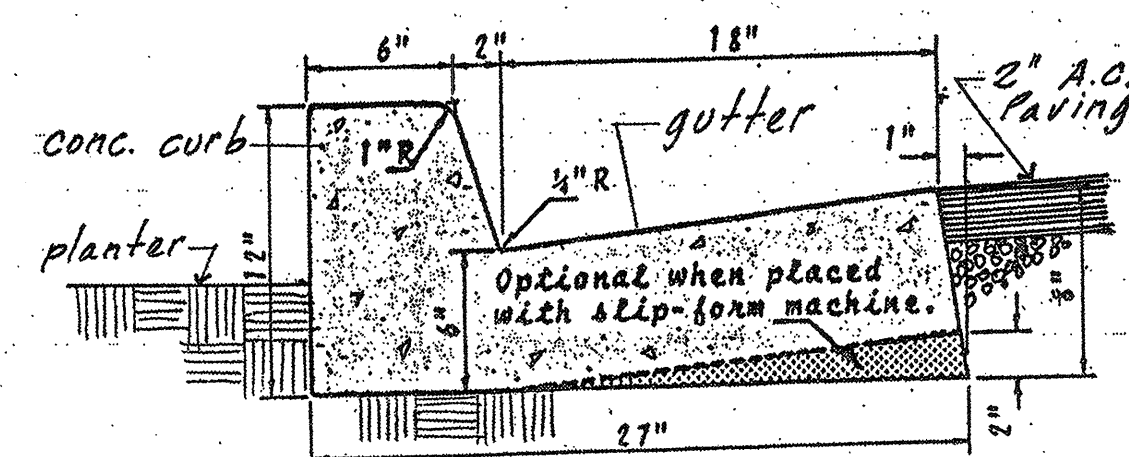
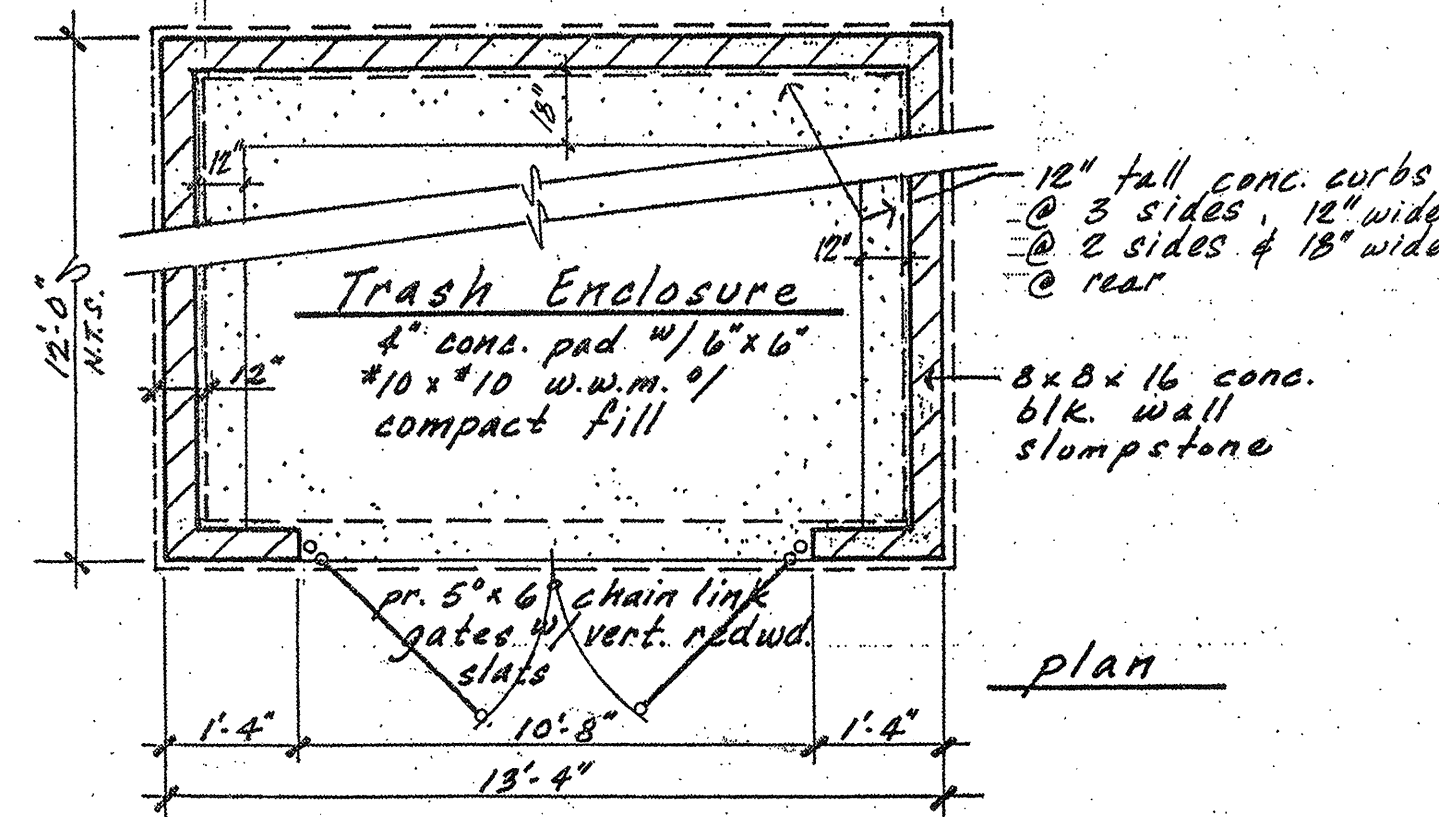
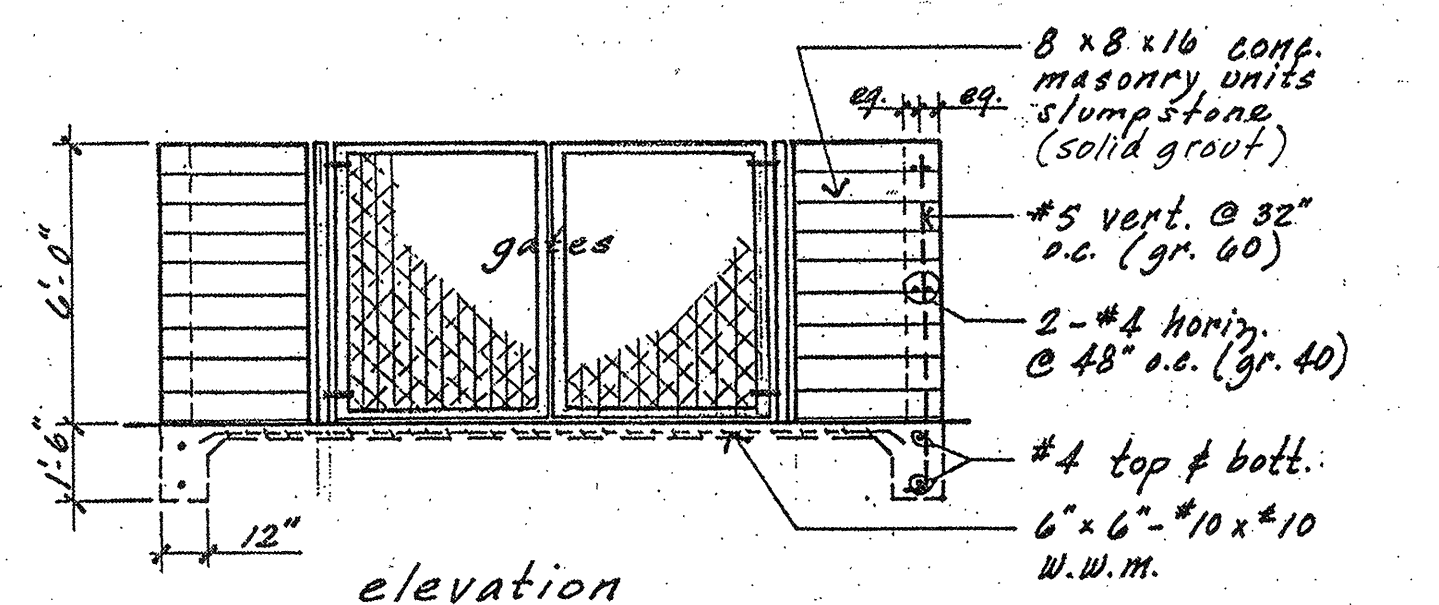


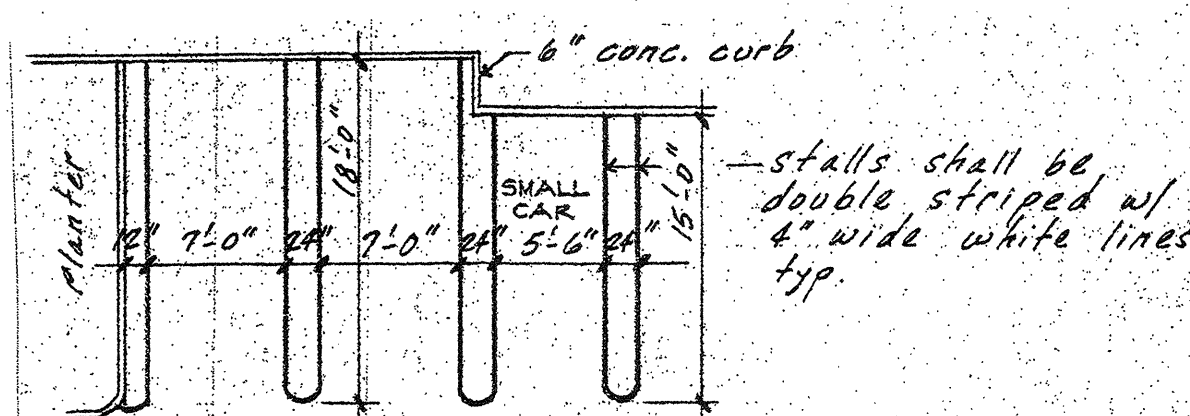


Corb - Gutter

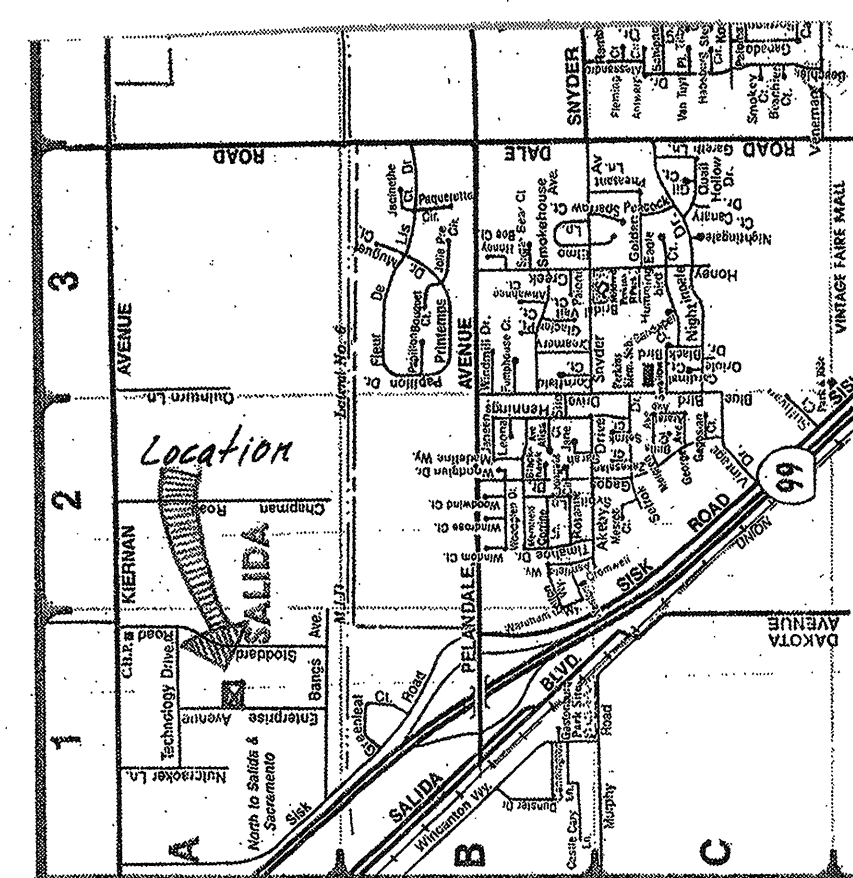


Detail

N.T.S



Typ. Parking Stalls
per Stan. Co. Standards

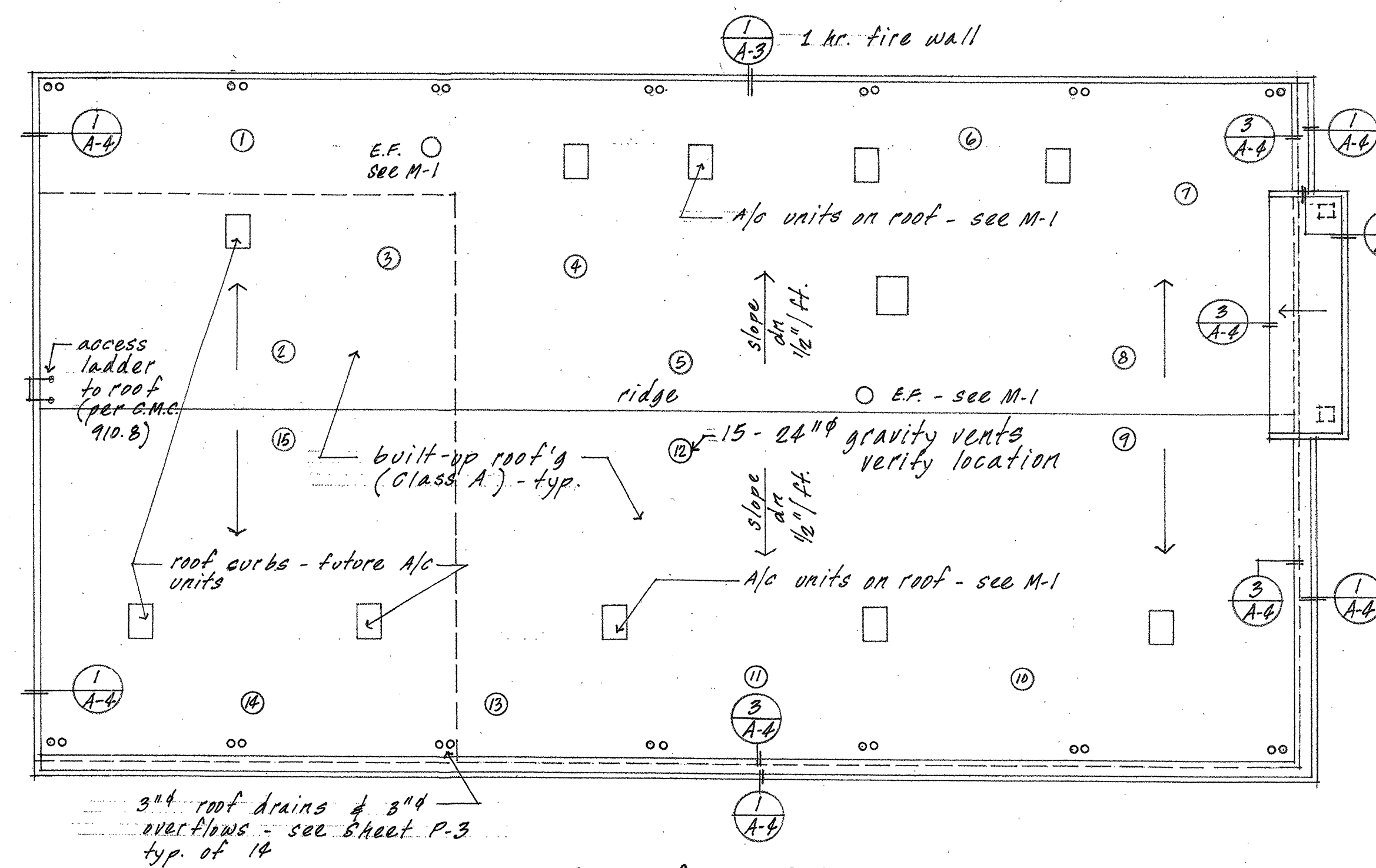


Location Map
NTS

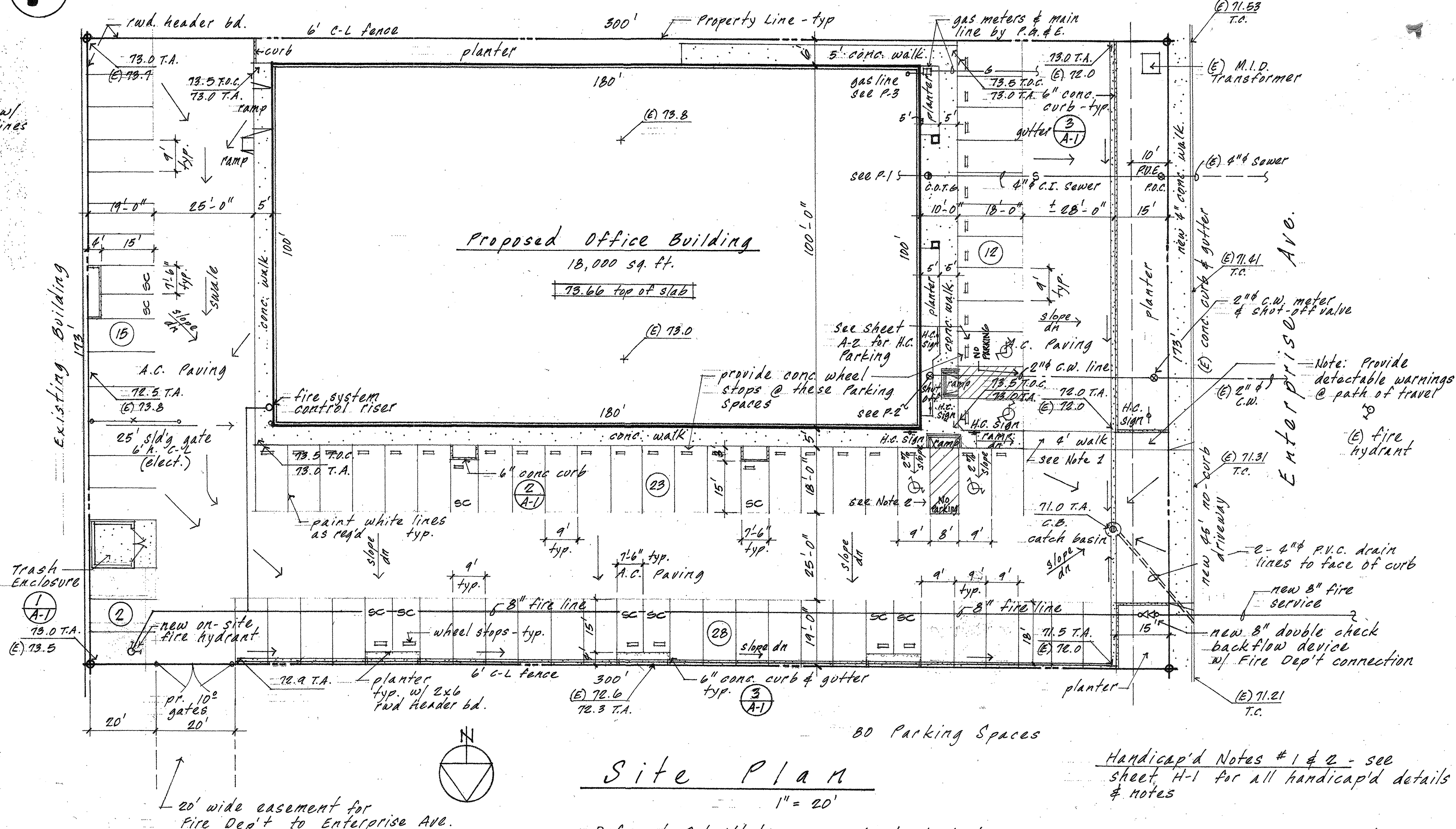
INDEX TO DRAWINGS

- A1 - Site Plan, Roof Plan & Details
- A2 - Floor Plan & Notes
- A3 - Exterior Elevations & Details
- A4 - Cross Sections & Details
- A5 - Interior Elevations, Door & Window
- A6 - Mail, Restroom Plans
- A6 - Reflected Ceiling Plan & Details
- H1 - Accessibility Standards
- S0.1 - Typical Structural Notes & Details
- S2.1 - Foundation Plan & Details
- S2.2 - Roof Framing Plan & Details
- S8.1 - Structural Details
- P1 - Sewer Plan
- P2 - Water Plan
- P3 - GAS PLAN
- P4 - Plumbing Details

- M-1 - Air Distribution Plan
- M-2 - Equipment Notes & Details
- M-3-4 Title 24 Forms
 - E1 - Lighting Plan & Details
 - E2-3 Power Plan & Details
 - E4 - Power Roof Plan
 - E5 - One Line Diagram & Panel Schedules
- E6 - Title 24 Forms, Notes & Details
- L-1 - Irrigation & Landscaping Plans & Notes



Roof Plan $\frac{1}{16}'' = 1'-0''$



Site Plan

$$1'' = 20'$$

Deferred Submittals - see Structural Sheet SO.1,
Note B, Open Web Steel Joists, Metal Plate
Wood Trusses.

Handicap'd Notes #1 & 2 - see
sheet H-1 for all handicap'd details
& notes

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10-27-04

at. b. 11.

Sheet No.

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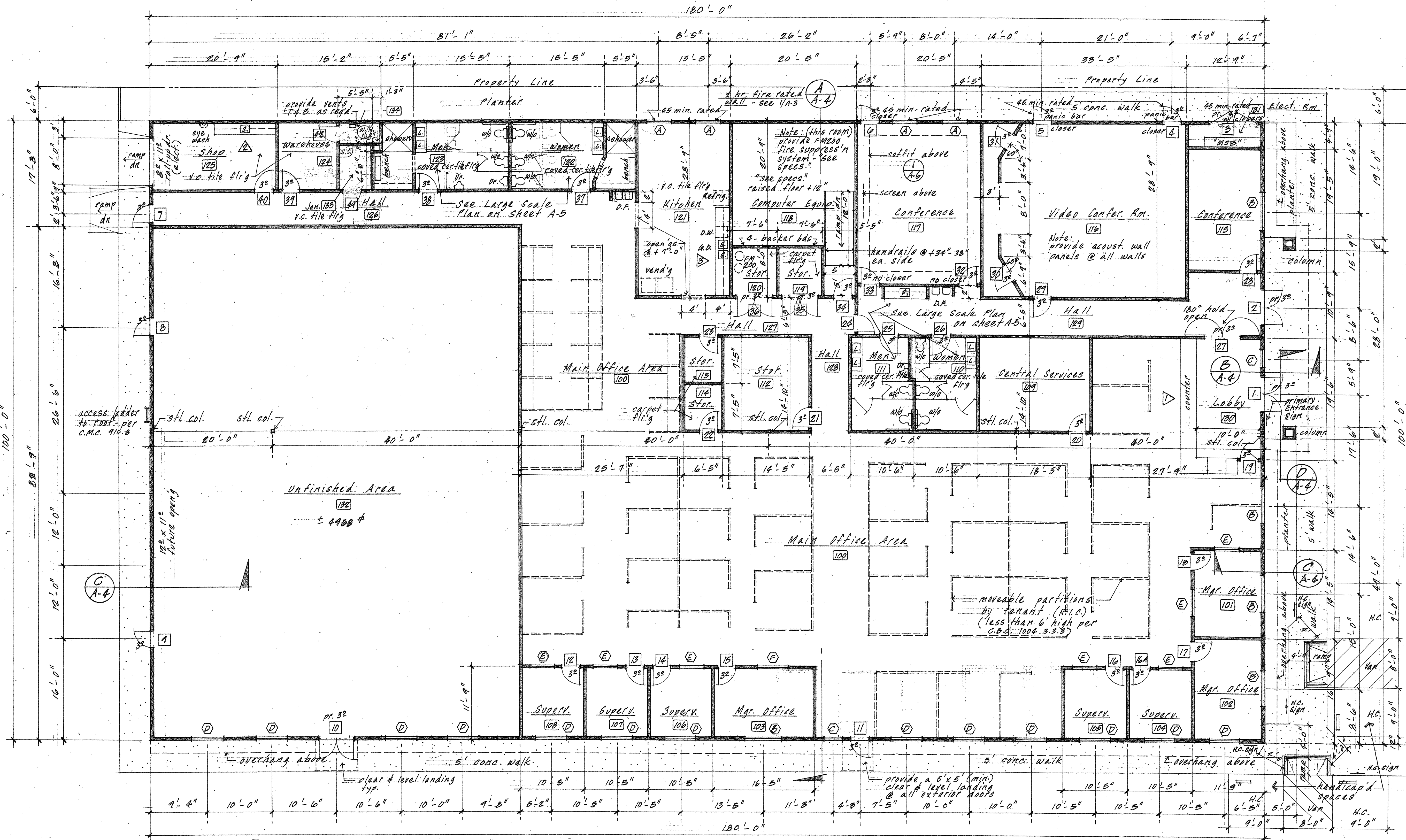
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- WINDOW SCHEDULE**
- Exterior**
- (A) - 4'-0" W. x 4'-0" H. nail-on steel frame and double glazed wire glass, 45 min. fire rated.
 - (B) - 6'-0" W. x 4'-0" H. nail-on aluminum frame and double glazed double strength glass, mill finish.
 - (C) - 3'-0" W. x 4'-0" H. nail-on aluminum frame and 1/4" tempered plate glass, mill finish.
 - (D) - 5'-0" W. x 4'-0" H. nail-on aluminum frame and double glazed double strength glass, mill finish.
- Interior**
- (E) - 4'-0" W. x 4'-0" H. nail-on aluminum frame and 1/4" tempered plate glass, mill finish.
 - (F) - 5'-0" W. x 4'-0" H. nail-on aluminum frame and double glazed double strength glass, mill finish.
- DOOR SCHEDULE**
- 1, 2 - pr. 3'-0" x 7'-0" aluminum and glass doors w/1/4" tempered glass. See Specs.
 - 3 - pr. 4'-0" x 6'-8" steel door and frame. 45 min. fire rated.
 - 4, 5 - 3'-0" x 6'-8" steel doors and frames. 45 min. fire rated.
 - 7, 8 - 3'-0" x 6'-8" Steel doors and frames.
 - 11 - 3'-0" x 7'-0" aluminum and glass door w/1/4" tempered glass. See Specs.
 - 12 thru 26 - 3'-0" x 6'-8" solid core wood door and steel frame.
 - 27 - pr. 3'-0" x 6'-8" solid core wood doors and steel frame
 - 28 thru 34 - 3'-0" x 6'-8" solid core wood door and steel frame
- NOTE:** Provide 6" x 24" view window in the door at Door Nos. 28, 32, 33 and 34. (wire glass @ door #34)
- HARDWARE**
- Provide locksets on all doors except push and pull hardware at Door Nos. 25, 26, 37 and 38. Door No. 34 shall have a special push button type lockset. Verify with tenant. Provide closer @ all fire rated doors

Building Code Analysis:

- Occupancy Type
Office Area - 13000 sq. ft. = B
Unfinished Area - 5000 sq. ft. = future B
- One Story
- Construction Type = 5N with an automatic fire sprinkler system
- Allowable Floor Area = 8000 sq. ft. x 3 (fire sprinklers) = 24000 sq. ft. This building is only 18000 sq. ft.
- Occupant Load
Office Area = 7100 sq. ft. ÷ 100 = 71 people
Kitchen/Lunch Rm. = 420 sq. ft. ÷ 15 = 28 people
Total = 99 people
(omit Restrooms, Halls, Storage Rms., Shop and Warehouse)
Separate Use Area - separate entrances and exits.
Conference = 520 sq. ft. ÷ 15 = 35 people (half of the people exit to the exterior)
35 ÷ 2 = 18 people
Video Conference Rm. = 924 sq. ft. ÷ 15 = 62 people (all exit to the exterior)
Conference = 180 sq. ft. ÷ 15 = 12 people
Total = 30 people

- SYMBOLS**
- 2 x 6 @ 16" o.c. - wood stud walls w/stucco finish @ exterior and 5/8" gyp. bd. finish @ Interior w/R-19 insulation. Type "X" @ 1 Hr. Wall
 - 3-5/8" x 25 ga. stl. studs @ 16" o.c. w/5/8" gyp. bd. finish each side w/sound batts (textured and painted finish)
 - stl. door frame w/solid core door (6'-8" high), painted w/lever lockset hardware (handicapped) (hollow core steel doors @ exterior)
 - water closet (handicapped) - See Plumbing Plan
 - 12" x 14" lavatory or s.s. sink See Plumbing Plan
 - Urinal - See Plumbing Plan
 - Drinking fountain - See Plumbing Plan
 - Room number
 - Door number - See Sheet A-5
 - Window number - See Sheet A-5
 - New Item
 - Interior Elevations (cabinets) - see A-5

FLOOR PLAN
18,000 sq. ft. 1/8" = 1'-0"

See Sheet A-5 for Door & Window Details & Interior Elevations

Room # 118 only - provide a FM200 Fire Suppression System (no Fire Sprinklers) see Specs. - provide fire rated walls & 5/8" gyp. bd. ceiling at the bottom of roof joists w/ sealed penetrations

Note: Provide Primary Entrance Signage & Tactile Exit Signs per C.B.C. 1003.2.B.6.1

See Sheet H-1 for all Handicap'd Notes & Details

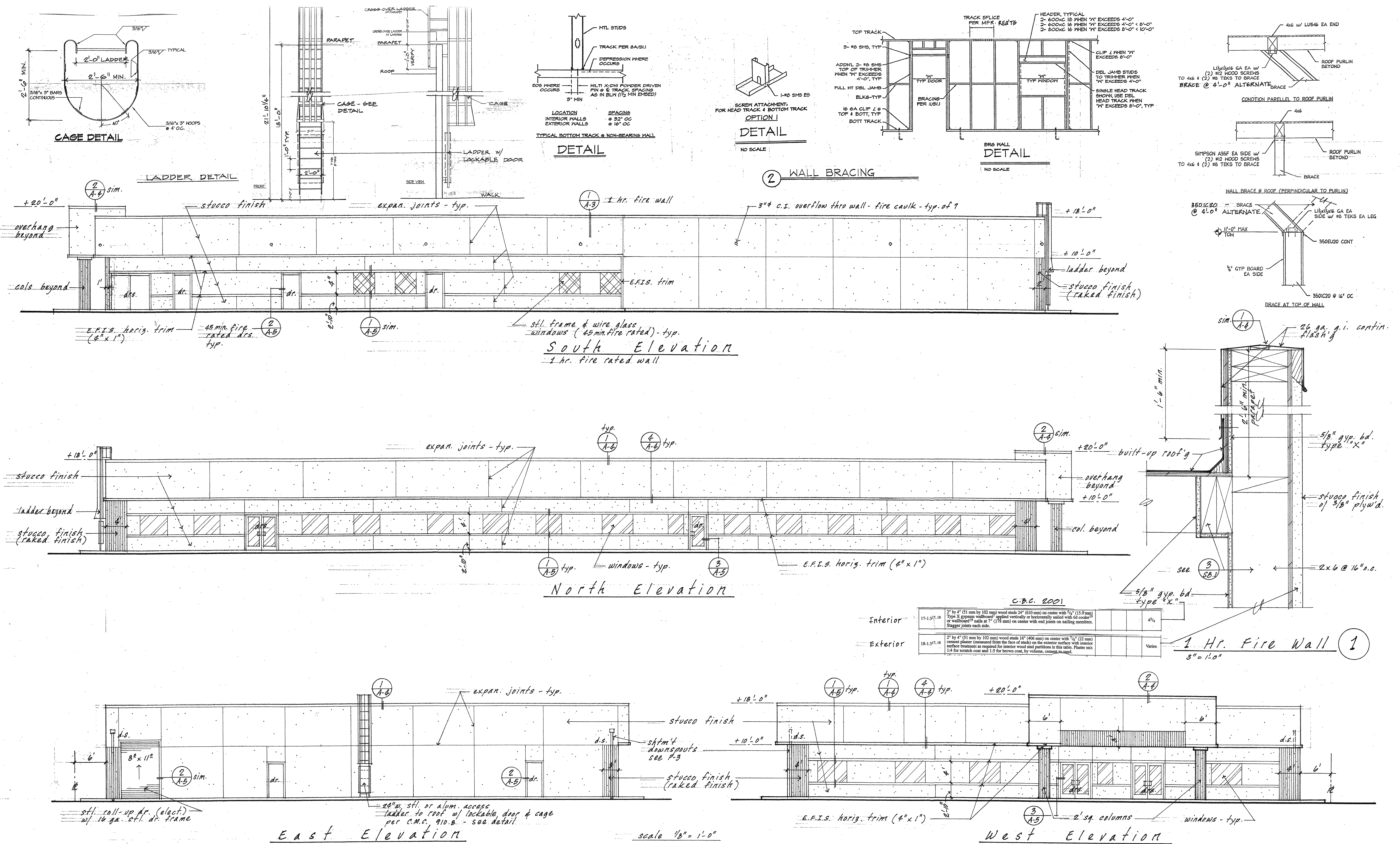
NOTE: Fire sprinklers - Separate permit for fire sprinkler system shall be obtained from Stanislaus Consolidated Fire Protection District. Submit 3 sets of fire sprinkler system plans to the district office at 3705 Oakdale Road, Modesto, CA 95357 to obtain the required permit.

AUTOMATIC FIRE SPRINKLER SYSTEM
The Automatic Fire Sprinkler System Contractor shall provide an approved automatic fire sprinkler system at all areas of the Market and Future Tenant Building. These systems shall be installed as per Chapter 9, 1997 UBC and NFPA-13. The sprinkler contractor shall provide shop drawings to be approved by the local Fire Dept. and Building Dept. All valves controlling sprinkler system water supply and flow shall be electrically monitored and the signal shall be automatically transmitted to a UL listed station when the number of heads exceeds 100, MFC 1003.3.1.

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10-27-04
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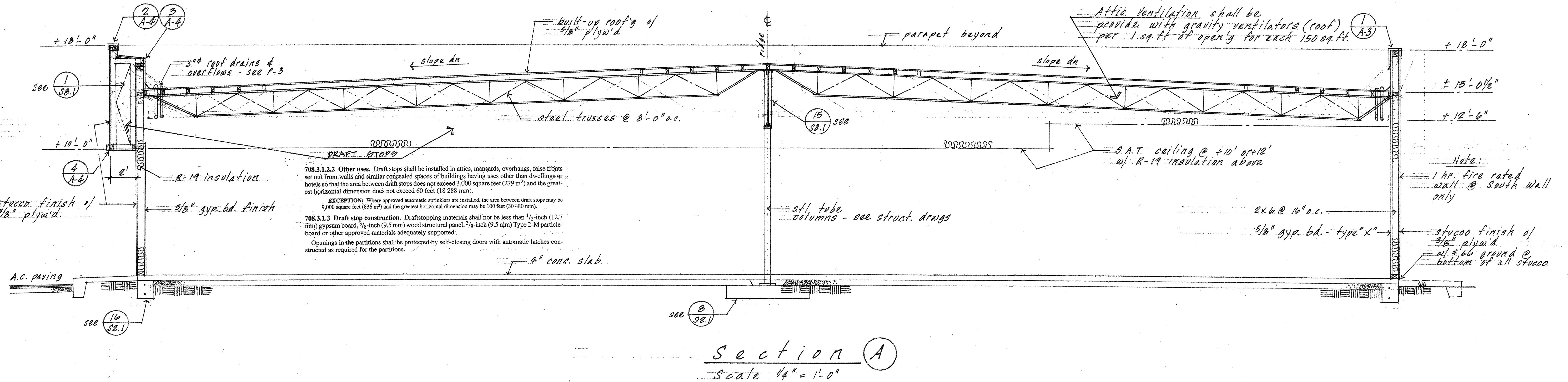
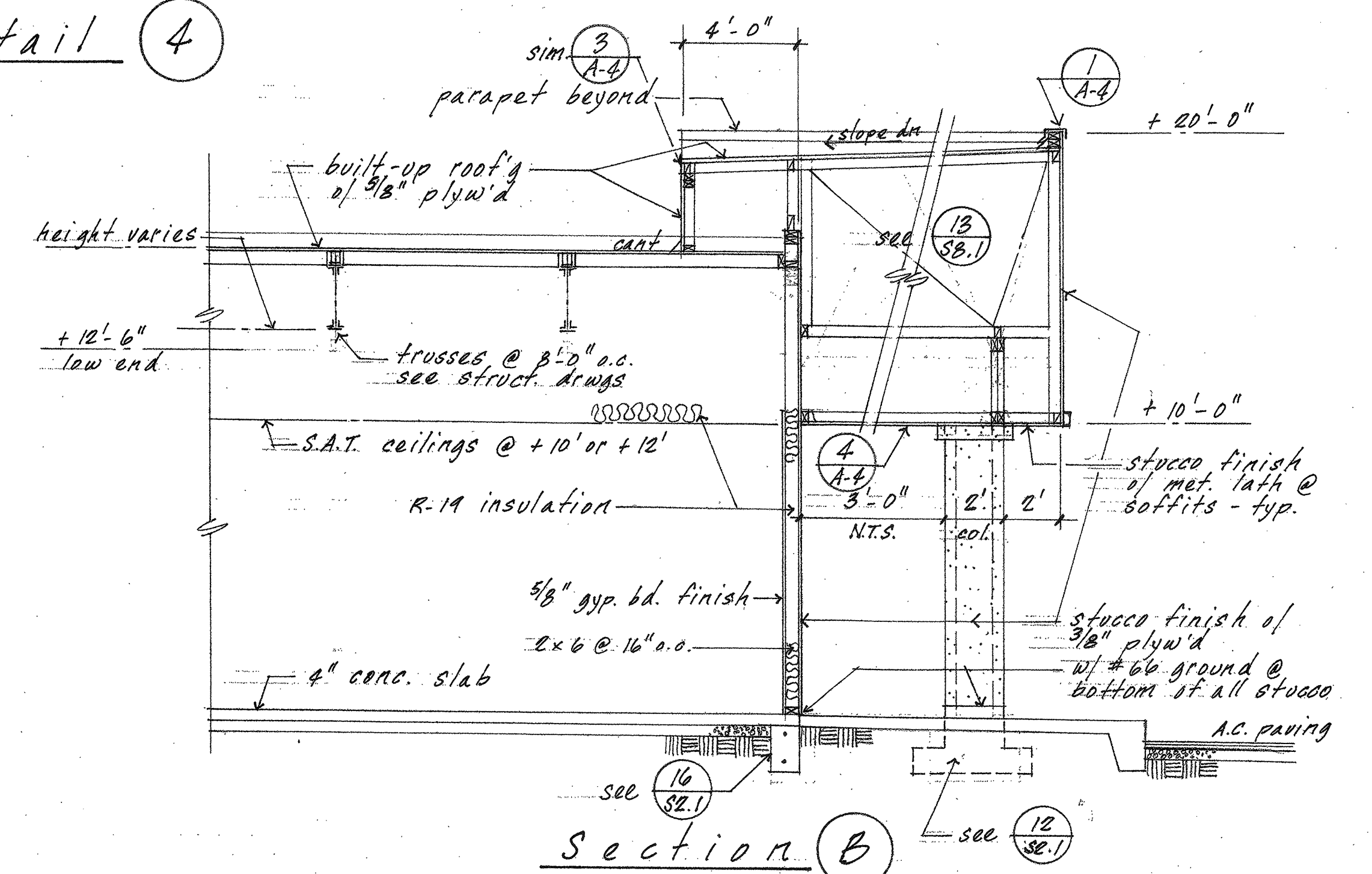
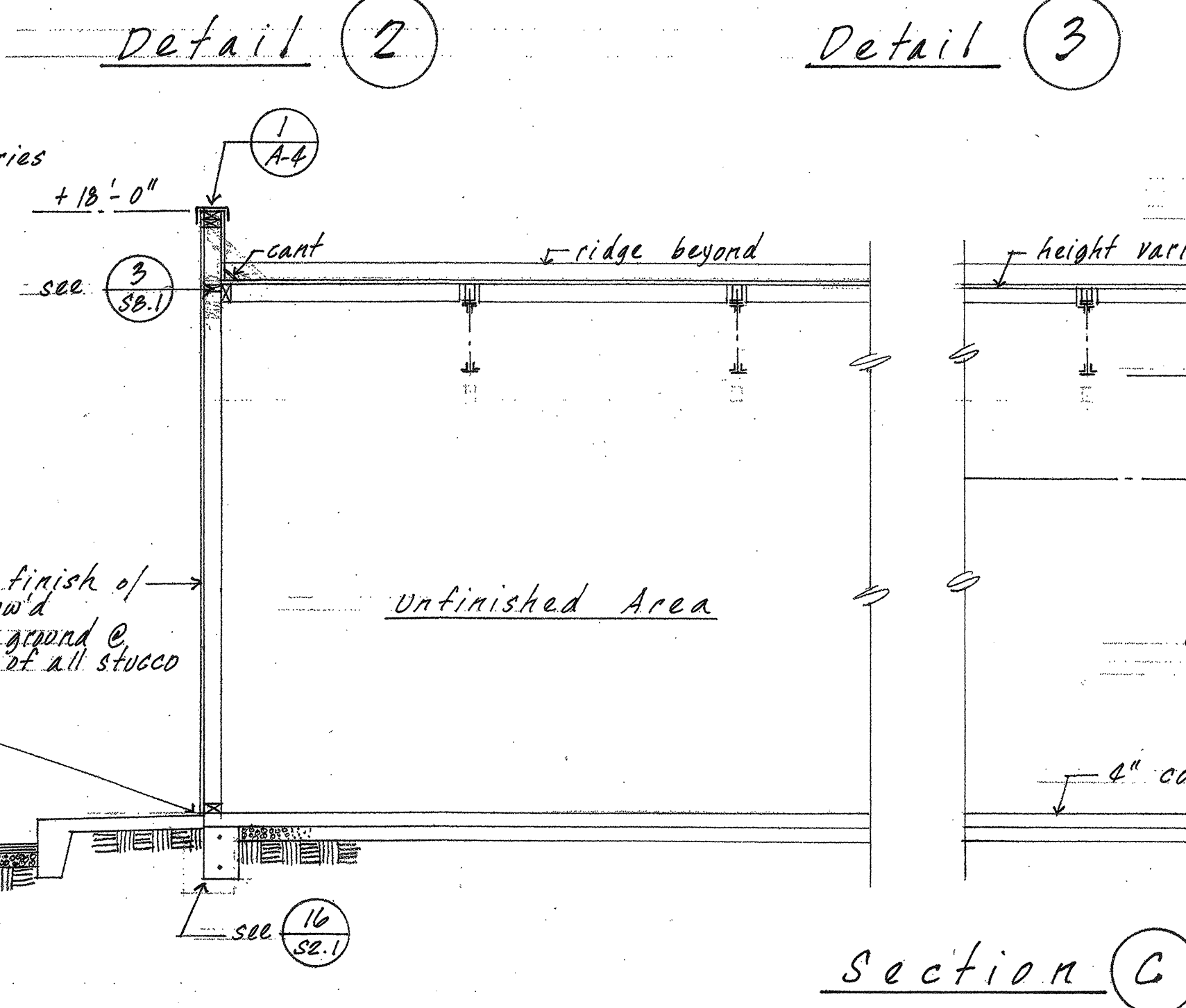
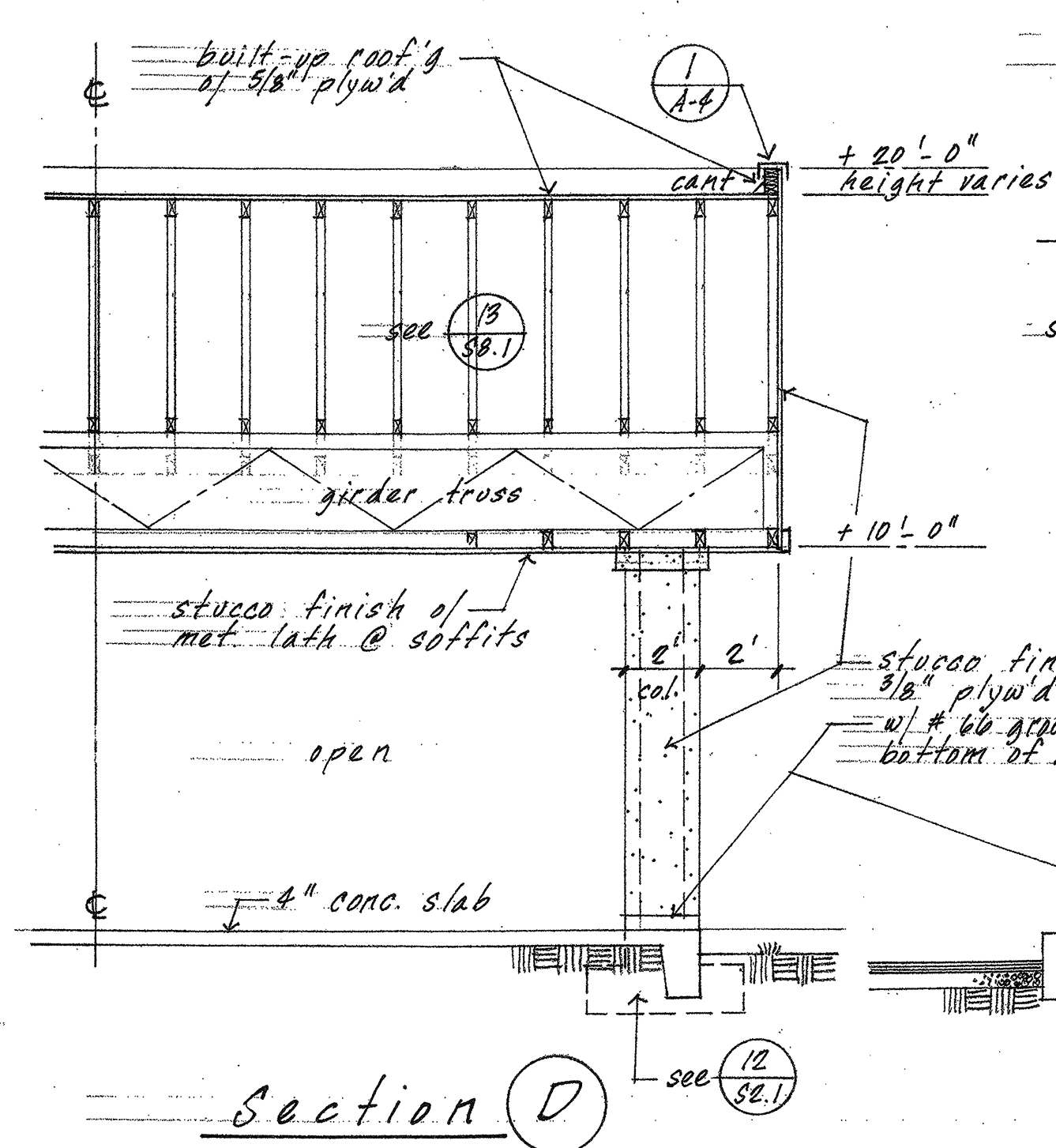
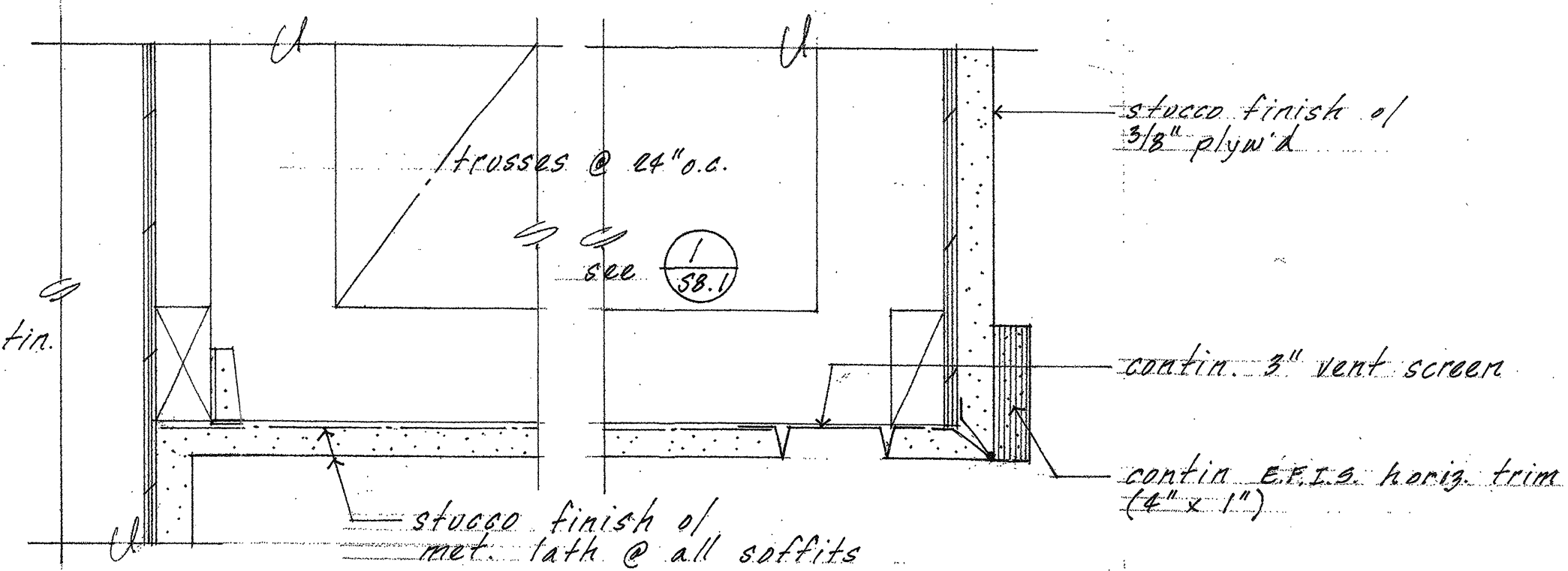
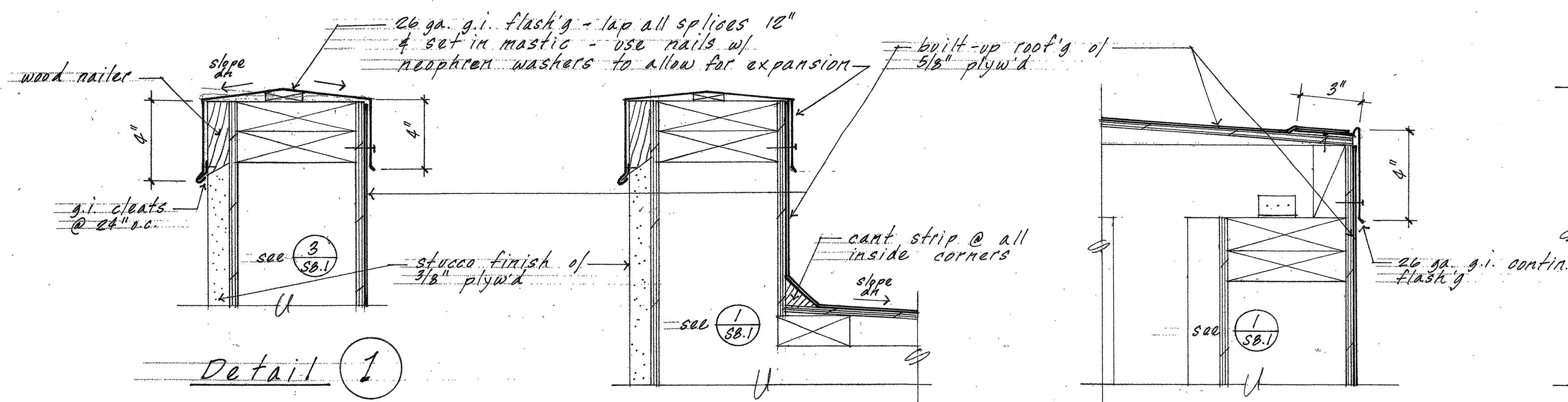
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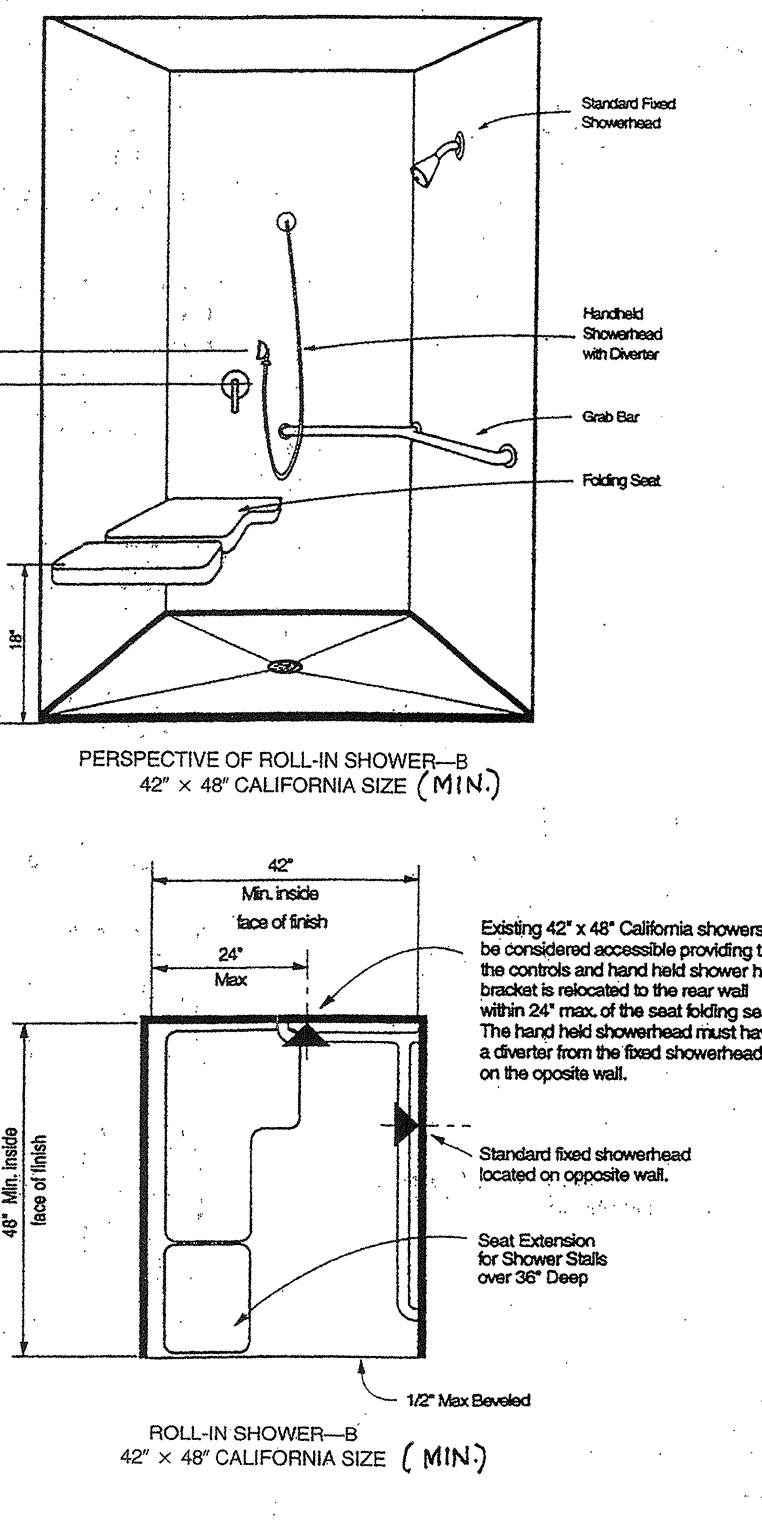
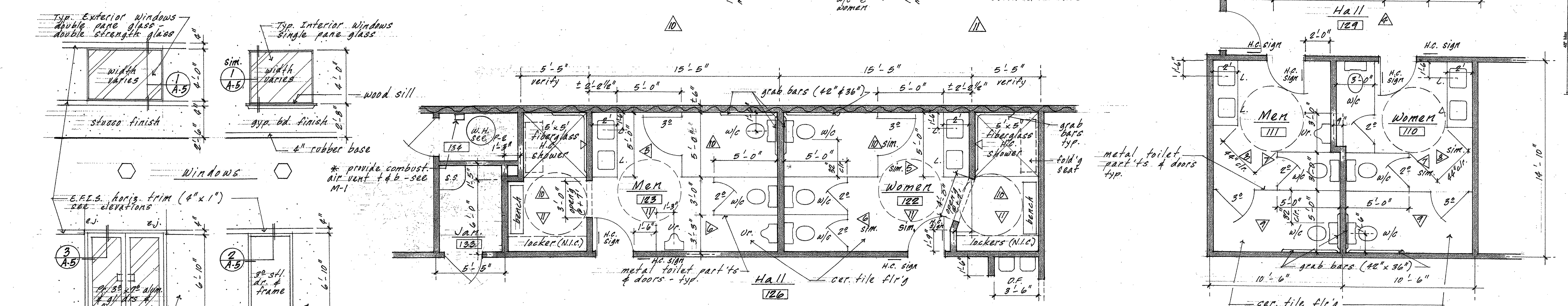
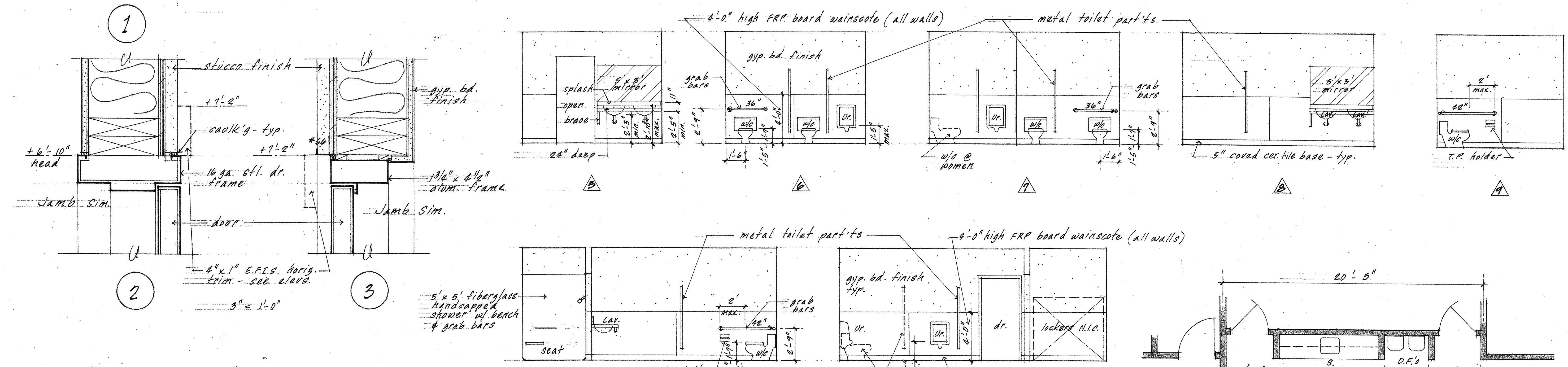
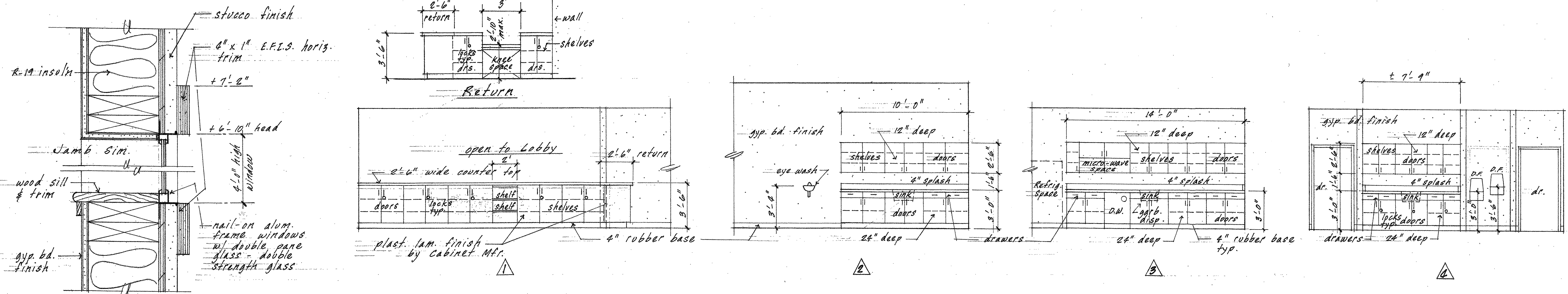


10-27-04

Sheet No.

A-4

Of Sheets



See Sheet H-1 for all handicap'd signs, dimensions & notes

Restroom Floor Plans

MIN. HANDICAP'D SHOWER

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10-27-04

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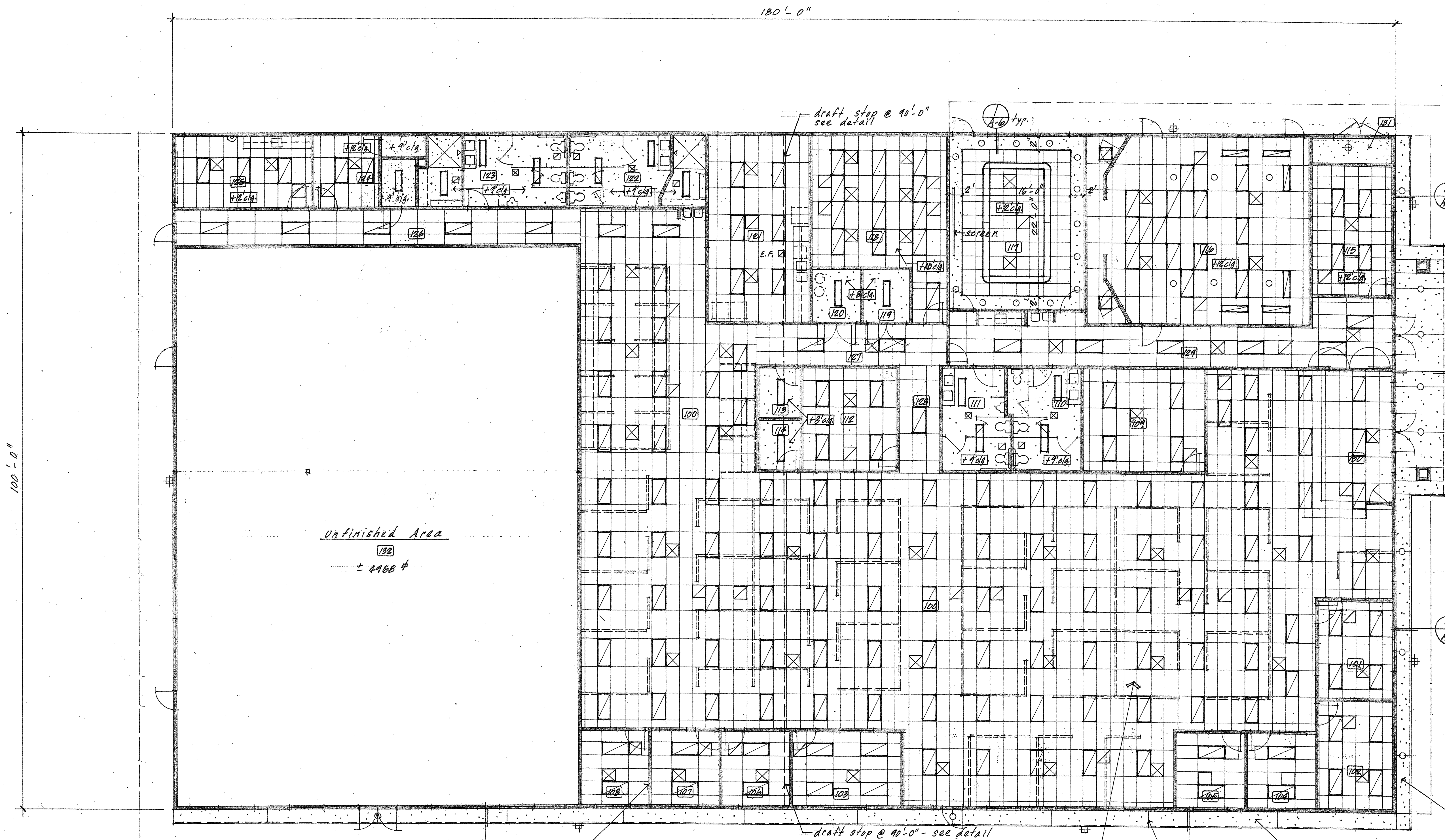
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Sheet No.

A-5

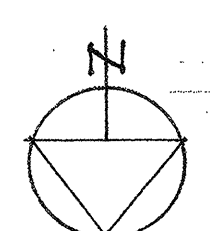
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Unfinished Area
± 4168 sq. ft.

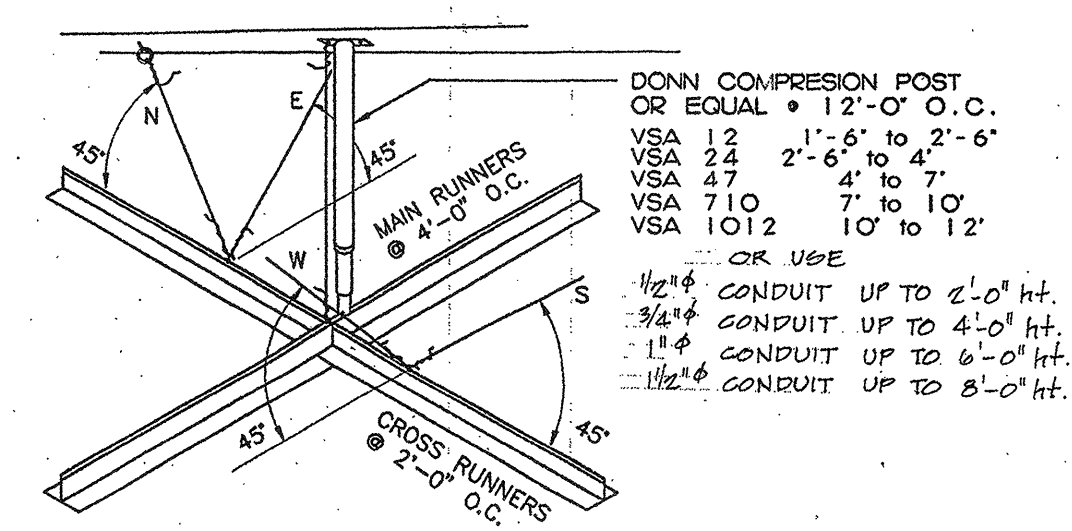
SYMBOLS

- 2' x 4' lay-in suspended grid acoustical tile ceiling system @10'-0" unless otherwise noted
- 2' x 2' tegular acoustical tile ceiling system @12'-0" unless otherwise noted
- 5/8" gyp. board taped, textured and painted o/metal studs @16" o.c. @+9'-0" unless otherwise noted.
(see 3425157-33 @ 16" o.c. stl. studs w/ 2-#8 tek screws @ ea. end)
- 1' x 4' surface mounted fluorescent light fixture - see light schedule
- recessed incandescent light fixtures
- incandescent light fixtures - see light schedule
- 2' x 4' recessed fluorescent light fixture - see light schedule
- mechanical supply air grille - see Mech. Plan
- mechanical return air grille - see Mech. Plan
- mechanical exhaust fans - see Mech. Plan



"The Reflected Ceiling"
FLOOR PLAN
18,000 sq. ft. 1/8" = 1'-0"

Note: All Suspended Acoustical Tile Ceilings are at +10'-0" A.F.F. (U.A.N.) See Support Detail



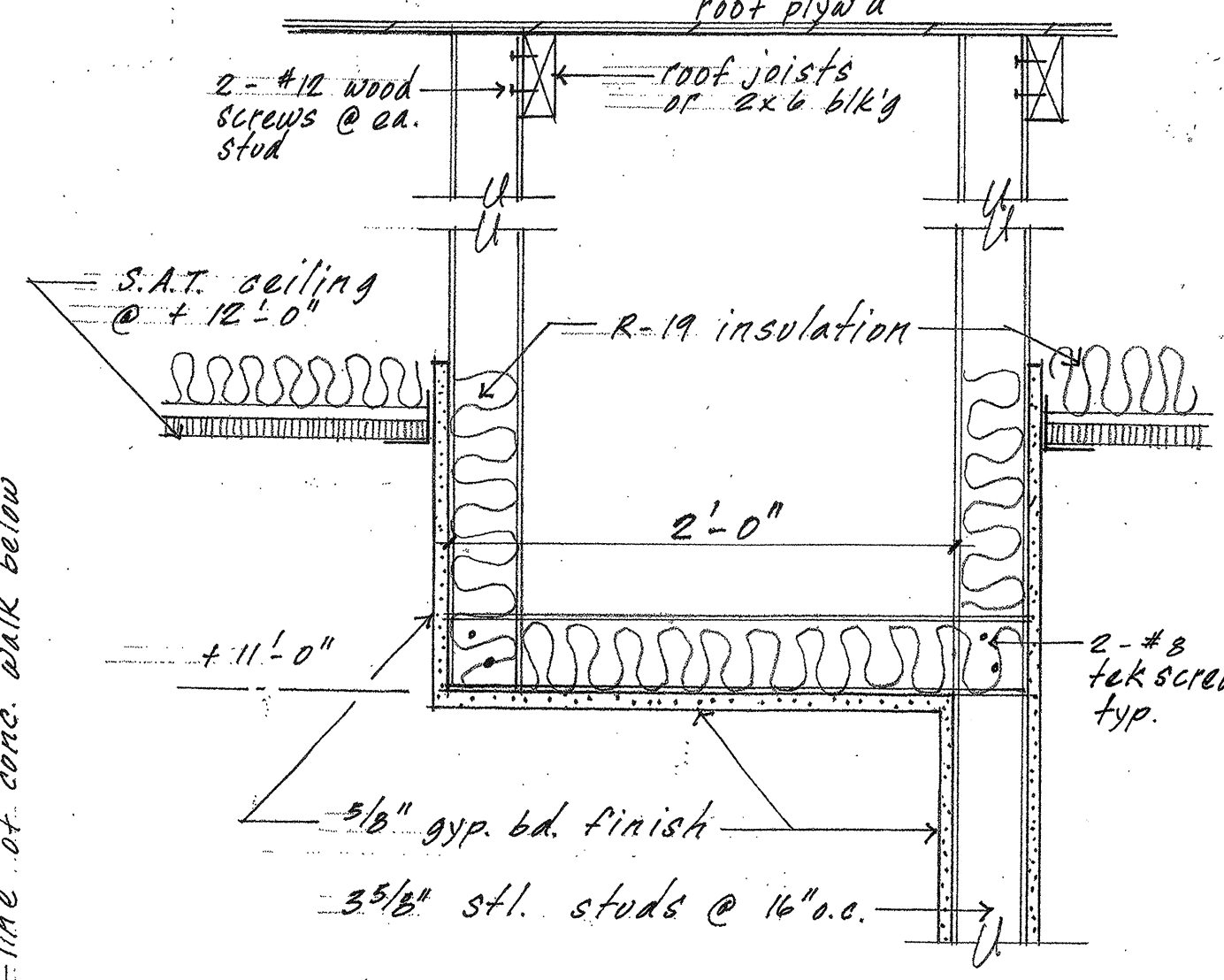
DOWN COMPRESSION POST OR EQUAL • 12'-0" O.C.
VSA 12 1'-2" to 2'-6"
VSA 22 2'-6" to 4'-0"
VSA 47 4'-0" to 7'-0"
VSA 710 7'-0" to 10'-0"
VSA 1012 10'-0" to 12'-0"
OR USE
1/2" x 4" CONDUIT UP TO 2'-0" HT.
3/4" x 4" CONDUIT UP TO 4'-0" HT.
1" x 4" CONDUIT UP TO 6'-0" HT.
1 1/2" x 4" CONDUIT UP TO 8'-0" HT.

LIGHTING FIXTURES & CEILING MOUNTED AIR REGISTERS OR RETURNS ARE TO BE SUPPORTED INDEPENDENT OF T-BAR GRID. SUPPORT WITH 12 GATO BE WITHIN 16" OF WIRE HANGERS WITHIN 3' OF PLUMB UNLESS COUNTER THE FIXTURE CORNER AND TWO WIRES ON EACH LIGHT PROVIDED AS SHOWN PER STANDARD 52-2 OF THE UBC, VOL. 3.

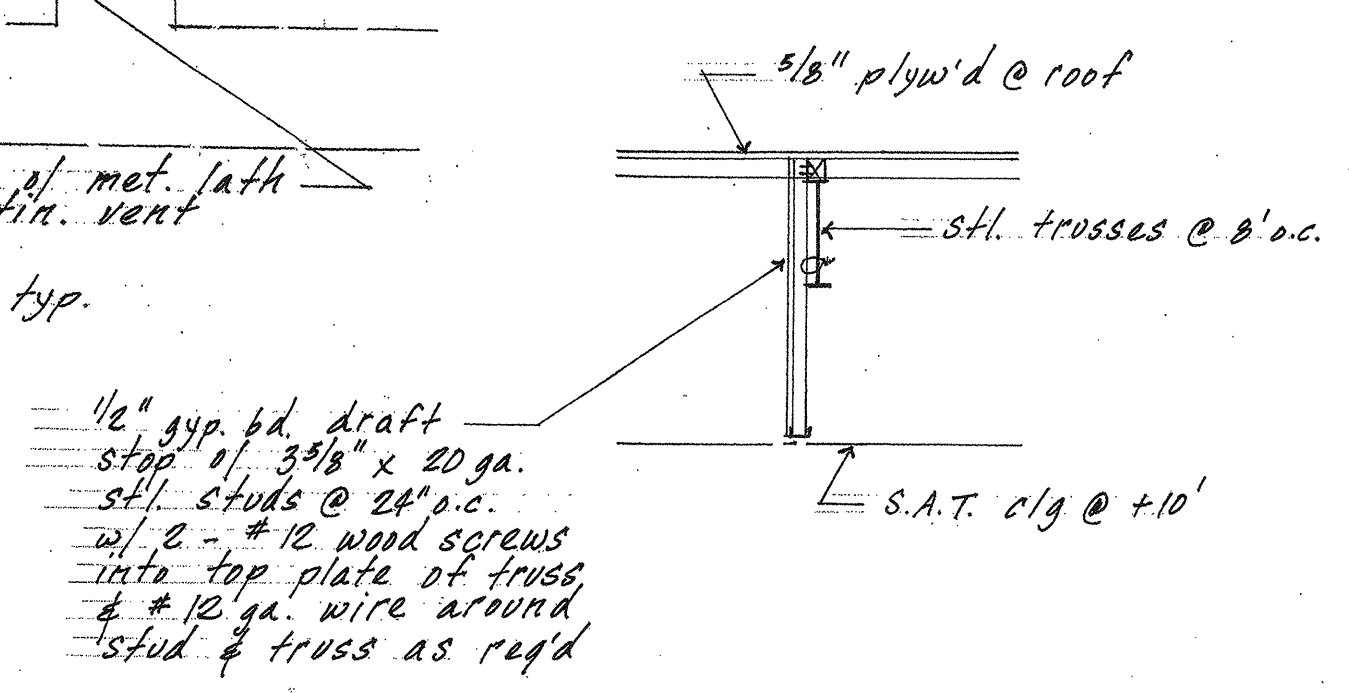
VERTICAL SUPPORT IS TO BE PROVIDED BY 12 GA. WIRE 48" O.C. WITHIN 8" OF EACH WALL. HANGER WIRES 90° FROM EACH OTHER • NOT MORE THAN 45° FROM THE CEILING PLANE SPACE 12'-0" O.C. 2 MIN. OF 48" FROM WALLS. PROVIDE SEISMIC STRUT • 12'-0" O.C.

SEISMIC BRACING TO BE SECURED WITHIN 2" OF THE CROSS RUNNER INTERSECTION & SPLAYED 45° FROM THE CEILING PLANE SPACE 12'-0" O.C. 2 MIN. OF 48" FROM WALLS. PROVIDE SEISMIC STRUT • 12'-0" O.C.

SUPPORT DETAIL PER UBC 2804 & 710.2 (1997)
NO SCALE



Soffit Detail 1
1/2" = 1'-0"



fin. fin.
Draft Stop 1/2" = 1'-0"
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ACCESSIBILITY STANDARDS

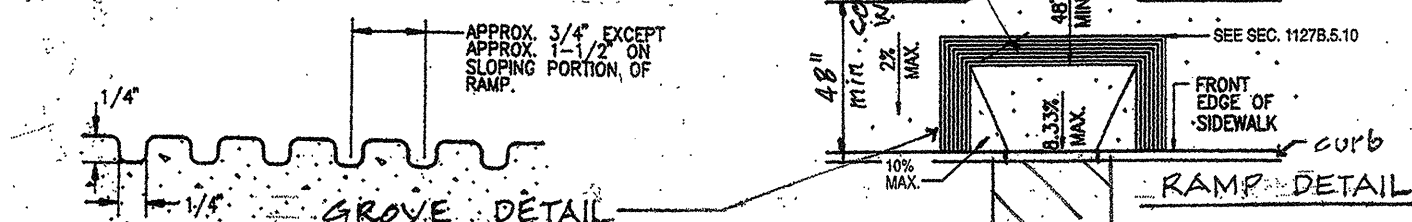
INTERNATIONAL SYMBOL OF ACCESSIBILITY:

- 1. Symbol shall be white figure on blue background.
- 2. A surface identification at all handicapped parking stalls shall be 3' x 3' and shall be located so that it is visible to a traffic enforcement officer when a vehicle is properly parked.

PARKING NOTES

- 1. Handicapped space shall be as near as possible to the primary entrance of building.
- 2. Free standing signs located at interior end of a parking space shall be mounted a minimum 80" high if in path of travel.
- 3. Bumpers are required when no curb barrier is provided which will prevent encroachment of cars over walkways.
- 4. Wheelchair users must not be forced to go behind parked cars other than their own.
- 5. Each parking space is required to be at least 18' long.
- 6. Surface slopes of parking areas for the disabled should be minimal, but are required not to exceed 1/4 in/ft in any direction.

Total Parking in Lot	Required Minimum Number of Accessible Spaces
1 to 25	1 van accessible space
26 to 50	2 including 1 van accessible
51 to 75	3 including 1 van accessible
76 to 100	4 including 1 van accessible
101 to 150	5 including 1 van accessible
151 to 200	6 including 1 van accessible

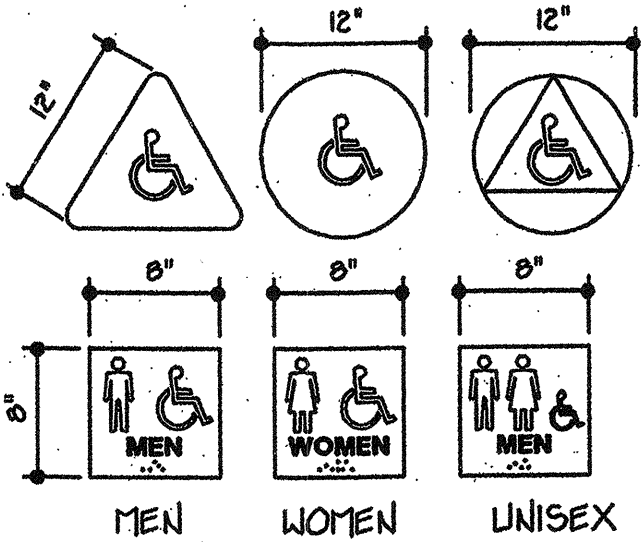


Except as provided below, access aisles adjacent to accessible spaces shall be 60 in. (1525mm) wide minimum.

One in every eight accessible spaces, but not less than one, shall be served by an access aisle 96 in. (2440mm) wide minimum and shall be designated "van accessible".

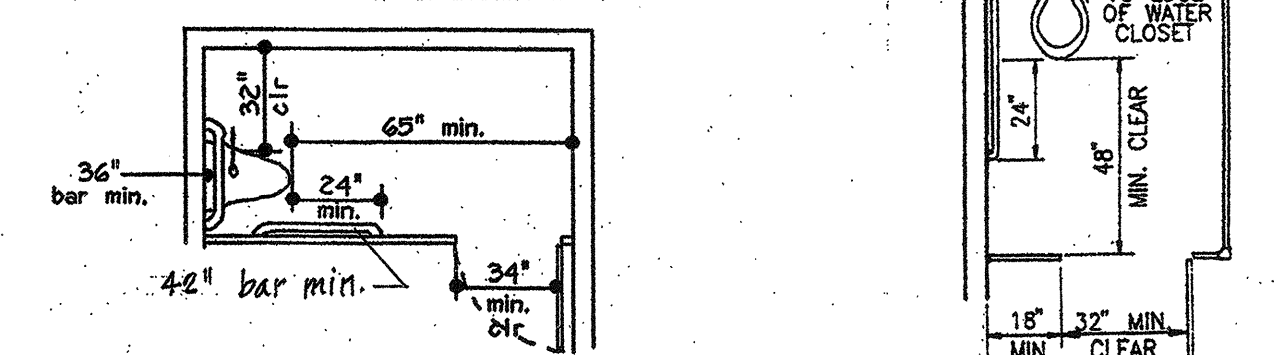
RESTROOM SIGNAGE

- 1. Characters and symbols are required to contrast with their background.
- 2. Symbols are to be centered on door 60" above floor and are to be distinctly different from the door in color and contrast.



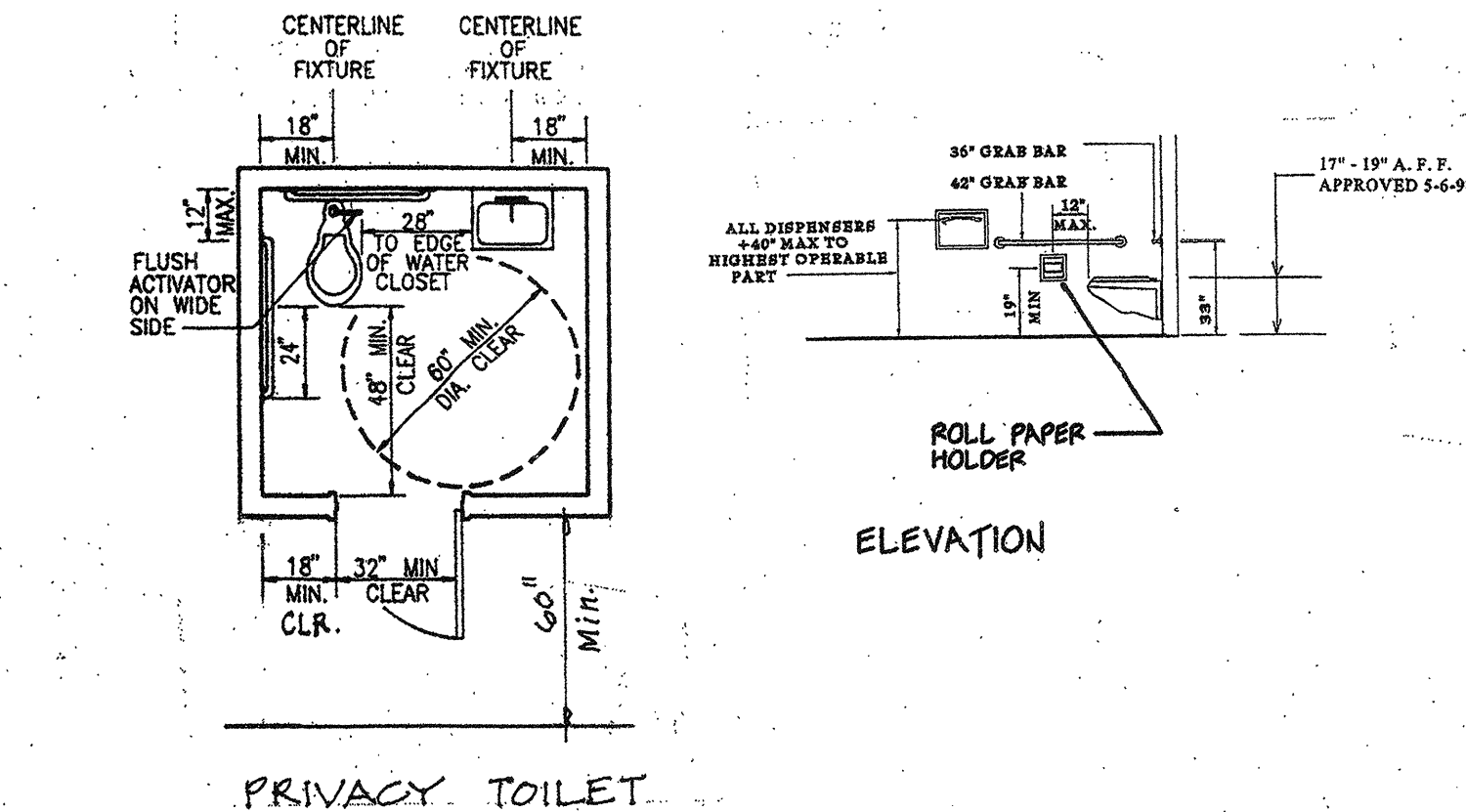
Provide raised letters and Braille lettering @ 60" high to latch side on the out side of door. Raised lettering to be 5/8" to 2" high raised 1/32" sans serif, upper case, non-gloss contrasting. Braille to be grade 11, dots = 1/10" on center in each cell with 2/10" space between cells, raised 1/40".

TOILET DETAIL



SIDE ENTRANCE

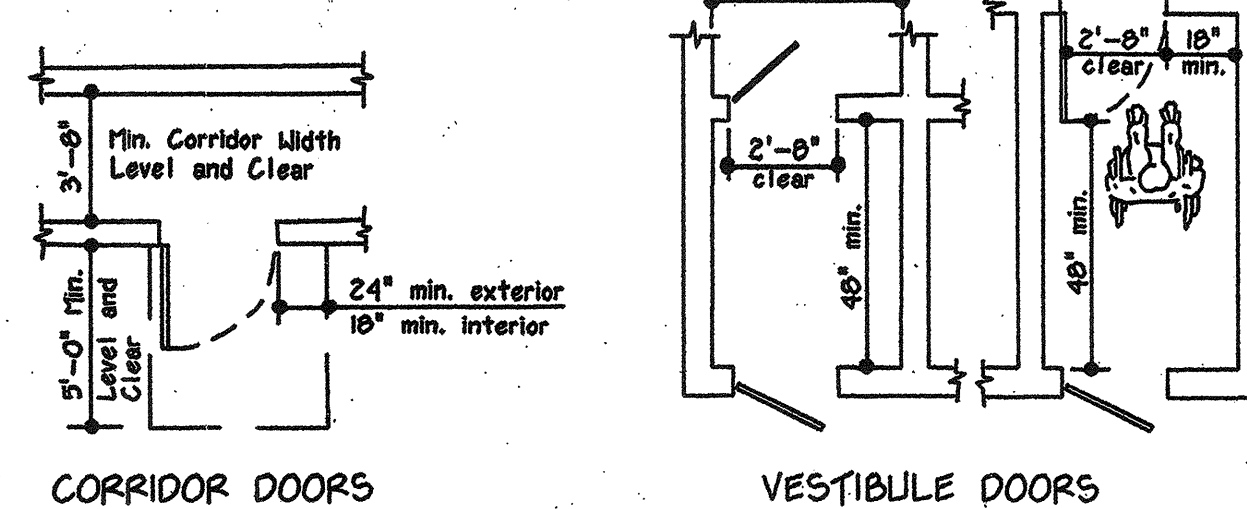
- 1. Equip the door into the stall with auto closing device and provide a clear opening width of 32" at the end of a stall or 34" at side of stall.
- 2. Provide 44" wide clear path to a stall and 48" space in front of a compartment door, measured at right angles to door.
- 3. In multiple accommodations, provide a space 60" in diameter and 27" high or 56" x 36" with 12" maximum intrusion by a door.
- 4. All accessible toilet compartment doors shall be equipped with a privacy lock with a loop or U-shaped handle immediately below the latch.



SIGNAGE

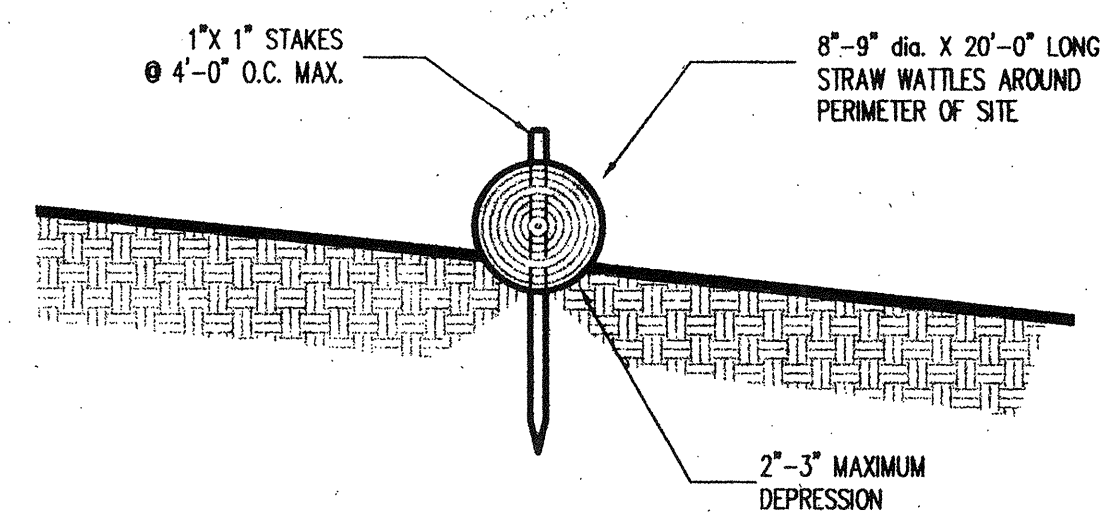
- 1. Each parking space shall have a permanent (70 sq. in. min.) HANDICAPPED PARKING sign.
- 2. Free standing signs located at interior end of a parking space shall be mounted a minimum of 80" above finish grade.
- 3. Wall mounted signs may also be located at interior end of parking space and shall be mounted a minimum of 36" above finish grade.
- 4. Off-street parking facilities shall have a sign at each street entrance or at each parking stall not less than 17' x 22' in size, in 1" high letters, as follows:
"Unauthorized vehicles parked in designated handicapped spaces not displaying distinguishing placards or license plates issued for physically disabled persons may be towed away at the owner's expense. Towed vehicles may be reclaimed at or by telephoning"

BUILDING ACCESS





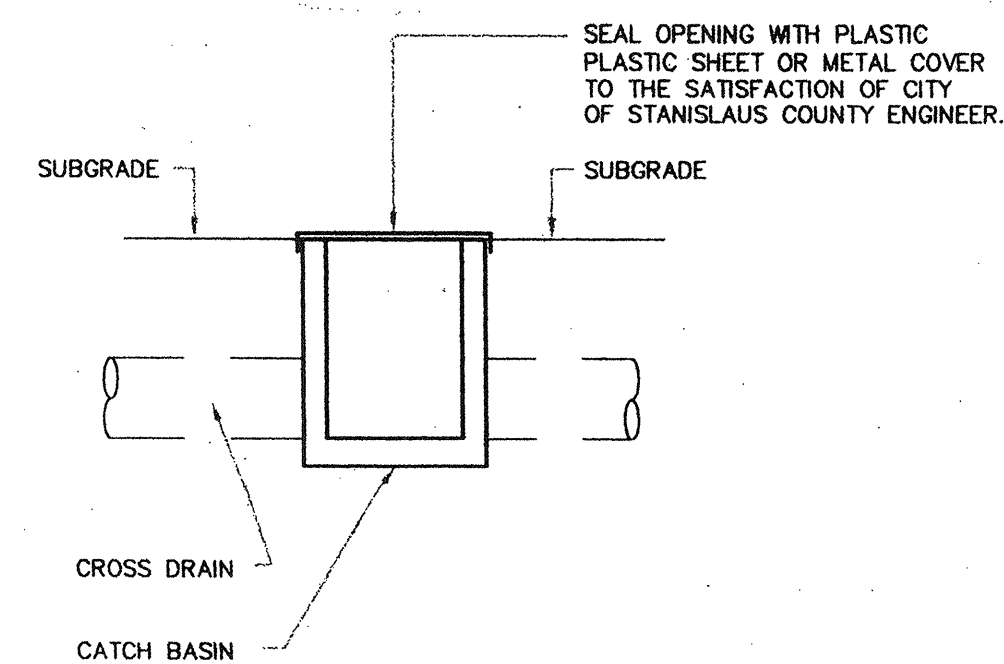
③ TEMPORARY SEAL OPENING
SEDIMENT PROTECTION
NOT TO SCALE



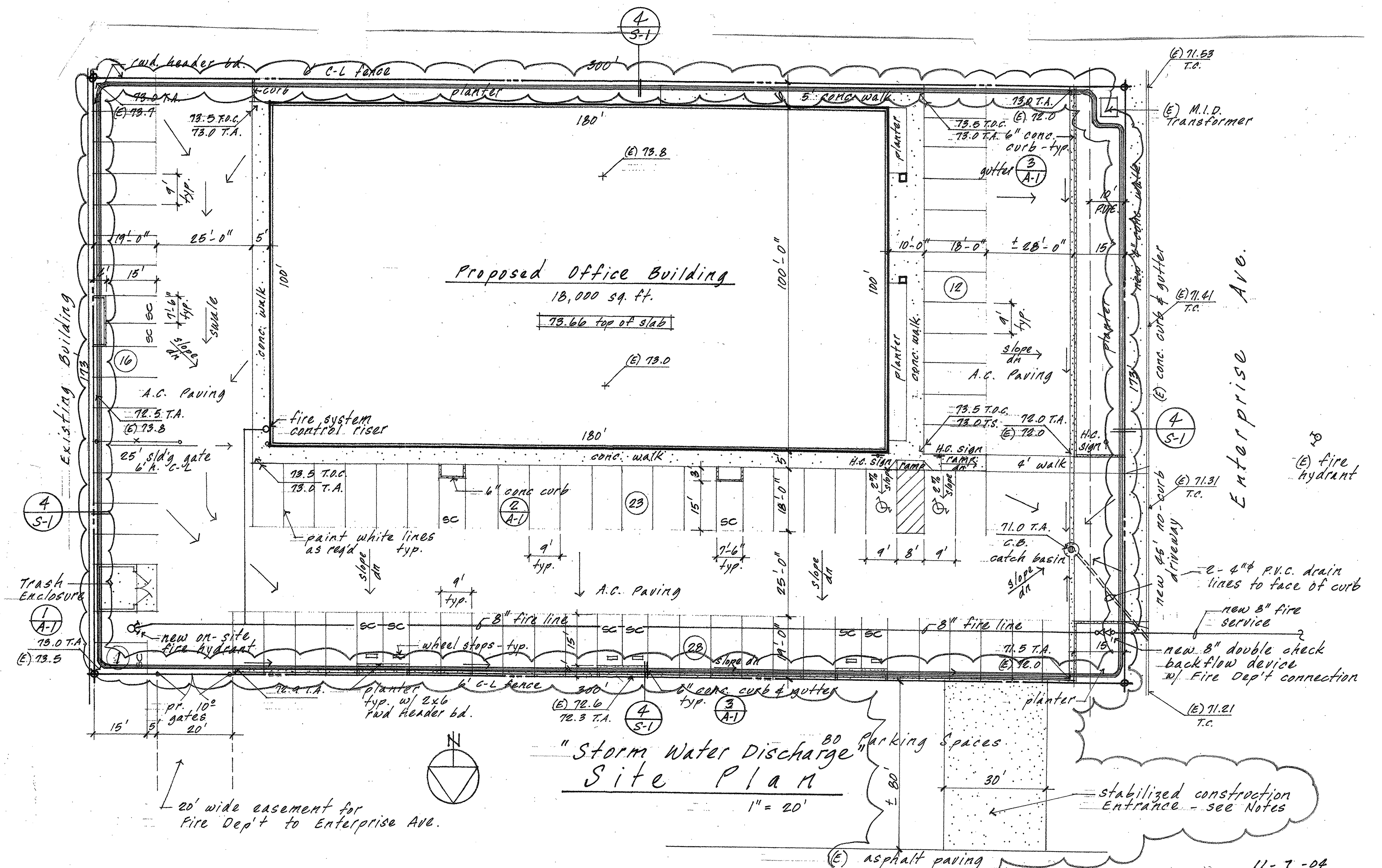
④ EROSION CONTROL
STRAW WATTLE PLACEMENT DETAIL
NOT TO SCALE

TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
DESIGN AND CONSTRUCTION SPECIFICATIONS:

1. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT THE ENTRANCE TO THE PROJECT SITE
2. THE THICKNESS FOR THE PAD SHALL NOT BE LESS THAN 18 INCHES
3. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
4. THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 100 FEET.
5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT ANY MEASURES USED TO TRAP SEDIMENT ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY.
6. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE TO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, WASH SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP, OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SANDBAGS, GRAVEL, BOARDS, OR OTHER APPROVED METHODS.
7. CONTRACTOR TO REMOVE AND DISPOSE OF STABILIZED CONSTRUCTION ENTRANCE UPON COMPLETION OF CONSTRUCTION.



ON-SITE CATCH BASIN
 ② TEMPORARY SEAL OPENING
SEDIMENT PROTECTION
 NOT TO SCALE



State Water Resources Control Bd.

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NOTES:

1. INSTALL WALL SHTG PRIOR TO CONSTRUCTION OF POP-OUTS & ADJACENT WALLS.
2. BLOCK ALL PANEL EDGES.
3. ALL NAILS INTO PRESSURE TREATED SILL P'S SHALL BE HOT DIPPED GALVANIZED.

LOCATE PLY JOINT O/ KING STUD - TYP

EN @ (K) STUDS

HEADER PER PLAN

SIMPSON CS16 w/ 8d EVERY OTHER HOLE - TOP & BOTT PROVIDE 2 STRAPS TOP & BOTT AS NOTED ON PLANS

2x4 MIN BLK 32" MIN BEYOND OPNG @ CS16 STRAPPING

32" MIN

DBL SILL

OPENING PER PLAN

PT @ FULL LENGTH OF SHEAR WALL NO SPLICE

@ WINDOW

LOCATE PLY JOINT O/ KING STUD - TYP

EN @ (K) STUDS

HEADER PER PLAN

SIMPSON CS16 w/ 8d EVERY OTHER HOLE

2x4 MIN BLK 32" MIN BEYOND OPNG @ CS16 STRAPPING

32" MIN

OPENING PER PLAN

@ DOOR

Diagram illustrating a double top plate connection. The top plate is labeled "DBL TOP PL". The splice length is indicated as "4'-0\" splice". The connection uses "(16) 16d SINKERS STAGGERED". The wall studs are labeled "WALL STUDS @ 16\" OC".

NOTE: WHERE 4'-0\" splice IS NOT AVAILABLE PROVIDE C516 x 24\" LONG w/ 8d EVERY OTHER HOLE EA SIDE

The left drawing is an elevation of the HVAC unit, showing a rectangular frame with internal bracing. Labels include: "4x6 BLKG w/ LUS46 @ EDGES OF HVAC UNIT" pointing to the outer frame, and "4x6 w/ W46 @ HVAC UNIT" pointing to the inner bracing. The right drawing is an elevation of the window assembly, showing a larger frame with multiple panes and structural details. Labels include: "(3) 16d EA SIDE PROV LTP4 EA SIDE @ 4x # 6x(K) IN LIEU OF (3) 16d" pointing to the top edge; "PROV A35 T1B EA SIDE @ OPNGS WIDER THAN 4'-0\" pointing to the top edge of the opening; "2x @ 16\" OC" pointing to the top header; "HEADER PER PLAN" pointing to the top header; "LAMINATE S w/ 16d SINK @ 12\" OC-UC" pointing to the side header; "2x BLKG (4) LOC" pointing to the side bracing; "(1) FULL 4\" (K) STUD TYP-UON" pointing to the side stud; "PER ARCH HEAD" and "PER ARCH SILL" pointing to the arch headers and sills; and "FIN FIR" pointing to the bottom finish floor line.

NOTE:

1. VERIFY LOC w/ MECH. LOCATE UNITS SUCH THAT LOADING TO EA OWJ IS 1500# MAX.

FIN FLR

BAR BEND DIAMETER "D"
D=6d, EXCEPT FOR STIRRUPS
AND TIES, USE D=4d @ #3, #4, OR #5

10d UNLESS NOTED

135° HOOK

COVER PER
GENERAL NOTES

12 2 12

10d OR 2 1/2"

135° HOOK

The diagram illustrates two types of pipe bends. On the left, a 90-degree bend is shown with a dimension line indicating a radius of 1'-0" TYP. On the right, a corner intersection is shown where two pipes meet at a 90-degree angle. Labels 'CORNER' and 'INTERSECTION' are placed below the respective diagrams.

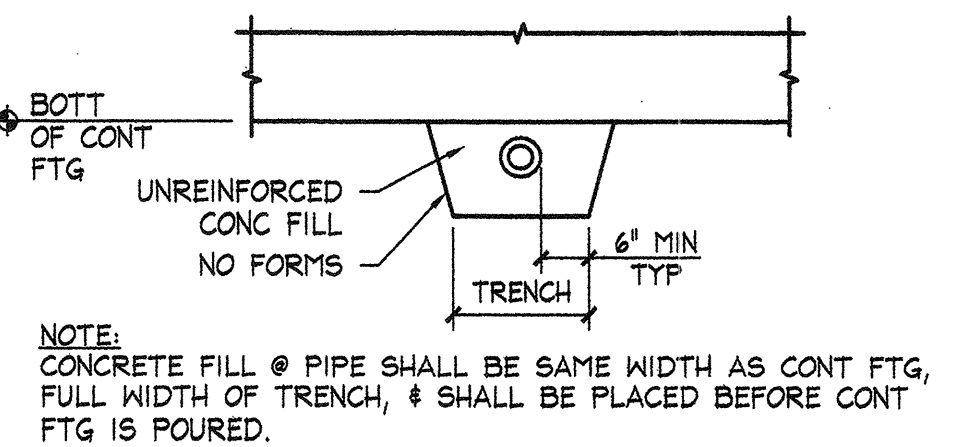
- A. ALL FRAMING MEMBERS SHALL BE IDENTIFIED BY GRADE STAMP OF WEST COAST LUMBER INSPECTION BUREAU.
- B. FRAMING MEMBERS SHALL BE DF NO. 2 WITH 1% MAXIMUM MOISTURE CONTENT, EXCEPT AS FOLLOWS:
 - 1. 6x MEMBERS - D.F. NO. 1 WITH 1% MAXIMUM MOISTURE CONTENT.
- C. PRESERVATIVE TREATED WOOD.
- D. PRESERVATIVE TREATED WOOD SHALL BE USED ONLY WHERE SHOWN ON DRAWINGS AND SHALL NOT BE USED IN PLACE OF OTHER FRAMING UNLESS WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER IS OBTAINED.
- E. PRESERVATIVE TREATMENT SHALL BE EITHER ZINC BORATE OR DOT SODIUM BORATE.
- F. NAILS USED TO FASTEN FRAMING AND CONNECTORS TO PRESERVATIVE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A663, CLASS 420. NO SUBSTITUTIONS ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
- D. JOIST HANGERS AND FRAMING CONNECTORS - STANDARD ITEMS AS MANUFACTURED BY SIMPSON STRONG-TIE CO. (OR EQUAL), INSTALLED FOR FULL RATED LOAD VALUES.
- E. MACHINE BOLTS - ASTM A307. PROVIDE WASHERS UNDER BOLT HEADS WHICH BEAR AGAINST WOOD.
- F. ALL FRAMING MEMBERS ARE TO BE CUT FOR FULL BEARING AND PROPER LENGTH.
- G. NAILING PER CBC TABLE 23-11.1. ALL 2x4'S TO BE SHOWN. EXCEPT 1x4 CAN BE BOX NAILS. NAILS @ 12" O.C. SILL PLATES TO BE HOT DIPPED GALVANIZED. NAILING FOR JOIST HANGERS AND FRAMING CONNECTORS PER MANUFACTURER'S REQUIREMENTS FOR FULL RATED VALUES OR AS NOTED.
- H. LAG BOLTS:
 - 1. LAG BOLTS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1.
 - 2. LEAD HOLES FOR LAG BOLT INSTALLATION:
 - a. CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK DIAMETER, AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF THE UNTHREADED SHANK.
 - b. LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60% TO 75% OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION.
 - c. THE THREADED PORTION OF THE LAG BOLT SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH, NOT BY DRIVING WITH HAMMER.
 - d. SOAP OF OTHER LUBRICANT SHALL BE USED ON THE LAG BOLTS OF IN THE LEAD HOLES TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE LAG SCREW.
- I. PUL BEAMS SHALL BE AS MANUFACTURED BY TRUSS JOIST/MACHILLAN IN ACCORDANCE WITH ICBO REPORT NO. ER-4719.
- J. PLYWOOD:
 - 1. ROOFS NOTED "PANELIZED" - SHALL BE 5/8" APA RATED SHEATHING, 40/20 PANEL INDEX, EXPOSURE 1. NAIL EDGES WITH 10d COMMONS @ 6" O.C. AND FIELD @ 12" O.C. UNLESS OTHERWISE NOTED. INSTALL SHEETS WITH FACE GRAIN PARALLEL TO SUPPORTS.
 - 2. ROOFS NOT NOTED "PANELIZED" - SHALL BE 5/8" APA RATED SHEATHING, 32/16 PANEL INDEX, EXPOSURE 1. NAIL EDGES WITH 10d COMMONS @ 6" O.C. AND FIELD @ 12" O.C. INSTALL SHEETS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.
 - 3. SHEAR WALL SHEATHING SHALL BE 5/8" APA RATED SHEATHING OR OSB, 16/0 PANEL INDEX, EXPOSURE 1, NAILED IN ACCORDANCE WITH SHEAR WALL SCHEDULE.
 - 4. FASCIA AND SOFFIT SHEATHING - SHALL BE 1/2" APA RATED SHEATHING, 24/0 PANEL INDEX, EXPOSURE 1. NAIL EDGES WITH 8d COMMONS @ 6" O.C. AND FIELD @ 12" O.C.
- K. METAL PLATE WOOD TRUSSES:
 - 1. A COMPLETE SHOP DRAWING SUBMITTAL SHALL BE MADE TO ARCHITECT, ENGINEER OF RECORD, & BUILDING DEPARTMENT FOR REVIEW PRIOR TO FABRICATION. CALCULATIONS SHALL BE SEALED BY A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.
 - 2. ARCHITECT OR ENGINEER OF RECORD SHALL PROVIDE LETTER STATING TRUSS SUBMITTAL HAS BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE BLDG DESIGN.
 - 3. TRUSS CALCULATIONS & LAYOUT SHALL BECOME PART OF THE CONSTRUCTION DOCUMENTS & SHALL BE KEPT AT THE JOB SITE.
 - 4. MATERIALS, DESIGN, FABRICATION & ERECTION SHALL CONFORM TO THE DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES (TP1) LATEST EDITION & THE 2001 EDITION OF THE CBC & ANY OTHER APPLICABLE LOCAL CODES.
 - 5. TRUSSES SHALL BE FABRICATED IN A SHOP LICENSED PER CBC SECTION 2321.3.
 - 6. EACH TRUSS SHALL BE LEGIBLY MARKED WITH THE FOLLOWING INFORMATION WITHIN 2 FT. OF THE CENTER OF THE SPAN ON THE FACE OF THE BOTTOM CHORD:
 - a. IDENTITY OF THE COMPANY MANUFACTURING THE TRUSS
 - b. THE DESIGN LOAD
 - c. THE SPACING OF THE TRUSSES
 - 7. WOOD USED TO FABRICATE TRUSSES SHALL HAVE A 1% MAX MOISTURE CONTENT
 - 8. ALL ROOF TRUSSES SHALL BE SPACED @ 24" O.C. AND SHALL INCLUDE EXTENSIONS AS SHOWN.
- 7. INSPECTIONS
 - A. STRUCTURAL OBSERVATIONS IN ACCORDANCE WITH CBC SECTION 1702 SHALL BE PROVIDED BY STRUCTURAL ENGINEER OF RECORD. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER:
 - 1. 48 HOURS IN ADVANCE OF PLACING CONCRETE FOR FOUNDATIONS.
 - 2. AT COMPLETION OF STEEL FRAMING.
 - 3. AT THE COMPLETION OF WOOD FRAMING PRIOR TO INSTALLING ROOFING OR WALL FINISHES.
 - B. EARTHWORK - PRIOR TO THE COUNTY'S FOUNDATION INSPECTION, PROVIDE THE BUILDING DEPARTMENT WITH COPIES OF COMPACTION/SOIL ANALYSIS REPORTS.
 - C. CONCRETE - CONTINUOUS AND SPREAD FOOTINGS AND SLAB ON GRADE - SPECIAL INSPECTION NOT REQUIRED. EXCEPTION 2 OF CBC 1705.5.1 APPLIES.
 - D. WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH CBC 1701.5.1.1. WELDING IN AN APPROVED FABRICATOR'S SHOP IN ACCORDANCE WITH CBC 1701.7.1 MAY NOT REQUIRE SPECIAL INSPECTION. PERIODIC INSPECTIONS SHALL BE IN ACCORDANCE WITH CBC 1701.6.2.

7. INSPECTIONS

- A. STRUCTURAL OBSERVATIONS IN ACCORDANCE WITH CBC SECTION 1702 SHALL BE PROVIDED BY STRUCTURAL ENGINEER OF RECORD. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER.
 1. 48 HOURS IN ADVANCE OF PLACING CONCRETE FOR FOUNDATIONS.
 2. AT COMPLETION OF STEEL FRAMING.
 3. AT THE COMPLETION OF WOOD FRAMING PRIOR TO INSTALLING ROOFING OR WALL FINISHES.
- B. EARTHWORK - PRIOR TO THE COUNTY'S FOUNDATION INSPECTION, PROVIDE THE BUILDING DEPARTMENT WITH COPIES OF COMPACTION/SOIL ANALYSIS REPORTS.
- C. CONCRETE - CONTINUOUS AND SPREAD FOOTINGS AND SLAB ON GRADE - SPECIAL INSPECTION NOT REQUIRED, EXCEPTION 2 OF CBC 1705.5.1 APPLIES.
- D. WELDING SHALL HAVE SPECIAL INSPECTION IN ACCORDANCE WITH CBC 1701.5.5.1. WELDING IN AN APPROVED FABRICATOR'S SHOP IN ACCORDANCE WITH CBC 1701.7 MAY NOT REQUIRE SPECIAL INSPECTION. PERIODIC INSPECTIONS SHALL BE IN ACCORDANCE WITH CBC 1701.6.2.

8. DEFERRED SUBMITTALS - THE FOLLOWING ARE DEFERRED SUBMITTALS. OBTAIN ENGINEER OF RECORD'S REVIEW AND APPROVAL PRIOR TO SUBMITTAL FOR BUILDING OFFICIAL APPROVAL IN ACCORDANCE WITH CBC SECTION 106.3.4.2 PRIOR TO DELIVERY TO JOB SITE.

- A. OPEN WEB STEEL JOISTS.
- B. METAL PLATE WOOD JOISTS.



PROVIDE 40# LAPS TYP

TYP REIN

18" MIN

8" MIN

2'-0" MIN

4'-0"

4'-0"

WHERE BOTT REIN IS INTERRUPTED, ADD SAME SIZE BAR X 10'-0" MIN REIN TO RUN THRU WHERE POSSIBLE

THRU CONT FTG

WHERE PIPE SLEEVE IS BETWEEN 6" ABV & 4" BELOW BOTT OF CONT FTG

2. EARTHWORK

- A. THESE NOTES APPLY TO STRIPPING OF AND REMOVAL OF VEGETATION AND DEBRIS; EXCAVATING; SCARIFYING; RECOMPACTION OF SOILS; GRADING OR FILLING TO SUB-BASE ELEVATION; FOUNDATION EXCAVATION AND BACK FILLING; AND PROVIDING AND COMPACTING DRAINAGE BASE UNDER SLABS ON GRADE WITHIN THE BUILDING LIMITS.
- B. FILL SHALL BE APPROVED ON SITE NATIVE SANDY SOILS FREE OF ORGANIC MATERIAL OR SELECT GRANULAR IMPOVE FILLS.
- C. PRIOR TO COMPACTION OF EARTHWORK, STRIP THE AREA WITHIN THE BUILDING LIMITS TO REMOVE SURFACE OBSTRUCTIONS, VEGETATION, AND ORGANIC CONTAMINATED SOILS. VOID THE REMOVAL OF TREES AND THEIR ROOT SYSTEMS, IRRIGATION LINES, AND ANY OTHER BURIED OBJECTS SHALL BE OVER-EXCAVATED AND RECOMPACTED.
- D. AFTER STRIPPING OPERATIONS, SCARIFY EXPOSED SOILS TO A MINIMUM DEPTH OF 12" AND RECOMPACT TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D-1557 TEST PROCEDURE AT A MOISTURE CONTENT NEAR OPTIMUM.
- E. GRADE SHALL BE GRADUALLY TO 90 PERCENT OF THE PLACE REQUIRED FILL IN 8" MAXIMUM OF LOOSE THICKNESS, DRY OR MOISTURE CONDITION AND COMPACT TO 90% RELATIVE DENSITY IN ACCORDANCE WITH 2.6 ABOVE.
- F. AFTER GRADING, EXCAVATE FOR FOUNDATIONS. FILL FOOTING OVER-EXCAVATION WITH CONCRETE OR ENGINEERED FILL. ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-0" BELOW GRADE AND NOT GREATER THAN THE SPECIFIED ELEVATION.
- G. AFTER FOUNDATIONS ARE CONSTRUCTED, BACKFILL TO SUB-GRADE PER 2.6 ABOVE.
- H. SLAB ON GRADE SHALL HAVE A 4" MIN THICK COMPACTED DRAINAGE BASE. DENSITY DRAINAGE BASE WITH TWO RIGHT ANGLE PASSED WITH A VIBRATOR PLATE. DRAINAGE BASE SHALL BE GRADED TO REQUIRED ELEVATION, WITHIN A TOLERANCE OF +1/4" TO -1/2". AFTER DRAINAGE BASE IS COMPACTED, PLACE VAPOR BARRIER AND 2 INCHES OF SAND CUSHION.
- I. ALL EXCAVATIONS AND APPROVED EARTHWORK SHALL BE PROTECTED FROM WEATHER AND WATER ACCUMULATION AT ALL TIMES.

- A. 1. SPREAD FOOTINGS AND CONTINUOUS FOOTINGS: 2,500 PSI 28 DAY COMPRESSIVE STRENGTH MADE WITH 1 1/2" ASTM C33 AGGREGATES (145 PCF MINIMUM DENSITY) AND CONTAIN MINIMUM OF 5.0 SACKS OF CEMENT PER CUBIC YARD AND PLACED AT A 5' MAXIMUM SLUMP.
- B. 2. INTERIOR SLABS ON GRADE AND EXTERIOR SLABS ON GRADE, CUREDS, 4 GUTTERS: 2,500 PSI 28 DAY COMPRESSIVE STRENGTH MADE WITH 3/4" ASTM C33 AGGREGATES (145 PCF MINIMUM DENSITY) AND CONTAIN MINIMUM OF 5.0 SACKS OF CEMENT PER CUBIC YARD AND PLACED AT A 5' MAXIMUM SLUMP.
- C. BENT SHALL BE ASTM C150, TYPE I. FLYASH NOT ALLOWED. 0
- D. AGGREGATE SHALL CONFORM TO ASTM C33.
- E. CONTRACTOR SHALL RETAIN A TESTING LABORATORY TO DESIGN AND TEST CONCRETE MIX DESIGNS. SUBMIT SEPARATE MIX DESIGNS IF CONCRETE IS TO BE PUMPED.
- F. ALL CONCRETE SHALL BE READY-MIXED CONCRETE AND SHALL BE BATCHED, MIXED AND DELIVERED TO SITE PER ASTM C94. WATER SHALL BE ADDED TO OBTAIN MINIMUM SLUMP. PLACE CONCRETE WITHIN 90 MINUTES OF THE ADDITION OF MIXING WATER.
- G. REINFORCEMENT SHALL BE ASTM A615, GRADE 60.
- H. REINFORCEMENT SHALL BE FABRICATED WITH BENDS AND HOOKS CONFORMING TO ACI 315 AND AS SHOWN ON DRAWINGS. LAP ALL REINFORCING MINIMUM 40 BAR DIAMETERS (BUT NOT LESS THAN 12") UNLESS OTHERWISE NOTED.
- I. REINFORCEMENT SHALL BE HELD SECURELY IN PLACE AND SUPPORTED ON GALVANIZED CHAIRS CONFORMING TO CRSI. WIRE TIE ALL INTERSECTIONS. CONCRETE DOBBIES MAY BE USED TO SUPPORT REBAR CAST.
- J. MINIMUM CONCRETE COVER OVER REINFORCEMENT SHALL BE: 3" FOR CONCRETE CAST AGAINST EARTH, 2" FOR FORMED SURFACES EXPOSED TO EARTH OR WEATHER, AND 1" FOR FORMED SURFACES NOT EXPOSED TO WEATHER UNLESS OTHERWISE SHOWN.
- K. ALL CONCRETE SHALL BE VIBRATED.
- L. PROVIDE SLAB ON GRADE JOINTS PER DETAILS.
- M. CHAMFER OR TOOL ALL EXPOSED EDGES 3/4".
- N. PROVIDE HOT AND COLD WEATHER PROTECTION PER ACI 305 AND 306 RESPECTIVELY.
- O. ALL CONCRETE SHALL BE WET CURED FOR 7 DAYS MINIMUM BY WET CURING OR WITH CURING COMPOUND. CURING COMPOUNDS TO BE COMPATIBLE WITH FLOOR FINISHES.

AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS' AND THE 'CODE OF STANDARD PRACTICE' OF AISC. FOR THE ERECTION OF THE STRUCTURE FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS' AND THE 'CODE OF STANDARD PRACTICE' OF AISC.

B. PLATES - ASTM A36; TUBES - ASTM A500, GRADE B; PIPES - ASTM A53, GRADE B; MACHINE BOLTS - ASTM A307; ANCHOR BOLTS - ASTM A307.

C. WELDING SHALL CONFORM TO AWS D1.1 AND BE DONE BY QUALIFIED WELDERS.

D. PRIME PAINTING OF STEEL NOT REQUIRED. EXPOSED STEEL EXPOSED TO VIEW SHALL BE PRIME PAINTED.

D. MANUFACTURER AND ERECTOR ARE RESPONSIBLE FOR BRIDGING, TEMPORARY BRACING, AND COORDINATING OF JOIST, JOIST GIRDERS, AND BRIDGING CONNECTIONS.

B. FRAMING MEMBERS TO BE D.F. NO. 2 WITH 19% MAXIMUM MOISTURE CONTENT, EXCEPT AS FOLLOWS:
1. 6X MEMBERS - D.F. NO. 1 WITH 19% MAXIMUM MOISTURE CONTENT.

3. NAILS USED TO FASTEN FRAMING AND CONNECTORS TO PRESERVATIVE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM CLASS 60. NO SUBSTITUTIONS ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.

G. NAILING - PER CBC TABLE 23-II-B-1. ALL NAILS TO BE COMMON, EXCEPT 16d CAN BE BOX NAILS. NAILS @ PT SILL PLATES TO BE HOT DIPPED GALVANIZED. NAILING FOR JOIST HANGERS AND FRAMING CONNECTORS PER MANUFACTURER'S REQUIREMENTS FOR FULL RATED VALUES OR AS NOTED.

A. CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK DIAMETER, AND THE SAME DEPTH OF PENETRATION AS THE LENGTH OF THE UNTHREADED SHANK.

4. SOAP OR OTHER LUBRICANT SHALL BE USED ON THE LAG BOLTS OF IN THE LEAD HOLES TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE LAG SCREW.

2. ROOFS NOT NOTED "PANELIZED" - SHALL BE 5/8" APA RATED SHEATHING, 32/16 PANEL INDEX, EXPOSURE 1. NAIL EDGES WITH 10d COMMONS @ 6" O.C. AND FIELD @ 12" o.c.. INSTALL SHEETS WITH FACE GRAIN PERPENDICULAR TO SUPPORTS.

1. A COMPLETE SHOP DRAWING SUBMITTAL SHALL BE MADE TO ARCHITECT, ENGINEER OF RECORD, & BUILDING DEPARTMENT FOR REVIEW PRIOR TO

4. MATERIALS, DESIGN, FABRICATION, & ERECTION SHALL CONFORM TO DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES (TBL) LATEST EDITION & THE ACCEPTANCE OF THE SCS & ALL OTHER APPLICABLE

a. IDENTITY OF THE COMPANY MANUFACTURING THE TRUSS
 b. THE DESIGN LOAD

7. INSPECTIONS

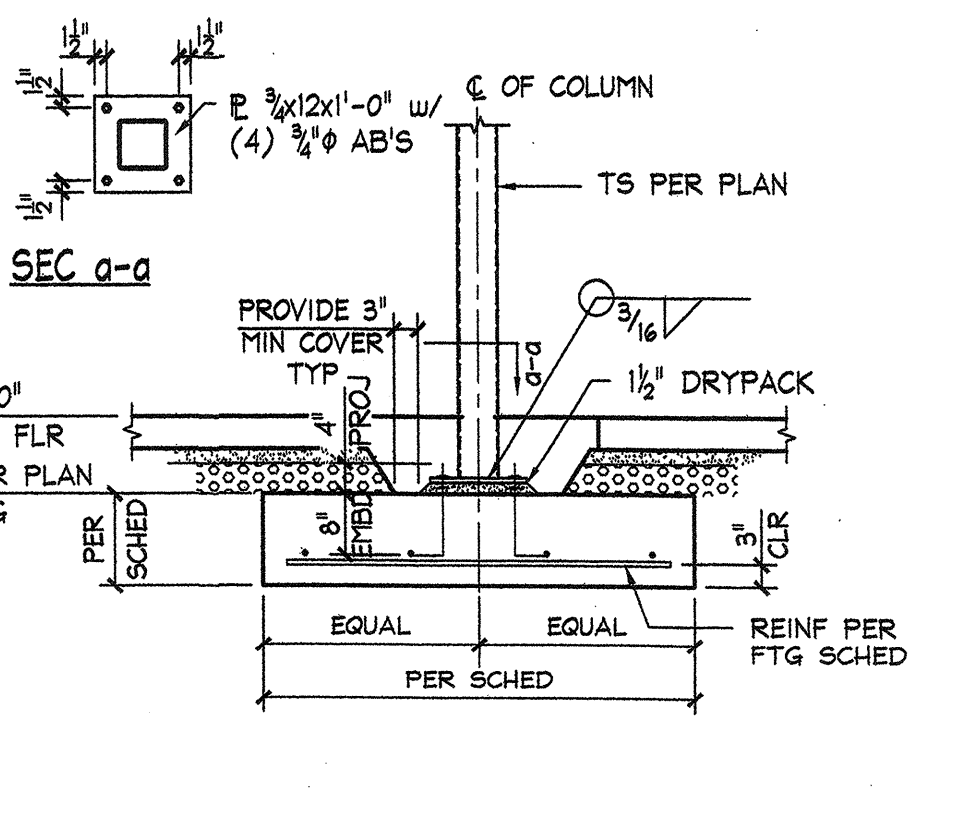
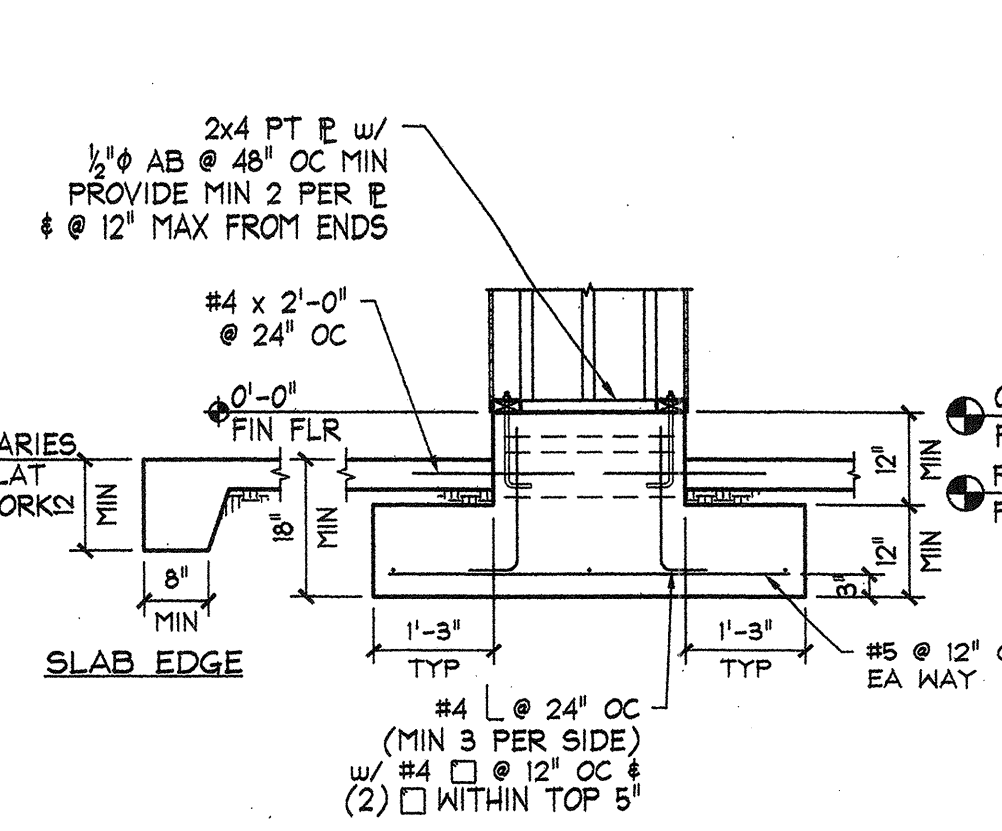
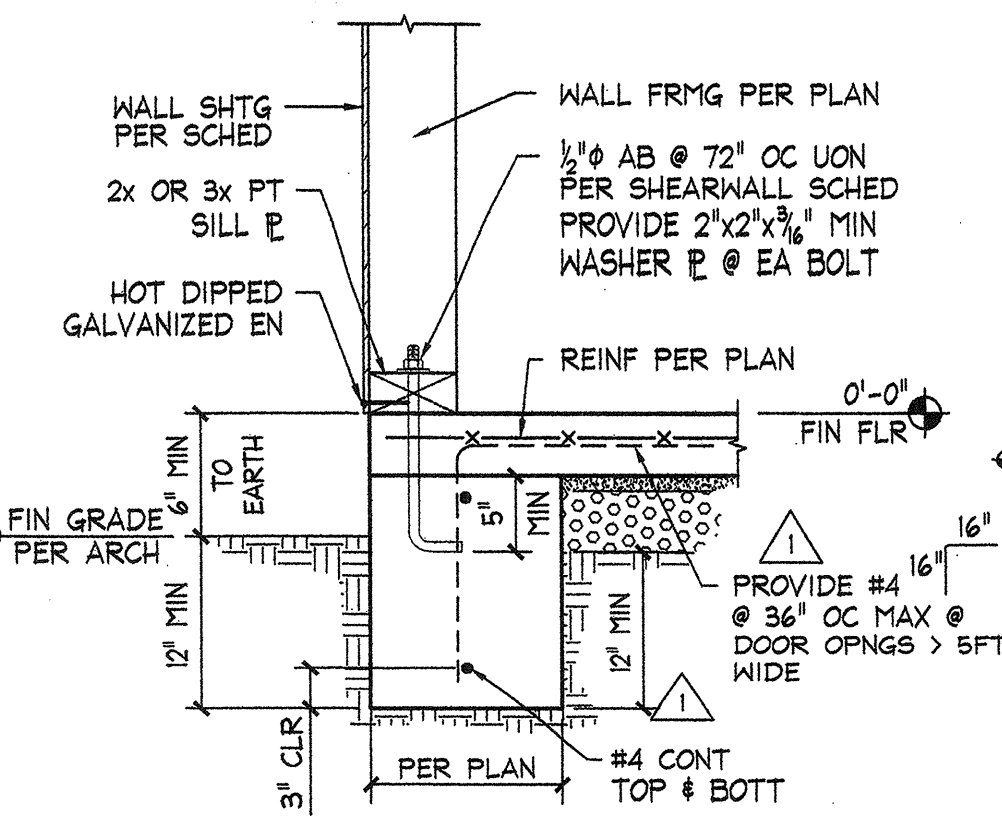
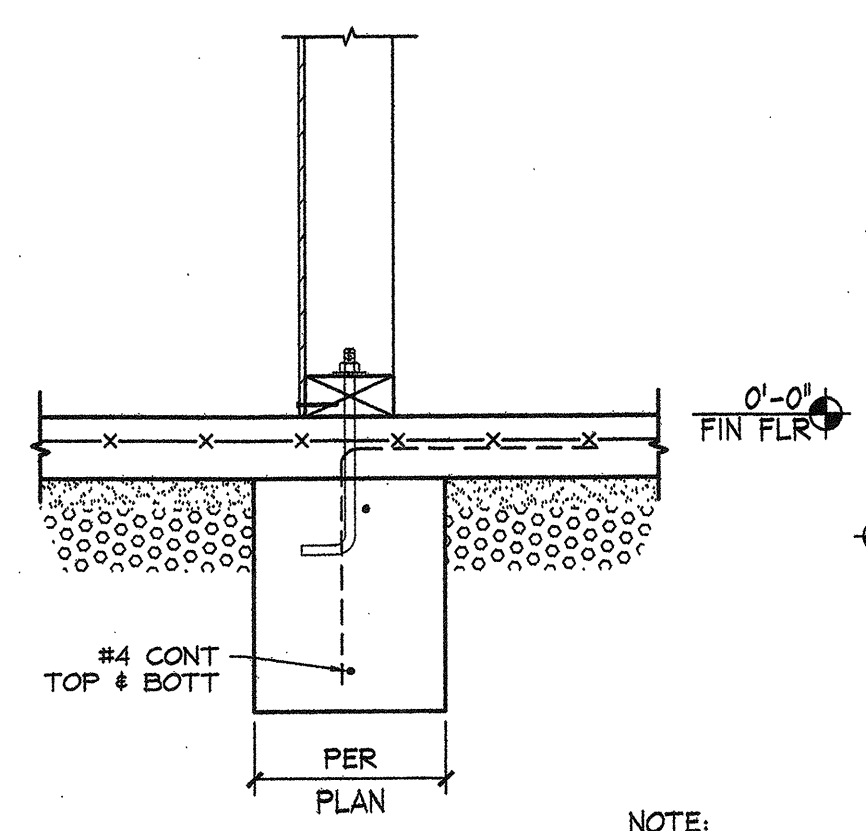
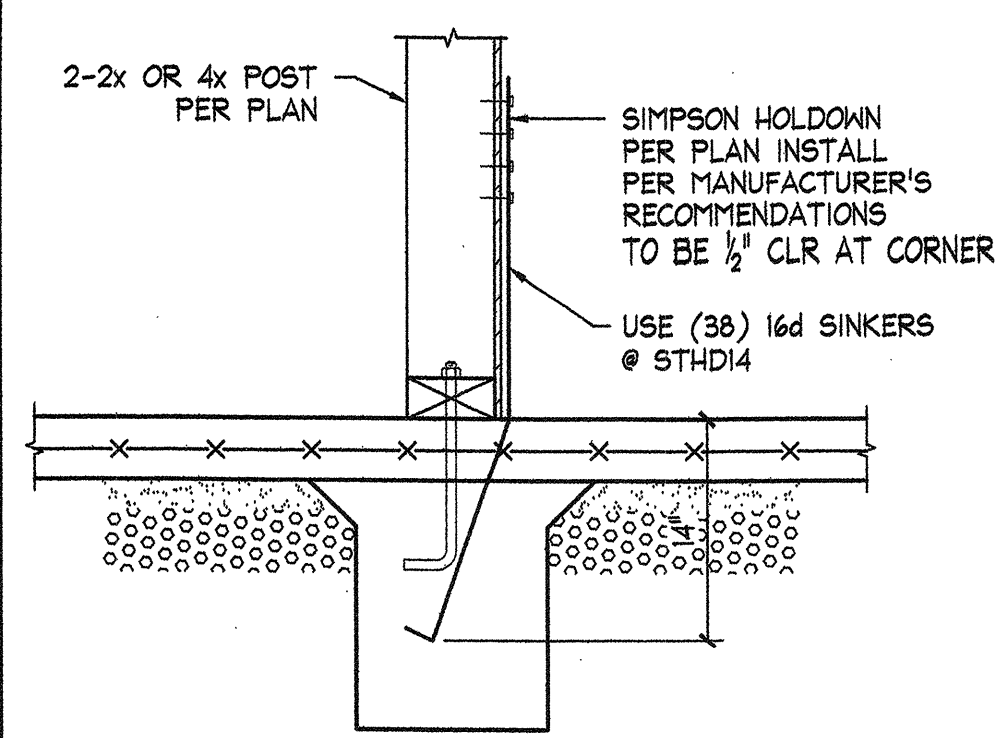
A. STRUCTURAL OBSERVATIONS IN ACCORDANCE WITH CBC SECTION 1702 SHALL BE PROVIDED BY STRUCTURAL ENGINEER OF RECORD. CONTRACTOR SHALL

B. EARTHWORK - PRIOR TO THE COUNTY'S FOUNDATION INSPECTION, PROVIDE THE BUILDING DEPARTMENT WITH COPIES OF COMPACTION/SOIL ANALYSIS REPORTS.

8. DEFERRED SUBMITTALS - THE FOLLOWING ARE DEFERRED SUBMITTALS. OBTAIN ENGINEER OF RECORD'S REVIEW AND APPROVAL PRIOR TO SUBMITTAL FOR BUILDING OFFICIAL APPROVAL IN ACCORDANCE WITH THE FOLLOWING:

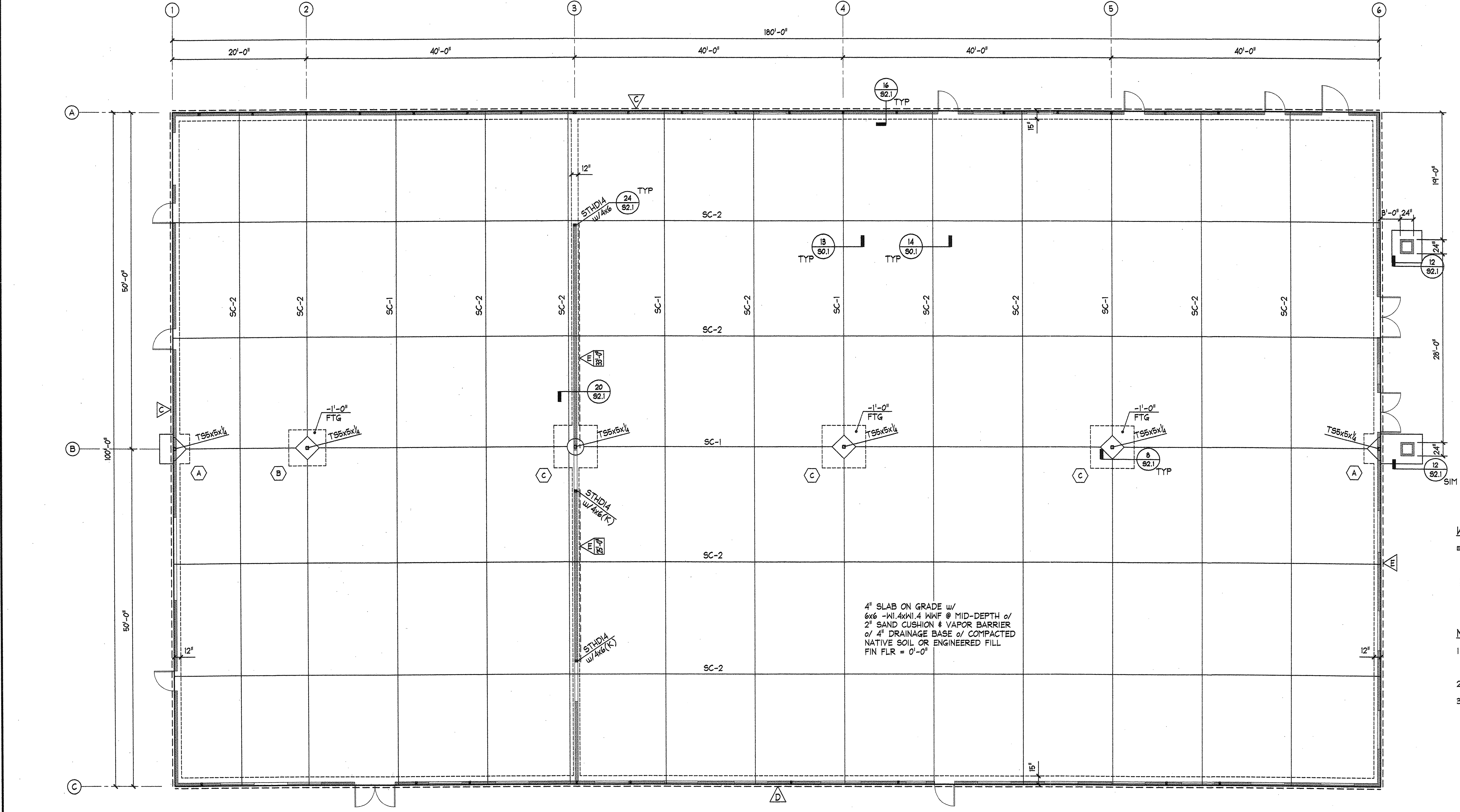
GENERAL NOTES

10. *Journal of the American Medical Association*, 2000; 283: 2686-2692.



MARK	SIZE	REINF
A	4'-6" SQ x 12" DP	(4) #5 x 4'-0" EA WAY
B	5'-6" SQ x 12" DP	(5) #5 x 5'-0" EA WAY
C	6'-6" SQ x 12" DP	(6) #5 x 6'-0" EA WAY

24 TYP HOLDOWN STHD14 1" = 1'-0"
 20 INTERIOR FOOTING 1" = 1'-0"
 16 PERIMETER FOOTING 1" = 1'-0"
 12 PIER FOOTING 1/2" = 1'-0"
 8 FOOTING DETAIL @ TS COL 1/2" = 1'-0"
 4 FOOTING SCHEDULE



- WALL LEGEND:**
- 2x6 DF#2 @ 16" OC.
 - SHEARWALL MARK. SEE 24/SO.1 FOR SHEARWALL SCHEDULE. TERMINATE SHEATHING @ OPENING & PROVIDE EDGE NAILING @ KING STUD.
- NOTES:**
- 1'-0" FTG DENOTES TOP OF FOOTING ELEVATION BELOW FLOOR SLAB. DATUM 0'-0" IS 1st FLOOR SLAB ON GRADE. FTG @ -1'-0" UON.
 - STEEL COLUMNS ARE ONE PIECE, FULL HEIGHT.
 - C SEE FTG SCHEDULE 4/S2.1

21 FOUNDATION PLAN 1/8 = 1'-0"

12/22/2004 8:58:23 AM, jh lawder, inc., structural engineers

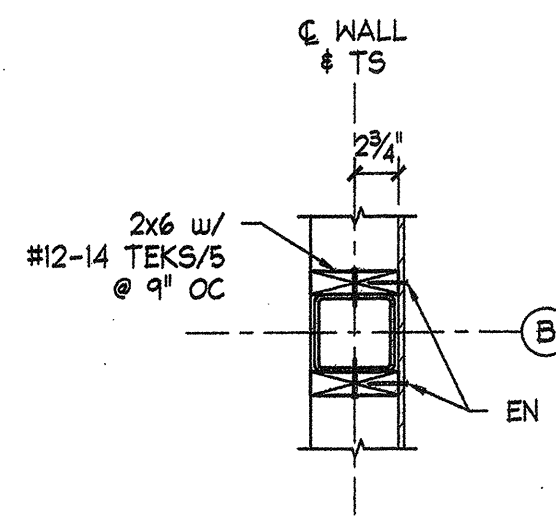
jh lawder, inc.
structural engineers
717 6th Street, Ste. 4, Modesto, CA 95354
(209) 521-1143 Fax: (209) 521-1186

Same Construction Company, Inc.
1565 Cummins Drive • P.O. Box 4710 • Modesto, CA 95352
(209) 523-2874 • FAX (209) 523-0213

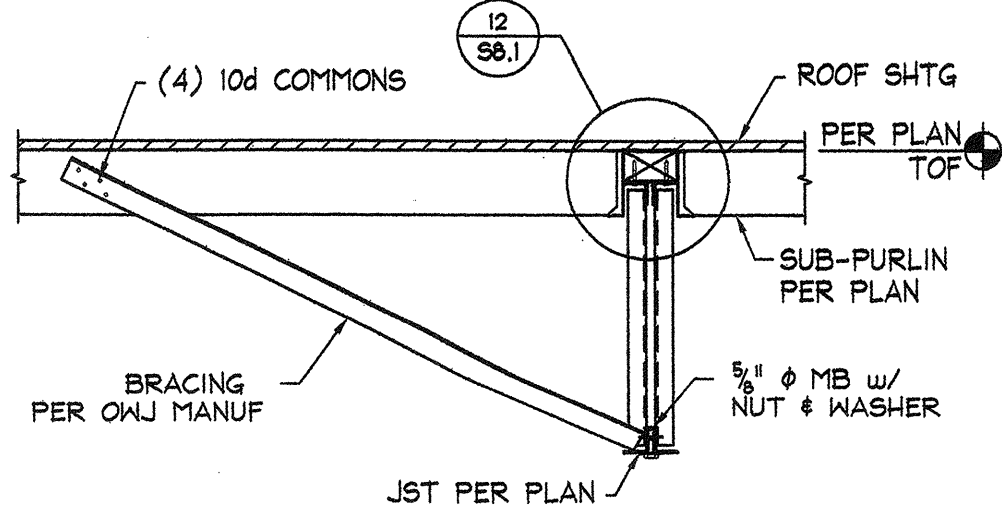
FOUNDATION PLAN
SJVAPCD OFFICE BUILDING
MODESTO, CA

REVISIONS	BY
12/01/04 PC	pl

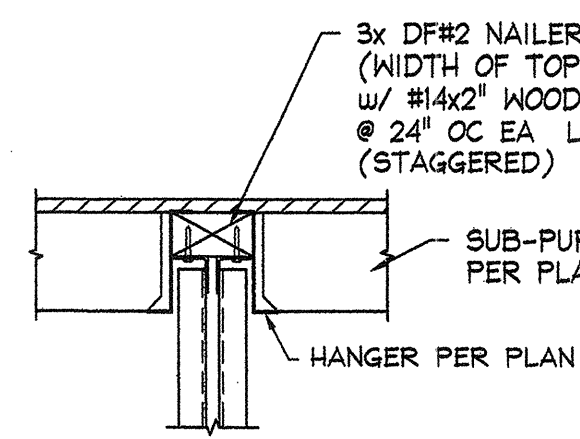
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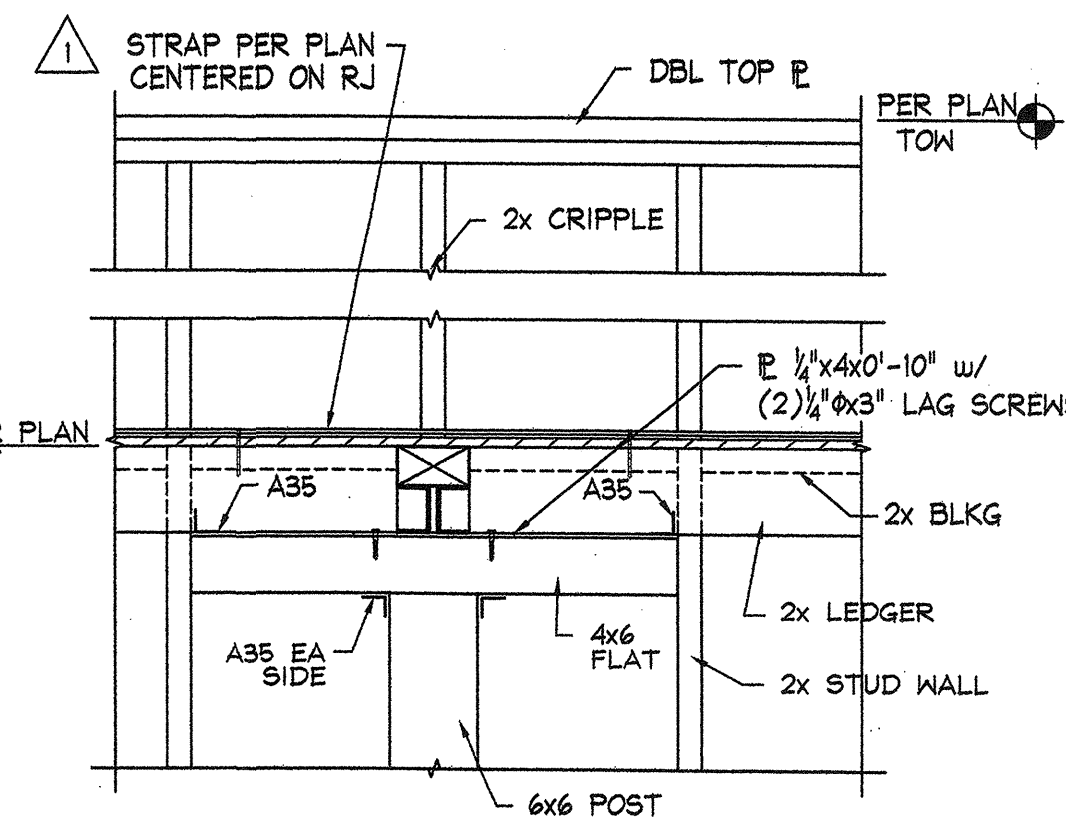
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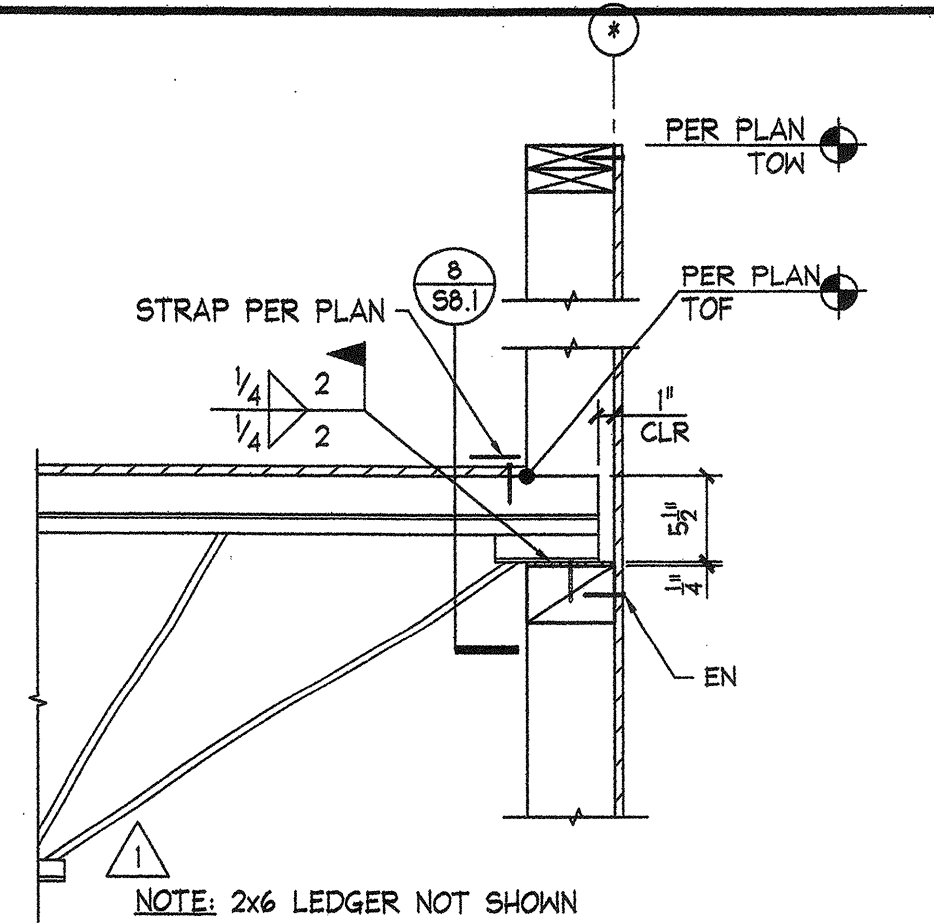
16 JOIST BRACE DETAIL
3/4\"/>



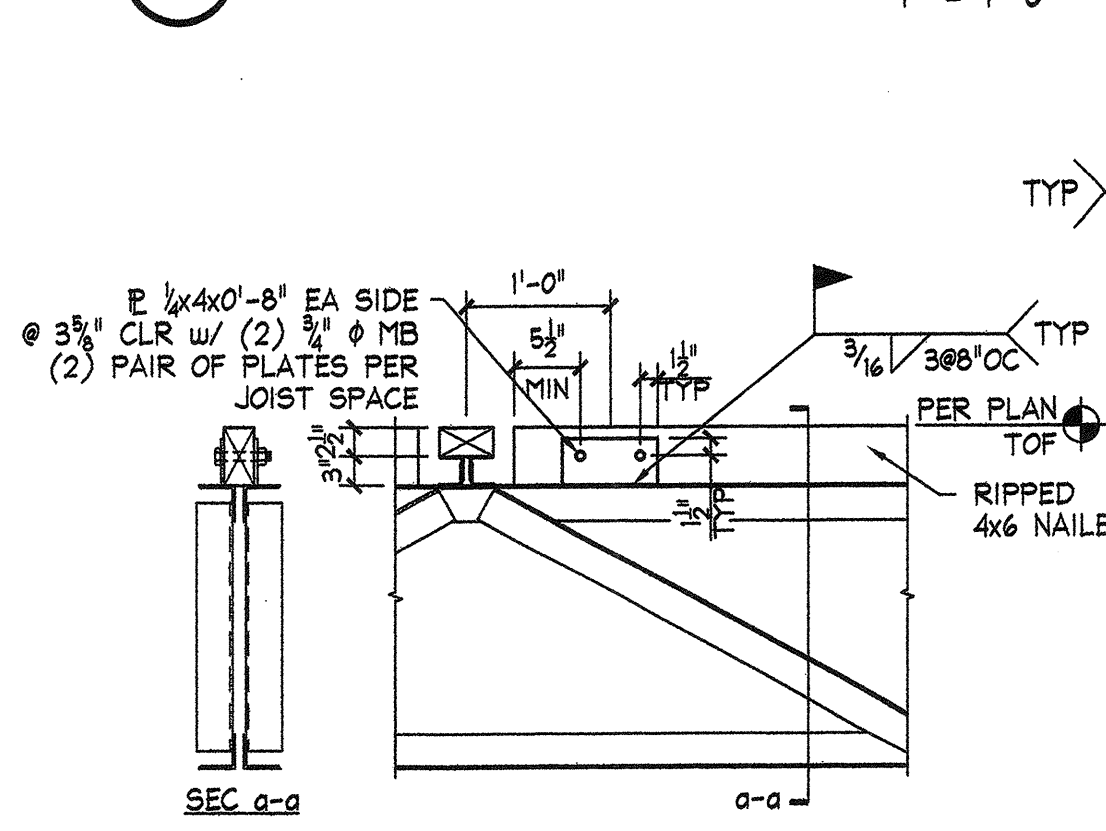
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@ ROOF JOIST
3/4\"/>



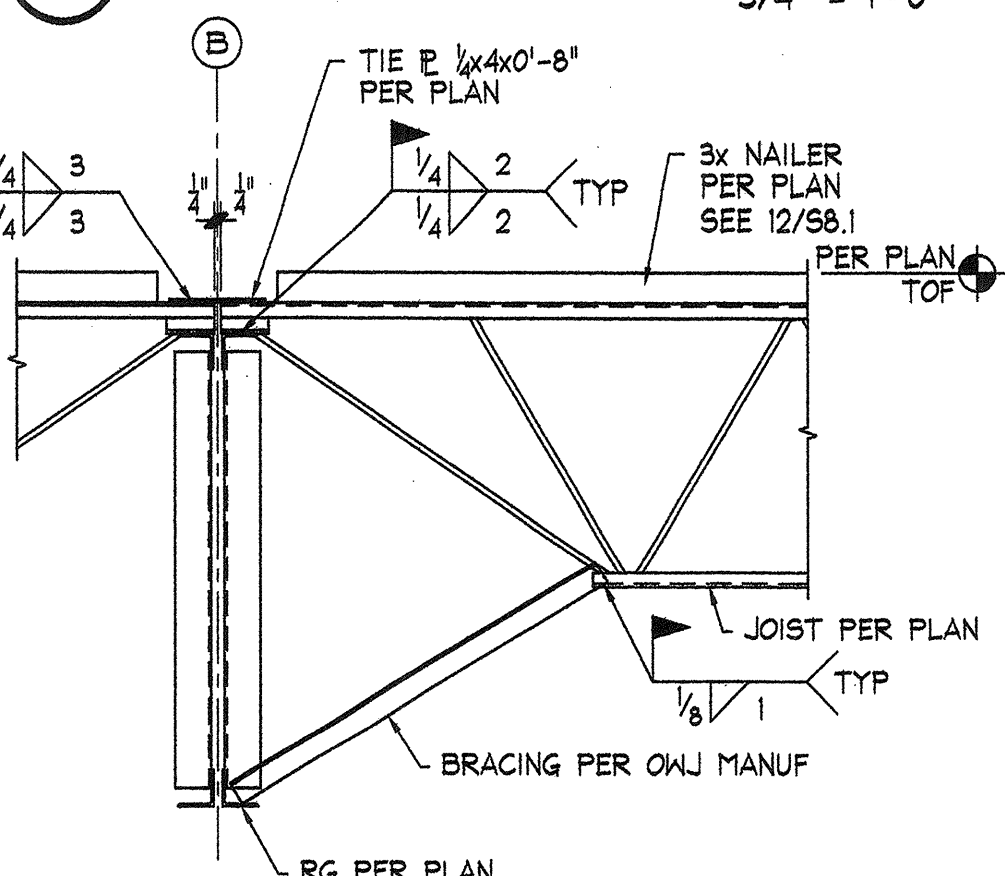
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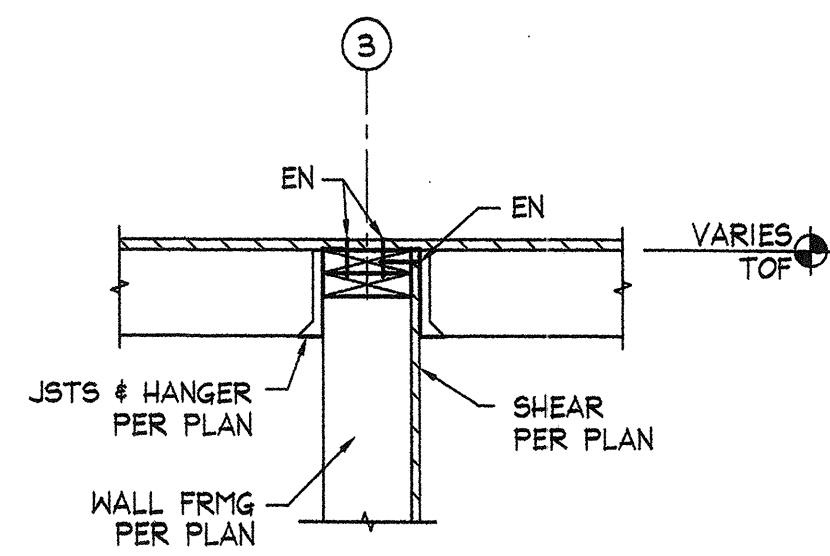
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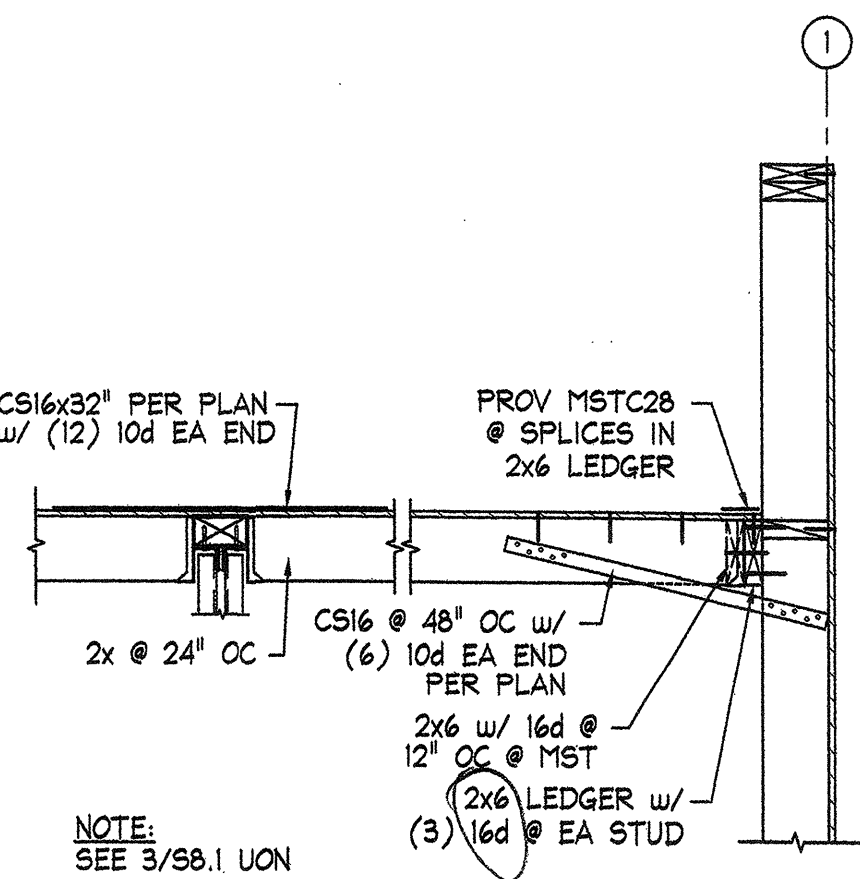
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3/4\"/>



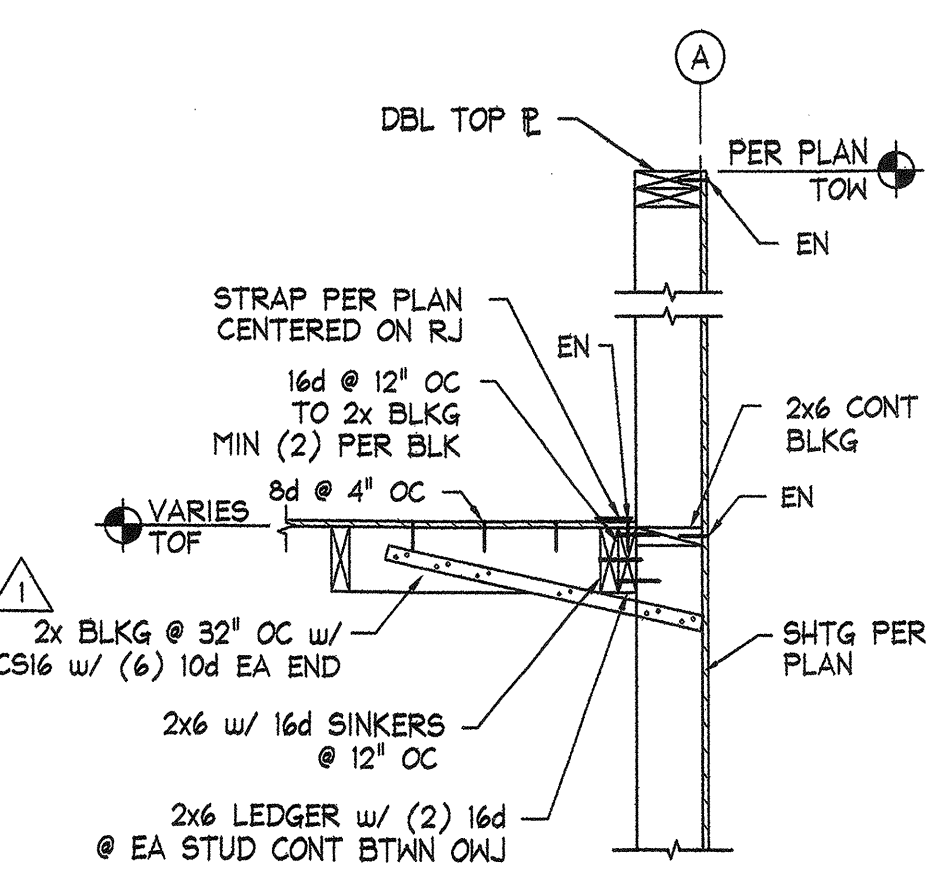
15 JOIST TO GIRDER
3/4\"/>



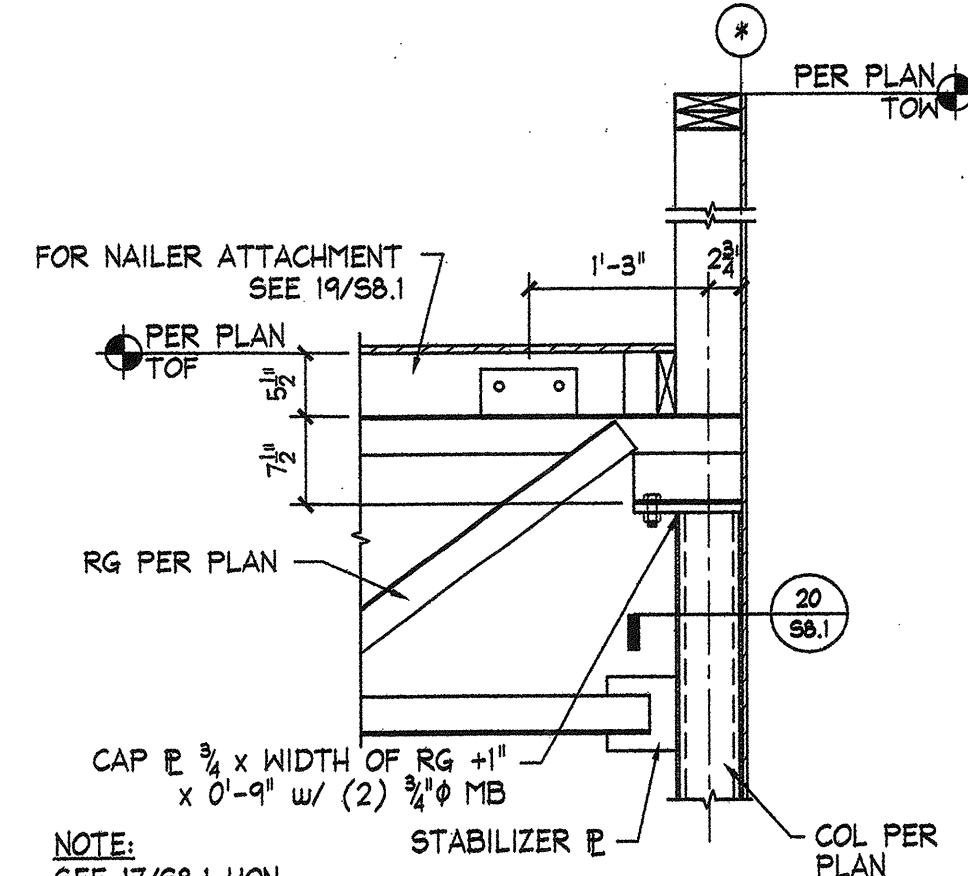
11 DETAIL
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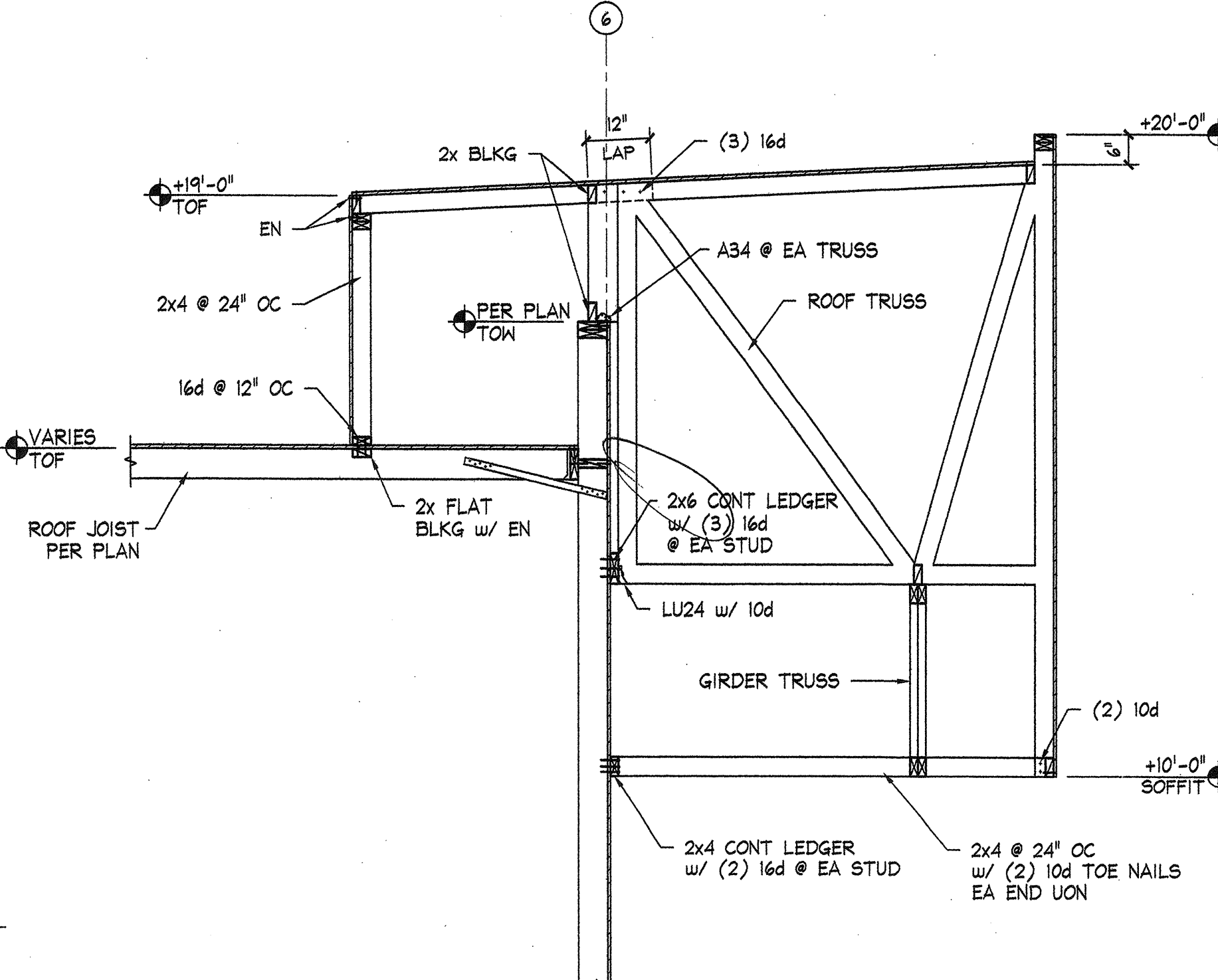
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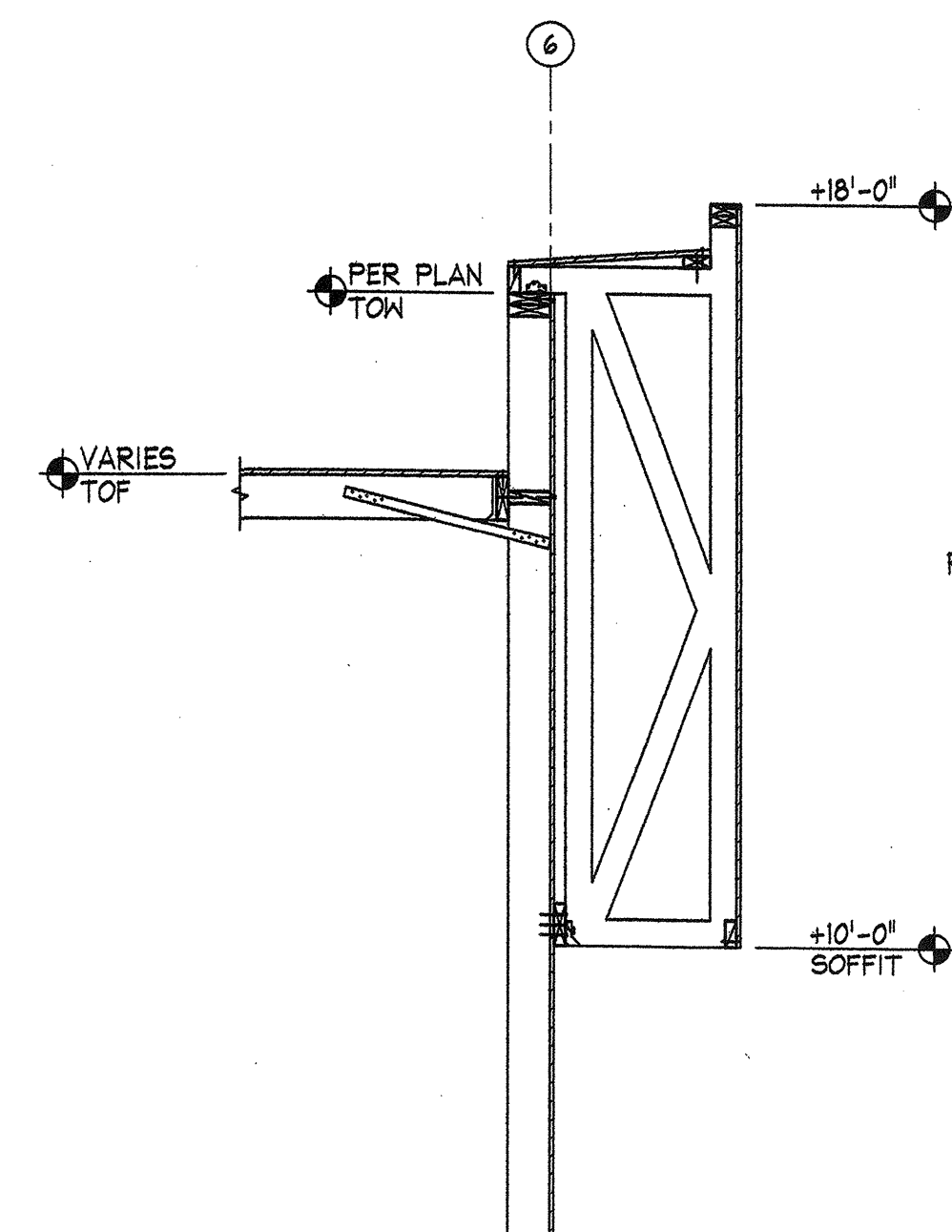
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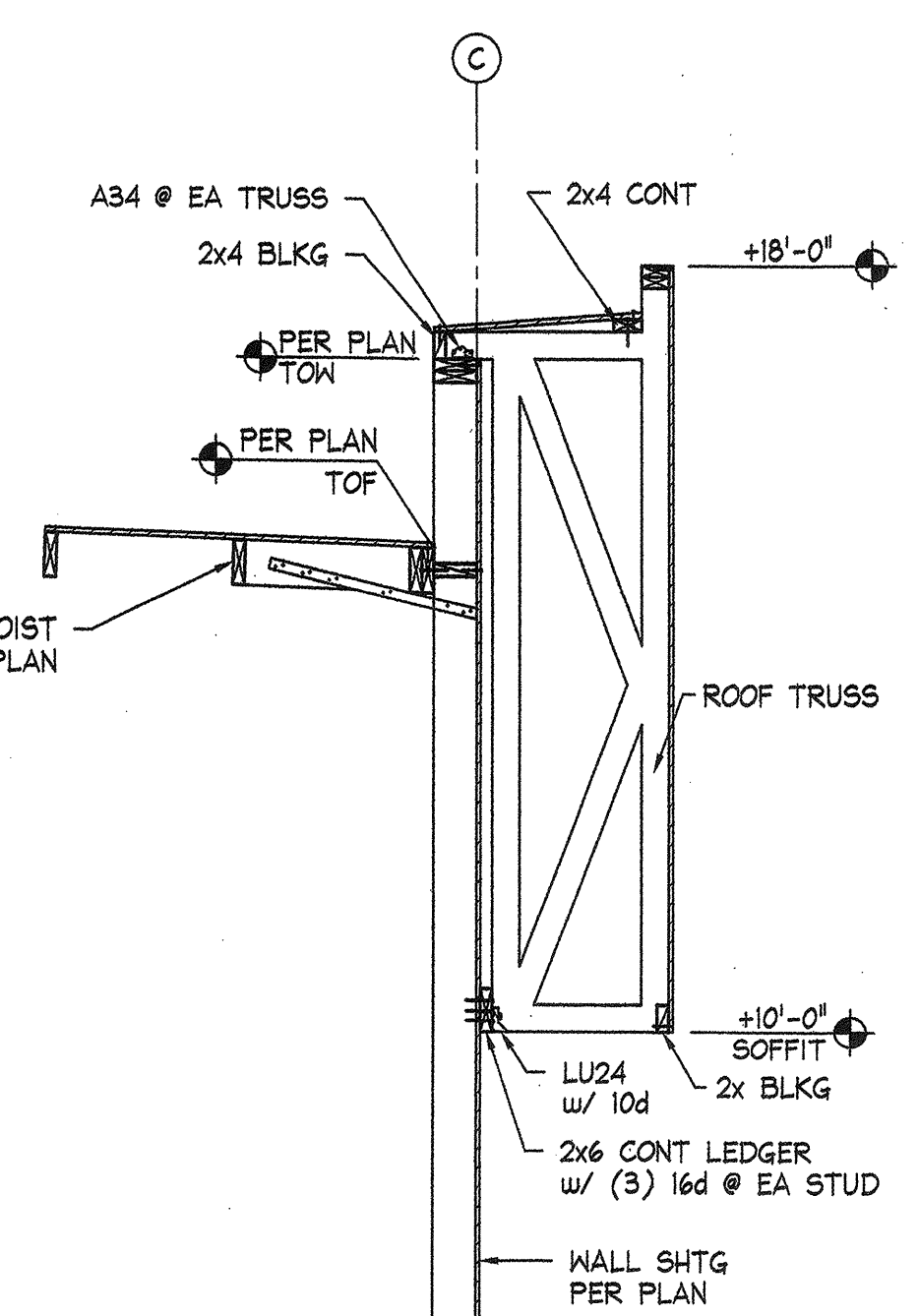
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3/4\"/>



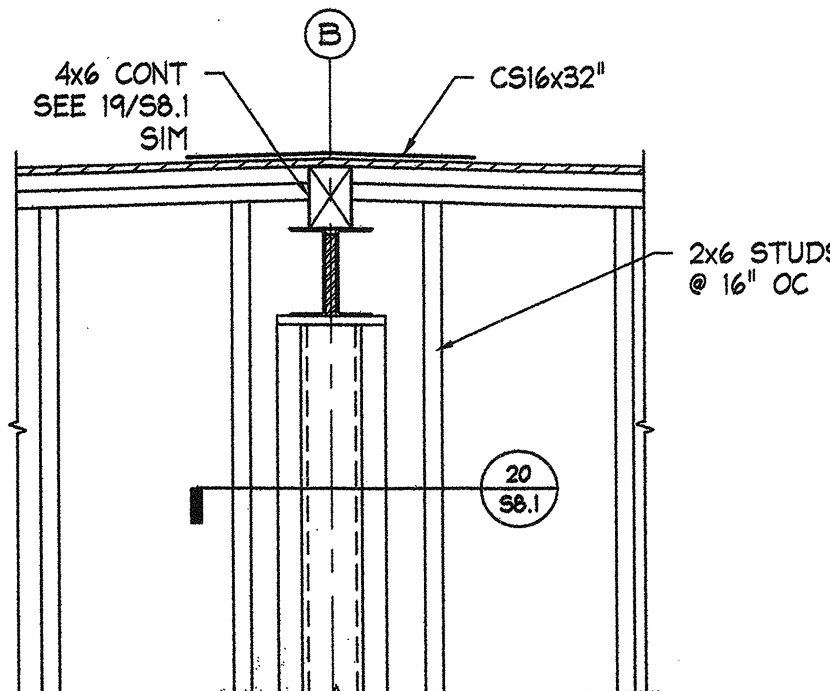
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1/2\"/>



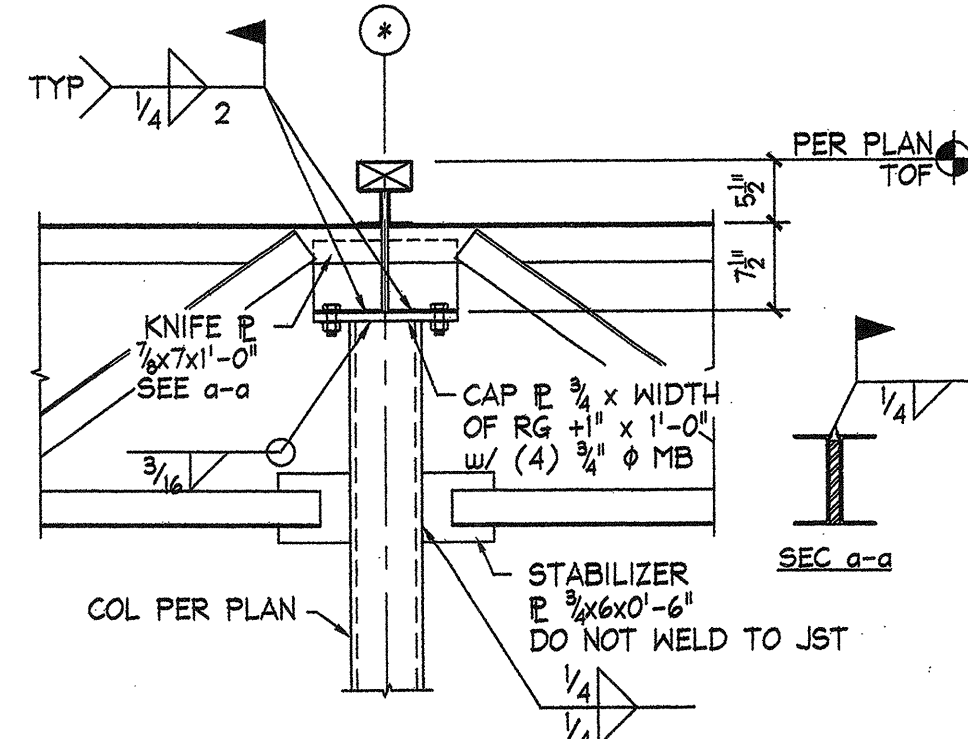
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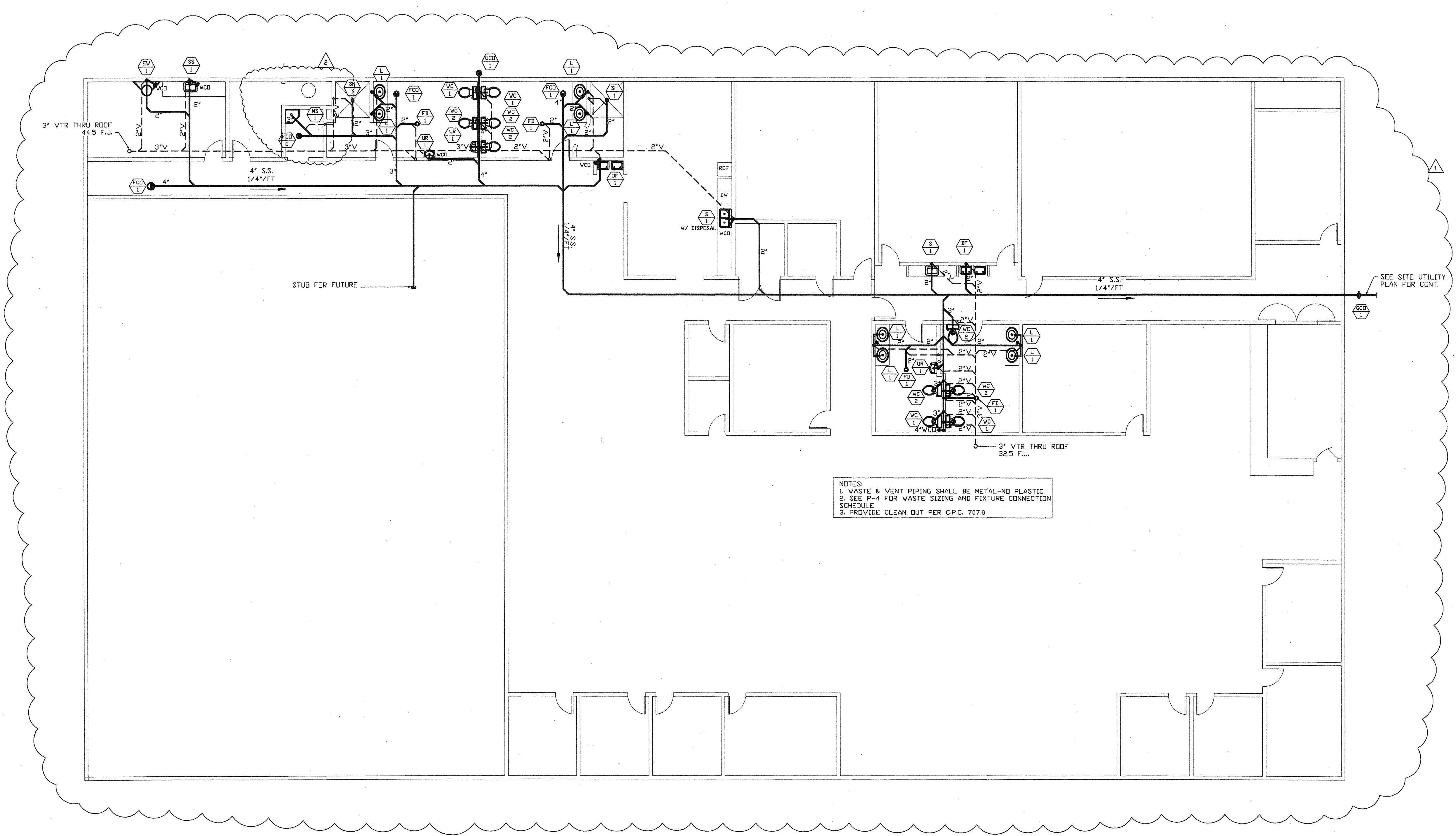
1 FRAMING DETAIL
1/2\"/>



21 GIRDER TO COLUMN
3/4\"/>



17 GIRDER TO COLUMN
3/4\"/>



NOTES:
1. WASTE & VENT PIPING SHALL BE METAL-NO PLASTIC
2. SEE P-4 FOR WASTE SIZING AND FIXTURE CONNECTION SCHEDULE
3. PROVIDE CLEAN OUT PER C.P.C. 707.0

RECEIVED
DEC 13 2004
ACME CONSTRUCTION CO., INC.

REVISIONS		DATE
1	PER PLAN CHECK	11/24/04
2	PER PLAN CHECK	12/13/04
3		

DEHART
Plumbing, Heating & Air, Inc.
SINCE 1946
1213-04
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LICENSE #T24566

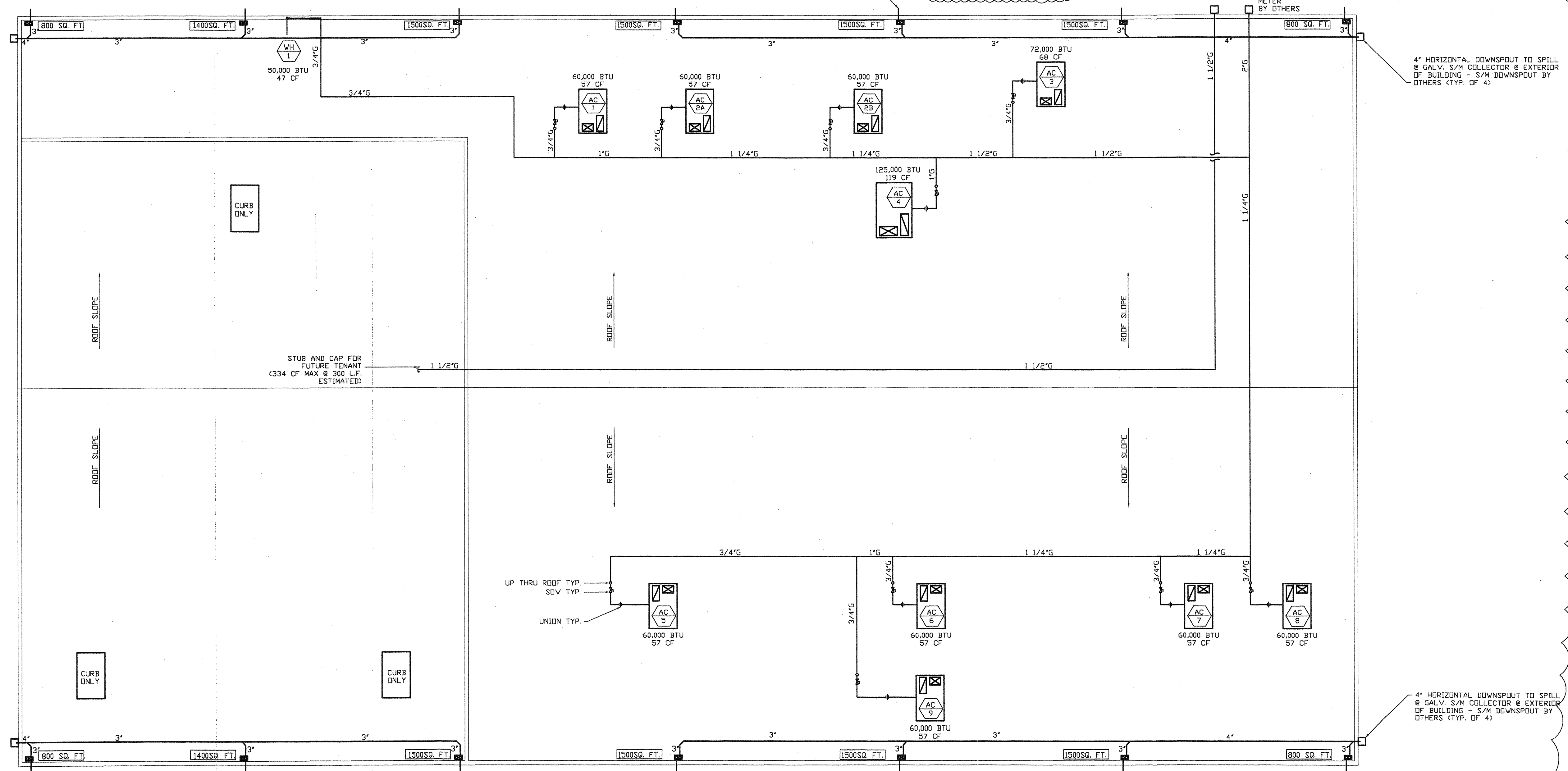
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PROJECT TITLE	PAGE TITLE
SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT MODESTO, CA	WASTE PIPING PLAN

DATE:	10/19/04
DRAWN BY:	M.TAYLOR
DESIGNED BY:	E. FLECK
SCALE:	SHOWN
SHEET NO.	P1

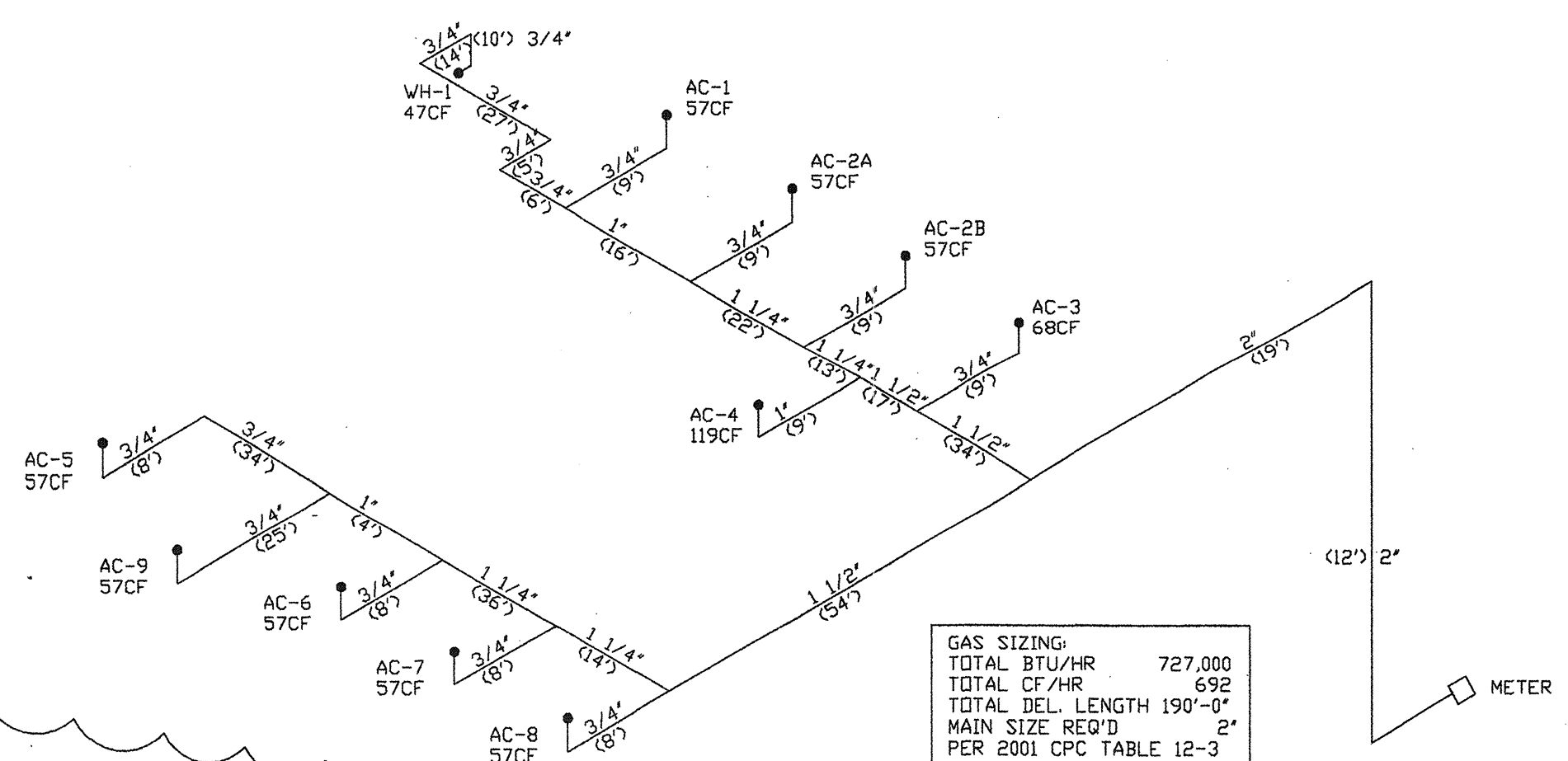
ROOF DRAIN SIZING:
TOTAL SQUARE FOOTAGE - THIS SECTION 3,700 SQ. FT.
TOTAL SQUARE FOOTAGE AREA PER DRAIN - MARKED AT EACH DRAIN
ROOF DRAIN SIZE 3"
OVERFLOW SIZE 3"
CALCULATED RAINFALL PER HOUR 2"
SIZED PER CPC TABLE 11-1

ROOF DRAIN SIZING:
TOTAL SQUARE FOOTAGE - THIS SECTION 5,300 SQ. FT.
TOTAL SQUARE FOOTAGE AREA PER DRAIN - MARKED AT EACH DRAIN
ROOF DRAIN SIZE 3"
OVERFLOW SIZE 3"
CALCULATED RAINFALL PER HOUR 2"
SIZED PER CPC TABLE 11-1



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ROOF DRAIN SIZE 3"
OVERFLOW SIZE 3"
CALCULATED RAINFALL PER HOUR 2"
SIZED PER CPC TABLE 11-1



GAS SIZING:
TOTAL BTU/HR 727,000
TOTAL CF/HR 692
TOTAL DEL. LENGTH 190'-0"
MAIN SIZE REQ'D 2"
PER E201 CPC TABLE 12-3

ROOF PLUMBING PLAN

REVISIONS		DATE
PER PLAN CHECK		11/29/04
PER PLAN CHECK		12/13/04

DEHART
Plumbing Heating & Air, Inc.
SINCE 1966
12-13-04
204 KERR AVE. • MODESTO, CA 95354
PH (209) 523-4515 • FAX (209) 523-4561
LICENSE #124566

PROJECT TITLE	PAGE TITLE
SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT MODESTO, CA	ROOF PLUMBING PLAN

DATE:	10/19/04
DRAWN BY:	M. TAYLOR
DESIGNED BY:	E. FLECK
SCALE:	SHOWN
SHEET NO.	P3

NOT USED

NOT USED

ROOR DRAIN DETAIL N.T.S.

PLUMBING LEGEND

NOT USED

NOT USED

FIXTURE CONNECTION SCHEDULE

BUILDING PLUMBING NOTES

DOMESTIC WATER DEMAND AND PIPE SIZING

WATER PIPES SHALL BE SIZED BY APPENDIX "A" OF THE UNIFORM PLUMBING CODE WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:
1. PRESSURE LOSSES IN THE SYSTEM DUE TO BACKFLOW PREVENTION VALVE, WATER SOFTENER, ETC. (EXCEPT WATER METERS).
2. SINGLE STORY STRUCTURE WITH BACKFLOW PREVENTION VALVE.
3. STRUCTURES OVER TWO STORIES.
4. TOTAL DEVELOPED LENGTH OVER 1,000 FEET.

PLAN CHECK # _____ DATE: 11/11/04 PREPARED BY: E. FLECK
PROJECT: SJVAPGD LOCATION: MODESTO, CA

WATER METER SIZE 2" EQUAL TOTAL GPM 56
TOTAL FIXTURE UNITS, 64.5
TOTAL DISTANCE FROM WATER METER TO MOST REMOTE FLGS FIXTURE, 420'
TOTAL RISE FOR HEAD LOSS FT. 4' X 0.43 1.72 PSI
PSI REQUIRED FOR WATER CLOSET/URINAL (*F.V. = 15.0 PSI, F.T. = 8.0 PSI) 15.0 PSI
PSI FLOW LOSS THROUGH WATER METER (CHART A-1) 3.0 PSI
PSI FLOW LOSS THROUGH BACKFLOW PREVENTER (RP=12.0 PSI, D.C.=12.0 PSI) 12.0 PSI
TOTAL SYSTEM LOSS 31.72 PSI

MINIMUM PSI AVAILABLE @ JOBSITE 50
TOTAL SYSTEM LOSS IN PSI 31.72
REMAINING PSI AVAILABLE (IF NEGATIVE USE BOOSTER PUMP) 18.28
BOOSTER PUMP PSI N/A
TOTAL REMAINING PSI AVAILABLE 18.28
PSI AVAILABLE 18.28 / 420 TOTAL FEET = .0435 PSI/100 FT.
USE LINE 2" ON CHART A-4

2" PIPE WILL DELIVER 64.5 GPM FOR 167 *F.V. FIXTURE UNITS 300
1 1/2" PIPE WILL DELIVER 35.5 GPM FOR 20 *F.V. FIXTURE UNITS 65
1 1/4" PIPE WILL DELIVER 23 GPM FOR 0 *F.V. FIXTURE UNITS 33 *F.T. FIXTURE UNITS
1" PIPE WILL DELIVER 13 GPM FOR 0 *F.V. FIXTURE UNITS 16 *F.T. FIXTURE UNITS
3/4" PIPE WILL DELIVER 7 GPM FOR 0 *F.V. FIXTURE UNITS 7 *F.T. FIXTURE UNITS
1/2" PIPE WILL DELIVER 2.5 GPM FOR 0 *F.V. FIXTURE UNITS 2.5 *F.T. FIXTURE UNITS
PIPE WILL DELIVER GPM FOR *F.V. FIXTURE UNITS *F.T. FIXTURE UNITS
PIPE WILL DELIVER GPM FOR *F.V. FIXTURE UNITS *F.T. FIXTURE UNITS
PIPE WILL DELIVER GPM FOR *F.V. FIXTURE UNITS *F.T. FIXTURE UNITS
PIPE WILL DELIVER GPM FOR *F.V. FIXTURE UNITS *F.T. FIXTURE UNITS
PIPE WILL DELIVER GPM FOR *F.V. FIXTURE UNITS *F.T. FIXTURE UNITS
PIPE WILL DELIVER GPM FOR *F.V. FIXTURE UNITS *F.T. FIXTURE UNITS

F.V. = FLUSHOMETER
F.T. = FLUSH TANK

FIXTURE DESCRIPTION QTY F.U. EACH TOTAL F.U. HOT F.U.

WC-1 & 2 TANK 10 2.5 25.0 0

L-1 8 1.0 8.0 6.0

S-1 & 2 3 2.0 6.0 4.5

UR-1 3 4.0 12.0 0

MS-1 1 3.0 3.0 2.25

SH-1 2 2.0 4.0 3.0

EW-1 1 1.0 1.0 0

HB-1 1 2.5 2.5 0

HB-1(EA ADDITIONAL) 2 1.0 2.0 0

DF-1 2 0.5 1.0 0

TOTAL(S) 64.5 15.75

2" MINIMUM REQUIRED PER 2001 CPC (CHART A-4- APPENDIX "A")

FIXTURE DESCRIPTION QTY F.U. EACH TOTAL F.U.

WC-1 & WC-2 10.0 4.0 40.0

L-1 8.0 2.0 16.0

S-1 & 2 3 2.0 6.0

UR-1 3 2.0 6.0

MS-1(3") 1 3.0 3.0

SH-1 2 2.0 4.0

EW-1 1 1.0 1.0

DF-1 2 0.5 1.0

FD-1(EMERGENCY) 4 0 0

TOTAL(S) 77.0

4" MIN. REQUIRED PER 2001 CPC TABLE 7-5

FIXTURE DESCRIPTION DESCRIPTION

WC-1 KOHLER # K-3427 ADA APPROVED "TANK TYPE" WATER CLOSET WITH CHURCH #255SSC OPEN FRONT SEAT

WC-2 KOHLER # K-3423 STANDARD HEIGHT "TANK TYPE" WATER CLOSET WITH CHURCH # 255SSC OPEN FRONT SEAT

L-1 & 2 KOHLER # K-2900-4 FARMINGTON 19x19 LAVATORY WITH T&S B-2711 SINGLE HANDLE FAUCET

S-1 DAYTON # D11721-20 ga STAINLESS STEEL SINGLE COMPARTMENT SINK WITH MOEN # 67426 SINGLE HANDLE FAUCET

S-2 DAYTON # DSE23322 20 ga STAINLESS STEEL 2-COMPARTMENT SINK WITH MOEN # 67426 SINGLE HANDLE FAUCET AND BADGER 5 DISPOSAL

UR-1 KOHLER # K-4880-ET "BARON" WALL HUNG URINAL WITH SLOAN # 186 "REGAL" FLUSH VALVE.

MS-1 KOHLER # K-8710 "WHITBY" CAST IRON CORNER SERVICE SINK WITH T&S @ 5-0555-BSTR SERVICE SINK FAUCET, RIM GUARD, 5-0" HOSE AND WALL BARCKET

SH-1 FLORESTONE # 35-62H CALIFORNIA ADA COMPLIANT FIBERGLASS SHOWER WITH MOEN # 6346 SHOWER VALVE, HAND SHOWER & SLIDE BAR

DF-1 HAWS # HWUACL BI-LEVEL ADA APPROVED ELECTRONIC DRINKING FOUNTAIN

EW-1 HAWS # 7280 BT WALL MOUNT EYE WASH W/ GREEN PLASTIC BOWL

WH-1 BRADFORD WHITE # M-4-50376FN-5- 50 GALLON NATURAL GAS HOT WATER HEATER.

FD-1 ZURN # 286-FP2280-N.H. CAST IRON FLOOR DRAIN WITH ADJUSTABLE NICKLE BRONZE TOP

TP-1 P.P.P. #500 AUTOMATIC TRAP PRIMER WITH DISTRIBUTION CUP FOR MULTIPLE DRAINS

FCO-1 ZURN -286 C02500-N.H. CAST IRON FLOOR CLEAN OUT WITH ADJUSTABLE NICKLE BRONZE TOP

RD-1 JR. SMITH #80-1-1481 CAST IRON COMBINATION ROOF OVERFLOW DRAIN W/ CAST IRON DOME STRAINER

GCO-1 CHRISTY #G-5 10 3/8" x 12" CONCRETE UTILITY BOX WITH LID MARKED SEWER

IMB-1 SPECIALTY PRODUCTS #08-104 PLASTIC ICE MARKER OUTLET

HB-1 WOODFORD #24P-3/4" HOSE BIB WITH VACUUM BREAKER

WATER HETAER

16ga x 3" GALV. STRAP AT UPPER 2/3 & LOWER 1/3

SECURE 4x4 IN PLACE WITH 16d NAILS TYP. OF 3

PROVIDE 4x4 BOLCKING SHAPE TO MATCH WATER HEATER CONTOUR

(2) 3/8"DIA. x3" LAG BOLTS WITH WASHERS ANCHOR TO 2x4 BOLCKING SECURE AT EACH END TYP.

WATER HEATER

REFER TO SECTION FOR ATTACHMENT OF STRAP TO WALL

1/2" HOSE BIBB

D RIP LEG

GAS COCK

WH-1

3"x16 GA GALV SM STRAP W 3/8" QAD. PLATED LAG BOLT INTO STUDS (TYPICAL OF 2) LOCATE IN UPPER AND LOWER 1/3 OF WATER HEATER

RECIRCULATING PUMP

GAS FIRED WATER HEATER

TO DRAIN

3/4" HOT WATER RETURN

AGUSTAT SET FDR 100deg

TIME CLOCK PARAGON 4001-00M MOUNTED ON WALL

T&P RELIFF VALVE

TYPE "B" FLUE VENT SEE PLAN FOR SIZE

COLD WATER MAKEUP

HOT WATER TO SYSTEM

GAS LINE

TYPE "B" FLUE VENT

WATER DEMAND

MAXIMUM WASTE SIZING

PLUMBING FIXT. SCHEDULE

WATER HEATER DETAIL

REVISIONS

DATE

PER PLAN CHECK

11/24/04

PER PLAN CHECK

12/13/04

DEHART

Plumbing Heating & Air, Inc.

SINCE 1946

12-15-04

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PAGE TITLE

PROJECT TITLE

SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

MODESTO, CA

DATE:

10/19/04

DRAWN BY:

M.TAYLOR

DESIGNED BY:

E. FLECK

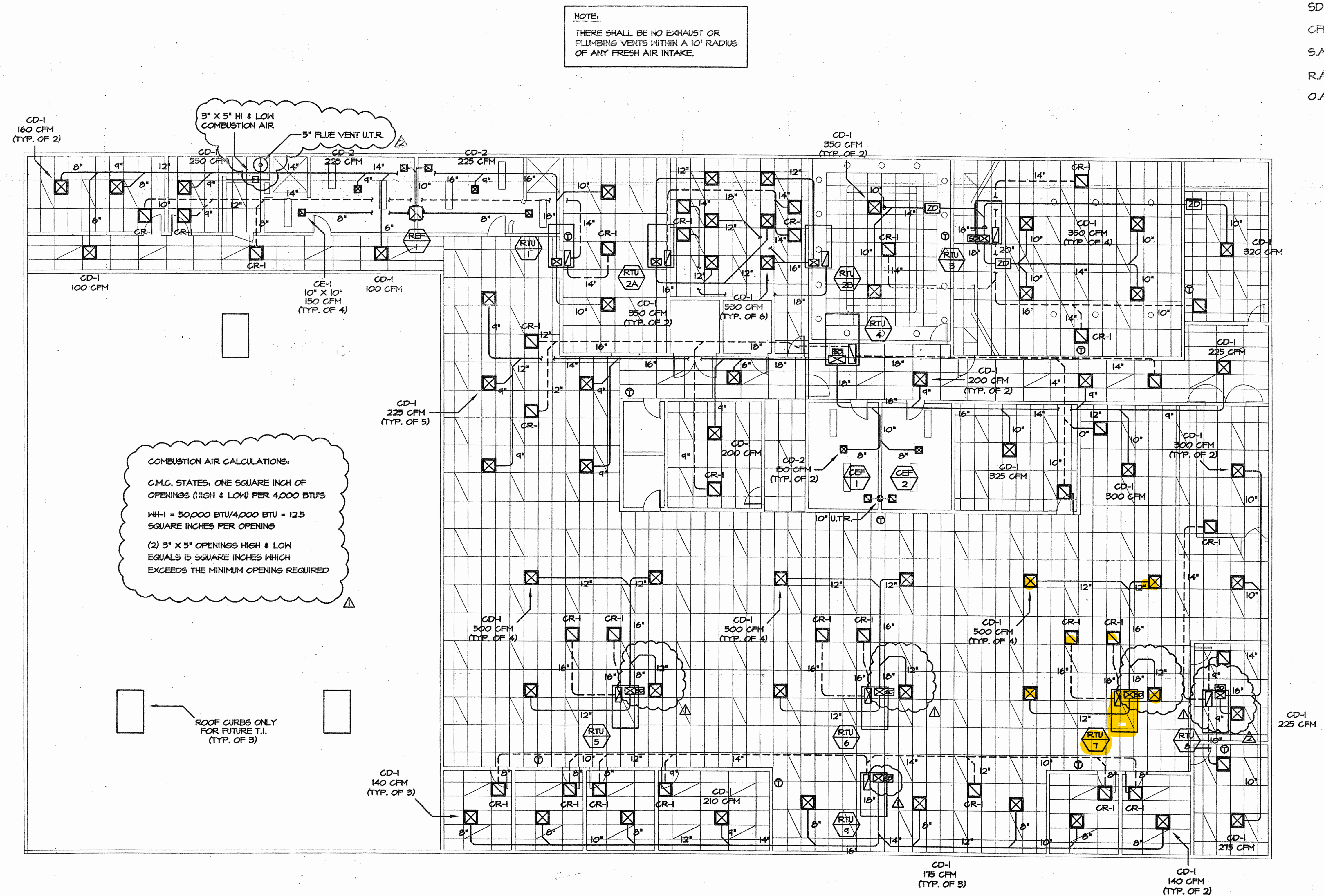
SCALE:

SHOWN

SHEET NO.

P4

16



AIR DISTRIBUTION PLAN
SCALE: 1/8" = 1'-0"

- ☒ SUPPLY AIR DIFFUSER
- ☒ RETURN AIR GRILLE
- ☒ EXHAUST AIR GRILLE
- 1 MANUAL DAMPER
- SD SMOKE DETECTOR
- CFM CUBIC FEET PER MINUTE
- S.A. SUPPLY AIR
- R.A. RETURN AIR
- O.A. OUTSIDE AIR

REVISIONS DATE

△ PLAN CHECK 11/22/04

△ PLAN CHECK 12/13/04

△

DELIART
Plumbing, Heating & Air, L.L.C.
12-13-04
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PROJECT TITLE
SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

PAGE TITLE
AIR DISTRIBUTION PLAN

MODESTO, CA

DATE: 9/28/04

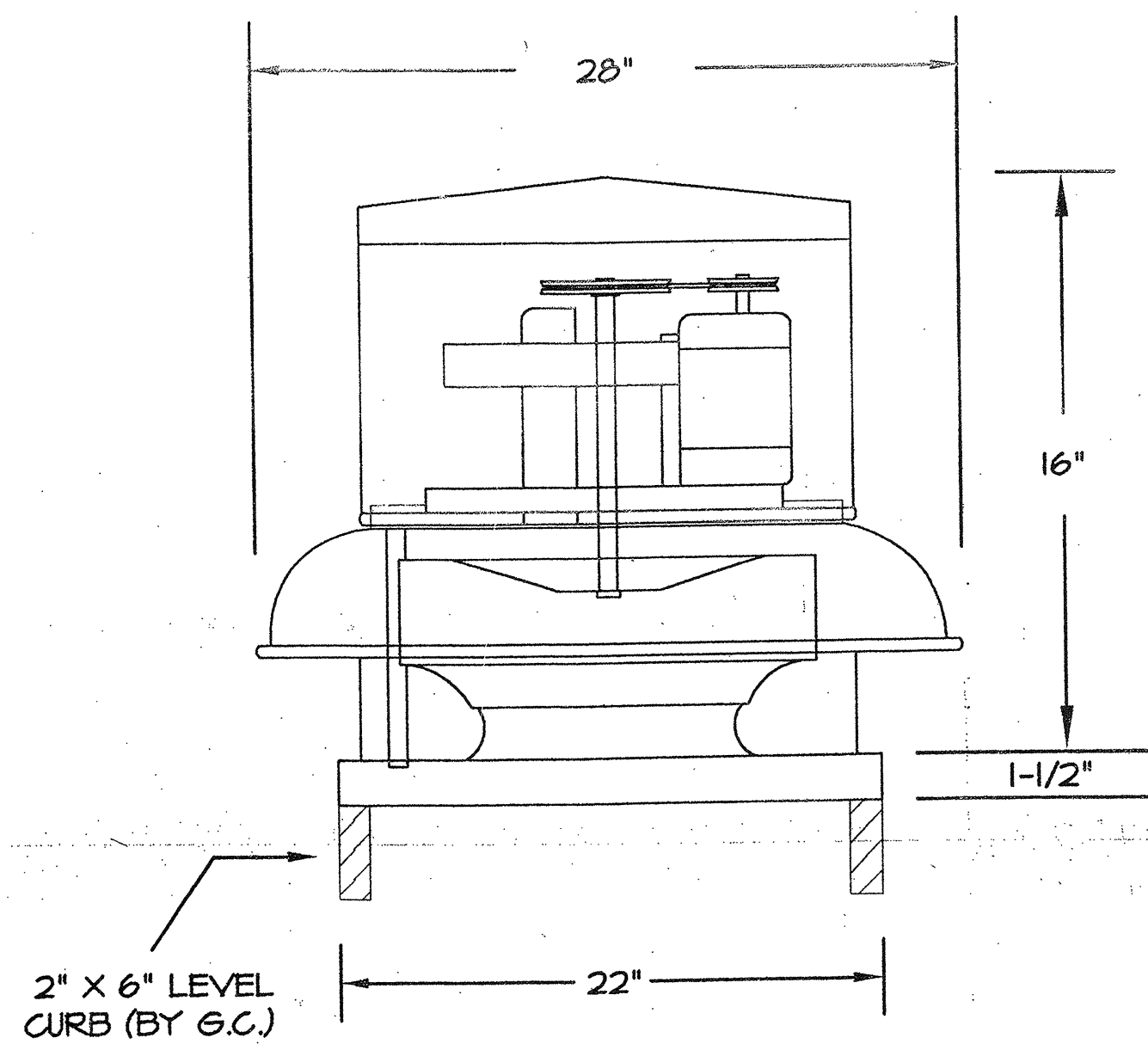
DRAWN BY: J. HARDIN

DESIGNED BY: J. HARDIN

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

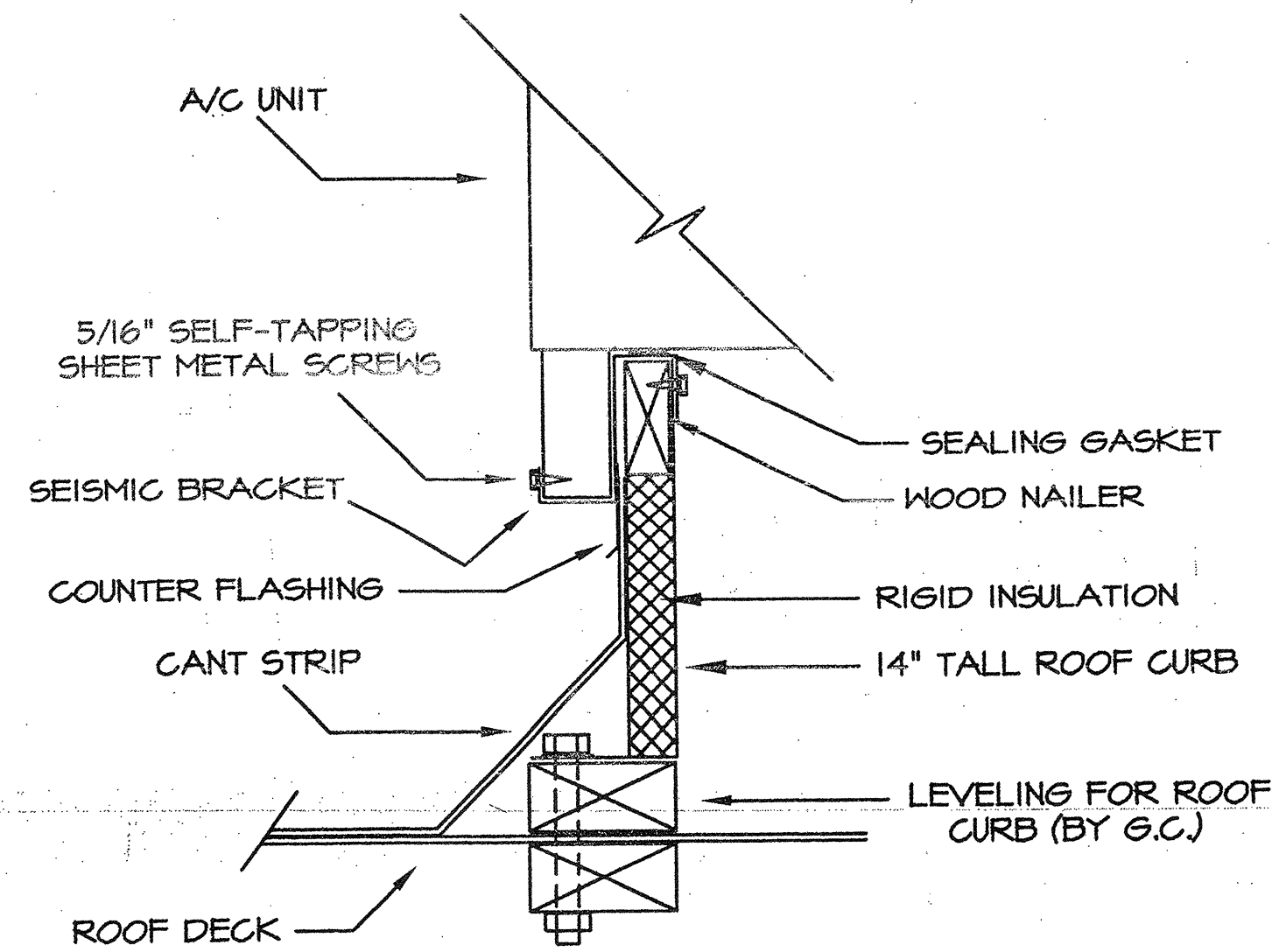
SHEET NO. **M-1**

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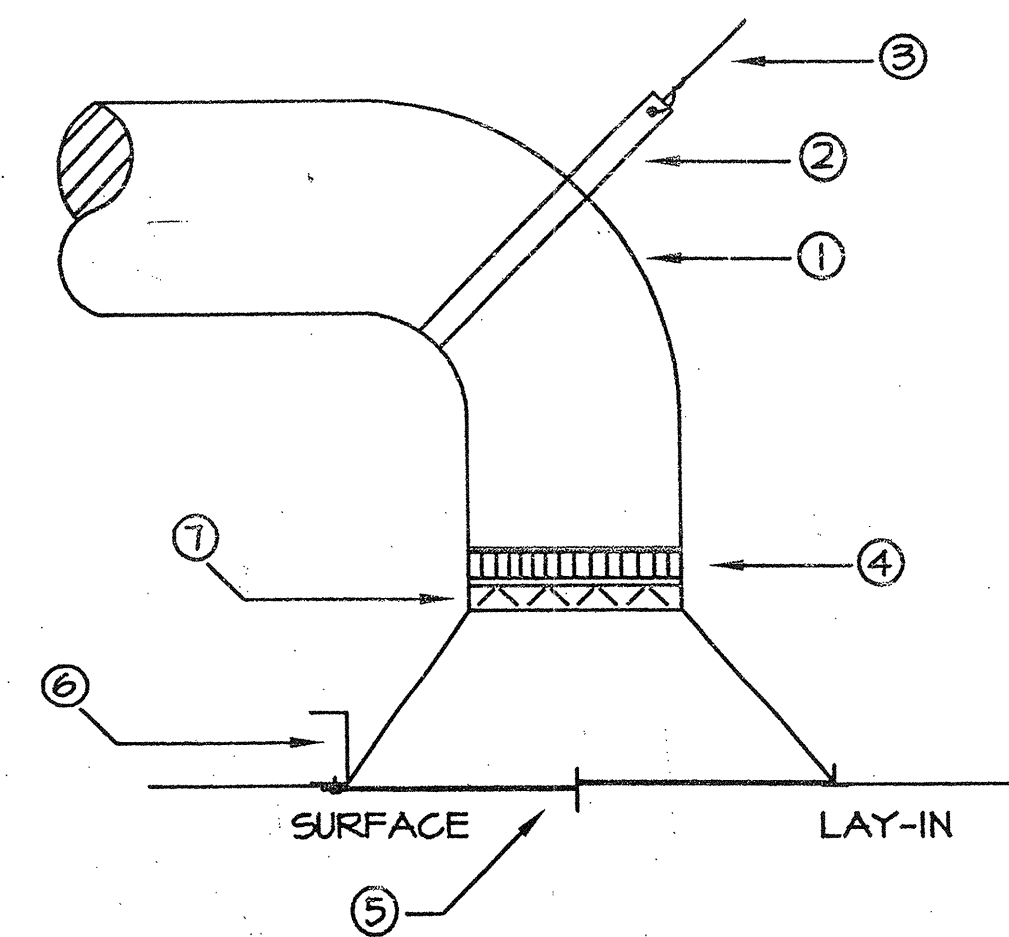
ROOF EXHAUST FAN DETAIL

4



ROOF CURB DETAIL

3

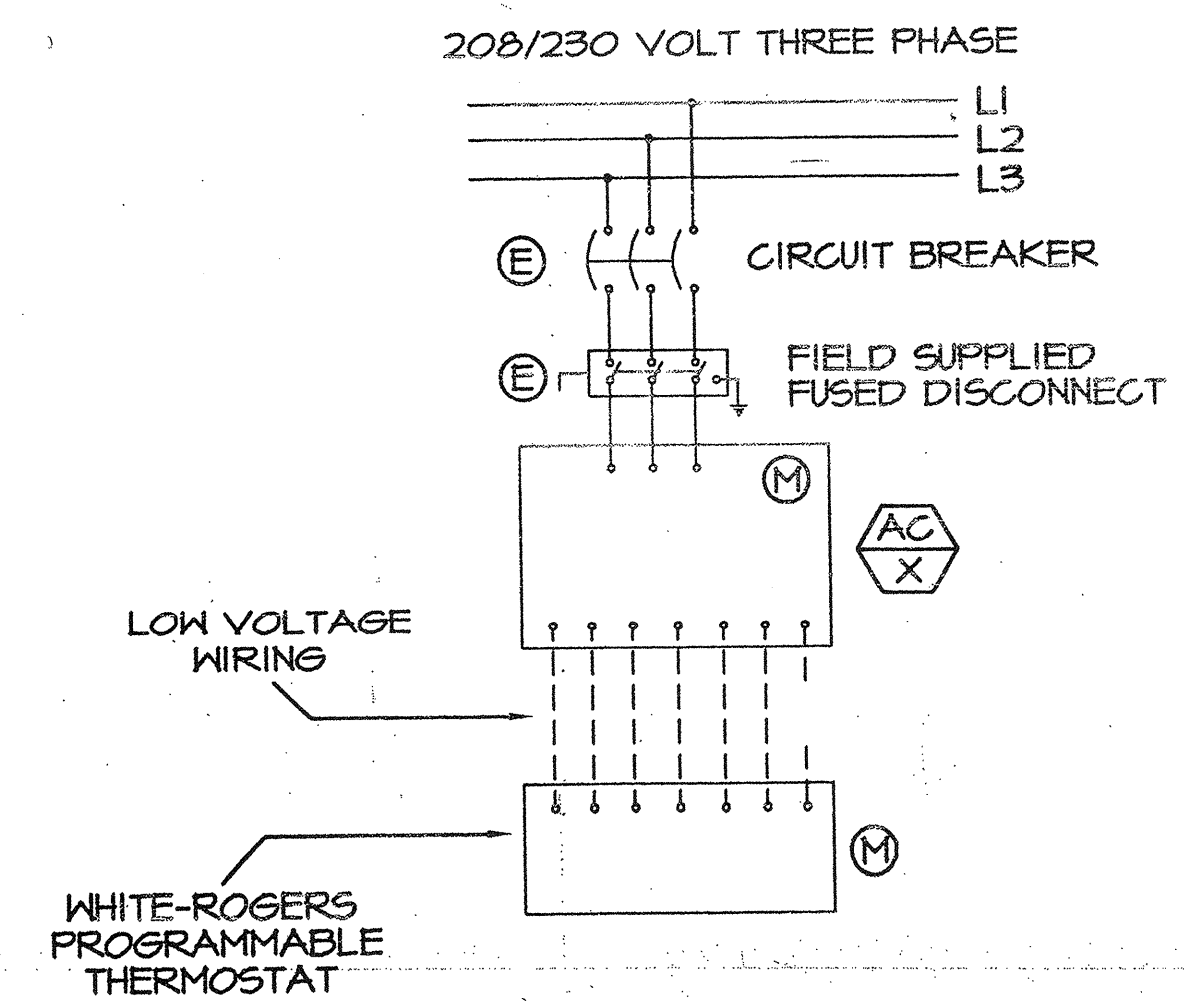


NOTES:

1. FLEX DUCT, RADIUS 150% OF DUCT DIAMETER
2. 24 GAUGE STRAP
3. 12 GAUGE WIRE TO STRUCTURE
4. PANDUIT STRAP
5. TYPICAL DIFFUSER
6. METAL CEILING JOIST
7. OPPOSED BLADE DAMPER

DIFFUSER DETAIL

2



- (M) BY DIVISION 15
(E) BY DIVISION 16

HIGH & LOW VOLTAGE DETAIL

1

MARK	MAKE	MODEL	SIZE	OPTIONS
CD-1	SHOEMAKER	TOOMA	24" X 24"	
CR-1	SHOEMAKER	830	24" X 24"	
CD-2	SHOEMAKER	TOOMA	AS NOTED	W/OBD
CE-1	SHOEMAKER	TOOMA	AS NOTED	

DIFFUSER SCHEDULE

5

MARK	MAKE	MODEL	CFM	E.S.P.	SONES	VOLTAGE	AMPS	WEIGHT
REF-1	DAYTON	4YC88	644	0.5"	10.8	115	2.3	61 LBS.
CEF-1	BROAN	L200	196	0.25"	2.3	115	1.8	21 LBS.
CEF-2	BROAN	L200	196	0.25"	2.3	115	1.8	21 LBS.

MARK	MAKE	MODEL	CFM	COOLING BTU	HEATING BTU	ELECT.	M.C.A.	MOCP	WEIGHT	O.A. CFM
RTU-1	BRYANT	580FPV060060N	2000	60,000	60,000	208-230/3	27.3	35.0	440 LBS.	829
RTU-2A	BRYANT	580FPV048060N	1600	48,000	60,000	208-230/3	24.2	30.0	470 LBS.	66
RTU-2B	BRYANT	580FPV048060N	1600	48,000	60,000	208-230/3	24.2	30.0	470 LBS.	66
RTU-3	BRYANT	580FPV072074	2400	60,000	72,000	208-230/3	32.4	40.0	565 LBS.	862
RTU-4	BRYANT	580FPV090125	3000	60,000	125,000	208-230/3	40.1	45.0	870 LBS.	165
RTU-5	BRYANT	580FPV060060N	2000	60,000	60,000	208-230/3	27.3	35.0	440 LBS.	206
RTU-6	BRYANT	580FPV060060N	2000	60,000	60,000	208-230/3	27.3	35.0	440 LBS.	206
RTU-7	BRYANT	580FPV060060N	2000	60,000	60,000	208-230/3	27.3	35.0	440 LBS.	206
RTU-8	BRYANT	580FPV036060N	1200	36,000	60,000	208-230/3	17.7	25.0	460 LBS.	140
RTU-9	BRYANT	580FPV048060N	1600	48,000	60,000	208-230/3	24.2	30.0	470 LBS.	198

NOTES:

1. PROVIDE SMOKE DETECTORS IN SUPPLY DUCT PER 2001 C.M.C.
2. ALL MECHANICAL EQUIPMENT SHOULD BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY.
3. UNITS RTU-2A & RTU-2B TO BE CONTROLLED WITH A LEAD/LAG RELAY. LOW VOLTAGE TO HAVE A 2-STAGE THERMOSTAT.

EQUIPMENT SCHEDULE

6

1. LINE ALL EXTERIOR PLENUMS WITH 1" DUCT INSULATION AT EXTERIOR OF CHASE.
2. ALL DIFFUSERS SHALL BE LEFT IN FULL OPEN POSITION. ANY SYSTEM BALANCING SHALL BE ACCOMPLISHED BY DUCT DAMPERS.
3. ALL WORK SHALL BE IN ACCORDANCE WITH 2001 C.M.C.
4. ALL PENETRATIONS THROUGH ROOF SYSTEM SHALL BE COORDINATED WITH THE GENERAL & ROOFING CONTRACTORS.
5. THE MECHANICAL CONTRACTOR SHALL VERIFY CURB REQUIREMENTS AND SUPPLY THE REQUIRED CURB AND/OR OTHER ITEMS REQUIRED TO FIT THE HVAC UNIT TO THE DESIGNATED AREAS.
6. ALL THERMOSTATS SHALL BE OF THE SETBACK VARIETY AND SHALL HAVE SET POINTS INDICATING 68 DEGREES ON HEATING AND 78 DEGREES ON COOLING.
7. ALL DUCTWORK USED ON THIS PROJECT SHALL BE INSULATED WITH A R-4.6 RATED DUCT AND A ETHYLENE OUTER WRAP.
8. COORDINATE THE INSTALLATION OF THE GAS SERVICE TO THE HVAC UNIT WITH THE PLUMBING CONTRACTOR.
9. SUPPLY AND INSTALL UNIT WITH PROPER ANCHORAGE.
10. SIZE DIFFUSERS AT GYPSUM BOARD CEILINGS PER MANUFACTURERS CATALOG NUMBER FOR DUCT SIZE.
11. COORDINATE DUCTWORK RUNS TO AVOID CROSSOVER PROBLEMS AT RESTRICTED CLEARANCE AREAS.
12. SUPPLY THE OWNER WITH A COMPLETE PACKAGE INCLUDING MANUALS, OPERATING INSTRUCTIONS, AND WARRANTY CARDS.
13. BALANCE AIR FLOWS, SET OUTDOOR AIR HOODS TO MAXIMUM OPEN POSITION.
14. PROGRAM THERMOSTATS TO OWNERS REQUIREMENTS.
15. MOUNT THERMOSTATS BETWEEN 36" - 48" A.F.F.

MECHANICAL NOTES

7

REVISIONS

PLAN CHECK	11/22/04
PLAN	12/13/04

DATE

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LIC# 9121666

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PAGE TITLE

DETAILS & SCHEDULES

PROJECT TITLE

SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

MODESTO, CA

DATE: 9/28/04
DRAWN BY: J. HARDIN
DESIGNED BY: J. HARDIN
SCALE: AS NOTED
SHEET NO.

M-2

ENVELOPE MANDATORY MEASURES

ENV-MM

PROJECT NAME

San Joaquin Valley Air Pollution Control

DATE

11/22/2004

DESCRIPTION	Designer	Enforcement
☒ 118(a) Installed Insulating Material shall have been certified by the manufacturer to comply with the California Quality Standards for insulating material, Title 20, Chapter 4, Article 3.		
☒ 118(c) All Insulating Materials shall be installed in compliance with the flame spread rating and smoke density requirements of Sections 2602 and 707 of Title 24, Part 2.		
☒ 117(a) All Exterior Joints and openings in the building that are observable sources of air leakage shall be caulked, gasketed, weatherstripped or otherwise sealed.		
☒ 118(b) Sits Constructed Doors, Windows and Skylights shall be caulked between the unit and the building, and shall be weatherstripped (except for unframed glass doors and fire doors).		
☒ 118(a)1 Manufactured Doors and Windows installed shall have air infiltration rates not exceeding those shown in Table Number 1-E, of the Standards. Manufactured fenestration products must be labeled for U-value according to NFRC procedures.		
☒ 118(e) Demising Walls in Nonresidential Buildings: The opaque portions of framed demising walls in nonresidential buildings shall have insulation with an installed R-value of no less than R-11 between framing members.		

EnergyPro 3.1

By EnergySoft

User Number: 4751

Job Number:

Page:1 of 3

MECHANICAL MANDATORY MEASURES

Part 1 of 2

MECH-MM

PROJECT NAME

San Joaquin Valley Air Pollution Control

DATE

11/22/2004

DESCRIPTION	Designer	Enforcement
Equipment and Systems Efficiencies		
☒ 111 Any appliance for which there is a California standard established in the Appliance Efficiency Regulations will comply with the applicable standard.		
☒ 115(a) Fan type central furnaces shall not have a pilot light.		
☒ 123 Piping, except that conveying fluids at temperatures between 60 and 105 degrees Fahrenheit, or within HVAC equipment, shall be insulated in accordance with Standards Section 123.		
☒ 124 Air handling duct systems shall be installed and insulated in compliance with Sections 601, 603 and 604 of the Uniform Mechanical Code.		
Controls		
☒ 122(e) Each space conditioning system shall be installed with one of the following:		
☒ 122(e)1A Each space conditioning system serving building types such as offices and manufacturing facilities (and all others not explicitly exempt from the requirements of Section 112 (d)) shall be installed with an automatic time switch with an accessible manual override that allows operation of the system during off-hours for up to 4 hours. The time switch shall be capable of programming different schedules for weekdays and weekends; incorporate an automatic holiday "shut-off" feature that turns off all loads for at least 24 hours; then resumes the normally scheduled operation; and has program backup capabilities that prevent the loss of the device's program and time setting for at least 10 hours if power is interrupted; or		
☐ 122(e)1B An occupancy sensor to control the operating period of the system; or		
☒ 122(e)1C A 4-hour timer that can be manually operated to control the operating period of the system.		
☒ 122(e)2 Each space conditioning system shall be installed with controls that temporarily restart and temporarily operate the system as required to maintain a setback heating and/or a setup cooling thermostat setpoint.		
☐ 122(g) Each space conditioning system serving multiple zones with a combined conditioned floor area more than 25,000 square feet shall be provided with isolation zones. Each zone: shall not exceed 25,000 square feet; shall be provided with isolation devices, such as valves or dampers, that allow the supply of heating or cooling to be setback or shut off independently of other isolation areas; and shall be controlled by a time control device as described above.		
☒ 122(a&b) Each space conditioning system shall be controlled by an individual thermostat that responds to temperature within the zone. Where used to control heating, the control shall be adjustable down to 55 degrees F or lower. For cooling, the control shall be adjustable up to 85 degrees F or higher. Where used for both heating and cooling, the control shall be capable of providing a deadband of at least 5 degrees F within which the supply of heating and cooling is shut off or reduced to a minimum.		
☒ 122(c) Thermostats shall have numeric setpoints in degrees Fahrenheit (F) and adjustable setpoint stops accessible only to authorized personnel.		
☒ 112(b) Heat pumps shall be installed with controls to prevent electric resistance supplementary heater operation when the heating load can be met by the heat pump alone.		

EnergyPro 3.1

By EnergySoft

User Number: 4751

Job Number:

Page:2 of 3

MECHANICAL MANDATORY MEASURES

Part 2 of 2

MECH-MM

PROJECT NAME

San Joaquin Valley Air Pollution Control

DATE

11/22/2004

Description	Designer	Enforcement
Ventilation		
☒ 121(e) Controls shall be provided to allow outside air dampers or devices to be operated. The ventilation rates as specified on these plans.		
☒ 122(f) Gravity or automatic dampers interlocked and closed on fan shutdown shall be provided on the outside air intakes and discharges of all space conditioning and exhaust systems.		
☒ 122(f) All gravity ventilating systems shall be provided with automatic or readily accessible manually operated dampers in all openings to the outside, except for combustion air openings.		
☐ 121(f)1 Air Balancing: The system shall be balanced in accordance with the National Environmental Balancing Bureau (NEBB) Procedural Standards (1983), or Associated Air Balance Council (AABC) National Standards (1989); or		
☒ 121(f)2 Outside Air Certification: The system shall provide the minimum outside air as shown on the mechanical drawings, and shall be measured and certified by the installing licensed C-20 mechanical contractor and certified by (1) the design mechanical engineer, (2) the installing licensed C-20 mechanical contractor, or (3) the person with overall responsibility for the design of the ventilation system; or		
☐ 121(f)3 Outside Air Measurement: The system shall be equipped with a calibrated local or remote device capable of measuring the quantity of outside air on a continuous basis and displaying that quantity on a readily accessible display device; or		
☐ 121(f)4 Another method approved by the Commission.		
Service Water Heating Systems		
☐ 113(b)2 If a circulating hot water system is installed, it shall have a control capable of automatically turning off the circulating pump(s) when hot water is not required.		
☒ 113(b)3B Lavatories in restrooms of public facilities shall be equipped with controls to limit the outlet temperature to 110 degrees F.		
☒ 113(b)3C Lavatories in restrooms of public facilities shall be equipped with one of the following: Outlet devices that limit the flow of hot water to a maximum of 0.5 gallons per minute. Foot actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute. Proximity sensor actuated control valves, and outlet devices that limit the flow of hot water to a maximum of 0.75 gallons per minute. Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.25 gallons/cycle (circulating system). Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.50 gallons/cycle (non-circulating system). Self-closing valves, and outlet devices that limit the flow of hot water to a maximum of 2.5 gallons per minute, and 0.75 gallons/cycle (foot switches and proximity sensor controls).		

EnergyPro 3.1

By EnergySoft

User Number: 4751

Job Number:

Page:3 of 3

REVISIONS

DATE

1

PLAN CHECK

11/22/04

2

PLAN CHECK

12/13/04

DEHART

Plumbing, Heating & Air, Inc.

SINCE 1949

204 KERR AVE. • MODESTO, CA 95354

PH (209) 522-4570 • FAX (209) 523-4587

LICENSE #124566

ALL DESIGNS AND OTHER INFORMATION ON THESE DRAWINGS ARE FOR THE USE OF THE SPECIFIED PROJECT FOR DEHART PLUMBING, HEATING & AIR AND SHALL NOT BE USED OTHERWISE WITHOUT EXPRESS WRITTEN PERMISSION OF DEHART PLUMBING, HEATING & AIR.

4/28/04

PROJECT TITLE

PAGE TITLE

SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT

MANDATORY MEASURES

DATE:

4/28/04

DRAWN BY:

J. HARDIN

DESIGNED BY:

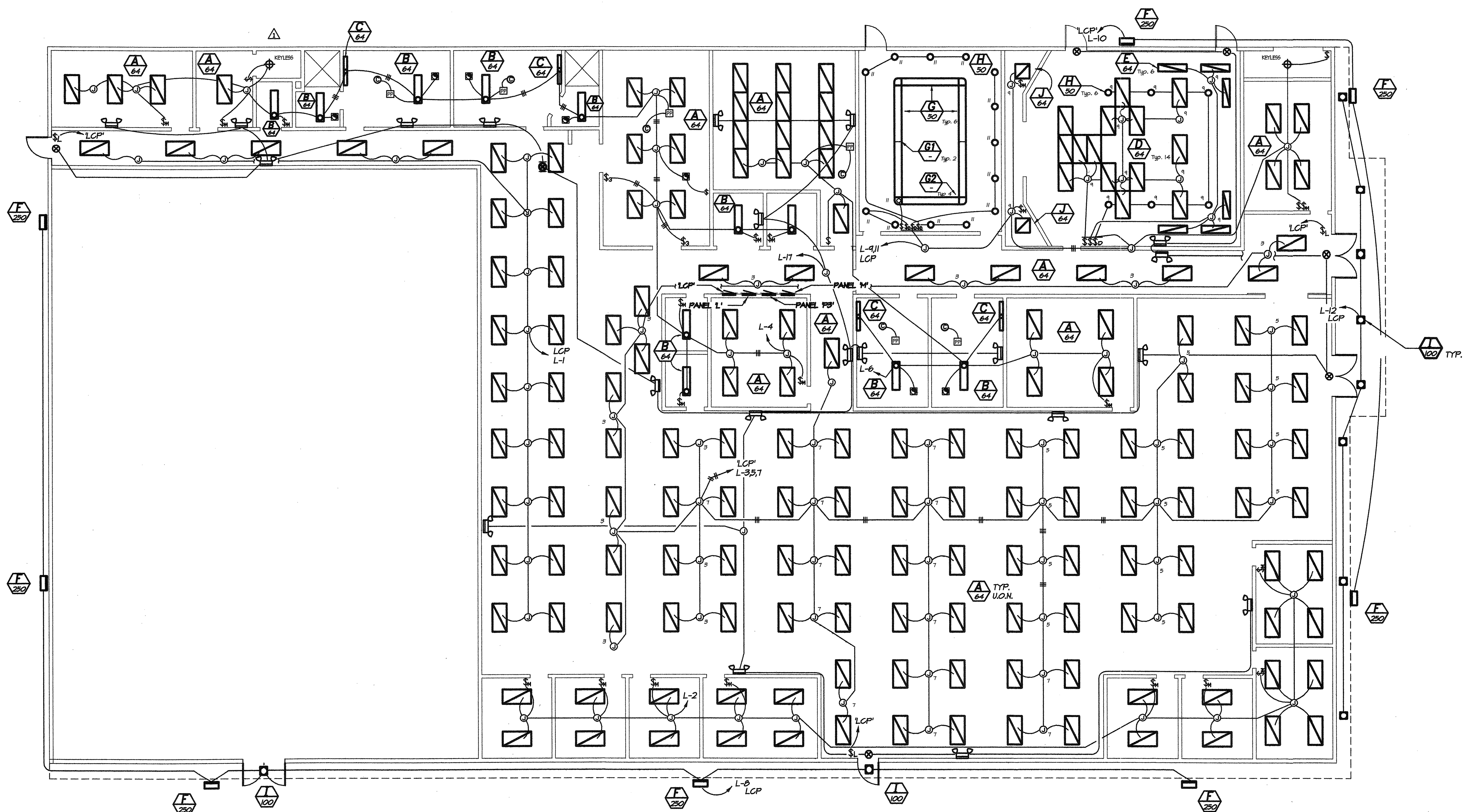
J. HARDIN

SCALE:

NONE

SHEET NO.

M-4



ELECTRICAL LIGHTING PLAN
SCALE: 1/8" = 1'-0"

- FIXTURE SCHEDULE -			
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER
A	2-F032/141	LITHONIA	#26TB 232 A12 UNV EBB1
B	2-F032/141	LITHONIA	#LB 232 UNV EBB1
C	2-F032/141	LITHONIA	#AC 232 UNV EBB1
D	2-F032/141	LITHONIA	#2PM3N 6 B 232 24 ND UNV EBB1
E	2-F032/141	LITHONIA	#PM3N 6 B 232 24 ND UNV EBB1
F	LU 250	LITHONIA	#TWR 2 250S TB LPI
G	4-F032/141	LEDALITE	#252 6 T02 5 N 0811 E W
G1	-	LEDALITE	#252 6 JNNNNW (In-line Joint)
G2	-	LEDALITE	#252 6 MLLWN ('L' Intersection)
H	50W 12V MR16	HALO	#H1499T/1421C
I	LU100/D/MED	LITHONIA	#LP6H 100S 120/603A
J	2-F032/141/ECO	LITHONIA	#26TB U316 UNV EBB1
K	LED	LITHONIA	#LGMS W 3 6 120/271 ELN
L	-	LITHONIA	#ELM2

- LEGEND**
- BY-PASS SWITCH WATT STOPPER #AS-110
 - AUTOMATIC WALL SWITCH - WATT STOPPER #WS-200
 - ULTRASONIC CEILING SENSOR - WATT STOPPER #C1-200
 - POWER PACK - WATT STOPPER #B120E-P
 - LOW VOLTAGE WIRE AS REQUIRED.
 - PHOTO CELL WATT STOPPER #EM-24A2

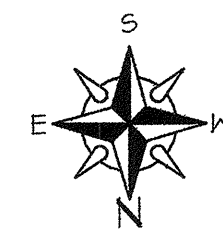
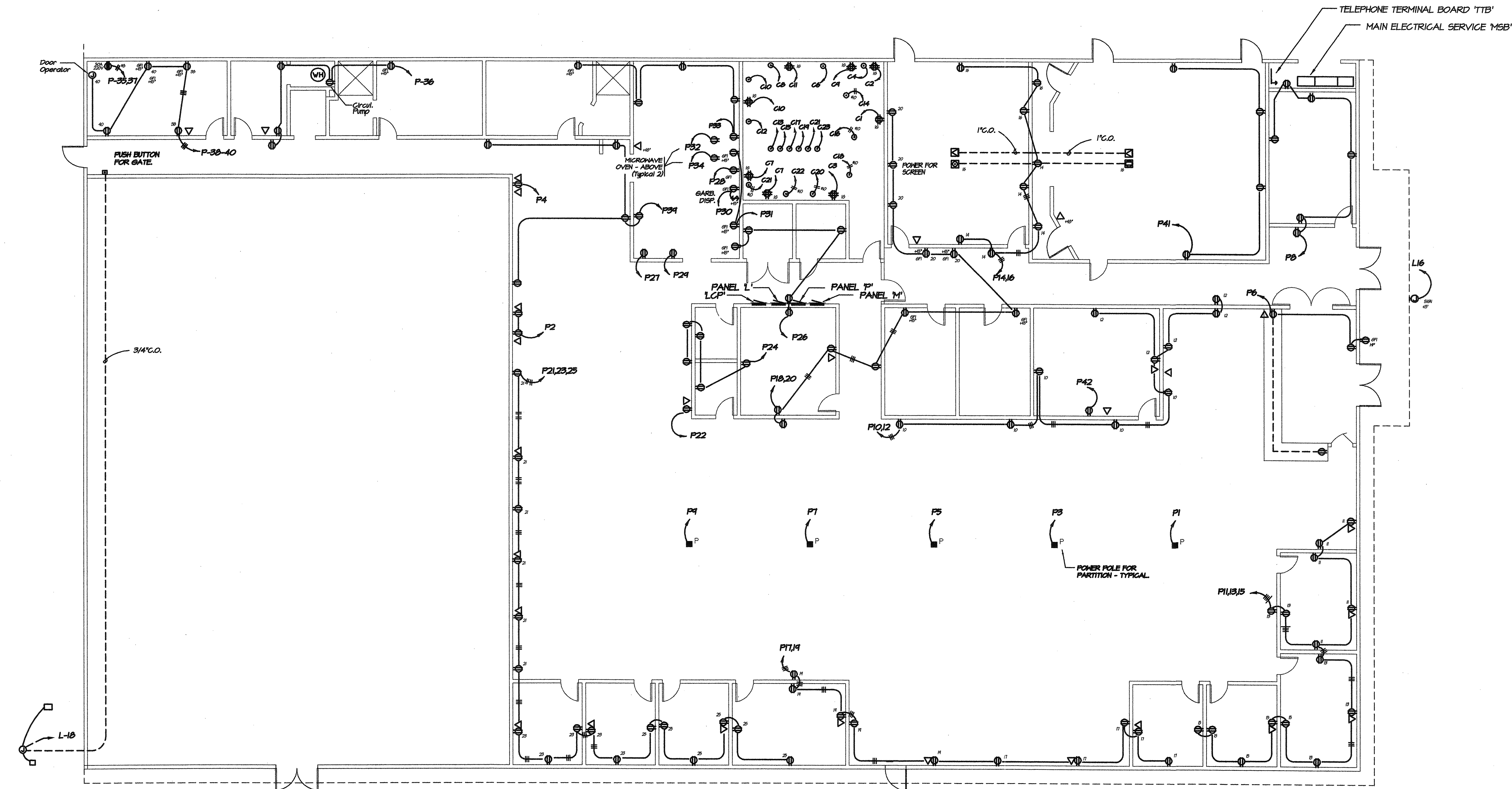
RECEIVED
DEC 13 2004
ACME CONSTRUCTION CO., INC.

DARRALE PATRIAS
ELECTRICAL CONTRACTOR INC.
2480 N. WALNUT / P.O. BOX 1832
TURLOCK, CA. 95381

Signed: _____
(209) 632-6196 Lic. No. 348403

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REVISIONS		BY
PLAN CHECK 12/09/04		KP
PROJECT NAME: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT		
DATE: 12/10/04		
JOB: 04-9826		
BY: KCP		
SHEET: E1		
PROJECT NAME: DARRALE PATRIAS Electrical Contractor, Inc.		
2480 N. WALNUT ROAD / P.O. BOX 1832 - TURLOCK, CALIFORNIA 95381		
Telephone (209) 632-6196		
Calif. Lic. #348403		
Robert Hart, Architect Architecture and Planning Creative Residences 2500 Colma Road San Jose, CA 95128 (408) 934-0000		



ELECTRICAL POWER PLAN

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

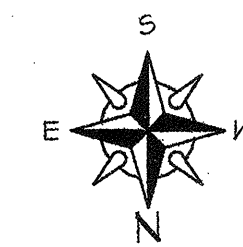
DARRALE PATRIAS
ELECTRICAL CONTRACTOR INC.

2480 N. WALNUT / P.O. BOX 1832
TURLOCK, CA 95381

Signed: _____
(209) 632-6196 Lic. No. 348403

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REVISIONS <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td>1</td> <td>PLAN CHECK 12/08/04</td> <td>KCP</td> </tr> </table>		NO.	DESCRIPTION	BY	1	PLAN CHECK 12/08/04	KCP
NO.	DESCRIPTION	BY					
1	PLAN CHECK 12/08/04	KCP					
PROJECT NAME: SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT							
DATE: 12/10/04							
JOB: 04-9826							
BY: KCP							
SHEET: E2							
Architect: Robert Hart, Architect Architecture and Planning Creative Residence 2505 Laureate Dr. Modesto, CA 95356 (209) 478-4333							
DARRALE PATRIAS Electrical Contractor, Inc. 2480 N. WALNUT ROAD / P.O. BOX 1832 - TURLOCK, CALIFORNIA 95381 Telephone (209) 632-6196 Calif. Lic. #348403							



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

DARRALE PATRIAS

Electrical Contractor, Inc.

2480 N. WALNUT ROAD / P.O. BOX 1832 - TURLOCK, CALIFORNIA 95381

Telephone (209) 632-6116

Calif. Lic. #346403

REVISIONS	BY
PLAN CHECK 12/08/04	K.P.

rh		Robert Hart, Architect Architecture and Planning Creative Residences	3505 Columbus Dr. Modesto, CA 95358 (209) 476-3388
----	--	--	---

PROJECT NAME: SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT
MODESTO, CALIFORNIA

PROJECT NAME:

DATE:	12/10/04
JOB:	04-9826
BY:	KCP
SHEET:	

E4

 **DARRALLE PATRIAS**
ELECTRICAL CONTRACTOR INC.
2480 N. WALNUT / P.O. BOX 1832
TURLOCK, CA. 95381

Signed: _____

(209) 632-6196 Lic. No. 346403

This Drawing is the Property of Darralle Patrias Electrical and is loaned subject to the condition that it is not to be used or reproduced except as sanctioned in writing by Darralle Patrias Electrical.

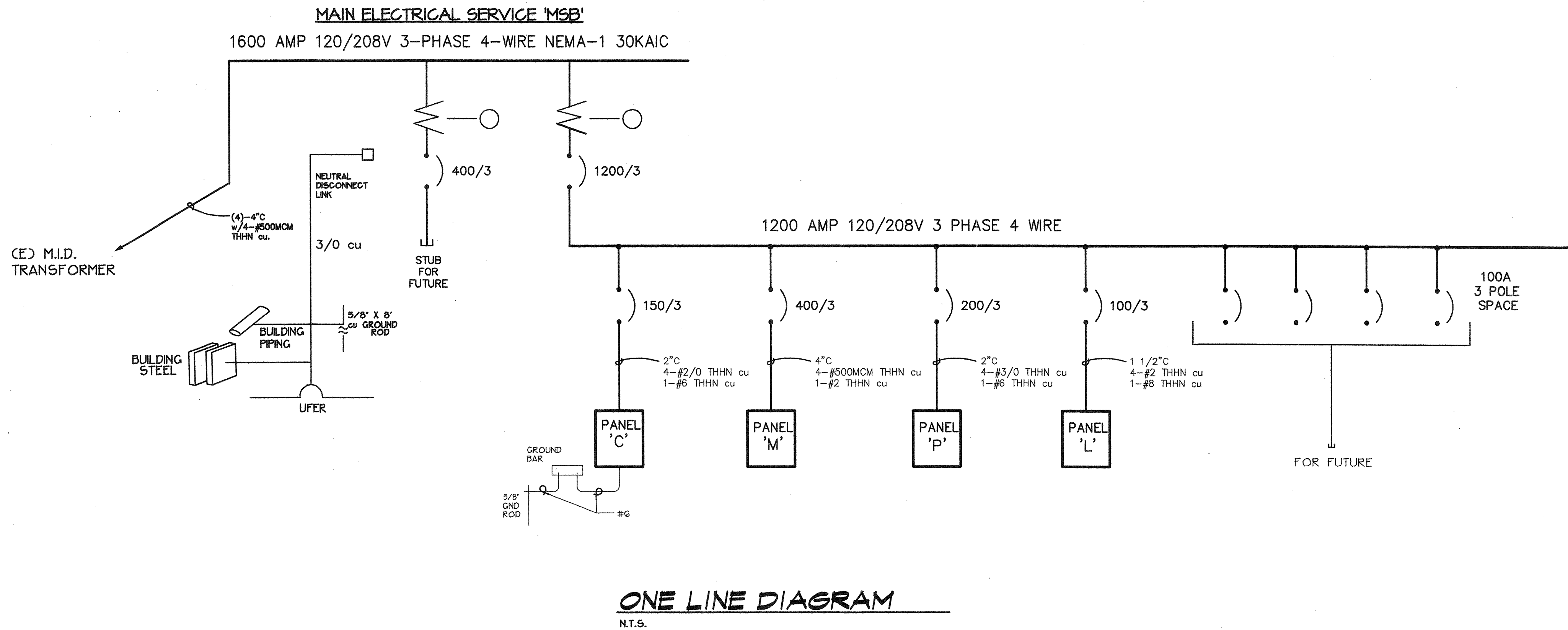
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MOUNTING FLUSH		AMPS: 200		MAIN LUG		VOLTS: 120/208		PHASE: 3		WIRE: 4									
BRKR	A	F	CIRC. WATTS	REC. LUG	CIRC. No.	PHASE	A	B	C	CIRC. No.	REC. LUG	CIRC. WATTS	BRKR	A	F	CIRC. WATTS	REC. LUG	CIRC. No.	PHASE
20	1		750	1	1	1500				2	1	750	20	1		750	1	1	1500
20	1		750	1	3	1500				4	1	750	20	1		750	1	3	1500
20	1		750	1	5	1470				6	4	720	20	1		750	1	5	1470
20	1		750	1	7	1250				8	6	1080	20	1		750	1	7	1250
20	1		750	1	9	1650				10	5	900	20	1		750	1	9	1650
20	1		400	5	11	1800				12	5	900	20	1		400	5	11	1800
20	1		400	5	13	1800				14	5	900	20	1		400	5	13	1800
20	1		400	5	15	1800				16	5	900	20	1		400	5	15	1800
20	1		400	5	17	1800				18	5	900	20	1		400	5	17	1800
20	1		400	5	19	1800				20	5	900	20	1		400	5	19	1800
20	1		400	5	21	2150				22	1	1250	20	1		400	5	21	2150
20	1		400	5	23	1800				24	5	900	20	1		400	5	23	1800
20	1		1080	6	25	1480				26	5	900	20	1		1080	6	25	1480
20	1		1250	1	27	2500				28	1	1250	20	1		1250	1	27	2500
20	1		1250	1	29	2250				30	1	1000	20	1		1250	1	29	2250
20	1		500	2	31	1750				32	1	1250	20	1		500	2	31	1750
20	1		400	5	33	2150				34	1	1250	20	1		400	5	33	2150
20	1		3640	1	35	4540				36	5	900	20	1		3640	1	35	4540
20	1		3640	1	37	4000				38	2	360	20	1		3640	1	37	4000
20	1		400	5	39	1440				40	3	540	20	1		400	5	39	1440
20	1		720	4	41	1250				42	1	1250	20	1		720	4	41	1250
PHASE TOTALS		15380		1340		1440		118.83		AMPS.									

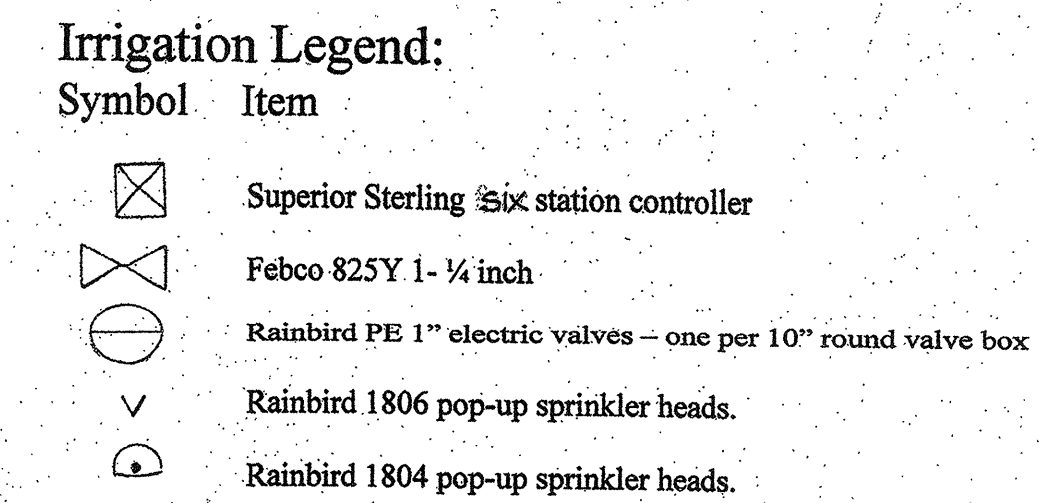
PANEL SCHEDULE "C"																			
MOUNTING FLUSH		AMPS: 200		MAIN LUG		VOLTS: 120/208		PHASE: 3		WIRE: 4									
BRKR	A	F	CIRC. WATTS	REC. LUG	CIRC. No.	PHASE	A	B	C	CIRC. No.	REC. LUG	CIRC. WATTS	BRKR	A	F	CIRC. WATTS	REC. LUG	CIRC. No.	PHASE
20	1		500	1	1	1500				2	1	1000	30	1		500	1	1	1500
20	1		500	1	3	1500				4	1	1000	30	1		500	1	3	1500
20	1		500	1	5	1500				6	1	1000	30	1		500	1	5	1500
20	1		500	1	7	1500				8	1	1000	30	1		500	1	7	1500
20	1		500	1	9	1500				10	1	1000	30	1		500	1	9	1500
20	1		500	1	11	1500				12	1	1000	30	1		500	1	11	1500
30	1		1000	1	13	2000				14	1	1000	30	1		1000	1	13	2000
30	1		1000	1	15	2000				16	1	1000	30	1		1000	1	15	2000
30	1		1000	1	17	2000				18	1	1000	30	1		1000	1	17	2000
30	1		1000	1	19	2000				20	1	1000	30	1		1000	1	19	2000
30	1		1000	1	21	2000				22	1	1000	30	1		1000	1	21	2000
30	1		1000	1	23	2000				24	1	1000	30	1		1000	1	23	2000
PHASE TOTALS		5000		3000		5000		41.69		AMPS.									

PANEL SCHEDULE "M"																			
MOUNTING FLUSH		AMPS: 400		MAIN LUG		VOLTS: 120/208		PHASE: 3		WIRE: 4									
BRKR	A	F	CIRC. WATTS	REC. LUG	CIRC. No.	PHASE	A	B	C	CIRC. No.	REC. LUG	CIRC. WATTS	BRKR	A	F	CIRC. WATTS	REC. LUG	CIRC. No.	PHASE
30	1		3086	1	1	6784				2		2403	40	1		3086	1	1	6784
30	1		3086	1	3	6784				4		2403	40	1		3086	1	3	6784
30	1		3086	1	5	6784				6		2403	40	1		3086	1	5	6784
30	1		4910	1	7	8085				8		3275	40	1		4910	1	7	8085
30	1		4910	1	9	8085				10		3275	40	1		4910	1	9	8085
30	1		4910	1	11	8085				12		3275	40	1		4910	1	11	8085
30	1		3275	1	13	5348				14		2123	40	1		3275	1	13	5348
30	1		3275	1	15	5348				16		2123	40	1		3275	1	15	5348
30	1		3275	1	17	5348				18		2123	40	1		3275	1	17	5348
30	1		3275	1	19	6550				20		3275	40	1		3275	1	19	6550
30	1		3275	1	21	6550				22		3275	40	1		3275	1	21	6550
30	1		3275	1	23	6550				24		3275	40	1		3275	1	23	6550
30	1		2123	1	25	2349				26		1276	40	1		2123	1	25	2349
30	1		2123	1	27	2873				28		62	40	1		2123	1	27	2873
30	1		2123	1	29	4246				30		2123	40	1		2123	1	29	4246
30	1		2123	1	31	2123				32		2123	40	1		2123	1	31	2123
30	1		2123	1	33	2123				34		2123	40	1		2123	1	33	2123
30	1		2123	1	35	2123				36		2123	40	1		2123	1	35	2123
30	1		2123	1	37	2123				38		2123	40	1		2123	1	37	2123
30	1		2123	1	39	2123				40		2123	40	1		2123	1	39	2123
30	1		2123	1	41	2123				42		2123	40	1		2123	1	41	2123
PHASE TOTALS		3544		3108		3108		261.87		AMPS.									

PANEL SCHEDULE "L"																			
MOUNTING FLUSH		AMPS: 100		MAIN LUG		VOLTS: 120/208		PHASE: 3		WIRE: 4									
BRKR	A	F	CIRC. WATTS	REC. LUG	CIRC. No.	PHASE	A	B	C	CIRC. No.	REC. LUG	CIRC. WATTS	BRKR	A	F	CIRC. WATTS	REC. LUG	CIRC. No.	PHASE
20	1		1600	25	1	3008				2	22	1408	20	1		1600	25	1	3008
20	1		1600	25	3	3450				4	25	1850	20	1		1600	25	3	3450
20	1		1856	24	5	3340				6	21	1444	20	1		1856	24	5	3340
20	1		1420	30	7	3370				8	7	1450	20	1		1420	30	7	3370
20	1		1674	24	9	2474				10	5	800	20	1		1674	24	9	2474
20	1		1680	28	11	2480				12	8	800	20	1		1680	28	11	2480
20	1				13	750				14	1	750	20	1				13	750
20	1				15	750				16	1	750	20	1				15	750
20	1				17	1400				18	1	1000	20	1				17	1400
20	1				19	300				20	1	300	20	1				19	300
20	1				21					22			20	1				21	
20	1				23					24			20	1				23	
PHASE TOTALS		1428		6675		7680		61.0		AMPS.									

* LOCK-ON-DEVICE





- ## Notes:
1. All mainline will be 1- ¼ inch schedule 40 with 18" minimum cover under all asphalt.
 2. Febco 825Y backflow device shall be installed in the planter areas not in the lawn.
 3. All lateral irrigation lines will be a minimum of class 200.
 4. All heads will be mounted on double swing joint assemblies.
 5. Clock will be mounted at location to be specified by the owner.
 6. All irrigation control wires will be 14 gauge direct burial with two extra wires from the clock to the valve locations.
 7. All valves will be located in planter areas with one valve per 10" round valve box.
 8. Any piping or wiring under paving or concrete will be sleeved with 3" rigid 2500 lb. crush drain line.

Plant Legend		
Symbol	Size	Plant Variety
P	15-gal.	Pistacia chinensis - Chinese Pistache
C	15-gal.	Lagerstroemia indica - Crape Myrtle Tree
M	5-gal.	Pittosporum tobira Wheeleri - Dwarf Mock Orange
N	5-gal.	Nandina domestica Compacta - Compact Heavenly Bamboo
Pr	5-gal.	Ligustrum texanum Swanee River - Swanee River Privet
F	1-gal.	Morea irridioles Bi-color - Fortnight Lily

- Notes:**
1. Planting holes will be equal in depth to the root ball of the plant and 1 ½ times the diameter.
 2. All plant material will have agriform fertilizer planting tablets at the following rates:
 - A. 1 per one gallon shrub
 - B. 2 per five gallon shrub
 - C. 3 per fifteen gallon tree
 3. All trees will be staked with two 8" lodgepole stakes per tree.
 4. All planter areas will have Ronstar pre-emergent weed control applied at the manufacturers recommended rates and 2" of premium walk-on-bark for top dressing.

