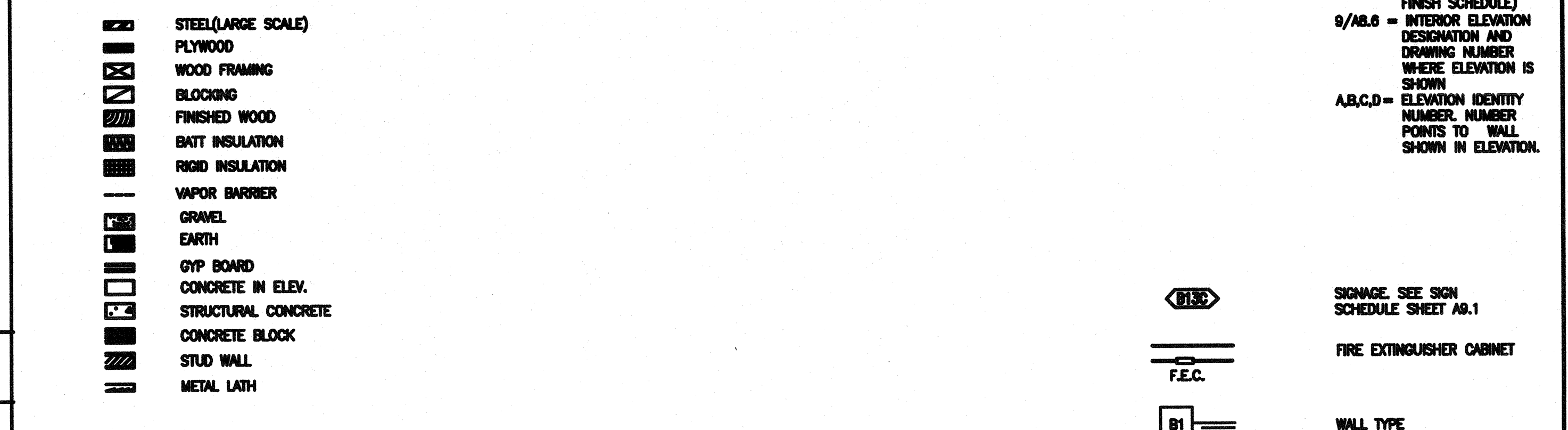
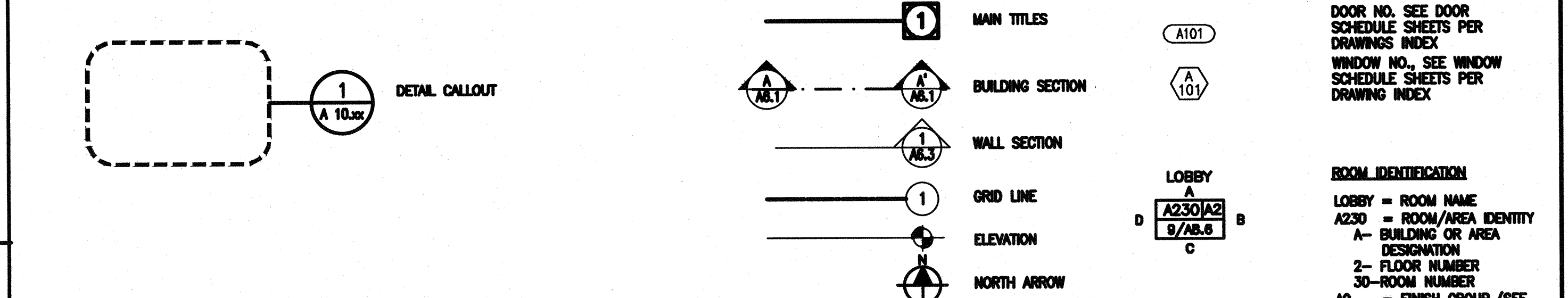




ARCHITECTURAL DRAWING SYMBOLS and ABBREVIATIONS

DRAWING LEGEND

SYMBOLS	CTG	COATING	GI	N	RL	VAR
& AND ANGLE	CTR CUTTING CUBIC FOOT CUBIC INCH CUSTOM CUBIC YARD	DR DRAIN DOUBLE DEMO DEMOLISH, DEMOLITION DEPT DEPARTMENT DET DETAIL DRINKING FOUNTAIN DHL DOUBLE HUNG DMA DIAMETER DIA DIFFUSER DIM DIMENSION DISP DISPENSER DIV DIVISION DMFP DAMP/PROOFING DMPT DOWNDRAFT DR DOOR DRB DRIBBOARD DRD DOOR LOWER DRLV DOWN/OUT DST DRY STANDPIPE DTL DRAWING TITLE DW DISHWASHER DWG DRAWING DWL DRAWER	GND GROUND GPC GYPSUM PLASTER CEILING GR LN GRADE LINE GR BM GRADE BEAM GR GRADE (ING) GRDB GARBAGE DISPOSER GSSB GYPSUM SHEATHING BOARD GSS GALVANIZED STEEL SHEET GST GLAZED STRUCTURAL TILE GRT GROUT GVL GRAVEL GYP GYPSUM	NORTH NA NOT APPLICABLE NA NOT NCOMBL NONCOMBUSTIBLE NE NEAR FACE NF NOT IN CONTRACT NBLB NON-LOAD BEARING NM NONMETALLIC NO NO NOM NOMINAL NR NOISE REDUCTION NSR NOISE REDUCTION COEFFICIENT NRCA NATIONAL ROOFING CONTRACTORS ASSOCIATION NS NEAR SIDE NTS NOT TO SCALE	ROOF LEADER RLG RAILING RM ROUND RO ROUND OPENING ROW RIGHT OF WAY RS ROUGH SAWS RFS RUBBER TILE FLOORING RFL ROOF FLASHING RV ROOF VENT RVL REVEAL RVS REVERSE (SIDE) RVT REVEAL RWD RAIN WATER LEADER	VARIES VBL VINYL BASE VCT VERTICAL VEST VESTIBULE VFB VINYL FACED ACOUSTIC TILE VF VERIFY IN FIELD VJ V-JOINT(ED) VNR VENUEZ VR VAPOR RETARDER VTR VENT THROUGH ROOF VINYL WALL COVERING



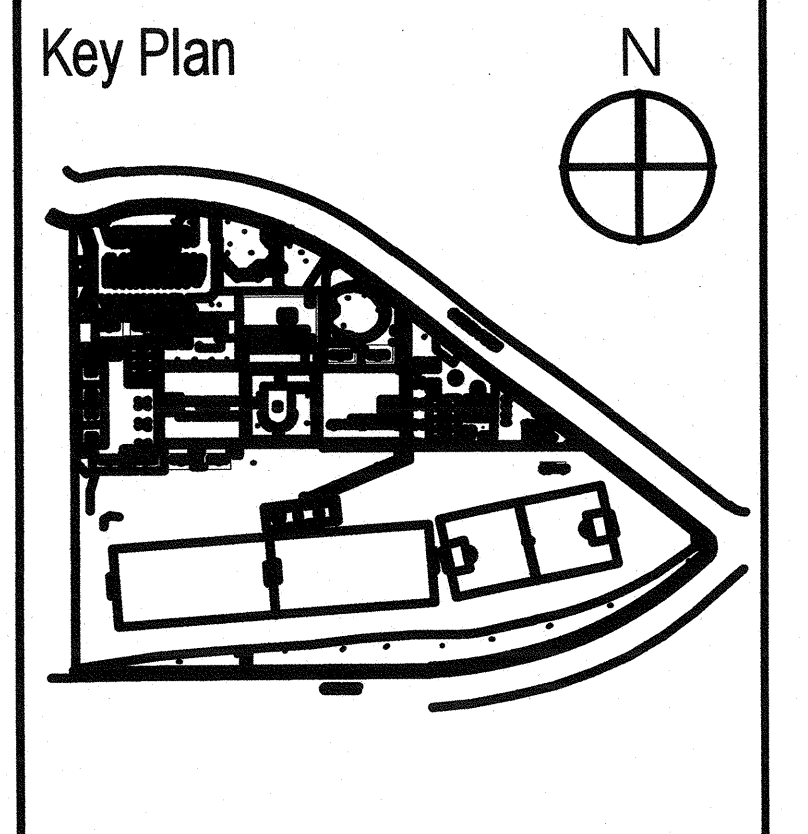
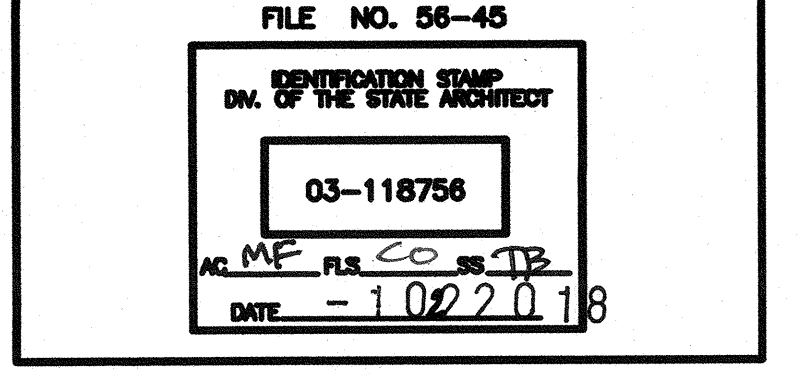
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ARCHITECT: [Signature]  
ENGINEER: [Signature]

SIGNAGE SEE SIGN SCHEDULE SHEET AB.1  
FIRE EXTINGUISHER CABINET  
WALL TYPE  
STUD WALLS SEE WALL TYPE LEGEND  
MATCHLINE

NO.	REMARKS	DATE

DRAMA STATUS:  
 SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 DSA PLAN CHECK  
 DSA BACK CHECK



BROOKSIDE ELEMENTARY ADMINISTRATION BUILDING  
OAK PARK UNIFIED SCHOOL DISTRICT  
165 N. SATINWOOD DRIVE OAK PARK CALIFORNIA 91301

ABBREVIATIONS & SYMBOLS  
Date: 11/06/2017 Drawing Number: AS NOTED  
Project Number: 17038  
Scale: A0.2

LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the FireLife Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 06-01.

PROJECT INFORMATION: School District/Owner: Oak Park Unified School District; Project Name/School: Brookside Elementary Administration Building; Project Address: 165 North Satinwood Drive, Oak Park, CA 91301; LOCAL FIRE AUTHORITY (LFA): LFA Agency Name: Ventura County Fire Protection District; LFA Reviewer Name: JENN DAVIS; Title: FIRE INSPECTOR; Work Email: JENN.DAVIS@VENTURA.CA.GOV; Work Telephone Number: 805-947-8922; I have reviewed and responded to the applicable items for this project as listed below. Note: Only sign this form when it is imaged onto the site plan. Access form is not acceptable to DSA. LFA Reviewer's Signature: [Signature] Date: 2/16/18; Review Key: "Y" = Complies with LFA requirements; "N" = Not approved (complete Section 8); "NA" = Not applicable to the project; "NR" = LFA elects not to review.

LEGEND

- EXISTING BUILDING
PROPERTY LINES
PATH OF TRAVEL (P.O.T.)
EXISTING P.O.T.
ACCESSIBLE PATH OF TRAVEL PER DSA APP# 04-114207
AREA OF MODERNIZATION WORK
AREA OF RESTROOM UPGRADE WORK
EXISTING TURF
EXISTING A.C. PAVING
EXISTING CONCRETE
(E) CHAIN LINK FENCE TO REMAIN
PROJECT SCOPE OF WORK/LIMIT OF WORK
ACCESSIBLE TOILET
ACCESSIBLE DRINKING FOUNTAIN PER DSA APP# 04-100606
EXISTING FIRE HYDRANT
EXISTING ACCESSIBLE BUILDING ENTRANCE
EXISTING ALARM SIREN (HORN)
EXISTING FIRE EXTINGUISHER WITHIN 75 FEET OF SHADE STRUCTURE

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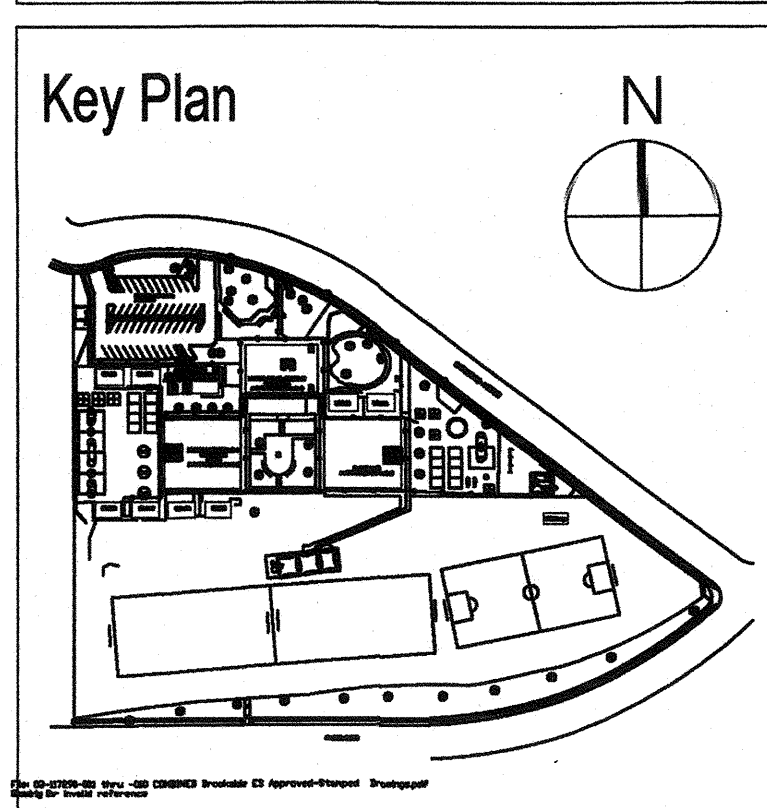
ARCHITECT: [Signature]
ENGINEER: [Signature]
LICENSED ARCHITECT
STATE OF CALIFORNIA

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Table with 3 columns: NO., REMARKS, DATE. Includes a REVISION HISTORY section.

- SCHEMATIC DESIGN
DESIGN DEVELOPMENT
DSA PLAN CHECK
DSA BACK CHECK

FILE NO. 56-45
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
DSM18030-13
03-18-2018
AC FLS CD SE TB
DATE 10/22/2018

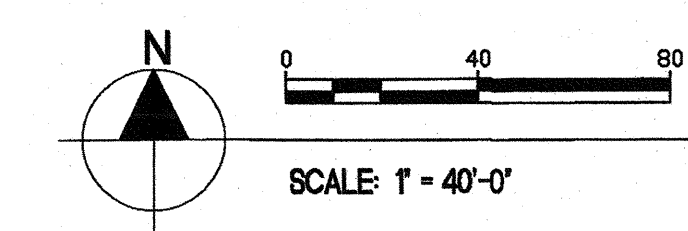
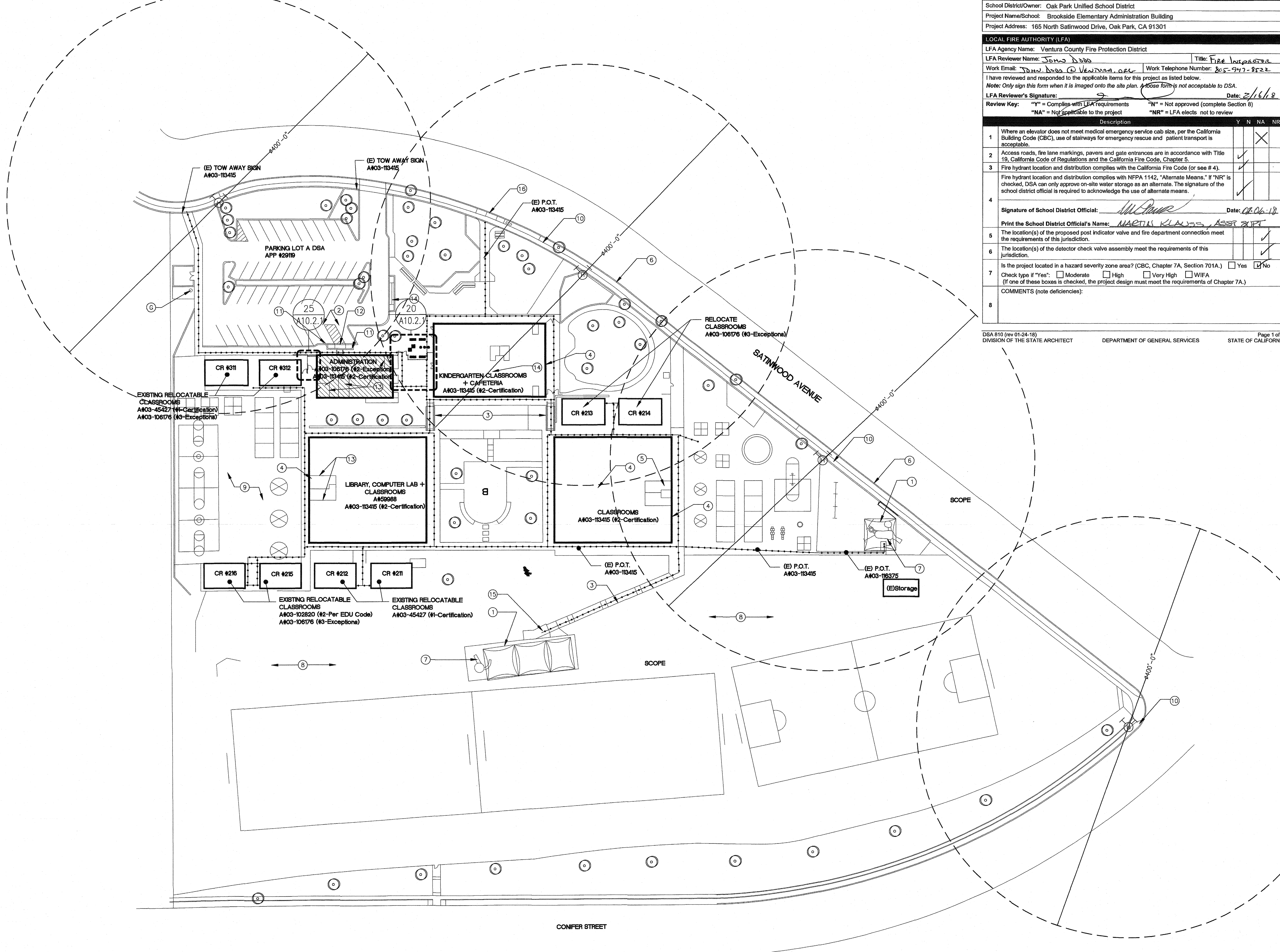


BROOKSIDE ELEMENTARY ADMINISTRATION BUILDING
OAK PARK UNIFIED SCHOOL DISTRICT

165 N. SATINWOOD DRIVE OAK PARK CALIFORNIA 91301

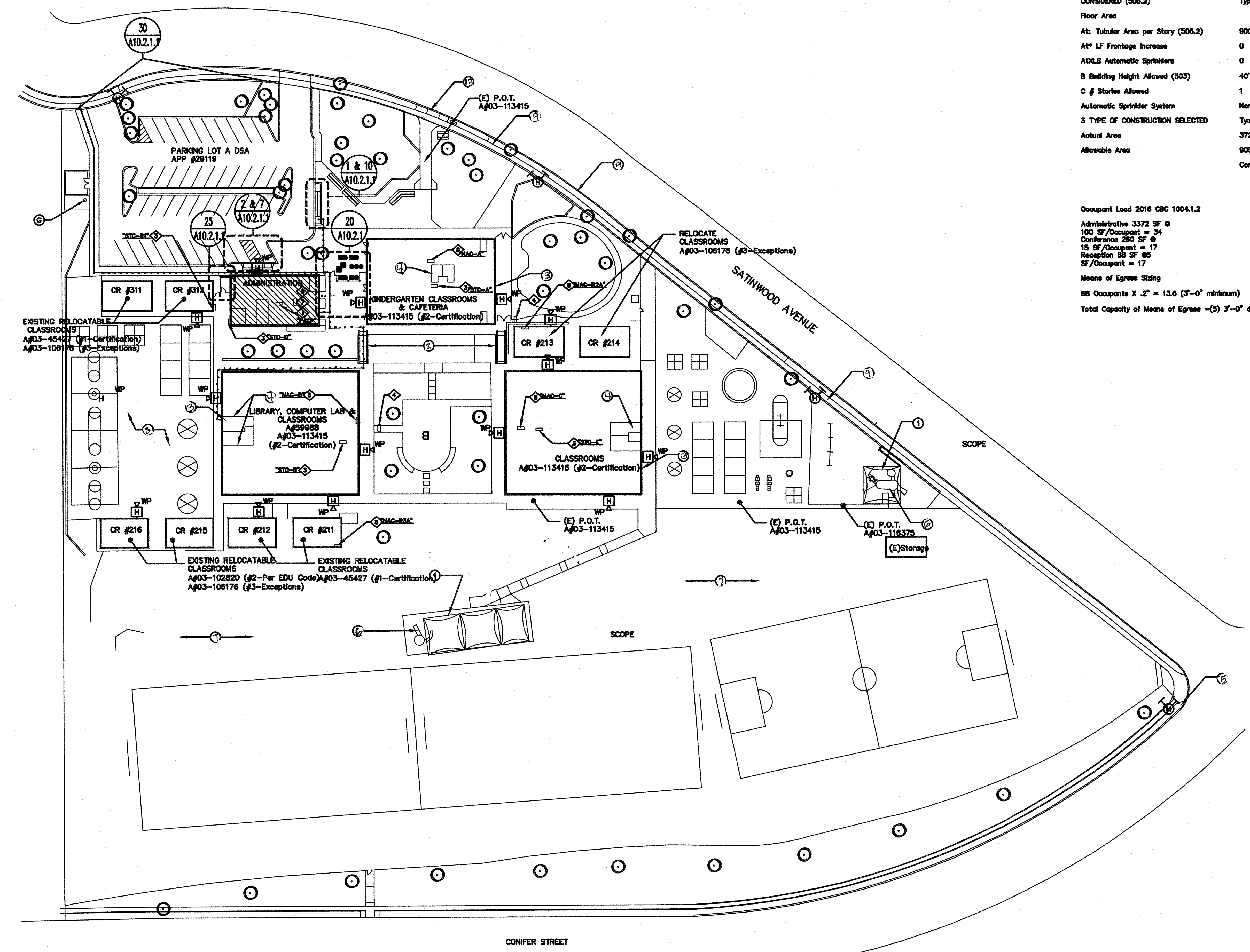
FIRE AUTHORITY SITE PLAN

Date: 11/06/2017
Drawing Number: A1.0
Scale: AS NOTED
Project Number: 17038



FIRE ACCESS PLAN 1

Refer to Bid Document Section 0900 Scope of Work for detailed construction information on each work area detailed below.



**BROOKSIDE ADMINISTRATION BUILDING CODE ANALYSIS Per 2016 CBC**

**1 BUILDING**

**A Building By Name**

Occupancy Group Table 3A **B**

First Floor **2880 SF**

Other Covered (roof o.h.) **840 SF**

Total Floor Area **3720 SF**

**B Building Height** **15'-4"**

**C No. Stories** **1**

**2 TYPE OF CONSTRUCTION**

CONSIDERED (506.2) **Type IV**

Floor Area

At: Tubular Area per Story (506.2) **9000 SF**

A\* LF Frontage Increase **0**

ADLS Automatic Sprinklers **0**

**B Building Height Allowed (503)** **40'**

**C # Stories Allowed** **1**

Automatic Sprinkler System **Non Sprinklered**

**3 TYPE OF CONSTRUCTION SELECTED** **Type V-B**

Actual Area **3720 SF**

Allowable Area **9000 SF**

Complies

**Occupant Load 2016 CBC 1004.1.2**

Administrative 3372 SF @ 100 SF/Occupant = 34

Conference 230 SF @ 15 SF/Occupant = 17

Reception 88 SF @ 5 SF/Occupant = 17

Means of Egress Stairs

86 Occupants X .2" = 13.6 (3"-0" minimum)

Total Capacity of Means of Egress - (5) 3'-0" doors = 15'-0" Complies

**LEGEND**

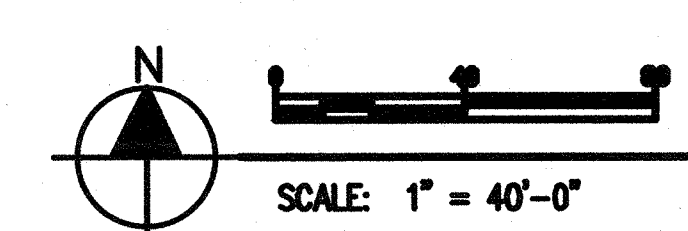
- EXISTING BUILDING
- PROPERTY LINES
- EXISTING P.O.T.
- PATH OF TRAVEL (P.O.T.)
- (E) P.O.T.
- ACCESSIBLE PATH OF TRAVEL
- AREA OF MODERNIZATION WORK
- AREA OF RESTROOM UPGRADE WORK
- EXISTING TURF
- EXISTING A.C. PAVING
- EXISTING CONCRETE
- PROJECT SCOPE OF WORK/ LIMIT OF WORK
- ACCESSIBLE TOILET
- WOMEN GIRLS UNISEX
- MEN BOYS
- ACCESSIBLE DRINKING FOUNTAIN
- EXISTING FIRE HYDRANT
- EXISTING ACCESSIBLE BUILDING ENTRANCE
- EXISTING ALARM SIREN (HORN)
- EXISTING FIRE EXTINGUISHER WITHIN 75 FEET OF SHADE STRUCTURE

**FIRE ALARM NOTES**

- MIN FIRE ALARM PANEL "FACE"
- APPROXIMATE LOCATION OF FIRE ALARM TERMINAL CABINET.
- APPROXIMATE LOCATION OF FIRE ALARM PULL BOX.
- FIRE ALARM PULL STATION IN RECEPTION AREA
- FIRE ALARM ANNUNCIATOR.
- FIRE ALARM EXTENDER (MAC) PANEL.

**KEY NOTES**

- EXISTING SHADE STRUCTURE, DRAWINGS A/04-113245.
- EXISTING ACCESSIBLE CONCRETE RAMP AND METAL RAILINGS (A/03-113415)
- EXISTING HIGH LOW DRINKING FOUNTAIN (A/03-113415)
- EXISTING ACCESSIBLE TOILET (A/03-113415)
- EXISTING FIRE HYDRANT
- EXISTING PLAYGROUND EQUIPMENT (DASHED)
- EXISTING TURF AREA
- EXISTING ASPHALT PLAYGROUND
- EXISTING PUBLIC SIDEWALK
- EXISTING ACCESSIBLE TOILET
- EXISTING LOADING RAMP AND ZONE.
- (a) LANDING AND PIP RUBBER ACCESS PAD IN PLAYGROUND
- EXISTING CURB RAMP (A/03-113415)



**SITE PLAN** 1

**BCA**

architecture  
planning  
interiors

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505 S. Market St.  
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[F] 408.588.3805  
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ARCHITECT	ENGINEER

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NO.	REMARKS	DATE

**REVISIONS**

NO.	DESCRIPTION	DATE

**KEY NOTES**

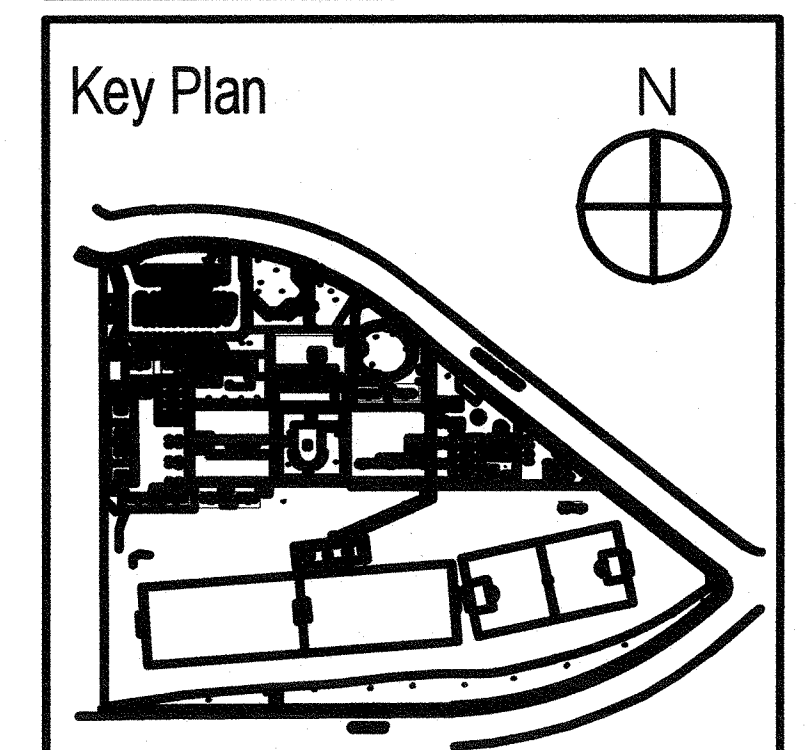
FILE NO. 56-45

DATE OF THE STATE ARCHITECT

03-118756

NO. MAP FILE NO. 20

DATE 10-2-2013

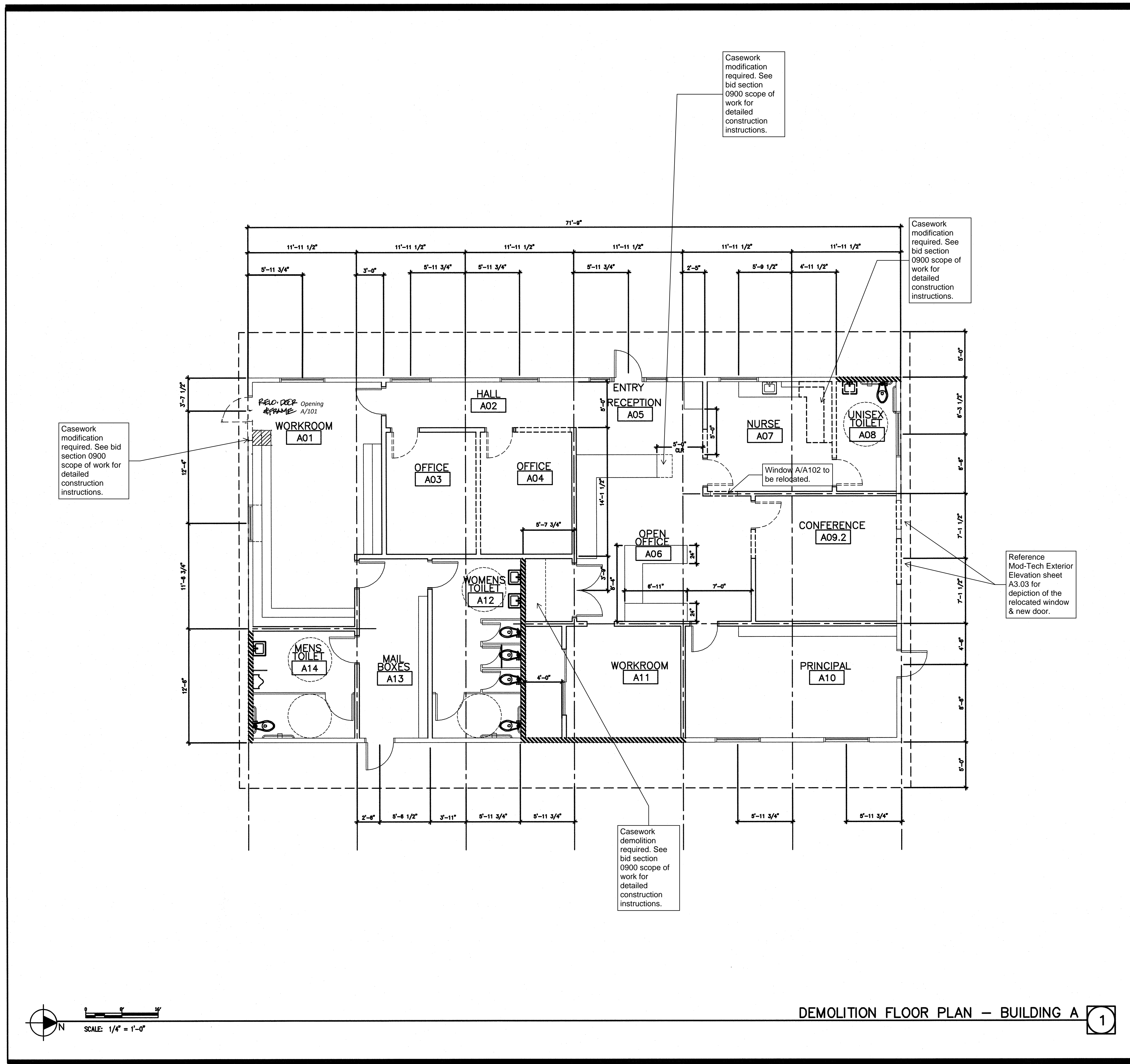


**BROOKSIDE ELEMENTARY ADMINISTRATION BUILDING**  
OAK PARK UNIFIED SCHOOL DISTRICT

165 N. SATINWOOD DRIVE OAK  
PARK CALIFORNIA 91301

**SITE PLAN**

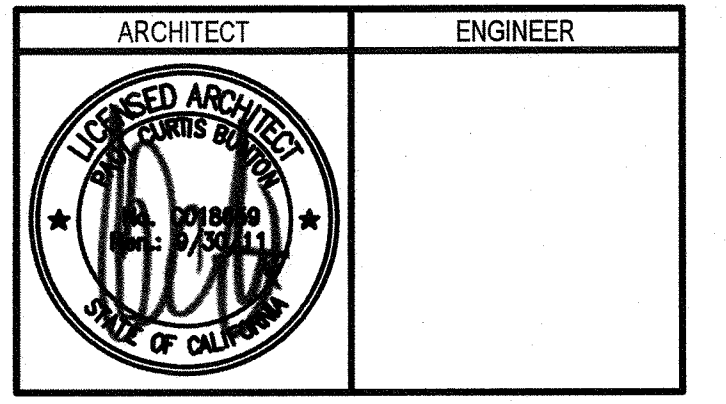
Date	11/06/2017	Drawing Number	
Scale	AS NOTED		A1.1
Project Number	17038		



**LEGEND**  
 - - - - DEMOLITION

**BCA**  
 architecture  
 planning  
 interiors

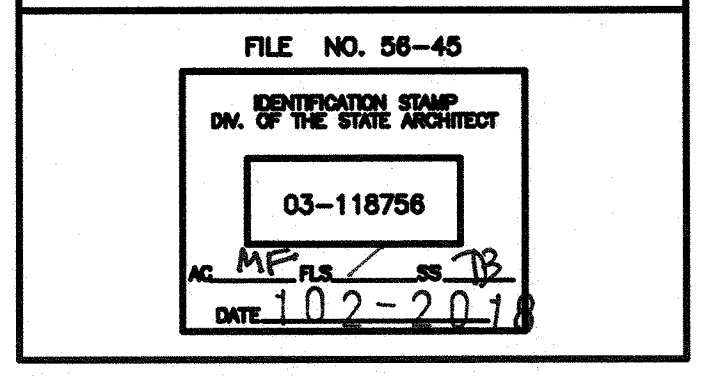
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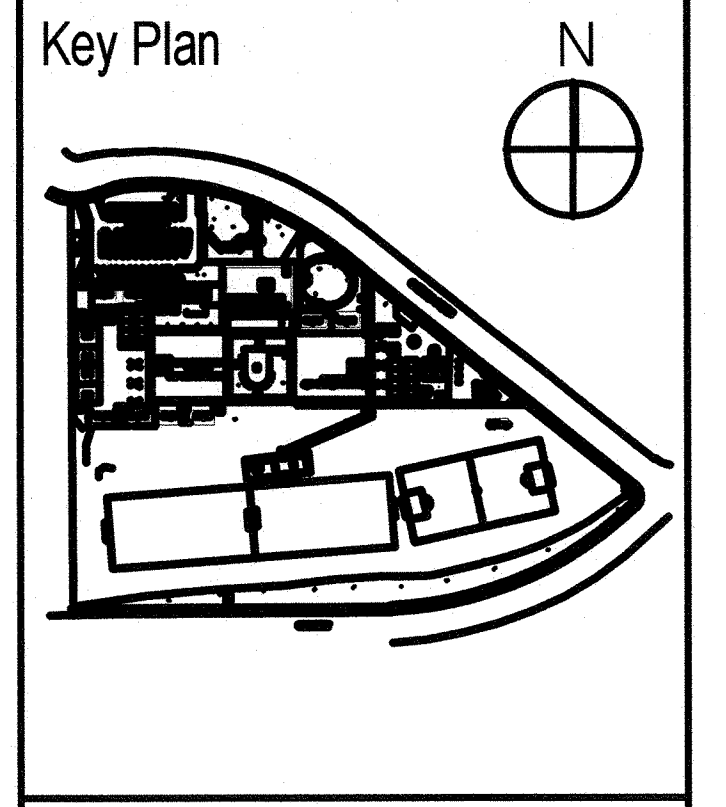
NO.	REMARKS	DATE

**DRAWING STATUS**  
 ○ SCHEMATIC DESIGN  
 ○ DESIGN DEVELOPMENT  
 ● DSA PLAN CHECK  
 ● DSA BACK CHECK



**GENERAL NOTES**

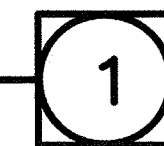
- ALL DIMENSIONS TO WALL ARE TO FACE OF STUD (F.O.S.) UNLESS NOTED OTHERWISE.
- ALL EXISTING ITEMS ARE TO REMAIN UNLESS NOTED OTHERWISE.
- STANDARD DOOR CLEARANCES ARE:  
 36" CLR. MIN.  
 18" CLR. ● INTERIOR DOORS  
 24" CLR. ● EXTERIOR DOORS  
 4" W.O.M.H.  
 48" CLR. MIN.  
 12" CLR. WHERE FLOOR IS EQUIPPED WITH A MATCH AND A CLOSER
- ALL FLOOR, WALL, BASE, CEILING, AND/OR CASWORK AFFECTED BY DEMOLITION ARE TO BE RE-FINISHED, FINISH TO MATCH NEW OR EXISTING ADJACENT MATERIAL.
- REMOVE EXISTING CEILING TILES AS REQUIRED TO UPGRADE CEILING SUSPENSION. REPLACE ANY BROKEN TILES WITH TILE TO MATCH.
- CONTRACTOR TO VERIFY (C) DOORS TO HAVE SLB. OPERATING PRESSURE. ADJUST OPERATING PRESSURE TO SLB. AS REQUIRED.

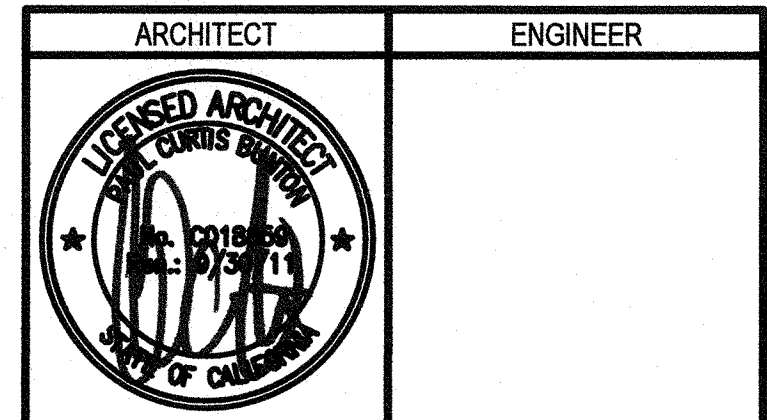


**BROOKSIDE ELEMENTARY ADMINISTRATION BUILDING**  
 OAK PARK UNIFIED SCHOOL DISTRICT  
 165 N. SATINWOOD DRIVE OAK PARK CALIFORNIA 91301  
**DEMOLITION FLOOR PLAN BUILDING A**

Date: 11/06/2017  
 Scale: AS NOTED  
 Project Number: 17038  
 Drawing Number: AD2.1

**DEMOLITION FLOOR PLAN – BUILDING A**



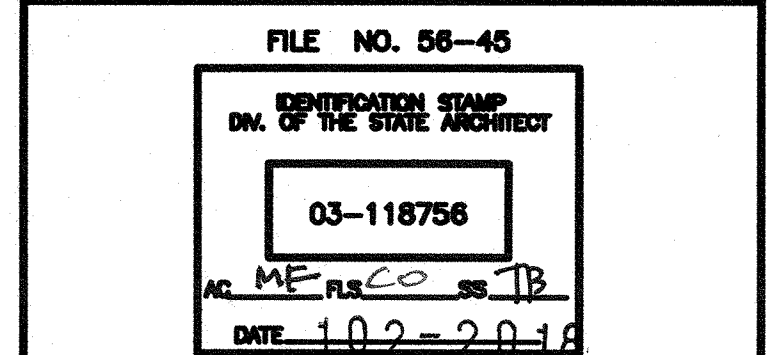


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NO.	REMARKS	DATE

- SCHEMATIC DESIGN** \_\_\_\_\_ DATE \_\_\_\_\_  
**DESIGN DEVELOPMENT** \_\_\_\_\_  
**DSA PLAN CHECK** \_\_\_\_\_  
**DSA BACK CHECK** \_\_\_\_\_



### BROOKSIDE ELEMENTARY ADMINISTRATION BUILDING

OAK PARK UNIFIED SCHOOL DISTRICT

165 N. SATINWOOD DRIVE OAK  
PARK CALIFORNIA 91301

### FLOOR PLAN BUILDING A

#### LEGEND

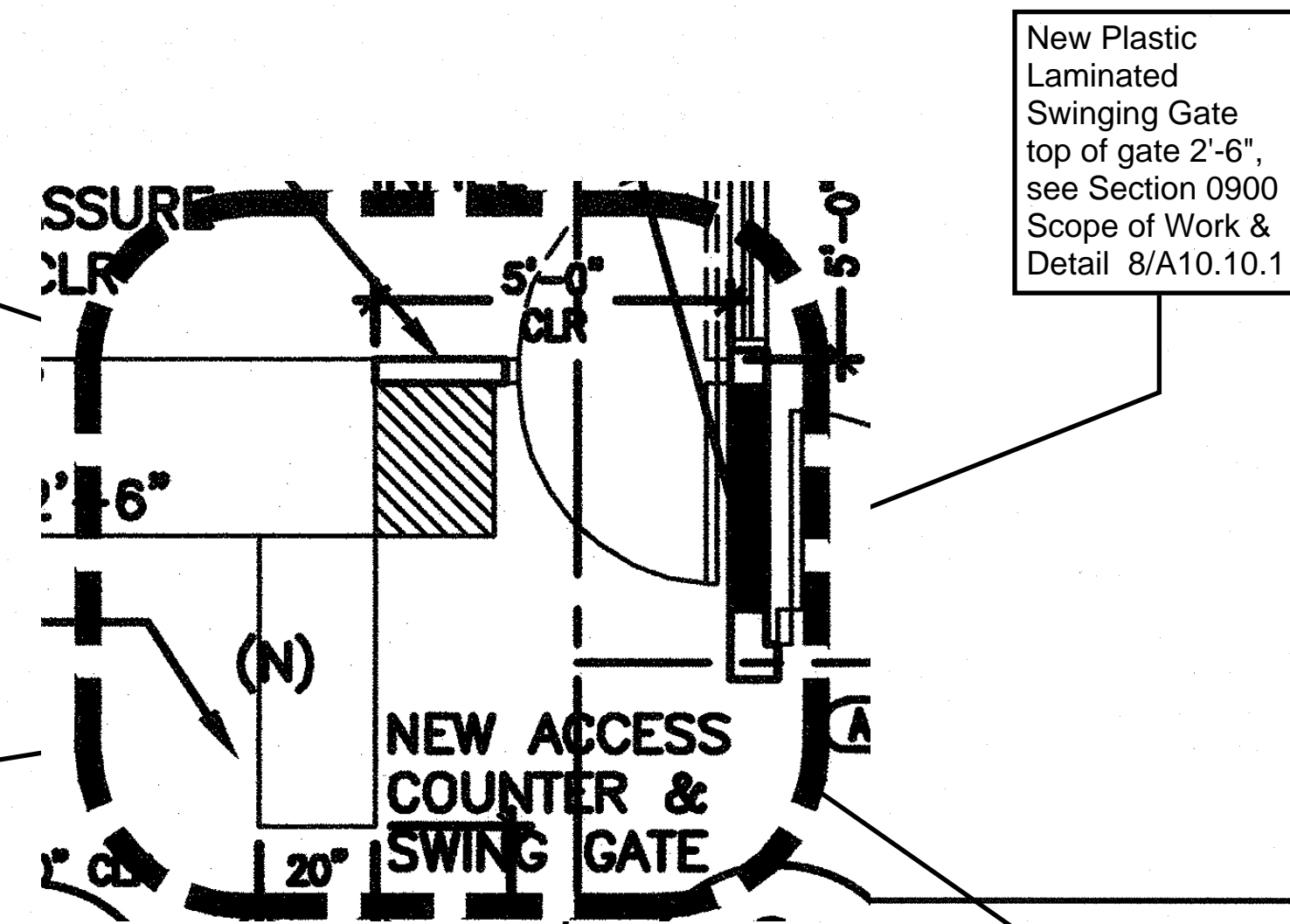
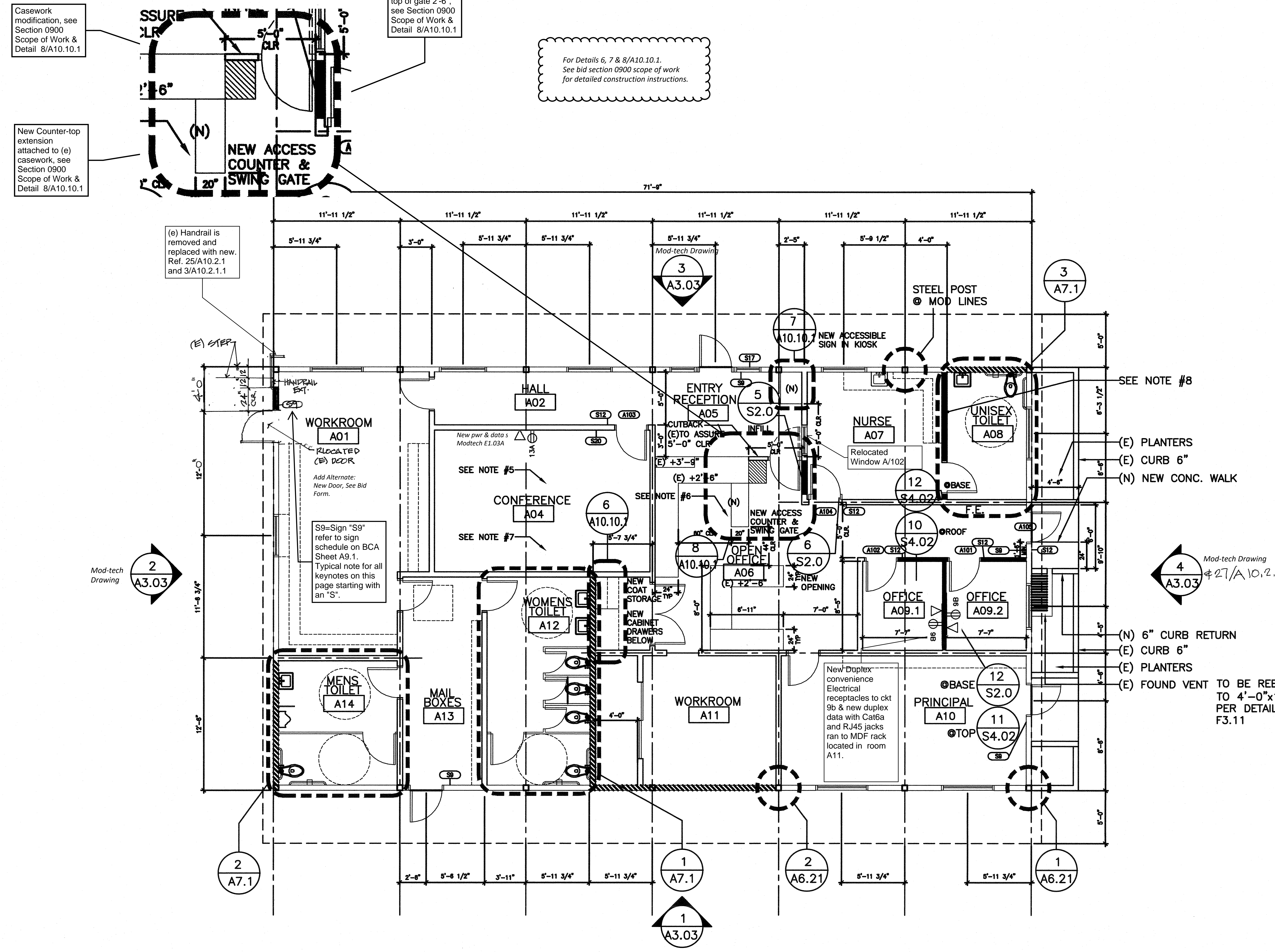
- STANDARD 2x4 WALL (E)
- 2x8 WALL (E)
- NEW 2x4 WALL

#### NOTES

- SEE MODTECH S4.02 FOR WALL FRAMING DETAILS.
- SEE MODTECH P1.04 FOR ENLARGED RESTROOMS PLAN AND DETAILS.
- SEE MODTECH S4.01 FOR DOOR AND WINDOW FRAMING DETAILS.
- FOR INTERIOR NON BEARING WALL CONN. TO STRUCTURE SEE 10, 11, 12, 14 AND 15/S4.02.
- REFER TO CONFERENCE A04 AND PROVIDE A FLOOR BOX WITH POWER, DATA AND AV CENTERED BOTH WAYS IN ROOM. PROVIDE FROM CIRCUITS ABANDONED IN REMOVE WALL.
- REFER TO OPEN OFFICE A06 AND PROVIDE A FLOOR BOX WITH DATA AND POWER UNDER NEW COUNTER. RETURN FROM CLOSEST AVAILABLE CIRCUITS.
- TWO ASSISTED LISTENING DEVICES SHALL BE MAINTAINED IN CONFERENCE ROOM A04.
- RELOCATED WALL AND SHORTENED CABINET 3/A7.1 FOR RESTROOM CLEARANCE REQUIRED.

#### GENERAL NOTES

- ALL DIMENSIONS TO WALL ARE TO FACE OF STUD (F.O.S.) UNLESS NOTED OTHERWISE.
- ALL EXISTING ITEMS ARE TO REMAIN UNLESS NOTED OTHERWISE.
- STANDARD DOOR CLEARANCES ARE:
- ALL FLOOR, WALL, BASE, CEILING, AND/OR CASWORK AFFECTED BY DEMOLITION ARE TO BE RE-FINISHED. FINISH TO MATCH NEW OR EXISTING ADJACENT MATERIAL.
- REMOVE (E) CEILING TILE. PREPARE EXISTING CEILING GRID FOR INSTALLATION OF NEW CEILING TILES.
- CONTRACTOR TO VERIFY (E) DOORS TO HAVE SUB. OPERATING PRESSURE. ADJUST OPERATING PRESSURE TO SUBS. AS REQUIRED.



For Details 6, 7 & 8/A10.10.1.  
See bid section 0900 scope of work for detailed construction instructions.

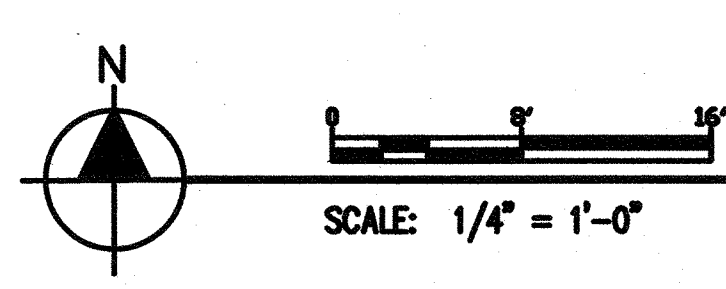
Casework modification, see Section 0900 Scope of Work & Detail 8/A10.10.1

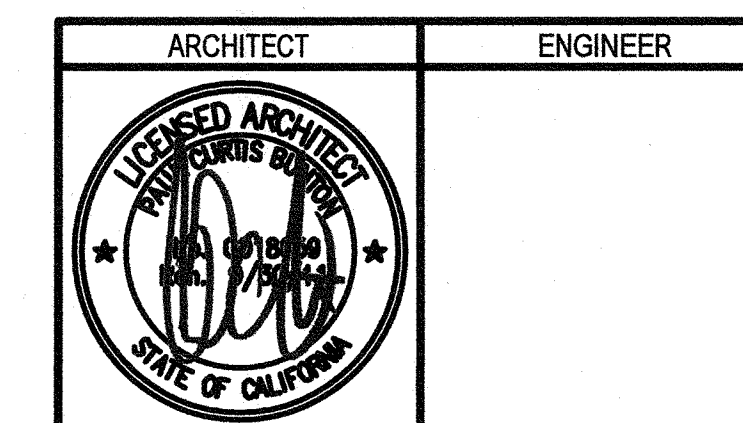
(e) Handrail is removed and replaced with new. Ref. 25/A10.2.1 and 3/A10.2.1.1

Mod-tech Drawing  
2  
A3.03

Mod-tech Drawing  
4  
A3.03  
# 27/A 10.2.1

Mod-tech Drawing  
1  
A3.03



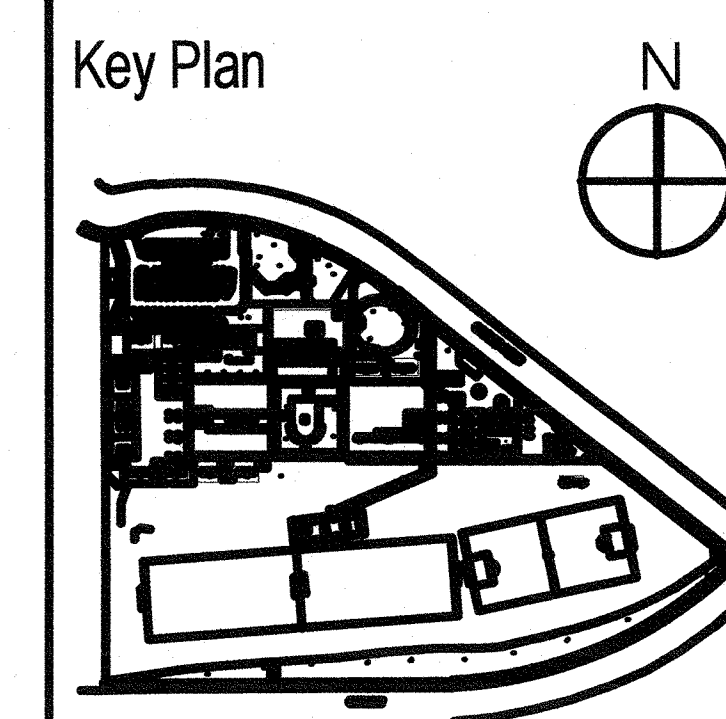
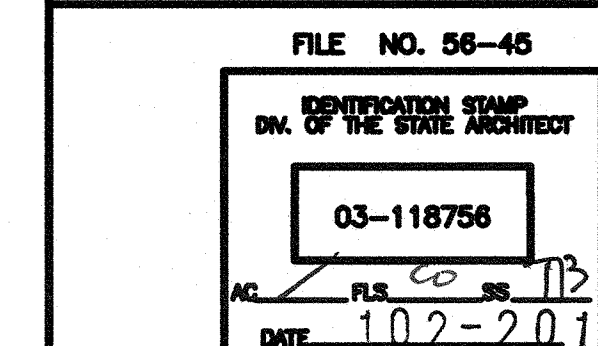


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### CEILING LEGEND

■ LIGHT TUBE 36" PER A10.9.1.1  
□ 21"

- DRAWING STATUS**
- SCHEMATIC DESIGN
  - DESIGN DEVELOPMENT
  - DSA PLAN CHECK
  - DSA BACK CHECK



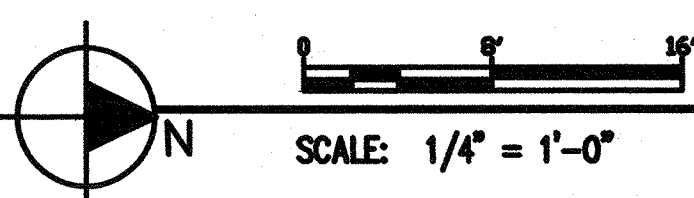
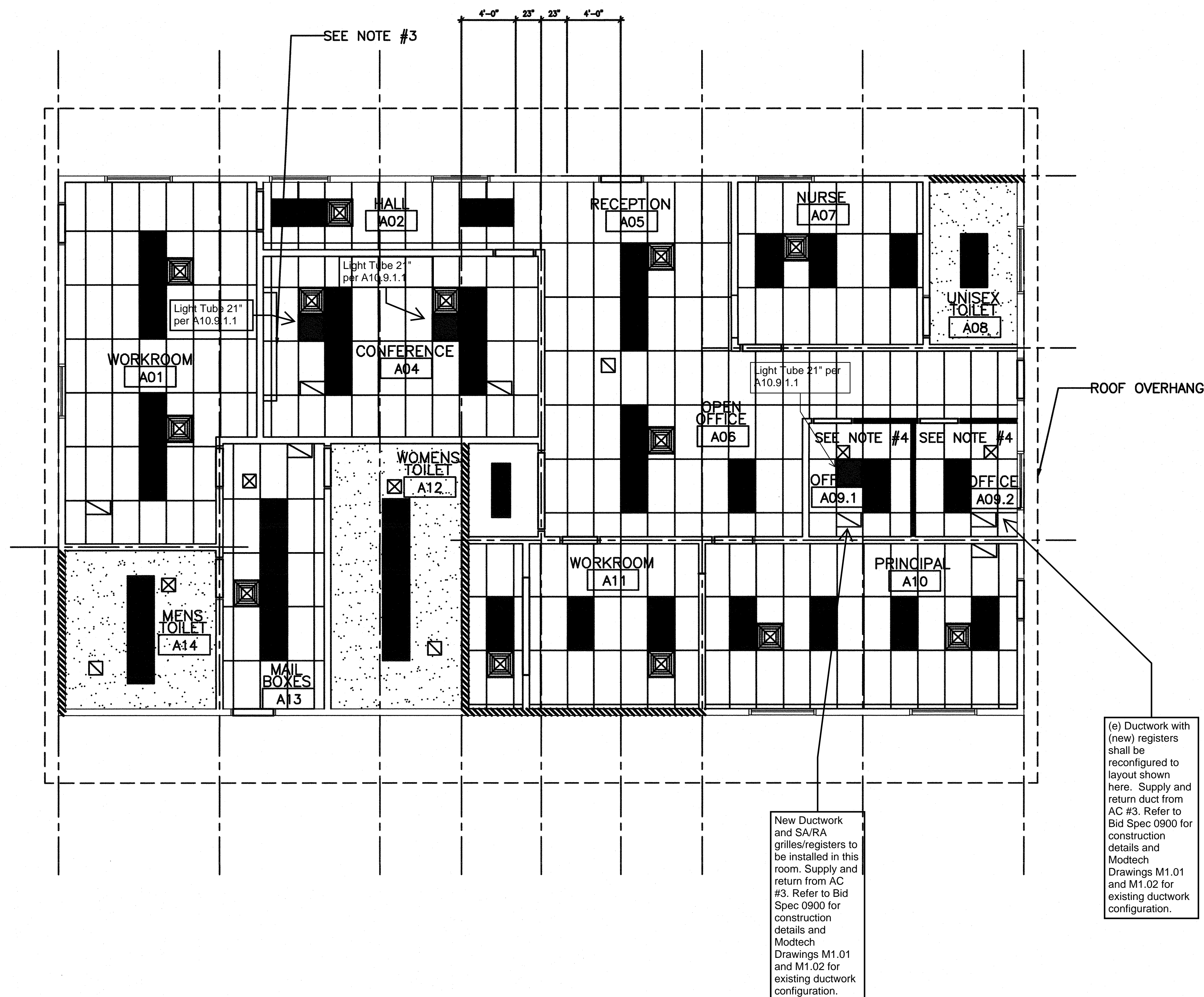
**BROOKSIDE ELEMENTARY ADMINISTRATION BUILDING**  
OAK PARK UNIFIED SCHOOL DISTRICT

165 N. SATINWOOD DRIVE OAK  
PARK CALIFORNIA 91301

REFLECTED CEILING PLAN  
BUILDING A

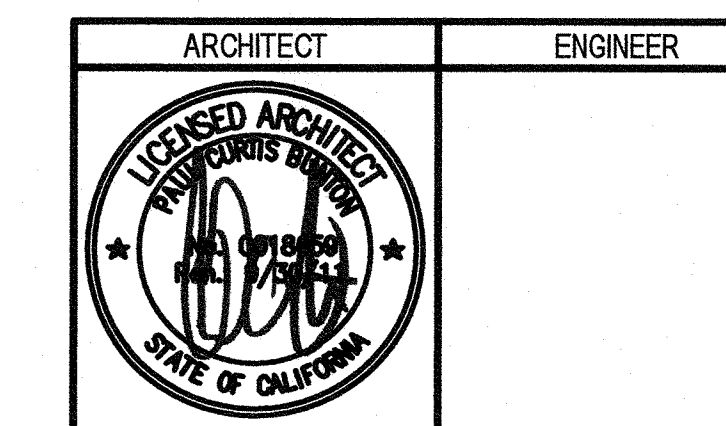
Date: 11/06/2017  
Scale: AS NOTED  
Project Number: 17038  
Drawing Number: A3.1

- NOTES**
- EXISTING SUSPENDED CEILING TO BE UPGRADED TO COMPLY WITH 2016 CBC PER A10.9.1 UPGRADES TO INCLUDE ADDITIONAL COMPRESSION POST AND HANGER WIRES TO MEET ALL REQUIREMENTS PER A10.9.1
  - COMPRESSION POST TO BE ADDED TO MAINTAIN MAXIMUM AREA OF 8'-0" x 12'-0". PER 4/A10.9.1
  - PROVIDE 8'-0" MOTORIZED PROJECTION SCREEN AT 7'-6" A.F.F. PROVIDE BACKING PER 2/A10.10.1 PROVIDE POWER FROM NEAREST AVAILABLE CIRCUIT SWITCH TO BE ON WALL ADJACENT DOOR. CENTER SCREEN ON WALL.
  - SPLIT SUPPLY AND RETURN DUCT TO SERVE TWO OFFICES.
  - REPLACE ALL CEILING TILES DAMAGE DURING CONSTRUCTION WITH MATCHING TILE.



## EXISTING REFLECTED CEILING PLAN - BUILDING A

1



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### KEYED NOTES

- 13 (E) 4 DMC BUILT-UP ROOFING (OPTIONAL) OVER 3/4" CDX PLYWOOD CLASS A ROOFING SYSTEM
- 15 (E) MODEL LINE (M)
- 16 (E) RIDGELINE
- 17 (E) 3" ROOF DRAIN W/ RECEPTOR PAN
- 18 (E) PARAPET
- 19 (E) ROOF MOUNTED HVAC UNIT

### NOTES

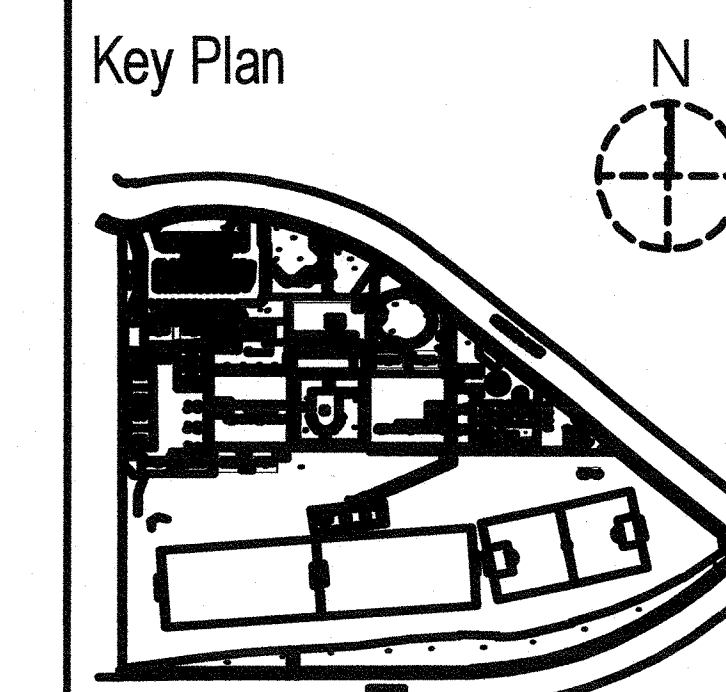
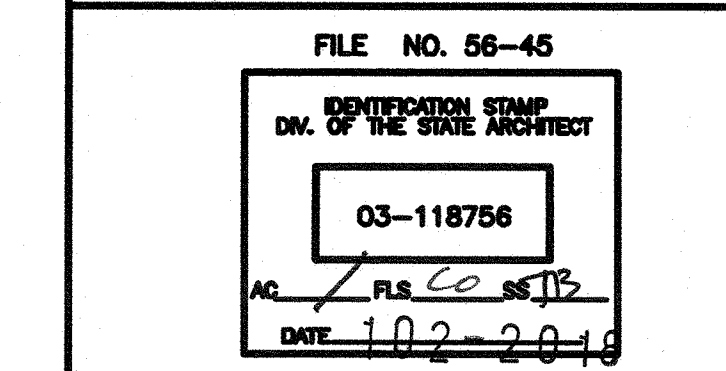
1. ALL ROOFING AND ROOF ACCESSORIES REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND. DISTRICT'S ROOF WARRANTY SHALL BE MAINTAINED.

### LEGEND

■ LIGHT TUBE 1" PER A10.9.1.1  
21"

NO.	REMARKS	DATE

DATE
SCHEMATIC DESIGN -
DESIGN DEVELOPMENT -
DSA PLAN CHECK -
DSA BACK CHECK -

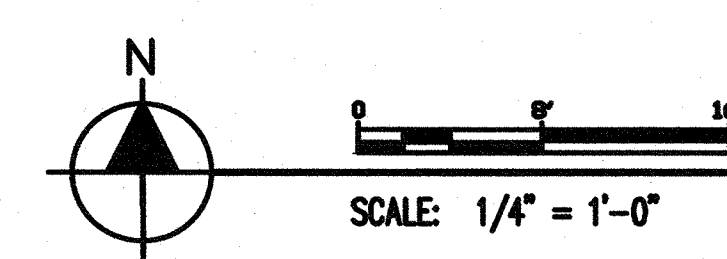
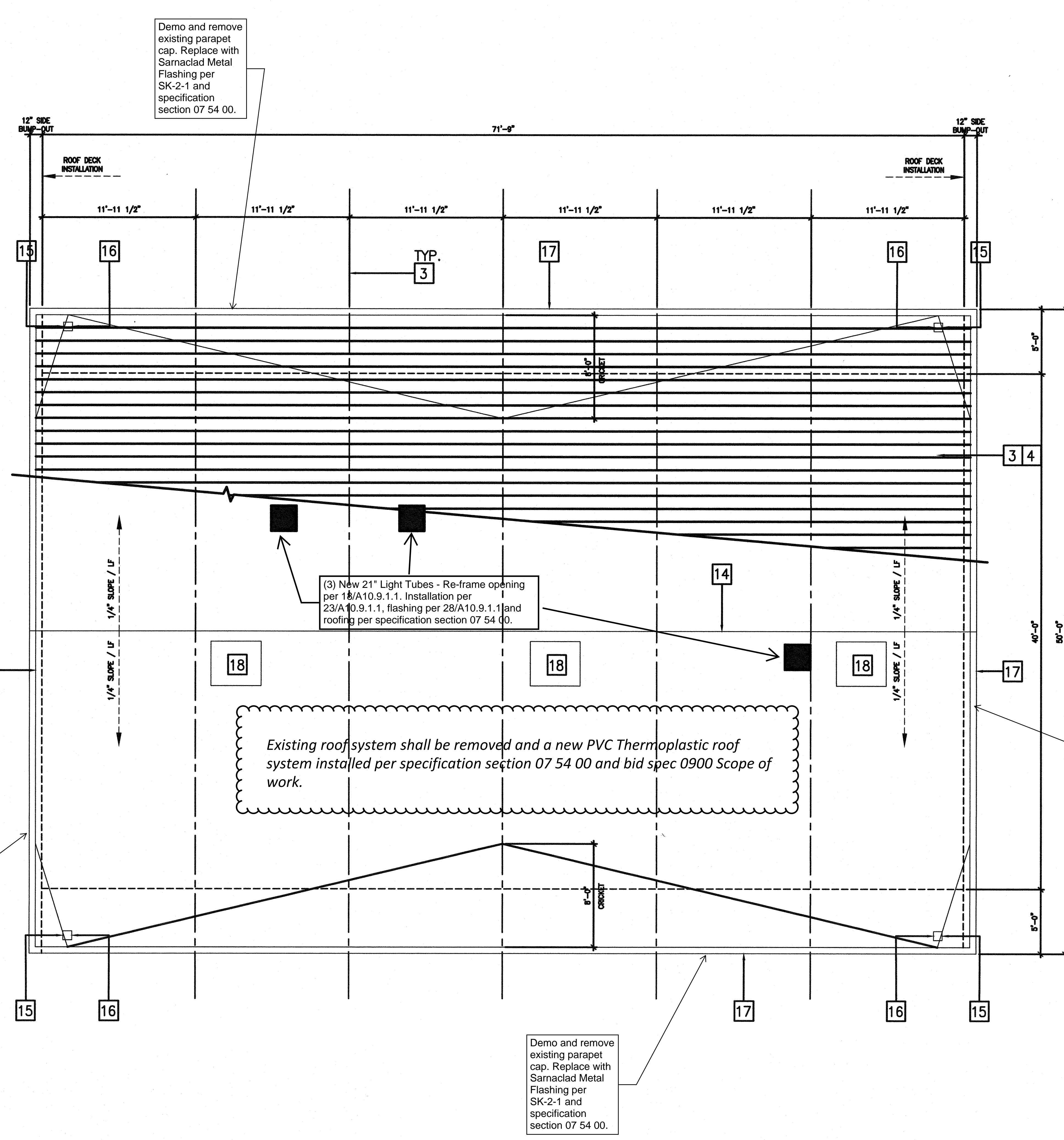


BROOKSIDE ELEMENTARY  
ADMINISTRATION BUILDING  
OAK PARK UNIFIED SCHOOL  
DISTRICT

165 N. SATINWOOD DRIVE OAK  
PARK CALIFORNIA 91301

### ROOF PLAN BUILDING A

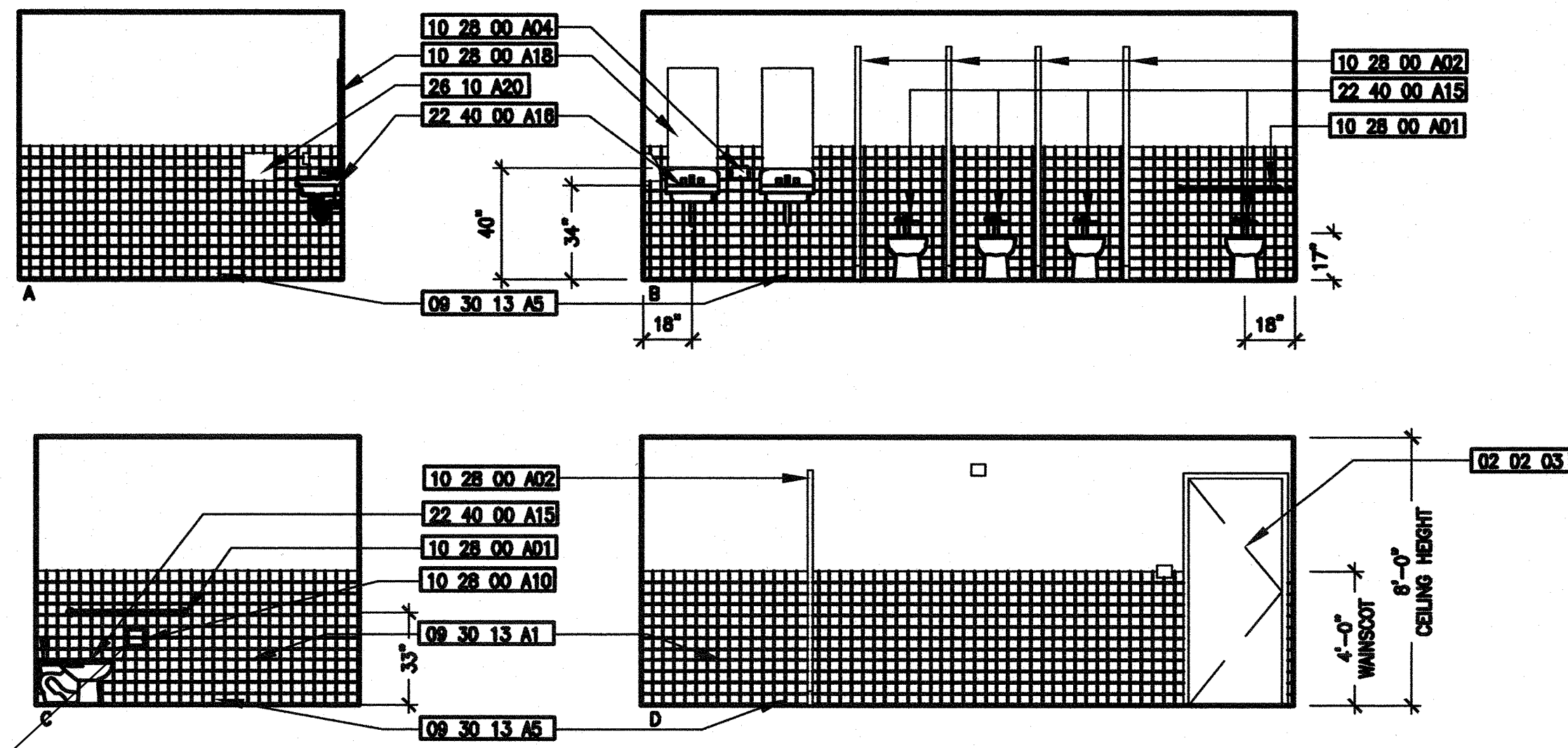
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Scale: AS NOTED  
Project Number: 17038  
Drawing Number: A4.1



### ROOF PLAN - BUILDING A

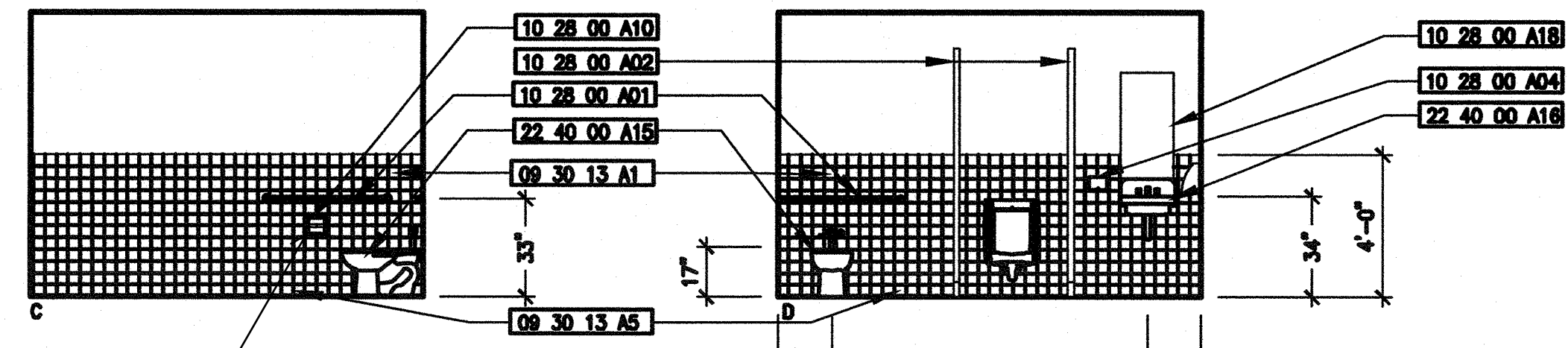
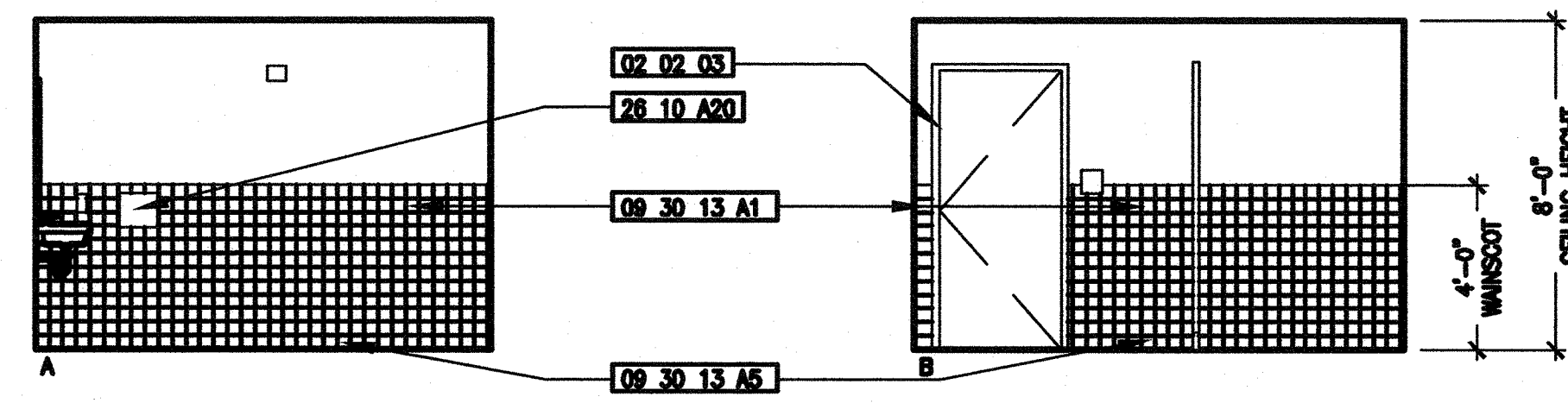
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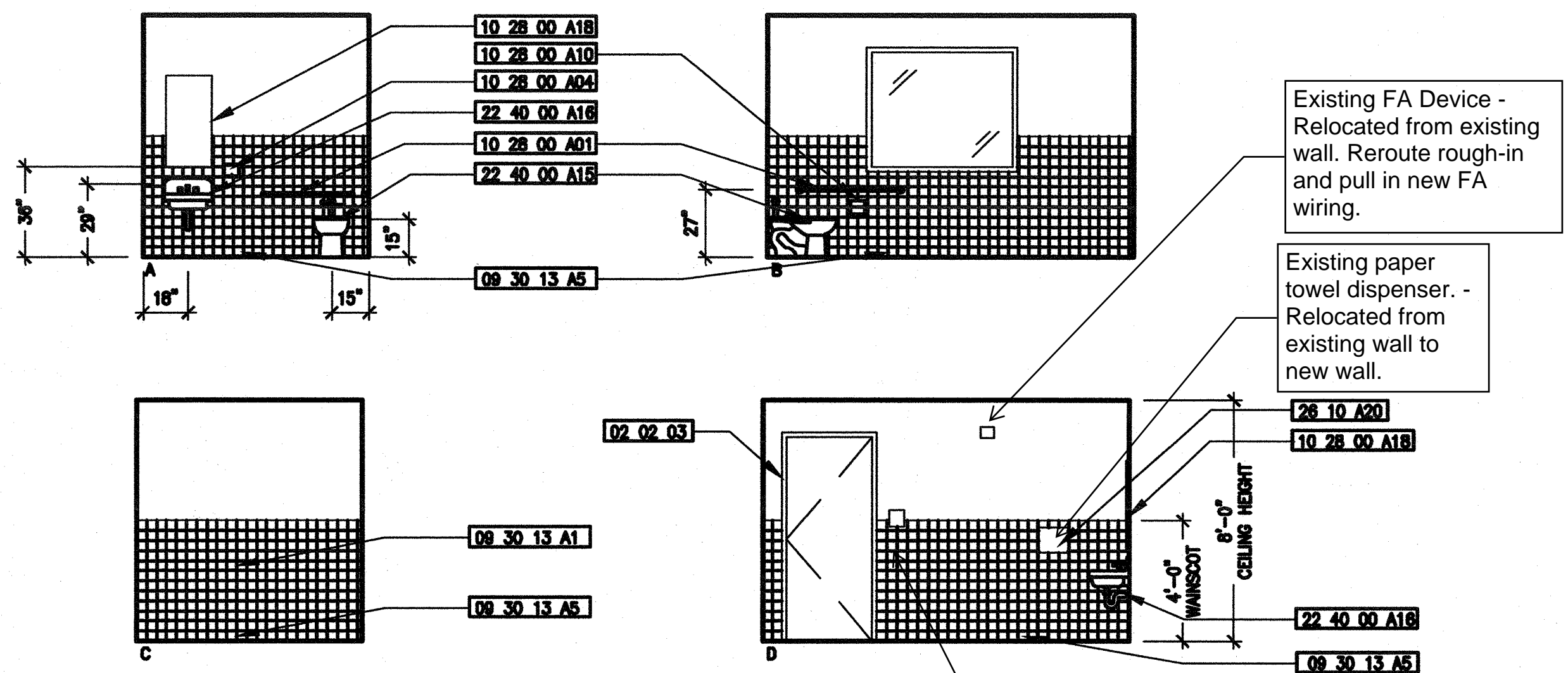
New toilet tissue dispenser. Perform soft demolition, modify framing and install new tile. Refer to bid specification section 0900 Scope of Work for dispenser model number and detailed construction information

**WOMENS RESTROOM INTERIOR ELEVATIONS** 4  
SCALE: 1/4" = 1'-0"



New toilet tissue dispenser. Perform soft demolition, modify framing and install new tile. Refer to bid specification section 0900 Scope of Work for dispenser model number and detailed construction information

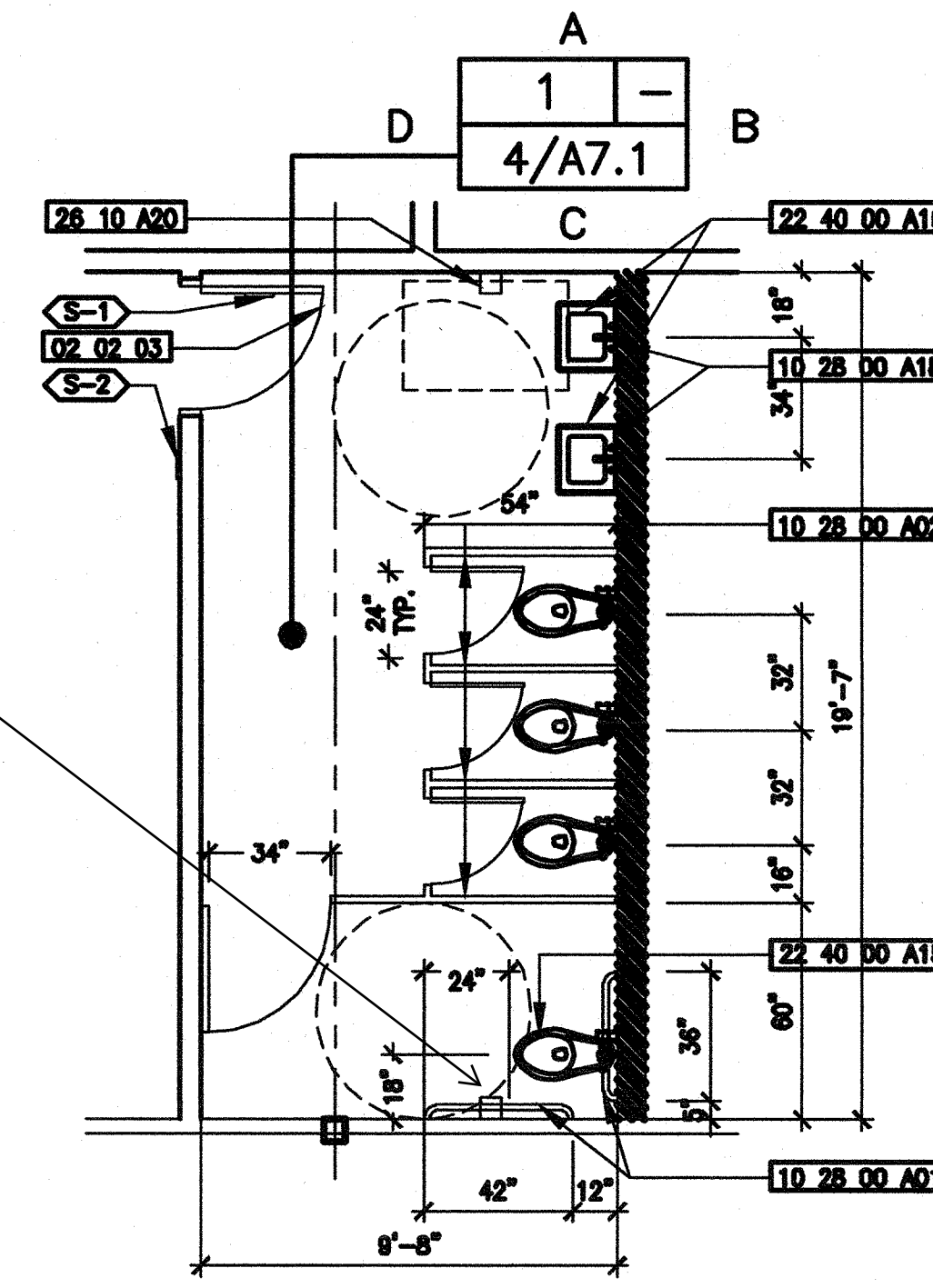
**MENS RESTROOM INTERIOR ELEVATIONS** 5  
SCALE: 1/4" = 1'-0"



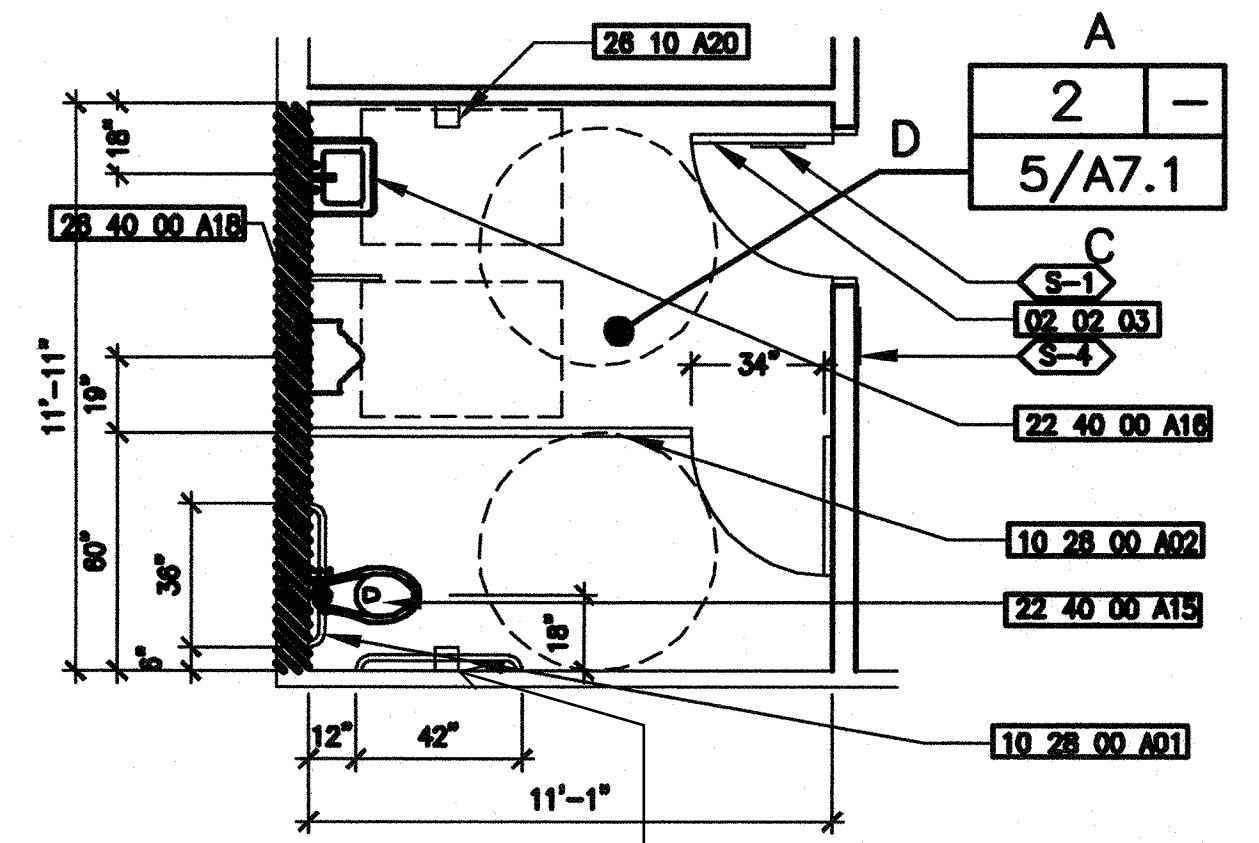
Light Switch-Relocate switch, reroute rough-in and pull in new wiring for switch and light fixtures.

**UNISEX RESTROOM INTERIOR ELEVATIONS** 6  
SCALE: 1/4" = 1'-0"

New toilet tissue dispenser. Perform soft demolition, modify framing and install new tile. Refer to bid specification section 0900 Scope of Work for dispenser model number and detailed construction information

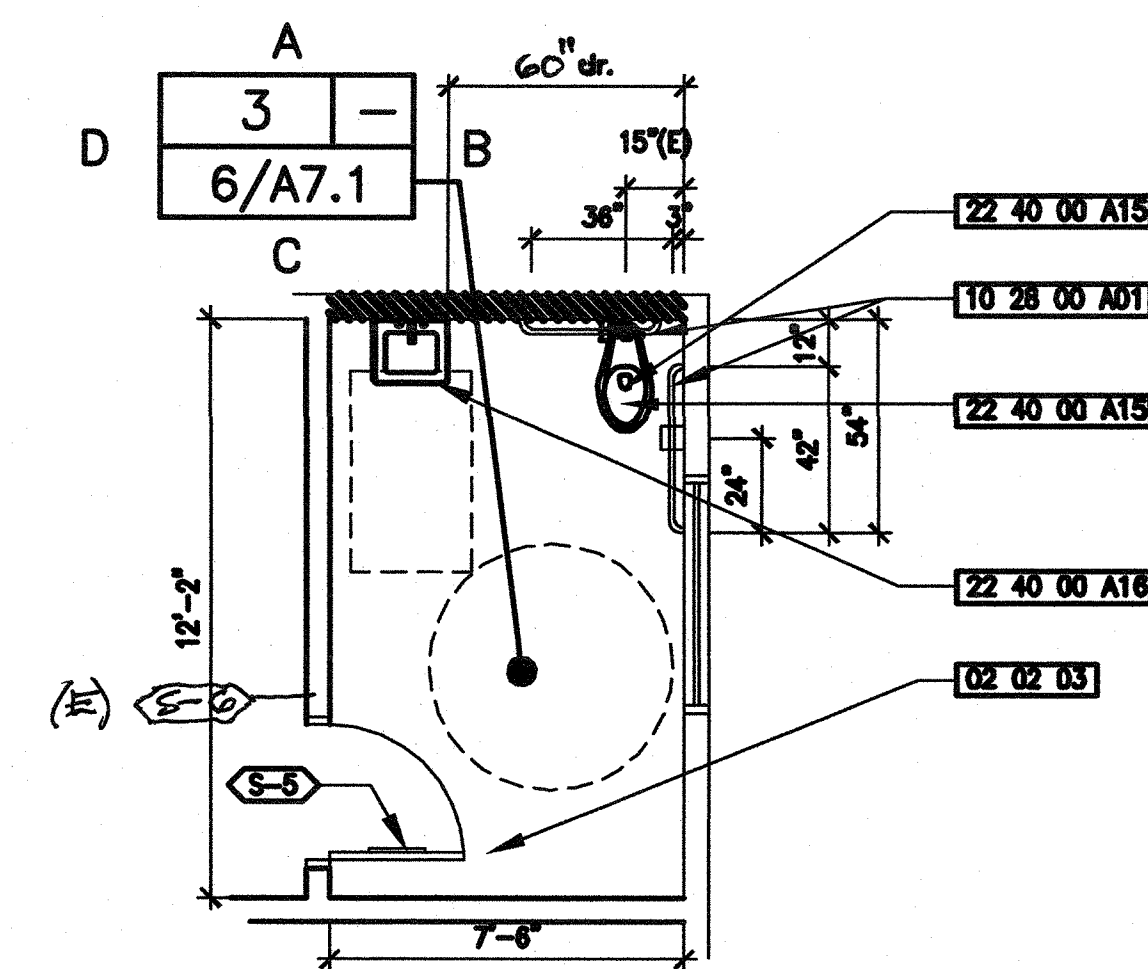


**ENLARGED WOMENS TOILET PLAN** 1  
SCALE: 1/4" = 1'-0"  
NOTE: ALL DIMENSIONS (E)



New toilet tissue dispenser. Perform soft demolition, modify framing and install new tile. Refer to bid specification section 0900 Scope of Work for dispenser model number and detailed construction information

**ENLARGED MENS TOILET PLAN** 2  
SCALE: 1/4" = 1'-0"  
NOTE: ALL DIMENSIONS (E)



**ENLARGED UNISEX TOILET PLAN** 3  
SCALE: 1/4" = 1'-0"  
NOTE: ALL DIMENSIONS (E)

**KEYED NOTES**

- 02 02 03 (E) DOOR TO REMAIN
- 09 30 13 CERAMIC TILE (FLOOR)
- 09 30 13 A1 CERAMIC WALL TILE (FIELD) (E)
- 09 30 13 A5 CERAMIC WALL TILE (BASE) (E)
- 10 28 00 A01 ACCESSIBLE GRAND BATH (E) (SEE 29/A10.10.1 FOR DETAIL)
- 10 28 00 A02 TOILET PARTITION (E)
- 10 28 00 A04 SOAP DISPENSER (E) (SEE 29/A10.10.1 FOR MOUNTING DETAIL)
- 10 28 00 A10 PAPER TOILET DISPENSER (H) (SEE 29/A10.10.1 FOR MOUNTING DETAIL)
- 10 28 00 A18 MIRROR (E) (SEE 29/A10.10.1 FOR MOUNTING DETAIL)
- 22 40 00 A15 ACCESSIBLE TOILET (E)
- 22 40 00 A16 LAVATORY (E) (SEE 29/A10.10.1 FOR MOUNTING DETAIL)
- 28 10 A20 (E) HAND DRYER

**LEGEND**

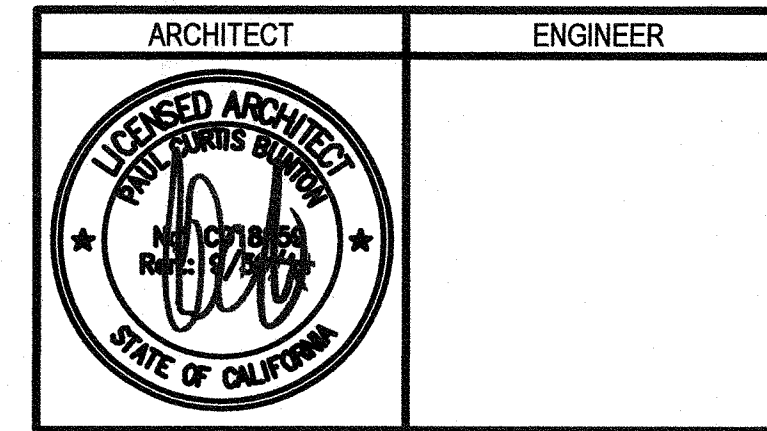
B13C SIGNAGE. SEE SIGN SCHEDULE A0.2

**GENERAL NOTES**

1. FOR ACCESSIBLE MOUNTING HEIGHTS REFER TO 29/A10.10.1



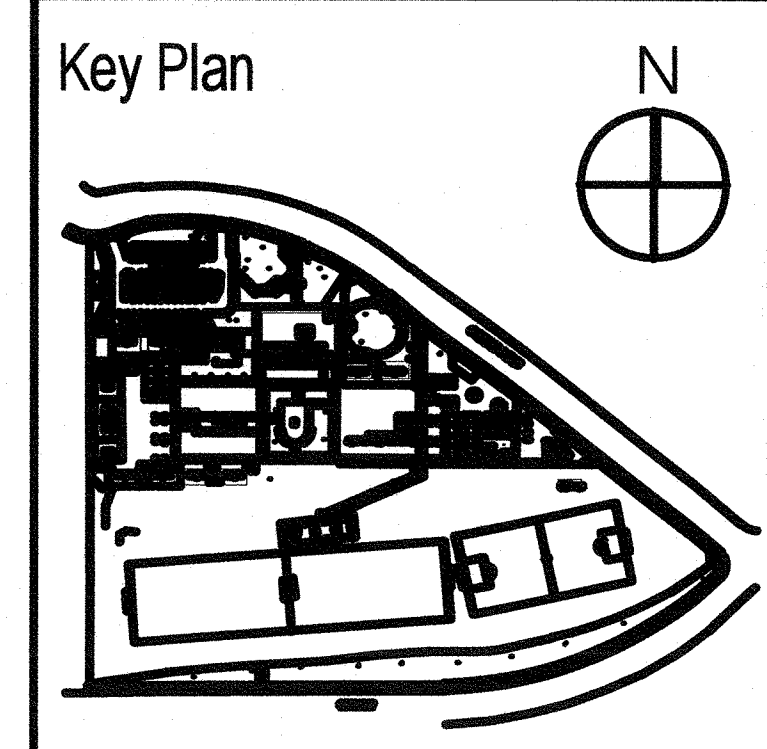
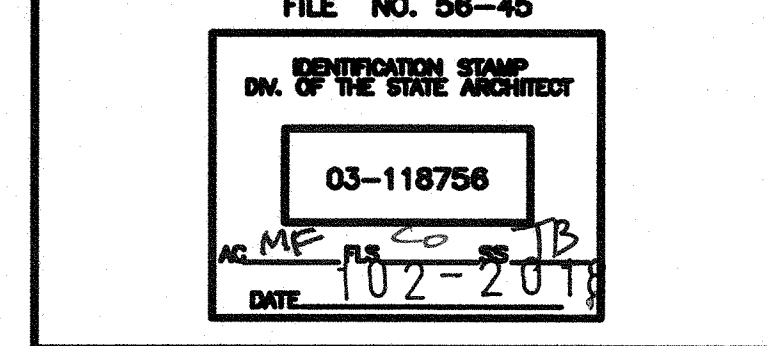
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NO.	REMARKS	DATE

- REVISIONS**
- SCHEMATIC DESIGN
  - DESIGN DEVELOPMENT
  - DSA PLAN CHECK
  - DSA BACK CHECK



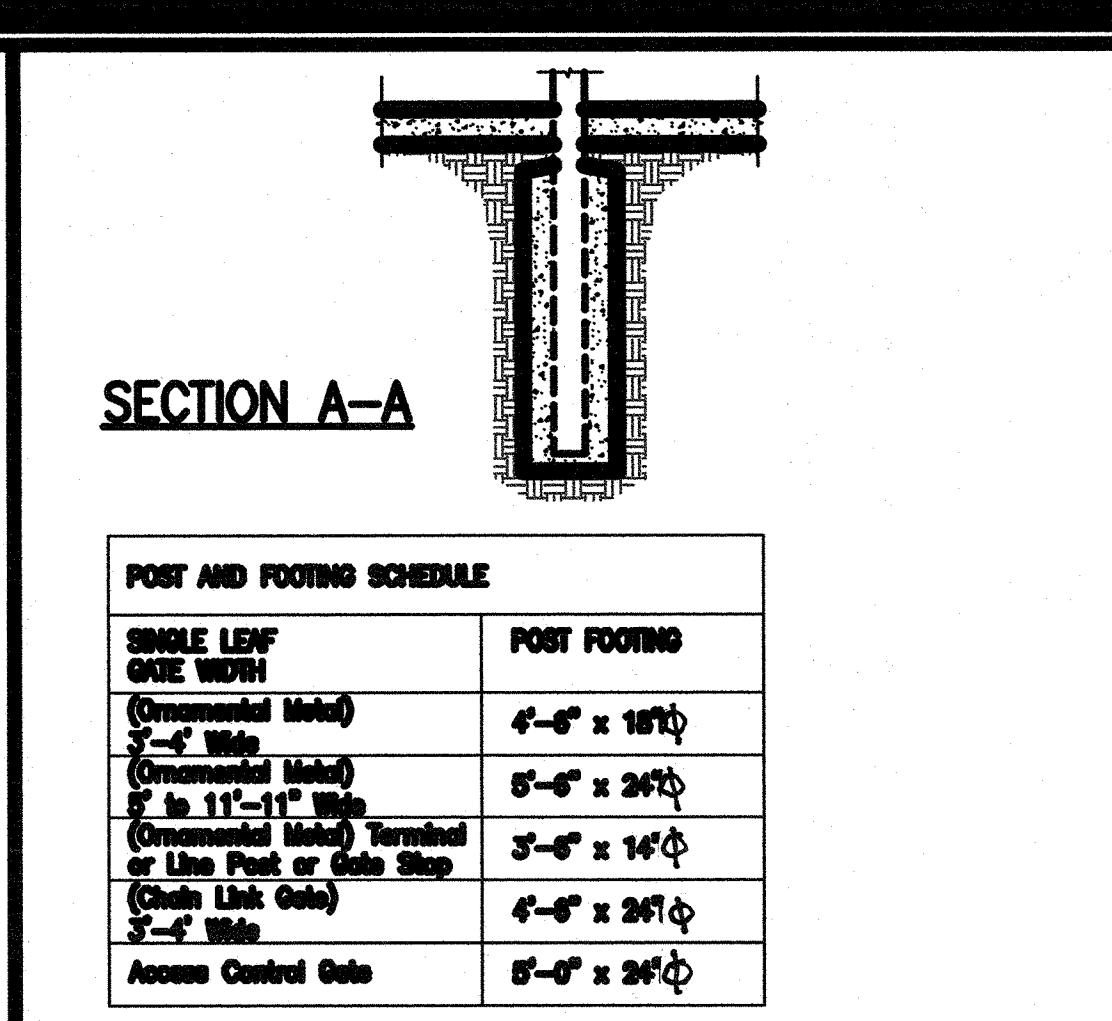
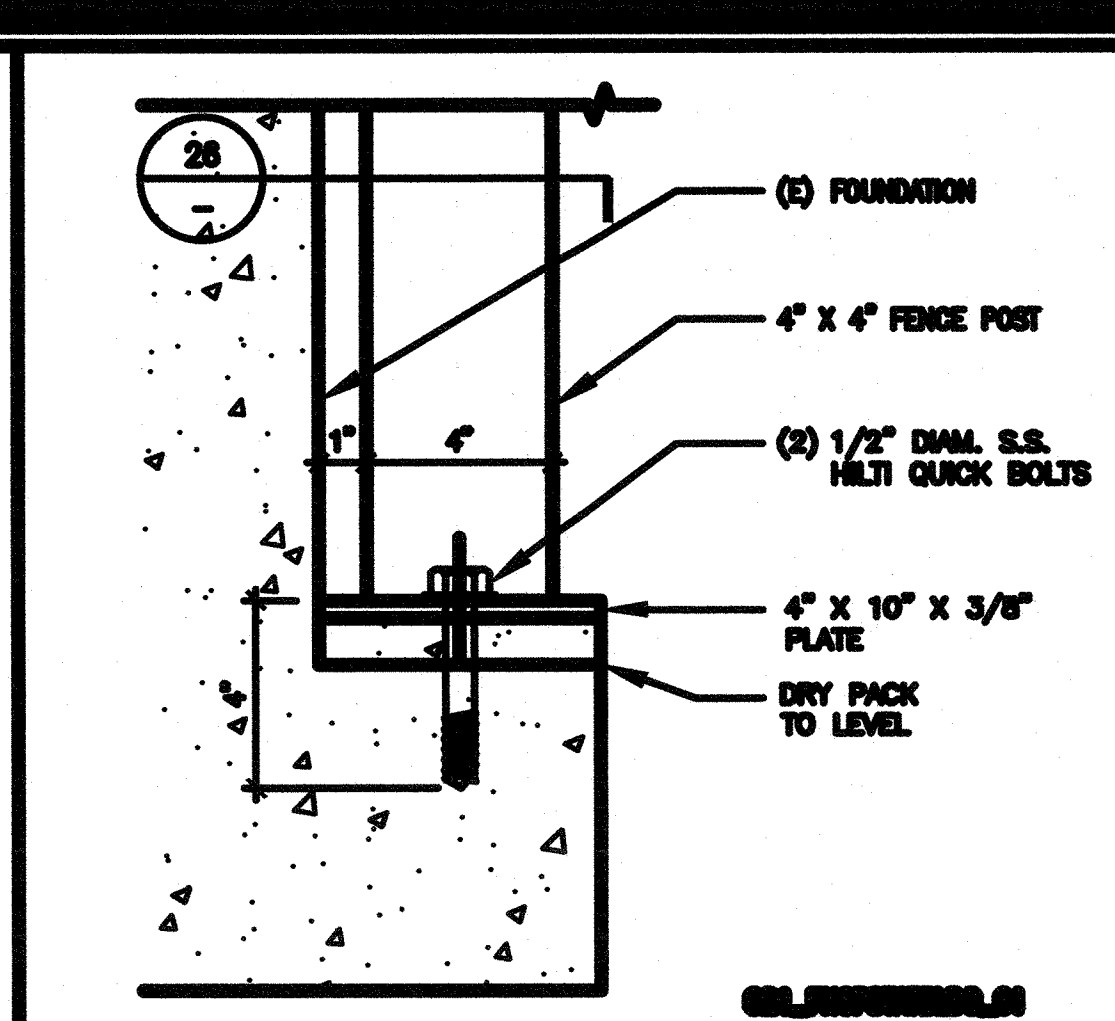
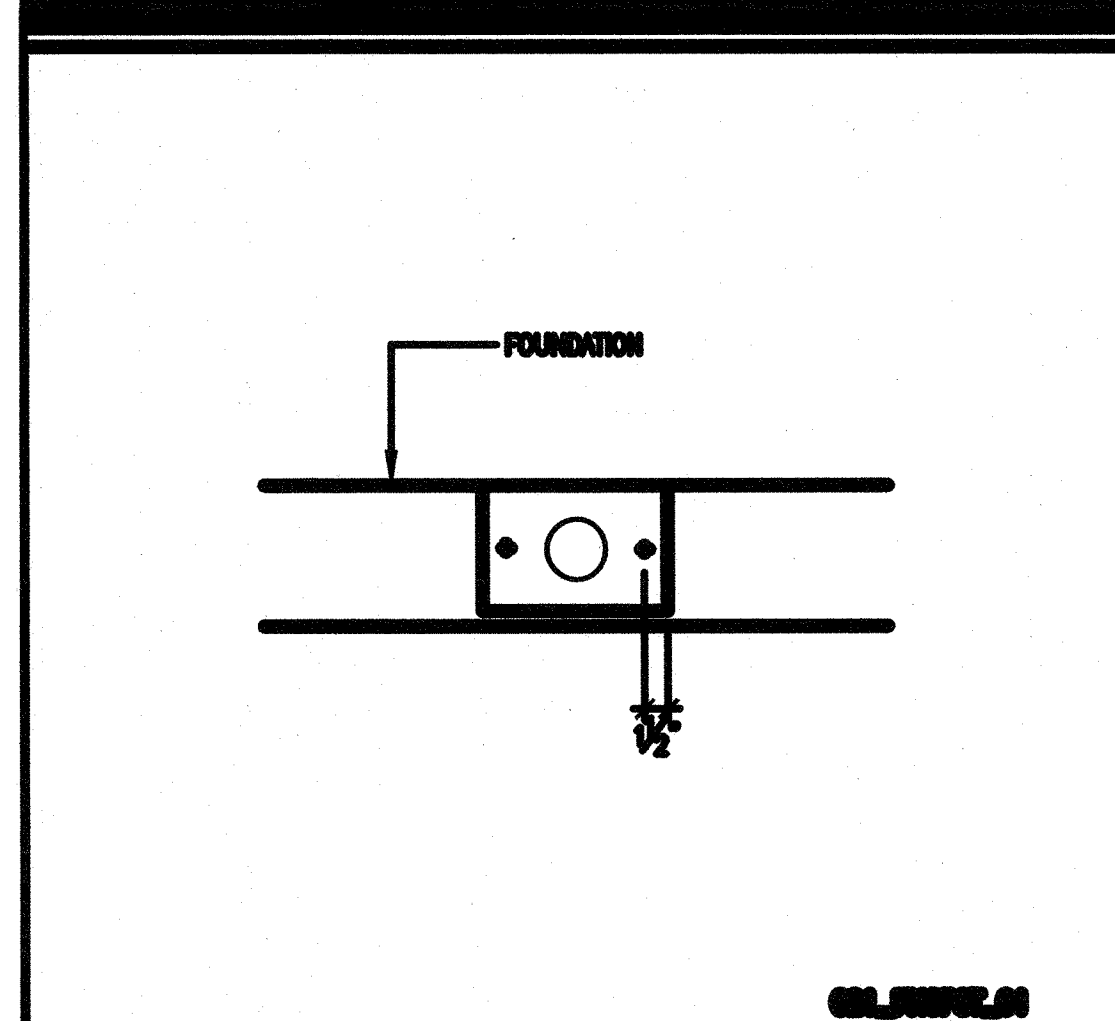
**BROOKSIDE ELEMENTARY ADMINISTRATION BUILDING**  
OAK PARK UNIFIED SCHOOL DISTRICT

165 N. SATINWOOD DRIVE OAK PARK CALIFORNIA 91301

**ENLARGED RESTROOM PLAN AND INTERIOR ELEVATIONS**

Date: 11/06/2017  
Drawing Number: A7.1  
AS NOTED  
Project Number: 17038

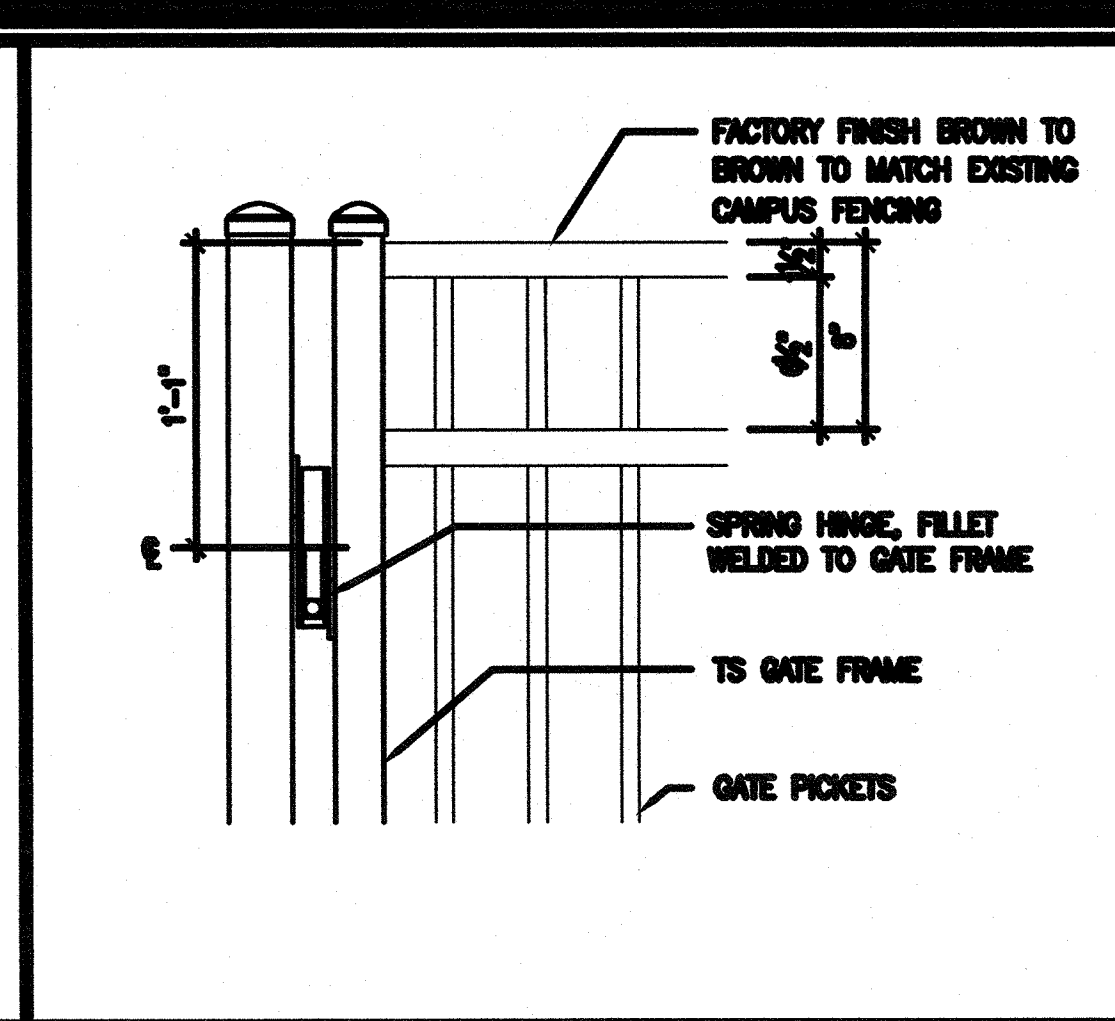
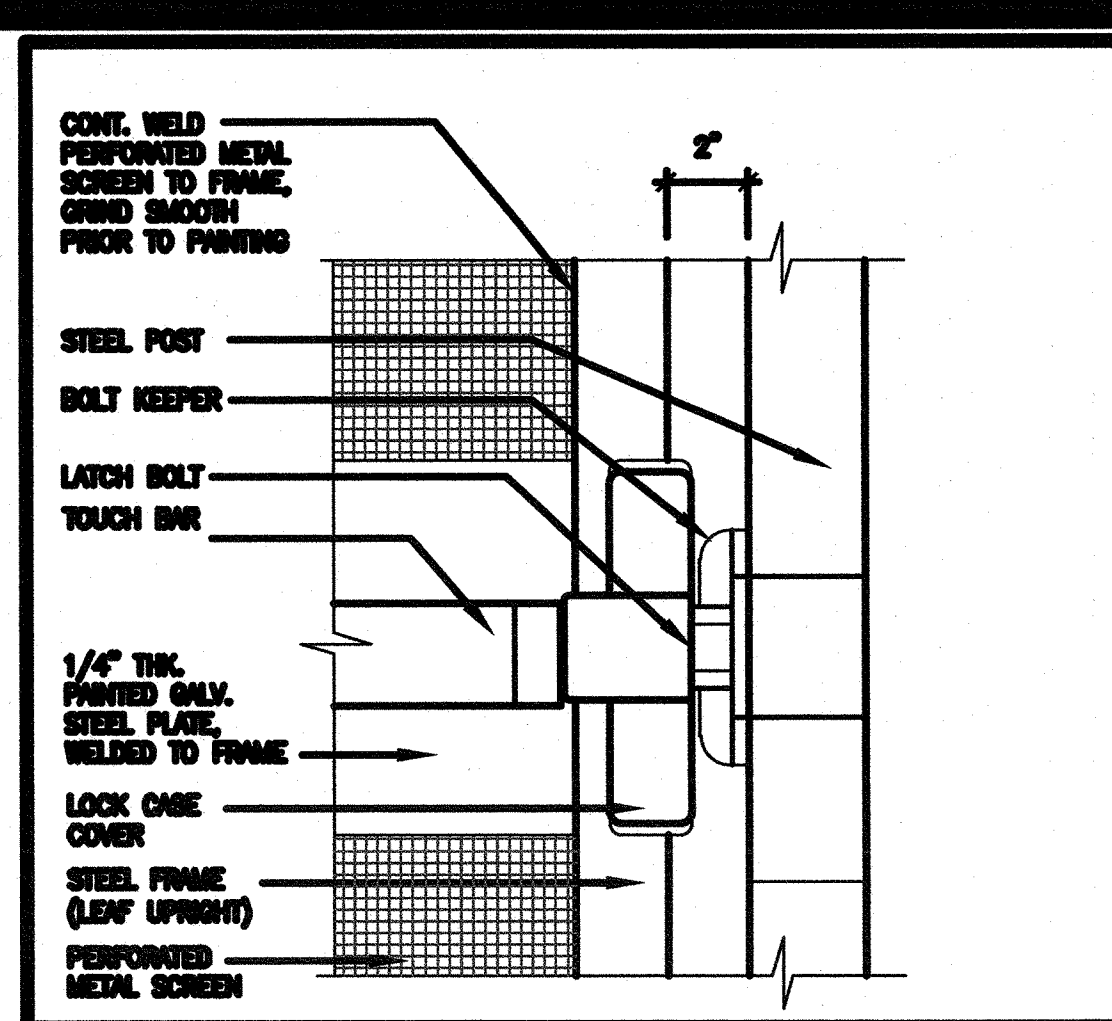




26 FENCE POST 1" = 1'-0"

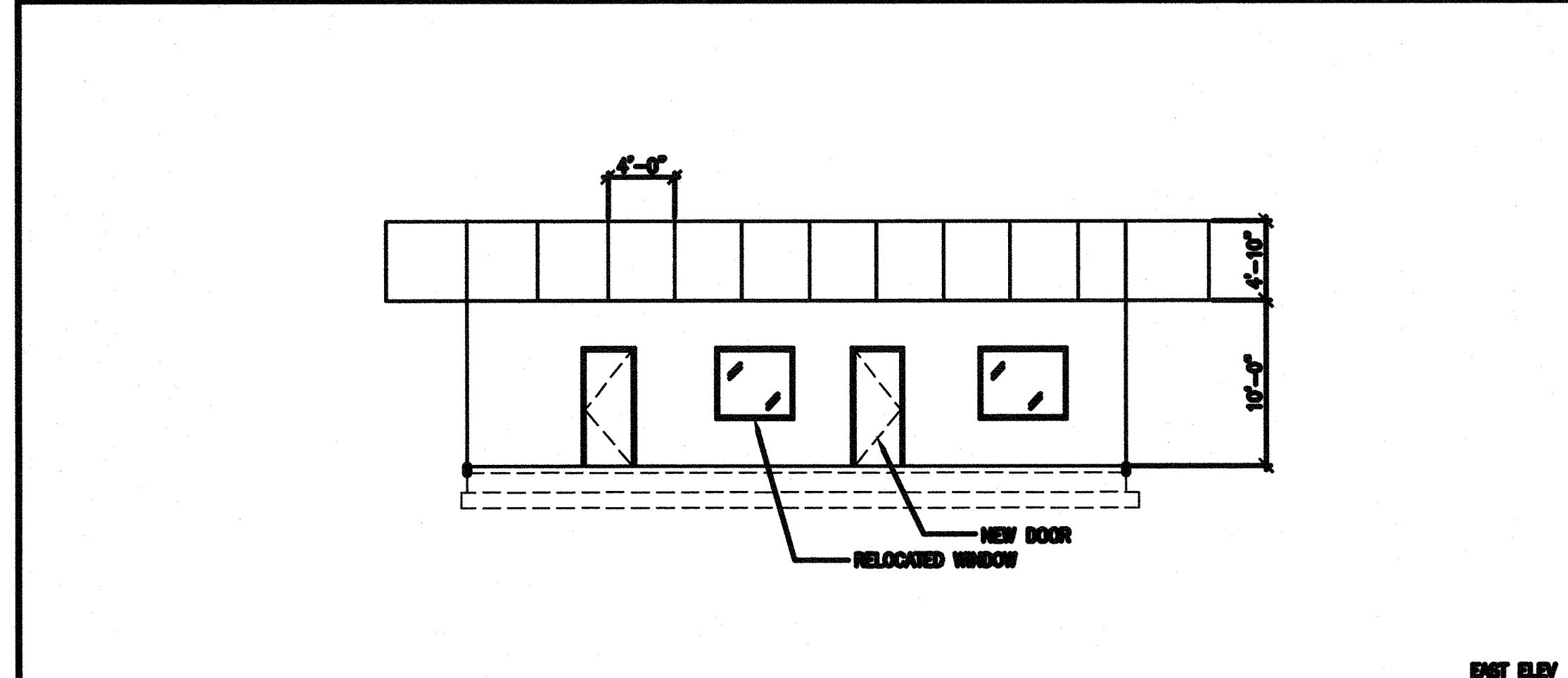
21 FENCE POST AT BUILDING 3" = 1'-0"

16 FENCE FOOTING SCHED. 1/2" = 1'-0"

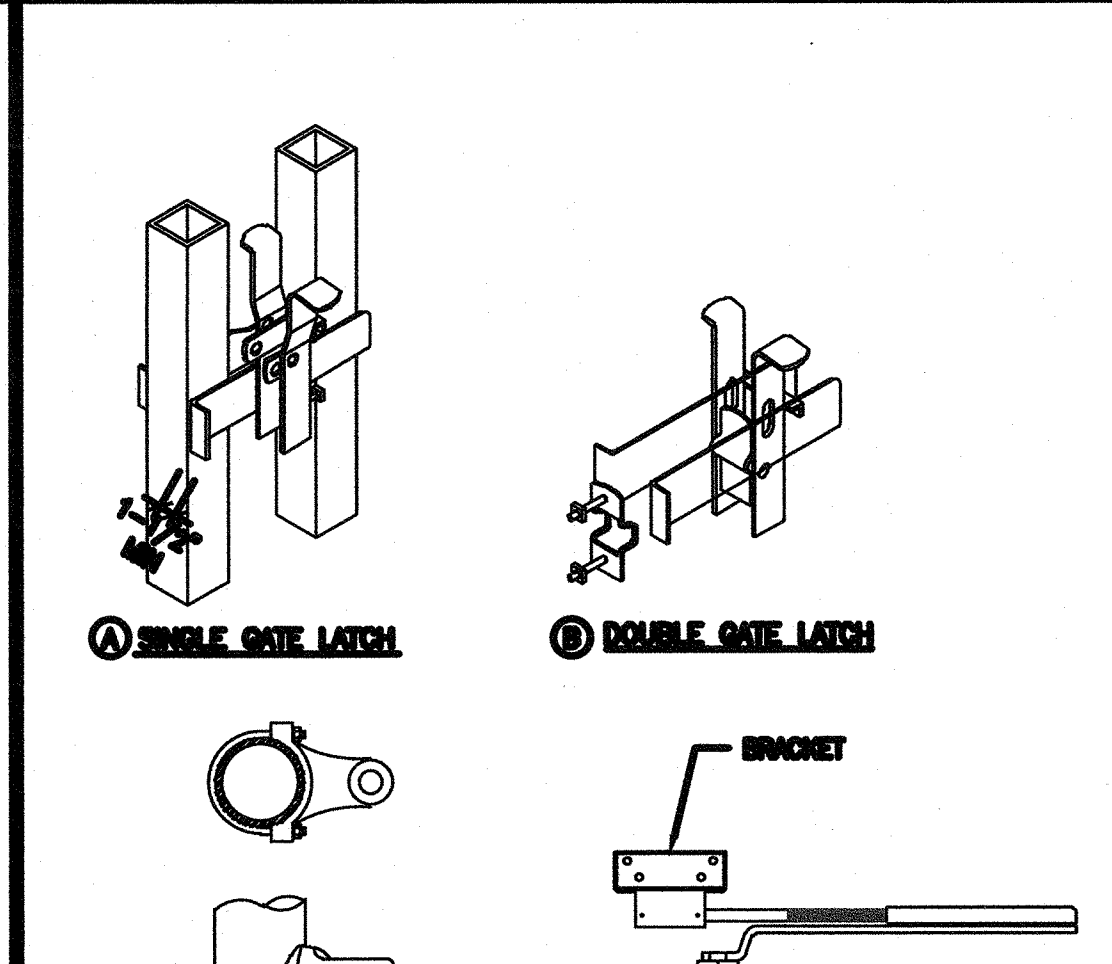


6 PANIC HARDWARE 3/4" = 1'-0"

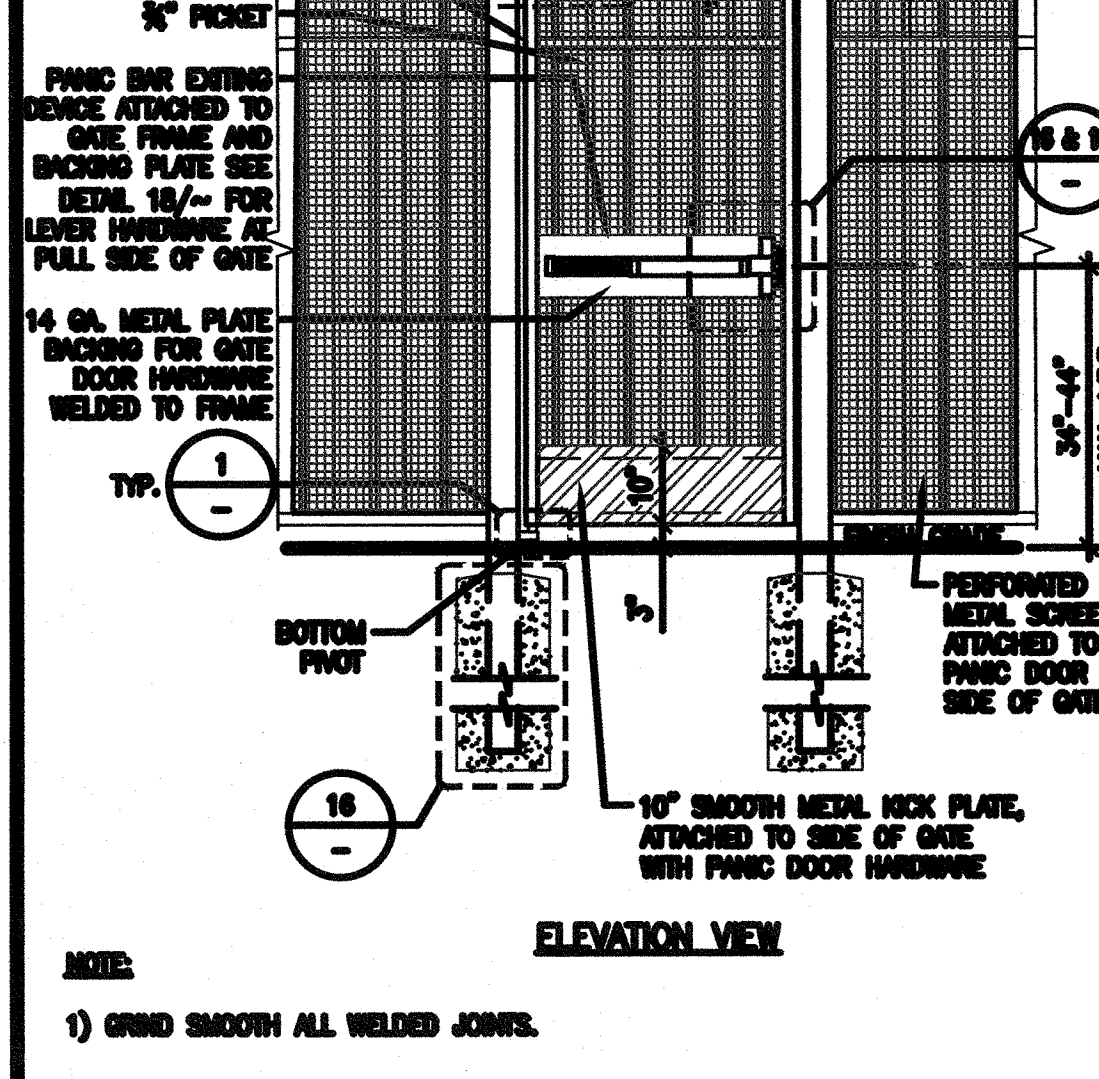
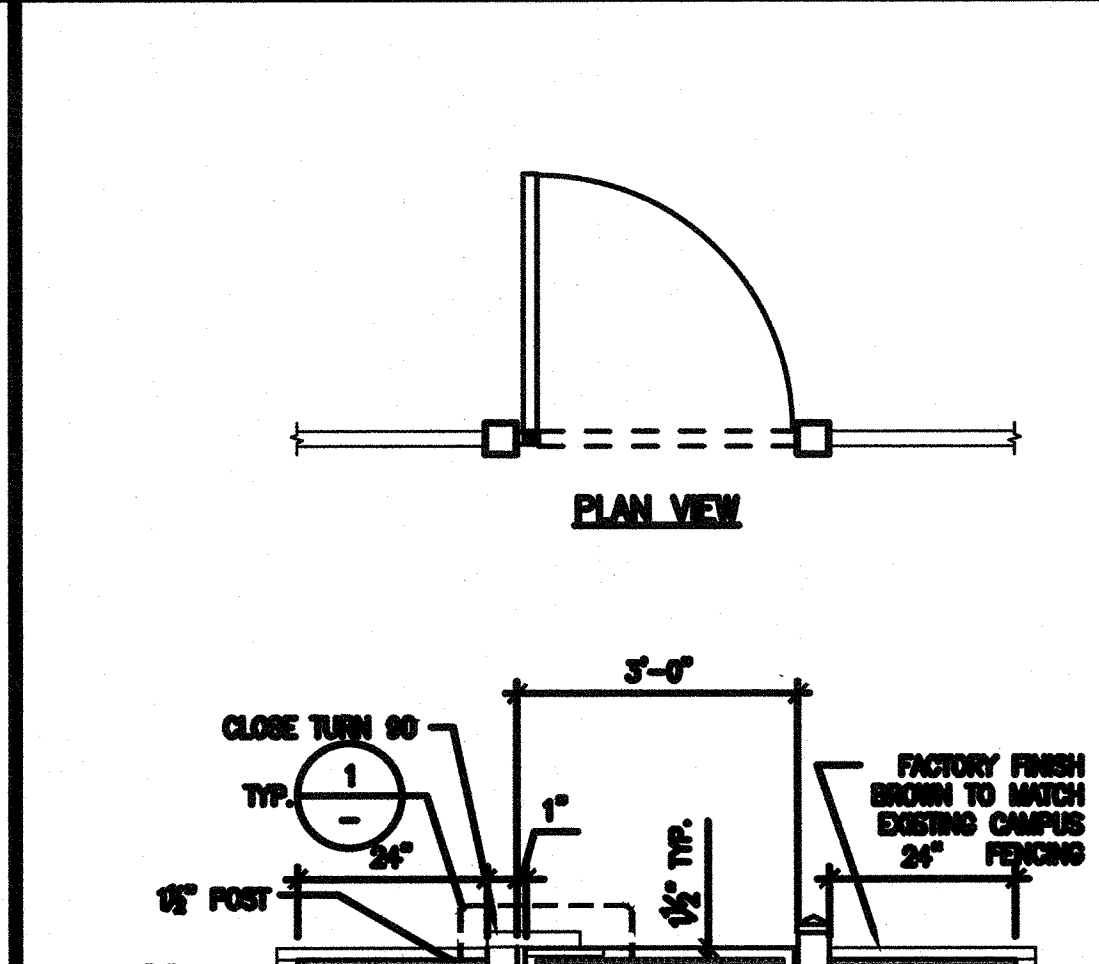
1 HINGE DETAIL 1-1/2" = 1'-0"



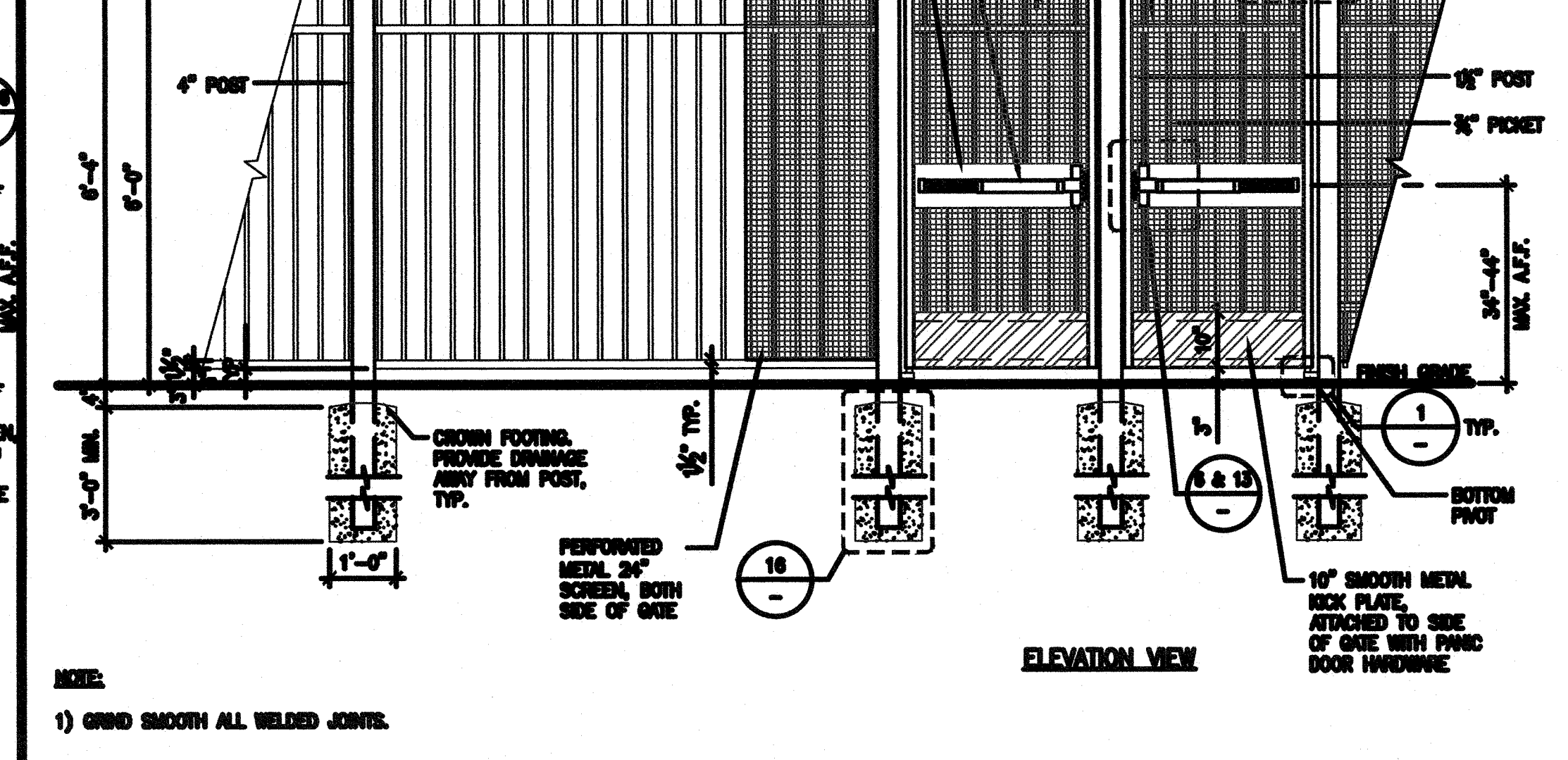
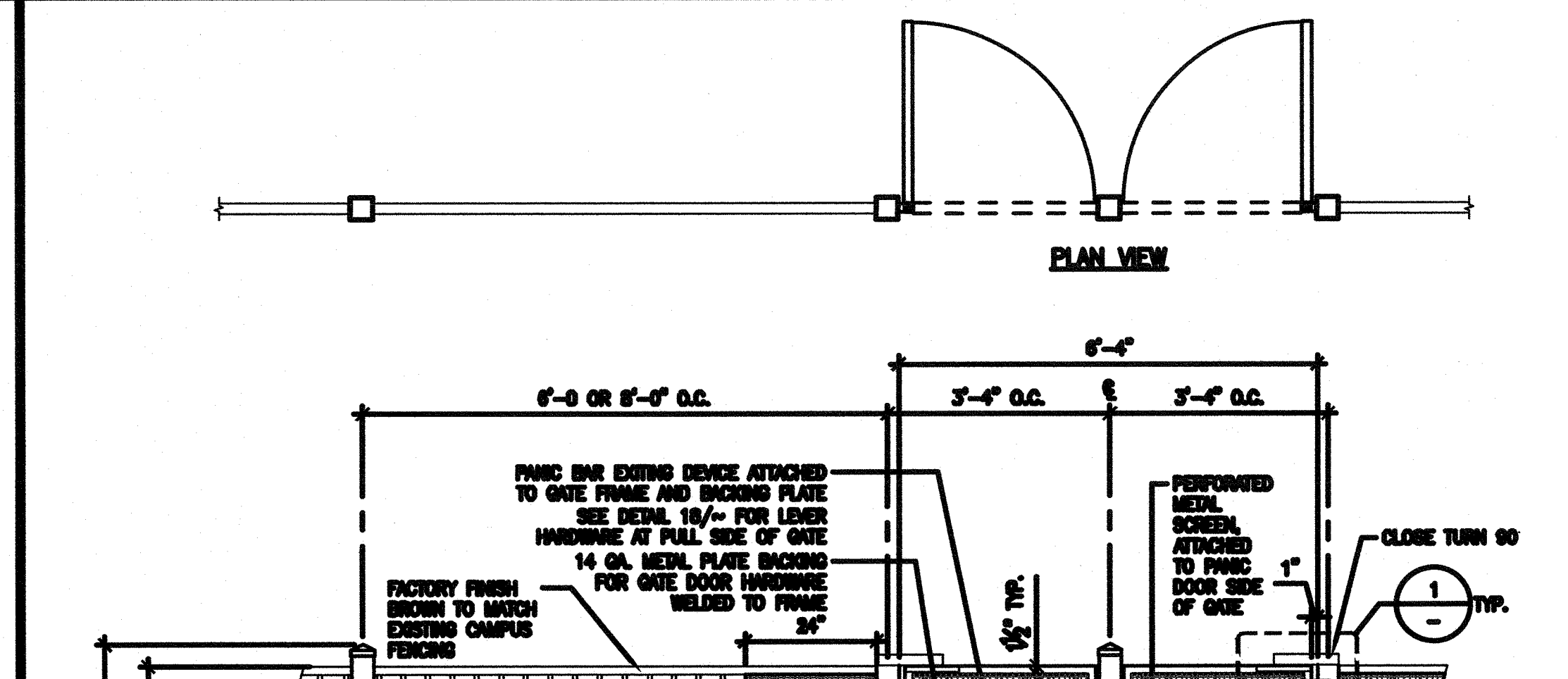
27 EAST ELEVATION 1/8" = 1'-0"



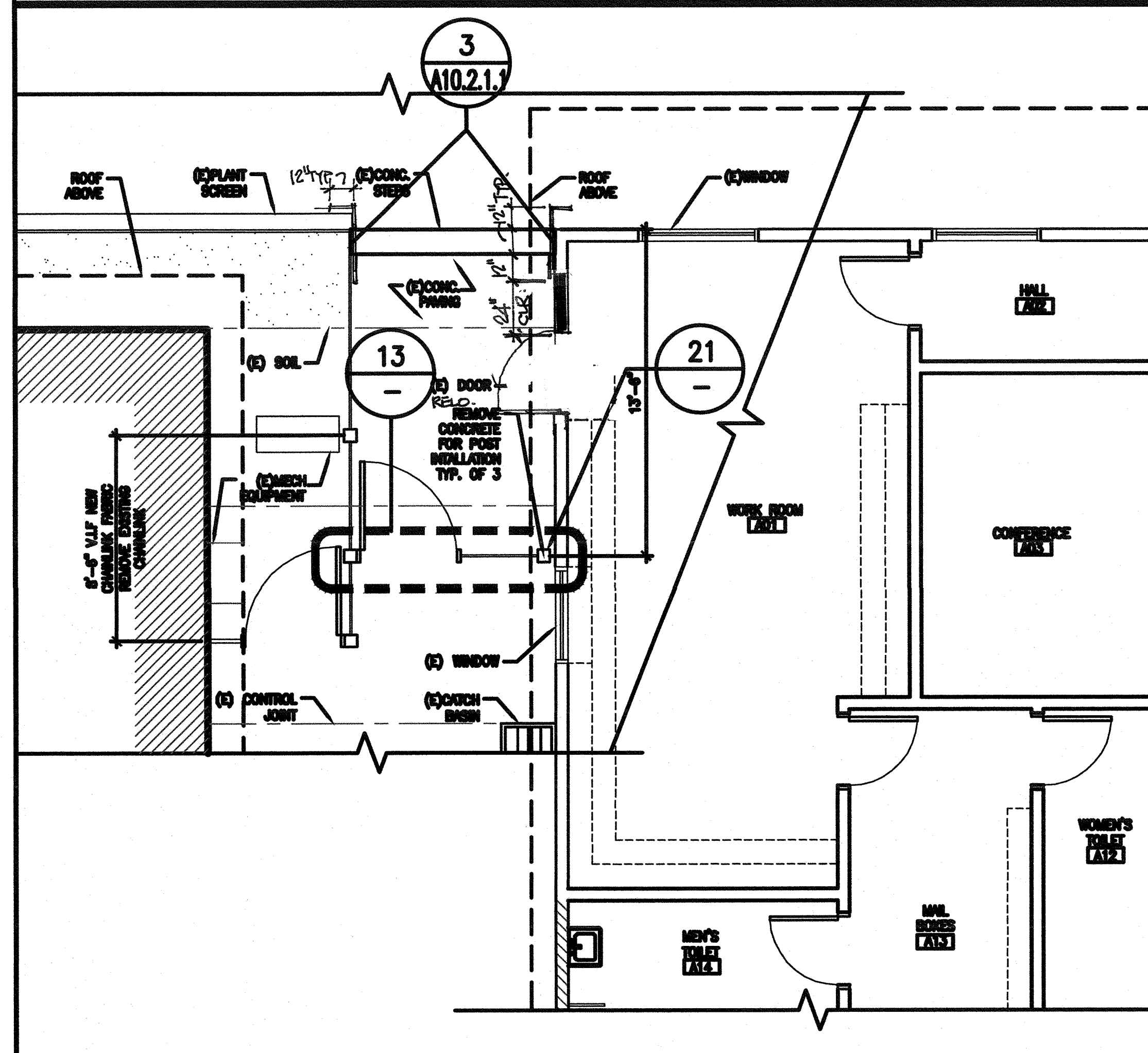
18 TYP. HINGING GATE ACCESSORIES 3" = 1'-0"



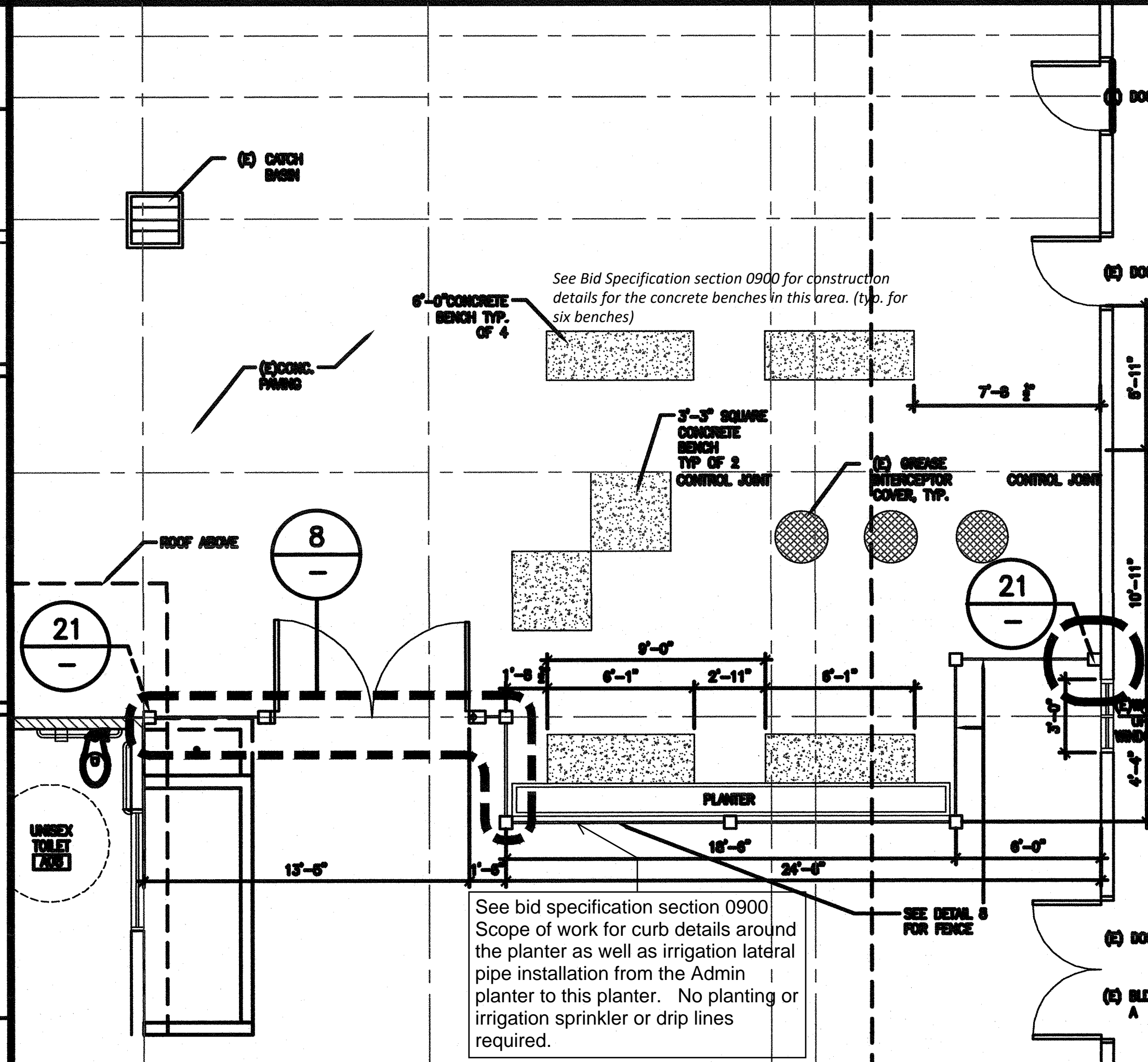
13 ORNAMENTAL SINGLE GATE 1/2" = 1'-0"



8 ORNAMENTAL DOUBLE GATE 1/2" = 1'-0"



25 SECURITY FENCE ADMIN



20 SECURITY FENCE ADMIN

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ENGINEER: [Signature]

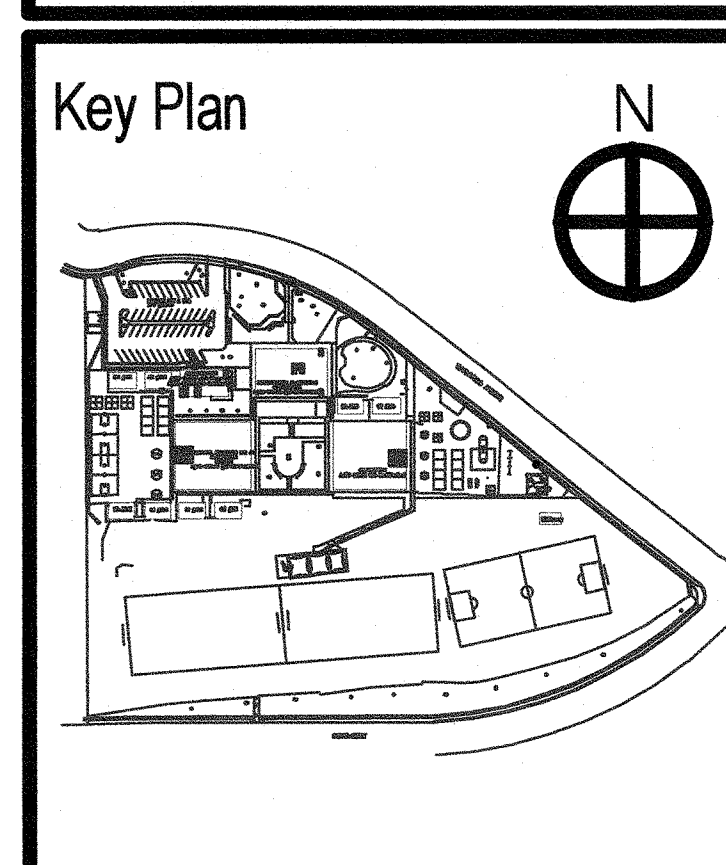
REGISTERED ARCHITECT  
STATE OF CALIFORNIA

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NO.	REMARKS	DATE

DATE: \_\_\_\_\_  
SCHEMATIC DESIGN \_\_\_\_\_  
DESIGN DEVELOPMENT \_\_\_\_\_  
DSA PLAN CHECK \_\_\_\_\_  
DSA BACK CHECK \_\_\_\_\_

FILE NO. 00-45  
DIA. OF THE STATE ARCHITECT  
03-118758  
102-2016

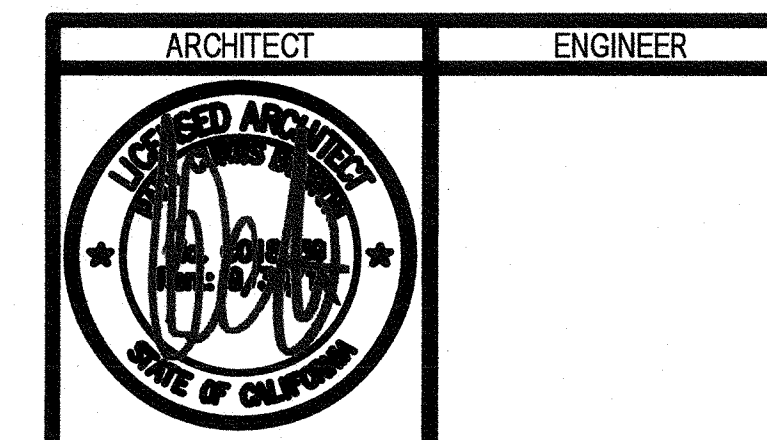


BROOKSIDE ELEMENTARY  
ADMINISTRATION BUILDING  
OAK PARK UNIFIED SCHOOL  
DISTRICT

165 N. SATINWOOD DRIVE OAK  
PARK CALIFORNIA 91301

GATE AND FENCING  
DETAILS

Date: 11/06/2017  
Drawing Number: A10.2.1  
Scale: AS NOTED  
Project Number: 17038

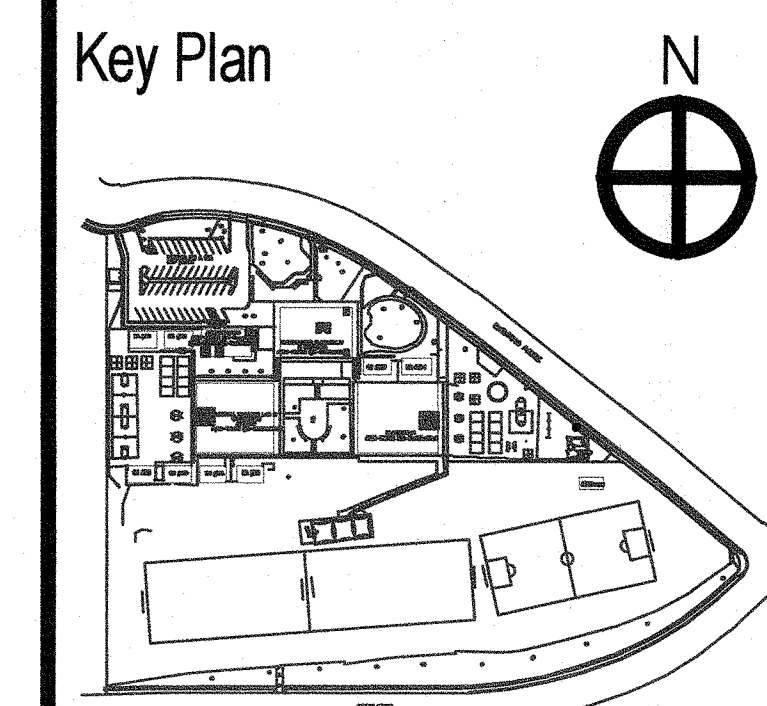


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NO.	REMARKS	DATE

DRAWING STATUS	DATE
SCHEMATIC DESIGN	
DESIGN DEVELOPMENT	
DSA PLAN CHECK	
DSA BACK CHECK	

FILE NO. 50-45  
10-11-2011  
10-2-2011

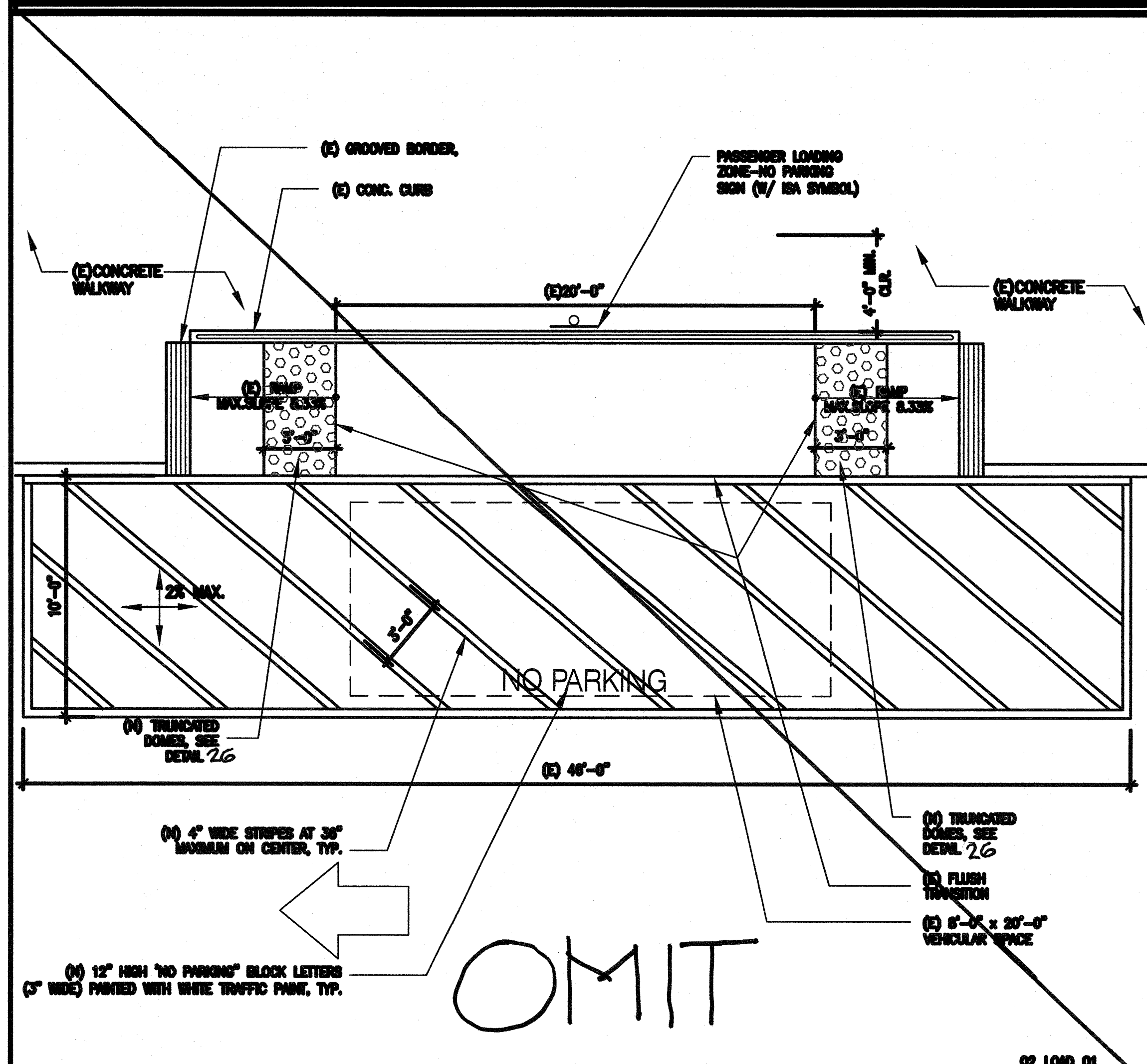


BROOKSIDE ELEMENTARY  
ADMINISTRATION BUILDING  
OAK PARK UNIFIED SCHOOL  
DISTRICT

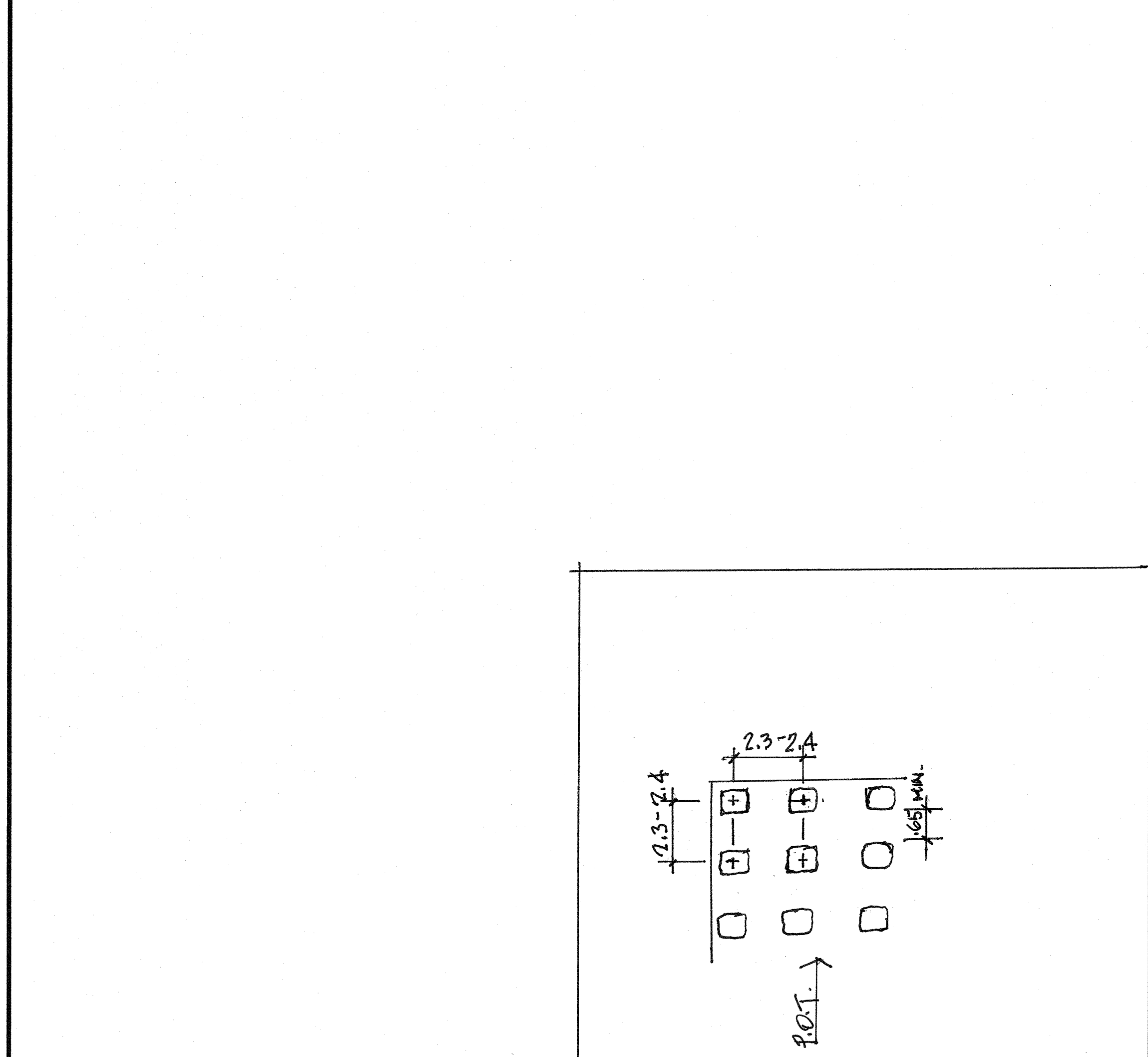
165 N. SATINWOOD DRIVE OAK  
PARK CALIFORNIA 91301

SITE DETAILS

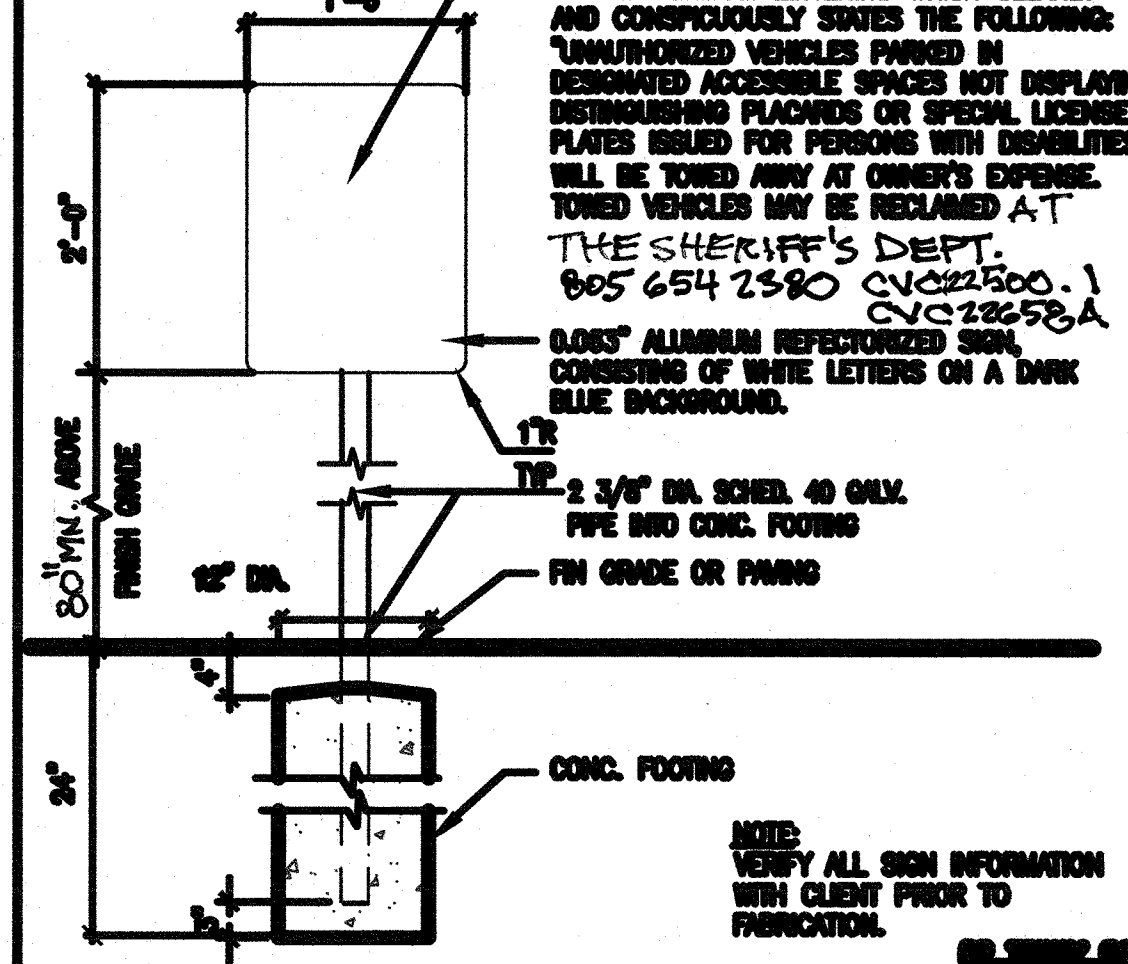
Date: 11/06/2017  
Scale: AS NOTED  
Project Number: 17038  
Drawing Number: A10.2.1.1



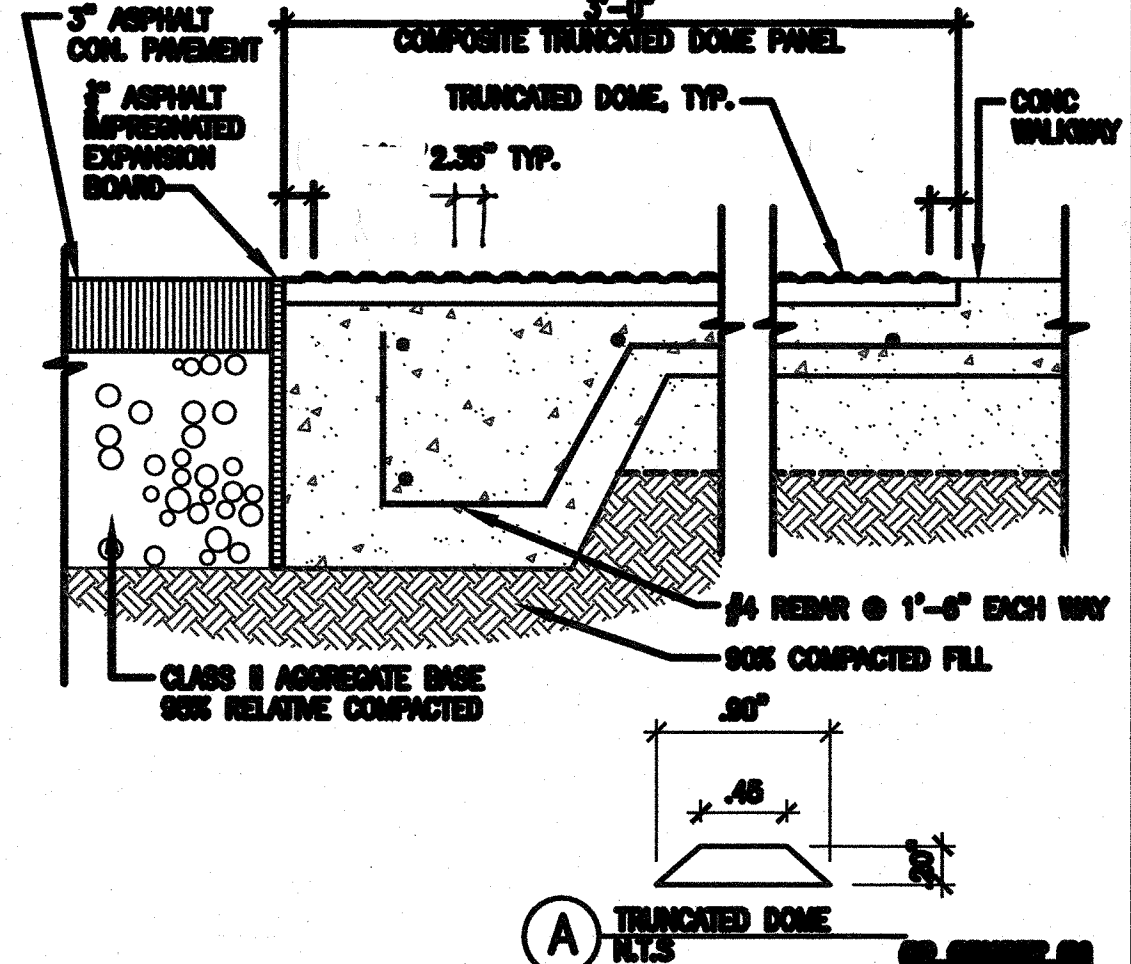
10 PASSENGER DROP OFF AND LOADING ZONE - NEW 1/4" = 1'-0"



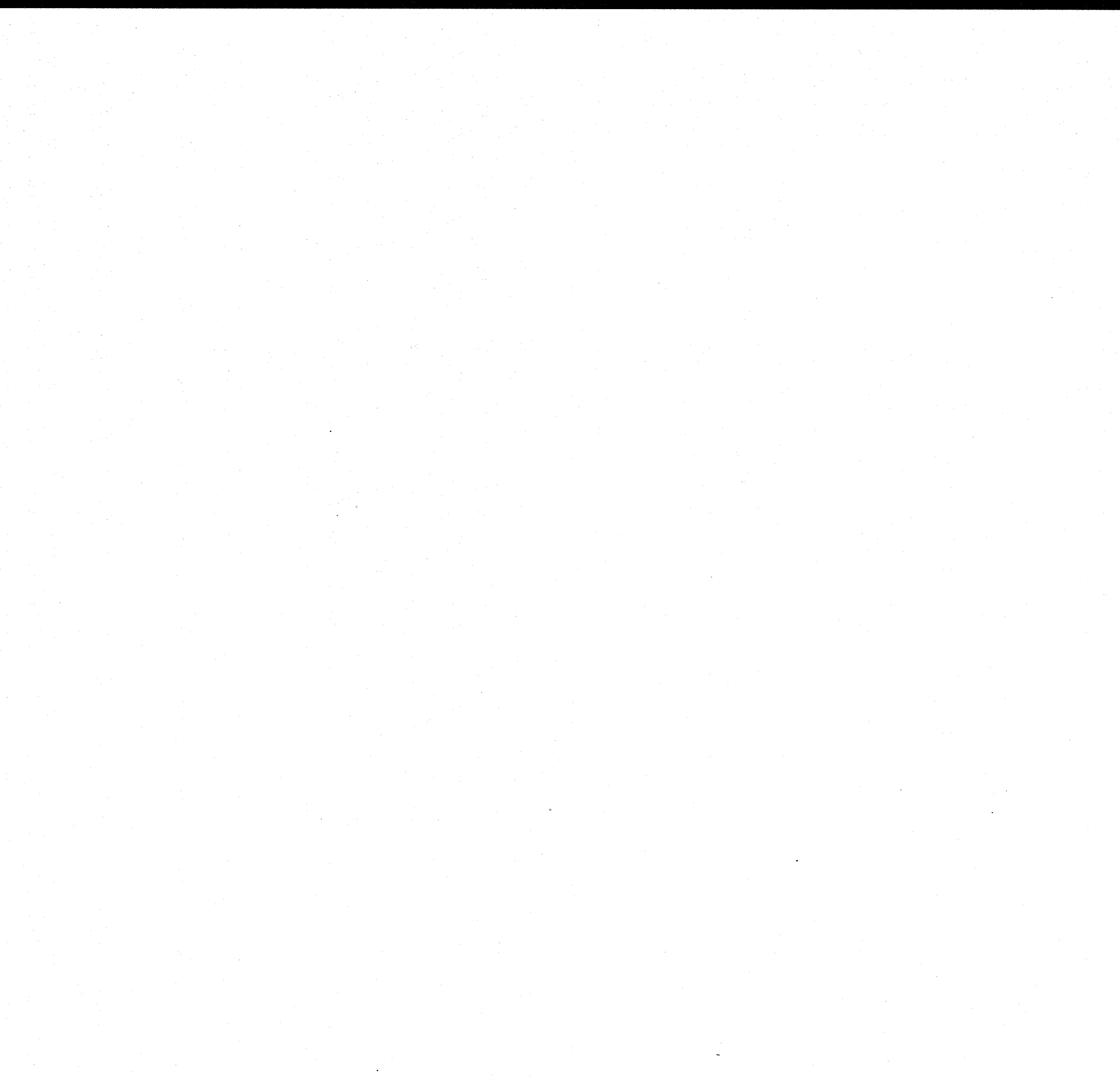
10 PASSENGER DROP OFF AND LOADING ZONE - NEW 1/4" = 1'-0"



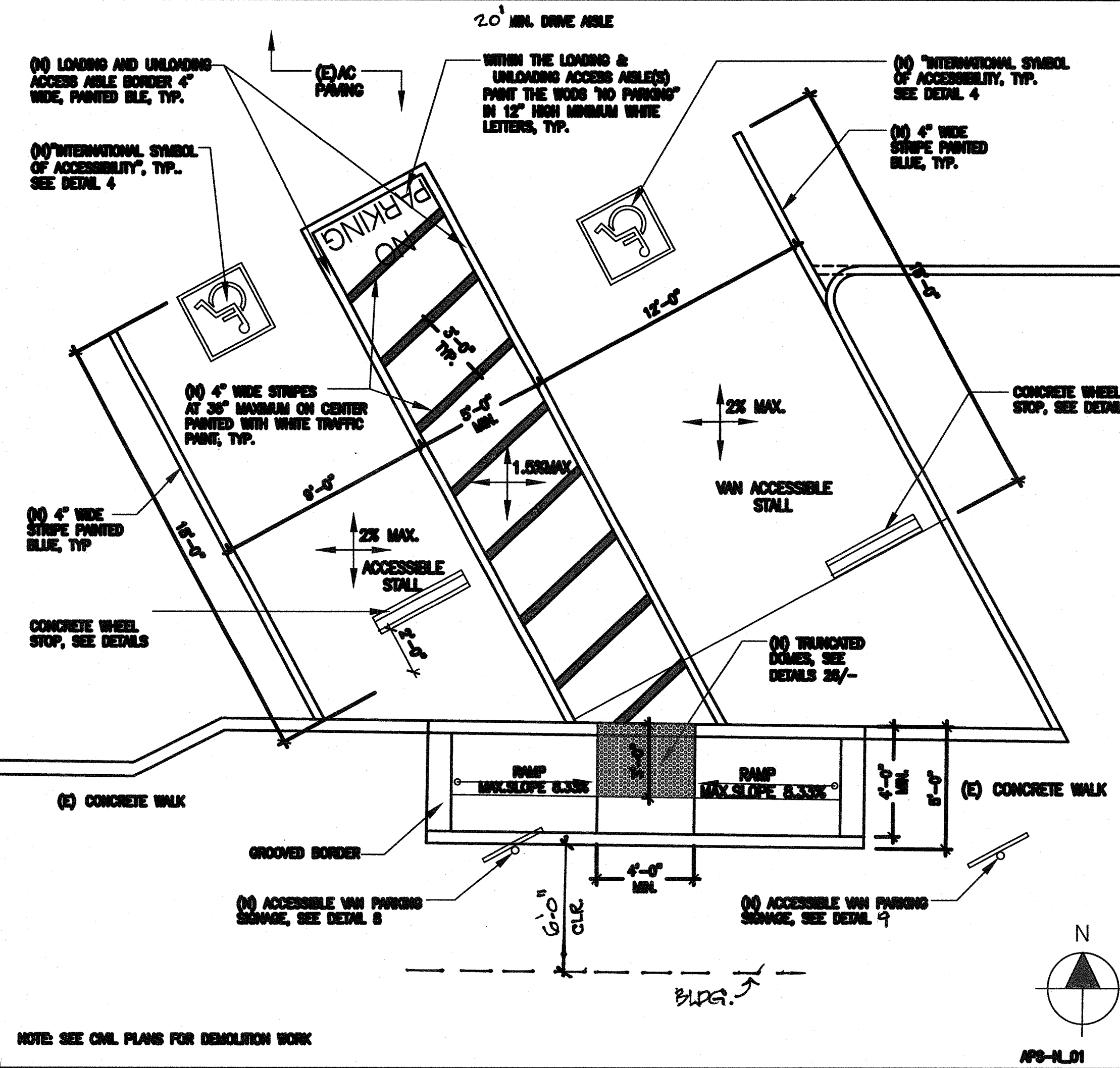
30 TOW AWAY SIGN 3/4" = 1'-0"



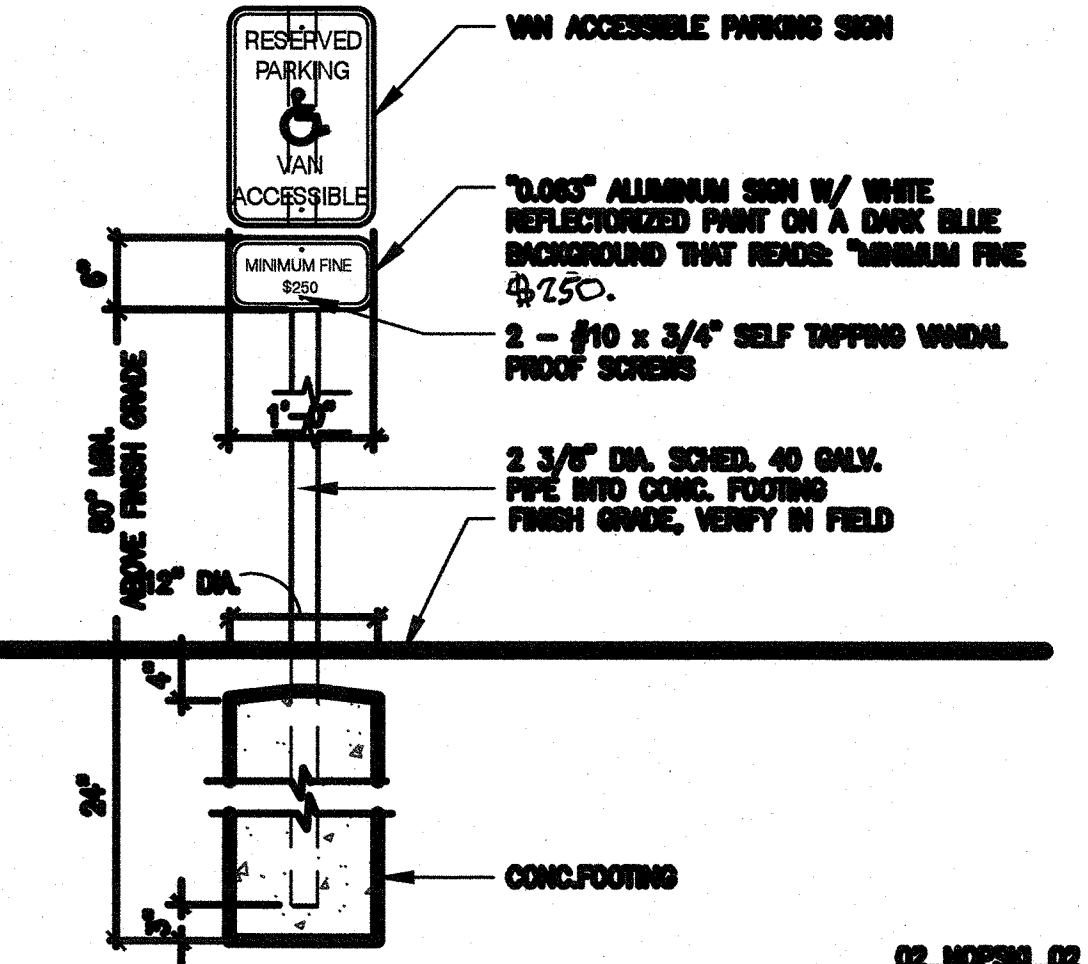
26 TRUNCATED DOMES 1-1/2" = 1'-0"



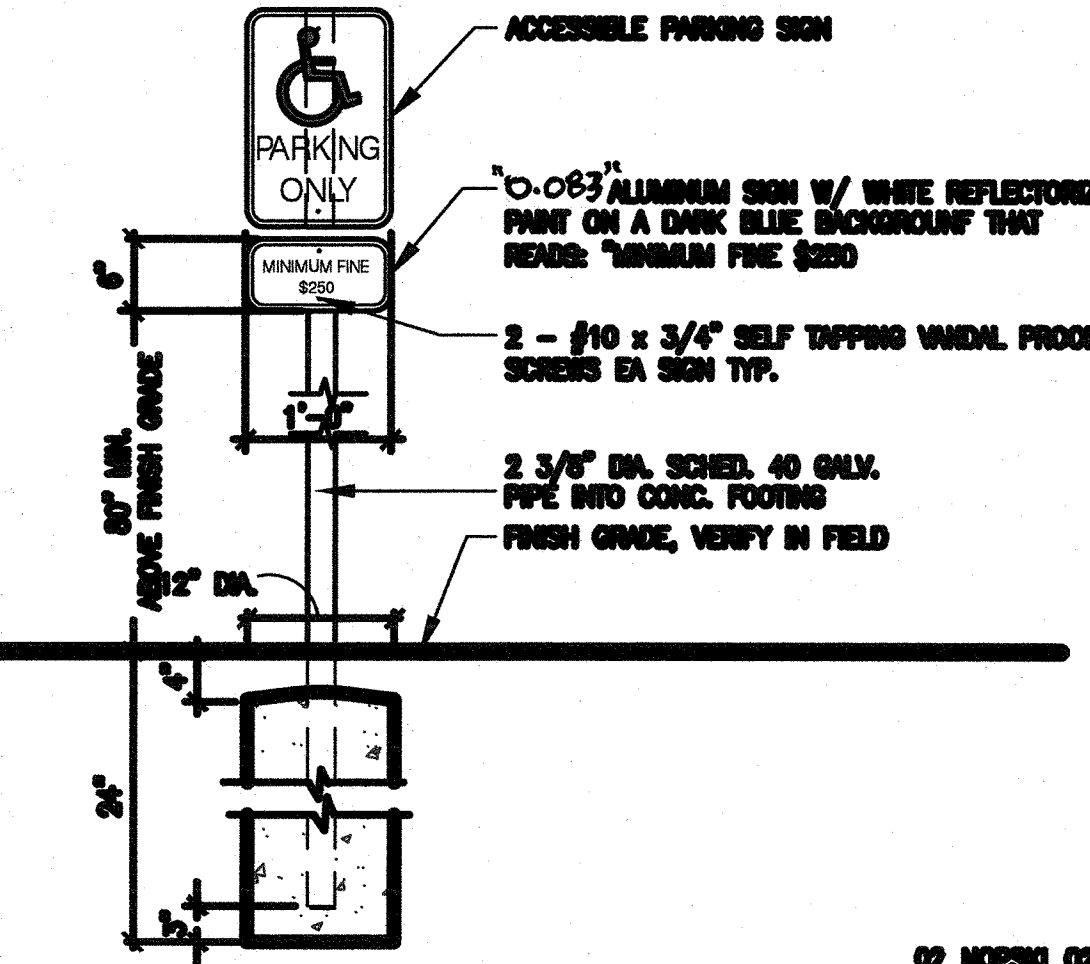
6 VAN ACCESSIBLE STALL 1/4" = 1'-0"



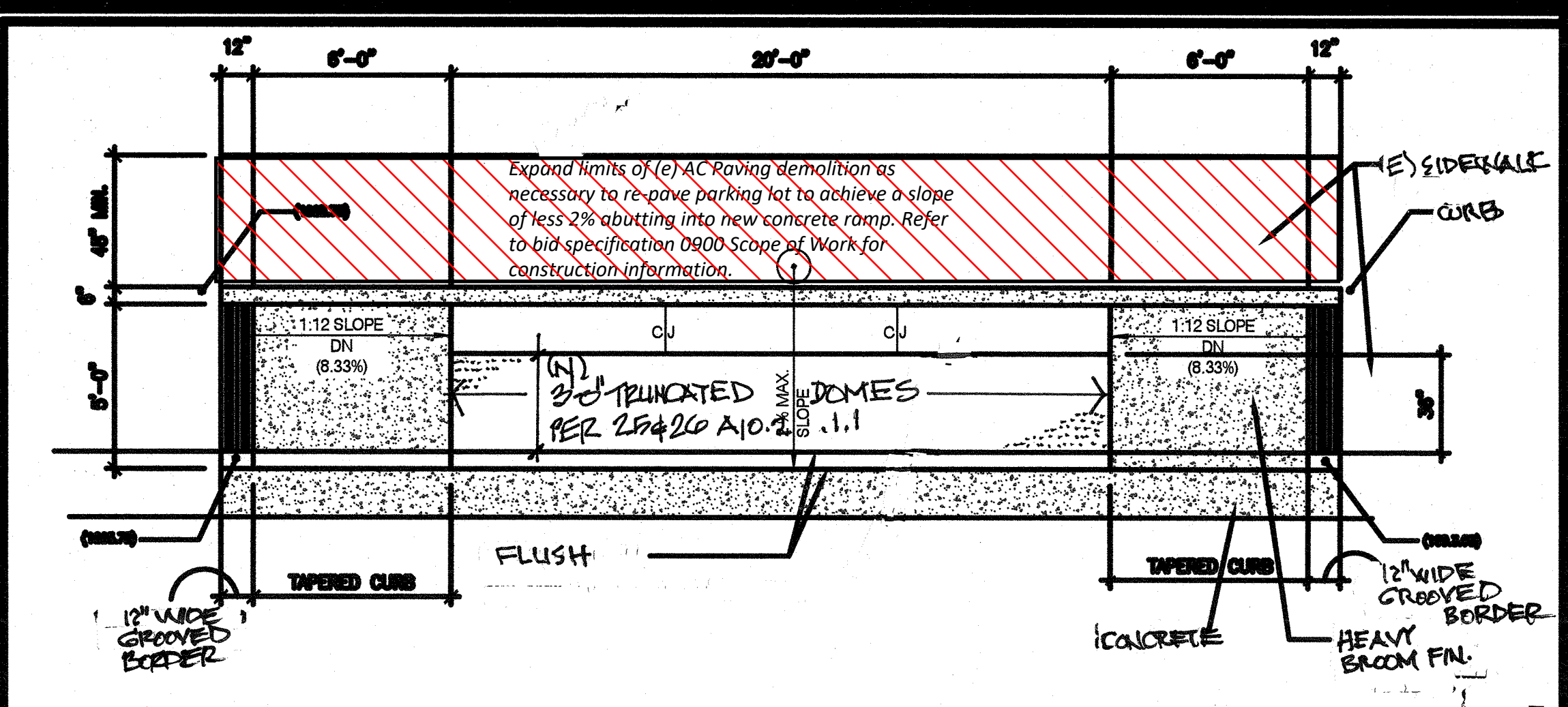
7 ACCS. PARKING STALLS - NEW 1/4" = 1'-0"



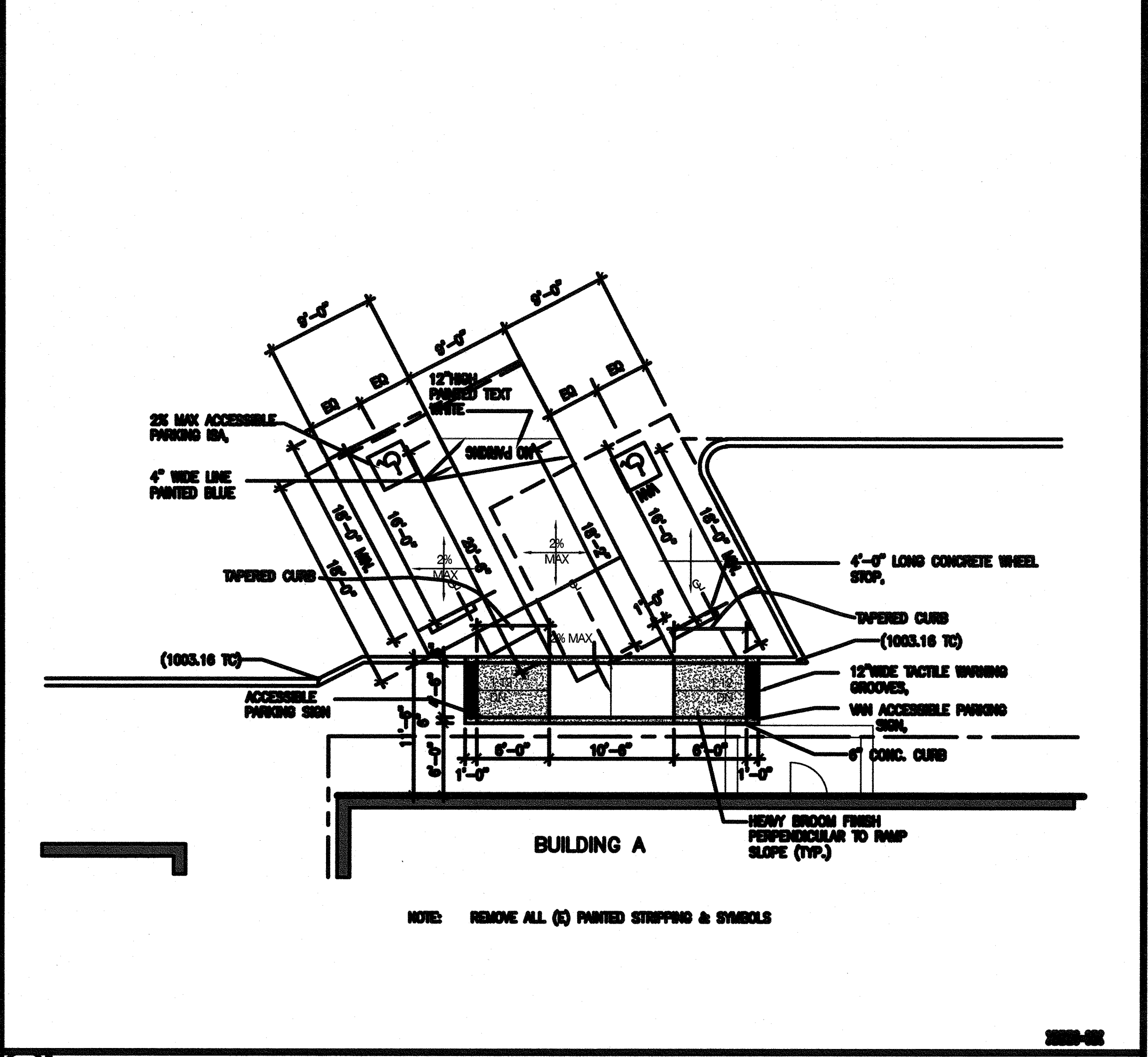
9 VAN ACCESSIBLE SIGNAGE 3/4" = 1'-0"



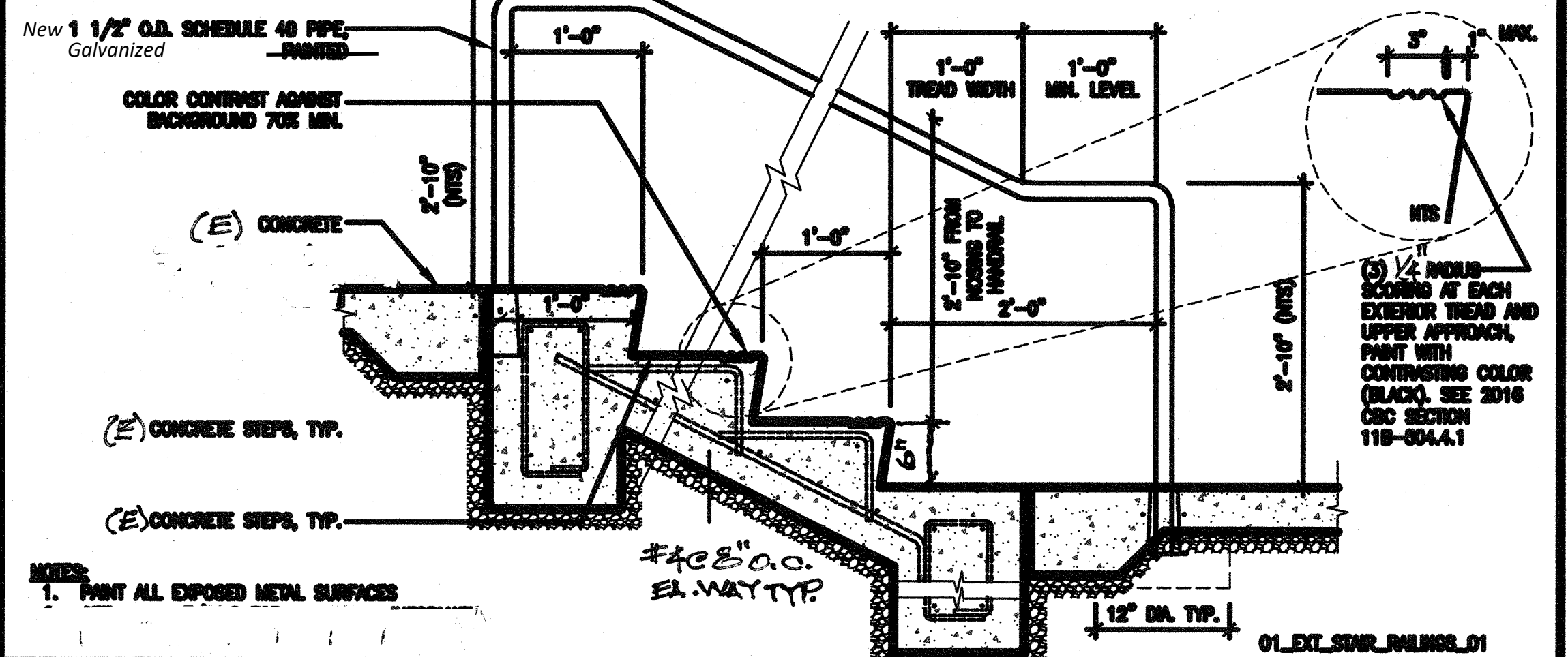
8 ACCESSIBLE PARKING SIGNAGE 3/4" = 1'-0"



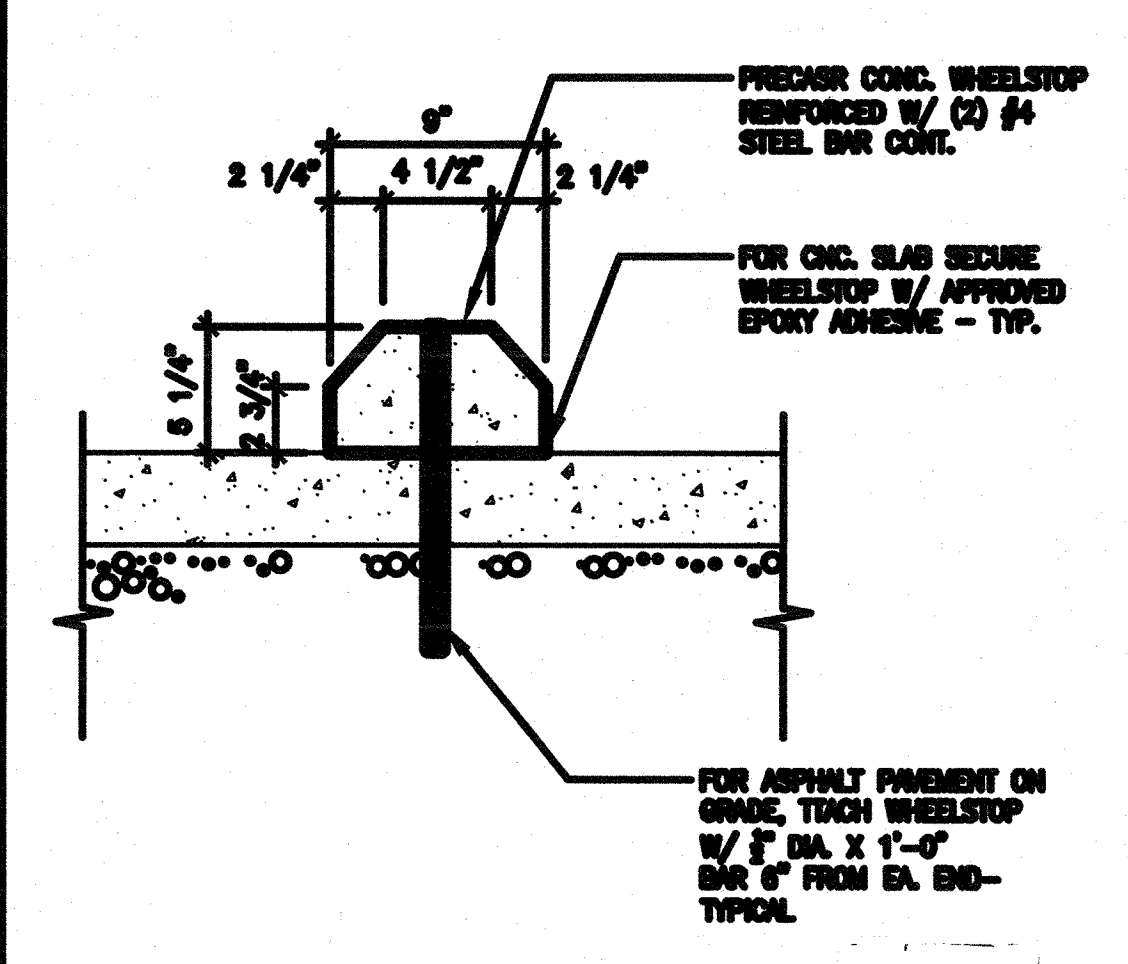
1 ACCESSIBLE PASSENGER DROP-OFF 1/4" = 1'-0"



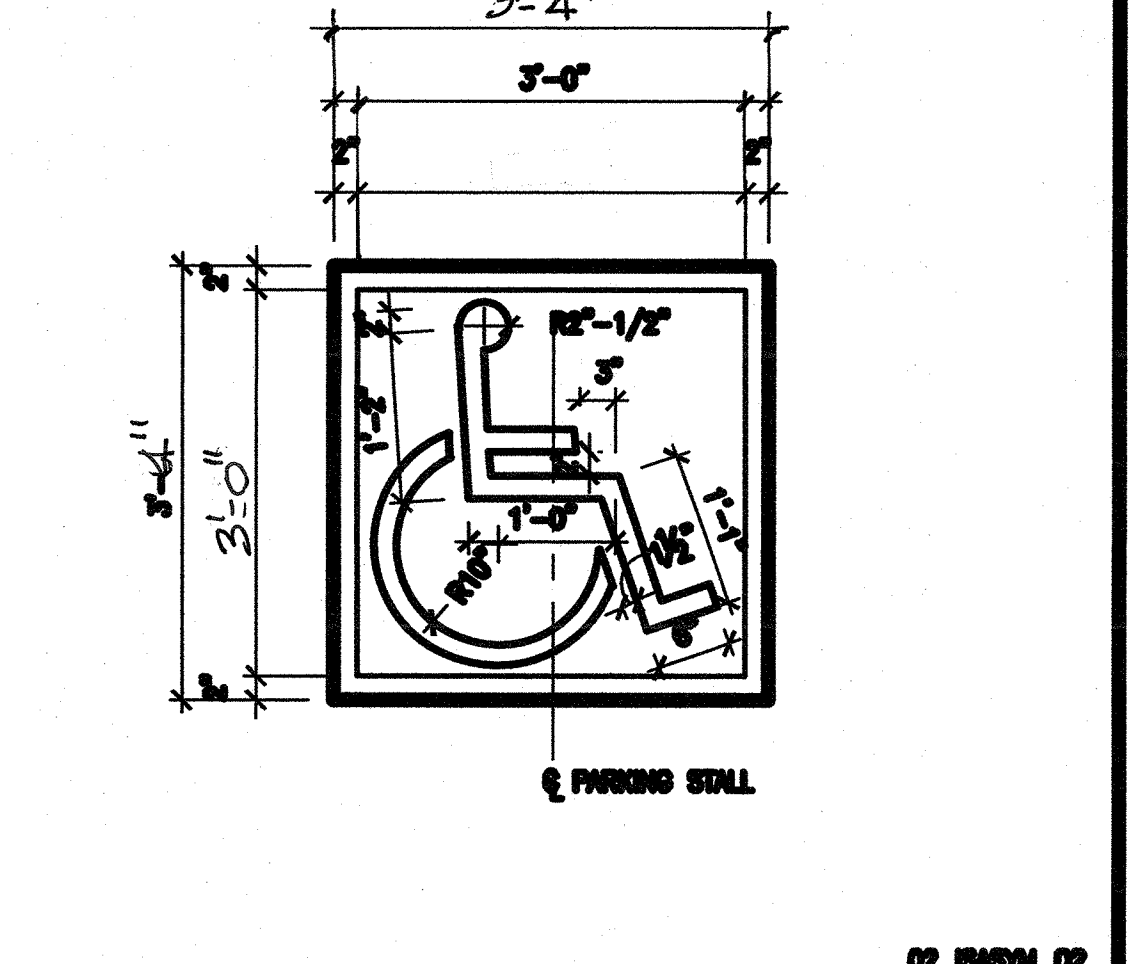
2 ACCESSIBLE PARKING PLAN EXISTING DEMO 1/8" = 1'-0"



3 EXTERIOR STAIRS AND RAILING 1" = 1'-0"

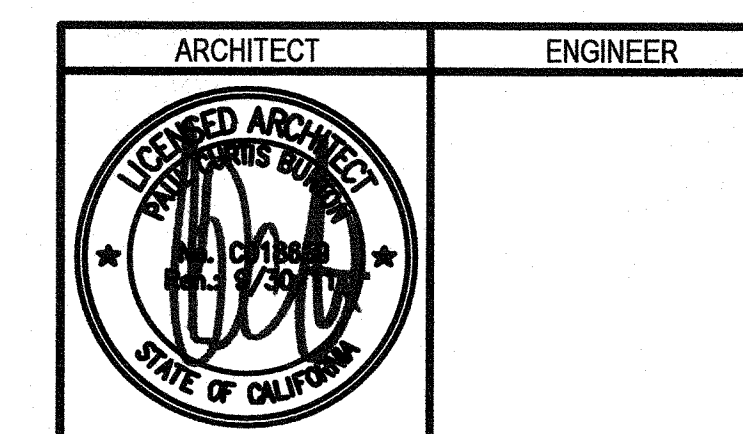


5 CONC. WHEEL STOP 1-1/2" = 1'-0"



4 ISA PARKING SIGN 3/4" = 1'-0"





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NO.	REMARKS	DATE

DESIGN STATUS

	DATE
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<input type="radio"/> DESIGN DEVELOPMENT	-
<input checked="" type="radio"/> DSA PLAN CHECK	-
<input type="radio"/> DSA BACK CHECK	-

FILE NO. 56-45

DEFINITION STAMP  
DN. OF THE STATE ARCHITECT

03-118756

DATE: 10-2-2013

**Self-Flashing Installation Instructions Appendix**

Parts List

Part	Quantity	Additional Materials and Tools	Quantity
1. Self-Flashing Unit (100 mm x 8 in 200 mm)	(1)	1. Roof Sealant	(1)
2. Flashing Screws (#10 X 2 in 50 mm)	(2)	2. Straight Edge	(1)

1. Mark Roof Location Between Structural Members and Cut Roof Opening

2. Trace Flashing Base and Apply Sealant to Flashing and Roof Deck

3. Fasten Flashing to Roof - Apply Sealant and Spread Evenly Using Straight Edge

**SOLATUBE 750 DS-C (21 IN / 530 MM) 11" SELF-FLASHING SUSPENDED CEILING WITH OPTIONAL INNER DOME & DAYLIGHT DIMMER**

DETAIL A

DETAIL B

DETAIL C

DETAIL D SCALE 3:1

FULL SECTION

TOP VIEW

SECTION

PLAN VIEW

NOTES

- 1. STRUCTURAL ELEMENTS (PLYWOOD, RAFTERS, DRYWALL ETC.) BY OTHERS & SHOWN FOR REFERENCE ONLY.
- 2. ALL TUBE JOINTS & SEAMS TAPED WITH 2" FOIL TAPE (NOT SHOWN).
- 3. DIMENSIONS IN BRACKETS ARE METRIC UNLESS OTHERWISE SPECIFIED.
- 4. 6" MIN CLEARANCE SHOULD BE MAINTAINED FROM ALL SOLATUBE COMPONENTS AND OTHER FLENUM COMPONENTS.
- 5. FOR LIGHT TUBE FLASHING INSTALLATION SEE DETAIL 28.

12 ga. BRACING WIRE IN (4) DIRECTIONS 90 DEGREES APART WITH MIN. (4) TIGHT TURNS IN 1 1/2" BOTH ENDS OF WIRE TYP.

**18 LIGHT TUBE FRAMING 1" = 1'-0"**

NEW 3/4" PLYWOOD

1/4"x3" SDS

(2) 1/4"x3" SDS ES

ADD 6"x2-1/2" X 14 GA. EA. SIDE OF NEW TUBE LIGHT.

ADD 6"x2-1/2" X 14 GA. EA. SIDE OF NEW TUBE LIGHT.

00 6" X 2-1/2" X 14 GA. PER S2.01 @ 24" O.C.

NOTE: REFER TO S201 FOR FINISH

**28 LIGHT TUBE FLASHING INSTALLATION**

**29 LIGHT TUBE ASSEMBLY DIAGRAM**

**18 LIGHT TUBE FRAMING 1" = 1'-0"**

**SOLATUBE DAYLIGHT DIMMER WIRING SCHEMATIC**

DAYLIGHT DIMMER #1 JUNCTION BOX

DAYLIGHT DIMMER #2 JUNCTION BOX

DAYLIGHT DIMMER #3 JUNCTION BOX

5 VDC 1 AMP (max) POWER SUPPLY

5 VDC 1 AMP (max) POWER SUPPLY

5 VDC 1 AMP (max) POWER SUPPLY

DPDT MOMENTARY SWITCH

POSITION 1 (ON)

POSITION 2 (CENTER OFF)

POSITION 3 (ON)

NOTE:

VOLTAGE AT SWITCH IS ≤ 5 VDC (DEPENDENT ON LENGTH OF CONDUCTOR) CURRENT AT SWITCH IS ~0.5 mA

SUPPLY CABLE (3 CONDUCTOR)  
G = GROUND 12-16 AWG INSULATED SOLID COPPER  
N = NEUTRAL 12-16 AWG INSULATED SOLID COPPER  
L = LINE 12-16 AWG INSULATED SOLID COPPER

CABLE (2 CONDUCTOR)  
B = BLACK 22 AWG 7X30 INSULATED STRANDED COPPER  
R = RED 22 AWG 7X30 INSULATED STRANDED COPPER

CABLE (4 CONDUCTOR)  
B = BLACK 22 AWG 7X30 INSULATED STRANDED COPPER  
R = RED 22 AWG 7X30 INSULATED STRANDED COPPER  
W = WHITE 22 AWG 7X30 INSULATED STRANDED COPPER  
Gr = GREEN 22 AWG 7X30 INSULATED STRANDED COPPER

General Contractor shall install independent daylight dimmer switch at the (2) new solatubes in room A04 and a daylight dimmer switch to the new solatube at room A09.1. GC shall rough-in and pull home run wiring to spare circuit in the (e) electrical panel located in the closet in room A11 or tie-into existing lighting circuit

**30 LIGHT TUBE DAYLIGHT DIMMER WIRING SCHEMATIC**

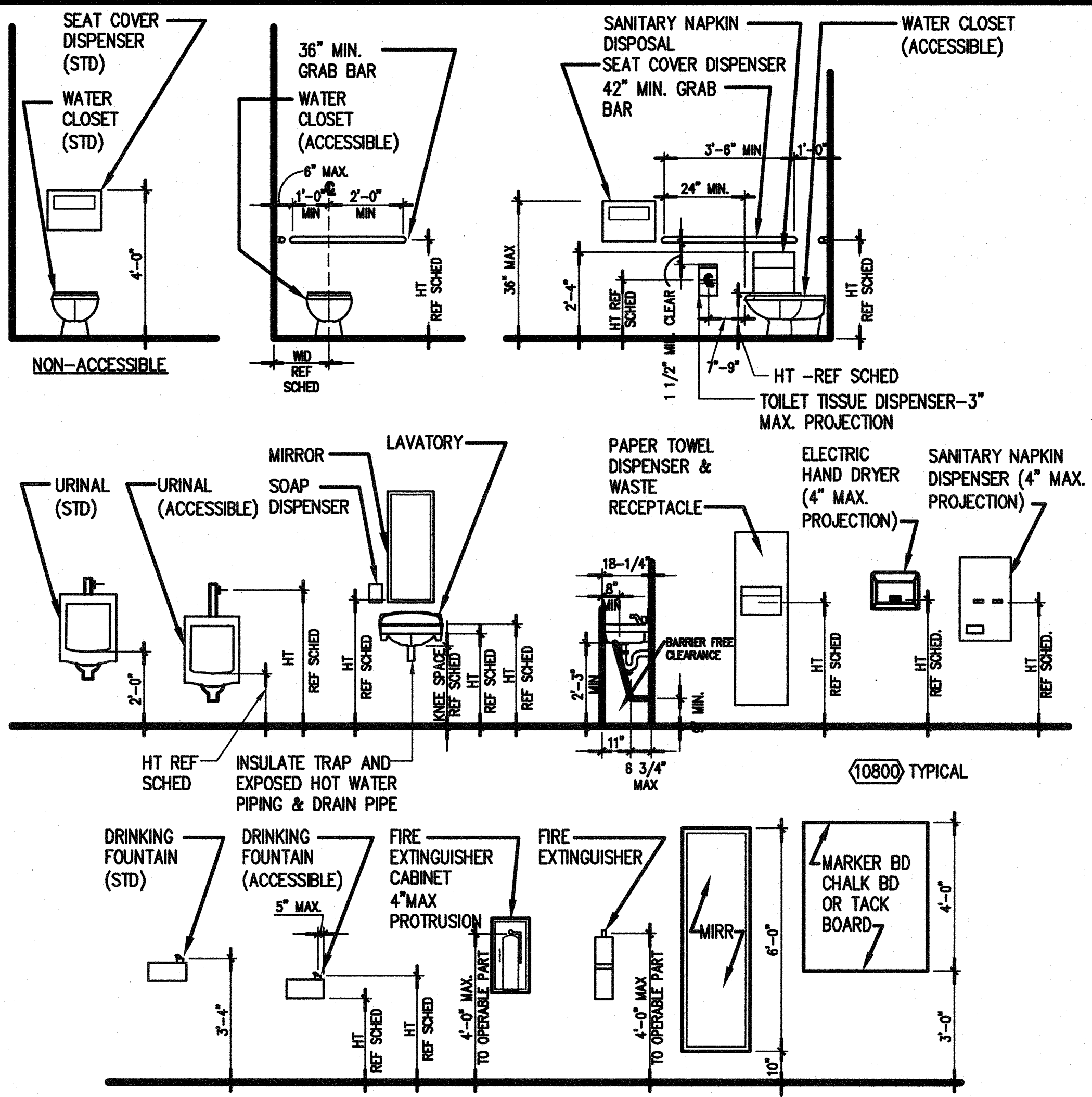
**Key Plan**

**BROOKSIDE ELEMENTARY ADMINISTRATION BUILDING**  
OAK PARK UNIFIED SCHOOL DISTRICT

165 N. SATINWOOD DRIVE OAK PARK CALIFORNIA 91301

**LIGHT TUBE DETAILS**

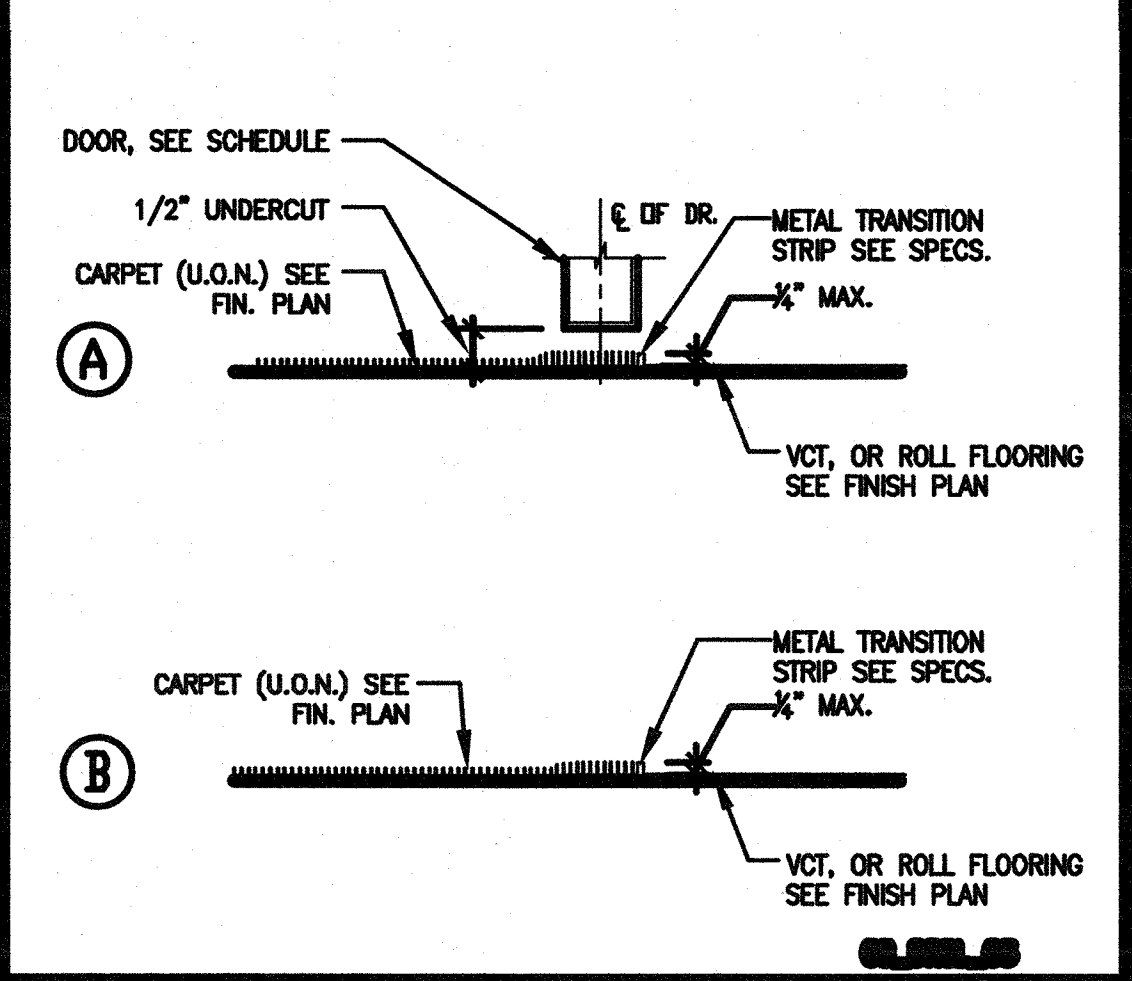
Date: 11/06/2017  
Scale: AS NOTED  
Project Number: 17038  
Drawing Number: A10.9.1.1



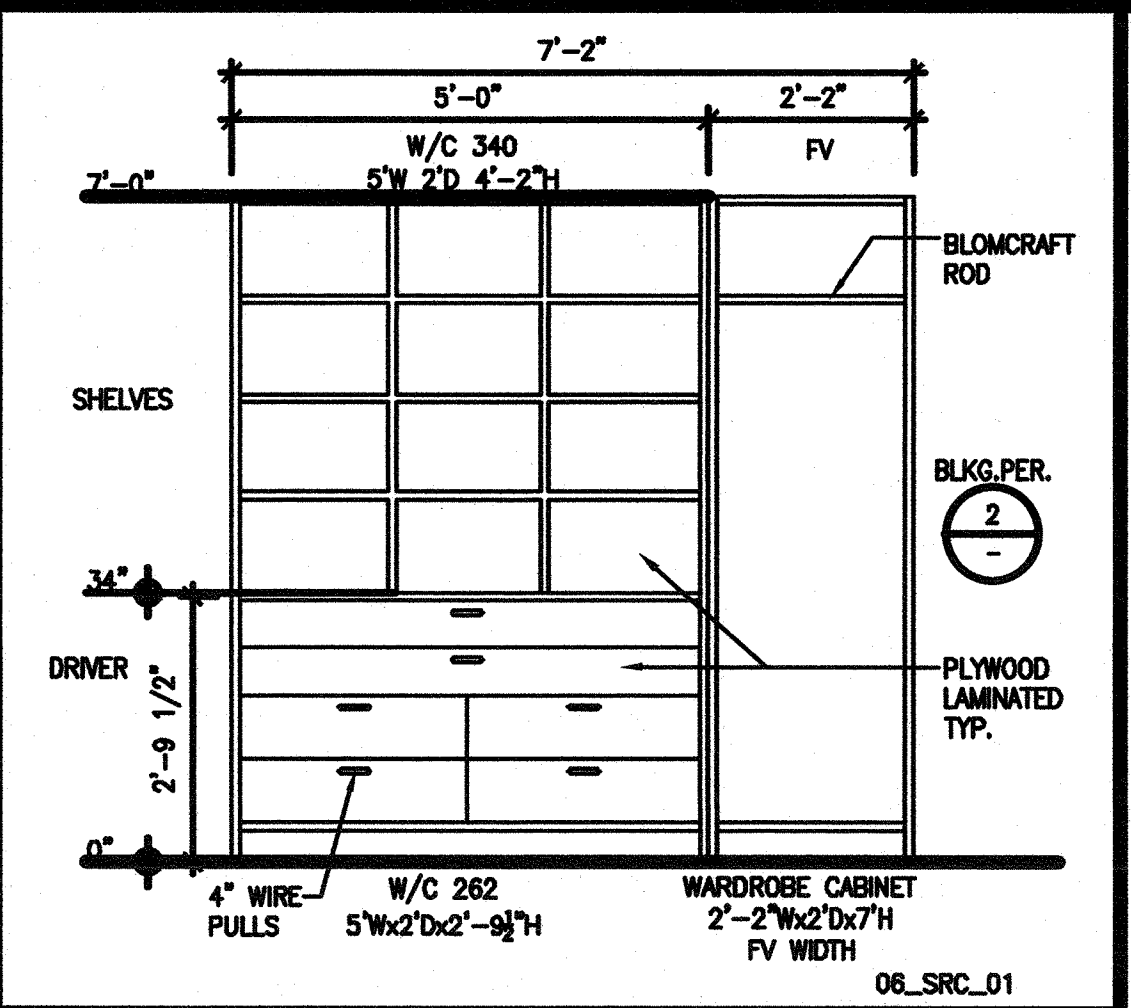
FIXTURE	REQUIRED DIMENSION (PER SECTION 11B DIVISION 6)			RECOMMENDED MANF.
	A	AGES 5-8	AGES 9-12	
TOILET CENTER LINE FROM WALL (FACE OF FINISH)	17"-18"	12"-15"	15"-18"	
TOILET SEAT HEIGHT (TOP OF SEAT)	17"-19"	12"-15"	15"-17"	
TOP OF GRAB BAR GRIPPING SURFACE	33"-36"	20"-25"	25"-27"	BOBRICK 5806
CENTERLINE TOILET PAPER DISPENSER TO FRONT OF TOILET		7"-9"		BOBRICK 2888, 3888 & 6677
T.P. DISPENSER OUTLET	19" MIN.	14"-17"	17"-19"	BOBRICK 353 & 354
NAPKIN DISPOSAL, A.F.F.	3'-4" MAX	-	3'-0" MAX	BOBRICK 353 & 354
DISPENSER (SOAP, PAPER TOWEL/WASTE RECEPTACLE, HAND DRYER, A.F.F.)	3'-4" MAX	3'-0" MAX	3'-0" MAX	BOBRICK 412, GEORGIA PACIFIC ENMOTION, BOBRICK 3644 & 750
MIRROR HEIGHT (BOTTOM EDGE OF REFLECTING SURFACE)	40" MAX (ABOVE LAV OR COUNTERTOP)			BOBRICK 290
MIRROR HEIGHT (BOTTOM EDGE OF REFLECTING SURFACE) IN DRESSING, FITTING & LOCKER ROOMS	35" MAX (NOT ABOVE LAV NOR COUNTER TOP)			
LAVATORY/SINK TOP HEIGHT	34" MAX	31" MAX	31" MAX	
LAVATORY/SINK KNEE CLEARANCE	27" MIN. (29" MIN. AT APRON FOR LAVATORY)	AGE 6-8, 24" MIN. AGE 5, PARALLEL APPROACH PERMITTED	24" MIN	
URINAL LIP HEIGHT		17" MAX		
URINAL PROJECTION		13-1/2" MIN.		
URINAL FLUSH HANDLE HEIGHT		44" MAX		
HIGH D.F. SPOUT HEIGHT		38"-43" MAX		
LOW D.F. APPROACH, SPOUT HEIGHT & SPOUT LOCATION FROM FRONT EDGE OF THE UNIT INCLUDING BUMPERS	FRONT APPROACH PER 11B-306, 36" MAX. A.F.F. & 5" MAX. FROM FRONT EDGE OF THE UNIT	PARALLEL APPROACH IS PERMITTED I.E. SPOUT IS 30" MAX. A.F.F. & 3 1/2" MAX. FROM FRONT EDGE OF THE UNIT		
D.F. OPERABLE PARTS		6" MAX. FROM FRONT EDGE OF THE UNIT		
DRINKING FOUNTAIN KNEE CLEARANCE	2'-3" MIN	2'-0" MIN		
CANTILEVER D.F. PROJECTION	18"-19"	-		
TOE CLEARANCE AT TOILET PARTITION	9" MIN.	12" MIN.	12" MIN.	
SHelf HEIGHT		40"-48"		
RAMP/STAIR HANDRAIL HEIGHT	2'-10" TO 3'-2"	2'-3". IN ADDITION TO ADULT RAIL		

**LEGEND**  
 A = ADULT DIMENSIONS (AGE 12 AND OVER)  
**NOTES**  
 1. ALL FIXTURES AND ACCESSORIES ARE ACCESSIBLE UNLESS OTHERWISE NOTED.  
 2. SEE ENLARGED TOILET PLAN DRAWINGS FOR TOILET ACCESSORY LOCATIONS.

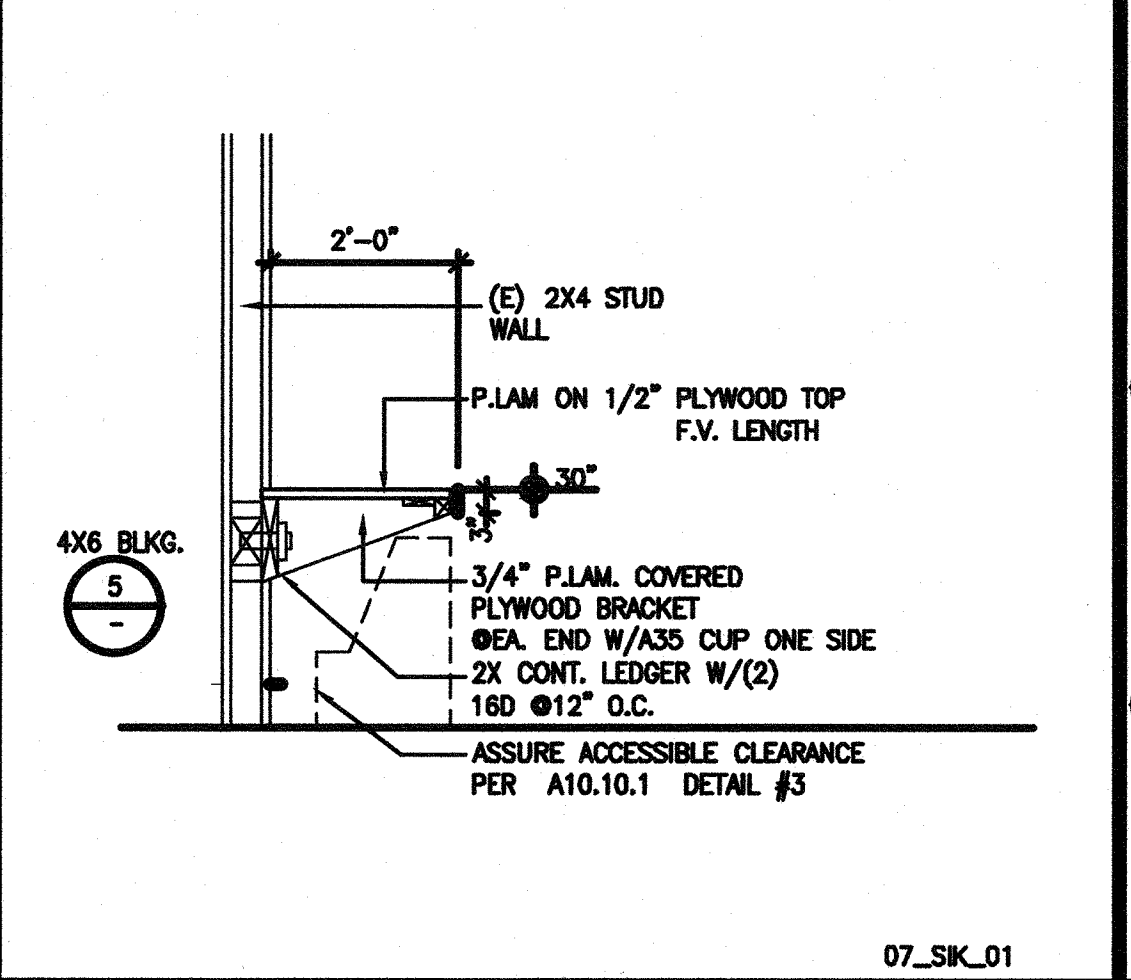
**29 MOUNTING HEIGHT SCHEDULE** 3/8" = 1'-0"



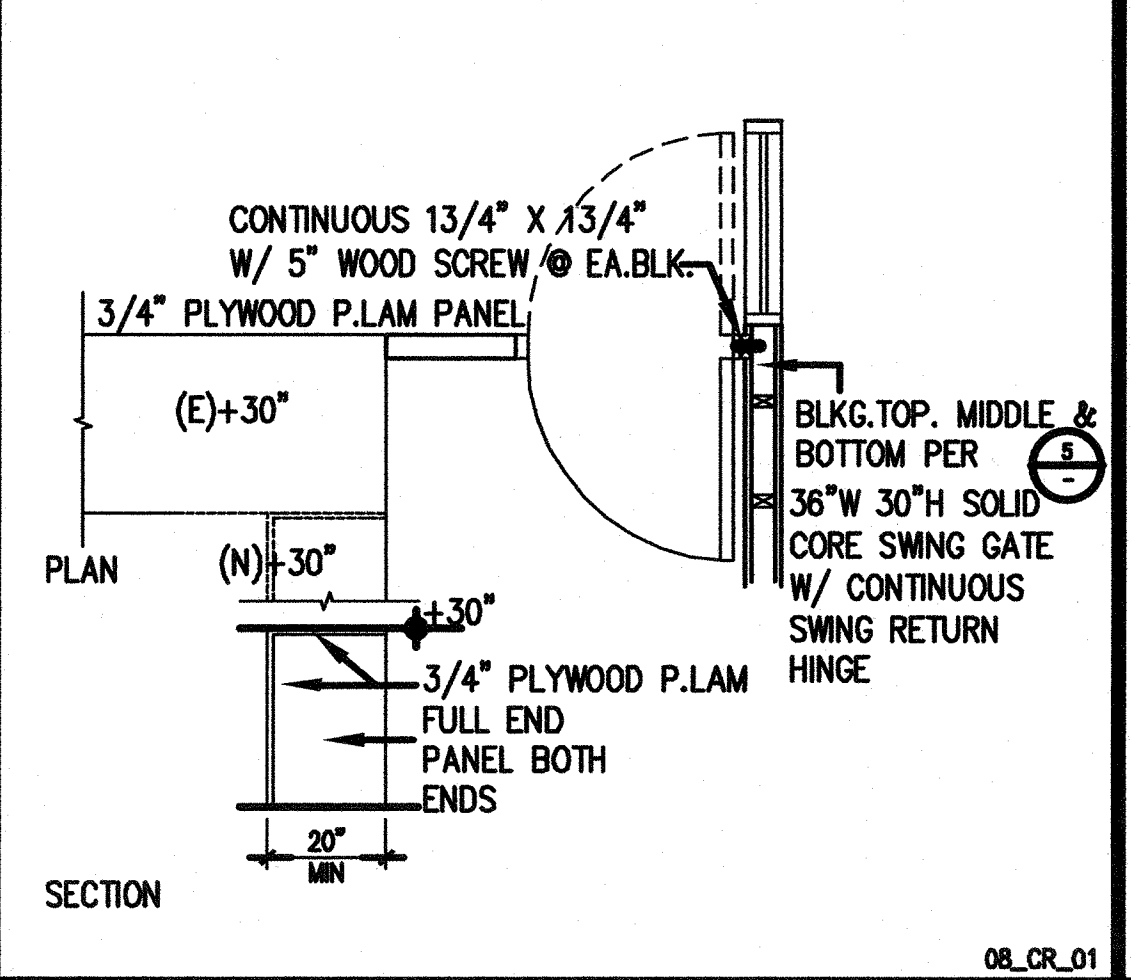
**30 THRESHOLD** 3" = 1'-0"



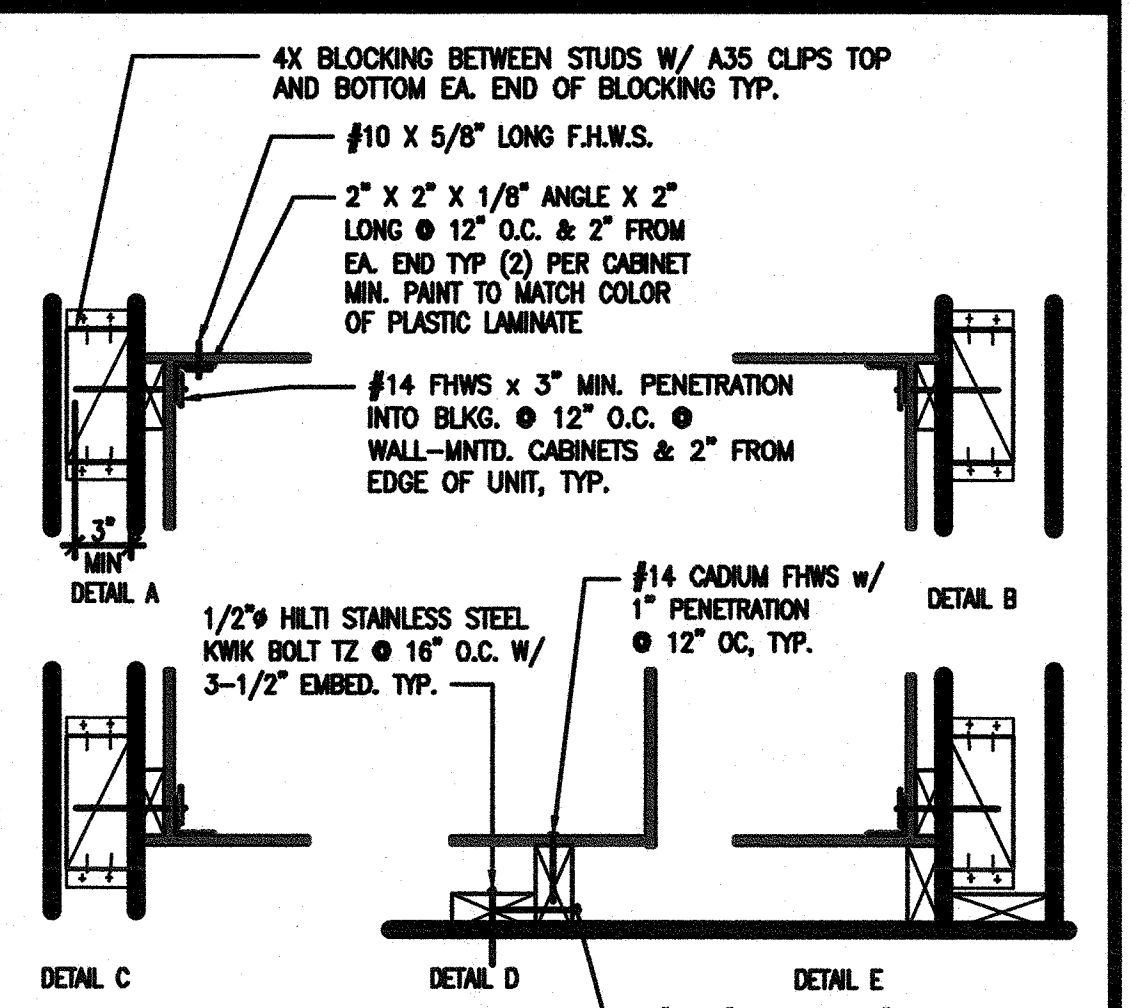
**6 STORAGE ROOM CABINET** 1/2" = 1'-0"



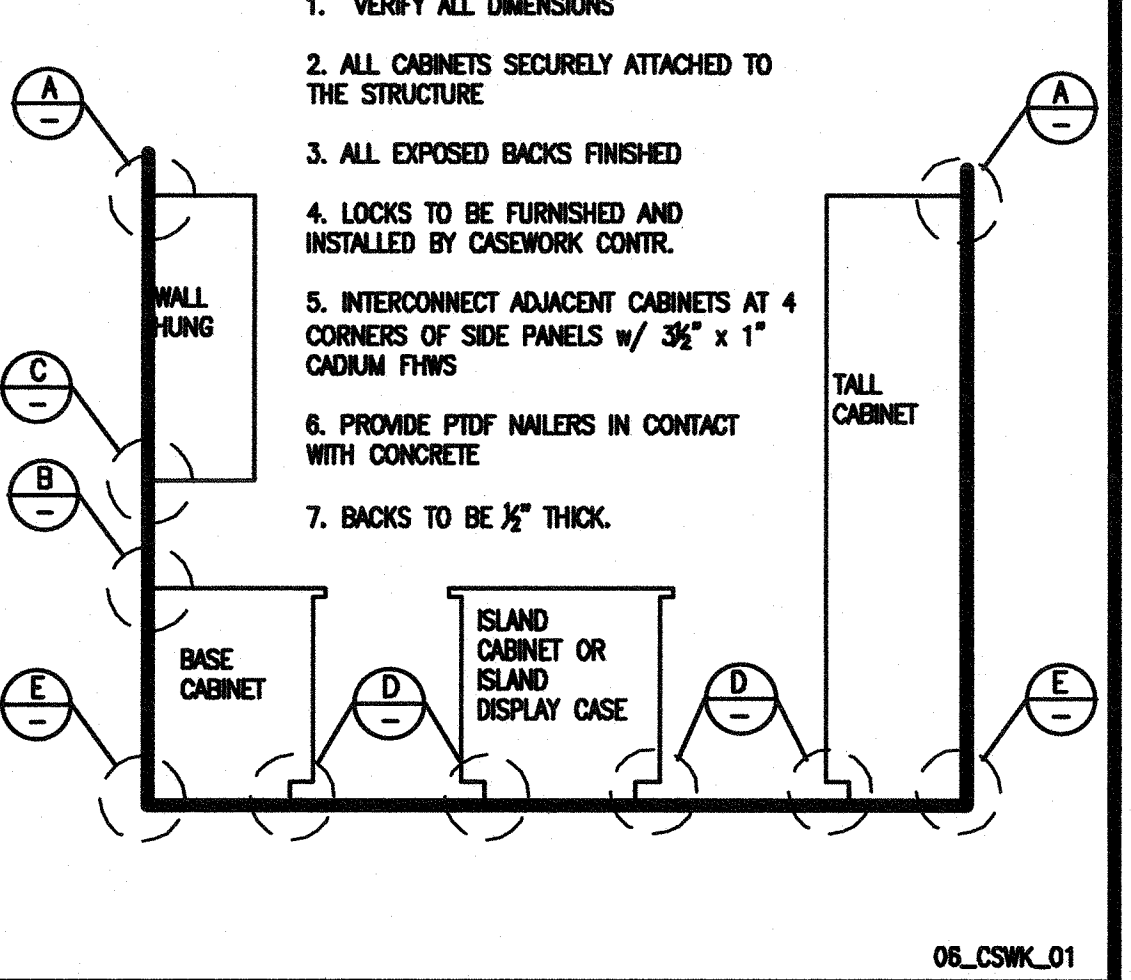
**7 SIGN IN KIOSK** 1/2" = 1'-0"



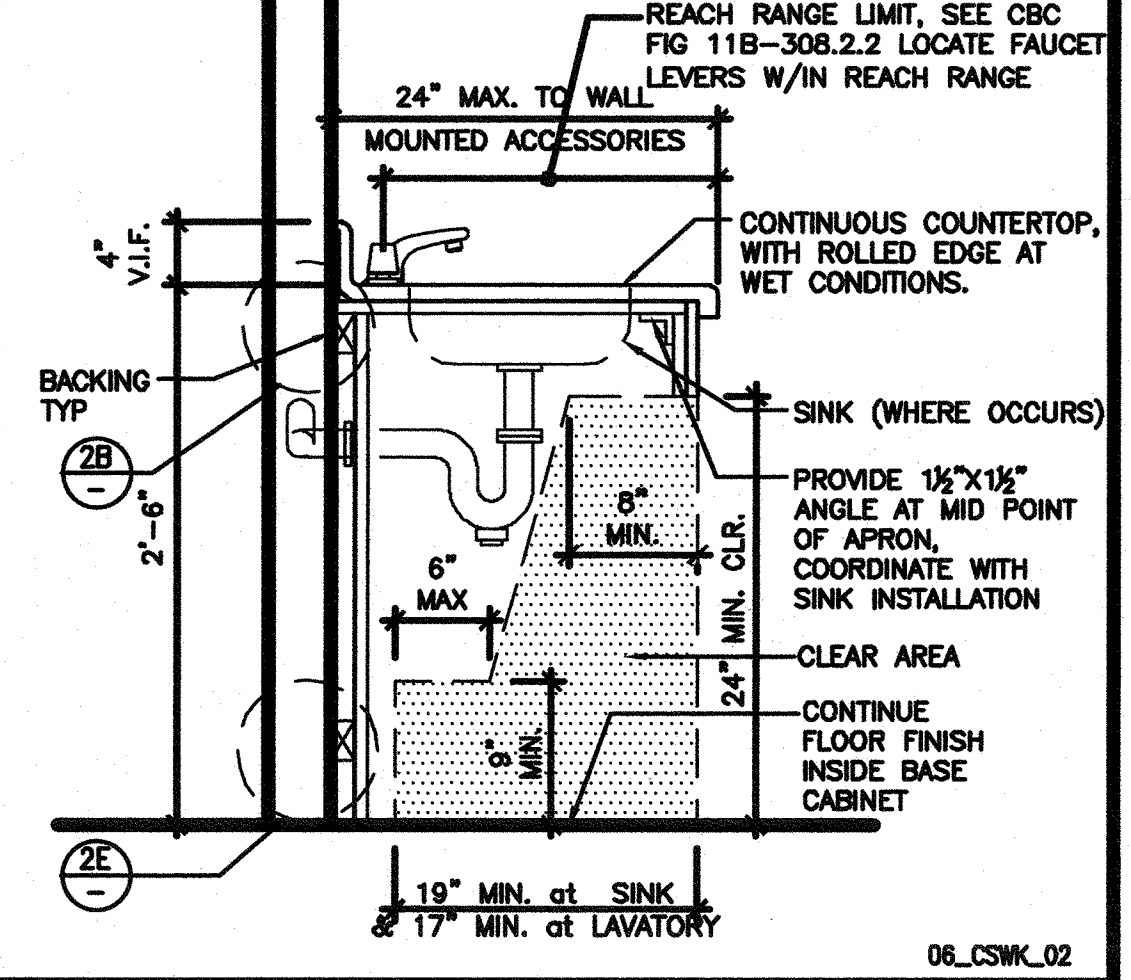
**8 CABINET RETURN** 3/8" = 1'-0"



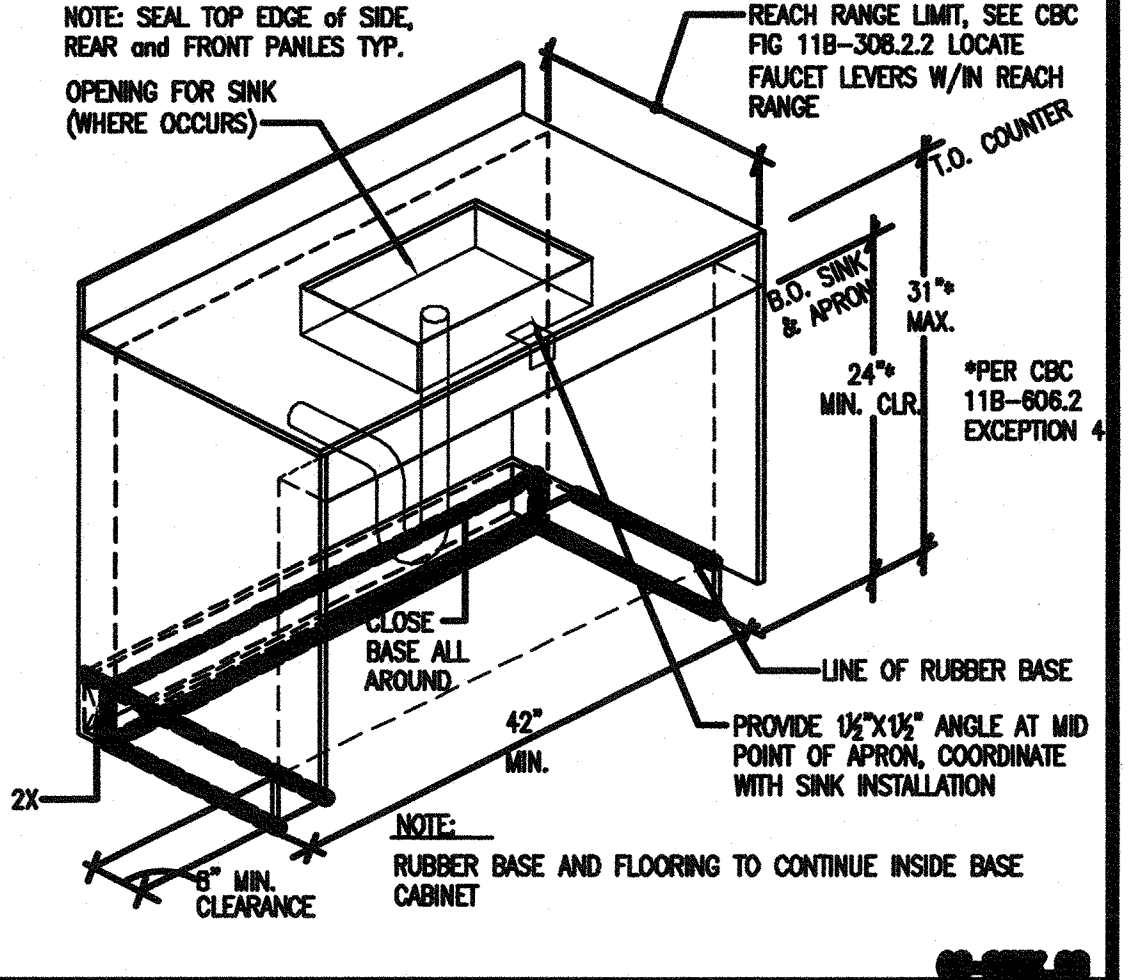
**2 CASEWORK ANCHORAGE** 1/2"



**3 ACCESSIBLE BASE CABINET** 1'

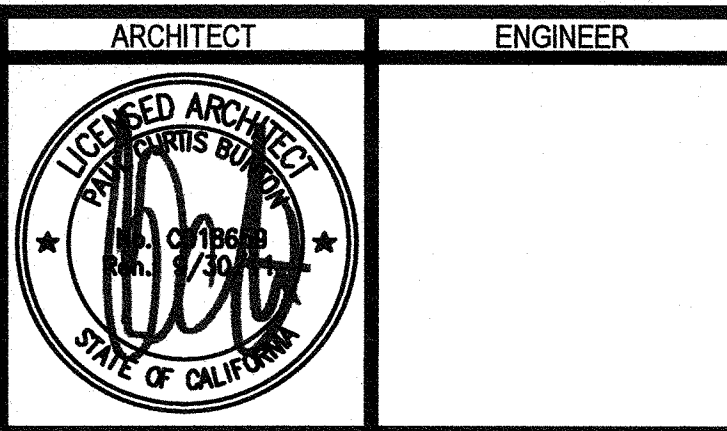


**4 ADA ACCESSIBLE SINK** 3/4"



**5 GRAB BAR ANCHORAGE** 3"

BCA Architects  
 505 S. Market St.  
 San Jose, California 95113  
 [T] 408.588.3800  
 [F] 408.588.3805  
 www.BCAarchitects.com

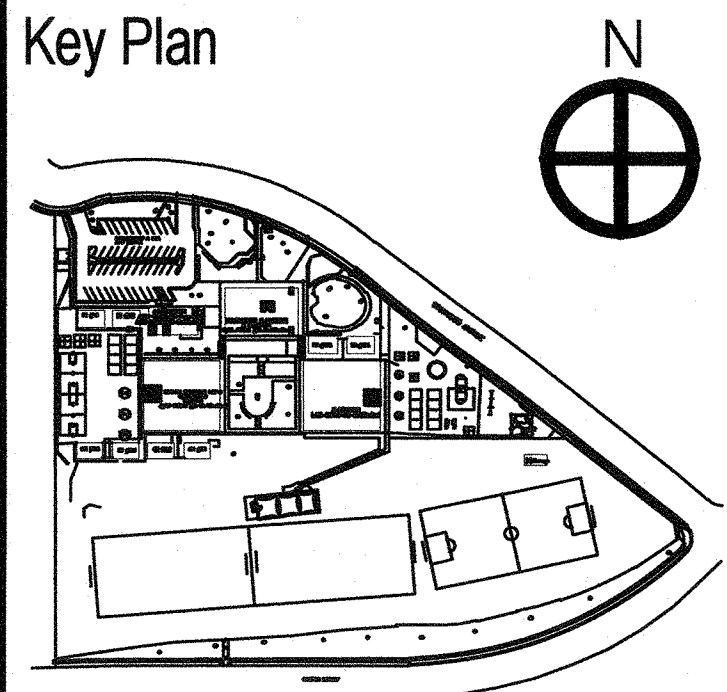


1. This sheet is part of a set and is not to be used alone.  
 2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction.  
 3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.  
 4. Copyright Burton Clifford Associates, 2011

NO.	REMARKS	DATE

DATE  
 10-2-2017

FILE NO. 56-45  
 03-118756  
 DATE 10-2-2017



**BROOKSIDE ELEMENTARY**  
 ADMINISTRATION BUILDING  
 OAK PARK UNIFIED SCHOOL  
 DISTRICT

165 N. SATINWOOD DRIVE OAK  
 PARK CALIFORNIA 91301

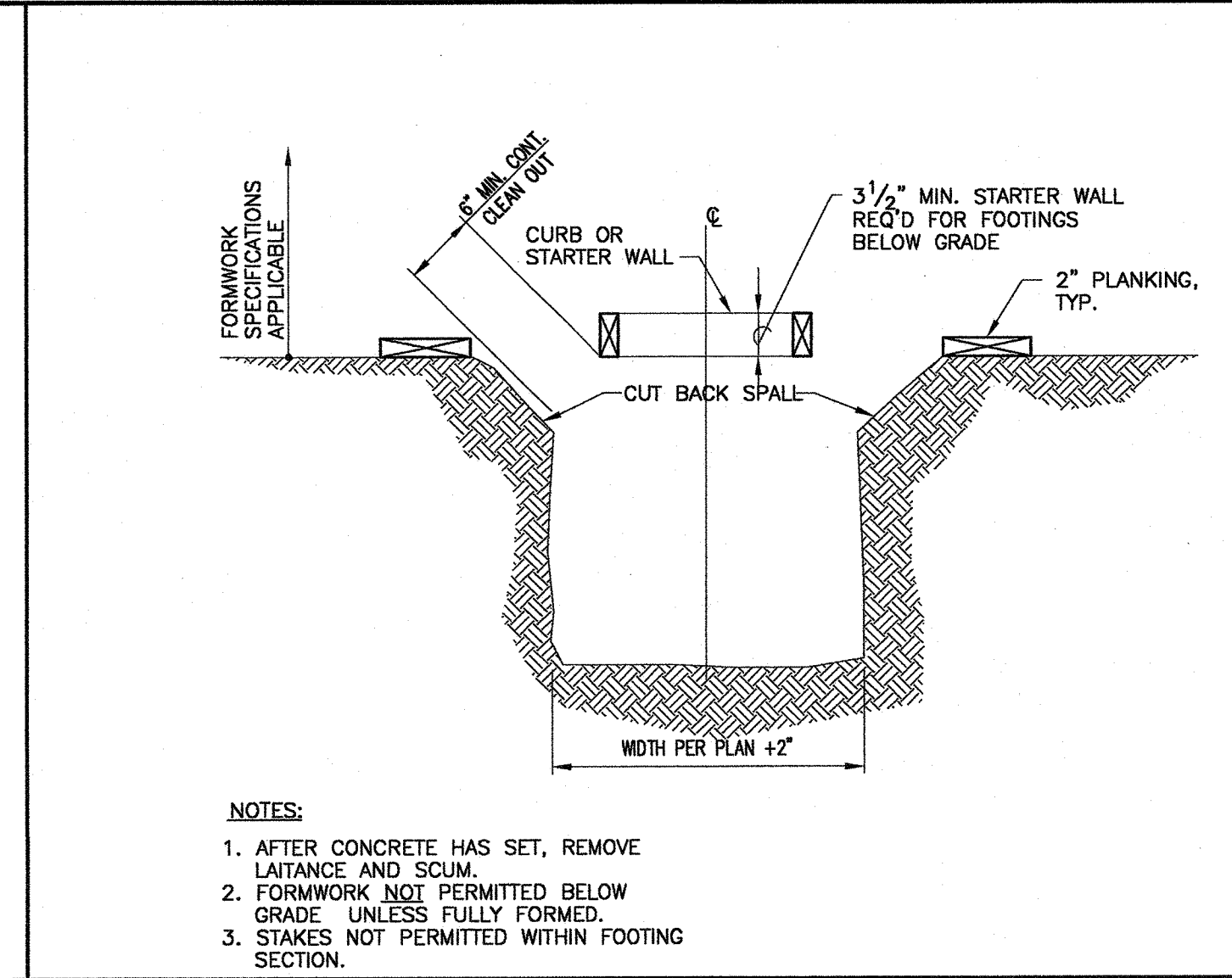
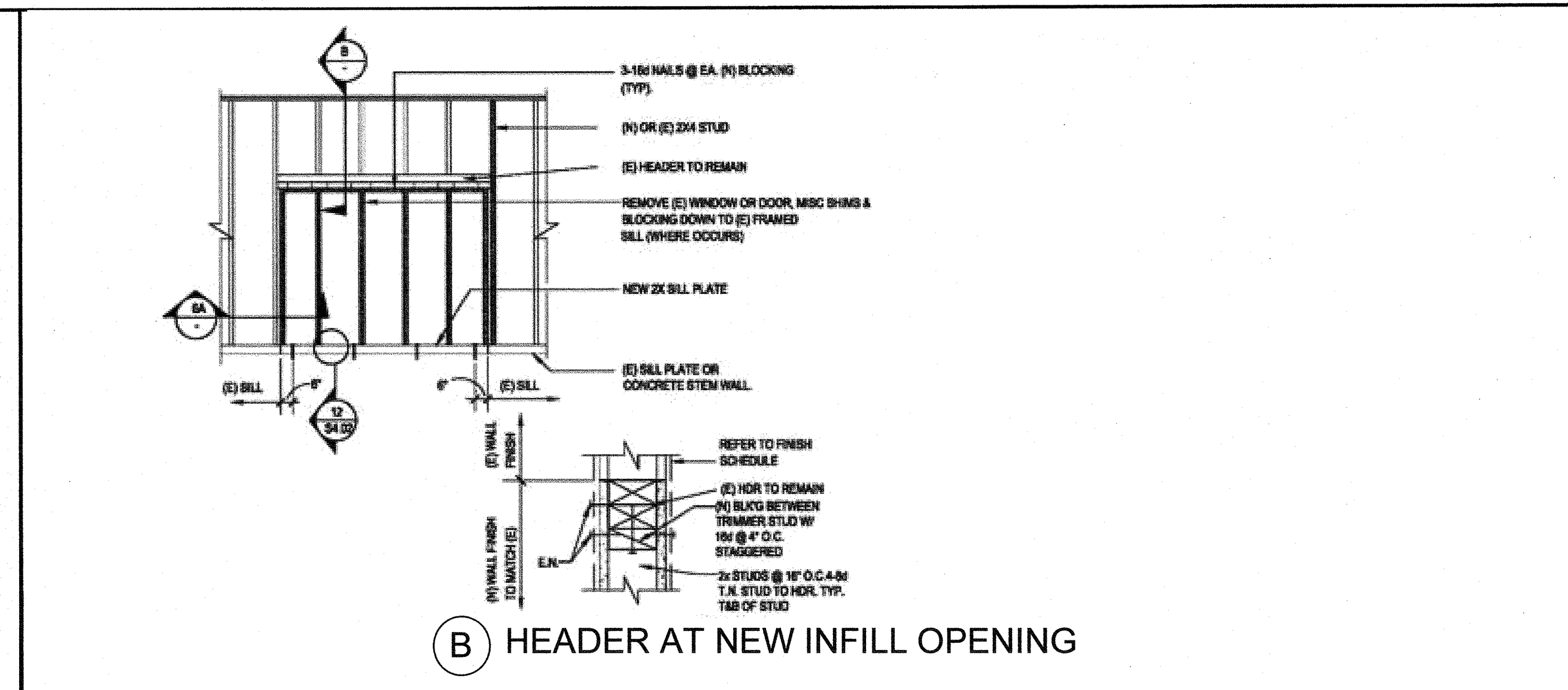
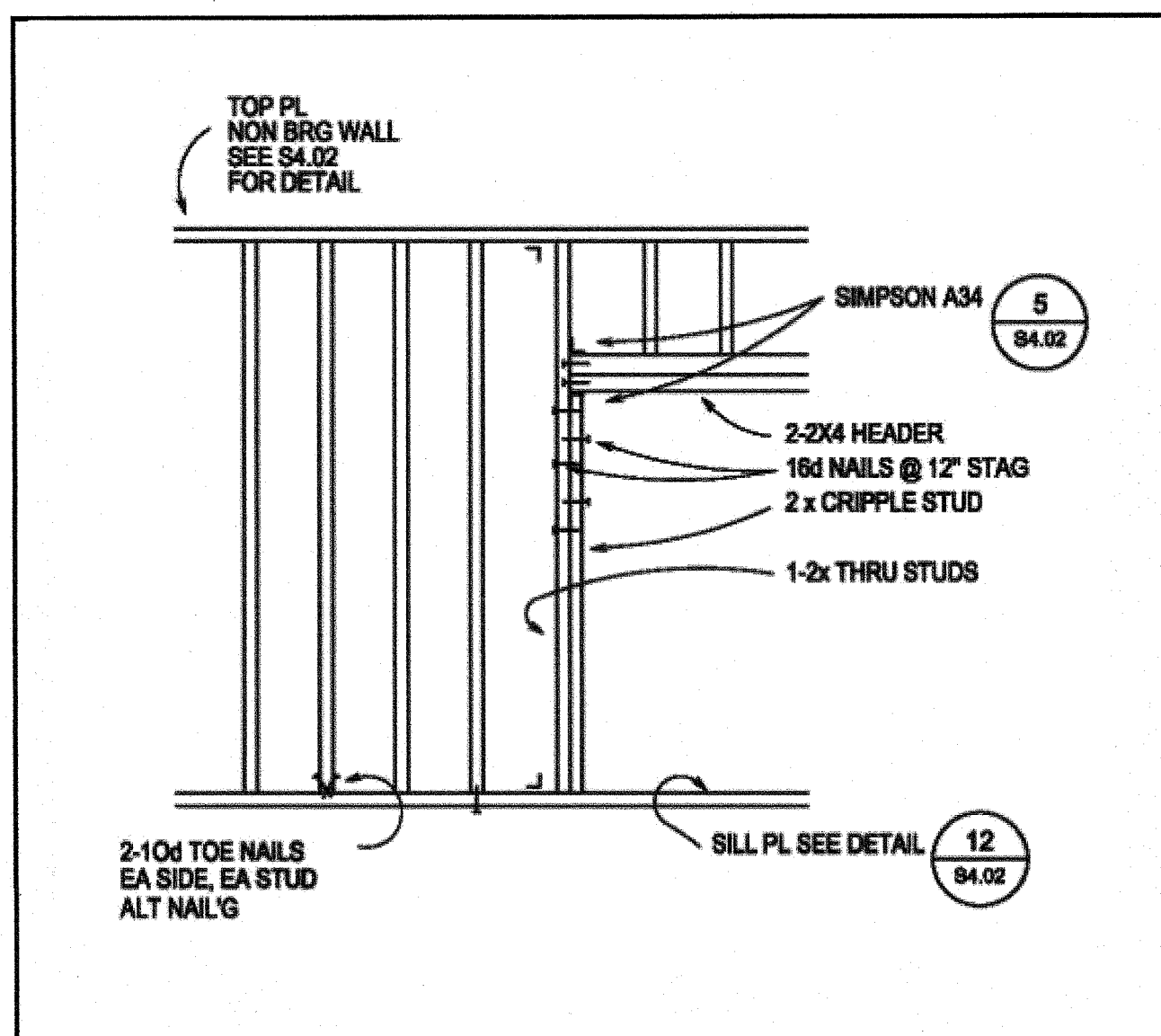
SPECIALTY DETAILS

Date 11/06/2017 Drawing Number  
 Scale AS NOTED  
 Project Number 17038

A10.10.1



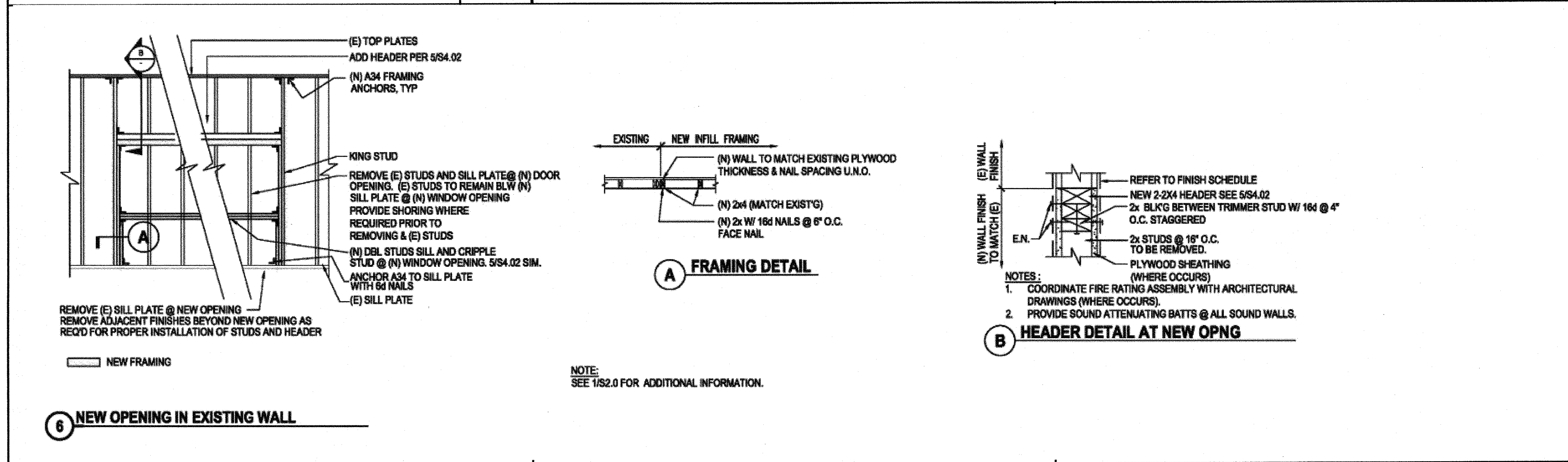




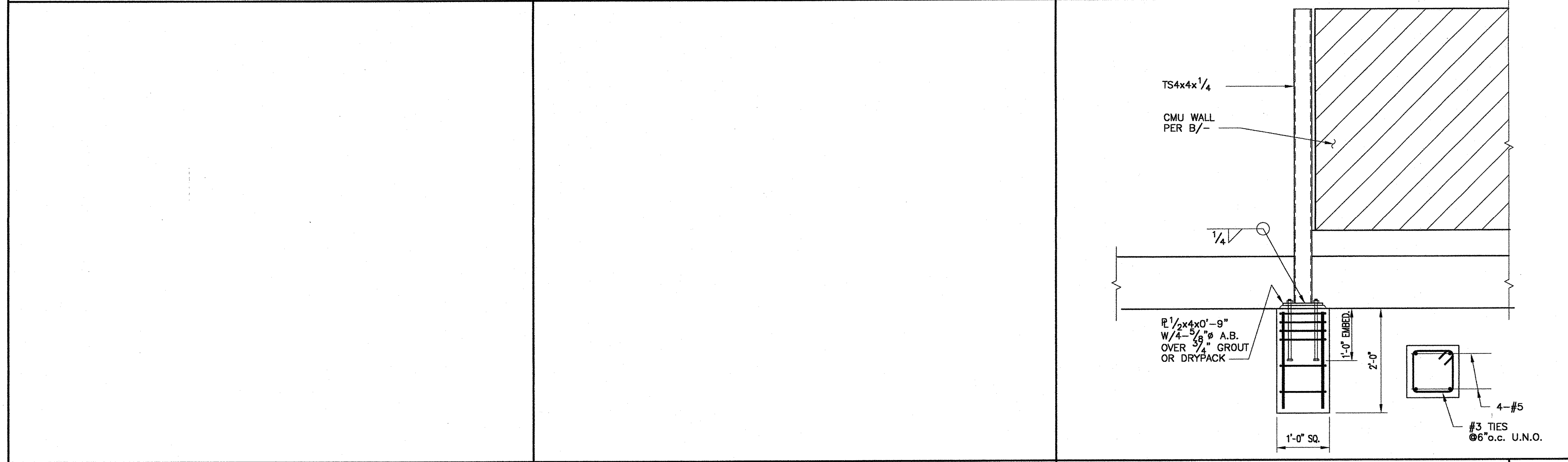
TYPICAL WALL FRAMING 1

TYPICAL WALL INFILL 5

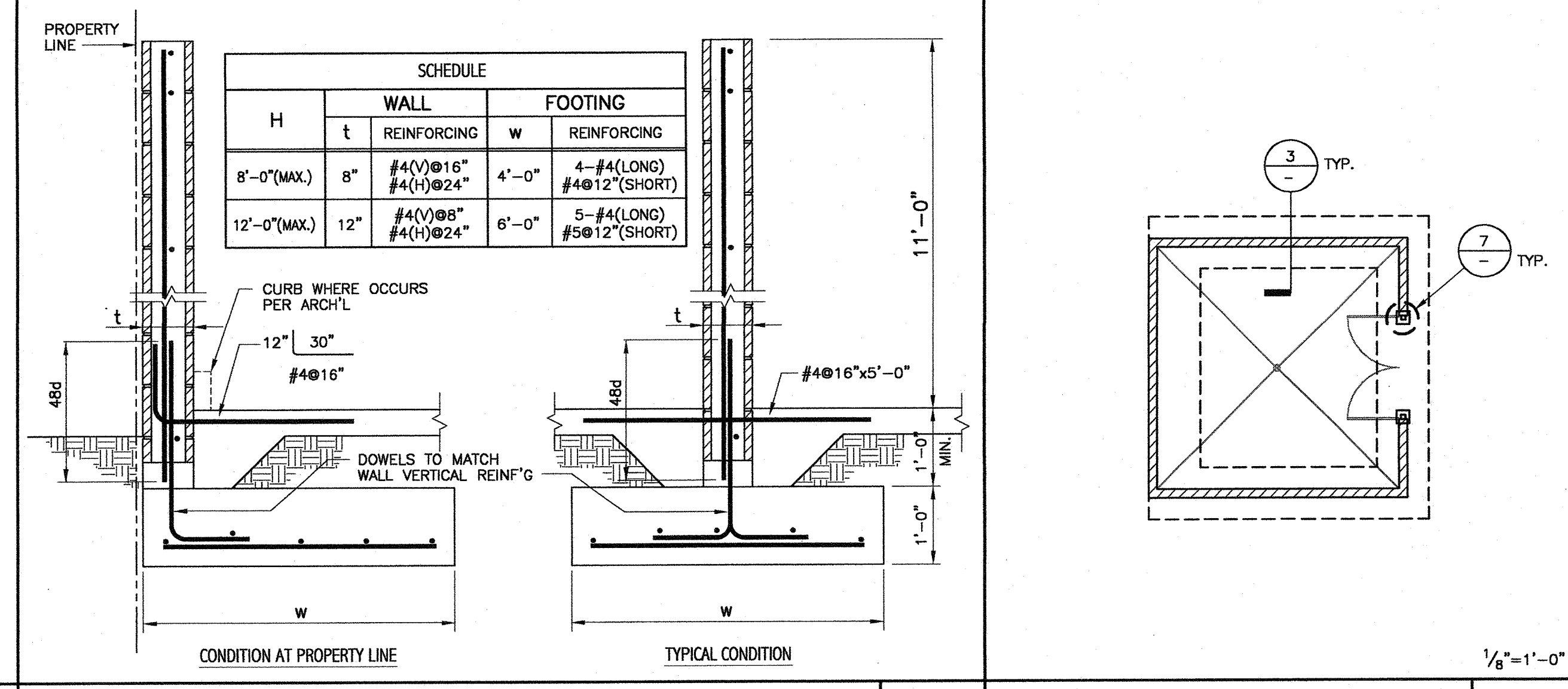
FOUNDATIONS - MANDATORY MIN. FORMWORK 2



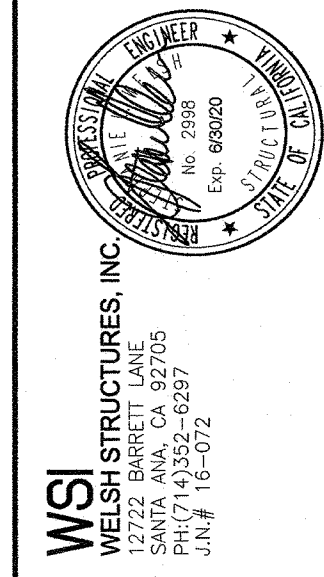
NEW OPENING IN EXISTING WALL 6



DETAIL 7



TYPICAL MASONRY WALL FENCE DETAILS 3



**BROOKSIDE ELEMENTARY SCHOOL**

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AC / FLS / SS / TB  
Date 10-2-2018

165 N. SATINWOOD DR  
OAK PARK, CA 91301

**DESIGN LOADS**

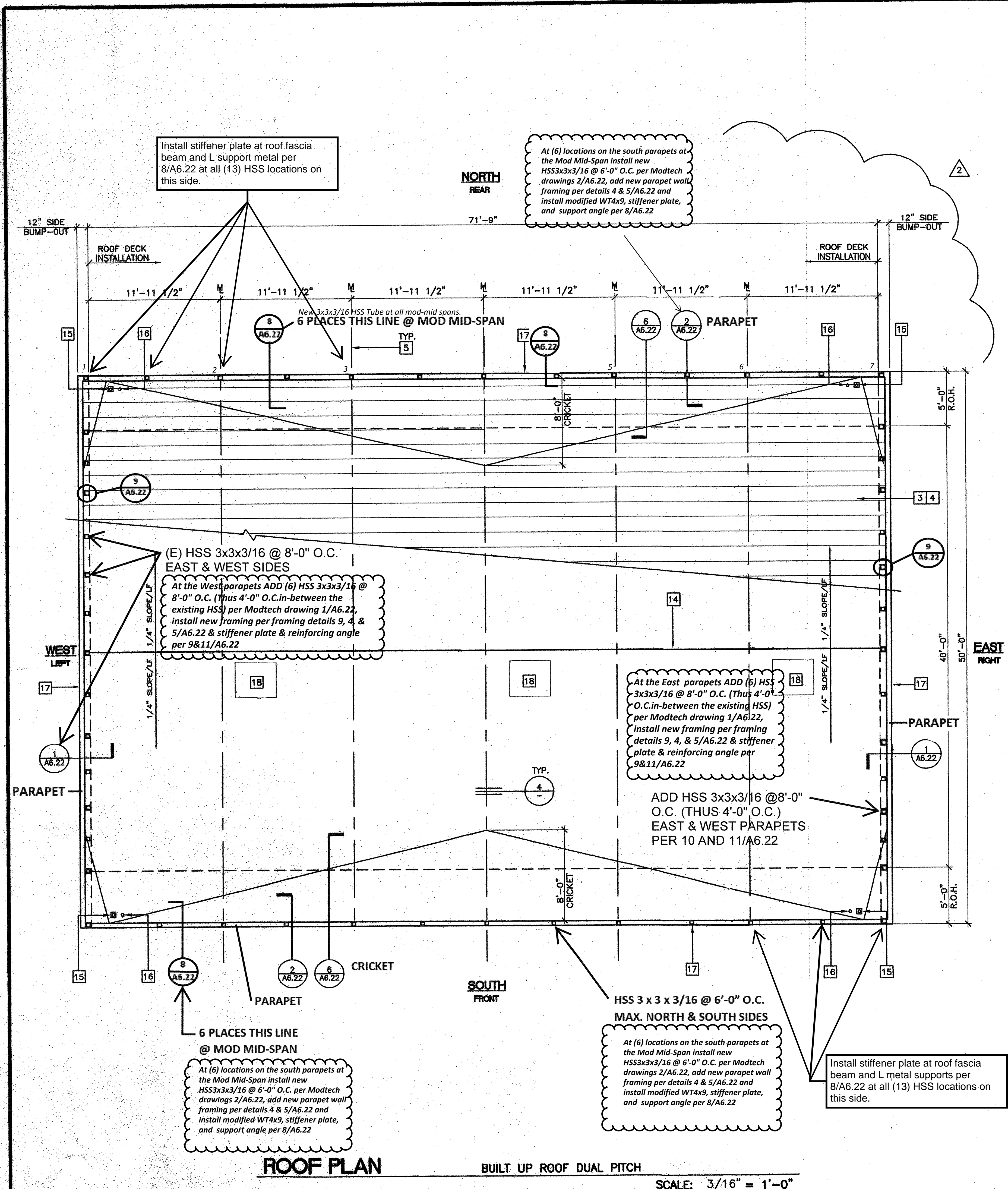
1. WIND DESIGN LOADS PER ASCE 7-10	3. ROOF VERTICAL LOAD
BASIC WIND SPEED.....115 MPH	ROOF DEAD LOAD 13 PSF
EXPOSURE..... C	ROOF LIVE LOAD 20 PSF (REDUCIBLE)
TOPOGRAPHIC FACTOR, $K_{zt}$ .....1.0	FLOOR DEAD LOAD 28 PSF
VELOCITY PRESSURE EXPOSURE, $K_e$ .....0.85	FLOOR LIVE LOAD 50 PSF
DIRECTIONAL FACTOR, $K_d$ .....0.85	
GUST FACTOR, G.....0.85	
2. SEISMIC DESIGN LOADS	
OCCUPANCY CATEGORY.....II	
SITE CLASS.....D	
SEISMIC DESIGN CATEGORY.....D	
IMPORTANCE FACTOR.....1.0	
$S_s = 1.5$ $F_a = 1.0$	
$S_1 = 0.6$ $F_v = 1.5$	
$S_{0.5} = 1.0$ $R = 3.5$ (OMF)	
$S_{0.1} = 0.6$	

SECTIONS AND DETAILS

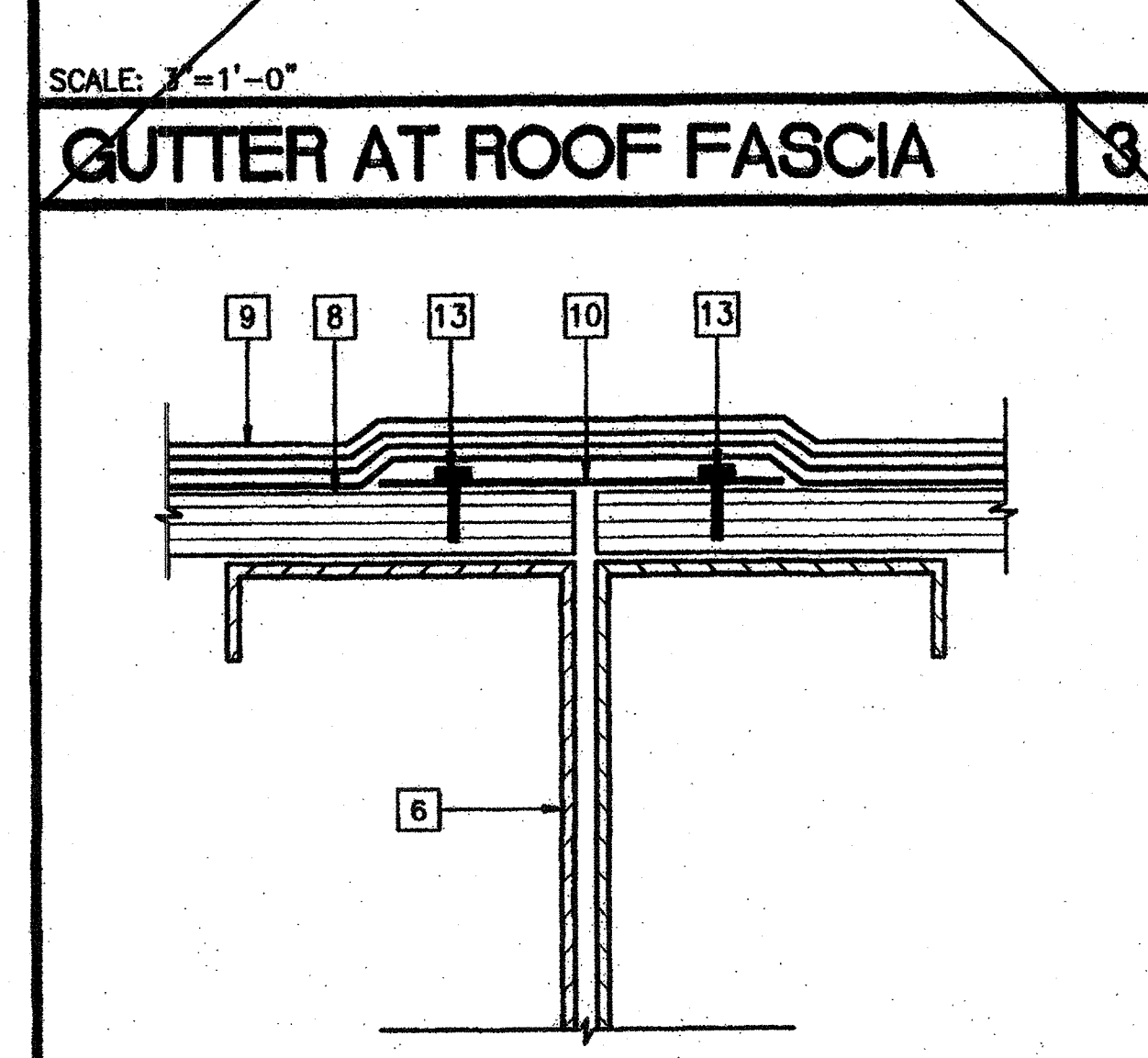
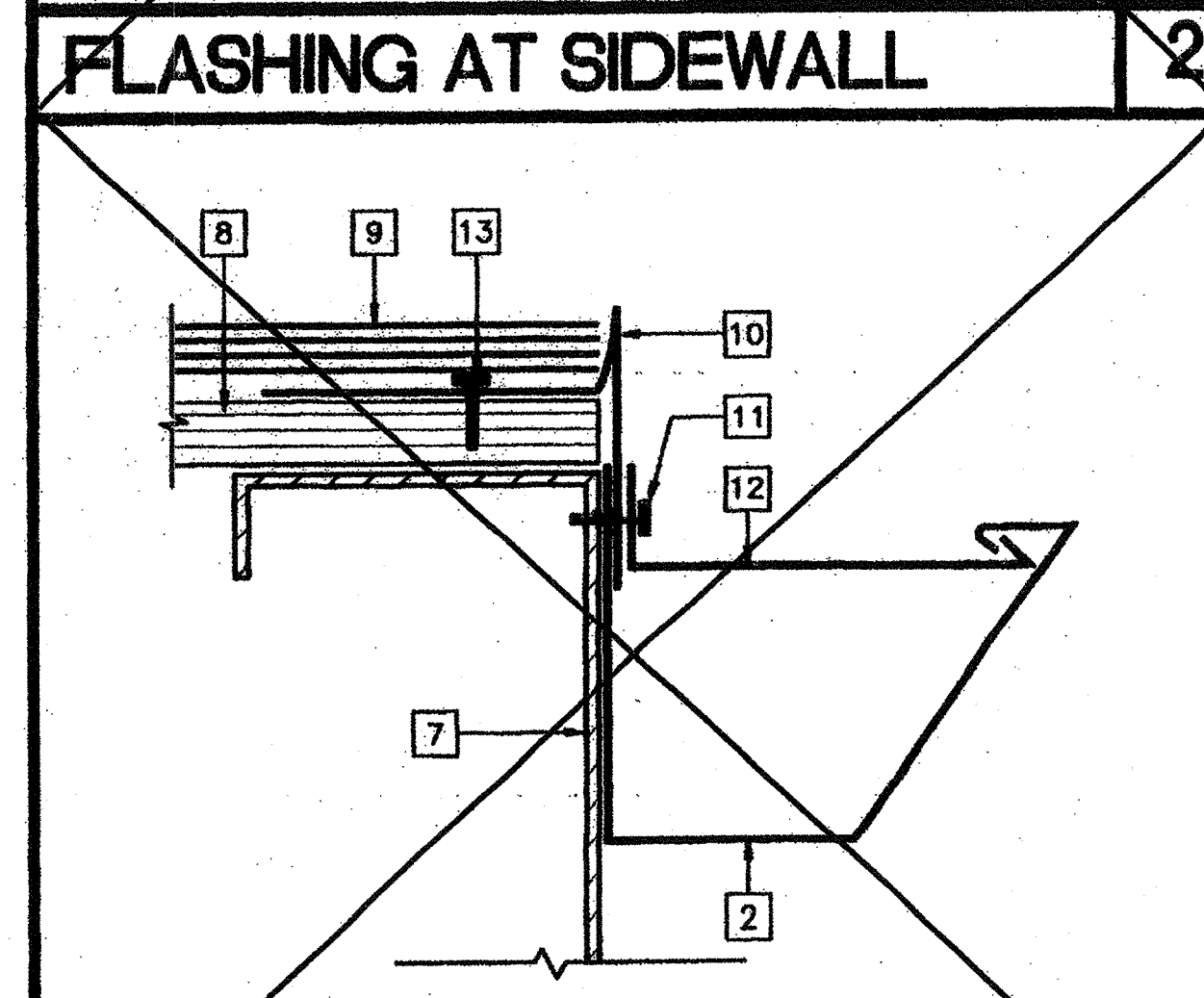
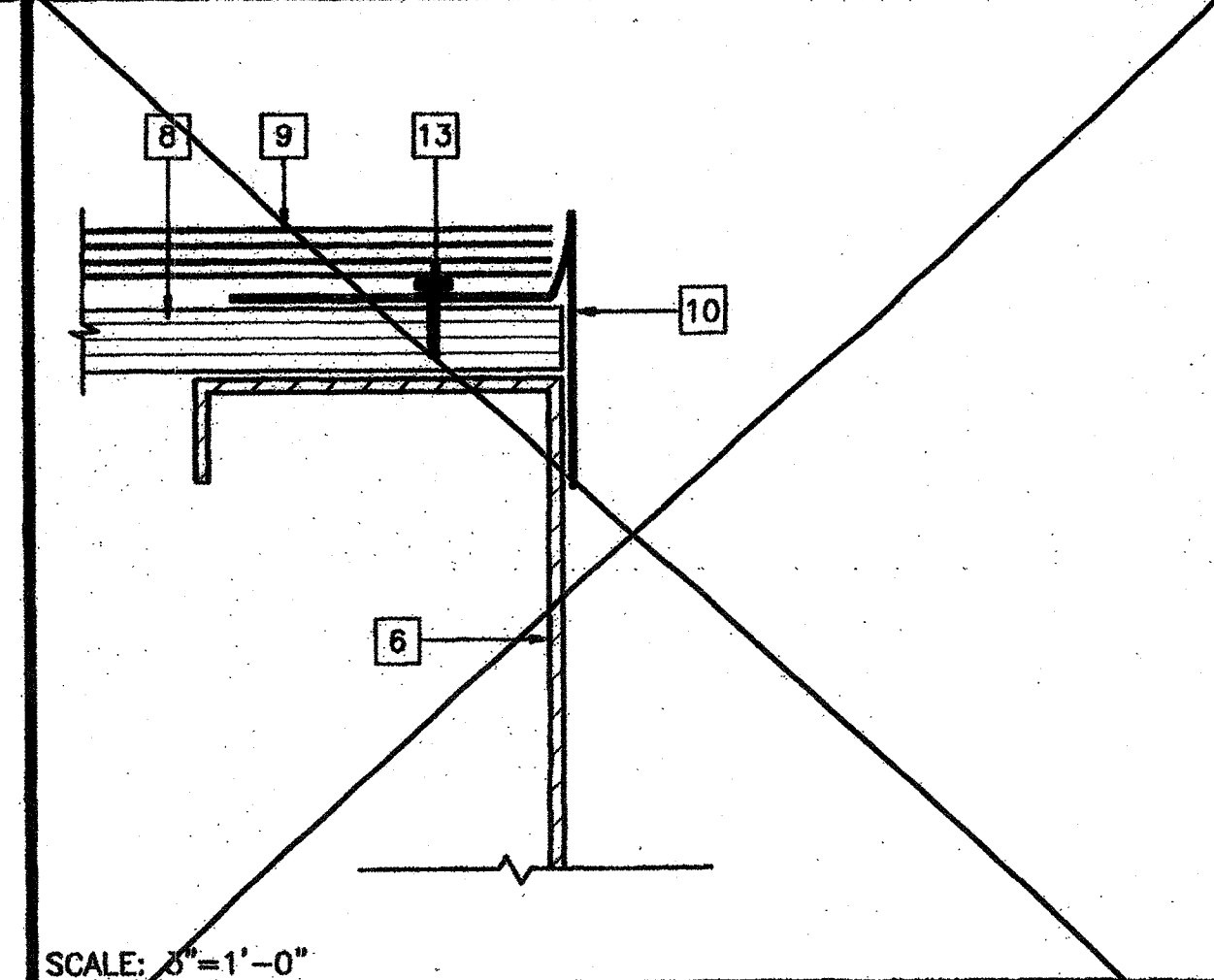
drawn scale AS NOTED  
checked job no.  
SW approved date 1/5/2018  
sheet

DESIGN CRITERIA 8

S2.0



**ROOF PLAN** BUILT UP ROOF DUAL PITCH SCALE: 3/16" = 1'-0"



**MANVILLE**

FOUR PLY MINERAL SURFACE FIBER GLASS BUILT UP ROOF

SPECIFICATION NUMBER: 4 G N C  
FOR USE OVER PLYWOOD OR OTHER NAILABLE DECKS ON INCLINES OF 1/4" TO 6" PER FOOT. FOR REGIONS 2 AND 3.

**.01 GENERAL**  
THIS SPECIFICATION IS FOR USE OVER ANY TYPE OF STRUCTURAL DECK (WITHOUT INSULATION) WHICH CAN RECEIVE AND ADEQUATELY RETAIN NAILS OR OTHER TYPES OF MECHANICAL FASTENERS AS MAY BE RECOMMENDED BY THE DECK MANUFACTURER. EXAMPLES OF SUCH DECKS ARE WOOD AND PLYWOOD. THIS SPECIFICATION IS NOT FOR USE OVER LIGHT WEIGHT INSULATING CONCRETE DECKS EITHER POURED OR PRECAST OR OVER FILL MADE OF LIGHT WEIGHT INSULATING CONCRETE.

NOTE: ALL GENERAL INSTRUCTIONS CONTAINED IN THE CURRENT MANVILLE ROOFING SYSTEMS MANUAL SHALL BE CONSIDERED PART OF THIS SPECIFICATION.

FLASHINGS: SEE SECTION ON BUR FLASHINGS, MANVILLE ROOFING MANUAL.

**.02 MATERIALS PER 100 SF OF ROOF AREA**

SHEATHING PAPER	WOOD BOARD DECKS ONLY	1 LAYER
FELTS	GLASBASE OR VENTILATION FELT	1 LAYER
	GLASPLY PREMIER OR GLASPLY IV*	1 LAYER
	GLASKAP MINERAL SURFACED CAP SHEET	1 LAYER

BITUMEN: REFER TO PARAGRAPH 7.7 OR 11.0.3.2 APPROX.. INSTALLED WEIGHT (lbs.) 209 PRIOR TO APPLICATION, CUT THE CAP SHEET INTO HANDLEABLE LENGTHS (12'-18') AND ALLOW TO FLATTEN.

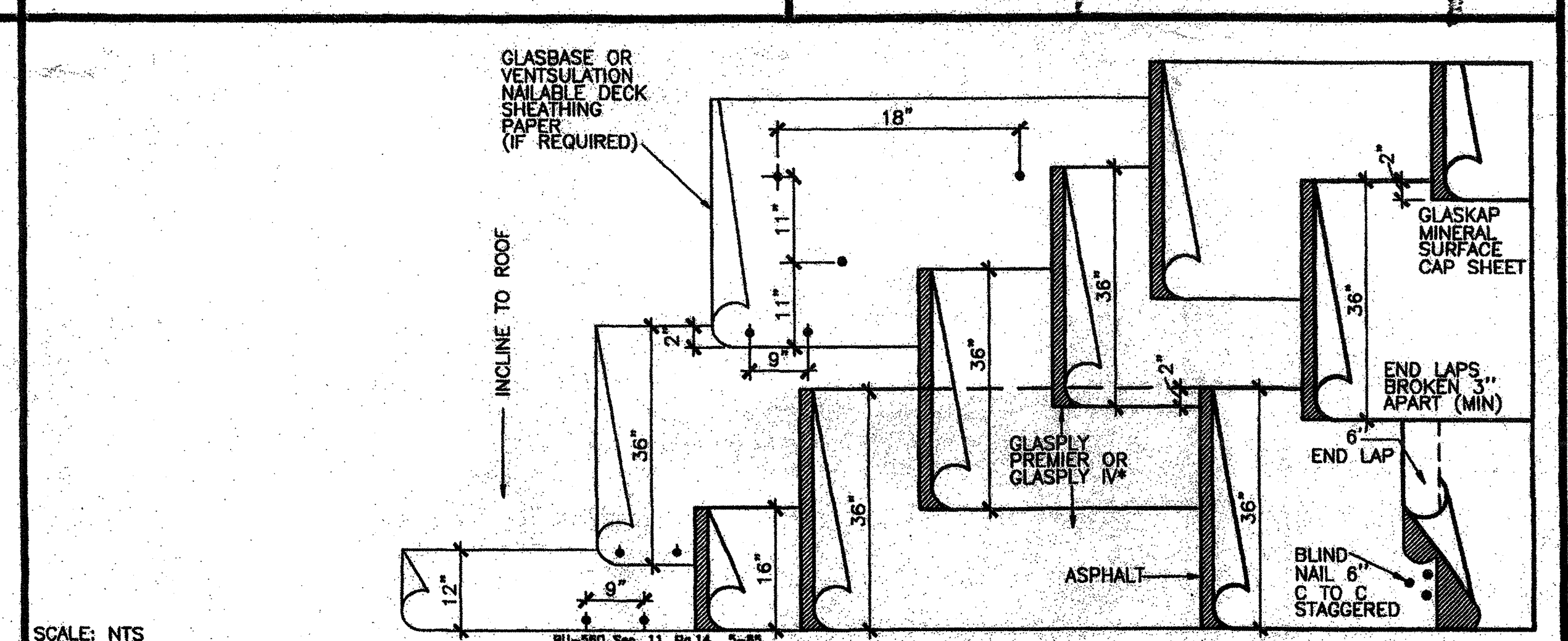
**.03 APPLICATION OF ROOFING**  
OVER WOOD BOARD DECKS ONE PLY OF SHEATHING PAPER MUST BE USED UNDER THE BASE FELT NEXT TO THE DECK USING GLASBASE, START WITH A 12" WIDTH. FOLLOWING FELTS TO BE APPLIED FULL WIDTH, LAPPING EACH FELT 2' OVER THE PRECEDING ONE. NAIL THE LAPS AT 9" CENTER AND DOWN THE LONGITUDINAL CENTER OF EACH FELT NAIL TWO ROWS OF NAILS SPACED APPROXIMATELY 11" APART AND NAILS STAGGERED ON APPROXIMATELY 18" CENTERS. USE NAILS OR FASTENERS APPROPRIATE TO THE TYPE OF DECK. SEE FASTENER DATA IN GENERAL INSTRUCTIONS STARTING AT THE LOW EDGE APPLY ON 18" WIDE, THEN OVER THAT ONE A FULL 36" WIDE GLASPLY PREMIER OR GLASPLY IV\*. FOLLOWING FELTS ARE TO BE APPLIED FULL WIDTH OVERLAPPING THE PRECEDING FELT 19" IN SUCH A MANNER THAT AT LEAST 2 PLYS OF FELT COVER THE BASE FELT AT ALL LOCATIONS. INSTALL EACH FELT SO THAT IT SHALL BE FIRMLY AND UNIFORMLY SET, WITHOUT VOIDS, INTO THE HOT (AT EVT) ASPHALT APPLIED JUST BEFORE THE FELT AT A NOMINAL UNIFORM RATE OF 23 LBS PER SQ OVER THE ENTIRE SURFACE, STARTING AT THE LOW EDGE APPLY ONE LAYER OF THE CAP SHEET, BEING SURE TO MAINTAIN 2" SIDE LAPS AND 6" END LAPS OVER THE PRECEDING SHEETS. BACK-MOP THE CAP SHEET AND FLOP IT INTO A FULL WIDTH MOPPING OF ASPHALT (30-40 LBS PER SQ TOTAL). THE TEMPERATURE OF THE ASPHALT WHEN APPLIED MUST BE SUCH THAT, WHEN THE CAP SHEET IS SET INTO IT, ITS TEMPERATURE IS APPROXIMATELY 20°F ABOVE THE EVT. THIS WILL ASSURE PROPER FLUXING OF THE CAP SHEET COATING AND RESULT IN MAXIMUM BONDING. THE CAP SHEET MUST BE FIRMLY AND UNIFORMLY SET INTO THE HOT ASPHALT WITH ALL EDGES WELL SEALED. FOR SLOPES GREATER THAN 1" PER FOOT NAILING IS REQUIRED, REFER TO PARAGRAPH 11.06. GLASPLY PREMIER REQUIRED FOR NO DOLLAR LIMIT (NOL) GUARANTEES.

- KEY NOTES**
- 11 DOWNSPOUT (SEE AT-21 FOR SPECIFIC LOCATIONS.)
  - 2 CONTINUOUS GUTTER 28GA.
  - 3 4 GNC BUILT-UP ROOFING (OPTIONAL) OVER 3/4" CDX PLYWOOD, CLASS A ROOFING SYSTEM
  - 4 AS AN ALTERNATE TO 3/4" CDX PLYWOOD USE 3/4" LOUISIANA PACIFIC OSB, SEE SPECIFICATIONS.
  - 5 MODLINE (M)
  - 6 ROOF BEAM
  - 7 ROOF FASCIA
  - 8 ROOF SHEATHING
  - 9 BUILT UP ROOF FELTS
  - 10 26 GA FLASHING
  - 11 #10 STISMS WITH NEOPRENE WASHER AT 24" OC.
  - 12 GUTTER STRAP 3/A6.22
  - 13 #10x1 1/4" SELF TAPPING FLAT HEAD SCREWS AT 18" OC OR ALTERNATE USE AEROSMITH AKN 144.0175 DRIVE PINS AT 18" OC
  - 14 RIDGELINE
  - 15 3" ROOF DRAIN W/ RECEPTOR PAN.
  - 16 3" OVERFLOW
  - 17 PARAPET
  - 18 ROOF MOUNTED HVAC UNIT (HV)

**NOTES**

1. BUILDINGS HOUSING GROUP E OCCUPANCIES SHALL HAVE ROOF COVERINGS AS SPECIFIED IN TABLE 15A C.B.C. CLASS A OR B.

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Date 10-2-2018



**REVISIONS**

1	SP	MODTECH ENGINEERING CHANGE	09/28/00
2	CM	ROOF PLAN REVISED FROM P.C. PER JOB #4094	3/15/02
3			
4			
5			

Electrical Engineer's Seal  
Mechanical Engineer's Seal  
Structural Engineer's Seal  
Architect's Seal

**CBC 2016**

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PC-04  
101268  
AC FLS/SS TB  
DATE 10-2-2018

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

PROJECT NUMBER: 4094 © MODTECH, INC. 2001

OAK PARK UNIFIED SCHOOL DISTRICT

BROOKSIDE ELEMENTARY SCHOOL (1) 72' x 40' ADMINISTRATION BUILDING

**ROOF PLAN** BUILT UP ROOF

DRAWN BY: CM  
DATE: 3/15/02  
CHECKED BY: SW  
DATE: 1/5/2018  
MODTECH Index No. **A2.21**

### KEY NOTES

- 1 TYPICAL EXTERIOR FINISH SEE EXTERIOR FINISH SCHEDULE BELOW.
- 2 EXTERIOR LIGHT FIXTURE (EL)
- 3 TOP OF SKIRTING
- 4 RAMP AND LANDINGS - R1-01
- 5 HVAC UNIT (HV)
- 6 DOWNSPOUT FASTEN TO BUILDING TYPICAL (3) PLACES
- 7 CONTINUOUS GUTTER WITH DOWNSPOUT (LOCATION OF DOWNSPOUT SHOWN ON ROOF PLAN)
- 8 FOUNDATION VENT (SEE FOUNDATION PLAN)
- 9 FINISH FLOOR LINE
- 10 FLOOR BEAM (STR)
- 11 ROOF HEADER (STR)
- 12 TOP OF COLUMN
- 13 FINISH GRADE
- 14 ROOF BEAM (STR)
- 15 COLUMN (STR)
- 16 ELECTRICAL STUB-OUT (EL)
- 17 GROUND STUB-OUT (EL)
- 18 J-BOX FOR EXTERIOR FIRE ALARM HORN (EL)
- 19 GUTTER BOX (EL)
- 20 SIGNAGE PROVIDED AND INSTALLED BY DISTRICT PRIOR TO OCCUPANCY. 5/A5.01
- 21 RIDGE
- 22 PLASTER EXPANSION JOINT
- 23 PARAPET
- 24 ROOF LINE BEYOND
- 25 SOFFIT DOWNLIGHT

### NOTES

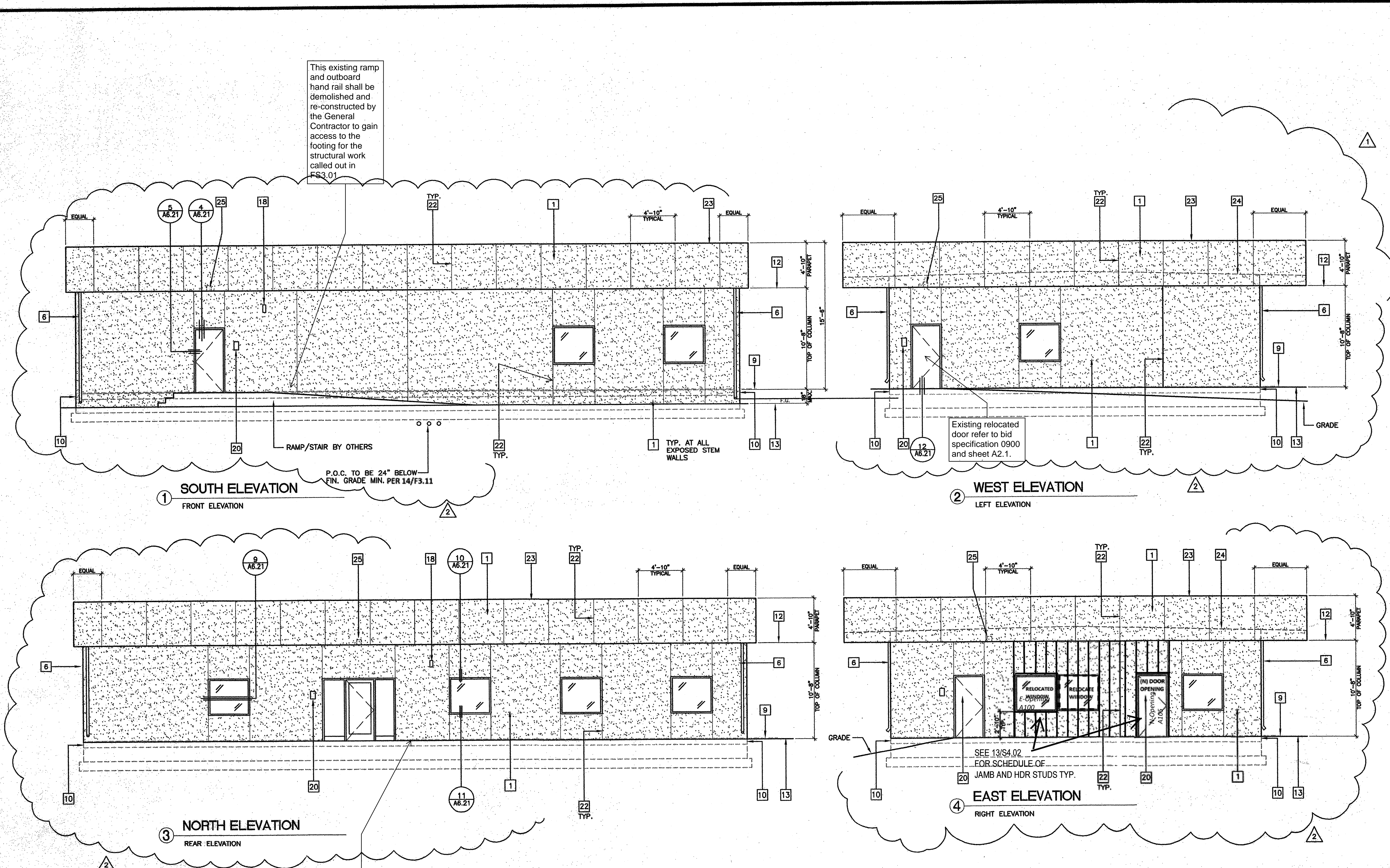
1. IF HVAC UNIT IS LOCATED IN ANY PATH OF TRAVEL OR CIRCULATION AREA AND HEIGHT FROM GRADE TO BOTTOM OF UNIT EXCEEDS 2'-0" PROTECTION MUST BE PROVIDED.

### EXTERIOR FINISH SCHEDULE

NOTE: SEE SPECIFICATIONS FOR DETAILED DESCRIPTION OF FINISH OPTIONS.

STANDARD	5/8" PLYWOOD SIDING
OPTIONAL	5/16" GROOVED FIBER CEMENT BOARD
OPTIONAL	5/16" FIBER CEMENT BOARD WITH TEXTURED ELASTOMERIC COATING SYSTEM
OPTIONAL	EXTERIOR PLASTER OVER LATH

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 Date 102-2018



**EXTERIOR ELEVATIONS** SCALE: 3/16" = 1'-0"

### REVISIONS

NO.	DESCRIPTION	DATE
1	CM EXTERIOR ELEVATIONS REVISED FROM P.C. PER JOB #4094	3/15/02
2	MG EXTERIOR ELEVATIONS REVISED FROM P.C. PER JOB #4094	5/22/02
3		
4		

Electrical Engineer's Seal	Mechanical Engineer's Seal	Structural Engineer's Seal	Architect's Seal

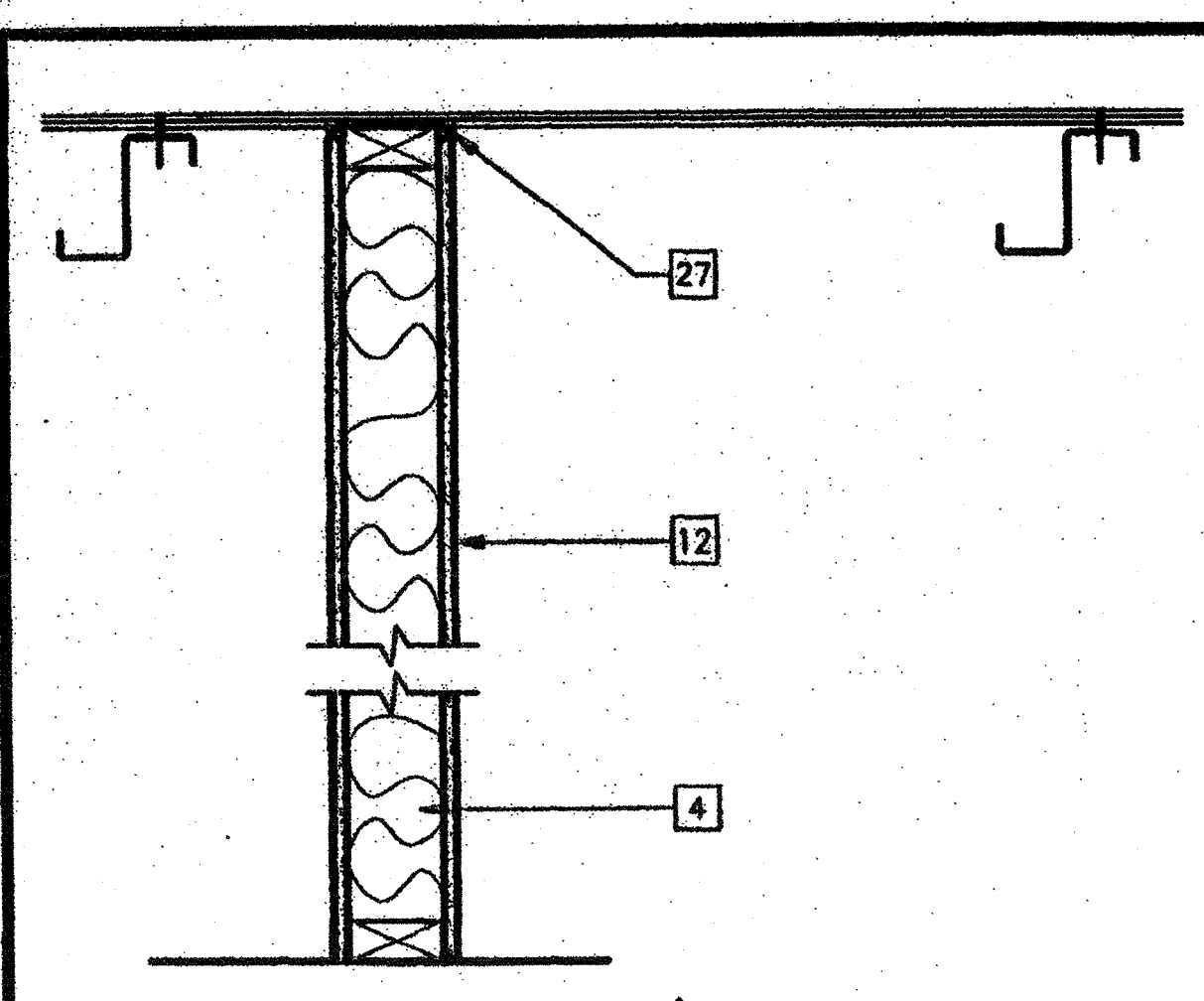
**CBC 2016**

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 101268  
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**MODTECH INC.**  
 2830 BARRETT AVENUE  
 PERRIS, CALIF. 92572  
 PH (909) 943-4014  
 FAX (909) 940-0427

PROJECT NUMBER: 4094 © MODTECH, INC. 2001  
 OAK PARK UNIFIED SCHOOL DISTRICT  
 BROOKSIDE ELEMENTARY SCHOOL (1) 72' x 40' ADMINISTRATION BUILDING

DRAWN BY: CM  
 DATE: 3/15/02  
 CHECKED BY: SW  
 DATE: 1/5/2018  
**A3.03**



GA FILE No. WP 3510

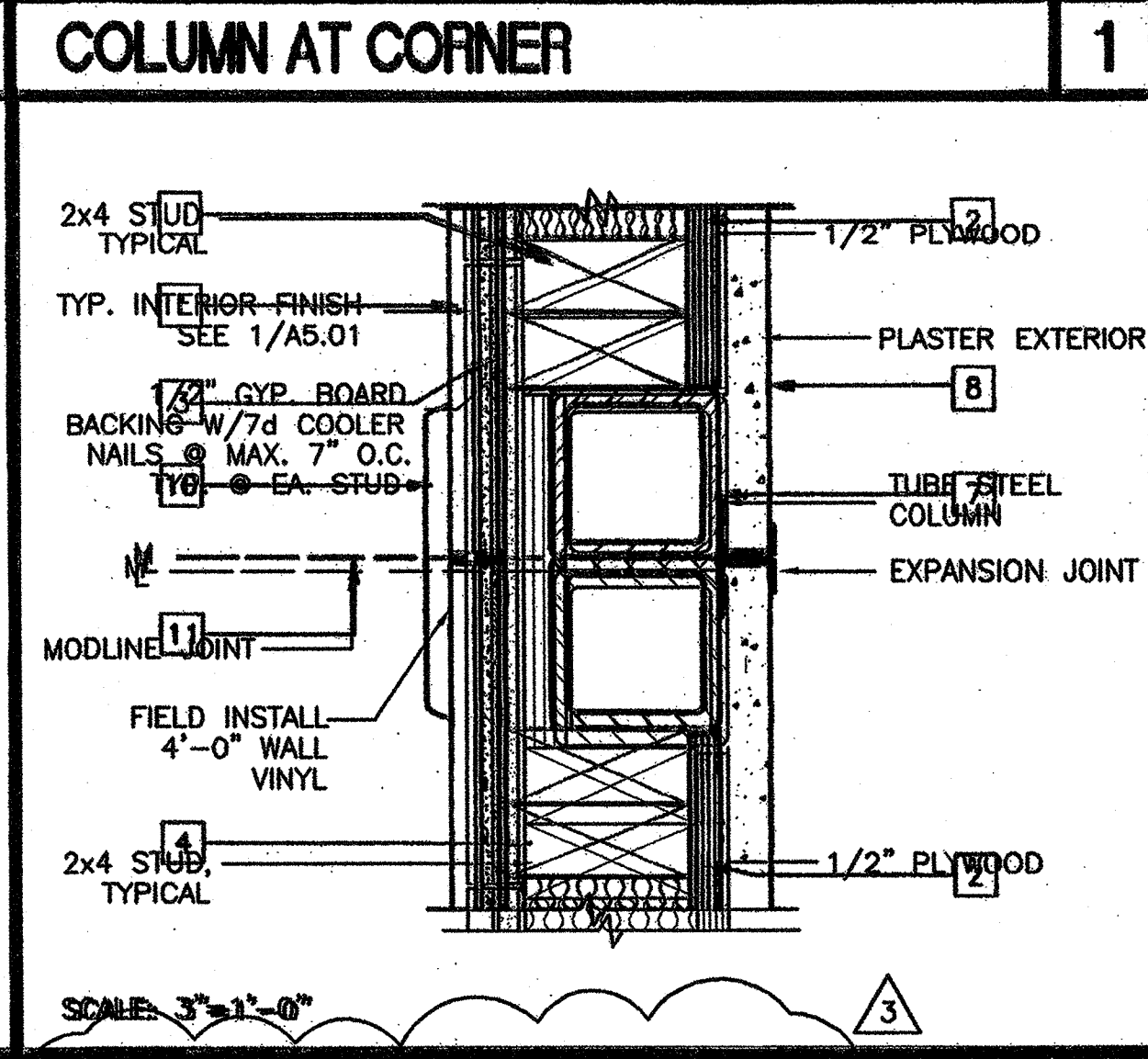
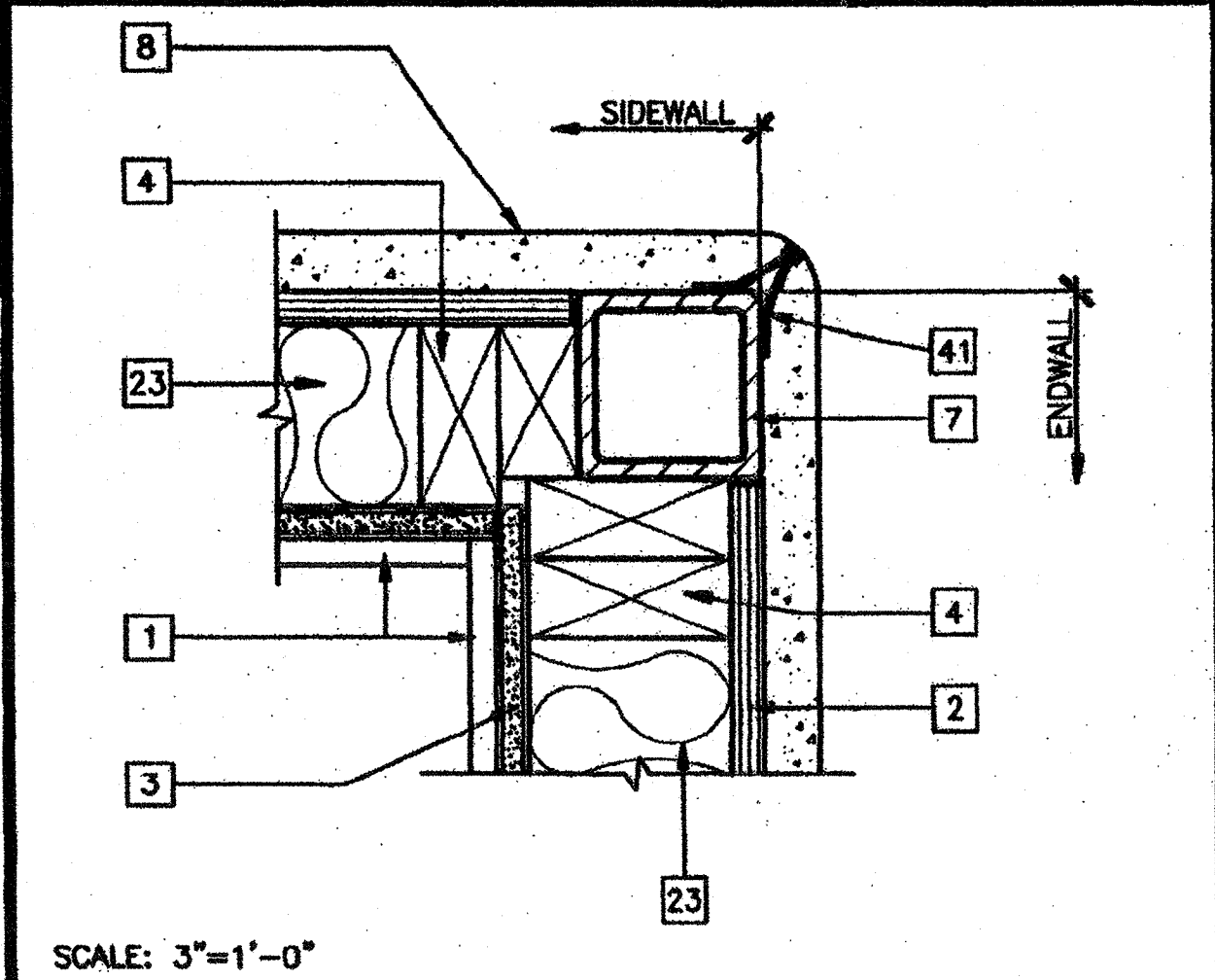
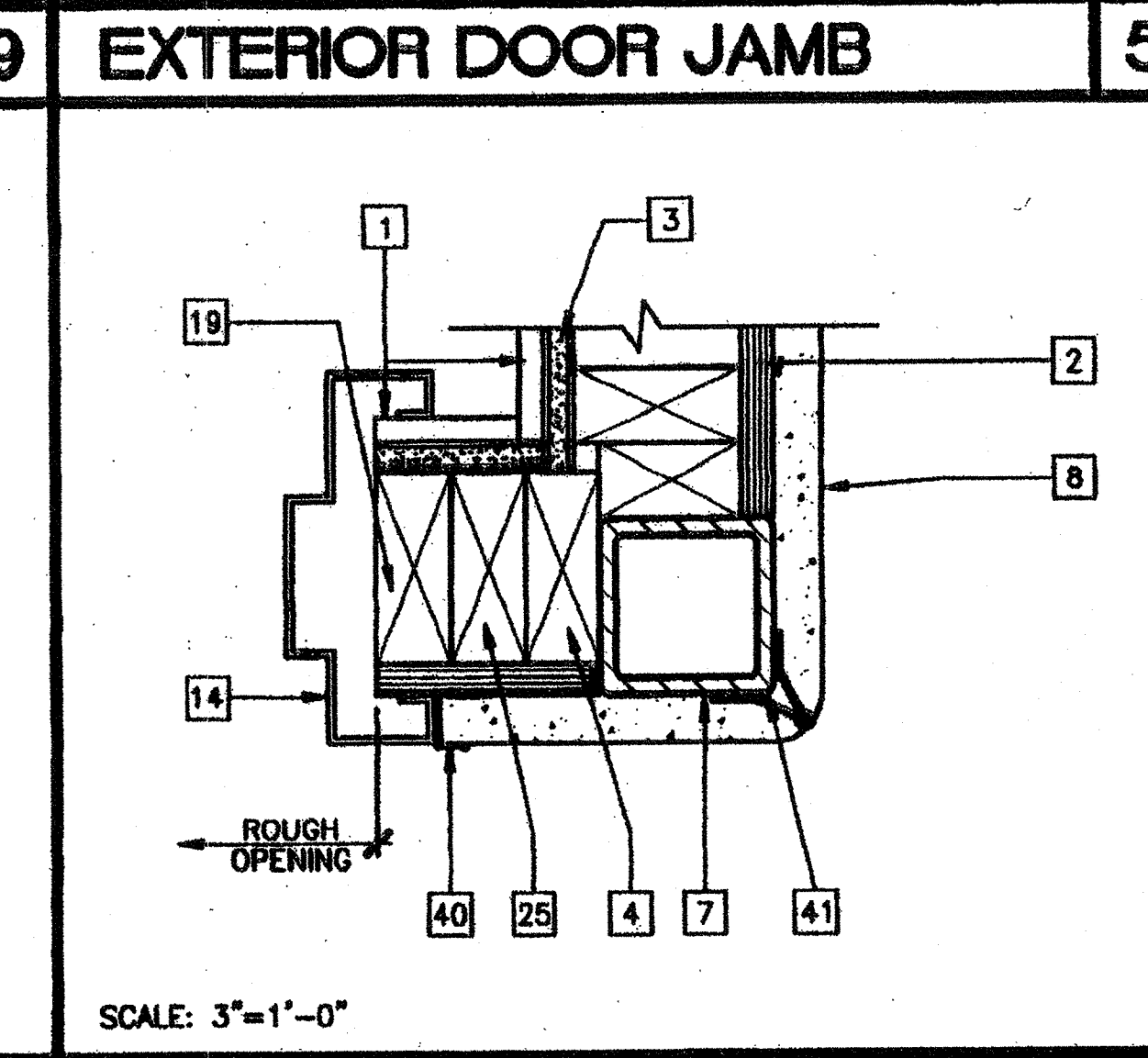
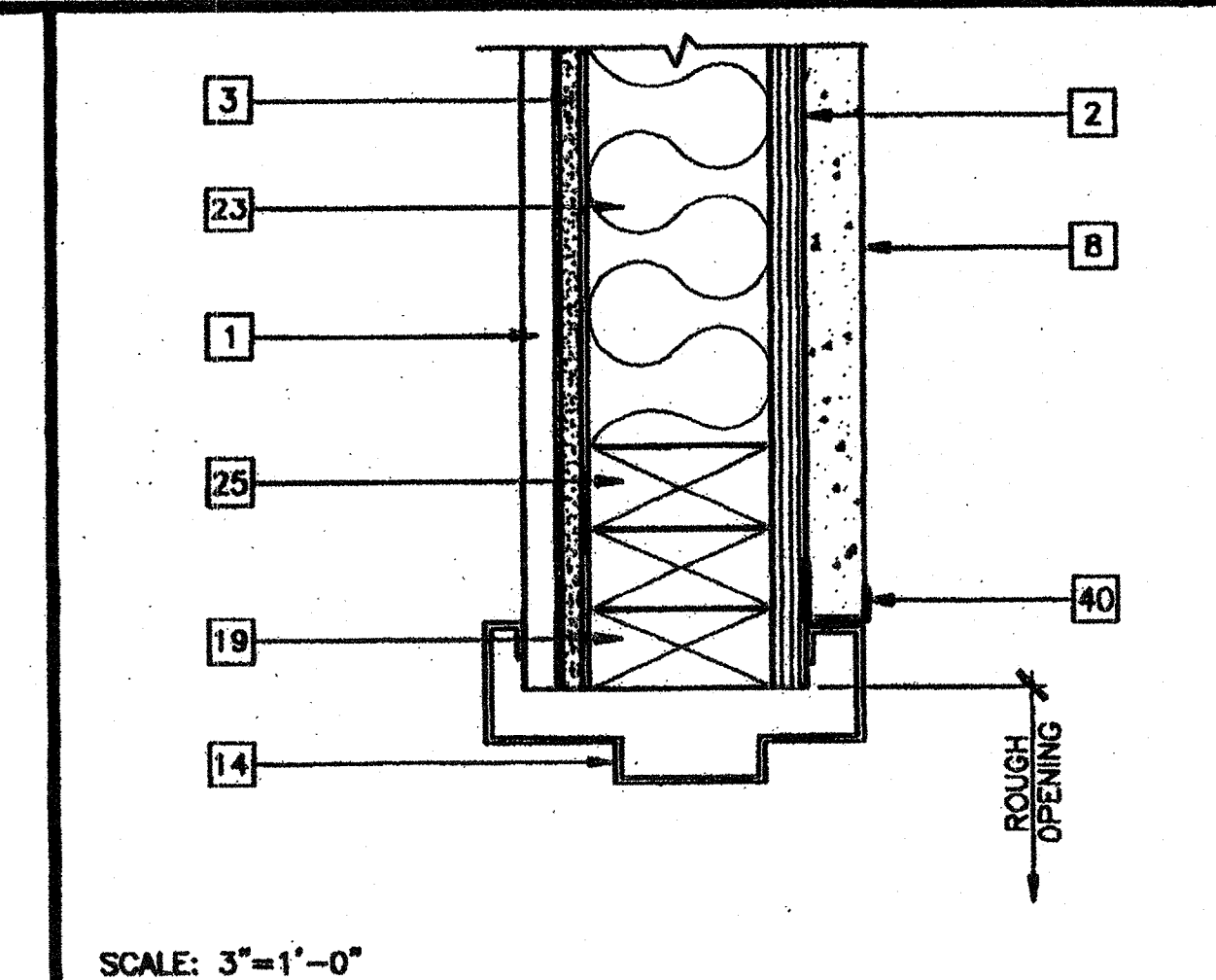
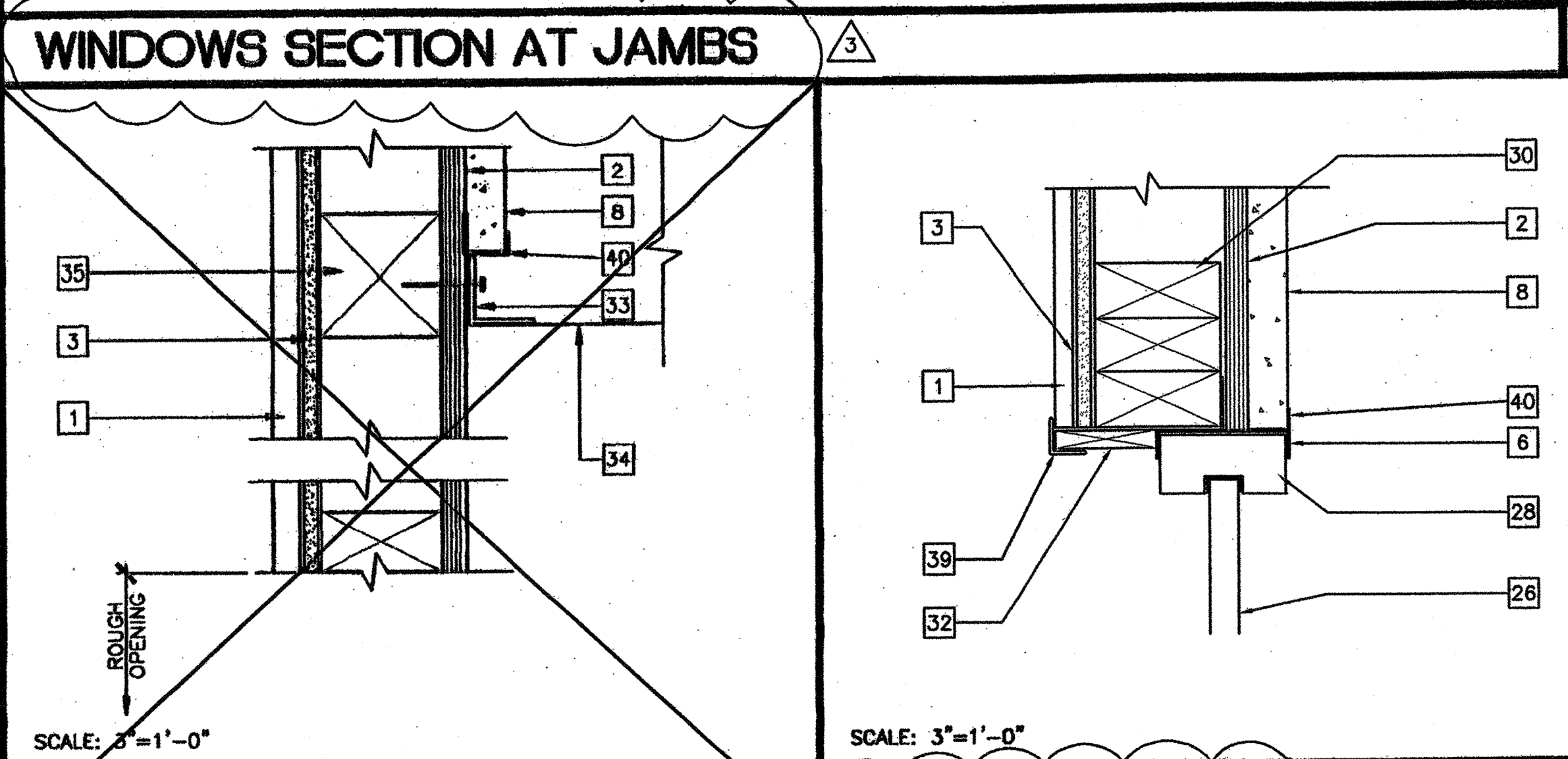
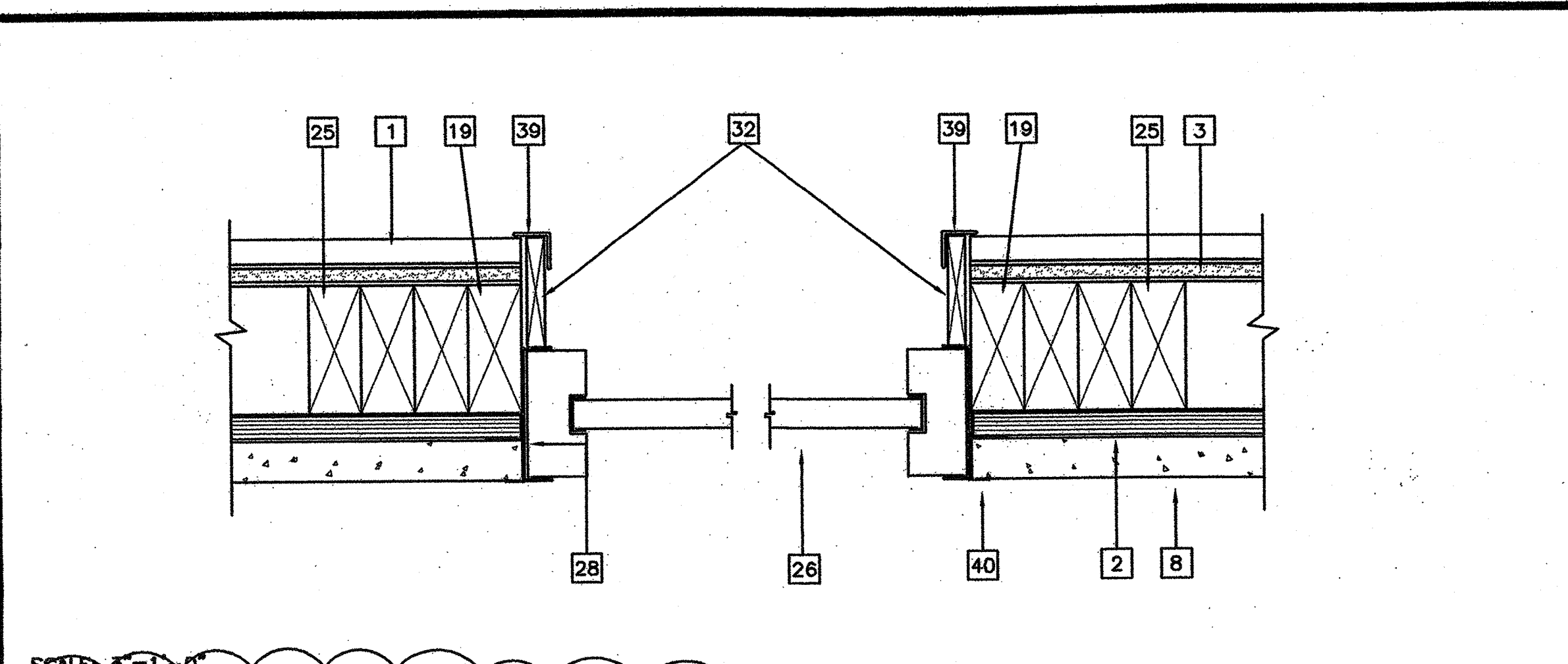
**GYPSUM WALL BOARD  
WOOD STUDS**

ONE LAYER 5/8" TYPE X GYPSUM WALL BOARD OR GYPSUM VENEER BASE APPLIED PARALLEL OR AT RIGHT ANGLES TO EACH SIDE OF 2"x4" WOOD STUDS AT 24" OC WITH 8d COATED NAILS, 1 7/8" LONG, 0.0915 SHANK, 1/4" HEADS, 7" OC. JOINTS STAGGERED 24" ON OPPOSITE ENDS (LOAD BEARING)

THICKNESS: 4 3/4"  
APPROXIMATE WEIGHT: .7 PSF  
FIRE TEST: UL R3501-47, -48, 9-17-65, DESIGN U309; UL R1319-129, 7-22-70, DESIGN U314

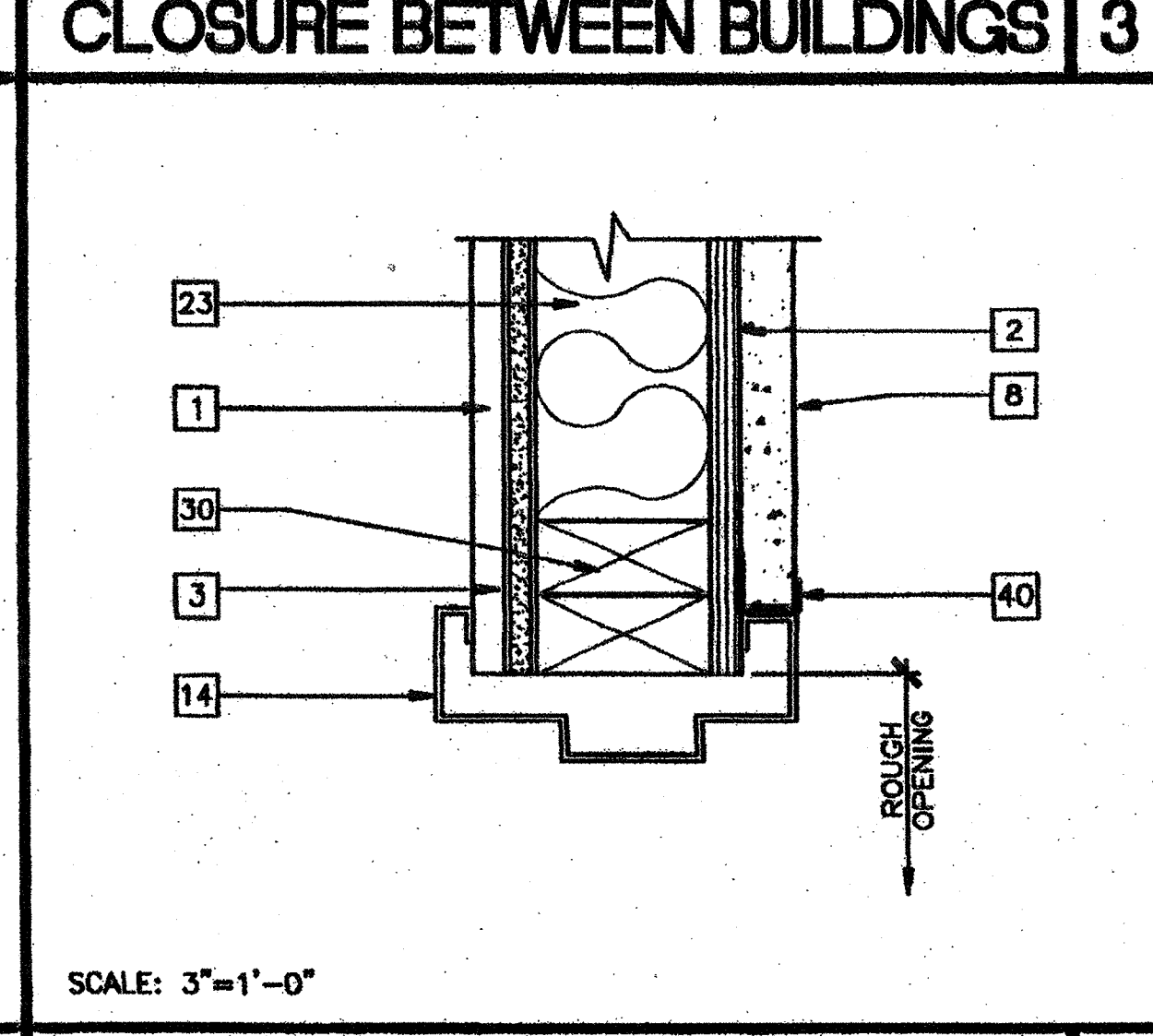
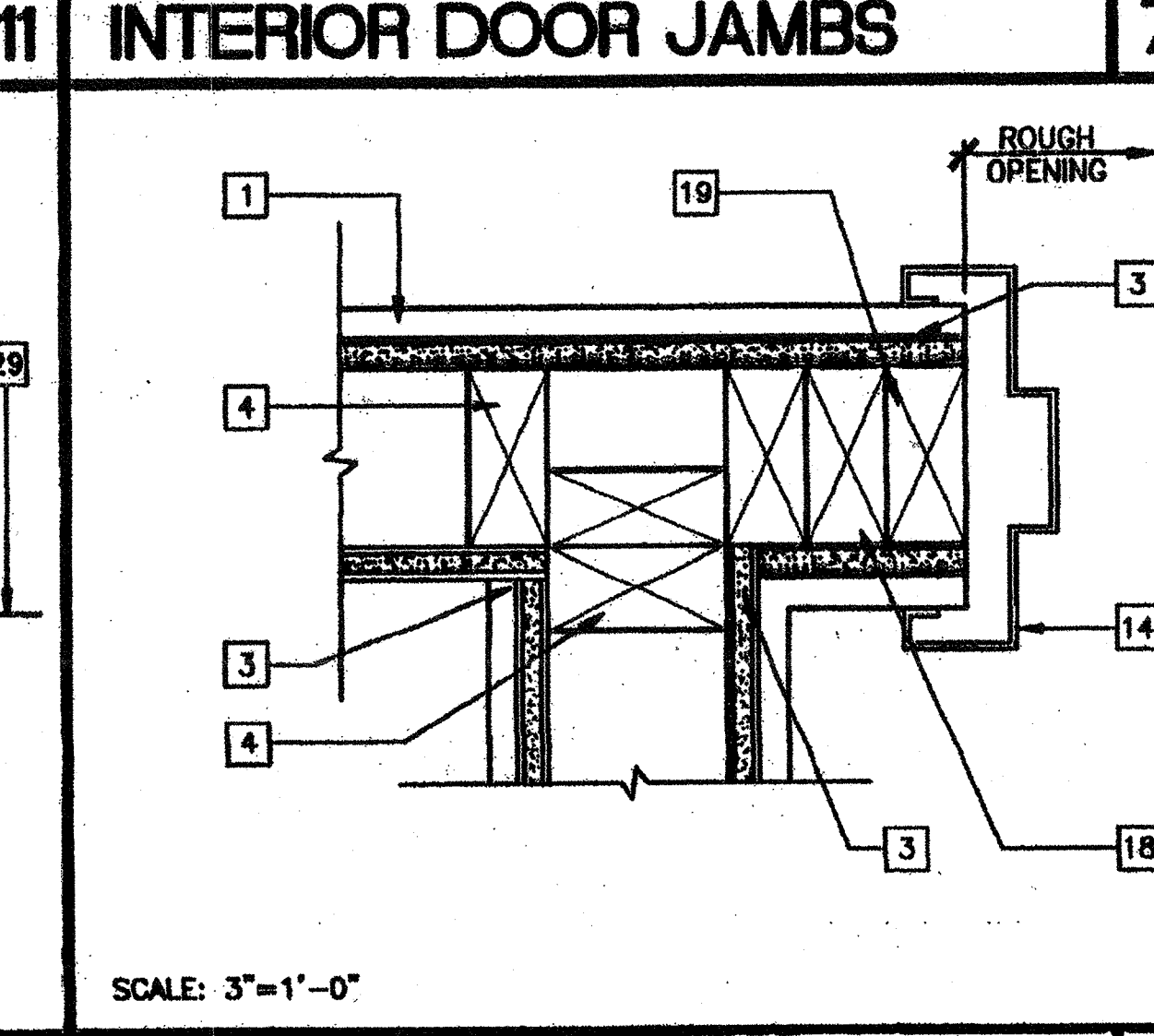
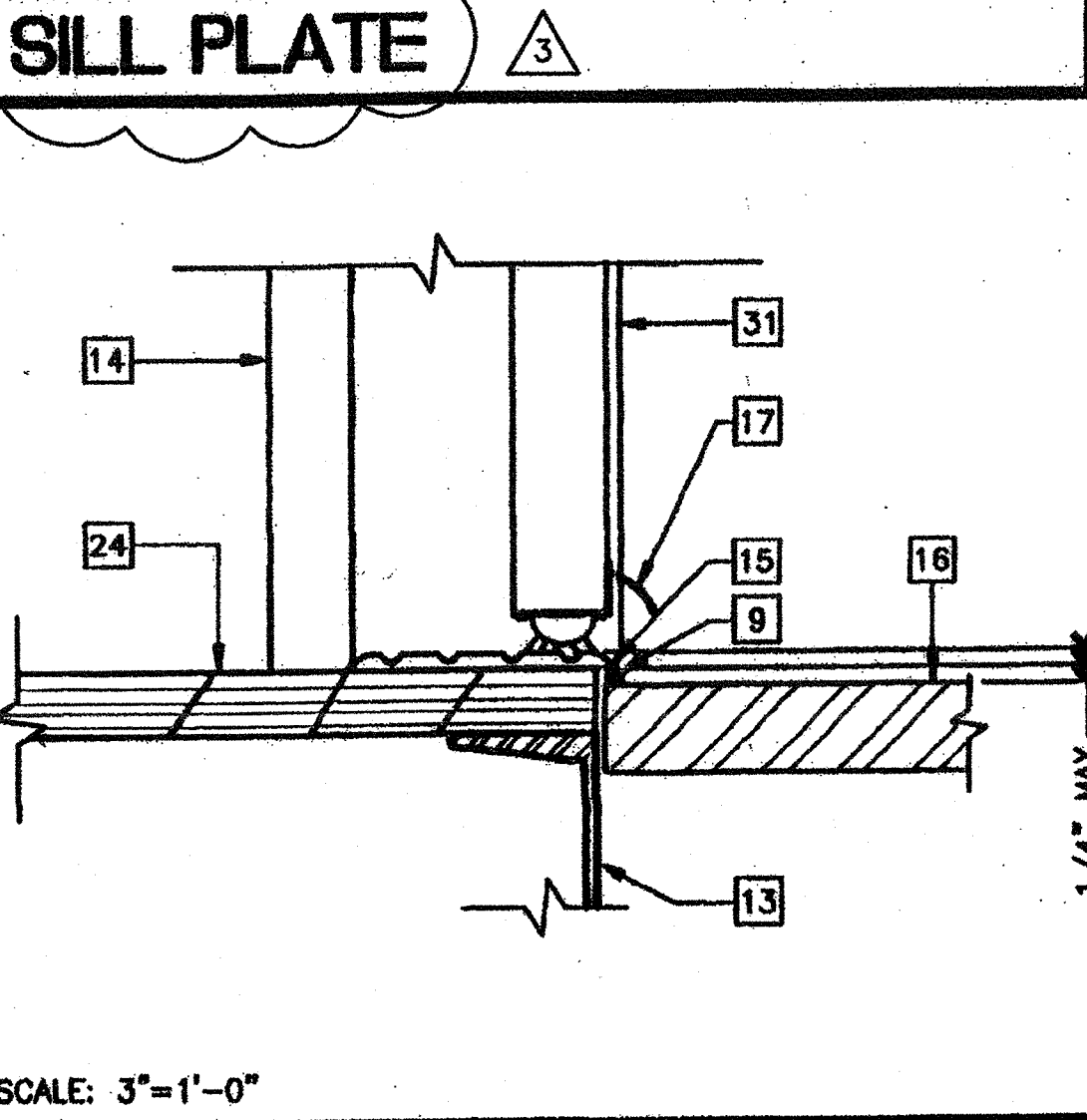
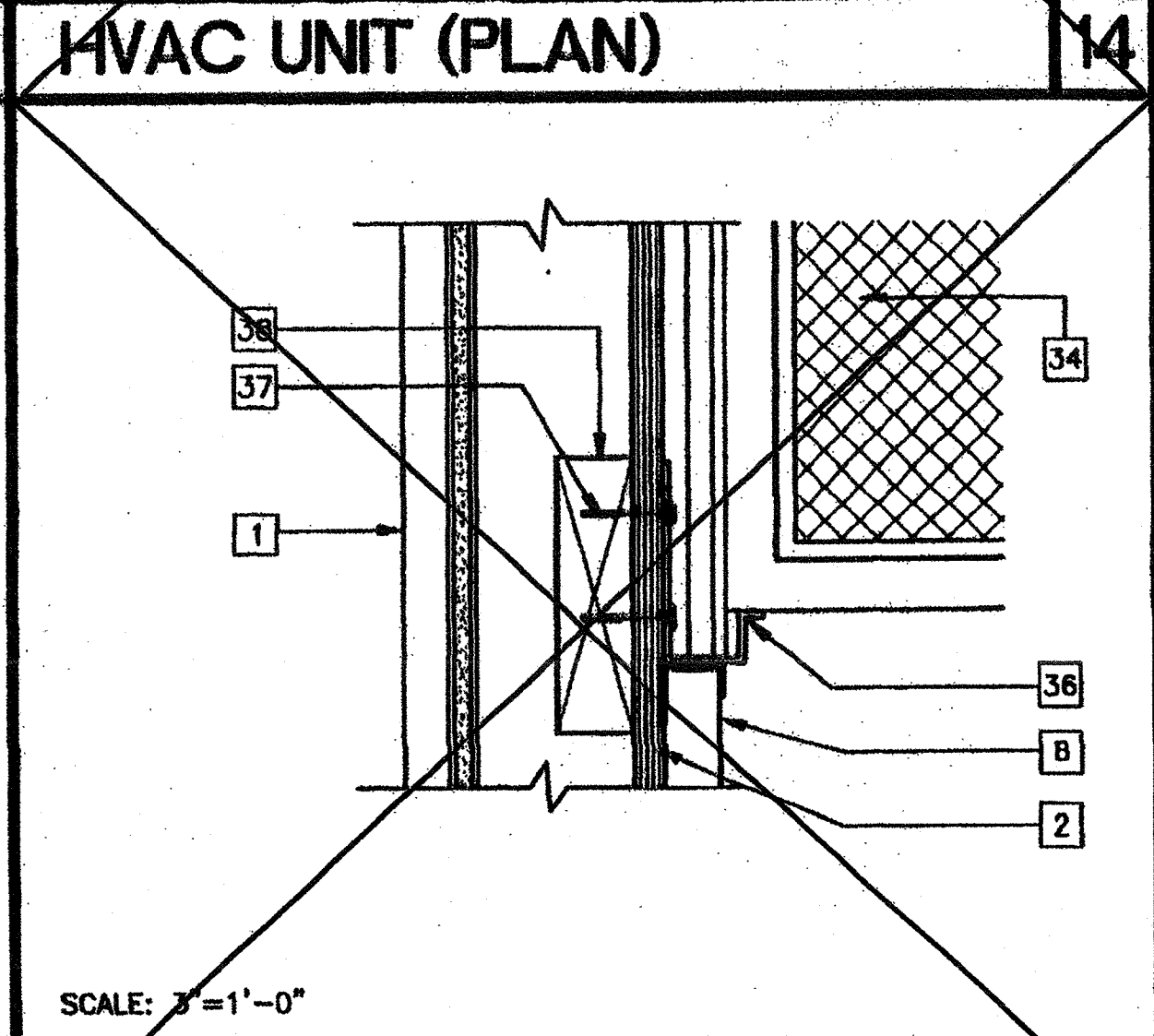
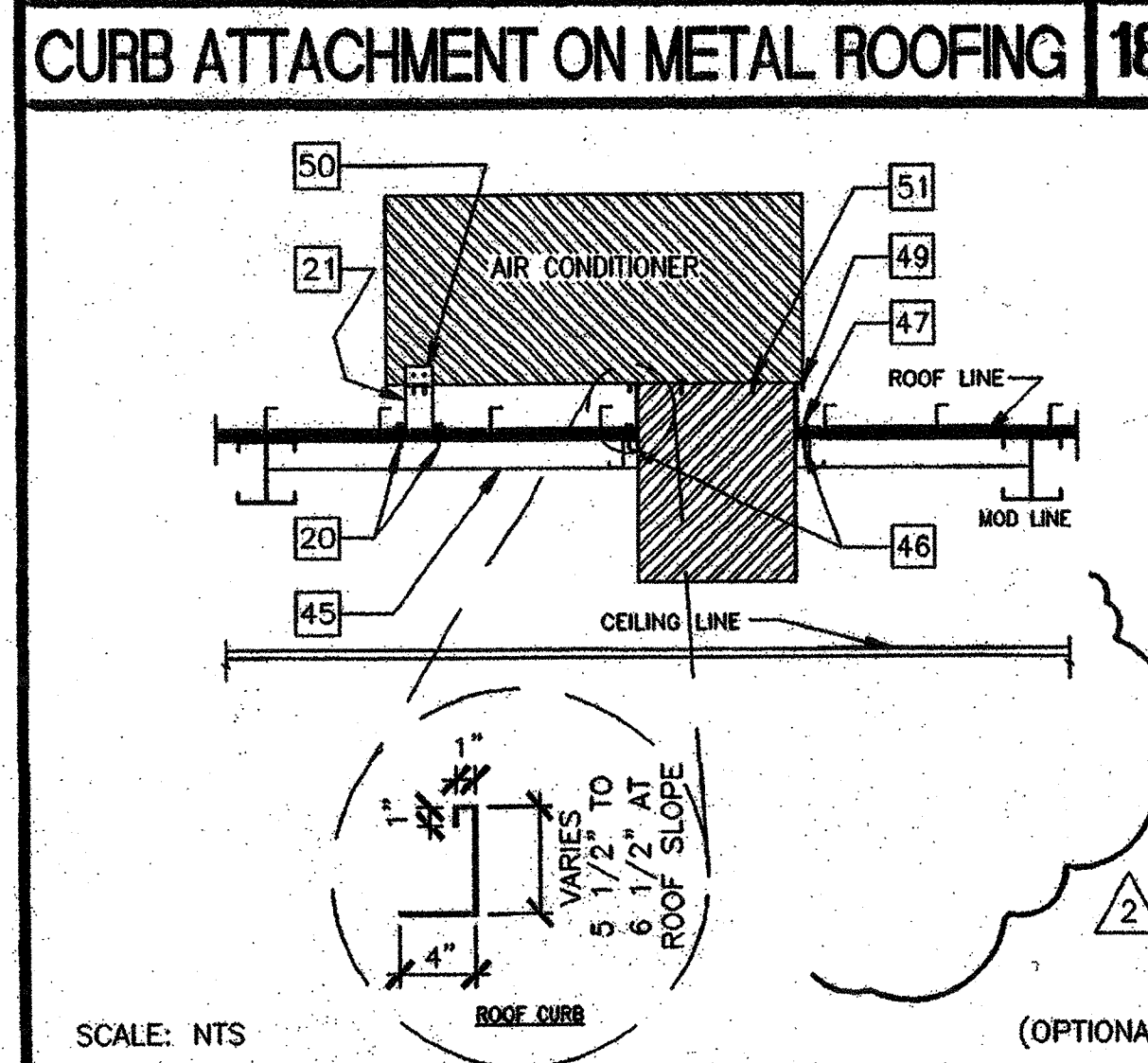
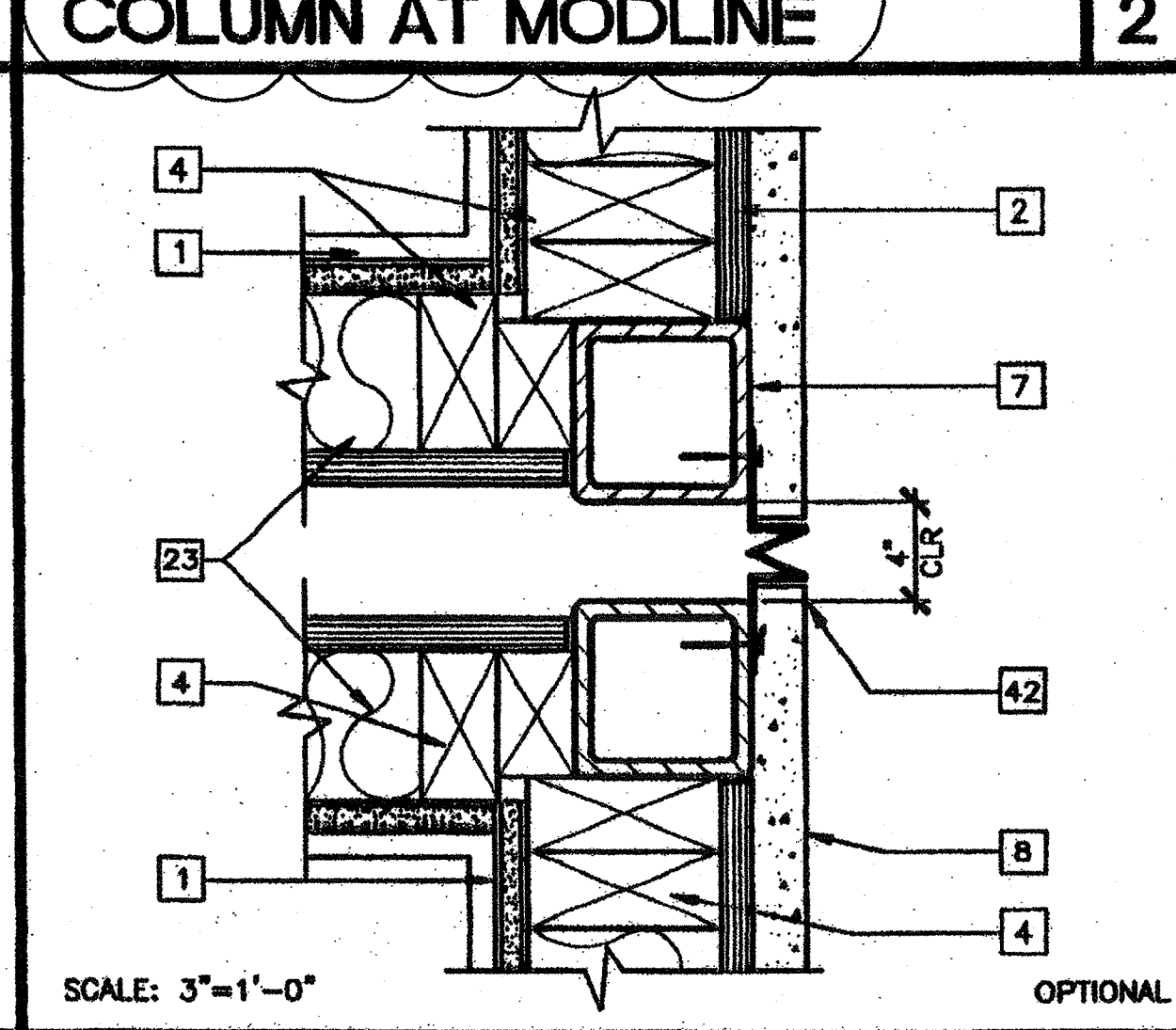
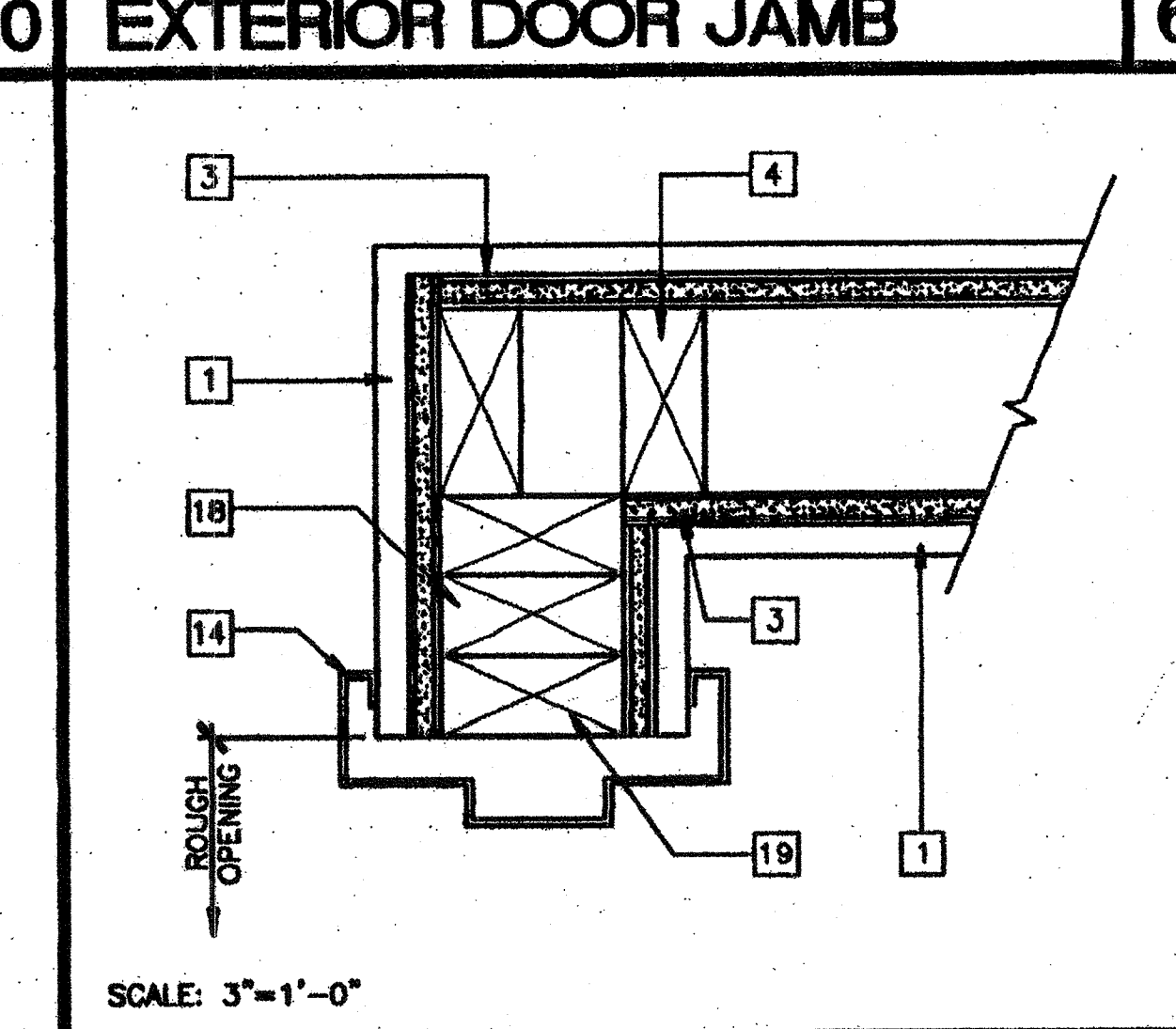
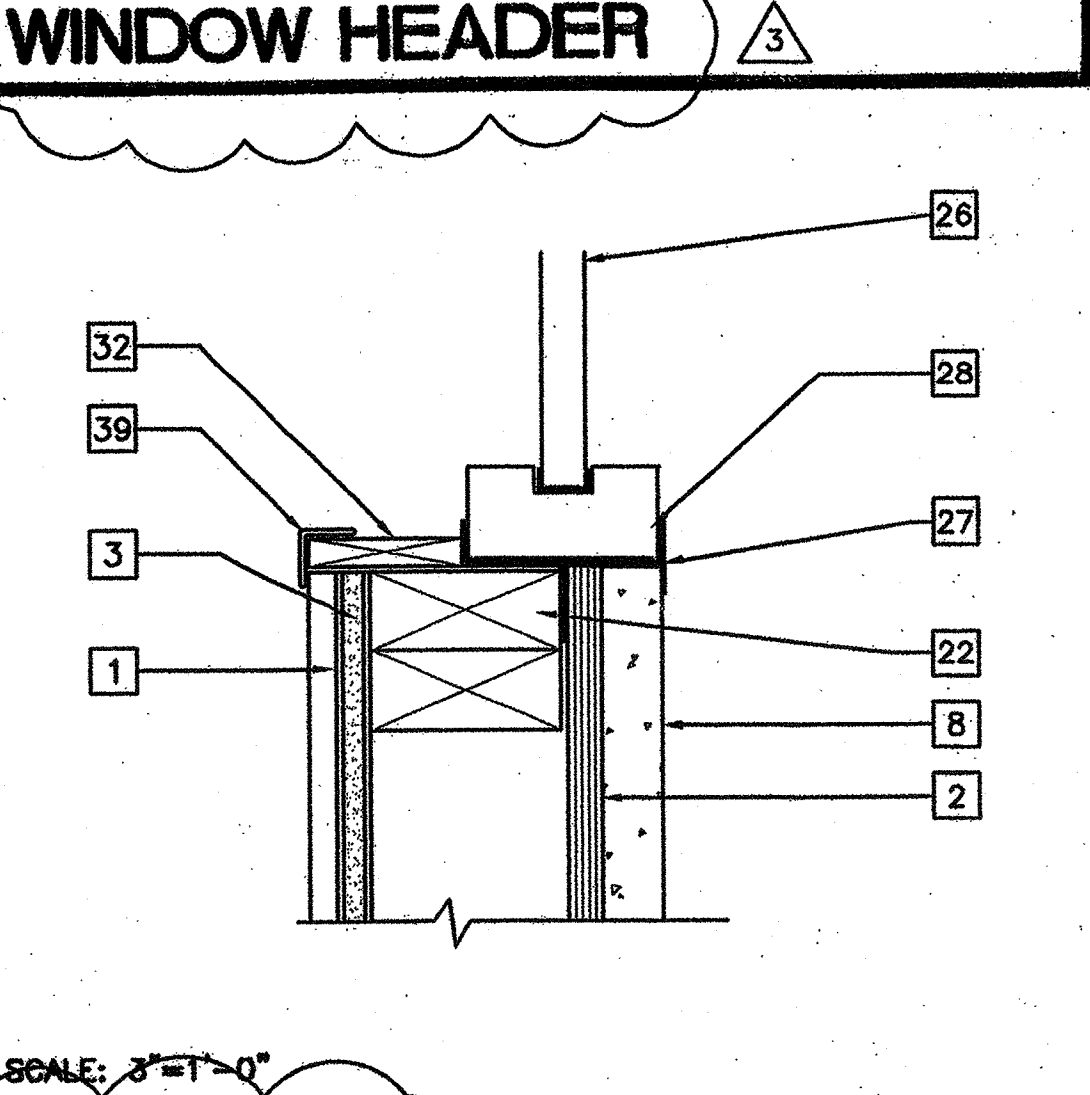
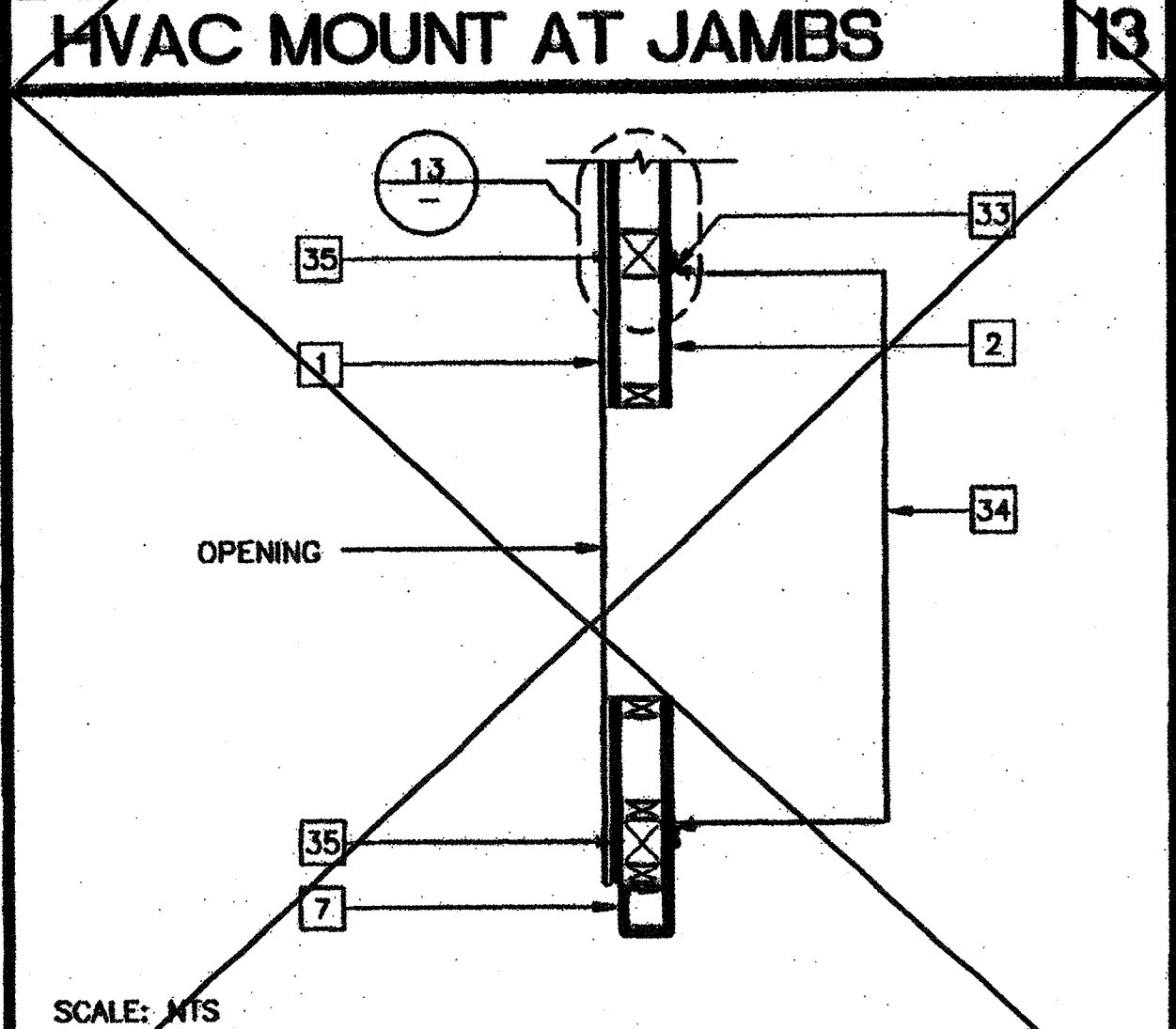
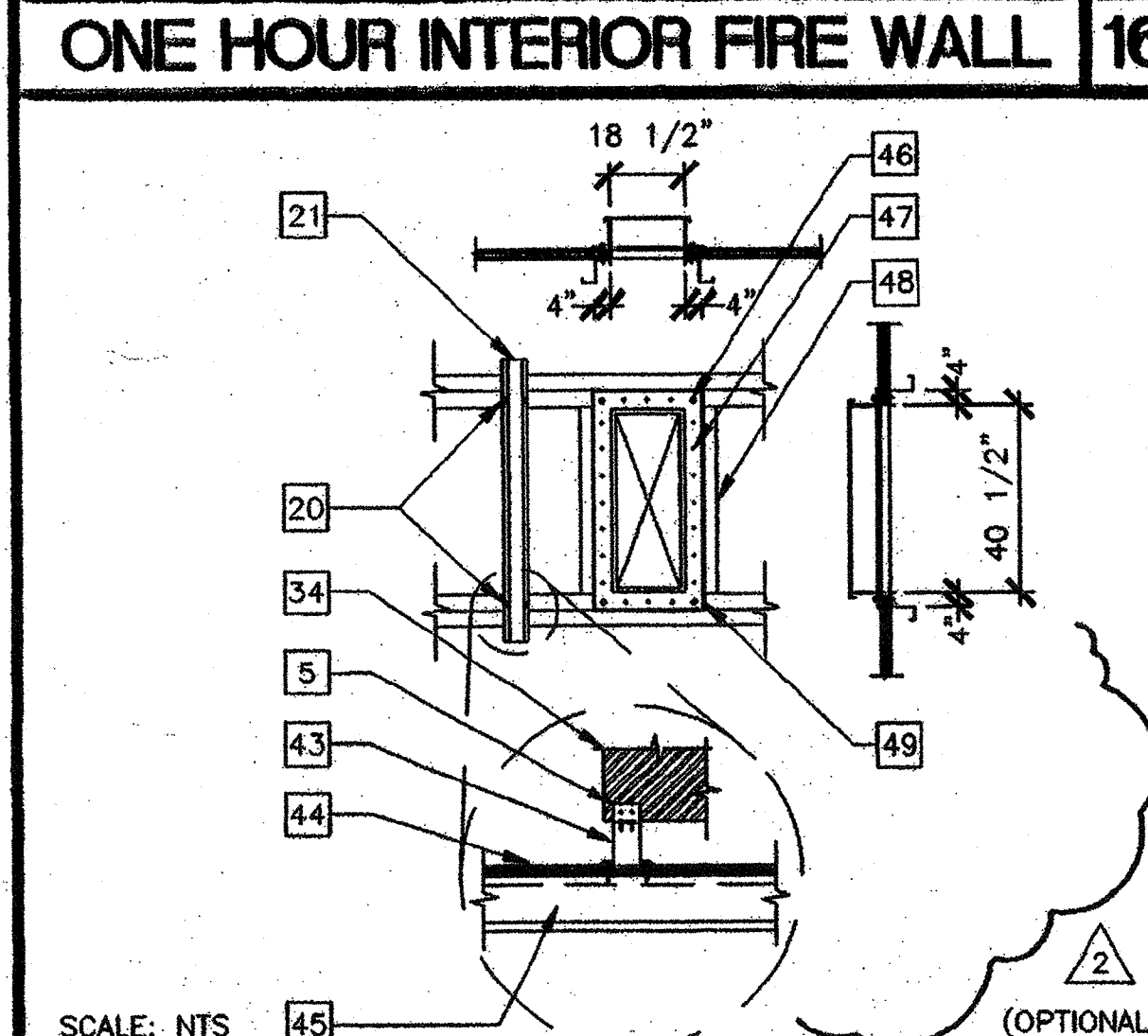
SOUND TEST: NCC 2404, 10-14-70 (OPTIONAL)

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



**KEY NOTES**

- 1 TYPICAL INTERIOR FINISH (FIN) - 1/A5.01
- 2 TYPICAL EXTERIOR FINISH - A3
- 3 1/2" GYPSUM BOARD BACKING WITH 7d COOLER NAILS AT MAX 7" OC TYPICAL AT EACH STUD
- 4 2"x4" STUD TYPICAL
- 5 18 GA x2" WIDE ANGLE WITH 2-#10 SMS EACH LEG
- 6 DRIP FLASH 26 GA
- 7 TUBE STEEL COLUMN (STR)
- 8 PLASTER EXTERIOR
- 9 CAULKING
- 10 CLOSURE
- 11 MODULE JOINT
- 12 5/8" TYPE X GYPSUM BOARD
- 13 FLOOR BEAM (STR)
- 14 PRESSED STEEL FRAME - 6/A5.01
- 15 ALUMINUM THRESHOLD - 1/4" WITH 2:1 BEVEL - 8/A5.01
- 16 FINISH LANDING
- 17 DOOR BOTTOM - 8/A5.01
- 18 (2) 2"x4" KING STUD - 13/S4.02
- 19 2"x4" TRIMMER STUD - 13/S4.02
- 20 #14 x2" SMS INTO PURLIN (TYP 4 PLACES)
- 21 18 GA GALVANIZED IRON HAT
- 22 SILL PLATE - 13/S4.02
- 23 INSULATION (SEE SPECS. FOR SIZE AND TYPE)
- 24 FINISH FLOORING - 1/A5.01
- 25 2"x4" FULL HEIGHT JAMB STUDS - 13/S4.02
- 26 WINDOW GLAZING - 3/A5.01
- 27 SEALANT TYPICAL (SEE SPECS.)
- 28 ALUMINUM WINDOW FRAME WITH NAIL ON FINISH. INSTALL WITH MIN 3" BUILDING PAPER BETWEEN FINISH AND FRAMING. INSTALL WITH 8d AT 24" OC MAX
- 29 FINISH FLOOR LINE
- 30 HEADER - 13/S4.02
- 31 DOOR - 6/A5.01
- 32 INTERIOR WOOD TRIM
- 33 HVAC SIDE BRACKET (FURNISHED WITH UNIT) ATTACH TO WALL WITH 3/8"x2" LAG SCREWS
- 34 HVAC UNIT (HV)
- 35 4"x4" POST OR ALTERNATE - (2) 2"x4" FULL HEIGHT STUDS WITH 1/2" PLYWOOD SPACER STITCH NAILED WITH 16d AT 12" OC STAGGERED
- 36 HVAC UNIT BOTTOM SUPPORT 12 GAx24" WITH (6) #12 STMS TO FLAT STRAP (11/S4.12) OR WALL STUD.
- 37 6-3/8" DIAx2" GALVANIZED LAG SCREWS
- 38 2"x6" LET IN - S4.01
- 39 CORNER MOLDING
- 40 PLASTER STOP
- 41 INTERIOR CONTROL JOINT
- 42 EXPANSION SCREED
- 43 18 GA x2" WIDE 5 1/2" DEEP 5' LONG RUNNER
- 44 3/4" PLYWOOD SHEATHING
- 45 14 GA x2" ROOF PURLIN AT 48" OC
- 46 #14 x2" SMS THRU ROOF CURBS INTO PURLIN (TYP 4 PLACES)
- 47 #8x3/4" SMS AT 5" OC MIN
- 48 ROOF PURLIN-4/S2.01; 6" x 14 GA Z PURLIN
- 49 24 GA ROOF CURB SECURE TO ROOF
- 50 18 GA x2" W/ANGLES SECURE TO A/C UNIT W/2 #10 SMS SECURE TO UNIT W/1 #14 SMS (TYP 2 PLACES)
- 51 #10 x3/4" SMS (TYP 4 PLACES)



**REVISIONS**

SP	MODTECH ENGINEERING CHANGE	10/12/00
SP	ADDED DETAILS 18, 19 AND NOTES	11/16/00
CM	DETAILS REVISED FROM P.C. PER JOB #4094	3/15/02

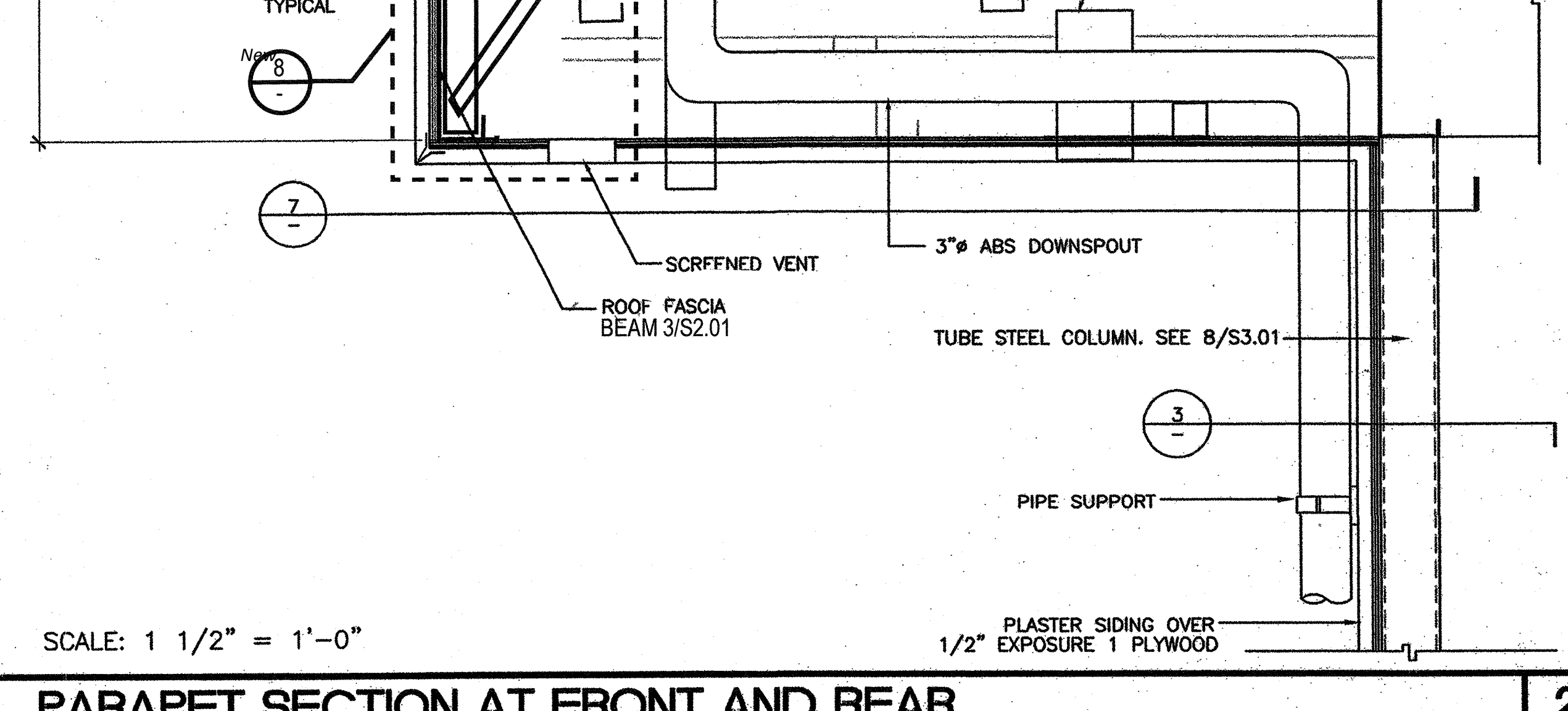
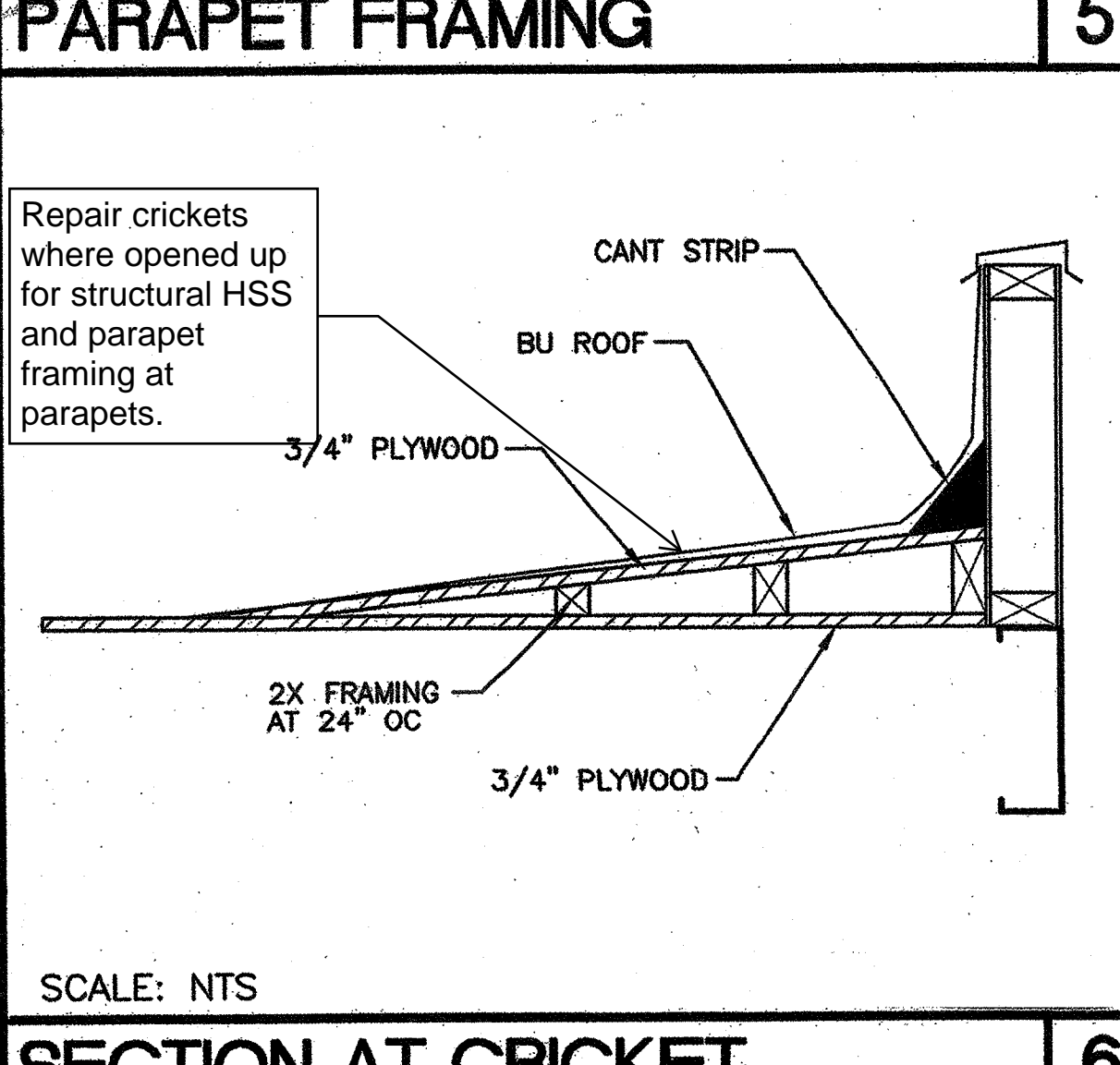
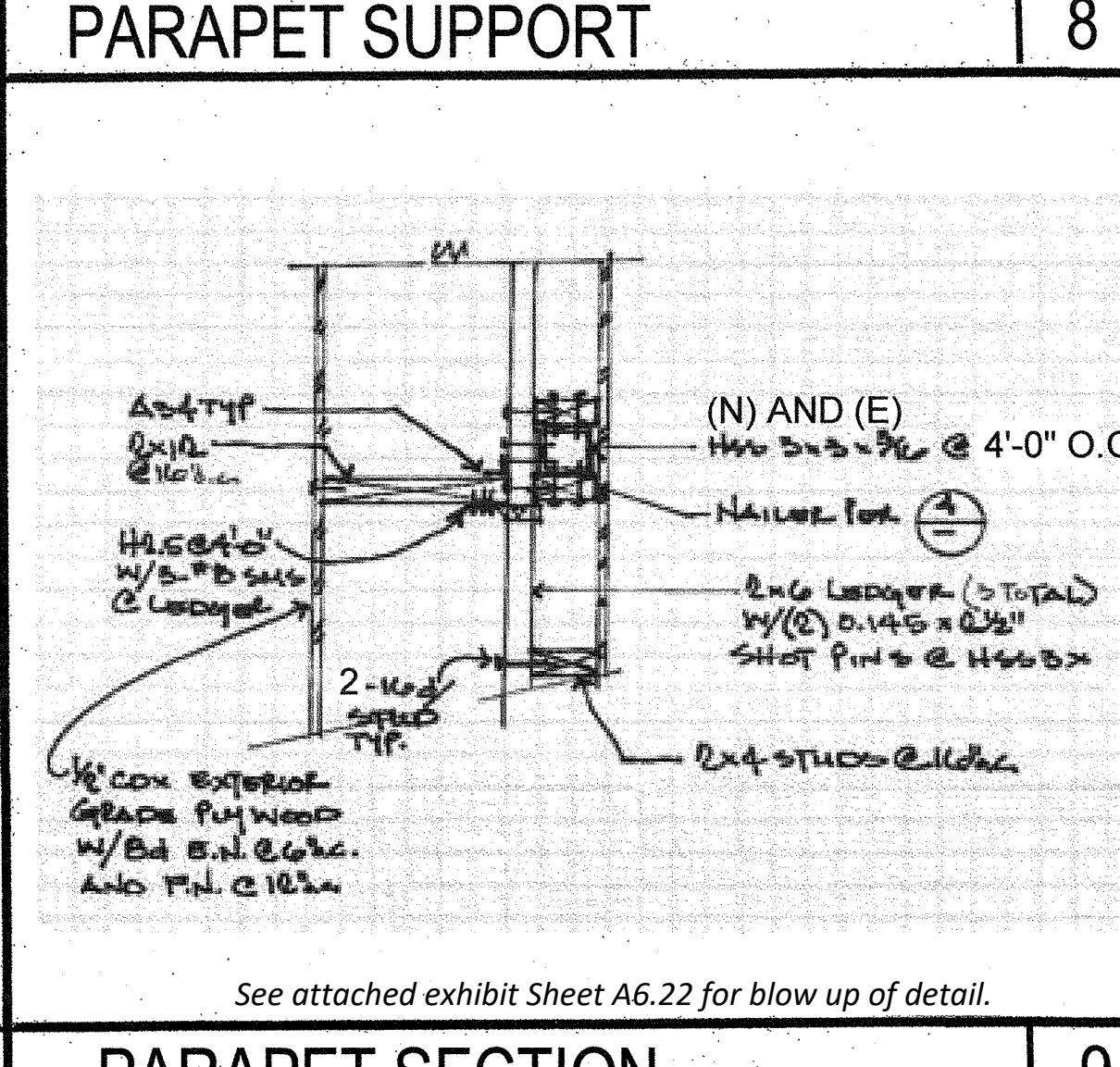
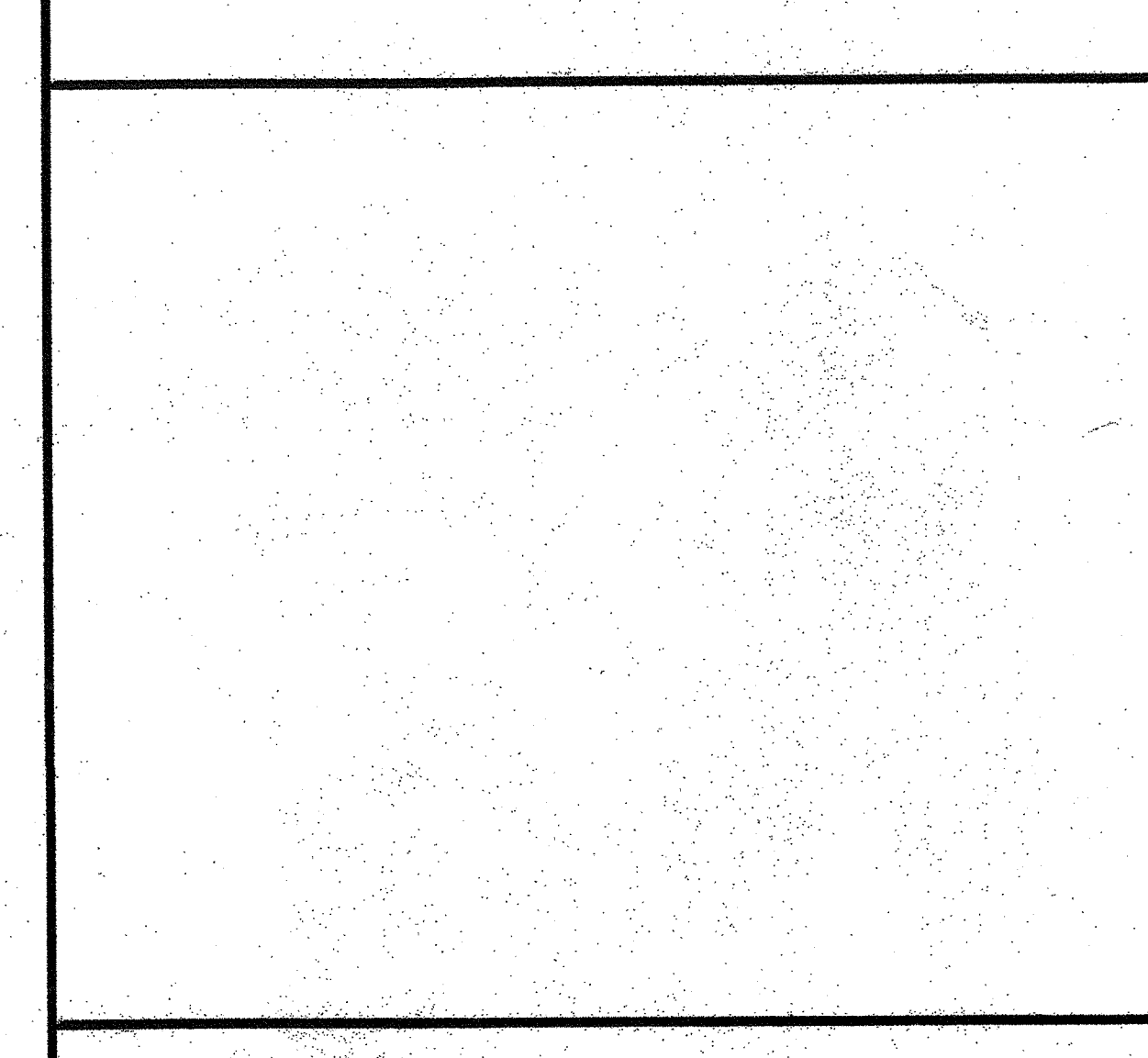
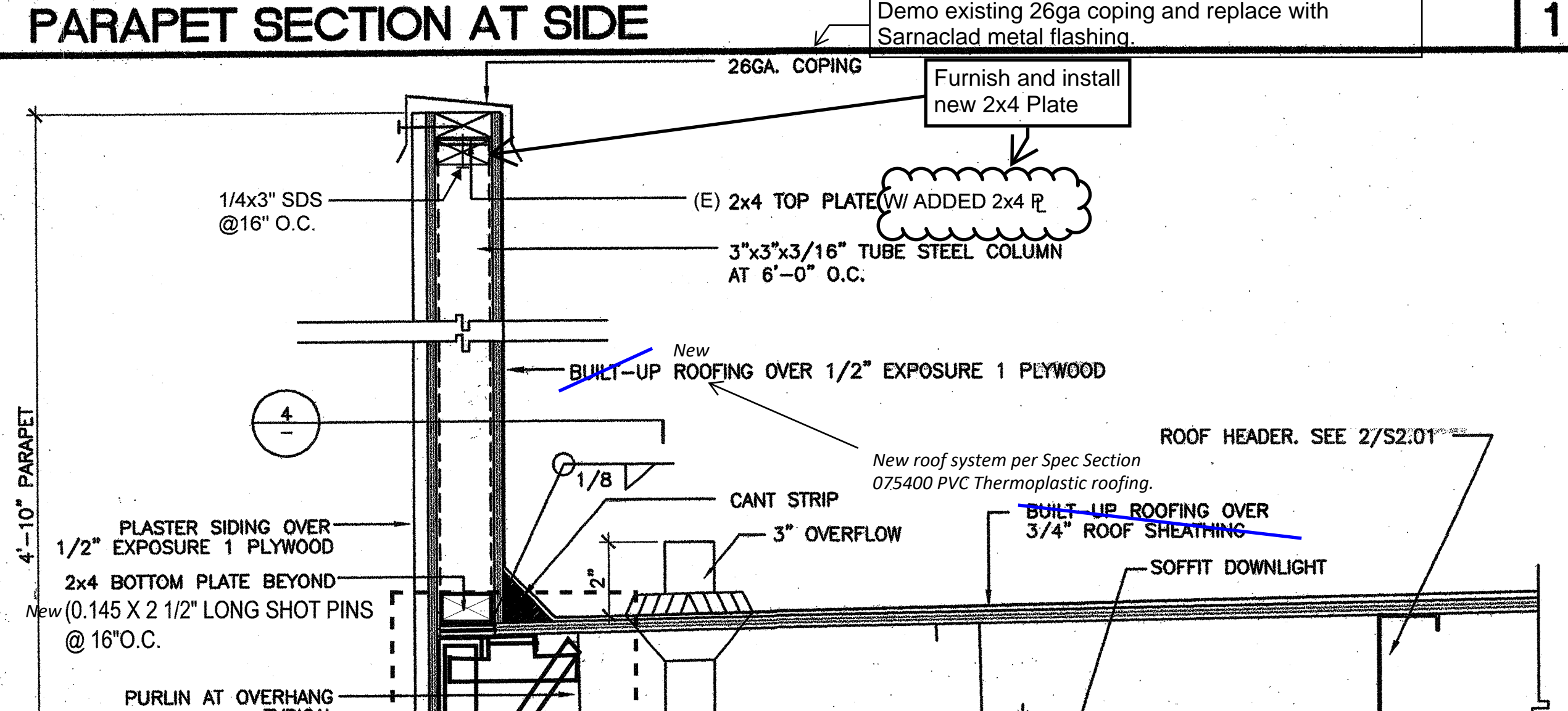
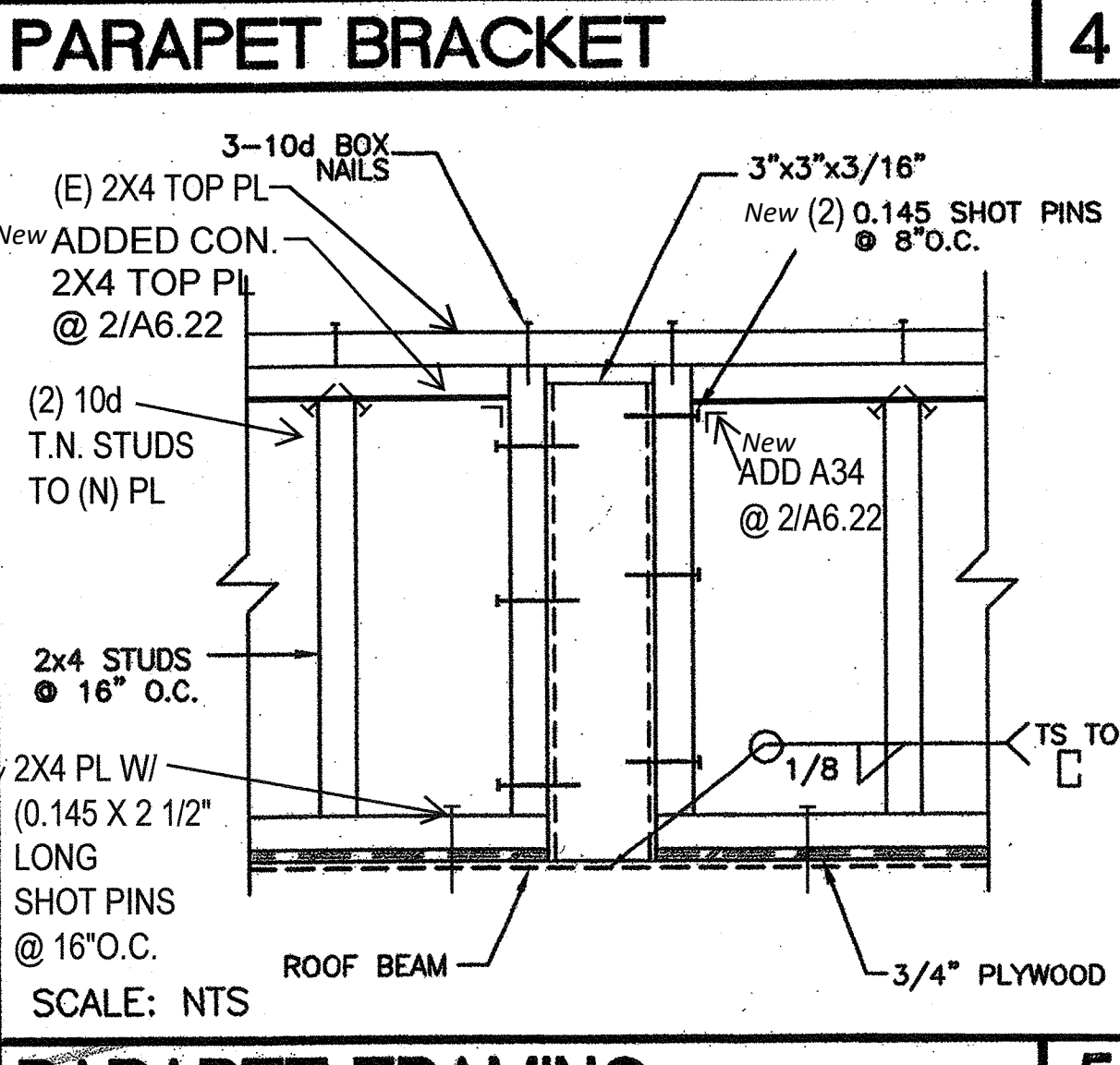
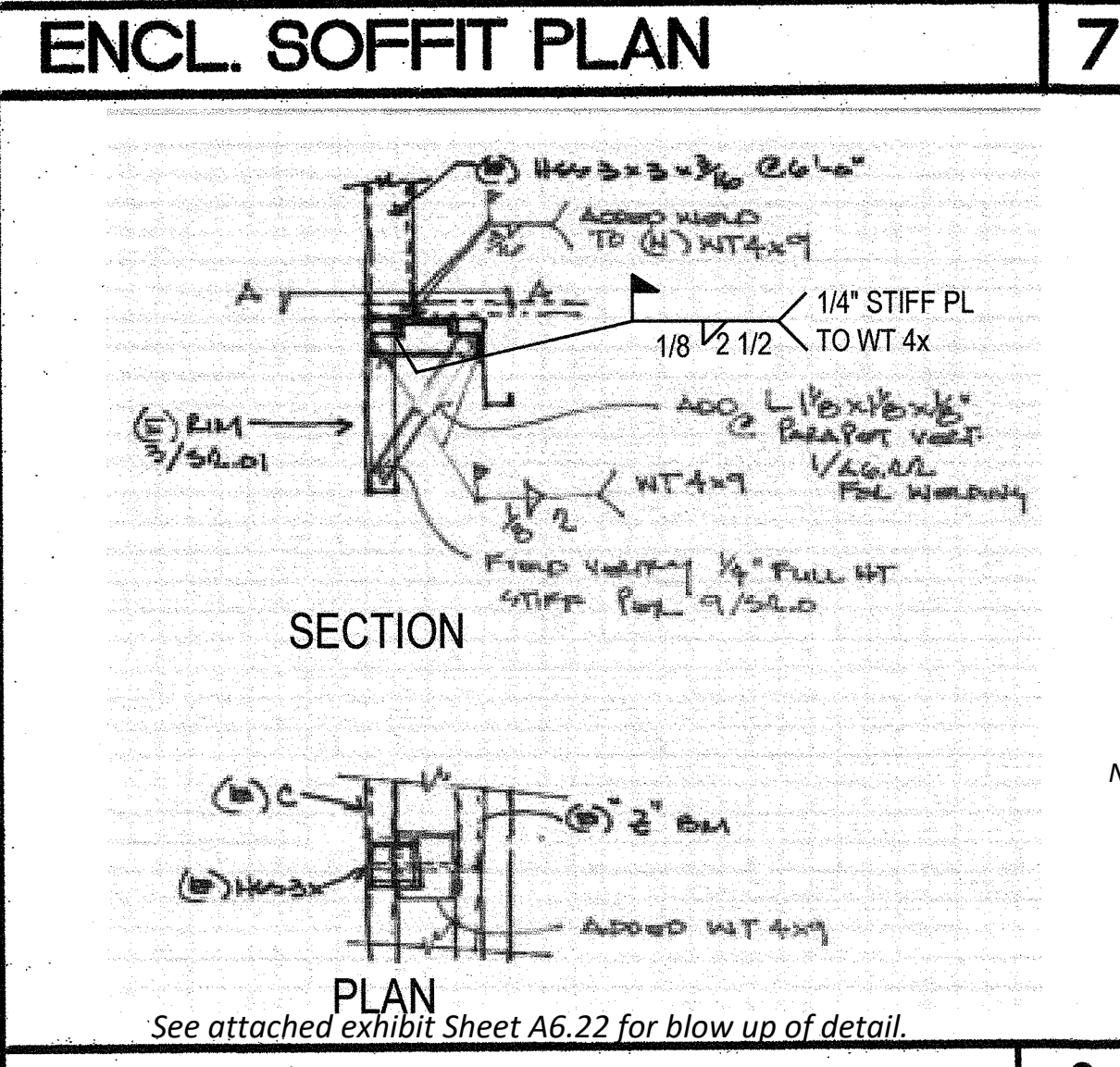
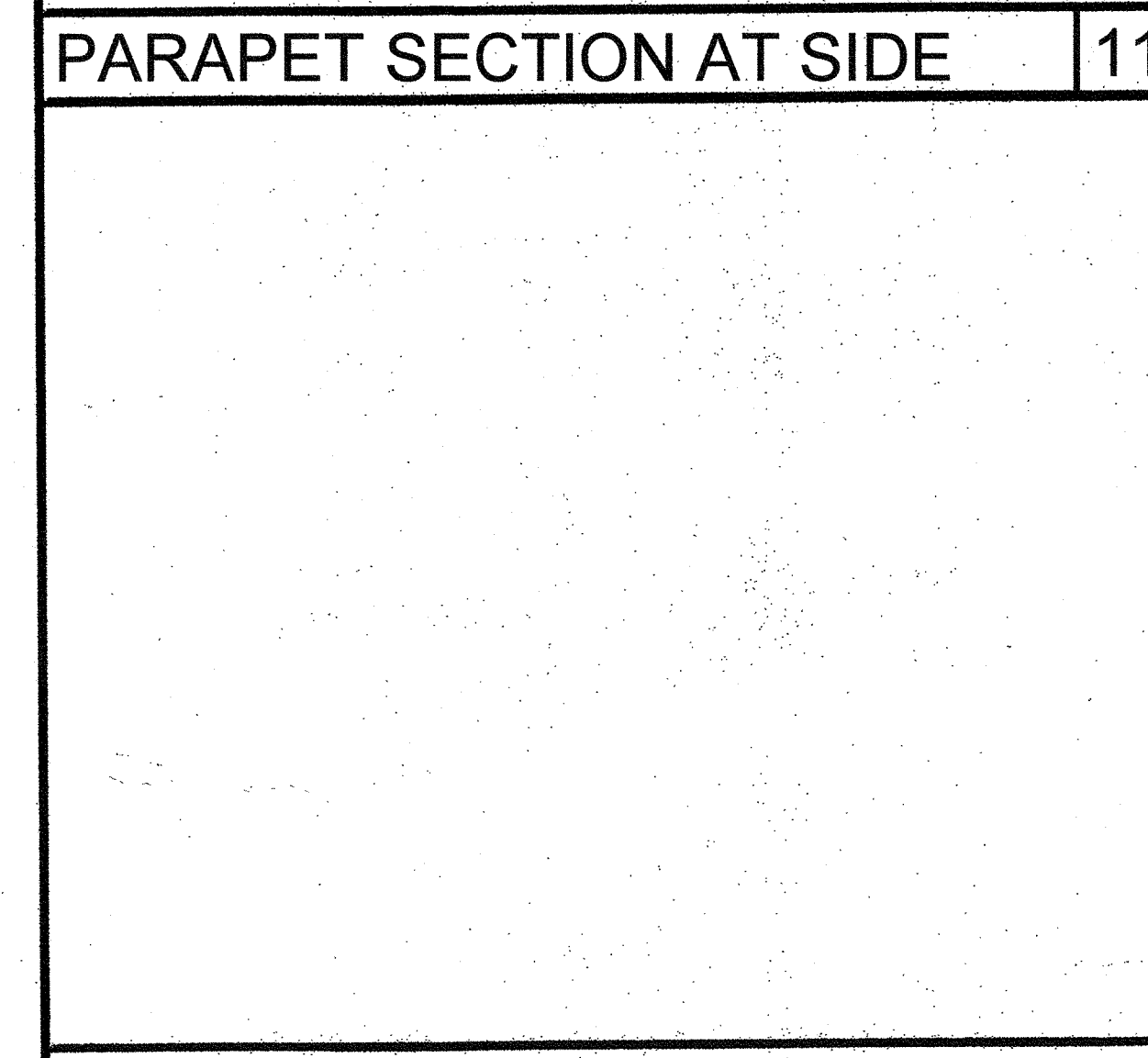
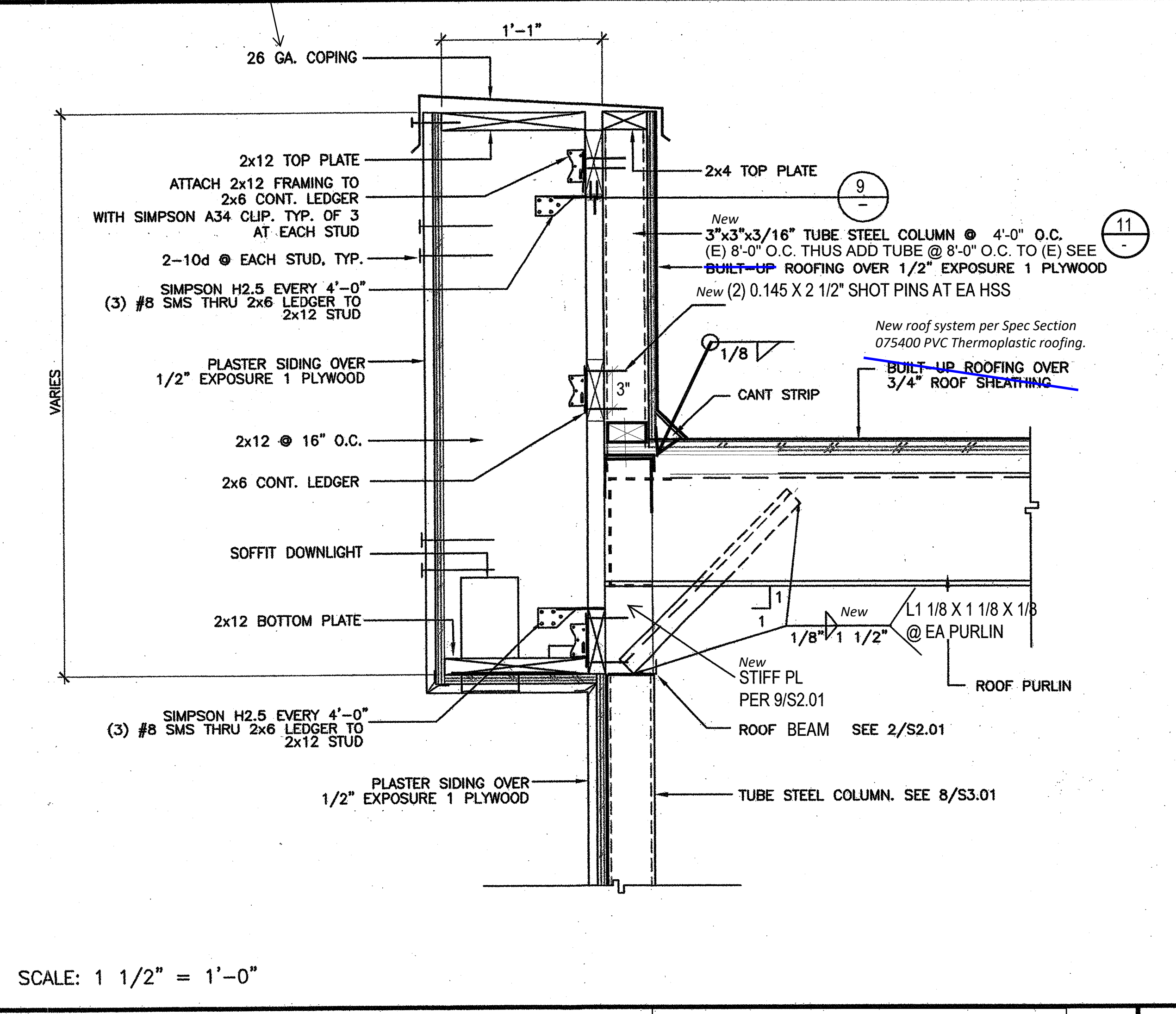
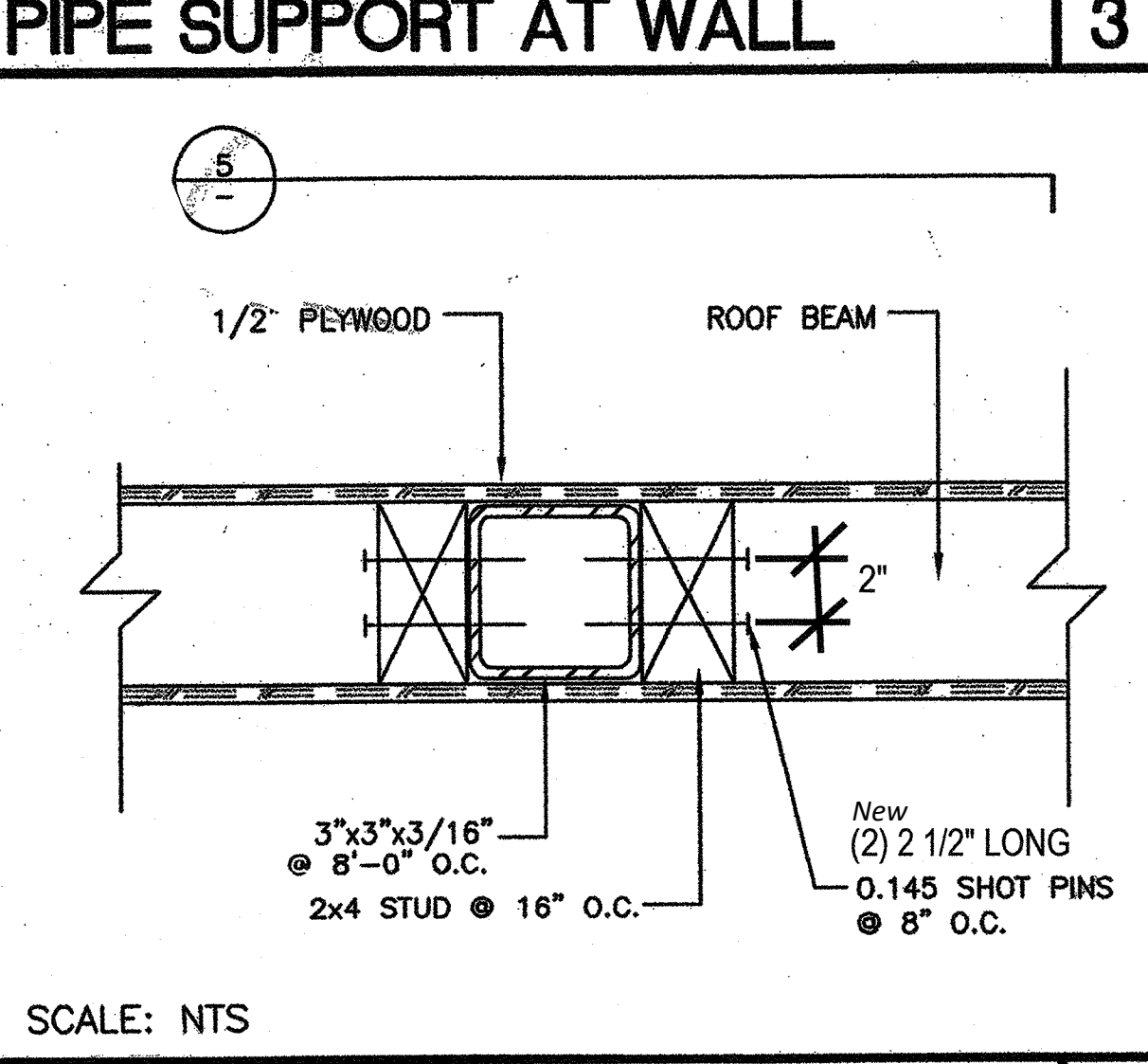
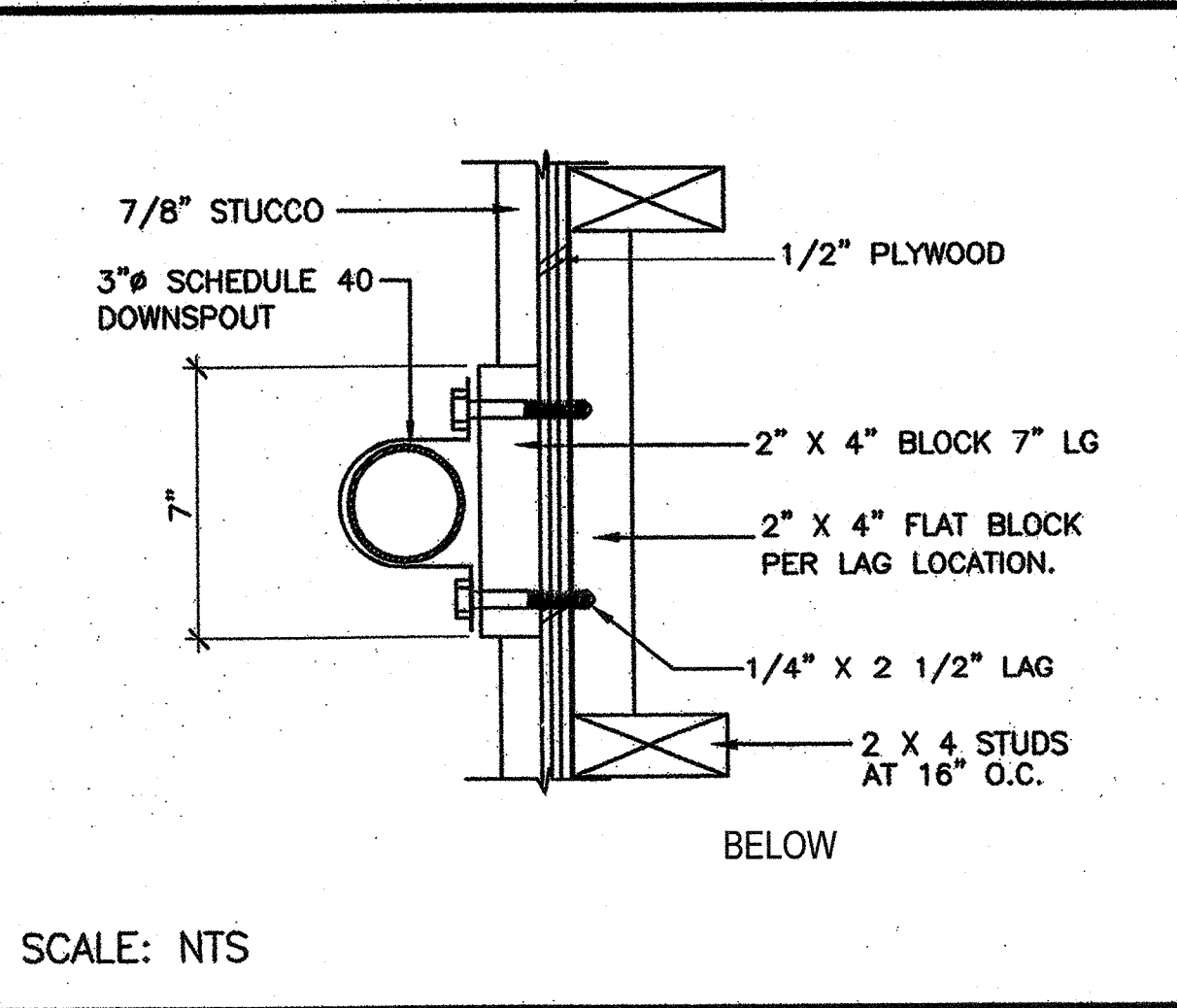
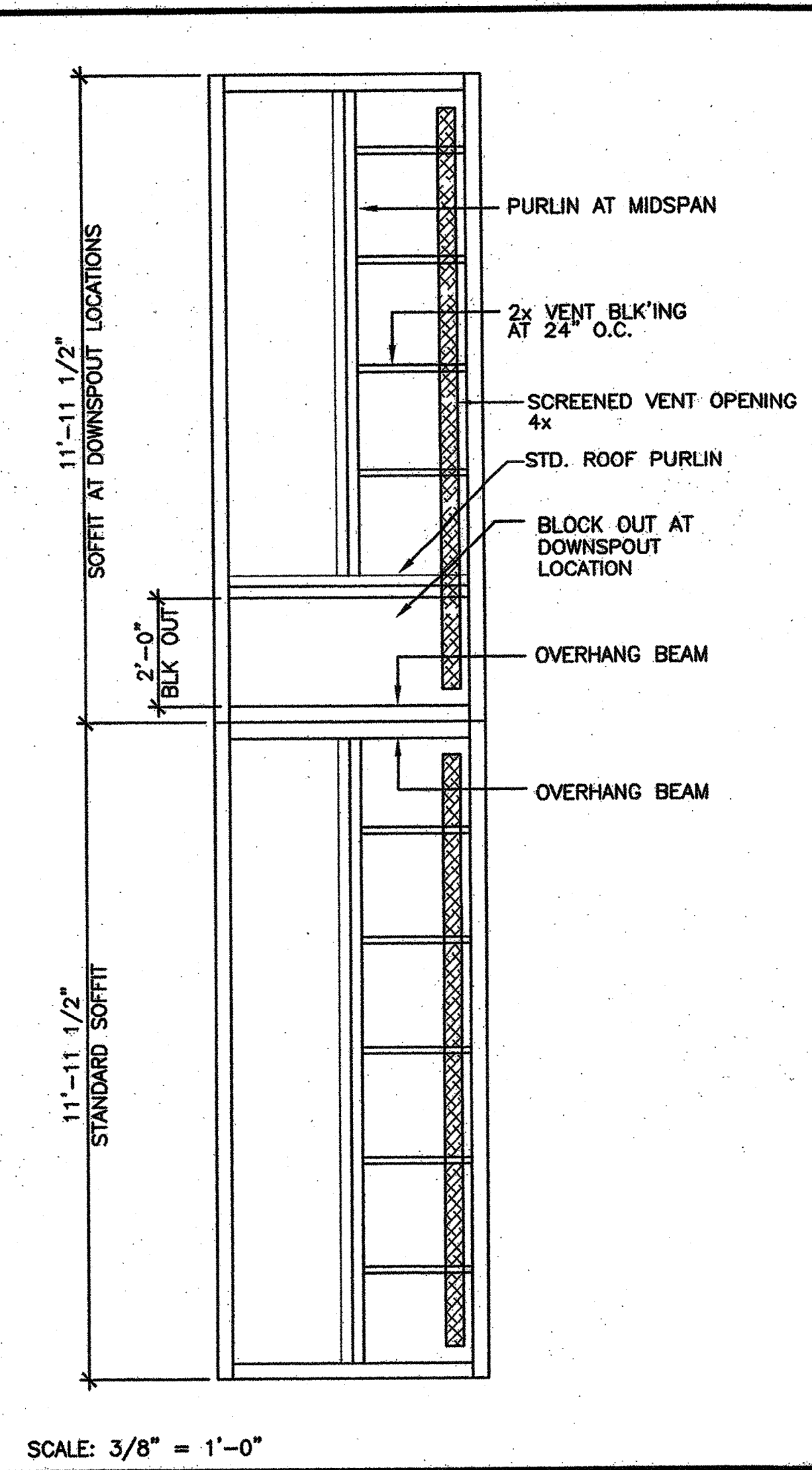
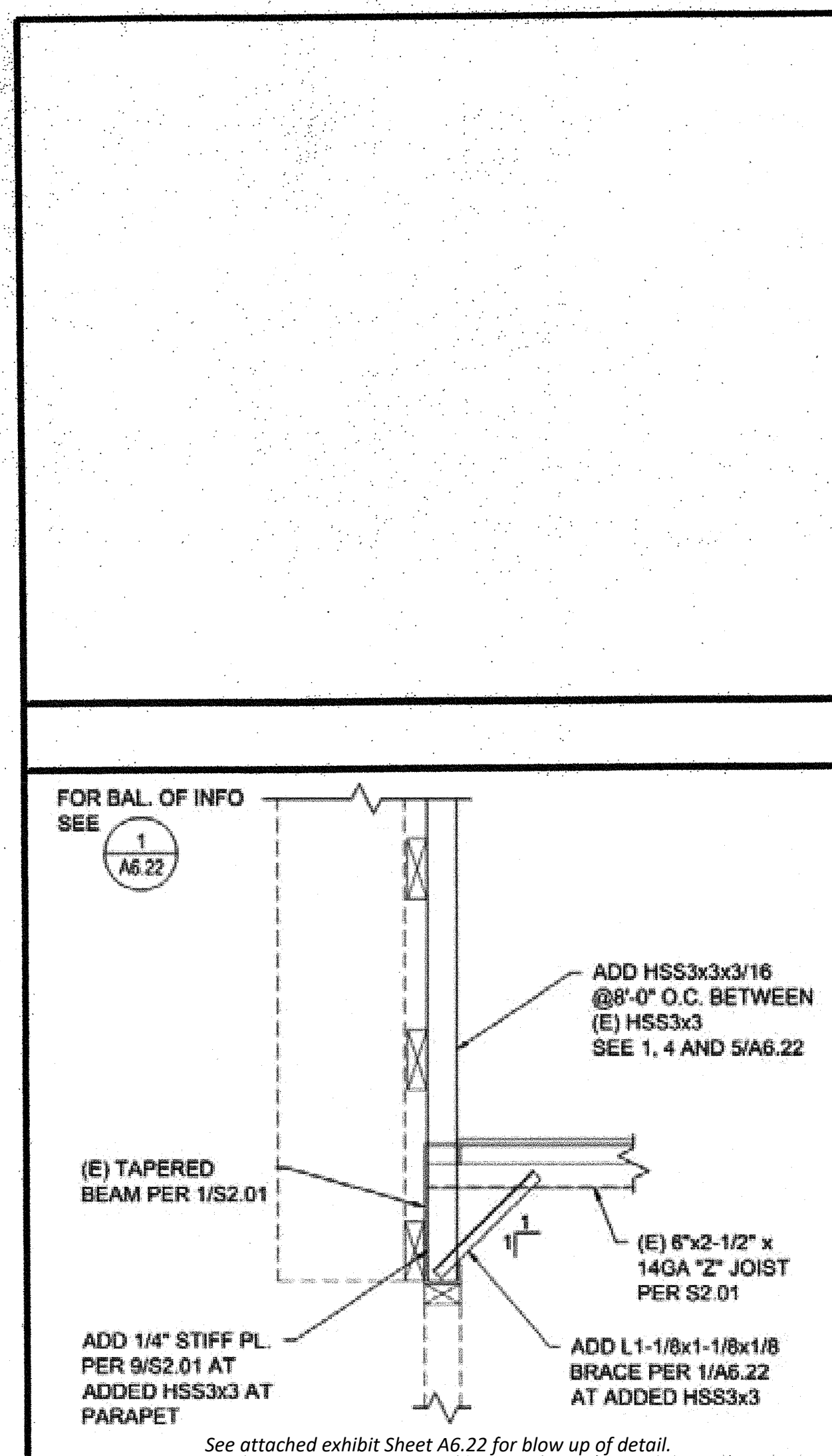
Electrical Engineer's Seal  
Mechanical Engineer's Seal  
Structural Engineer's Seal  
Architect's Seal

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101413  
DATE: 11/15/02

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

PROJECT NUMBER: 4094  
OAK PARK UNIFIED SCHOOL DISTRICT  
BROOKSIDE ELEMENTARY SCHOOL (1) 72' x 40' ADMINISTRATION BUILDING

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MODTECH Index No. **A6.21**



**NOTES**

11

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 PH (909) 943-4014  
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ARCHITECTURAL PARAPET DETAILS **A6.22**

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	NEW SHEET ADDED	3/15/02	CM

Electrical Engineer's Seal  
 Mechanical Engineer's Seal  
 Structural Engineer's Seal  
 Architects Seal

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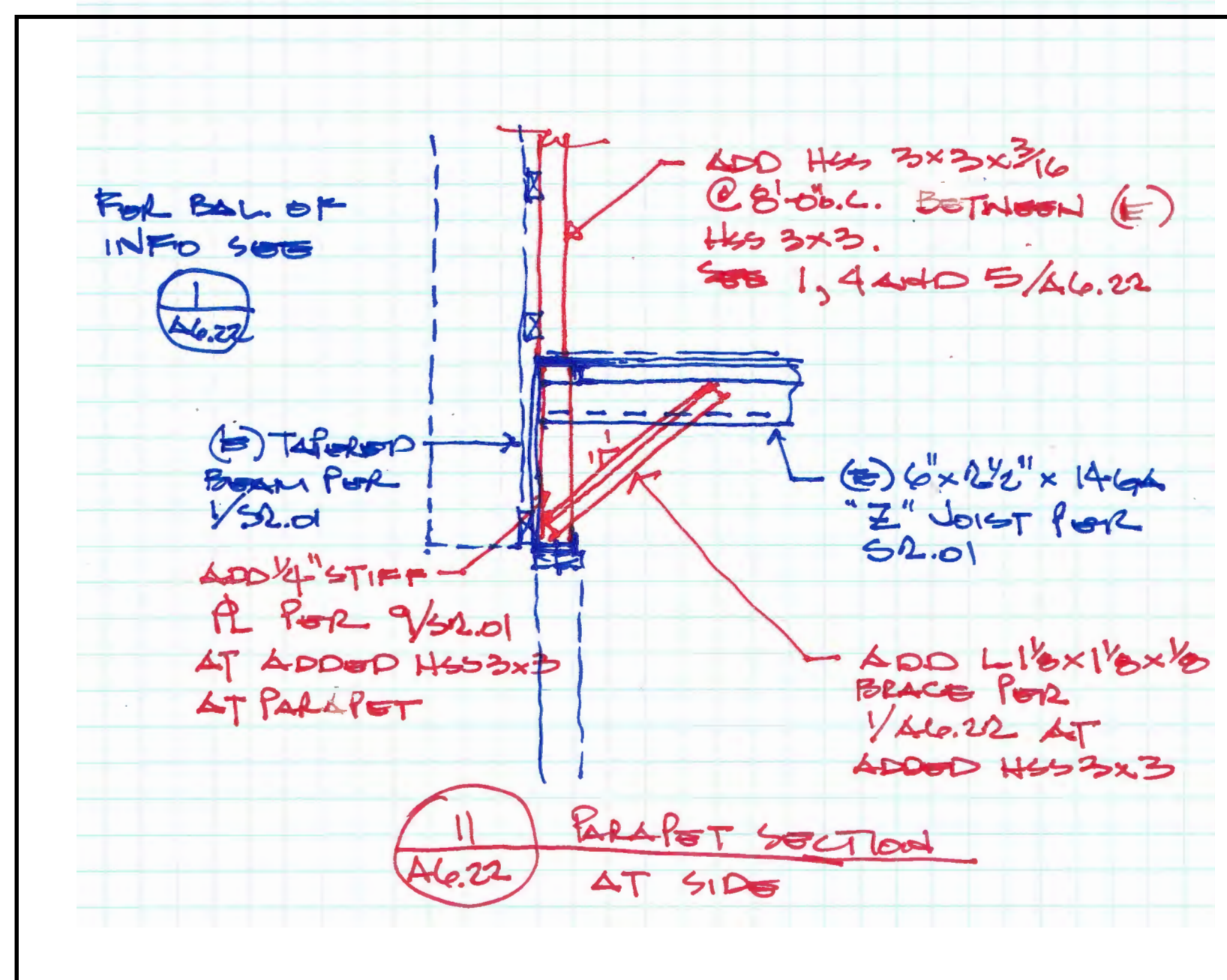
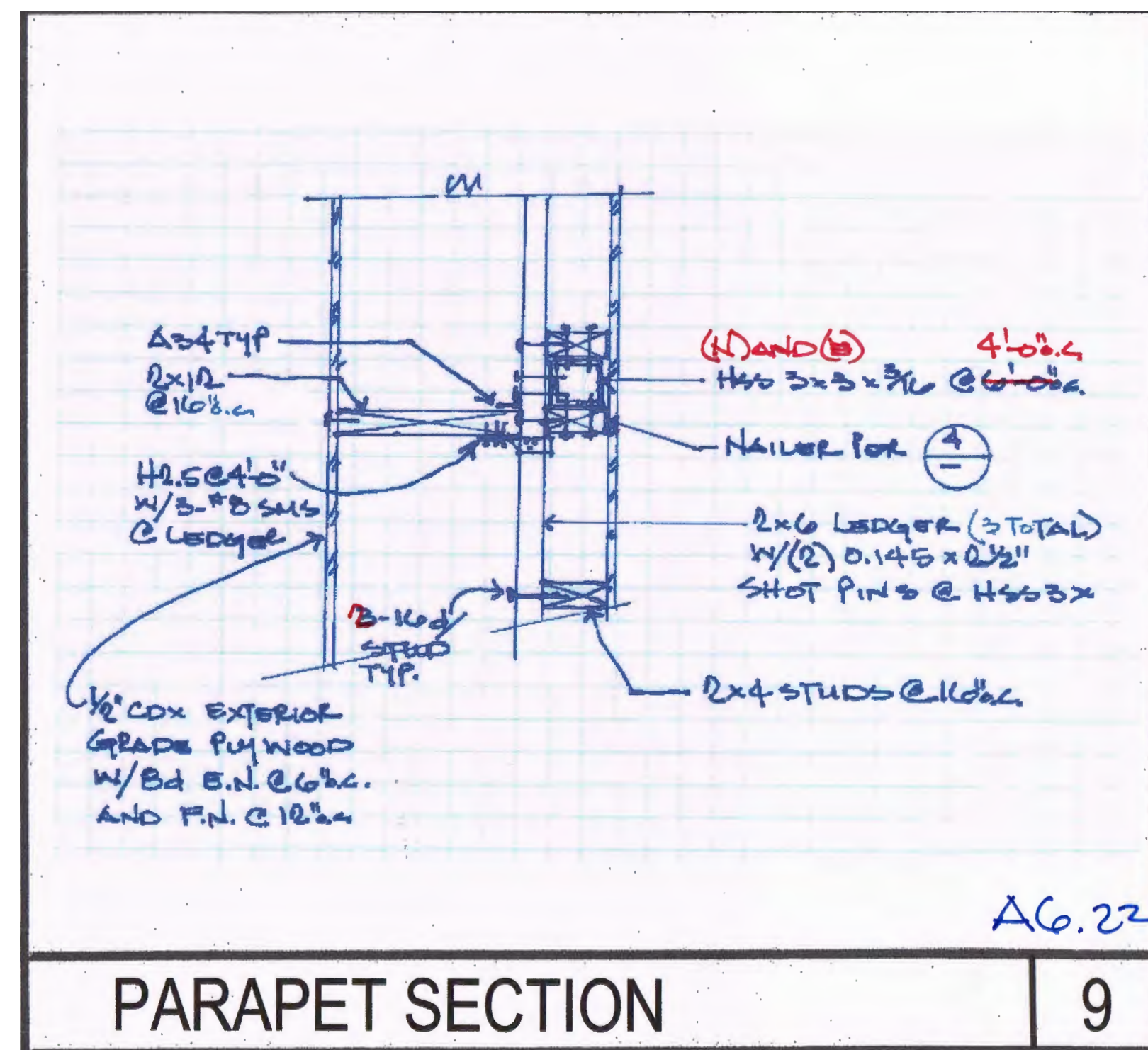
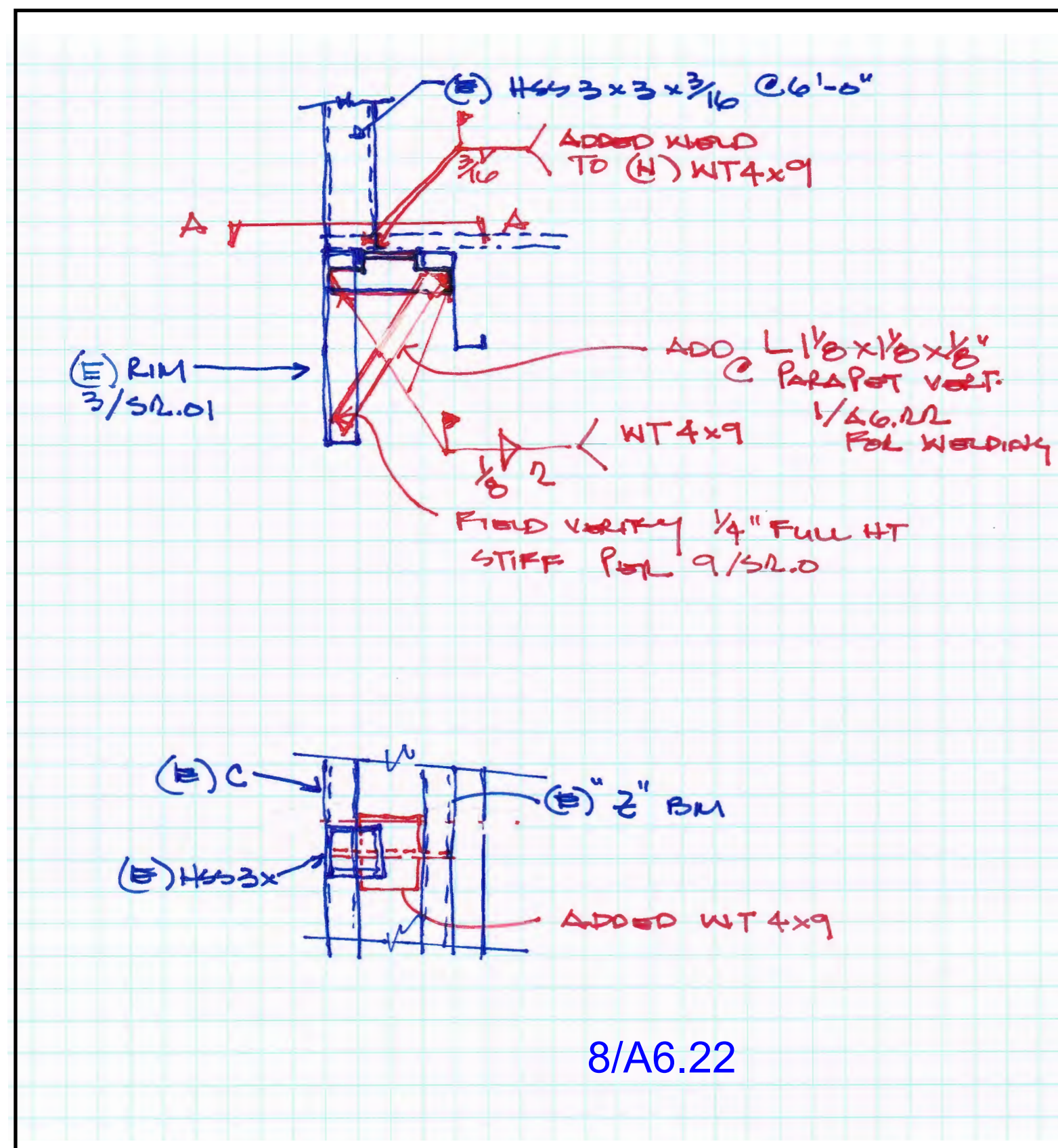
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 OAK PARK UNIFIED SCHOOL DISTRICT  
 BROOKSIDE ELEMENTARY SCHOOL  
 (1) 72' x 40' ADMINISTRATION BUILDING

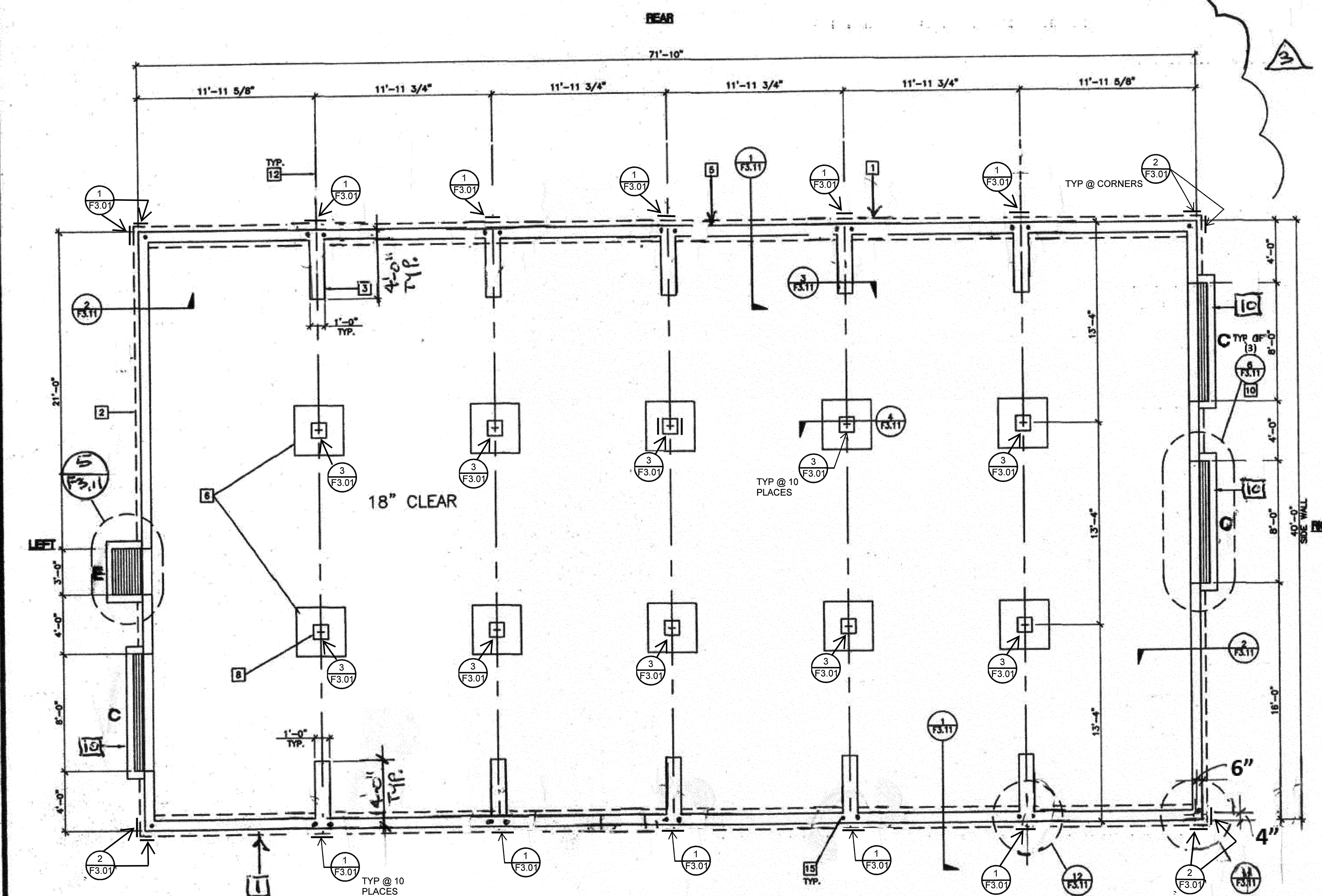
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**ARCHITECTURAL PARAPET DETAILS A6.22**

PROJECT NO. 4094 - OAK PARK UNIFIED SCHOOL DISTRICT - BROOKSIDE ELEMENTARY SCHOOL - (1) 72' x 40' ADMINISTRATION BLDG. FILE PATH: 4094-A6.22.DWG





**FOOTING SCHEDULE**

DESIGN FLOOR LIVE LOAD	50 PSF	50+20 PSF	100 PSF	125 PSF
SIDEWALL	12"	12"	12"	12"
ENDWALL	17" 1/4"	19" 3/4"	19" 3/4"	19" 3/4"
PAD	3'-9" x 3'-5"	3'-10"	3'-10"	3'-10"
PAD AT 4" SEPARATION	3'-9" x 3'-9"	4'-0" x 3'-9"	4'-0" x 3'-9"	4'-0" x 3'-9"

**VENTING SCHEDULE**

BUILDING	(SF)	VENTING REQUIRED	SIDE WALL VENTING	SIDE WALL VENT AREA	END WALL VENTING	END WALL VENT AREA	TOTAL VENT SUPPLIED
24'x40'	960	0.4	(5) A	7.0			7.0
36'x40'	1440	0.6	(4) B	6.6			6.6
48'x40'	1920	1.0	(6) B	11.4			11.4
60'x40'	2400	1.6	(4) C	12.92			12.92
72'x40'	2880	19.2	(3) C (1) E	15.90 4.13			19.63
84'x40'	3360	22.4	(6) D	19.38	(1) D	3.85	23.03
96'x40'	3840	25.6	(6) C	19.38	(1) D	6.8	25.9
108'x40'	4320	28.8	(8) C	19.38	(6) A	9.5	28.9
120'x40'	4800	32	(8) B	19.38	(9) A	11.1	32.52
132'x40'	5280	35.2	(8) C	19.38	(11) A	16.1	35.5
144'x40'	5760	38.4	(8) C	19.38	(13) A (1) D	21.13	39.08

**LEGEND**

VENT	SIZE	AREA (SF)	GRATE SIZE
A	3'-9"x5"	1.58	4"x6"
B	5'-9"x5"	1.58	4"x6"
C	7'-9"x8"	5.19	8"x8"
D	3'-9"x8"	5.19	8"x8"

ACCESS (OPTIONAL) E 2'-9" x 1'-6" 4.13 3'x2'

**KEY NOTES**

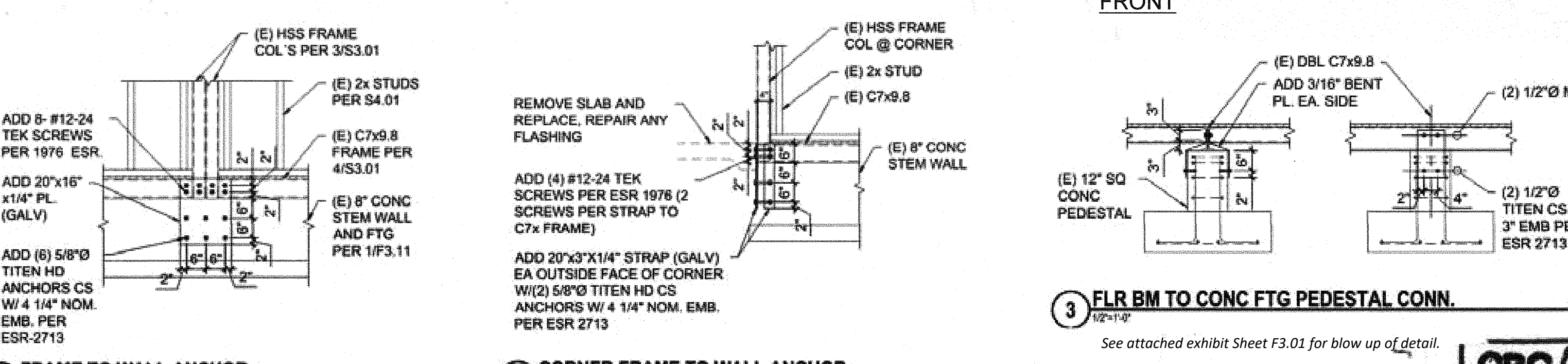
- 1 END WALL FOOTING - SEE FOOTING SCHEDULE
- 2 SIDE WALL FOOTING - SEE FOOTING SCHEDULE
- 3 INTERIOR RETURN FOOTING - SEE FOOTING SCHEDULE
- 4 MODLINE RETURN AT 4" SEPARATION - OPTIONAL
- 5 STEM WALL - 8" TYPICAL UON
- 6 MODLINE PAD
- 7 MODLINE PAD AT 4" SEPARATION - OPTIONAL
- 8 12" DIA OR SQUARE PEDESTAL (TYPICAL AT MODLINE)
- 9 18" DIA OR SQUARE PEDESTAL (TYPICAL AT MODLINE)
- 10 TYPICAL VENT

- 12 MODLINE
- 13 BUILDING SEPARATION AT ADJACENT BUILDING - OPTIONAL
- 14 NOT USED
- 15 ANCHOR BOLT LOCATION - (1) AT EACH CORNER OF BUILDING AND (2) AT EACH MODLINE LOCATION

- NOTES**
1. SOIL TYPE AND FOUNDATION

A. BEARING: SOIL BEARING VALUE OF 1000 PSF USED FOR DESIGN.  
 B. FOOTINGS: ALL FOOTINGS SHALL EXTEND 12 INCHES MINIMUM INTO NATIVE SOIL OR APPROVED ENGINEERED FILL.  
 2. CONCRETE  
 ALL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM STRENGTH AT 28 DAYS: FOOTINGS: f'c = 3000 PSI (DESIGN BASED ON f'c = 2000 PSI, CONCRETE SHALL CONFORM TO TITLE 24 SECTION 19054.2.3 METHOD A OR B. METHOD A NON-DESIGNED MIX PER TABLE 19A-A-S, METHOD B PER SECTION 19054.3.1, CONCRETE SUPPLIER SHALL PROVIDE CONCRETE MIX DESIGN AND A BREAK HISTORY OF 30 CONSECUTIVE BREAKS IDENTIFIED TO THAT MIX DESIGN. ALL CEMENT SHALL BE TYPE I OR TYPE II PER ASTM C-150. UNLESS NOTED OTHERWISE ON THE APPROVED PLANS, SPECIFICATIONS OR GEOTECHNICAL REPORT FOR OSA METHOD A, THE FOLLOWING PROPORTIONS ARE REQUIRED: MINIMUM 7.1 SACKS PER YARD, WATER CONTENT SHALL NOT EXCEED 6 GALLONS PER SACK, AGGREGATE SHALL BE 3/4" TO 1" MAXIMUM SIZE BUT NOT MORE THAN 3/4" OF MINIMUM CLEAR BAR SPACING, ANCHOR BOLTS, DOWELS, REINFORCING STEEL AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.  
 3. REINFORCING STEEL (GRADE 40 MIN)  
 ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 WELDED REINFORCING STEEL SHALL CONFORM TO ASTM A-706, OR SHALL BE ASTM A-615 PREHEATED AND WELDED PER AWS D1.4-79.  
 4. FOR FOOTINGS USING TRENCH FOR FORMING WIDTH SHALL BE INCREASED 2" EA. SIDE  
 5. THE ABOVE FOUNDATION PLAN HAS 1/4" ADDED AT EACH MOD LINE AND 1/8" AT EACH SIDE WALL AND DOES NOT MATCH THE FLOOR PLAN. THIS IS REQUIRED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.  
 6. MAX VENT LENGTH AT SIDE WALLS IS 8'-0"  
 MAX VENT LENGTH AT END WALLS IS 4'-0"  
 MIN DISTANCE FROM VENT TO EDGE OF MODULE IS 2'-0"  
 MIN DISTANCE BETWEEN VENTS IS 2'-0"

**NOTES**  
 DELETE ALL UNDER FLOOR VENTS WHEN SINGLE STORY BUILDING OR BOTTOM FLOOR OF TWO STORY BUILDING UTILIZES THE CONCRETE FLOOR OPTION.



**REVISIONS**

NO.	DESCRIPTION	DATE
1	ADD 5-#12-24 TEK SCREWS PER 1976 ESR	3/15/02
2	FOUNDATION PLAN REVISED FROM P.C. & VENT SIZE HEIGHT MODIFIED PER JOB #4094	3/15/02
3	FOUNDATION PLAN REVISED FROM P.C. PER JOB #4094	5/23/02

**FOUNDATION PLAN**  
 BELOW GRADE CONCRETE  
 SCALE: 1/4" = 1'-0"

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 A 03 118756  
 AC/FLS/SS/TJP  
 Date: 10-2-2018

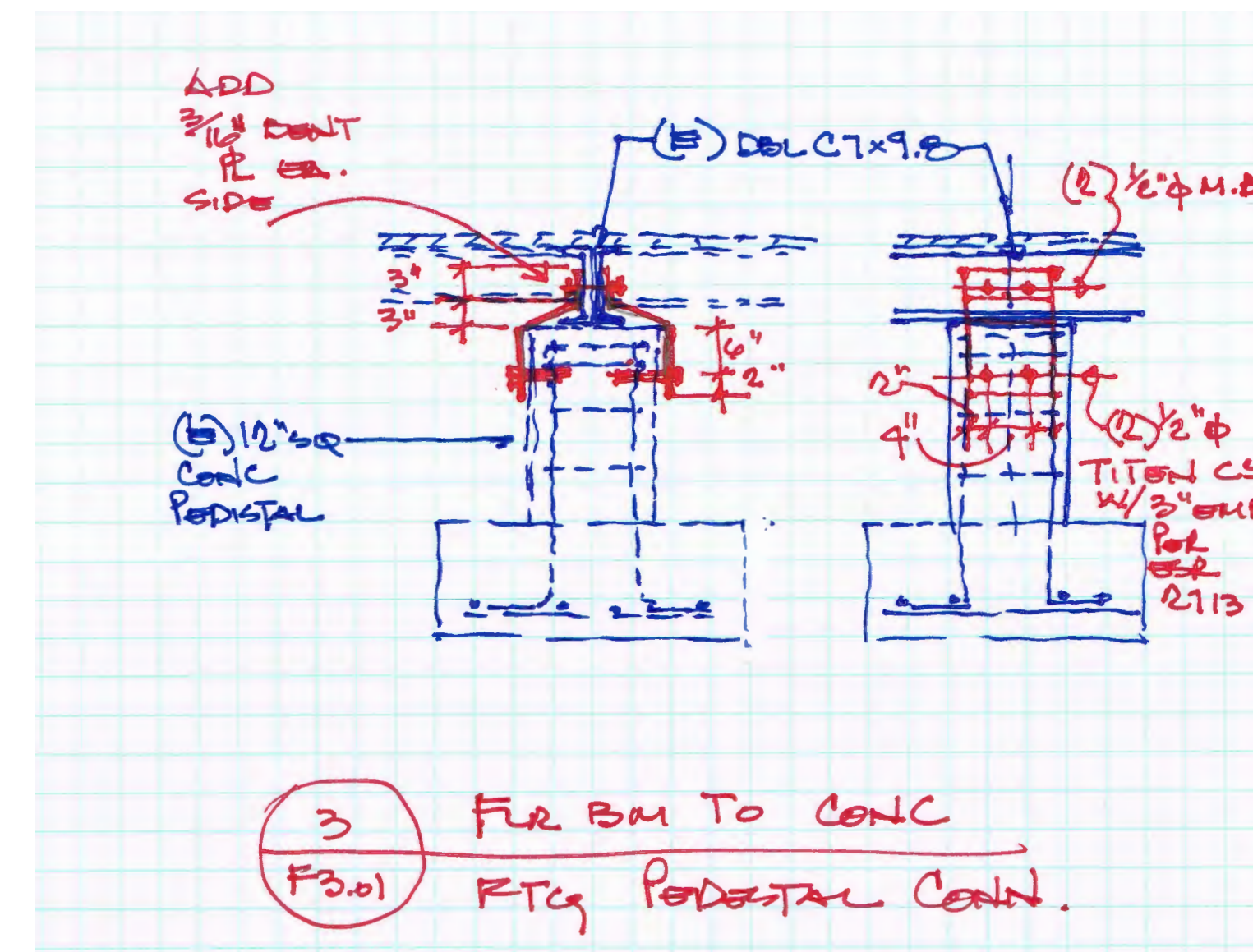
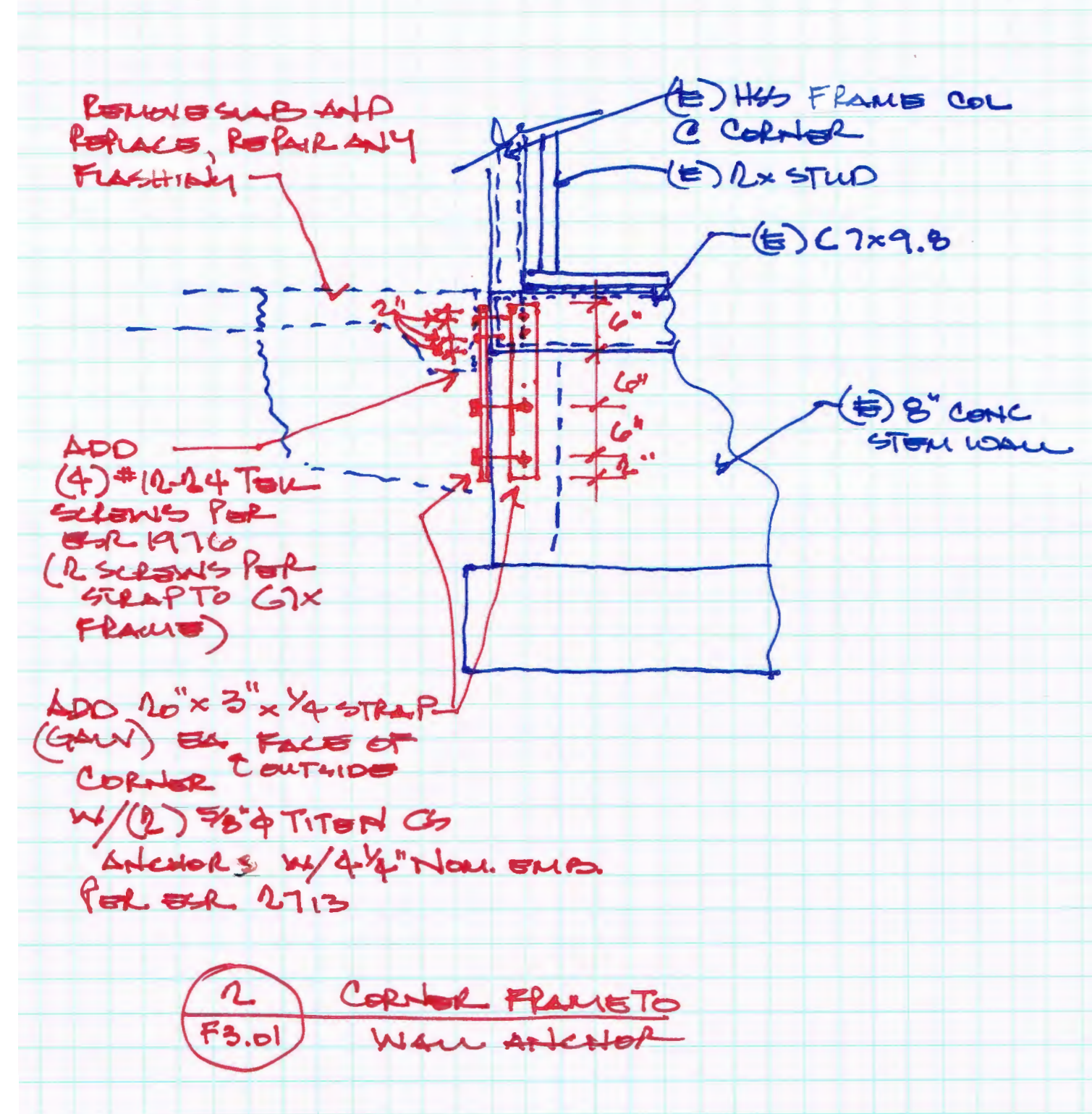
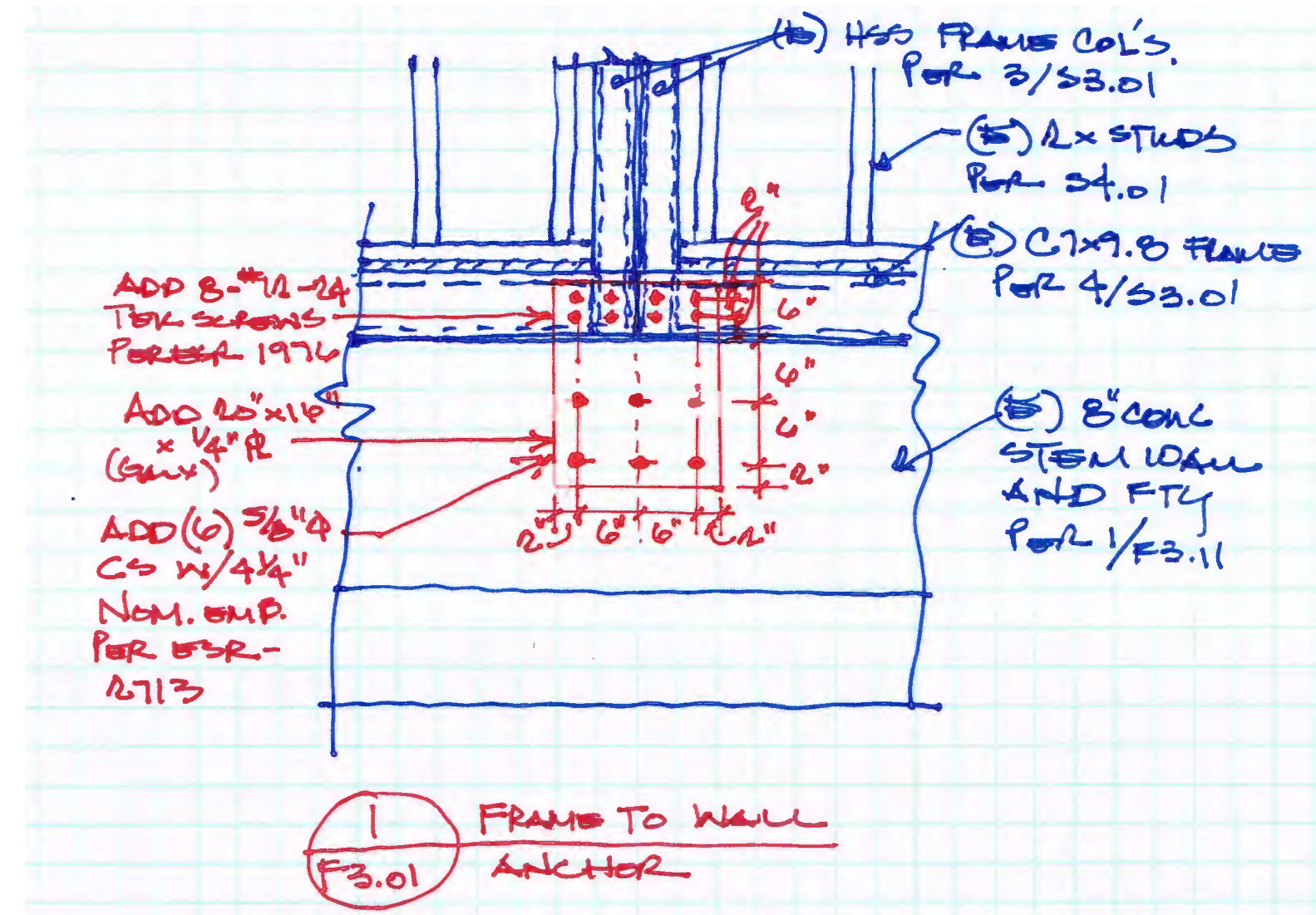
**MODTECH INC.**  
 2830 BARRETT AVENUE  
 PERRIS, CALIF. 92572  
 PH (909) 943-4014  
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PROJECT NUMBER: 4094  
 OAK PARK UNIFIED SCHOOL DISTRICT  
 BROOKSIDE ELEMENTARY SCHOOL (1) 72' x 40' ADMINISTRATION BUILDING

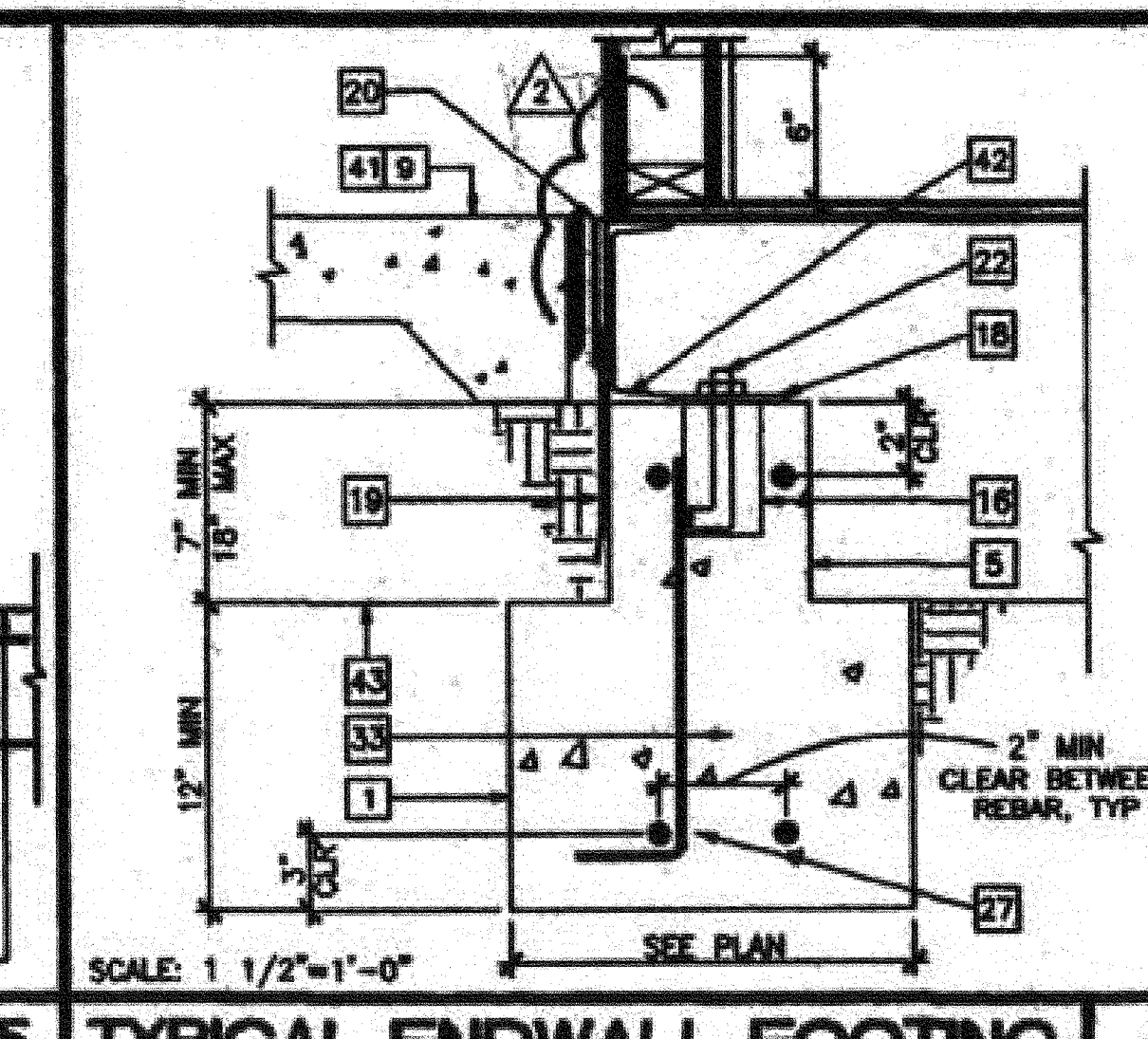
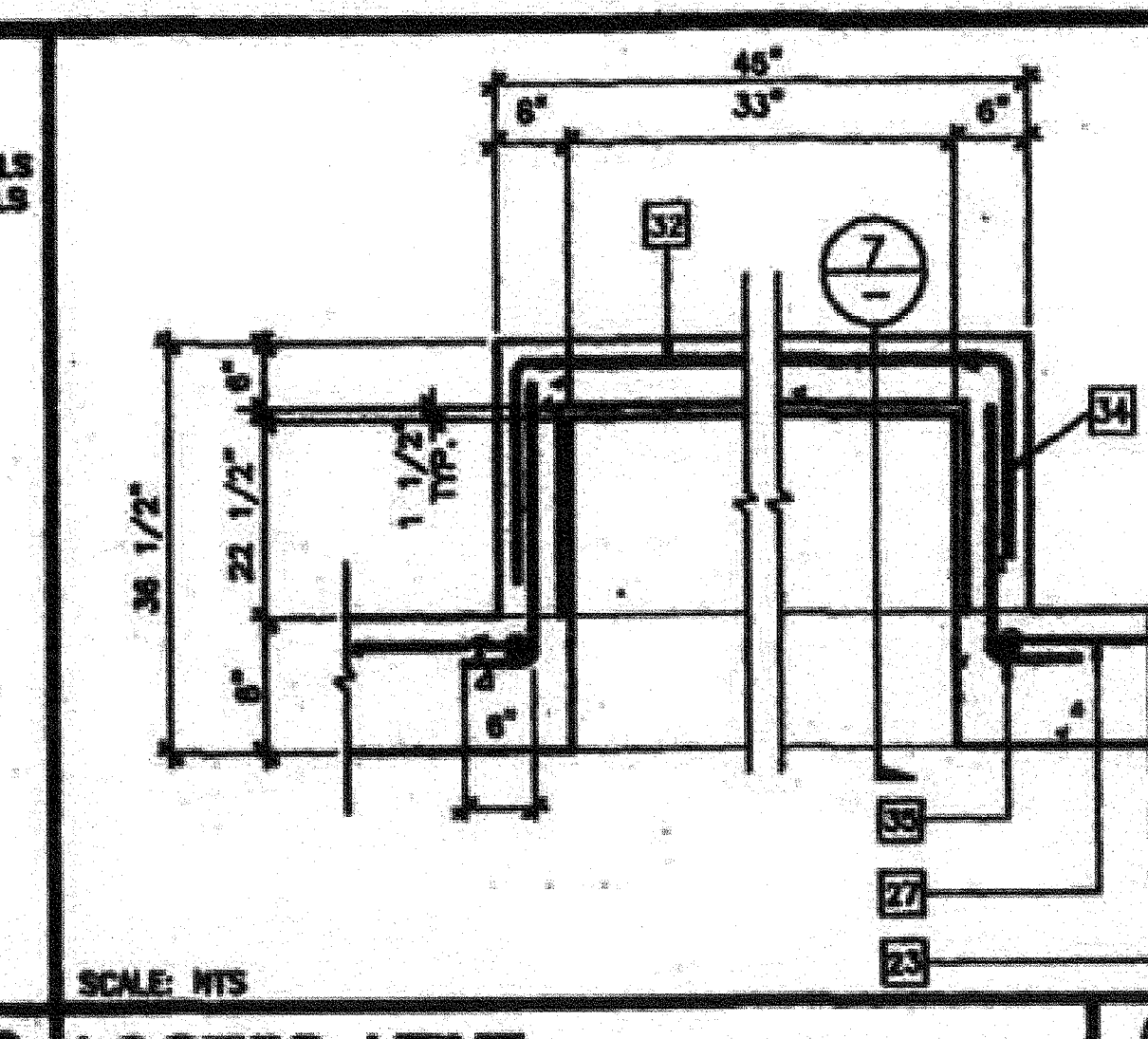
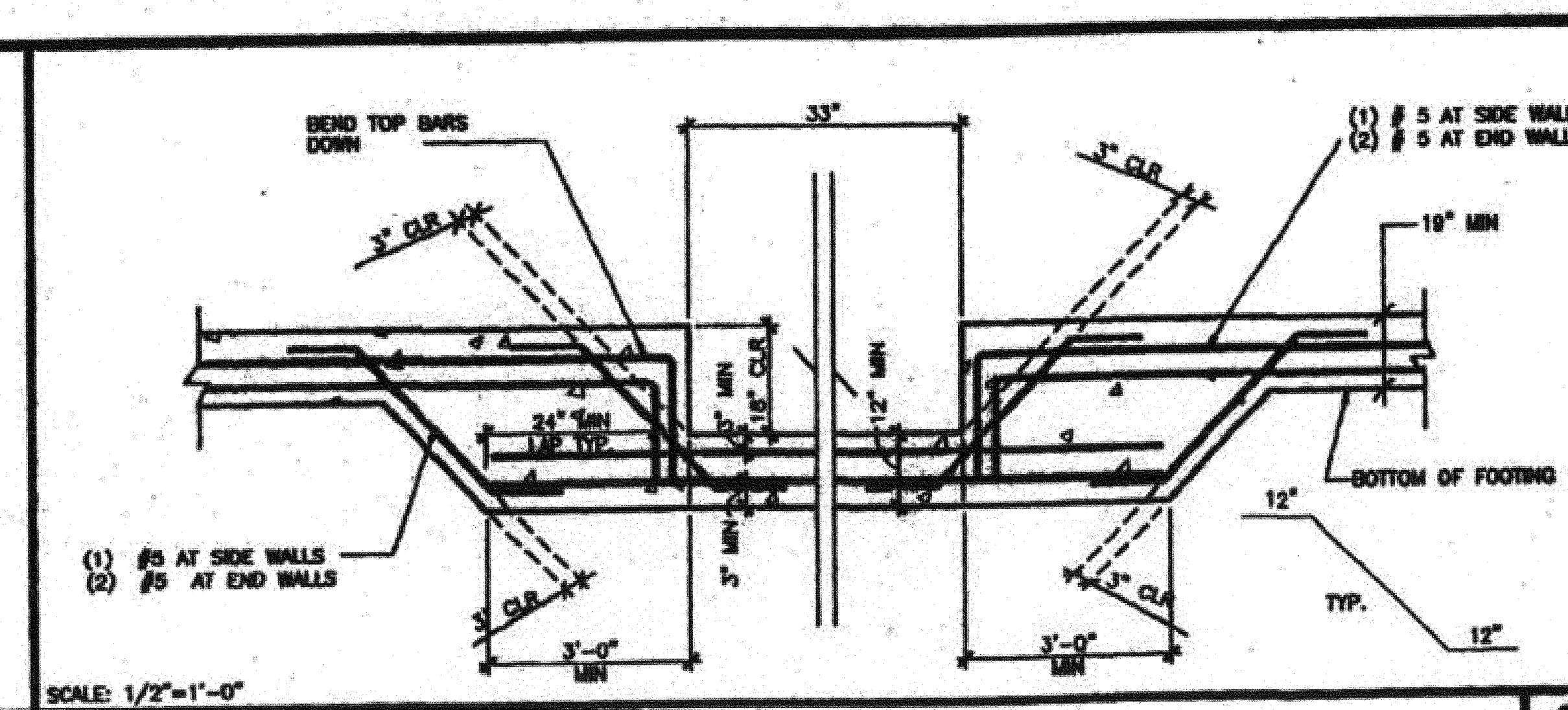
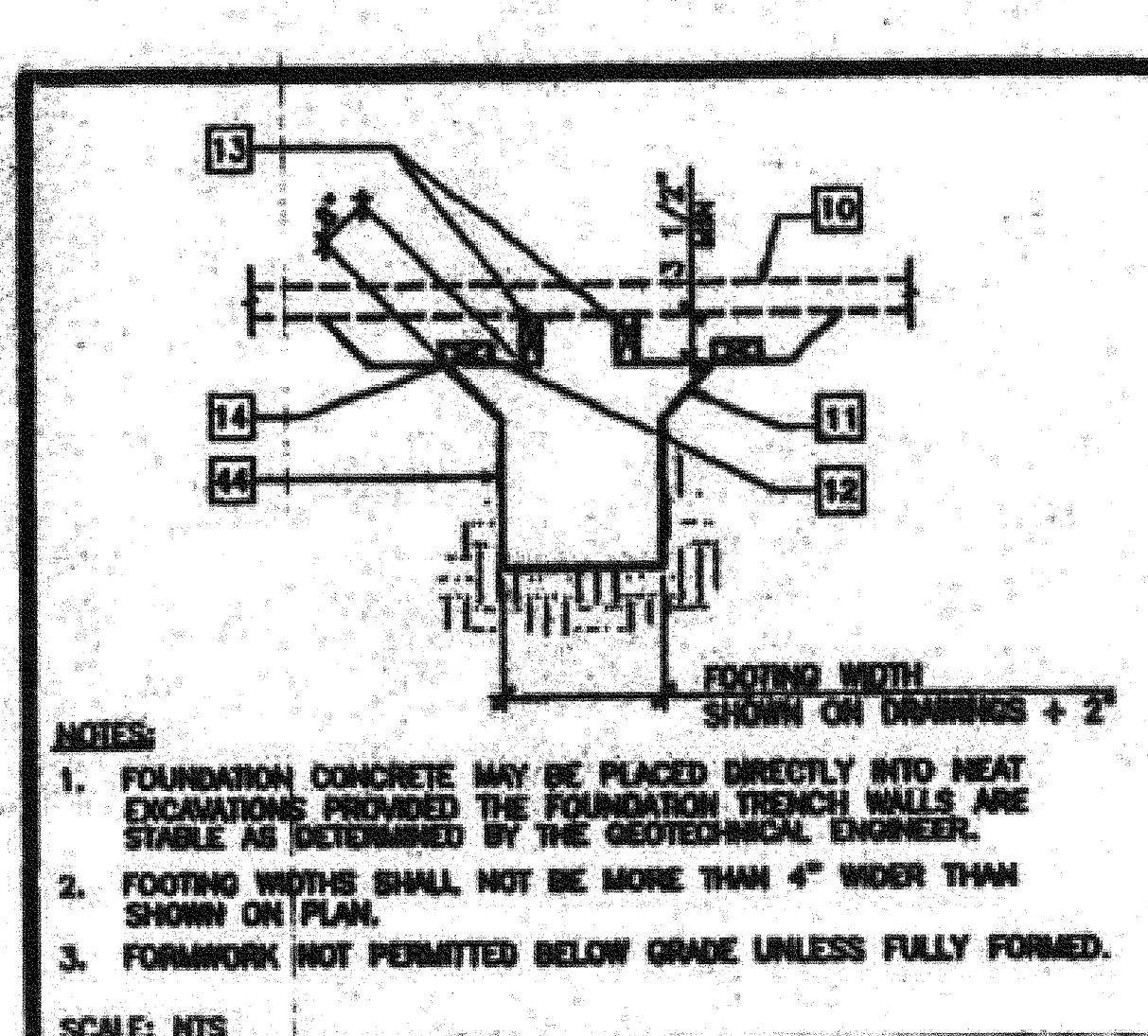
**FOUNDATION PLAN** BGC - 50+20 PSF **F3.01**

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 DATE: 3/15/02  
 CHECKED BY: SW  
 DATE: 1/5/2018

PROJECT NO. 4094-OAK PARK UNIFIED SCHOOL DISTRICT - BROOKSIDE ELEMENTARY SCHOOL - (1) 72' x 40' ADMINISTRATION BLDG. FILE PATH: 4094-F3.01.DWG

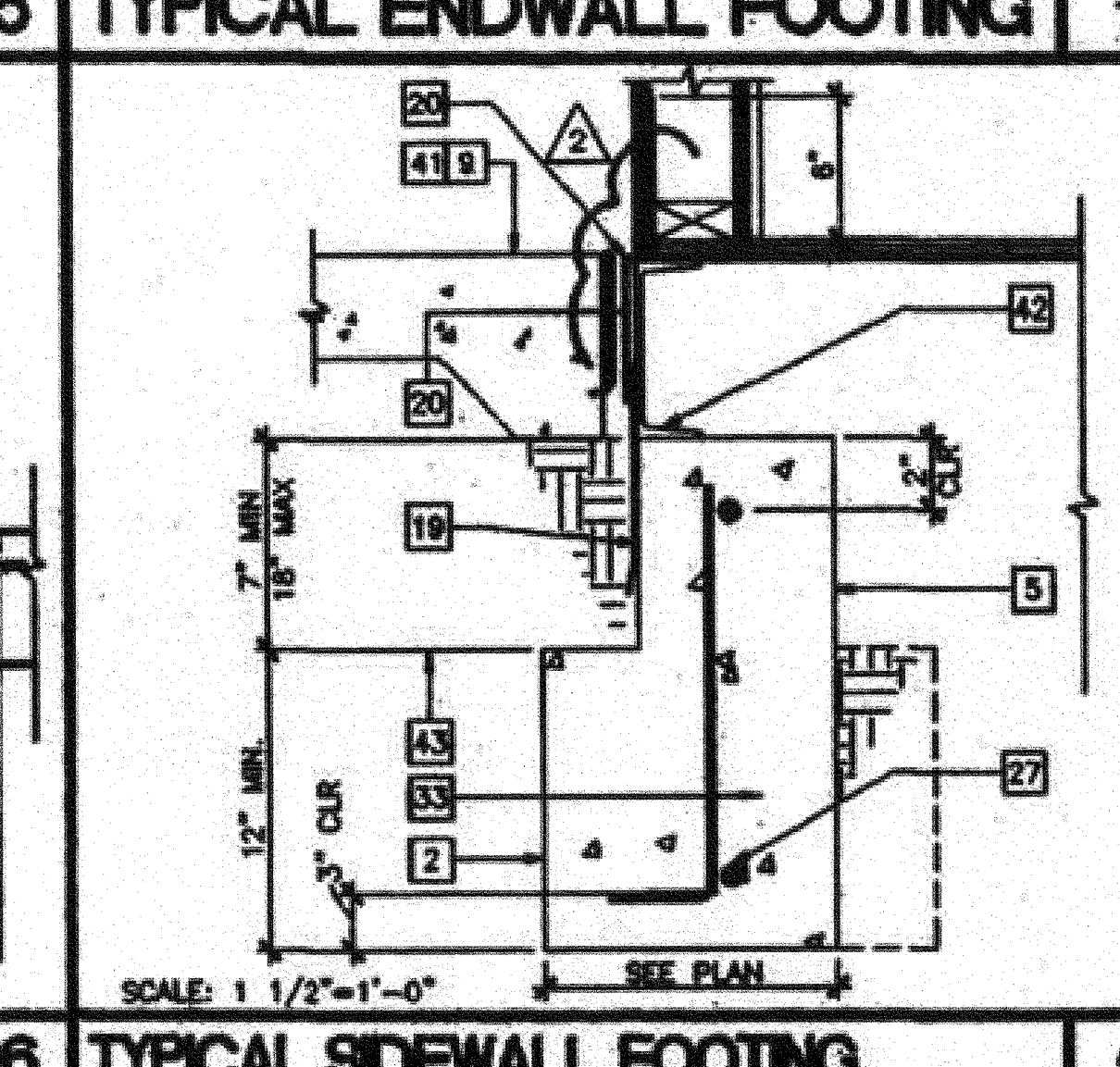
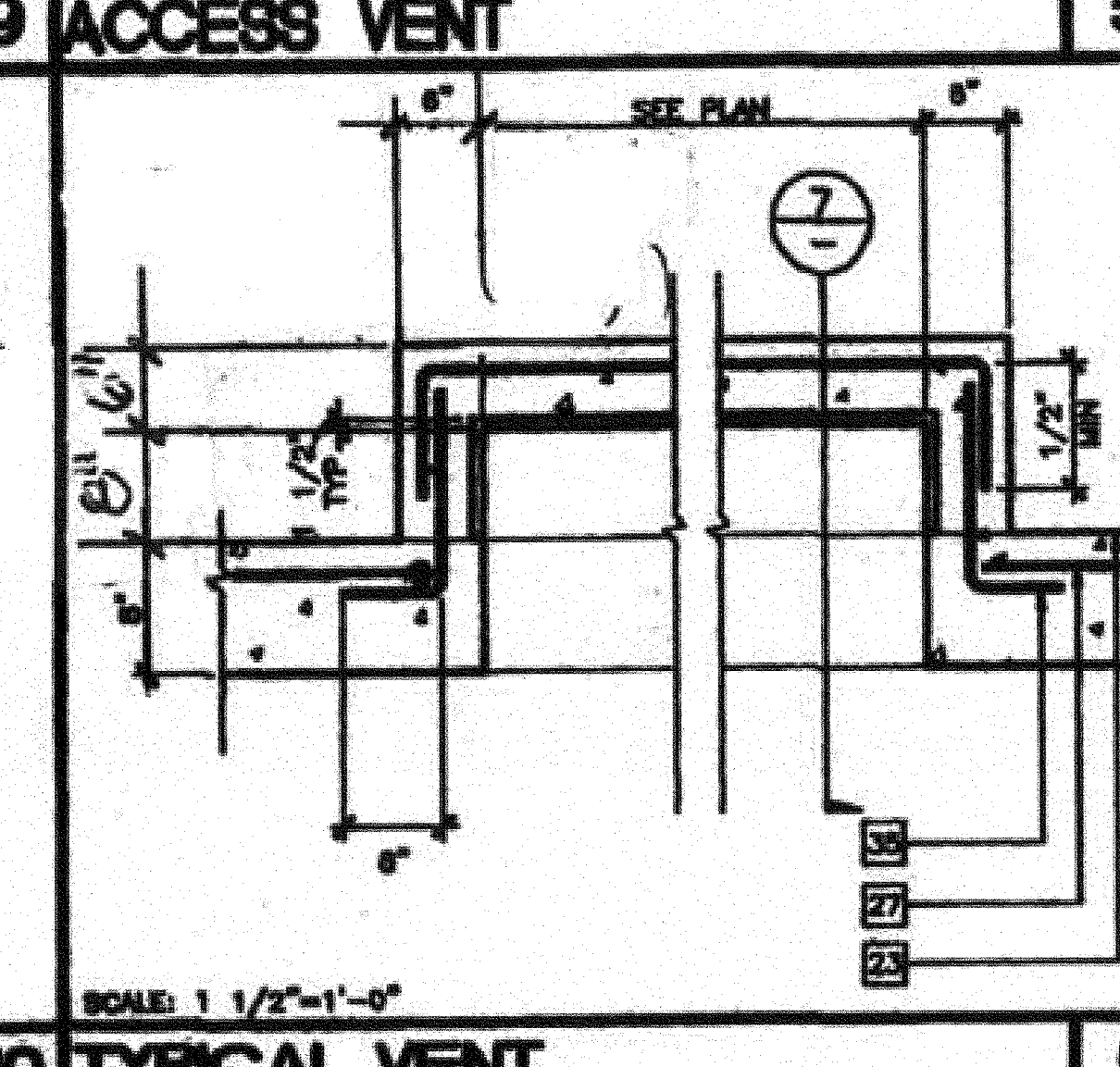
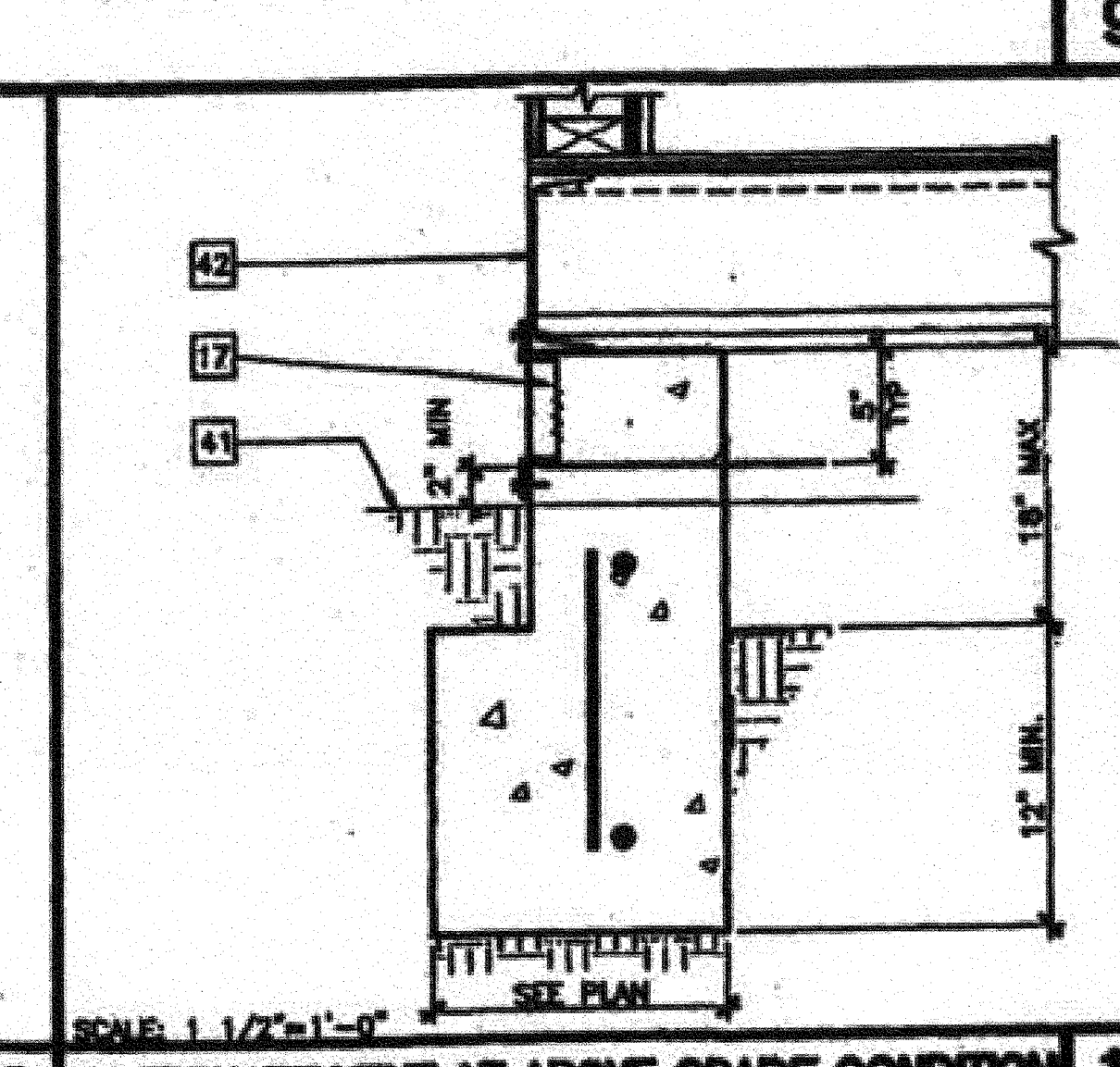
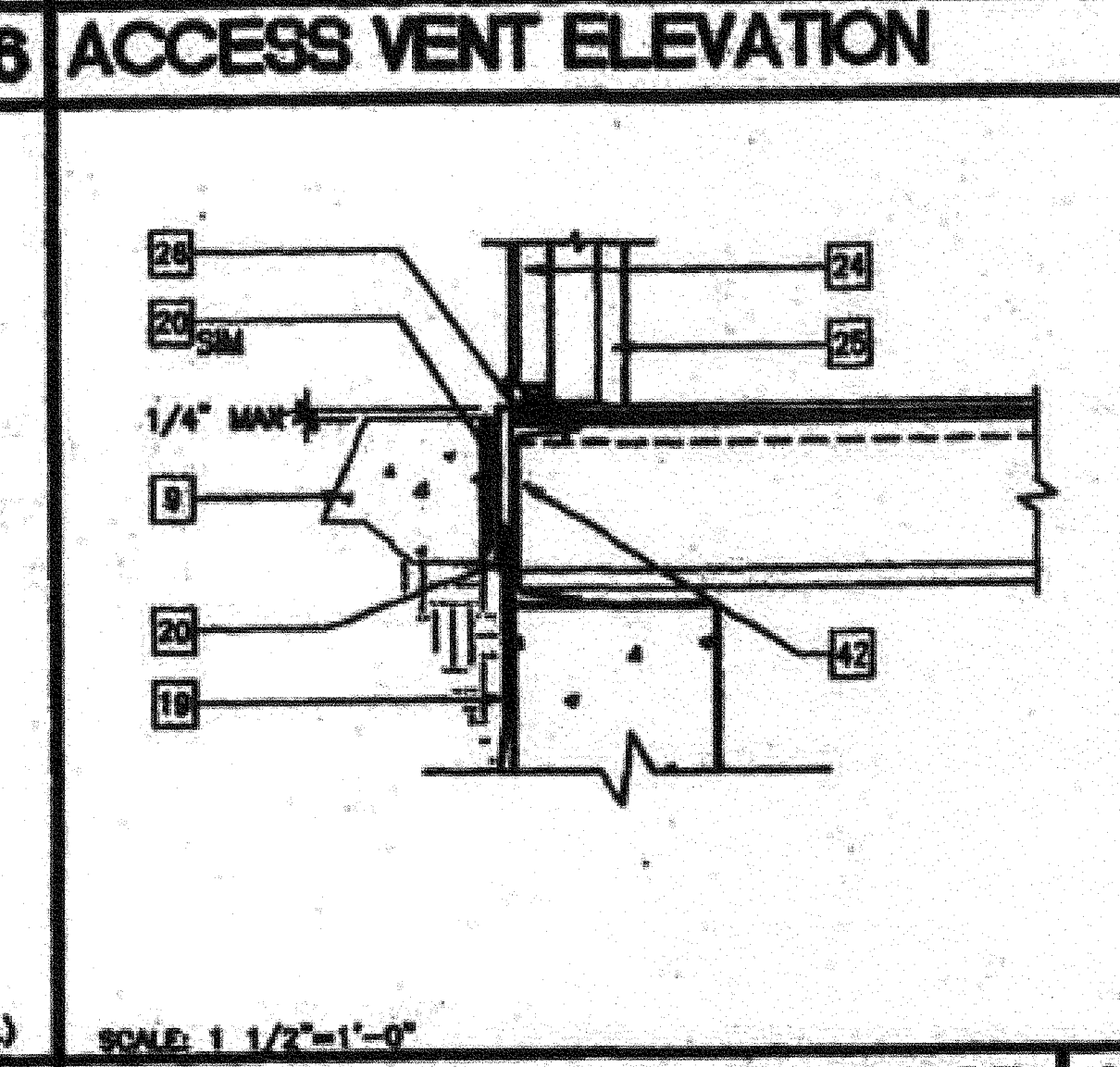
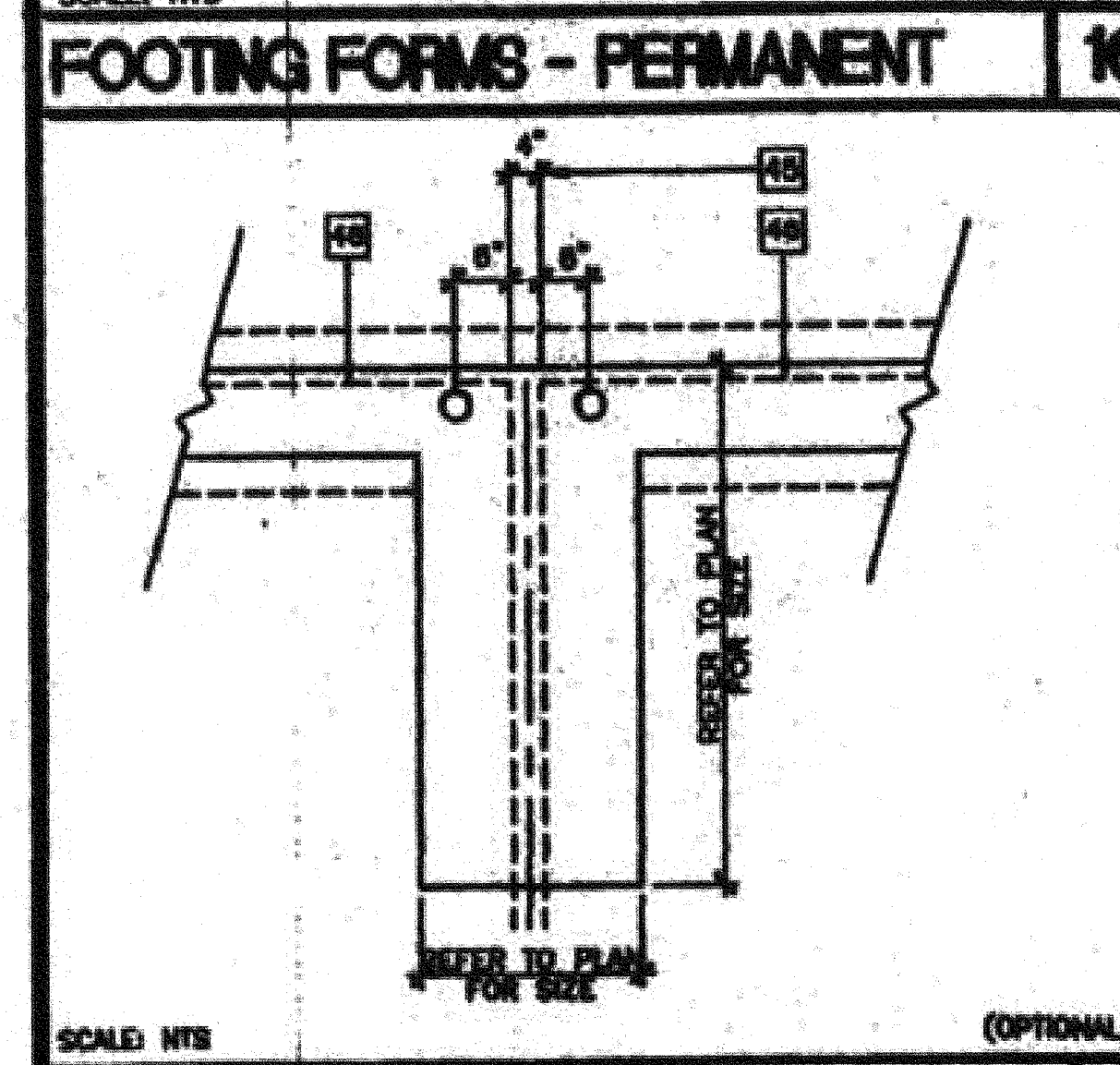






**KEY NOTES**

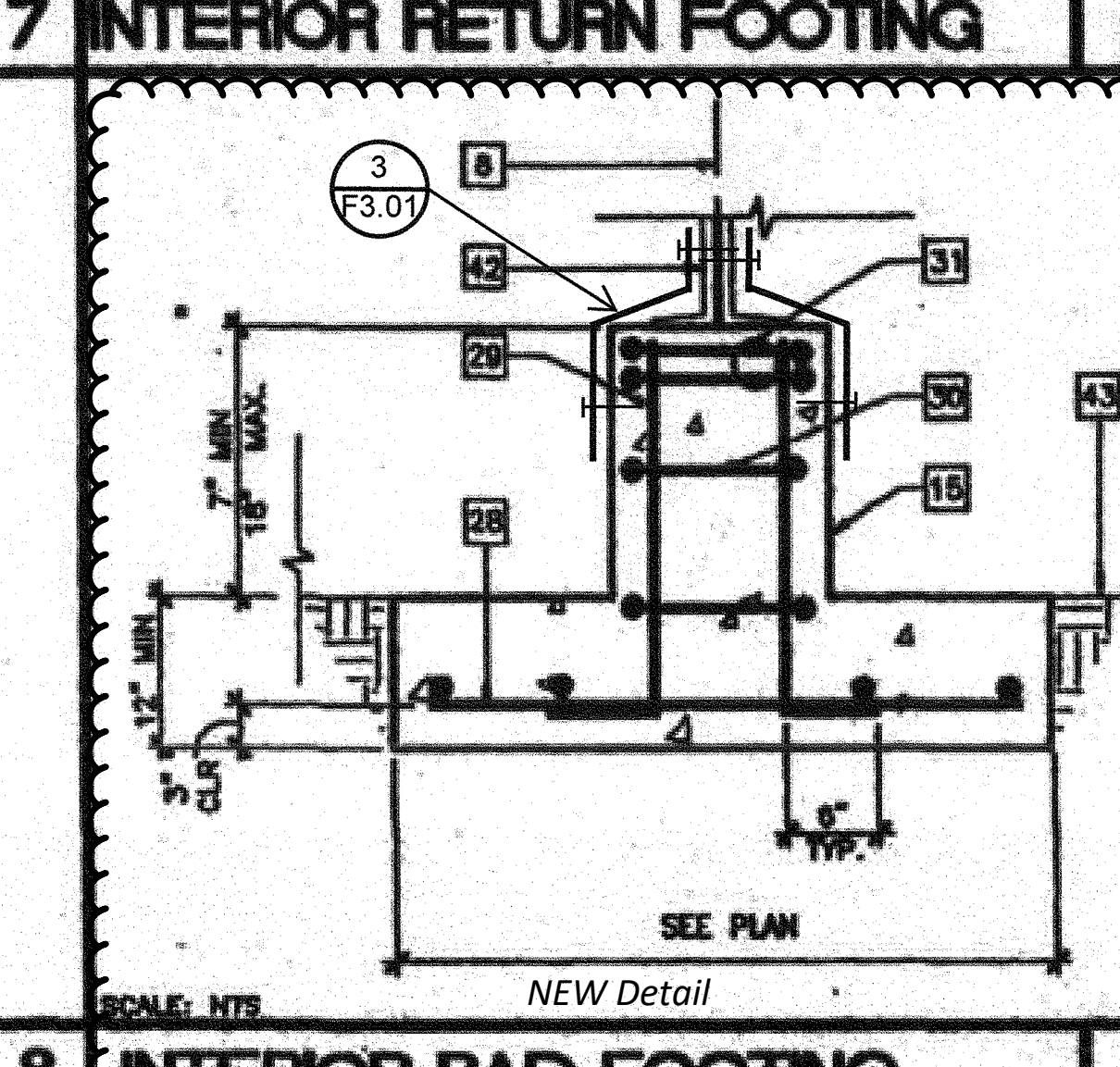
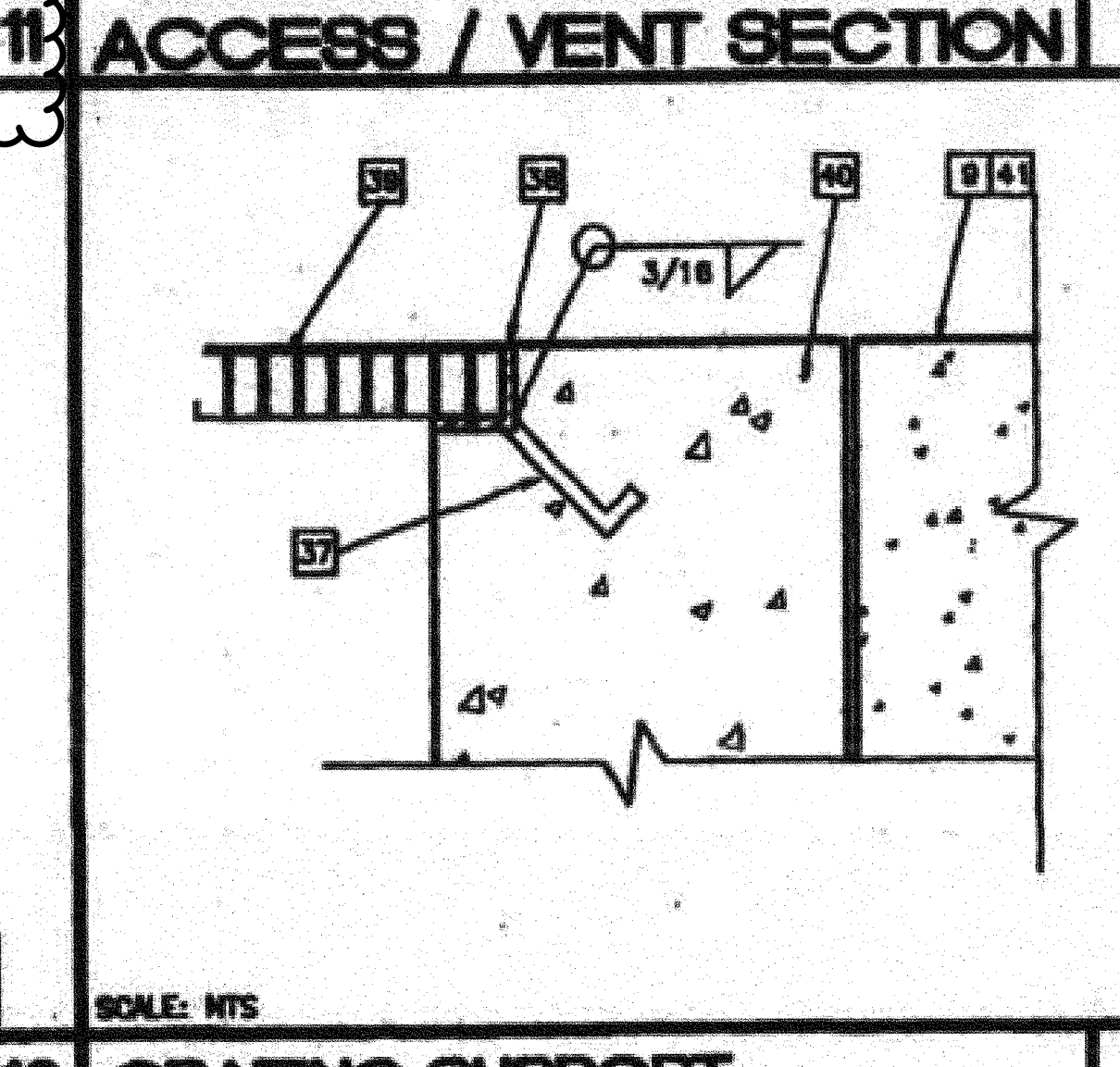
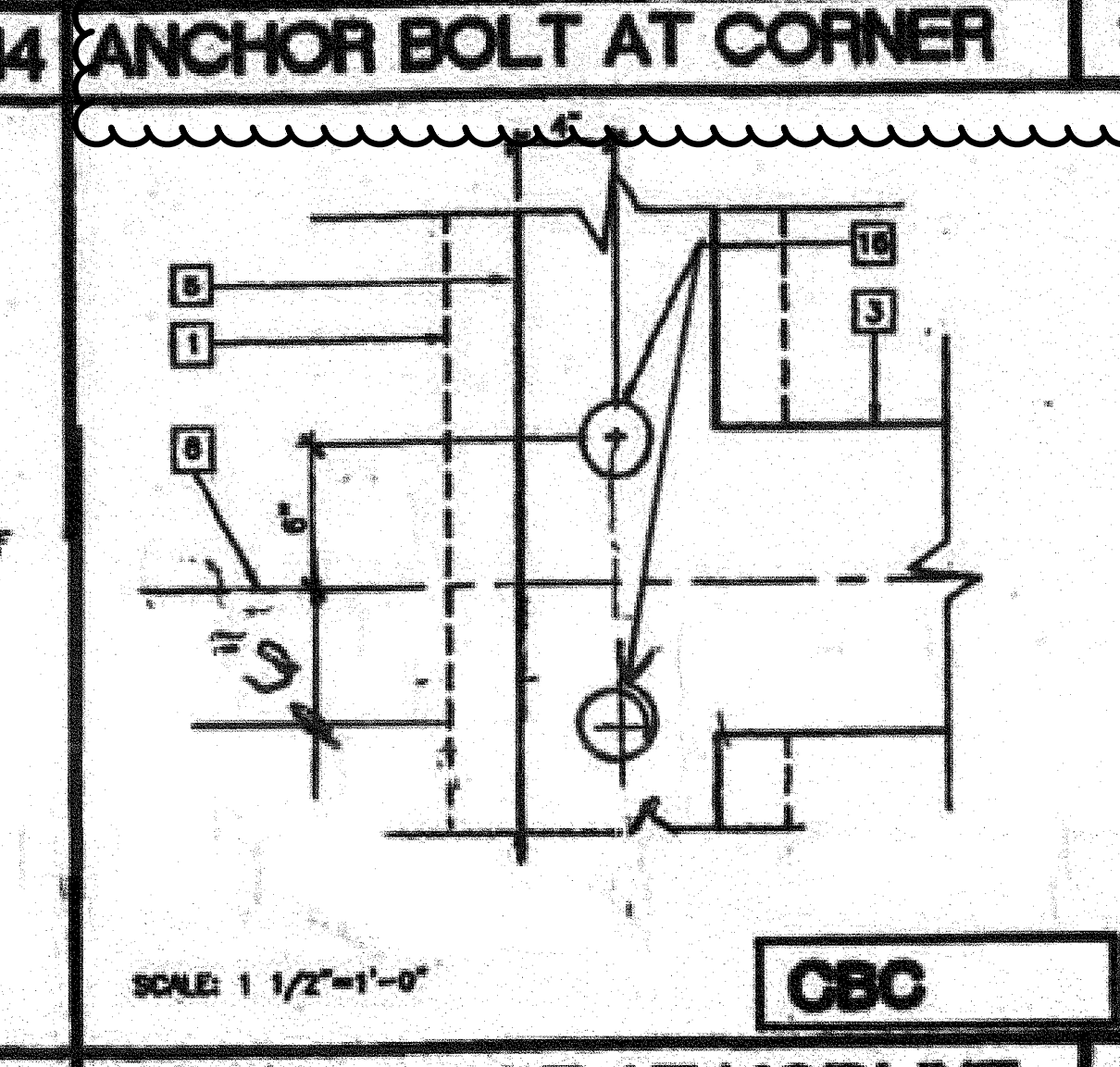
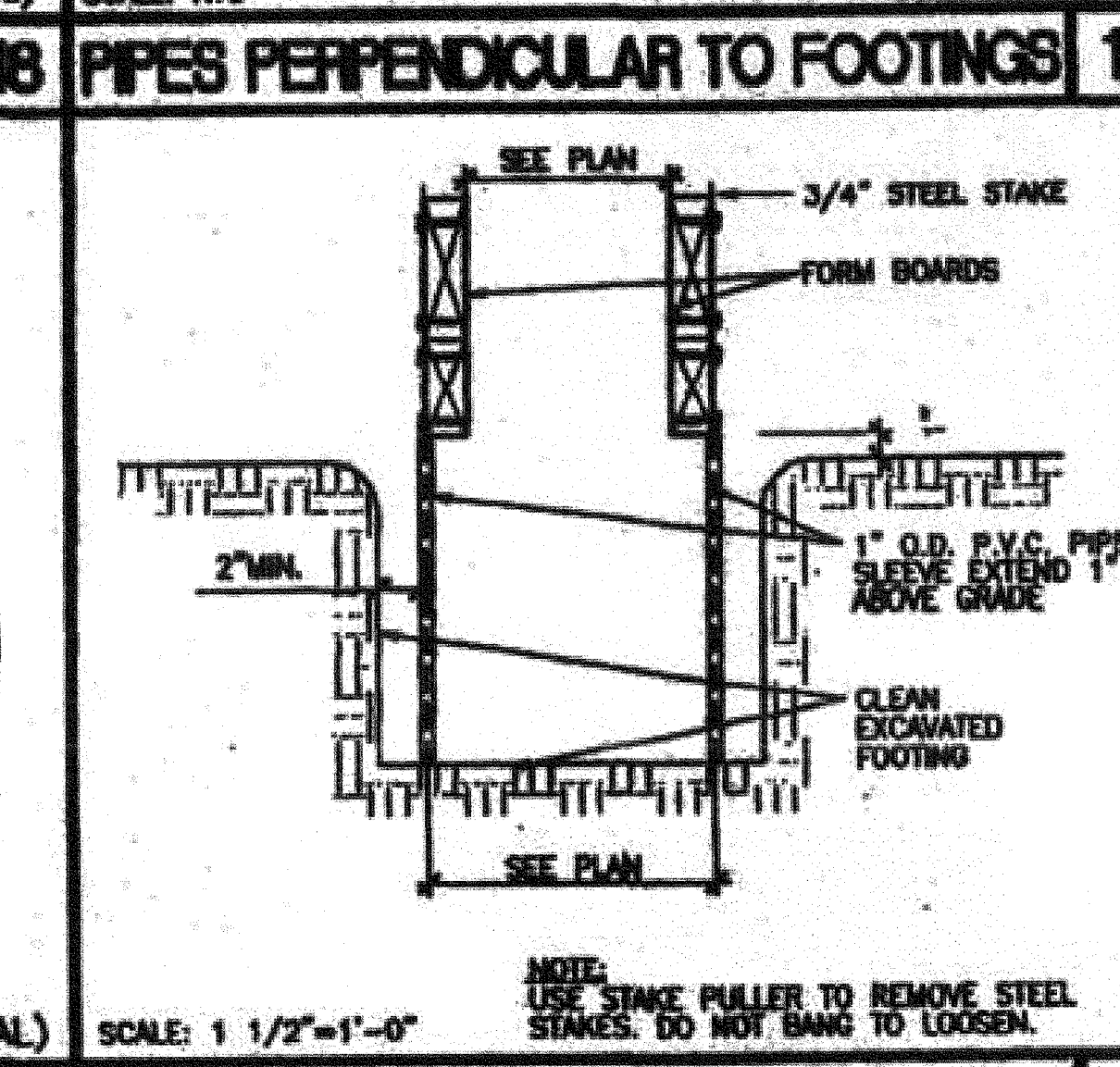
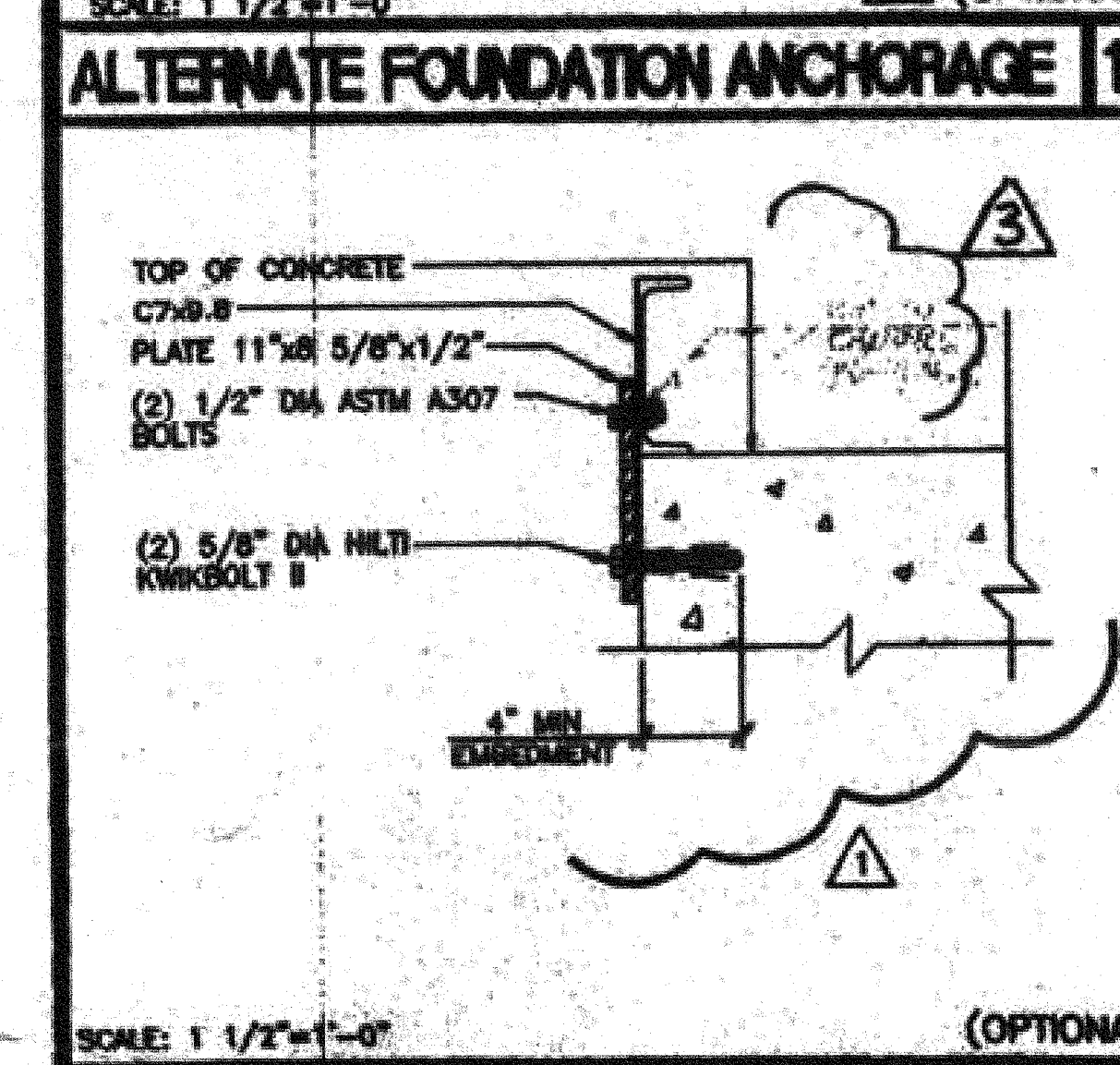
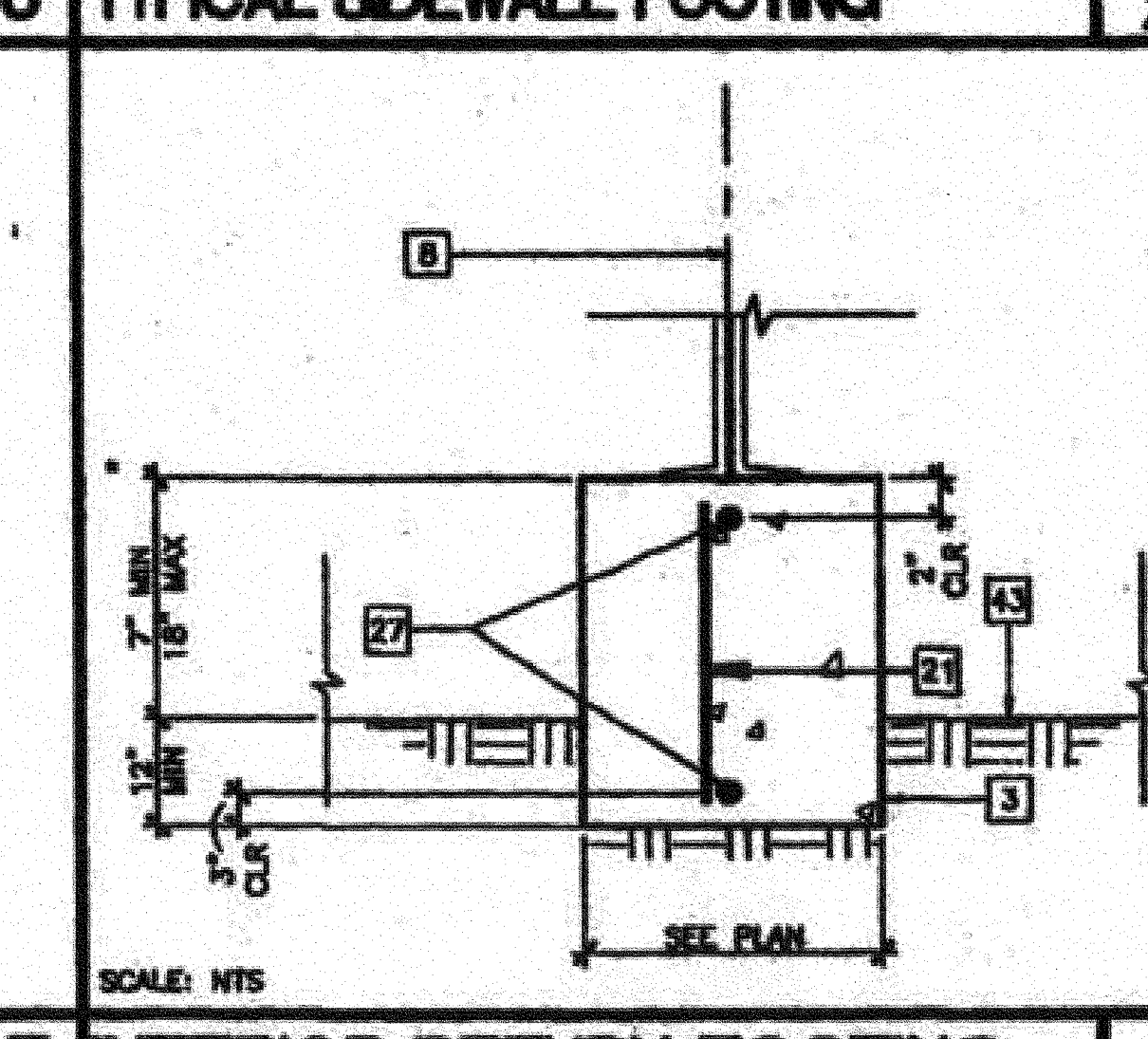
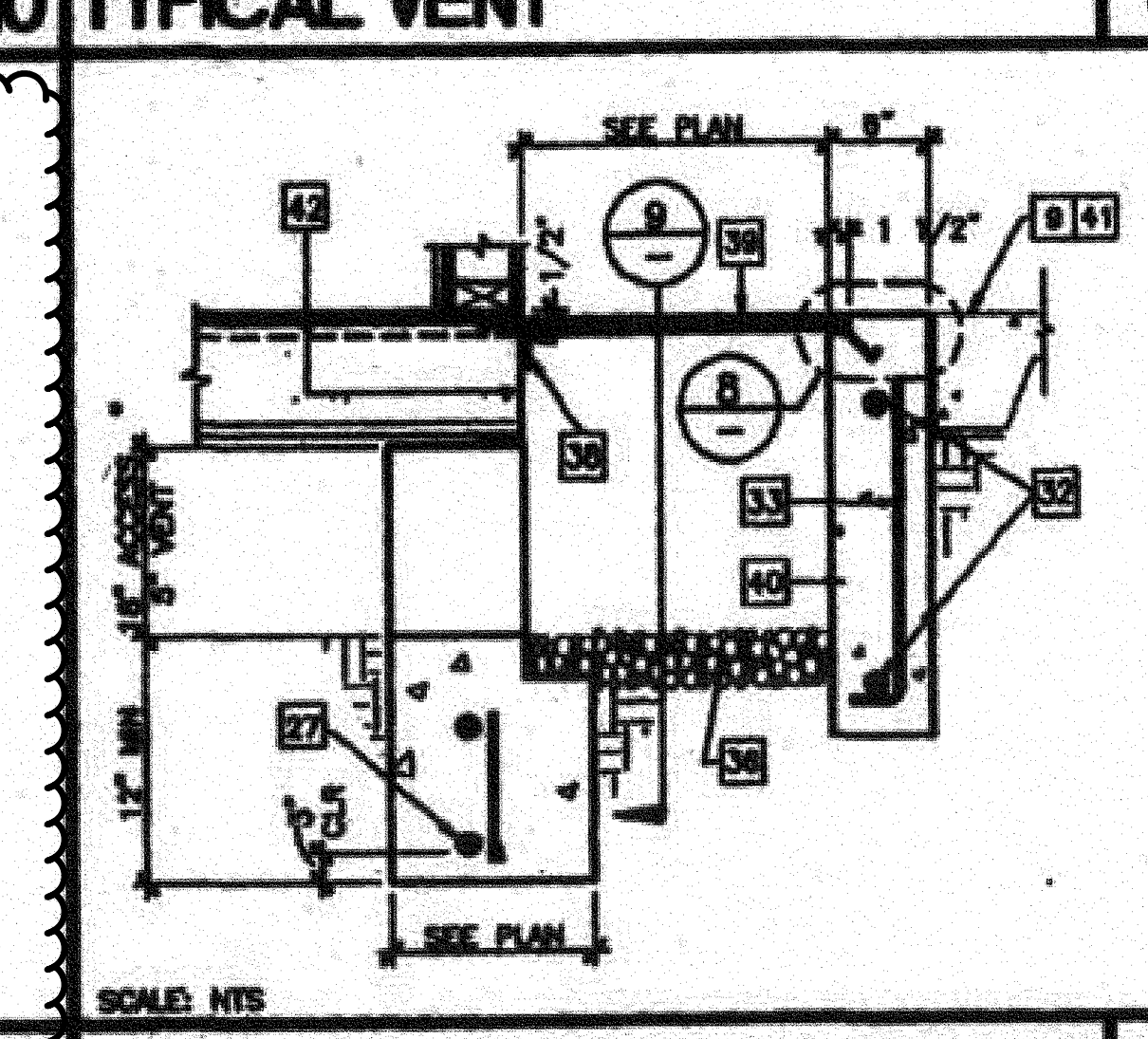
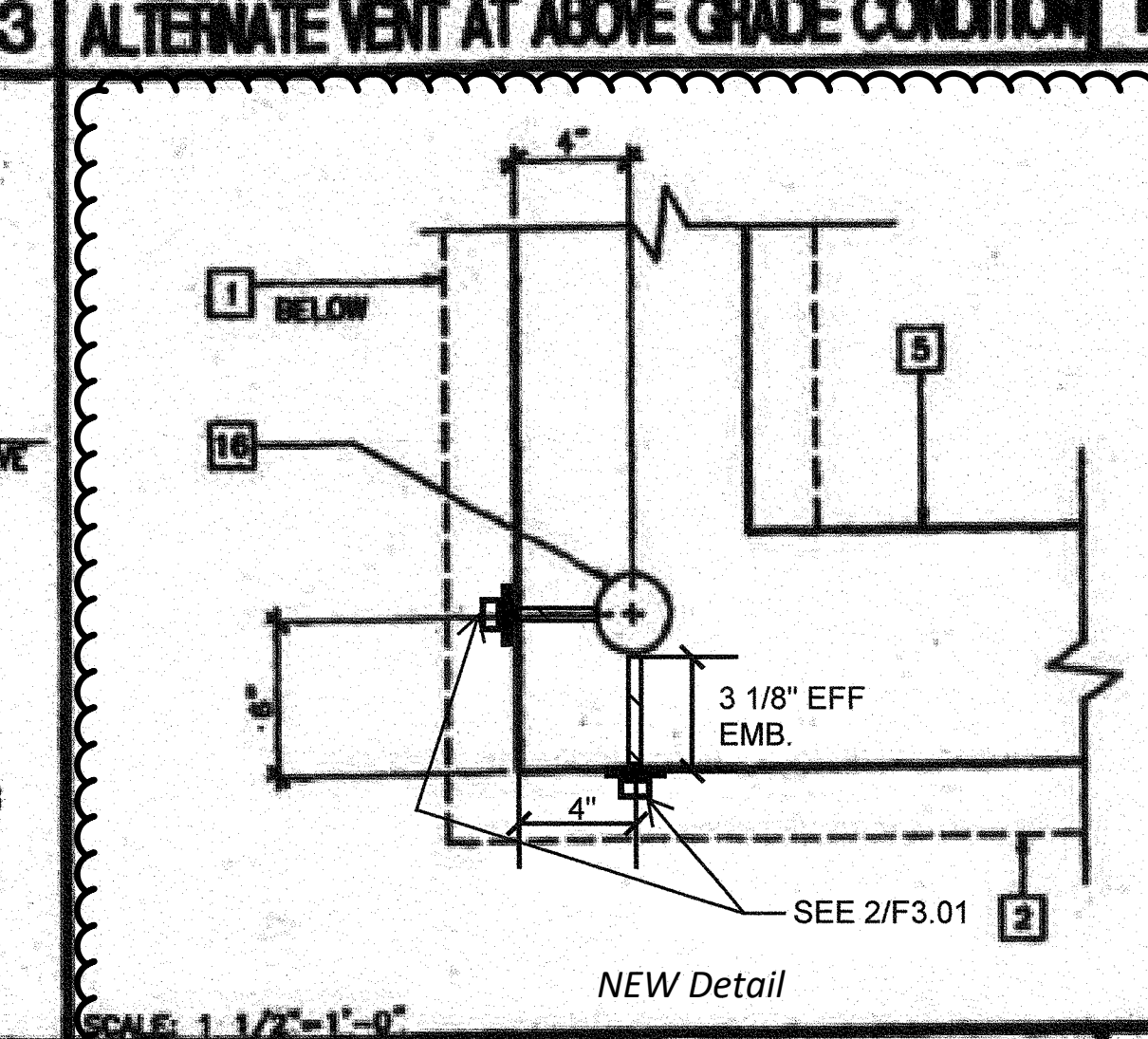
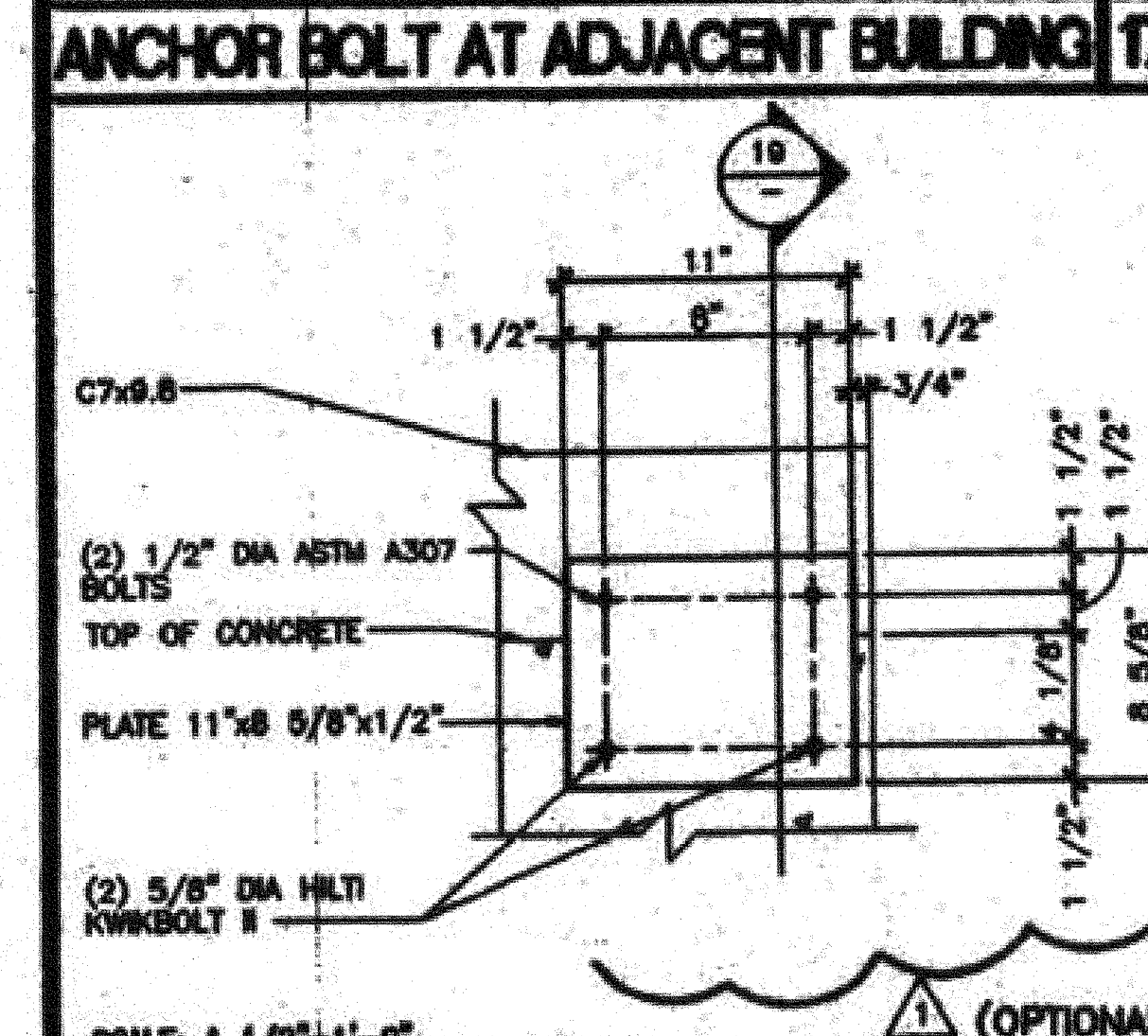
- END WALL FOOTING - SEE FOOTING SCHEDULE
- SIDE WALL FOOTING - SEE FOOTING SCHEDULE
- MODLINE RETURN FOOTING - SEE FOOTING SCHEDULE
- SLEEVE DIAMETER 2" LARGER THAN PIPE DIAMETER
- STEM WALL
- FOOTING, FOR PIPES IN THIS AREA LOWER FOOTING SO PIPES PASS THROUGH STEM WALL
- PIPE THROUGH STEM WALL
- MODLINE
- CONCRETE FLATWORK (BY DISTRICT)
- STARTER WALL AFTER SET. CLEAN TO REMOVE LATANCE AND SCUM
- CUT BACK SPALL
- CONTINUOUS CLEAN-OUT. STAKES NOT PERMITTED WITHIN FOOTING AREA
- MINIMUM FORMWORK (UNLESS FULLY FORMED)
- 2x PLANKING
- CONCRETE INTERIOR PAD FOOTING - SEE FOUNDATION PLAN FOR SIZES
- 3" DIAx5' DEEP CANOUT IN FOUNDATION (BY CONCRETE SUBCONTRACTOR)
- OPTION 1: 12 GA GALVANIZED EXPANDED DIAMOND MESH. EMBED 1 1/2" INTO WET CONCRETE AT 2 SIDES AND BOTTOM
- OPTION 2: 3/16"x1 1/2"x1 1/2" GALVANIZED ANGLE FRAME WITH 12 GA GALVANIZED EXPANDED DIAMOND MESH WELDED TO END OF INTERIOR ANGLE LEG. ANCHOR WITH 3 FASTENERS AT BOTTOM INTO CONCRETE AND 3 FASTENERS AT TOP INTO FLOOR CHANNEL.
- ANCHOR PLATE - 3/8"
- COUNTER FLASHING BY MODTECH
- GALVANIZED FLASHING, BY MODTECH
- NOT USED
- 3/4" ANCHOR BOLT A307 WITH 5" EMBEDMENT OR 3/4" DIA THREADED ROD A36 WITH 5" EMBEDMENT
- LINE OF BUILDING
- DOOR
- DOOR FRAME
- ALUMINUM THRESHOLD
- #5 TOP AND BOTTOM CONTINUOUS
- (4) #5'S EACH WAY AT BOTTOM
- 4 - #5 X L VERTS
- #4 SQUARE TIES AT 8" OC
- #4 SQUARE TIES; 2 AT TOP OF FOOTING
- #4 CONTINUOUS
- #3 VERTICAL AT 24" OC
- LAP 4"
- STANDARD 90° HOOK TYPICAL
- DRYWELL 3" DEEP WITH 3/8" PEA GRAVEL (ONLY AT ACCESS)
- 3/8" DIA x3" ANCHOR BOLT WELDED TO ANCHOR FRAME
- 1 1/4"x1"x1/4" ANGLE FRAME
- HORIZONTAL GRATE: GRATE OPENING TO BE MAXIMUM 1" EXCEPT 1/2" IN PATH OF TRAVEL (UPGRADE CHANGE ORDER REQUIRED), SEE ARCHITECTURAL SITE PLAN
- CONCRETE AIRWAY WALL
- FINISH GRADE
- STEEL FLOOR FRAME
- FINISH PAD ELEVATION - REFER TO GENERAL NOTES
- HEAT CUT TRENCH
- 4" BUILDING SEPARATION AT ADJACENT BUILDING - OPTIONAL
- BUILDING LINE



**NOTES**

- 11" MINIMUM 30" MAXIMUM FOR ALL BUILDINGS 2160 SQUARE FEET OR OVER

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DIV. OF THE STATE ARCHITECT  
A 03 11R756  
AC/FLS/SS/TP  
Date 102-2018



**NOTES**

- 11" MINIMUM 30" MAXIMUM FOR ALL BUILDINGS 2160 SQUARE FEET OR OVER

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DIV. OF THE STATE ARCHITECT  
A 03 11R756  
AC/FLS/SS/TP  
Date 102-2018

**REVISIONS**

SP	MODTECH ENGINEERING CHANGE	9/21/00
SP	MODTECH ENGINEERING CHANGE	08/28/00
SP	MODTECH ENGINEERING CHANGE	10/18/00
FW	CHANGE 24 TO 28 EMBL	5/29/01
FW	CHANGE 24 TO 28 EMBL	3/7/02

PROJECT NO. 4094 - OAK PARK UNIFIED SCHOOL DISTRICT - BROOKSIDE ELEMENTARY SCHOOL - (1)72'x40' ADMINISTRATION BLDG.

FILE PATH: 4094-F3.11.DWG

PROJECT NUMBER: 4094

OAK PARK UNIFIED SCHOOL DISTRICT

BROOKSIDE ELEMENTARY SCHOOL (1) 72' x 40' ADMINISTRATION BUILDING

**FOUNDATION DETAILS BELOW GRADE CONCRETE**

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

PROJECT NUMBER: 4094

OAK PARK UNIFIED SCHOOL DISTRICT

BROOKSIDE ELEMENTARY SCHOOL (1) 72' x 40' ADMINISTRATION BUILDING

**FOUNDATION DETAILS BELOW GRADE CONCRETE**

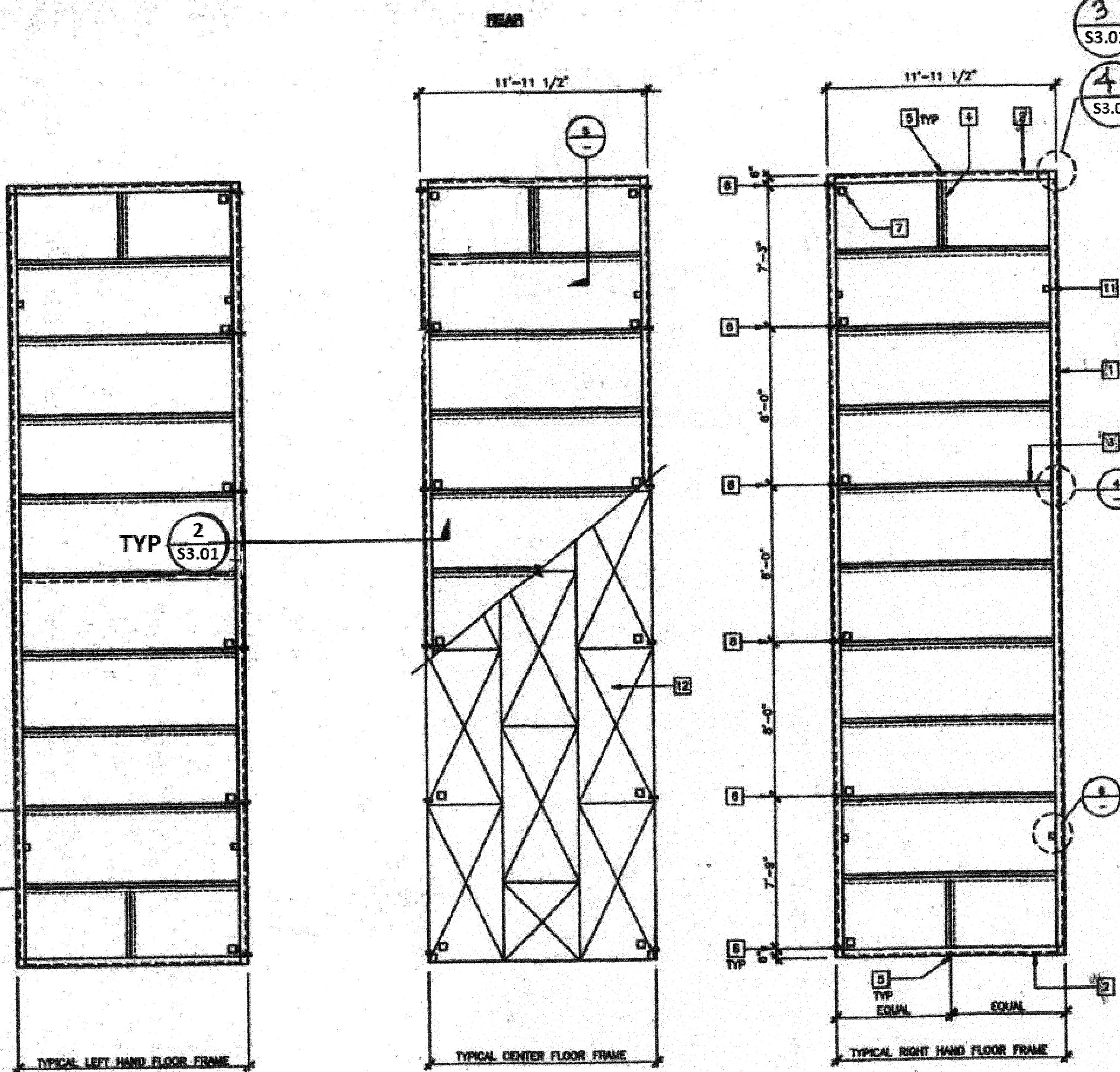
MODTECH, INC. 2001

DATE: 3/15/02

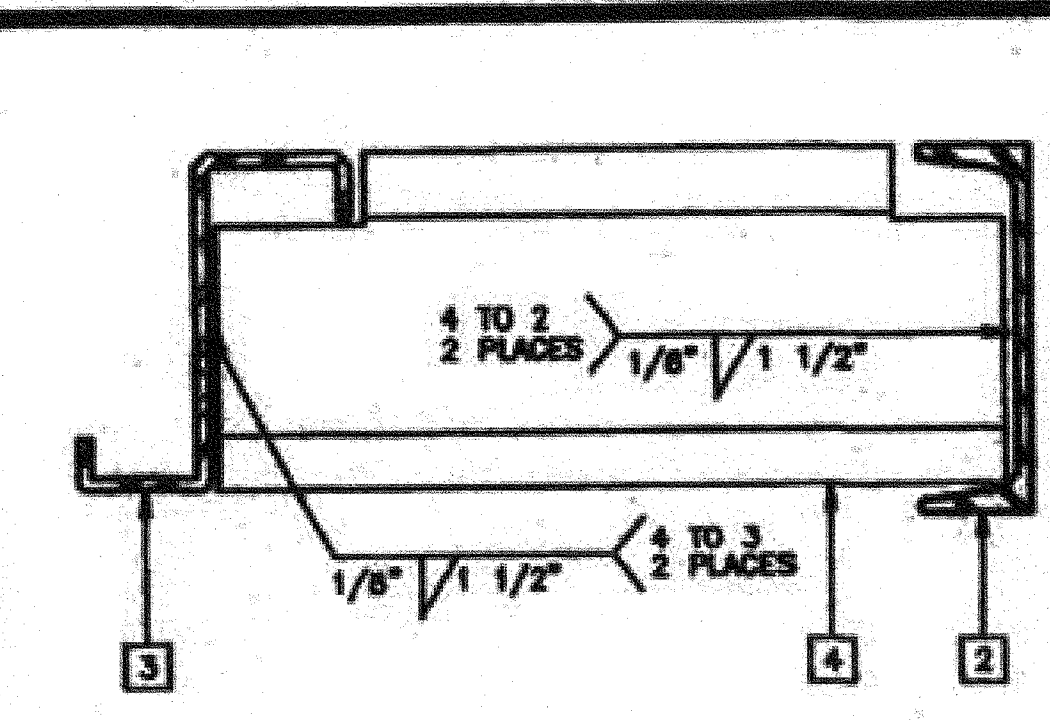
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DATE: 1/5/2018

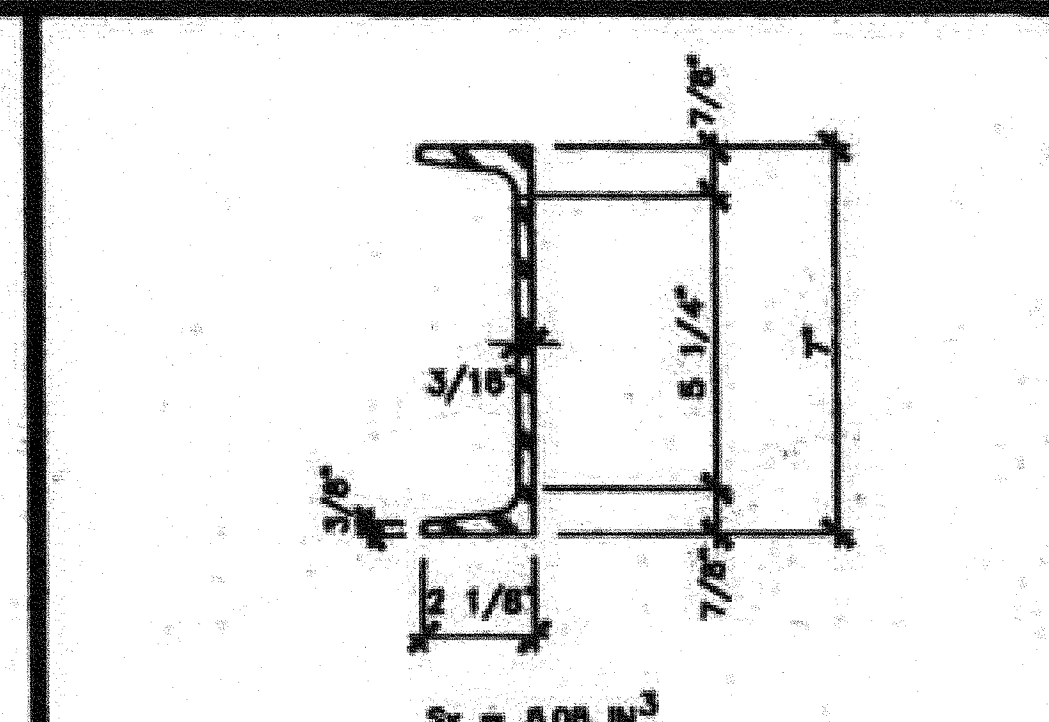
**F3.11**



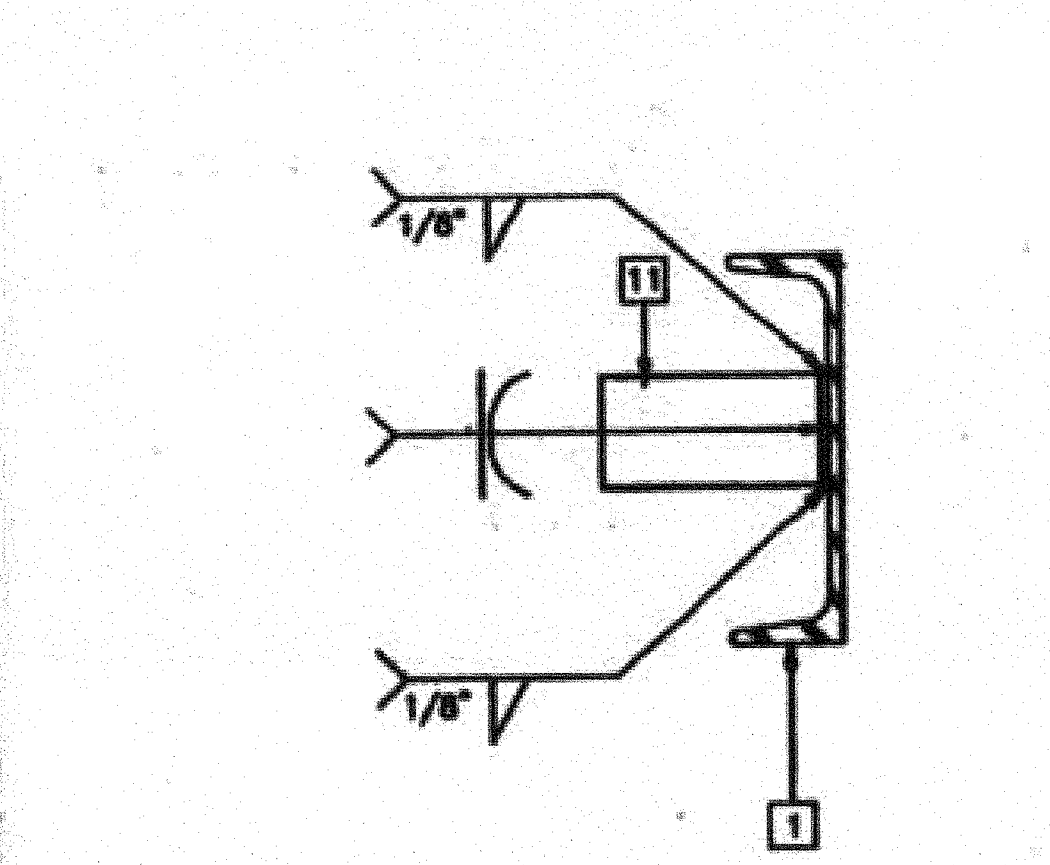
**FLOOR FRAMING PLAN** SCALE: 1/4" = 1'-0"



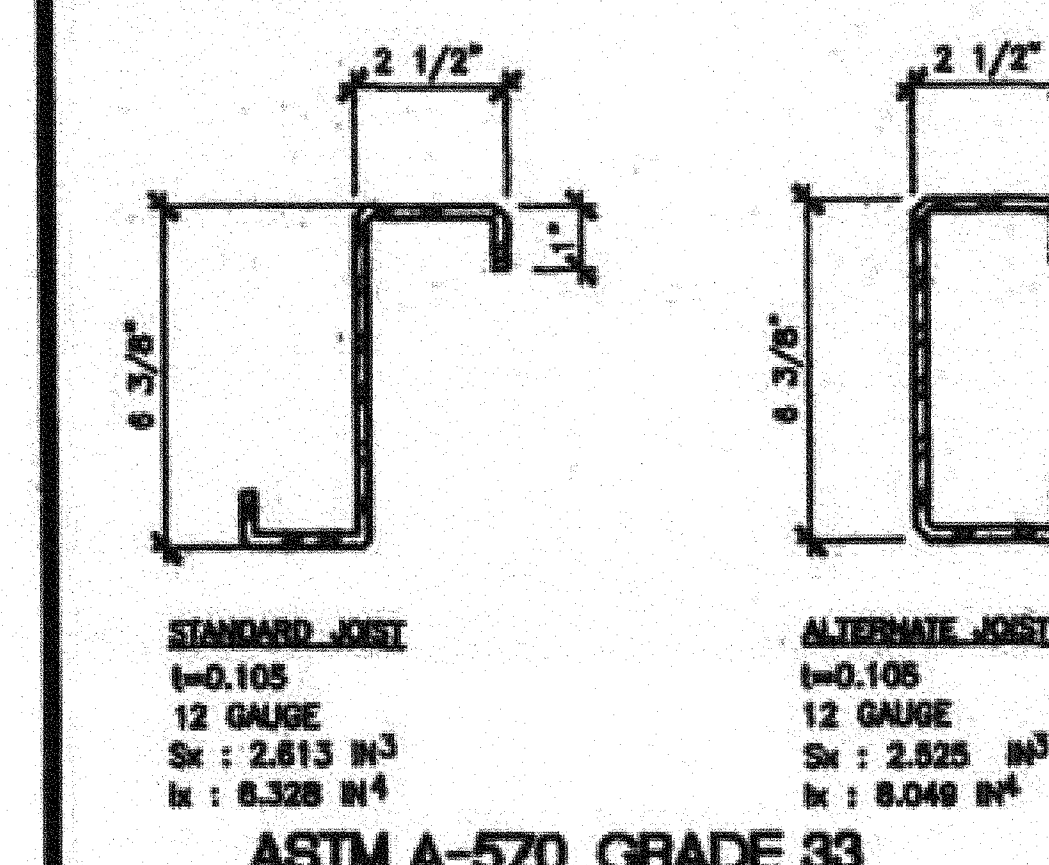
**FLOOR HEADER BLOCKING** 5 SCALE: NTS



**FLOOR BEAM/HEADER** 1 SCALE: NTS



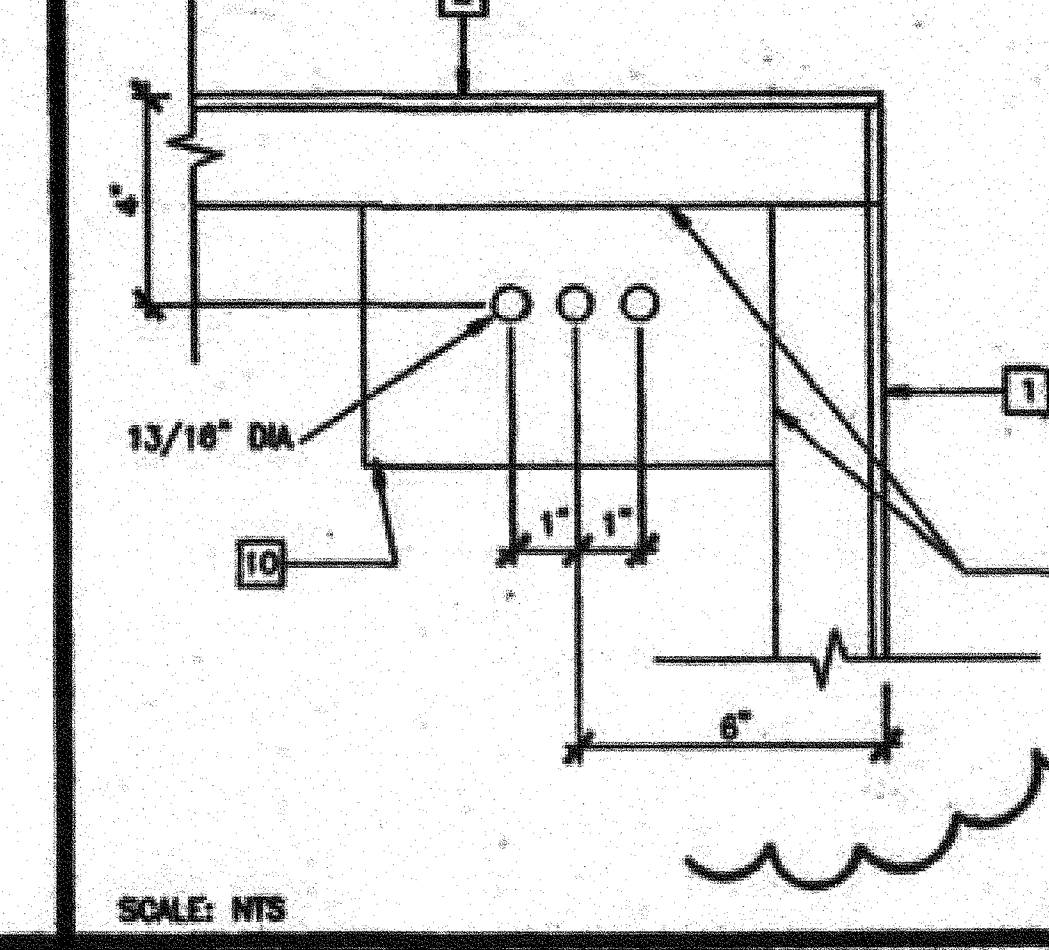
**SHIPPING HOLD DOWN** 6 SCALE: NTS



**FLOOR JOIST** 2 SCALE: NTS



**ANCHOR PLATE (CONCRETE FOUNDATION)** 3 SCALE: NTS



**FLOOR JOIST TO FLOOR BEAM** 4 SCALE: NTS

- KEY NOTES**
- 1 FLOOR BEAM - COPE TO MATE WITH HEADER - 1/31.01
  - 2 FLOOR HEADER - 1/31.01
  - 3 FLOOR JOIST - 2/31.01
  - 4 BLOCKING AT MIDSPAN OF FLOOR HEADER - 5/31.01
  - 5 11/16\"/>

**FLOOR JOIST TABLE**

LIVE LOAD PSF	JOIST SPACING STANDARD	OPTIONAL UP GRADE TO STIFFEN FLOOR		
		12"	16"	24"
50	48"	12"	16"	24"
100	48"	12"	16"	N/A
150	48"	12"	N/A	N/A

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
A 03 118756  
AC FLS SS 10  
Date 10-2-2018

**REVISIONS**

NO.	DESCRIPTION	DATE
1	MODTECH ENGINEERING CHANGE	6/21/00
2	MODTECH ENGINEERING CHANGE	09/28/00
3	REVISED FLOOR JOIST TABLE	12/12/00

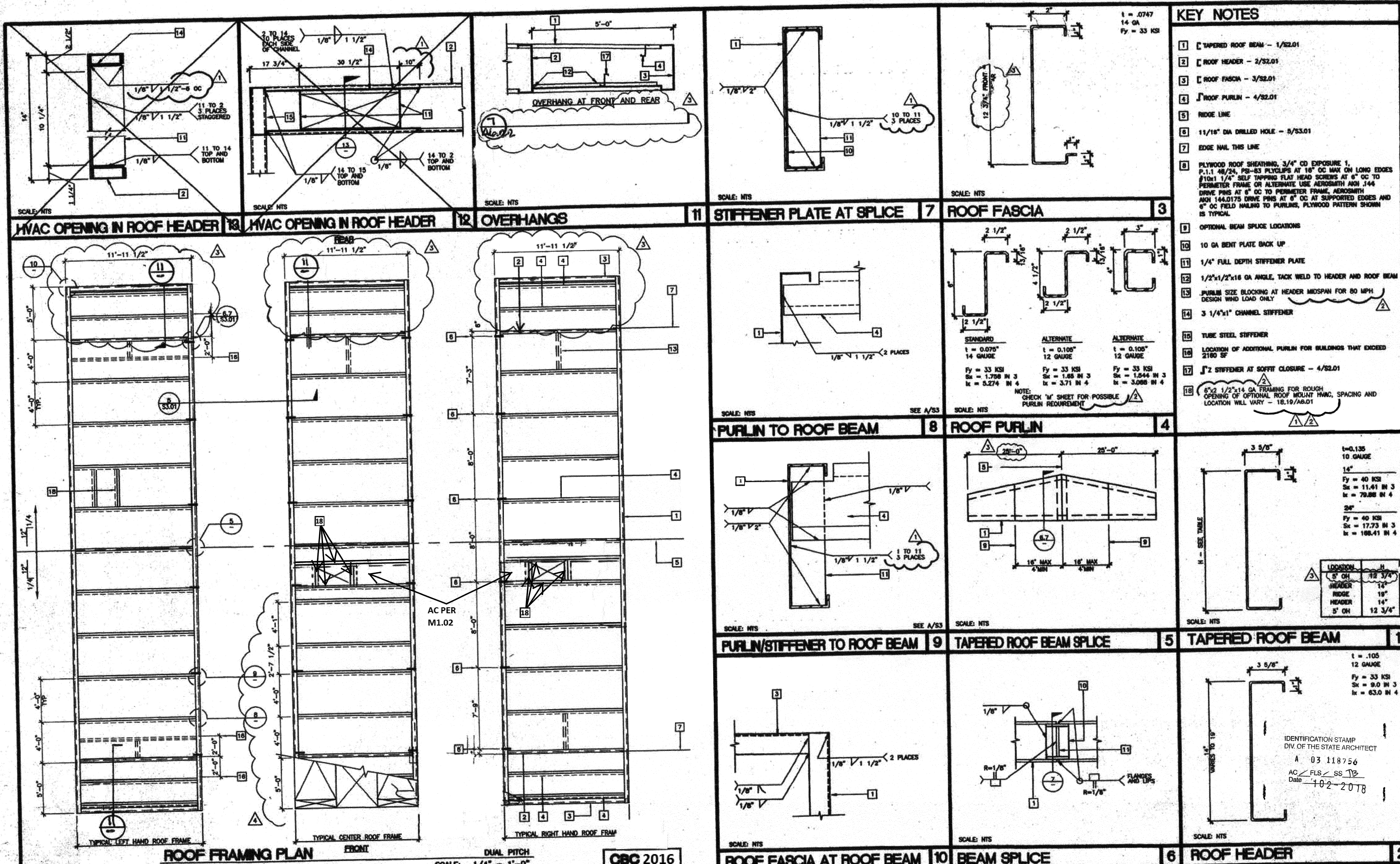
Professional Engineer's Seal: **PC-07 101268**  
 Structural Engineer's Seal: **PC-07 101268**  
 ARCHITECT'S SEAL: **PC-07 101268**

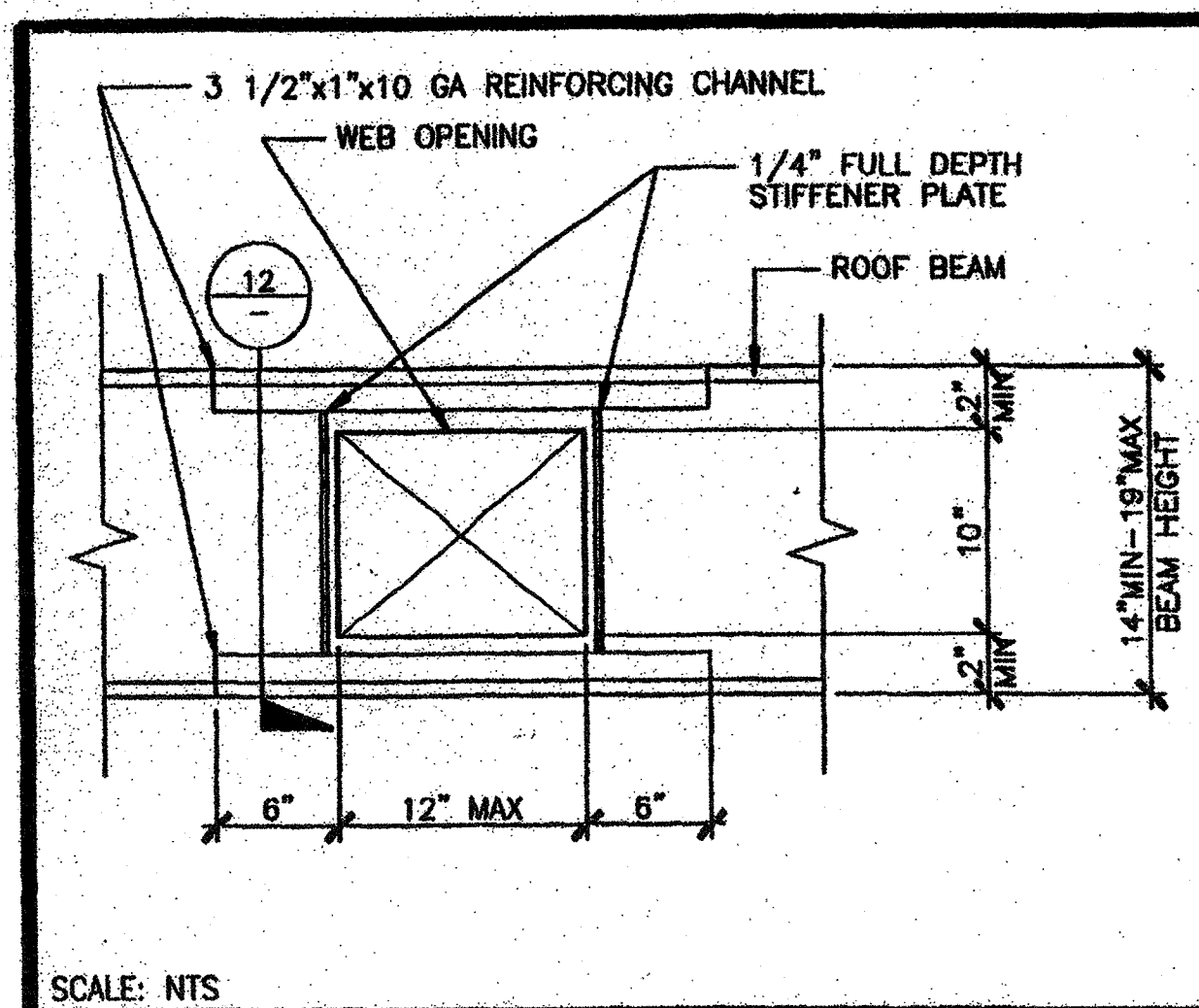
**MODTECH INC.**  
 2830 BARRETT AVENUE  
 PERRIS, CALIF. 92572  
 PH (909) 943-4014  
 FAX (909) 940-0427

PROJECT NUMBER: 4094  
 OAK PARK UNIFIED SCHOOL DISTRICT  
 BROOKSIDE ELEMENTARY SCHOOL (1) 72' x 40' ADMINISTRATION BUILDING  
**FLOOR FRAMING PLAN** WOOD FLOOR

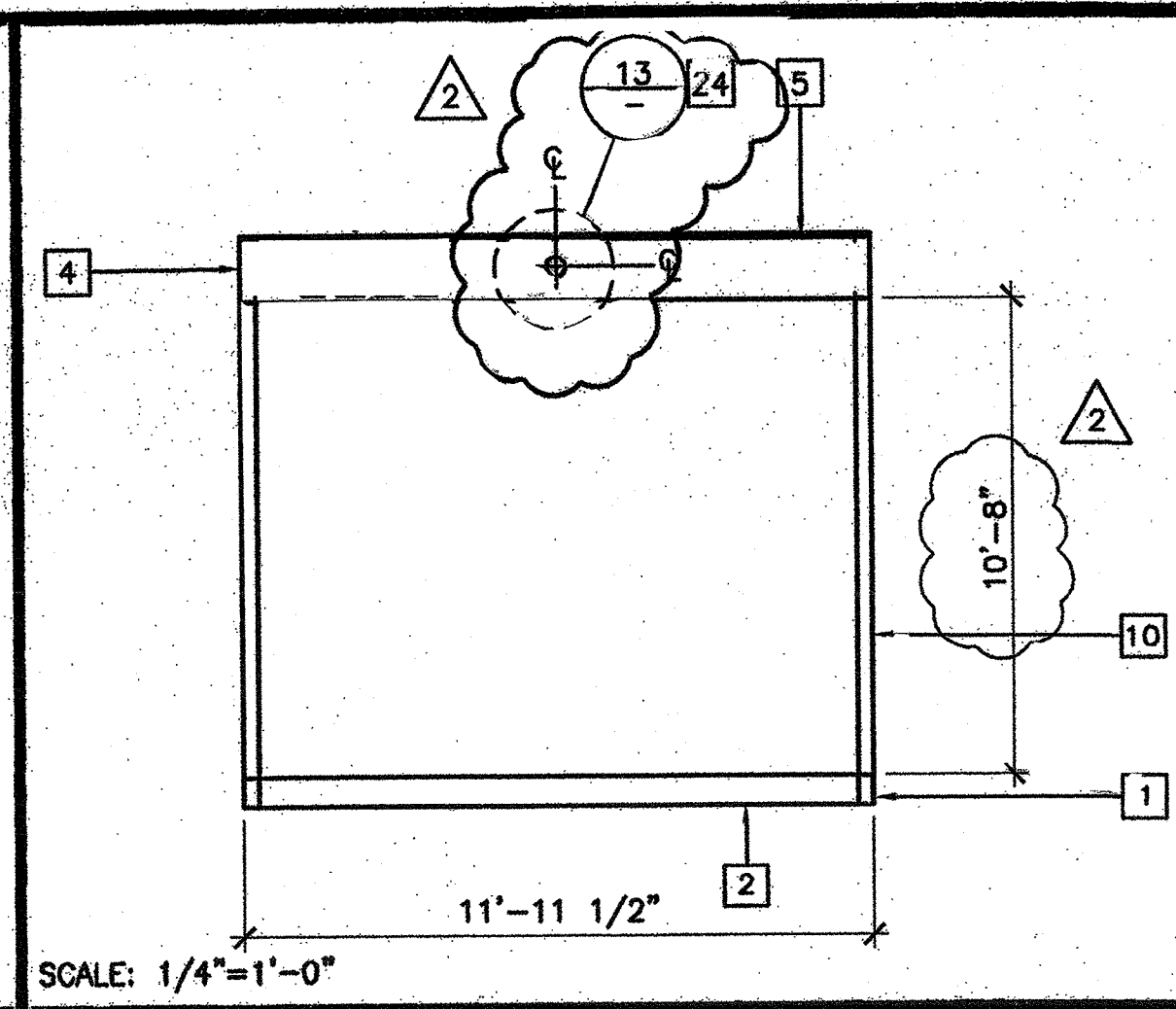
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 DRAWN BY: CM  
 DATE: 3/15/02  
 CHECKED BY: SW  
 DATE: 1/5/2018  
**S1.01**

PROJECT NO. 4094-OAK PARK UNIFIED SCHOOL DISTRICT - BROOKSIDE ELEMENTARY SCHOOL - (1)72'x40' ADMINISTRATION BLDG. FILE PATH: 4094-S1.01.DWG

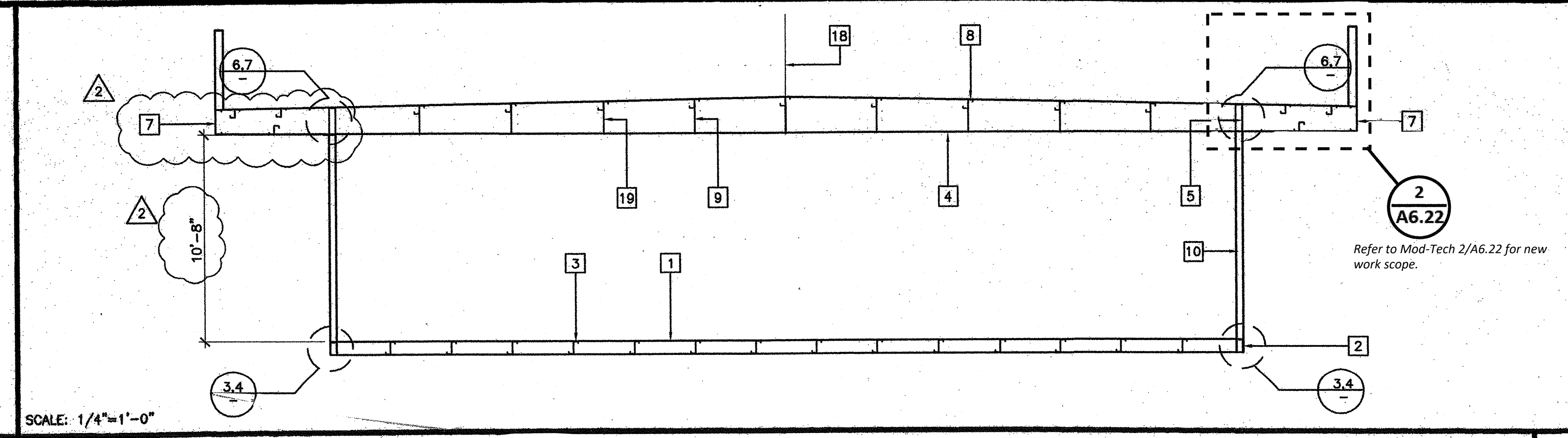




SCALE: NTS  
OPTIONAL BEAM PENETRATION 11

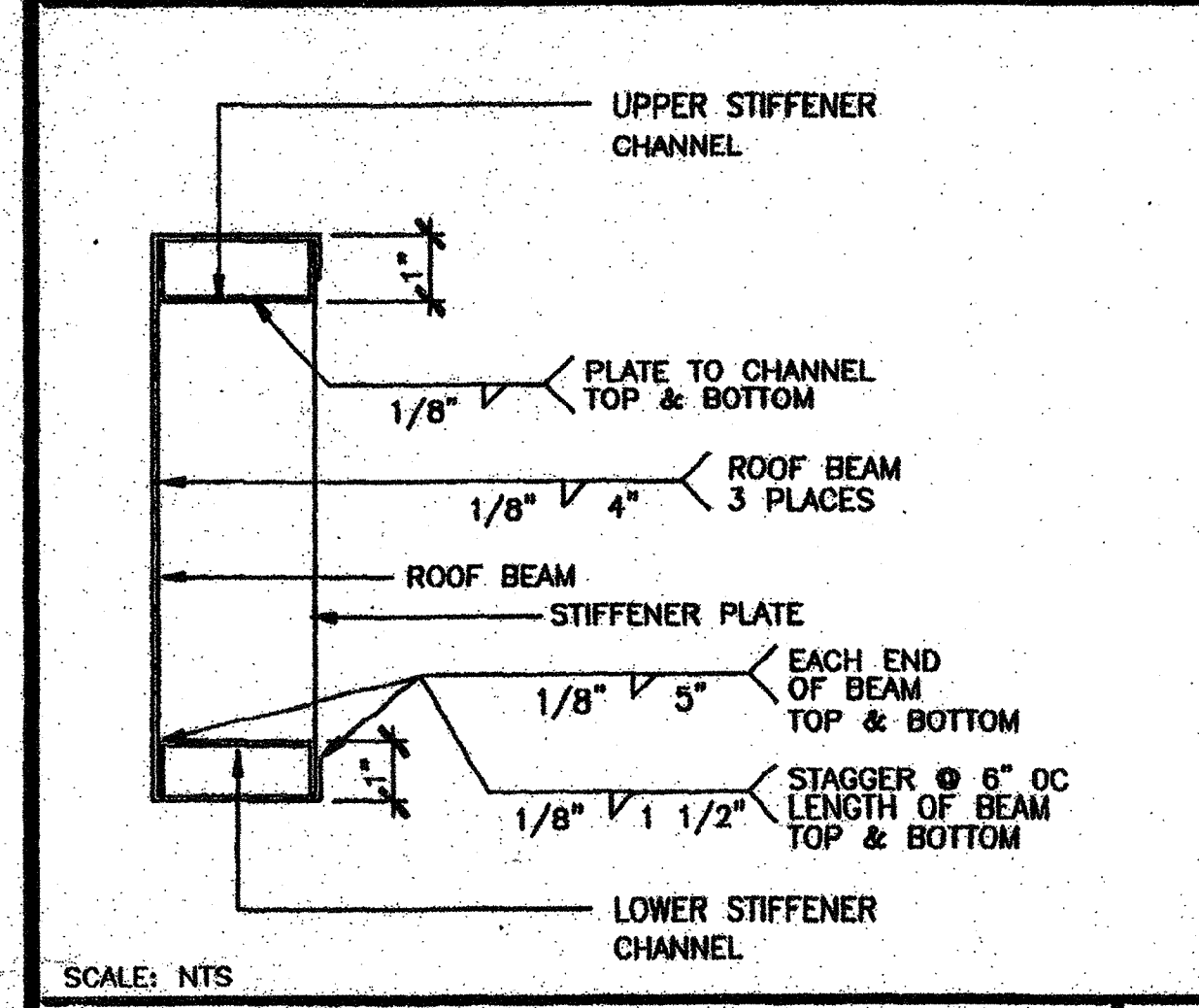


SCALE: 1/4"=1'-0"  
SECTION AT END WALL 12

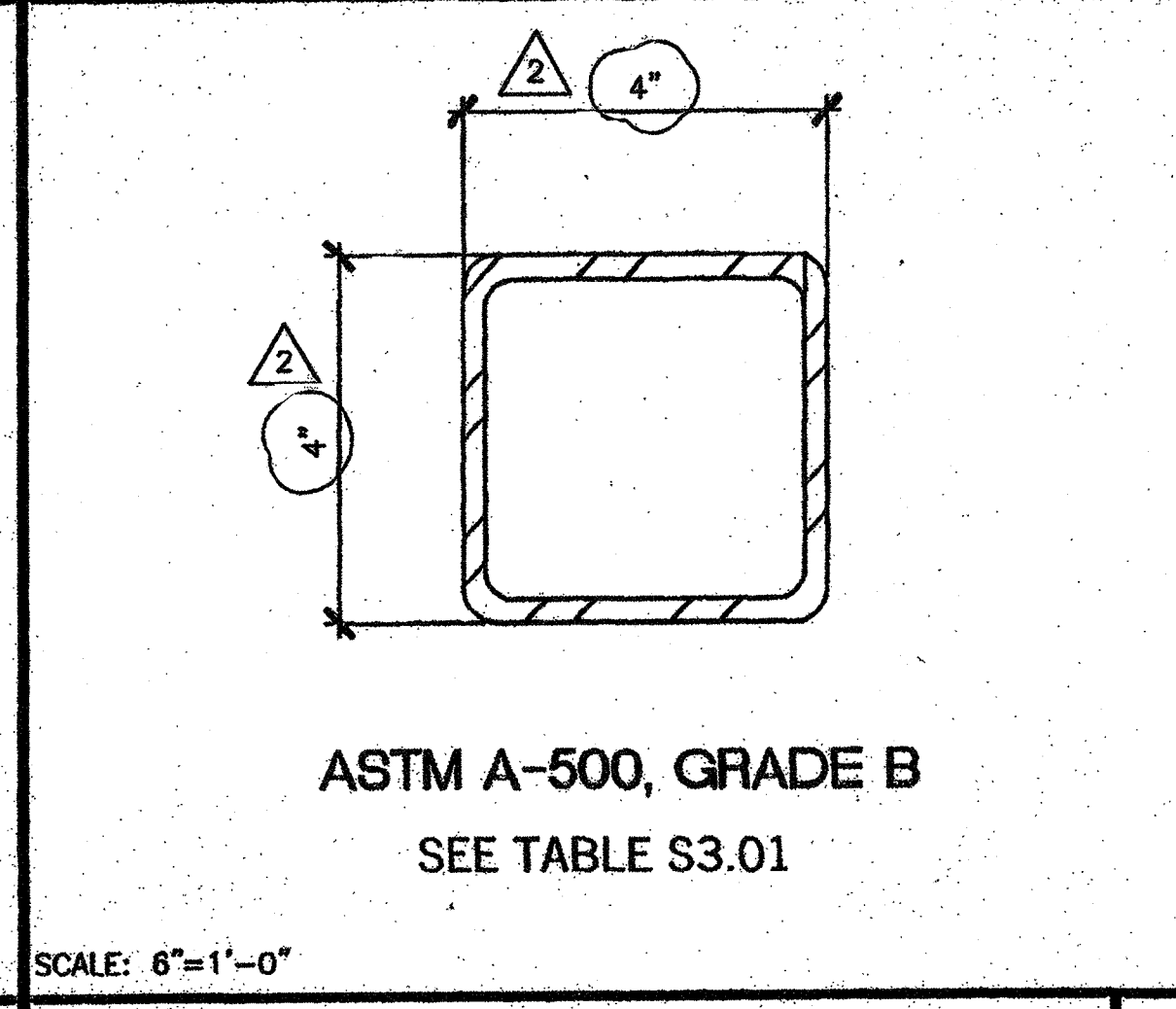


SCALE: 1/4"=1'-0"  
SECTION AT SIDE WALL 13

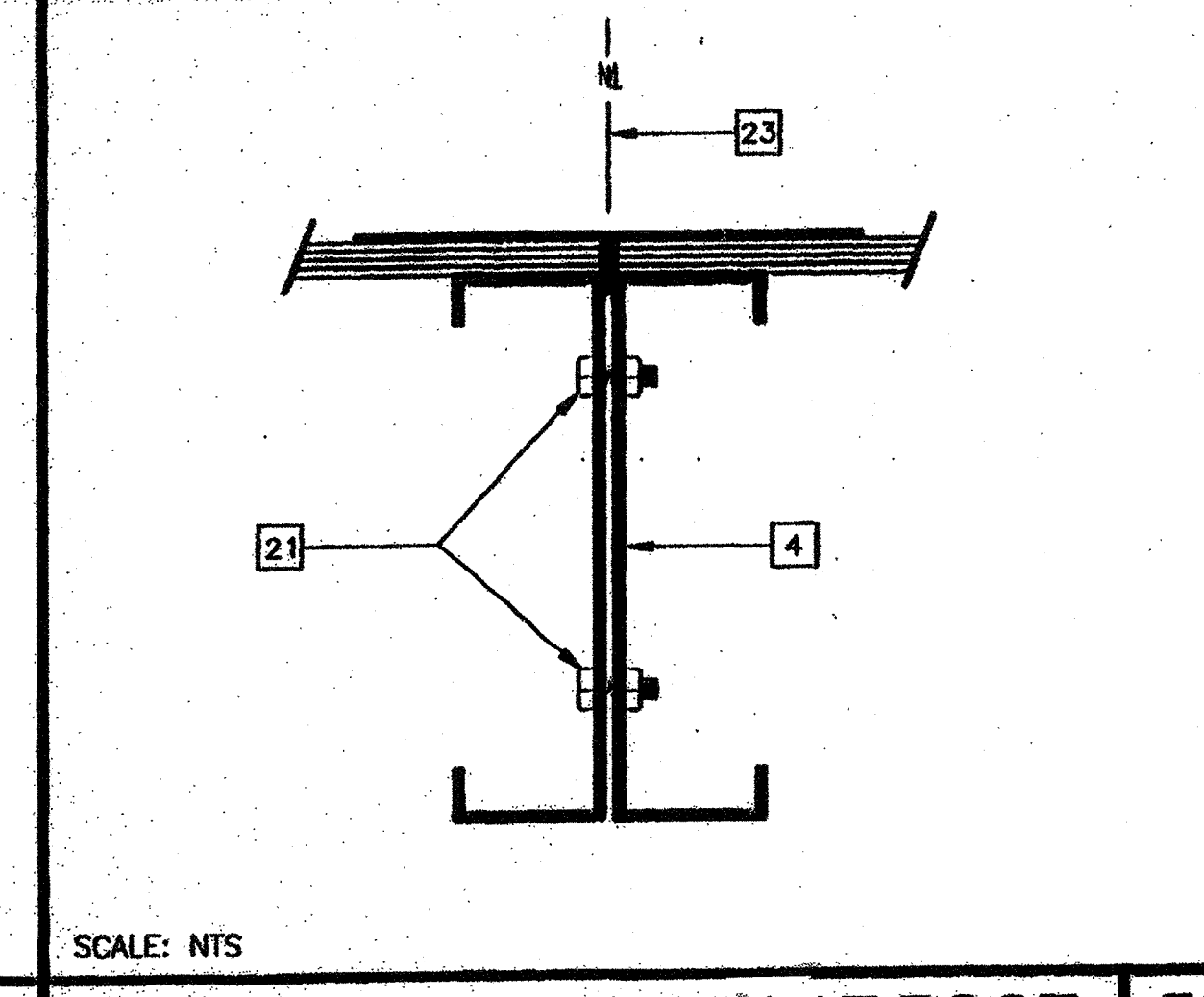
- KEY NOTES**
- 1 FLOOR BEAM - 1/S1
  - 2 FLOOR HEADER - 1/S1
  - 3 FLOOR JOIST - 2/S1
  - 4 TAPERED ROOF BEAM - 1/S2.01
  - 5 ROOF HEADER - 2/S2.01
  - 6 ROOF FASCIA AT 2'-0" OVERHANG - 3/S2.01
  - 7 ROOF FASCIA AT 5'-0" OVERHANG - 3/S2.01
  - 8 ROOF PURLIN - 4/S2.01
  - 9 1/4" FULL DEPTH STIFFENER PLATE AT 8'-0" OC TYPICAL ALIGN WITH PURLIN - 9/S2.01
  - 10 TUBE STEEL COLUMN, SEE TABLE BELOW, 8/S3.01
  - 11 4"x4"x1/4" STEEL STIFFENER PLATE. WHEN CONCRETE FOUNDATIONS ARE USED REPLACE LOWER PLATE WITH 5"x8"x1/4" ANCHOR BOLT PLATE - 3/S1
  - 12 4"x4"x1/4" TUBE STEEL STUB
  - 13 (1) 3 1/2"x3 1/2"x10 GA TUBE STEEL BACK UP TUBE OR (2) 10 GA BACK UP PLATES
  - 14 4"x4"x1/4" ANGLE STIFFENER
  - 15 BACK-UP PLATE - 10 GA MIN
  - 16 1/4" BASE PLATE - INSERT FLUSH WITH STIFFENER TUBE
  - 18 RIDGE
  - 19 1/4" FULL DEPTH STIFFENER PLATE AT 4'-0" OC AT EXTERIOR SIDEWALLS ONLY FOR 80 MPH DESIGN WIND LOAD ONLY
  - 20 HAND HOLE AT BOLT LOCATION
  - 21 5/8" MB A307 AT MODULE CONNECTION JOINT - SEE FLOOR/ROOF FRAMING PLANS
  - 22 FLOOR SHEATHING
  - 23 MODULE JOINT
  - 24 ATTIC RELIEF VENT - 4-1/2" HOLE



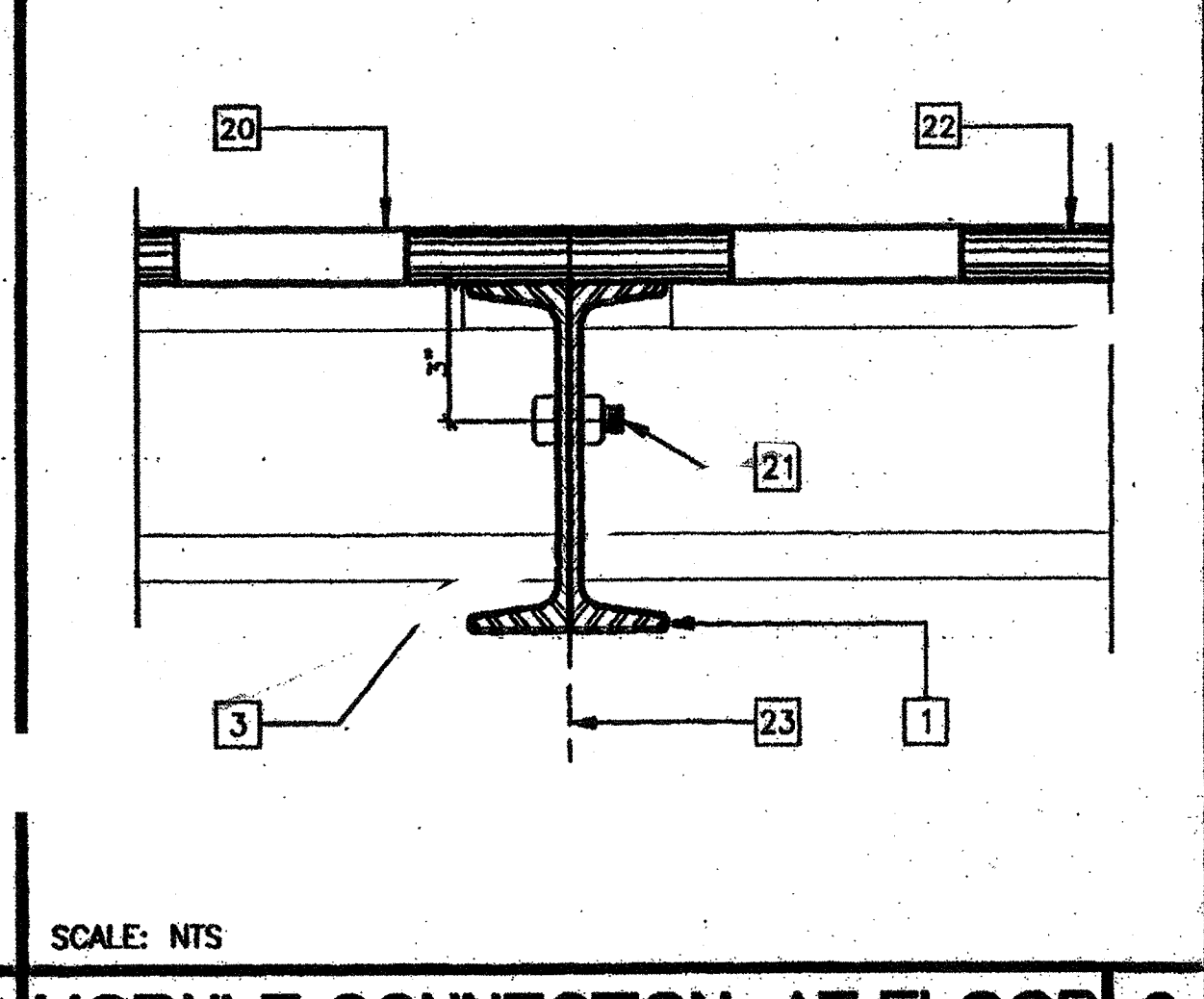
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PENETRATION REINFORCEMENT 14



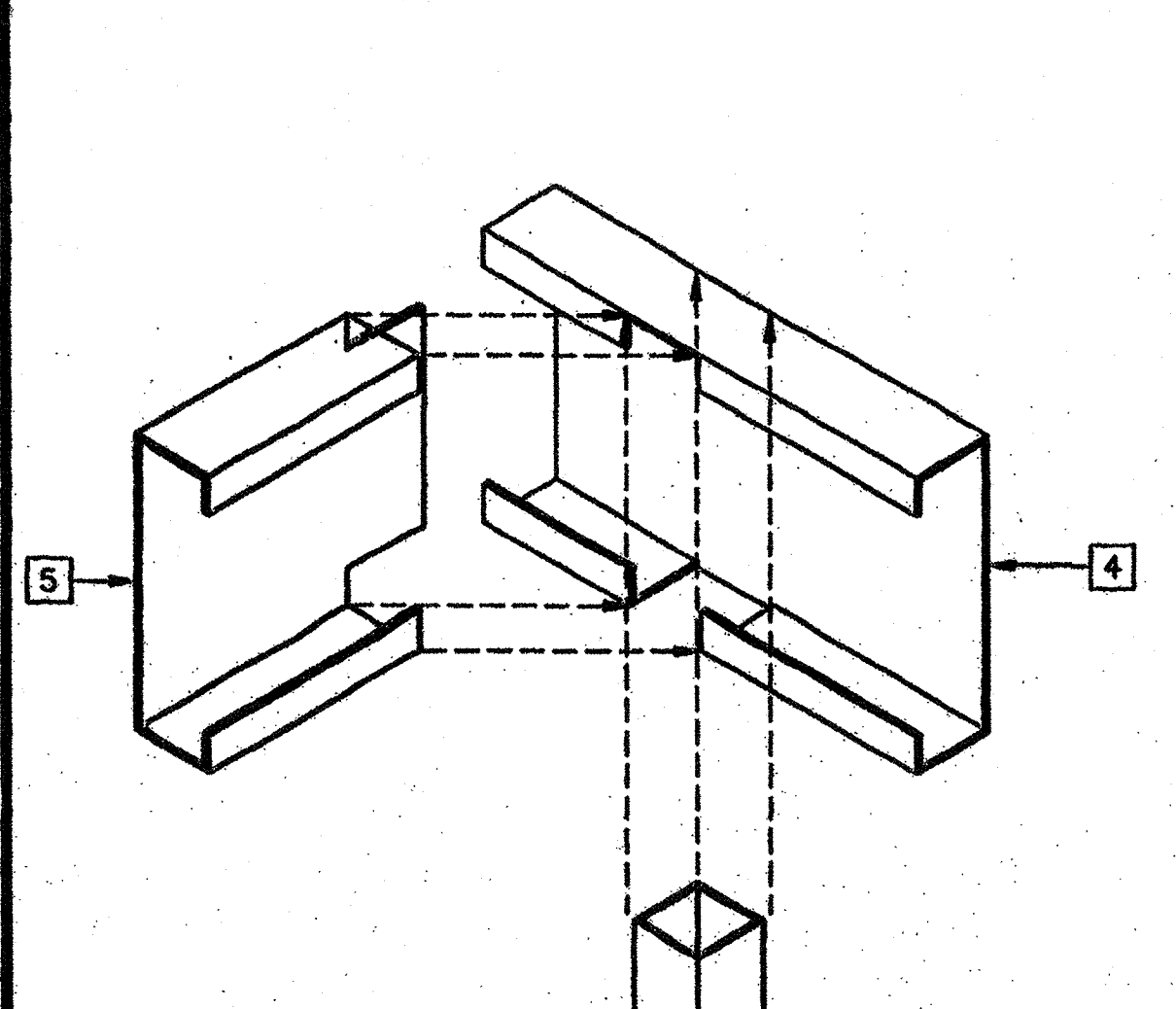
SCALE: 6"=1'-0"  
TUBE STEEL COLUMN/STIFFENER 15



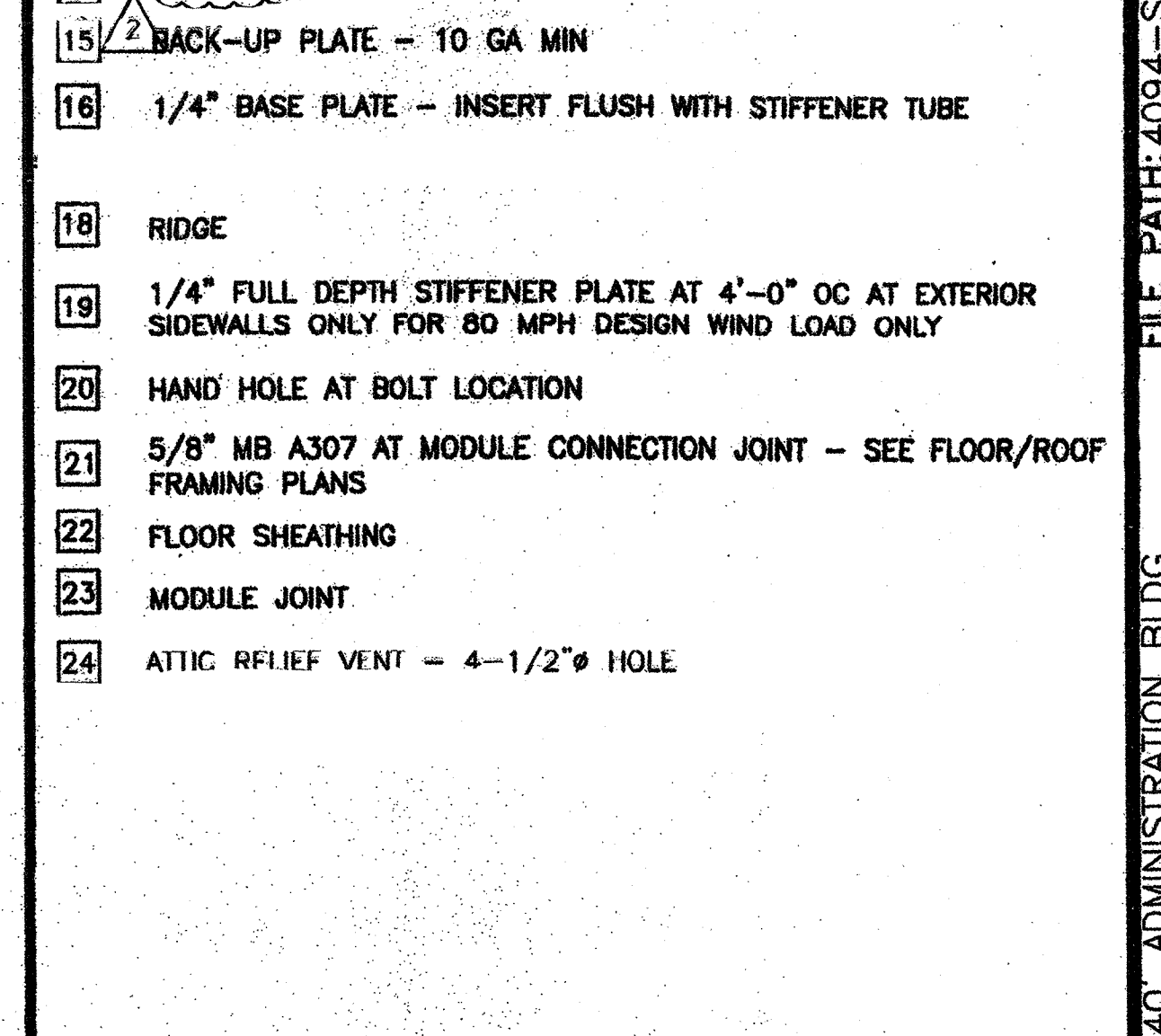
SCALE: NTS  
MODULE CONNECTION AT ROOF 16



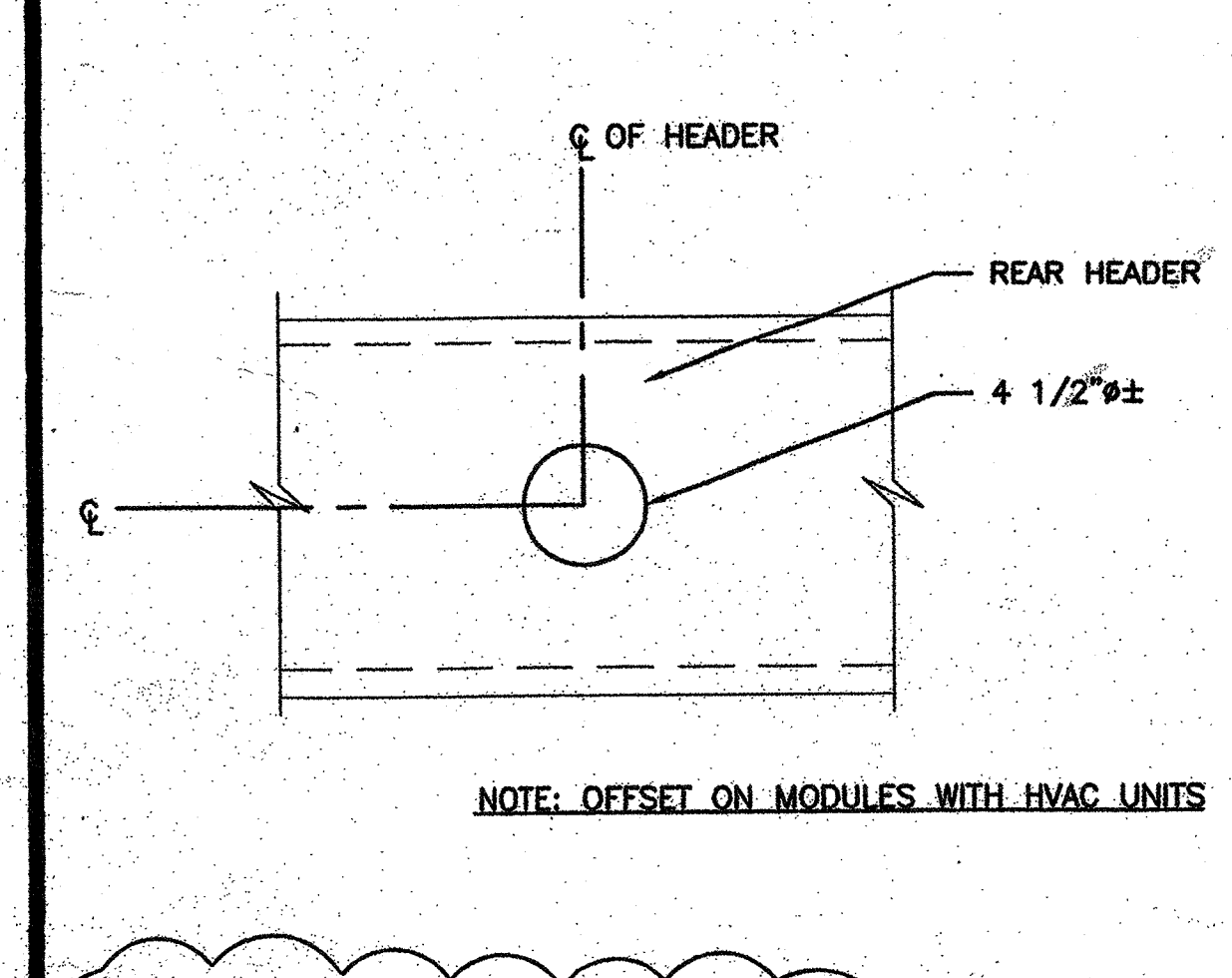
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MODULE CONNECTION AT FLOOR 17



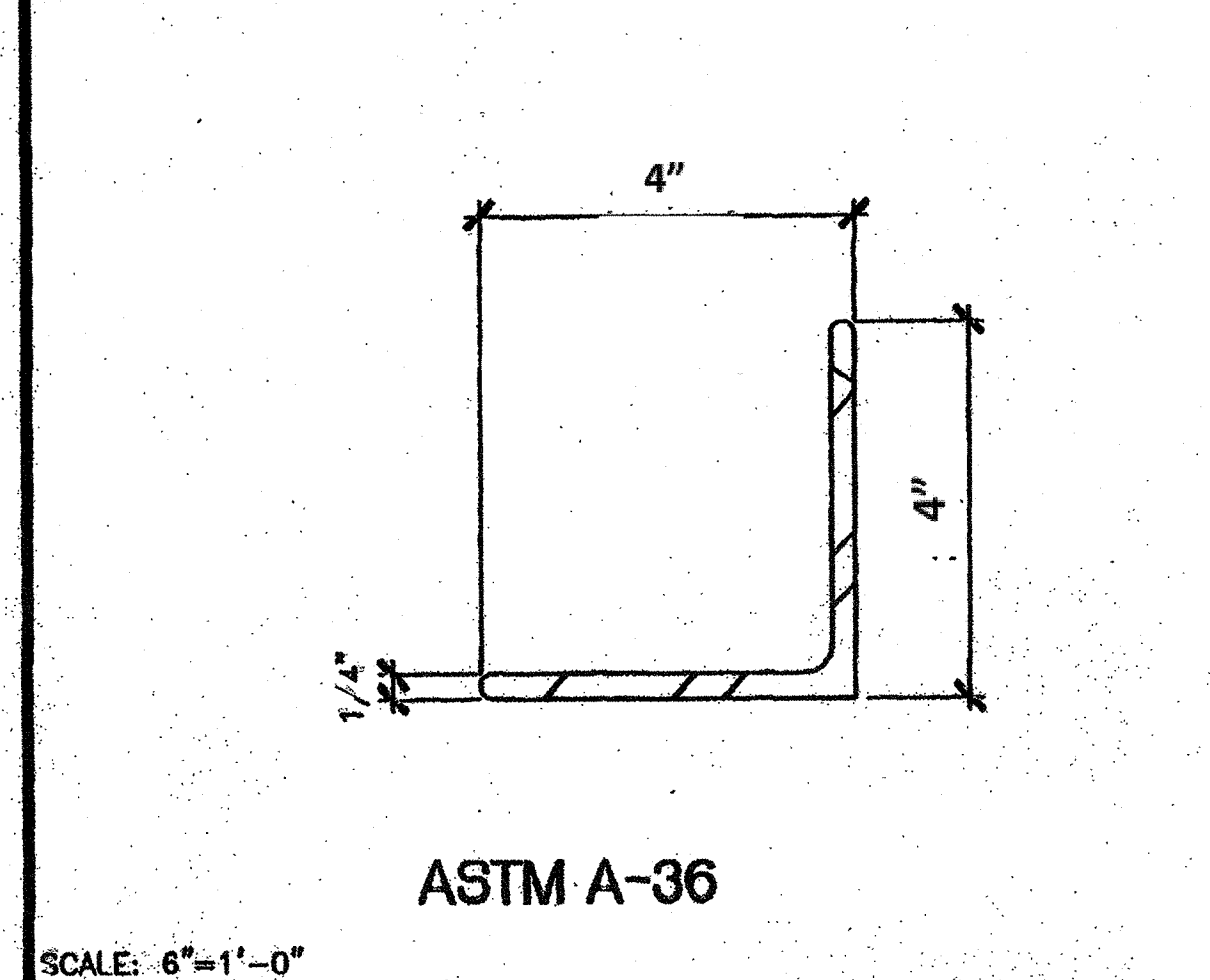
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COLUMN AT ROOF 18



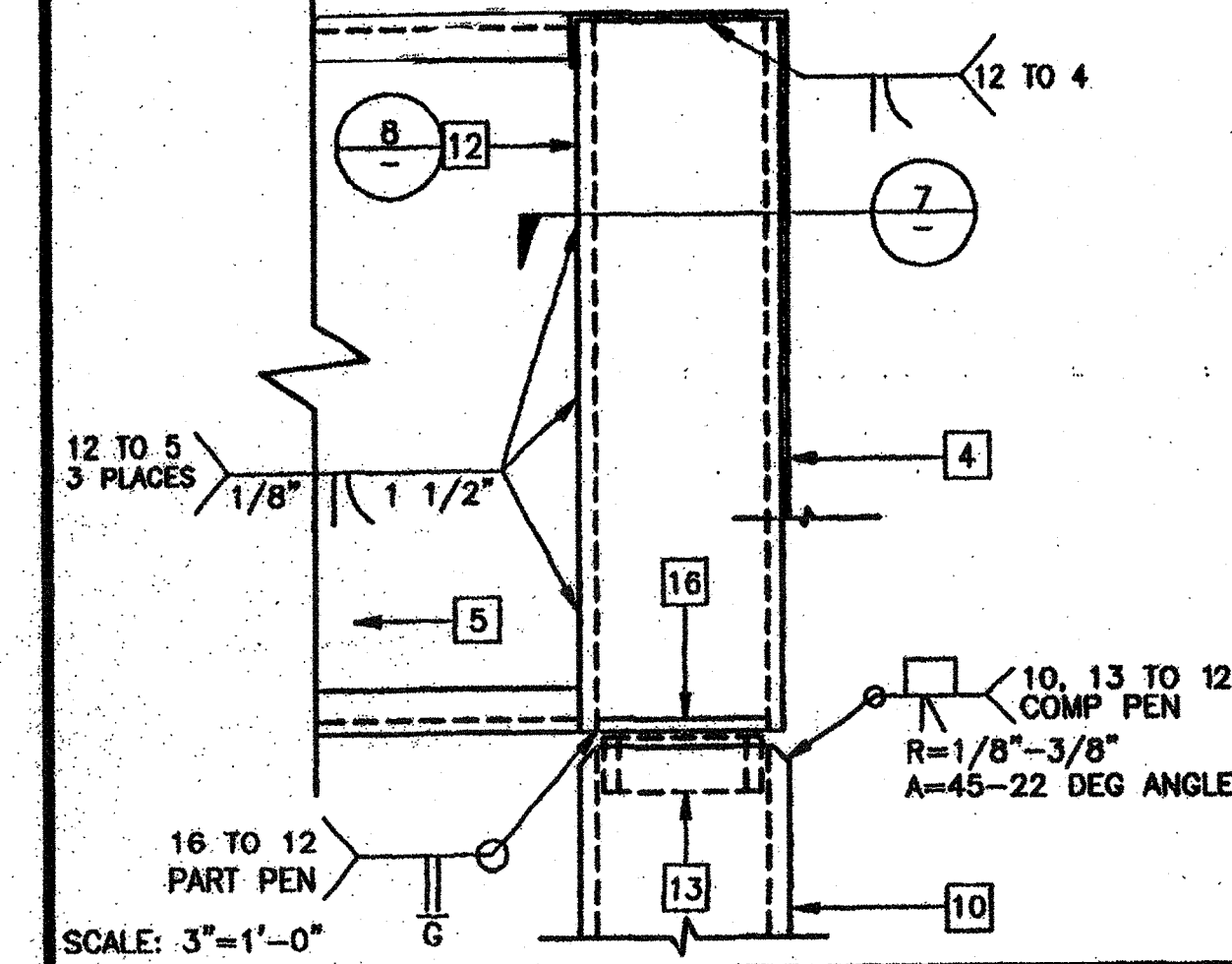
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COLUMN AT FLOOR 19



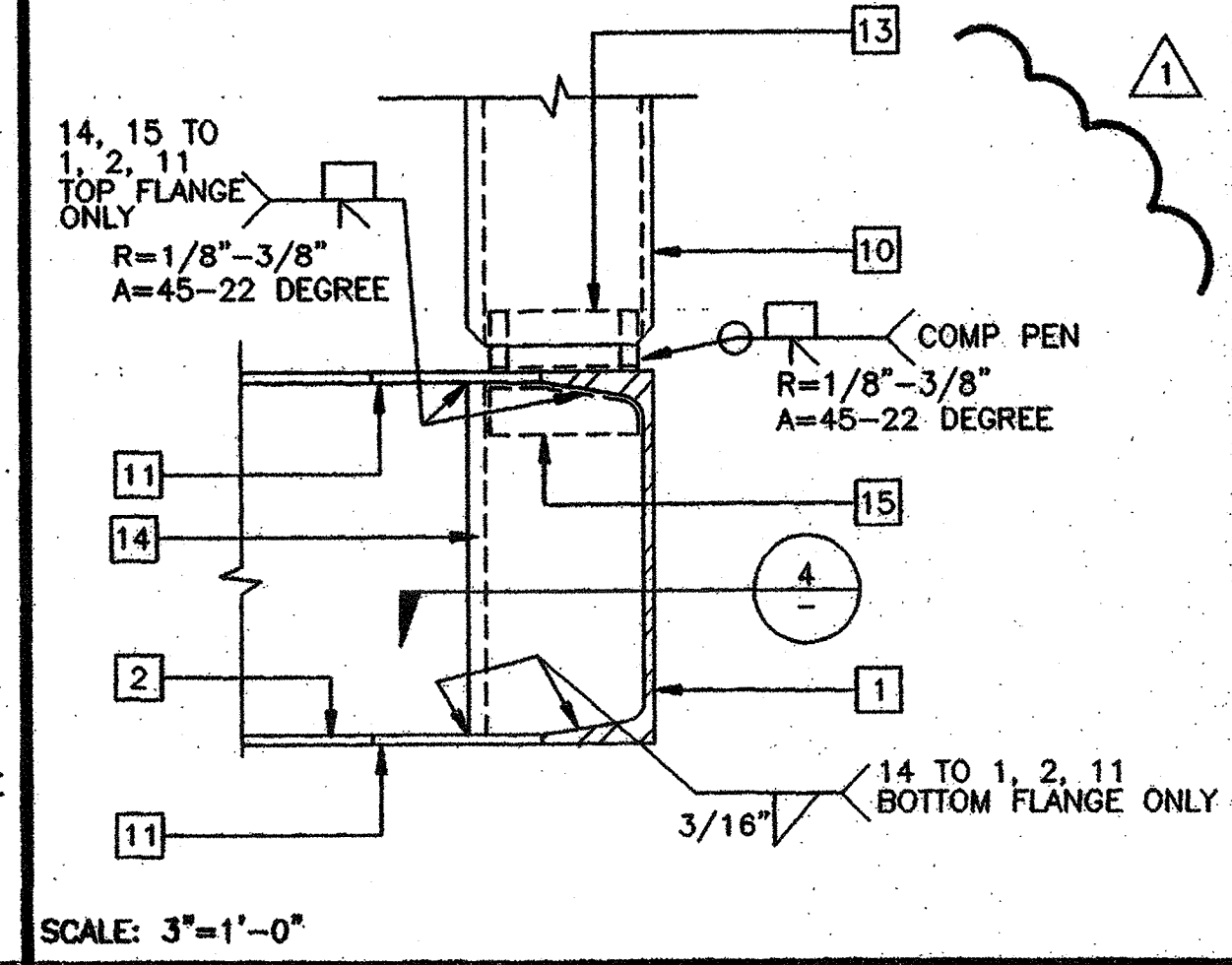
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ATTIC RELIEF VENT 20



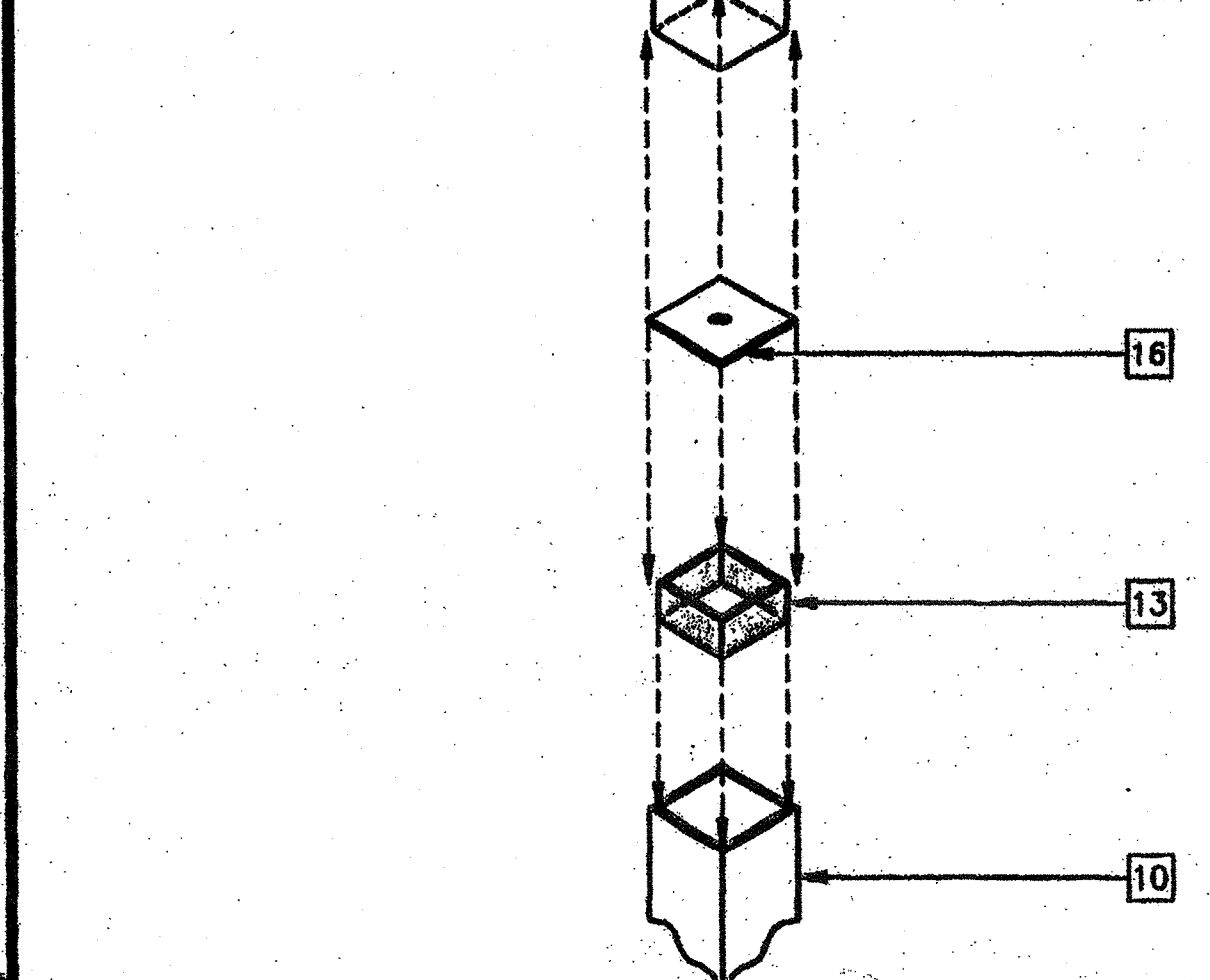
SCALE: 6"=1'-0"  
STIFFENER ANGLE 21



SCALE: 3"=1'-0"  
COLUMN AT ROOF 22



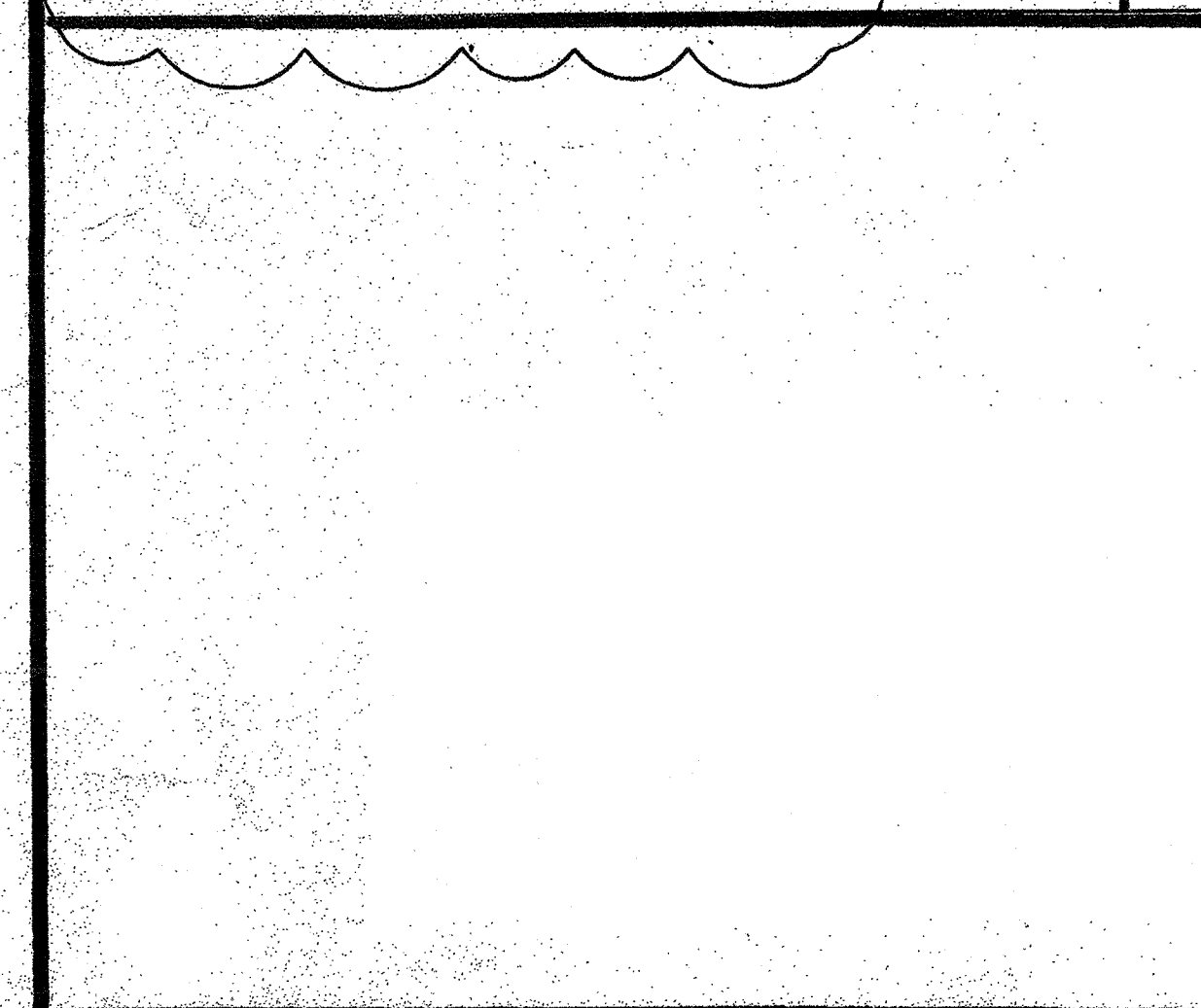
SCALE: 3"=1'-0"  
COLUMN AT FLOOR 23



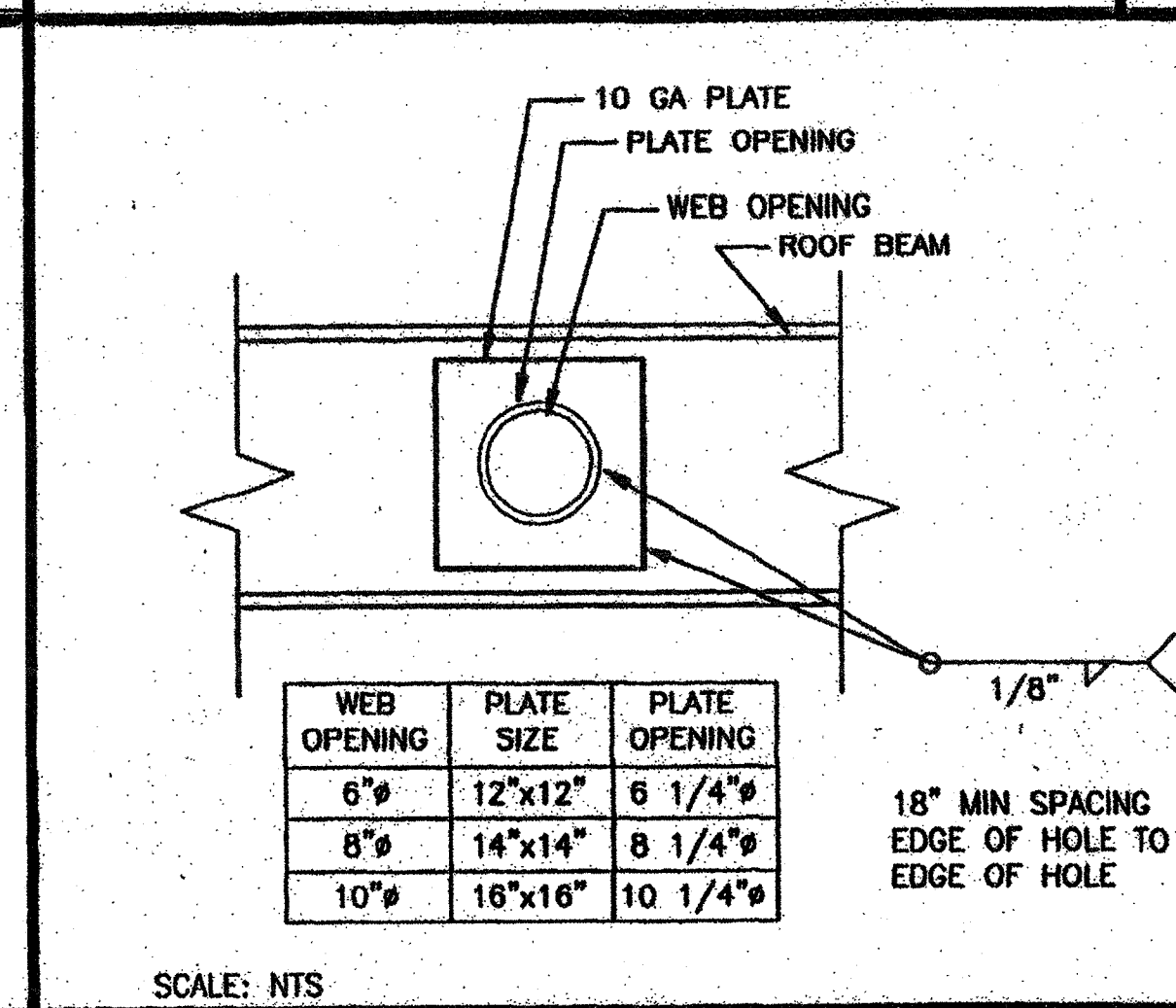
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COLUMN AT FLOOR AND ROOF 24

**COLUMN SIZE TABLE**

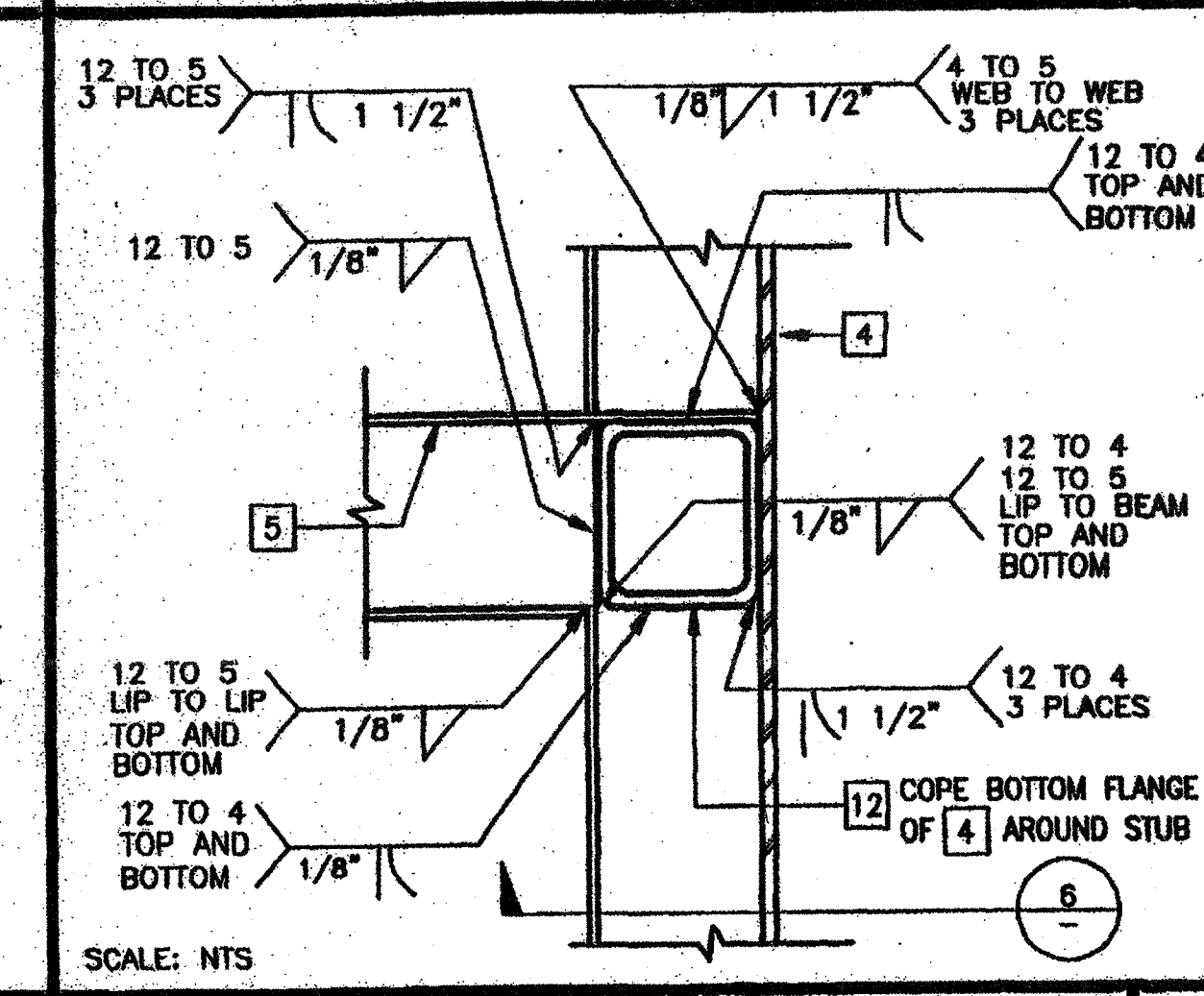
DESIGN WIND LOAD	COLUMN SIZE
70 MPH	4"x4"x1/4"
80 MPH	3 1/2"x3 1/2"x5/16"



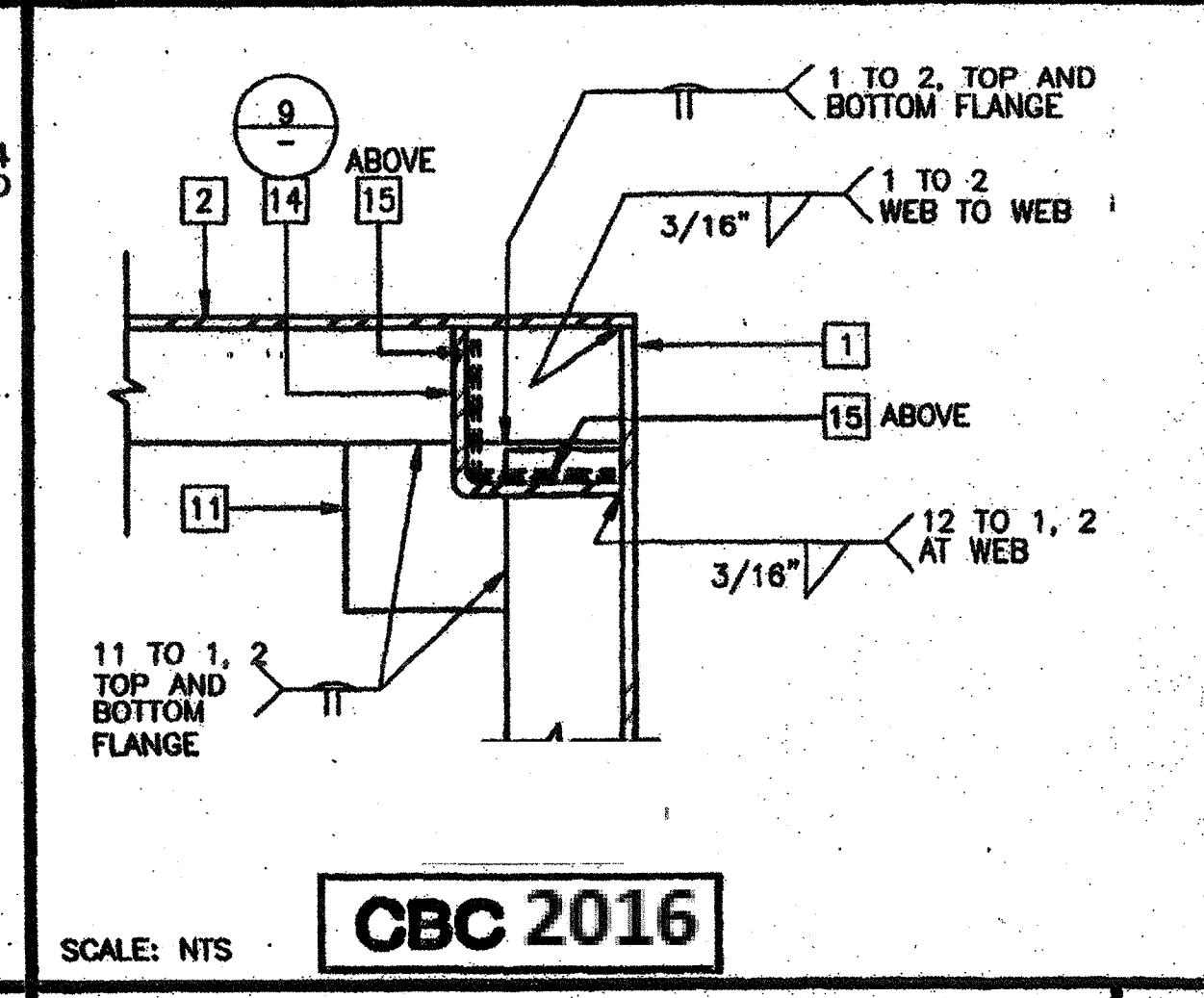
SCALE: NTS  
OPTIONAL BEAM PENETRATION 25



SCALE: NTS  
COLUMN AT ROOF 26



SCALE: NTS  
STIFFENER AT FLOOR 27



SCALE: NTS  
COLUMN AT FLOOR AND ROOF 28

**REVISIONS**

NO.	DESCRIPTION	DATE
1	CHANGED FLANGE WELD CALL OUT DET. 3	11/9/00
2	COLUMN HEIGHT AND SIZE REVISED FROM P.C. & ADDED ATTIC VENTING PER JOB #4094	3/15/02

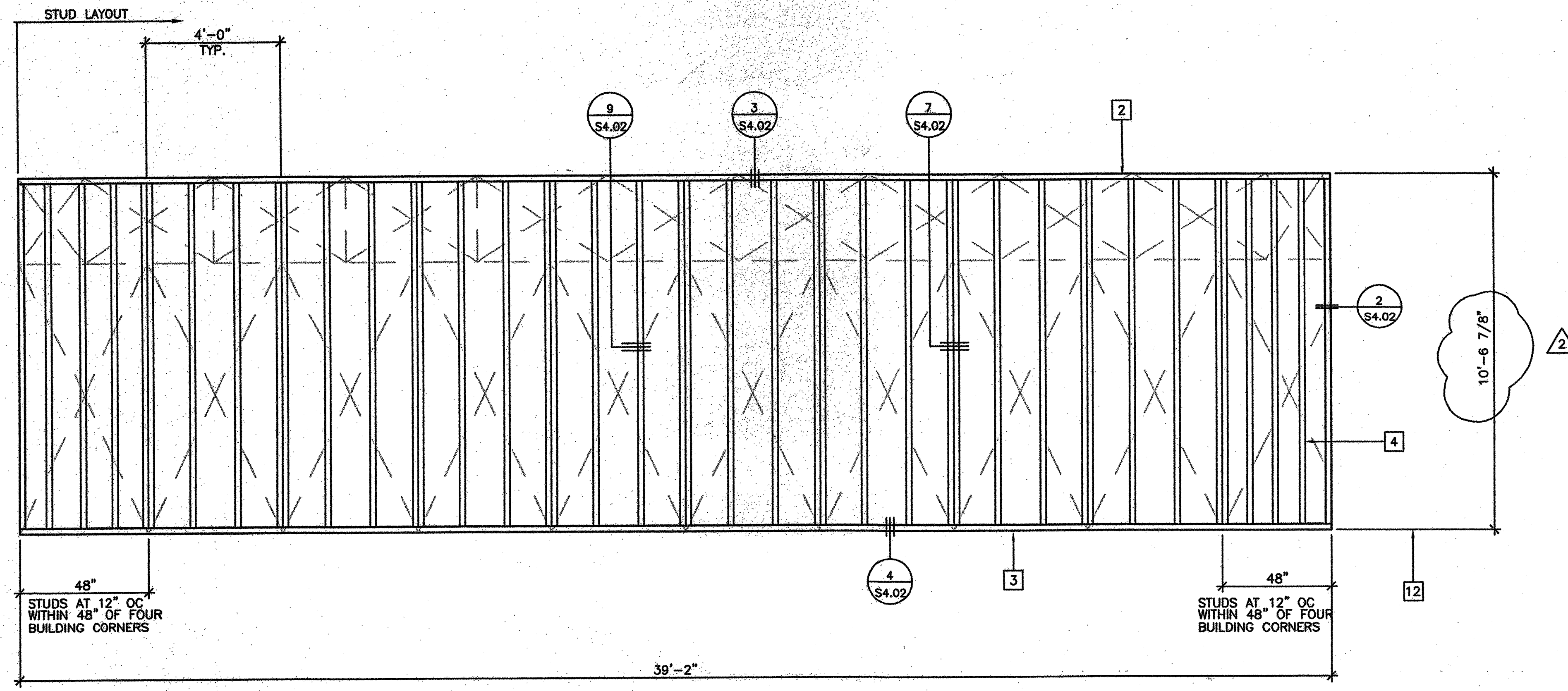
Electrical Engineer's Seal  
Mechanical Engineer's Seal  
Structural Engineer's Seal  
Architect's Seal

IDENTIFICATION STAMP  
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PC-04  
101266  
DATE: SEP 11 2002  
REVISED NOV 0

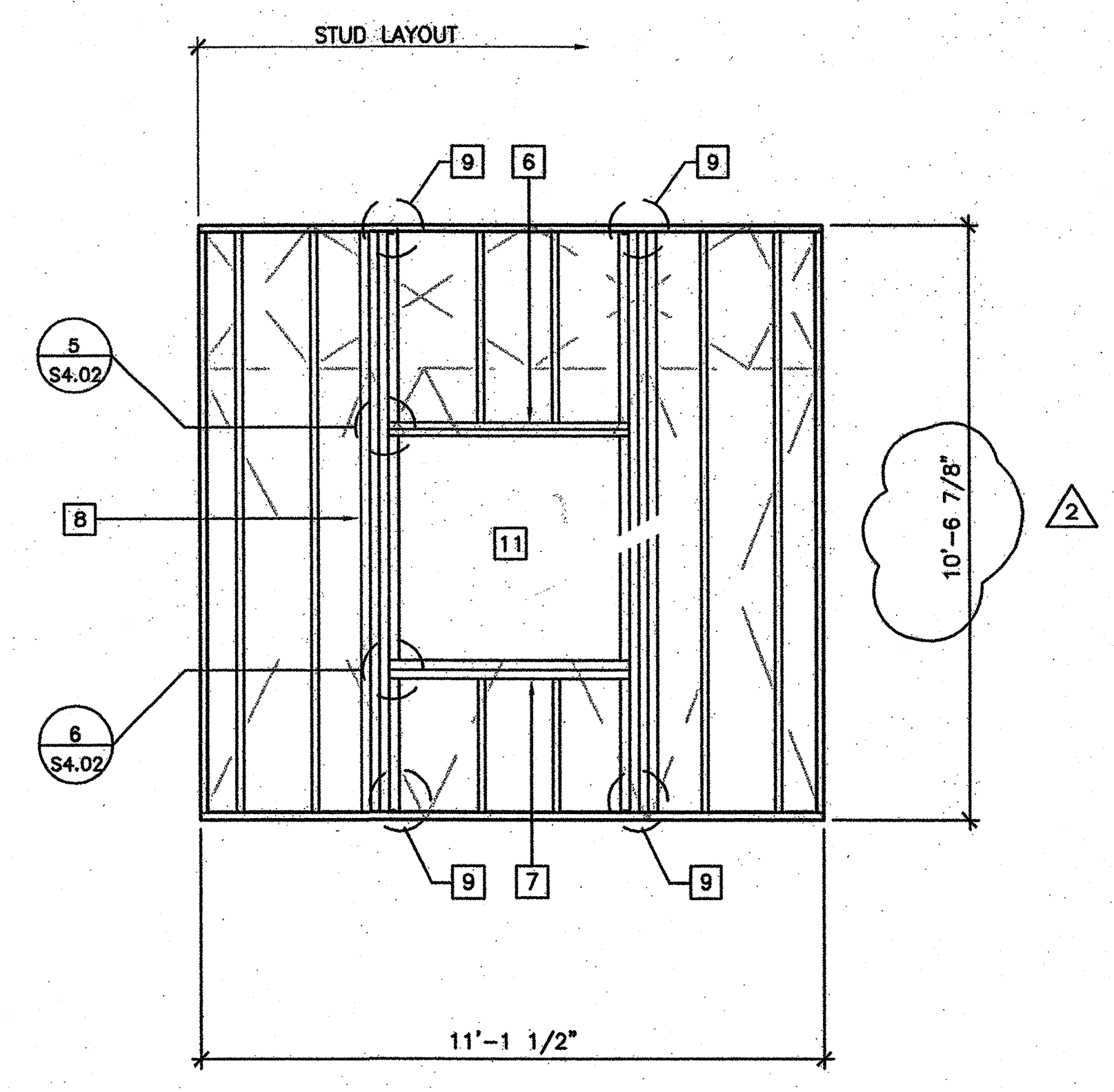
**MODTECH INC.**  
2830 BARRETT AVENUE  
PERRIS, CALIF. 92572  
PH (909) 943-4014  
FAX (909) 940-0427

PROJECT NUMBER: 4094  
OAK PARK UNIFIED SCHOOL DISTRICT  
BROOKSIDE ELEMENTARY SCHOOL (1) 72' x 40' ADMINISTRATION BLDG.

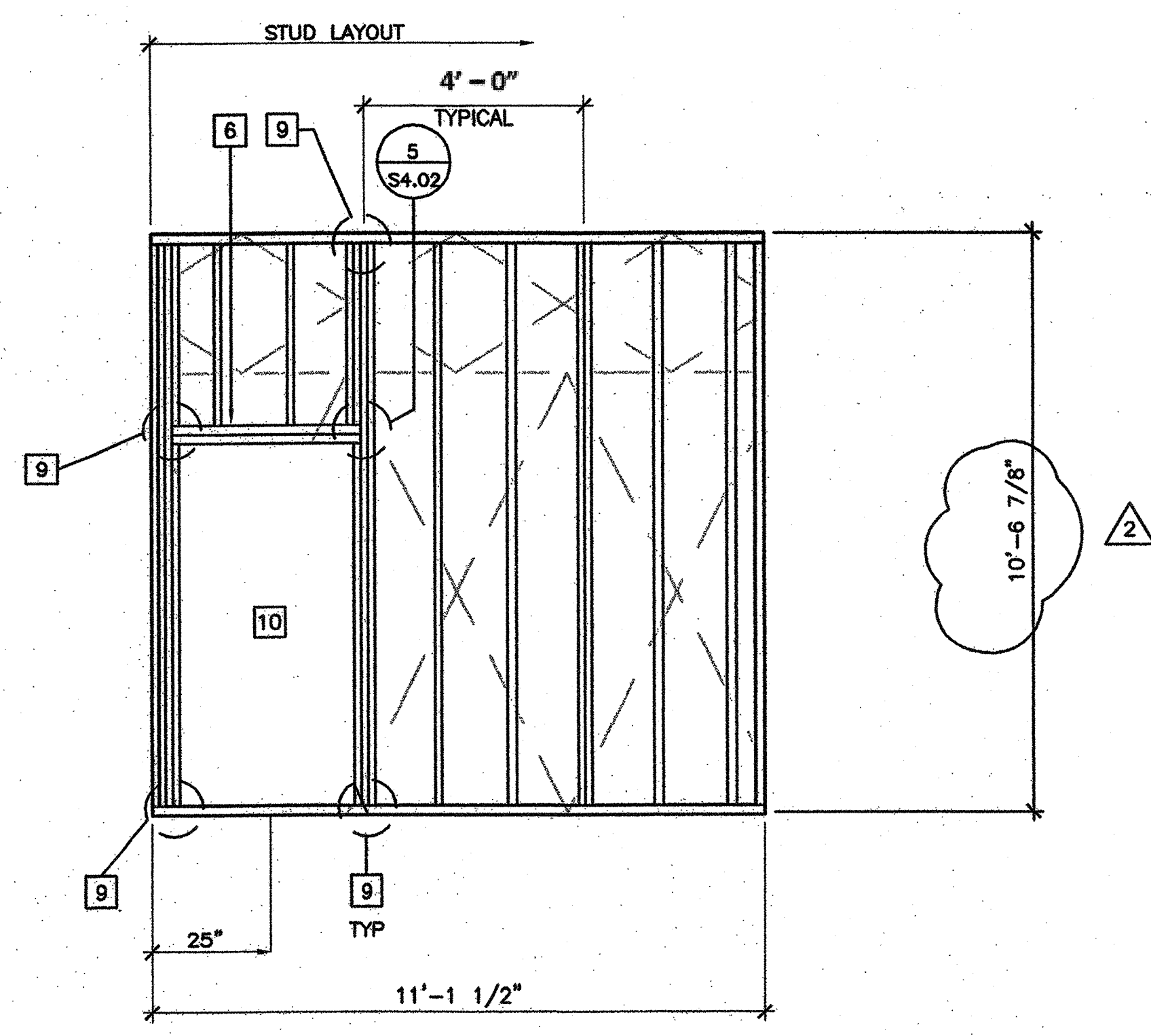
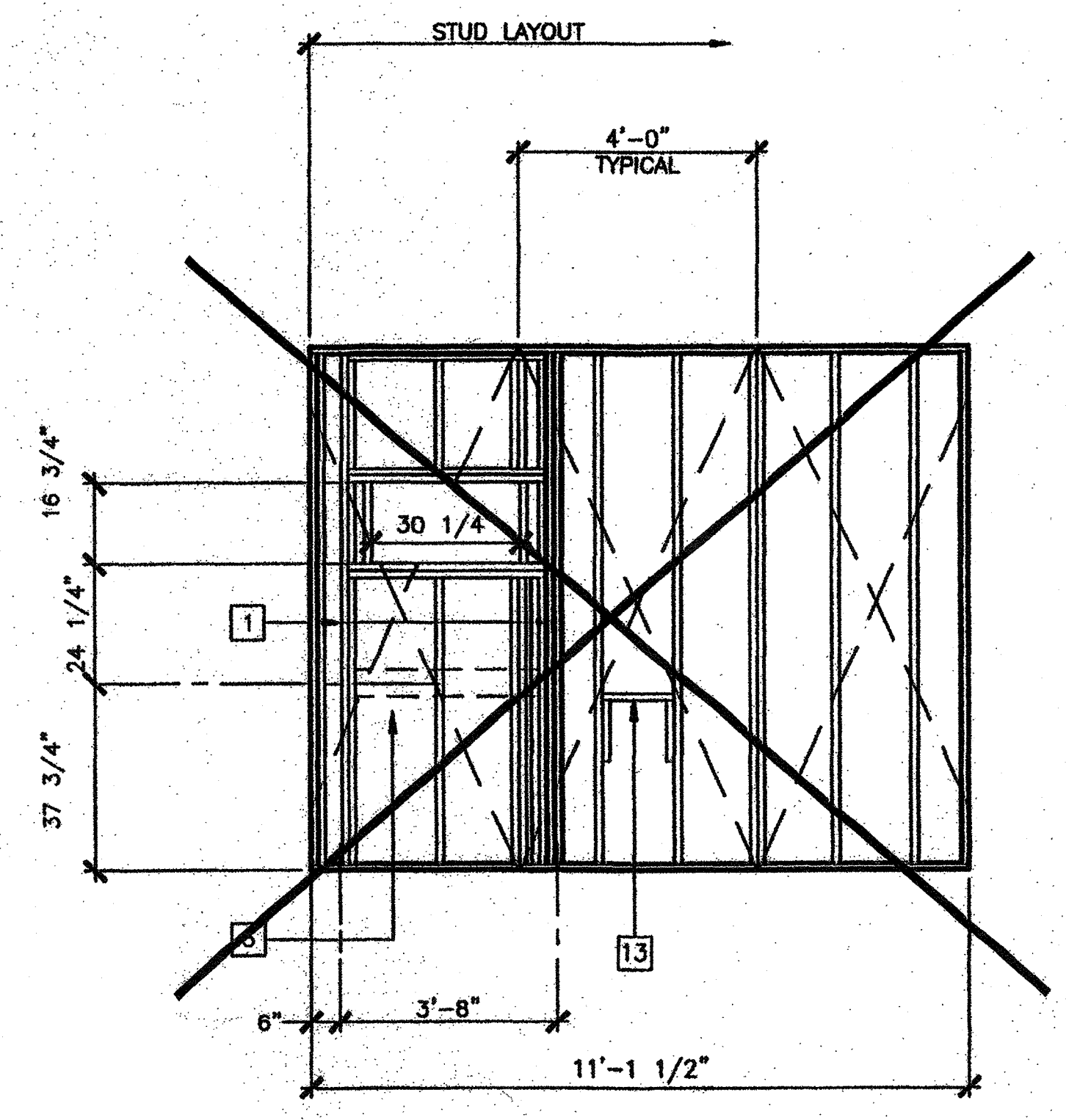
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DRAWN BY: CM  
DATE: 3/1/02  
CHECKED BY: SW  
DATE: 1/5/2018  
MODTECH Index No.  
**S3.01**



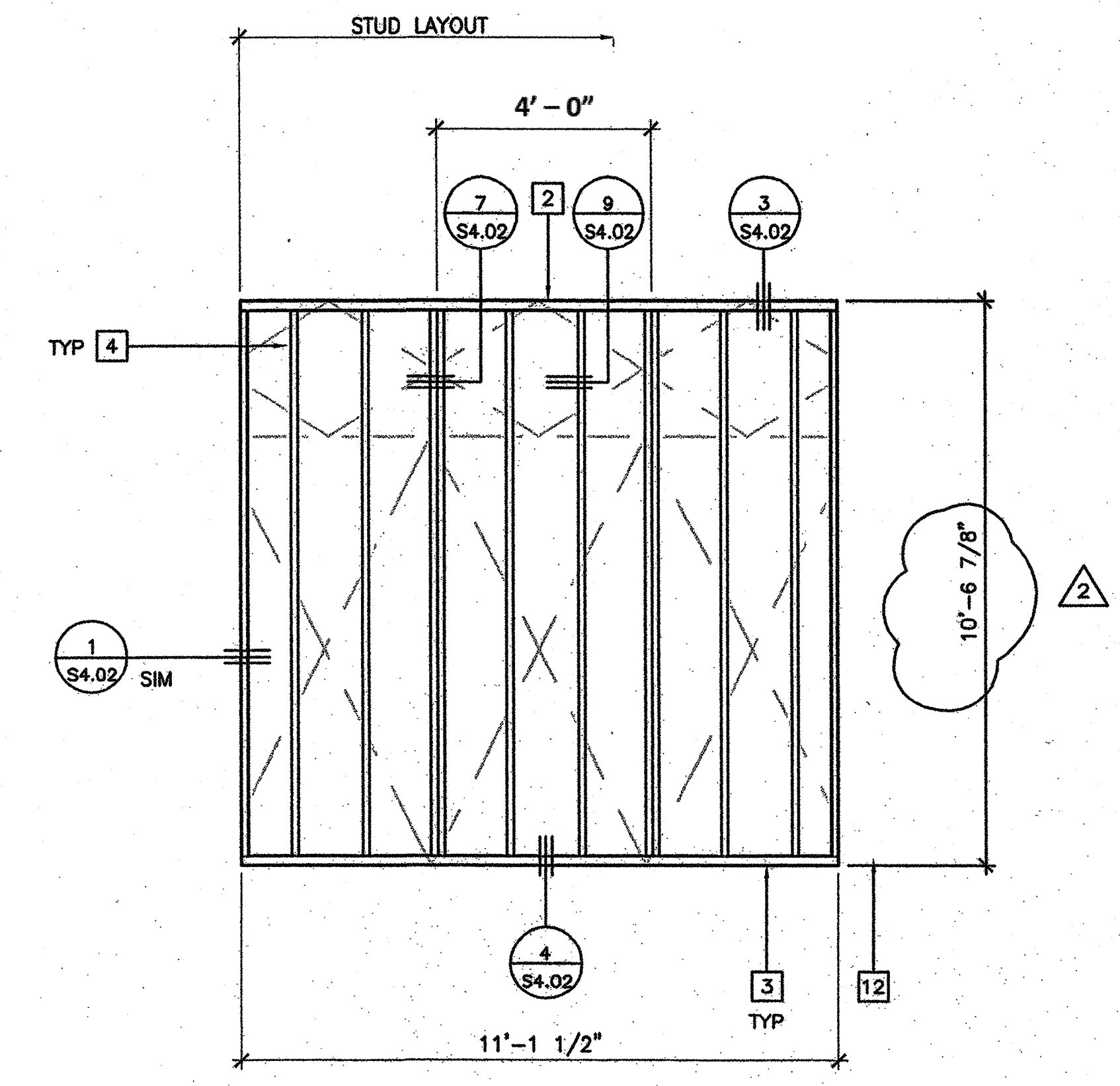
TYPICAL SIDE WALL



TYPICAL WINDOW



TYPICAL DOOR



TYPICAL END WALL

- KEY NOTES**
- 1 4"x4" POST
  - 2 2"x4" TOP PLATE
  - 3 2"x4" FLOOR SILL PLATE
  - 4 2"x4" STUDS AT 16" OC TYPICAL - FOR BUILDINGS EXCEEDING 2160 SF ONLY USE 12" OC SPACING WITHIN 4'-0" OF BUILDING CORNERS
  - 5 2"x6" LET IN FOR AC SUPPORT
  - 6 2"x4" HEADER - 13/54.02
  - 7 2"x4" SILL - 13/54.02
  - 8 2"x4" FULL HEIGHT KING STUDS AND 2"x4" TRIMMER 13/54.02
  - 9 A 34 CLIPS AT HEADER AND SILL TO FULL HEIGHT STUDS AND FULL HEIGHT STUDS TO TOP AND BOTTOM PLATES
  - 10 REQUIRED OPENING FOR A 3068 DOOR - 13/54.02
  - 11 REQUIRED OPENING FOR A 6046 WINDOW - 13/54.02
  - 12 FINISH FLOOR LINE
  - 13 FRAME FOR ELECTRICAL PANEL
  - 14 PROVIDE 2x6 FLAT WALL BLOCKING WITH 3-16d BOX NAILS EACH END AT EACH HANDRAIL CONNECTION - 6/R1.01 SEE FLOOR PLAN FOR RAMP LOCATION.

**WALL FRAMING ELEVATIONS**

WOOD STUDS  
SCALE: 3/8" = 1'-0"

**CBC 2016**

REVISIONS		
SP	MODTECH ENGINEERING CHANGE	09/28/00
CM	WALL HEIGHTS INCREASED AND WINDOW OPENING MODIFIED FROM P.C. PER JOB #4094	3/15/02

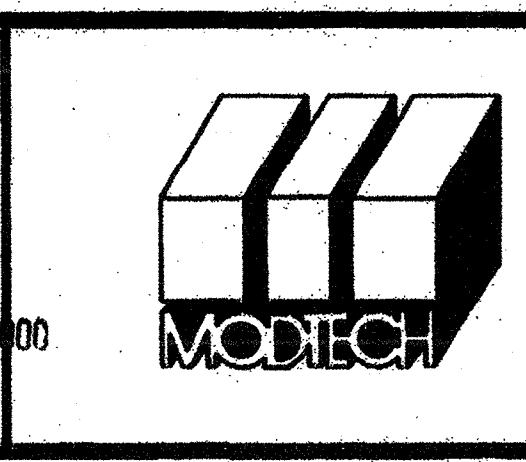
Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architect's Seal

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DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
PC-04  
101268  
AC FLS SS  
DATE 09 07 2004  
REVISED OCT 02 2000



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

PROJECT NUMBER: 4094  
OAK PARK UNIFIED SCHOOL DISTRICT  
BROOKSIDE ELEMENTARY SCHOOL

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(1) 72' x 40' ADMINISTRATION BLDG.

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DIV. OF THE STATE ARCHITECT  
A 03 11R 756  
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Date 102-2018  
DRAWN BY: CM  
DATE: 3/1/02  
CHECKED BY: SW  
DATE: 1/5/2018  
MODTECH Index No.  
**S4.01**

**WALL FRAMING**

WOOD STUDS

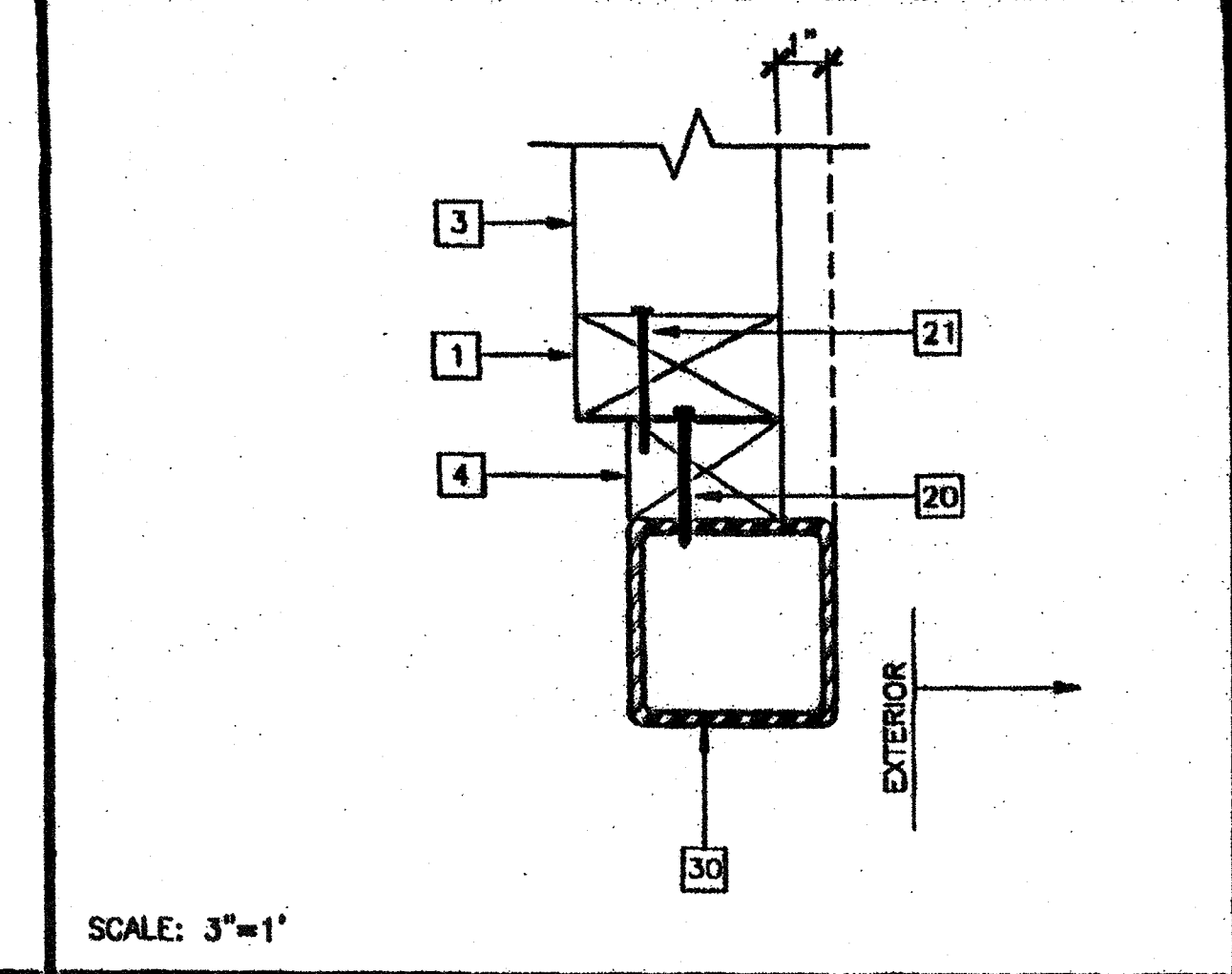
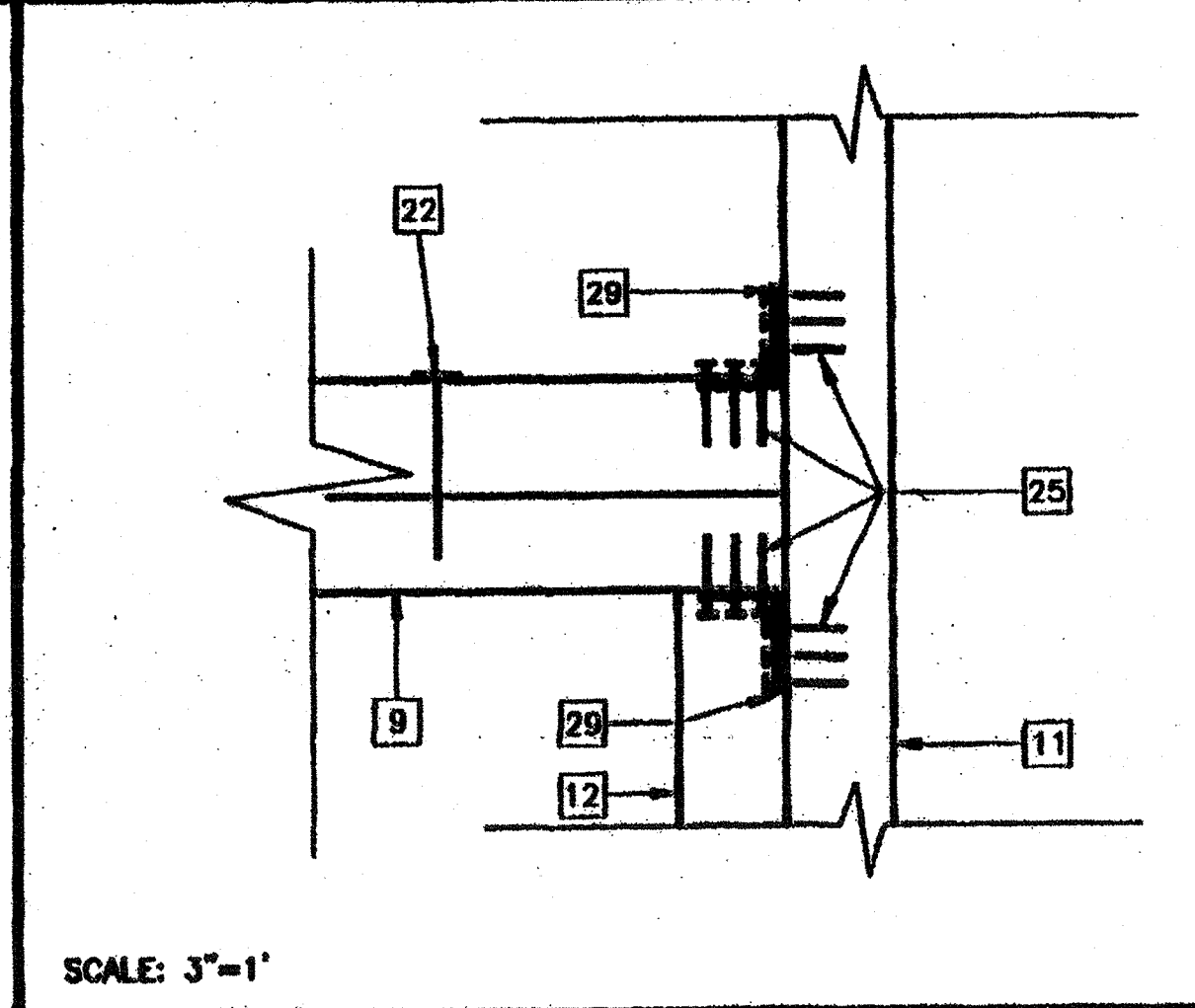
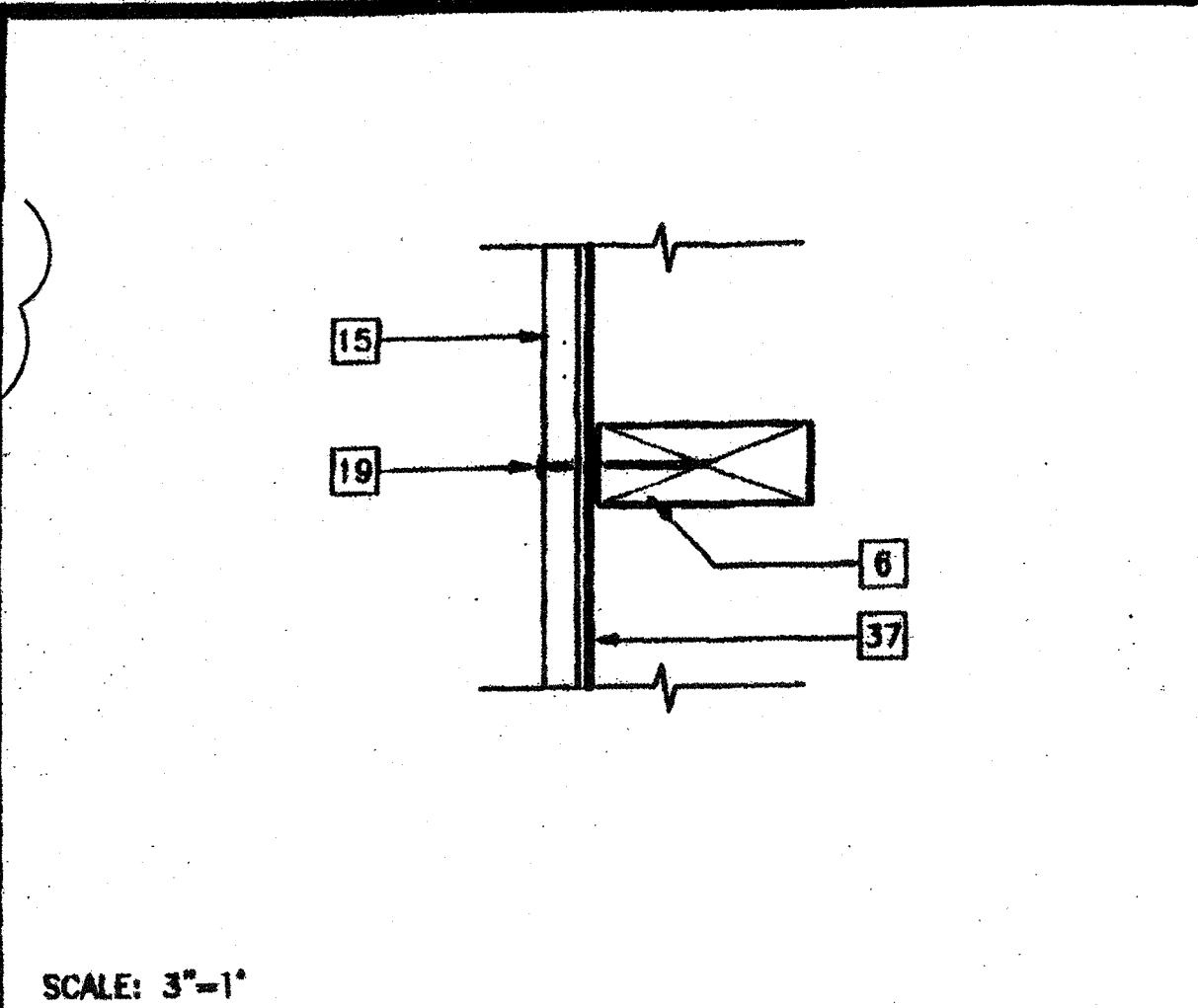
PROJECT NO. 4094-OAK PARK UNIFIED SCHOOL DISTRICT - BROOKSIDE ELEMENTARY SCHOOL - (1)72'x40' ADMINISTRATION BLDG. FILE PATH: 4094-S4.01.DWG

NOTE:  
ALL NAILS SHALL BE BOX NAILS UNLESS OTHERWISE NOTED

CONNECTION	NAILING
1. JOIST TO SILL OR GIRDER, TOENAIL	3-Bd
2. BRIDGING TO JOIST, TOENAIL EACH END	2-Bd
3. 1"x8" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	2-Bd
4. WIDER THAN 1"x8" SUBFLOOR TO EACH JOIST, FACE NAIL	3-Bd
5. 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	2-18d
6. SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL	16d AT 16" OC
7. SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANELS	3-16d PER 16"
7. TOP PLATE TO STUD, END NAIL	2-16d
8. STUD TO SOLE PLATE	4-Bd, TOENAIL OR 2-18d, END NAIL
9. DOUBLE STUDS, FACE NAIL	16d AT 24" OC
10. DOUBLE TOP PLATES, TYPICAL FACE NAIL	16d AT 16" OC
11. DOUBLE TOP PLATES, LAP SPLICE	8-18d
11. BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3-Bd
12. RIM JOIST TO TOP PLATE, TOENAIL	8d AT 6" OC
13. TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL	2-16d
14. CONTINUOUS HEADER, TWO PIECES	16d AT 16" OC ALONG EACH EDGE
15. CEILING JOIST TO PLATE, TOENAIL	3-Bd
16. CONTINUOUS HEADER TO STUD, TOENAIL	4-Bd
17. CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3-18d
18. CEILING JOISTS, TO PARALLEL RAFTERS, FACE NAIL	3-18d
19. RAFTER TO PLATE, TOENAIL	3-Bd
20. 1" BRACE TO EACH STUD AND PLATE, FACE NAIL	2-Bd
21. 1"x8" OR LESS SHEATHING TO EACH BEARING, FACE NAIL	2-Bd
22. WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL	3-Bd
23. BUILT-UP CORNER STUDS	16d AT 24" OC
24. BUILT-UP GIRDER AND BEAMS	20d AT 32" OC AT TOP AND BOTTOM AND STAGGERED 2-20d AT ENDS AND AT EACH SPLICE
25. 2" PLANKS	2-16d AT EACH BEARING

OPENING	HEADER	SILL	JAMB	HEIGHT	WIDTH
3068	(2)2"x4"	N/A	(2)2"x4"	81 1/4"	36"
8040	(3)2"x4"	(2)2"x4"	(3)2"x4"	47 5/8"	95 3/4"
80610	(2)2"x4"	N/A	(3)2"x4"	83 1/4"	38"
6068	(2)2"x4"	N/A	(2)2"x4"	81 1/4"	74"
4640	(3)2"x4"	(2)2"x4"	(3)2"x4"	47 5/8"	53 3/4"
2040	(3)2"x4"	(2)2"x4"	(3)2"x4"	47 5/8"	23 3/4"

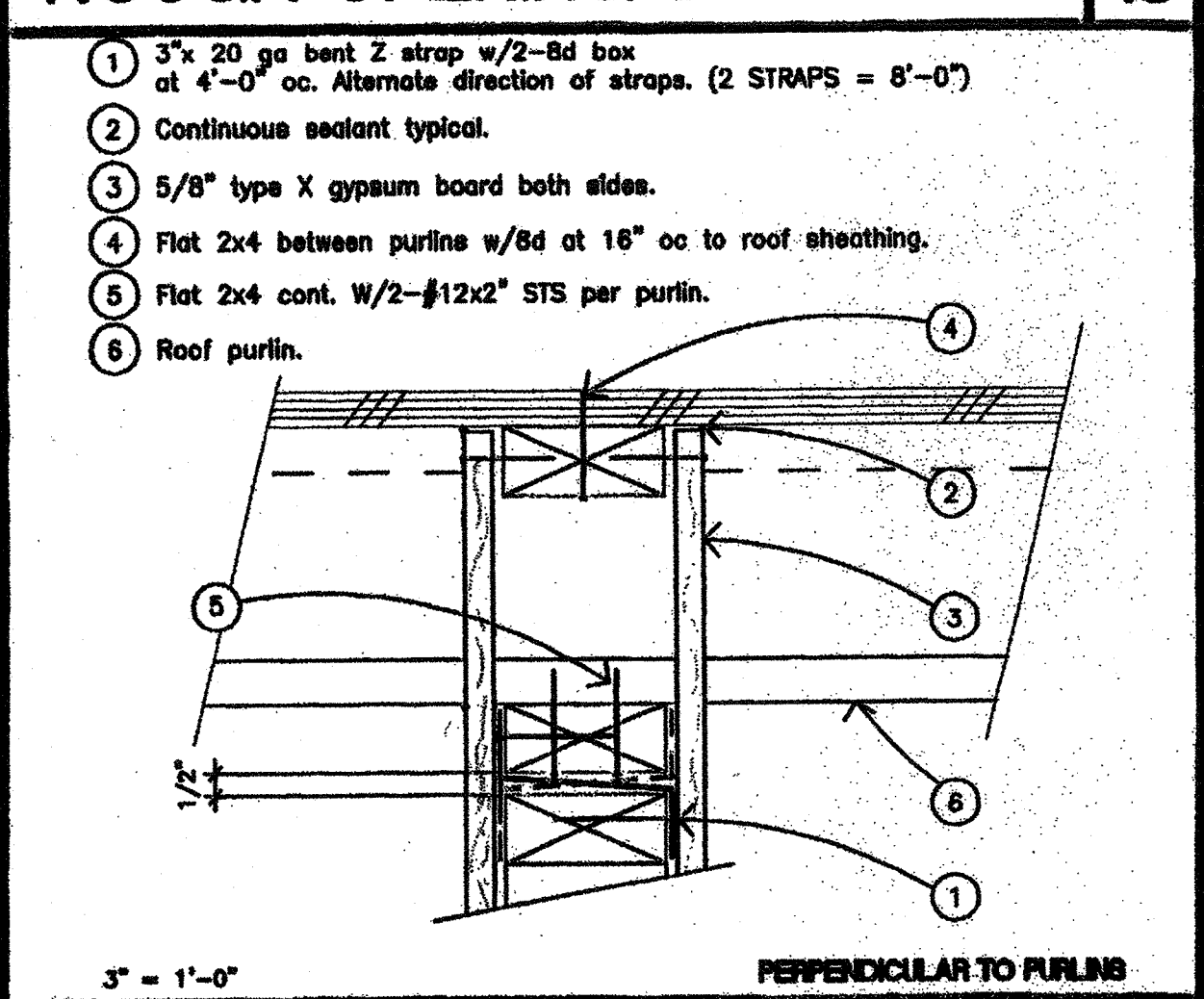
JAMB STUDS FOR 110 MPH DESIGN WIND LOAD



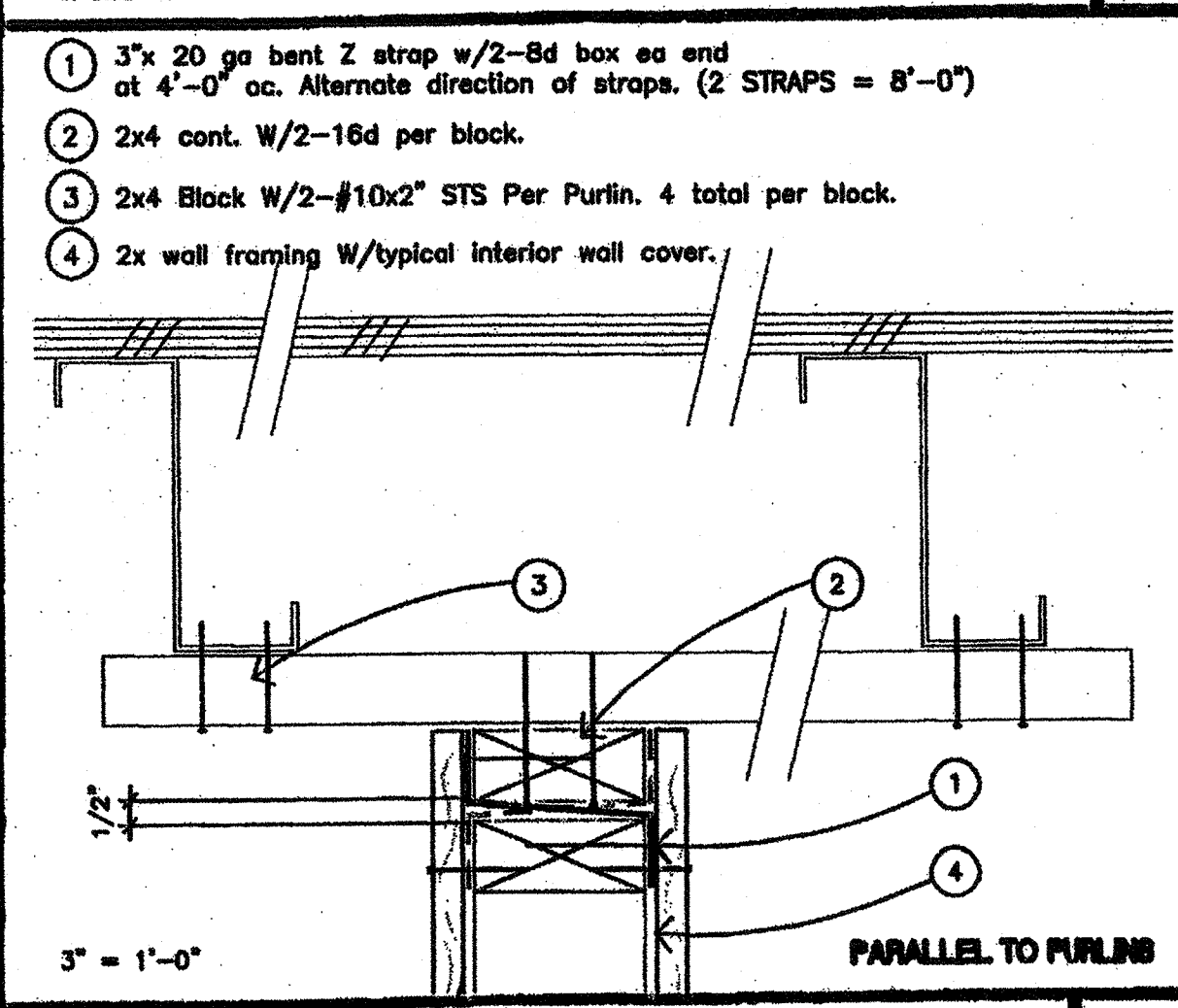
### KEY NOTES

- 2"x4" END PLATE
- 2"x4" TOP PLATE
- 2"x4" FLOOR SILL PLATE
- 2"x NAILER AT END WALL
- 2"x4" NAILER AT SIDE WALL
- 2"x4" AT 16" OC
- DOUBLE 2"x4" STUDS AT PLYWOOD EDGES
- 2"x4" BLOCKING
- HEADER - 13/54.02
- WINDOW SILL - 13/54.02
- FULL HEIGHT JAMB STUDS - 13/54.02
- 2"x4" TRIMMER STUD
- 2"x4" DOUBLE TOP PLATE AT INTERIOR PARTITIONS
- 2"x4" BRACE AT 8'-0" OC MAX AT 45" MAX (STAGGERED)
- EXTERIOR SHEATHING NAIL WITH 8d GALVANIZED BOX NAILS AT 6" OC EDGE NAILING, 12" OC FIELD NAILING
- FLOOR SHEATHING
- ROOF SHEATHING
- EDGE NAILING 8d ELECTRO GALVANIZED AT 6" OC
- FIELD NAILING 8d ELECTRO GALVANIZED AT 12" OC
- #10 STMS AT 24" OC OR 0.145# SHOT PIN AT 24" OC
- 16d AT 24" OC
- 16d NAIL AT 16" OC
- 16d BOX NAILS AT 6" OC
- 10 STMS AT 16" OC OR AEROSMITH AKN 0.144 DRIVE PIN AT 16" OC
- 8dx1 1/2" NAILS
- 1/4" DIAx2 1/2" EYE LAG SCREW AT 6'-0" OC (2" EMBEDMENT)
- #12x2" TYPE A HEX HEAD SCREWS WITH WASHERS TYPICAL FOR 3
- A35 CLIP BOTH SIDES OF BRACE TO TOP PLATE
- A34 CLIPS AT HEADER AND SILL TO FULL HEIGHT STUDS AND FULL HEIGHT STUDS TO TOP AND BOTTOM PLATES
- TUBE STEEL COLUMN (STR)
- ROOF BEAM OR HEADER (STR)
- FLOOR BEAM OR HEADER (STR)
- ROOF PURLIN (STR)
- 12 GA BRACE WIRES ATTACH TO EYE LAG SCREWS AND TO ROOF PURLINS AT 6'-0" OC. ENDS TO HAVE 4 TIGHT WRAPS IN 1 1/2" (STAGGERED)
- LAP JOINT
- IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
- 2" FLASHING A 03 11x756
- WATERPROOF MEMBRANE AC-FLS SS TB Date 10-2-2018
- EDGE NAIL AT FLOOR BEAM OR HEADER - #10x1 3/4" SELF TAPPING FLAT HEAD SCREWS AT 6" OC
- EDGE NAIL 16d BOX NAIL AT 24" OC
- SEALANT TYP (SEE SPECS)
- 2"x4" FLAT NAILER WITH 6d BOX NAIL AT 16" OC
- 2"x4" STUD WITH 5/8" TYPE 'X' GYP BOARD BOTH SIDES TO ROOF. TRIM TO CLEAR PURLINS/BRACE, CAULK AT ROOF
- STC WITH 2-8d TOP PLATE AND 1-8d IN SLOT
- STC BENT FLAT WITH 2-8d TO TOP WALL PLATE AND 1-8d IN SLOT AT 48" OC ALTERNATE SIDES
- 2"x4" FLAT WITH 2-#12x2" STS EACH PURLIN
- 2"x4" FLAT WITH 3-6d BOX NAIL TO ROOF SHEATHING
- 2"x4" FLAT BRACE WITH 2-#12x2" STS EACH END AT 48" OC

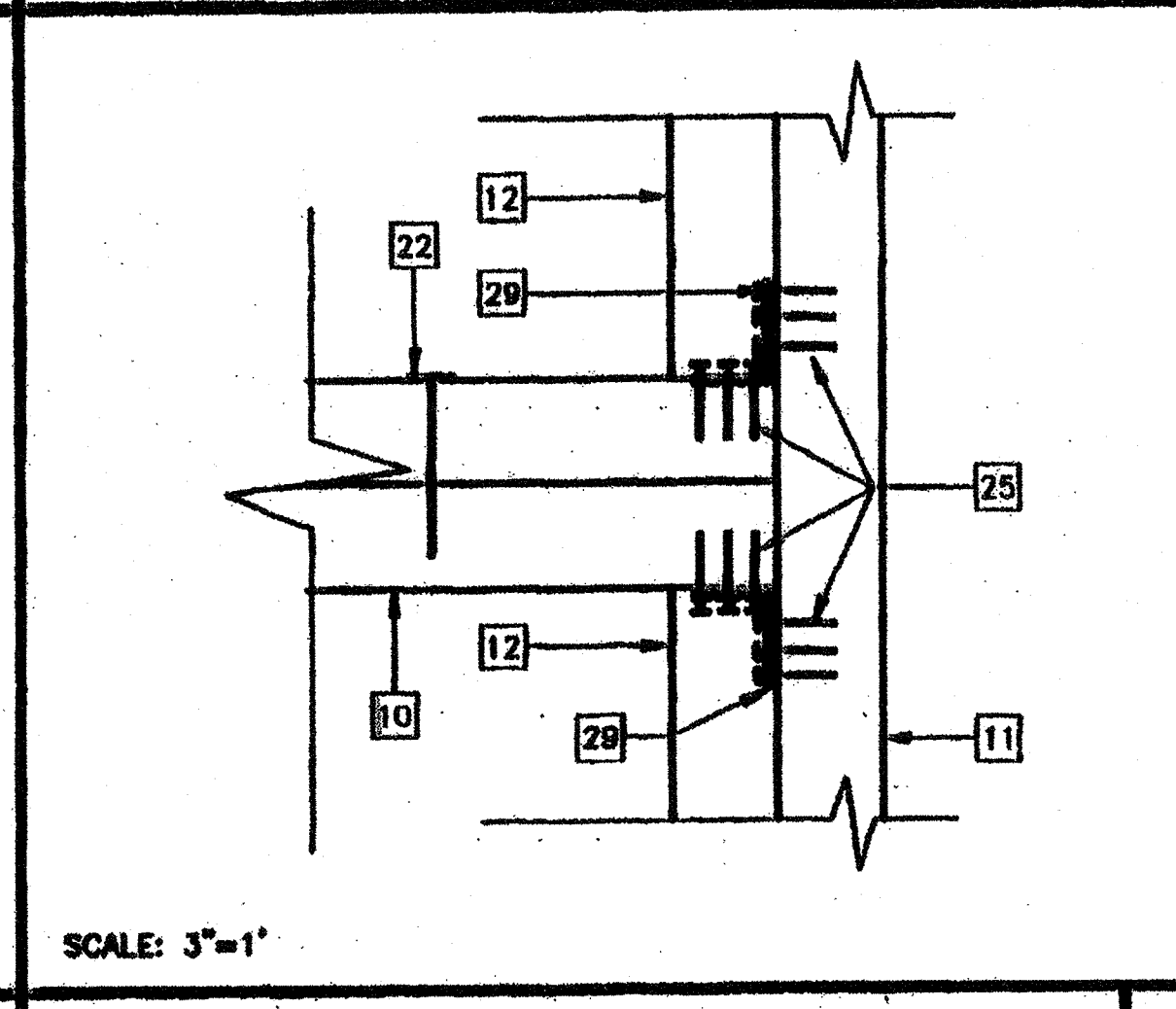
### ROUGH OPENING SCHEDULE 13



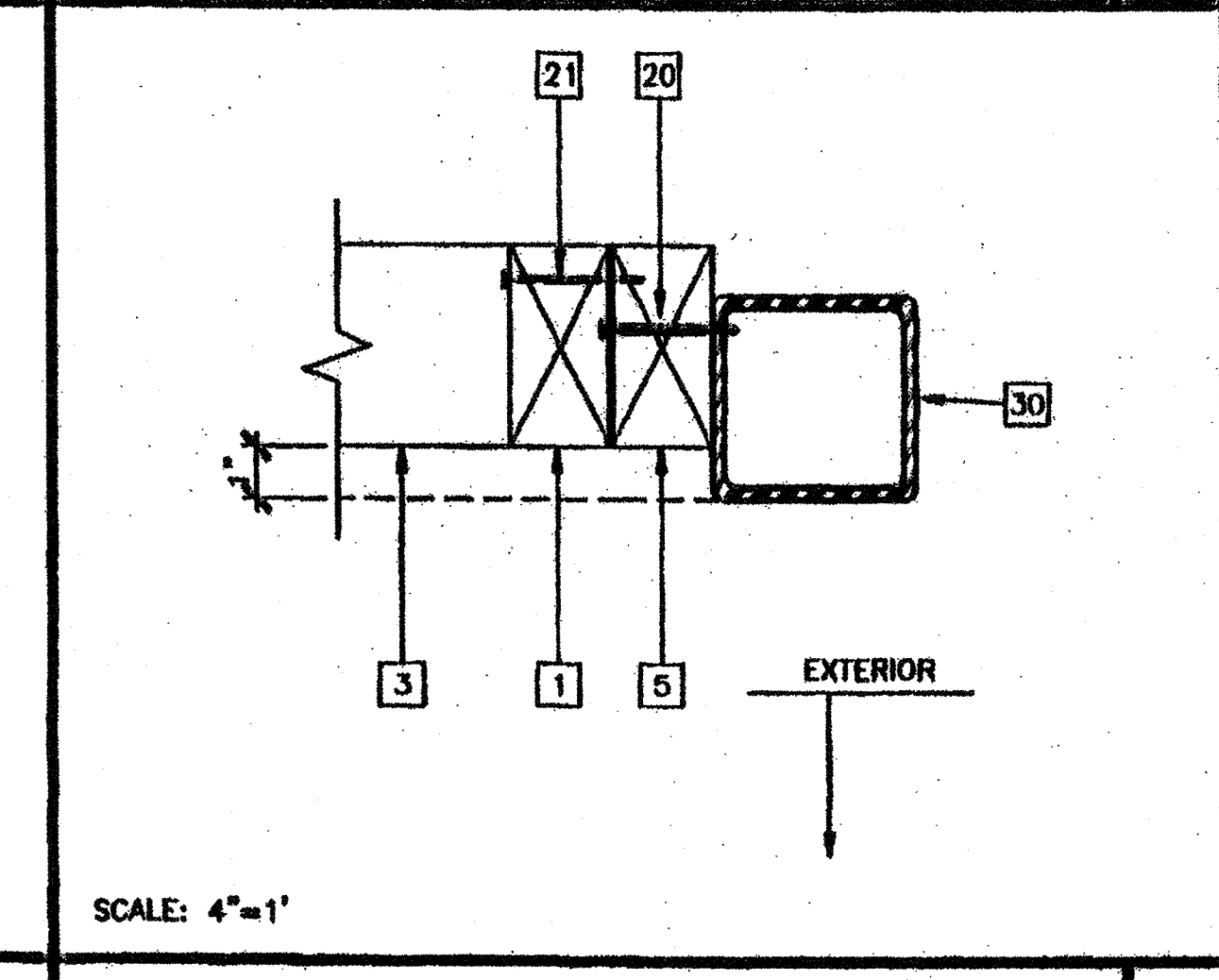
### SECTION AT STUD 9



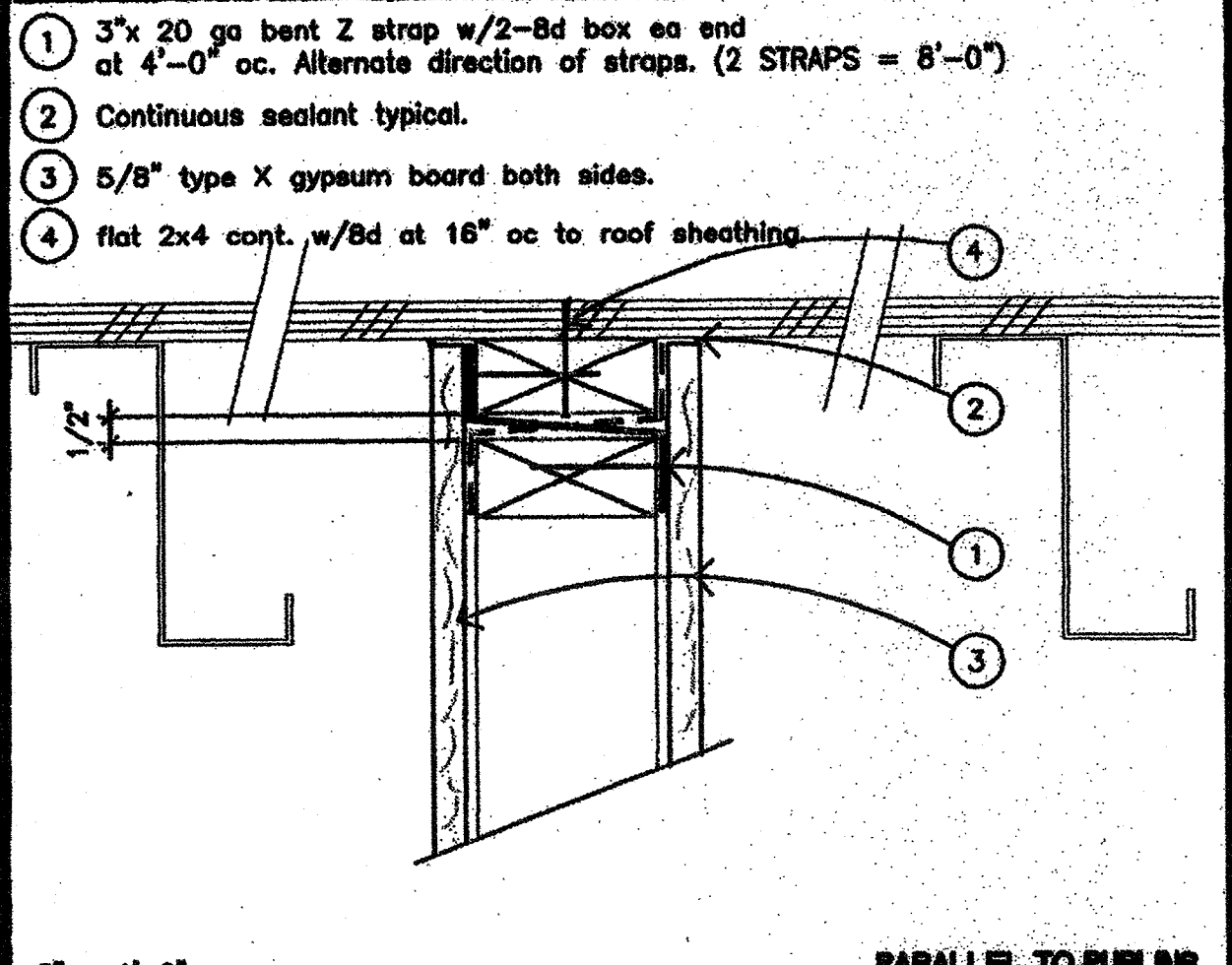
### HEADER AT JAMB 5



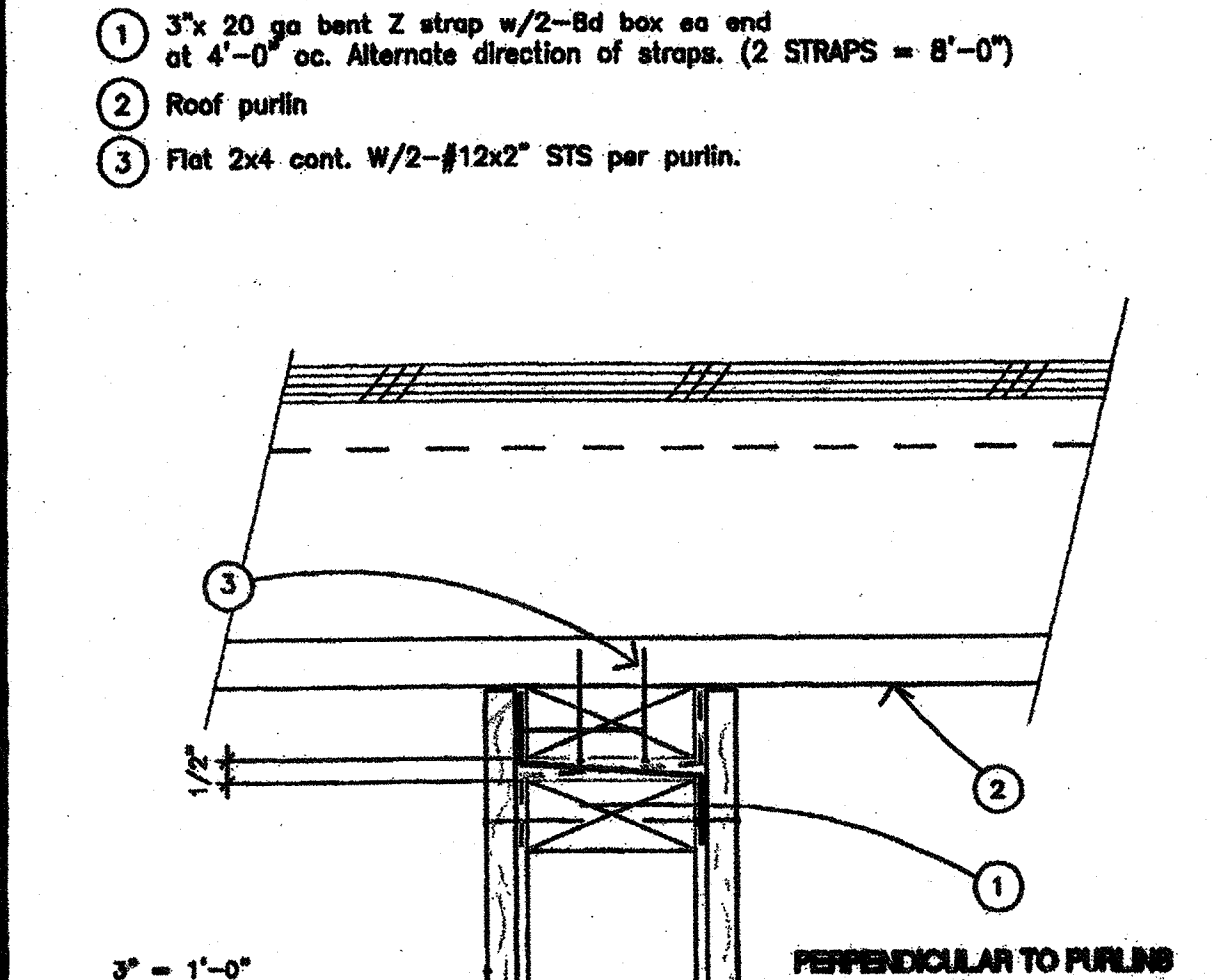
### COLUMN AT END WALL 1



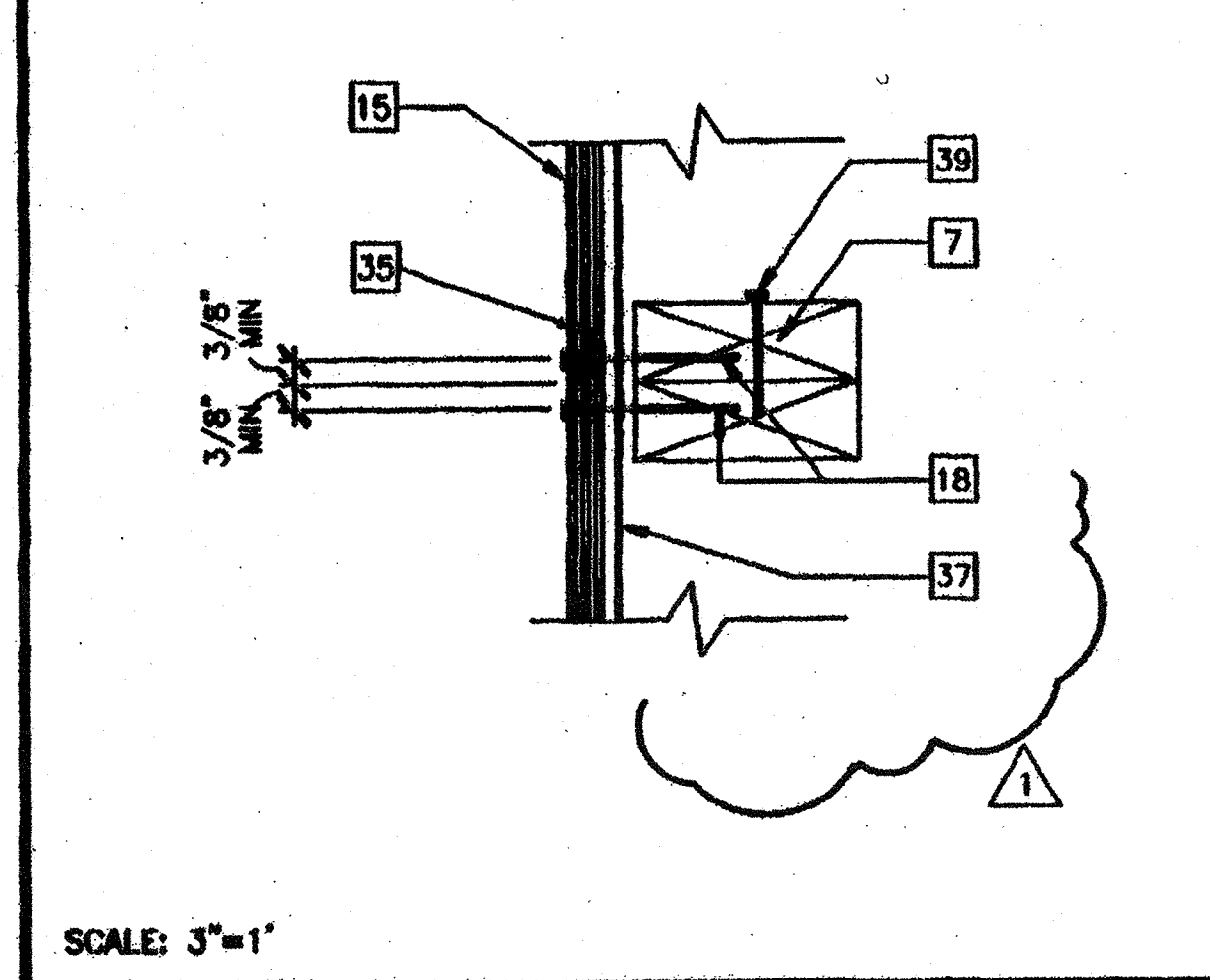
### PERPENDICULAR (RATED 16/A6.21) 14



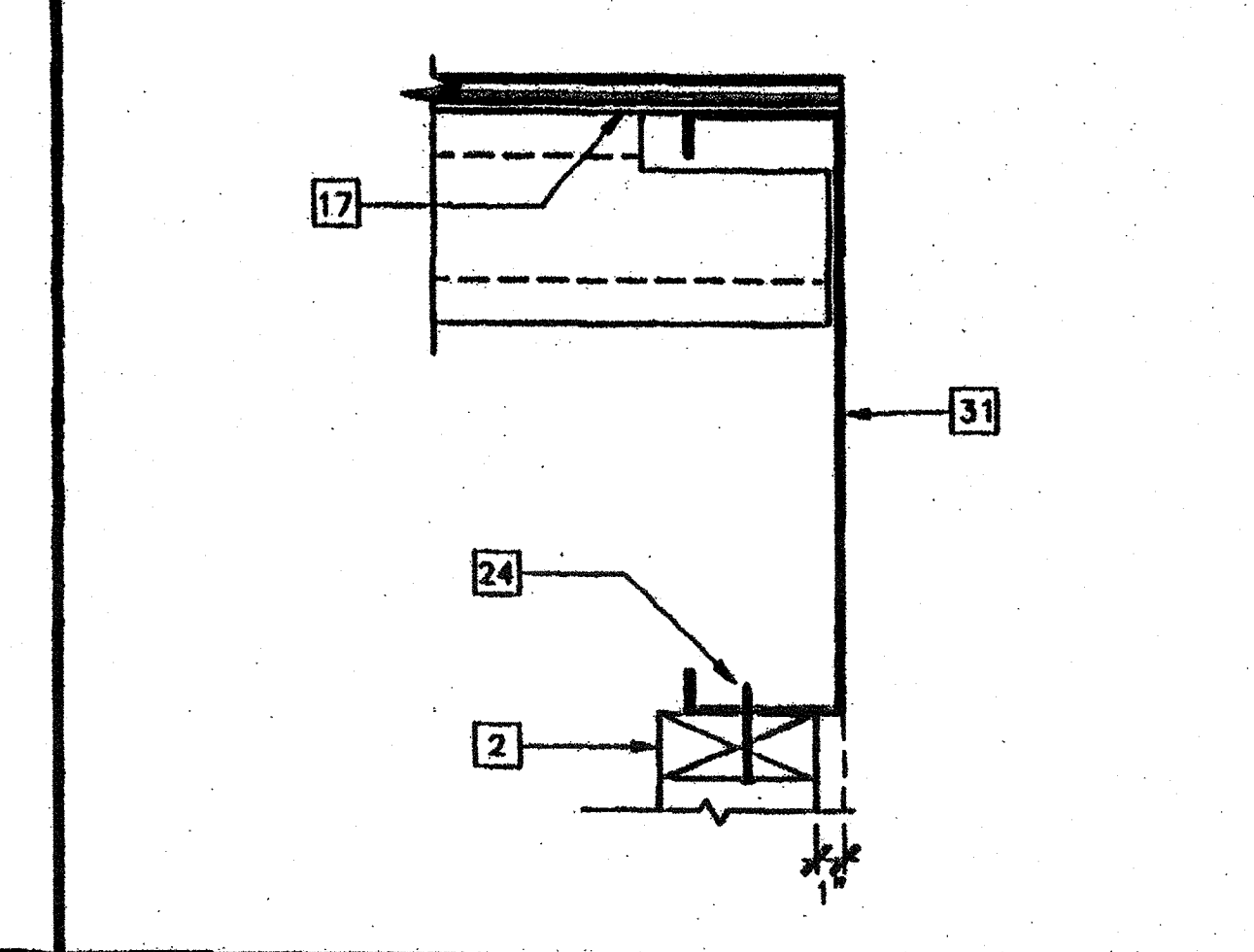
### INTERIOR PARTITION PARALLEL 10



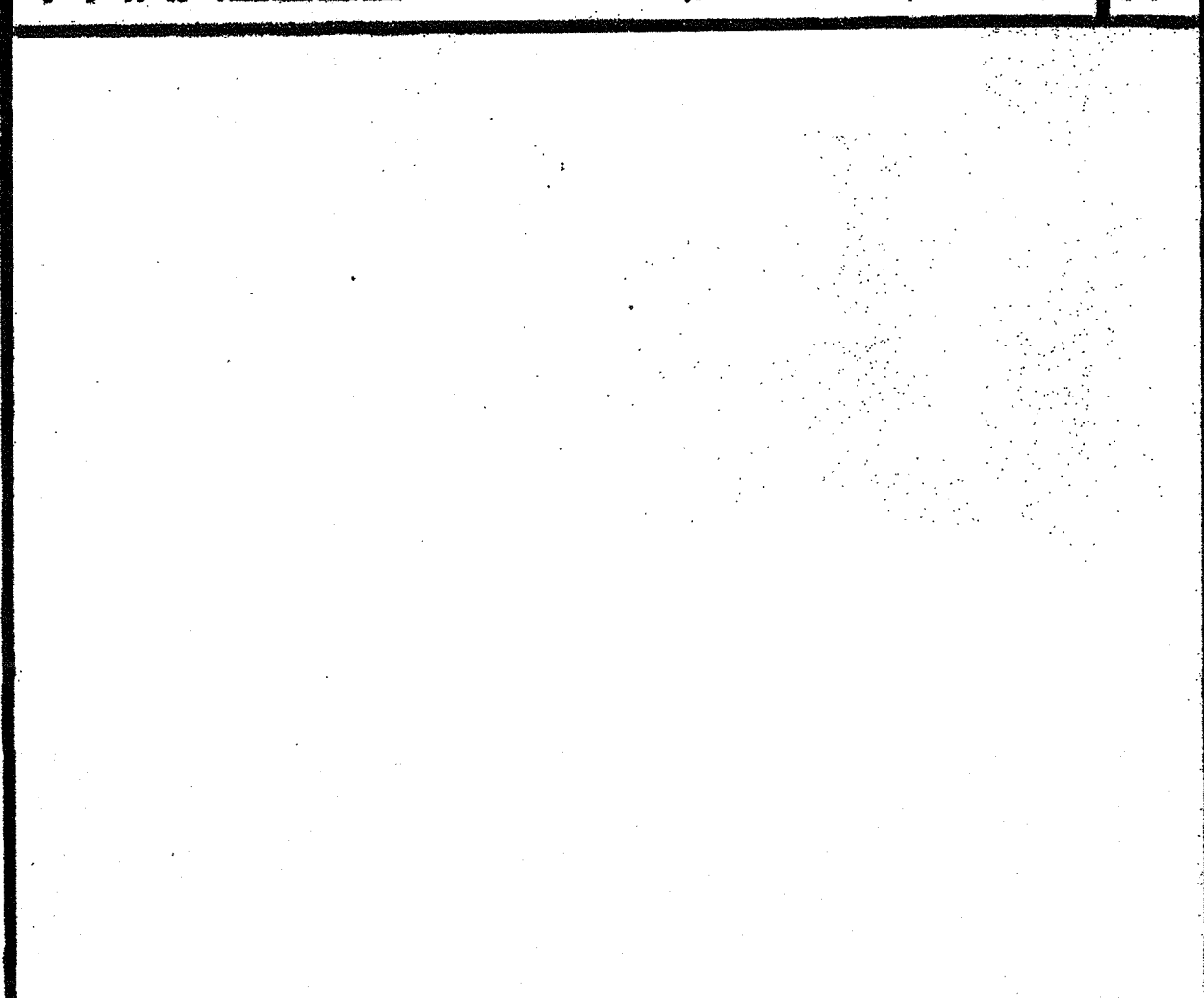
### WINDOW SILL AT JAMB 6



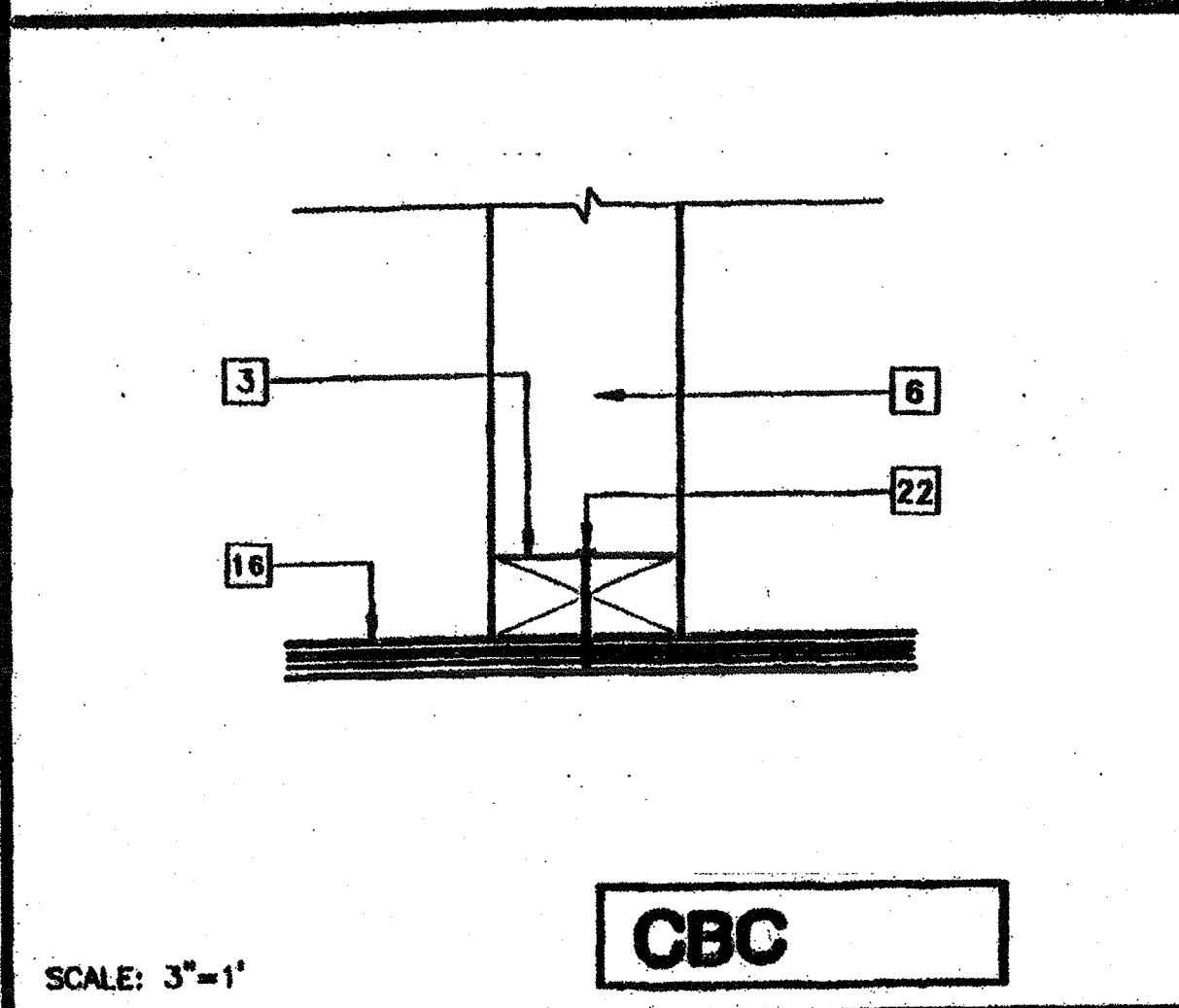
### COLUMN AT SIDE WALL 2



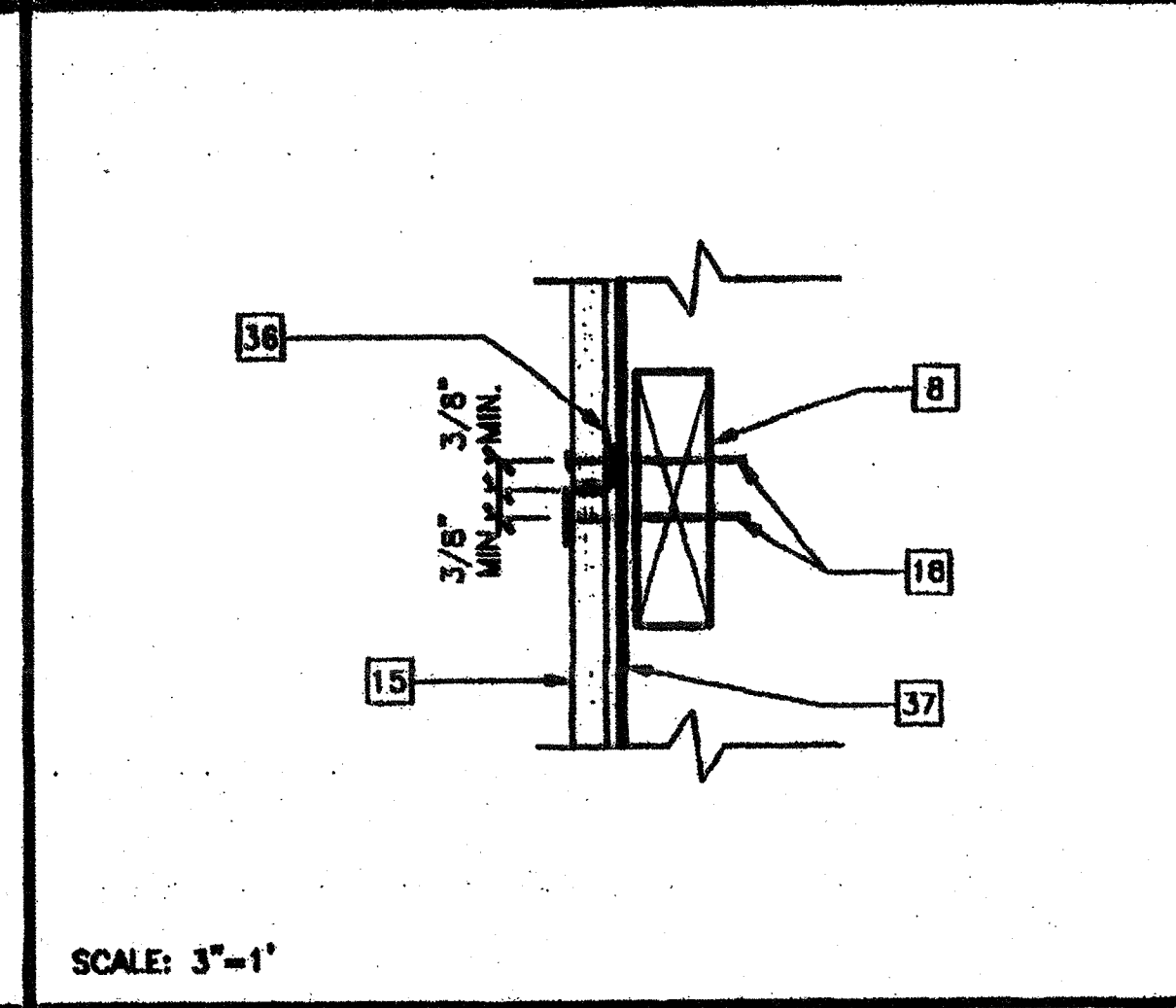
### PARALLEL (RATED 16/A6.21) 15



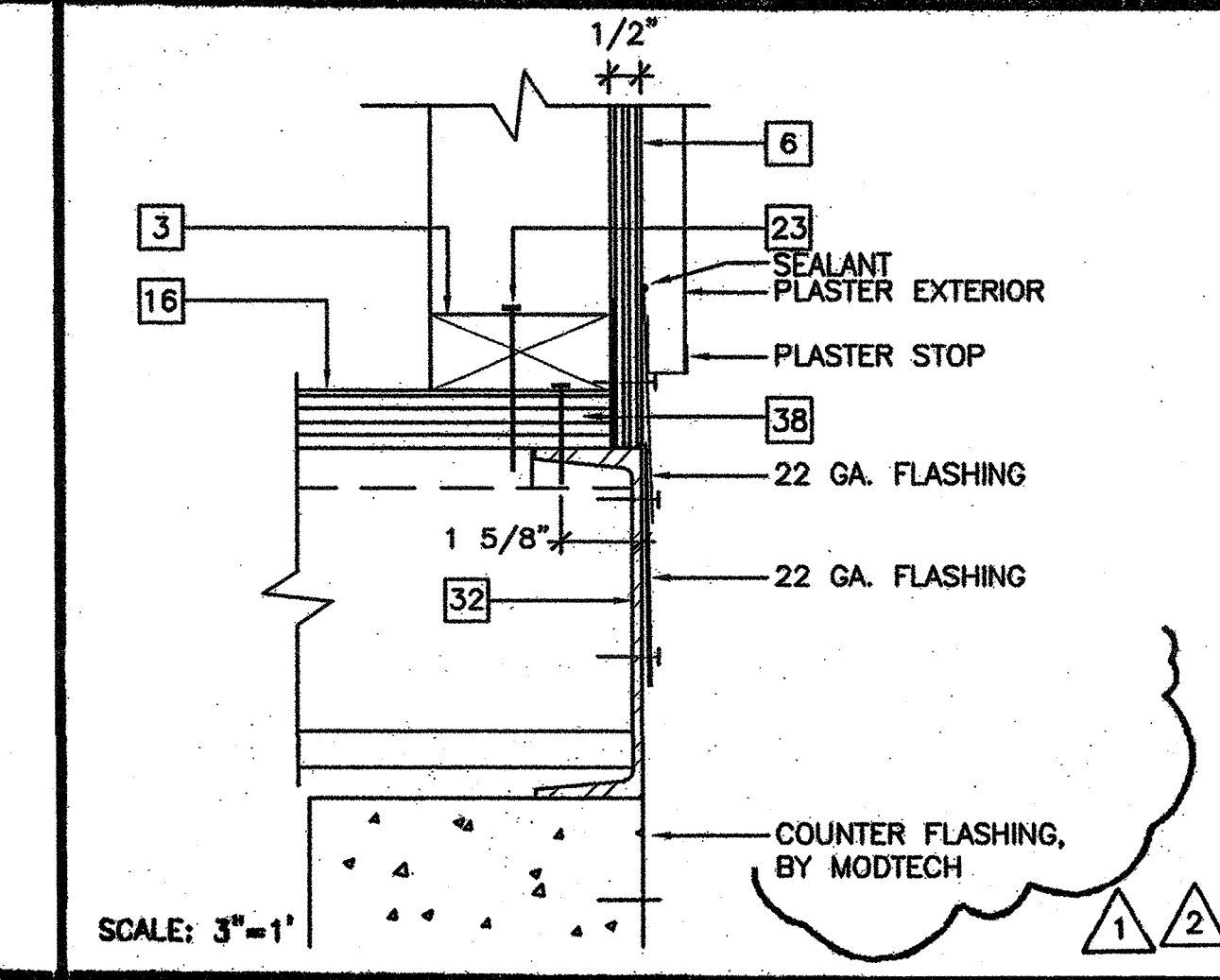
### INTERIOR PARTITION PERPENDICULAR 11



### VERTICAL PLYWOOD JOINT 7



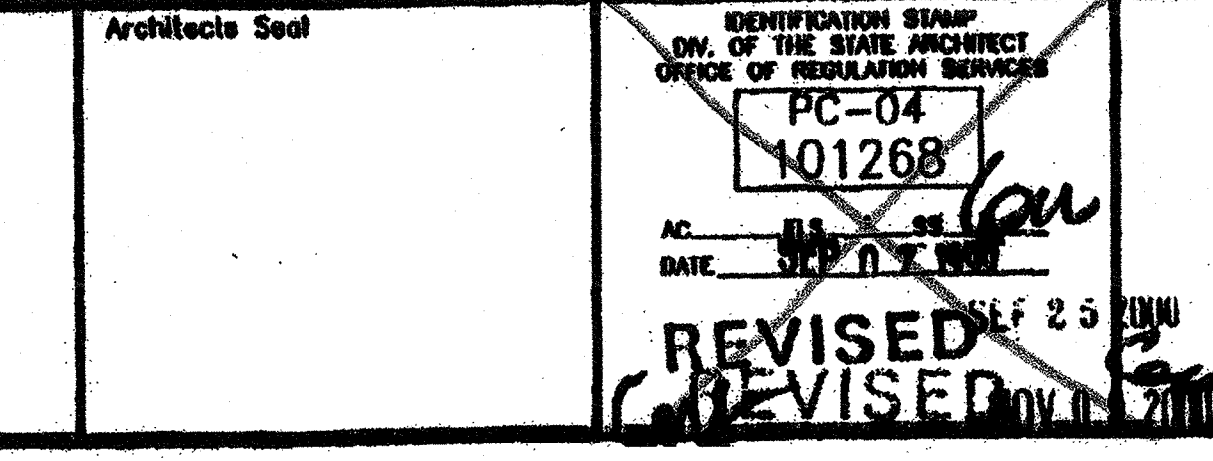
### TOP PLATE AT ROOF BEAM 3



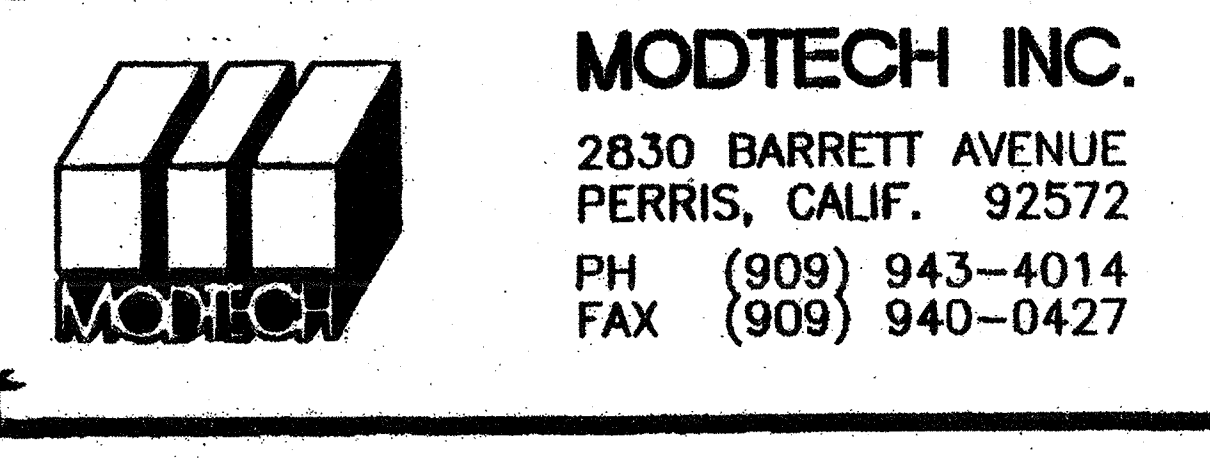
### ROUGH OPENING SCHEDULE 17

REVISIONS	DATE	DESCRIPTION
SP	9/21/00	MODTECH ENGINEERING CHANGE
SP	11/9/00	MODTECH ENGINEERING CHANGE
SP	11/22/00	REVISED DETAILS #10, 11
CM	3/15/02	ADDED ROUGH OPENING SIZES & REVISED DETAIL PER JOB #4094

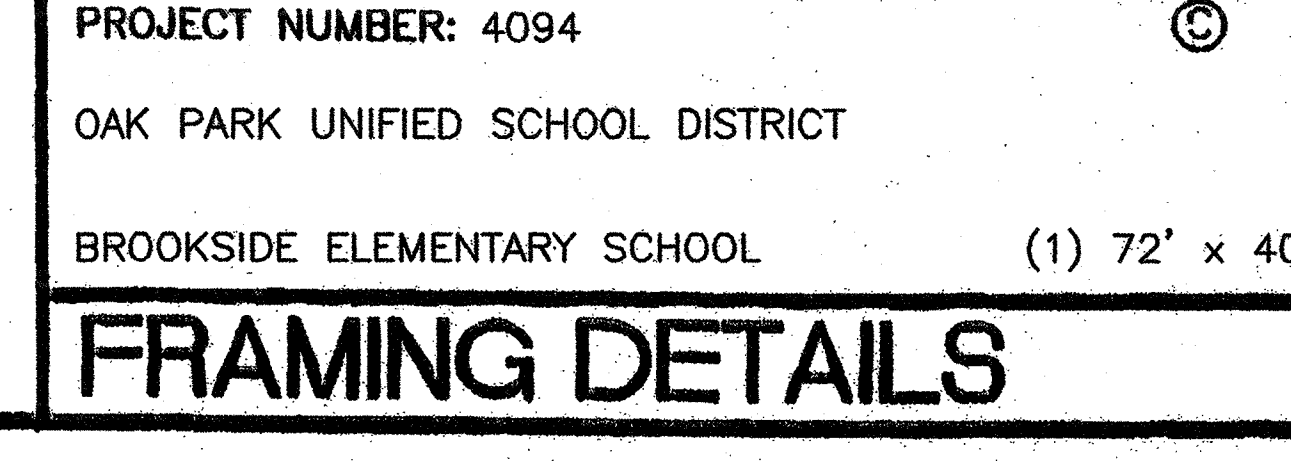
### PARTITION CONNECTION AT FLOOR 12



### HORIZONTAL PLYWOOD JOINT 8



### WALL SILL AT FLOOR 4



REVISIONS	DATE	DESCRIPTION
SP	9/21/00	MODTECH ENGINEERING CHANGE
SP	11/9/00	MODTECH ENGINEERING CHANGE
SP	11/22/00	REVISED DETAILS #10, 11
CM	3/15/02	ADDED ROUGH OPENING SIZES & REVISED DETAIL PER JOB #4094

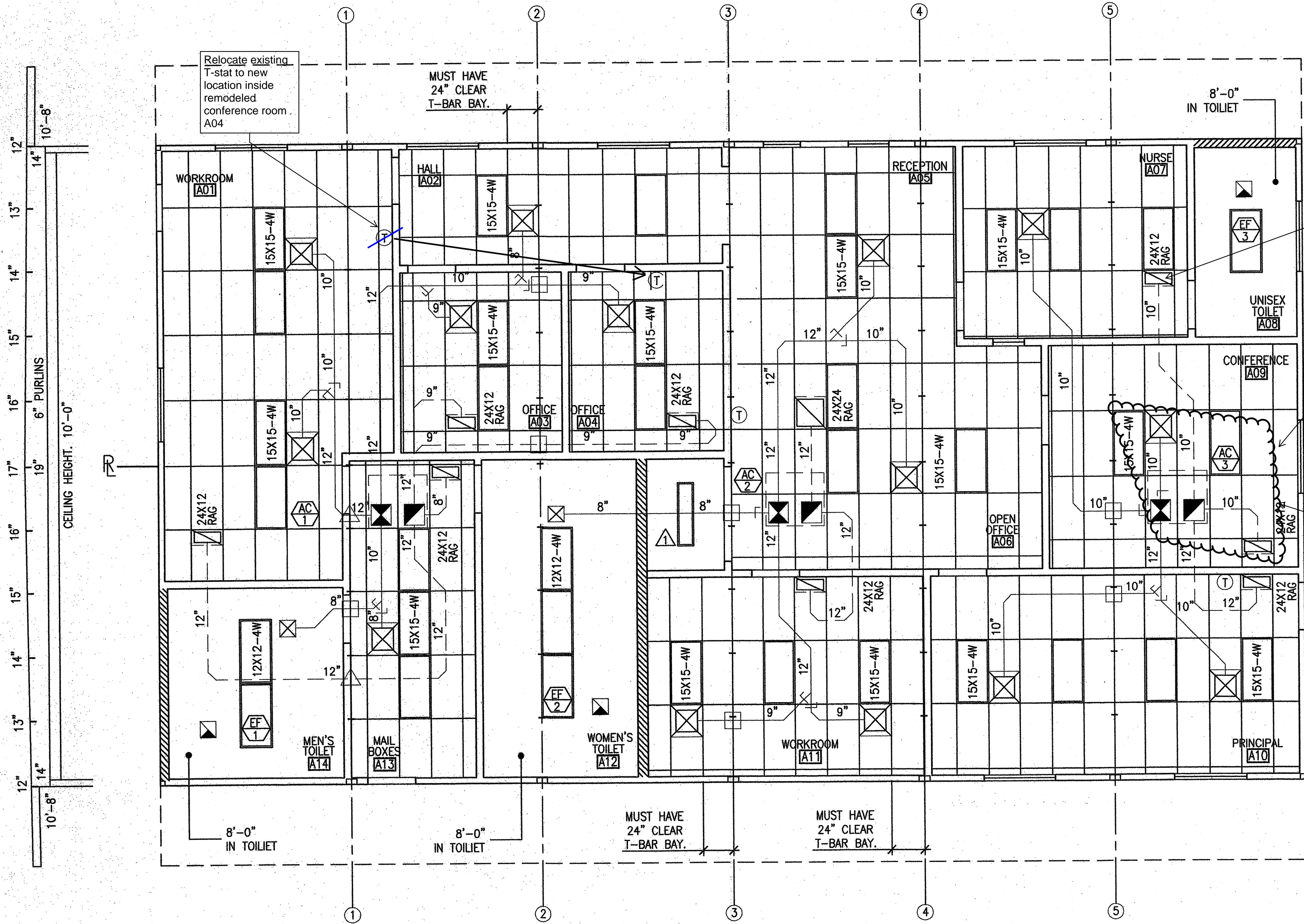
Electrical Engineer's Seal	Mechanical Engineer's Seal	Structural Engineer's Seal	Architect's Seal

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATORY SERVICES  
PC-04  
101268  
AC: [Signature]  
DATE: 10/2/2018

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

PROJECT NUMBER: 4094  
OAK PARK UNIFIED SCHOOL DISTRICT  
BROOKSIDE ELEMENTARY SCHOOL (1) 72' x 40' ADMINISTRATION BLDG.

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DRAWN BY: CM  
DATE: 3/1/02  
CHECKED BY: SW  
DATE: 1/5/2018  
**S4.02**



AIR CONDITIONING PLAN VIEW 72'X40' BUILDING  
TYP. OF 1 BUILDINGS. SCALE: 1/4" = 1'-0"

BUILT-UP ROOF  
10'-0" CEILING HT.

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
A 03 114756  
AC/FLS/SS/TB  
Date 102-2018

EQUIPMENT & MATERIAL SCHEDULE

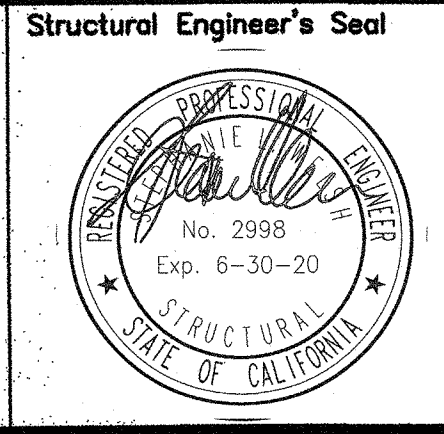
- AC 1 THRU AC 3 CARRIER MODEL# 48GS048090-3 PACKAGED GAS ELECTRIC  
47,000 BTUH COOLING, SEER = 10.00  
90,000 BTUH HEATING INPUT  
72,900 BTUH HEATING OUTPUT  
1600 CFM NOMINAL @.2" S.P., WT = 415 LBS.  
208/230V-1PH-60CY, MAX. F.L.A. = 30.7 AMPS.  
WITH ROOF CURB & FRESH AIR INTAKE
- EF 1, 2 NUTONE MODEL# QT-300 EXHAUST FAN  
300 CFM, LIGHT SWITCH OPERATED  
120V-1PH-60CY, OPER. WT.=18 LBS.
- EF 3 NUTONE MODEL# QT-200 EXHAUST FAN  
200 CFM, LIGHT SWITCH OPERATED  
120V-1PH-60CY, OPER. WT.=15 LBS.
- SUPPLY AIR PLENUMS: GALV. IRON SHEETS W/1" LINER INSULATION
- RETURN AIR PLENUMS: GALV. IRON SHEETS W/1" LINER INSULATION
- INTERIOR DUCTWORK: FLEX DUCT CLASS I UL-181
- REGISTER BOXES: GALV. IRON SHEETS W/ 1/2" LINER INSULATION
- SUPPLY AIR REGISTERS: METALAIRE '7650-6' SERIES
- RETURN AIR GRILLES: METALAIRE 'SPRTB-6' SERIES
- THERMOSTAT: WHITE RODGERS '1F90' SERIES
- ATTACH ALL SUPPLY AND RETURN AIR REGISTERS TO REGISTER BOXES WITH 4-#8x1/2" S.M.S. - ATTACH REGISTER BOX TO ROOF STRUCTURE WITH 2-1 1/2" GALV. STRAPS AT OPPOSITE CORNERS

LEGEND AND ABBREVIATIONS			
—	SUPPLY DUCT	→	DIRECTIONAL AIR FLOW
- - -	RETURN DUCT	↕	BAROMETRIC RELIEF DAMPER THRU WALL
12"	NUMBER INDICATES DUCT SIZE	UCD	UNDERCUT DOOR
□	RETURN REGISTER	⊙	BAROMETRIC RELIEF DAMPER THRU ROOF
□	RETURN REGISTER	⊕	THERMOSTAT
⊗	SUPPLY REGISTER	+	DAMPER
■	EXHAUST FAN	⊖	EQUIPMENT CALLOUT: TOP = EQUIPMENT TYPE BOTTOM = IDENTIFICATION
□	12"x12" HOLE THRU BEAM	E	ELECTRICAL LOCATION
△	16"x12" HOLE THRU BEAM	CD	CONDENSATE DRAIN
◆	FIRE DAMPER (12x12 AFD)	G	GAS LOCATION

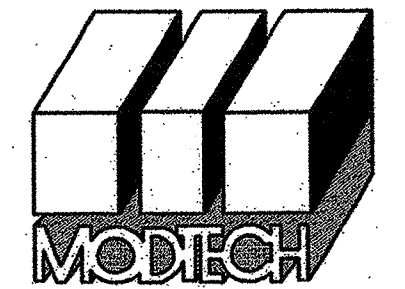
Hawaiian Air Corporation

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REVISIONS	Electrical Engineer's Seal	Mechanical Engineer's Seal	Structural Engineer's Seal	Architect's Seal
MG HVAC REVISED FROM P.C. PER JOB#4094				



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DIV. OF THE STATE ARCHITECT  
OFFICE OF REGULATION SERVICES  
AC/FLS/SS  
DATE



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

PROJECT NUMBER: 4094  
OAK PARK UNIFIED SCHOOL DISTRICT  
BROOKSIDE ELEMENTARY SCHOOL

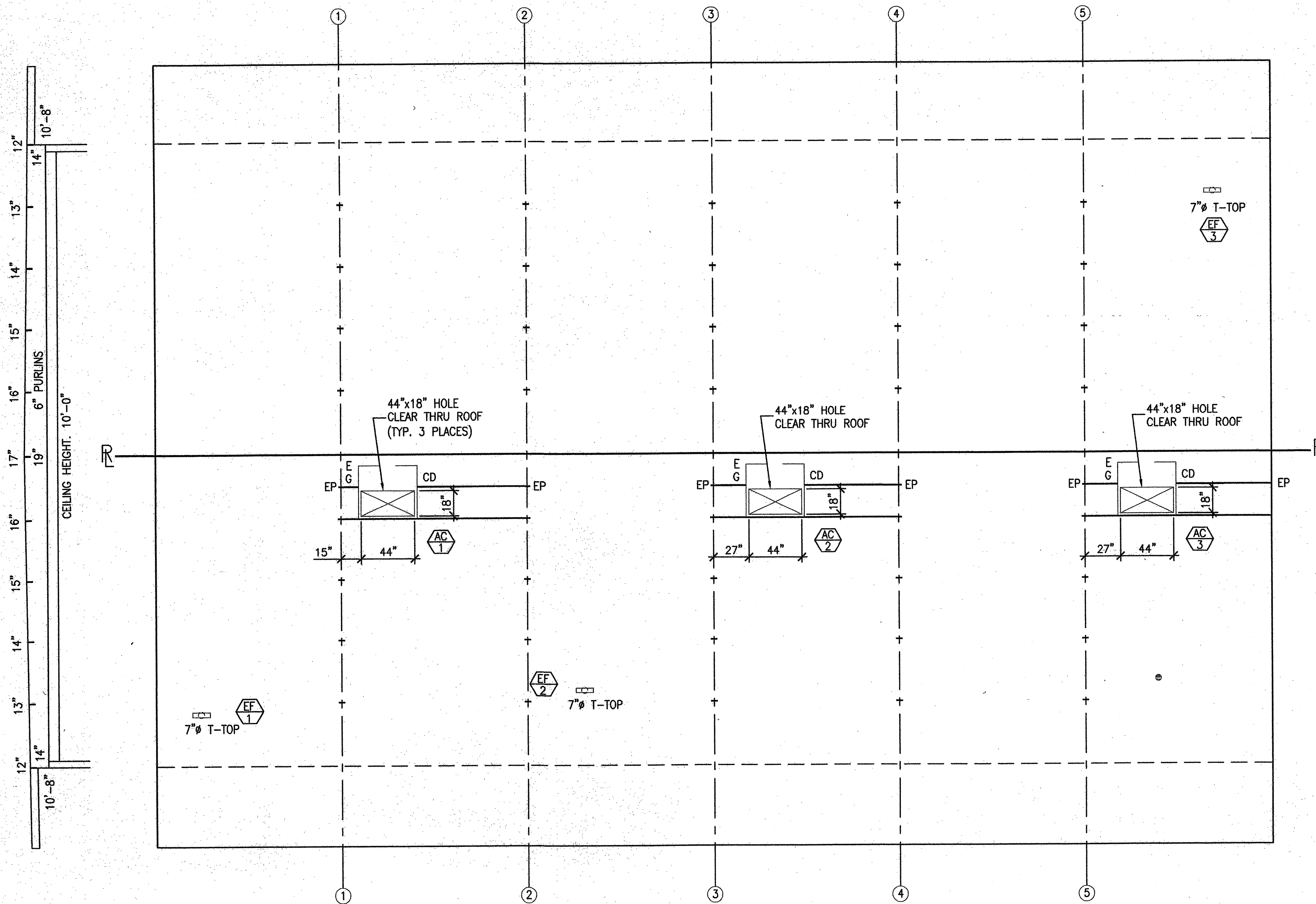
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DATE: 3/25/02  
CHECKED BY: SW  
DATE: 1/5/2018  
MODTECH Index No.

MECHANICAL (HVAC) PLAN

M1.01

FILE PATH: 4094-M1.01.DWG PROJECT NO. 4094 - OAK PARK UNIFIED SCHOOL DISTRICT - BROOKSIDE ELEMENTARY SCHOOL - (1)72'x40' ADMINISTRATION BLDG.



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 DIV. OF THE STATE ARCHITECT  
 A 03 118756  
 AC FLS SS TB  
 Date 10-2-2018

**EQUIPMENT & MATERIAL SCHEDULE**

- CARRIER MODEL# 48GS048090-3 PACKAGED GAS ELECTRIC  
 47,000 BTUH COOLING, SEER = 10.00  
 90,000 BTUH HEATING INPUT  
 72,900 BTUH HEATING OUTPUT  
 1600 CFM NOMINAL @ 2" S.P., WT. = 415 LBS.  
 208/230V-1PH-60CY, MAX. F.L.A. = 30.7 AMPS.  
 WITH ROOF CURB & FRESH AIR INTAKE
- NUTONE MODEL# QT-300 EXHAUST FAN  
 300 CFM, LIGHT SWITCH OPERATED  
 120V-1PH-60CY, OPER. WT.=18 LBS.
- NUTONE MODEL# QT-200 EXHAUST FAN  
 200 CFM, LIGHT SWITCH OPERATED  
 120V-1PH-60CY, OPER. WT.=15 LBS.
- SUPPLY AIR PLENUMS: GALV. IRON SHEETS W/1" LINER INSULATION
- RETURN AIR PLENUMS: GALV. IRON SHEETS W/1" LINER INSULATION
- INTERIOR DUCTWORK: FLEX DUCT CLASS I UL-181
- REGISTER BOXES: GALV. IRON SHEETS W/ 1/2" LINER INSULATION
- SUPPLY AIR REGISTERS: METALAIRE '7650-6' SERIES
- RETURN AIR GRILLES: METALAIRE 'SPRTB-6' SERIES
- THERMOSTAT: WHITE RODGERS '1F90' SERIES
- ATTACH ALL SUPPLY AND RETURN AIR REGISTERS TO REGISTER BOXES WITH 4-#8x1/2" S.M.S. - ATTACH REGISTER BOX TO ROOF STRUCTURE WITH 2-1 1/2" GALV. STRAPS AT OPPOSITE CORNERS

AIR CONDITIONING ROOF PLAN 72'X40' BUILDING  
 TYP. OF 1 BUILDINGS. SCALE: 1/4" = 1'-0"

LEGEND AND ABBREVIATIONS			
	SUPPLY DUCT		DIRECTIONAL AIR FLOW
	RETURN DUCT		BAROMETRIC RELIEF DAMPER THRU WALL
	NUMBER INDICATES DUCT SIZE		UNDERCUT DOOR
	RETURN REGISTER		BAROMETRIC RELIEF DAMPER THRU ROOF
	RETURN REGISTER		THERMOSTAT
	SUPPLY REGISTER		DAMPER
	EXHAUST FAN		EQUIPMENT CALLOUT: TOP = EQUIPMENT TYPE BOTTOM = IDENTIFICATION
	12"x12" HOLE THRU BEAM	E	ELECTRICAL LOCATION
	16"x12" HOLE THRU BEAM	CD	CONDENSATE DRAIN
	FIRE DAMPER (12x12 AFD)	G	GAS LOCATION

Hawaiian Air Corporation

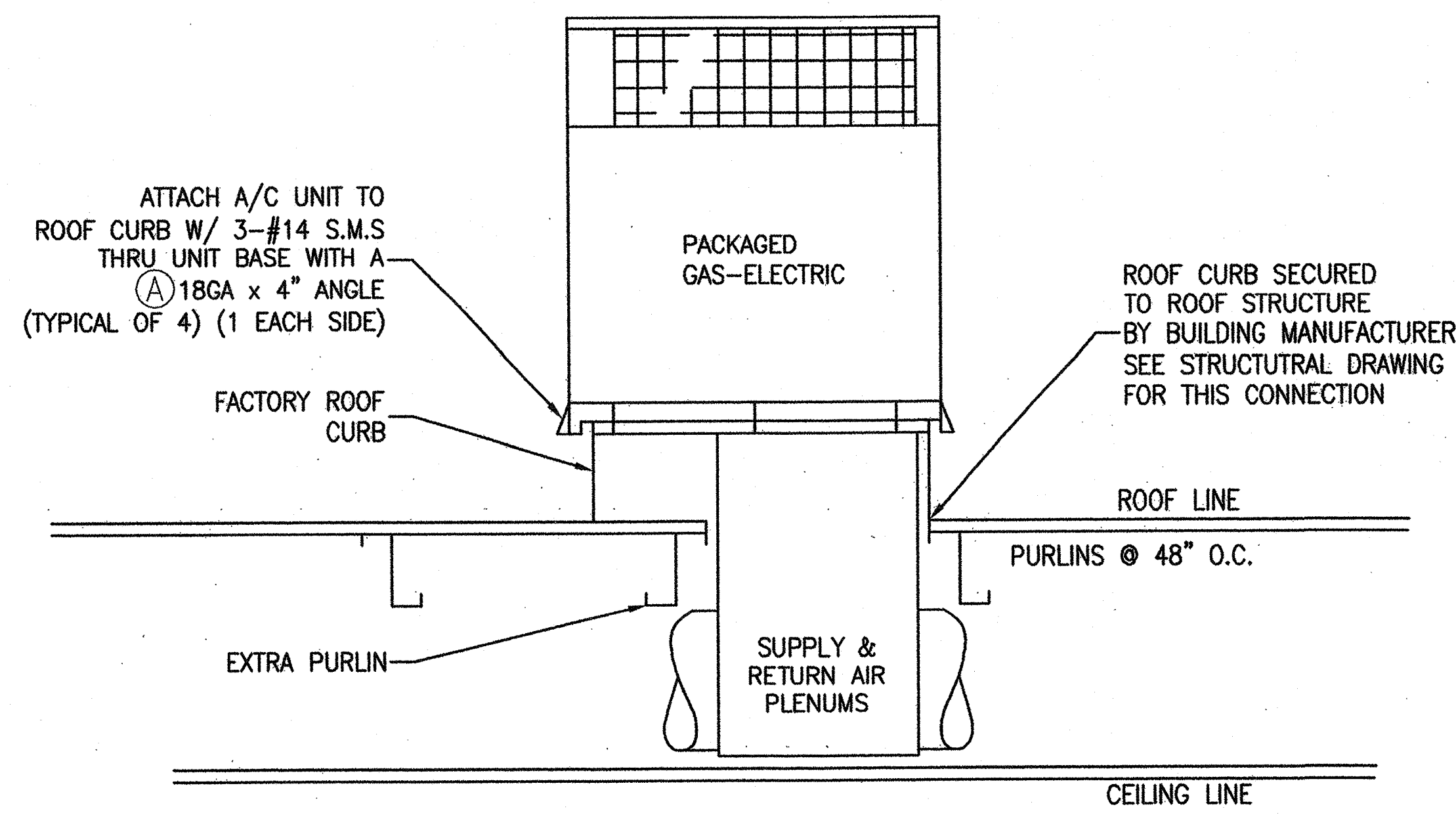
BUILT-UP ROOF  
 10'-0" CEILING HT.

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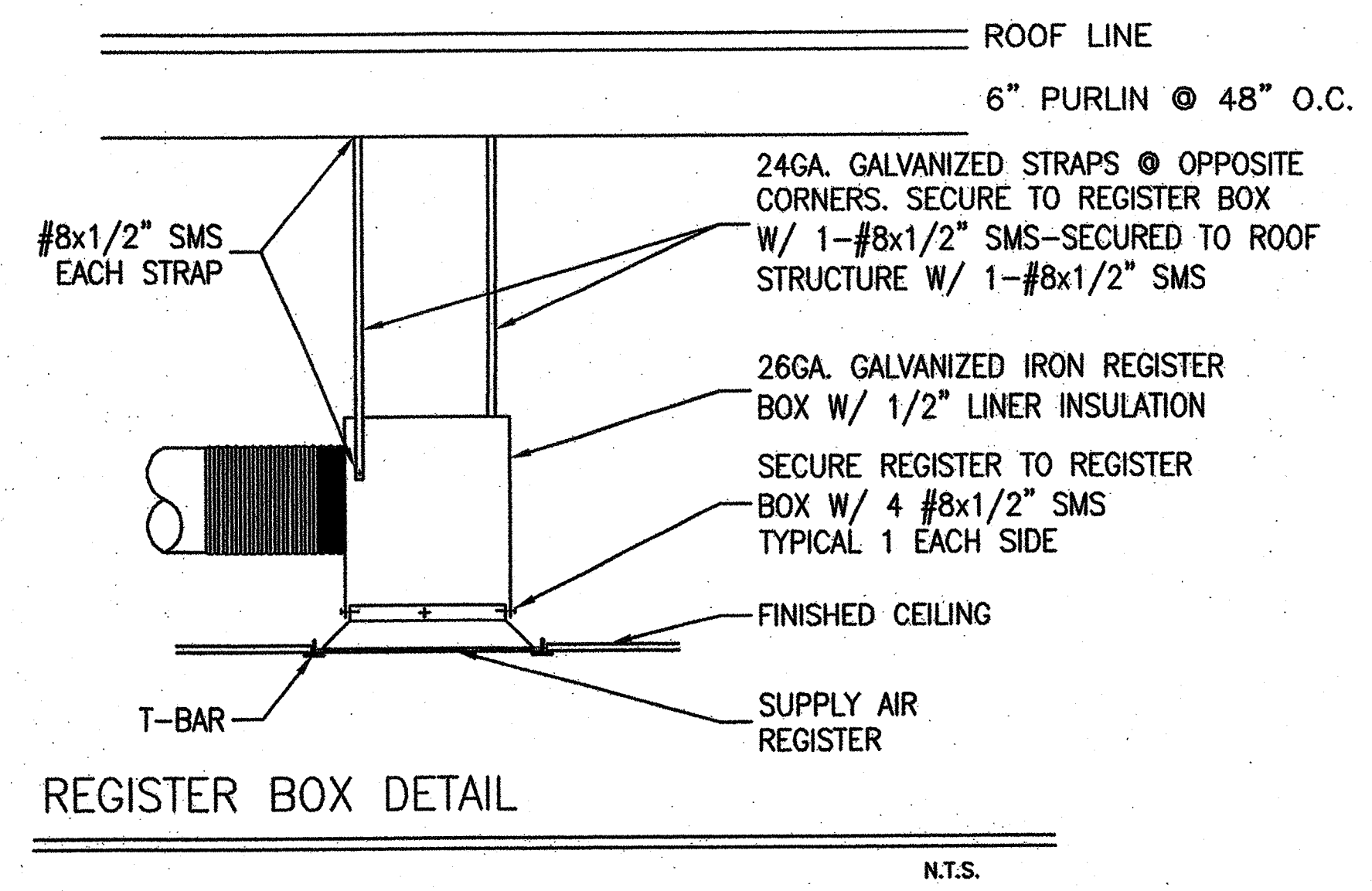
<b>REVISIONS</b> 	Electrical Engineer's Seal 	Mechanical Engineer's Seal 	Structural Engineer's Seal 	Architects Seal 	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES  AC FLS SS TB DATE	 <b>MODTECH INC.</b> 2830 BARRETT AVENUE PERRIS, CALIF. 92572 PH (909) 943-4014 FAX (909) 940-0427	PROJECT NUMBER: 4094 OAK PARK UNIFIED SCHOOL DISTRICT BROOKSIDE ELEMENTARY SCHOOL	© MODTECH, INC. 2001 DRAWN BY: GC DATE: 3/25/02 CHECKED BY: SW DATE: 1/5/2018 MODTECH Index No.
	<b>MECHANICAL (HVAC) PLAN</b>							<b>M1.02</b>

PROJECT NO. 4094 - OAK PARK UNIFIED SCHOOL DISTRICT - BROOKSIDE ELEMENTARY SCHOOL - (1)72'x40' ADMINISTRATION BLDG. FILE PATH: 4094-M1.02.DWG

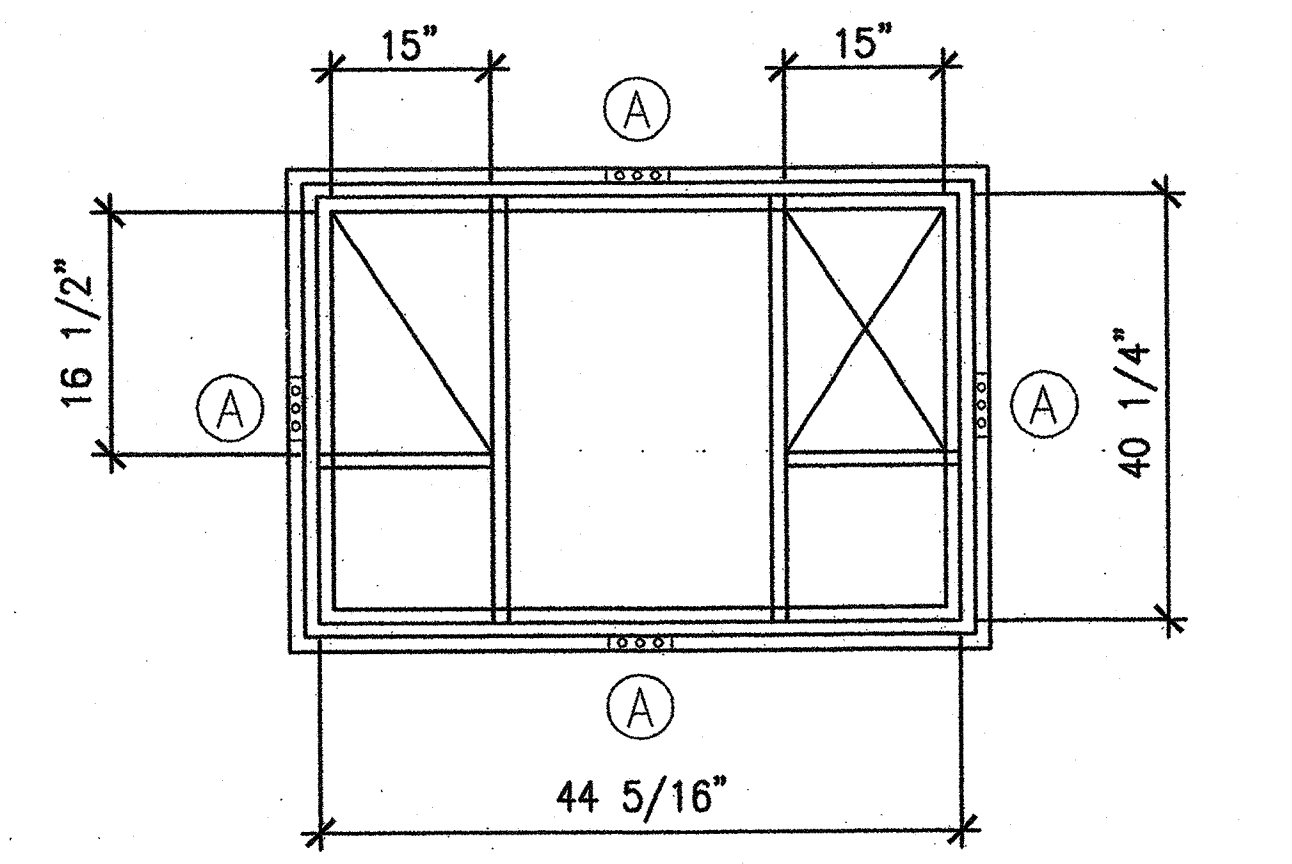




SECTION THRU ROOF TOP GAS ELECTRIC  
N.T.S.



REGISTER BOX DETAIL  
N.T.S.



GAS ELECTRIC CURB PLAN VIEW  
N.T.S.

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DIV. OF THE STATE ARCHITECT  
A 03 118756  
AC FLS SS TB  
Date 102-2018

EQUIPMENT & MATERIAL SCHEDULE

- THRU CARRIER MODEL# 48GS048090-3 PACKAGED GAS ELECTRIC  
47,000 BTUH COOLING, SEER = 10.00  
90,000 BTUH HEATING INPUT  
72,900 BTUH HEATING OUTPUT  
1600 CFM NOMINAL @.2" S.P., WT. = 415 LBS.  
208/230V-1PH-60CY, MAX. F.L.A. = 30.7 AMPS.  
WITH ROOF CURB & FRESH AIR INTAKE
- EF NUTONE MODEL# QT-300 EXHAUST FAN  
300 CFM, LIGHT SWITCH OPERATED  
120V-1PH-60CY, OPER. WT.=18 LBS.
- EF NUTONE MODEL# QT-200 EXHAUST FAN  
200 CFM, LIGHT SWITCH OPERATED  
120V-1PH-60CY, OPER. WT.=15 LBS.

SUPPLY AIR PLENUMS: GALV. IRON SHEETS W/1" LINER INSULATION  
RETURN AIR PLENUMS: GALV. IRON SHEETS W/1" LINER INSULATION  
INTERIOR DUCTWORK: FLEX DUCT CLASS 1 UL-181  
REGISTER BOXES: GALV. IRON SHEETS W/ 1/2" LINER INSULATION  
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RETURN AIR GRILLES: METALAIRE 'SPRTB-6' SERIES  
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ATTACH ALL SUPPLY AND RETURN AIR REGISTERS TO REGISTER BOXES WITH 4-#8x1/2" S.M.S. - ATTACH REGISTER BOX TO ROOF STRUCTURE WITH 2-1 1/2" GALV. STRAPS AT OPPOSITE CORNERS

LEGEND AND ABBREVIATIONS			
—	SUPPLY DUCT	↔	DIRECTIONAL AIR FLOW
- - -	RETURN DUCT	↔	BAROMETRIC RELIEF DAMPER THRU WALL
12"	NUMBER INDICATES DUCT SIZE	↔	UNDERCUT DOOR
□	RETURN REGISTER	UCD	UNDERCUT DOOR
□	RETURN REGISTER	(R)	BAROMETRIC RELIEF DAMPER THRU ROOF
□	SUPPLY REGISTER	(T)	THERMOSTAT
□	EXHAUST FAN	+	DAMPER
□	12"x12" HOLE THRU BEAM	⊞	EQUIPMENT CALLOUT: TOP = EQUIPMENT TYPE BOTTOM = IDENTIFICATION
△	16"x12" HOLE THRU BEAM	E	ELECTRICAL LOCATION
◆	FIRE DAMPER (12x12 AFD)	CD	CONDENSATE DRAIN
		G	GAS LOCATION

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REVISIONS	Electrical Engineer's Seal	Mechanical Engineer's Seal	Structural Engineer's Seal	Architects Seal
1				
2				
3				
4				
5				

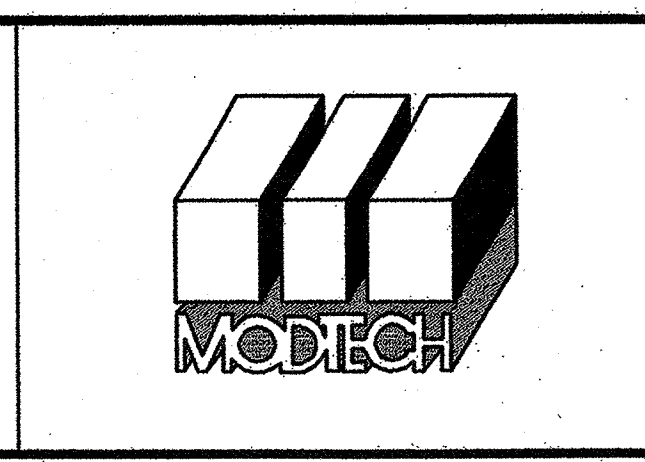
Electrical Engineer's Seal

Mechanical Engineer's Seal

Structural Engineer's Seal

Architects Seal

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AC FLS SS TB  
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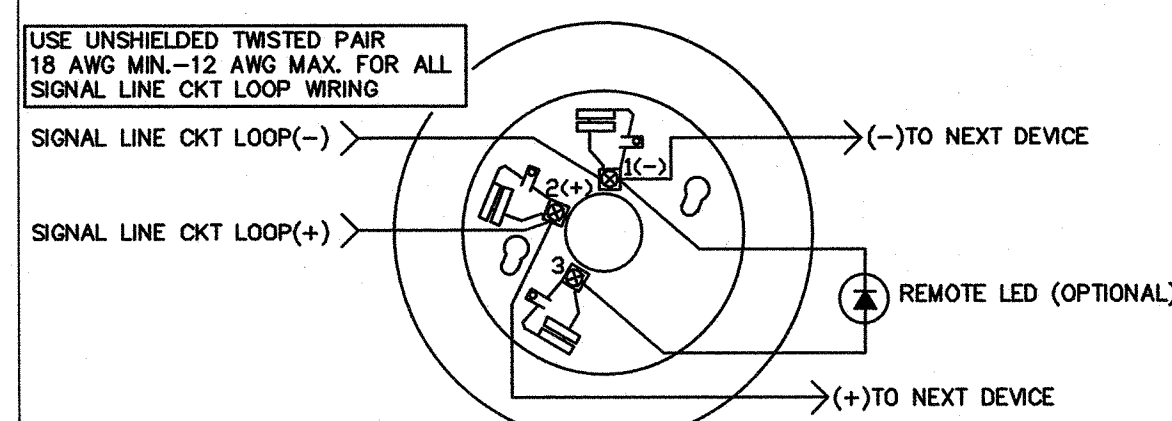
PROJECT NUMBER: 4094  
OAK PARK UNIFIED SCHOOL DISTRICT  
BROOKSIDE ELEMENTARY SCHOOL

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DATE: 1/5/2018  
MODTECH Index No.

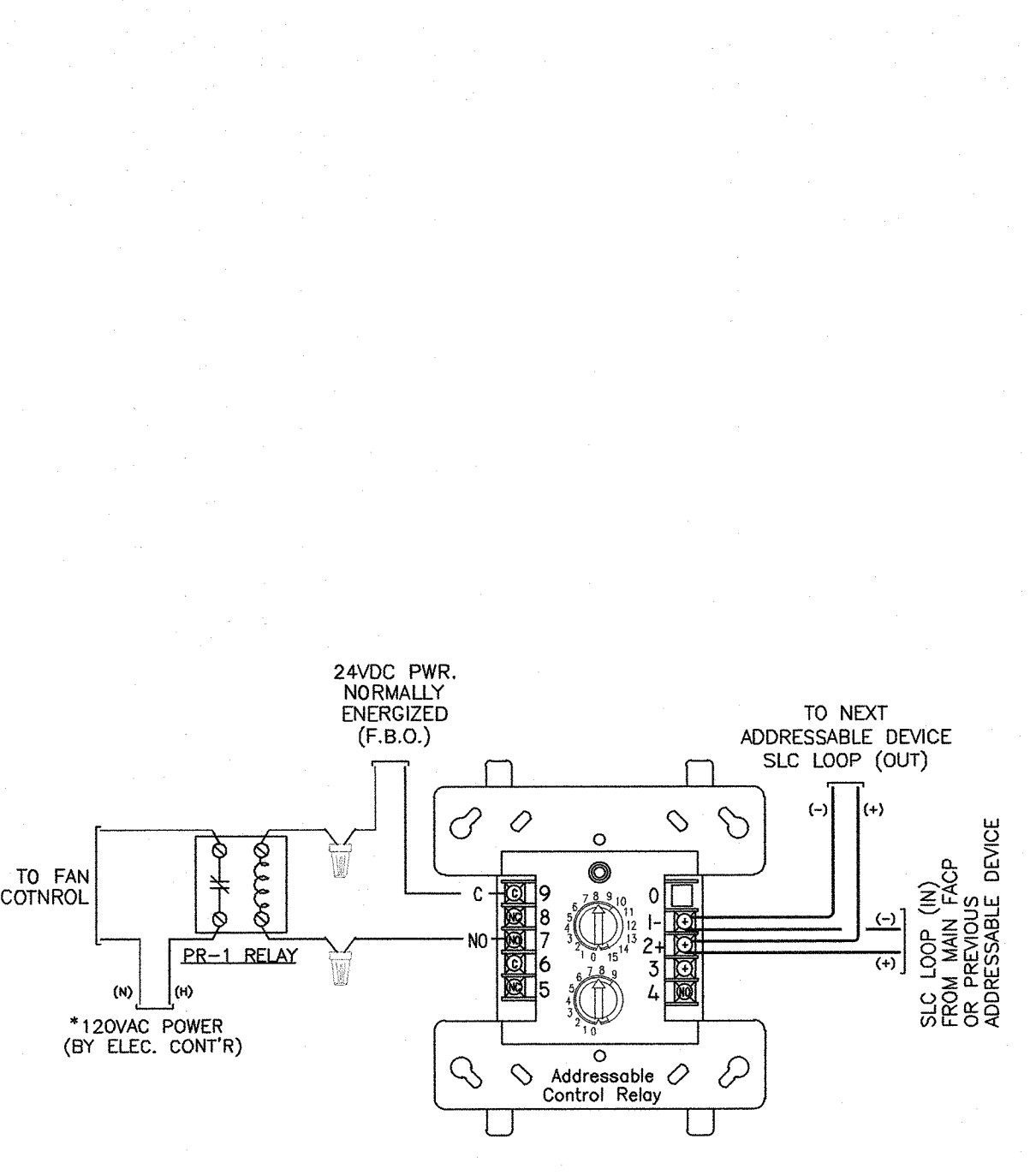
M1.03

MECHANICAL (HVAC) PLAN

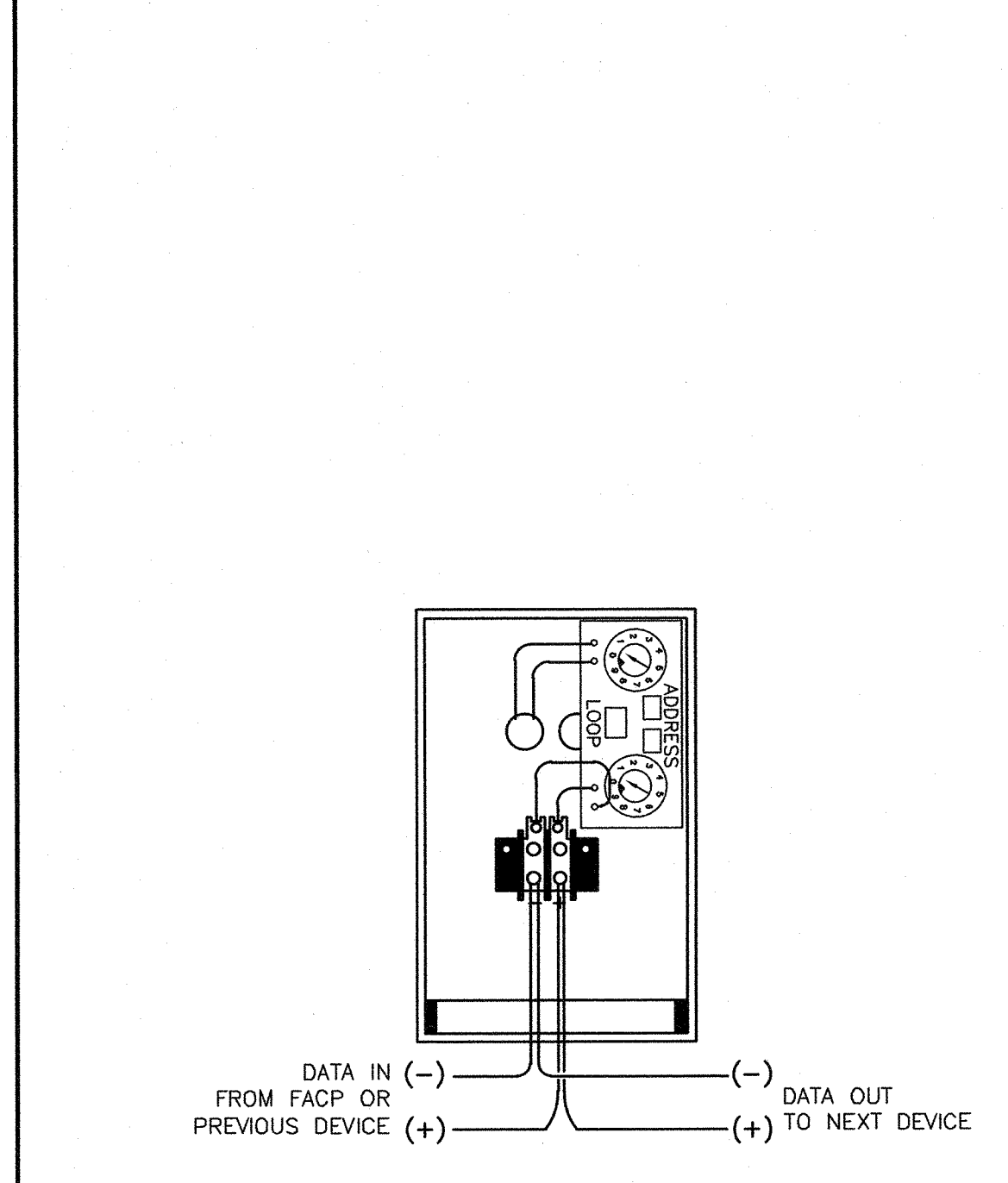
PROJECT NO. 4094 - OAK PARK UNIFIED SCHOOL DISTRICT - BROOKSIDE ELEMENTARY SCHOOL - (1)72'x40' ADMINISTRATION BLDG. FILE PATH: 4094-M1.03.DWG



SMOKE DETECTOR WIRING / MONITOR



HVAC UNIT SHUTDOWN WIRING



MANUAL PULL STATION WIRING

FIRE ALARM EQUIPMENT SCHEDULE AND SYMBOL LIST

ITEM DESCRIPTION	SYMBOL	MOUNTING	CATALOG NUMBER	CSFM LISTING NUMBER	NOTES
EXISTING FIRE ALARM CONTROL PANEL 'FACP'	[Symbol]	+72" A.F.F. TO TOP OF CAB.	NOTIFIER NFS-640	7165-0020 0243	A #03-113415
DIGITAL AUDIO AMPLIFIER (50W, 70V RMS)	[Symbol]	MOUNTS IN MAIN FACP CABINET	NOTIFIER DAA-502SE	7300-0020 0243	
FIRE ALARM REMOTE ANNUNCIATOR PANEL 'FAAP'	[Symbol]	+66" A.F.F. TO TOP OF CABINET	NOTIFIER LCD2-80	7120-0020 0156	
ADDRESSABLE MANUAL PULL STATION ON FLUSH WALL MOUNTED OUTLET BOX	[Symbol]	+48" A.F.F. TO CENTER	NOTIFIER NBG-12LX	7150-0020 0199	
ADDRESSABLE PHOTO SMOKE DETECTOR ON FLUSH MOUNTED OUTLET BOX	[Symbol]	CEILING	NOTIFIER FSP-851 W/B210LP BASE	7272-0020 0206	
ADDRESSABLE HIGH-TEMP HEAT DETECTOR ON SURFACE MOUNTED OUTLET BOX	[Symbol]	CEILING ATTIC SPACE	NOTIFIER FST-851H(A) W/B210LP BASE	7270-0020 0196	
WEATHERPROOF 1-WATT SPEAKER/STROBE FLUSH WALL MOUNTED WEATHER PROOF BOX	[Symbol]	90° AFF TO TOP	SYSTEM SENSOR MODEL-SPRK	7320-1653 0201	
FIRE ALARM 0.5-WATT SPEAKER/STROBE FLUSH WALL MOUNTED ON OUTLET BOX. (#CD DENOTES CANDELA)	[Symbol]	+80"-96" AFF TO BOTTOM OF LENS	SYSTEM SENSOR MODEL-SPSCR	7320-1653 0201	

FIRE ALARM SYSTEM NOTES

**FIRE ALARM COMPLETE PLAN SUBMITTAL**

1.0 PROJECT INFORMATION

A. OCCUPANCY GROUP  
REFER TO ARCHITECTURAL DRAWINGS.

B. CONSTRUCTION TYPE  
REFER TO ARCHITECTURAL DRAWINGS.

C. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, PART 2, CHAPTER 7, TITLE 24. REFER TO THE ARCHITECTURAL PLANS FOR FIRE-RATE CORRIDORS, OCCUPANCY SEPARATIONS AND AREA SEPARATION WALLS.

D. UPON COMPLETION OF SYSTEM INSTALLATION, THE SYSTEM SHALL BE TESTED IN THE PRESENCE OF AND IN A MANNER ACCEPTABLE TO THE ENFORCING AGENCY.

E. PROVIDE A STATEMENT OF COMPLIANCE WHEN REQUESTING INSPECTION OF THE SYSTEM.

F. THE FIRE ALARM SYSTEM DESIGN FOR THIS PROJECT IS ADDRESSABLE AND FULLY AUTOMATIC.

2.0 APPLICABLE CODES AND STANDARDS

A. PARTIAL LIST OF APPLICABLE CODES AS OF JANUARY 1, 2017:

2016 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.  
 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.  
 (2015 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2016 CALIFORNIA AMENDMENTS)  
 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.  
 (2014 NATIONAL ELECTRICAL CODE AND 2016 CALIFORNIA AMENDMENTS)  
 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.  
 (2015 UNIFORM MECHANICAL CODE AND 2016 CALIFORNIA AMENDMENTS)  
 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.  
 (2015 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)  
 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.  
 2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.  
 (2015 INTERNATIONAL FIRE CODE AND 2016 CALIFORNIA AMENDMENTS)  
 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.  
 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.  
 2013 ASME A17.1 SAFETY CODE FOR ELEVATORS AND ESCALATORS.

B. PARTIAL LIST OF APPLICABLE STANDARDS

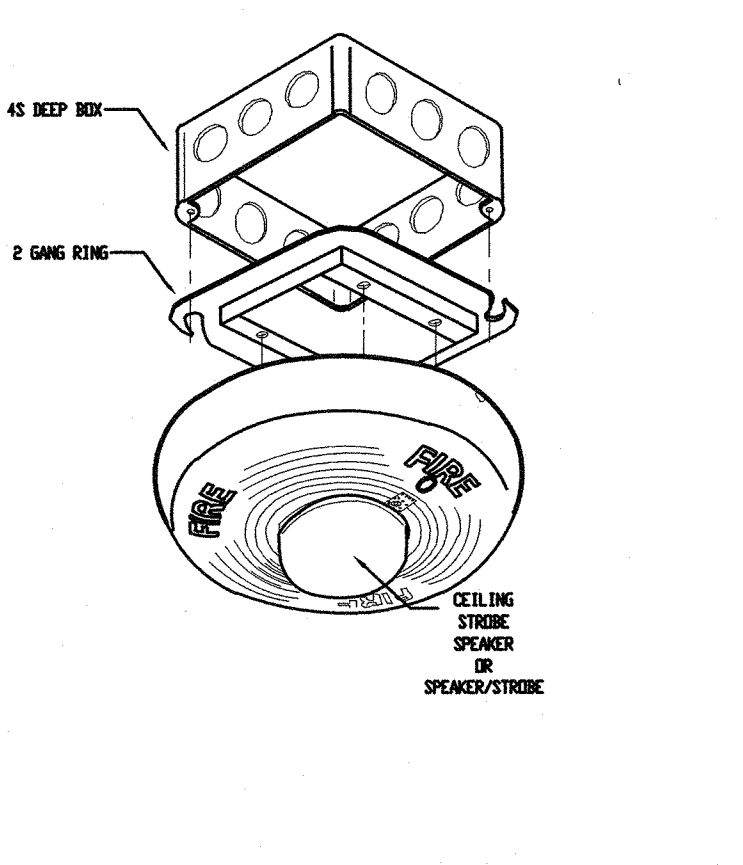
NFPA 13 AUTOMATIC SPRINKLER SYSTEMS 2016 EDITION  
 NFPA 14 STANDPIPE SYSTEMS 2013 EDITION  
 NFPA 17 DRY CHEMICAL EXTINGUISHING SYSTEM 2013 EDITION  
 NFPA 17A WET CHEMICAL SYSTEMS 2013 EDITION  
 NFPA 20 STATIONARY PUMPS 2016 EDITION  
 NFPA 22 WATER TANKS FOR PRIVATE FIRE PROTECTION 2013 EDITION  
 NFPA 24 PRIVATE FIRE MAINS 2016 EDITION  
 NFPA 72 NATIONAL FIRE ALARM CODE 2016 EDITION  
 NFPA 80 FIRE DOORS AND OTHER OPENING PROTECTIVES 2016 EDITION  
 NFPA 92 STANDARDS FOR SMOKE CONTROL SYSTEMS 2015 EDITION  
 NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS 2015 EDITION  
 NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS 2015 EDITION  
 ICC 300 ICC STANDARDS ON BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRAND STANDS 2012 EDITION  
 UL 300 FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF RESTAURANT COOKING AREAS 2005 EDITION  
 UL 464 AUDIBLE SIGNAL APPLIANCES 2003 EDITION  
 UL 521 HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS 1999 EDITION

REFERENCE CODE SECTION FOR NFPA STANDARDS-2016 CBC (SFM) CHAPTER 35. SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

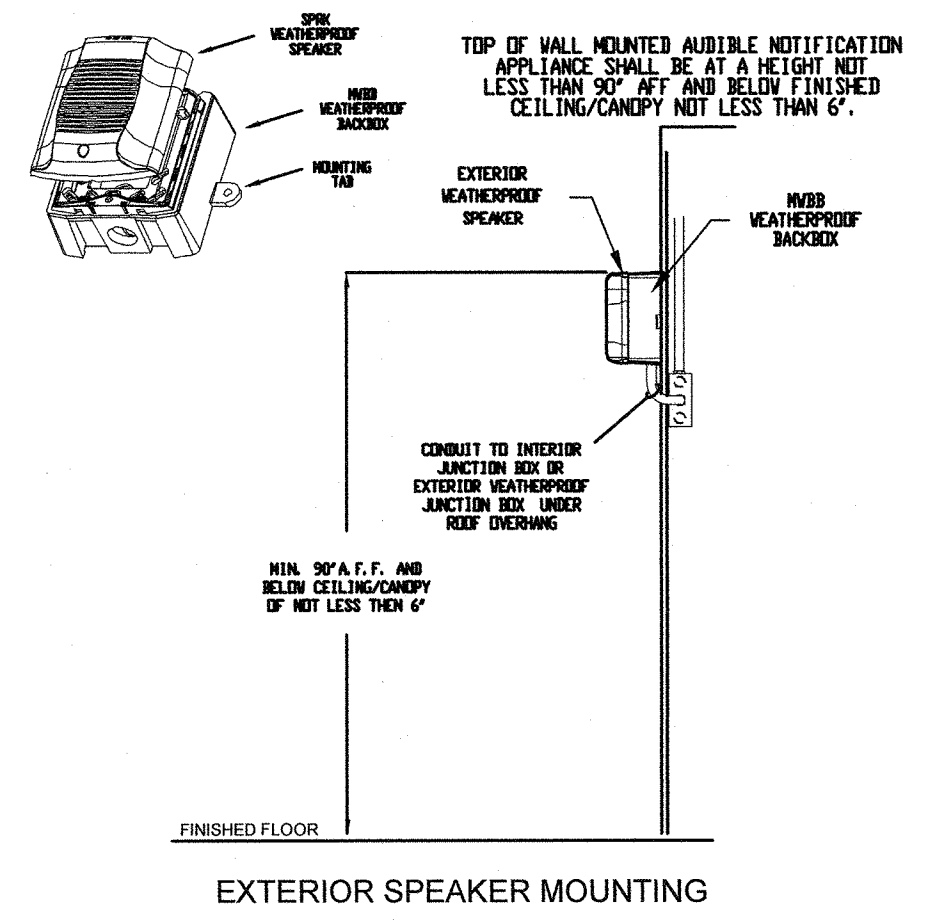
3.0 UPON RECEIPT OF THE CERTIFICATE OF COMPLIANCE, THE INSTALLER SHALL SUPPLY THE OWNER WITH A WRITTEN OPERATING, TESTING AND MAINTENANCE INSTRUCTIONS, POINT-TO-POINT AS BUILT DRAWINGS AND EQUIPMENT SPECIFICATIONS.

4.0 NFPA 72 CHAPTER 10.14 INSPECTION TESTING AND MAINTENANCE COMPLETE THE INSPECTION AND TESTING FIRM IN ITS ENTIRETY SUBMIT A COPY TO THE DISTRICT, ARCHITECT AND DSA DIVISION OF FIRE AND LIFE SAFETY.

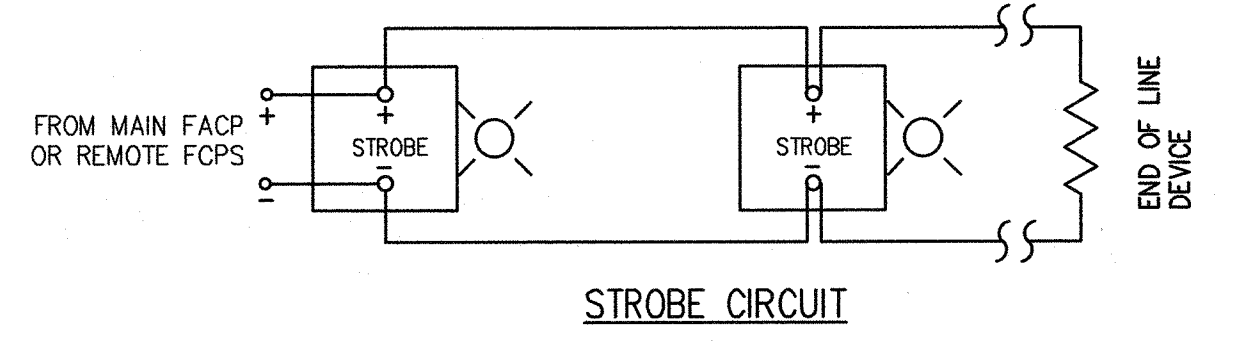
5.0 OCCUPANCY PROHIBITED TO ANY PORTION OF BUILDING UNTIL FIRE ALARM SYSTEM HAS BEEN TESTED AND APPROVED. (CFC 901.5) (CFC 901.5.1)  
 RECORD DRAWINGS OF ALL INSPECTION, TEST SHALL BE MAINTAINED ON PREMISES MINIMUM THREE YEARS. (CFC 901.6.2 (5 YEARS PER TITLE 14))  
 SMOKE DETECTORS TO UTILIZE CALIBRATED MANUFACTURE SENSITIVITY TEST INSTRUMENT. (CFC 907.9.4)



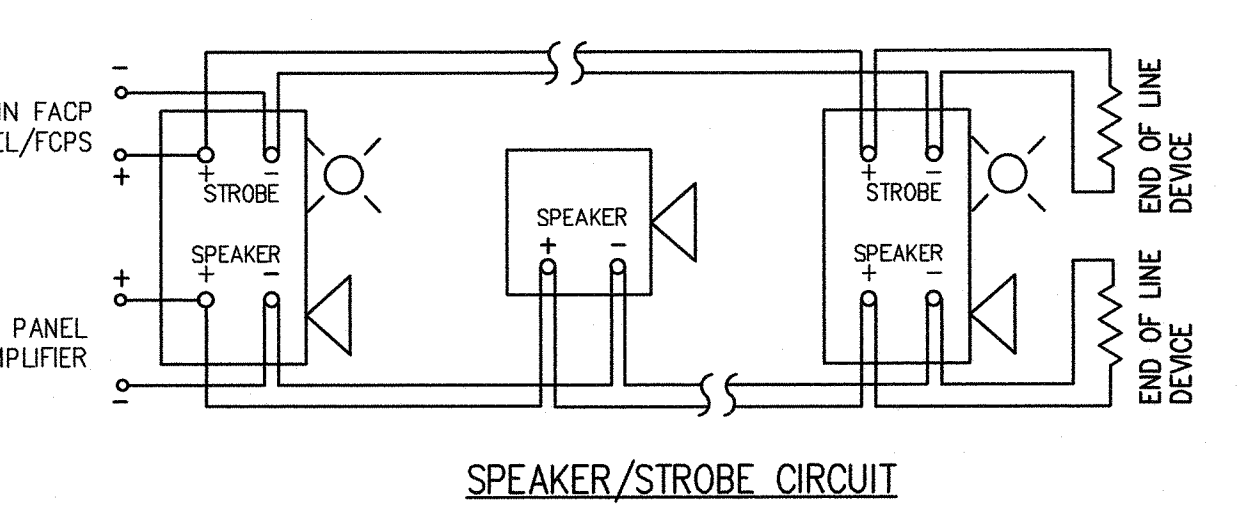
CEILING MOUNT SPEAKER, SPEAKER STROBE



EXTERIOR SPEAKER MOUNTING

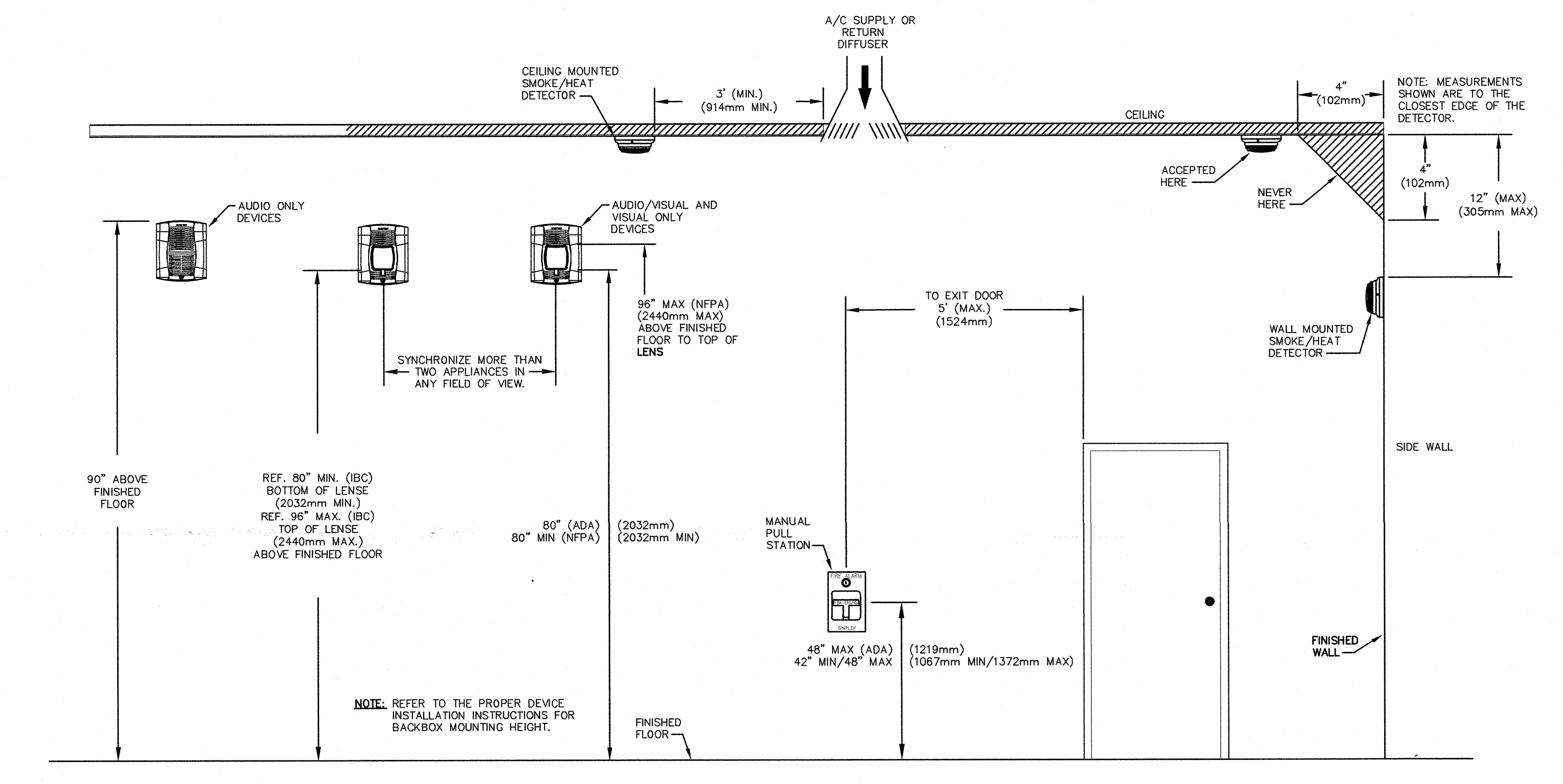


STROBE CIRCUIT



SPEAKER/STROBE CIRCUIT

FIRE ALARM NOTIFICATION APPLIANCE WIRING AND MOUNTING



FIRE ALARM DEVICE MOUNTING ELEVATIONS

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS

DEVICE/ACTION	MANUAL PULL STATION	AREA SMOKE DETECTOR	AREA HEAT DETECTOR	POWER FAILURE	GROUND FAULT	LOW BATTERY	OPEN CIRCUIT
ANNUNCIATE ALARM AT FACP AND REMOTE ANNUNCIATOR	X	X	X				
ANNUNCIATE SUPERVISORY CONDITION AT FACP AND REMOTE ANNUNCIATOR				X	X	X	X
ANNUNCIATE TROUBLE AT FACP AND REMOTE ANNUNCIATOR	X	X	X	X	X	X	X
ACTIVATE AUDIBLE/VISUAL SIGNAL THROUGHOUT SCHOOL (ALARM)	X	X	X				
CONTACT CENTRAL STATION (UDACT)	X	X	X	X	X	X	X

FA RECORD DOCUMENTS CABINET

EVERY NEW FIRE ALARM SYSTEM SHALL PROVIDE A DOCUMENTATION CABINET, INSTALLED AT THE SYSTEM CONTROL PANEL OR OTHER APPROVED LOCATION. REFER TO FLOOR PLANS FOR LOCATION.

THE DOCUMENTATION CABINET SHALL BE PROMINENTLY LABELED, "SYSTEM RECORD DOCUMENTS".

ALL RECORD AND TESTING DOCUMENTATION SHALL BE STORED IN THE CABINET.

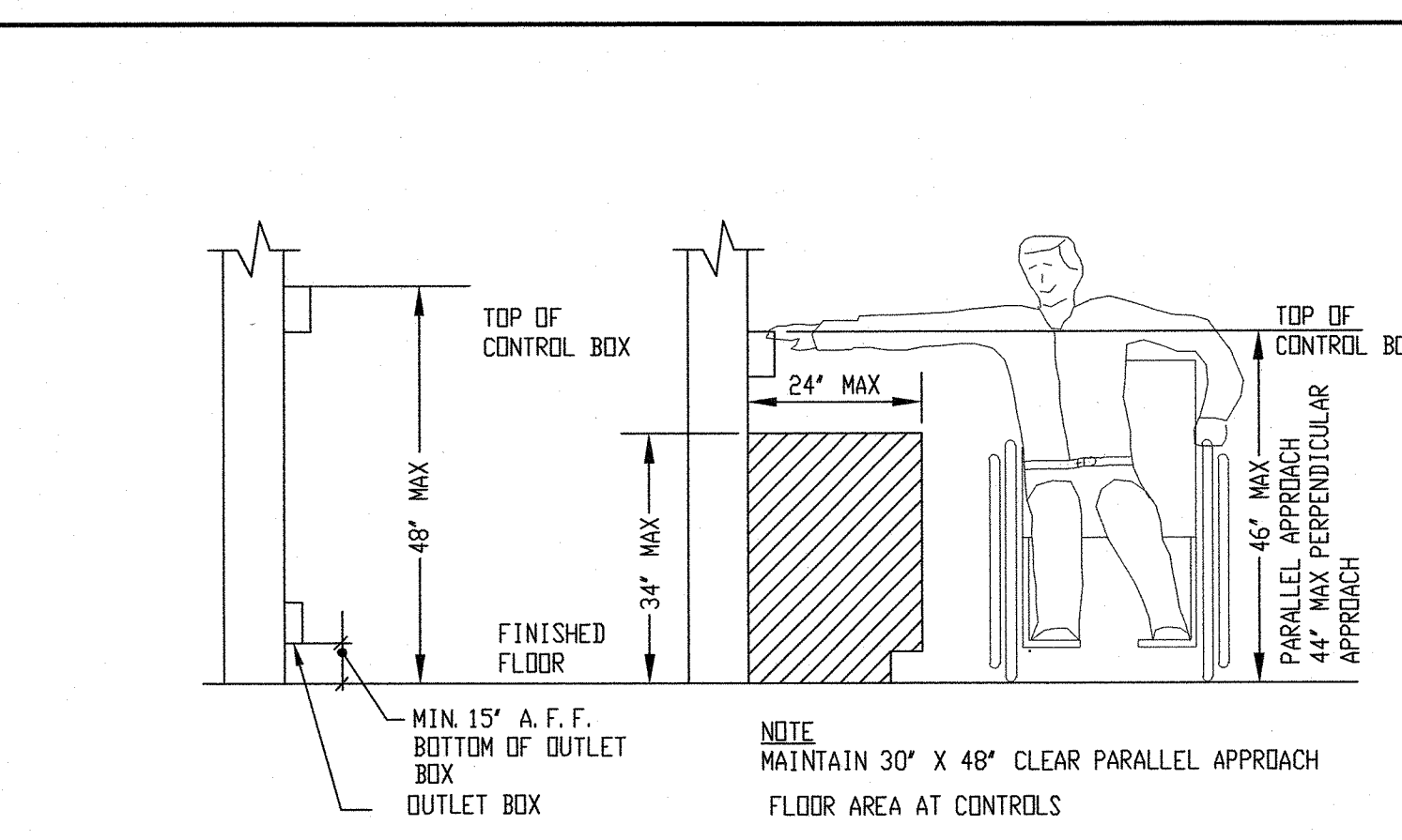
CONTENTS SHALL BE ACCESSIBLE BY AUTHORIZED PERSONNEL ONLY.

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/SFM LISTINGS
- ALTERNATIVE MEANS AND METHODS
- PERFORMANCE BASED DESIGN DOCUMENTS (NFPA 72.7.3.7)
- SYSTEM RECORD OF COMPLETION & ANY SUPPLEMENTAL INSPECTION AND TESTING DOCUMENTATION (NFPA 72.7.3.2)
- EMERGENCY RESPONSE PLAN (NFPA 72.7.3.8)
- EVALUATION DOCUMENTATION (NFPA 72.7.3.9)
- RISK ANALYSIS DOCUMENTATION (NFPA 72.7.3.6)
- SOFTWARE & FIRMWARE CONTROL DOCUMENTATION (NFPA 72.23.2.2)

MOUNTING HEIGHT OBSTRUCTION DETAIL



MOUNTING HEIGHT OBSTRUCTION DETAIL

**BCA**

architecture  
planning  
interiors

BCA Architects  
505 S. Market St.  
San Jose, California 95113  
[T] 408.588.3800  
[F] 408.588.3805  
www.BCAarchitects.com

ARCHITECT [Signature] ENGINEER [Signature]

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NO.	REMARKS	DATE

FILE NO. **55-45**

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
**03-118756**  
AC, EC, FL, CO, SS, JB  
DATE: **10-2-2018**

Key Plan

BROOKSIDE ELEMENTARY  
SCHOOL MODERNIZATION  
OAK PARK UNIFIED  
SCHOOL DISTRICT

165 N. SATINWOOD DRIVE  
OAK PARK CALIFORNIA 91301

**FIRE ALARM  
EQUIPMENT  
SCHEDULE**

Date: 09/13/2018 Drawing Number: **E0.1**

Scale: AS NOTED  
Project Number: **E0.1**

FBA Engineering  
Consulting Electrical Engineers  
150 Paulinho Avenue Suite A120  
Costa Mesa, CA 92626  
949.452.9999 • 949.452.1867 (fax)  
fbaengr.com  
FBA Job Number: 1022.034

FBA Engineering / Plot Date: 9/13/2018 2:41 PM / Plotted by: Blake Mesch / Drawing Location: I:\1022034\REV\_1\_1022.034.dwg

VOLTAGE DROP CALCULATION VISUAL

DEVICE	DEVICE CURRENT (AMPS)	SIGNAL FROM	
		A	FCAP
		QTY	CURR.
<b>Speakers</b>			
1/2 Watt Speaker (70.7v)	0.007	15	0.103
1 Watt Speaker (70.7v)	0.014	4	0.056
TOTAL CURRENT ON CIRCUIT		0.161	AMPS
TOTAL WIRE LENGTH		400	FT.
% VOLTAGE DROP		2.25	%
WIRE SIZE # AWG		18	2580
CIRCUIT LOCATION		ADMIN. BLDG.	

VOLTAGE DROP CALCULATION AUDIO

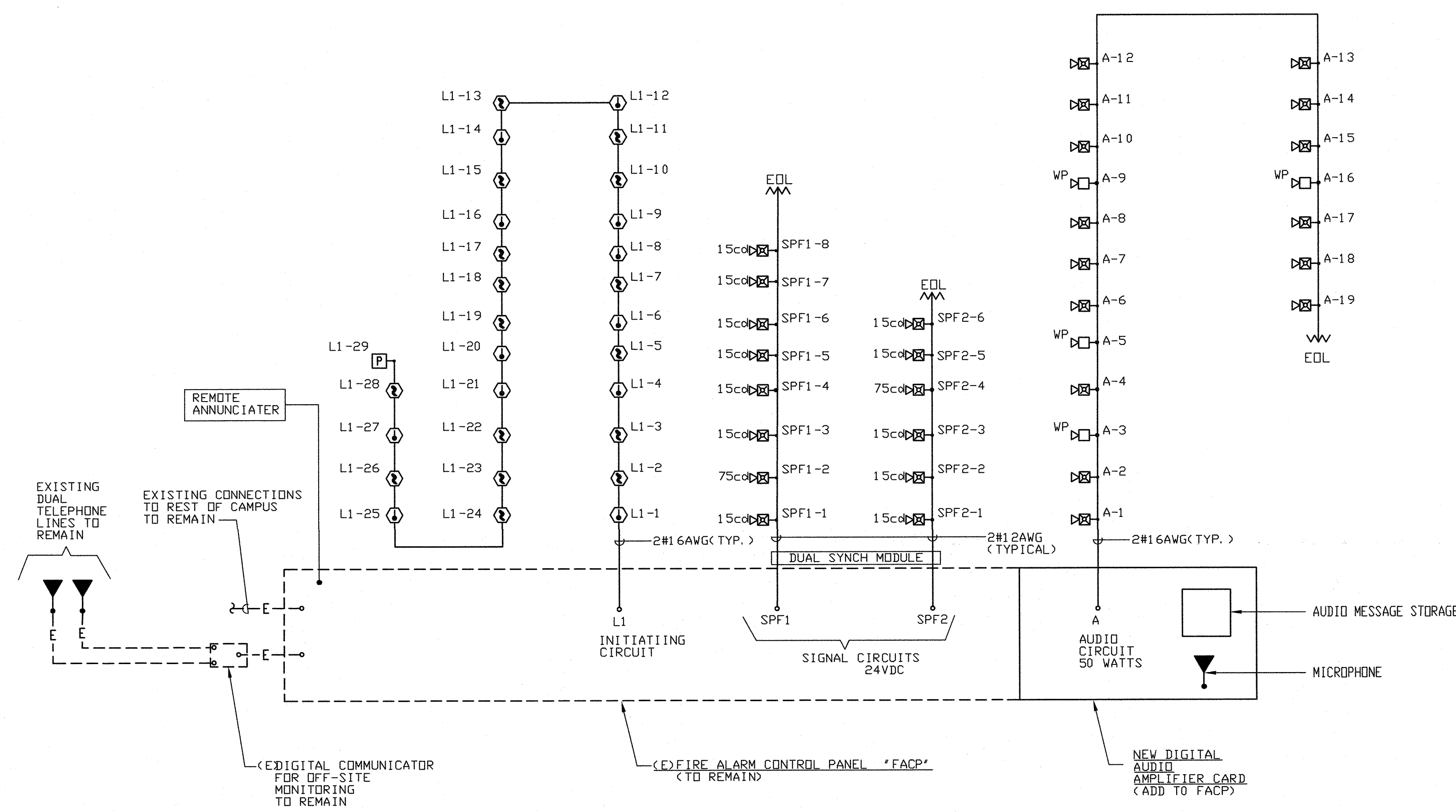
DEVICE	DEVICE CURRENT (AMPS)	SIGNAL FROM		SIGNAL FROM	
		SPF1	FCAP	SPF2	FCAP
		QTY	CURR.	QTY	CURR.
<b>Speaker/Strobes</b>					
15cd	0.066	7	0.462	5	0.330
75cd	0.158	1	0.158	1	0.158
WP 75cd	0.158		0.000		0.000
TOTAL CURRENT ON CIRCUIT		0.620	AMPS	0.488	AMPS
TOTAL WIRE LENGTH		350	FT.	250	FT.
% VOLTAGE DROP		2.99	%	1.68	%
WIRE SIZE # AWG		12	6530	12	6530
CIRCUIT LOCATION		ADMIN. BLDG.		ADMIN. BLDG.	

CIRC. MILS		DISTANCE X TOTAL CURR. X 21.6
18 AWG = 1620	VOLTAGE DROP =	
16 AWG = 2580		CIRCULAR MILS
14 AWG = 4110		
12 AWG = 6530	% VOLTAGE DROP =	VOLTAGE DROP X 100
		24 VOLTS

FIRE ALARM CONTROL PANEL

QTY	DEVICE	STAND BY CURRENT	ALARM CURRENT
1	MAIN CONTROL PANEL	0.1000	0.2500
1	CPS-24	0.0000	0.0000
123	SMOKE DETECTOR	0.0440	0.7095
251	HEAT DETECTOR	0.0753	6.6995
7	PULL STATION	0.0020	0.0028
13	MONITOR MODULE	0.0600	0.9607
9	CONTROL MODULE	0.0189	0.0299
15	1/2 WATT SPEAKER 70.7V	0.0000	0.1050
4	1 WATT SPEAKER 70.7V	0.0000	0.0560
TOTAL CURRENTS		0.3390	3.0670
TOTAL STAND-BY CURRENT X 24 HOURS		= 0.339 X 24 = 8.136 A-HR	
TOTAL ALARM CURRENT X 15 MINUTES		= 3.09 X 0.250 = 0.772 A-HR	
TOTAL MINIMUM AMP-HOURS OF BATTERIES		= 8.908 A-HR	
ADDITIONAL 20% DERATING SAFETY FACTOR		= 10.689 A-HR	

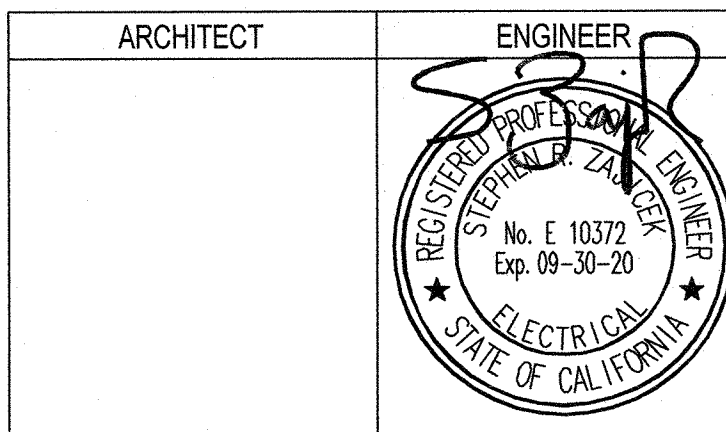
NOTES:  
 1. BATTERY CALCULATION SHALL BE BASED ON 24 HOURS OF STANDBY AND 15 MINUTES OF ALARM CURRENT  
 2. EXISTING 18-A-HR BATTERIES ARE SUFFICIENT TO SERVE ALL NEW AND EXISTING LOADS



FIRE ALARM CALCULATIONS

FIRE ALARM RISER DIAGRAM

**FBA Engineering**  
 Consulting Electrical Engineers  
 150 Paulano Avenue Suite A120  
 Costa Mesa, CA 92626  
 949.452.9999 • 949.452.1657 (fax)  
 fbaengr.com  
 FBA Job Number: 1022.034

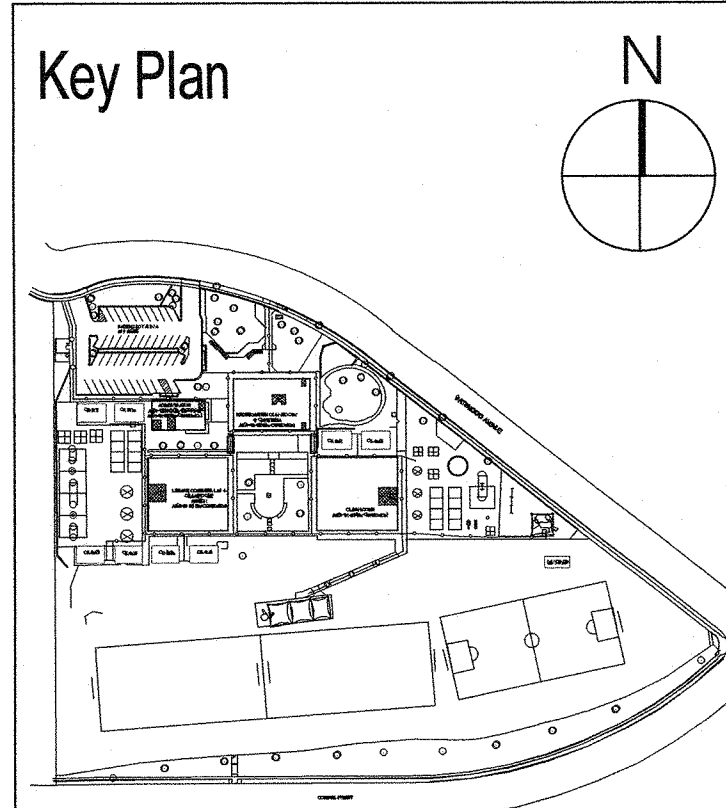
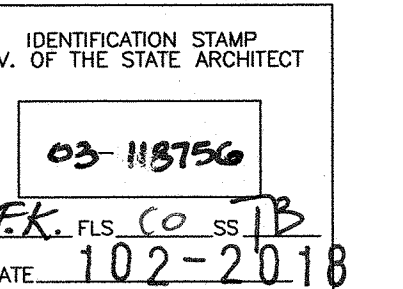


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NO.	REMARKS	DATE

DRAWING STATUS	DATE
● SCHEMATIC DESIGN	
● DESIGN DEVELOPMENT	
● DSA PLAN CHECK	
○ DSA BACK CHECK	

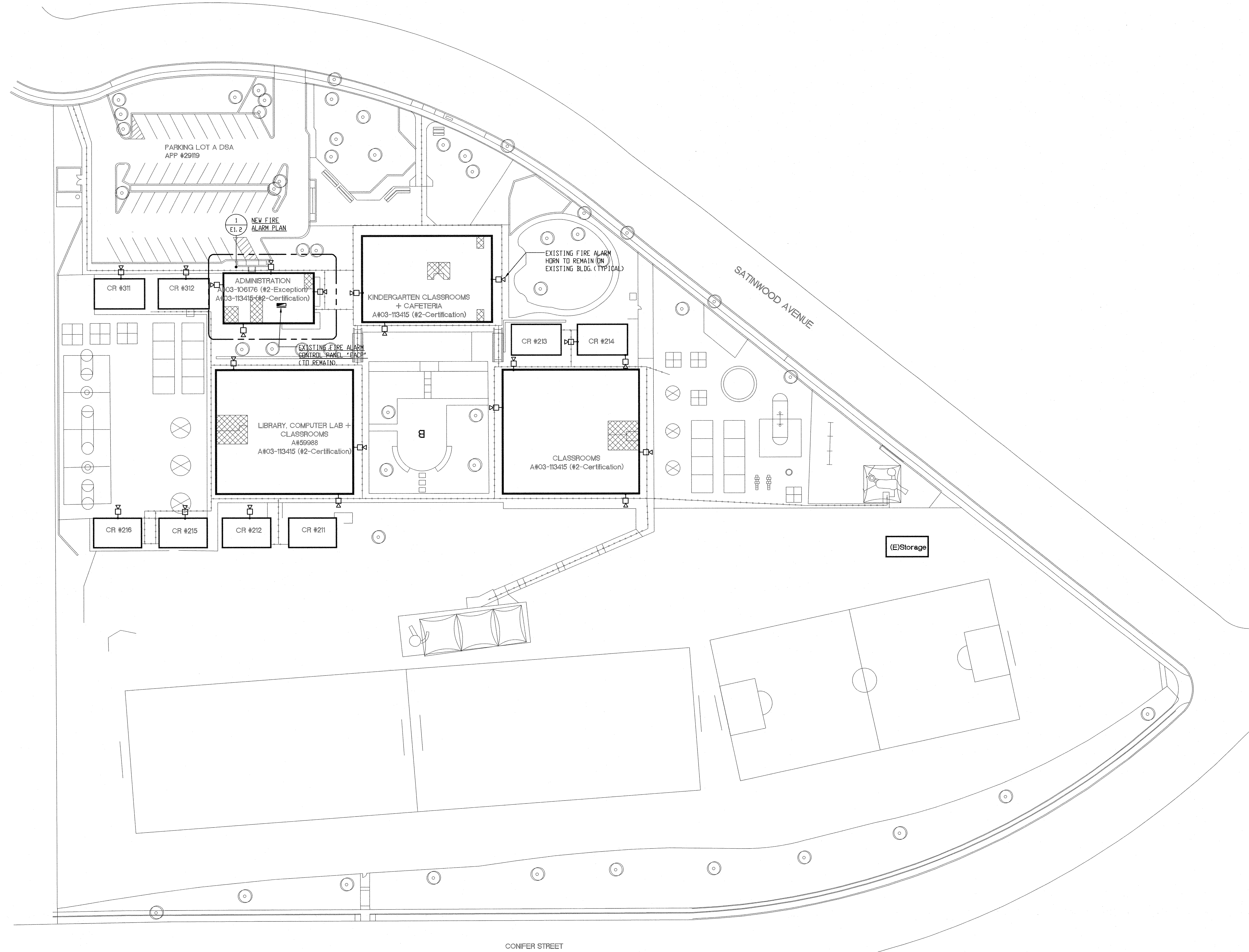
FILE NO. **55-45**



**BROOKSIDE ELEMENTARY SCHOOL MODERNIZATION**  
 OAK PARK UNIFIED SCHOOL DISTRICT  
 165 N. SATINWOOD DRIVE  
 OAK PARK CALIFORNIA 91301

**FIRE ALARM RISER DIAGRAM**

Date: 09/13/2018  
 Drawing Number: **E0.2**  
 Scale: AS NOTED  
 Project Number:



FIRE ALARM SITE PLAN 1

ARCHITECT	ENGINEER

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NO.	REMARKS	DATE

DRAWING STATUS	DATE
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<input type="radio"/> DESIGN DEVELOPMENT	
<input type="radio"/> DSA PLAN CHECK	
<input type="radio"/> DSA BACK CHECK	

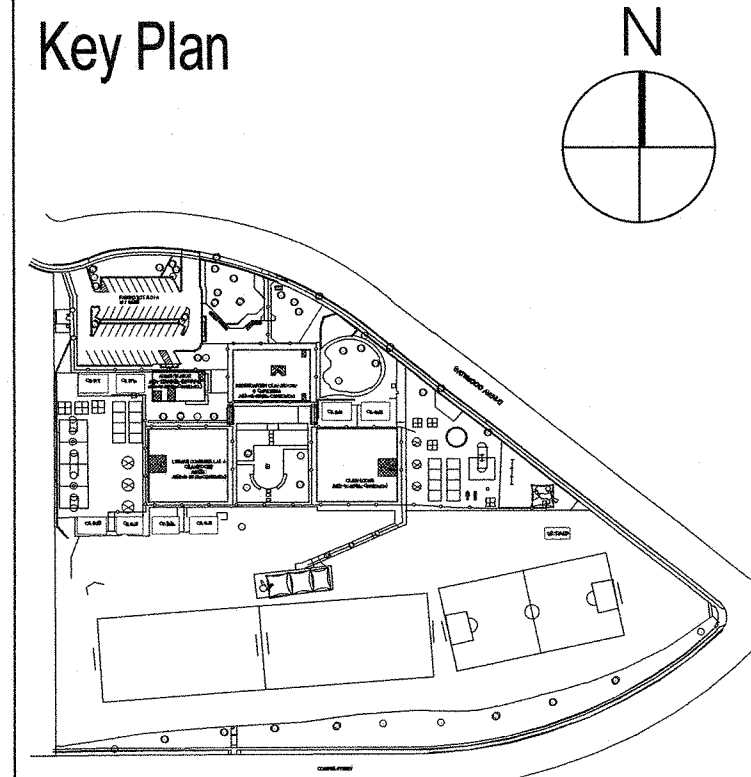
FILE NO. **55-45**

IDENTIFICATION STAMP  
DW. OF THE STATE ARCHITECT

**03-116156**

AC. **EJ** PLS. **CO** SS. **JB**

DATE: **10-2-2018**



**BROOKSIDE ELEMENTARY SCHOOL MODERNIZATION**  
OAK PARK UNIFIED SCHOOL DISTRICT

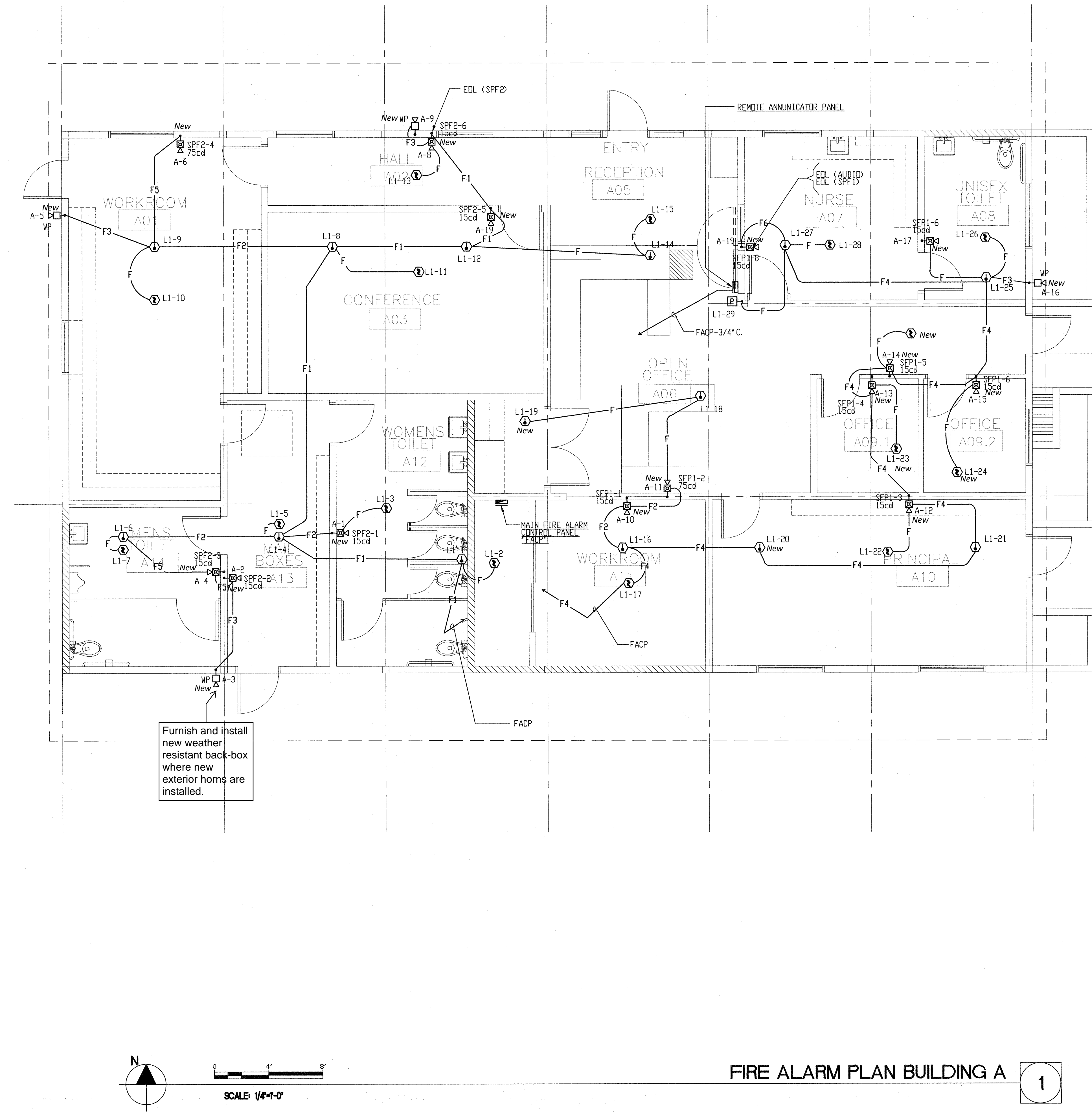
165 N. SATINWOOD DRIVE  
OAK PARK CALIFORNIA 91301

**FIRE ALARM SITE PLAN**

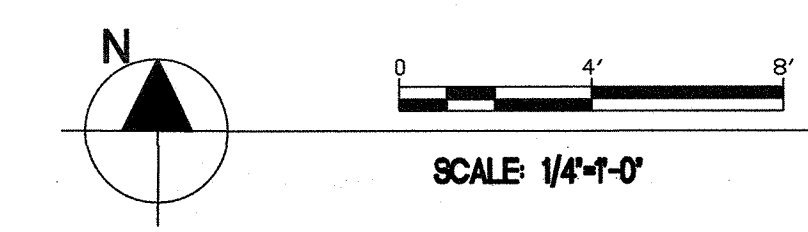
Date	09/13/2018	Drawing Number	E1.1
Scale	AS NOTED	Project Number	

**FBA Engineering**  
Consulting Electrical Engineers  
150 Palmdale Avenue Suite A120  
Culver City, CA 90230  
Tel: 818.999.4100 • Fax: 818.999.1667 (fax)  
fbaengr.com  
FBA Job Number: 1022.034

FBA Engineering / Plot Date: 9/13/2018 2:41 PM / Plotted by: Blake Mesch / Drawing Location: I:\1022\034\AE1\_1\_1022.034.dwg



FIRE ALARM PLAN BUILDING A 1



FIRE ALARM CONDUIT SCHEDULE		
SYMBOL	CONDUCTORS	SIZE
F	2#16 (UTP/SLS)	3/4" C
F1	2#16 (UTP/SLS) PLUS 4#16(AUDID) PLUS 2#12(NOTIFICATION)	3/4" C
F2	2#16 (UTP/SLS) PLUS 4#16(AUDID) PLUS 4#12(NOTIFICATION)	1" C
F3	4#16(AUDID)	3/4" C
F4	2#16 (UTP/SLS) PLUS 2#16(AUDID) PLUS 2#12(NOTIFICATION)	3/4" C
F5	4#16(AUDID) PLUS 4#12(NOTIFICATION)	3/4" C
F6	2#16(AUDID) PLUS 2#12(NOTIFICATION)	3/4" C

ARCHITECT	ENGINEER

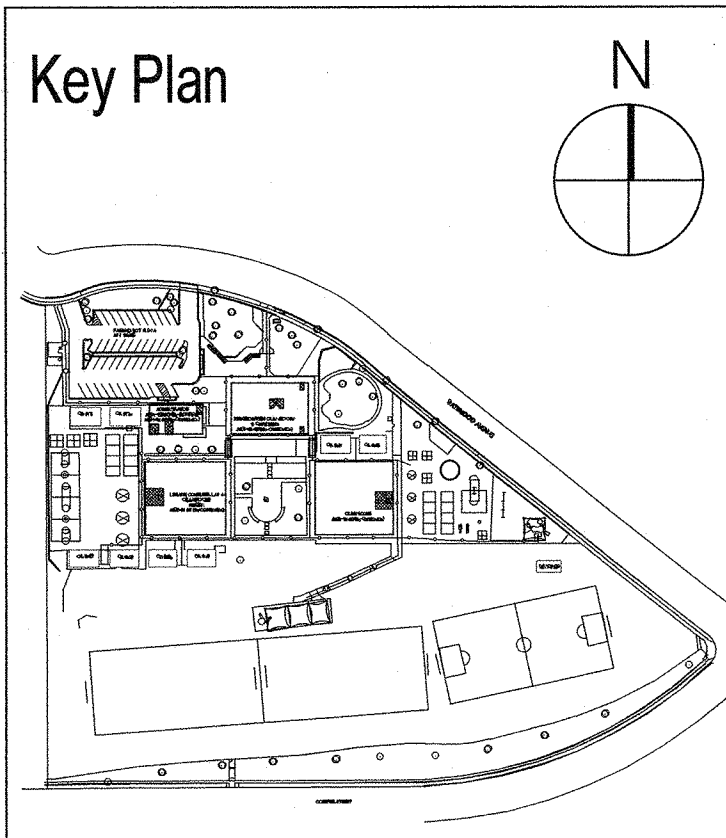
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NO.	REMARKS	DATE

**DRAWING STATUS**

SCHEMATIC DESIGN  
 DESIGN DEVELOPMENT  
 DSA PLAN CHECK  
 DSA BACK CHECK

FILE NO: **55-45**  
 IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
**03-116756**  
*[Signature]*  
 DATE: **10-2-2018**



**BROOKSIDE ELEMENTARY  
SCHOOL MODERNIZATION**  
OAK PARK UNIFIED  
SCHOOL DISTRICT

165 N. SATINWOOD DRIVE  
OAK PARK CALIFORNIA 91301

## FIRE ALARM PLAN BLDG. A

Date	09/13/2018	Drawing Number	E1.2
Scale	AS NOTED	Project Number	

**FBA Engineering**  
 Consulting Electrical Engineers  
 150 Piedra Avenue Suite A120  
 Costa Mesa, CA 92626  
 949.822.9999 • 949.822.1657 (fax)  
 fbaweb.com  
 FBA Job Number: 1022.034

**ELECTRICAL PANEL SCHEDULE**

LOAD	QUANTITY	WATTS		BREAKER	P	Amps	P	Amps	WATTS	LOAD	
		A	B								A
RECEPTACLE/COMPUTER	(2)	1000		20	1	1	2	2	60	3684	4 TON ROOF MOUNTED HVAC UNIT
DEDICATED RECEPTACLE	(1)	500		20	1	3	4	-	-	3684	4 TON ROOF MOUNTED HVAC UNIT
RECEPTACLE/COMPUTER	(2)	1000		20	1	5	6	-	-		
RECEPTACLE - GFI	(4)	720		20	1	7	8	-	-		
DEDICATED RECEPTACLE	(1)	500		20	1	9	10	-	-		
COPIER	(1)	1500		20	1	11	12	-	-		
RECEPTACLE/COMPUTER	(3)	1180		20	1	13	14	-	-		
INTERIOR LIGHTS/FAN	(19)	1360		20	1	15	16	-	-		
INTERIOR LIGHTS/FAN	(15)	1400		20	1	17	18	-	-		
WATTS/PHASE		A = 8764	5080	4080					3684	3684	B = 7764
TOTAL	16,528	WATTS	69	AMPS	120/240	VOLTS	SINGLE PHASE		THREE WIRE		

**ELECTRICAL PANEL SCHEDULE**

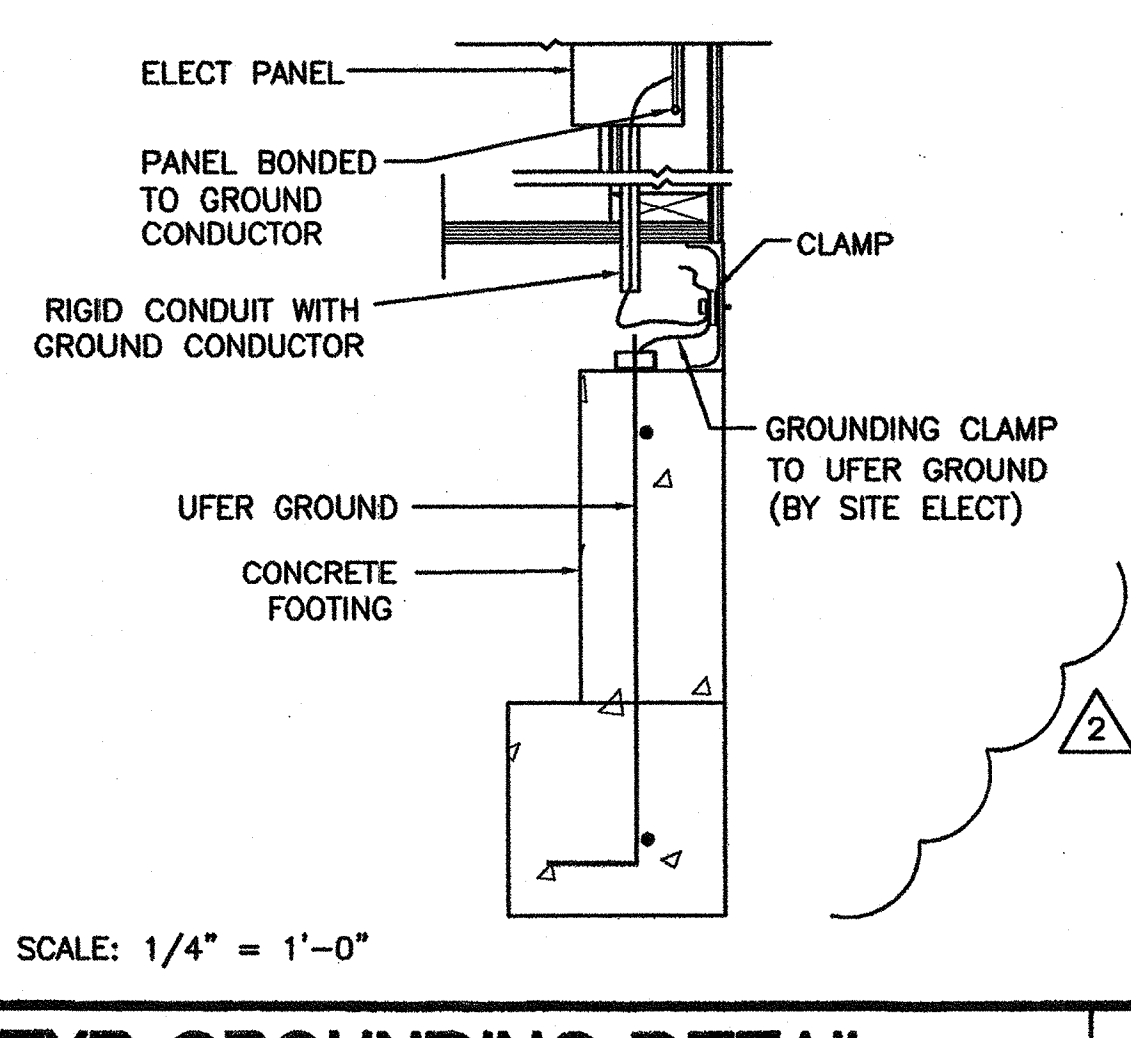
LOAD	QUANTITY	WATTS		BREAKER	P	Amps	P	Amps	WATTS	LOAD	
		A	B								A
RECEPTACLE/COMPUTER	(2)	1000		20	1	1	2	2	60	3684	4 TON ROOF MOUNTED HVAC UNIT
RECEPTACLE/COMPUTER	(2)	680		20	1	3	4	-	-	3684	4 TON ROOF MOUNTED HVAC UNIT
RECEPTACLE - GFI	(3)	540		20	1	5	6	2	60	3684	4 TON ROOF MOUNTED HVAC UNIT
DEDICATED RECEPTACLE	(1)	500		20	1	7	8	-	-	3684	4 TON ROOF MOUNTED HVAC UNIT
RECEPTACLE/COMPUTER	(1)	1000		20	1	9	10	-	-		
RECEPTACLE/COMPUTER	(3)	860		20	1	11	12	-	-		
INTERIOR LIGHTS/FAN	(22)	1570		20	1	13	14	-	-		
INT/EXT LIGHTS	(21)	1450		20	1	15	16	-	-		
RECEPTACLE - GFI	(1)	180		20	1	17	18	-	-		
WATTS/PHASE		A = 11,658	4290	3490					7368	7368	B = 10,858
TOTAL	22,516	WATTS	94	AMPS	120/240	VOLTS	SINGLE PHASE		THREE WIRE		

**GENERAL GROUNDING NOTES**

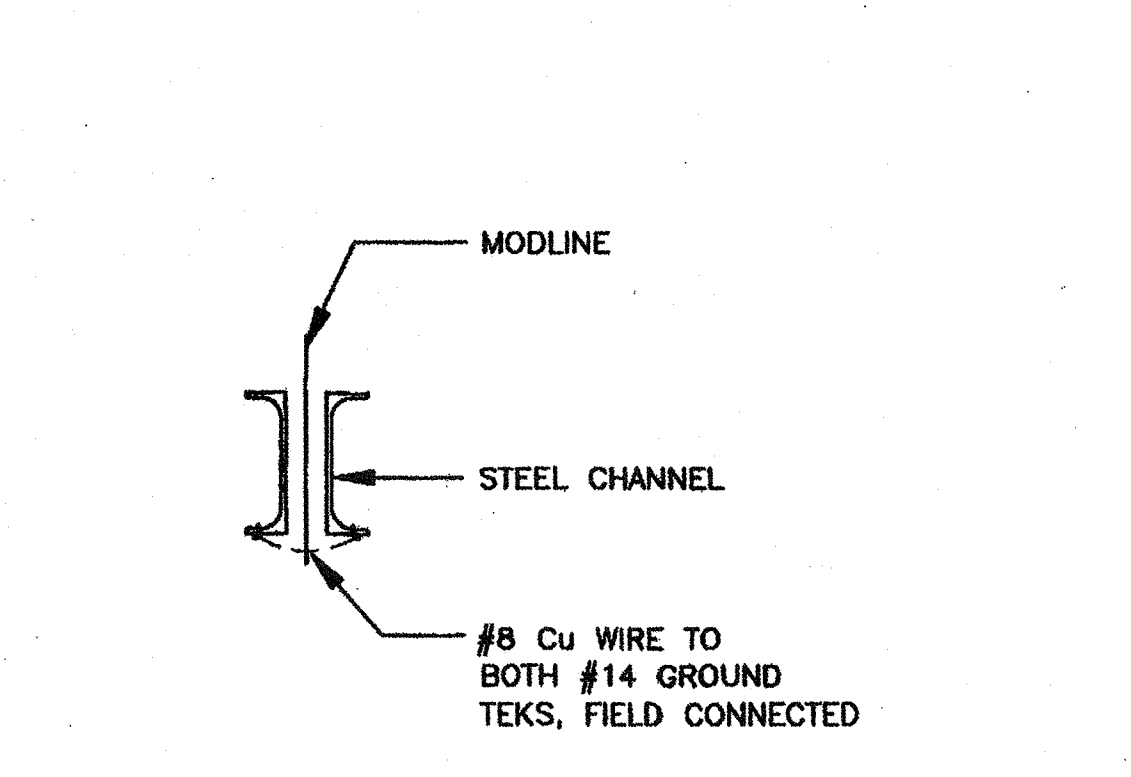
- EACH BUILDING SHALL BE SEPARATELY GROUNDING WITH A 3/4" RD. X 6' COPPERCLAD STEEL GROUND ROD. WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL)
- TESTING: TEST FOR RESISTANCE TO GROUND. IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS. (BY SITE ELECTRICAL)
- APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION, EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.
- GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.

**ELECTRICAL LEGEND**

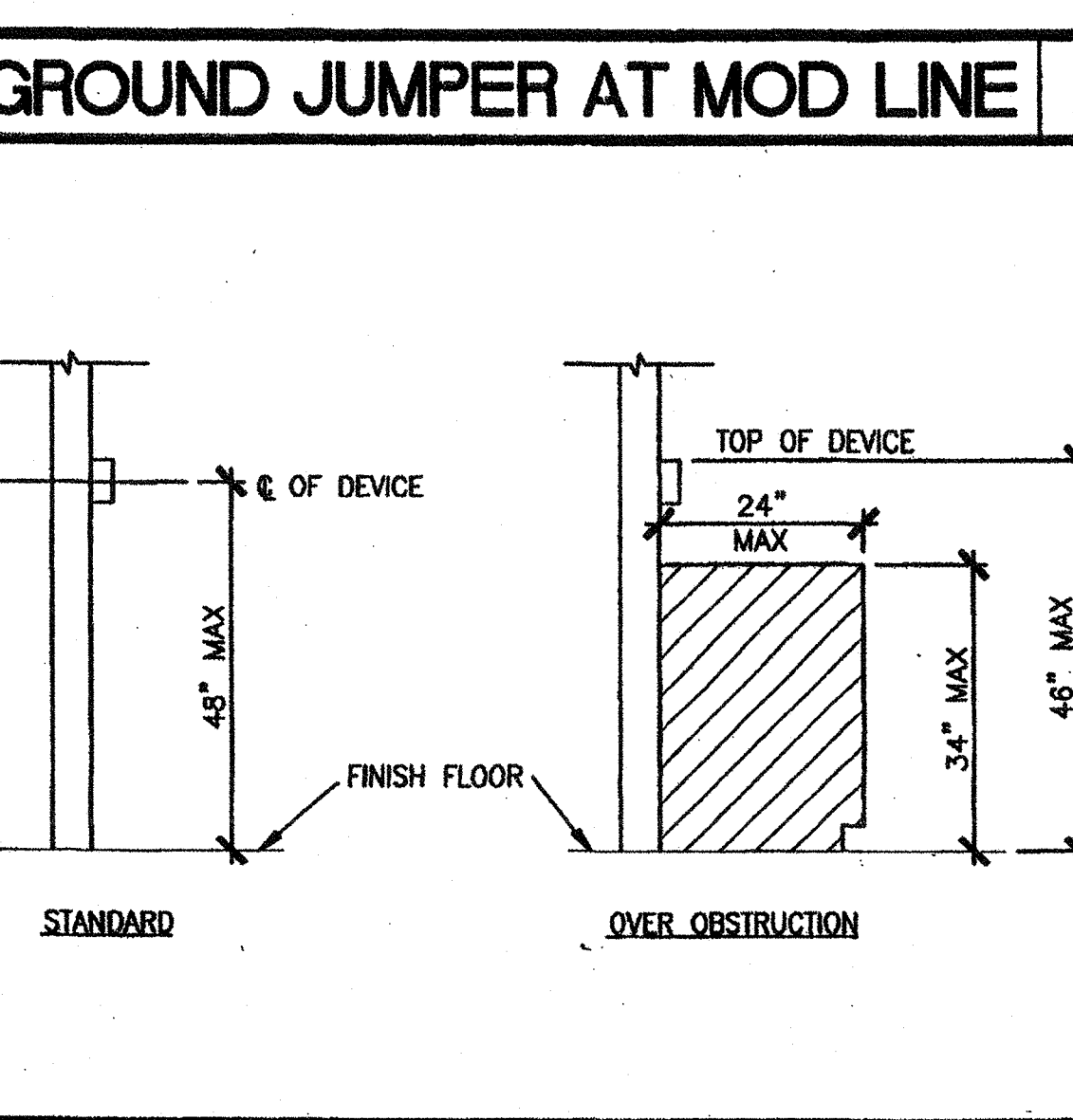
- 2"x4" 4 TUBE FLUORESCENT LIGHT FIXTURE 1-8 LIGHTS W/ELECTRONIC BALLAST
- EXTERIOR LIGHT FIXTURE AT +93" AFF
- SWITCH AT +48" AFF
- 3-WAY SWITCH AT +48" AFF
- DUPLEX WALL RECEPTACLE 15A 125V 3-WIRE AT +18" AFF UON
- GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE
- ROOF RECEPTACLE, WATER PROOF, 15A, 125V, 3 WIRE
- HVAC UNIT
- 4SD J-BOX FOR FIRE ALARM PULL STATION AT +48" AFF. TO G 3/4" CO TO OR ATTIC. PULLSTRING
- 4SD J-BOX (RACO 8189) FOR FIRE ALARM STROBE AT +80" AFF 3/4" CO TO OR ATTIC. PULLSTRING
- 4SD J-BOX FOR FIRE ALARM HORN AT +96" AFF 3/4" CO TO OR ATTIC. PULLSTRING
- 4SD J-BOX (RACO 8189) FOR FIRE ALARM HORN/STROBE +80" AFF. 3/4" CO TO ATTIC
- WEATHER PROOF OUTER BOX (6"x6"x4") AT +18" AFF RECEIVE 3/4" CO FROM PA DEVICE, PULLSTRING
- ELECTRICAL PANEL AT +80" AFF TO CENTERLINE 1 1/4" POWER NIPPLE POC, GND JUMPER BY SITE ELECT
- CLOCK AT +90" AFF
- LIGHTED EXIT SIGN WITH BATTERY BACK UP
- 4SD J-BOX FOR HEAT DETECTOR (ATTIC)
- 4SD J-BOX FOR SMOKE DETECTOR (ATTIC)
- 100 CFM CEILING EXHAUST VENT. SWITCH WITH LIGHT
- 300 CFM CEILING EXHAUST VENT. SWITCH WITH LIGHT
- 4SD J-BOX FOR TELEPHONE/DATA STUBB 3/4" CO TO ATTIC @ +18" AFF UNO



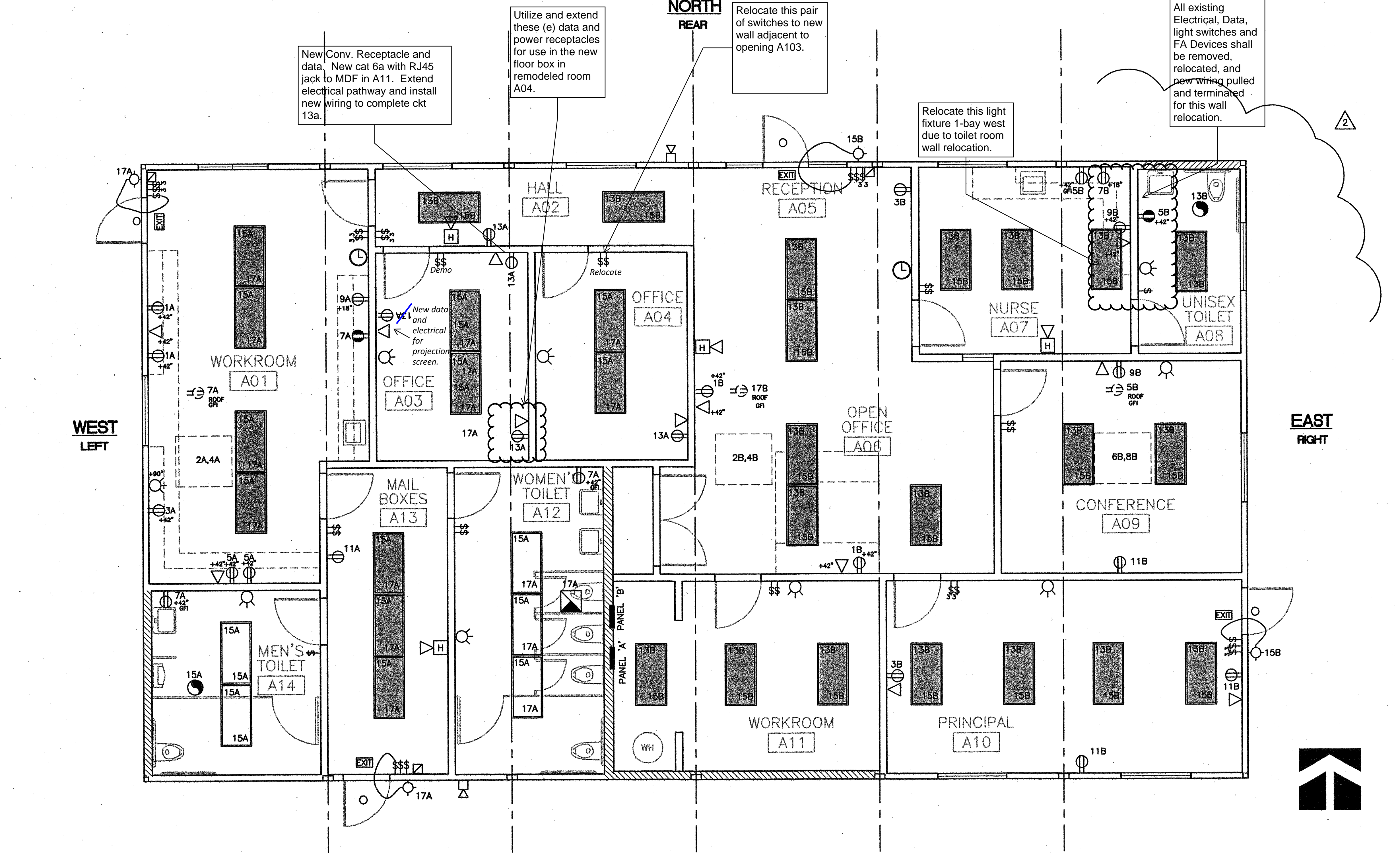
**TYP GROUNDING DETAIL 1**



**GROUND JUMPER AT MOD LINE 2**



**DEVICE MOUNTING 3**



**ELECTRICAL PLAN** SCALE: 1/4" = 1'-0"

**REVISIONS**

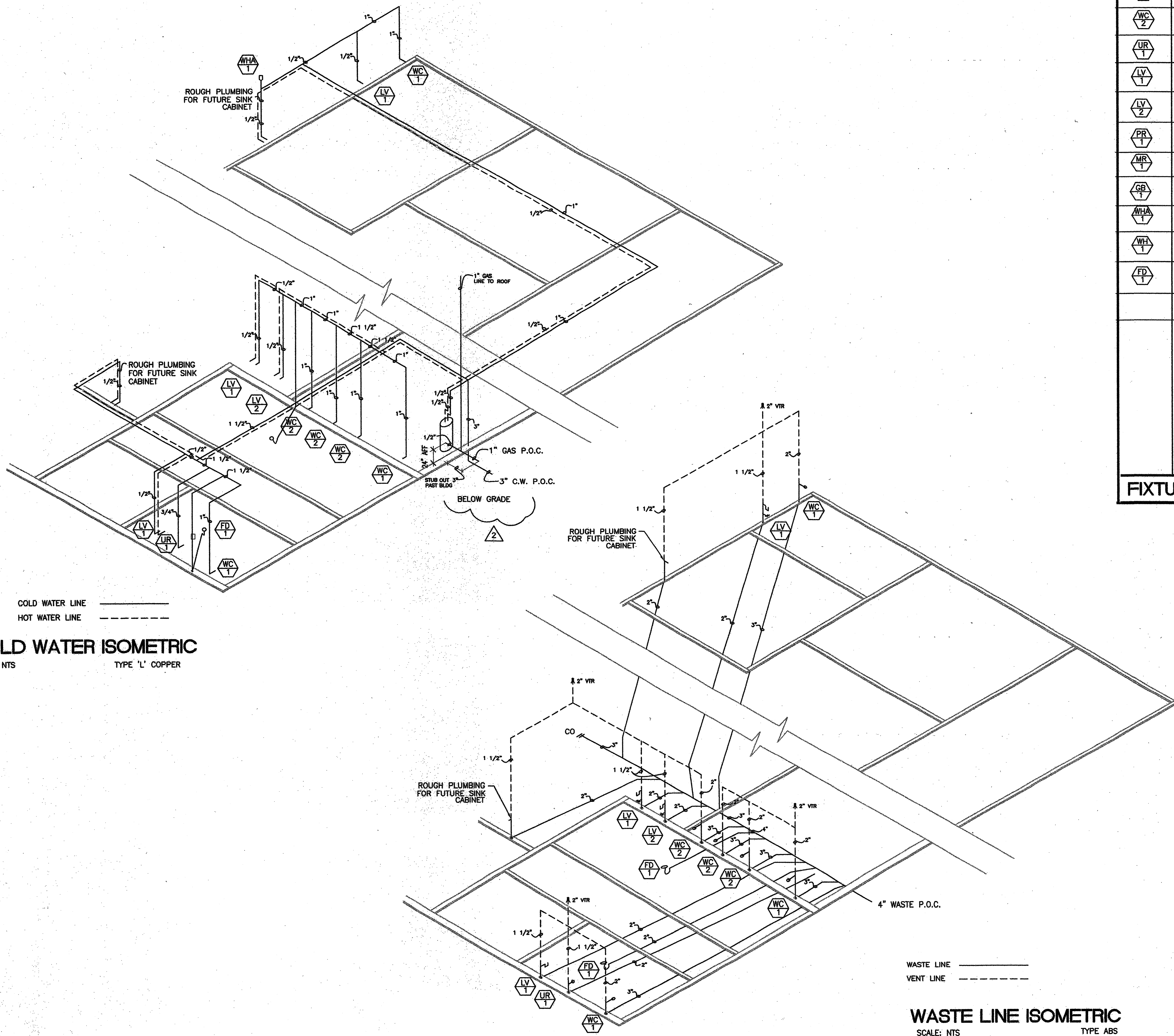
NO.	DESCRIPTION	DATE
1	MODTECH ENGINEERING CHANGE	09/28/00
2	ELECTRICAL PLAN, PANEL SCHEDULE, AND DETAIL REVISED FROM P.C. PER JOB #4094	3/15/02

Professional Engineer's Seal, Mechanical Engineer's Seal, Structural Engineer's Seal, Architects Seal, and a stamp from the State Architect's Office of Regulation Services, dated 10/12/08.

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

PROJECT NUMBER: 4094  
 OAK PARK UNIFIED SCHOOL DISTRICT  
 BROOKSIDE ELEMENTARY SCHOOL (1) 72' x 40' ADMINISTRATION BLDG.

MODTECH, INC. 2001  
 DRAWN BY: CM  
 DATE: 3/1/02  
 CHECKED BY: SW  
 DATE: 1/5/2018  
**E1.03A**



**COLD WATER ISOMETRIC**  
 SCALE: NTS  
 TYPE 'L' COPPER

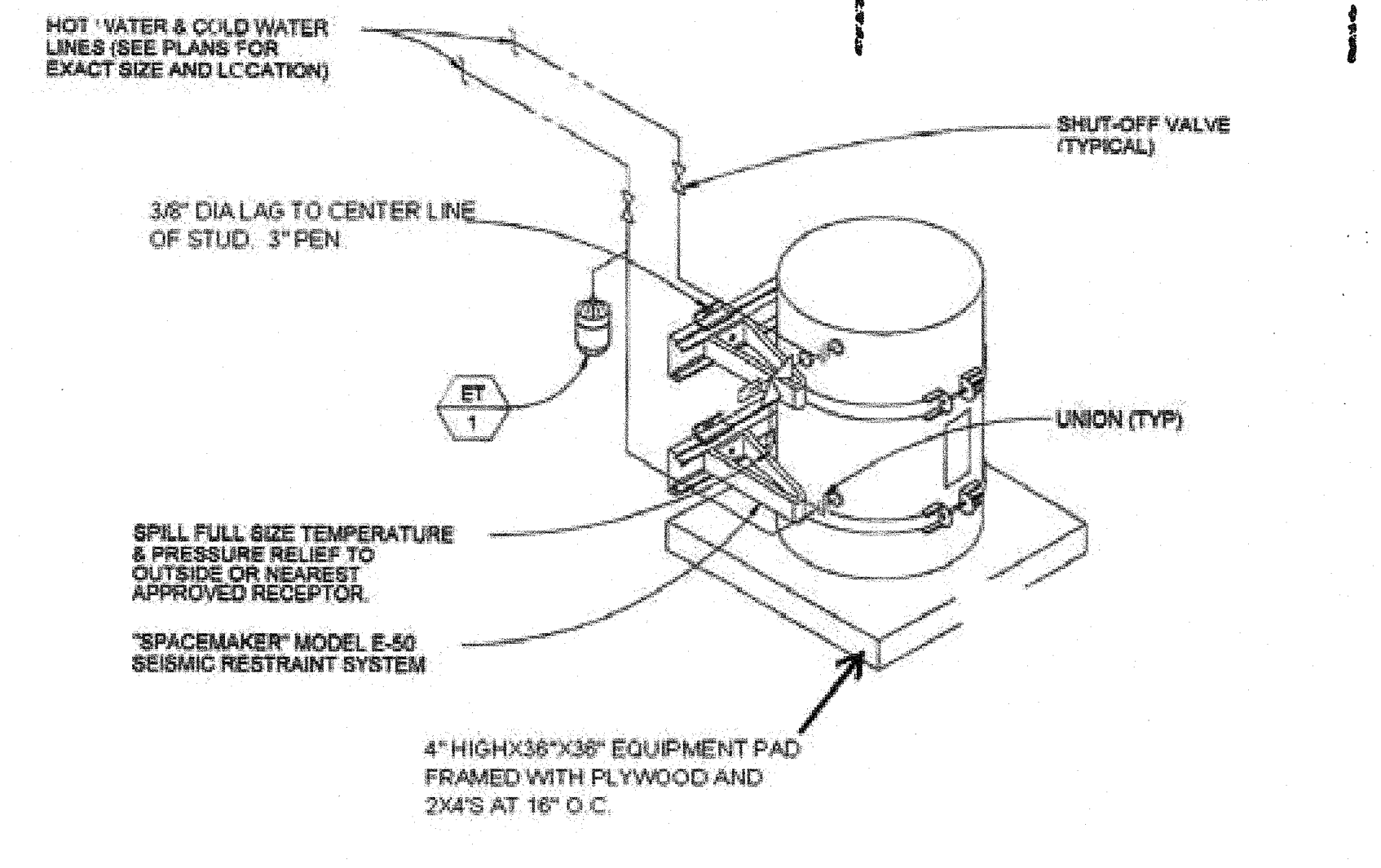
**WASTE LINE ISOMETRIC**  
 SCALE: NTS  
 TYPE ABS

ITEM	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	DESCRIPTION
WC 1	WATER CLOSET ACCESSIBLE	1"	-	3"	2"	CRANE 3-446E PLACIDUS, VITREOUS CHINA, 1.5 GALLON FLUSH #10 CC OLSONITE SEAT, #111 SLOAN FLUSH VALVE, ZURN Z-1203-NL4 ADJUSTABLE HORIZONTAL SIPHON JET (NO HUB) OR APPROVED EQUAL
WC 2	WATER CLOSET	1"	-	3"	2"	CRANE 3-446E PLACIDUS, VITREOUS CHINA, 1.5 GALLON FLUSH #10 CC OLSONITE SEAT, #111 SLOAN FLUSH VALVE, ZURN Z-1203-NL4 ADJUSTABLE HORIZONTAL SIPHON JET (NO HUB) OR APPROVED EQUAL
UR 1	URINAL ACCESSIBLE	3/4"	-	2"	1 1/2"	CRANE C7-208 MANHATTAN LOW CONSUMPTION, VITREOUS CHINA, 1.0 GALLON FLUSH, SIPHON JET WITH INTEGRAL TRAP - SLOAN #186 REGAL FLUSHMETER, FLUSH VALVE #129 OR #130 OR APPROVED EQUAL
LV 1	LAVATORY ACCESSIBLE	1/2"	1/2"	2"	1 1/2"	CRANE HARWICH VITREOUS CHINA 1-412, ZURN "Z" DURA-COATED SYSTEM WITH CONCEALED ARMS (Z-1251 LAV WALL SUPPORT) OR #700 SERIES. FAUCET - BRASS NL 805 IPS LEVER HANDLE OR APPROVED EQUAL
LV 2	LAVATORY	1/2"	1/2"	2"	1 1/2"	CRANE HARWICH VITREOUS CHINA 1-412, ZURN "Z" DURA-COATED SYSTEM WITH CONCEALED ARMS (Z-1251 LAV WALL SUPPORT) OR #700 SERIES. FAUCET - BRASS NL 805 IPS LEVER HANDLE OR APPROVED EQUAL
PR 1	TYPICAL WALL PARTITION	-	-	-	-	THE EMBASSY-POWDER COATED METAL EVERHEAD BRACED, BAKED ENAMEL FINISH, MANUFACTURED BY GLOBAL STEEL PROD. OR APPROVED EQUAL
MR 1	MIRROR	-	-	-	-	SERIES 530 RETURNED MIRRORS STAINLESS STEEL - 18 GA, 18"x24" ("J" SHEET METAL - MANUFACTURED) OR APPROVED EQUAL
GB 1	GRAB BAR	-	-	-	-	MCKINNEY 9704-1-1/2" OC STAINLESS STEEL GRAB BAR SATIN FINISH 36" LONG IN BACK AND 42" ON SIDE OR APPROVED EQUAL
WHA 1	WATER HAMMER ARRESTOR	1"	-	-	-	PPP SC-1000
WH 1	WATER HEATER	1/2"	1/2"	-	-	40 GALLON GAS WATER HEATER
FD 1	FLOOR DRAIN	1/2"	-	2"	2"	FLOOR DRAIN WITH TRAP PRIMER Z415 TYPE B - PRIMER P2-500 WITH 8 X 8 LOCKABLE BOX

**FIXTURE SCHEDULE**

NOTE: WATER HEATER STRAPPING SHALL BE AT POINTS WITHIN THE UPPER ONE-THIRD LOWER ONE-THIRD (1/3) OF ITS VERTICAL DIMENSIONS. AT THE LOWER POINT, A MINIMUM (1/2) AND DISTANCE OF FOUR (4) INCHES SHALL BE MAINTAINED ABOVE THE CONTROLS WITH THE STRAPPING.

IDENTIFICATION STAMP  
 DIV. OF THE STATE ARCHITECT  
 A 03 1187 56  
 AC FLS SS JB  
 Date 11-02-2018



**WATER HEATER ANCHORAGE TO STUD WALL**

REVISIONS		Electrical Engineer's Seal	Mechanical Engineer's Seal	Structural Engineer's Seal	Architect's Seal
CM	ADDED NEW SHEET PER JOB #4094	3/15/02			
MG	PLUMBING REVISED FROM P.C. PER JOB #4094	5/23/02			

Professional Engineer's Seal: Structural Engineer, State of California, No. 2998, Exp. 6-30-20.

IDENTIFICATION STAMP: DIV. OF THE STATE ARCHITECT, OFFICE OF REGULATION SERVICES. AC FLS SS JB. DATE: 11-02-2018.

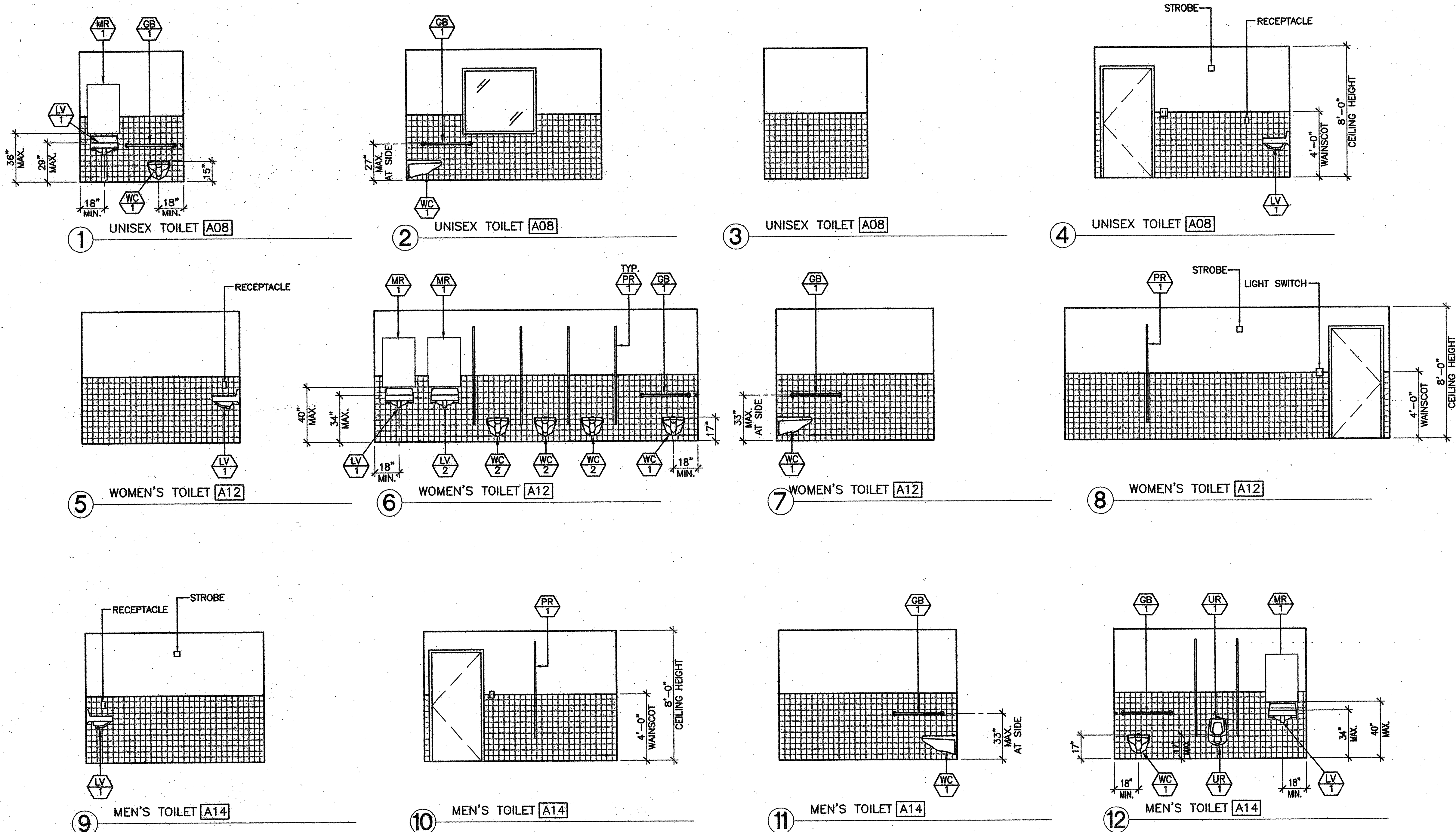
**MODTECH INC.**  
 2830 BARRETT AVENUE  
 PERRIS, CALIF. 92572  
 PH (909) 943-4014  
 FAX (909) 940-0427

PROJECT NUMBER: 4094  
 OAK PARK UNIFIED SCHOOL DISTRICT  
 BROOKSIDE ELEMENTARY SCHOOL  
 (1) 72' x 40' ADMINISTRATION BLDG.

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DRAWN BY: CM  
 DATE: 3/15/02  
 CHECKED BY: SW  
 DATE: 1/5/2018

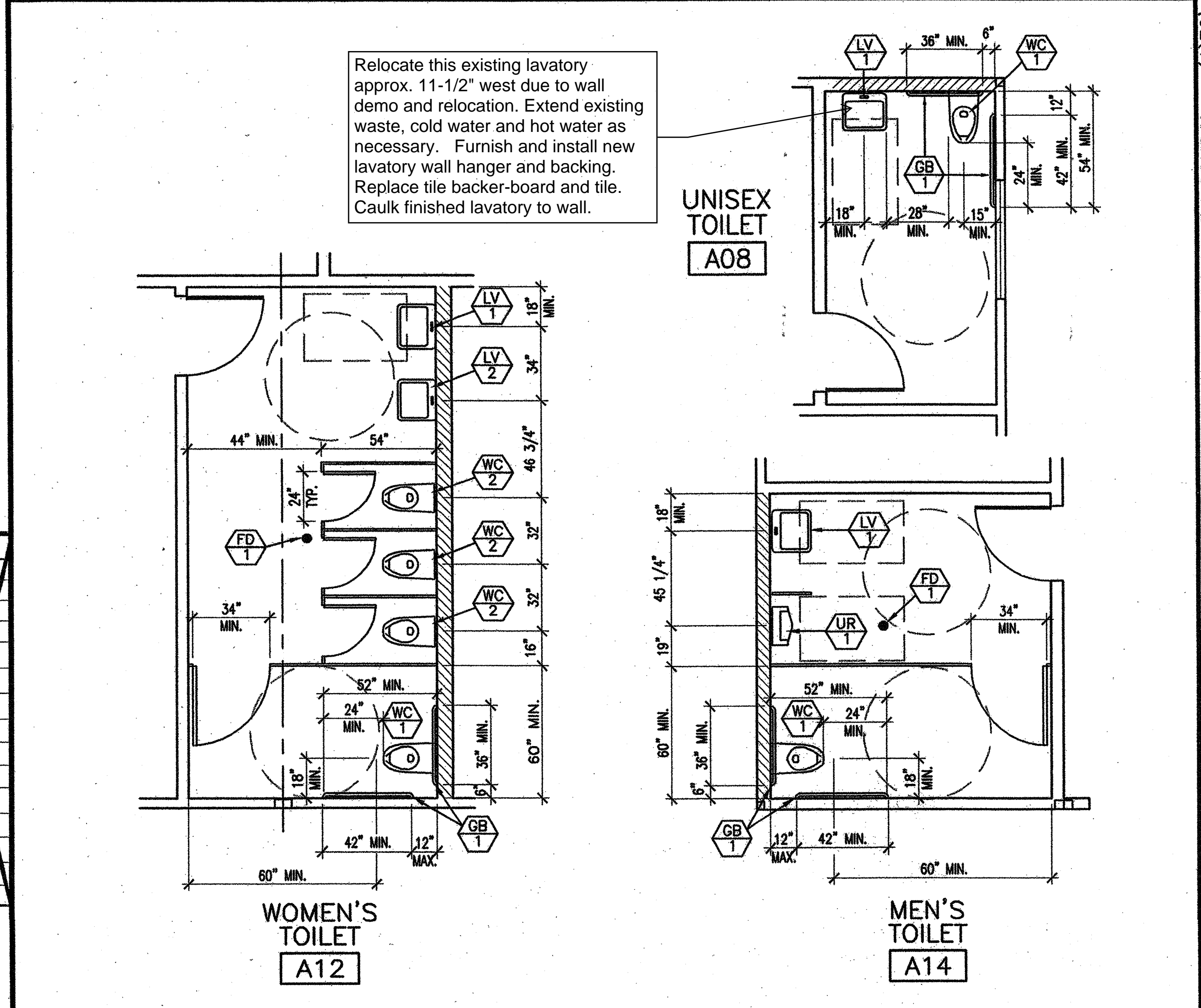
MODTECH Index No. **P1.03**



ITEM	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	DESCRIPTION
WC 1	WATER CLOSET ACCESSIBLE	1"	-	3"	2"	CRANE 3-448E PLACIDUS, VITREOUS CHINA, 1.5 GALLON FLUSH #10 CC OLSONITE SEAT, #111 SLOAN FLUSH VALVE, ZURN Z-1203-NL4 ADJUSTABLE HORIZONTAL SIPHON JET (NO HUB) OR APPROVED EQUAL
WC 2	WATER CLOSET	1"	-	3"	2"	CRANE 3-448E PLACIDUS, VITREOUS CHINA, 1.5 GALLON FLUSH #10 CC OLSONITE SEAT, #111 SLOAN FLUSH VALVE, ZURN Z-1203-NL4 ADJUSTABLE HORIZONTAL SIPHON JET (NO HUB) OR APPROVED EQUAL
UR 1	URINAL ACCESSIBLE	3/4"	-	2"	1 1/2"	CRANE C7-209 MANHATTAN LOW CONSUMPTION, VITREOUS CHINA, 1.0 GALLON FLUSH, SIPHON JET WITH INTEGRAL TRAP - SLOAN #186 REGAL FLUSHMETER, FLUSH VALVE #129 OR #130 OR APPROVED EQUAL
LV 1	LAVATORY ACCESSIBLE	1/2"	1/2"	2"	1 1/2"	CRANE HARWICH VITREOUS CHINA 1-412, ZURN "Z" DURA-COATED SYSTEM WITH CONCEALED ARMS (Z-1251 LAV WALL SUPPORT) OR #700 SERIES. FAUCET - BRASS NL 805 IPS LEVER HANDLE OR APPROVED EQUAL
LV 2	LAVATORY	1/2"	1/2"	2"	1 1/2"	CRANE HARWICH VITREOUS CHINA 1-412, ZURN "Z" DURA-COATED SYSTEM WITH CONCEALED ARMS (Z-1251 LAV WALL SUPPORT) OR #700 SERIES. FAUCET - BRASS NL 805 IPS LEVER HANDLE OR APPROVED EQUAL
PT	TYPICAL WALL PARTITION	-	-	-	-	THE EMBASSY-POWDER COATED METAL EVERHEAD BRACED, BAKED ENAMEL FINISH, MANUFACTURED BY GLOBAL STEEL PROD. OR APPROVED EQUAL
MR 1	MIRROR	-	-	-	-	SERIES 530 RETURNED MIRRORS STAINLESS STEEL - 18 GA, 18"x24" ("J" SHEET METAL - MANUFACTURED) OR APPROVED EQUAL
GB 1	GRAB BAR	-	-	-	-	MCKINNEY 9704-1-1/2" OC STAINLESS STEEL GRAB BAR SATIN FINISH. 36" LONG IN BACK AND 42" ON SIDE OR APPROVED EQUAL
WHA 1	WATER HAMMER ARRESTOR	1"	-	-	-	PPP SC-1000
WH 1	WATER HEATER	1/2"	1/2"	-	-	40 GALLON GAS WATER HEATER
FD 1	FLOOR DRAIN	1/2"	-	2"	2"	FLOOR DRAIN WITH TRAP PRIMER Z415 TYPE B - PRIMER P2-500 WITH 8 X 8 LOCKABLE BOX

IDENTIFICATION:  
DIV. OF THE ST. - CT  
A 03 118756  
AC FLS SS TB  
Date 102-2018

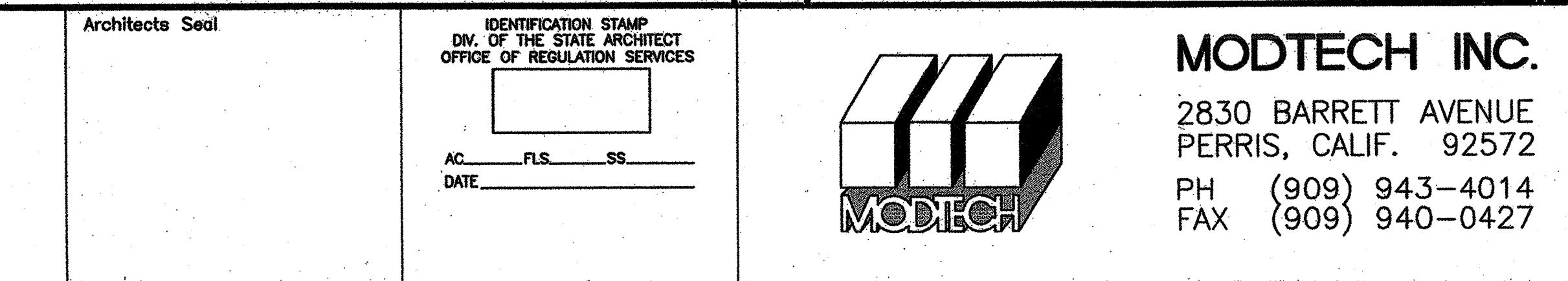
**FIXTURE SCHEDULE**



	A	E	K
TOILET CENTER FROM WALL	18"	15"	12"
TOILET SEAT HEIGHT	17"-19"	15"	10"-12"
GRAB BAR HEIGHT (SIDE)	33"	27"	20"-22"
TOILET PAPER IN FRONT OF TOILET	12" MAX	6" MAX	6" MAX
NAPKIN DISPOSAL IN FRONT OF TOILET	12" MAX	12" MAX	N/A
DISPENSER OR MIRROR HEIGHT	40" MAX	36" MAX	32" MAX
LAVATORY/SINK TOP HEIGHT	34" MAX	29" MAX	24" MAX
LAVATORY/SINK KNEE HEIGHT	27" MAX	24" MAX	19" MAX
SINK DEPTH	7" MAX	5" MAX	5" MAX
URINAL LIP HEIGHT	17" MAX	15" MAX	13" MAX
URINAL FLUSH HANDLE HEIGHT	44" MAX	37" MAX	32" MAX
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX	32" MAX	30" MAX
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN	24" MIN	22" MIN
BUBBLER HEIGHT	2"	3"	6"
RAMP/STAIR HANDRAIL HEIGHT	34"-38"	27"	22"

A = ADULT DIMENSIONS (AGE 12 AND OVER)  
E = ELEMENTARY DIMENSIONS  
K = KINDERGARTEN AND PRE-SCHOOL DIMENSIONS  
\* = DEVIATES FROM CODE REQUIREMENTS AND REQUIRES A WRITTEN FINDING OF UNREASONABLE HARDSHIP  
NOTE: DIMENSIONS FROM 1998 CBC TABLE 1115B-1

**GRAB BAR SECTION**



**REVISIONS**

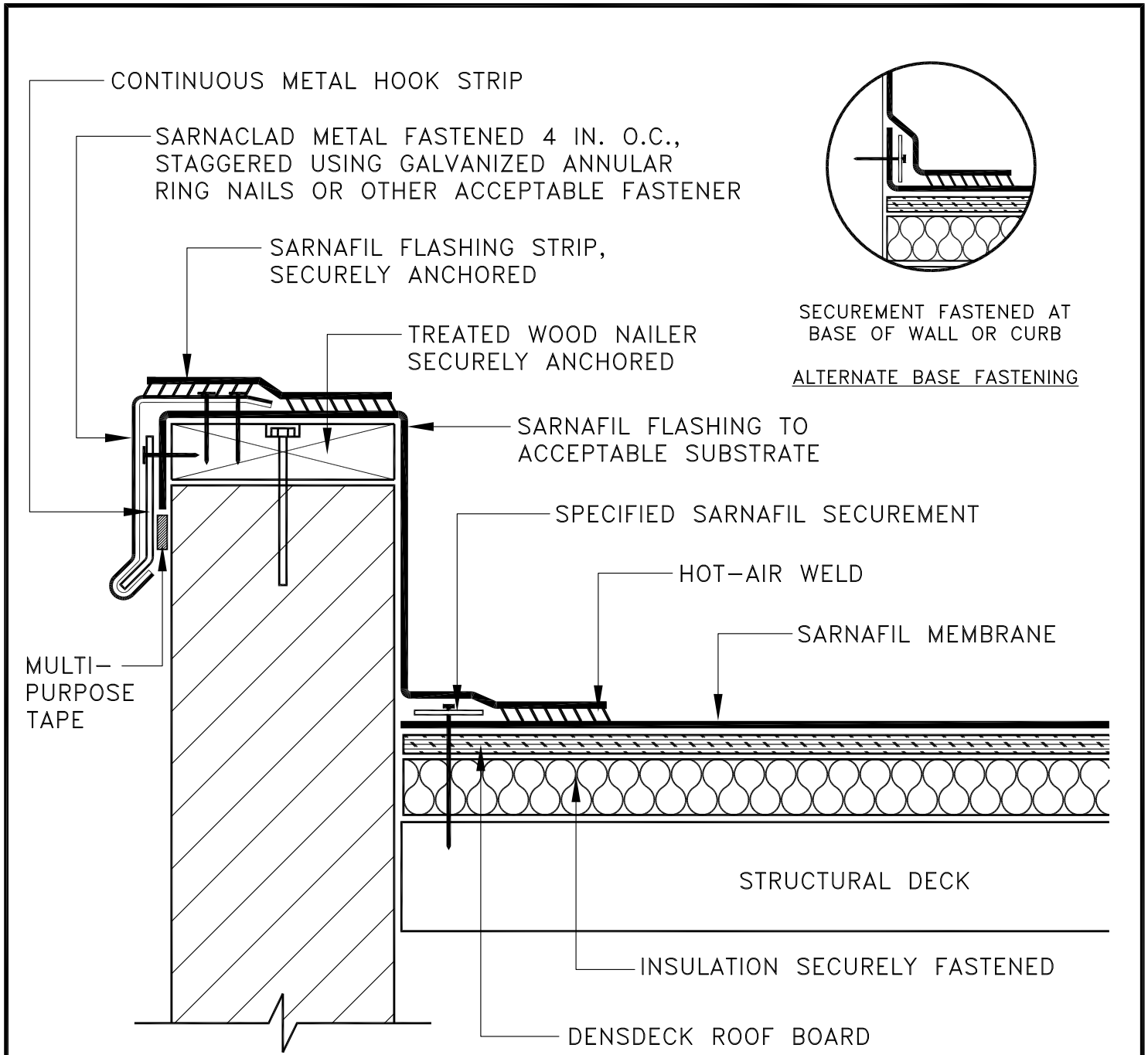
NO.	DESCRIPTION	DATE
1	CM ADDED NEW SHEET PER JOB #4094	3/15/02
2		
3		
4		
5		
6		

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  
AC FLS SS TB  
DATE

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

**PLUMBING PLAN**  
PROJECT NUMBER: 4094  
OAK PARK UNIFIED SCHOOL DISTRICT  
BROOKSIDE ELEMENTARY SCHOOL  
© MODTECH, INC. 2001  
(1) 72' x 40' ADMINISTRATION BLDG.  
DRAWN BY: CM  
DATE: 3/15/02  
CHECKED BY: SW  
DATE: 1/5/2018  
MODTECH Index No.  
**P104**







**NOTES:**

- 1) NAILERS SHALL BE SECURELY ANCHORED TO THE DECK TO RESIST A MINIMUM FORCE OF 300 POUNDS PER LINEAR FOOT. REFER TO FACTORY MUTUAL DATA SHEET 1-49.
- 2) APPROVED FOR SIKAPLAN AND SIKAPLAN NDL WARRANTIES.

# PARAPET WALL WITH SARNAFLASH METAL

  <p>781-828-5400 sikacorp.com</p>	JOB NAME:		XXX	
	SCALE: N.T.S.		DATE: 01/12	FILE NO.: 2-1

AS A MEMBRANE MANUFACTURER, SIKA SARNAFIL, A DIVISION OF SIKA CORPORATION REVIEWS DETAILS PREPARED BY THE CONSULTANT, ARCHITECT AND/OR ENGINEER FOR A PROJECT SOLELY FOR THE PURPOSE OF DETERMINING IF A SIKA SARNAFIL WARRANTY MAY ISSUE FOR THE PROJECT. THIS REVIEW IS NOT TO BE CONSTRUED AS APPROVAL OF DETAILS BY SIKA SARNAFIL AND IS NOT BEING CONDUCTED IN LIEU OF SOUND ENGINEERING AND ARCHITECTURAL PRACTICES AND JUDGMENT AND SHOULD NOT BE RELIED UPON FOR THAT PURPOSE. SIKA CORPORATION ASSUMES NO LIABILITY WITH RESPECT TO THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, THE ARCHITECT, CONSULTANT AND/OR ENGINEER OR DESIGN PROFESSIONAL FOR A PARTICULAR PROJECT BEARS THE SOLE RESPONSIBILITY FOR THE DESIGN OF THE ROOFING OR WATERPROOFING SYSTEM, FOR THE PREPARATION AND APPROVAL OF THE DETAILS AND SHOP DRAWINGS, AND FOR DETERMINING THEIR SUITABILITY FOR A PARTICULAR PROJECT OR APPLICATION. WHILE SIKA SARNAFIL PROVIDES GENERAL INSTRUCTIONS FOR THE INSTALLATION OF ITS MEMBRANE AS WELL AS TRAINING FOR SIKA SARNAFIL AUTHORIZED APPLICATORS, THE MEANS AND METHODS USED BY THE CONTRACTOR FOR SURFACE PREPARATION AS WELL AS THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR IN THE INSTALLATION OF THE SIKA SARNAFIL MEMBRANE ARE THE RESPONSIBILITY OF THE CONTRACTOR.