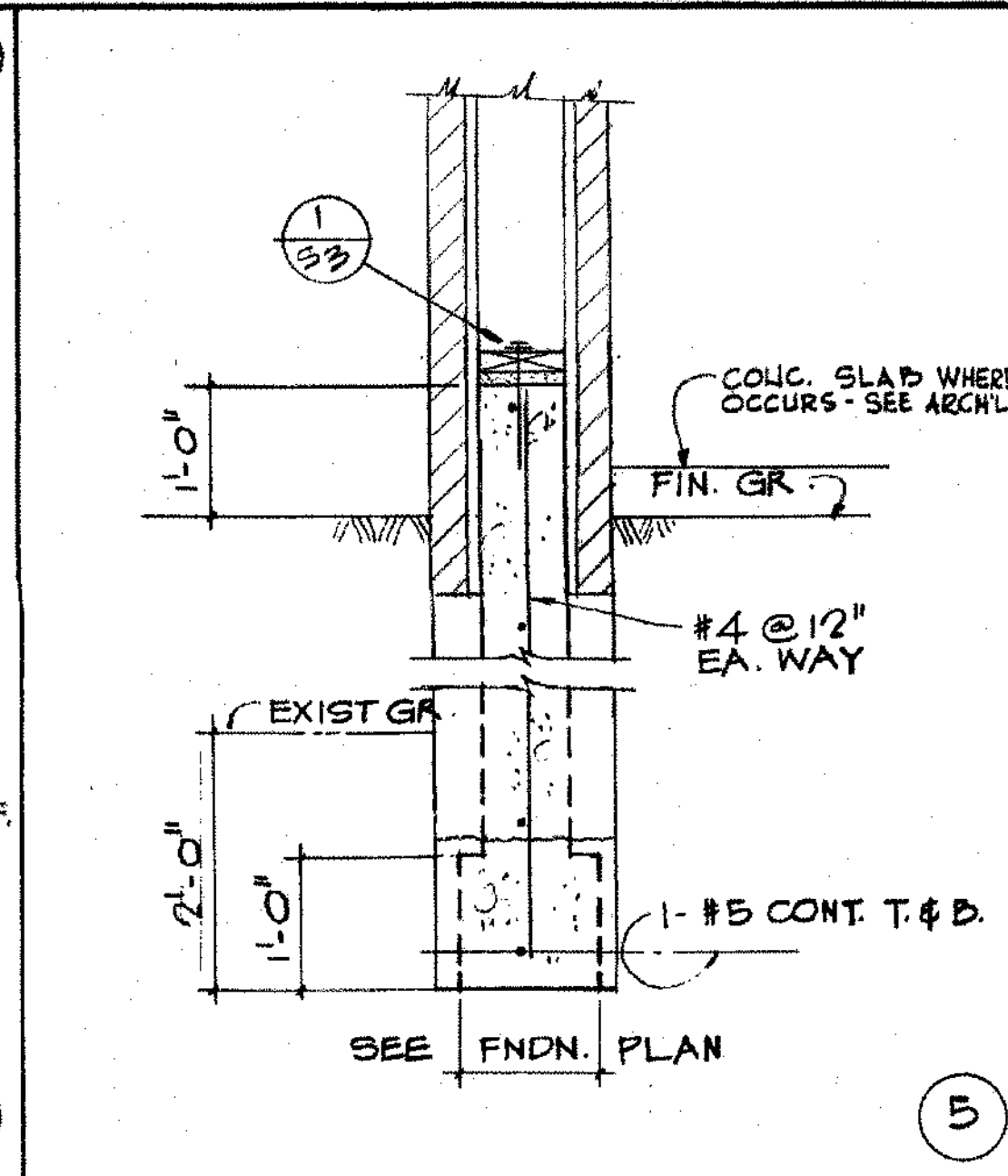
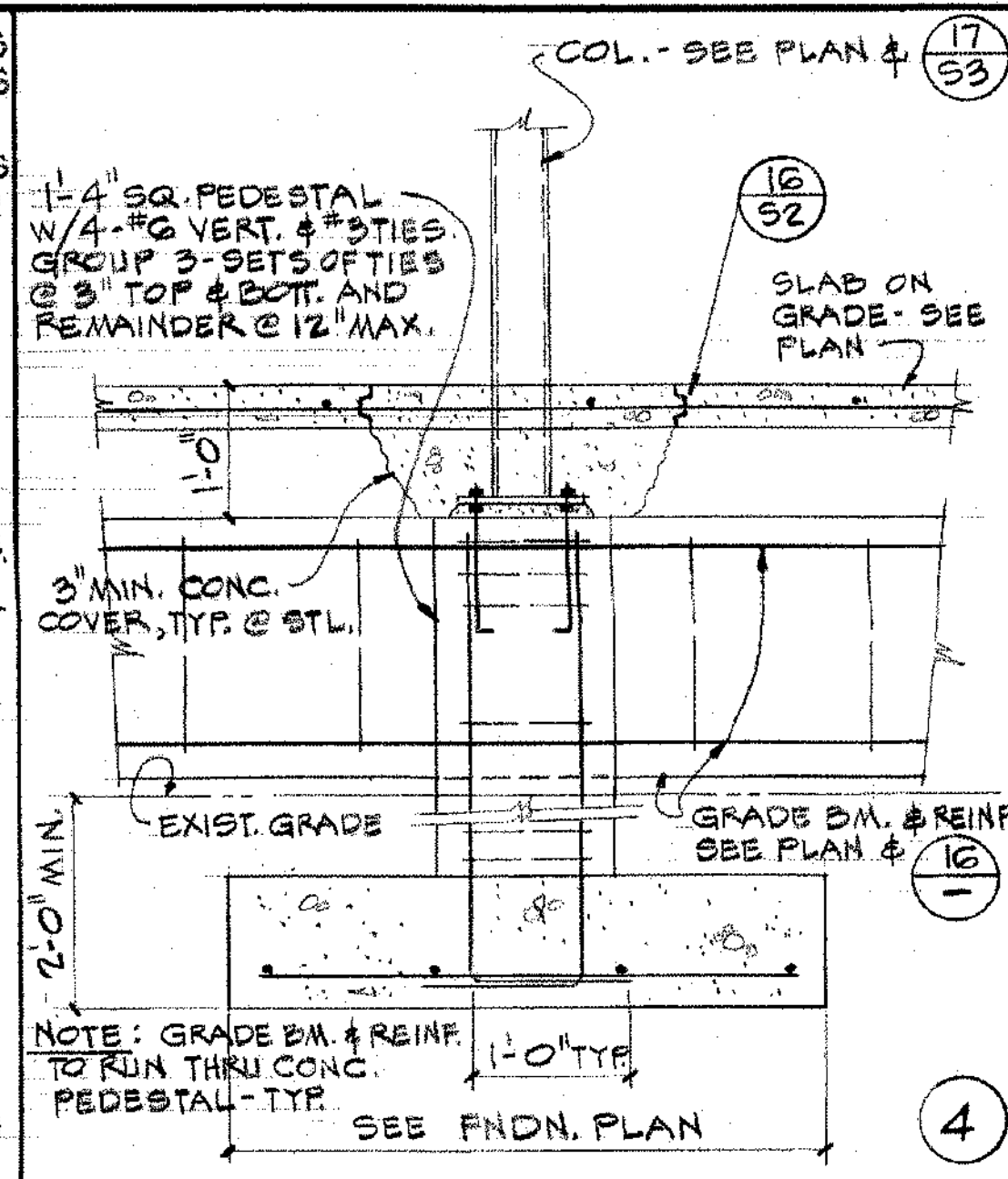
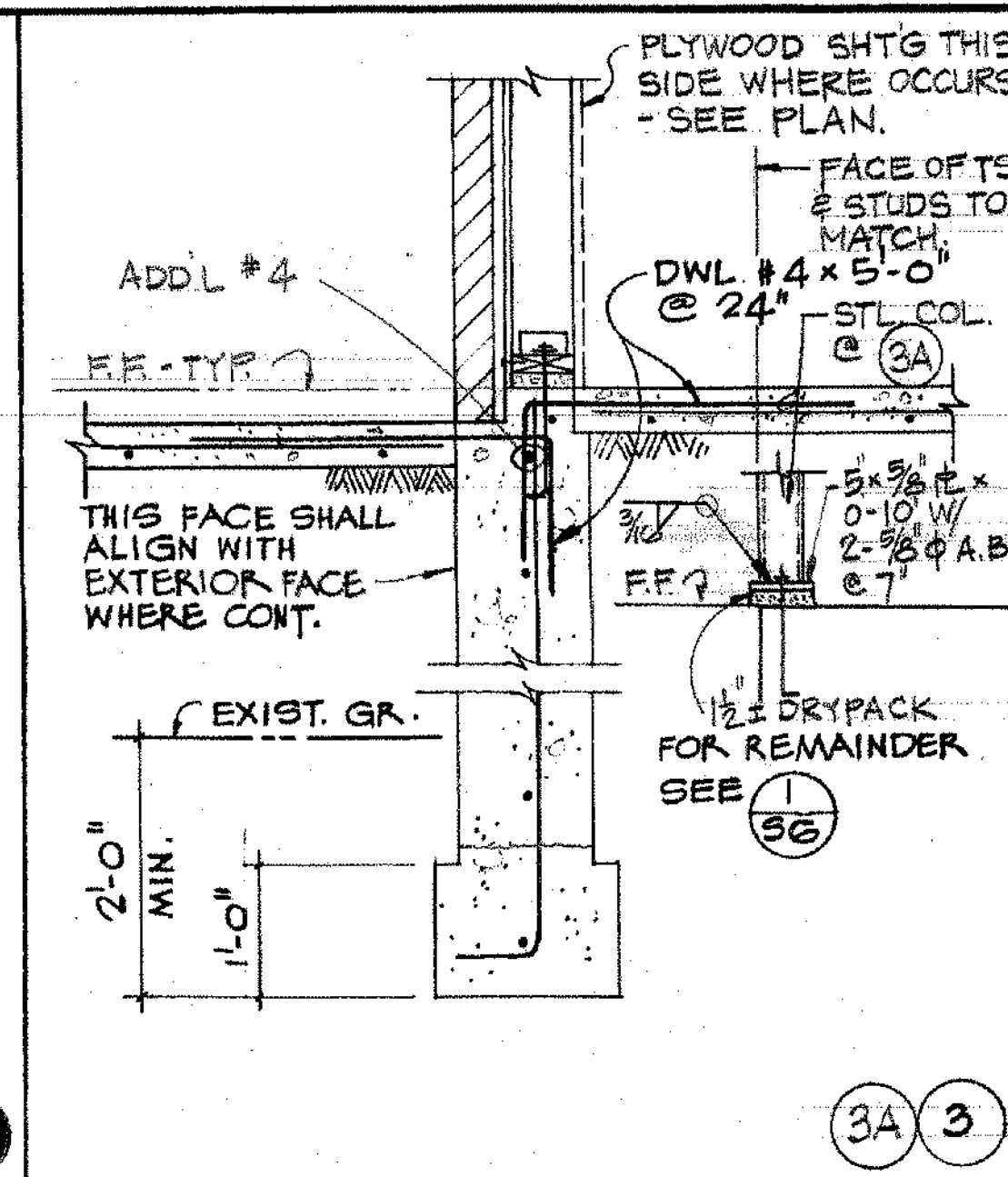
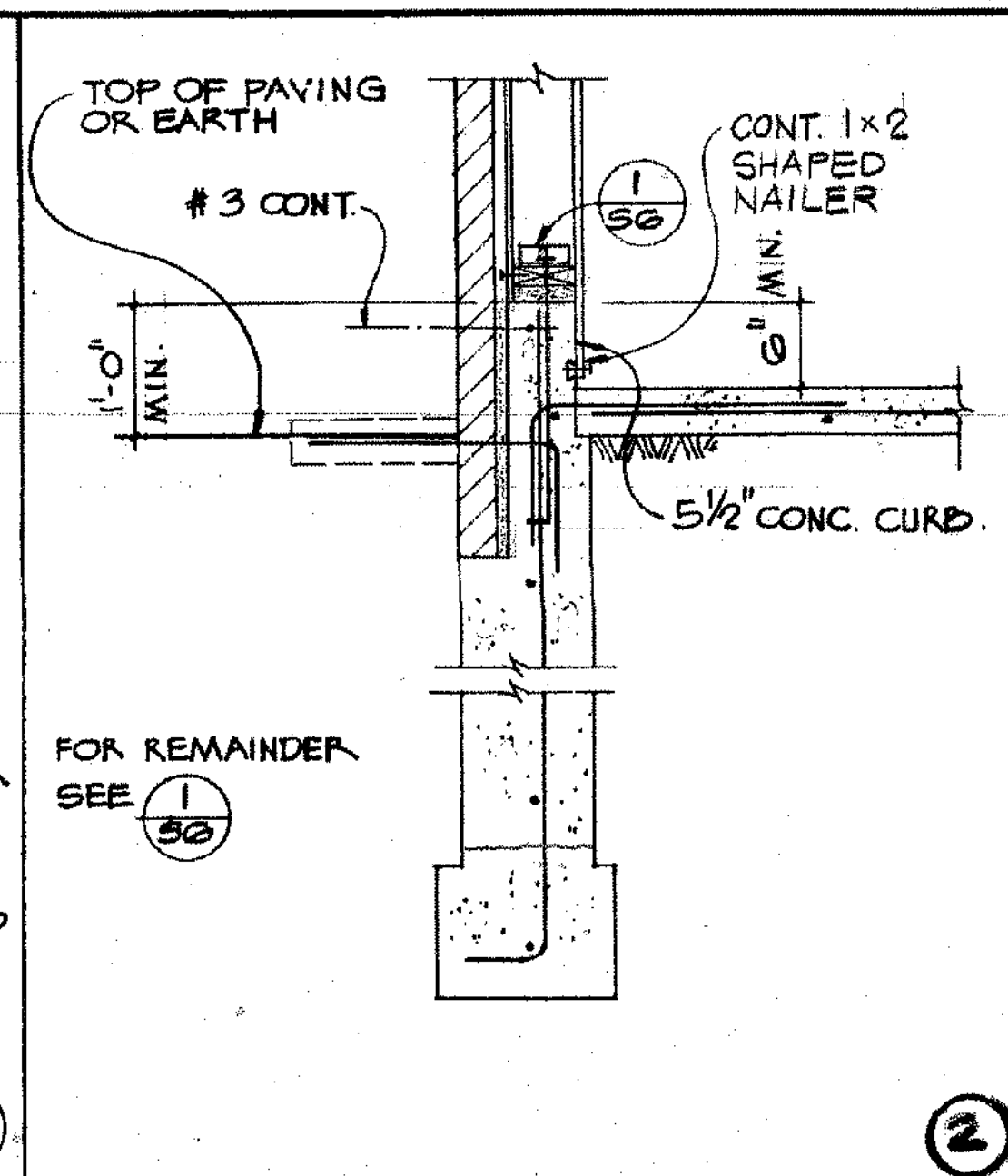
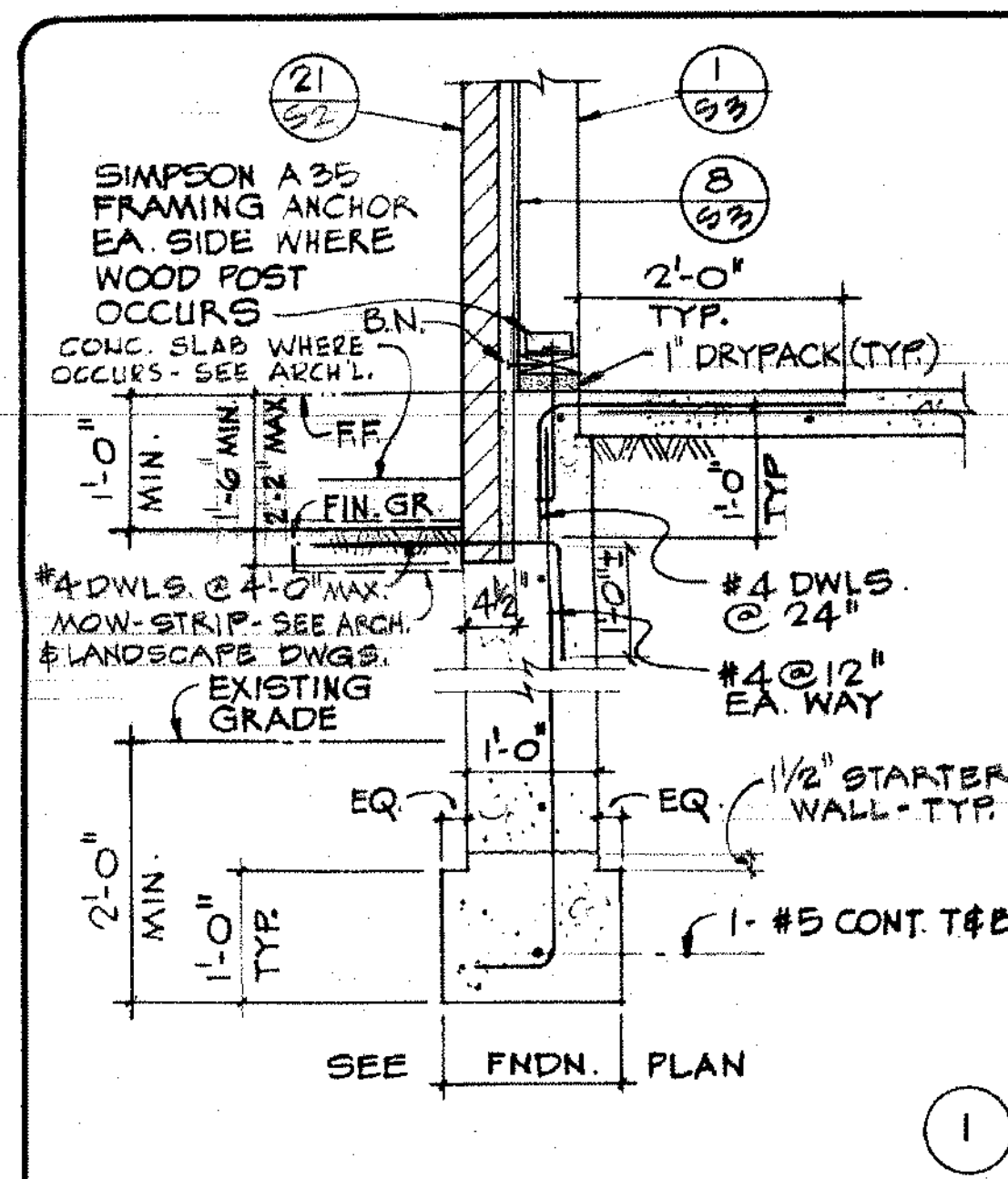
- LEGEND**
- WOOD STUDS @ 16"
  - PLYWOOD SHEAR PANEL
  - HOLD DOWN ANCHOR
  - PAD FOOTING MARK
  - COLUMN MARK
  - MASONRY VENEER ON WOOD STUDS
  - CONTROL JOINT (C.J.) OF COL. (4x4)
  - CURB SEE DET.
  - GRADE BEAM SEE



**FOUNDATION PLAN**  
SCALE: 1/8" = 1'-0"

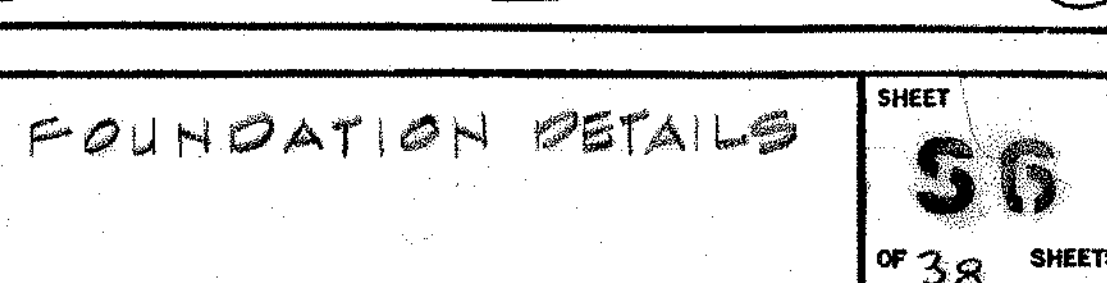
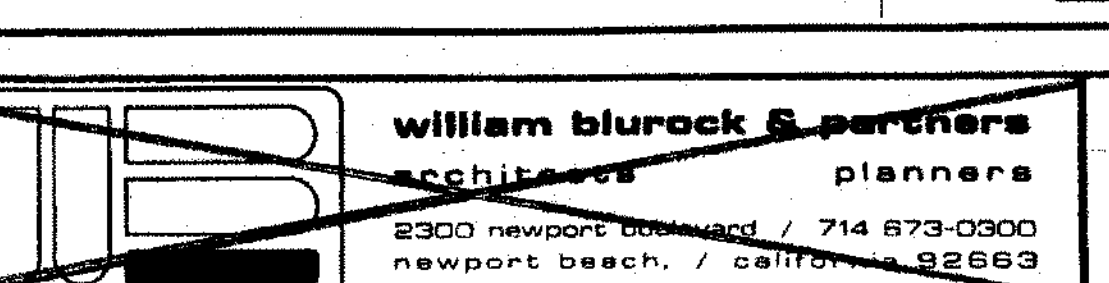
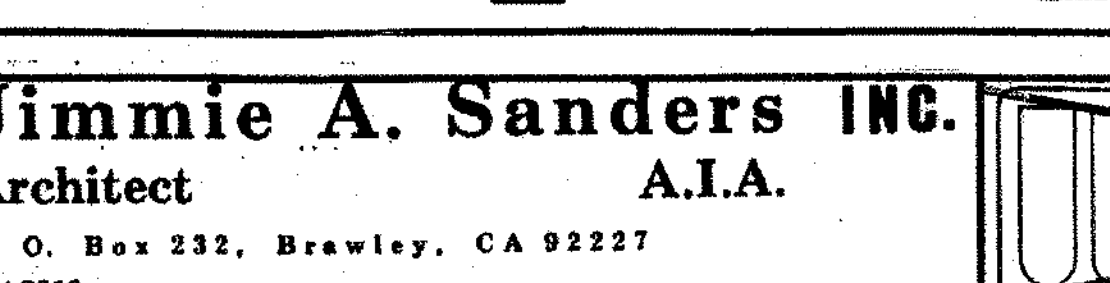
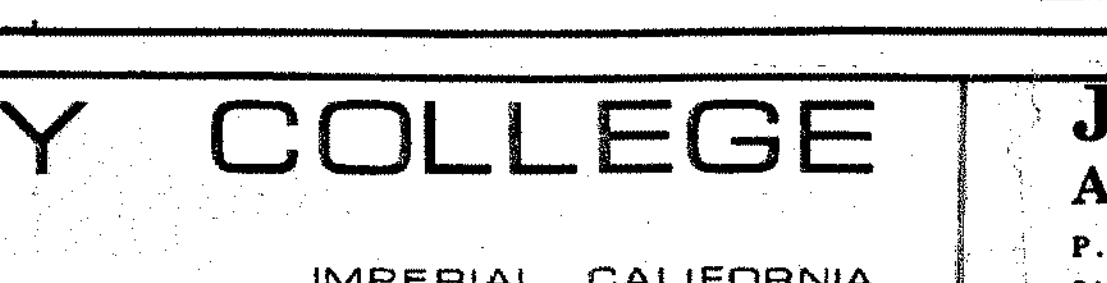
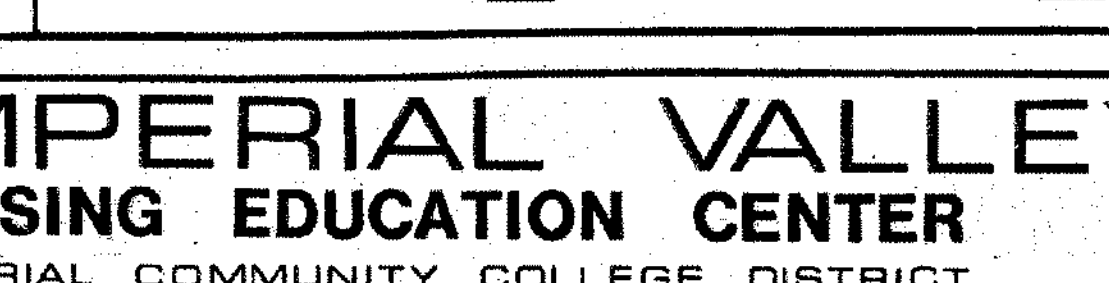
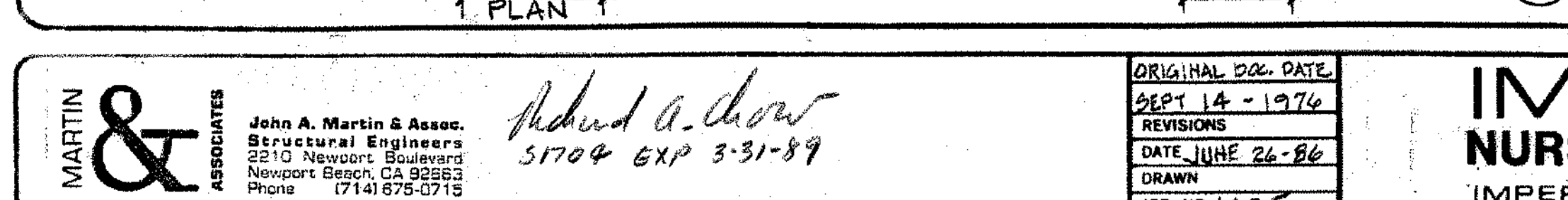
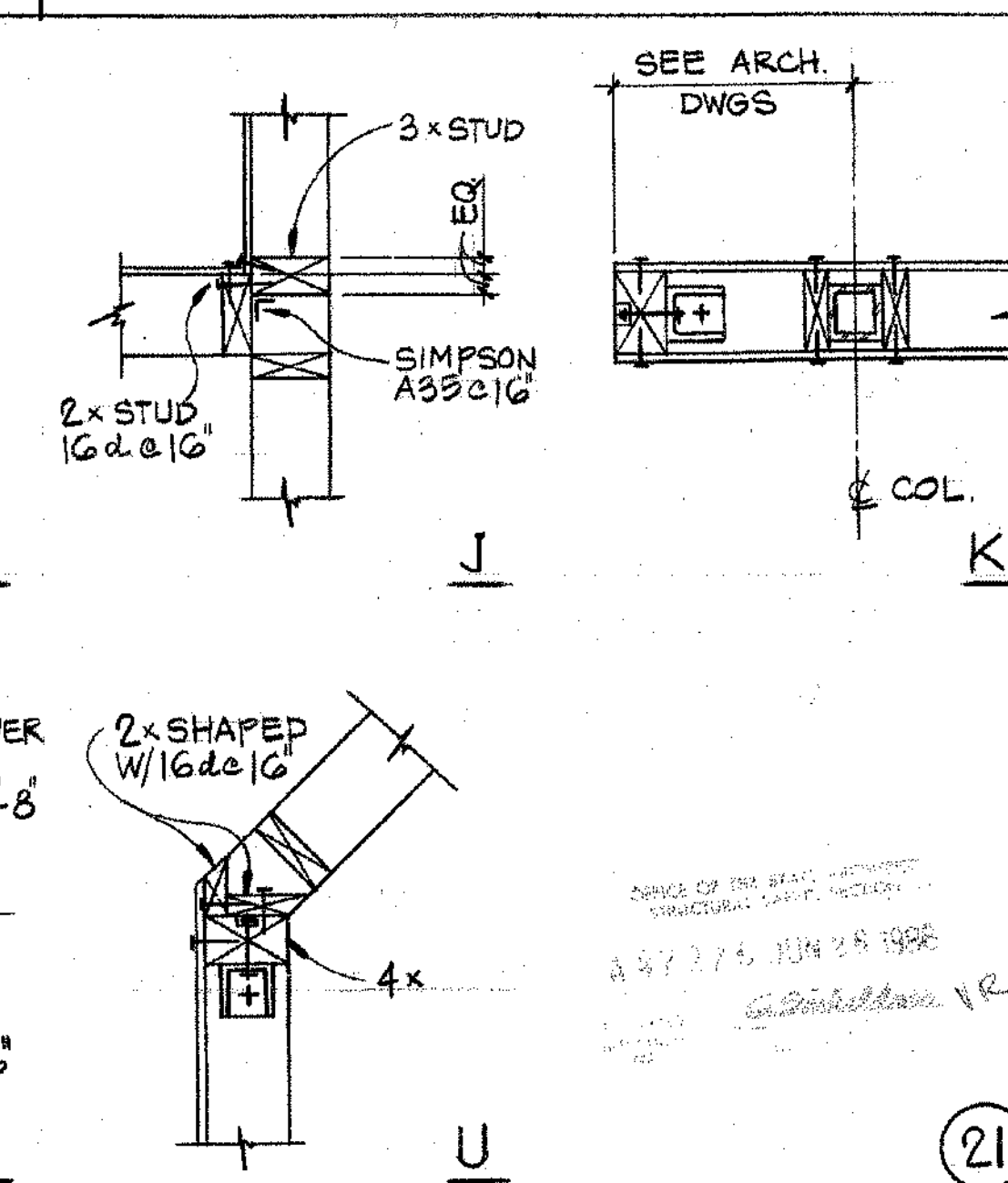
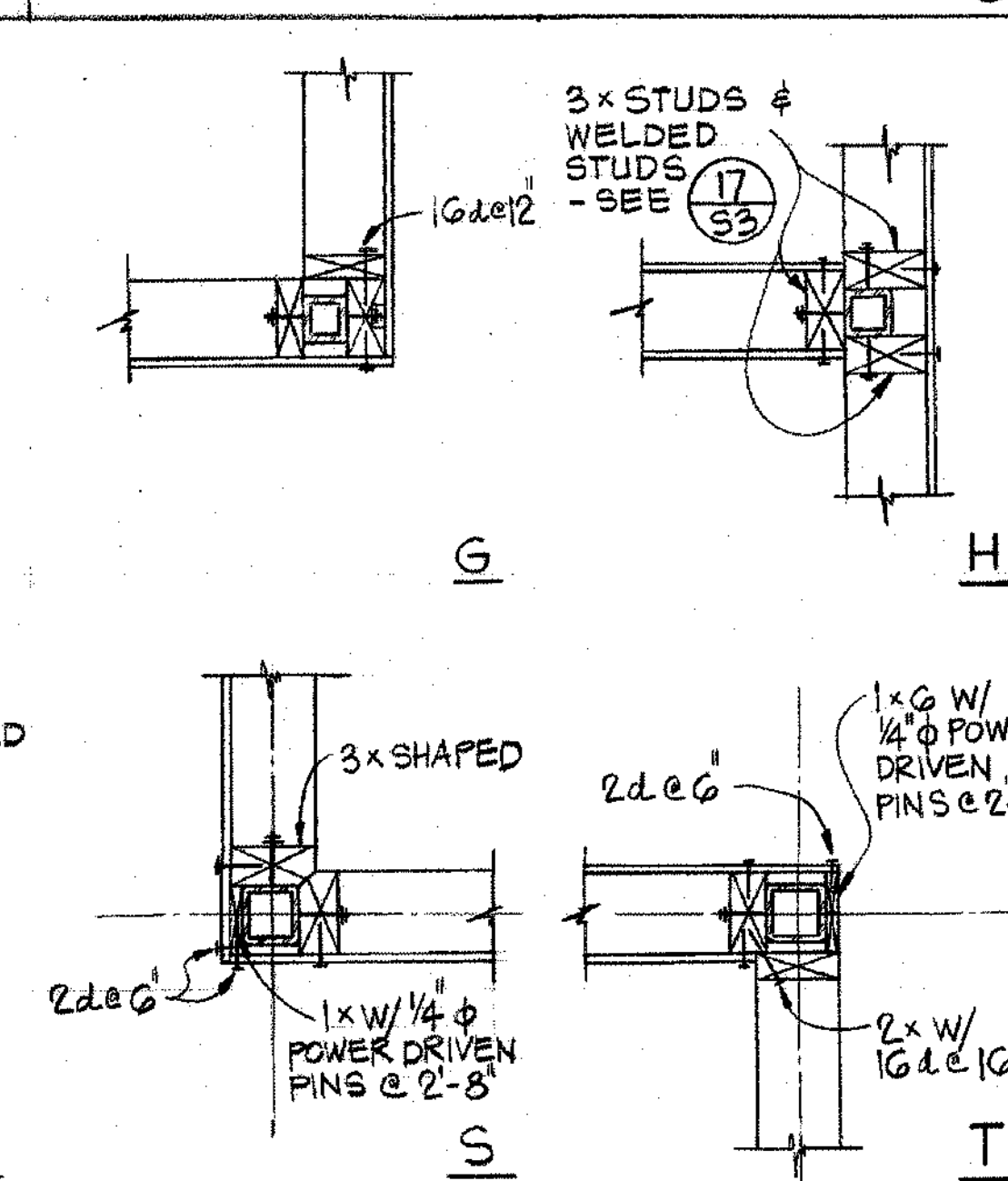
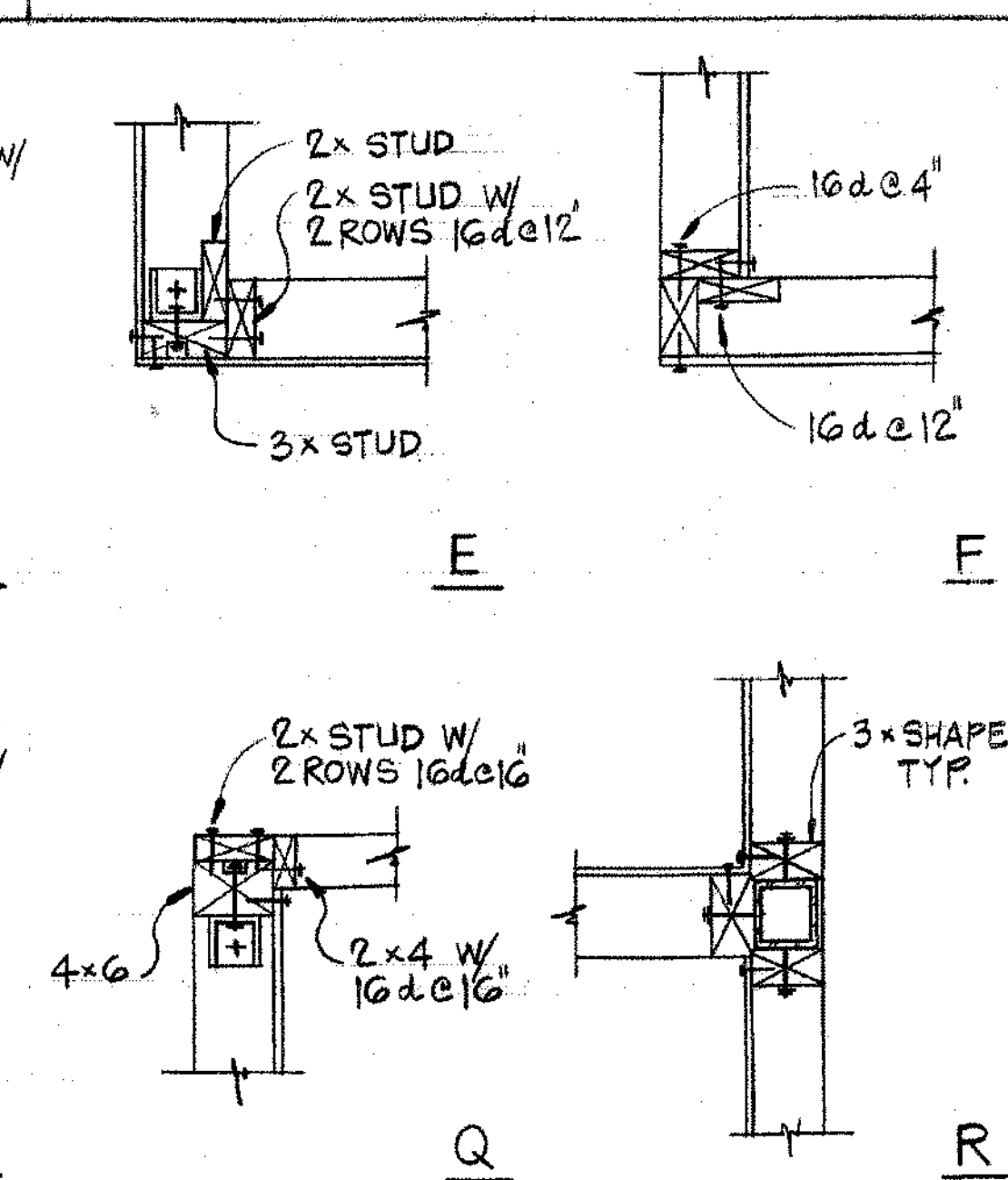
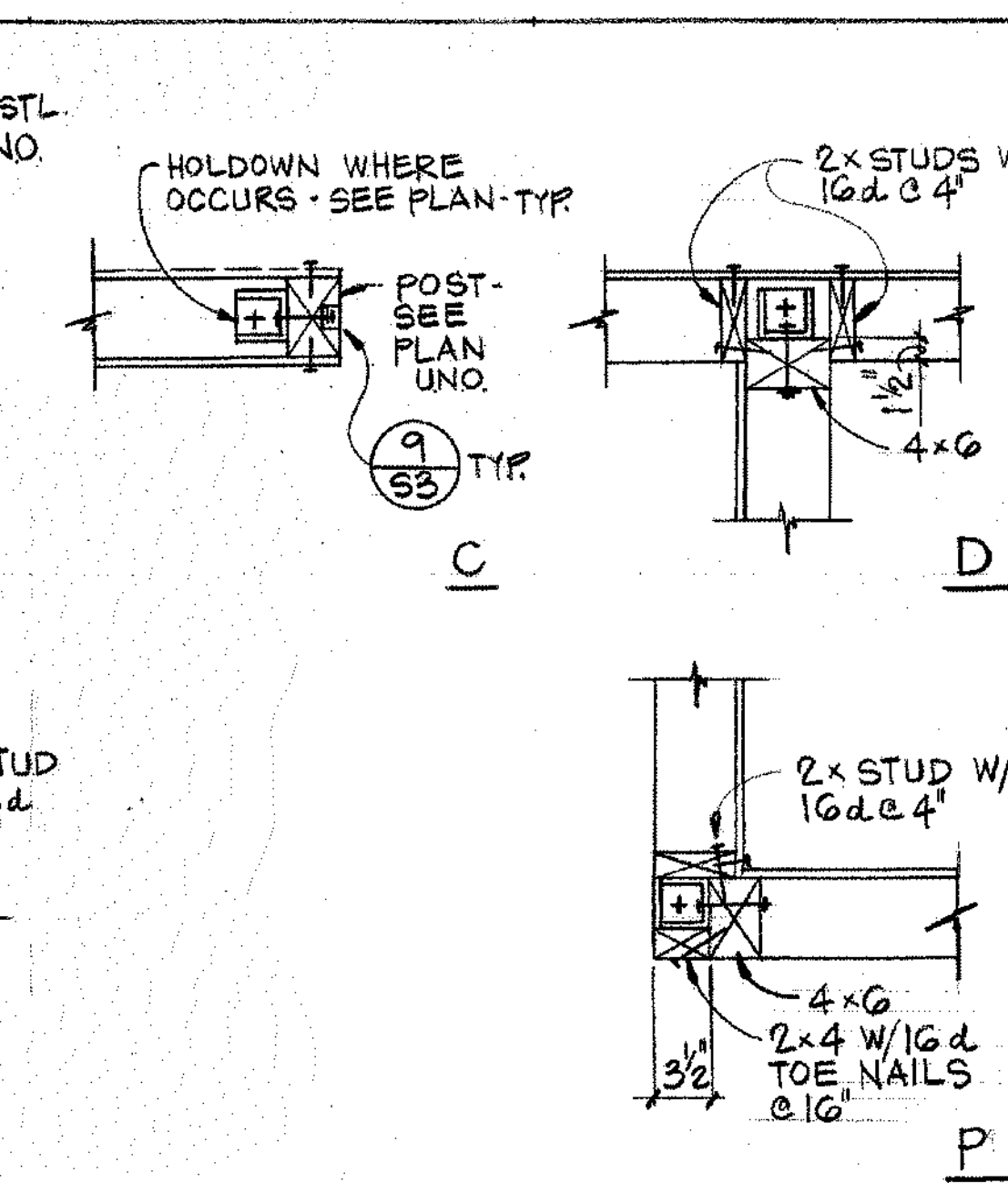
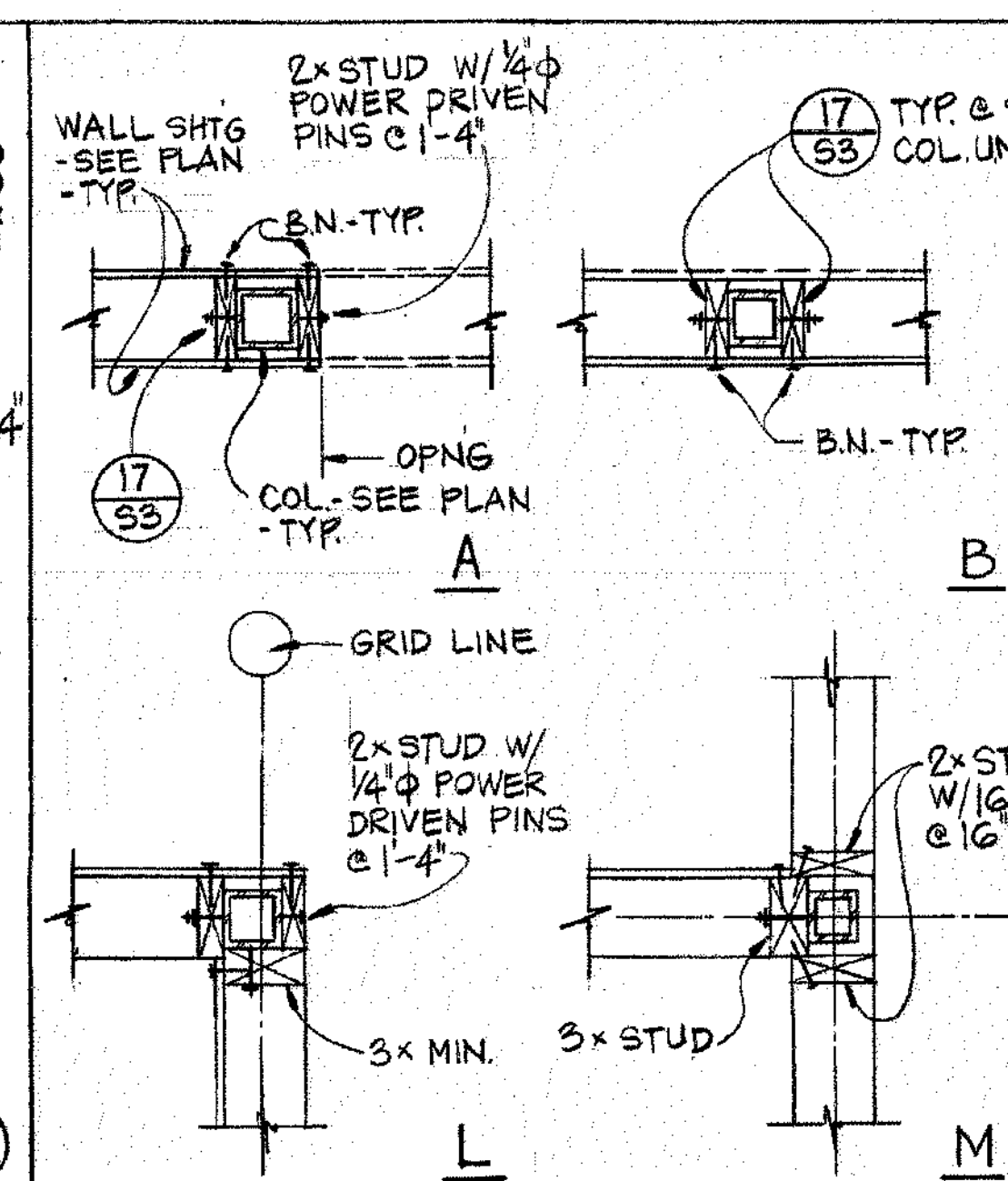
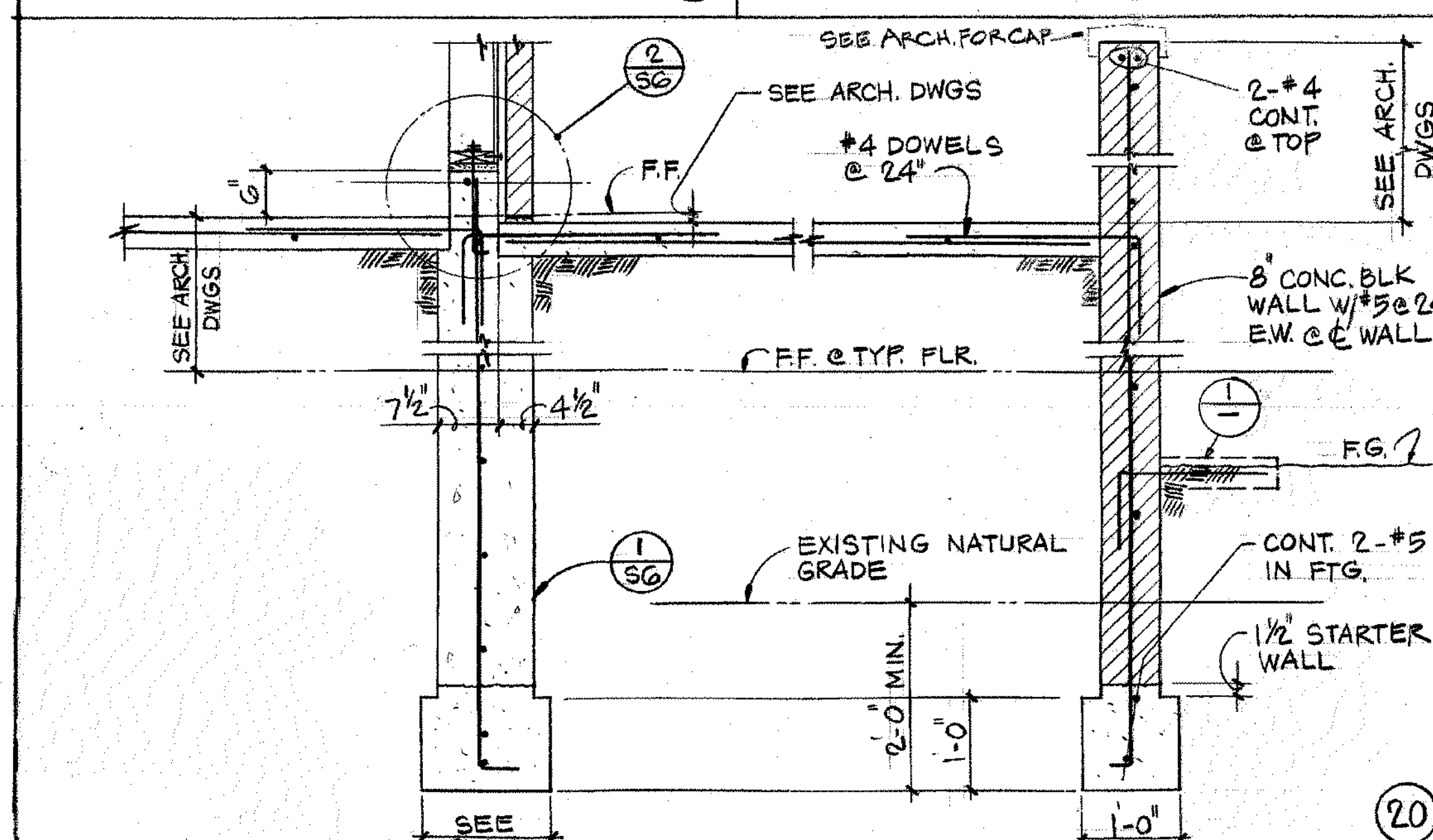
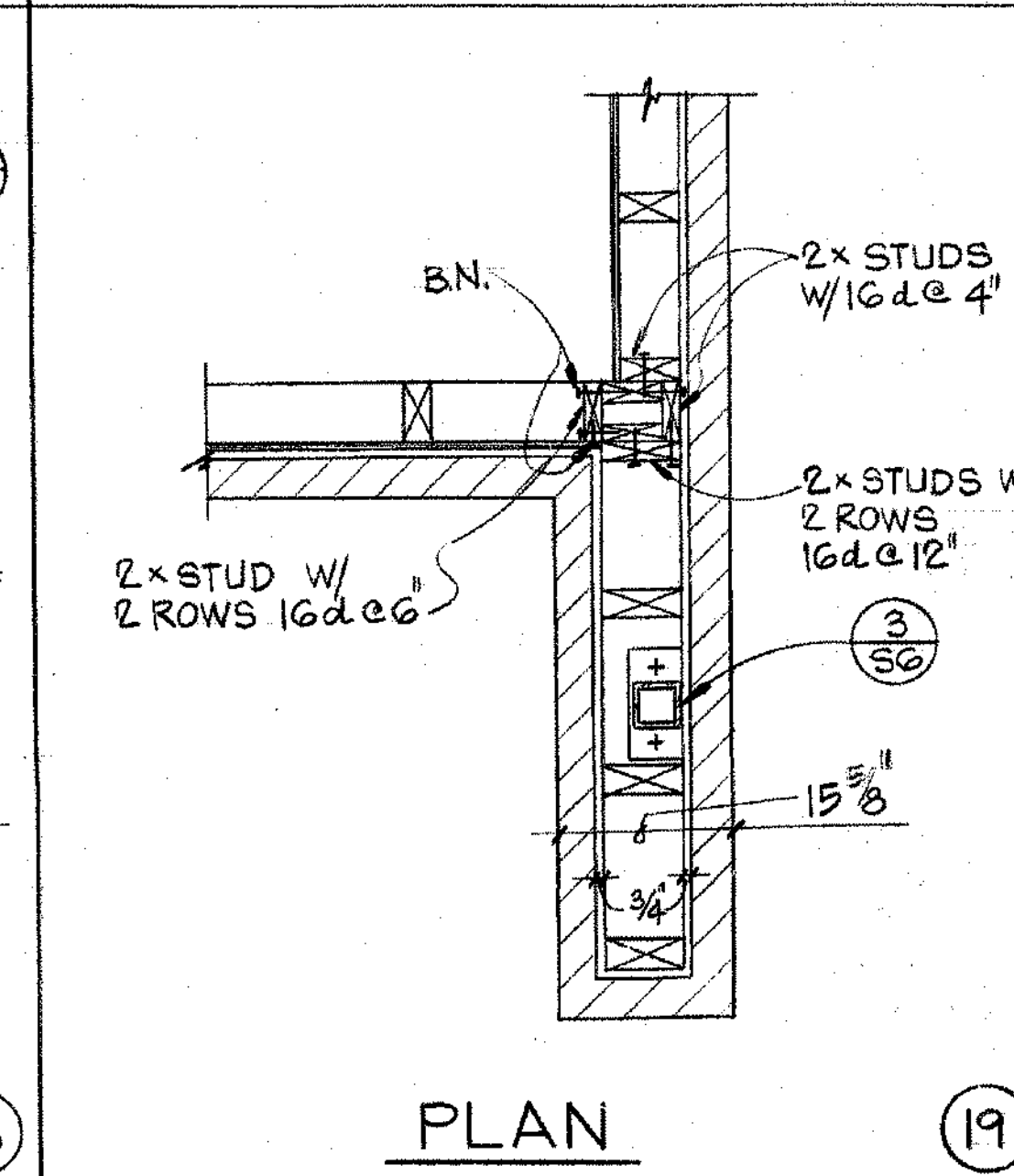
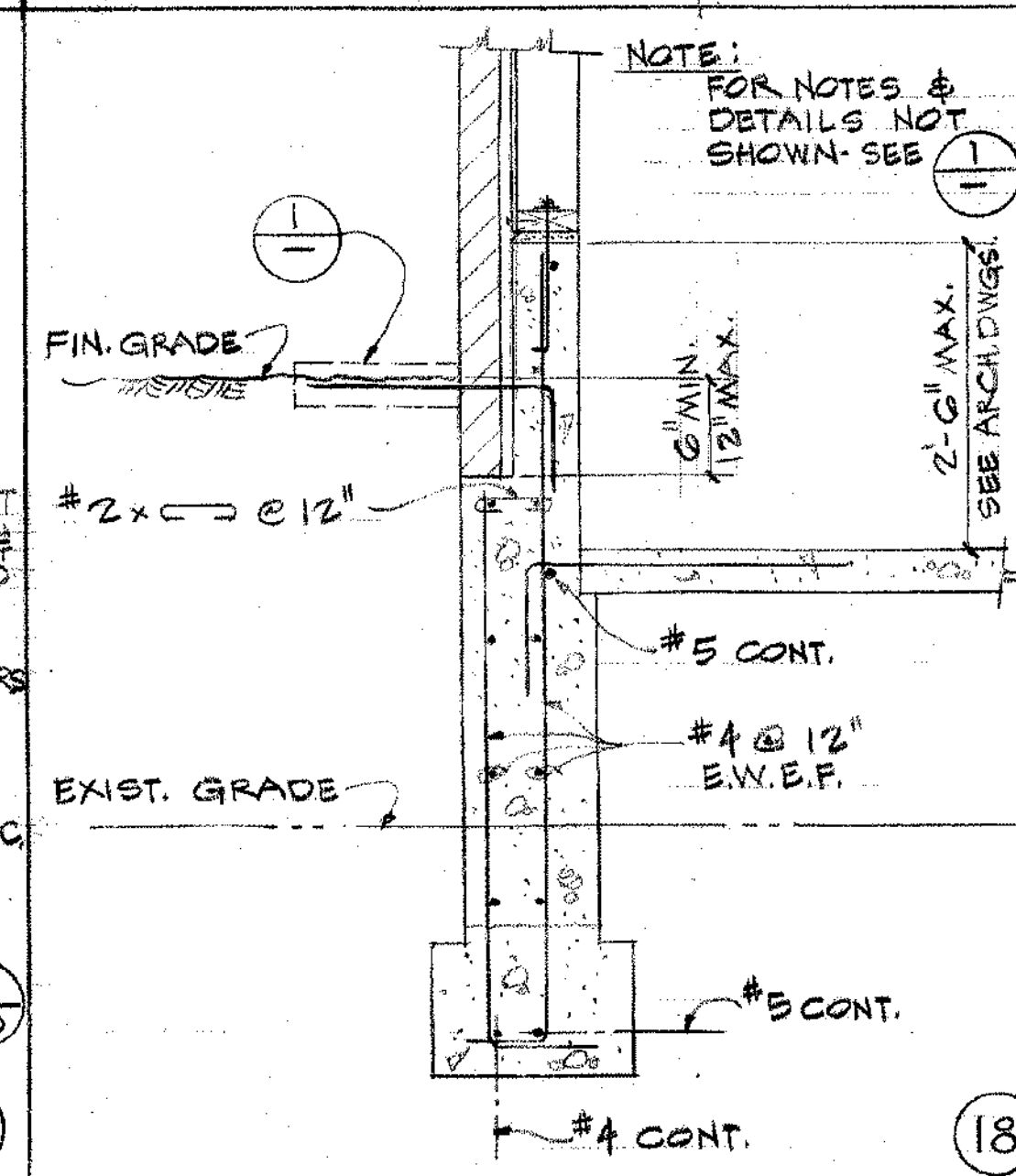
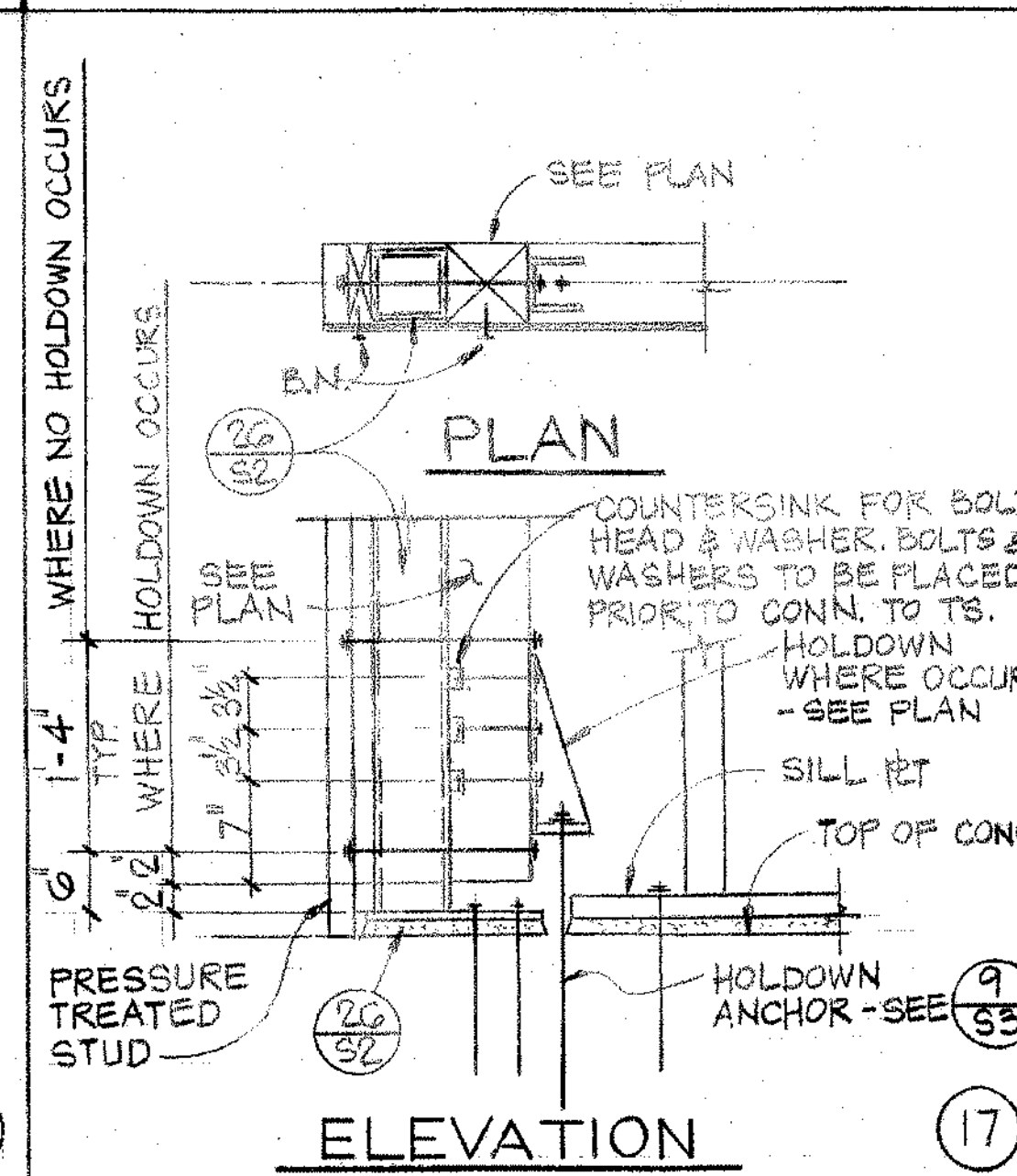






GRADE B.M. SCHEDULE

No.	SIZE	TOP BASE	BOT. BASE	TIES
1.	12	24	2-#6	#3 @ 16"
2.	16	24	2-#7	#3 @ 16"



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DRAWN: JOB NO. 1428

IMPERIAL VALLEY COLLEGE  
NURSING EDUCATION CENTER  
IMPERIAL COMMUNITY COLLEGE DISTRICT  
IMPERIAL, CALIFORNIA

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FOUNDATION DETAILS

SHEET 56 OF 38 SHEETS

