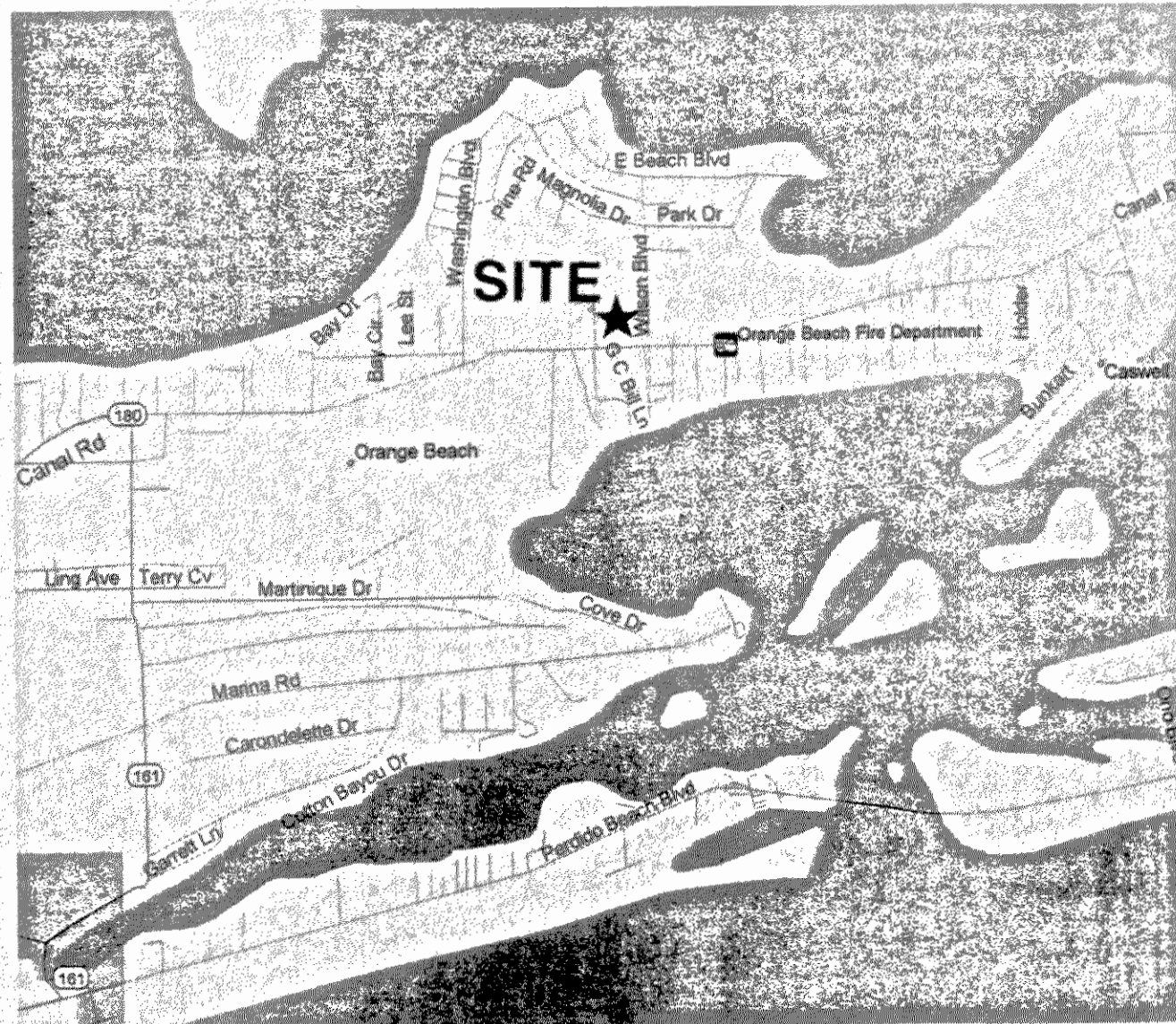


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GOODWYN, MILLS & CAWOOD, INC.  
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BORDEN & MORRIS CONSULTING ENGINEERS, INC.

ARCHITECTS, CIVIL ENGINEERS, AND LANDSCAPE ARCHITECTS  
  
STRUCTURAL ENGINEER  
  
PLUMBING, MECHANICAL, & ELECTRICAL ENGINEERS

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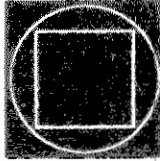
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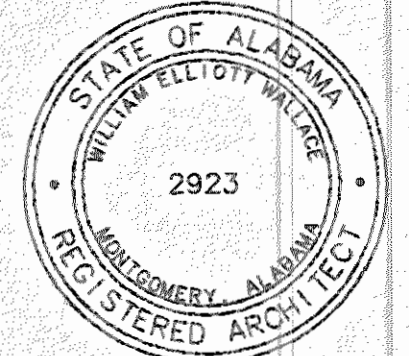
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## GENERAL

ALL DESIGN, CONSTRUCTION, AND INSPECTION SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE STANDARD BUILDING CODE (1999).

ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND/OR STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.

TEMPORARY SHORING AND BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETE.

DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND/OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOADS.

THE GENERAL CONTRACTOR SHALL HAVE SHOP DRAWINGS REVIEWED BY THE ARCHITECT PRIOR TO THE FABRICATION OR ERECTION FOR THE FOLLOWING ITEMS: REINFORCING STEEL, STRUCTURAL STEEL AND PREFABRICATED WOOD TRUSSES.

ALL DETAILS, SECTIONS, AND NOTES ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS UNLESS NOTED OR SHOWN OTHERWISE.

REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION NOT COVERED ON THE DRAWINGS.

SIZES, LOCATIONS, AND ANCHORAGES OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS (SUPPLIERS) PRIOR TO PLACING CONCRETE OR FABRICATING STEEL.

## FOOTINGS

ALL FOOTINGS SHALL BEAR 12" MINIMUM INTO ORIGINAL UNDISTURBED EARTH OR ON ENGINEERED FILL COMPACTED TO 98% OF MAXIMUM RELATIVE DENSITY BASED ON ASTM D-698. SUCH FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 6" IN DEPTH AFTER COMPACTION SHALL EXTEND DOWN TO IN-SITU GRANULAR SOILS. PREPARE SITE AND EXCAVATION AS PER GEOTECHNICAL REPORT, INCLUDING UNDERCUTTING & PLACEMENT OF SELECT FILL.

FOOTING ELEVATIONS SHOWN ON PLAN ARE TOP OF FOOTINGS AND ARE MINIMUM DEPTH. DIFFERENT OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ARCHITECT AND/OR ENGINEER.

EXTERIOR WALL FOOTINGS SHALL BEAR AT A MINIMUM DEPTH OF 2'-0" BELOW FINISHED EXTERIOR GRADE.

NO FOOTINGS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.

ANY SOIL CONDITION ENCOUNTERED DURING EXCAVATION THAT IS CONTRARY TO THE CONDITIONS USED FOR DESIGN OF FOOTINGS AS OUTLINED IN THE STRUCTURAL NOTES AND IN THE GEOTECHNICAL REPORT BY POPE ENGINEERING & TESTING LAB, INC. DATED MAY 22,2000) SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING.

IN FOOTINGS, UNLESS OTHERWISE SHOWN, PROVIDE CORNER BARS AT ALL EXTERIOR BUILDING CORNERS 10'-0" X 10'-0" IN TOP SAME AS HORIZONTAL REINFORCEMENT.

BACK FILL BOTH SIDES OF FOUNDATION WALLS AT SAME TIME TO PREVENT OVERTURNING.

WALL FOOTINGS, WHERE NOT SHOWN OTHERWISE, SHALL BE 12" THICK WITH A 8" SPREAD EACH SIDE OF WALL AND PROVIDE 1 #5 CONTINUOUS AT BOTTOM FOR EACH 8" OF FOOTING WIDTH.

WHERE 4" DIAMETER OR LARGER PIPE PASSES THROUGH AN INTERIOR OR EXTERIOR FOUNDATION WALL, STEP THE FOOTING DOWN TO PASS BELOW PIPE AND THEN STEP BACK UP TO INDICATED ELEVATION. PROVIDE PIPE SLEEVE THROUGH FOUNDATION WALL.

ALL FOOTING EXCAVATIONS SHALL BE EXAMINED BY A GEOTECHNICAL ENGINEER FOR VERIFICATION OF ADEQUATE BEARING CONDITIONS BEFORE PLACING CONCRETE.

## CONCRETE

CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:  
FOOTINGS & SLABS.....3000 PSI  
CONCRETE FOR BLOCK FILL.....2000 PSI

A STATEMENT OF MIX DESIGN FOR ALL CONCRETE SHALL BE SUBMITTED TO AND REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK. CONCRETE MIX SHALL HAVE A MINIMUM OF 5% AIR ENTRAINMENT, U.N.O.

ALL CONCRETE WORK SHALL BE PLACED, CURED, STRIPPED, AND PROTECTED AS DIRECTED BY THE SPECIFICATIONS AND ACI STANDARDS AND PRACTICES.

DOWEL VERTICAL BARS 36 DIAMETERS INTO STRUCTURE ABOVE AND FOOTINGS BELOW. PROVIDE 90 DEG. HOOK WHERE 36 DIAMETER IS NOT POSSIBLE.

BEFORE CONCRETE IS POURED CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC. RELATIVE TO WORK.

ALL SLABS ON GRADE SHALL BE PLACED IN ALTERNATE STRIPS WITH A MAXIMUM WIDTH OF 18" BETWEEN CONTROL OR CONSTRUCTION JOINTS; REFER TO TYPICAL DETAILS ON DRAWINGS. UNLESS OTHERWISE NOTED, SLABS ON GRADE SHALL BE 4" THICK AND SHALL BE REINFORCED WITH 6 x 6 - W1.4 x W1.4 WELDED WIRE FABRIC. PLACE FLOOR SLAB OVER VAPOR BARRIER AND OVER 4 INCH THICK POROUS FILL, U.N.O.

PROVIDE A #3 NOSING BAR IN ALL STAIR TREADS.

WHERE EXTERIOR SLABS ON GRADE ABUT WALLS OR COLUMNS PROVIDE 3/8" PREFORMED EXPANSION JOINT FILLER WITH SEALANT.

WHERE INTERIOR MASONRY WALLS DO NOT BEAR ON A FOOTING PROVIDE A TYPICAL THICKENED SLAB (12" THICK X 16" WIDE) UNDER WALL. REINFORCE WITH 2- #4 CONTINUOUS. DOWEL WALL REINFORCING TO SLAB.

## MASONRY (CMU)

ALL MASONRY SHALL BE REINFORCED WITH BOTH HORIZONTAL AND VERTICAL REINFORCEMENT. ALL BLOCK CELLS OR BRICK CAVITIES WITH REINFORCEMENT SHALL BE GROUTED FULL USING CONCRETE 2000 PSI GROUT. CELLS SHALL BE ALIGNED TO PRESERVE UNOBSTRUCTED VERTICAL CAVITIES OF 2" x 3" MINIMUM. MASONRY SHALL BE PLACED IN RUNNING BOND PATTERN, UNLESS NOTED OTHERWISE.

CONCRETE FOR BLOCK FILL SHALL HAVE 3/8 INCH MAXIMUM SIZE COURSE AGGREGATE AND SUFFICIENT WATER SO THE CONCRETE WILL FLOW INTO THE BLOCK CELLS WITHOUT LEAVING VOIDS; MORTAR SHALL NOT BE USED FOR BLOCK FILL.

WHERE BEAMS BEAR ON CONCRETE BLOCK WALLS BLOCK CELLS SHALL BE FILLED WITH CONCRETE 1" - 4" WIDE TO FOUNDATION AND REINFORCE WITH A #5 EACH CELL, UNLESS OTHERWISE SHOWN.

AN ADDITIONAL VERTICAL BAR (MATCHING WALL REINFORCEMENT) SHALL BE PLACED AT EACH CORNER, END OF WALL, AND JAMB OF ALL OPENINGS.

HORIZONTAL BARS SHALL BE PLACED IN BOND BEAMS FILLED WITH GROUT AT THE TOP OF ALL WALLS AND AT 96" O.C. MAXIMUM BETWEEN TOP OF WALL AND FOUNDATION. COORDINATE AND PLACE CONTINUOUS BOND BEAM @ DOOR AND WINDOW HEAD, WHERE POSSIBLE. SEE ARCH. WHERE SPECIAL 16" DEEP LINTEL BLOCK OCCURS. BOND BEAM UNITS AND REINFORCING SHALL CONTINUE UNINTERRUPTED AROUND ALL CORNERS AND WALL INTERSECTIONS.

ALL VERTICAL REINFORCING BARS SHALL BE DOWELED TO STRUCTURE BELOW WITH BARS OF SAME SIZE AND SPACING. LAP ALL SPLICES IN MASONRY 48 BAR DIAMETERS. PLACE ALL BARS SECURELY PRIOR TO GROUTING.

MASONRY REINFORCEMENT: THE MINIMUM REINFORCEMENT FOR ALL MASONRY WALLS SHALL BE AS FOLLOWS:

8 IN. WALLS: #5 @ 48 IN. O.C. IN VERTICAL GROUTED CELLS  
& 2-#5 @ 96 IN. O.C. IN BLOCK UNIT  
HORIZONTALLY GROUTED.

IN ADDITION LADDER-TYPE REINFORCING CONSISTING OF #9 WIRE FOR EACH FACE SHELL OF EACH WYTHE SHALL BE USED AT 16 IN. O.C. HORIZONTALLY IN ALL MASONRY WALLS. REINFORCEMENT SHALL BE FOR TOTAL WIDTH OF CAVITY WALLS.

CONCRETE MASONRY UNITS SHALL BE GRADE N UNITS CONFORMING TO A.S.T.M. DESIGNATION C90 AND SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 1900 PSI ON THE NET SECTION.

MORTAR SHALL BE TYPE "S".

NO MASONRY SHALL BE LAID WHEN THE TEMPERATURE OF THE OUTSIDE AIR IS BELOW 40 DEG. F., UNLESS APPROVED METHODS ARE USED DURING CONSTRUCTION TO PREVENT DAMAGE TO THE MASONRY. SUCH METHODS SHALL INCLUDE PROTECTION OF THE MASONRY FOR A PERIOD OF AT LEAST 48 HOURS.

ALL REINFORCING SHALL BE IN PLACE PRIOR TO GROUTING. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION AT THE TOP, BOTTOM AND AT INTERVALS NOT FARTHER APART THAN 200 BAR DIAMETERS. PROVIDE WIRE TIES AT ALL LAP SPLICES.

UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR IN THE SPECIFICATIONS, MASONRY GROUTING SHALL COMPLY WITH THE PROVISIONS OF ACI 530.

PROVIDE FULL HEIGHT HARD RUBBER KEY AT MASONRY CONTROL JOINTS. WHERE MASONRY CONTROL JOINT LOCATIONS ARE NOT SHOWN ON THE DRAWINGS THE CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS TO ARCHITECT/ENGINEER FOR REVIEW.

## REINFORCING STEEL

ALL REINFORCEMENT SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI DETAILING MANUAL 315-92 AND ACI STANDARD 318-95.

REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. LAP ONE MESH TIE.

ALL REINFORCEMENT SHALL BE SECURELY TIED AND HELD IN PLACE.

REINFORCING BARS THAT ARE TO BE WELDED, INCLUDING DEFORMED BAR ANCHORS (D.B.A.) SHALL BE OF A WELDABLE GRADE AND SHALL BE WELDED IN ACCORDANCE WITH THE A.W.S. RECOMMENDATIONS.

ALL CONTINUOUS REINFORCEMENT SHALL TERMINATE WITH A 90 DEG. TURN OR A SEPARATE CORNER BAR. ALL SPLICES SHALL LAP A MINIMUM OF 36 BAR DIAMETERS. (12" MINIMUM) IN CONCRETE, AND 48 DIAMETERS IN MASONRY.

WHERE THE LENGTH OF A BAR IS GIVEN AND IT IS TO BE HOOKED, THE HOOK SHALL BE IN ADDITION TO THE LENGTH GIVEN, UNLESS SHOWN OTHERWISE.

COVER TO MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL BE AS FOLLOWS UNLESS SHOWN OTHERWISE:

- UNFORMED SURFACES IN CONTACT WITH GROUND OR EXPOSED TO THE WEATHER (BOTTOM OF FOOTINGS)..... 3 INCHES
- SLABS ON GRADE..... 2 INCHES
- FORMED SURFACES IN CONTACT WITH THE GROUND OR EXPOSED TO THE WEATHER (GRADE BMS, WALLS, ETC.)... 2 INCHES
- STRUCTURAL SLABS AND JOISTS NOT EXPOSED TO WEATHER OR EARTH..... 1 INCH
- IN ALL CASES MINIMUM COVER SHALL NOT BE LESS THAN THE DIAMETER OF ADJACENT BARS.

PRIOR TO FABRICATION AND PLACEMENT, SHOP DRAWINGS FOR ALL REINFORCING STEEL SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

## STRUCTURAL STEEL

ALL STRUCTURAL STEEL AND STRUCTURAL STEEL WORK SHALL COMPLY WITH BOTH THE AISC "MANUAL OF STEEL CONSTRUCTION" CONTAINING THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS, INCLUDING THE "CODE OF STANDARD PRACTICES" (LATEST EDITION), AND WITH THE STANDARD BUILDING CODE.

STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B; YIELD STRESS = 46 KSI.

ALL OTHER STRUCTURAL STEEL SHALL BE ASTM A36, UNO.

PRIOR TO FABRICATION AND ERECTION SHOP DRAWINGS FOR ALL STEEL ITEMS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY ALL SHOP DRAWING DIMENSIONS WITH STRUCTURAL AND ARCHITECTURAL PLANS AND DETAILS.

## WOOD FRAMING

REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILS, ADDITIONAL NOTES AND SCHEDULES PERTAINING TO PLYWOOD ROOF, FLOOR, AND SHEAR WALL DIAPHRAGMS.

STRUCTURAL FRAMING LUMBER SHALL BE CLEARLY MARKED AND MEET THE FOLLOWING MINIMUM GRADES AS DEFINED BY THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION:

- 2" TO 4" THICK  
5" AND WIDER: SOUTHERN YELLOW PINE(SYP), GRADE NO.2
- BEARING WALL STUDS: PINE  
UP TO 8' LENGTH: STUD GRADE OR BETTER  
OVER 8' LENGTH: SYP, NO. 2 OR BETTER

ALL NAILS SPECIFIED ON DETAILS OR SCHEDULED SHALL BE COMMON NAILS UNLESS NOTED OTHERWISE.

HOLES FOR NAILS, WHERE NECESSARY TO PREVENT SPLITTING, SHALL BE BORED OF A DIAMETER SMALLER THAN THAT OF THE NAILS.

ALL TRUSS AND BEAM HANGERS, FRAMING ANCHORS, STRAP TIES, AND OTHER METAL FASTENERS FOR WOOD FRAMING SHALL BE GALVANIZED AND SHALL BE SIMPSON BRAND (OR EQUIV.).

UNLESS NOTED OTHERWISE, FOLLOW THE NAILING REQUIREMENTS OF 1999 SBC, INCLUDING TABLE NO. 2306.1 FASTENING SCHEDULE.

UNLESS NOTED OTHERWISE, ANCHOR ALL TRUSSES, RAFTERS AND JOISTS TO SUPPORTS WITH GALVANIZED FRAMING ANCHORS.

UNLESS NOTED OTHERWISE, PROVIDE 2 X CONTINUOUS BLOCKING BETWEEN MAIN MEMBERS AT ALL RIDGES, HIPS AND VALLEYS.

## MANUFACTURED TIMBER PRODUCTS

LAMINATED VENEER LUMBER (LVL)  
UNLESS NOTED OTHERWISE, LVL BEAMS SHALL HAVE THE FOLLOWING PROPERTIES:

MIN. ALLOWABLE BENDING STRESS.....Fb = 2600 PSI X (12/d)<sup>0.136</sup>  
MIN. ALLOWABLE SHEAR STRESS.....Fv = 285 PSI  
MODULUS OF ELASTICITY.....E = 1,900,000 PSI

## LAMINATED STRAND LUMBER (LSL)

UNLESS NOTES OTHERWISE, LSL MEMBERS SHALL HAVE THE FOLLOWING PROPERTIES:

MIN. ALLOWABLE BENDING STRESS.....Fb= 2250 PSI X (12/D)<sup>0.092</sup>  
MIN. ALLOWABLE SHEAR STRESS.....Fv= 285 PSI  
MODULUS OF ELASTICITY.....E= 1,500,000 PSI  
COMPRESSION PARALLEL TO GRAIN.....Fc= 1950 PSI  
COMPRESSION PERPENDICULAR TO GRAIN PARALLEL TO WIDE FACE OF STRANDS.....Fc = 650 PSI

## PLYWOOD DIAPHRAGMS

### ROOF SHEATHING:

TYPE: 5/8" APA RATED EXPOSURE 1 (40/20)

NAILING: 8d COMMON NAILS @ 8" O.C. TO ALL PLYWOOD PANEL EDGES, BEAMS, BLOCKING, DRAG STRUTS AND DIAPHRAGM BOUNDARIES. 8d @ 12" O.C. TO ALL INTERMEDIATE SUPPORTS.

LAYOUT: FACE GRAIN PERPENDICULAR TO SUPPORTS.

### FLOOR SHEATHING:

TYPE: 3/4" APA-RATED EXPOSURE 1 TONGUE AND GROOVE SHEATHING (48/24).

NAILING: GLUE AND NAIL WITH 8d GALVANIZED COMMON NAILS @ 8" O.C. ALL SUPPORTED PLYWOOD PANEL EDGES.

USE 8d COMMON NAILS @ 10" O.C. AND GLUE TO ALL INTERMEDIATE SUPPORTS.

LAYOUT: FACE GRAIN PERPENDICULAR TO SUPPORTS.

SUBSTITUTION OF FASTENERS OTHER THAN THOSE SPECIFIED IN THE STRUCTURAL NOTES IS NOT ALLOWED.

NAILS SHALL BE PLACED NOT LESS THAN 3/8" FROM THE EDGE OF PLYWOOD PANELS. STAGGER NAILS EACH SIDE OF PANEL EDGE.

AT ROOF AND FLOOR DIAPHRAGMS, APPLY NAILS AT PANEL EDGE SPACING TO ALL DRAG STRUTS, TENSION CHORDS, BLOCKING OVER BEARING AND SHEAR WALLS, AND ANY OTHER SPECIAL DIAPHRAGM MEMBERS NOTED ON PLANS.

## METAL PLATED ROOF TRUSS NOTES

IT SHALL BE THE TRUSS FABRICATORS' RESPONSIBILITY TO DETERMINE THE SIZE AND GRADE LUMBER REQUIRED FOR EACH TRUSS MEMBER. WHERE MEMBER SIZE IS INDICATED ON THE DRAWINGS THE FABRICATOR SHALL DETERMINE THE REQUIRED GRADE LUMBER. GRADES & SIZES INDICATED ON DRAWINGS ARE MINIMUMS ONLY. INTERNAL TRUSS CONFIGURATION MAY BE CHANGED TO CONFORM TO MANUFACTURER'S STANDARD PRACTICE IF APPROVED BY THE ARCHITECT/ENGINEER.

PRIOR TO FABRICATION, THE TRUSS FABRICATOR SHALL PROVIDE DESIGN CALCULATIONS FOR EACH TRUSS TO THE STRUCTURAL ENGINEER FOR REVIEW. CALCULATIONS SHALL INCLUDE, MEMBER LOADS, FORCES AND CRITICAL STRESSES, AND MID-SPAN DEFLECTIONS. CALCULATIONS AND DRAWINGS SHALL ALSO INDICATE TYPE AND LOCATION OF BRACING REQUIRED BOTH DURING CONSTRUCTION AND PERMANENTLY. CALCULATIONS SHALL BEAR THE STAMP OF A LICENSED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED.

PRIOR TO FABRICATION, SHOP DRAWINGS FOR ALL ROOF TRUSSES SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER.

MOMENT COEFFICIENTS USED IN THE TRUSS DESIGN SHALL BE 1/8 FOR ONE AND TWO SPAN CONDITIONS AND 1/10 FOR THREE OR MORE SPANS. THE EFFECTIVE LENGTH FACTOR USED FOR WEBS SHALL BE 1.0.

TOOTHED METAL PLATES AT CONNECTOR JOINTS SHALL BE DESIGNED FOR THE FULL-MEMBER DESIGN LOADS WITHOUT CONSIDERING WOOD TO WOOD BEARING. THE CONNECTORS SHALL BE BALANCED ON THE JOINT AS STRESSES REQUIRE AND DIMENSIONED AS TO THEIR LOCATION. ONLY ONE CONNECTION PER JOINT PER SIDE WILL BE ALLOWED. CONNECTORS SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE TRUSS PLATE INSTITUTE.

MINIMUM SIZE OF ANY CONNECTOR SHALL BE 10 SQ. IN.

MINIMUM BITE OF ANY GUSSET PLATE ON A TRUSSED MEMBER SHALL BE 2-1/2".

SPLICES IN TOP AND BOTTOM CHORDS SHALL OCCUR AT A JOINT OR WITHIN ONE-QUARTER OF THE SPAN OF A PANEL OF THE TRUSS. EACH SECTION OF THE CHORD MEMBER SHALL BE INVOLVED IN TWO JOINTS PRIOR TO BEING SPLICED.

THE FOLLOWING DESIGN CRITERIA SHALL BE USED:  
TOP CHORD LIVE LOAD = 16.0 PSF  
TOP CHORD DEAD LOAD = 10.0 PSF  
BOTT CHORD DEAD LOAD = 7.0 PSF  
BOTT CHORD LIVE LOAD =(10.0) PSF WITHOUT TOP CHORD LIVE LOAD  
100 MPH WIND AS PER THE STANDARD BLDG. CODE, INCLUDING ALL UPLIFT CONDITIONS.

ALL BRACING OF TRUSS MEMBERS, REQUIRED BY THE MANUFACTURER'S DESIGN, SHALL BE PROVIDED AND INSTALLED AT THE INDICATED LOCATIONS BY THE CONTRACTOR. THIS BRACING SHALL BE IN ADDITION TO ANY BRACING SHOWN OR NOTED ON THE DRAWINGS.

ALL CONTINUOUS LATERAL BRACING SHALL BE Laterally SUPPORTED AT EACH END BY ANCHORING BRACING MEMBER TO END WALLS OR BY PROVIDING A DIAGONAL BRACE AT EACH END OF BRACING MEMBER AND AT 20 FT. INTERVALS.

PROVIDE A 2 x 4 CONTINUOUS LATERAL BRACE ALONG THE BOTTOM CHORD OF ALL TRUSSES. SPACE BRACES A MAXIMUM OF 12'-0" O.C.

PROVIDE CAMBER ON ALL TRUSSES.

UNLESS NOTED OTHERWISE, ATTACH TRUSS TO ALL POINTS OF BEARING WITH ONE SIMPSON A35 AND ONE H3 (GALVANIZED) FRAMING ANCHORS OR EQUIVALENT.

WHERE PREFABRICATED TRUSSES, HIPS OR JACKS FRAME INTO A PREFABRICATED GIRDER TRUSS THE SUPPORTING CONNECTION SHALL BE DESIGNED AND SPECIFIED BY THE TRUSS MANUFACTURER. THE SPECIFIED HANGERS AND FRAMING ANCHORS SHALL BE PROVIDED BY THE CONTRACTOR.

UNLESS NOTED OTHERWISE, PROVIDE SOLID 2 X BLOCKING OR PREFABRICATED TRUSS BLOCKING BETWEEN TRUSSES AT ALL END BEARING CONDITIONS AND OVER ALL SHEAR WALLS.

SEE TRUSS DIAGRAMS AND DIAGRAM NOTES FOR ADDITIONAL INFORMATION.

STRUCTURAL DESIGN LOADS

SEISMIC: ZONE 0  
WIND: BASIC WIND SPEED = 100 MPH AS PER SBC  
SOILS: NET ALLOWABLE SOIL PRESSURE = 1500 PSF, ASSUMED.  
ROOF: DL = 19 PSF LL = 16 PSF  
MECHANICAL PLATFORM: DL = 12 PSF LL = 80 PSF

## SPECIAL INSPECTIONS

SPECIAL INSPECTION SHALL BE PROVIDED BY THE OWNER FOR THE FOLLOWING TYPES OF WORK:

CONCRETE PLACEMENT: DURING THE TAKING OF TEST SPECIMENS AND PLACING OF REINFORCED CONCRETE.

STRUCTURAL MASONRY: AT THE START OF LAYING UNITS, AFTER THE PLACEMENT OF REINFORCING STEEL, GROUT SPACE PRIOR TO EACH GROUTING OPERATION, AND DURING ALL GROUTING OPERATIONS.

SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING TESTING AND INSPECTIONS.

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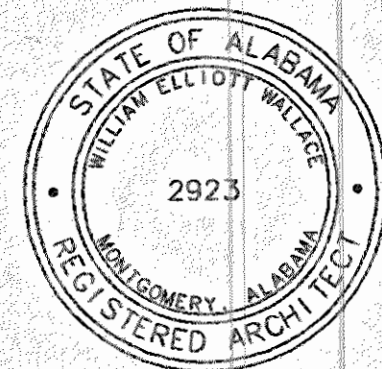
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A  
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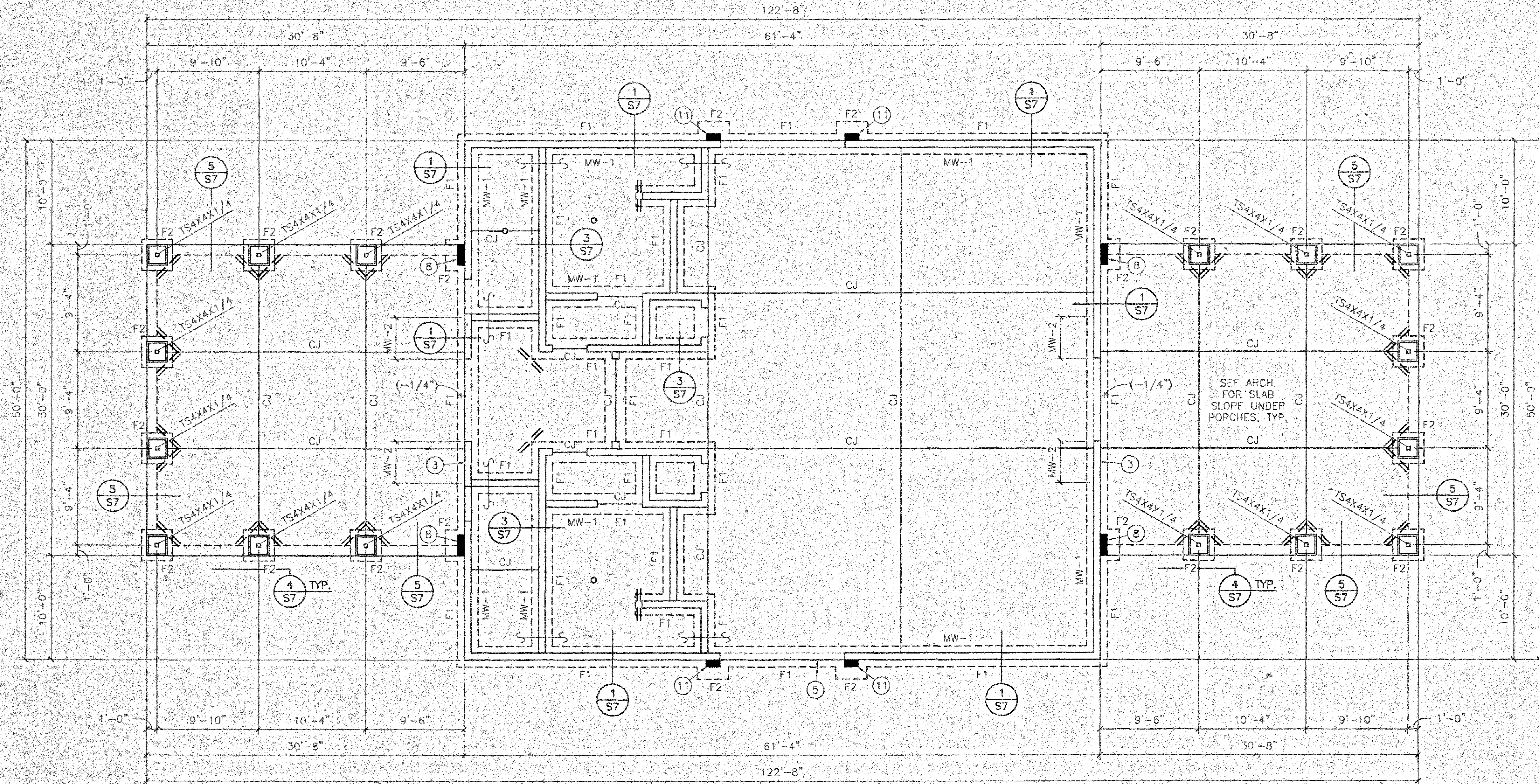
# LEGEND:

CJ DENOTES SLAB CONSTRUCTION JOINT. SEE DETAIL 15 & 16/S7.  
 SJ DENOTES SLAB SAW JOINT. SEE DETAIL 15 & 16/S7.  
 FX DENOTES FOOTING. SEE SCHEDULE ON SHEET S3.  
 TS DENOTES TUBE STEEL COLUMN.  
 MW-X DENOTES MASONRY WALL TYPE. SEE SCHEDULE ON SHEET S3.  
 // DENOTES (2)#4x48" BARS IN SLAB @ RE-ENTRANT CORNER.  
 S DENOTES FOOTING STEP. SEE DETAIL 19/S8.  
 O DENOTES FOR DRAIN. SEE ARCH. & PLUMBING DRAWINGS.

## PLAN NOTES:

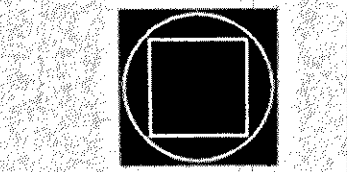
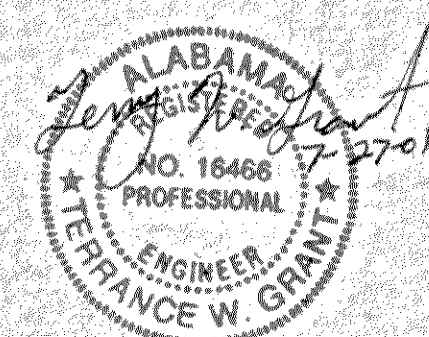
1. SEE SHEET S-1 FOR STRUCTURAL NOTES, INCLUDING SLAB CONSTRUCTION.
2. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN AND FOR ANY DEPRESSED OR SLOPED SLAB AREAS. SEE ARCH. AND CIVIL DRAWINGS FOR ALL SIDEWALKS, PAVING, CURBS, ETC.
3. PROVIDE 3/8" PREMOLDED EXPANSION JOINT FILLER WITH SEALANT WHERE SIDEWALKS AND CONCRETE PAVING ABUTS BLDG., TYPICAL.
4. SEE SHEET S-4 FOR MEZZANINE FRAMING PLAN.
5. CAP SLAB OVER FOUNDATION WALL @ DOORS, TYPICAL. COORDINATE W/ ARCH. DETAILS.
6. ALL MASONRY WALLS SHALL BE MW-1 UNLESS SHOWN OTHERWISE.
7. SEE SHEET S2 FOR FOOTING & MASONRY WALL SCHEDULE.
8. GROUT 8"x24" CMU W/ CONCRETE, FULL HEIGHT. REINFORCE W/ (2) #5 VERTICAL. DOWEL TO FOOTING.
9. PROVIDE A TYPICAL THICKENED SLAB UNDER ALL CMU WALLS NOT BEARING ON A FOOTING. SEE DETAIL 2/S7.

10. PROVIDE 4" MIN. THICKNESS CONCRETE PADS AT EXTERIOR AS REQUIRED FOR ELECTRICAL & MECHANICAL EQUIPMENT. REINFORCE WITH W.W.F. SAME AS FLOOR SLAB.
11. GROUT CMU PROJECTION SOLID & PROVIDE ANCHORS TO MAIN CMU WALL @ 16" VERTICALLY O.C. REINFORCE W/ (2) #5 VERTICAL. DOWEL TO FOOTING.



TENNIS BUILDING FOUNDATION PLAN  
 SCALE: 3/16"=1'-0"

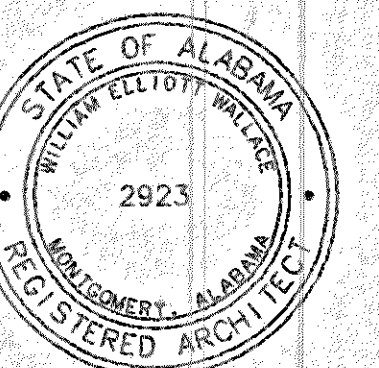
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**TENNIS  
 BUILDING  
 FOUNDATION  
 PLAN**

**S2**  
 sheet 3 of 34

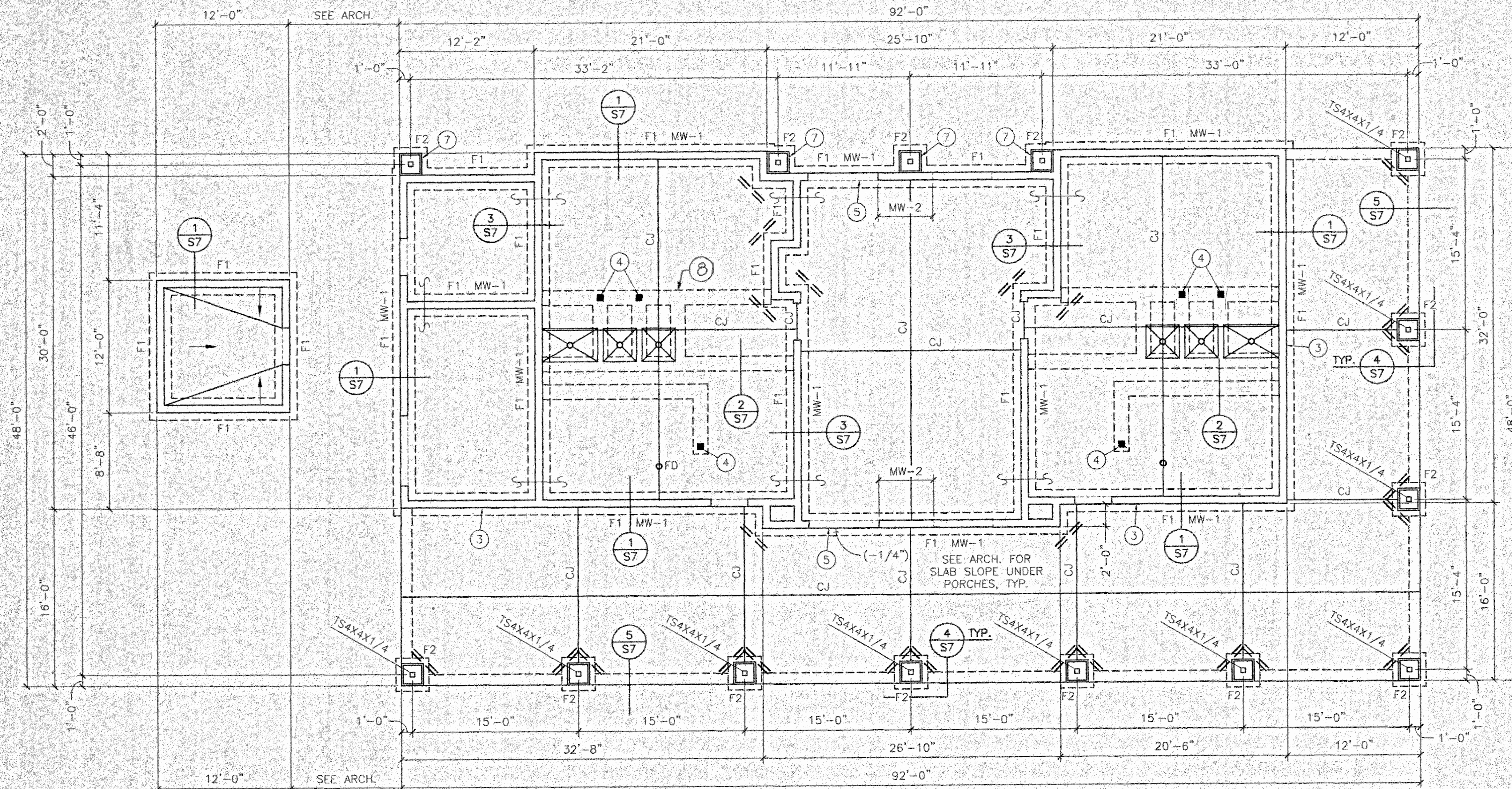


# LEGEND:

CJ DENOTES SLAB CONSTRUCTION JOINT. SEE DETAIL 15 & 16/S7.  
 SJ DENOTES SLAB SAW JOINT. SEE DETAIL 15 & 16/S7.  
 FX DENOTES FOOTING. SEE SCHEDULE.  
 TS DENOTES TUBE STEEL COLUMN.  
 MW-X DENOTES MASONRY WALL TYPE. SEE SCHEDULE.  
 // DENOTES (2) #4x48" BARS IN SLAB @ RE-ENTRANT CORNER.  
 S DENOTES FOOTING STEP. SEE DETAIL 19/S8.  
 O DENOTES FOR DRAIN. SEE ARCH. & PLUMBING DRAWINGS.

# PLAN NOTES:

- SEE SHEET S-1 FOR STRUCTURAL NOTES, INCLUDING SLAB CONSTRUCTION.
- SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN AND FOR ANY DEPRESSED OR SLOPED SLAB AREAS. SEE ARCH. AND CIVIL DRAWINGS FOR ALL SIDEWALKS, PAVING, CURBS, ETC.
- PROVIDE 3/8" PREMOLDED EXPANSION JOINT FILLER WITH SEALANT WHERE SIDEWALKS AND CONCRETE PAVING ABUTS BLDG., TYPICAL.
- PROVIDE #5 VERTICAL, FULL HEIGHT IN CELL @ END OF WALL. DOWEL #5 TO THICKENED SLAB. FILL CELL W/ CONCRETE @ #5.
- CAP SLAB OVER FOUNDATION WALL @ DOORS, TYPICAL. COORDINATE W/ ARCH. DETAILS.
- ALL MASONRY WALLS SHALL BE MW-1 UNLESS SHOWN OTHERWISE.
- SEE ARCHITECTURAL DRAWINGS FOR DECORATIVE COLUMNS. PROVIDE CONCRETE FILLED CMU BASE.
- PROVIDE A TYPICAL THICKENED SLAB UNDER ALL CMU WALLS NOT BEARING ON A FOOTING. SEE DETAIL 2/S7.
- PROVIDE 4" MIN. THICKNESS CONCRETE PADS AT EXTERIOR AS REQUIRED FOR ELECTRICAL & MECHANICAL EQUIPMENT. REINFORCE WITH W.W.F. SAME AS FLOOR SLAB.



## FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICK	CROSSWISE REINF.				LENGTHWISE REINF.				NOTES
				NO.	SIZE	LENGTH	SPA.	NO.	SIZE	LENGTH	SPA.	
F1	2'-0"	CONT.	12"	3	#3	1'-6"	48"	3	#5	CONT.	EQ.	
F2	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ.	3	#5	2'-6"	EQ.	

## FOOTING SCHEDULE NOTES:

- SEE STRUCTURAL NOTES ON SHEET S1 FOR REINFORCING AND CONCRETE INFORMATION.
- CENTER FOOTINGS UNDER COLUMNS AND WALLS, U.N.O.

## MASONRY WALL SCHEDULE

MARK	THICK	VERTICAL REINF.			HORIZONTAL REINF.			GROUT	NOTES
		NO.	SIZE	SPA.	NO.	SIZE	SPA.		
MW-1	8"	1	#5	48"	2	#5	96"	AT REBAR ONLY	--
MW-2	8"	1	#5	24"	2	#5	96"	SOLID	--

## MASONRY WALL SCHEDULE NOTES:

- LOCATE VERTICAL REINFORCING EACH SIDE OF ALL OPENINGS, EACH SIDE OF MASONRY CONTROL JOINTS AND AT ALL ENDS AND CORNERS IN ADDITION TO SCHEDULED SPACING. SEE PLAN WHERE SPECIAL MASONRY COLUMNS OCCUR AT JAMBS. DOWEL VERTICAL REINFORCING TO FOOTING OR THICKENED SLAB, WHERE OCCURS.
- PLACE HORIZONTAL REINFORCING AT FLOOR LEVEL. SEE PLANS, SECTIONS AND SCHEDULES FOR SPECIAL HORIZONTAL REINFORCING AT ROOF AND OVER OPENINGS.
- SEE 14/S7 FOR CORNER BAR DETAILS AND AT INTERSECTING WALLS.
- USE WALL TYPE MW-1 FOR 8" CMU WALLS WHERE NO WALL MARK IS SHOWN ON PLANS.
- SPECIAL INSPECTION IS REQUIRED FOR ALL MASONRY.

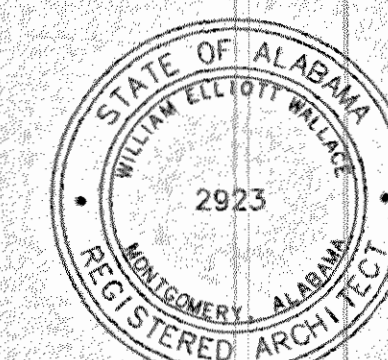
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S3

sheet 4 of 34

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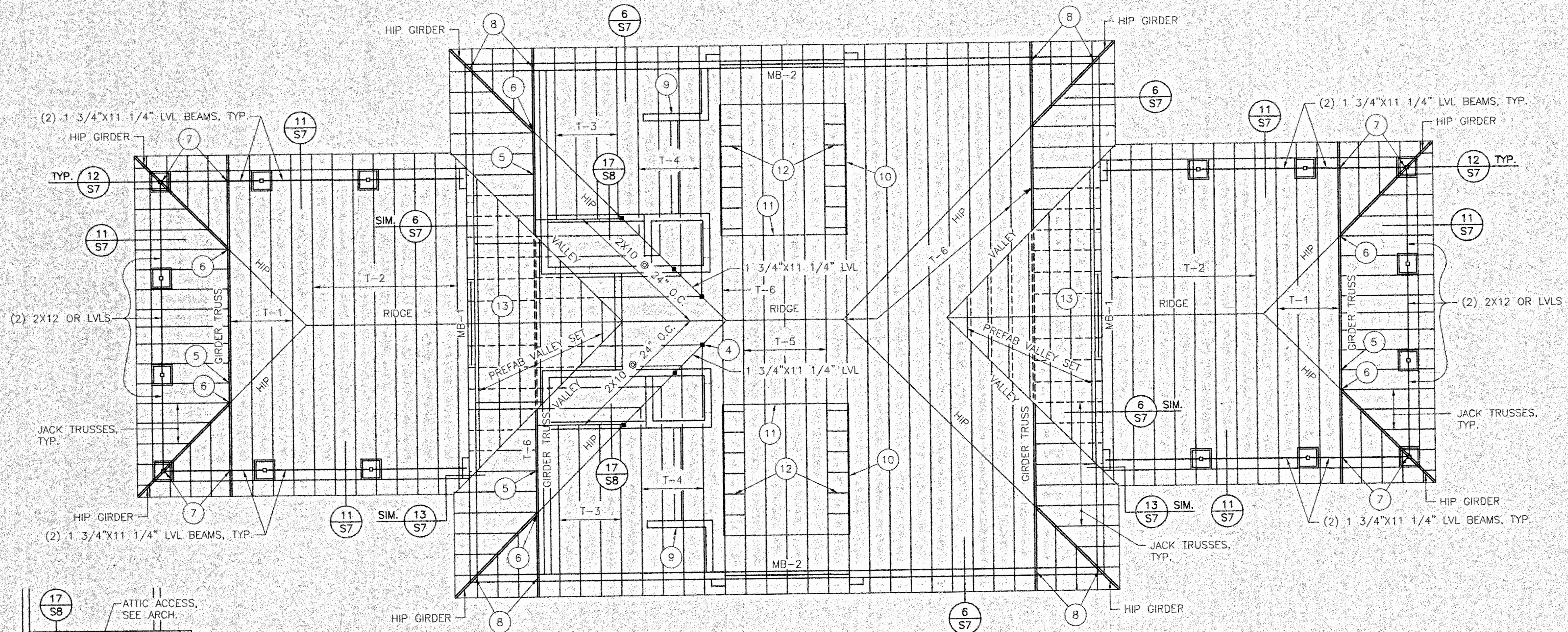


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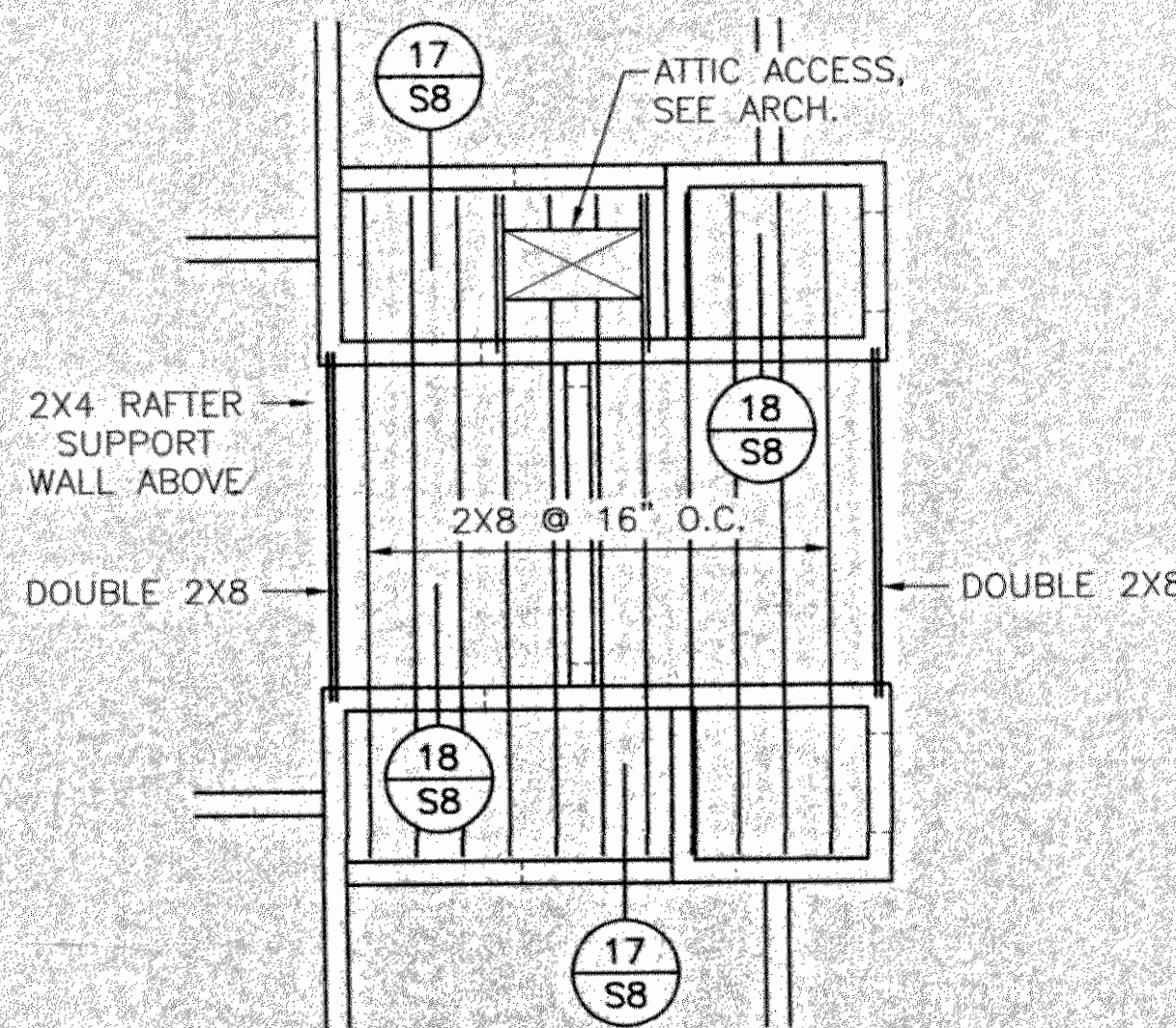
MB-X DENOTES MASONRY BEAM (LINTEL). SEE SCHEDULE ON SHEET S5.  
 X DENOTES CONT. 2X4 "X" BRACING. SEE DETAIL ON SHEET S6.

## PLAN NOTES:

1. SEE SHEET S-1 FOR STRUCTURAL NOTES, INCLUDING PLYWOOD DECK DIAPHRAGM INFORMATION.
2. ALL PREFAB. TRUSSES & ROOF FRAMING SHALL BE SPACED @ 24" MAX. O.C., U.N.O.
3. PROVIDE 2X BLOCKING @ ALL HIP, VALLEYS, & RIDGES. NAIL PLYWOOD EDGES TO BLOCKING AS PER STRUCTURAL NOTES. CUT 2"x12" SLOTS EACH SIDE OF RIDGE WHERE RIDGE VENTS OCCUR.
4. INDICATES LOCATION OF SUPPORT POST BELOW HIP BEAM. (USE (2) 2X6 AS MIN.)
5. PROVIDE SIMPSON U26 HANGER, OR APPROVED EQUAL, @ JACK TRUSS TO GIRDER CONNECTION. PROVIDE SIMPSON A35 @ TOP CHORD. PROVIDE SKEWED HANGERS @ JACK TRUSS TO HIP GIRDER CONNECTION.
6. PROVIDE SIMPSON THJA26 HANGER, OR APPROVED EQUAL, @ HIP GIRDER TO GIRDER TRUSS CONNECTION. PROVIDE SIMPSON LS50 ANCHOR @ TOP CHORD.
7. PROVIDE (2) SIMPSON MTS16 TIE DOWN STRAPS @ GIRDER TRUSS TO WOOD BEAM CONNECTION.
8. PROVIDE SIMPSON LTT20B TIE DOWN ANCHOR, OR APPROVED EQUAL, @ GIRDER TRUSS BEARING ON CMU WALL. SEE DETAIL 8/S7.
9. SEE DETAIL 9/S7 FOR TYPICAL CMU PARTITION WALL BRACING DETAIL.
10. PROVIDE 2X6 OVERBUILD RAFTERS @ 24" MAX. O.C. @ DORMERS W/ 2X4 SUPPORT WALLS ON 3 SIDES. CONTINUE MAIN PLYWOOD DECK BELOW DORMER. CUT 16"x16"± HOLE THRU PLYWOOD AT EACH TRUSS SPACE BELOW DORMER AS REQUIRED FOR VENTILATION. SEE MECHANICAL. SEE ARCH. FOR DORMER DETAILS.
11. PROVIDE CONT. FLAT 2X8 BELOW DORMER RAFTER BEARING.
12. PROVIDE 2X4 BLOCKING @ 24" O.C. BETWEEN TRUSS TOP CHORDS, UNDER DORMER WALLS.
13. CONTINUE PLYWOOD DECK ON MAIN ROOF PLANE BELOW OVERBUILD, TYPICAL.



TENNIS BUILDING ROOF FRAMING PLAN  
 SCALE: 3/16"=1'-0"



MEZZANINE FRAMING PLAN  
 SCALE: 3/16"=1'-0"

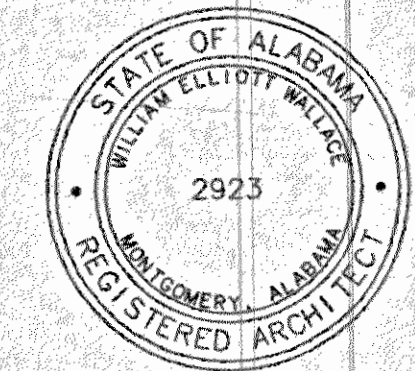
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 ROOF  
 FRAMING  
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S4  
 sheet 5 of 34



# LEGEND:

MB-X DENOTES MASONRY BEAM (LINTEL). SEE SCHEDULE.  
 X DENOTES CONT. 2X4 "X" BRACING. SEE DETAIL ON SHEET S6.

## PLAN NOTES:

1. SEE SHEET S-1 FOR STRUCTURAL NOTES, INCLUDING PLYWOOD DECK DIAPHRAGM INFORMATION.

2. ALL PREFAB. TRUSSES & ROOF FRAMING SHALL BE SPACED @ 24" MAX. O.C., U.N.O.

3. PROVIDE 2X BLOCKING @ ALL HIP, VALLEYS, & RIDGES. NAIL PLYWOOD EDGES TO BLOCKING AS PER STRUCT. NOTES. CUT 2"x12" SLOTS EACH SIDE OF RIDGE WHERE RIDGE VENTS OCCUR.

4. 16'-0" LENGTH OF PLYWOOD NAILED TO VERTICAL TRUSS WEB TO FORM SHEAR WALL. SEE DETAIL 7/S7.

5. T-10 IS A DRAG STRUT TRUSS. PROVIDE PLYWOOD DIAPHRAGM BOUNDARY NAILING TO TOP CHORD OF TRUSS.

6. PROVIDE SIMPSON THA218-2 HANGER, OR APPROVED EQUAL, @ GIRDER TO GIRDER CONNECTION. PROVIDE SIMPSON A35 @ TOP CHORD.

7. PROVIDE SIMPSON U26 HANGER, OR APPROVED EQUAL, @ JACK TRUSS TO GIRDER CONNECTION. PROVIDE SIMPSON A35 @ TOP CHORD. PROVIDE SKEWED HANGERS @ JACK TRUSS TO HIP GIRDER CONNECTION.

8. PROVIDE SIMPSON THJA26 HANGER, OR APPROVED EQUAL, @ HIP GIRDER TO GIRDER TRUSS CONNECTION. PROVIDE SIMPSON LS50 ANCHOR @ TOP CHORD.

9. PROVIDE (2) SIMPSON MTS16 TIE DOWN STRAPS @ GIRDER TRUSS TO WOOD BEAM CONNECTION.

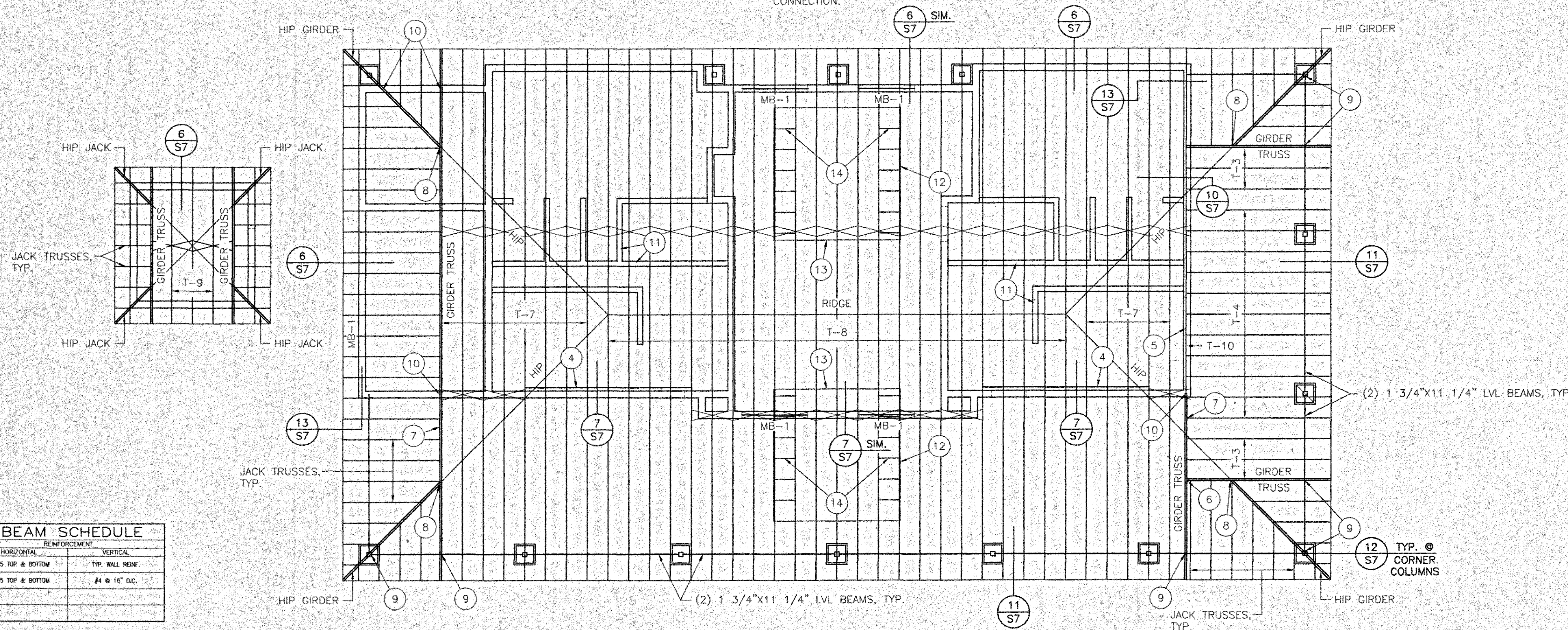
10. PROVIDE SIMPSON LTT20B TIE DOWN ANCHOR, OR APPROVED EQUAL, @ GIRDER TRUSS BEARING ON CMU WALL. SEE DETAIL 8/S7.

11. SEE DETAIL 9/S7 FOR TYPICAL CMU PARTITION WALL BRACING DETAIL.

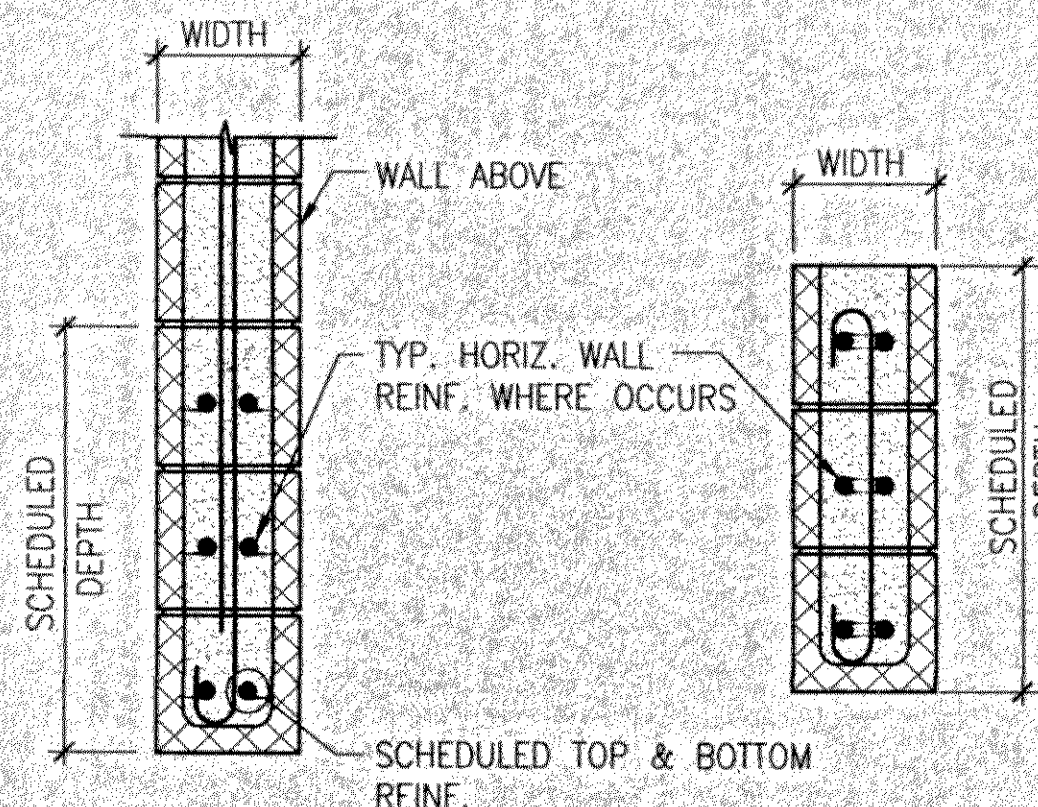
12. PROVIDE 2X6 OVERBUILD RAFTERS @ 24" MAX. O.C. @ DORMERS W/ 2X4 SUPPORT WALLS ON 3 SIDES. CONTINUE MAIN PLYWOOD DECK BELOW DORMER. CUT 16"x16"± HOLE THRU PLYWOOD AT EACH TRUSS SPACE BELOW DORMER AS REQUIRED FOR VENTILATION. SEE MECHANICAL. SEE ARCH. FOR DORMER DETAILS.

13. PROVIDE CONT. FLAT 2X8 BELOW DORMER RAFTER BEARING.

14. PROVIDE 2X4 BLOCKING @ 24" O.C. BETWEEN TRUSS TOP CHORDS, UNDER DORMER WALLS.



MASONRY BEAM SCHEDULE				
MARK	WIDTH	DEPTH	REINFORCEMENT	
			HORIZONTAL	VERTICAL
MB-1	8"	16"	(2) #5 TOP & BOTTOM	TYP. WALL REINF.
MB-2	8"	32"	(2) #5 TOP & BOTTOM	#4 @ 16" O.C.



## MASONRY BEAM DETAILS

### MASONRY BEAM NOTES:

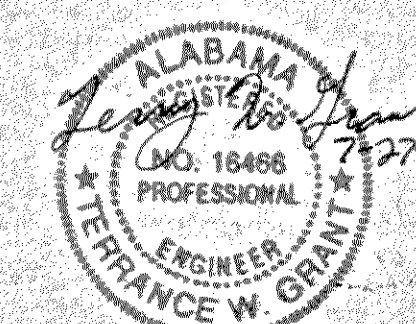
- VERTICAL WALL REINFORCEMENT (SIZE AND SPACING) SHALL BE USED U.N.O. VERTICAL REINF. ENDS WITH STD. ACI 180 DEGREE HOOK AND 48 BAR DIAMETER LAP WITH VERTICAL REINF. ABOVE BM. PROVIDE 180 DEGREE HK. AT TOP ALSO WHERE NO WALL OCCURS ABOVE BM.
- GROUT BEAMS SOLID FOR DEPTH SHOWN IN BEAM SCHEDULE. PLUS AS PER DETAILS AND STRUCTURAL NOTES.
- TOP BARS SHALL EXTEND THE GREATER OF 24" OR 48 BAR DIAMETERS BEYOND FACE OF SUPPORTS AND BE SPLICED WHEN NECESSARY AT MID SPAN. BOTTOM BARS SHALL EXTEND 24" INTO SUPPORTS AND BE SPLICED OVER SUPPORTS WHEN NECESSARY.
- GROUT SIDES OF OPENINGS SOLID 1"/FT. OF OPENING WIDTH, MINIMUM ONE 8" CELL FOR UP TO 8'-0" SPAN, 2 CELLS FOR UP TO 12'-0" SPAN, ETC., UNLESS NOTED OTHERWISE.
- AT MECHANICAL OPENINGS IN WALLS USE MASONRY BEAMS OF SIMILAR SIZE AND REINFORCING AS SHOWN IN THOSE WALLS FOR EQUIVALENT WIDTH OPENINGS.

## POOL BUILDING ROOF FRAMING PLAN

SCALE: 3/16"=1'-0"

- REINFORCING INDICATED IN MASONRY BEAM SCHEDULE IS IN ADDITION TO STANDARD WALL REINF.
- SPECIAL INSPECTION IS REQUIRED.
- AT WALL OPENINGS NOT SHOWN OTHERWISE ON STRUCTURAL DRAWINGS, FOR OPENINGS TO 4'-0" CLEAR USE 8" DEEP MASONRY BEAM W/(2) #4 @ BOTTOM, FOR OPENINGS TO 6'-8" CLEAR, USE 16" DEEP MASONRY BEAM W/(2) #5 @ BOTTOM, FOR OPENINGS TO 10'-0" CLEAR, USE 24" DEEP MASONRY BEAM W/ (2) #5 TOP AND BOTTOM.
- SEE ARCHITECTURAL ELEVATIONS WHERE SPECIAL 16" VERTICAL LINTELS OCCUR.

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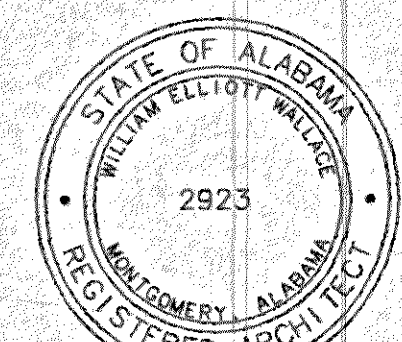
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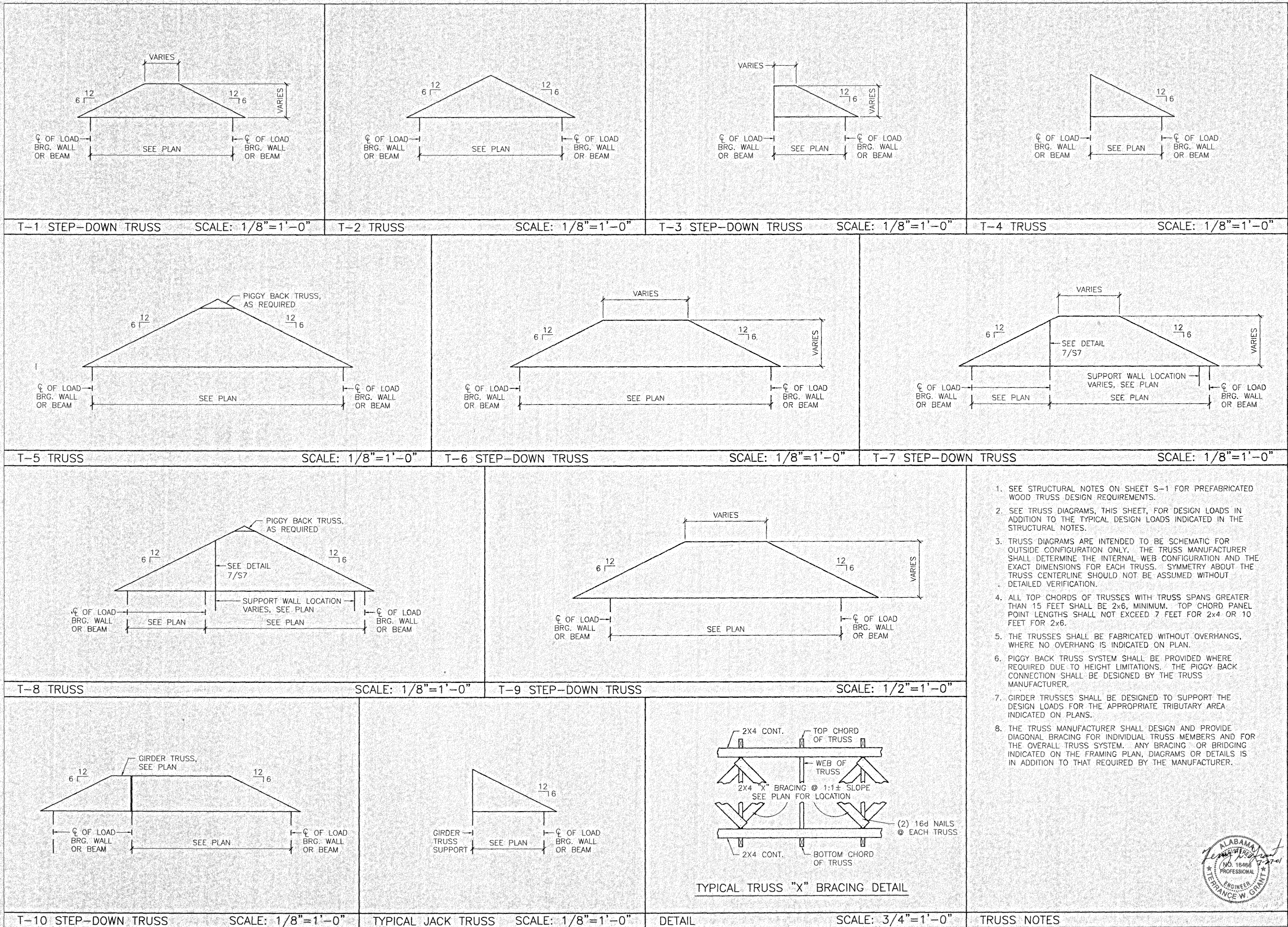
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 ROOF  
 FRAMING  
 PLAN

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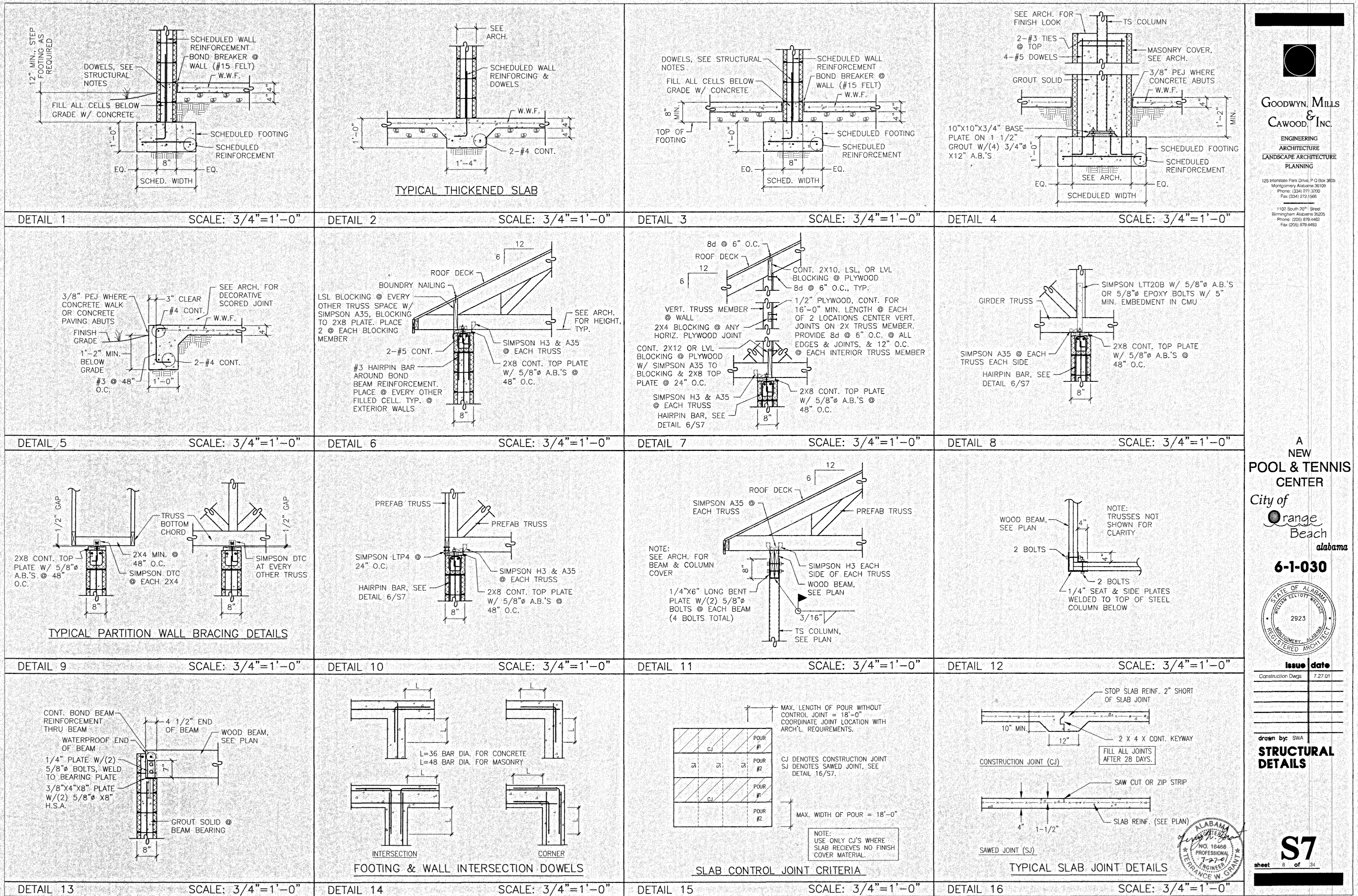
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**STRUCTURAL DETAILS**

**S6**  
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STATE OF ALABAMA  
JUDITH ELLIOTT WELLS  
2923  
MONTGOMERY, ALABAMA  
REGISTERED ARCHITECT

Issue date  
Construction Dwg 7.27.01

drawn by: SWA

**STRUCTURAL DETAILS**

ALABAMA  
JUDITH ELLIOTT WELLS  
NO. 18466  
PROFESSIONAL  
1-27-0  
REGISTERED ARCHITECT

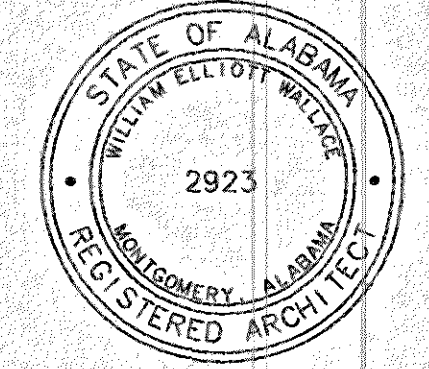
**S7**  
sheet 6 of 34



DETAIL 17	DETAIL 18	DETAIL 19	NOT USED
SCALE: 3/4"=1'-0"	SCALE: 3/4"=1'-0"	SCALE: 3/4"=1'-0"	SCALE: 3/4"=1'-0"
NOT USED	NOT USED	NOT USED	NOT USED
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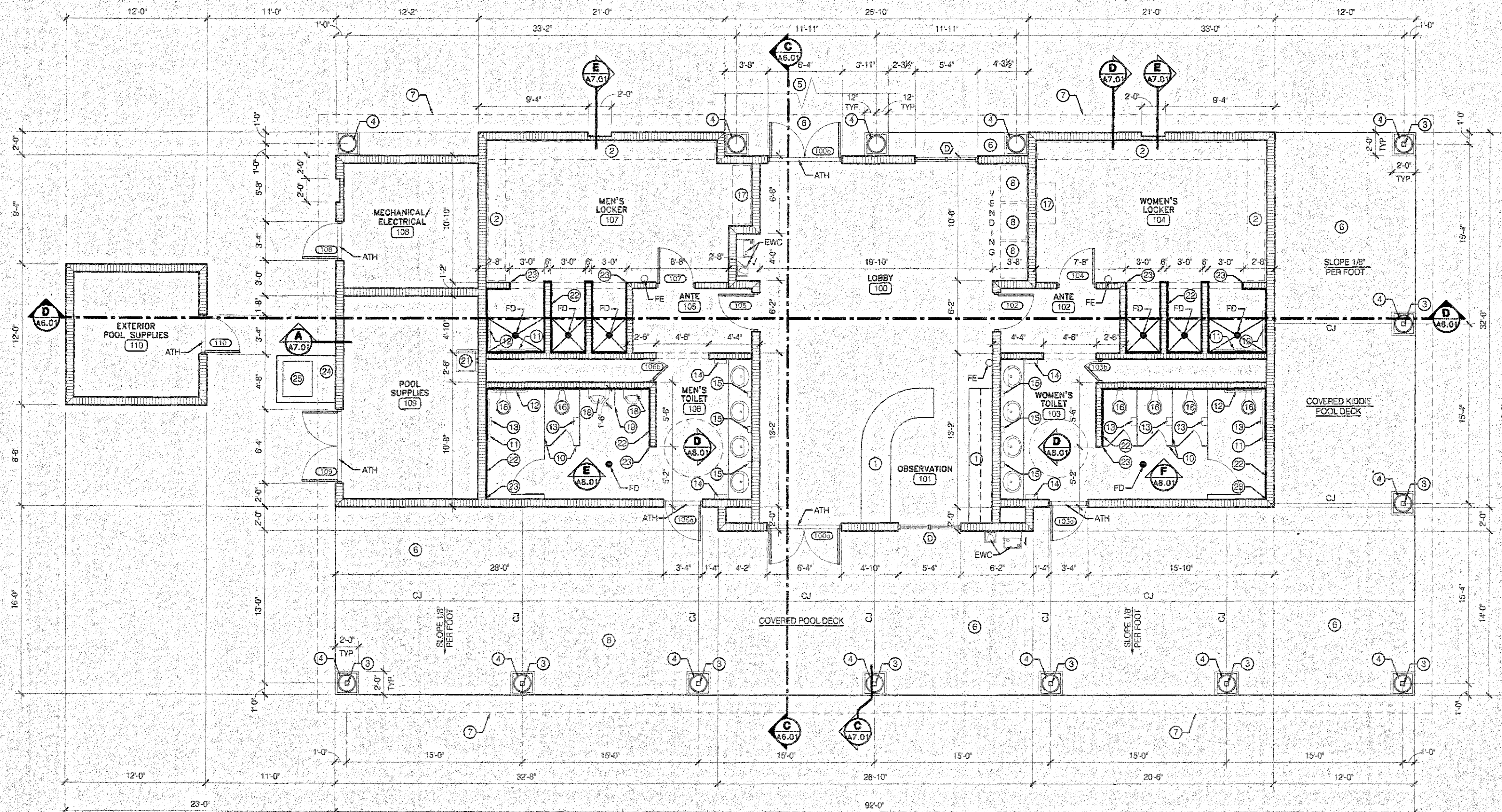
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**STRUCTURAL DETAILS**

**S8**  
 sheet 9 of 34





**FLOOR PLAN**  
SCALE: 3/16" = 1'-0"

GROSS SQUARE FOOTAGE  
TOTAL = 2,538 S.F.



**KEYNOTE LEGEND:**

- 1 CASEWORK BY OWNER- N.I.C.
- 2 LOCKERS BY OWNER- N.I.C.
- 3 STEEL COLUMN- SEE STRUCTURAL.
- 4 18" DIA. FRP OR GFRP COLUMN COVER, PAINTED. SECURE TO SLAB AND STRUCTURE PER MANUFACTURERS' WRITTEN RECOMMENDATIONS. STYLE TO BE TUSCAN WITH ENTASIS TAPER.
- 5 CONCRETE WALK, PAVING, ETC.
- 6 CONCRETE SIDEWALK PAVING- 4" THICK UNLESS OTHERWISE NOTED.
- 7 LINE OF OVERHANG ABOVE
- 8 EQUIPMENT BY OTHERS- N.I.C.
- 9 1 1/2" DIA. PREFINISHED ALUMINUM HANDRAIL
- 10 PLASTIC LAMINATE TOILET PARTITION
- 11 42" GRAB BAR
- 12 36" GRAB BAR
- 13 TOILET PAPER DISPENSER- N.I.C.
- 14 ELECTRIC HAND DRYER- SEE SPECS.
- 15 SOAP DISPENSER- N.I.C.
- 16 FLOOR MOUNTED TOILET
- 17 BABY CHANGE BEACH- BY OWNER
- 18 URINAL
- 19 PLASTIC LAMINATE URINAL SCREEN
- 20 30" x 54" PULL DOWN STAIR ABOVE BY PRECISION LADDERS, LLC OR EQUIVALENT
- 21 JANITOR'S SINK- SEE PLUMBING
- 22 76" HIGH CERAMIC TILE WAINSCOT
- 23 TERMINATE CERAMIC TILE WAINSCOT AT THIS LOCATION
- 24 CONCRETE PAD FOR H.V.A.C. UNIT- SEE MECHANICAL
- 25 H.V.A.C. UNIT- SEE MECHANICAL

**GENERAL NOTES:**

**ABBREVIATIONS:**

- FD - FLOOR DRAIN  
EWC - ELECTRIC WATER COOLER  
FEC - FIRE EXTINGUISHER AND CABINET  
FE - FIRE EXTINGUISHER AND BRACKET  
NIC - NOT IN CONTRACT  
POS - FACE OF STUD  
FOBO - FACE OF BRICK OFFSET  
TYP - TYPICAL  
CJ - CONTROL JOINT  
ATH - ALUMINUM THRESHOLD AS SCHEDULED  
ECC - EXTENT OF CARPET  
R.O. - ROUGH OPENING  
EQUIP - EQUIPMENT  
G.C. - GENERAL CONTRACTOR  
A.F.F. - ABOVE FINISH FLOOR  
CONC. - CONCRETE  
DIA - DIAMETER  
E.J. - EXPANSION JOINT  
A.F.C. - ABOVE FINISH CONCRETE

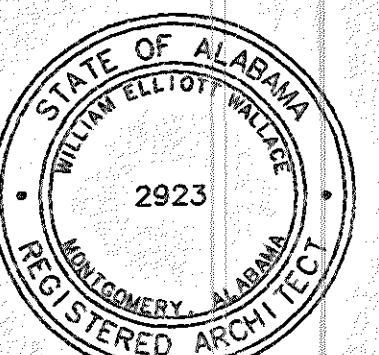
**PLAN LEGEND:**

- 2x4 WOOD STUD FRAMING AT 16" O.C. WITH 5/8" GYPSUM BOARD. TERMINATE AT BOTTOM OF WOOD TRUSSES
- 6 CMU, PAINTED
- OFFICE 102 ROOM NAME AND ROOM NUMBER- SEE SCHEDULE
- 109 DOOR NUMBER- SEE SCHEDULE
- A WINDOW TYPE- SEE SCHEDULE

**A NEW POOL & TENNIS CENTER**

City of  
*Orange Beach*  
alabama

**6-1-030**



**Issue date**

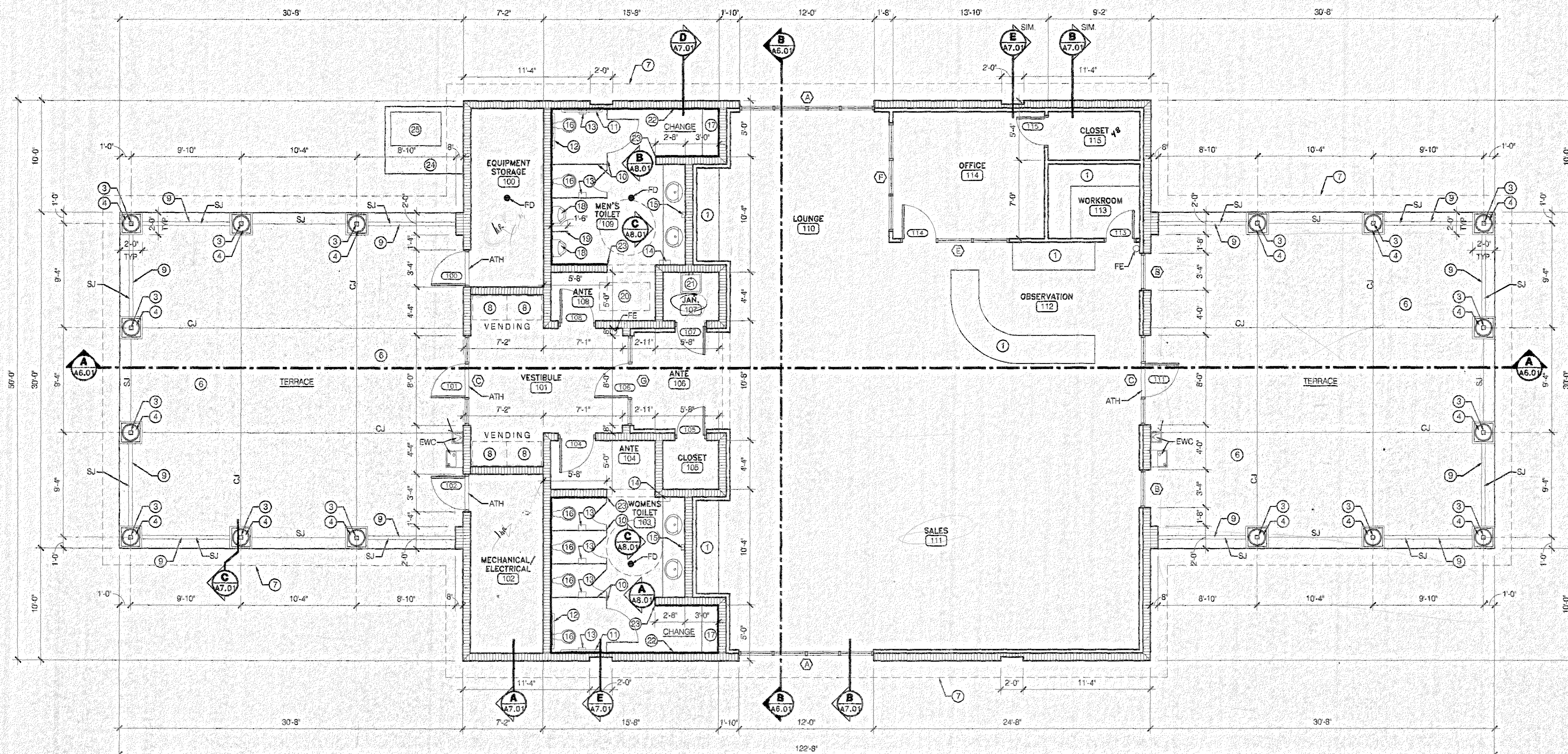
Construction Dwg 7.27.01

drawn by: CLT

**FLOOR PLAN- POOL**

**A1.02**  
sheet 11 of 34





**FLOOR PLAN**  
SCALE: 3/16" = 1'-0"

GROSS SQUARE FOOTAGE  
TOTAL = 3,076 S.F. ±



**KEYNOTE LEGEND:**

- 1 CASEWORK BY OWNER- N.I.C.
- 2 LOCKERS BY OWNER- N.I.C.
- 3 STEEL COLUMN- SEE STRUCTURAL
- 4 16" DIA. FRP OR GFRP COLUMN COVER PAINTED. SECURE TO SLAB AND STRUCTURE PER MANUFACTURERS WRITTEN RECOMMENDATIONS. STYLE TO BE TUSCAN WITH ENTASIS TAPER.
- 5 CONCRETE WALK, PAVING, ETC.
- 6 CONCRETE SIDEWALK PAVING- 4" THICK UNLESS OTHERWISE NOTED.
- 7 LINE OF OVERHANG ABOVE
- 8 EQUIPMENT BY OTHERS- N.I.C.
- 9 1 1/2" DIA. PREFINISHED ALUMINUM HANDRAIL
- 10 PLASTIC LAMINATE TOILET PARTITION
- 11 42" GRAB BAR
- 12 36" GRAB BAR
- 13 TOILET PAPER DISPENSER- N.I.C.
- 14 ELECTRIC HAND DRYER- SEE SPECS
- 15 SOAP DISPENSER- N.I.C.
- 16 FLOOR MOUNTED TOILET
- 17 BABY CHANGE BEANCH- BY OWNER
- 18 URINAL
- 19 PLASTIC LAMINATE URINAL SCREEN
- 20 30" x 54" PULL DOWN STAIR ABOVE BY PRECISION LADDERS, LLC OR EQUIVALENT
- 21 JANITOR'S SINK- SEE PLUMBING
- 22 76" HIGH CERAMIC TILE WAINSCOT
- 23 TERMINATE CERAMIC TILE WAINSCOT AT THIS LOCATION
- 24 CONCRETE PAD FOR H.V.A.C. UNIT- SEE MECHANICAL
- 25 H.V.A.C. UNIT- SEE MECHANICAL

**GENERAL NOTES:**

**ABBREVIATIONS:**

- FD - FLOOR DRAIN  
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**PLAN LEGEND:**

- 2"x4" WOOD STUD FRAMING AT 16" O.C. WITH 5/8" GYPSUM BOARD. TERMINATE AT BOTTOM OF WOOD TRUSSES
- 8" CMU, PAINTED
- OFFICE 102 ROOM NAME AND ROOM NUMBER- SEE SCHEDULE
- 103 DOOR NUMBER- SEE SCHEDULE
- (A) WINDOW TYPE- SEE SCHEDULE

**GOODWYN, MILLS & INC.**  
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LANDSCAPE ARCHITECTURE  
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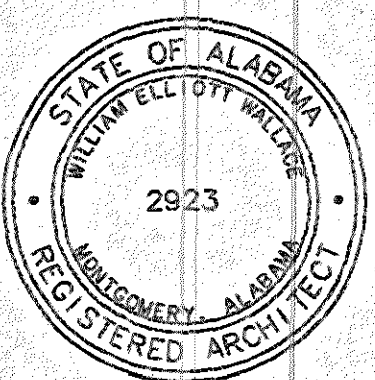
125 Interstate Park Drive, P.O. Box 3605  
Montgomery, Alabama 36103  
Phone: (334) 271-3200  
Fax: (334) 272-1566

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Birmingham, Alabama 35205  
Phone: (205) 679-4462  
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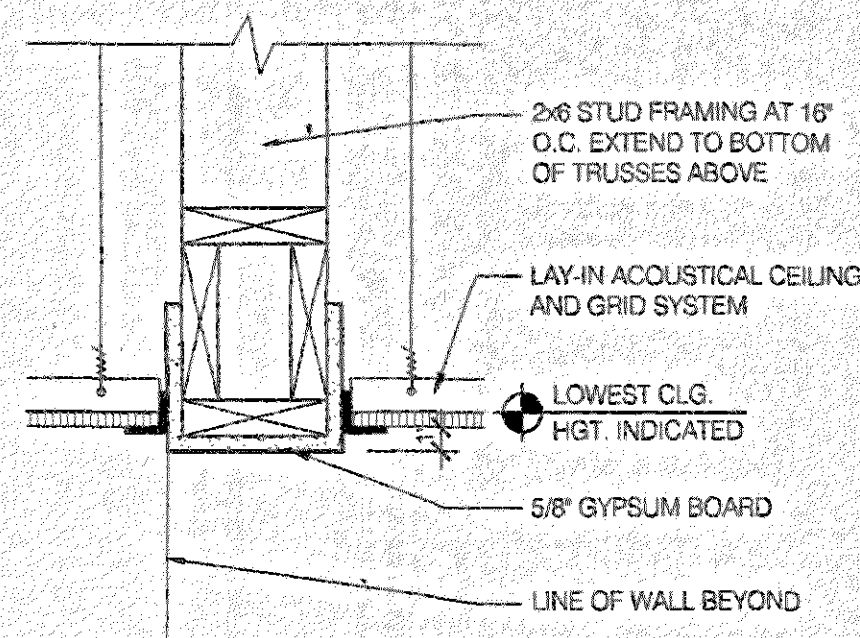
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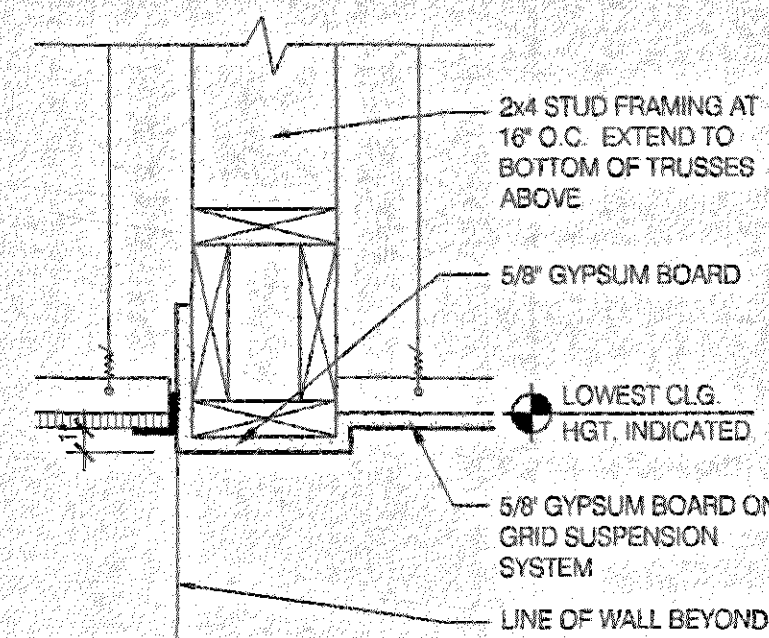
**FLOOR PLAN- TENNIS**

**A1.01**  
sheet 10 of 34

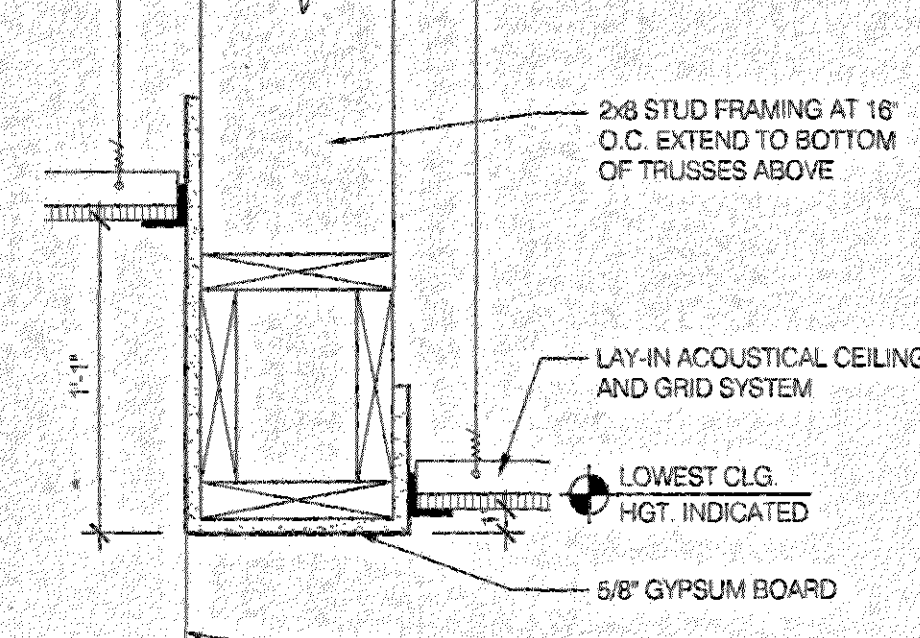




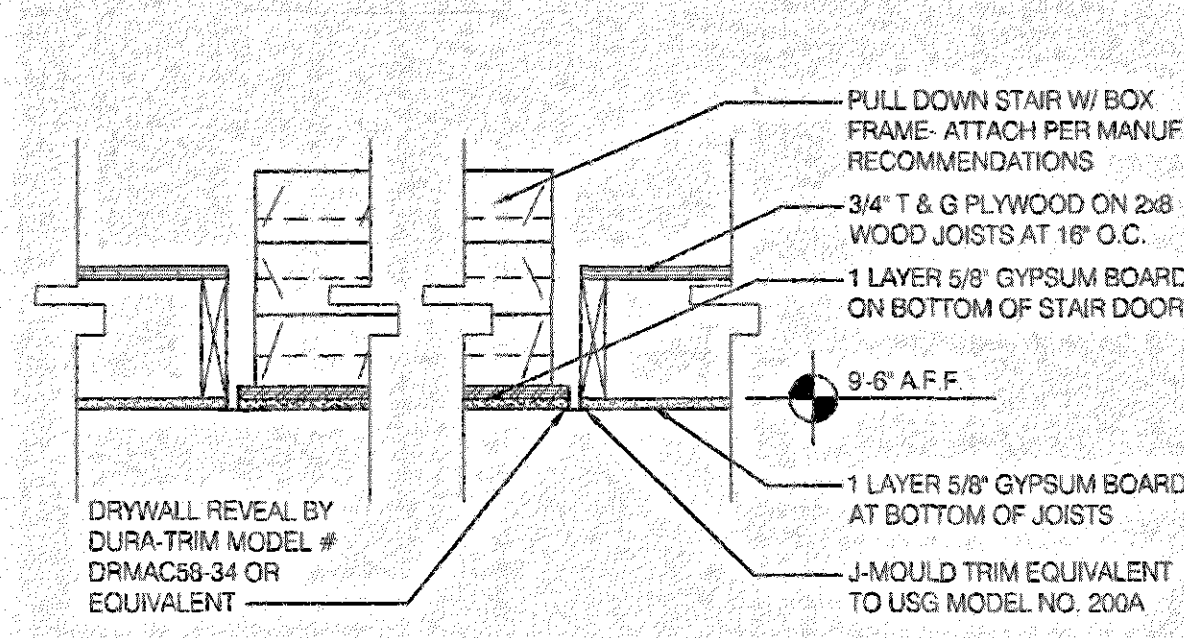
**1 DETAIL**  
A2.01 SCALE: 1 1/2" = 1'-0"



**2 DETAIL**  
A2.01 SCALE: 1 1/2" = 1'-0"



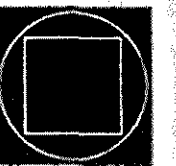
**3 DETAIL**  
A2.01 SCALE: 1 1/2" = 1'-0"



**4 DETAIL**  
A2.01 SCALE: 1 1/2" = 1'-0"

# KEYNOTE LEGEND:

- ① GYPSUM BOARD BULKHEAD
- ② EXTENT OF MECHANICAL MEZZANINE ABOVE
- ③ 30" x 54" PULL DOWN STAIR BY PRECISION LADDERS, LLC OR EQUIVALENT



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Fax: (205) 878-4493

# GENERAL NOTES:

- 1. CONTRACTOR SHALL COORDINATE EXACT LOCATION OF LIGHTS, GRILLES AND EQUIPMENT WITH ELECTRICAL, MECHANICAL AND EQUIPMENT.

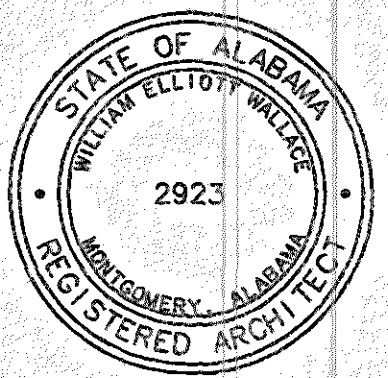
# PLAN LEGEND:

- 2 X 2 LAY-IN ACOUSTICAL CEILING AND GRID SYSTEM
- GYPSUM BOARD CEILING
- ATTIC SMOKE PARTITION
- 2 X 4 FLUORESCENT LIGHT FIXTURE
- 2 X 2 FLUORESCENT LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- EXIT LIGHT
- SUPPLY AIR GRILLE
- RETURN AIR GRILLE
- EXHAUST AIR GRILLE
- CEILING HEIGHT NOTE: COORDINATE WITH SCHEDULE. SCHEDULE AND/OR HIGHER ELEVATION DICTATES IN THE EVENT OF A CONFLICT.
- CEILING FAN
- VINYL SOFFIT
- EXTENT OF MECHANICAL MEZZANINE ABOVE. TERMINATE INTERIOR CMU WALLS THIS LOCATION AT BOTTOM OF MEZZANINE FLOOR FRAMING.

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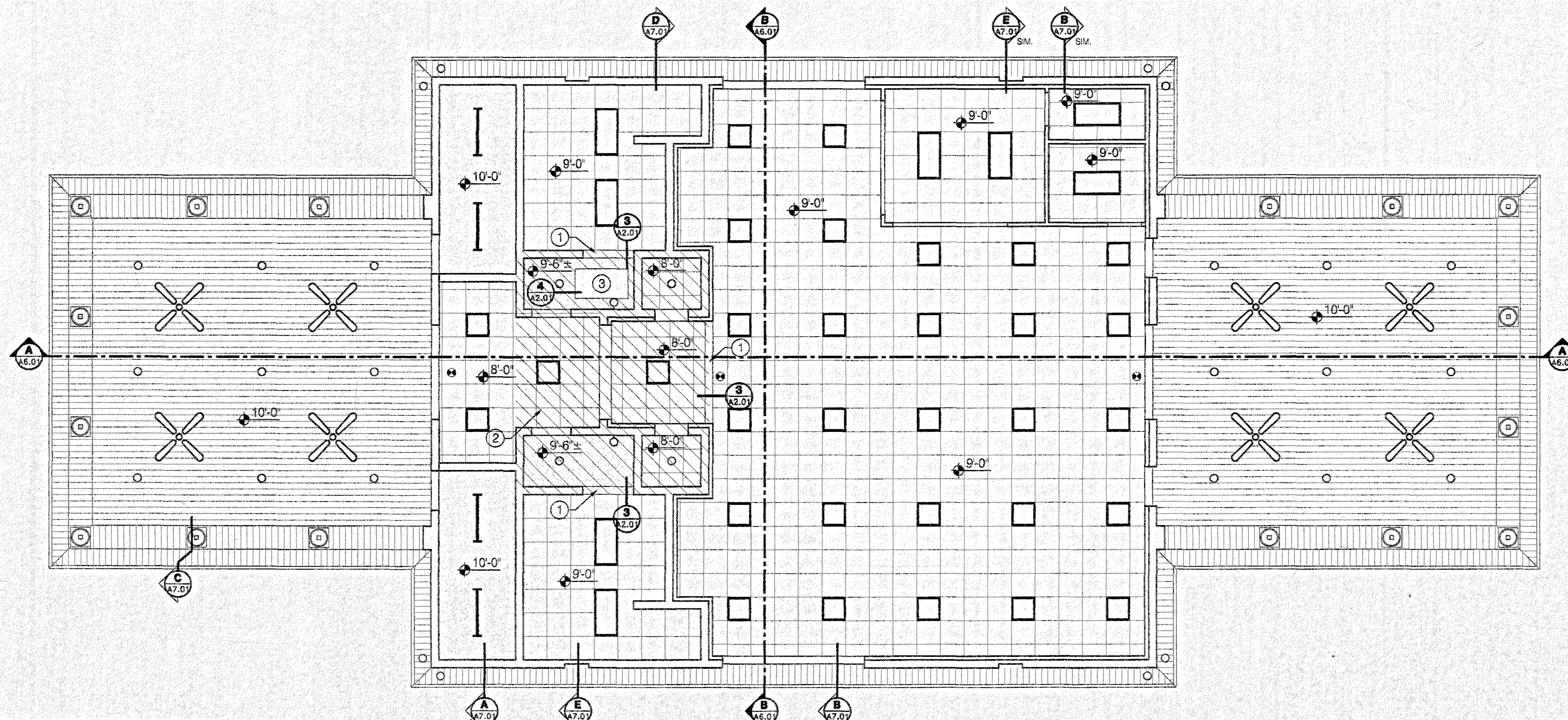
Issue date

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**REFLECTED  
CEILING  
PLAN- TENNIS**

**A2.01**  
sheet 12 of 34



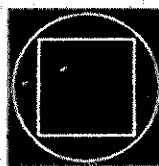
# REFLECTED CEILING PLAN

SCALE: 3/16" = 1'-0"





KEYNOTE LEGEND:  
① GYPSUM BOARD BULK-HEAD

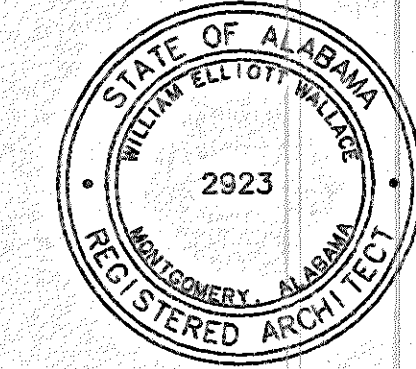


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



Issue	date
Construction Dwg	7-27-01

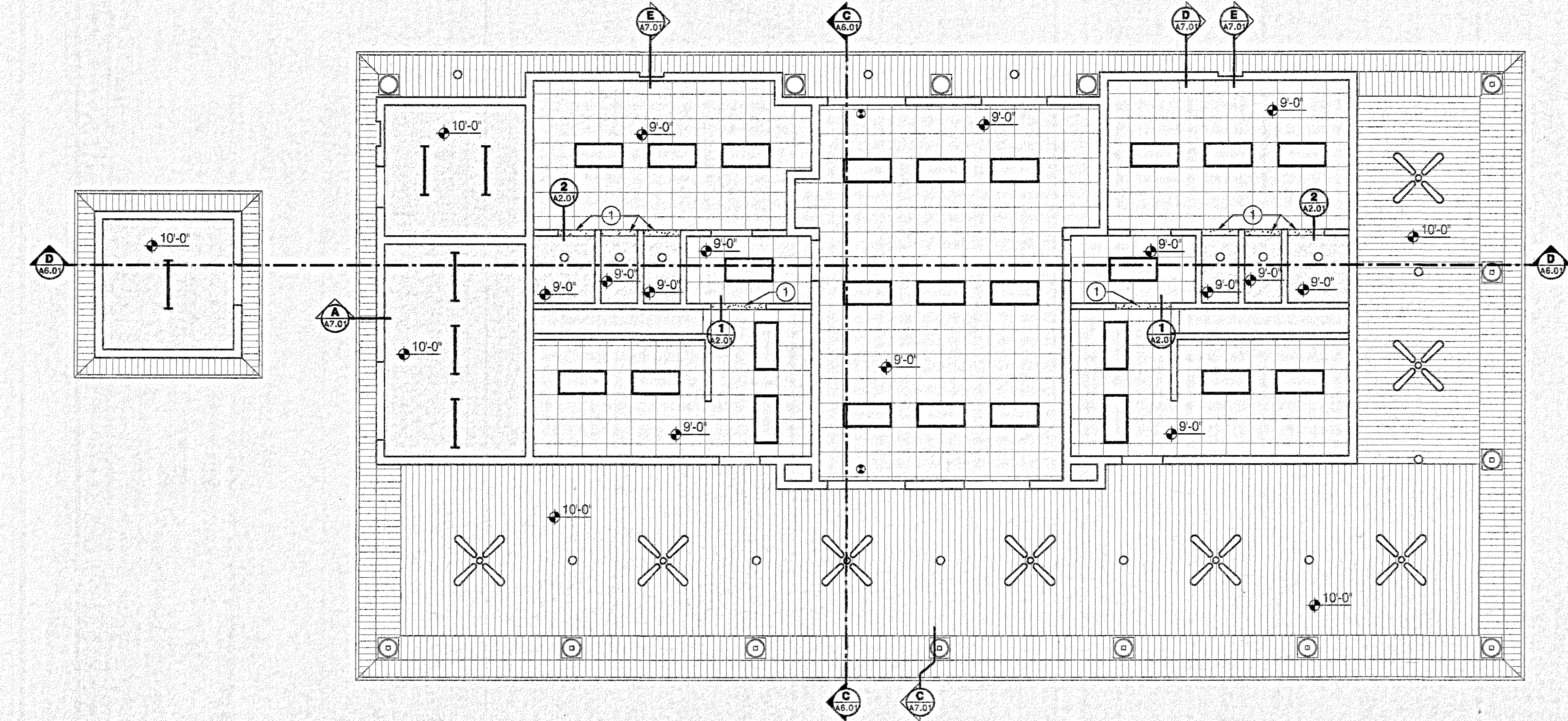
drawn by: CLT  
**REFLECTED  
CEILING  
PLAN- POOL**

**A2.02**  
sheet 13 of 34

GENERAL NOTES:  
1. CONTRACTOR SHALL COORDINATE EXACT  
LOCATION OF LIGHTS, GRILLES AND  
EQUIPMENT WITH ELECTRICAL  
MECHANICAL AND EQUIPMENT

PLAN LEGEND:

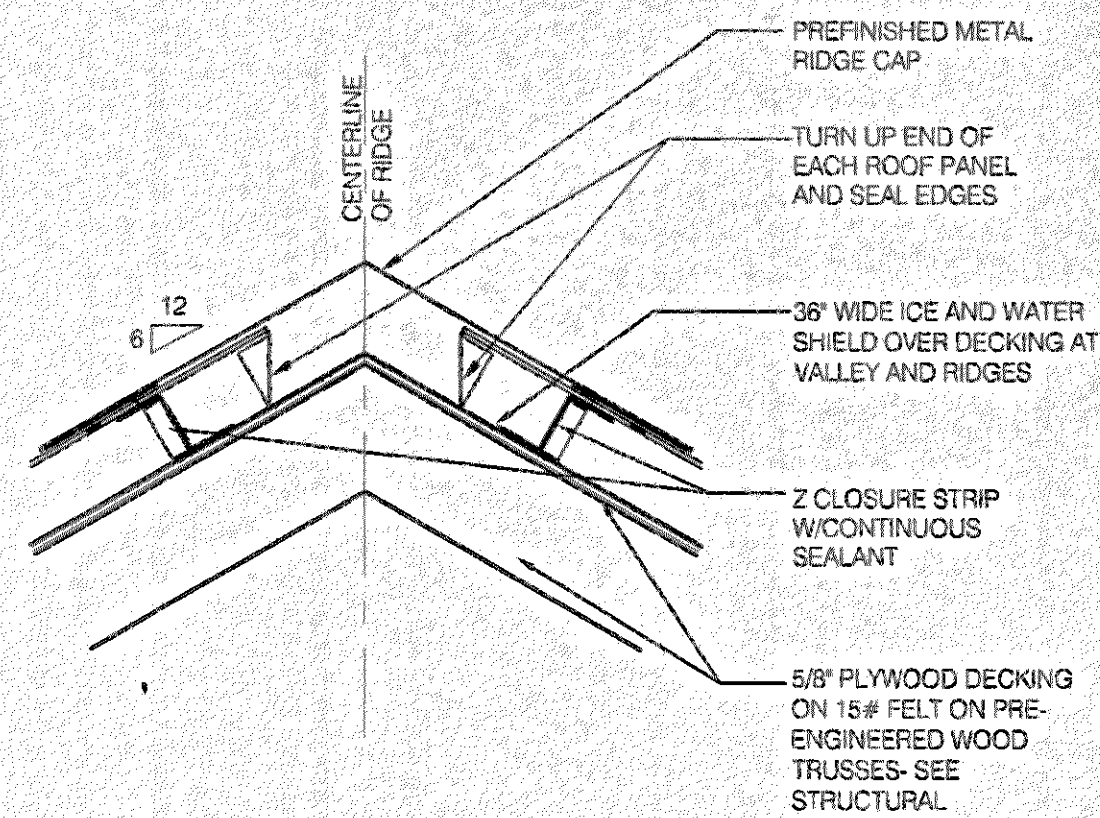
-  2 X 2 LAY-IN ACOUSTICAL  
CEILING AND GRID SYSTEM
-  GYPSUM BOARD CEILING
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SCHEDULE AND/OR HIGHER  
ELEVATION DICTATES IN THE  
EVENT OF A CONFLICT.
-  CEILING FAN
-  VINYL SOFFIT



**REFLECTED CEILING PLAN**  
SCALE: 3/16" = 1'-0"

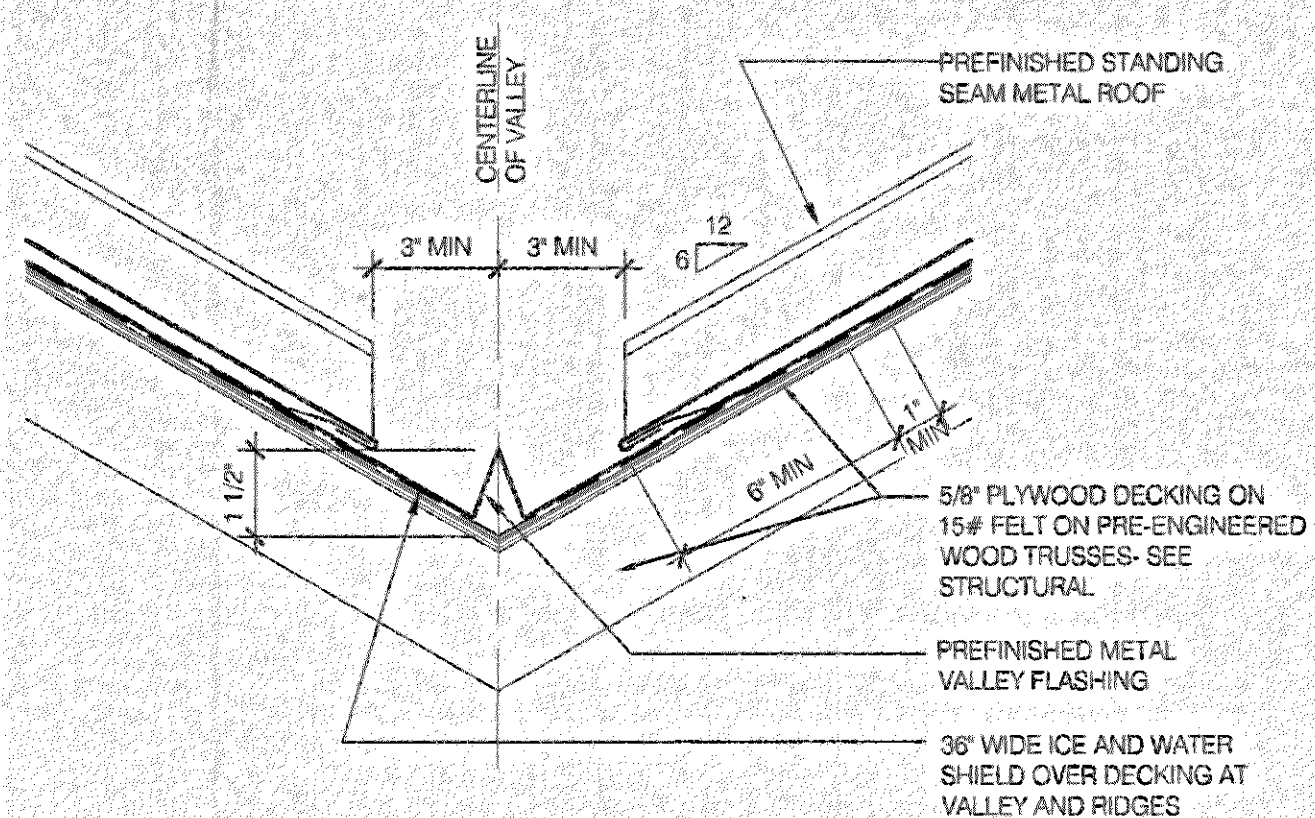






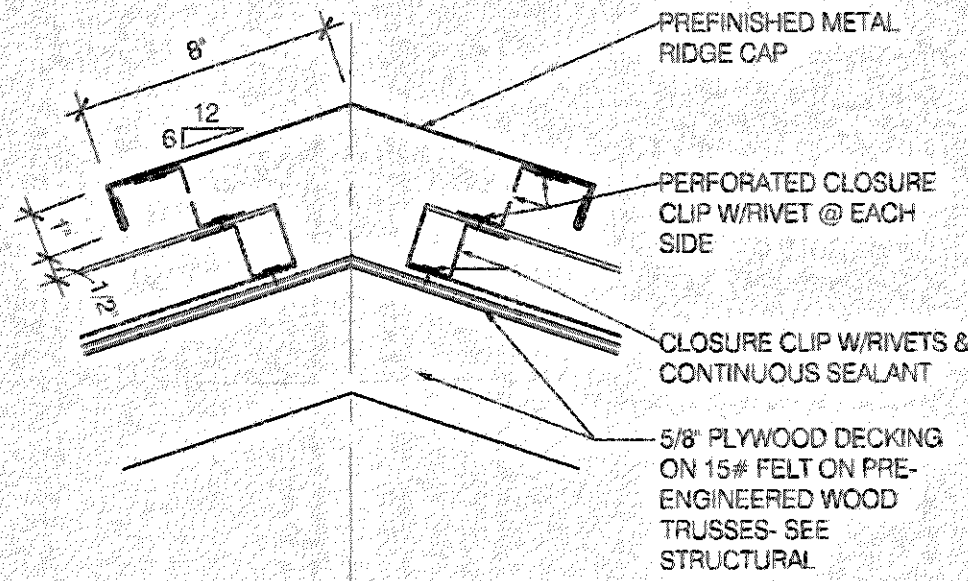
**1 ROOF DETAIL**

A3.01 SCALE: 3" = 1'-0"



**2 ROOF DETAIL**

A3.01 SCALE: 3" = 1'-0"

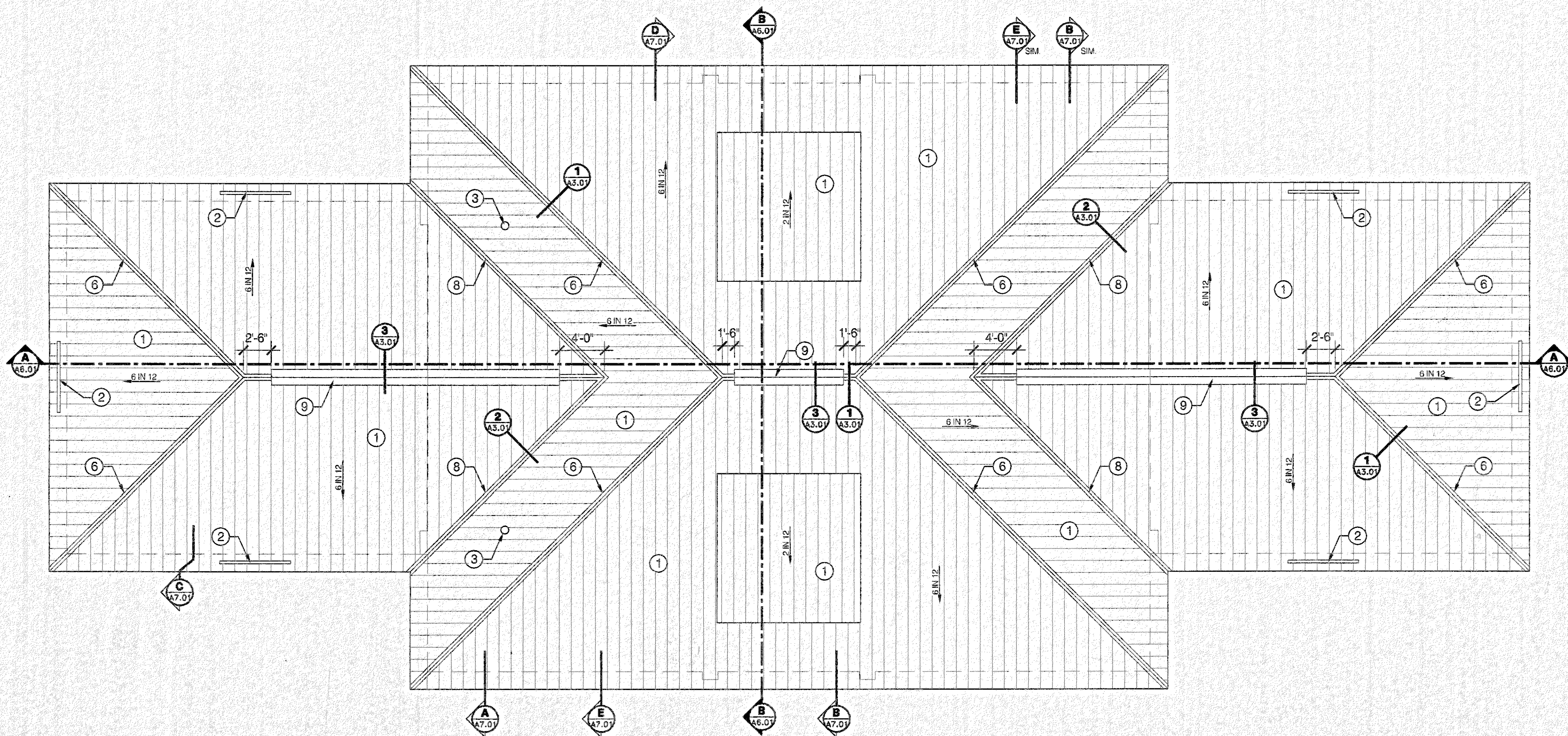


**3 ROOF DETAIL**

A3.01 SCALE: 3" = 1'-0"

**KEYNOTE LEGEND:**

- 1 PREFINISHED STANDING SEAM METAL ROOF SYSTEM
- 2 RAIN DIVERTER
- 3 NOT USED
- 4 NOT USED
- 5 NOT USED
- 6 HIP RIDGE
- 7 RIDGE
- 8 VALLEY
- 9 RIDGE VENT



**ROOF PLAN**

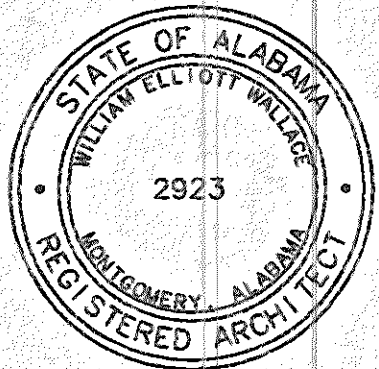
SCALE: 3/16" = 1'-0"



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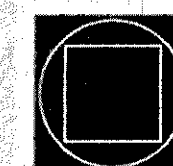
drawn by: CLT  
**ROOF PLAN- TENNIS**

**A3.01**  
sheet 14 of 34



# KEYNOTE LEGEND:

- ① PREFINISHED STANDING SEAM METAL ROOF SYSTEM
- ② RAIN DIVERTER
- ③ NOT USED.
- ④ NOT USED.
- ⑤ NOT USED.
- ⑥ HIP RIDGE
- ⑦ RIDGE
- ⑧ VALLEY
- ⑨ RIDGE VENT



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&  
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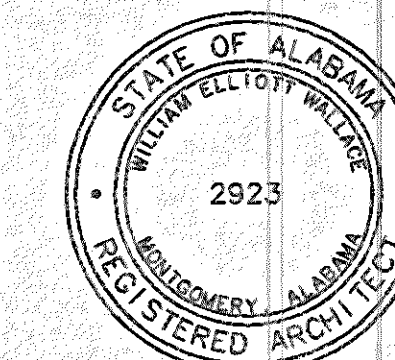
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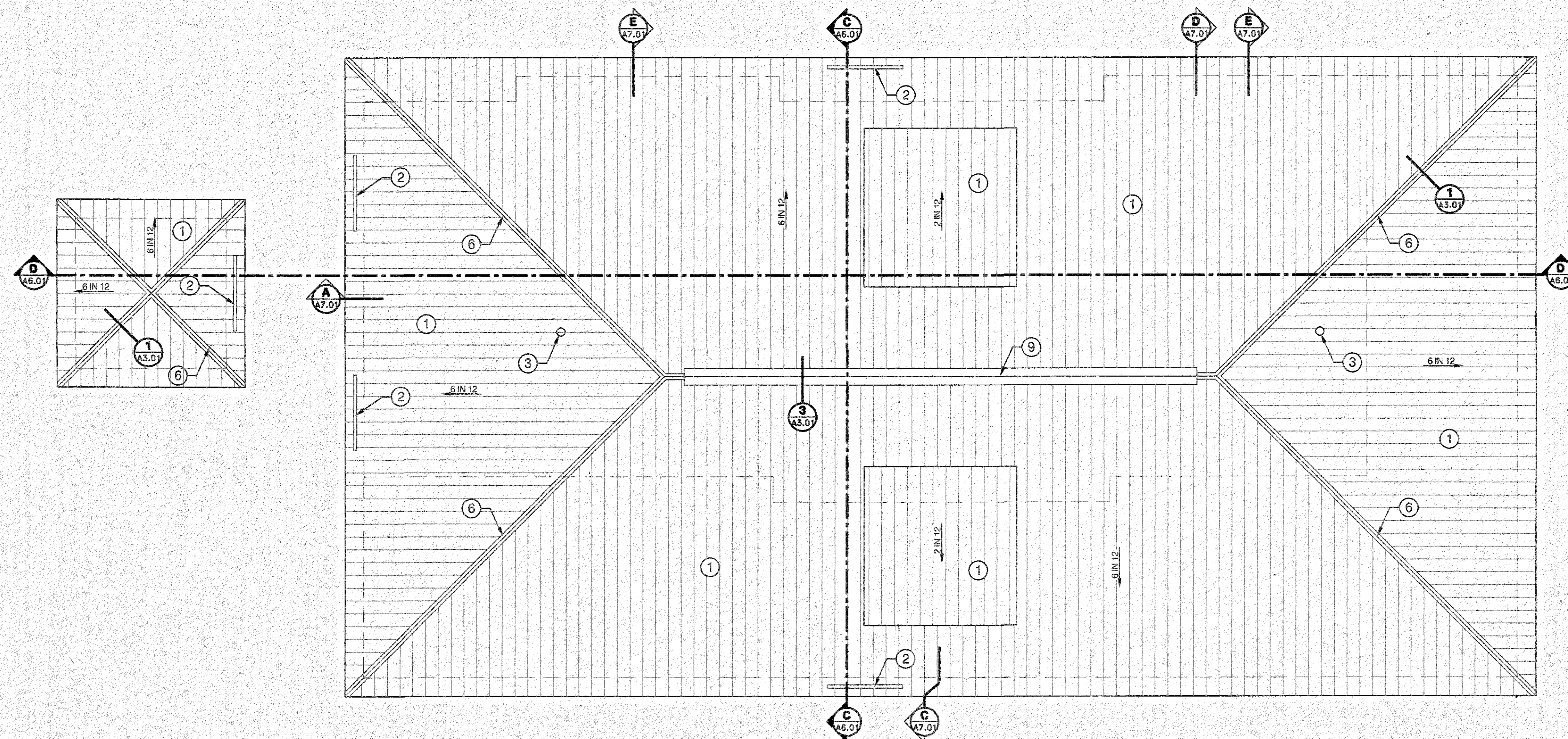
Construction Dwg. 7/27/01

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**ROOF PLAN-  
POOL**

**A3.02**

sheet 15 of 34



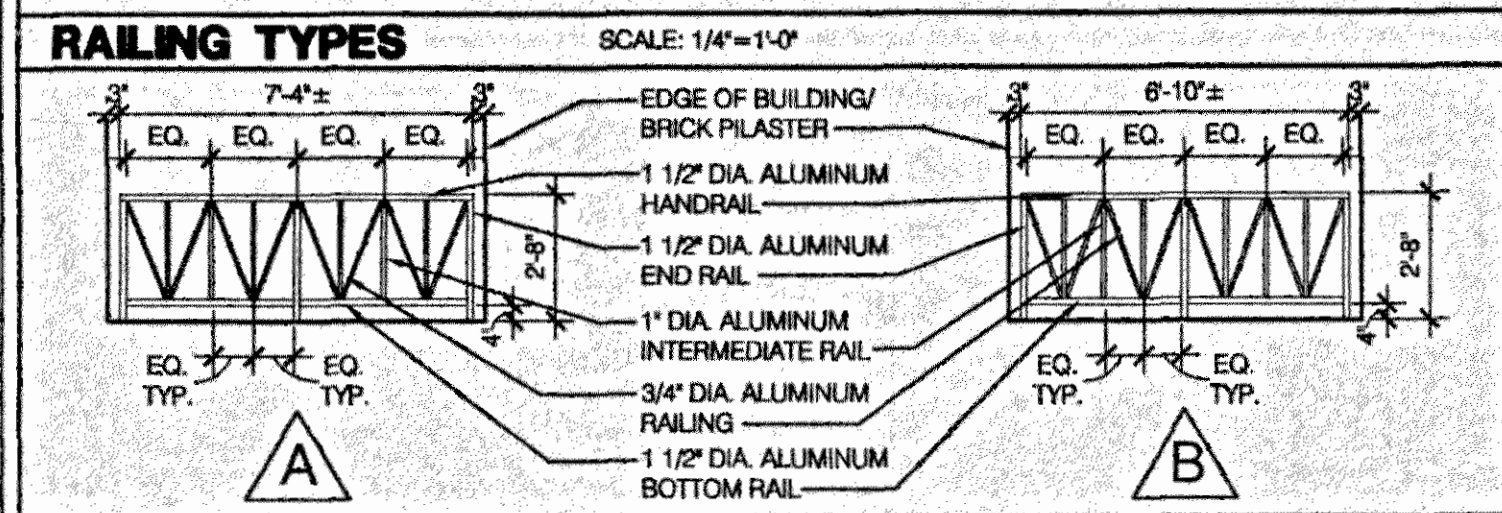
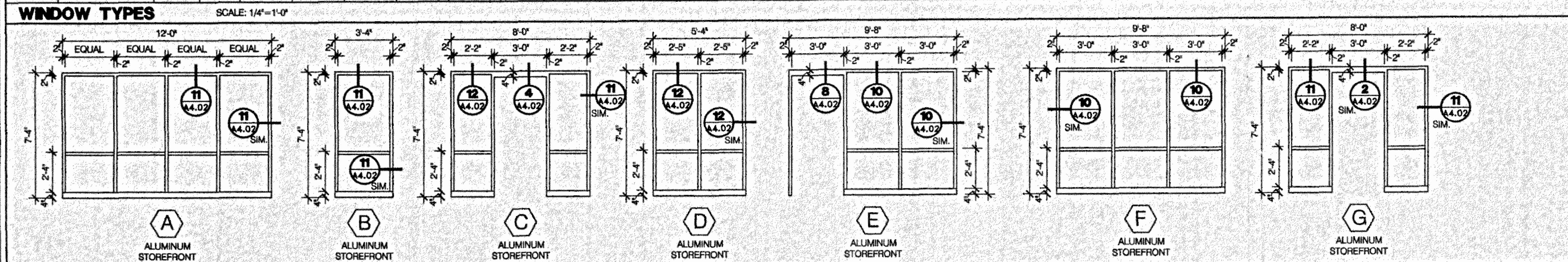
**ROOF PLAN**

SCALE: 3/16" = 1'-0"

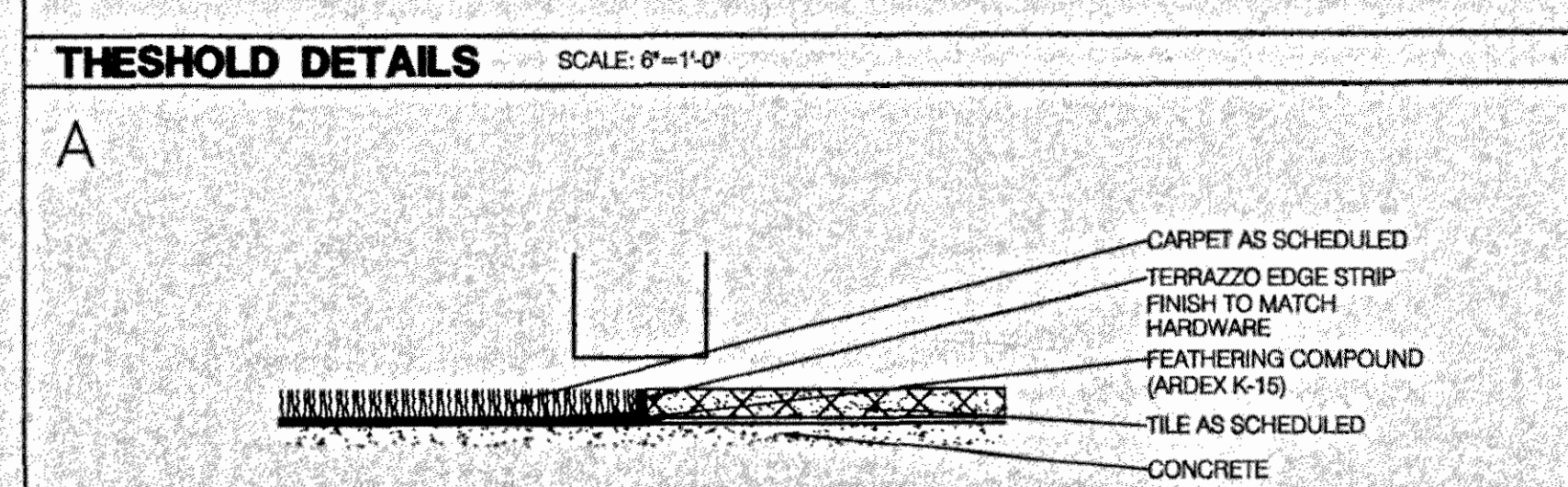
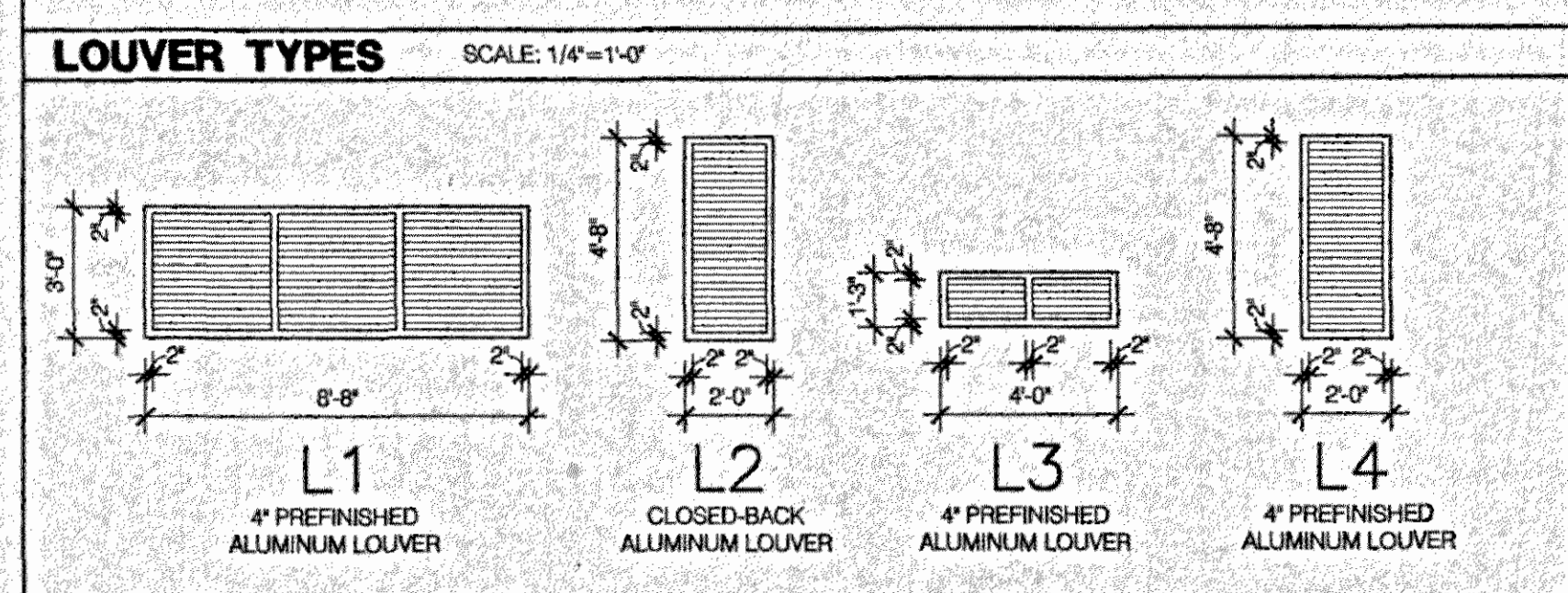
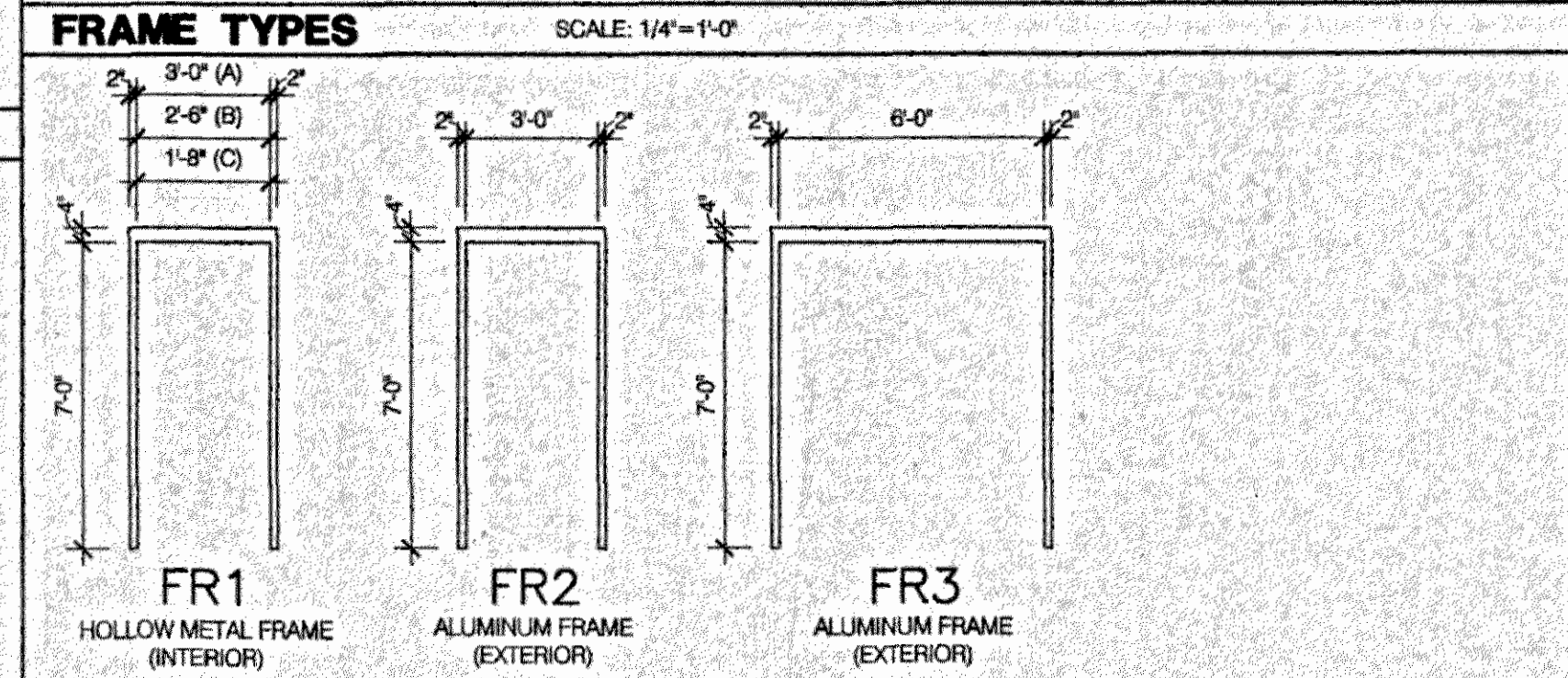
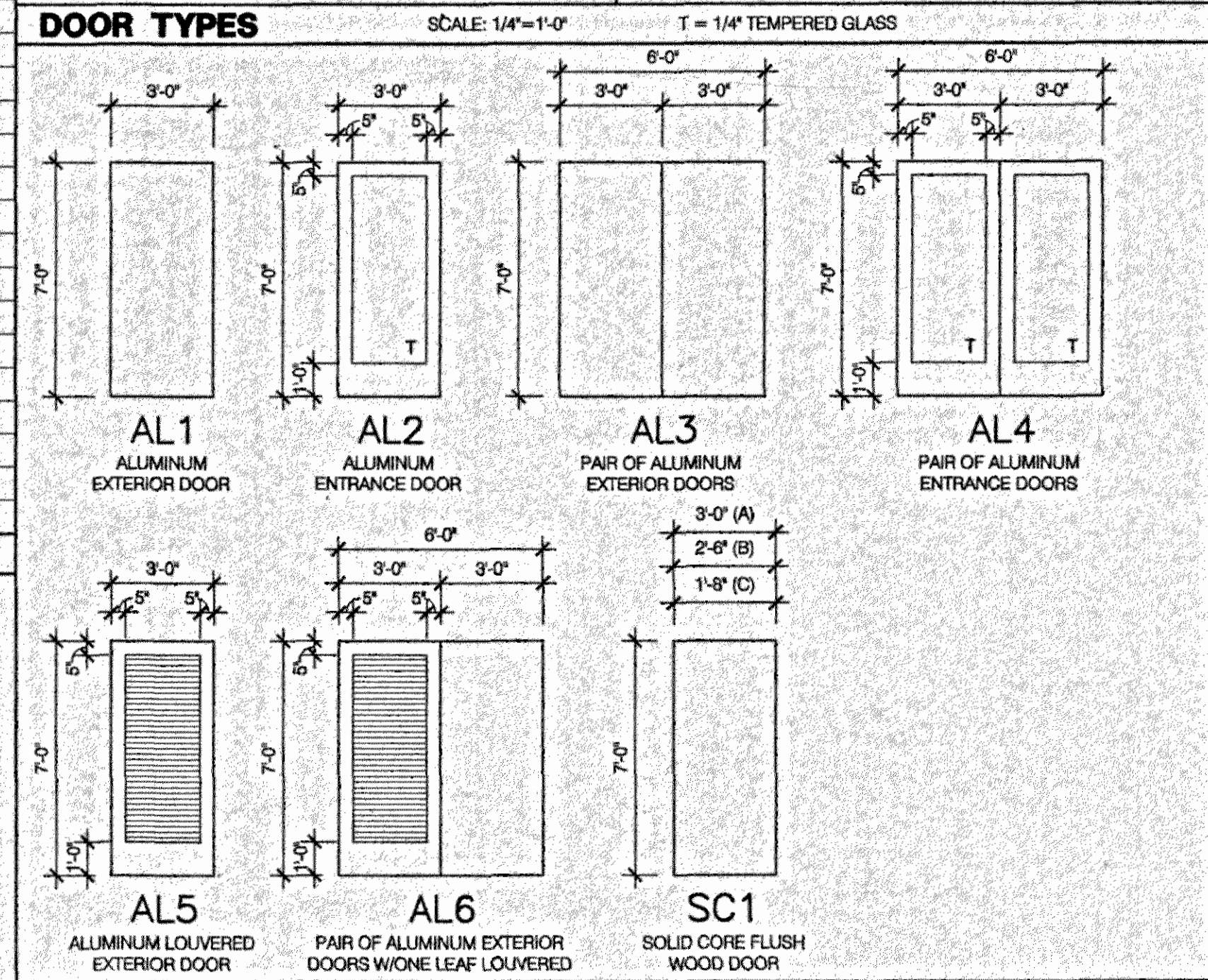




FINISH SCHEDULE														DOOR SCHEDULE													
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE TYPE	NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING MATERIAL	CLG HGT	NOTES	DOORS NUMBER	DOOR TYPE	FRAME TYPE	FIRE RATING	HARDWARE SET NO.	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	FINISH		NOTES		
				MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH												DOOR	FRAME			
TENNIS BUILDING														TENNIS BUILDING													
100	EQUIP. STORAGE	CONC	-	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	GB	10'-0"	-	100	AL5	FR2	-	6	4/A4.02	3/A4.02	-	FF	FF	-		
101	VESTIBULE	CT	WB	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	LAC-2	8'-0"	-	101	AL2	FR2	-	1	4/A4.02	-	9/A4.02 SIM.	FF	FF	1		
102	MECH./ELECT.	CONC	-	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	GB	10'-0"	-	102	AL1	FR2	-	6	4/A4.02	3/A4.02	-	FF	FF	-		
103	WOMENS TOILET	CT	CT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	LAC-1	9'-0"	1	104	SC1A	FR1A	-	2	6/A4.02	5/A4.02	-	STAIN	PNT	-		
104	ANTE	CT	CT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	MRGB	9'-6"	-	105	SC1B	FR1B	-	4	2/A4.02 SIM.	1/A4.02 SIM.	-	STAIN	PNT	-		
105	CLOSET	CT	WB	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	LAC-1	8'-0"	-	106	AL2	-	-	1	2/A4.02 SIM.	-	9/A4.02	FF	FF	1		
106	ANTE	CT	WB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	LAC-2	8'-0"	-	107	SC1B	FR1B	-	4	2/A4.02 SIM.	1/A4.02 SIM.	-	STAIN	PNT	-		
107	JANITOR	CT	WB	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	LAC-1	8'-0"	-	108	SC1A	FR1A	-	2	6/A4.02	5/A4.02	-	STAIN	PNT	-		
108	ANTE	CT	CT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	MRGB	9'-6"	-	111	AL2	-	-	1	2/A4.02	-	9/A4.02 SIM.	FF	FF	1		
109	MENS TOILET	CT	CT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	LAC-1	9'-0"	1	113	SC1B	FR1B	-	4	8/A4.02	8/A4.02 SIM.	-	STAIN	PNT	-		
110	LOUNGE	CPT-1	WB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	LAC-2	9'-0"	-	114	AL2	-	-	1	8/A4.02	8/A4.02 SIM.	-	FF	FF	2		
111	SALES	CPT-1	WB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	LAC-2	9'-0"	2	115	SC1B	FR1B	-	4	8/A4.02	8/A4.02 SIM.	-	STAIN	PNT	-		
112	OBSERVATION	CPT-1	WB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	LAC-2	9'-0"	-													
113	WORK ROOM	CPT-1	WB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	LAC-2	9'-0"	-													
114	OFFICE	CPT-1	WB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	LAC-2	9'-0"	-													
115	CLOSET	CPT-1	WB	GB	PNT	GB	PNT	GB	PNT	GB	PNT	LAC-2	9'-0"	-													
POOL BUILDING														POOL BUILDING													
															100a	AL4	FR3	-	1	4/A4.02	3/A4.02	9/A4.02 SIM.	FF	FF	-		
															100b	AL4	FR3	-	1	4/A4.02	3/A4.02	9/A4.02 SIM.	FF	FF	-		
															102	SC1A	FR1A	-	3	6/A4.02	5/A4.02	-	STAIN	PNT	-		
100	LOBBY	CONC	CT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	LAC-1	9'-0"	-	103a	AL1	FR2	-	5	4/A4.02	3/A4.02	9/A4.02 SIM.	FF	FF	-		
101	OBSERVATION	CONC	CT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	LAC-1	9'-0"	-	103b	SC1C	FR1C	-	4	7/A4.02 SIM.	7/A4.02	-	STAIN	PNT	-		
102	ANTE	CONC	CT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	LAC-1	9'-0"	-	104	SC1A	FR1A	-	3	7/A4.02 SIM.	7/A4.02	-	STAIN	PNT	-		
103	WOMENS TOILET	CONC	CT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	LAC-1	9'-0"	1	105	SC1A	FR1A	-	3	6/A4.02	5/A4.02	-	STAIN	PNT	-		
104	WOMENS LOCKER	CONC	CT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	LAC-1/MRGB	9'-0"	1	106a	AL1	FR2	-	5	4/A4.02	3/A4.02	9/A4.02 SIM.	FF	FF	-		
105	ANTE	CONC	CT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	LAC-1	9'-0"	-	106b	SC1C	FR1C	-	4	7/A4.02 SIM.	7/A4.02	-	STAIN	PNT	-		
106	MENS TOILET	CONC	CT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	LAC-1	9'-0"	1	107	SC1A	FR1A	-	3	7/A4.02 SIM.	7/A4.02	-	STAIN	PNT	-		
107	MENS LOCKER	CONC	CT	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	LAC-1/MRGB	9'-0"	1	108	AL1	FR2	-	6	4/A4.02	3/A4.02	9/A4.02 SIM.	FF	FF	-		
108	MECH/ELECT.	CONC	-	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	GB	10'-0"	-	109	AL6	FR3	-	7	4/A4.02	3/A4.02	9/A4.02 SIM.	FF	FF	-		
109	POOL SUPPLIES	CONC	-	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	GB	10'-0"	-	110	AL1	FR2	-	6	4/A4.02	3/A4.02	9/A4.02 SIM.	FF	FF	-		
110	EXT. POOL SUPPLIES	CONC	-	CMU	PNT	CMU	PNT	CMU	PNT	CMU	PNT	GB	10'-0"	-													



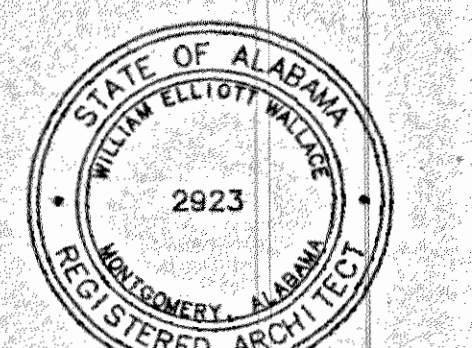
FINISH SCHEDULE ABBREVIATIONS														FINISH SCHEDULE NOTES											
VCT	- VINYL COMPOSITION TILE																								
CT	- CERAMIC TILE (SEE SPECS.)																								
GB	- GYPSUM BOARD																								
MRGB	- MOISTURE RESISTANT GYPSUM BOARD																								
CPT-1	- CARPET																								
CPT-2	- CARPET TILES																								
WB	- WOOD BASE #8716 BY WOODWORKING DYNAMICS OR EQUIVALENT																								
LAC-1	- LAY-IN ACOUSTICAL CEILING TILE AND GRID SYSTEM TYPE 1 - SEE SPECIFICATIONS																								
LAC-2	- LAY-IN ACOUSTICAL CEILING TILE AND GRID SYSTEM TYPE 2 - SEE SPECIFICATIONS																								
CONC	- CONCRETE W/SEALER																								
DOOR SCHEDULE ABBREVIATIONS														DOOR SCHEDULE NOTES											
ALUM	- ALUMINUM																								
HM	- HOLLOW METAL																								
SC	- SOLID CORE WOOD																								
SF	- STOREFRONT																								
FR	- FRAME																								
SIM	- SIMILAR																								
STAIN	- STAIN																								
PNT	- PAINT																								
FF	- FACTORY FINISH																								



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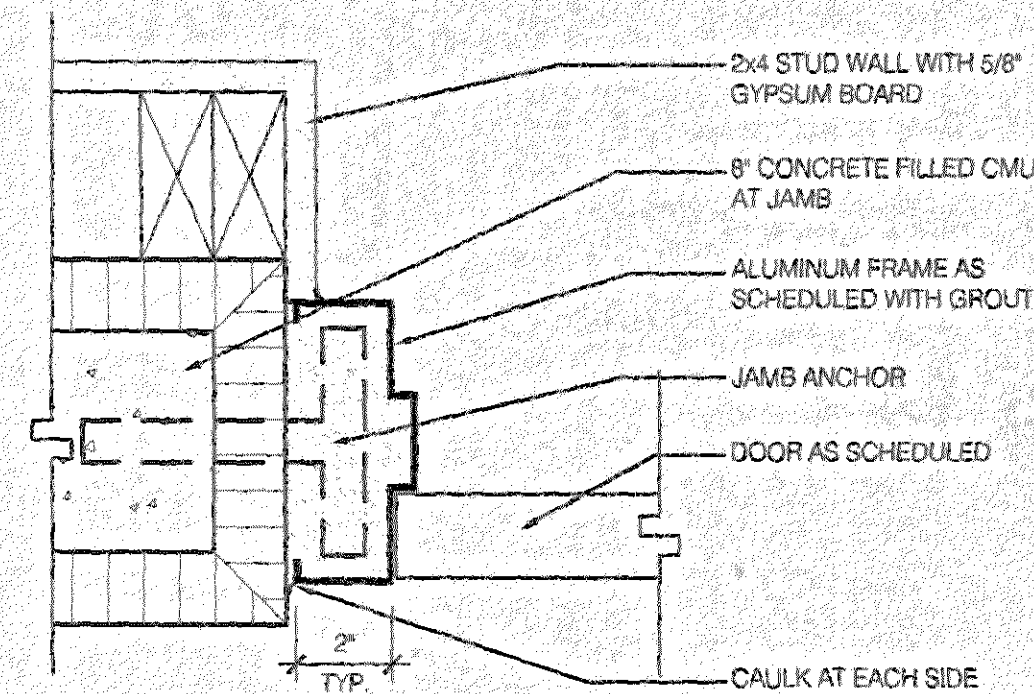
**Issue date**  
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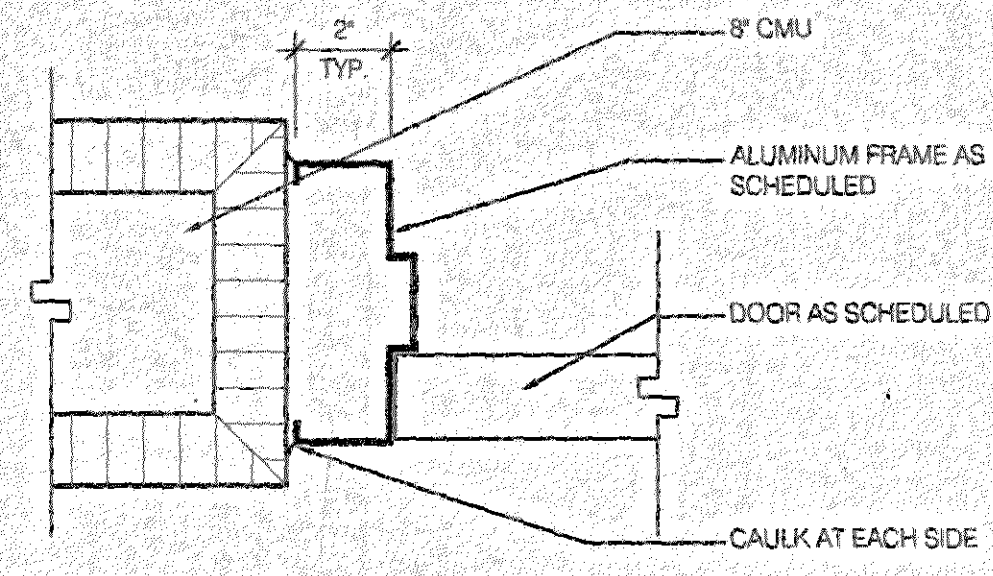
**FINISH SCHEDULE, DOOR SCHEDULE, AND DETAILS**

**A4.01**  
sheet 16 of 34

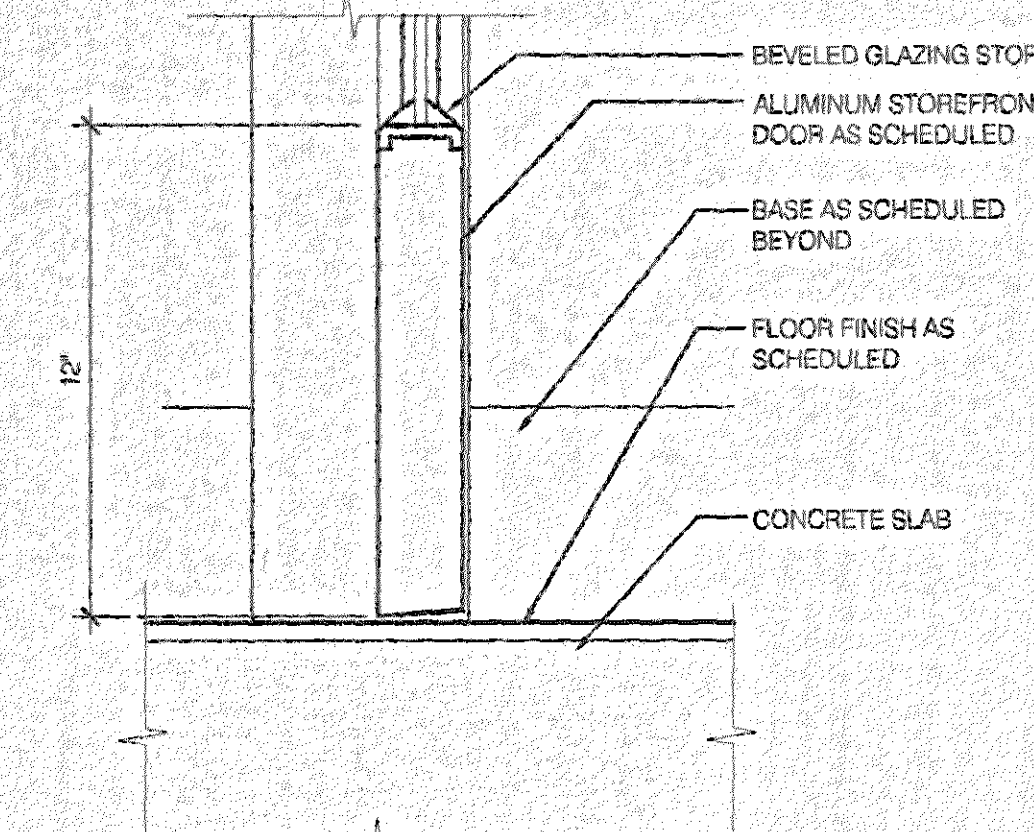




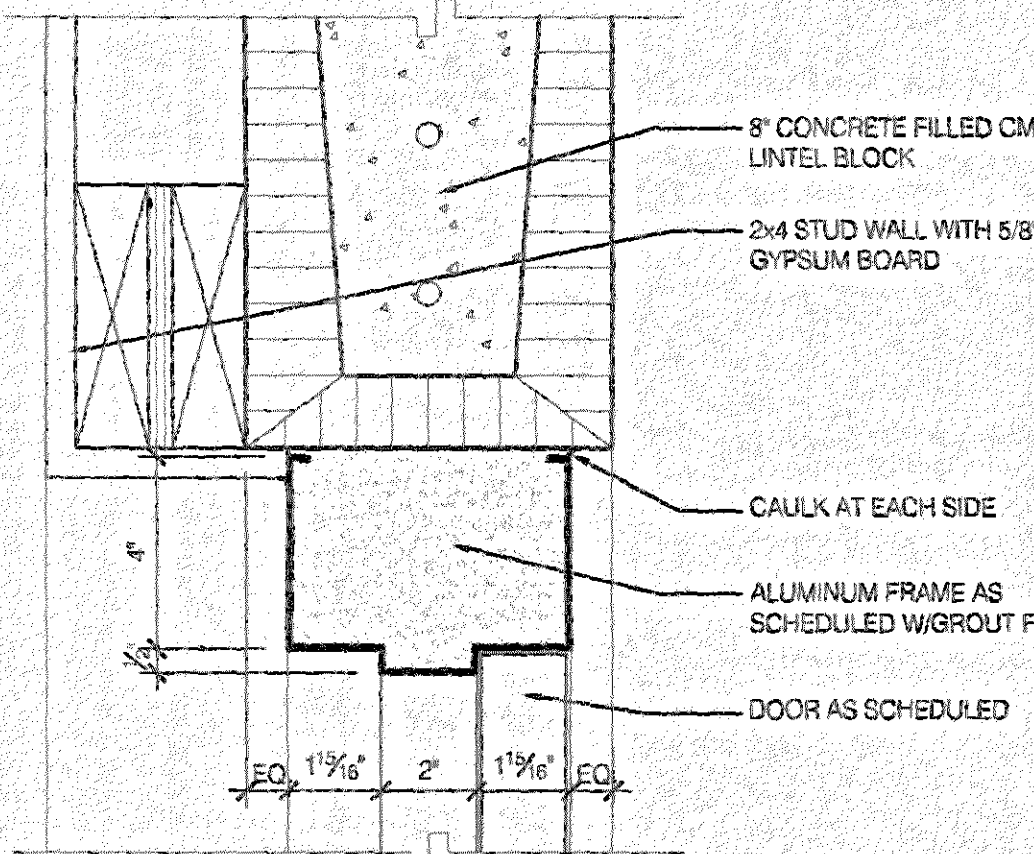
**1 DETAIL** JAMB  
A4.02 SCALE: 3" = 1'-0"



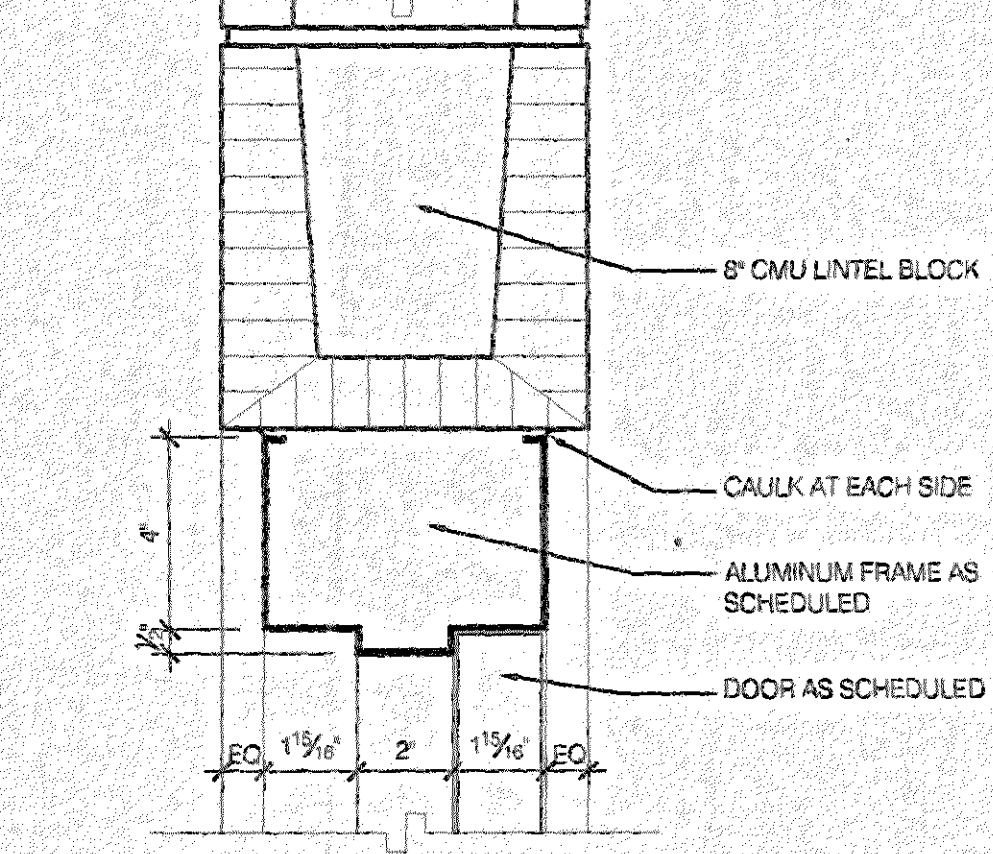
**5 DETAIL** JAMB  
A4.02 SCALE: 3" = 1'-0"



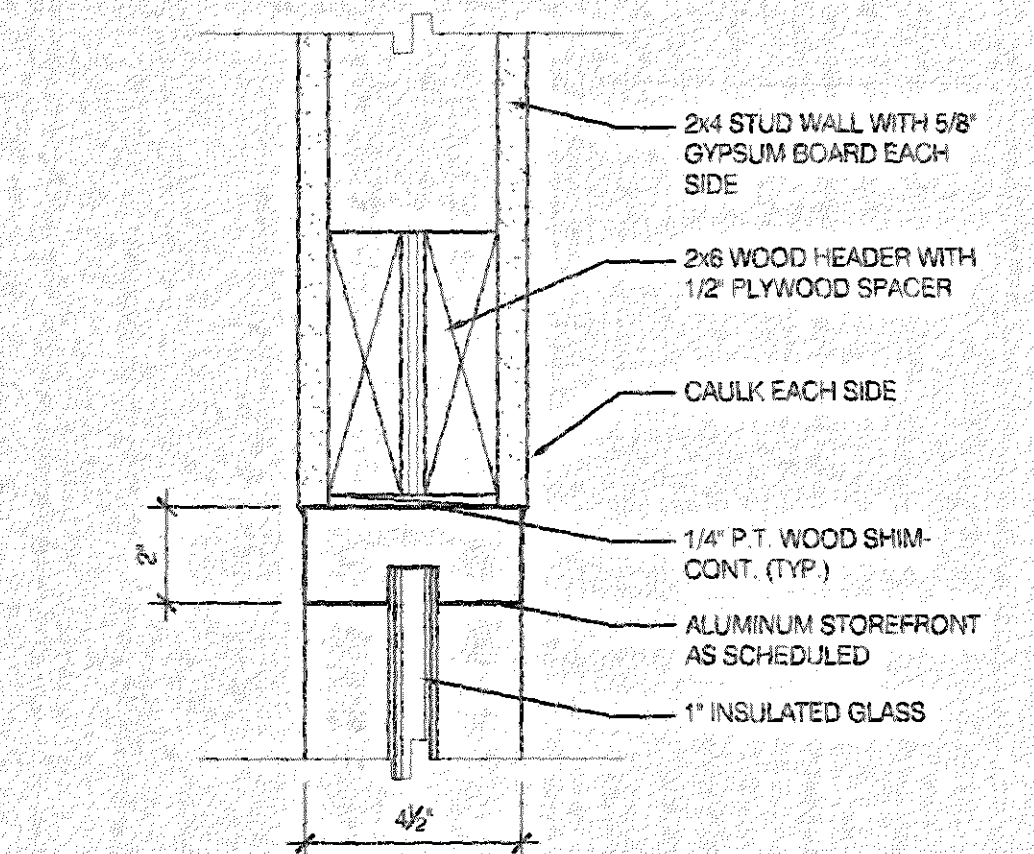
**9 DETAIL** SILL  
A4.02 SCALE: 3" = 1'-0"



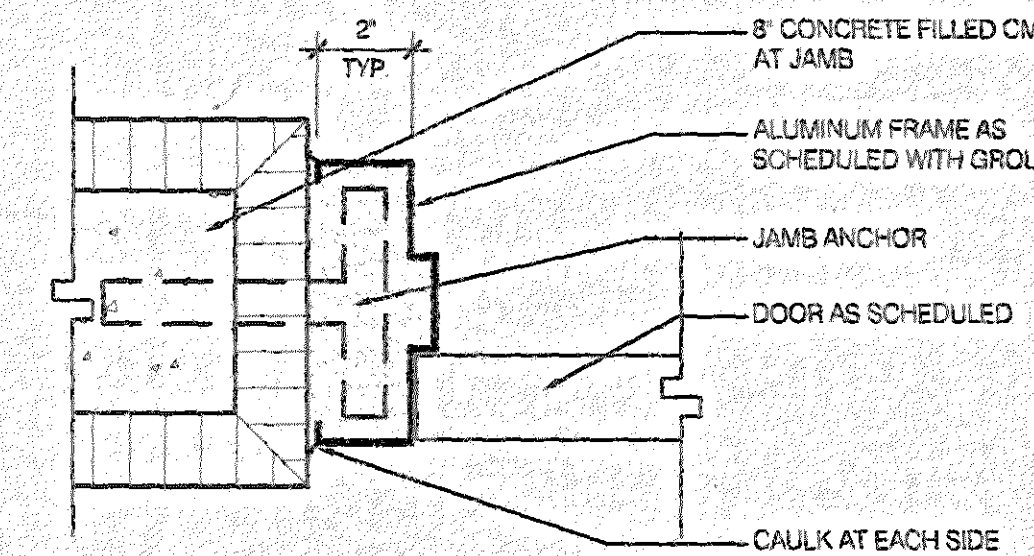
**2 DETAIL** HEAD  
A4.02 SCALE: 3" = 1'-0"



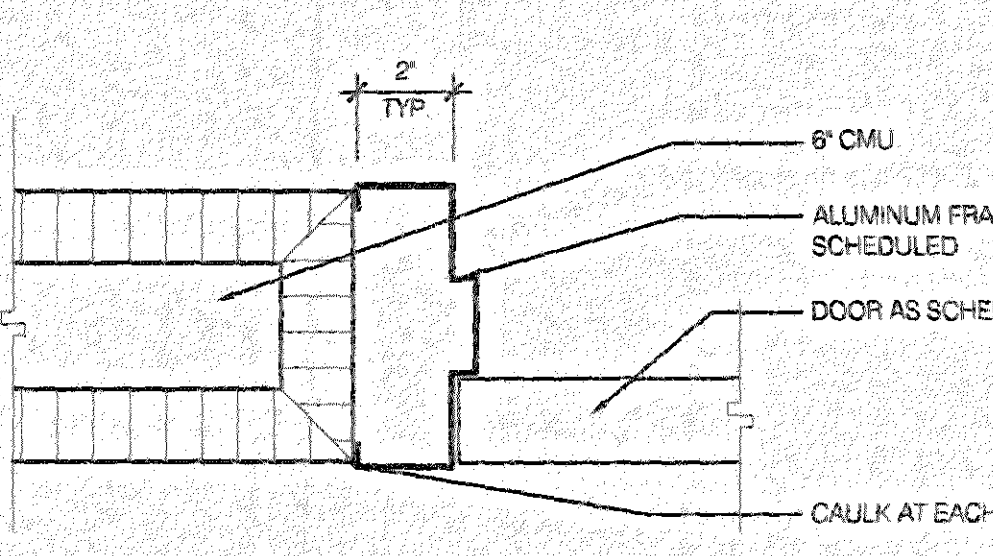
**6 DETAIL** HEAD  
A4.02 SCALE: 3" = 1'-0"



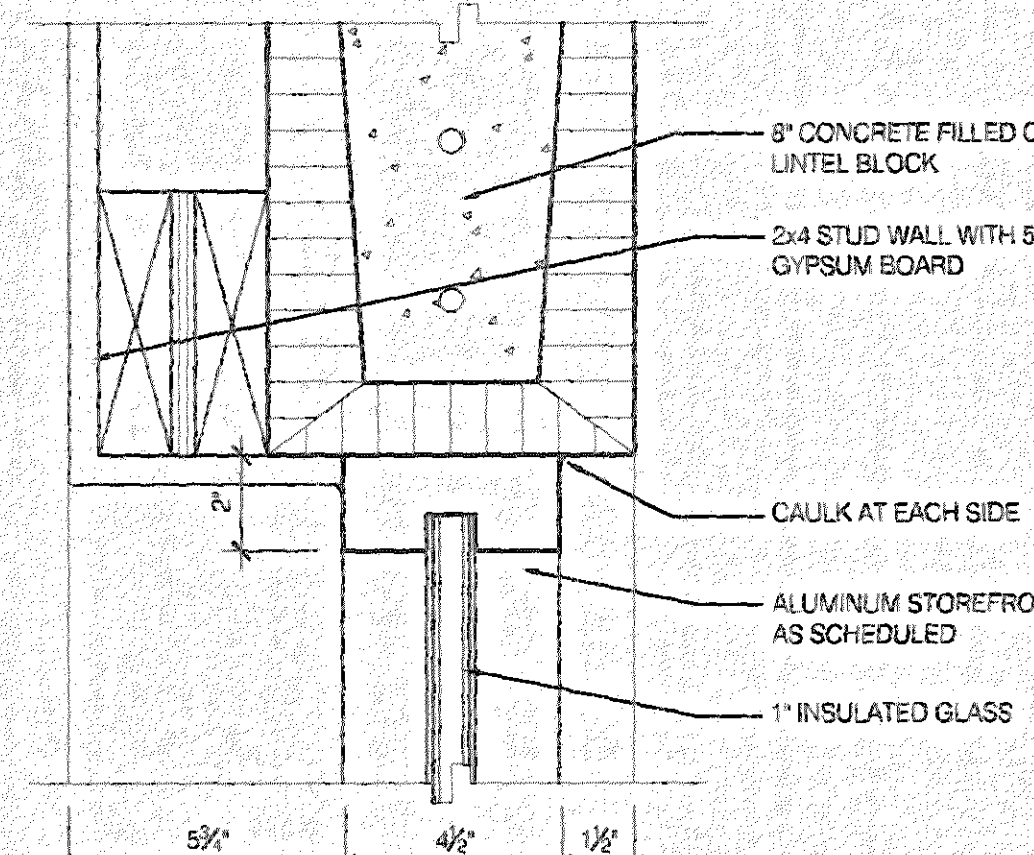
**10 DETAIL** JAMB SIM.  
A4.02 SCALE: 3" = 1'-0"



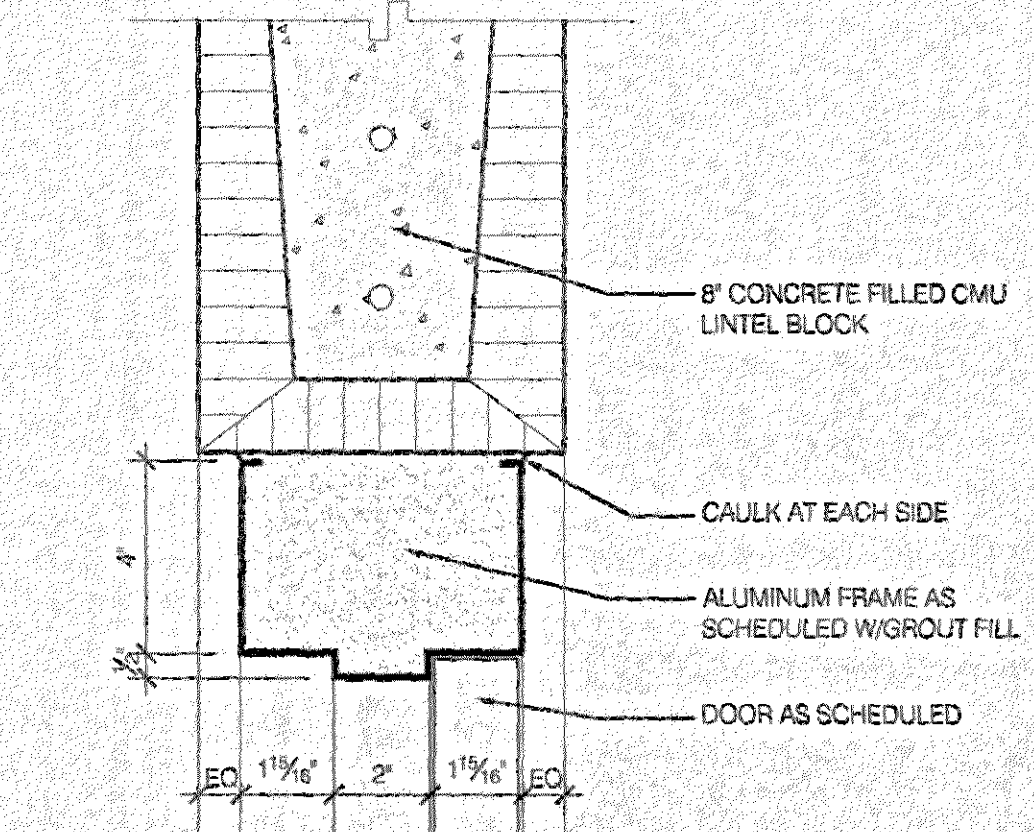
**3 DETAIL** JAMB  
A4.02 SCALE: 3" = 1'-0"



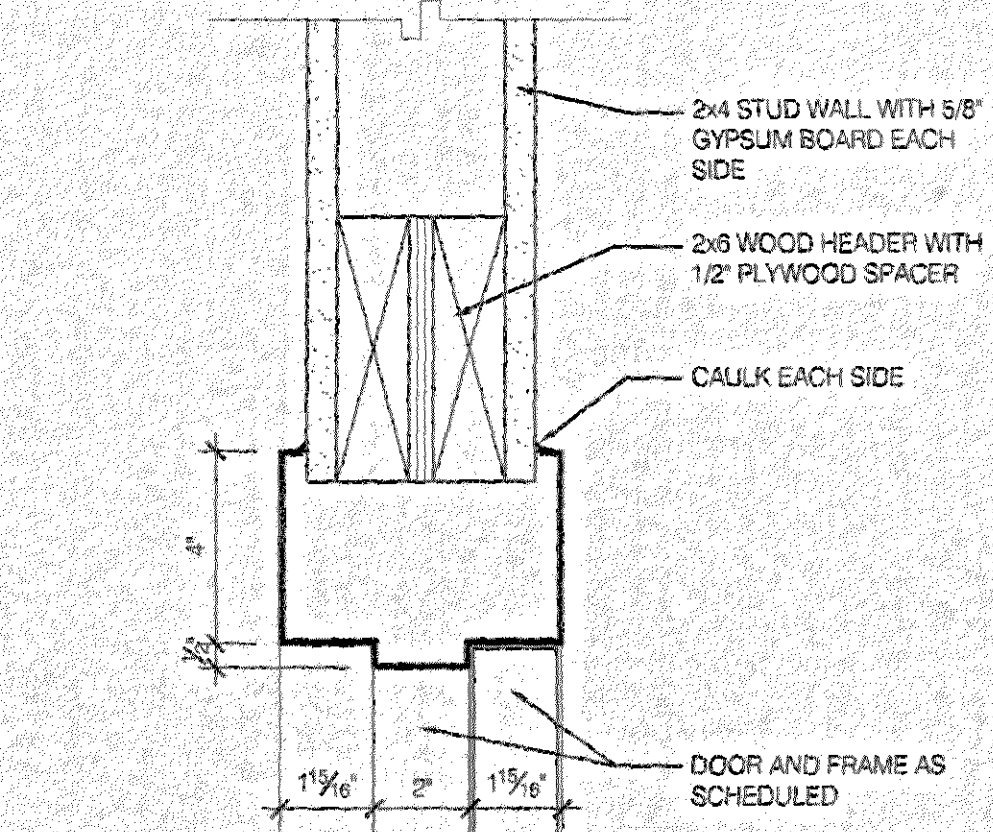
**7 DETAIL** HEAD SIM.  
A4.02 SCALE: 3" = 1'-0"



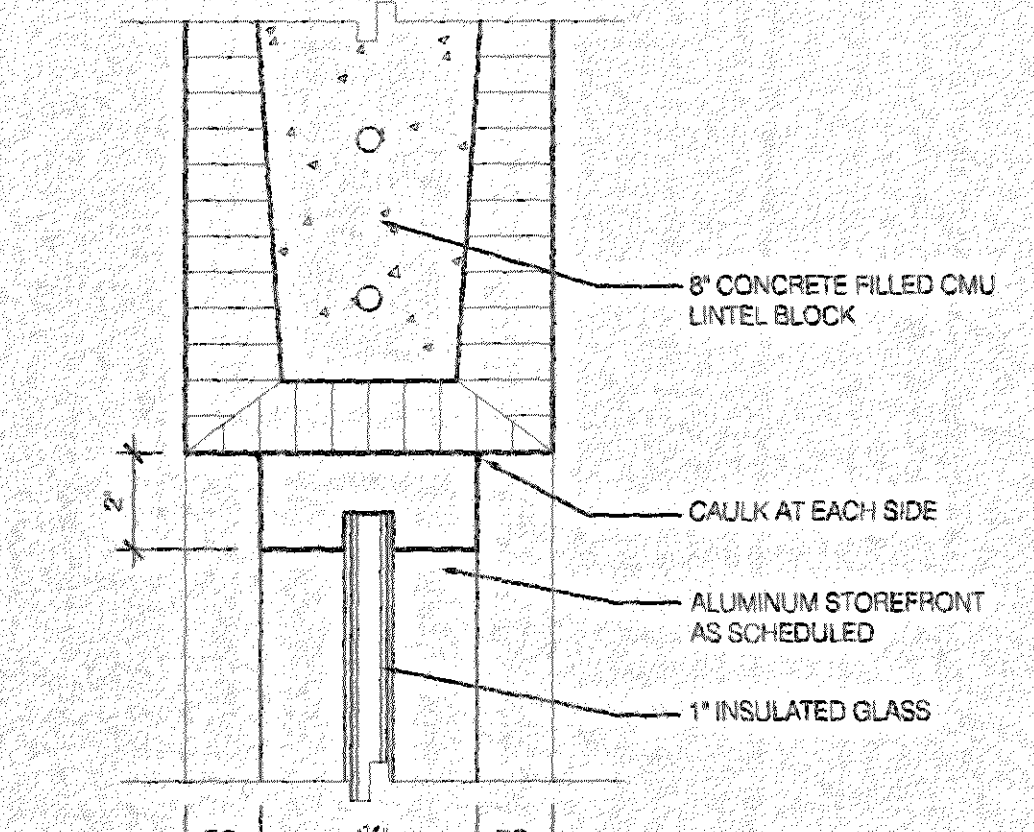
**11 DETAIL** HEAD JAMB SIM.  
A4.02 SCALE: 3" = 1'-0"



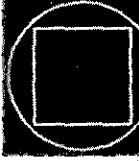
**4 DETAIL** HEAD  
A4.02 SCALE: 3" = 1'-0"



**8 DETAIL** HEAD JAMB SIM.  
A4.02 SCALE: 3" = 1'-0"



**12 DETAIL** HEAD JAMB SIM.  
A4.02 SCALE: 3" = 1'-0"

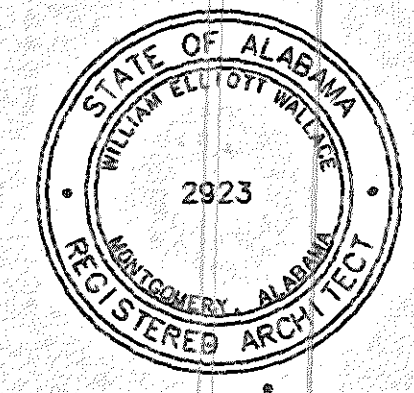


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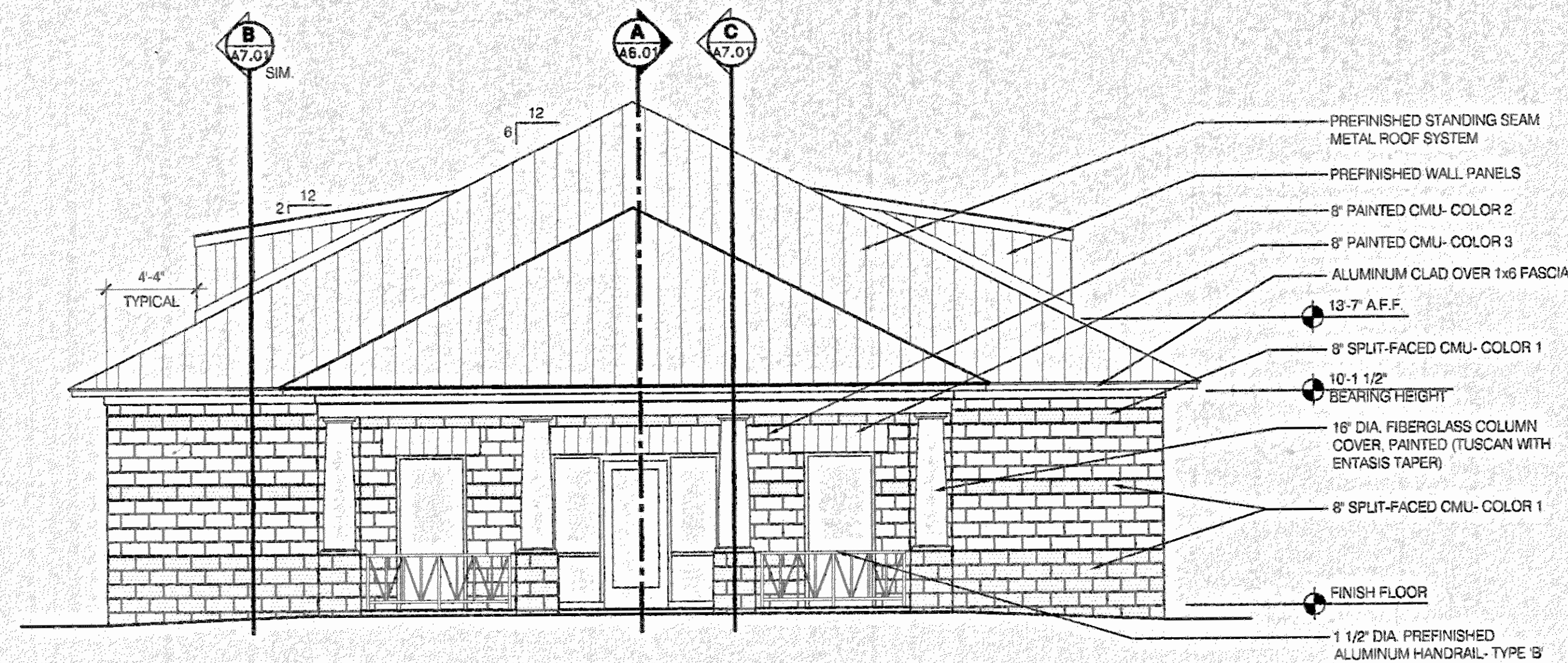


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Construction Divs 7/27/01

drawn by: CLT  
**DOOR AND  
WINDOW  
DETAILS**

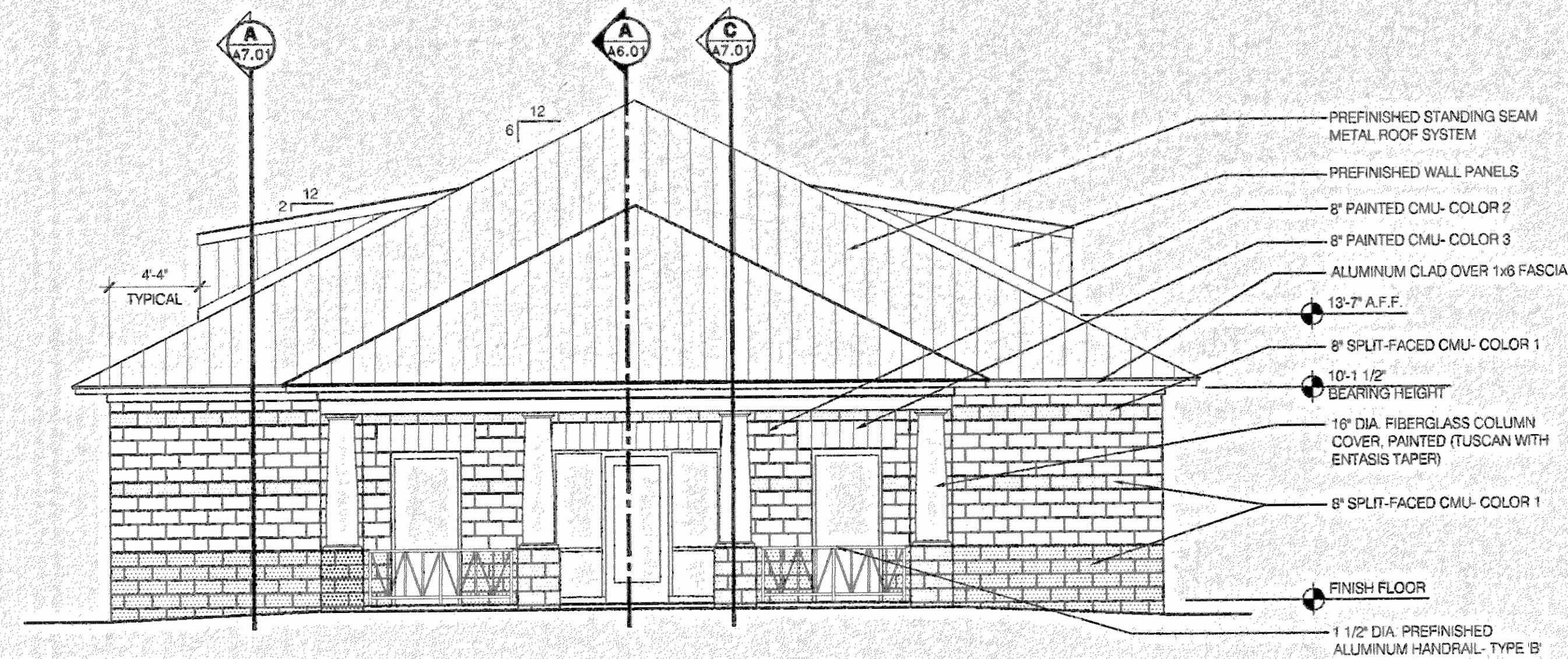
**A4.02**  
sheet 17 of 34





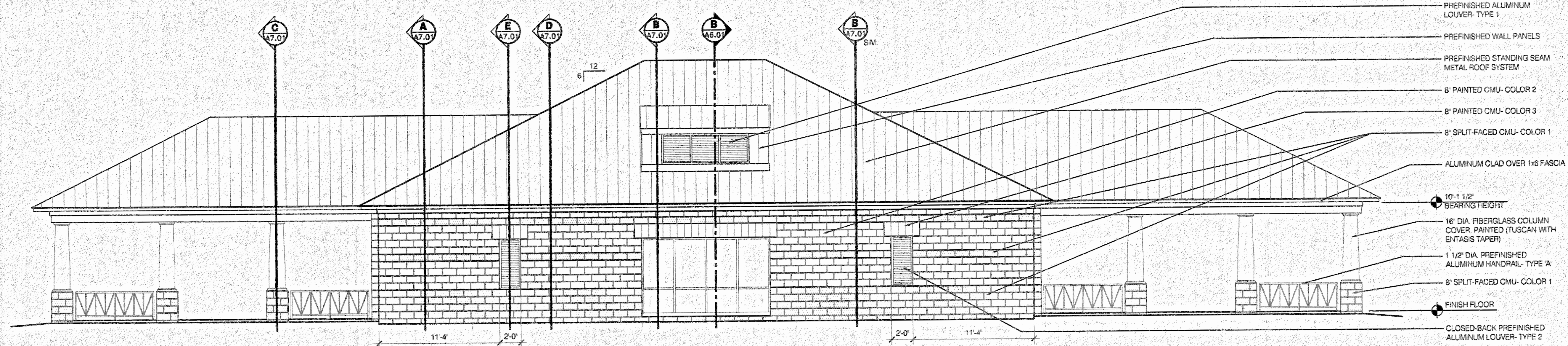
## EAST ELEVATION

SCALE: 3/16" = 1'-0"



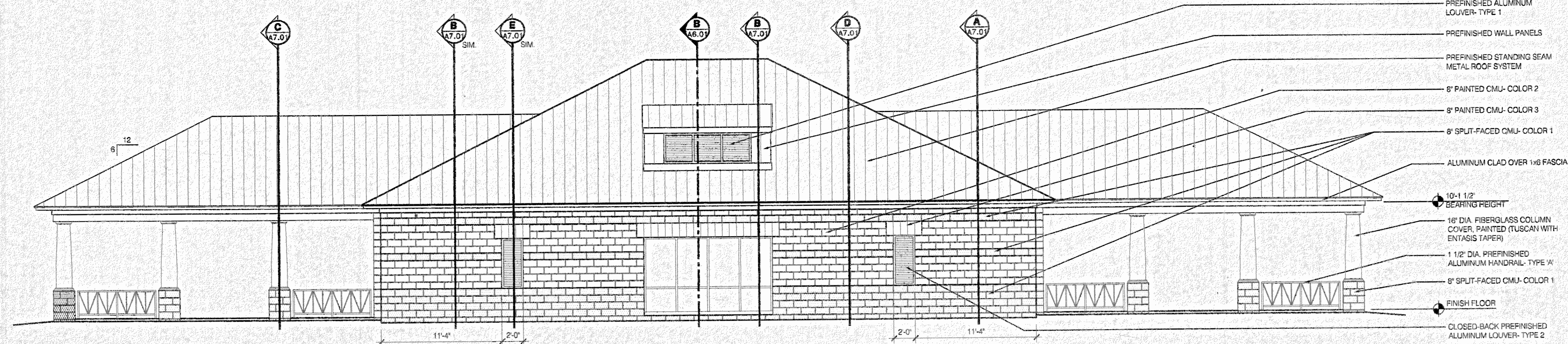
## WEST ELEVATION

SCALE: 3/16" = 1'-0"



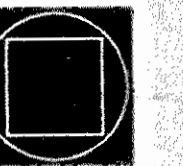
## NORTH ELEVATION

SCALE: 3/16" = 1'-0"



## SOUTH ELEVATION

SCALE: 3/16" = 1'-0"



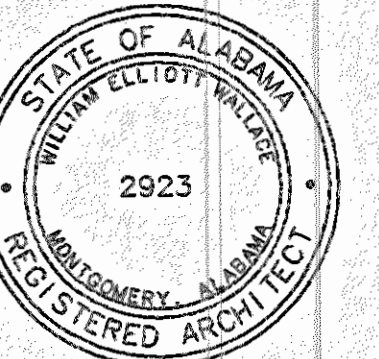
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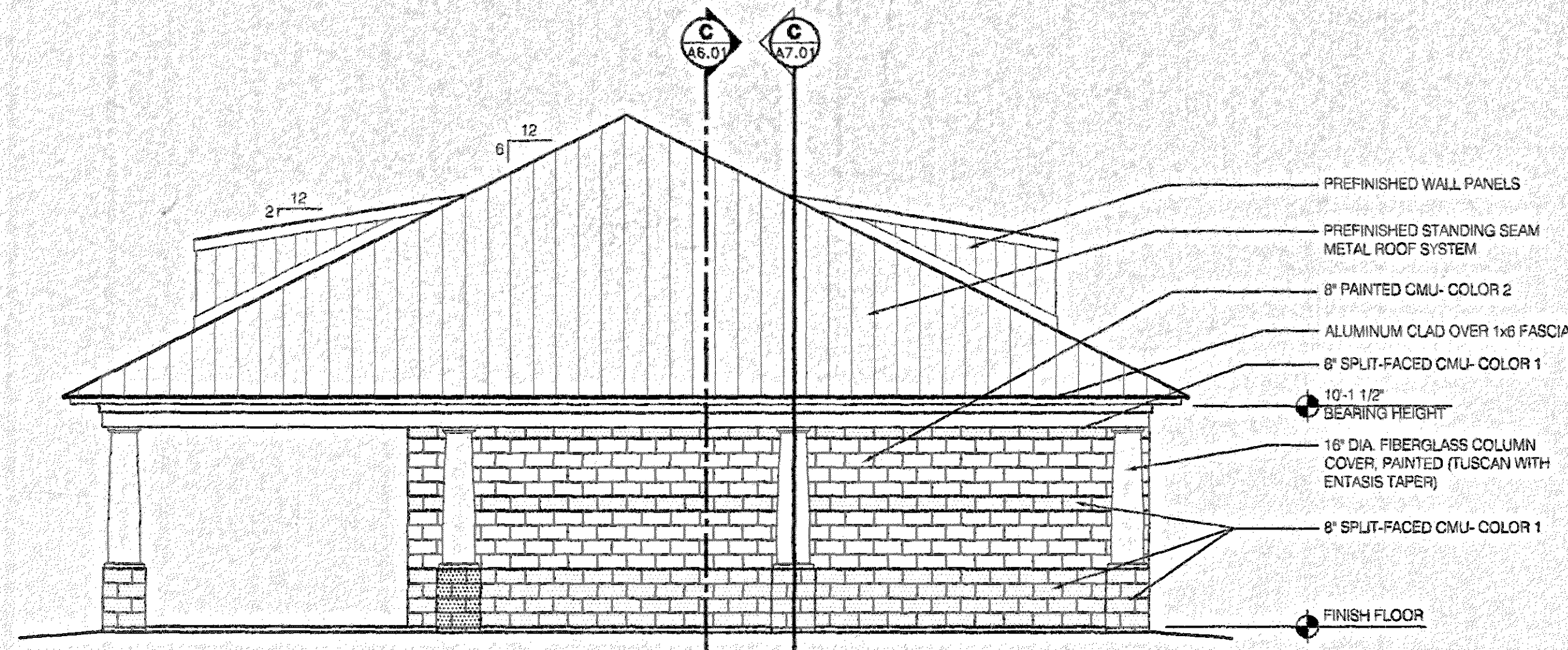
drawn by: CLT

**EXTERIOR  
ELEVATIONS-  
TENNIS**

**A5.01**

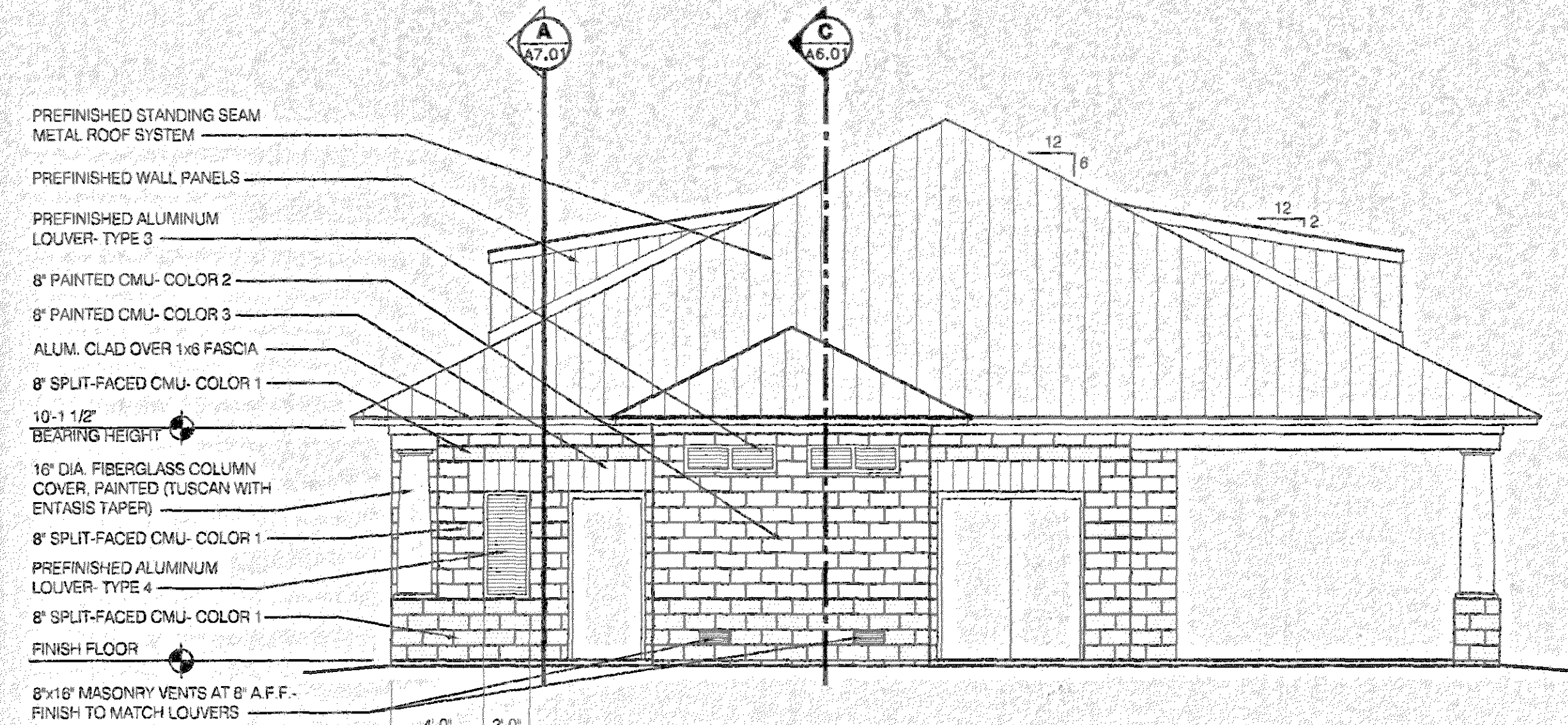
sheet 18 of 34





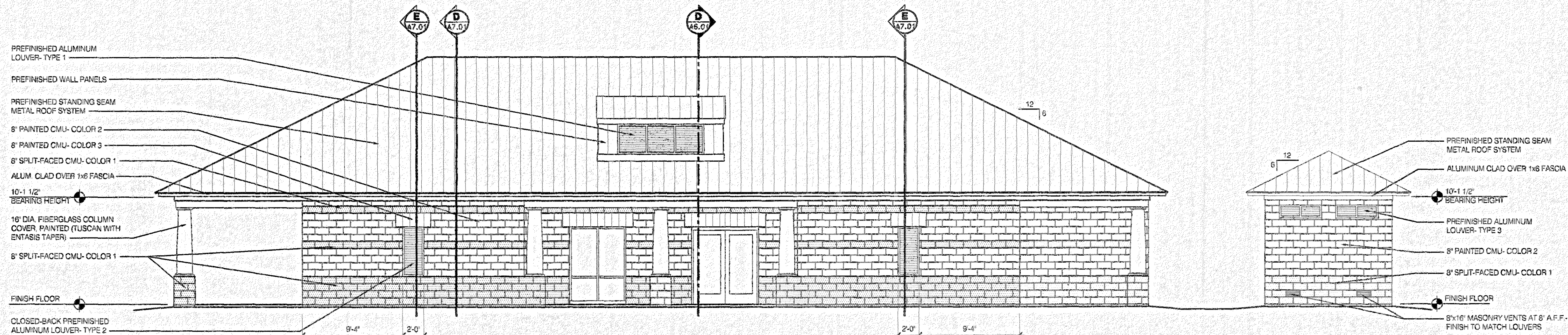
## SOUTH ELEVATION

SCALE: 3/16" = 1'-0"



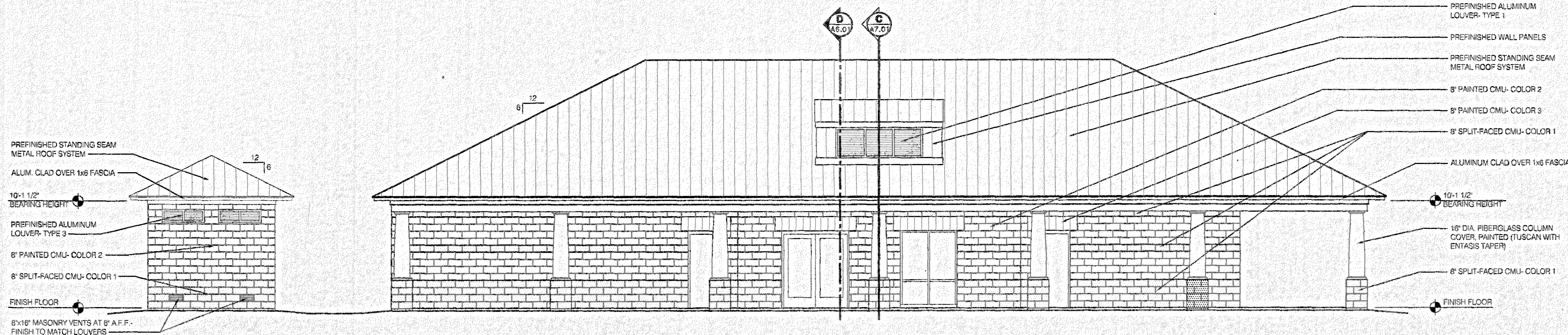
## NORTH ELEVATION

SCALE: 3/16" = 1'-0"



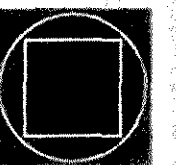
## EAST ELEVATION

SCALE: 3/16" = 1'-0"



## WEST ELEVATION

SCALE: 3/16" = 1'-0"



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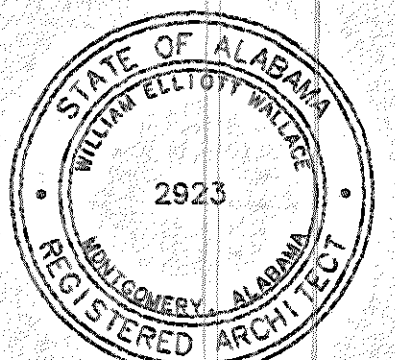
126 Interstate Park Drive, P.O. Box 3605  
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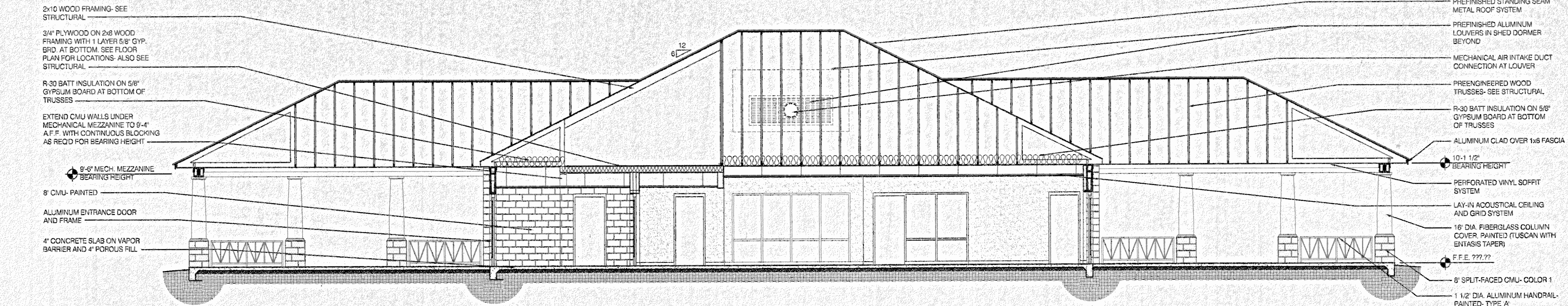
**Issue date**  
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**EXTERIOR  
ELEVATIONS-  
POOL**

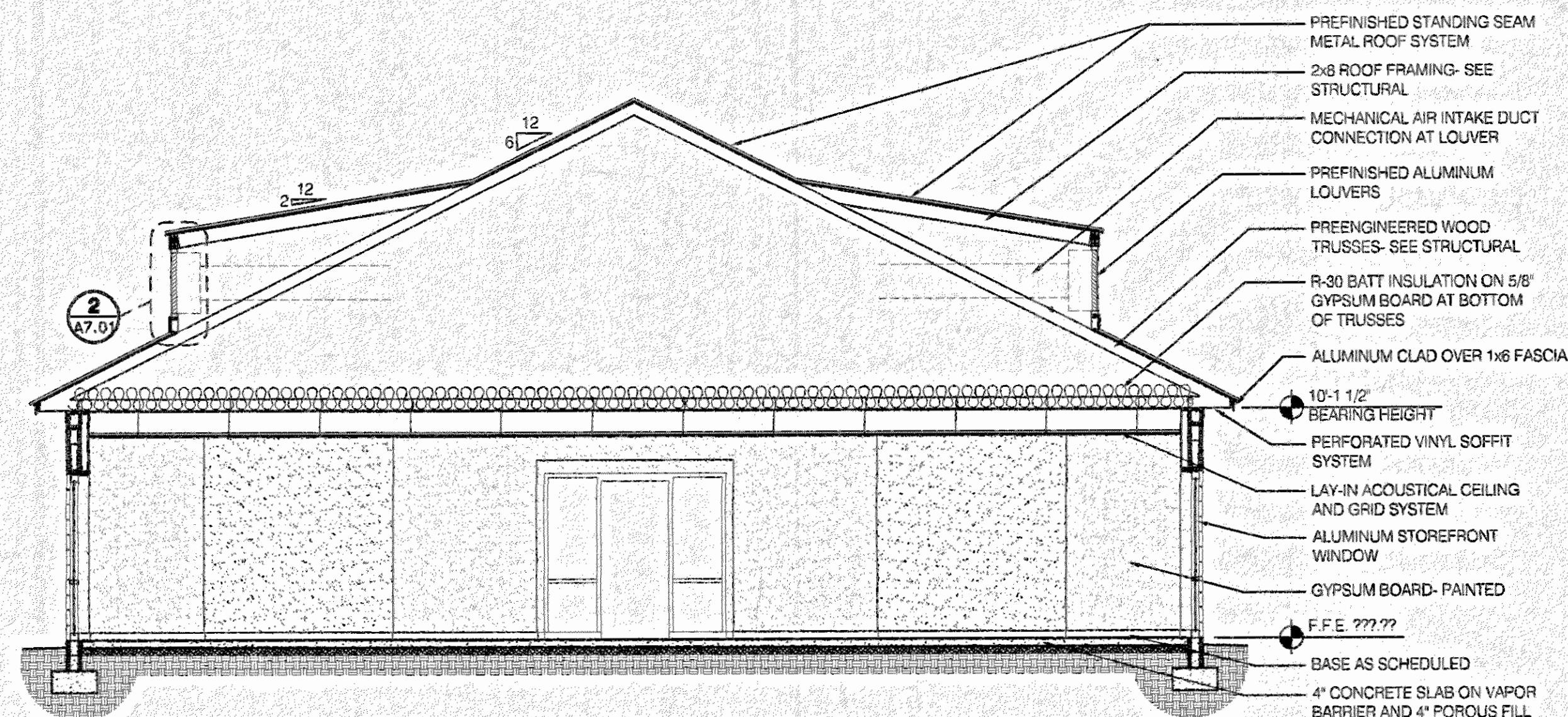
**A5.02**  
sheet 19 of 34





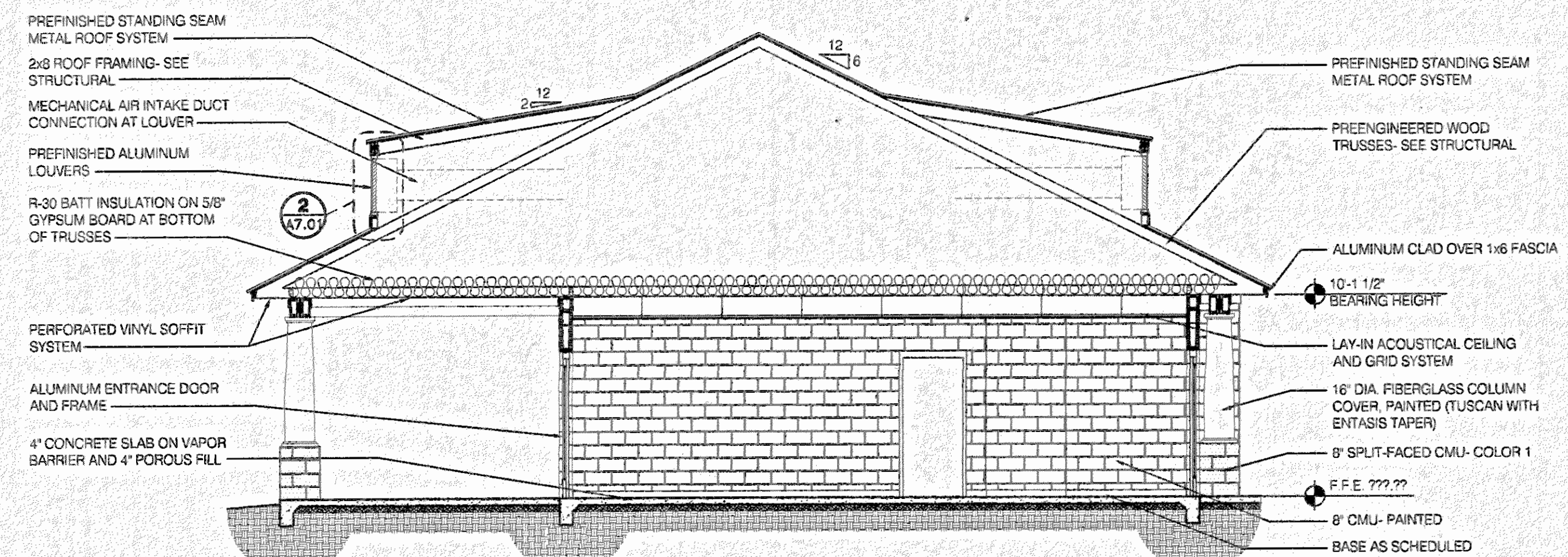
## A WALL SECTION

A6.01 SCALE: 3/16" = 1'-0"



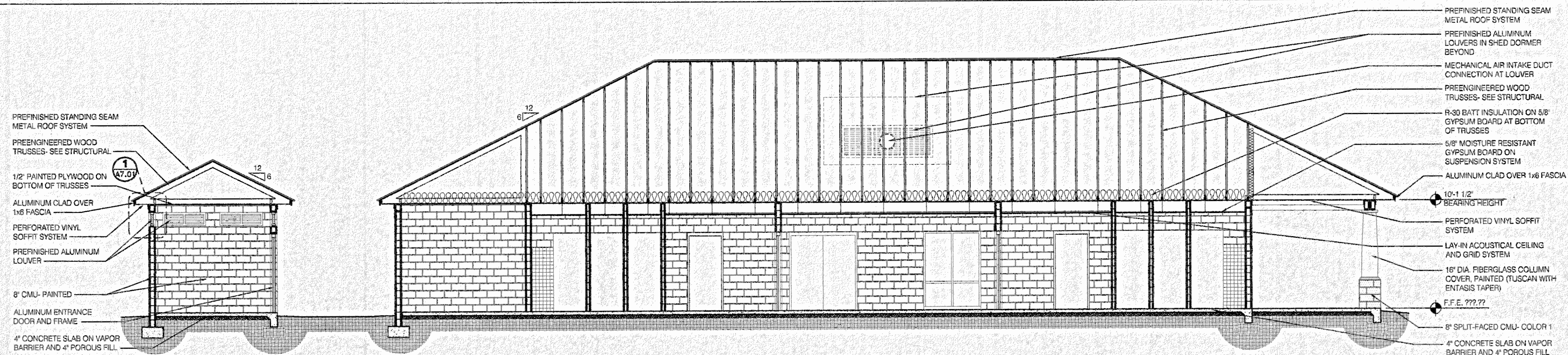
## B WALL SECTION

A6.01 SCALE: 3/16" = 1'-0"



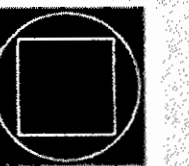
## C WALL SECTION

A6.01 SCALE: 3/16" = 1'-0"



## D WALL SECTION

A6.01 SCALE: 3/16" = 1'-0"



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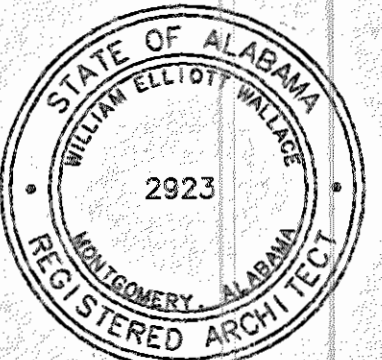
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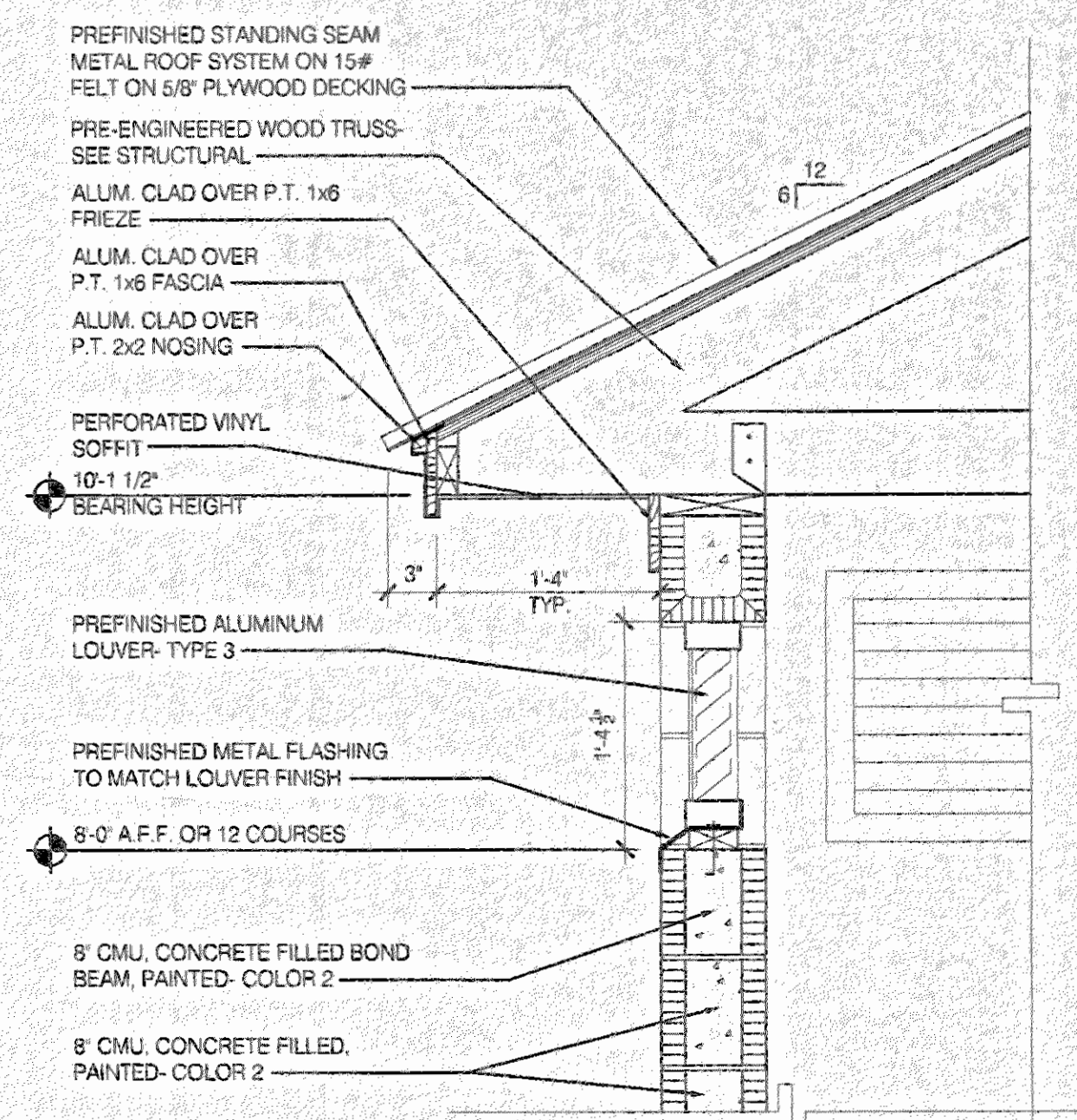
drawn by: CLT

BUILDING  
SECTIONS-  
TENNIS/POOL

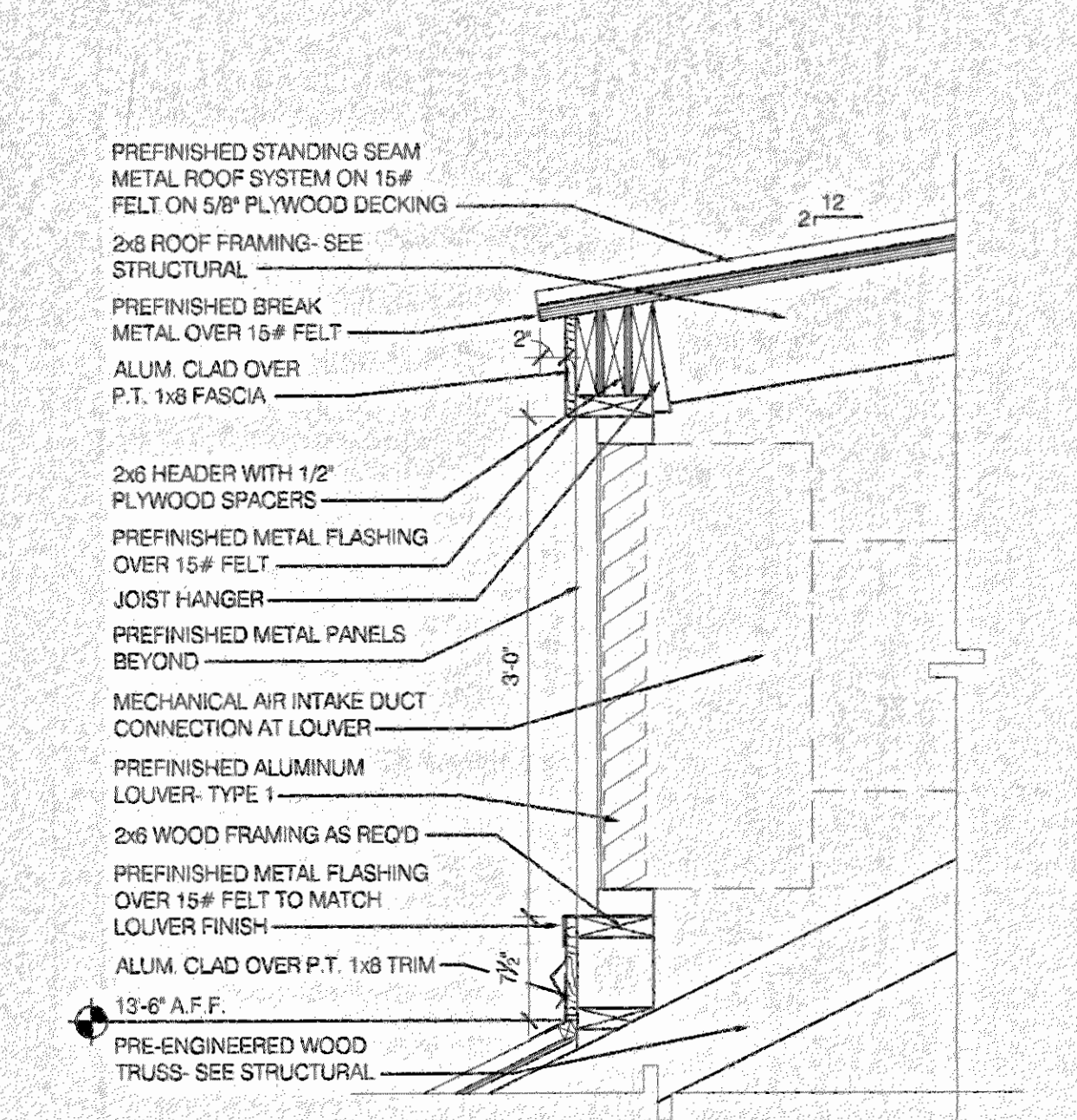
A6.01

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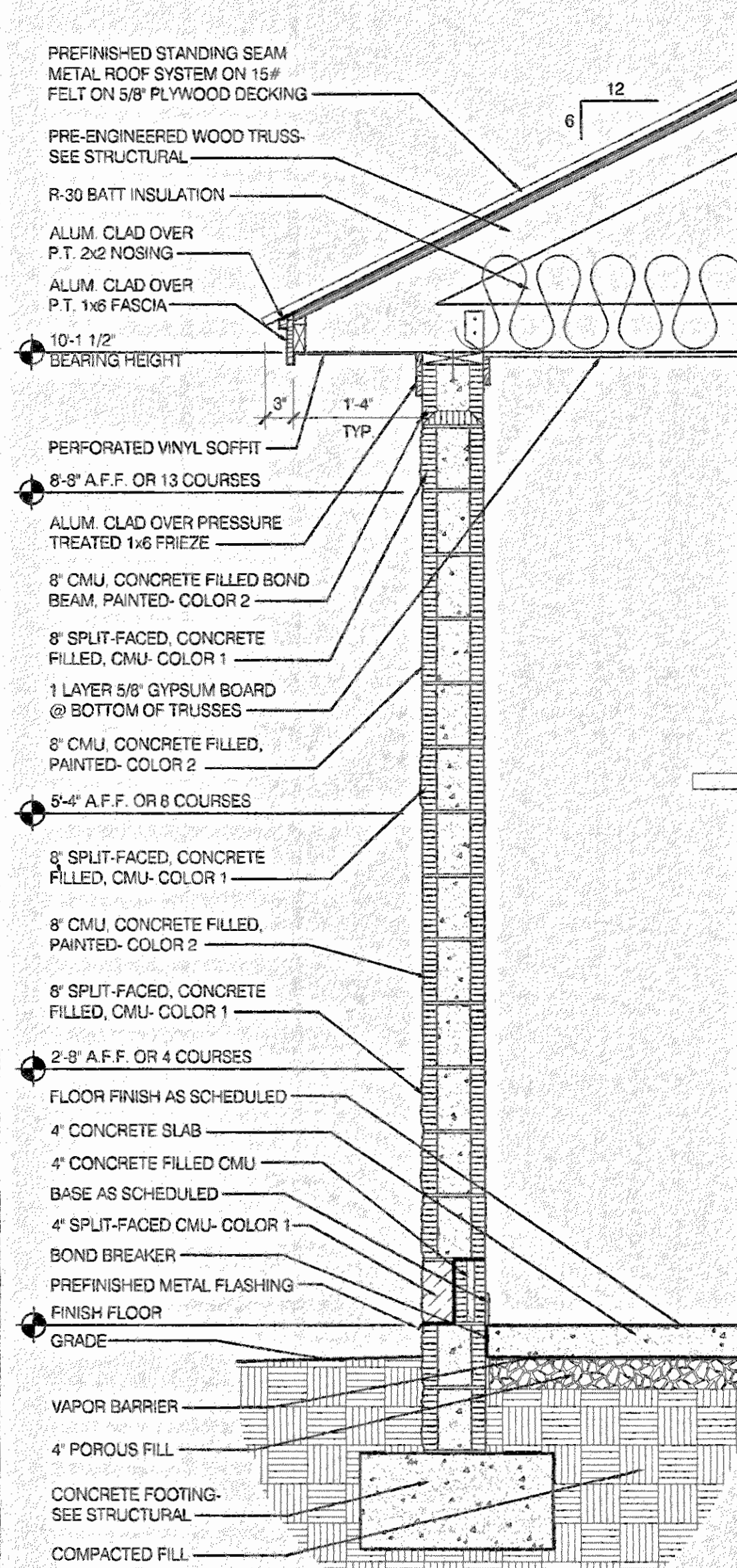




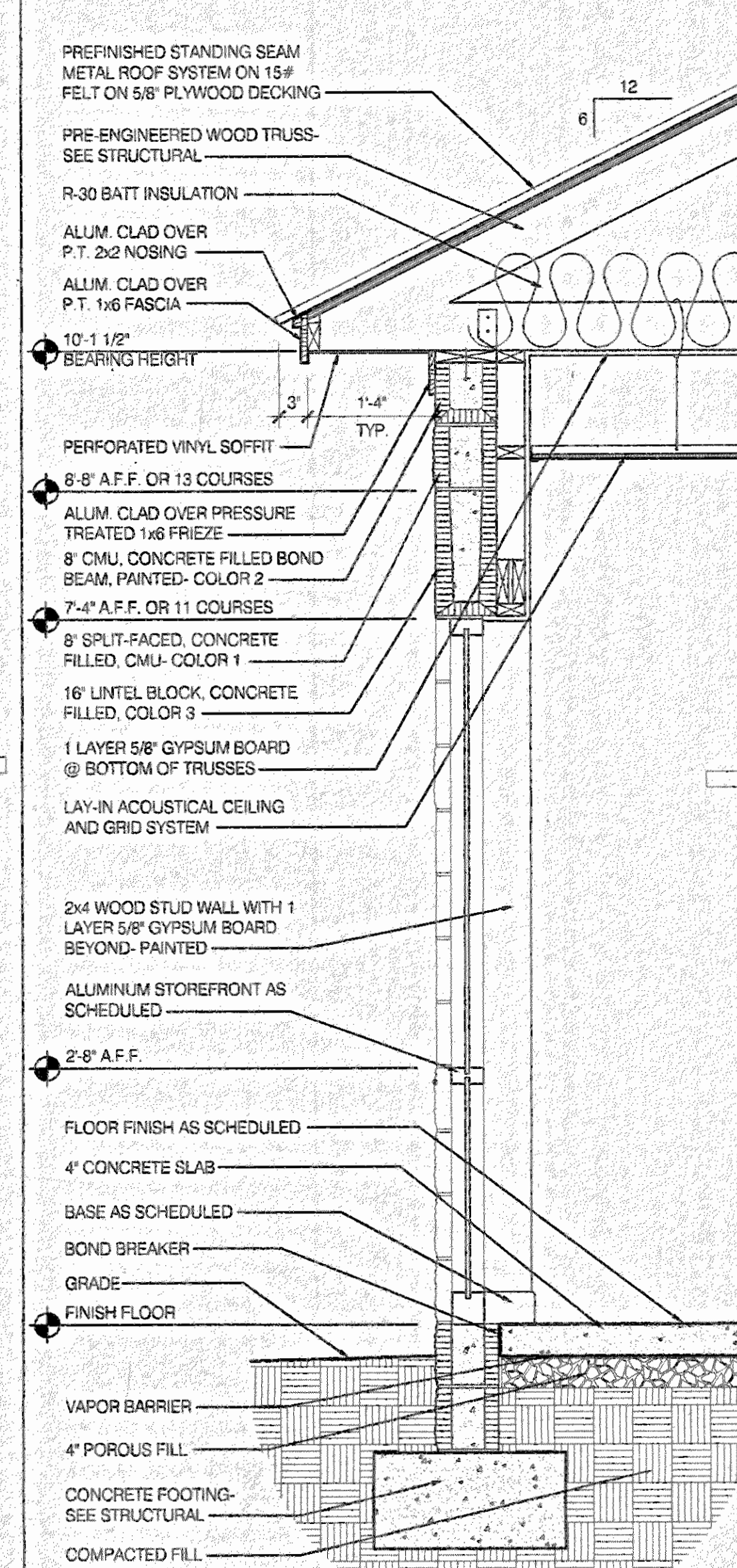
**1 DETAIL**  
A7.01 SCALE: 1" = 1'-0"



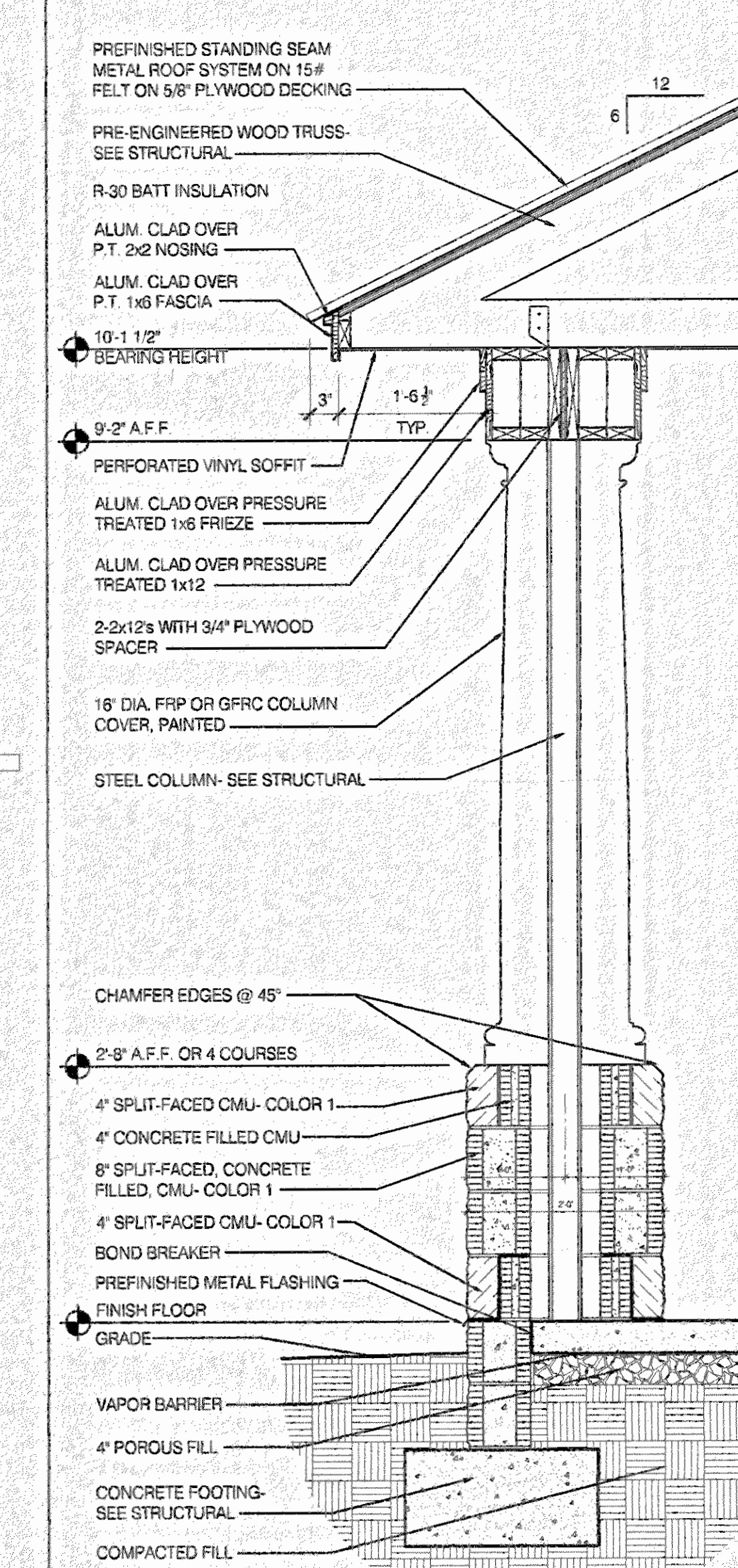
**2 DETAIL**  
A7.01 SCALE: 1" = 1'-0"



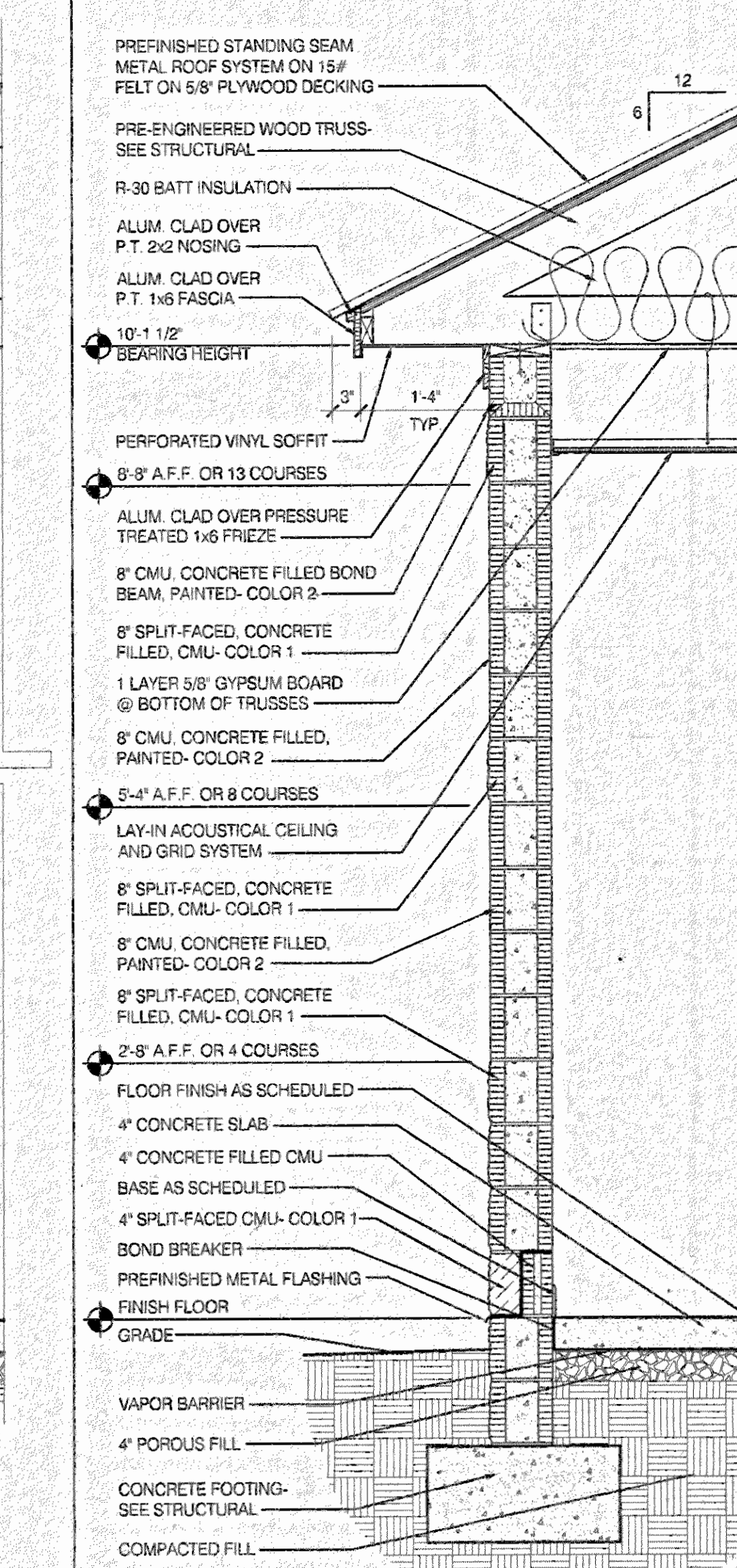
**A WALL SECTION**  
A7.01 SCALE: 3/4" = 1'-0"



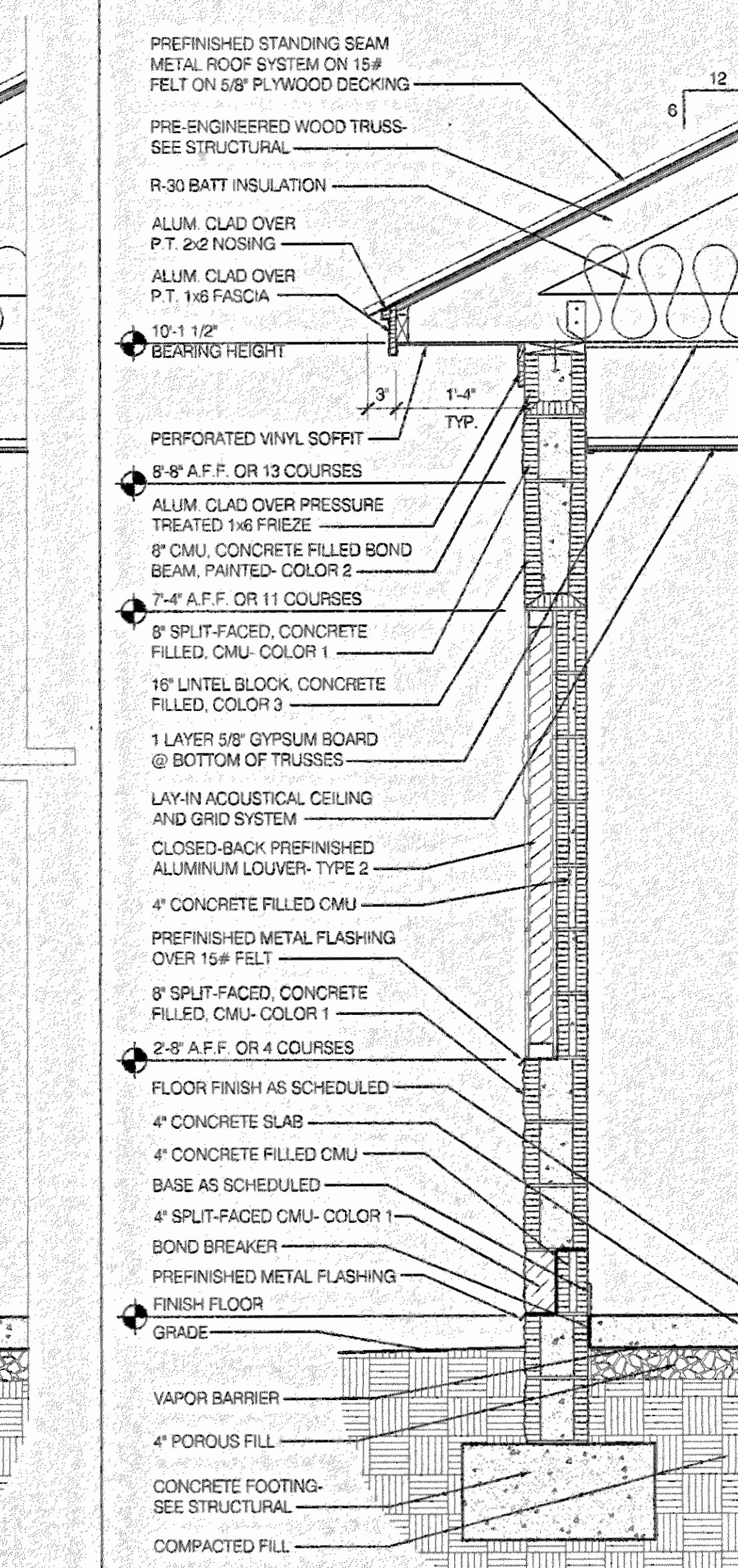
**B WALL SECTION**  
A7.01 SCALE: 3/4" = 1'-0"



**C WALL SECTION**  
A7.01 SCALE: 3/4" = 1'-0"



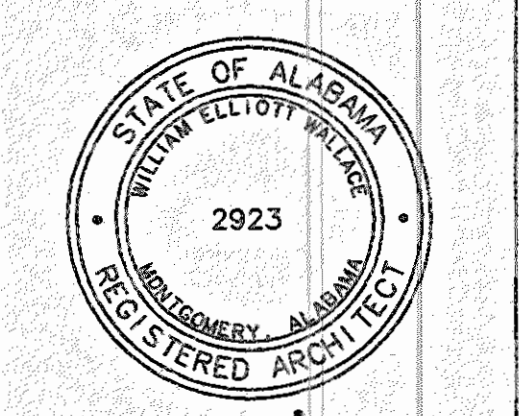
**D WALL SECTION**  
A7.01 SCALE: 3/4" = 1'-0"



**E WALL SECTION**  
A7.01 SCALE: 3/4" = 1'-0"

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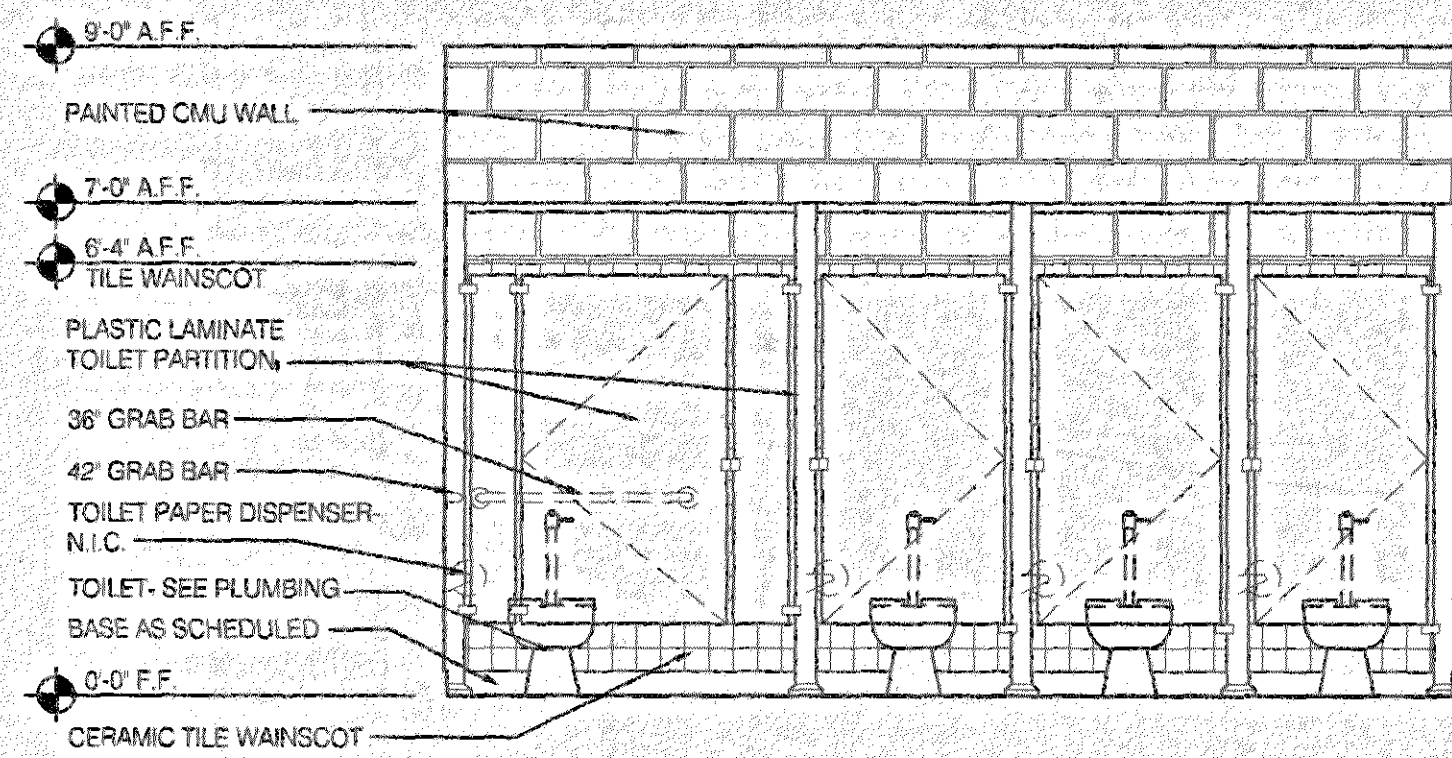


**Issue date**  
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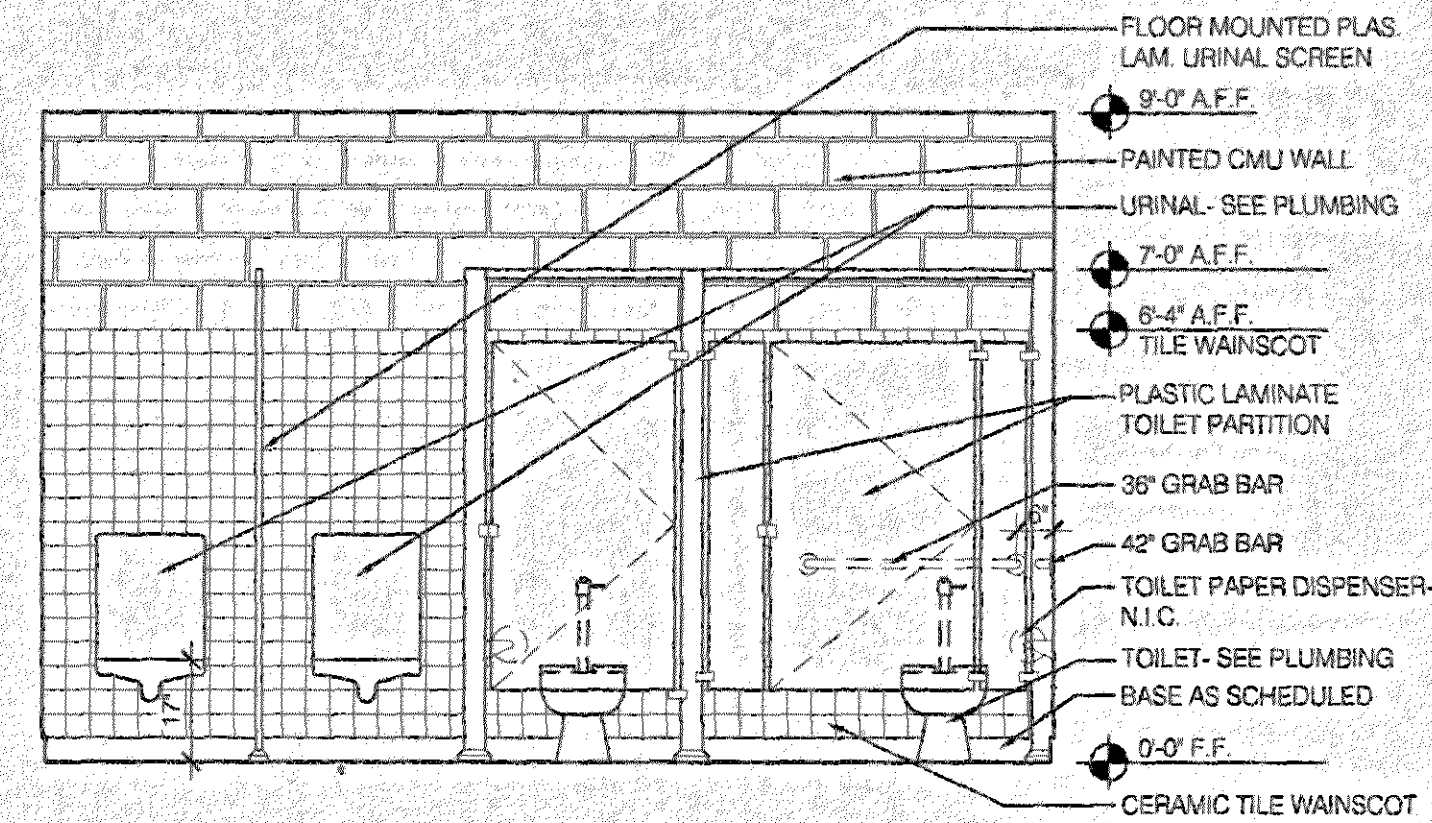
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**WALL  
SECTIONS**

**A7.01**  
sheet 21 of 34

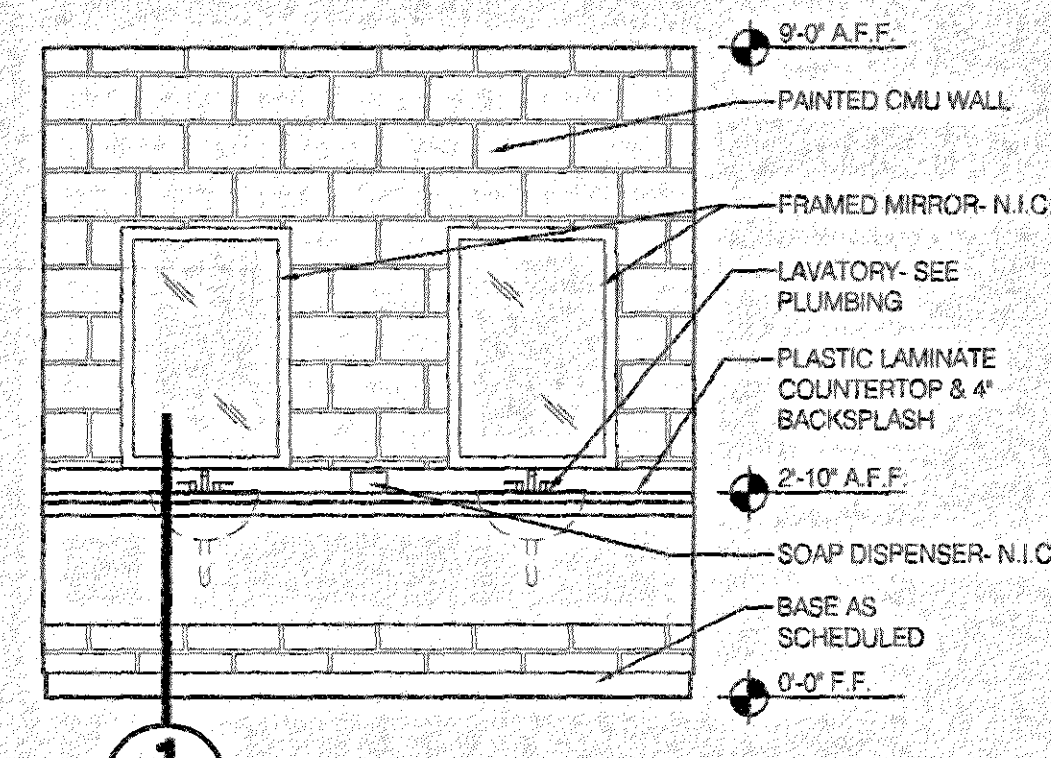




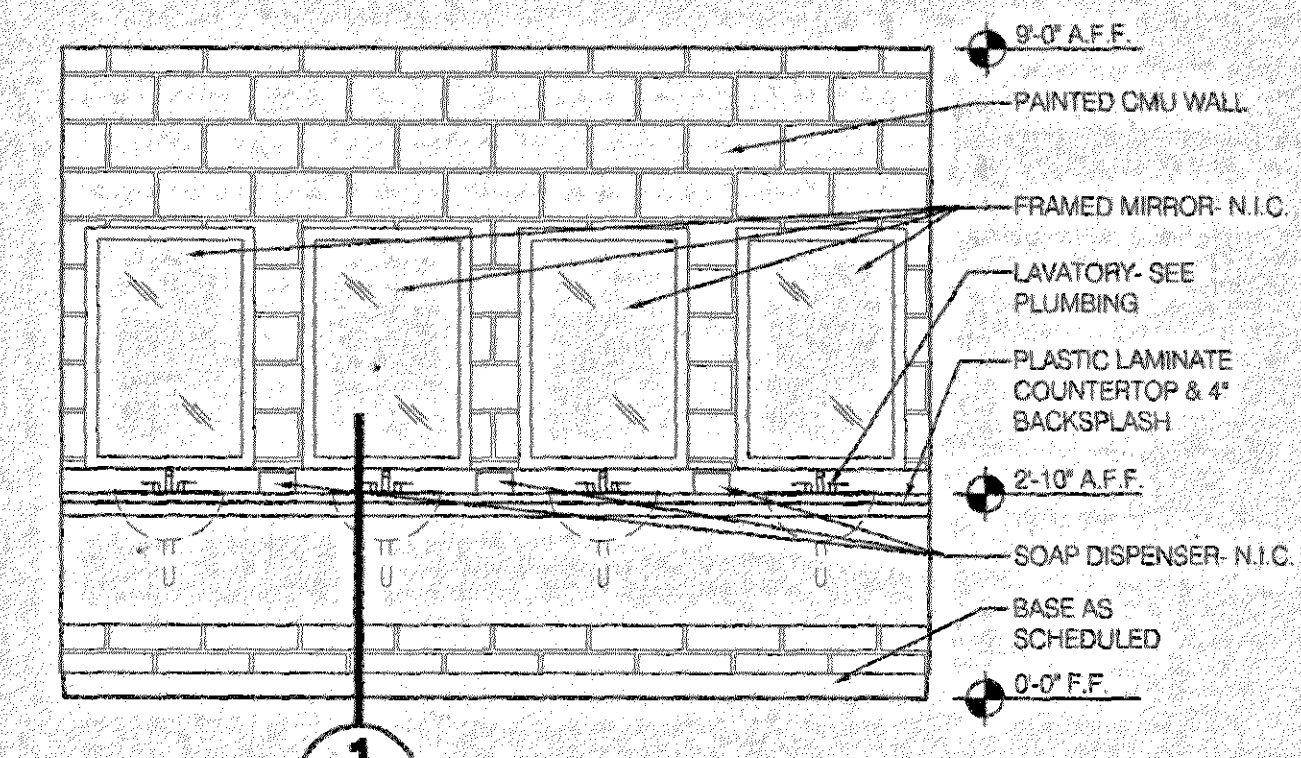
**A INTERIOR ELEVATION**  
A8.01 SCALE: 3/8" = 1'-0"



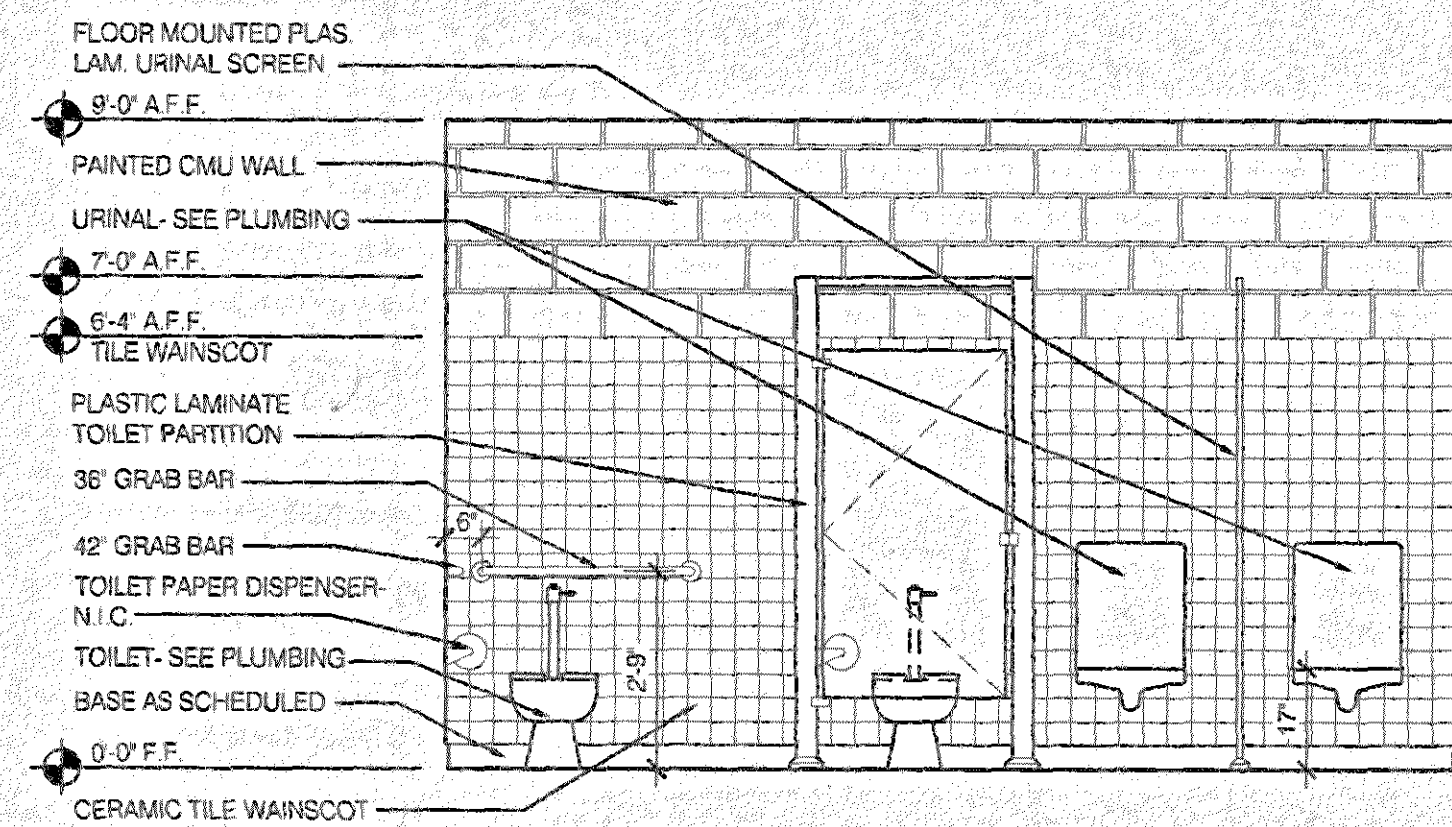
**B INTERIOR ELEVATION**  
A8.01 SCALE: 3/8" = 1'-0"



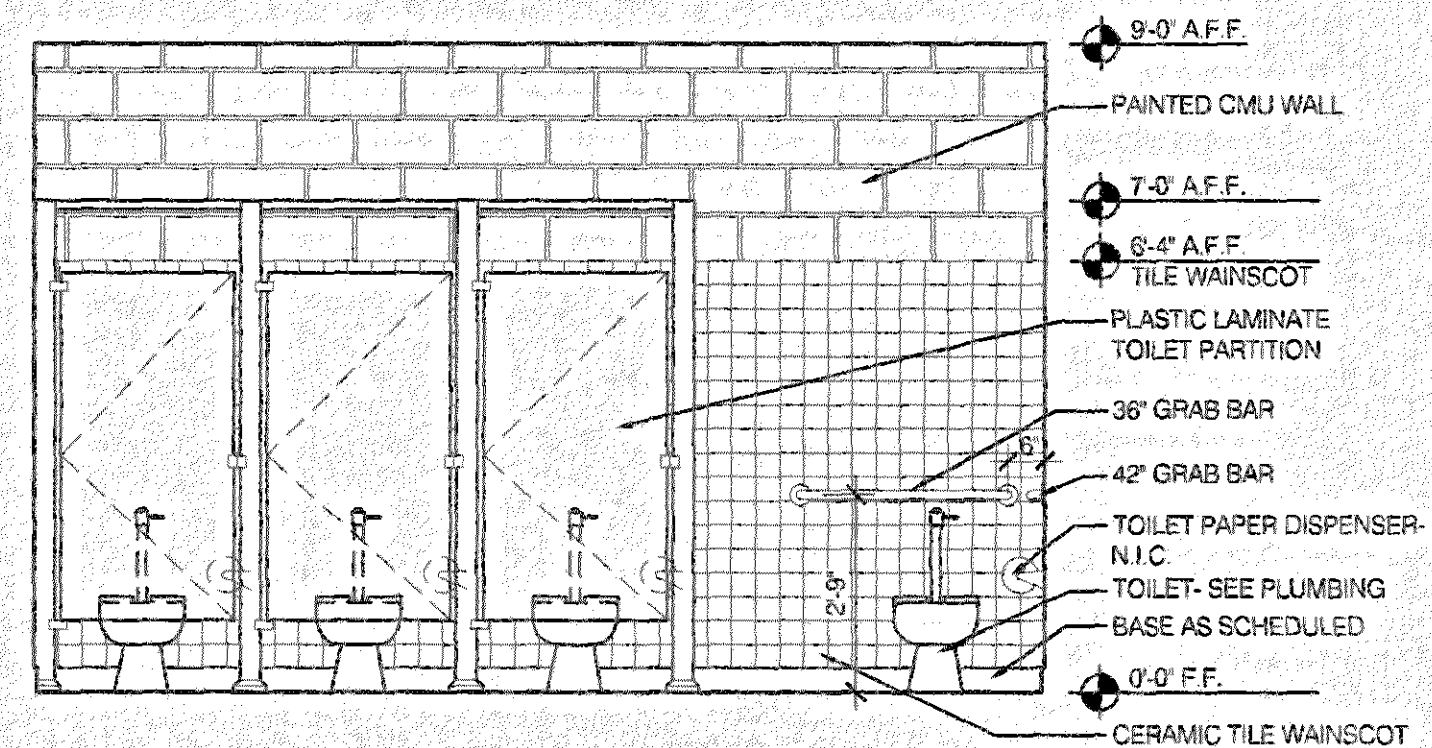
**C INTERIOR ELEVATION**  
A8.01 SCALE: 3/8" = 1'-0"



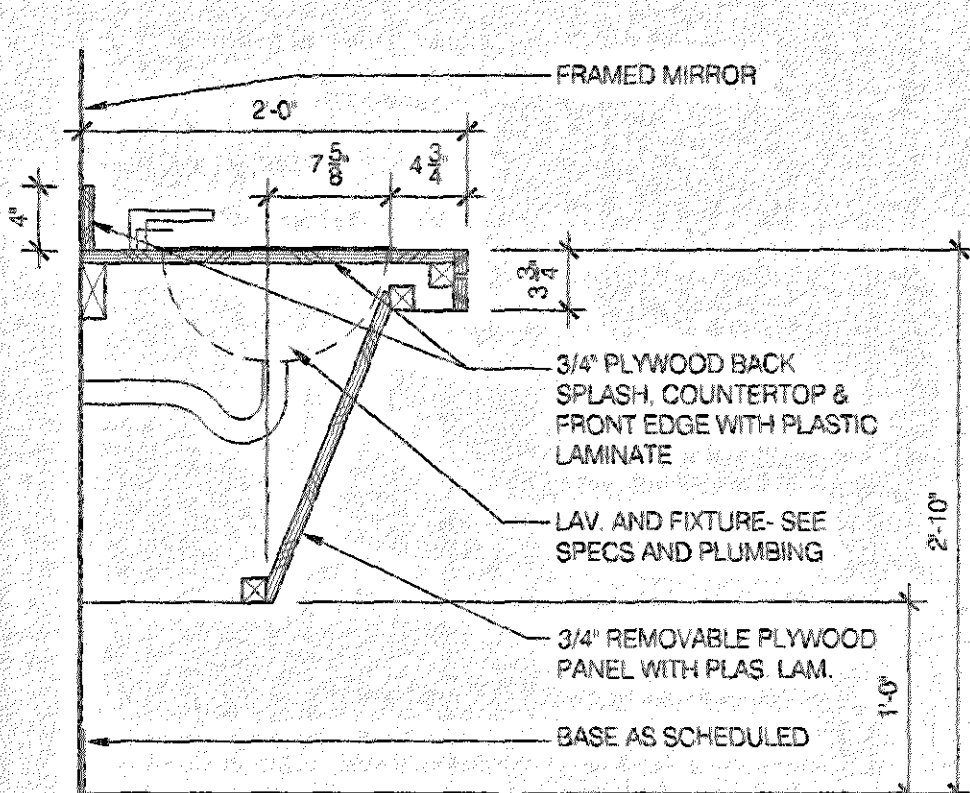
**D INTERIOR ELEVATION**  
A8.01 SCALE: 3/8" = 1'-0"



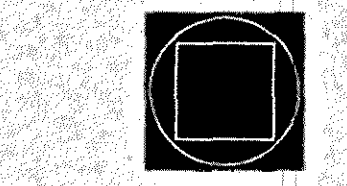
**E INTERIOR ELEVATION**  
A8.01 SCALE: 3/8" = 1'-0"



**F INTERIOR ELEVATION**  
A8.01 SCALE: 3/8" = 1'-0"



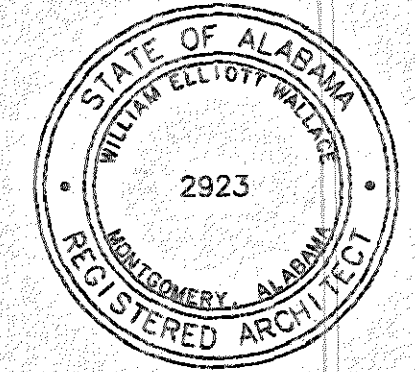
**1 SECTION**  
A8.01 SCALE: 1" = 1'-0"



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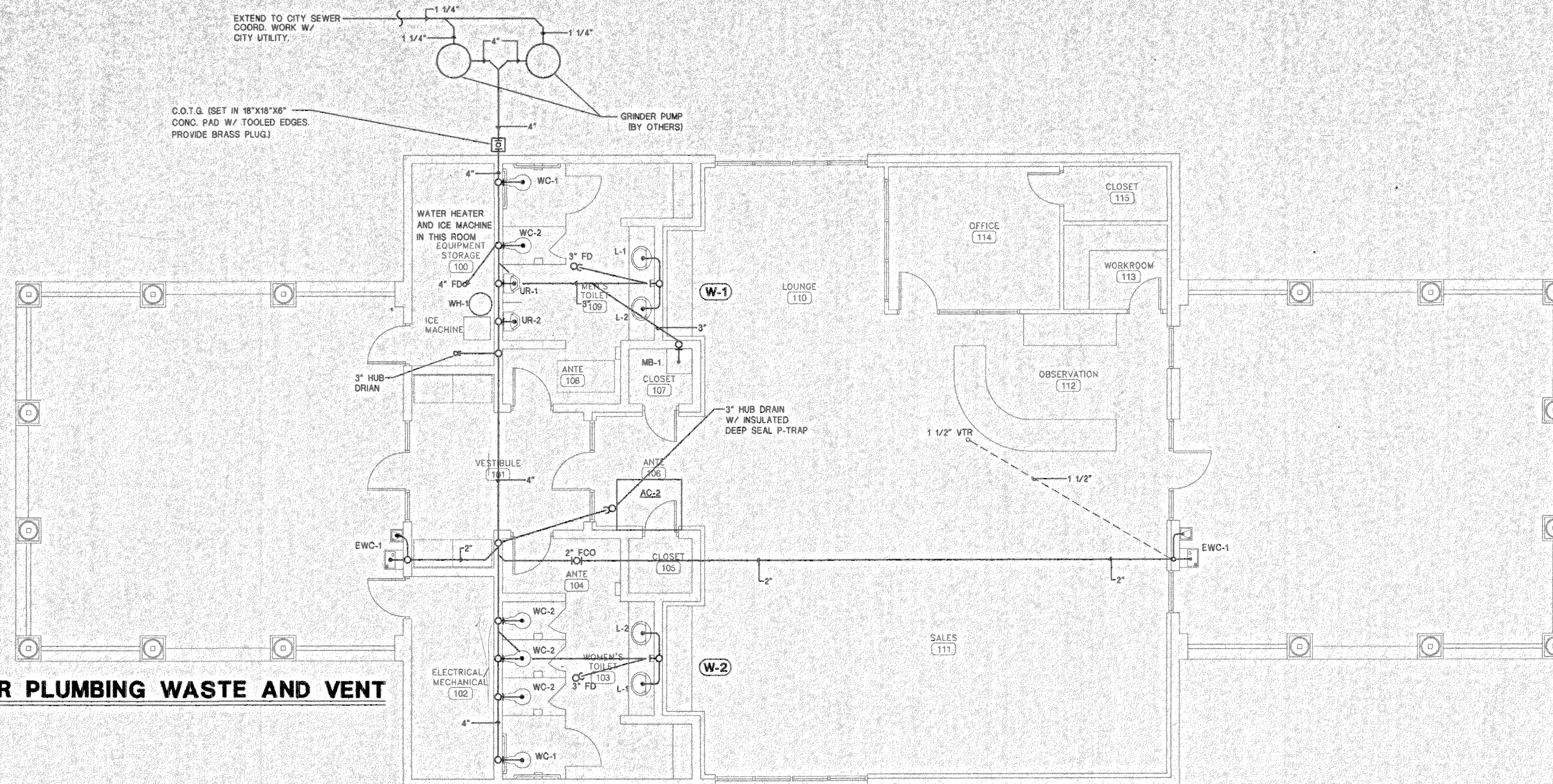


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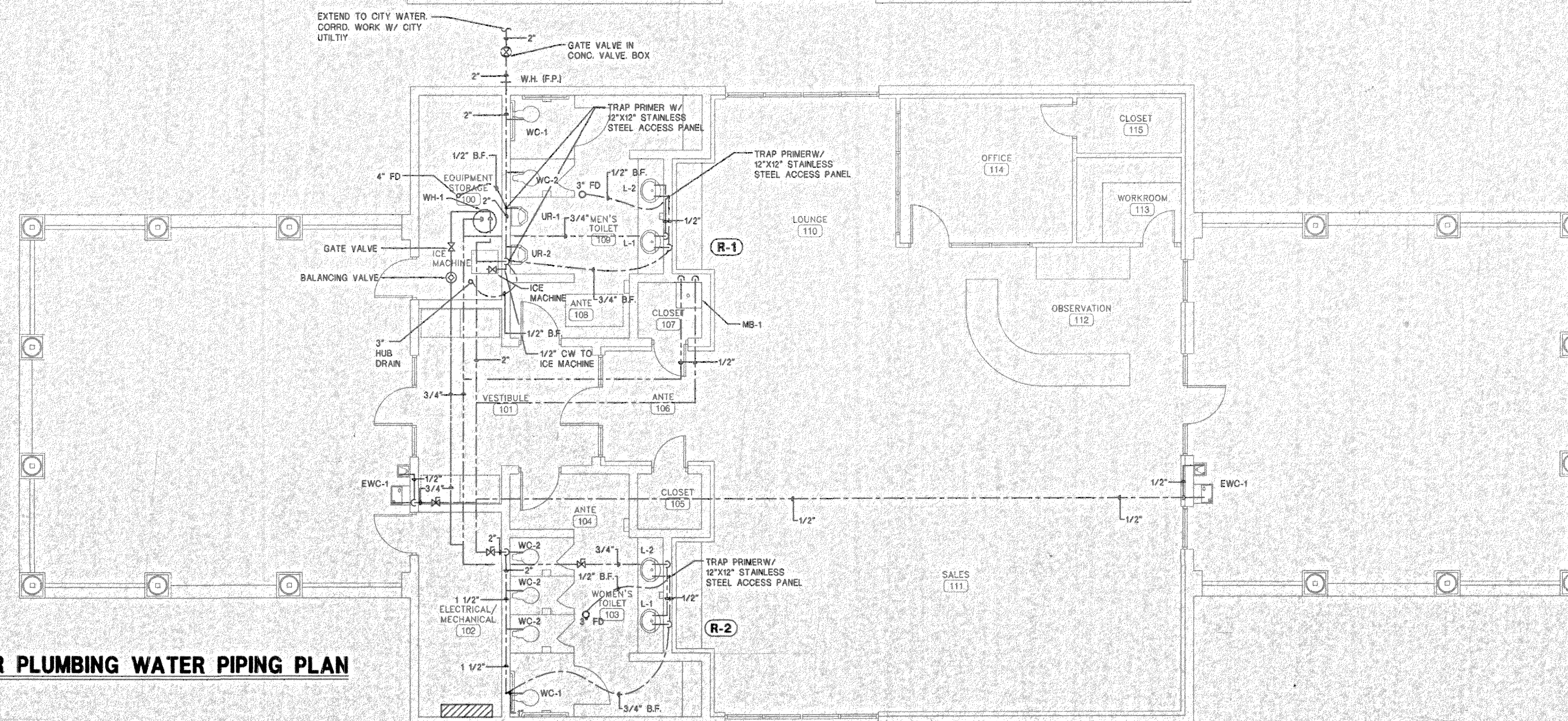
drawn by: CLT  
**INTERIOR  
ELEVATIONS,  
SECTIONS,  
AND DETAILS**

**A8.01**  
sheet 22 of 34

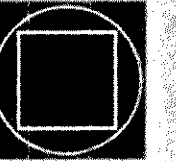




**TENNIS CENTER PLUMBING WASTE AND VENT  
PIPING PLAN**  
SCALE: 3/16"=1'-0"



**TENNIS CENTER PLUMBING WATER PIPING PLAN**  
SCALE: 3/16"=1'-0"



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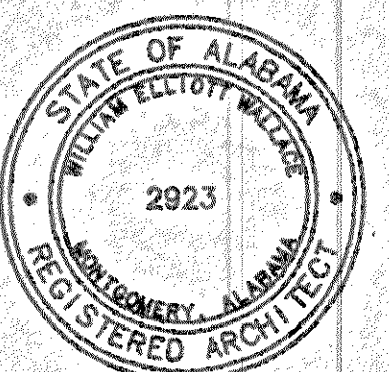
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Issue date

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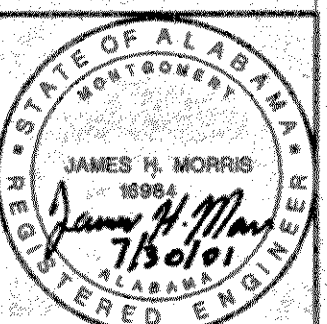
drawn by:RB/SGJ

**TENNIS  
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PLUMBING  
PLAN**

**BORDEN & MORRIS**  
CONSULTING ENGINEERS

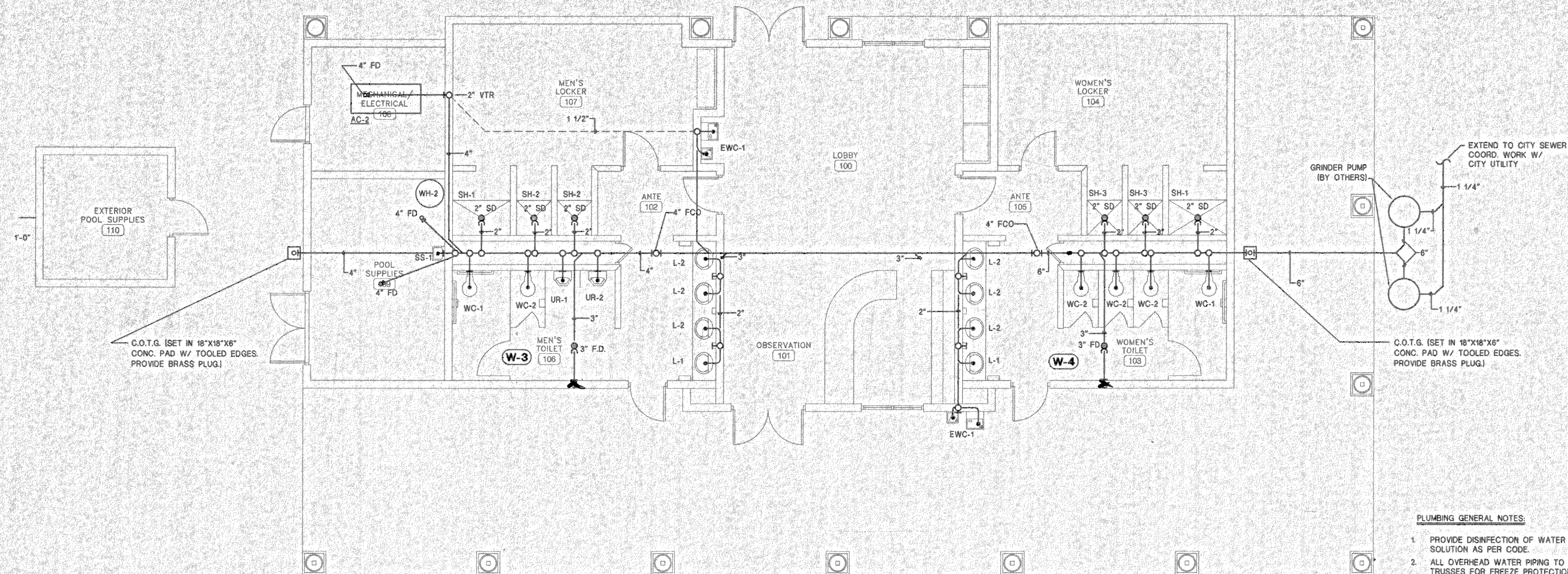
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MONTGOMERY, ALA. 36104  
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**P1.01**  
sheet 23 of 34

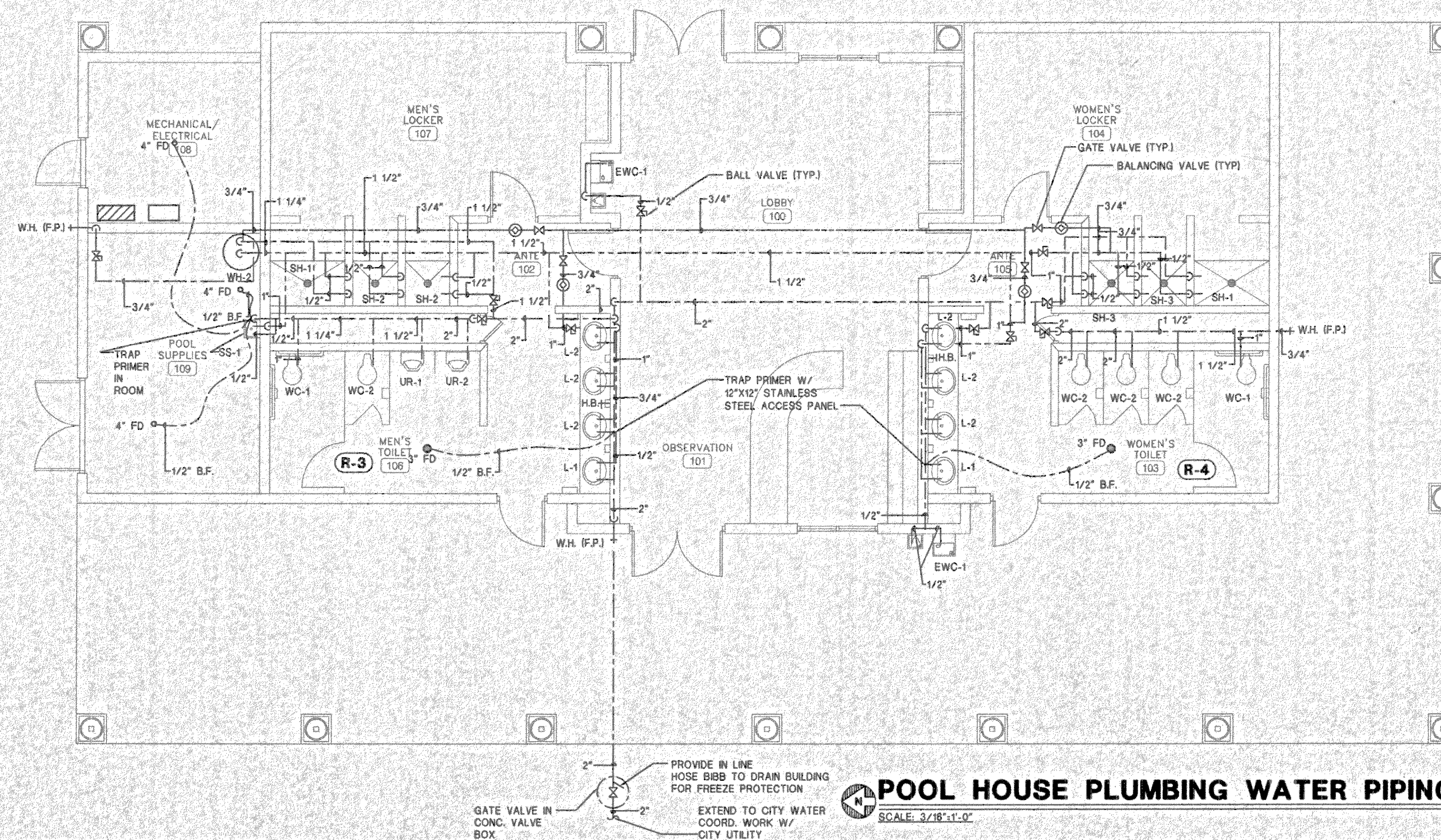




**POOL HOUSE PLUMBING WASTE AND VENT PIPING PLAN**  
SCALE: 3/16"=1'-0"

**PLUMBING GENERAL NOTES:**

1. PROVIDE DISINFECTION OF WATER PIPING SYSTEM WITH CHLORINE SOLUTION AS PER CODE.
2. ALL OVERHEAD WATER PIPING TO BE RUN BELOW INSULATION AT BOTTOM OF TRUSSES FOR FREEZE PROTECTION.
3. INSTALLATION OF BACKFLOW PREVENTER SHALL COMPLY WITH STANDARD PLUMBING CODE SECTION 1204.4.
4. ALL INDIRECT DRAINS TO HAVE INSULATED DEEP SEAL P-TRAPS.
5. ALL WALL HYDRANTS TO BE FREEZE PROOF AND TO HAVE VACUUM BREAKERS.
6. INSULATION ON ALL PIPING SHALL MEET SMOKE/ FLAME RATING OF 25 & 50.
7. ALL FLOOR DRAINS TO HAVE DEEP SEAL P-TRAPS.
8. INSTALL WATER HAMMER ARRESTORS AS FOLLOWS:
  - A. LAY IN CEILING: MOUNT WATER HAMMER ARRESTOR ABOVE CEILING FOR ACCESS.
  - B. SHEETROCK CEILING: MOUNT WATER HAMMER ARRESTOR IN CHASE WALL. PROVIDE 12" X 12" STAINLESS STEEL ACCESS PANEL IN WALL.
9. PROVIDE 12" X 12" STAINLESS STEEL ACCESS PANEL AT ALL TRAP PRIMERS.
10. PROVIDE WCO AT OR NEAR BASE OF EACH WASTE & VENT STACK.
11. THESE DRAWINGS NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE PROJECT. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
12. COORDINATE PLUMBING PIPING WITH STRUCTURAL, PLUMBING, HVAC AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE PROJECT.
13. ALL WASTE AND VENT PIPING RUN IN R.A. PLENUM TO BE CAST IRON.
14. NO PIPING TO BE RUN ABOVE ELECTRICAL PANELS.
15. ALL WASTE AND VENT IN CORRIDOR WALLS OR RATED WALLS TO BE CAST IRON PIPE.
16. CONTRACTOR SHALL VISIT THE JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE SUBMITTING A BID. NOTIFY THE ARCHITECT / OWNER OF ANY DEVIATION FROM PLUMBING PLAN.
17. PROVIDE SPRINKLER SYSTEM IN JANITOR CLOSET PER NFPA AND LIFE SAFETY CODE. EXTEND A LINE FROM THE DOMESTIC WATER LINE TO THE SPRINKLER HEAD. PROVIDE FLOW SWITCH AND GATE VALVE.



**POOL HOUSE PLUMBING WATER PIPING PLAN**  
SCALE: 3/16"=1'-0"

NOTE: AT CONTRATORS OPTION DOMESTIC PIPING IN BLDG. MAY BE PEX PIPE

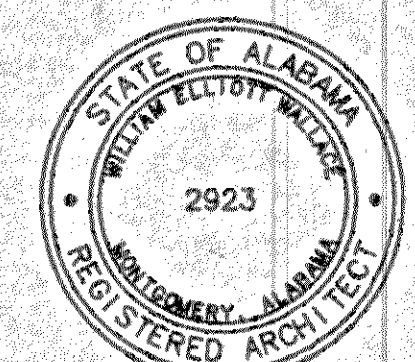


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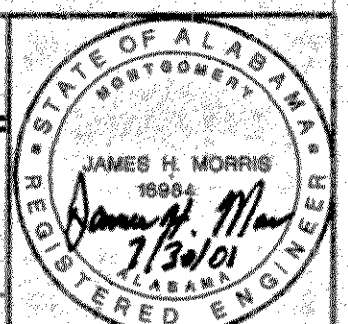


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Construction Dwgs 7.27.01

drawn by: RB/SJ

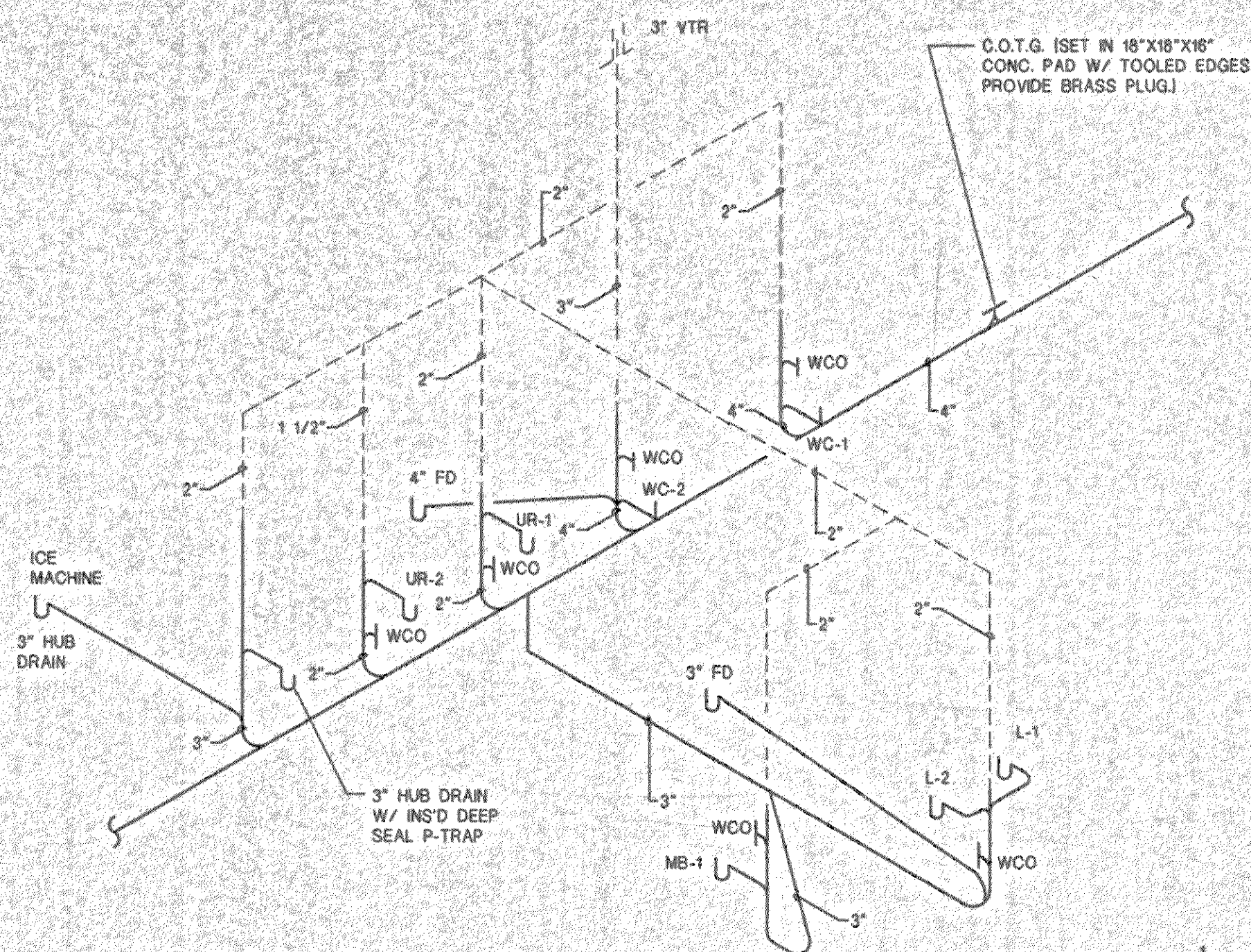
**POOL HOUSE  
PLUMBING  
PLAN**

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ORD. NAME: 0149-P102

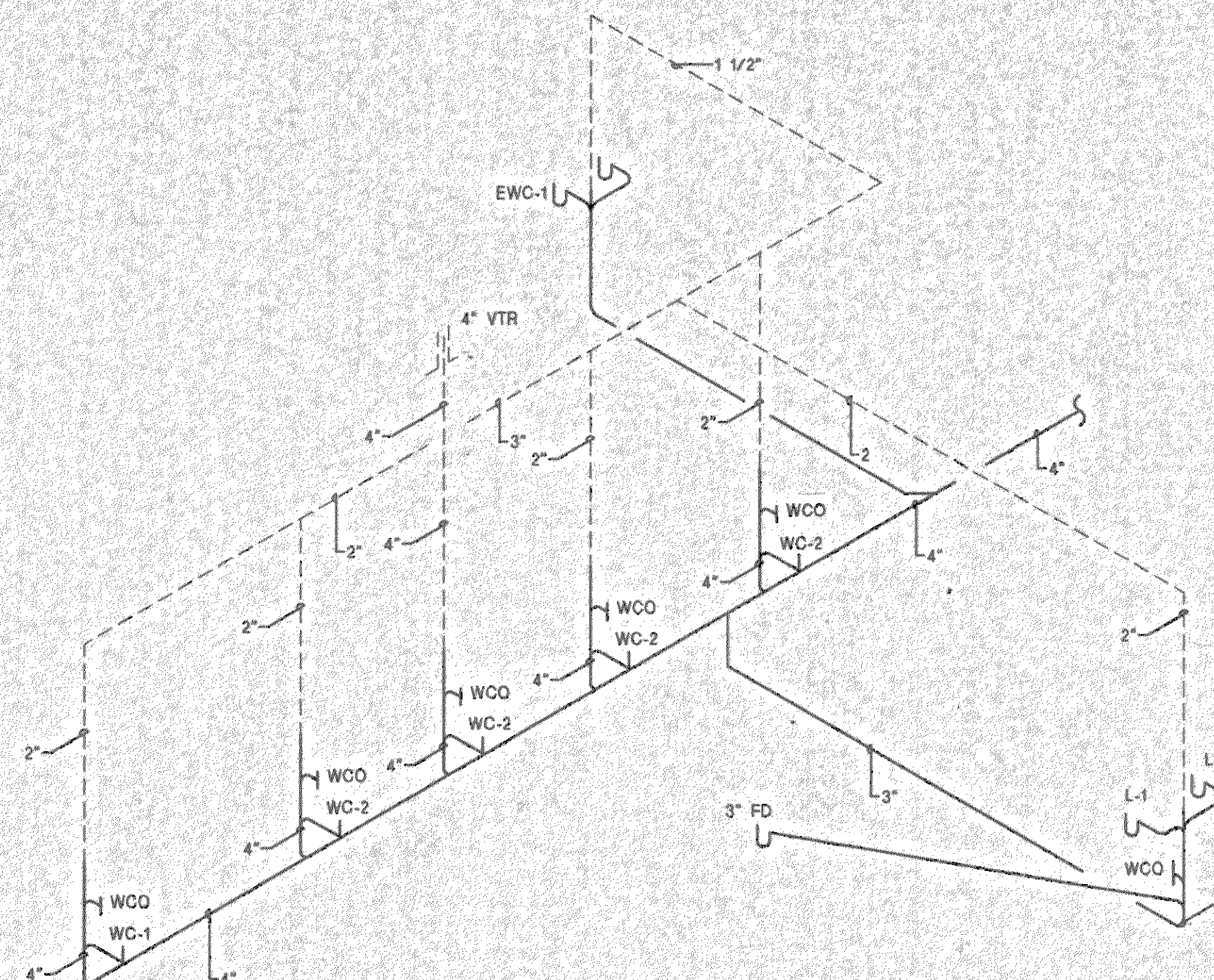


**P1.02**  
sheet 24 of 34

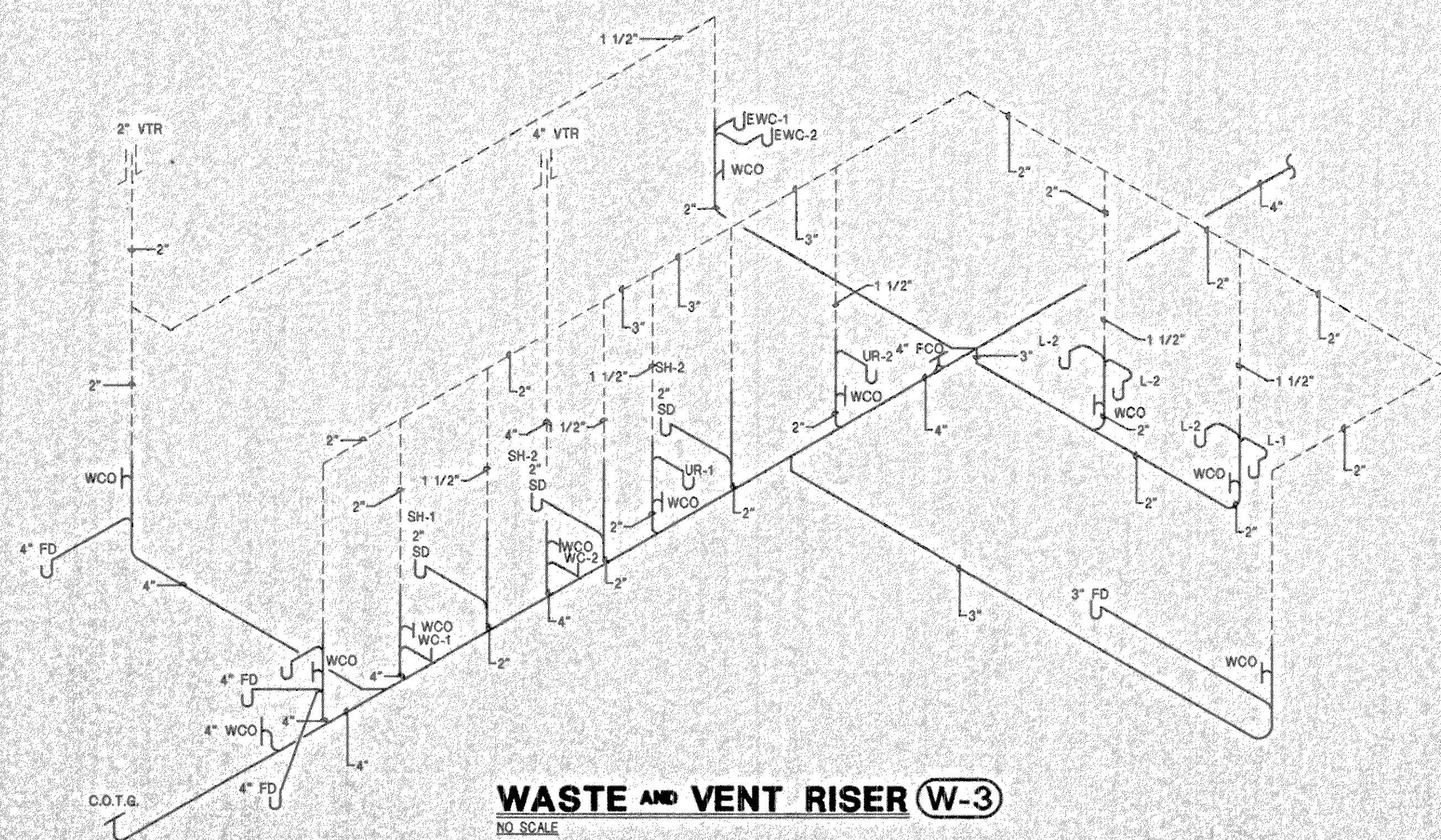




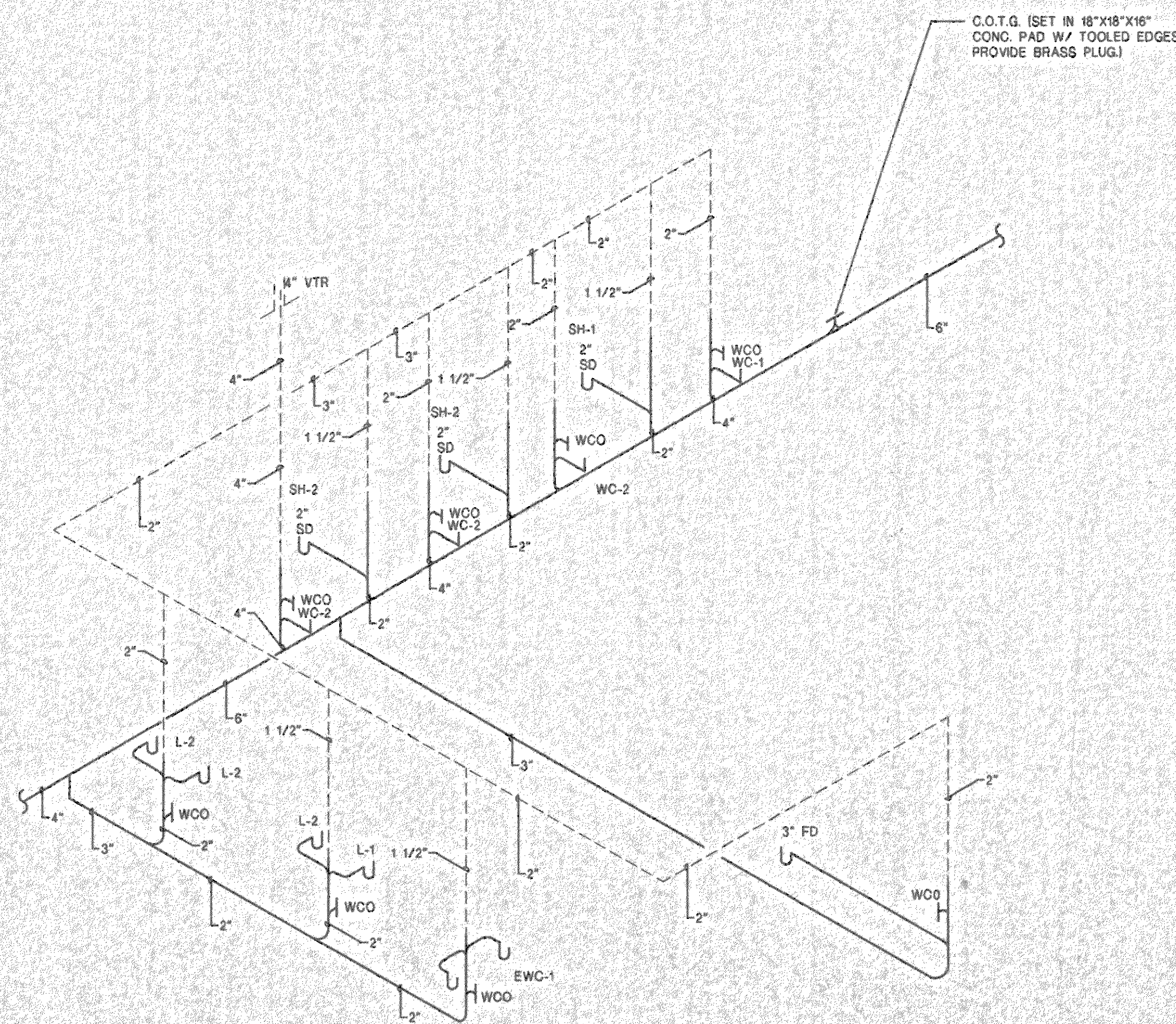
**WASTE AND VENT RISER (W-1)**  
NO SCALE



**WASTE AND VENT RISER (W-2)**  
NO SCALE

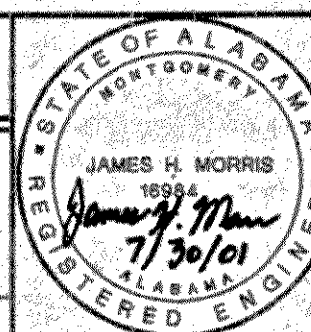


**WASTE AND VENT RISER (W-3)**  
NO SCALE



**WASTE AND VENT RISER (W-4)**  
NO SCALE

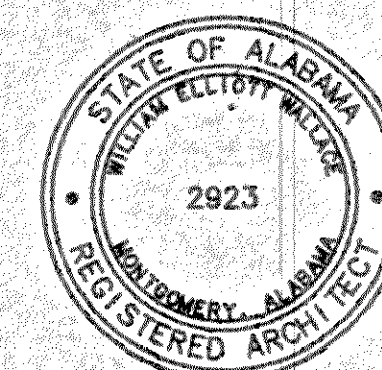
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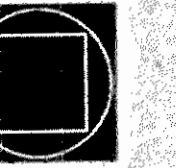
Issue date  
Construction Draw 7.27.01

drawn by: RB/SGJ

**PLUMBING  
WASTE  
RISERS**

**P2.01**  
sheet 25 of 34



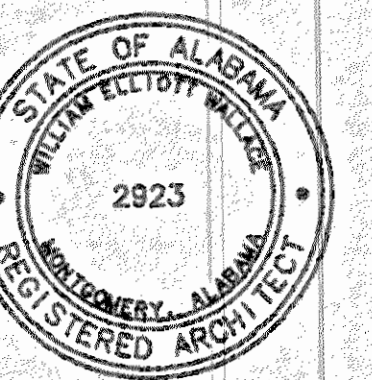


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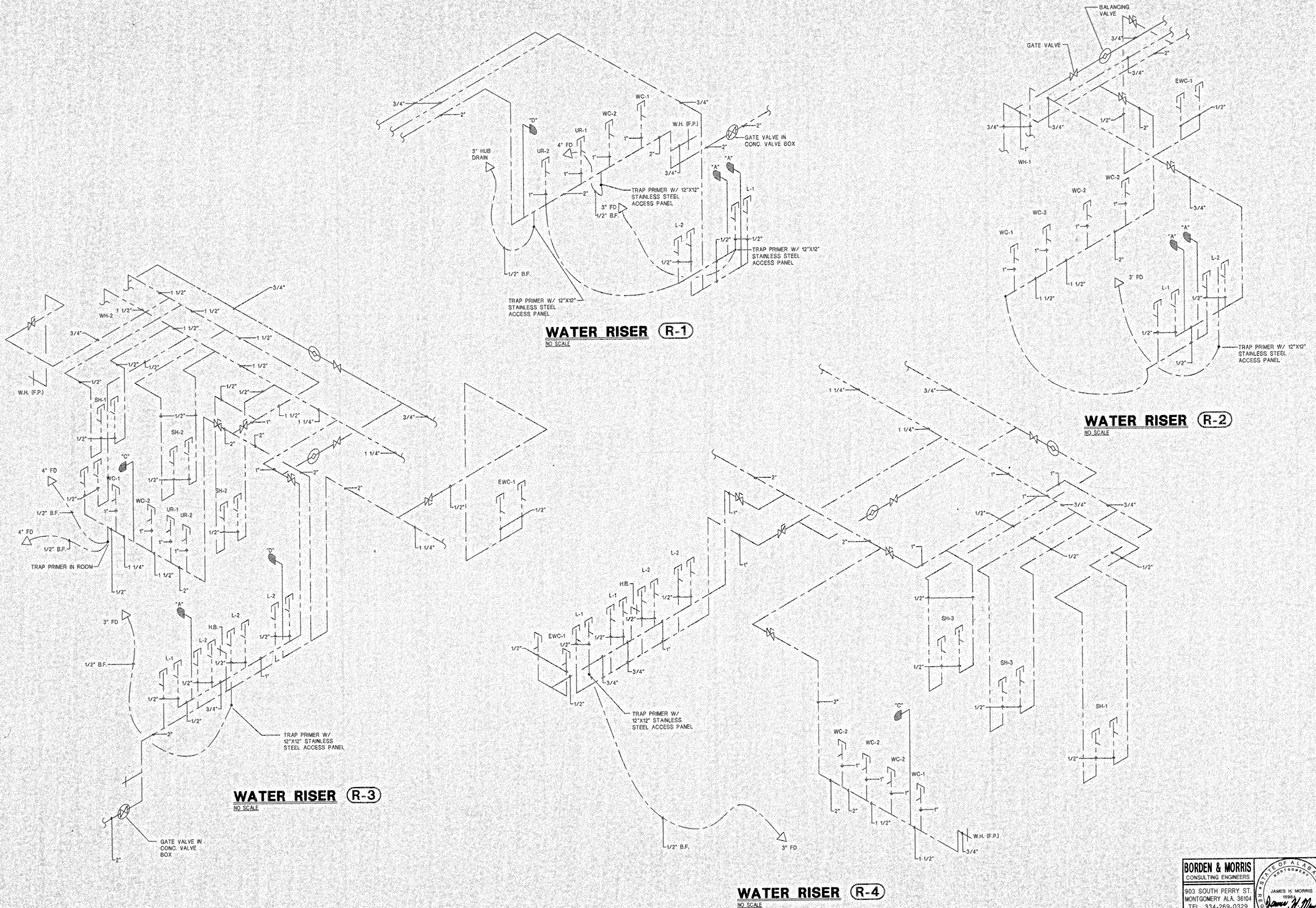
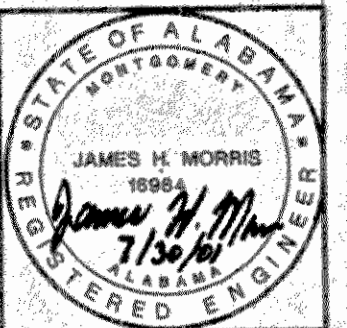
drawn by: RB/SJG

**PLUMBING  
WATER  
RISERS**

**P2.02**

sheet 26 of 34

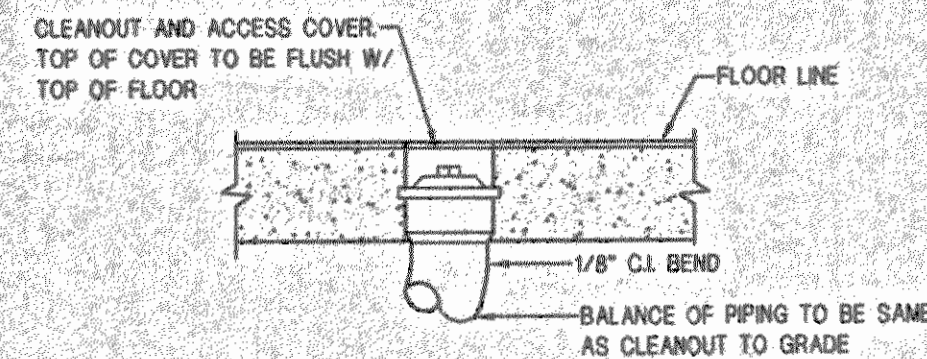
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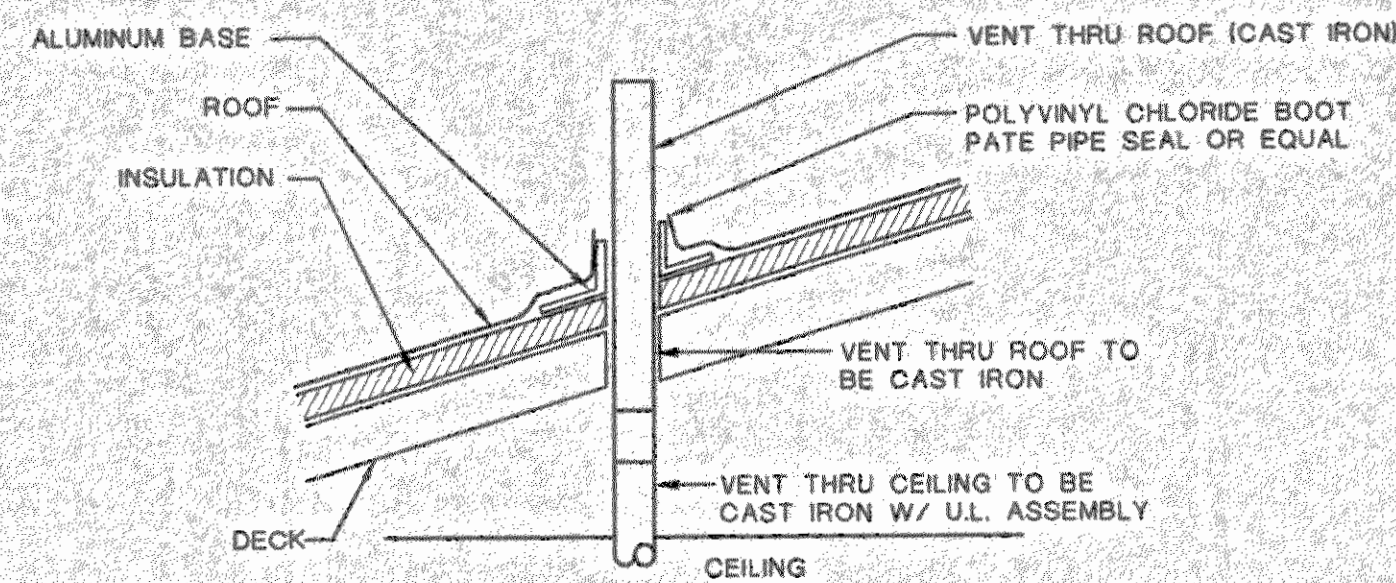
## FLOOR CLEANOUT DETAIL (FCO)

NO SCALE CLEANOUT NOT TO BE LOCATED IN ANY CARPETED AREAS.



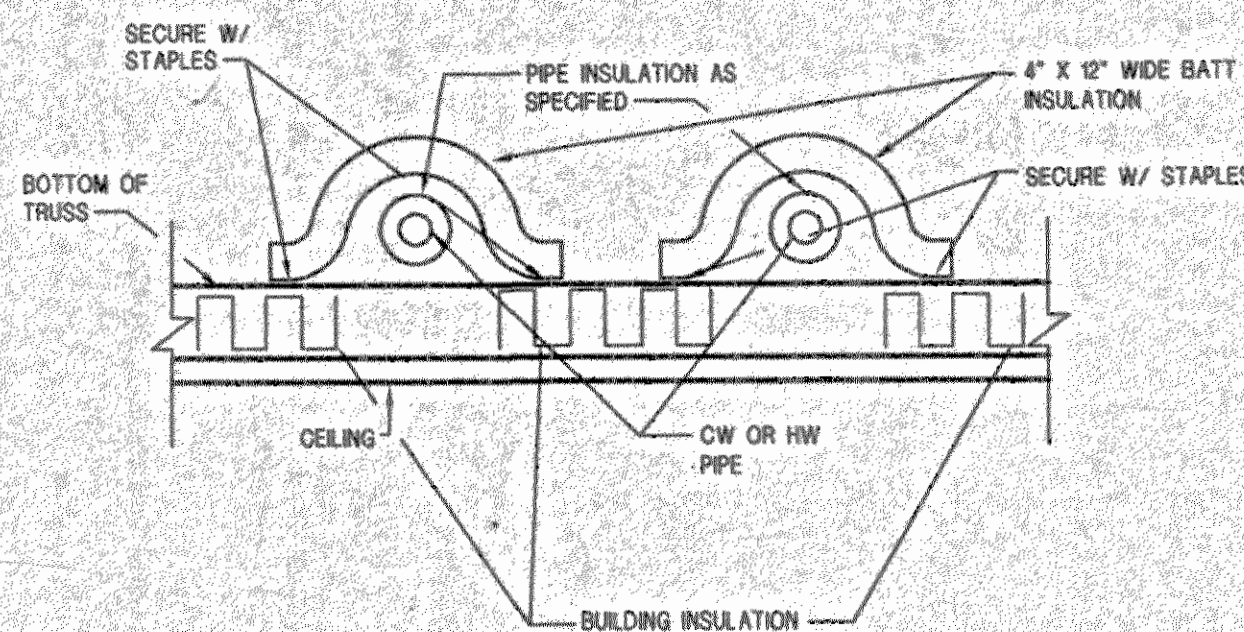
## VENT THRU ROOF DETAIL

NO SCALE



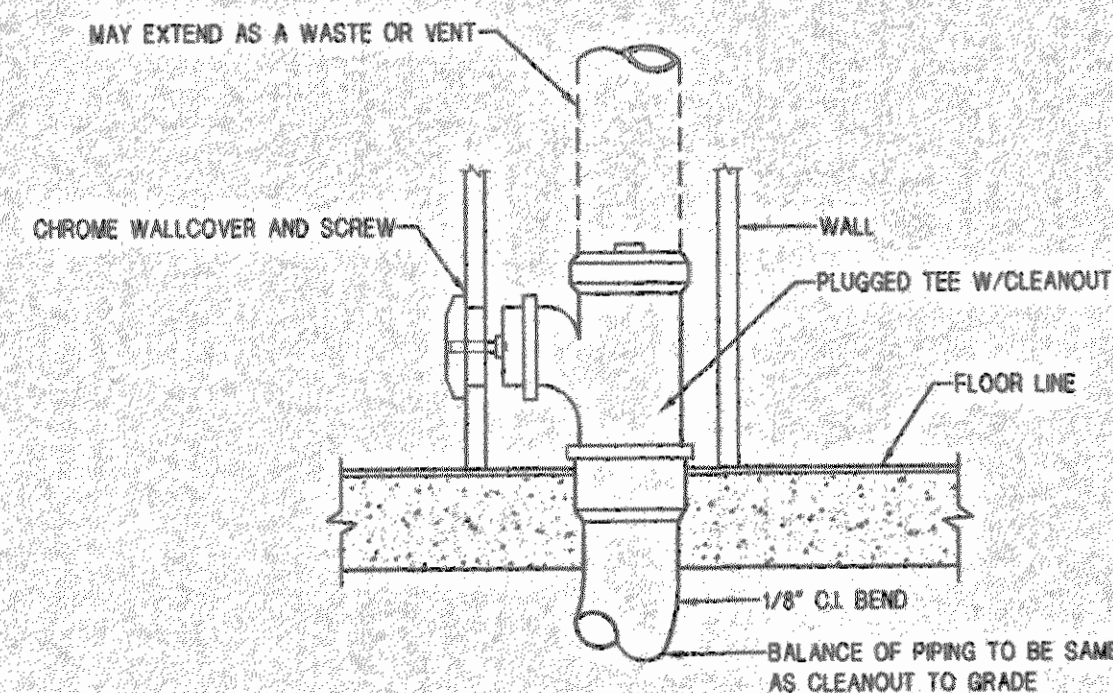
## DETAIL OF ATTIC WATER PIPE INSULATION

NO SCALE  
NOTE:  
NO BUILDING INSULATION TO BE UNDER PIPING.



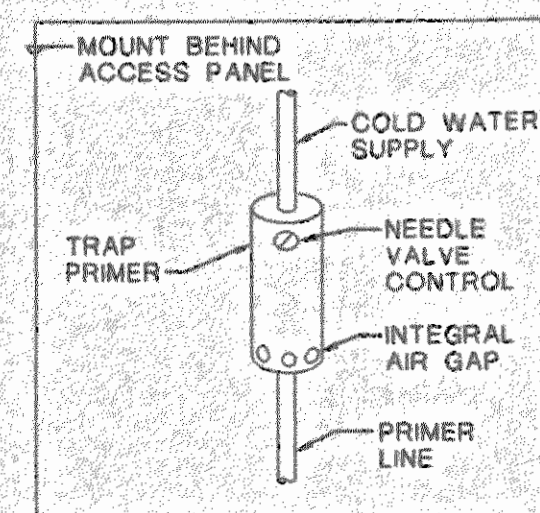
## WALL CLEANOUT DETAIL

NO SCALE



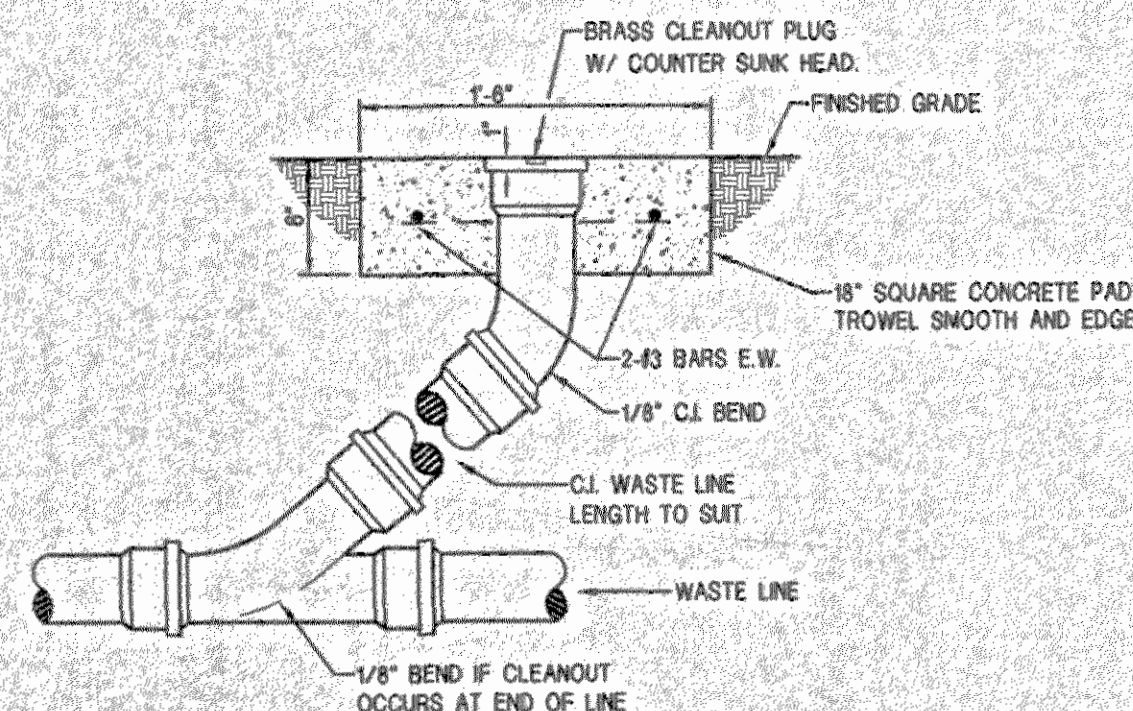
## TRAP PRIMER DETAIL

NO SCALE



## CLEANOUT TO GRADE (COTG)

NO SCALE



## PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	C	H	W	REMARKS
WC-1	WATER CLOSET (H/C)	1"	---	4"	FLOOR MOUNTED, FLUSH VALVE, H/C
WC-2	WATER CLOSET	1"	---	4"	FLOOR MOUNTED, FLUSH VALVE
UR-1	URINAL (H/C)	1"	---	2"	WALL MOUNTED, FLUSH VALVE, HANG 17" UP TO FIN. FL.
UR-2	URINAL	1"	---	2"	WALL MOUNTED, FLUSH VALVE
L-1	LAVATORY (H/C) * (METERING FAUCET)	1/2"	---	1-1/4"	COUNTERTOP
L-2	LAVATORY (METERING FAUCET)	1/2"	---	1-1/4"	COUNTERTOP
EW-1	ELECTRIC WATER COOLER (H/C) **	1/2"	---	1-1/4"	WALL MOUNTED, HANG 36" SPOUT TO FIN. FL.
EW-2	ELECTRIC WATER COOLER **	1/2"	---	1-1/4"	WALL MOUNTED
SH-1	SHOWER (H/C)	1/2"	1/2"	2" SD	PROVIDE HAND HELD SHOWER AND FOLD DOWN SEAT
SH-1	SHOWER (MENS)	1/2"	1/2"	2" SD	MOUNT HEAD 6" 2" A.F.F.
SH-1	SHOWER (WOMENS)	1/2"	1/2"	2" SD	MOUNT HEAD 5" 10" A.F.F.

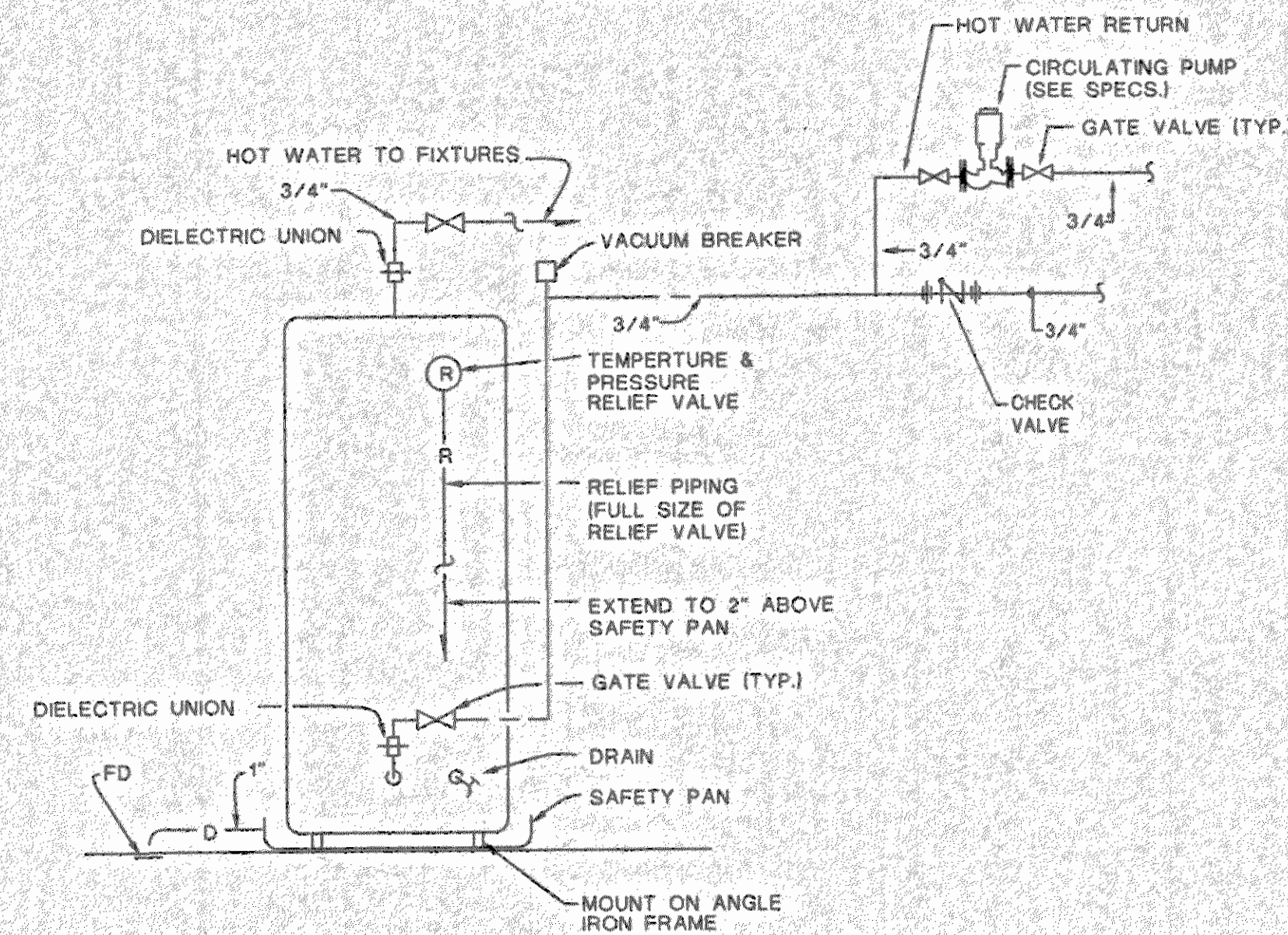
\* INSULATE P-TRAP, DRAIN AND SUPPLIES WITH HANDI LAV GUARD INSULATION KIT #102W OR EQUAL BY TRAP WRAP & McGUIRE PRO WRAP  
\*\* STAINLESS STEEL SAFETY BUBBLER

## LEGEND

---	WASTE PIPING
---	VENT PIPING
---	COLD WATER PIPING
---	HOT WATER RETURN PIPING
---	HOT WATER PIPING
---	C.O.T.G. (SET IN 18"X18"X6" CONC. PAD W/ TOOLED EDGES. PROVIDE BRASS PLUG.)
---	F.D. FLOOR DRAIN
---	BALL VALVE
---	WASTE RISER
---	WATER RISER
---	W.H. (F.P.) WALL HYDRANT (FREEZEPROOF)
---	GATE VALVE IN CONC. VALVE BOX
---	BELOW FLOOR
---	V.T.R. VENT THRU ROOF
---	W.C.O. WALL CLEANOUT
---	F.C.O. FLOOR CLEANOUT
---	BALANCING VALVE
---	GATE VALVE

## WATER HEATER CONNECTIONS W/ CIRCULATING PUMP (WH-1)

NO SCALE



## WATER HAMMER ARRESTOR SCHEDULE

P.D. UNITS	A	B	C	D	E	F
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-150	155-330

PROVIDE ACCESS FOR SERVICE

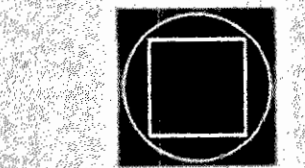
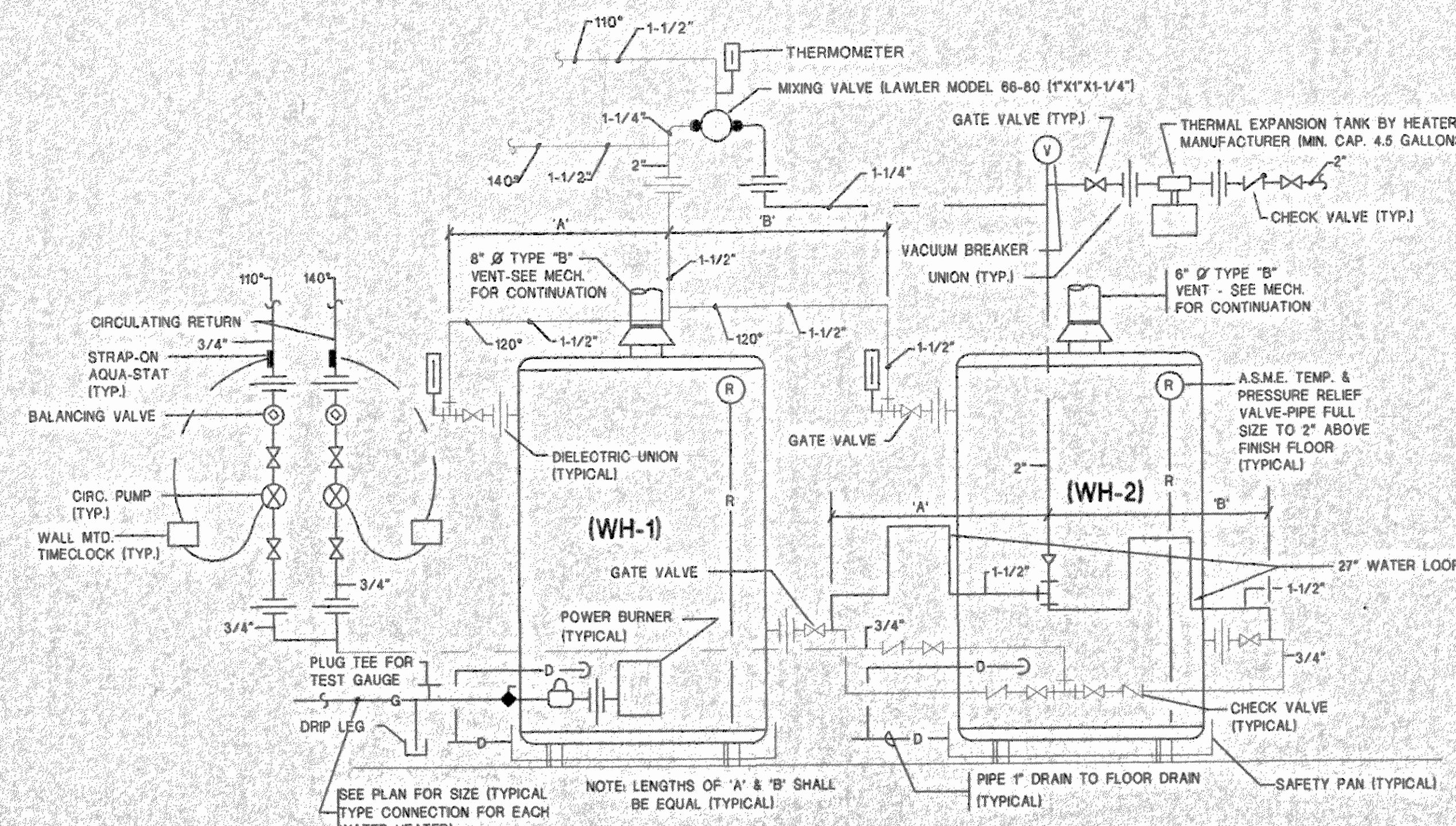
## ELECTRIC WATER HEATER SCHEDULE

MARK	STORAGE CAP.	RECOVERY @ 100°	KW	VOLT	PH	CY	REMARKS
WH-2	120	99	24	208	3	60	2,3,4,5,6,7
WH-1	30	25	6	208	1	60	1,2,4,5

1. BASED ON RHEEM MODEL EGS-30  
2. PROVIDE THREE YEAR WARRANTY  
3. BASED ON RHEEM MODEL E-20-24 OR EQUAL  
4. PROVIDE CIRC. PUMP (SEE SPECS)  
5. PROVIDE TIME CLOCK (SEE SPECS)  
6. PROVIDE MIXING VALVE (SEE SPECS)  
7. PROVIDE EXPANSION TANK (SEE SPECS)

## WATER HEATER CONNECTION DETAIL

NO SCALE



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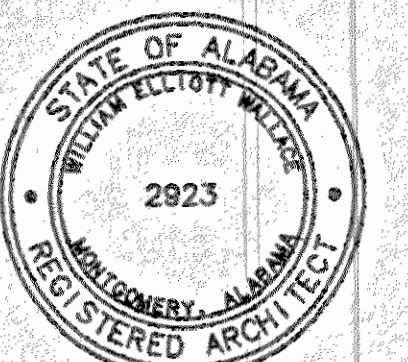
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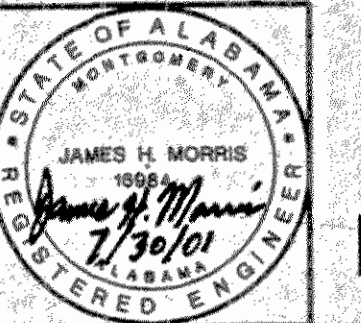
Construction Dwg 7/27/01

drawn by: RB/SJ

PLUMBING  
DETAILS  
AND  
SCHEDULES

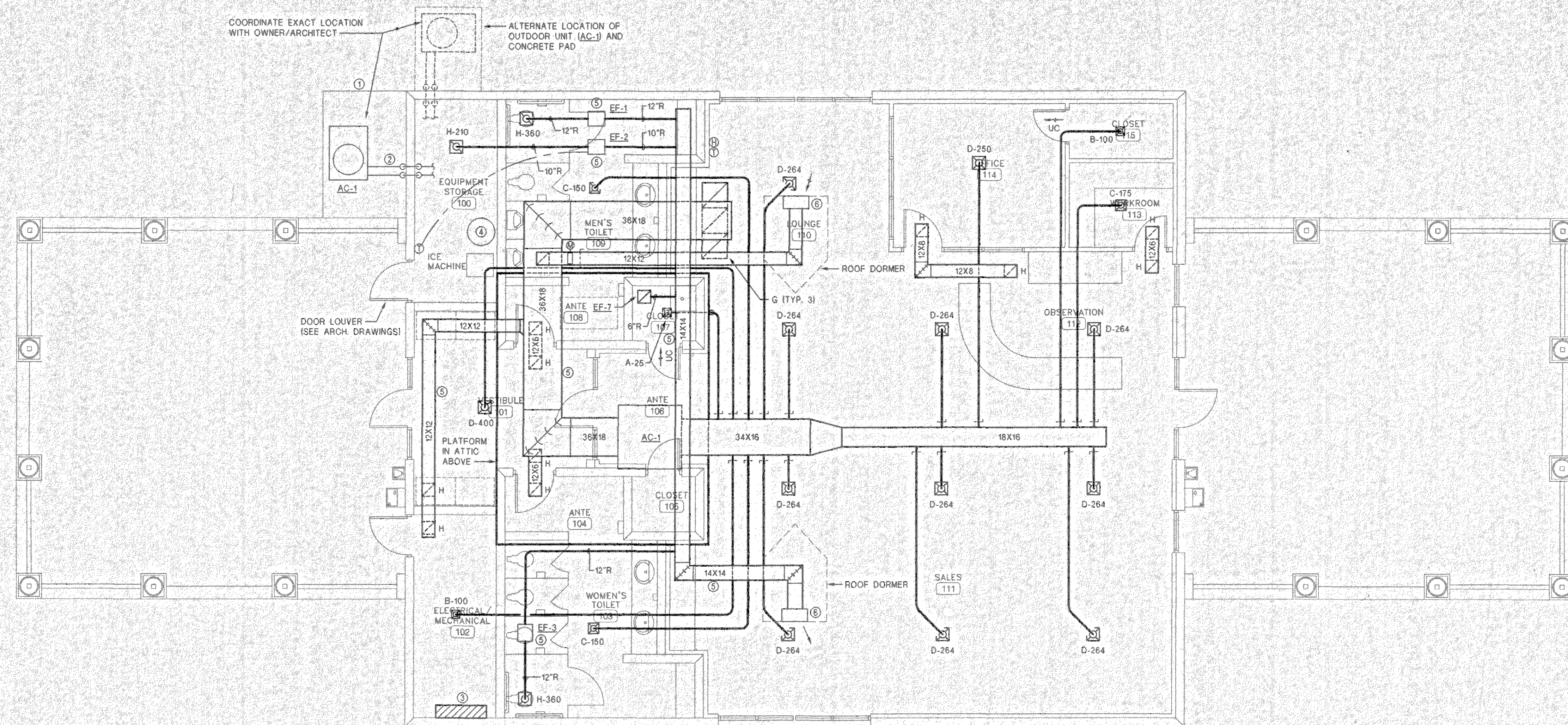
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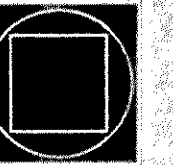


**TENNIS CENTER MECHANICAL PLAN**  
SCALE: 3/16"=1'-0"

NOTE:  
CONTRACTOR MAY USE DUCTBOARD IN  
LIEU OF SHEET METAL DUCTWORK.

**NOTE LEGEND: (THIS SHEET ONLY)**

- ① 4" THICK LEVEL CONCRETE PAD BY G.C.
- ② REFRIGERANT LINES & CONTROL WIRING FROM OUTDOOR UNIT TO ASSOCIATED INDOOR UNIT. COVER EXTERIOR REFRIGERANT PIPING W/ALUMINUM JACKET. INSTALL CONTROL WIRING IN EXTERIOR TYPE CONDUIT. MAX. LENGTH OF FLEX. CONDUIT SHALL BE 3'-0"
- ③ ELEC. PANEL. MAINTAIN MIN. 36" CLEARANCE IN FRONT OF PANELS. DUCTS OR PIPING SHALL NOT RUN ABOVE PANEL. COORDINATE W/ELEC. CONTRACTOR. SEE ELECTRICAL DRAWINGS.
- ④ WATER HEATER. SEE PLUMBING DRAWINGS.
- ⑤ INSTALL IN ATTIC.
- ⑥ PROVIDE 24"x24"x12" DEEP LINED SHEET METAL PLENUM BEHIND DORMER. BLANK-OFF UNUSED PORTION OF DORMER - WATER TIGHT.



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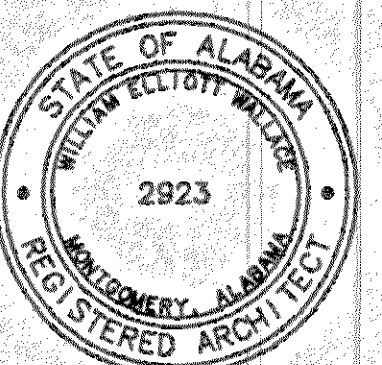
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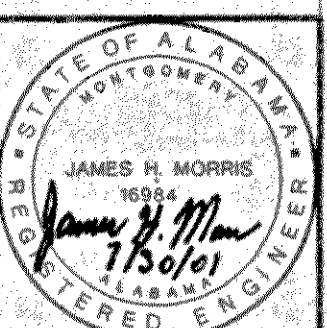
drawn by: JBB

**TENNIS  
CENTER  
MECHANICAL  
PLAN**

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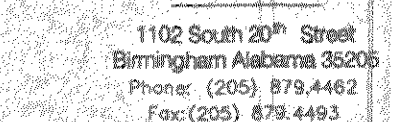
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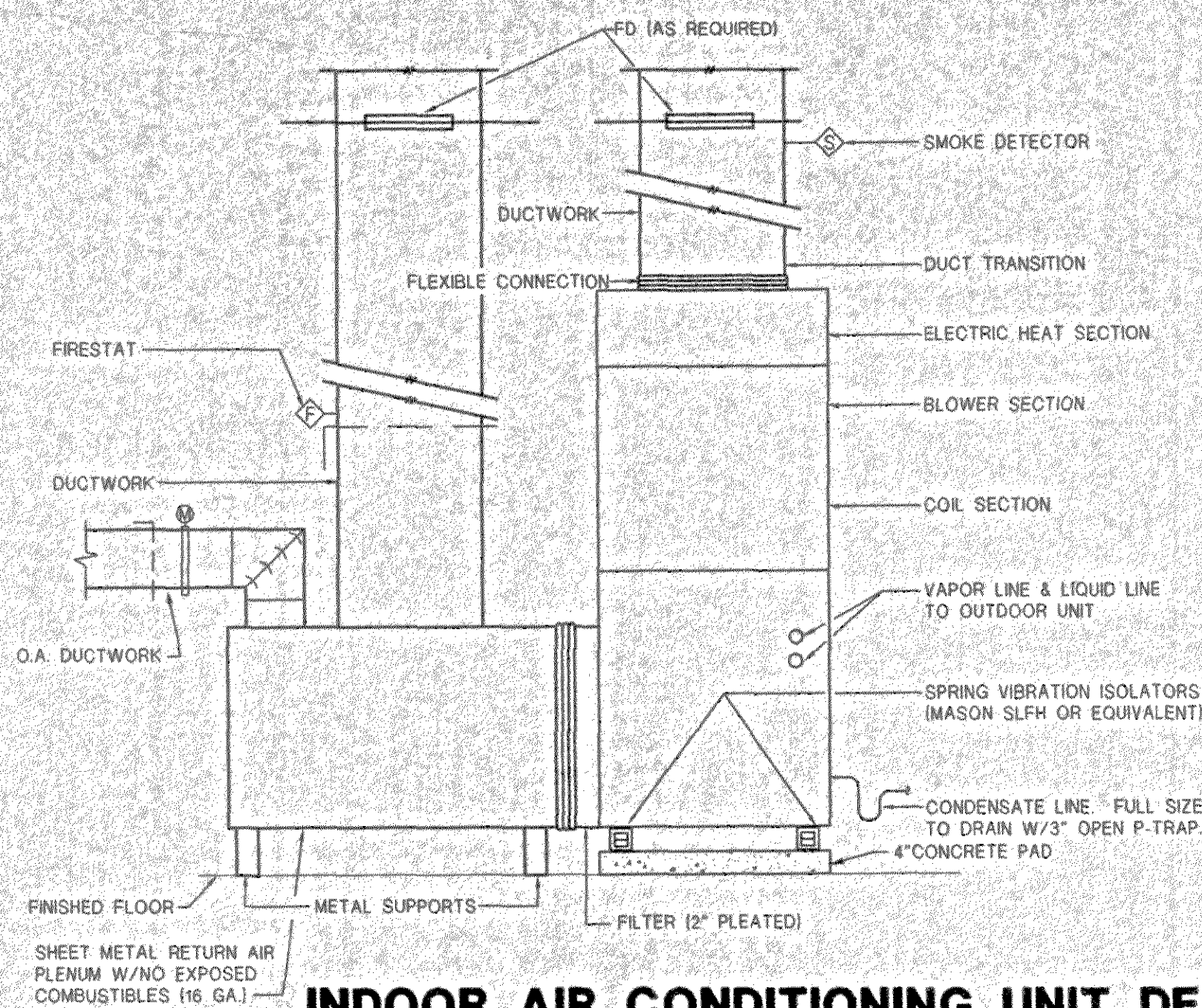


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sheet 28 of 34





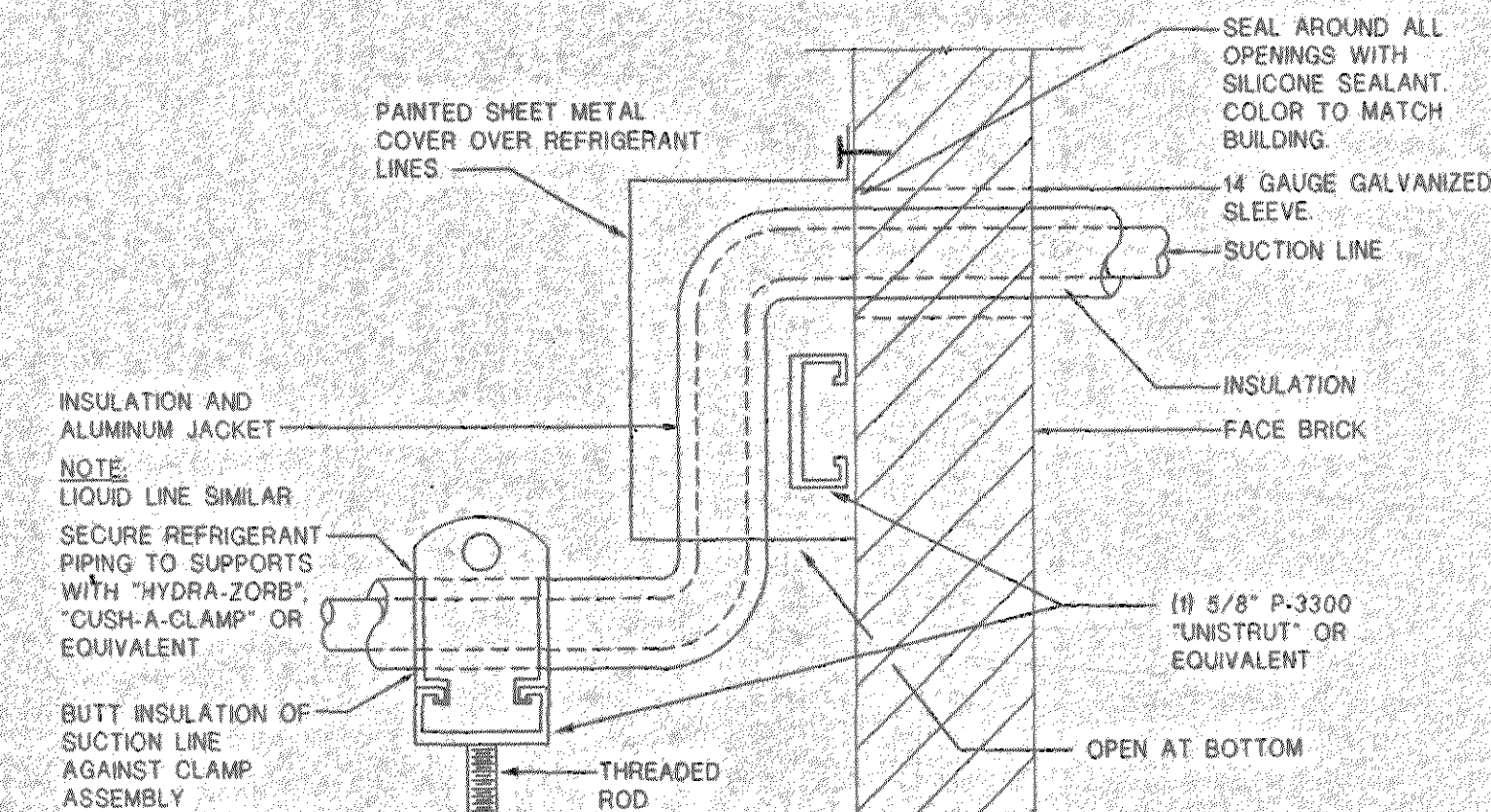




## INDOOR AIR CONDITIONING UNIT DETAIL

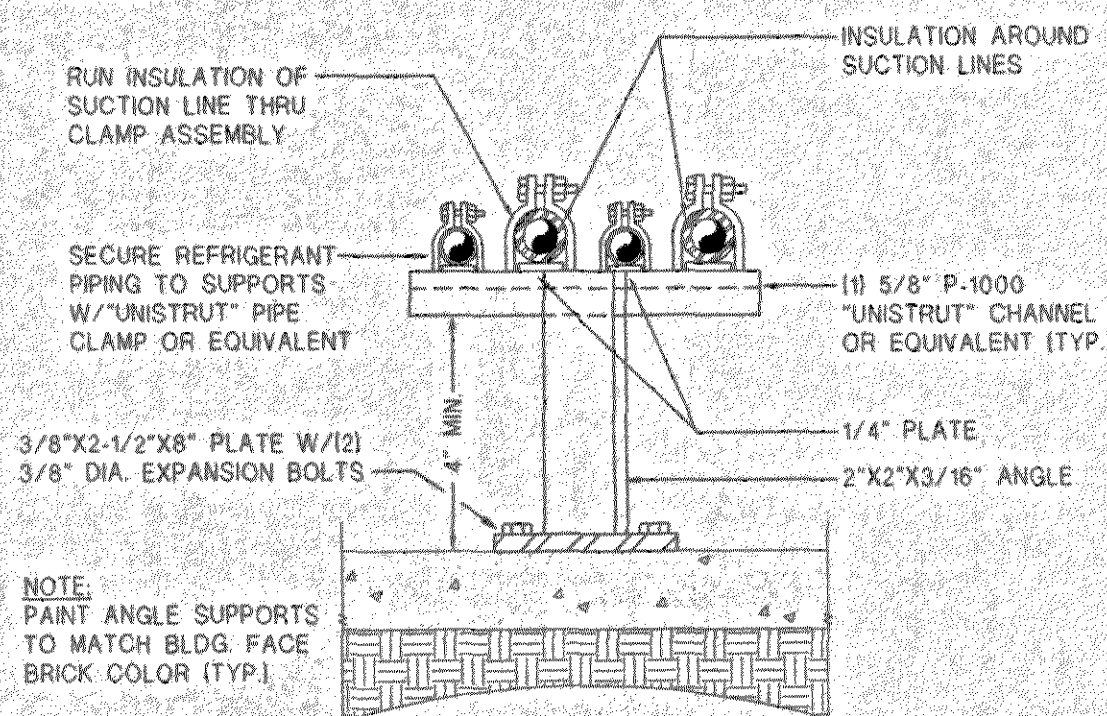
NO SCALE TYP. AC-2

NOTE: PROVIDE AUXILIARY DRAIN PAN. PROVIDE FLOAT MICROSWITCH TO SHUT UNIT OFF IF WATER IS DETECTED.



## REFRIGERANT PIPE SUPPORT AT WALL DETAIL

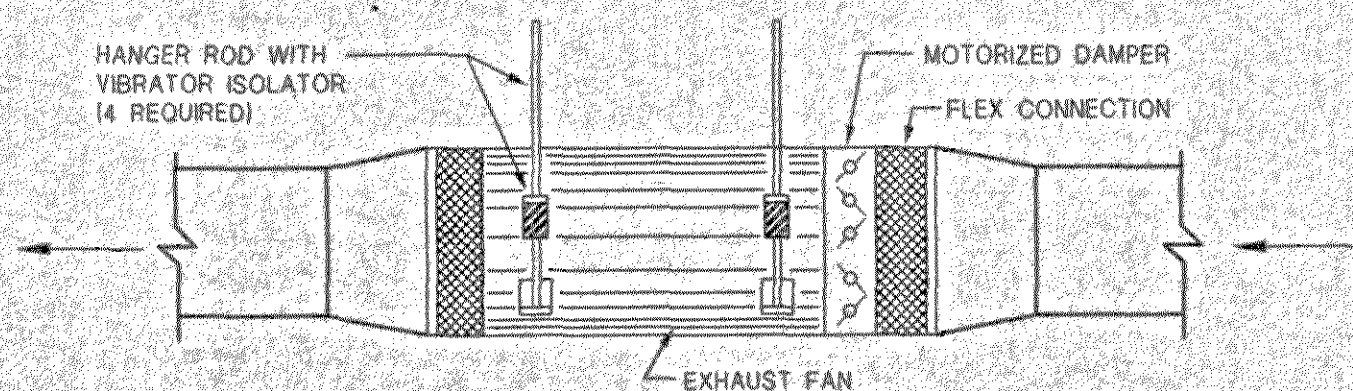
NO SCALE



## EXTERIOR REFRIGERANT PIPE SUPPORT DETAIL

NO SCALE

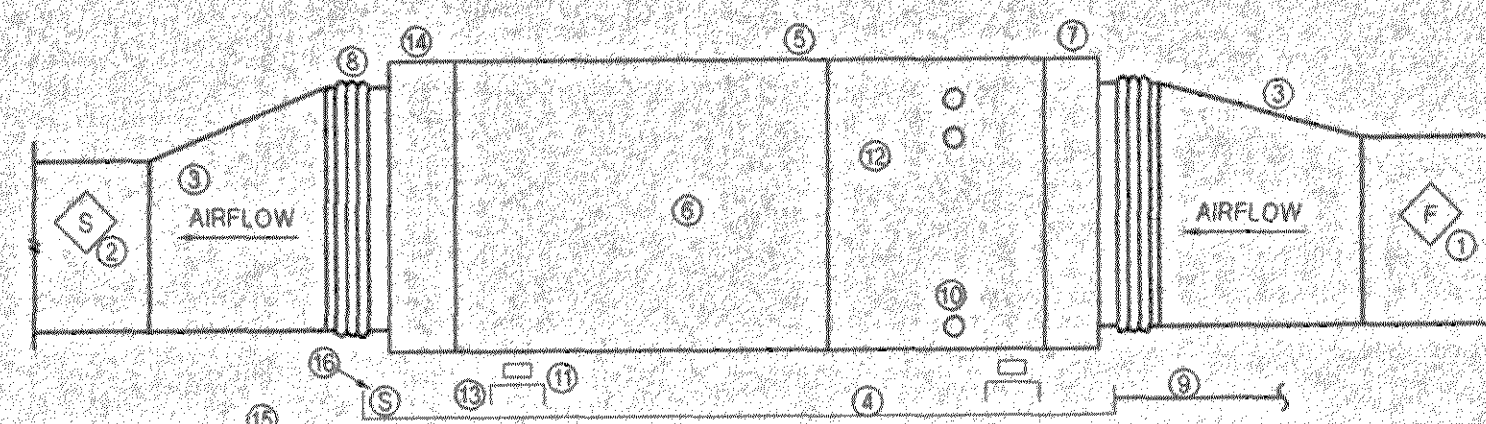
NOTE: PROVIDE PREFAB 90° ELBOW ALUMINUM COVER.



## INLINE EXHAUST FAN DETAIL

NO SCALE TYP. EF-1 EF-2 EF-3 EF-4 EF-5

NOTE:  
1. SUSPEND EXHAUST FAN HIGH AS POSSIBLE FROM STRUCTURE ABOVE  
2. MOTOR SHALL BE INTERNALLY MOUNTED

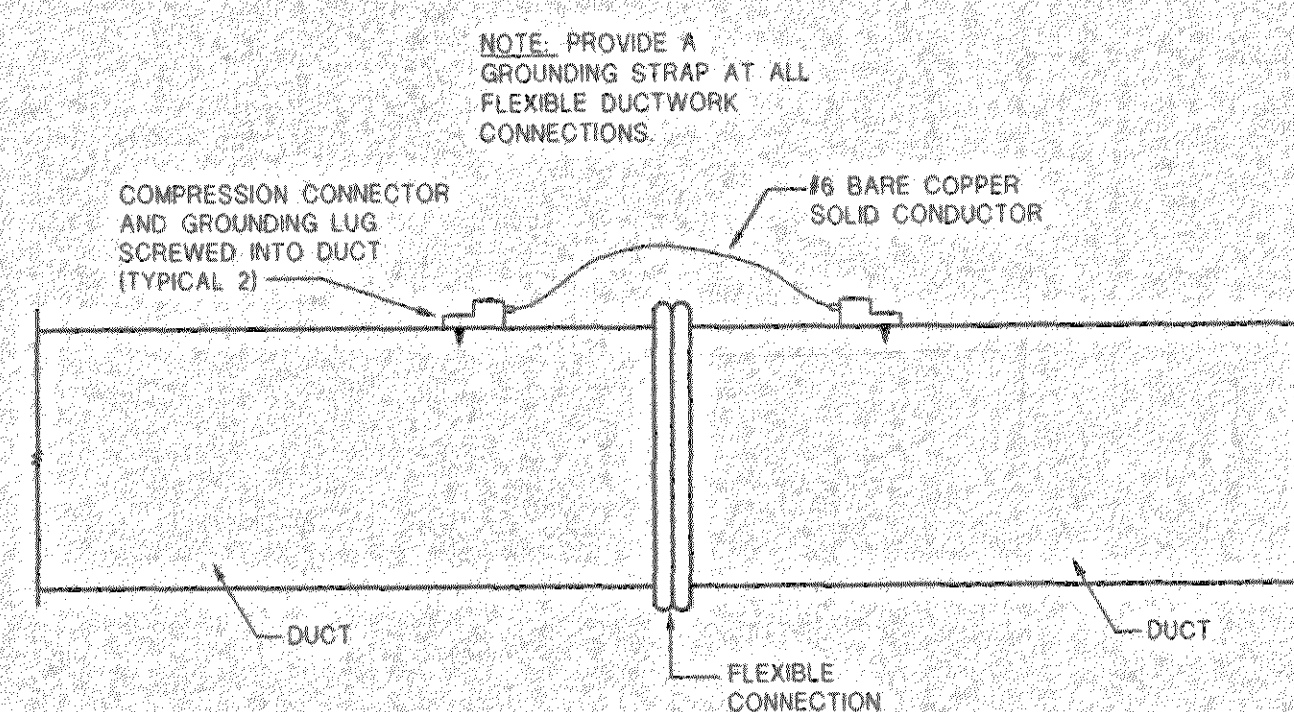


LEGEND: (THIS SHEET ONLY)

- ① FIRESTAT
- ② SMOKE DETECTOR
- ③ DUCTWORK
- ④ AUXILIARY SHEET METAL DRAIN PAN
- ⑤ COIL SECTION
- ⑥ BLOWER SECTION
- ⑦ 1" DISPOSABLE FILTER
- ⑧ FLEXIBLE DUCTWORK
- ⑨ AUXILIARY 3/4" DRAIN TO WEEP HOLE W/ESCUTCHEON PLATE ON NEAR WALL OR SOFFIT SHALL TERMINATE AT CONSPICUOUS POINT.
- ⑩ 3/4" CONDENSATE DRAIN LINE W/3" P-TRAP TO DRAIN
- ⑪ 1/2" NEOPRENE WASER ISOLATION PAD
- ⑫ VAPOR & LIQUID LINES TO OUTDOOR UNIT
- ⑬ U-CHANNEL HEIGHT AS REQUIRED FOR CONDENSATE DRAINAGE
- ⑭ ELECTRIC HEATING SECTION
- ⑮ PLATFORM IN ATTIC
- ⑯ PROVIDE FLOAT MICRO SWITCH TO SHUT UNIT OFF IF WATER IS DETECTED

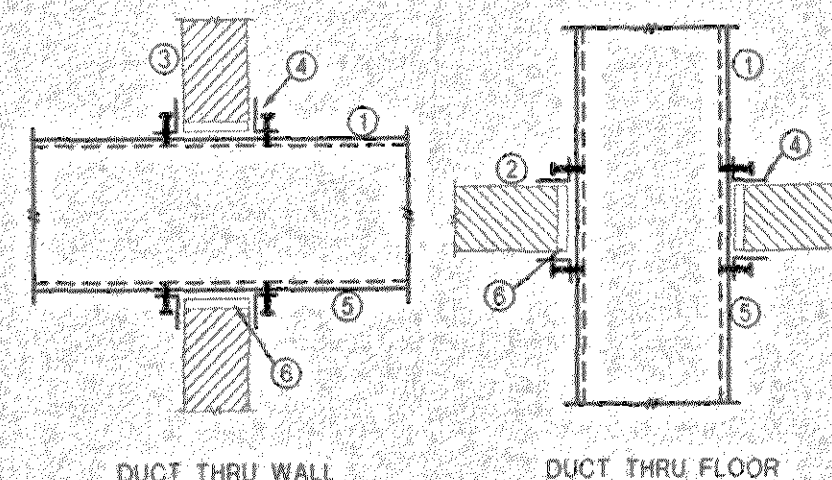
## HORIZONTAL AIR CONDITIONING UNIT DETAIL

NO SCALE TYP. AC-1



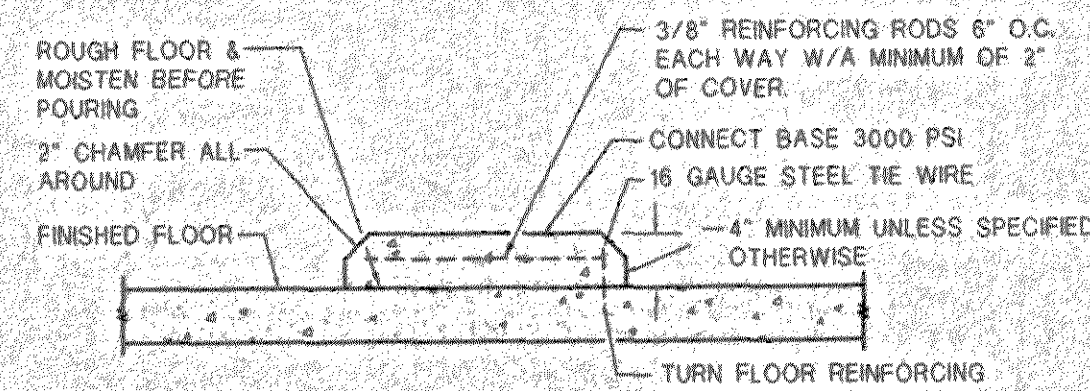
## FLEXIBLE CONNECTION GROUNDING STRAP DETAIL

NO SCALE



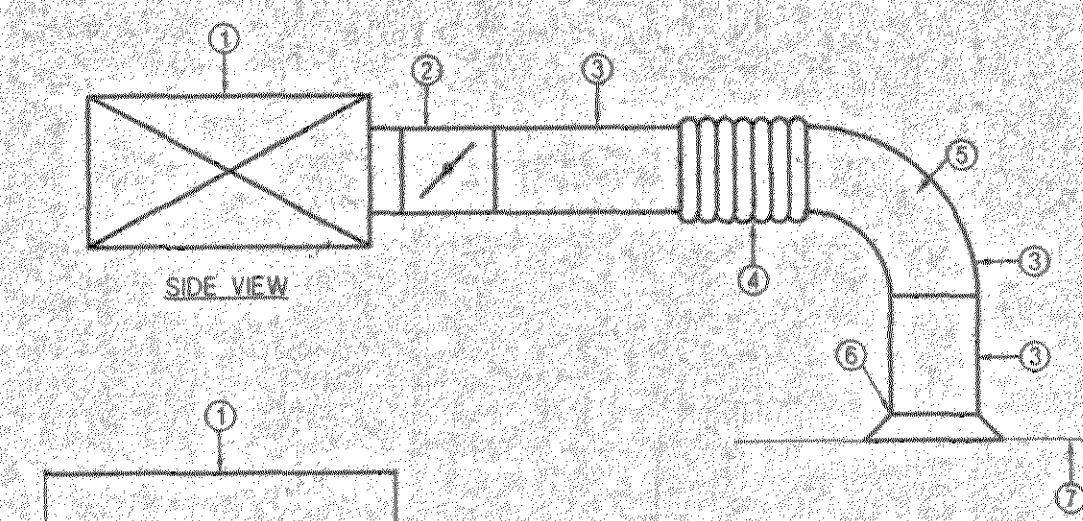
## DUCT THRU NON-RATED STRUCTURE DETAIL

NO SCALE



## FLOOR MOUNTED EQUIPMENT CONCRETE BASE DETAIL

NO SCALE

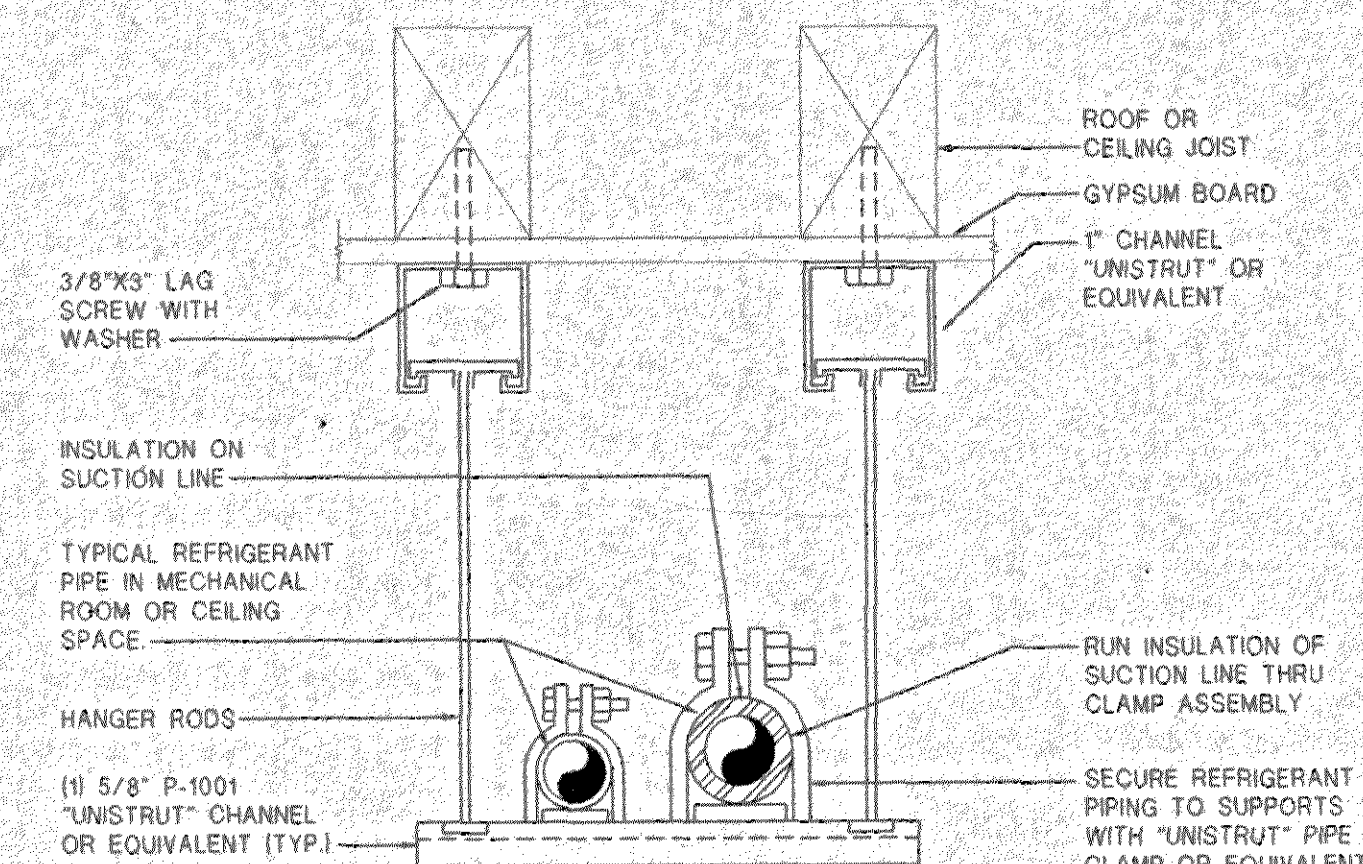


LEGEND: (THIS DETAIL ONLY)

- ① TRUNK DUCT
- ② RECTANGULAR TO ROUND TAKEOFF W/STANDOFF BUTTERFLY DAMPER (ROUGH BALANCING THIS DAMPER)
- ③ ROUND METAL RUNOUT
- ④ FLEXIBLE DUCTWORK (4' MAX.)
- ⑤ FULL RADIUS ELBOW
- ⑥ DIFFUSER
- ⑦ CEILING

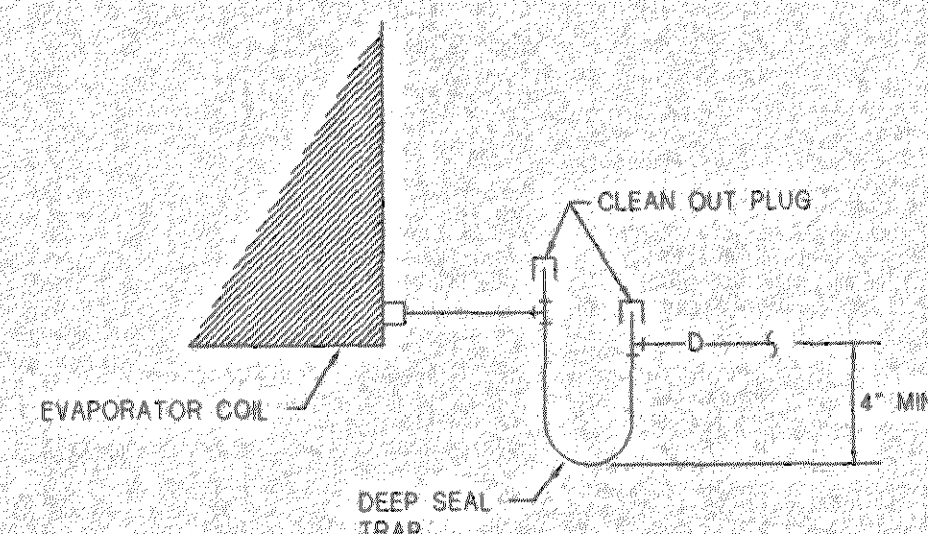
## DIFFUSER RUNOUT DETAIL

NO SCALE



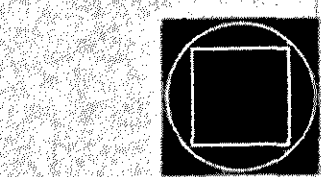
## SUSPENDED REFRIGERANT PIPE SUPPORT AT CEILING DETAIL

NO SCALE



## AC CONDENSATE DRAIN DETAIL

NO SCALE TYP. ALL AIR CONDITIONING UNITS



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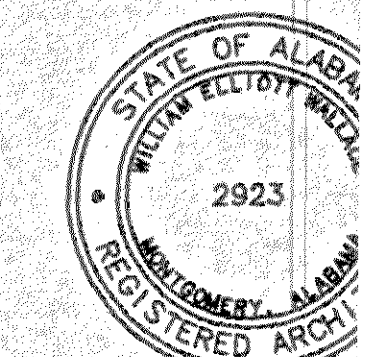
125 Interstate Park Drive, P.O. Box  
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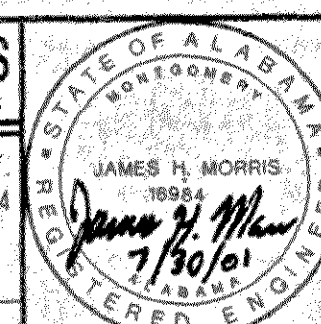


Issue do  
Construction Dwg 7.2

drawn by: JBB

MECHANICAL  
DETAILS

BORDEN & MORRIS  
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TEL. 334-269-0329  
FAX. 334-269-1559  
CAD NAME: 0149-M3



M2.0  
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MECHANICAL LEGEND	
SYMBOL	DESCRIPTION
	DUCTWORK, DOUBLE LINE AND SINGLE LINE DIMENSIONS ARE NET FREE AREA.
	SUPPLY DUCTWORK, DIMENSIONS ARE NET FREE AREA.
	RETURN OR EXHAUST DUCTWORK DIMENSIONS ARE NET FREE AREA.
	DUCTWORK RISE (R) OR DROP (D) ARROW SHOWS DIRECTION OF FLOW.
	TRANSITION, 4:1 RATIO FOR LOW PRESSURE, 7:1 RATIO FOR HIGH PRESSURE.
	ELBOW TURNED UP WITH TURNING VANES.
	ELBOW TURNED DOWN WITH TURNING VANES.
	ROUND DUCT TURNED DOWN.
	ROUND DUCT TURNED UP.
	SQUARE TYPE ELBOW WITH DOUBLE THICKNESS VANES. VANES REQUIRED IN ALL DUCTWORK ELBOWS UNLESS NOTED OTHERWISE.
	MANUAL VOLUME DAMPER (MVD).
	MOTOR OPERATED DAMPER (MOD) ALL MOD SHALL HAVE 12X12 AP UNLESS NOTED OTHERWISE.
	FLEXIBLE DUCTWORK CONNECTION (FC).
	DIFFUSER WITH HARD SUPPLY DUCTWORK AND FLEXIBLE DUCTWORK TO DIFFUSER.
	RETURN OR EXHAUST REGISTER OR GRILLE.
	RECTANGULAR TO ROUND TAKEOFF AND DAMPER W/STANDOFF BRACKET.
	PIPE TURNED DOWN.
	PIPE TURNED UP.
	THERMOSTAT.
	HUMIDISTAT.

- MECHANICAL GENERAL NOTES
- THESE DRAWINGS ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE HVAC SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTENANCES, AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED WITH, ANY ITEMS AND LABOR REQUIRED FOR A COMPLETE HVAC SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS, AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF THE OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
  - COORDINATE DUCTWORK AND PIPING WITH STRUCTURAL, PLUMBING, AND ELECTRICAL. MAKE OFFSETS AND TRANSITIONS TO COORDINATE WITH OTHER TRADES WITHOUT ANY ADDITIONAL COST TO THE OWNER.
  - REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED AIR DISTRIBUTION DEVICES. COORDINATE EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS WITH ARCHITECTURAL AND INTERIOR REFLECTED CEILING PLANS AND LIGHT FIXTURES. IF A PARTICULAR ITEM IS NOT SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN, PREPARE A DRAWING AND PRESENT IT TO THE ARCHITECT FOR THEIR REVIEW AND/OR APPROVAL.
  - ALL DUCT TRANSITIONS FROM SQUARE TO ROUND SHALL BE SMOOTH SQUARE TO ROUND TRANSITIONS. SPIN-IN FITTINGS AT THE END OF CAPPED DUCTS ARE NOT ACCEPTABLE.
  - PORTIONS OF DUCTWORK VISIBLE THROUGH GRILLES, REGISTERS, AND DIFFUSERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
  - ALL FAN MOTORS 1/8 HP AND ABOVE SHALL HAVE A DISCONNECT SWITCH MOUNTED AT THE FAN.
  - MOUNT THERMOSTATS WHERE INDICATED ON PLANS, 48" AFF UNLESS NOTED OTHERWISE. SEE MECHANICAL DRAWING FOR LOCATIONS. WHERE THERE IS A CONFLICT OF LOCATIONS BETWEEN THE DRAWINGS, NOTIFY ARCHITECT IMMEDIATELY.
  - ALL BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE DIFFUSER SERVED UNLESS NOTED OTHERWISE.
  - PROVIDE INTERNAL INSULATION (1" THICK, 15 LB DENSITY) W/26 GAUGE PERFORATED SHEET METAL INNER WALL FOR RECTANGULAR SUPPLY, RETURN, AND OUTDOOR AIR DUCTS WITHIN 20' OF EACH INDOOR AIR HANDLING UNIT, FAN, ETC. ALL OTHER DUCTWORK SHALL BE INSULATED WITH 2" THICK, FOIL BACKED 3/4 LB. DENSITY BLANKET INSULATION UNLESS NOTED OTHERWISE.
  - INSTALL AN IONIZATION TYPE SMOKE DETECTOR IN THE SUPPLY AIR DUCT OF EACH AIR HANDLING UNIT & SUPPLY FAN.
  - CONDENSATE DRAIN LINES RUNNING HORIZONTALLY SHALL BE SLOPED 1/4" PER FOOT DOWN IN THE DIRECTION OF FLOW AS INDICATED. ALL CONDENSATE LINES SHALL BE INSULATED.
  - DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR, ADJUST FOR LINER, ETC.
  - IN ADDITION TO OFFSETS IN DUCTWORK SHOWN, PROVIDE OFFSETS REQUIRED TO MAINTAIN TOP OF DUCT AND PIPE TIGHT TO STRUCTURE.
  - DUCTS AND EQUIPMENT WITH STANDING BRACES SHALL BE ARRANGED SO THAT THE BRACES WILL NOT BE OVER LIGHTS OR UNDER BEAMS IN AREAS WHERE THE CLEARANCE BETWEEN LIGHTS, AND BEAMS IS LIMITED.
  - EACH CEILING DIFFUSER INDICATED SHALL HAVE A RECTANGULAR TO ROUND TAKEOFF W/STANDOFF BRACKET AND MANUAL VOLUME CONTROL DAMPER AT THE SHEET METAL TRUNK DUCT SUCH THAT AIR BALANCING OF THE SYSTEM CAN BE ACCOMPLISHED.
  - DUCTWORK SHALL BE IN ACCORDANCE WITH SMACNA STANDARD. SEAL ALL JOINTS WITH HARD-CAST.
  - VERIFY EXACT LOCATION OF CONTROLS AND THERMOSTATS WITH ARCHITECT BEFORE WIRING AND INSTALLATION.
  - COORDINATE LOCATION OF ALL DRAINS REQUIRED FOR MECHANICAL EQUIPMENT WITH PLUMBING CONTRACTOR TO INSURE PROPER LOCATION FOR SERVICE TO EQUIPMENT.
  - THE MECHANICAL CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ALL WALL, FLOOR, AND ROOF OPENINGS (DIMENSIONS AND LOCATIONS). THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OPENINGS IN THE STRUCTURE.
  - PROVIDE A UL LISTED DYNAMIC FIRE DAMPER ASSEMBLY AT ALL DUCTWORK PENETRATIONS OF FIRE RATED WALLS OR CEILINGS.

AIR DISTRIBUTION SCHEDULE					
SYMBOL	MAX NC	MAX VEL	MODEL	DESCRIPTION	REMARKS
A	25	500	TITUS 250-AA	CURVED BLADE DIFFUSER (6"X6" UNLESS NOTED OTHERWISE)	1,2,3,4,5,6
B	25	500	TITUS 250-AA	CURVED BLADE DIFFUSER (8"X8" UNLESS NOTED OTHERWISE)	1,2,3,4,5,7
C	25	500	TITUS 250-AA	CURVED BLADE DIFFUSER (10"X10" UNLESS NOTED OTHERWISE)	1,2,3,4,5,8
D	25	500	TITUS 250-AA	CURVED BLADE DIFFUSER (12"X12" UNLESS NOTED OTHERWISE)	1,2,3,4,5,9
E	25	500	TITUS 250-AA	CURVED BLADE DIFFUSER (14"X14" UNLESS NOTED OTHERWISE)	1,2,3,4,5,10
F	25	500	TITUS 50F	1/2"X1/2"X1/2" EGGRATE GRILLE (24"X12" UNLESS NOTED OTHERWISE)	1,2,4,15
G	25	500	TITUS 50F	1/2"X1/2"X1/2" EGGRATE GRILLE (24"X24" UNLESS NOTED OTHERWISE)	1,2,3,4,11,12
H	25	500	TITUS 50F	1/2"X1/2"X1/2" EGGRATE GRILLE (12"X12" UNLESS NOTED OTHERWISE)	1,2,3,4,5,10

- OFF-WHITE FINISH. VERIFY W/ARCH. BEFORE ORDERING.
- REFER TO ARCHITECTURAL DWGS. FOR EXACT LOCATION.
- EXTEND 24"X24" PANEL IN LAY-IN CEILING. SURFACE MTD. IN GYP. BOARD CEILING. SEE ARCH. REFLECTED GLG. PLANS.
- OPPOSED BLADE DAMPER W/EXTERNAL ADJUSTMENT.
- TRANSITION ADAPTER AS REQUIRED ROUND TO REC. OR REC. TO REC. OR ROUND TO ROUND.
- PROVIDE 6" RUNOUT UNLESS NOTED OTHERWISE.
- PROVIDE 8" RUNOUT UNLESS NOTED OTHERWISE.
- PROVIDE 10" RUNOUT UNLESS NOTED OTHERWISE.
- PROVIDE 12" RUNOUT UNLESS NOTED OTHERWISE.
- PROVIDE 14" RUNOUT UNLESS NOTED OTHERWISE.
- PROVIDE 18" RUNOUT UNLESS NOTED OTHERWISE.
- G.C. SHALL PROVIDE EXTRA T-BAR IN CEILING FOR LAY-IN INSTALLATION.

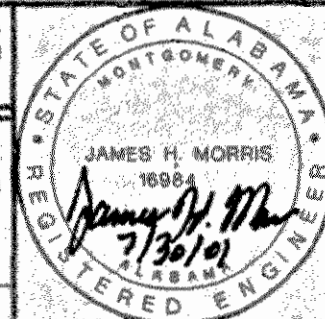
AIR CONDITIONING UNIT SCHEDULE											
SYMBOL	EVAP FAN				COOLING MIN (1)			HEATING MIN		OUTDOOR ELEC	REMARKS
	TOTAL CFM	O.A CFM	EXT. SP "H2O	HP	TOTAL MBH	SEN MBH	EER (2)	ELEC KW	ELEC		
AC-1	4000	400	.5	2	120	84	10	16.7	208/3/60	208/3/60	5,6,8,9,10,11,12,13
AC-2	2700	1860	.5	2	193	105	9.5	30	208/3/60	208/3/60	3,4,5,6,7,9

- (1) CAPACITY BASED ON EDB 95 DEGREES F. & EWB 76 DEGREES F.
- (2) RATED AT 95 DEGREE F. D.B. & 80 DEGREE F. W.B. AIR ENTERING CONDENSER & EVAPORATOR.
- INDOOR UNIT BASED ON ADDISON MODEL HCA/VCA.
- OUTDOOR UNIT BASED ON ADDISON MODEL RCA.
- FACTORY FILTER SECTION W/2" PLEATED FILTER. E-Z FILTER BASE MFG. INC. MODEL EZ OR EQUIVALENT.
- INDOOR & OUTDOOR THERMOSTAT.
- TWO STEP HEATING.
- THREE STEP HEATING.
- PROVIDE SEPARATE POWER CONN. FOR INDOOR BLWER MOTOR & ELEC. STRIP HEATER.
- INDOOR UNIT BASED ON TRANE TWE.
- OUTDOOR UNIT BASED ON TRANE TTA.
- PROVIDE A DUAL CIRCUIT INDOOR UNIT (AC-2) WITH TWO STEP COOLING.
- PROVIDE A DUAL CIRCUIT 10-TON OUTDOOR CONDENSING UNIT (AC-2).

EXHAUST FAN SCHEDULE								
SYMBOL	CFM	EXT. SP. H <sub>2</sub> O	MAX. RPM	SONES	WHEEL DIA.	POWER	ELEC.	REMARKS
EF-1	360	.25	1075	4.2	6"	1/12HP	120/1/60	1,2,3
EF-2	210	.25	1050	1.6	5"	81 W	120/1/60	1,2,6
EF-3	360	.25	1075	4.2	6"	1/12HP	120/1/60	1,2,3
EF-4	930	.25	1075	8.2	8"	1/3HP	120/1/60	1,2,4
EF-5	930	.25	1075	8.2	8"	1/3HP	120/1/60	1,2,4
EF-6	400	.25	1075	7.0	7"	1/6HP	120/1/60	1,2,5
EF-7	50	.25	1070	4.2		60W	120/1/60	2,7

- PROVIDE INLINE EXHAUST FAN. PROVIDE BACKDRAFT DAMPER, SPEED CONTROLLER, & THE AMCA SEAL.
- COOK MODEL GEMINI OR APPROVED EQUIVALENT.
- INTERLOCK WITH AC-1.
- INTERLOCK WITH AC-2.
- CONTROLLED BY SWITCH.
- CONTROLLED BY THERMOSTAT.
- INTERLOCK WITH LIGHTS.

**BORDEN & MORRIS**  
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CAD NAME: 0149-M4

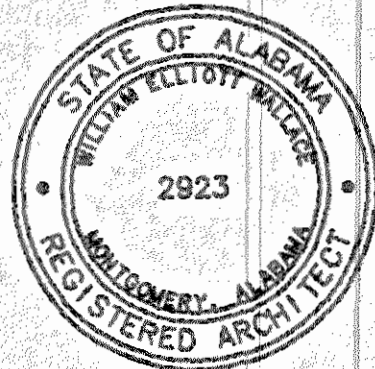


**M2.02**  
sheet 31 of 34

**GOODWYN, MILLS & CAWOOD, Inc.**  
ENGINEERING  
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LANDSCAPE ARCHITECTURE  
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1102 South 20<sup>th</sup> Street  
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**POOL & TENNIS CENTER**  
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alabama

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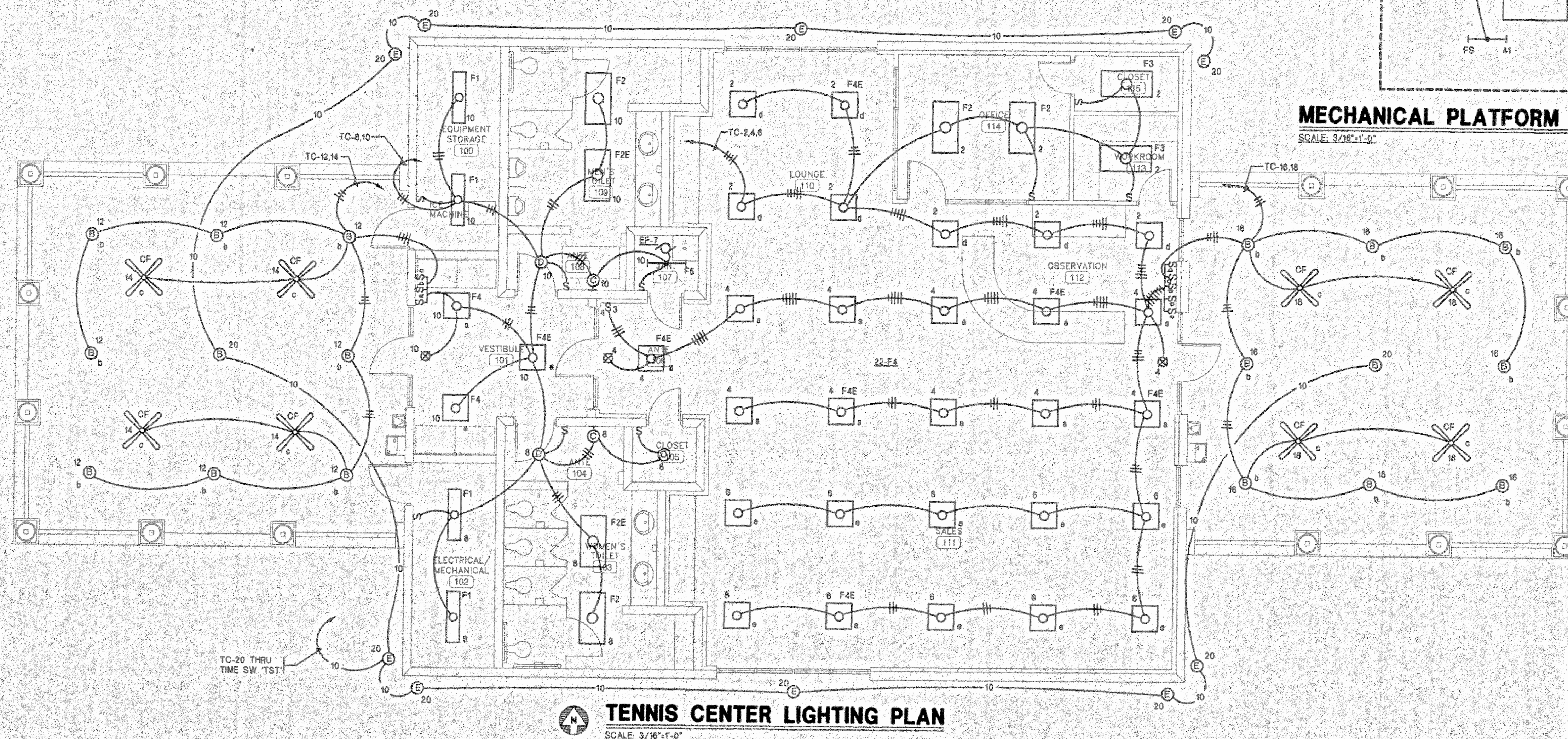
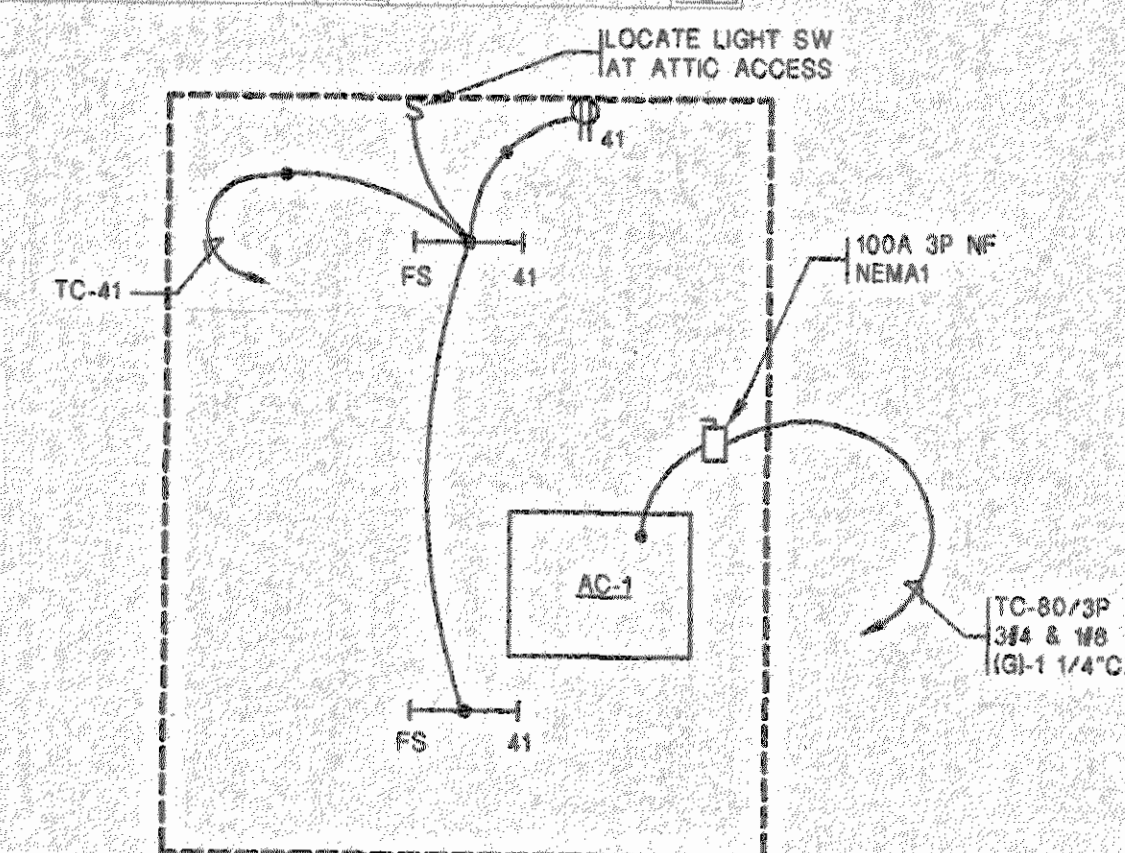
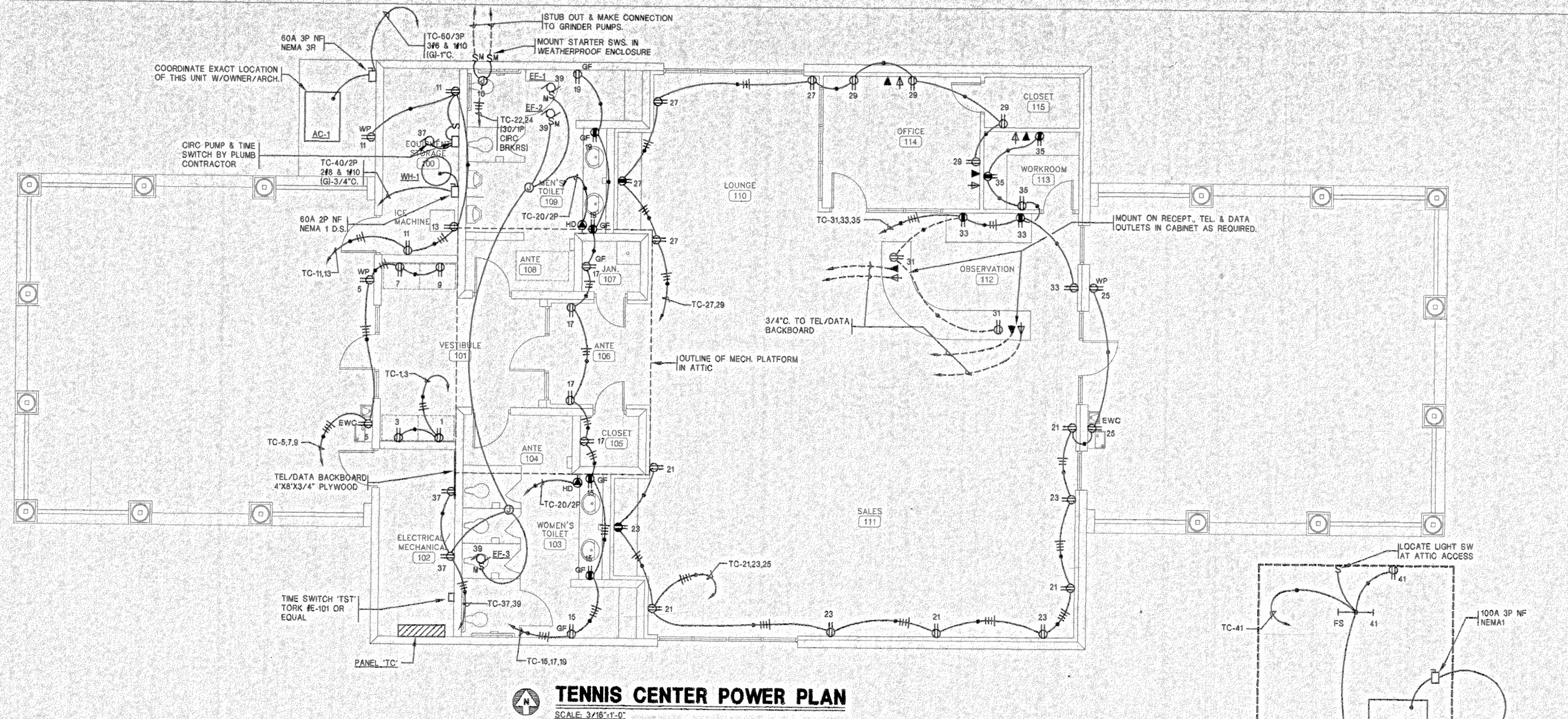


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**MECHANICAL SCHEDULES**





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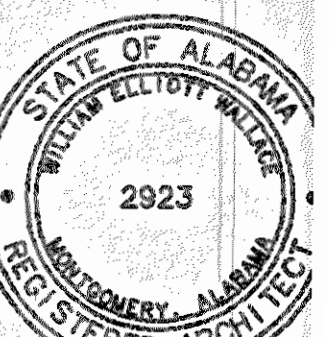
125 Interstate Park Drive, P O Box 3  
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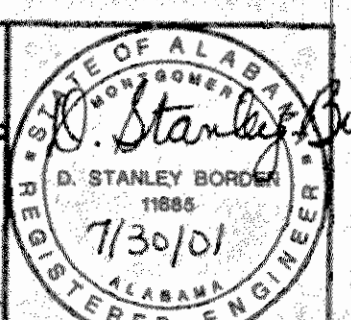
**issue | date**

Construction Dwgs	7.27.01
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drawn by: SJ

## TENNIS CENT LIGHTING & POWER PLAN


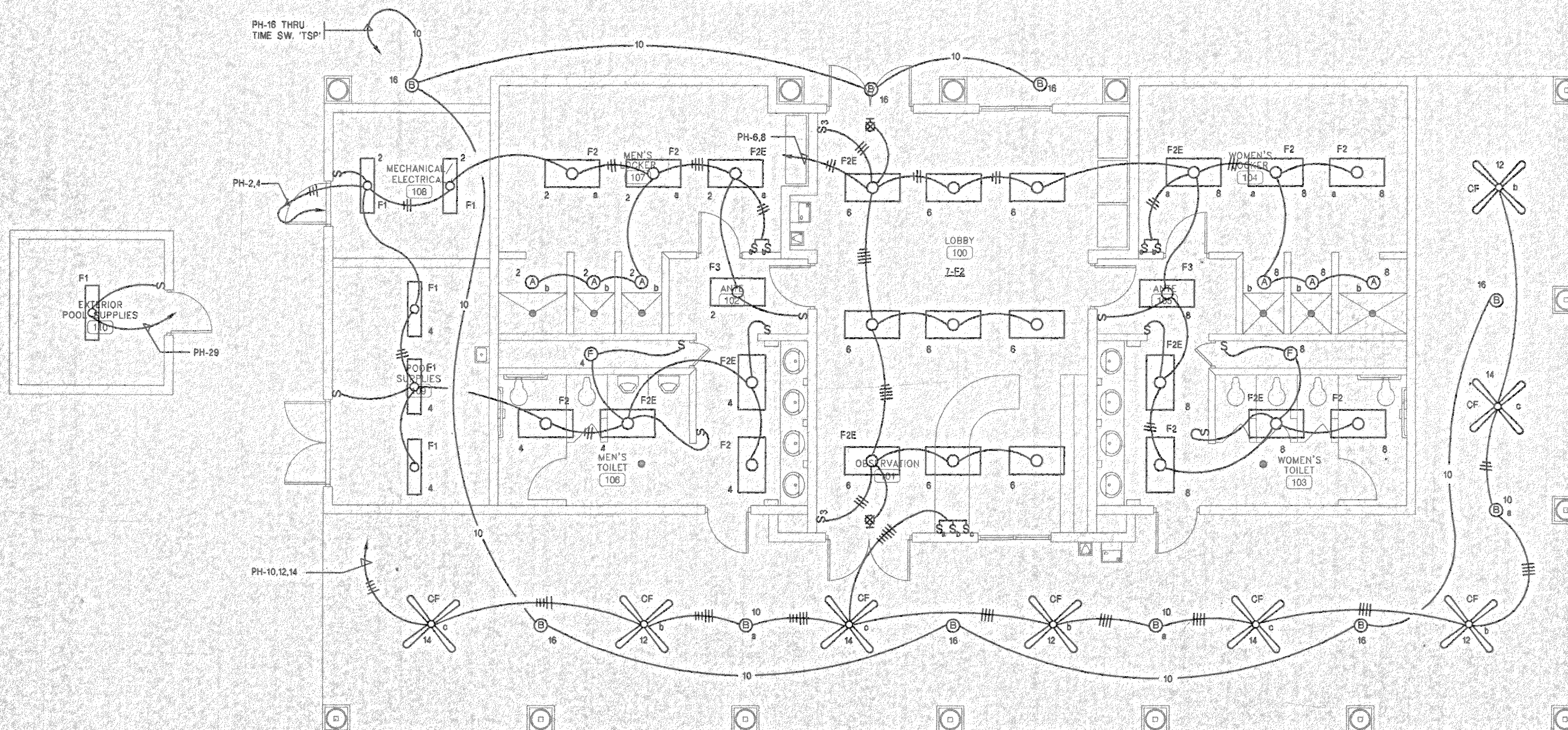
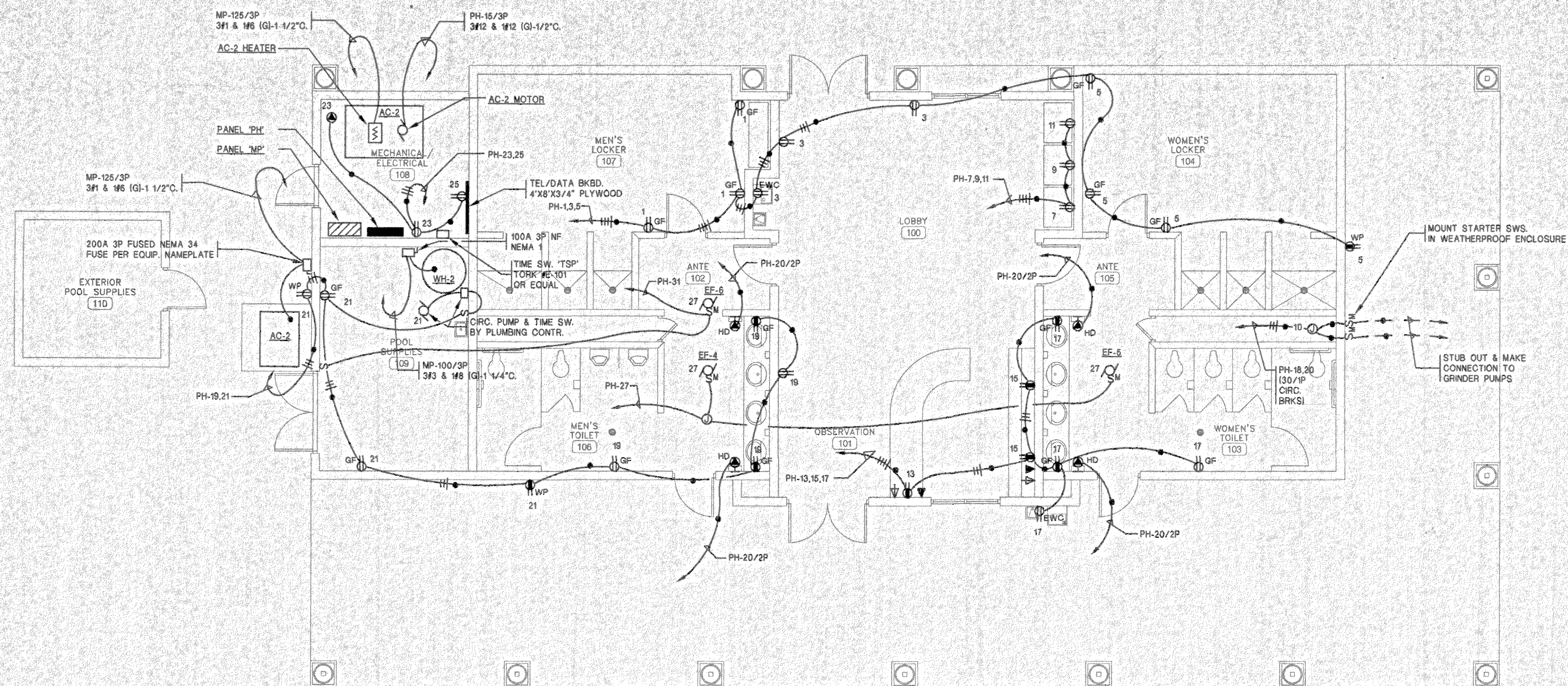
**BORDEN & MORRIS**  
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## E1.01

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& IN  
CAWOOD, IN

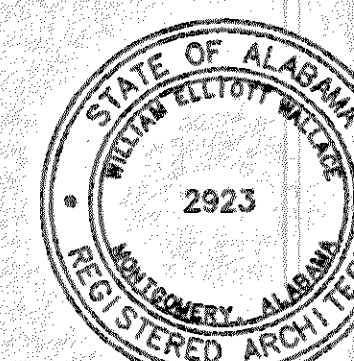
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Beach

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Issue | date

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drawn by: BL

## POOL HOUSE LIGHTING & POWER PLAN

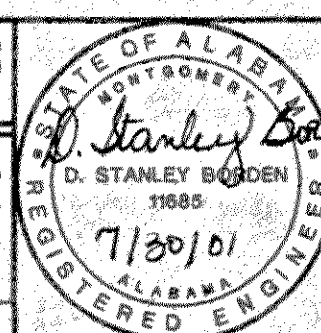
## E2.01

sheet 33 of 34

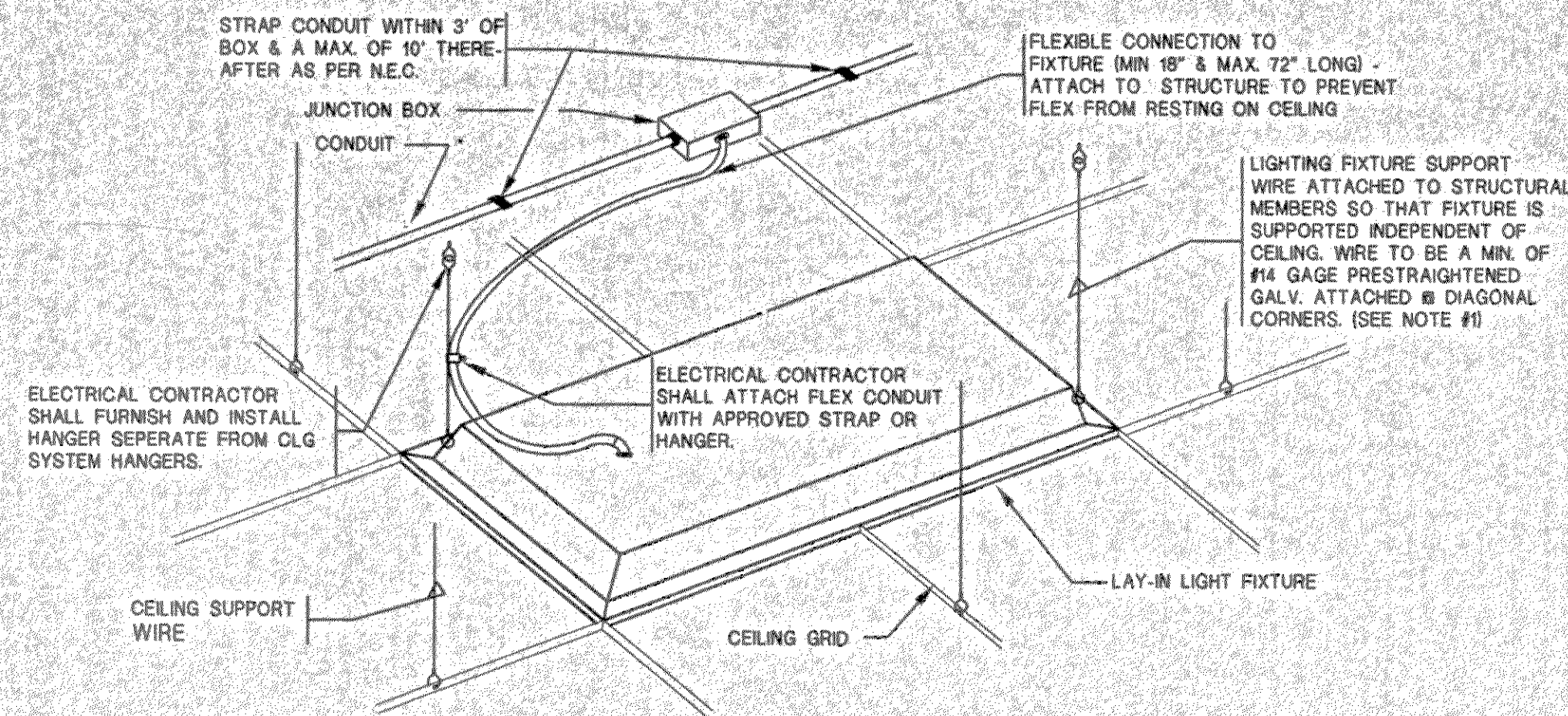
**BORDEN & MORRIS**  
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TEL. 334-269-0329  
FAX. 334-269-1559

CAD NAME: 0149-E



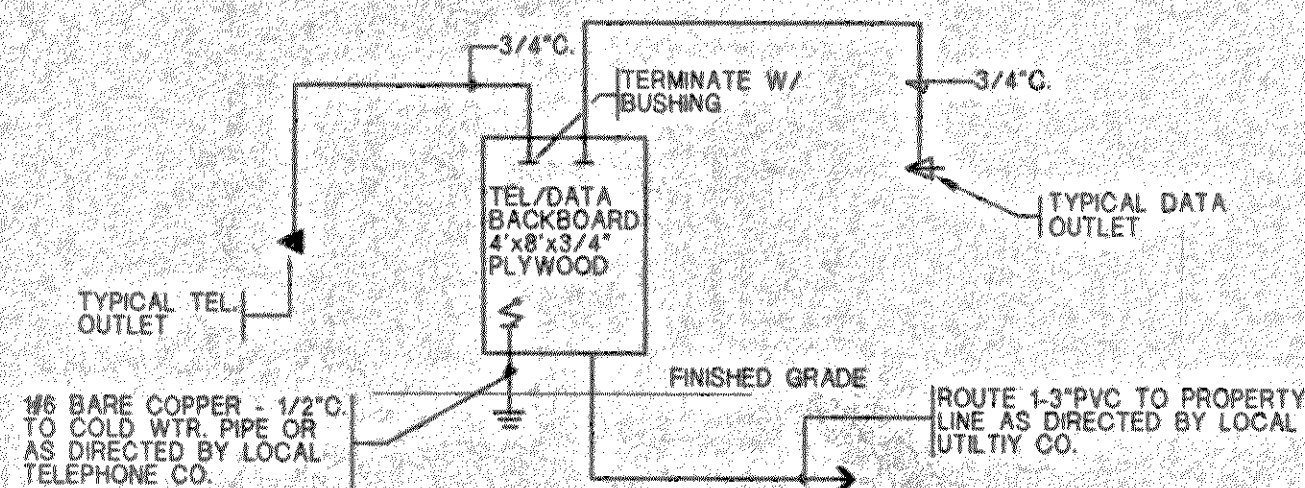




## LAY-IN FIXTURE SUPPORT DETAIL

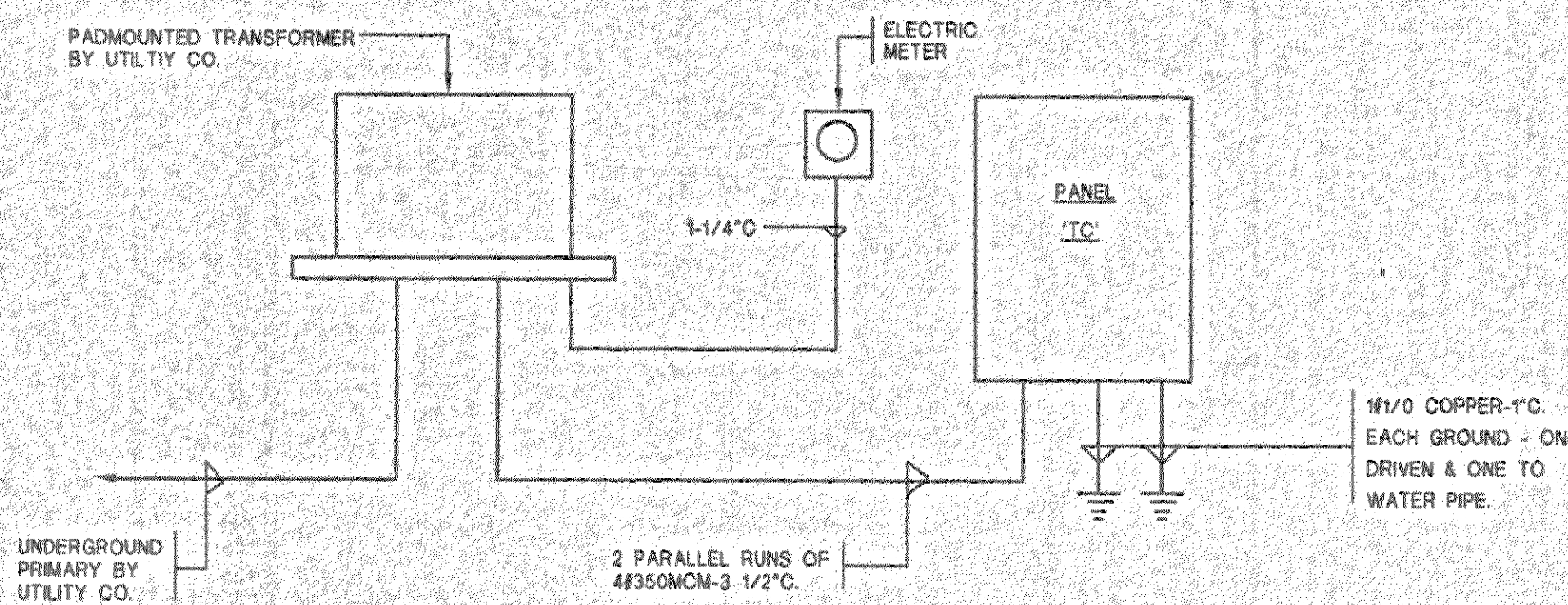
NO SCALE  
NOTE:

1. SUPPORT WIRE TO BE INSTALLED IN SUCH A MANNER THAT WEIGHT OF FIXTURE IS HELD INDEPENDENT OF CLG. GRID THEREFORE WIRES MUST BE TIGHT WITH NO SLACK.
2. FLEXIBLE CONNECTION FROM FIXTURE TO JUNCTION BOX MUST BE MIN. 18" & MAX. 72" LONG.



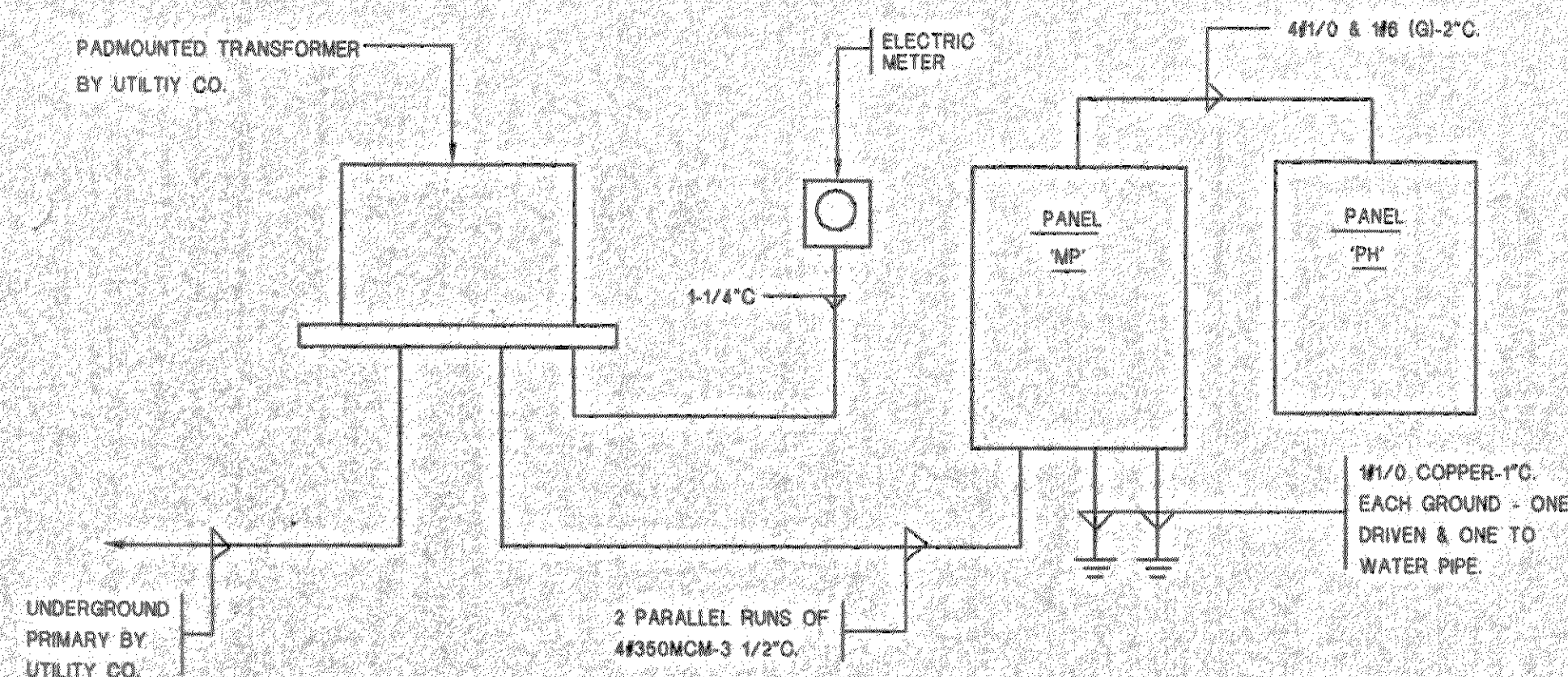
## TEL/DATA RISER DIAGRAM (TYPICAL FOR POOL & TENNIS BLDG)

NO SCALE



## POWER RISER DIAGRAM - TENNIS CENTER

NO SCALE



## POWER RISER DIAGRAM - POOL HOUSE

NO SCALE

## LIGHTING FIXTURE SCHEDULE

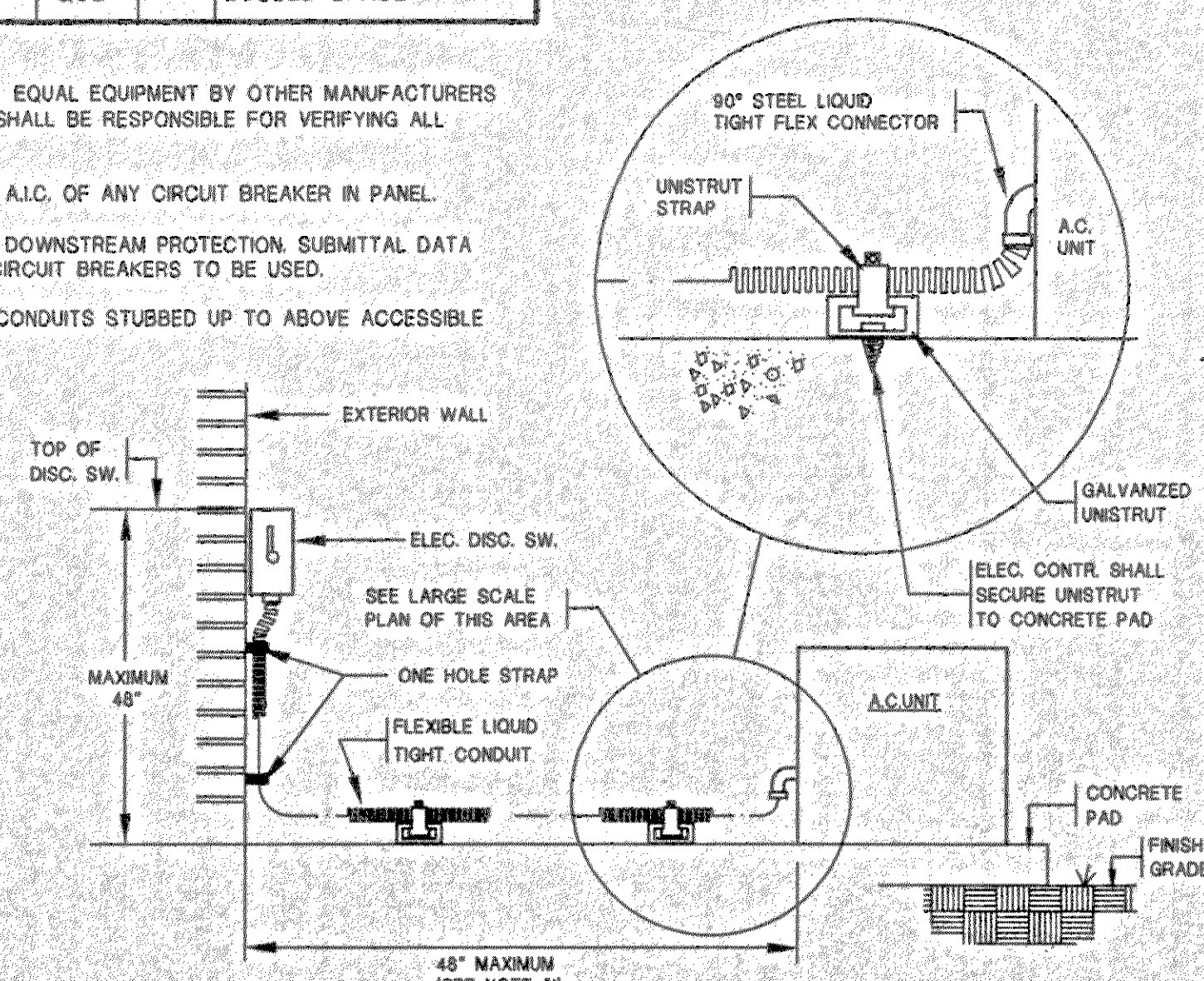
SYMBOL	MANUFACTURER & CAT. #	LAMPS	WATTS	MOUNTING	VOLTS	REMARKS
A	PRESCOLITE #TBXIC-TL40 EQUALS BY: LITHONIA INFINITY	1-26TT 35K	35	RECESSED CEILING	120	IMPACT RESISTANT SHOWER LIGHT. WET LOCATION LABEL.
B	PRESCOLITE #HBX100-HO71S EQUALS BY: LITHONIA INFINITY	1-100W MH	125	RECESSED CEILING	120	METAL HALIDE OPEN DOWNLIGHT WITH CLEAR ALZAK REFLECTOR, DAMP LOCATION.
C	KENALL #MR13CLP-CC-32P1-120 EQUALS BY: LITHONIA INFINITY	1-32W PLT	40	SURFACE WALL 6'-6" AFF	120	13" ROUND X 4" DEEP POLYCARBONATE. COLOR TO BE SELECTED BY ARCHITECT.
CF	FASCO #452 EQUALS BY: PATTON HUNTER			SURFACE CEILING HUGGER TYPE	120	52" 6 BLADE CEILING FAN SUITABLE FOR EXTERIOR PROTECTED. VERIFY COLOR AND MOUNTING WITH ARCHITECT.
D	PRESCOLITE #TBXIC-T095 EQUALS BY: LITHONIA INFINITY	1-32TT 35K	40	RECESSED CEILING	120	COMPACT FLUORESCENT DOWNLIGHT WITH CLEAR ALZAK REFLECTOR.
E	PRESCOLITE #H4-T42C EQUALS BY: LITHONIA INFINITY	1-75W PAR 16	75	RECESSED CEILING	120	SMALL APERTURE DOWNLIGHT WITH CLEAR ALZAK REFLECTOR & DAMP LOCATION.
F	PAULDING #1625 EQUALS BY: LEVITON HUBBELL	1-100A	100	SURFACE CEILING	120	PORCELAIN LAMPHOLDER
F1	COLUMBIA #LUN4-232-EB8120 EQUALS BY: LITHONIA WILLIAMS	2-F032 835	70	SURFACE CEILING	120	ENCLOSED FIBERGLASS HOUSING, 4' LONG.
F2	COLUMBIA #4PS24-432G-FAA12.125-EB8120-DL-SLL EQUALS BY: LITHONIA WILLIAMS	4-F032 835	140	RECESSED CEILING	120	2X4 GRID TROFFER, 125 MIN. PRISMATIC LENS, WHITE FLUSH ALUMINUM DOOR FRAME, SPRING LOADED LATCHES. DAMP LOCATION.
F2E	COLUMBIA #4PS24-432G-FAA12.125-EB8120-DL-SLL-EL EQUALS BY: LITHONIA WILLIAMS	4-F032 835	140	RECESSED CEILING	120	2X4 GRID TROFFER, 125 MIN. PRISMATIC LENS, WHITE FLUSH ALUMINUM DOOR FRAME, SPRING LOADED LATCHES. DAMP LOCATION WITH EMERGENCY BATTERY PACK.
F3	COLUMBIA #4PS24-232G-FAA12.125-EB8120-DL-SLL EQUALS BY: LITHONIA WILLIAMS	2-F032 835	70	RECESSED CEILING	120	SAME AS 'F2' EXCEPT 2 LAMPS.
F4	COLUMBIA #4PS22-340TTG-FAPC2-EBTT120-SLL EQUALS BY: LITHONIA WILLIAMS	3-F40TT	105	RECESSED CEILING	120	2X2 GRID TROFFER, 1 1/2" X 1 1/2" X 1" SILVER POLYSTYRENE LOUVER, WHITE FLUSH ALUMINUM DOOR FRAME, SPRING LOADED LATCHES.
F4E	COLUMBIA #4PS22-340TTG-FAPC2-EBTT120-SLL-EL EQUALS BY: LITHONIA WILLIAMS	3-F40TT	105	RECESSED CEILING	120	SAME AS 'F4' EXCEPT WITH EMERGENCY BATTERY PACK.
F5	COLUMBIA #CS4-232-EB8120 EQUALS BY: LITHONIA WILLIAMS	2-F032/ 835	70	SURFACE CEILING	120	4' LONG FLUORESCENT STRIP
X	DUAL-LITE #LXUGWE EQUALS BY: LITHONIA, PATHWAY	FURN'D W/FIXT.	20	SURFACE CEILING	120	THERMOPLASTIC EXIT SIGN, WHITE FINISH, GREEN, EMERGENCY.

## PANELBOARD SCHEDULE

PANEL	TYPE	CABINET	MAINS			BRANCH CIRCUITS							REMARKS
			TYPE	SIZE	Ø FEED	# REQ'D	SPARE	TOTAL	POLE	FRAME	TRIP		
TC U.L.S.E. LABEL 50K A.I.C.	NF	SURFACE (TWO EQUAL SECTIONS)	MCB 'LH' FRAME	600	3#4W 120/208V	31 2 2 1 1 1 31	5 0 0 0 0 0 0	36 2 2 1 1 1 31	1 1 2 3 3 3 1	EDB EDB EDB EDB EDB KA EHB	20 30 20 40 60 80 225 ---	LIGHTS, RECEPTS & MIS GRINDER PUMPS HAND DRYERS WATER HEATER AC-1 OUTDOOR AC-1 INDOOR SPARE BUSSED SPACE	
MP U.L.S.E. LABEL 50K A.I.C.	I-LINE	SURFACE	MLO	600	3#4W 120/208V	1 2 1 2	0 0 0 0	1 2 1 2	3 3 1 3	PH KH KC KC	100 125  150 ---	WATER HEATER AC-2 OUTDOOR & AC-2 INDOOR HEAT PANEL 'PH' BUSSED SPACE	
PH	NQOD	SURFACE	MLO	225	3#4W 120/208V	24 2 4 1 39	8 0 0 1 0	32 2 4 1 39	1 1 2 3 1	QOB QOB QOB QOB QOB	20 30 20 15 ---	LIGHTS, RECEPTS & MIS GRINDER PUMPS HAND DRYERS AC-2 INDOOR MOTOR BUSSED SPACE	

### PANELBOARD NOTES (TYP)

1. PANELBOARDS DESIGNATIONS INDICATED IN ABOVE SCHEDULE ARE THOSE OF SQUARE D CO. EQUAL EQUIPMENT BY OTHER MANUFACTURERS WILL BE CONSIDERED. IF OTHER MANUFACTURER'S PANELS ARE TO BE USED CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL SPACE REQUIREMENTS.
2. EACH PANELBOARD SHALL HAVE AN INTEGRATED EQUIPMENT RATING EQUAL TO THE LOWEST A.I.C. OF ANY CIRCUIT BREAKER IN PANEL.
3. WHERE CURRENT LIMITING CIRCUIT BREAKERS ARE USED, THEY SHALL BE SERIES RATED FOR DOWNSTREAM PROTECTION. SUBMITTAL DATA SHALL INCLUDE A CURRENT U.L. APPROVED TABLE OF SERIES CONNECTED RATINGS OF ALL CIRCUIT BREAKERS TO BE USED.
4. AT EACH FLUSH MOUNTED PANELBOARD PROVIDE 3 EACH 1/2" CONDUITS AND 3 EACH, 3/4" CONDUITS STUBBED UP TO ABOVE ACCESSIBLE CEILING AND TERMINATE FOR FUTURE USE.



## TYP. MECH. UNIT CONNECTION DETAIL

NO SCALE

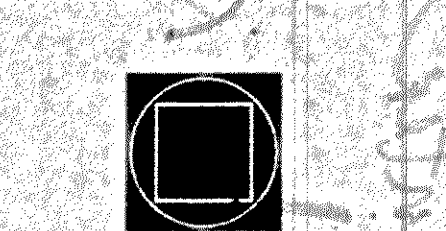
NOTE:

1. FOR DISTANCES GREATER THAN 48" CONDUIT TO BE ROUTED BELOW GRADE TO WITHIN 6" OF MECH. UNIT, STUB-UP W/ RIGID ELBOW THRU CONCRETE PAD. PROVIDE FLEXIBLE CONNECTION FROM ELBOW TO MECH. UNIT, W/ CONNECTION MADE AT UNIT AS SHOWN ABOVE.

## ELECTRICAL SYMBOL LEGEND

- (A) CEILING OUTLET, LETTER IN SYMBOL DENOTES TYPE OF FIXTURE.
- (B) LIGHTING FIXTURE, LETTER IN SYMBOL DENOTES TYPE OF FIXTURE.
- (C) FLUORESCENT LIGHTING FIXTURE, SURFACE MOUNTED OR RECESSED. REFER TO FIXTURE SCHEDULE.
- (D) FLUORESCENT STRIP OR INDUSTRIAL FIXTURE. SURFACE MOUNTED OR SUSPENDED.
- (E) WALL BRACKET, LETTER IN SYMBOL DENOTES TYPE OF FIXTURE.
- (F) EXIT LIGHT SURFACE MOUNTED ON CEILING.
- (G) EXIT LIGHT BRACKET MTD. OVER DOOR OR WALL MTD. AS INDICATED.
- (H) DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH MOUNTED 18" A.F.F.
- (I) DUPLEX RECEPTACLE, NEMA 5-20R, FLUSH MOUNTED AT 44" A.F.F. OR 4" ABOVE BACKPLASH TO CENTERLINE. REFER TO ARCHITECTURAL DETAILS.
- (J) DUPLEX RECEPTACLE FOR WATER COOLER. COORDINATE LOCATION AND HEIGHT WITH PLUMBING TRADE. RECEPTACLE WILL BE CONCEALED BEHIND WATER COOLER.
- (K) DUPLEX RECEPTACLE, WEATHERPROOF W/GROUNDFAULT INTERRUPTING CAPABILITIES. NEMA 5-20R, FLUSH MOUNTED 18" A.F.F.
- (L) DUPLEX RECEPTACLE, SAFETY-TYPE DEVICE, WEATHERPROOF W/GROUNDFAULT INTERRUPTING CAPABILITIES. NEMA 5-20R, FLUSH MOUNTED 18" A.F.F.
- (M) DUPLEX RECEPTACLE, ANY OF ABOVE EXCEPT GROUND-FAULT TYPE.
- (N) SWITCH, SINGLE POLE, 20A, TOGGLE, FLUSH MOUNTED 44" A.F.F.
- (O) SWITCH, THREE-WAY, 20A, TOGGLE, FLUSH MOUNTED 44" A.F.F.
- (P) SWITCH, FOUR-WAY, 20A, TOGGLE, FLUSH MOUNTED 44" A.F.F.
- (Q) SWITCH, CONTROL OUTLET "a" (TYPICAL)
- (R) SWITCH, SINGLE POLE, 20A, TOGGLE, W/RED PILOT LIGHT, FLUSH MOUNTED 44" A.F.F.
- (S) MANUAL MOTOR STARTER, SINGLE POLE, 1 SPEED, WITH PILOT LIGHT MOUNTED 48" A.F.F.
- (T) JUNCTION BOX, MOUNTED ABOVE CEILING OR IN JOIST SPACE. SIZE AS NOTED OR REQUIRED.
- (U) JUNCTION BOX, WALL MOUNTED, MOUNTING HEIGHT AND SIZE AS NOTED OR REQUIRED.
- (V) JUNCTION BOX, WALL MOUNTED, FLEX CONN. TO EQUIPMENT. MOUNTING HEIGHT & SIZE AS NOTED OR REQUIRED.
- (W) TELEPHONE OUTLET FLUSH MOUNTED 60" A.F.F. FOR WALL PHONE W/3/4" C. STUBBED INTO CEILING SPACE. TERMINATE W/BUSHING.
- (X) TELEPHONE OUTLET FLUSH MOUNTED AT 18" A.F.F. WITH 3/4" STUBBED-UP INTO ACCESSIBLE CEILING SPACE TERMINATE WITH BUSHING PROVIDE ONE HOLE COVER.
- (Y) DATA OUTLET FLUSH MOUNTED AT 18" A.F.F. WITH 3/4" STUBBED-UP INTO ACCESSIBLE CEILING SPACE TERMINATE WITH BUSHING PROVIDE ONE HOLE COVER.
- (Z) MOTOR STARTER. FURNISHED BY MECHANICAL, INSTALLED BY ELECTRICAL. COORDINATE EXACT LOCATION W/MECHANICAL TRADE.
- (AA) DISCONNECT SWITCH, SIZE AS INDICATED.
- (AB) MOTOR, SIZE AND CHARACTERISTICS AS NOTED.
- (AC) SERVICE ENTRANCE PANELBOARD
- (AD) LIGHTING OR POWER BRANCH CIRCUIT PANELBOARD
- (AE) UTILITY COMPANY METER.
- (AF) BRANCH CIRCUIT, CONCEALED ABOVE CEILING OR IN WALL, 1/2" C. UNLESS NOTED.
- (AG) BRANCH CIRCUIT, EXPOSED IN BAR JOIST SPACE, BELOW CEILING OR ON WALLS. 1/2" C. UNLESS NOTED. ROUTE PERPENDICULAR AND PARALLEL WITH STRUCTURAL MEMBERS.
- (AH) BRANCH CIRCUIT, CONCEALED IN SLAB BELOW SLAB, OR BELOW GRADE.
- (AI) BRANCH CIRCUIT, ANY OF ABOVE, W/ GREEN GROUNDING CONDUCTORS IN ADDITION TO CIRCUIT CONDUCTORS SHOWN, MINIMUM #12 AWG COPPER.
- (AJ) BRANCH CIRCUIT, HOMERUN TO PANEL, CIRCUIT SHOWN INDICATES 2#12 & #12 (G)-1/2" C. TO ONE 20/1P CIRCUIT BREAKER. INDICATES 3#12 & #12 (G)-1/2" C. TO TWO 20/1P BREAKERS. INDICATES 4#12 & #12 (G)-1/2" C. TO THREE 20/1P BREAKERS.
- (AK) BRANCH CIRCUIT W/ #8 AWG WIRING IN CONDUIT SIZED AS PER N.E.C. FOR NUMBER OF CONDUCTORS SHOWN.
- (AL) BRANCH CIRCUIT W/ #10 AWG WIRING IN CONDUIT SIZED AS PER N.E.C. FOR NUMBER OF CONDUCTORS SHOWN.
- (AM) WALL OUTLET FOR CONNECTION TO ELECTRIC HAND DRYER FLUSH MOUNTED REFER TO ARCHITECTURAL ELEVATIONS & DETAILS FOR HEIGHT. MAKE CONNECTION AS PER MANUF. REQ'TS.
- (AN) ELECTRICAL CONNECTION TO MOTORIZED DAMPER 120VOLT. VERIFY LOCATION W/MECH CONTRACTOR.

## GOODWYN MILLS & CAWOOD, INC.



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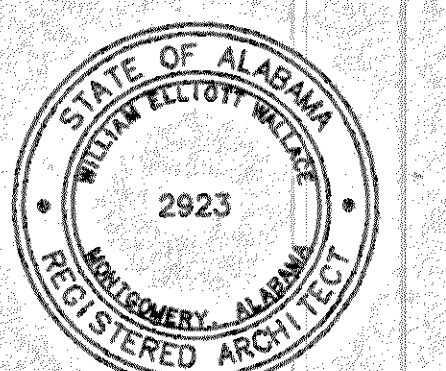
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## A NEW POOL & TENNIS CENTER

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6-1-030



Issue date

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ELECTRICAL LEGENDS, SCHEDULES & DETAILS

E3.01

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