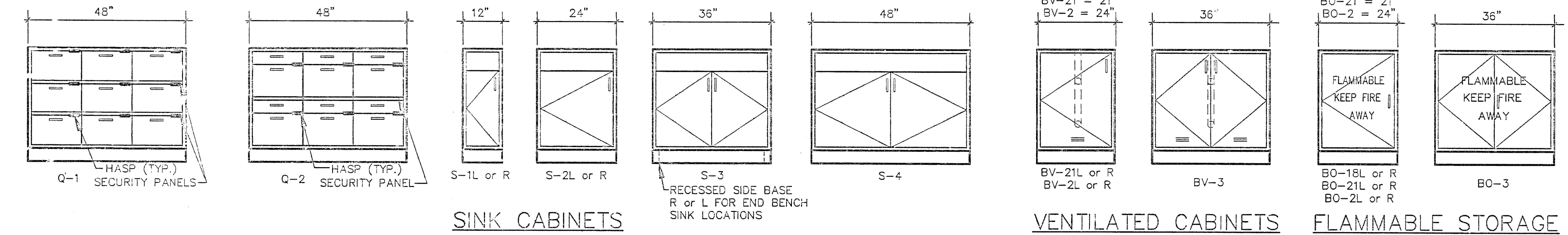
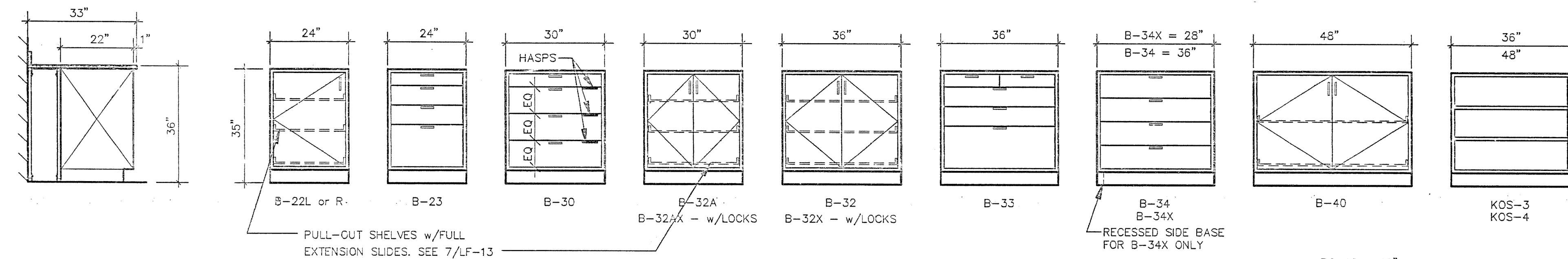
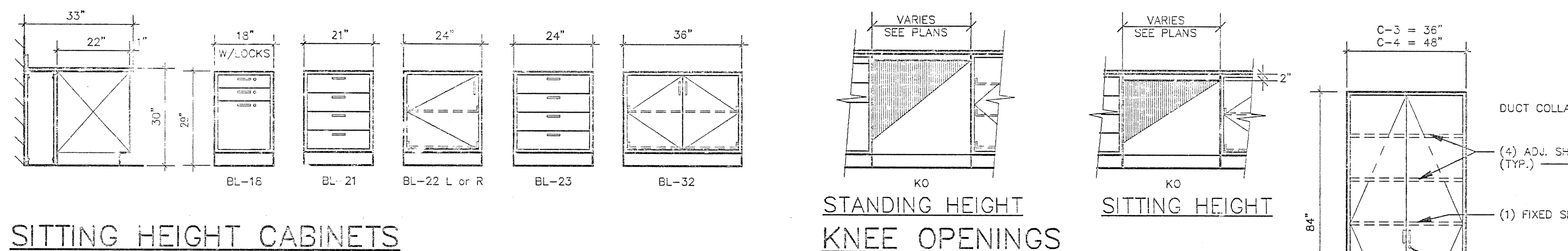


# CASEWORK

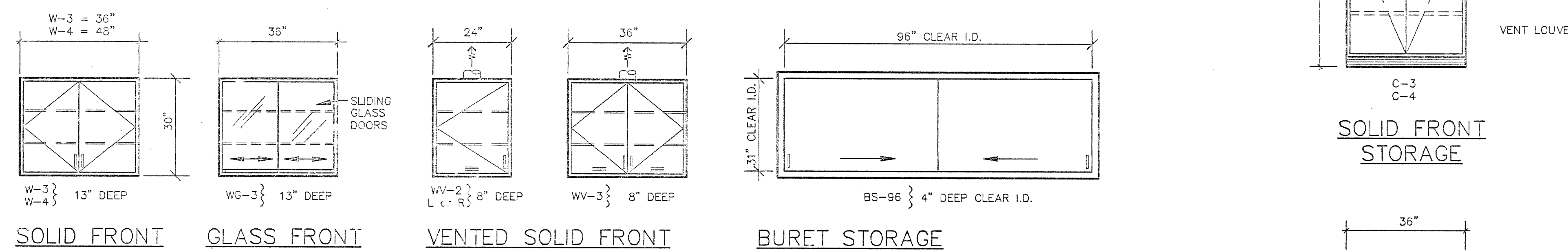
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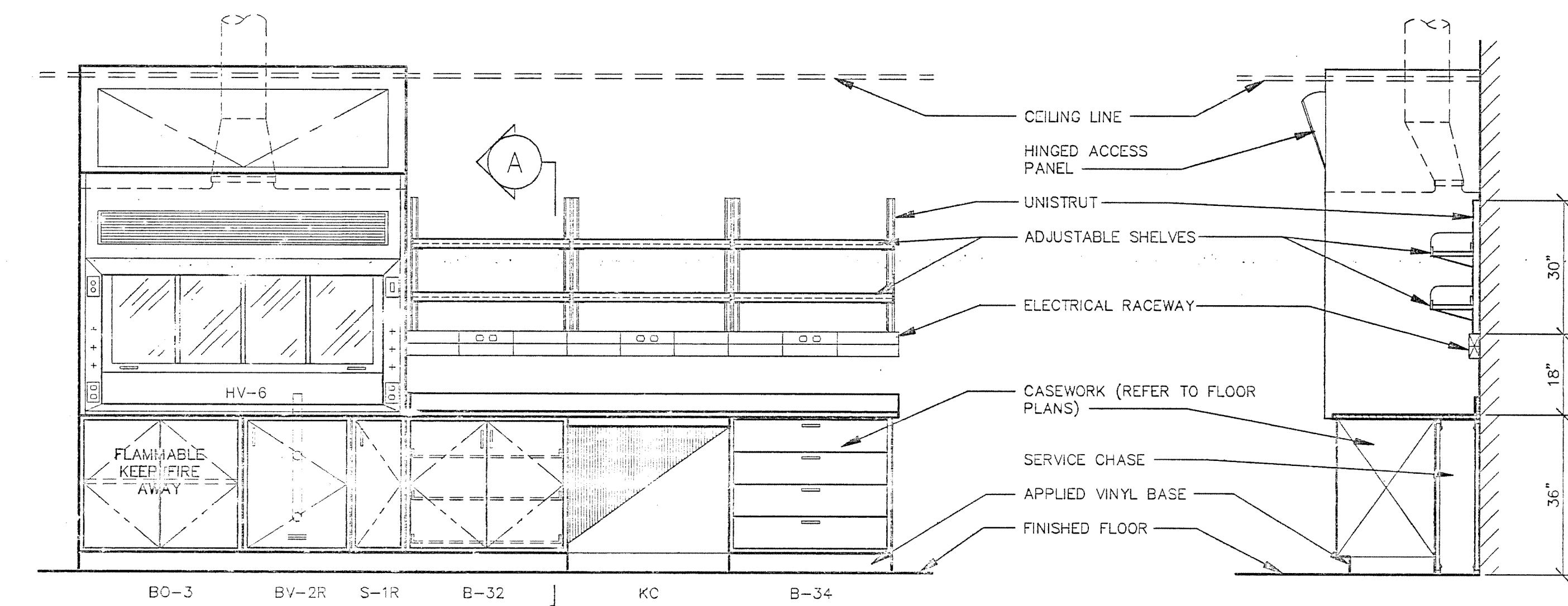
## STANDING HEIGHT CABINETS



## SITTING HEIGHT CABINETS

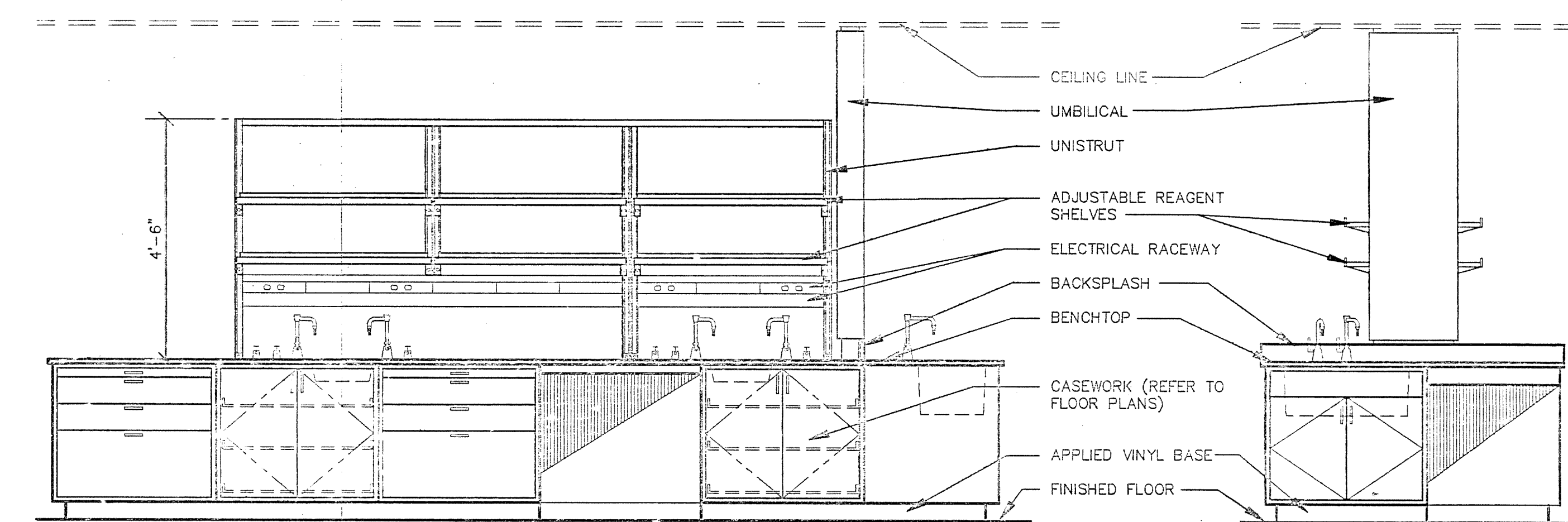


## SOLID FRONT WALL CABINETS



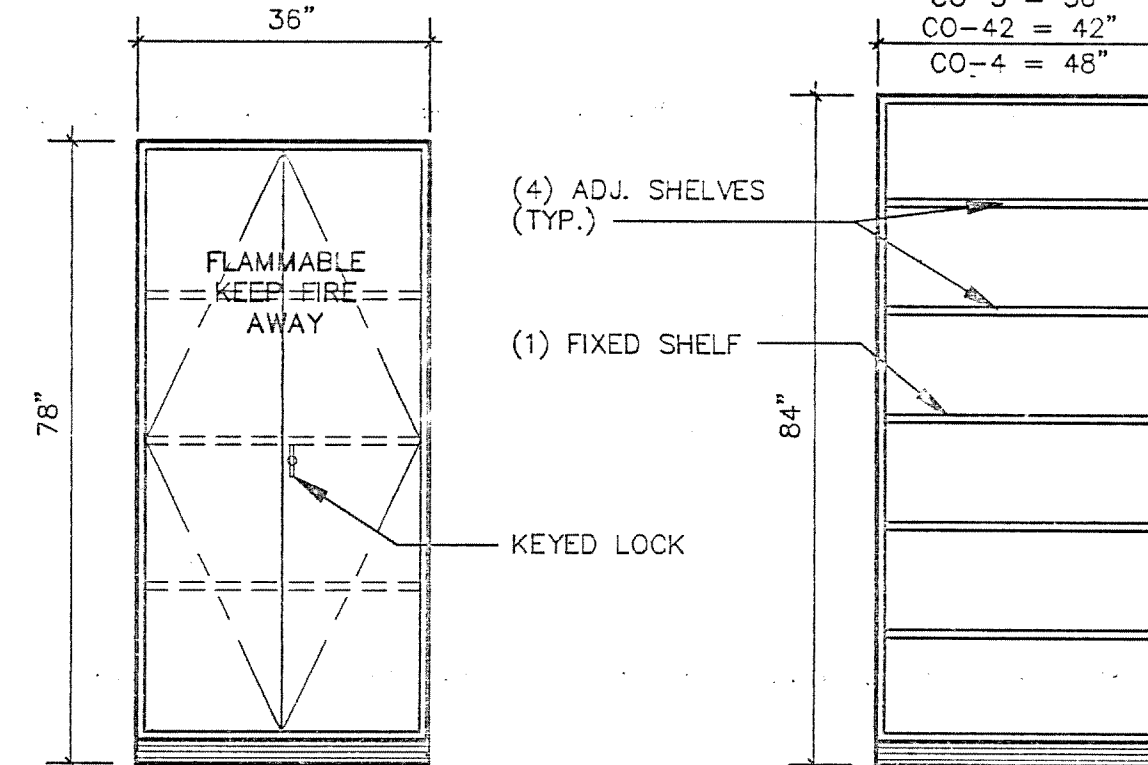
TYPICAL WALL BENCH ELEVATION (FOR REFERENCE ONLY)

## SECTION A

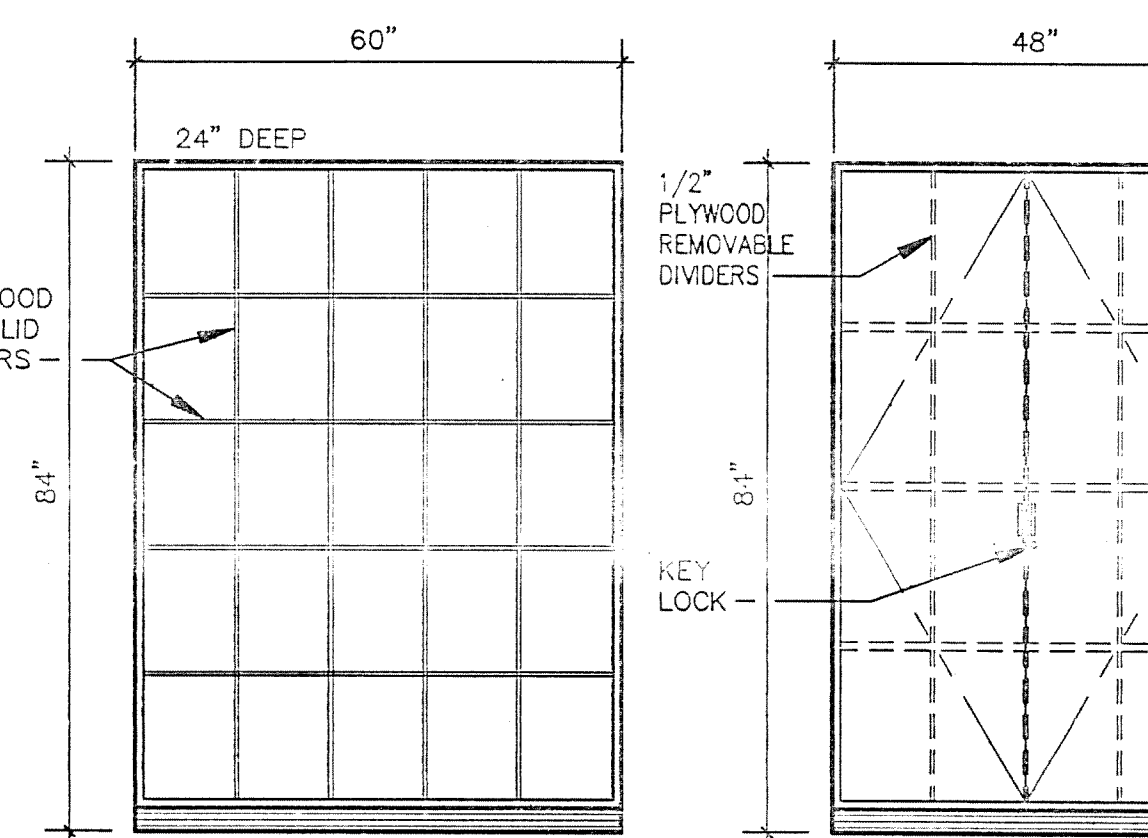


TYPICAL ISLAND BENCH ELEVATION (FOR REFERENCE ONLY)

## END ELEVATION



## FLAMMABLE STORAGE CABINET



## BACK PACK STORAGE CABINET

## TALL STORAGE CABINETS

- NOTES:  
1. 22" DEEP UNLESS OTHERWISE NOTED ON PLANS.  
2. FINISH BOTH SIDES AND BACK. BASE SHALL BE WOOD FINISH.  
3. ALL SHELVES TO BE 1" THICK

## LAB FURNISHINGS LEGEND

- 1 UMBILICAL (LF12)
- 2a ADJUSTABLE WALL SHELVING (LF12)
- 2b ADJUSTABLE REAGENT SHELVING (LF12)
- 3 DRYING RACK (3) (LF12)
- 4 CYLINDER STRAP (4) (LF12)
- 5 SNORKEL (5) (LF12)
- 6 OVERHEAD SERVICE CARRIER (6) (LF12)
- 7 BENCHTOP SLEEVE (7) (LF13)

## SYMBOLS

- 8 CUPSINK (8) (LF13)
- 9 EPOXY SINK (9) (LF13)
- 10 STAINLESS STEEL SINK (10) (LF13)
- 11 CHEMICAL FUME HOOD (HV-6)
- 12 BIOLOGICAL SAFETY CABINET
- 13 O.F.O.I. EQUIPMENT
- 14 UMBILICAL
- 15 SNORKEL
- 16 EQUIPMENT NUMBER (SEE SPECS.)

## TOP MATERIAL

- 17 EPOXY TOP
- 18 PLASTIC LAMINATE
- 19 STAINLESS STEEL

## SINK SCHEDULE

SK-1	21" x 17" x 10"D	EPOXY RESIN
SK-2	28" x 15" x 12"D	EPOXY RESIN
SK-3	16" x 22" x 10 1/2"D	STAINLESS STEEL
SK-4	12" x 16" x 8"D	EPOXY RESIN
SK-5	18" x 15" x 11"D	EPOXY RESIN
SK-6	36" x 16" x 1 1/2"D	ST. STL. w/SELF-RIM
SK-7	18" x 15" x 11"D	ST. STL. w/SELF-RIM

## LAB FURNISHINGS ABBREVIATIONS

- B BASE CABINET STANDING HEIGHT
- BL BASE CABINET SITTING HEIGHT
- BO FLAMMABLE STORAGE BASE CABINET
- BV VENTED BASE CABINET
- C TALL STORAGE SOLID FRONT
- CO TALL STORAGE OPEN FRONT
- CV TALL VENTED STORAGE SOLID FRONT
- KO KNEE OPENING
- OT TALL FLAMMABLE STORAGE
- OV TALL VENTED FLAMMABLE STORAGE
- L LEFT HAND HINGED
- R RIGHT HAND HINGED
- S SINK CABINET
- SK SINK
- W WALL CABINET SOLID FRONT
- WV WALL CABINET GLASS FRONT
- WV WALL CABINET VENTED SOLID FRONT
- ST STL STAINLESS STEEL
- C.F.O. CHINER FURNISHING CHINER INSTALLED
- CW COLD WATER
- HW HOT WATER
- DW DIONIZED WATER
- GAS GAS
- LA LAB AIR (15 #)
- LV LAB VACUUM
- A HIGH PRESSURE AIR (100 #)
- EW EYE WASH
- ES EMERGENCY SHOWER
- X w/ LOCK

## GENERAL NOTES

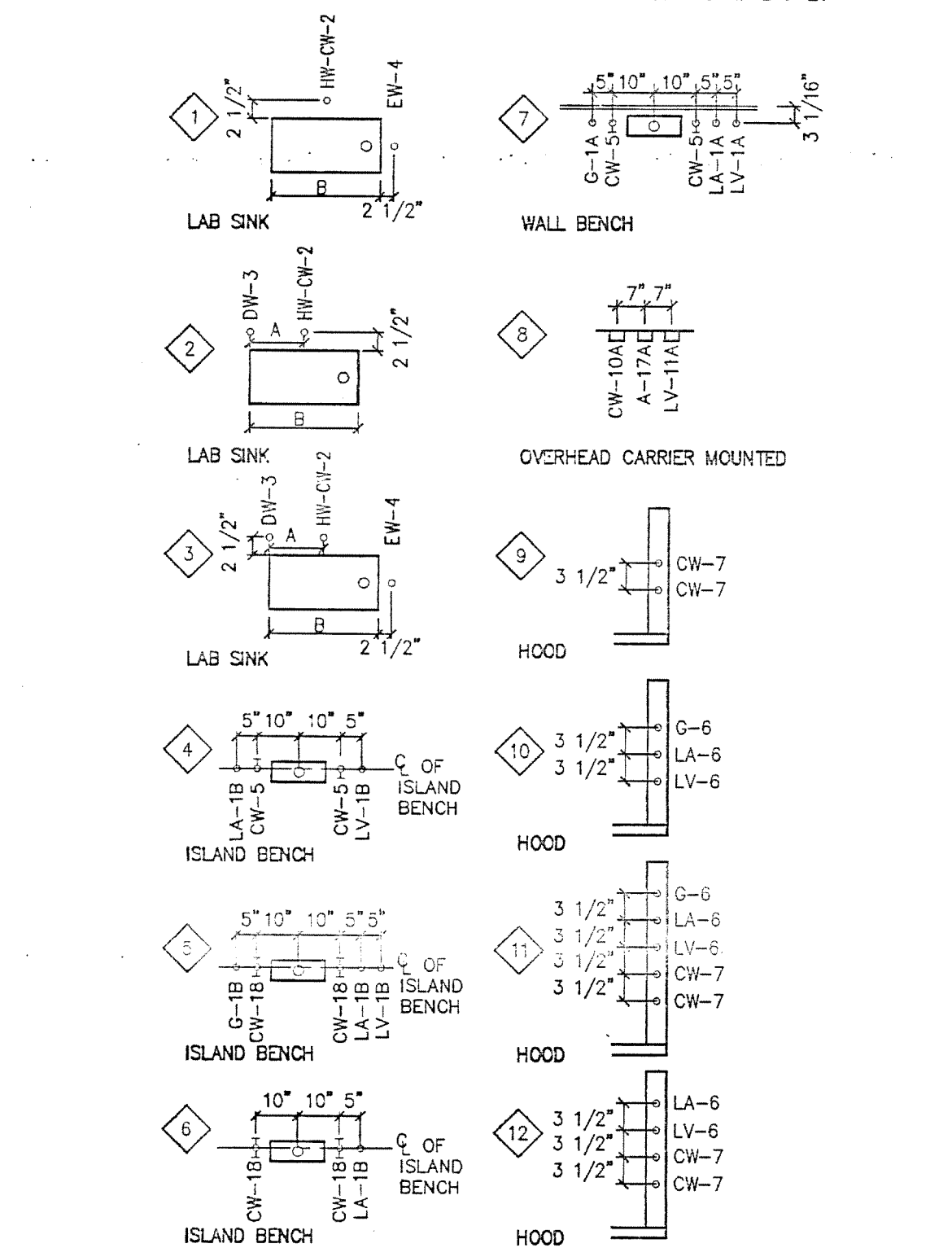
- LAB. FURNISHINGS DIVISION 11 CONTRACTOR SHALL CAREFULLY EXAMINE THE LABORATORY FURNISHINGS DRAWINGS AND SPECIFICATIONS AND ALL OTHER DRAWINGS AND SPECIFICATIONS TO PROPERLY DETERMINE CONTRACTUAL RESPONSIBILITIES.
- FOR ACTUAL ROOM DIMENSIONS REFER TO ARCHITECTURAL PLANS.
- LAB FURNISHINGS CONTRACTOR SHALL FIELD-CHECK ALL DIMENSIONS BEFORE FABRICATION.
- FOR LOCATION OF OVERHEAD SERVICE CARRIERS, SNORKELS, AND ANY OTHER FURNISHINGS THAT PENETRATE CEILING SEE ARCHITECTURAL REFLECTED CEILING PLANS. UMBILICAL CEILING PENETRATIONS ARE SHOWN APPROXIMATELY ON ARCHITECTURAL REFLECTED CEILING PLANS. EXACT LOCATIONS AS PER LAB FURNISHINGS PLANS.
- LOCATION OF EQUIPMENT, SUCH AS ISLAND BENCH SHELF SUPPORTS, OVERHEAD SERVICE CARRIERS, UMBILICAL ENCLOSURES, FUME HOODS, BRACES, OR ANY OTHER ITEMS THAT MAY INTERFERE WITH LIGHTING, STRUCTURAL, OR MECHANICAL SYSTEMS, SHALL BE CAREFULLY COORDINATED AND DISCREPANCIES BROUGHT TO ARCHITECTS ATTENTION IMMEDIATELY.
- ANY TYPE OF UNISTRUT, SLOTTED STANDARD FRAME, WALL SHELVING OR REAGENT SHELVING SUPPORTS USED (FOR RACKS, SHELVING, ETC.) SHALL BE SPACED AND POSITIONED TO CLEAR FITTINGS, ELECTRICAL PEDESTALS, SINKS AND CUPSINKS.
- OVERALL LENGTH OF TOPS SHALL BE DETERMINED BY CASEWORK AND DIMENSIONS AS INDICATED ON PLANS. SUCH LENGTHS SHALL REMAIN CONSTANT REGARDLESS OF SUCCESSFUL BIDDER'S STANDARDS. TOPS SHALL OVERHANG 1/2" AT EACH END AND 1" FROM FRONT OF BASE CABINET OR HORIZONTAL RAIL WHEN OVERALL DIMENSIONS ARE GIVEN, 1/2" OVERHANG IS NOT INCLUDED.
- OVERALL HEIGHT OF BASE CABINET TOPS MUST BE MAINTAINED AS SHOWN ON DRAWINGS (NOMINAL HEIGHT).
- INSTALLATION OF CASEWORK SHALL BEGIN AT THE HIGH POINT OF THE ROOM WITH THE LEVELERS SCREWED IN AS FAR AS POSSIBLE.
- COUNTERTOPS AND SPLASHES SHALL BE SCRIBED TO MATCH IRREGULARITIES AND CONTOURS OF WALLS.
- ALL EXPOSED-TO-VIEW COUNTERTOP EDGES, BACKS OF SPLASHES, ALL EDGES OF TABLES, BACKS, OF COUNTERTOPS AND SPLASHES HELD AWAY FROM WALL SHALL BE FILLED, SEALED, AND FINISHED.
- FILLER PANELS SHALL BE USED BETWEEN BACK OF CABINETS OR HOODS AND WALLS AT EXPOSED ENDS AND WHEN BASE CABINETS AND/OR HOODS ARE SET BACK-TO-BACK, FILLER SHALL OCCUR EVEN WHERE NO BASE CABINET OCCURS BUT BENCH IS PRESENT.
- ALL CASEWORK, FUME HOODS AND ANY OTHER FURNISHINGS WITH EXPOSED-TO-VIEW BACKS AND SIDES SHALL BE FINISHED.
- ALL WALL BENCH TOPS SHALL BE 2'-0" DEEP INCLUDING BACKSPLASH, U.O.N. & ISLAND OR PENINSULA BENCHES 5'-6" WIDE UNLESS OTHERWISE NOTED ON DRAWINGS.
- UNLESS OTHERWISE NOTED, ALL UNISTRUT BRACKETS AND FITTINGS INDICATED ON LABORATORY FURNISHINGS DRAWINGS SHALL BE SUPPLIED, INSTALLED, AND PAINTED BY LAB FURNISHINGS DIVISION 11 CONTRACTOR.
- FOR PLUMBING SERVICE FITTING TYPES, LOCATION AND ORDER, SEE LABORATORY FURNISHINGS FLOOR PLANS & DETAILS, THESE FITTINGS SHALL BE SUPPLIED AND INSTALLED BY LAB FURNISHINGS CONTRACTOR FOR FINAL CONNECTION BY PLUMBING CONTRACTOR.
- ALL PLUMBING SYSTEM HANGERS AND FASTENERS SHALL BE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR.
- ALL LABORATORY SINKS AND CUPSINKS SHALL BE FURNISHED AND INSTALLED BY LAB FURNISHINGS CONTRACTOR. DIVISION 15 CONTRACTOR TO CONNECT SINKS TO LAB WASTE SYSTEM.
- FOR FUME HOOD PRE-PLUMBING AND PRE-WIRING, SEE LAB FURNISHINGS PLANS AND DETAILS.
- ALL EXPOSED PIPING & CONDUIT SHALL BE PAINTED. COLOR SELECTION BY ARCHITECT.
- ALL PENETRATIONS THROUGH COUNTERTOP SHALL BE CAULKED BY LAB FURNISHINGS CONTRACTOR WITH AOD-RESISTANT SEALANT.
- "E" ITEMS NOTED ON PLANS REFER TO EQUIPMENT ITEMS SPECIFIED UNDER SPECIFICATION SECTION 11600.
- ARCHITECT SHALL SELECT COLORS FOR ALL COMPONENTS OF PROJECT INDICATED ON THESE DRAWINGS. COLOR SELECTION COULD BE FROM NON STANDARD COLORS.
- TOP MATERIAL SHALL BE 1" THICK U.O.N..
- TALL STORAGE CABINETS SHALL BE SECURED TO WALL TO PREVENT TIPPING.

## ADD ALTERNATE NOTES:

- IN ROOMS DESIGNATED AS ADD ALTERNATE, THE BASE BID SHALL INCLUDE: ALL DUCTWORK ABOVE THE CEILING CAPPED AT THE POINT OF CONNECTION FOR FUME HOODS, SNORKELS, VENTILATED CABINETS ETC.
- ADD ALTERNATE BID SHALL INCLUDE ALL FURNITURE AND FURNISHINGS, FUME HOODS, SINKS AND SERVICE FITTINGS, SNORKELS, UMBILICALS, BENCH TOPS ETC. TO COMPLETE A WORKING LABORATORY IN ALL ASPECTS AS SHOWN ON THESE DRAWINGS.

## SERVICE FITTING SCHEDULE

EXAMPLE:  
LA-1C INDICATES TYPE OF FITTING ABBREVIATED INDIVIDUALLY ON FLOOR PLANS.  
LA-1C NUMERICAL REFERENCE OF FITTING ELEV. A = 7' IF B = 21' OR LESS  
A = 9' IF B > 21'



## KEY SHEET SCALE: 1/2" = 1'-0" LAB FURNISHINGS AS BUILT

DRAWING REVISIONS:		DATE:	REMARKS:
NO.	DATE:		
1	5/15/04		DESIGNED BY: FJK
2	5/15/04		DRAWN BY: MDM/DCK
3	5/15/04		CHECKED BY: FJK
4	5/15/04		CHECKED BY:

JEFFERIES AND FARIS ASSOCIATES ARCHITECTS • PLANNERS  
SEA TOWERS SUITE 201 2002 EASTWOOD ROAD WILMINGTON, N.C. 28403  
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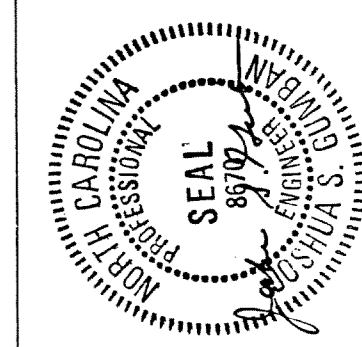
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON  
CODE 41330 ITEM 301 ID#6084280801A

SCIENCE BUILDING

KEY SHEET LAB FURNISHINGS

SHEET NO. 1

LFO



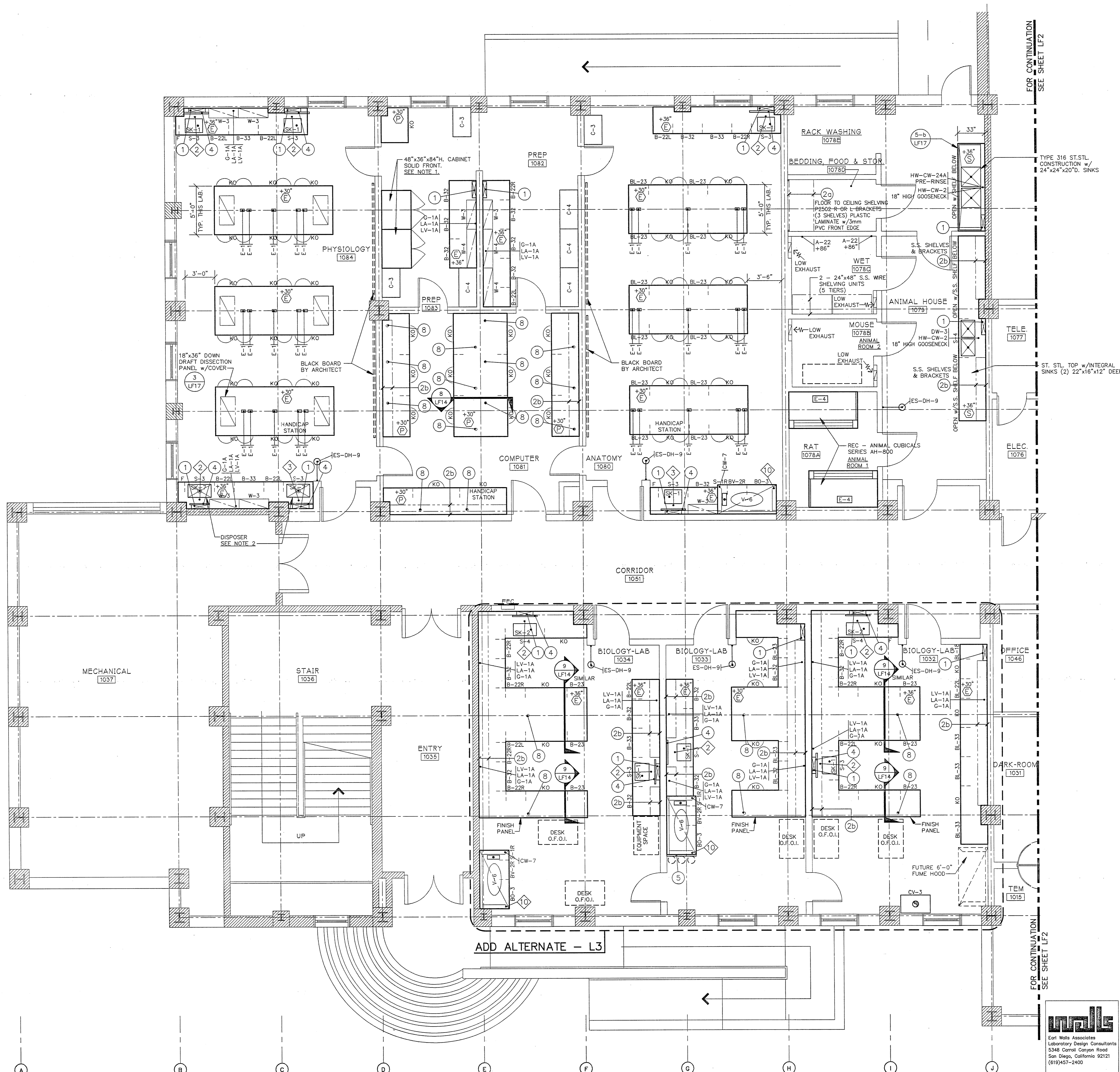
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SHEET TITLE:

FIRST FLOOR PLAN - AREA ONE  
WEST

SHEET NO.:

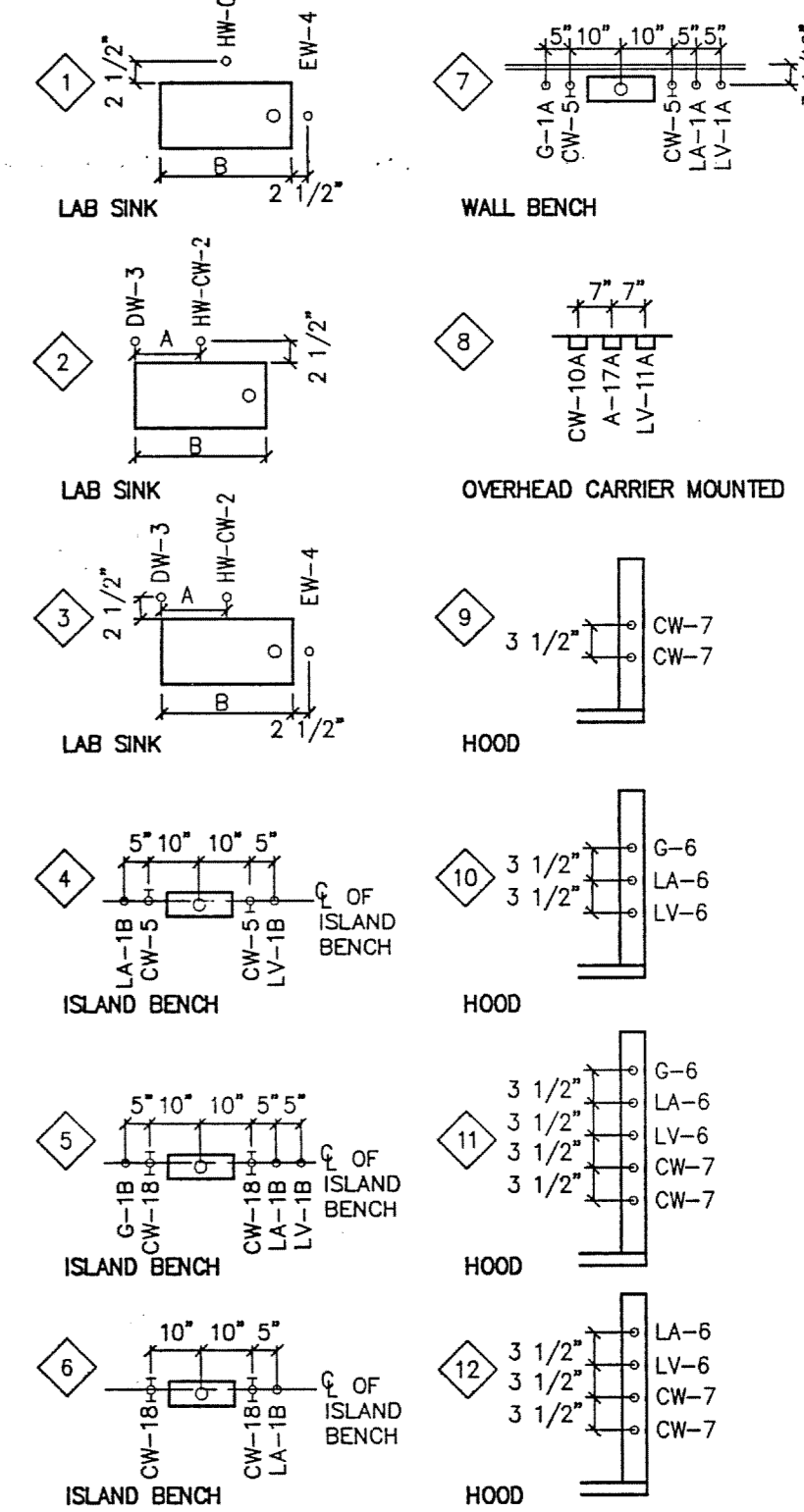
LF1



- NOTE:
- CABINETS FOR ROLL-IN CARTS WITH LOCK. PROVIDE 3-ADJUSTABLE SHELVES STARTING AT +48" NO BOTTOM. SECURE SIDES TO FLOOR ALL TO BE 1" PLYWOOD WITH 1/4" SOLID OAK EDGES 1/2" PLYWOOD BACK. 48"x84"x36"D.
  - DISPOSER SHALL BE IN-SINK-ERATOR COMMERCIAL MODEL NO. SS-50-5 w/COMPLETE ACCESSORY PACKAGE #5.

SERVICE FITTING SCHEDULE

EXAMPLE:  
G-1A INDICATES TYPE OF FITTING ABBREVIATED INDIVIDUALLY ON FLOOR PLANS.  
LA-1C NUMERICAL REFERENCE OF FITTING ELEV. A = 7" IF B = 21" OR LESS  
SEE DRAWING LF-16. A = 9" IF B > 21"



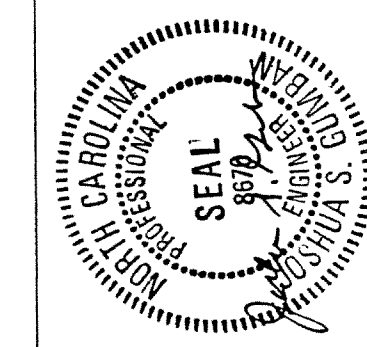
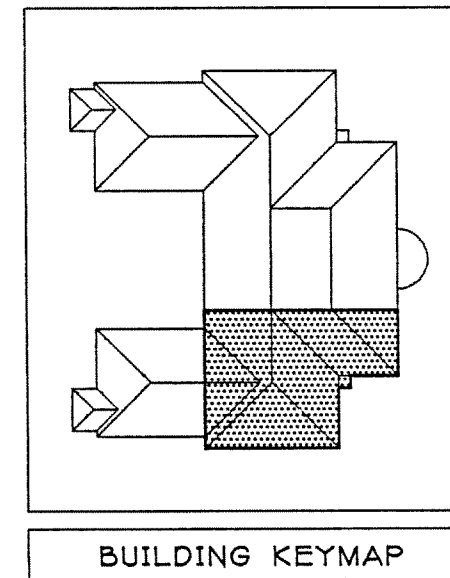
FIRST FLOOR  
SCALE: 1/4" = 1'-0"

AREA ONE  
AS BUILT

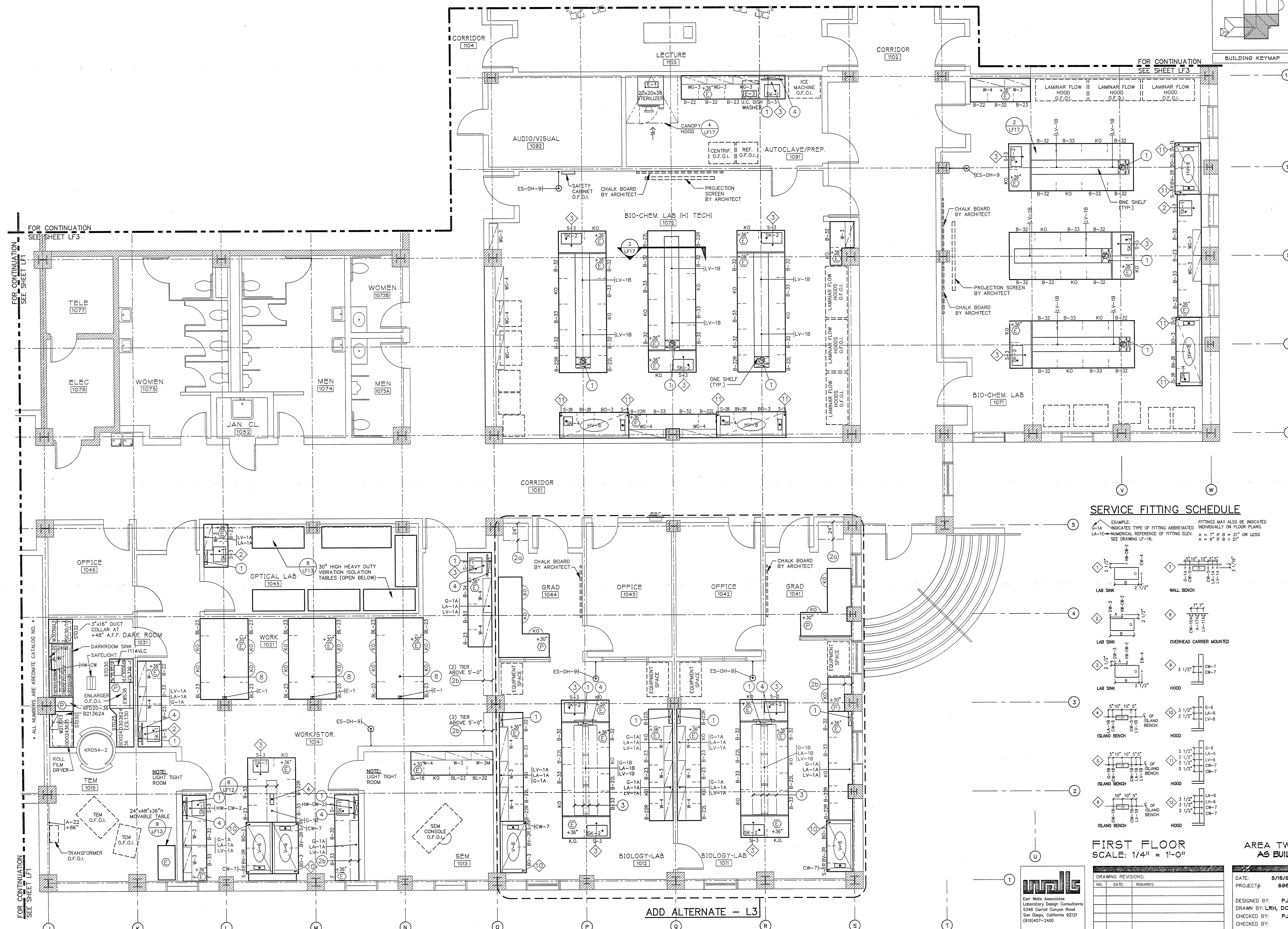
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NO.	DATE	REMARKS

DATE: 5/16/94  
PROJECT#: 8962  
DESIGNED BY: PJK  
DRAWN BY: LRH, DCK  
CHECKED BY: PJK  
CHECKED BY:

Earl Wells Associates  
Laboratory Design Consultants  
5348 Carroll Canyon Road  
San Diego, California 92121  
(619)457-2400

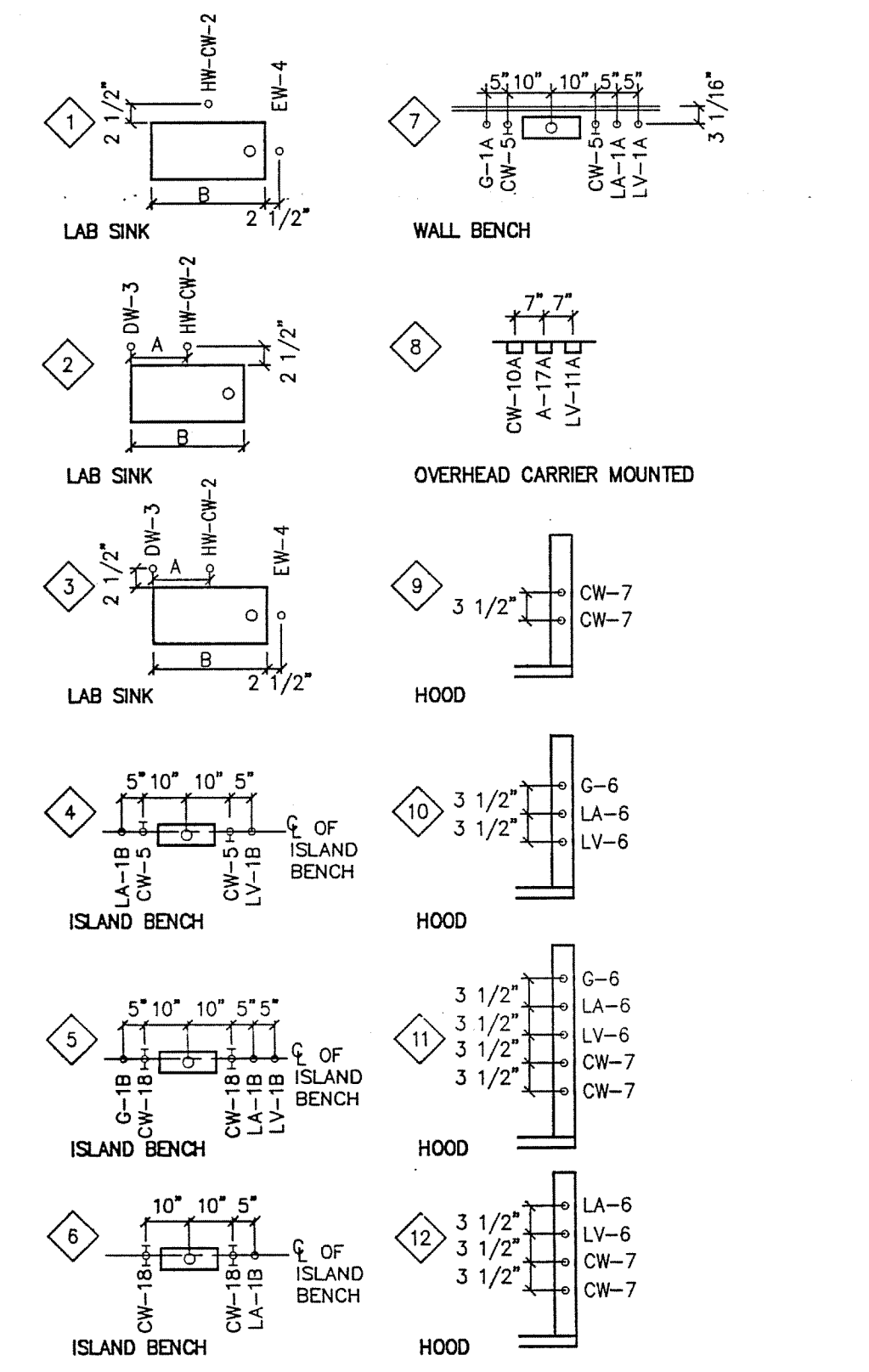


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CODE 44300 ITEM 301 ID#6089280301A



### SERVICE FITTING SCHEDULE

EXAMPLE:  
LA-10 INDICATES TYPE OF FITTING ABBREVIATED INDIVIDUALLY ON FLOOR PLANS.  
LA-10 NUMERICAL REFERENCE OF FITTING ELEV. A = 7" IF B = 21" OR LESS  
SEE DRAWING LF-1B. A = 9" IF B > 21"



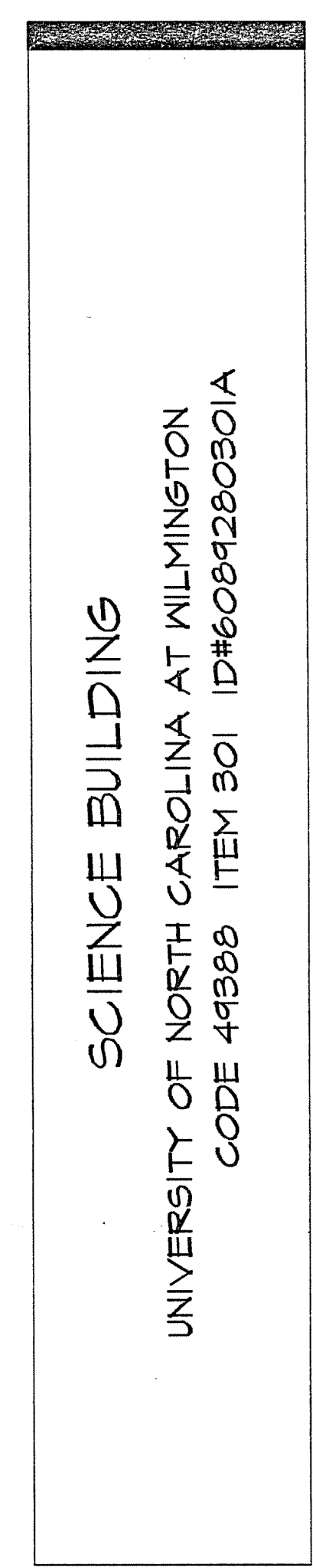
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SCALE: 1/4" = 1'-0"

AREA TWO  
AS BUILT

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NO.	DATE	REMARKS

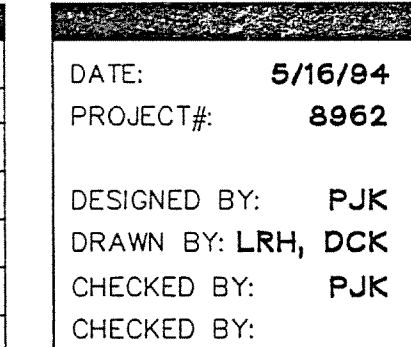
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PROJECT#: 8962  
DESIGNED BY: PJK  
DRAWN BY: LRH, DCK  
CHECKED BY: PJK

SHEET NO.:  
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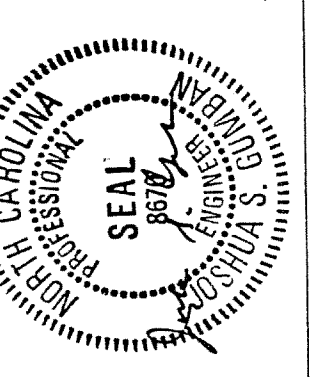


FIRST FLOOR PLAN - AREA THREE  
WEST

SHEET NO.:  
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CODE 44300 ITEM 301 ID#608420001A

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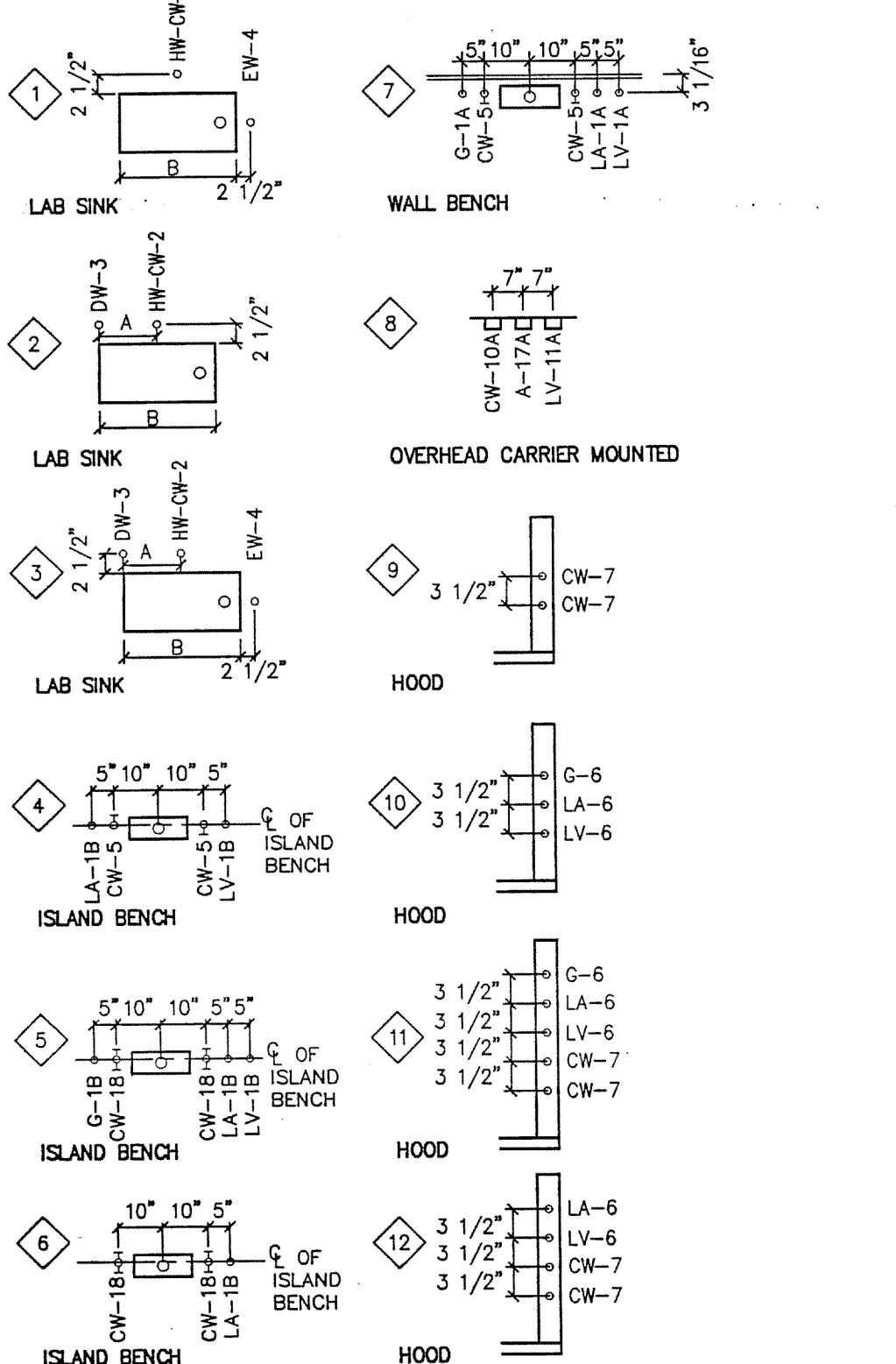
FIRST FLOOR PLAN - AREA FIVE  
EAST

AREA FIVE  
AS BUILT

SHEET NO.:  
**LF5**

**SERVICE FITTING SCHEDULE**

EXAMPLE:  
G-1A INDICATES TYPE OF FITTING ABBREVIATED INDIVIDUALLY ON FLOOR PLANS.  
LA-10 NUMERICAL REFERENCE OF FITTING ELEV. A = 7" IF B = 21" OR LESS  
SEE DRAWING LF-16. A = 9" IF B > 21"

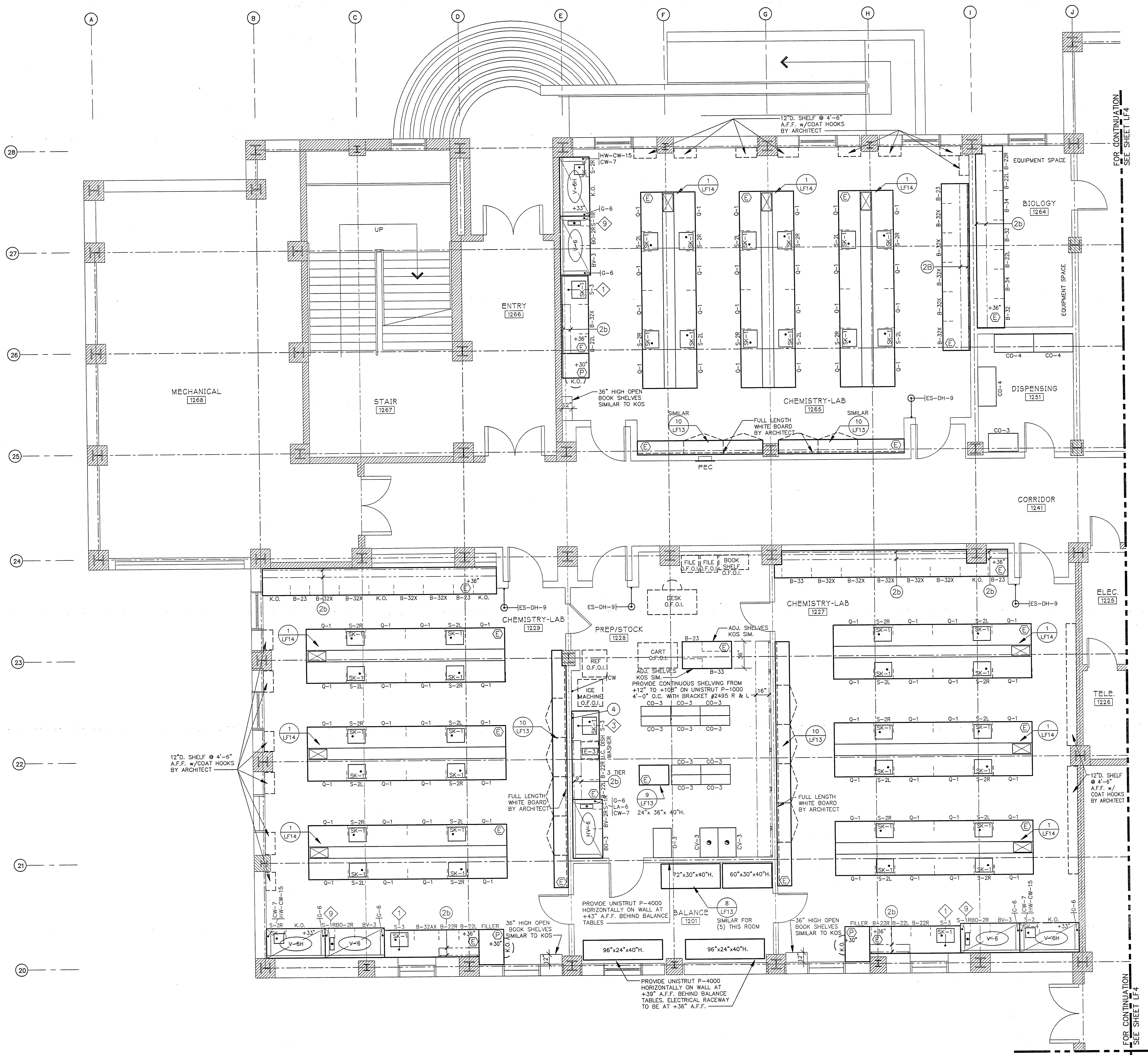


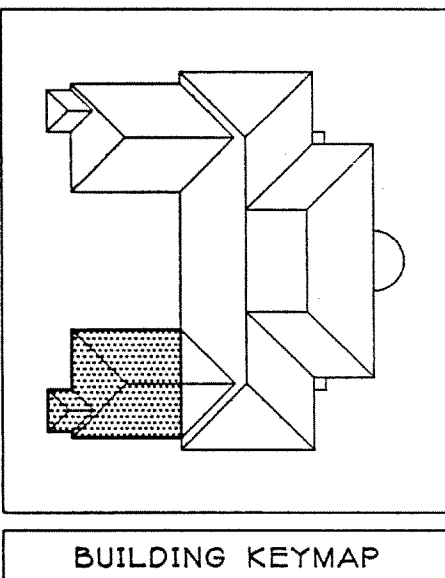
FIRST FLOOR  
SCALE: 1/4" = 1'-0"

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NO.	DATE	REMARKS

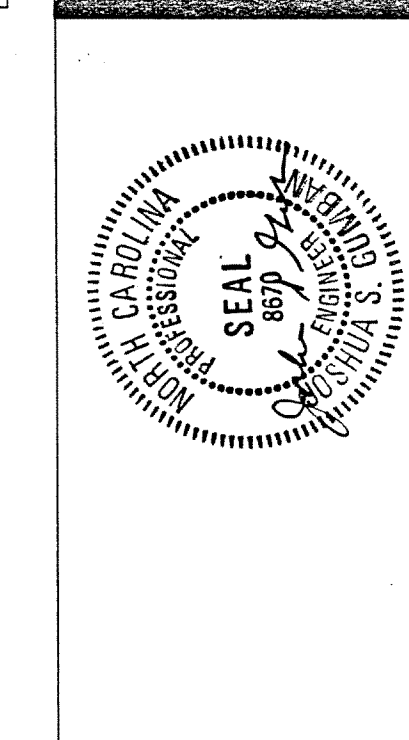
DATE: 5/16/94  
PROJECT#: 8962  
DESIGNED BY: PJK  
DRAWN BY: LRH, DCK  
CHECKED BY: PJK

**WALLS**  
Earl Walls Associates  
Laboratory Design Consultants  
5348 Corral Canyon Road  
San Diego, California 92121  
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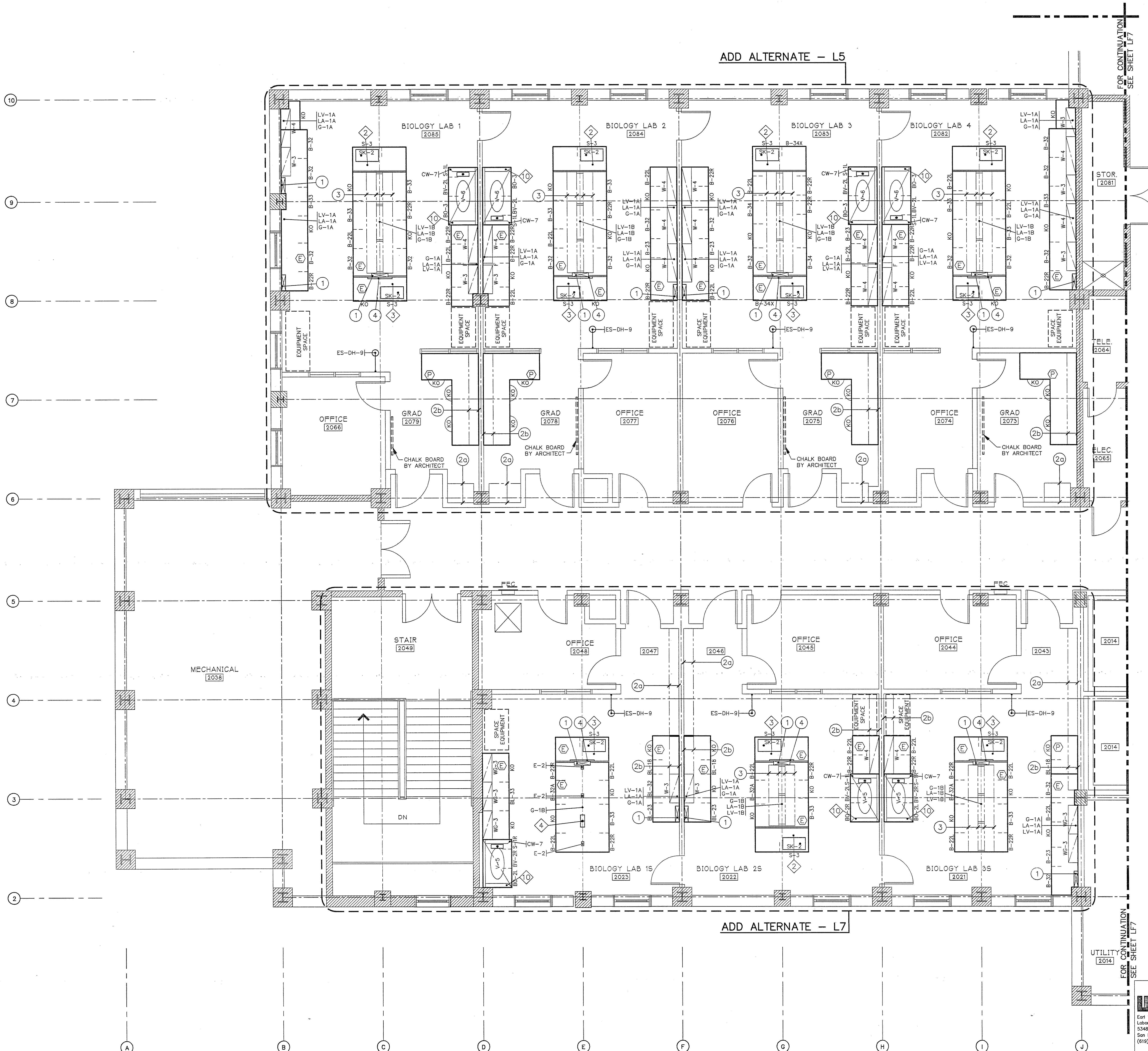


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FAX: 910.256.9088



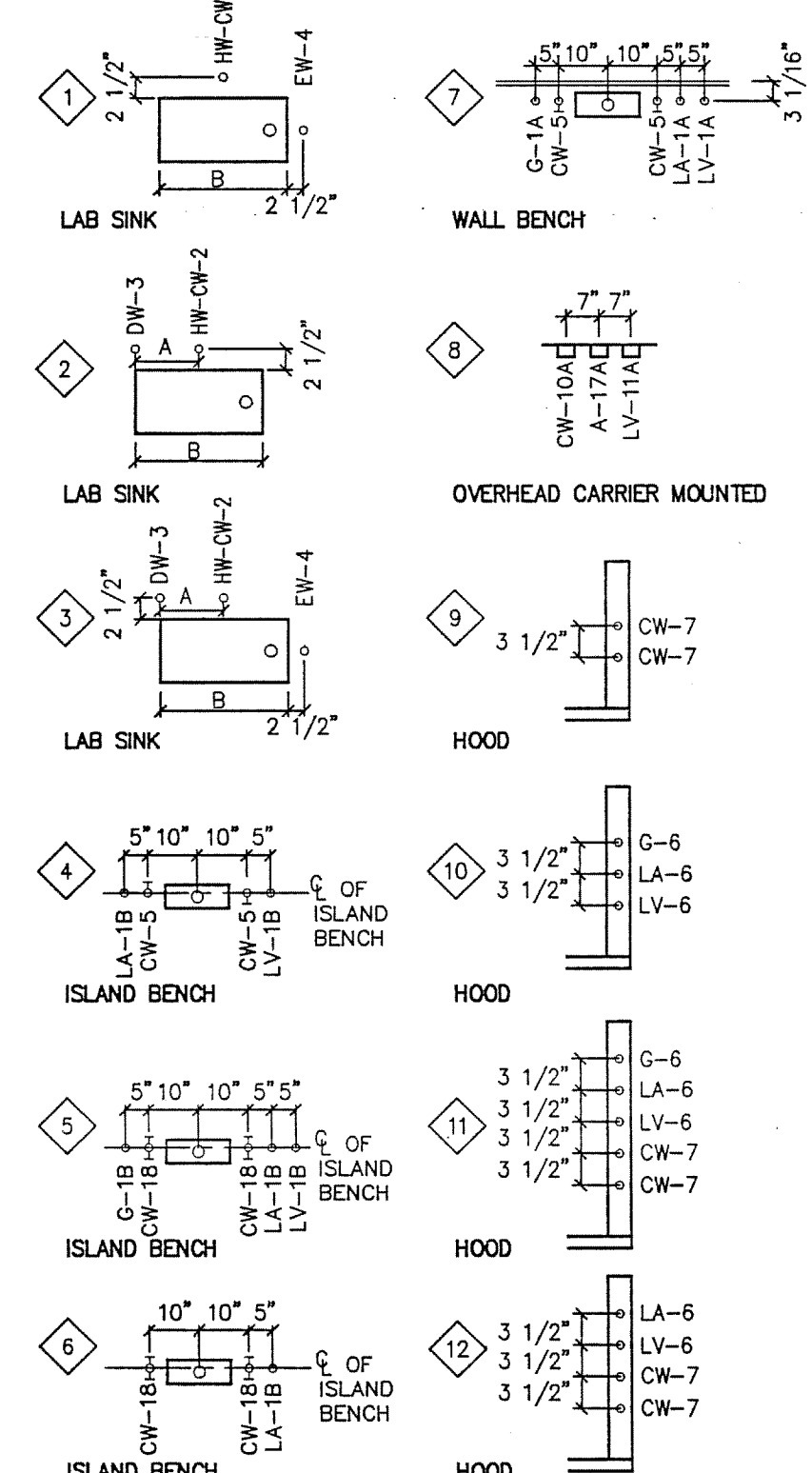
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UNIVERSITY OF NORTH CAROLINA AT WILMINGTON  
CODE 41888 ITEM 301 ID#6084280301A

SHEET TITLE:  
SECOND FLOOR PLAN - AREA ONE  
WEST  
SHEET NO.:  
LF6



### SERVICE FITTING SCHEDULE

EXAMPLE:  
G-1A INDICATES TYPE OF FITTING ABBREVIATED INDIVIDUALLY ON FLOOR PLANS.  
LA-10 NUMERICAL REFERENCE OF FITTING ELEV. SEE DRAWING LF-1B.  
FITTINGS MAY ALSO BE INDICATED INDIVIDUALLY ON FLOOR PLANS.  
A = 7" IF B = 21" OR LESS  
A = 9" IF B > 21"



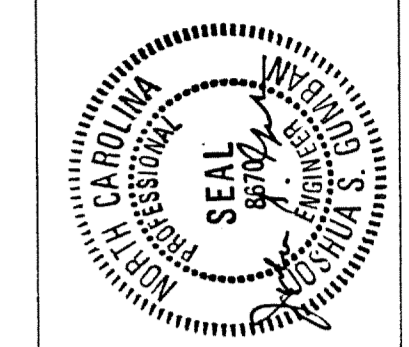
SECOND FLOOR  
SCALE: 1/4" = 1'-0"

AREA ONE  
AS BUILT

DRAWING REVISIONS:		
NO.	DATE	REMARKS

DATE: 6/16/84  
PROJECT#: 8862  
DESIGNED BY: PJK  
DRAWN BY: LRH, DCK  
CHECKED BY: PJK  
CHECKED BY:

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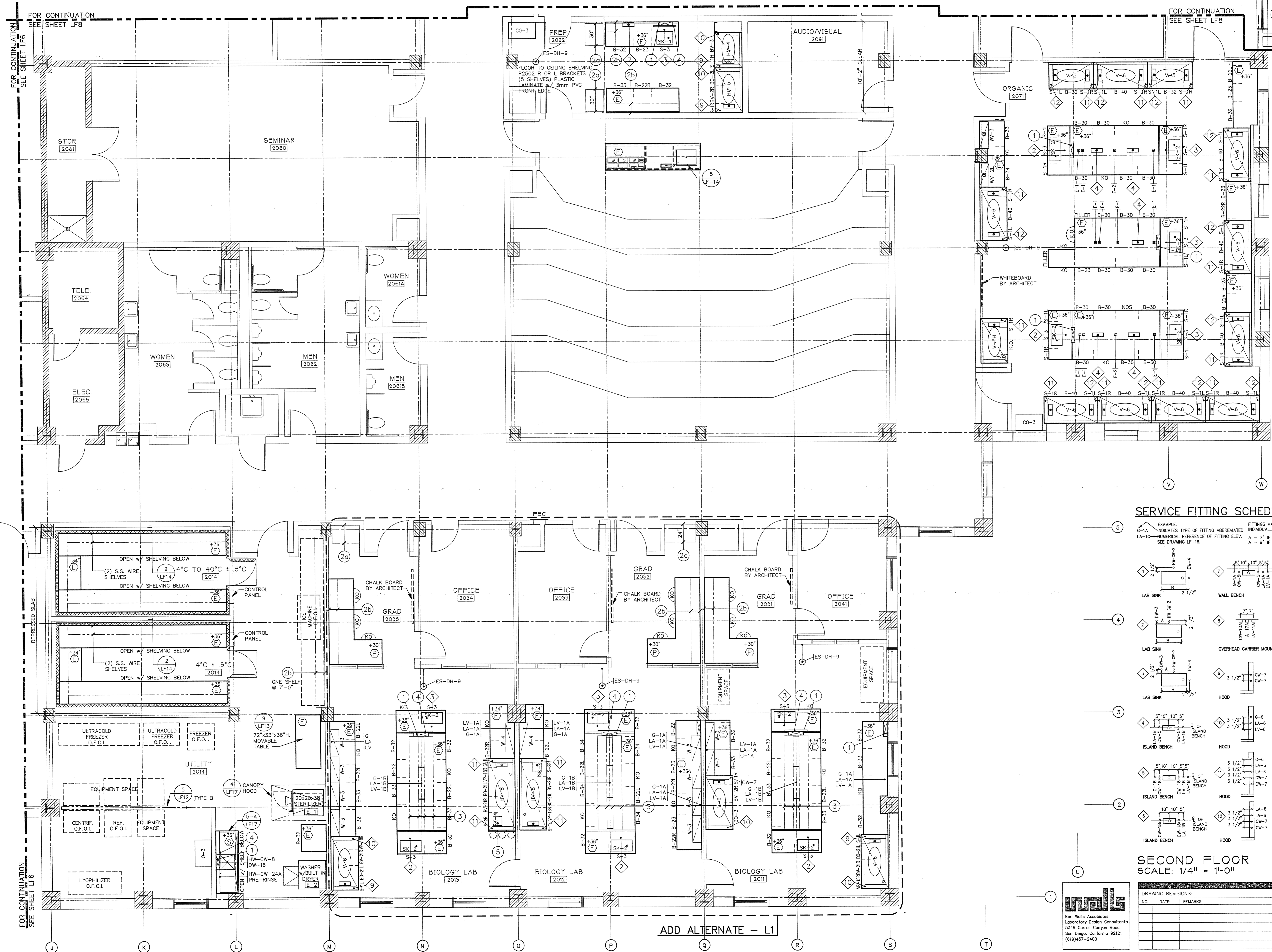
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UNIVERSITY OF NORTH CAROLINA AT WILMINGTON  
CODE 44888 ITEM 301 ID#6084280801A

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SECOND FLOOR PLAN - AREA TWO  
WEST

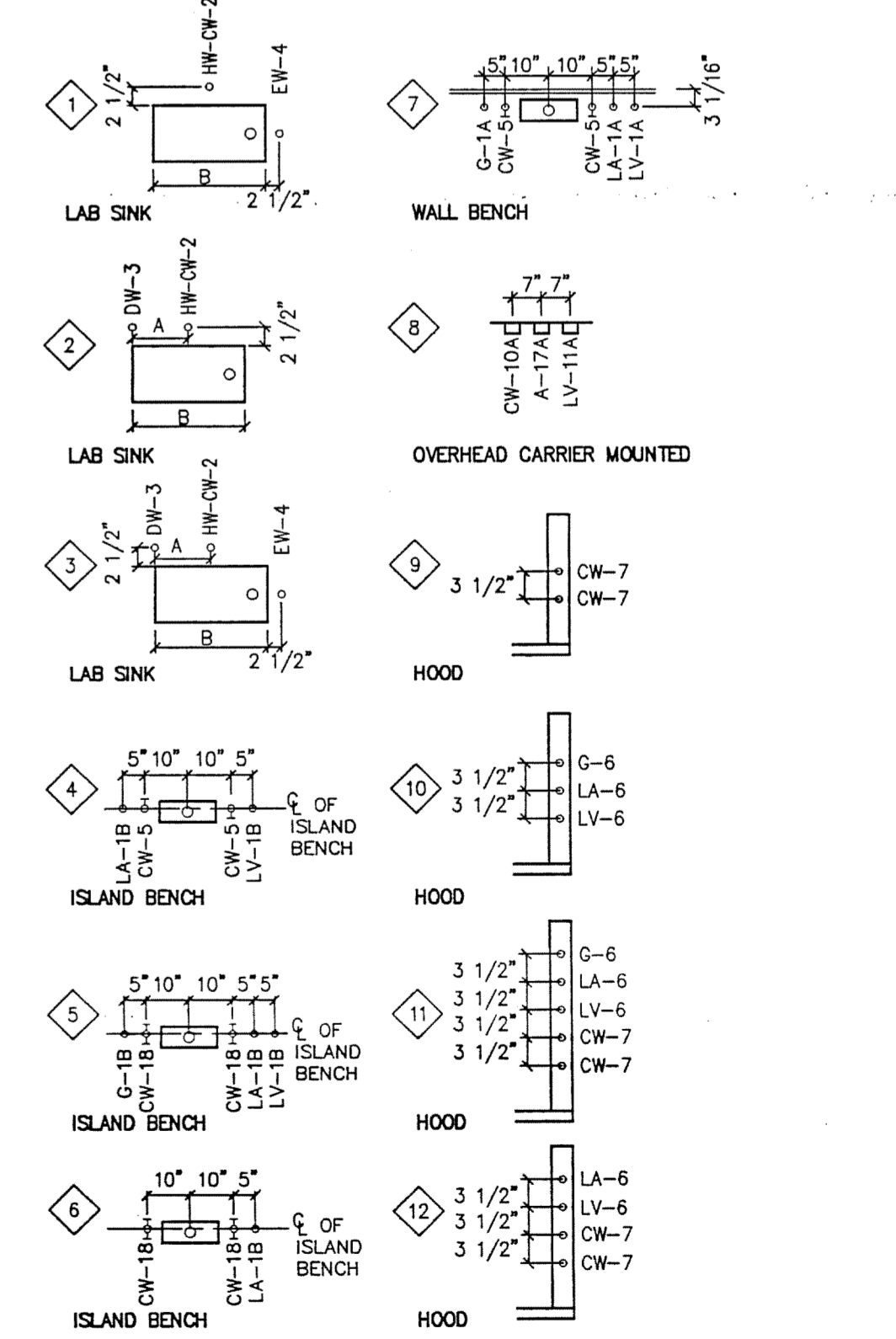
SHEET NO.:

LF7



SERVICE FITTING SCHEDULE

EXAMPLE:  
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LA-10C NUMERICAL REFERENCE OF FITTING ELEV. SEE DRAWING LF-16.  
FITTINGS MAY ALSO BE INDICATED INDIVIDUALLY ON FLOOR PLANS.  
A = 7" IF B = 21" OR LESS  
A = 9" IF B > 21"



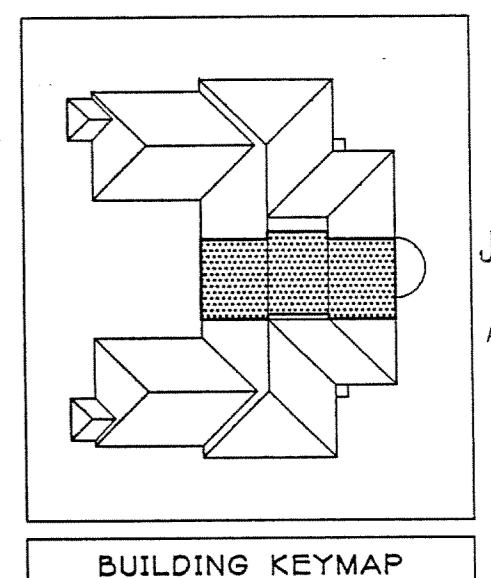
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AREA TWO  
AS BUILT

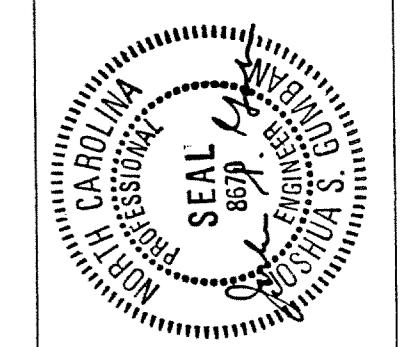
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NO.	DATE	REMARKS

DATE: 5/16/94  
PROJECT#: 8862  
DESIGNED BY:  
DRAWN BY: LRH, DCK  
CHECKED BY: PJK  
CHECKED BY:

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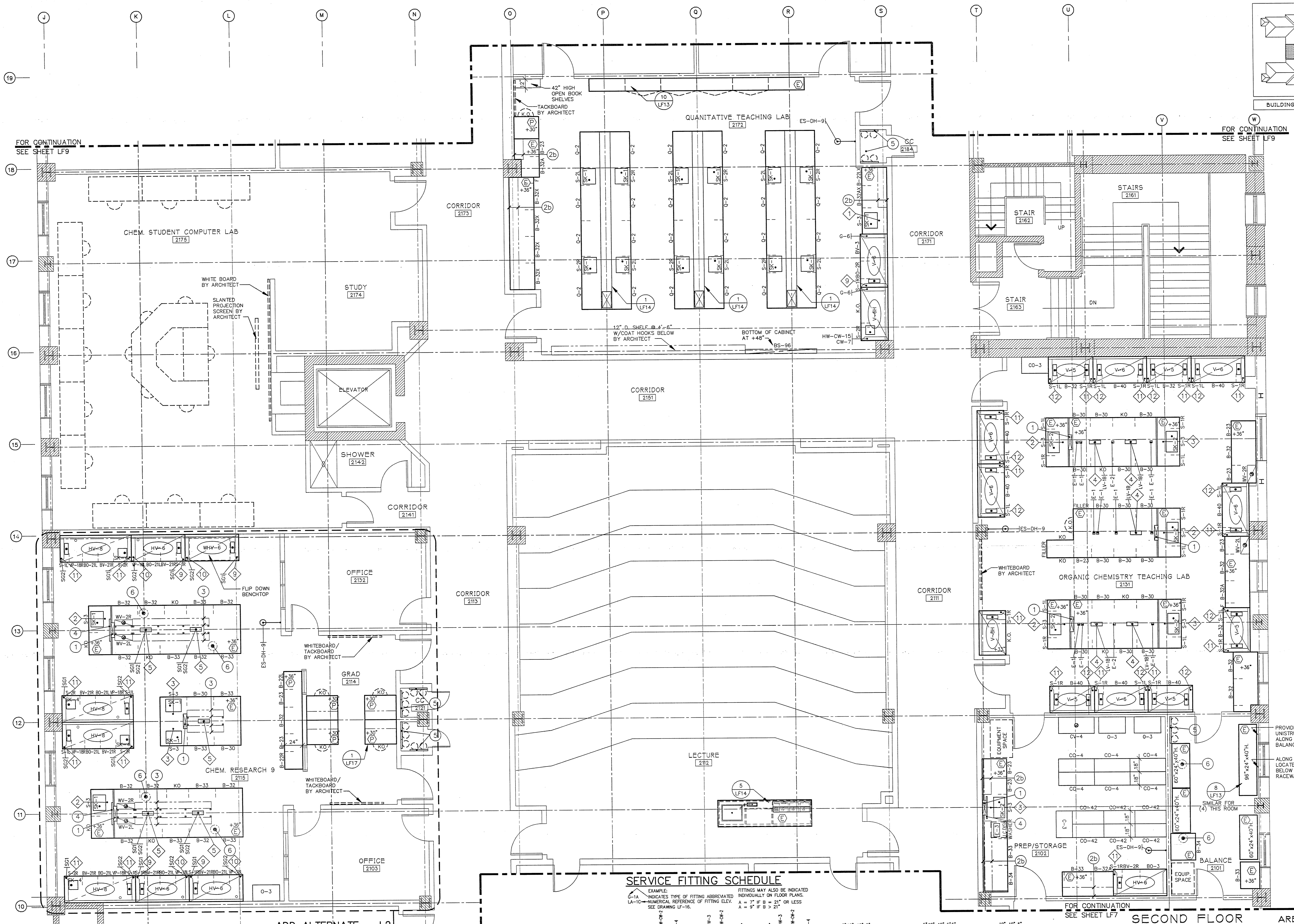


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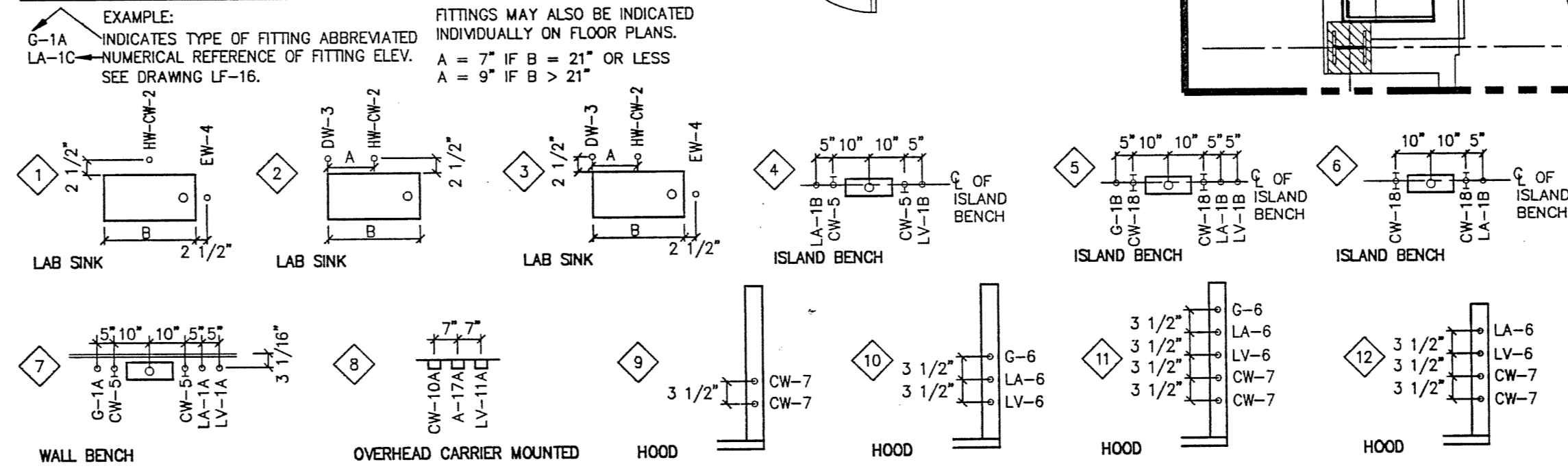
SHEET TITLE:

SECOND FLOOR PLAN - AREA THREE  
WEST

SHEET NO.:  
**LF8**



**SERVICE FITTING SCHEDULE**



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

AREA THREE  
AS BUILT

DRAWING REVISIONS:		
NO.	DATE	REMARKS

DATE: 5/16/94  
PROJECT#: 8962  
DESIGNED BY: PJK  
DRAWN BY: LRH, DCK  
CHECKED BY: PJK  
CHECKED BY: PJK

**WALL**  
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Laboratory Design Consultants  
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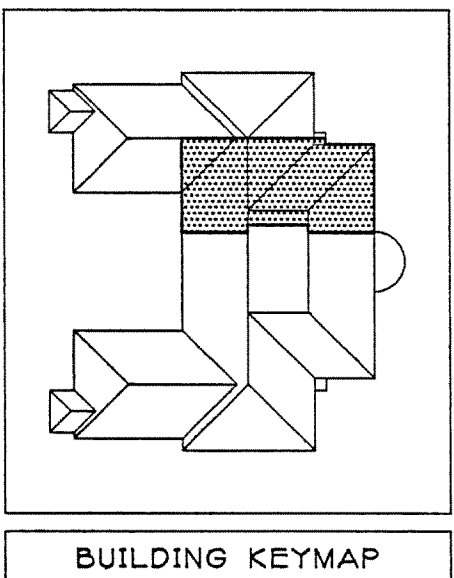
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SEE SHEET LF9

FOR CONTINUATION  
SEE SHEET LF9

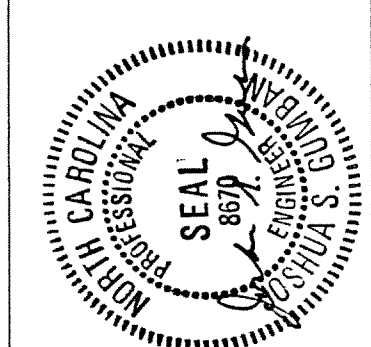
FOR CONTINUATION  
SEE SHEET LF7

FOR CONTINUATION  
SEE SHEET LF7

ADD ALTERNATE - L2



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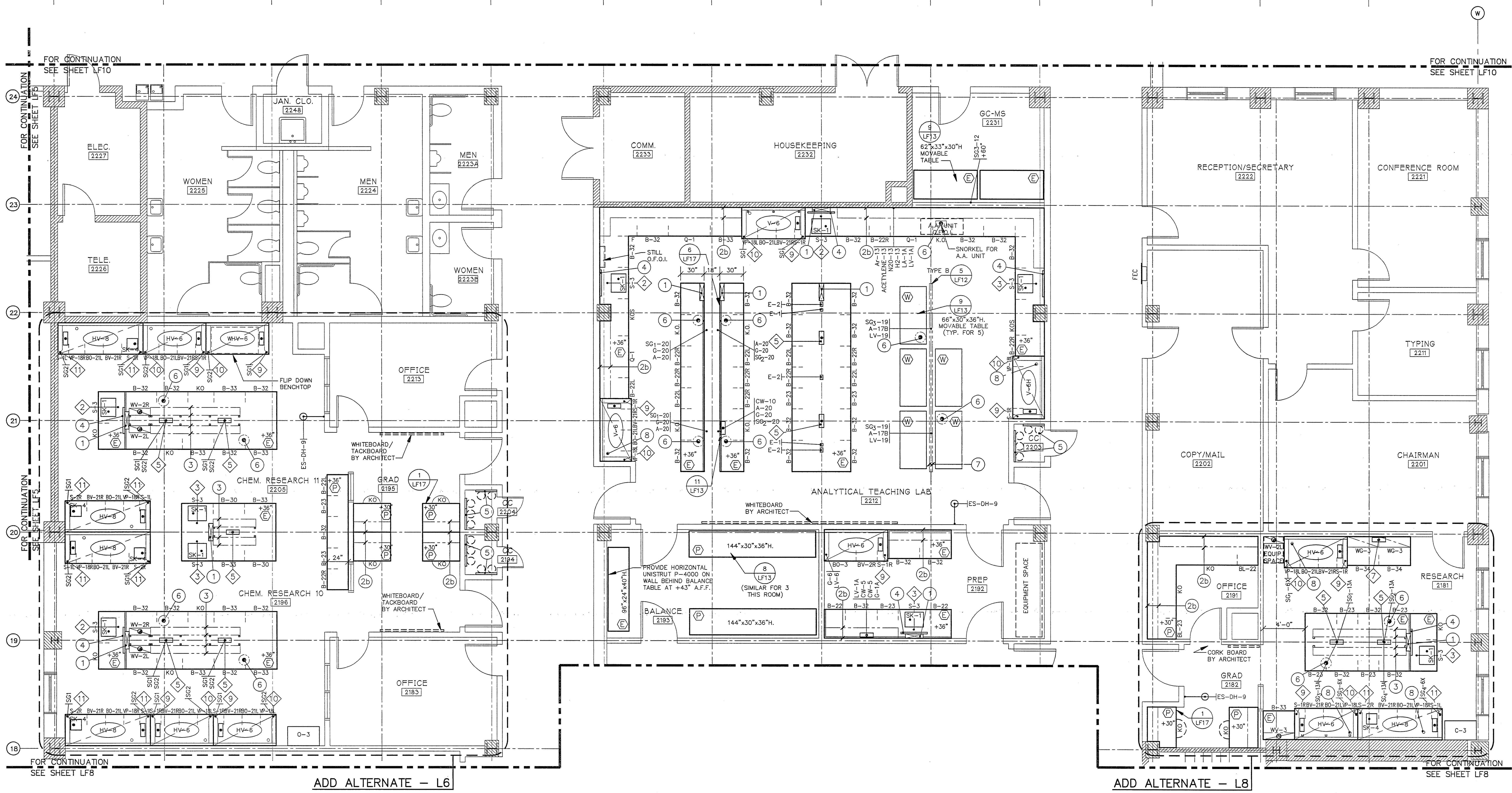
SCIENCE BUILDING  
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON  
CODE 49388 ITEM 301 ID#6084280301A

SHEET TITLE:

SECOND FLOOR PLAN - AREA FOUR  
EAST

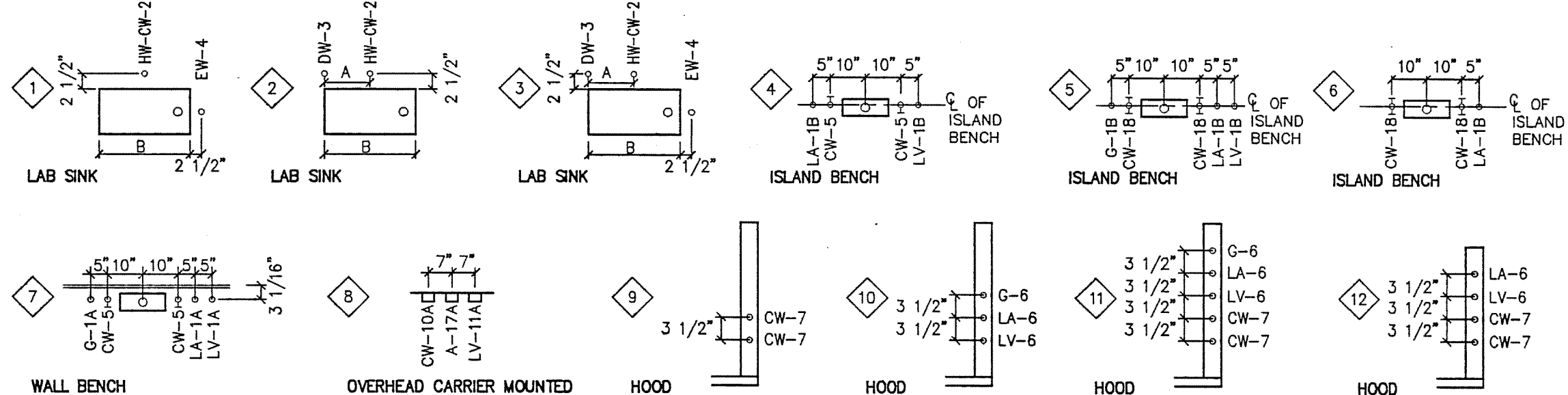
SHEET NO.:

LF9



SERVICE FITTING SCHEDULE

EXAMPLE:  
G-1A INDICATES TYPE OF FITTING ABBREVIATED  
LA-10 NUMERICAL REFERENCE OF FITTING ELEV.  
SEE DRAWING LF-16.  
FITTINGS MAY ALSO BE INDICATED  
INDIVIDUALLY ON FLOOR PLANS.  
A = 7" IF B = 21" OR LESS  
A = 9" IF B > 21"



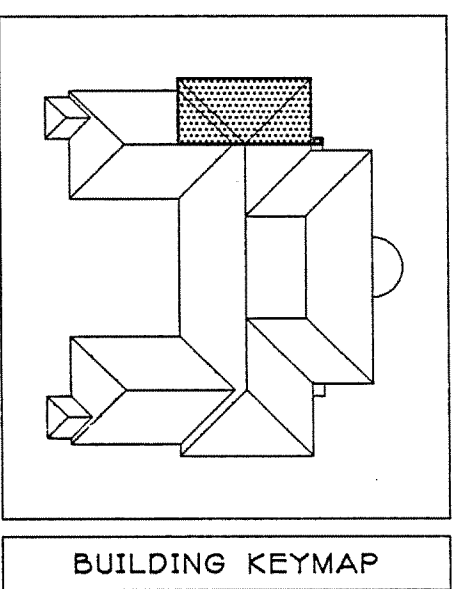
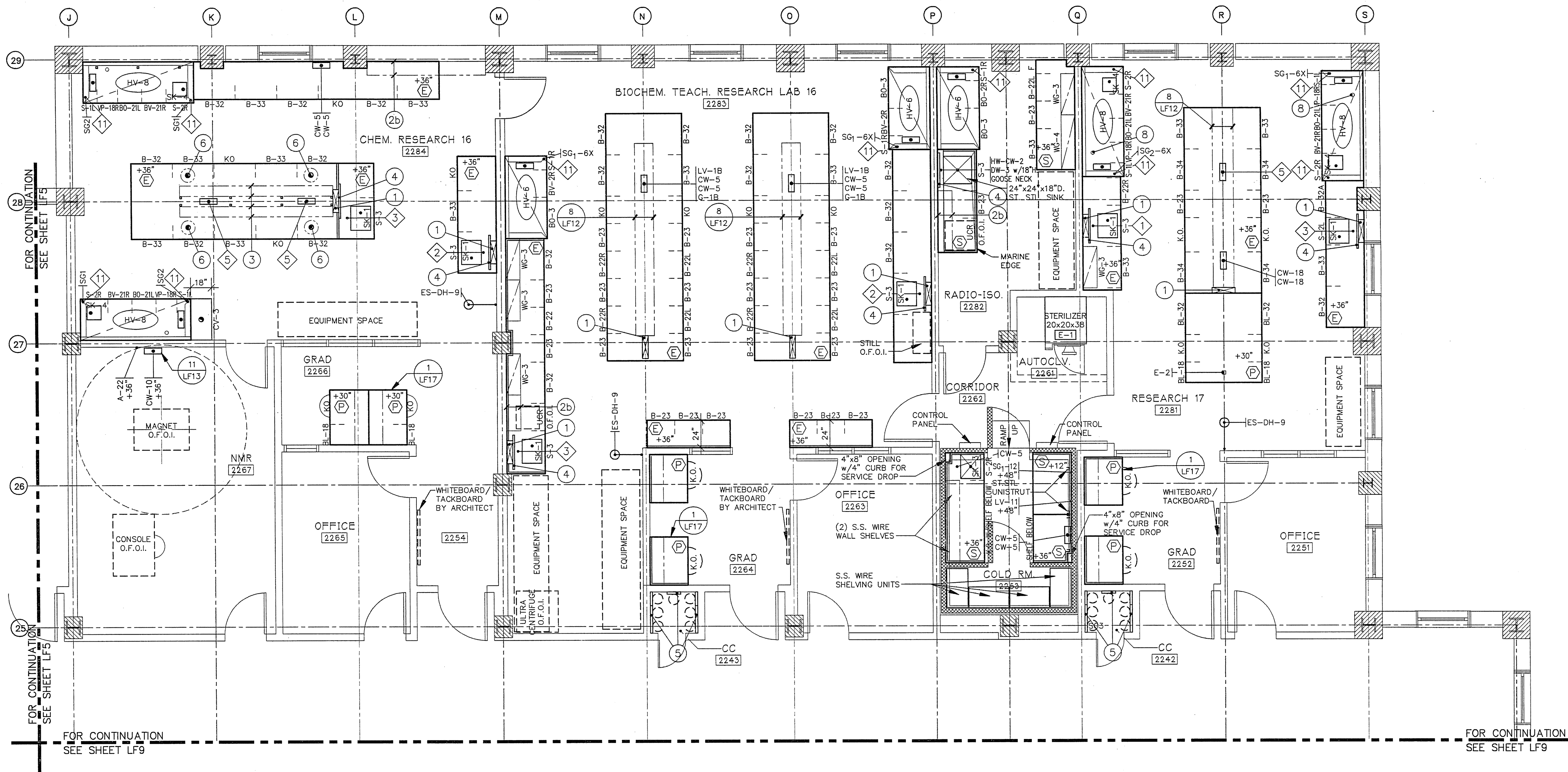
SECOND FLOOR  
SCALE: 1/4" = 1'-0"

AREA FOUR  
AS BUILT



DRAWING REVISIONS:		
NO.	DATE	REMARKS

DATE: 5/16/94  
PROJECT#: 8962  
DESIGNED BY: PJK  
DRAWN BY: LRH/DCK  
CHECKED BY: PJK  
CHECKED BY:



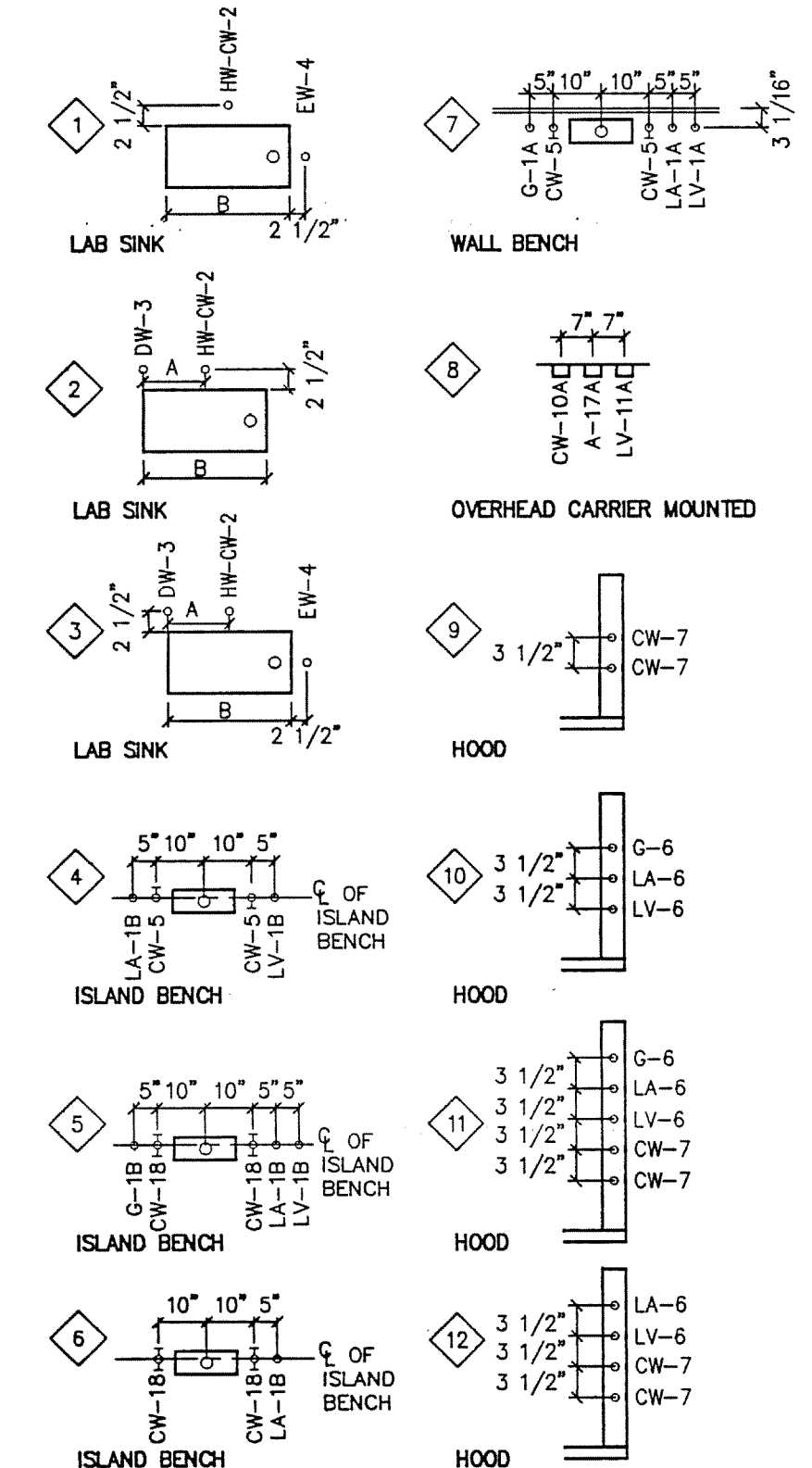
**JEFFERIES AND FARIS ASSOCIATES**  
ARCHITECTS • PLANNERS  
SEA TOWERS, SUITE 201  
2002 EASTWOOD ROAD  
WILMINGTON, N.C. 28403  
TEL: 910.256.6633  
FAX: 910.256.9088



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CODE 44388 ITEM 301 ID#6084280301A

# SERVICE FITTING SCHEDULE

EXAMPLE: FITTINGS MAY ALSO BE INDICATED INDIVIDUALLY ON FLOOR PLANS.  
G-1A INDICATES TYPE OF FITTING ABBREVIATED INDIVIDUALLY ON FLOOR PLANS.  
LA-1C NUMERICAL REFERENCE OF FITTING ELEV. A = 7" IF B = 21" OR LESS  
SEE DRAWING LF-16. A = 9" IF B > 21"



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

AREA FIVE  
AS BUILT

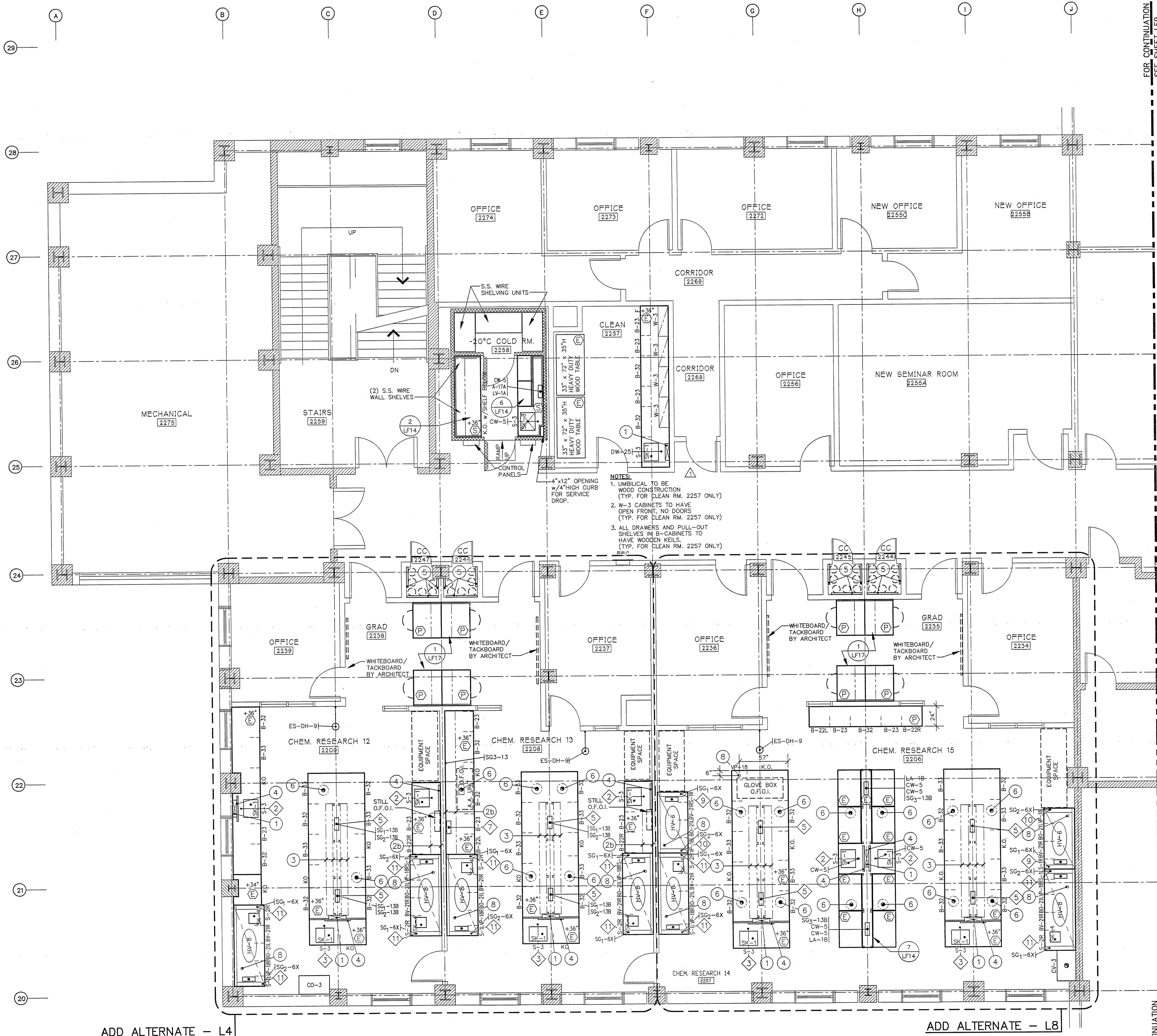
DRAWING REVISIONS:		
NO.	DATE	REMARKS

DATE: 5/16/94  
PROJECT#: 8962  
DESIGNED BY: PJK  
DRAWN BY: LKH  
CHECKED BY: PJK

SHEET NO.:

**LF10**

**Wall**  
Earl Wall Associates  
Laboratory Design Consultants  
5348 Carroll Canyon Road  
San Diego, California 92121  
(619) 457-2400

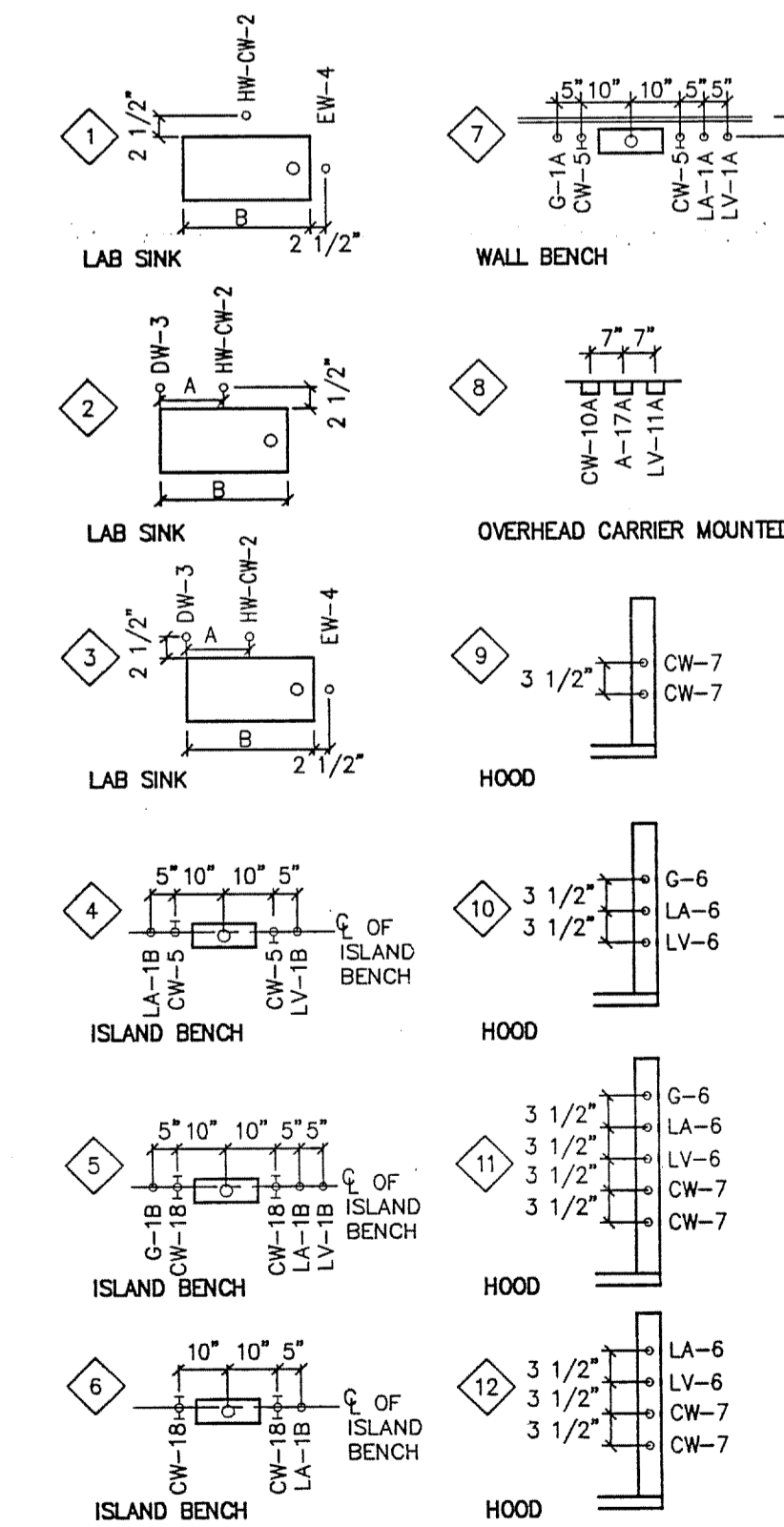


FOR CONTINUATION  
SEE SHEET LF9

FOR CONTINUATION  
SEE SHEET LF9

# SERVICE FITTING SCHEDULE

EXAMPLE:  
G-1A INDICATES TYPE OF FITTING ABBREVIATED INDIVIDUALLY ON FLOOR PLANS.  
LA-10 NUMERICAL REFERENCE OF FITTING ELEV. SEE DRAWING LF-10.  
FITTINGS MAY ALSO BE INDICATED INDIVIDUALLY ON FLOOR PLANS.  
A = 7" IF B = 21" OR LESS  
A = 9" IF B > 21"



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

**AREA SIX**  
AS BUILT

DRAWING REVISIONS:		
NO.	DATE	REMARKS
1	9-15-95	REVISED CLEAN ROOM 2257

DATE: 5/16/94  
PROJECT#: 8962  
DESIGNED BY: PJK  
DRAWN BY: LRH, DCK  
CHECKED BY: PJK  
CHECKED BY:

**WALLS**  
Earl Walls Associates  
Laboratory Design Consultants  
5348 Carrol Canyon Road  
San Diego, California 92121  
(619) 457-2400

SHEET NO.:

**LF11**

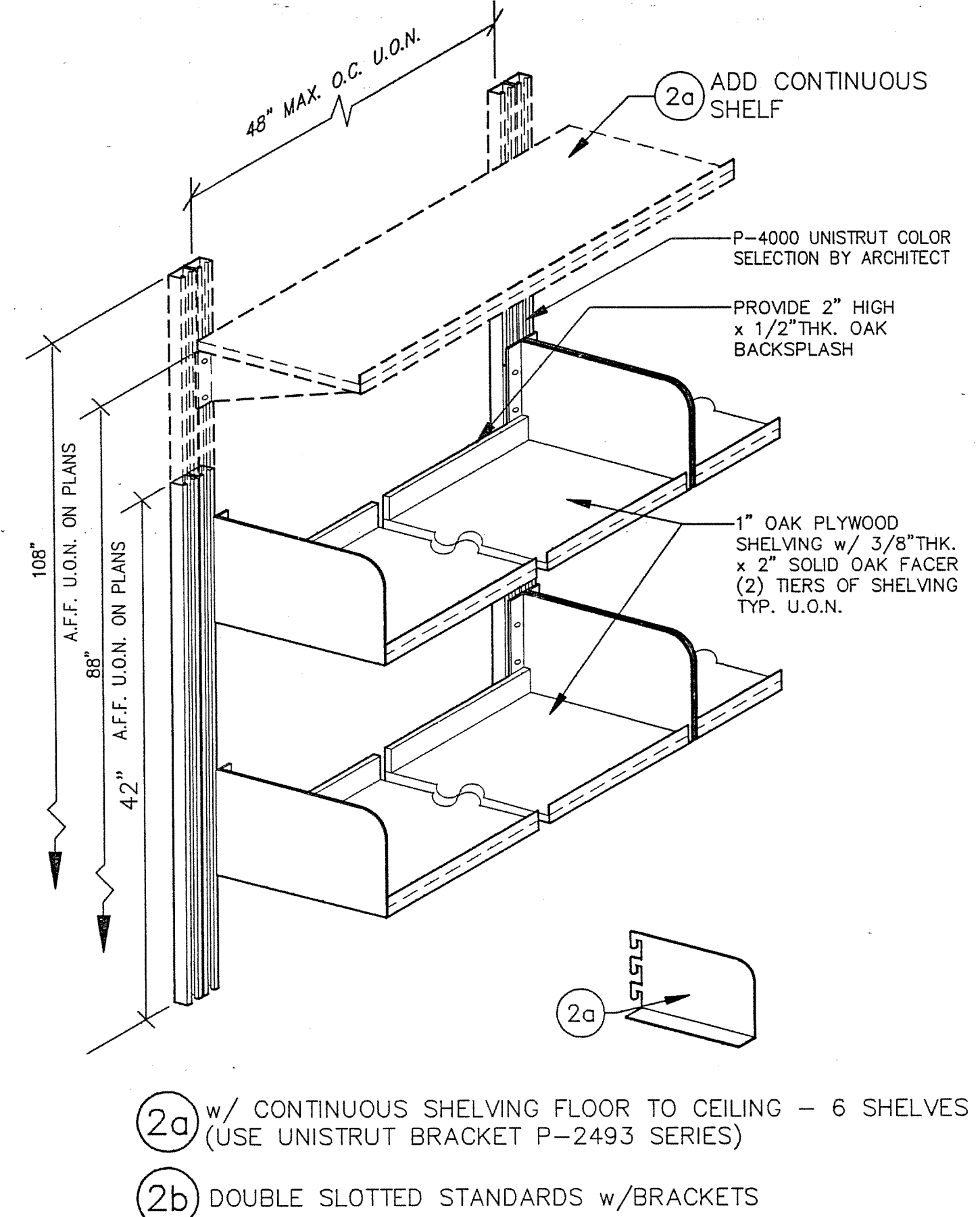
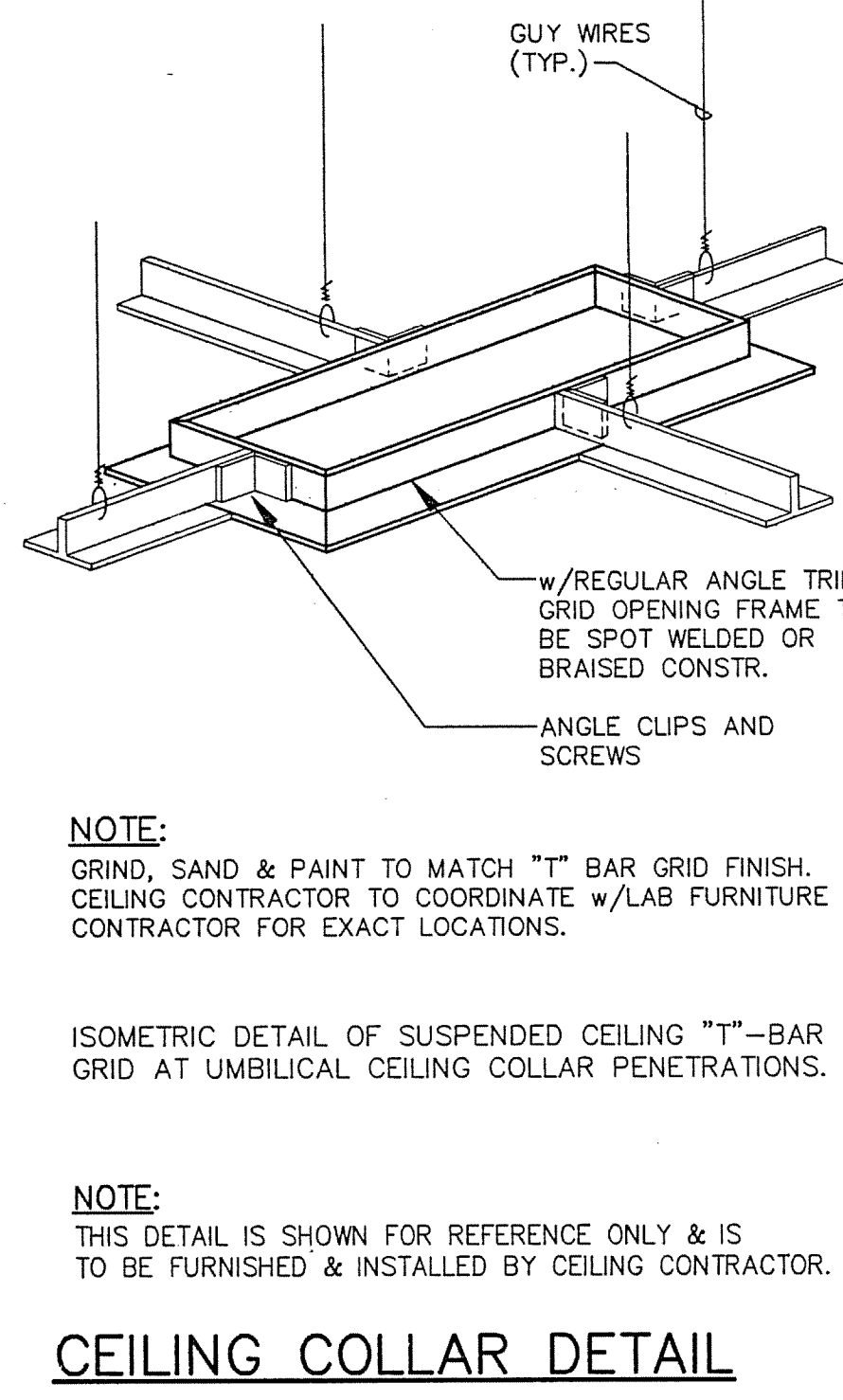
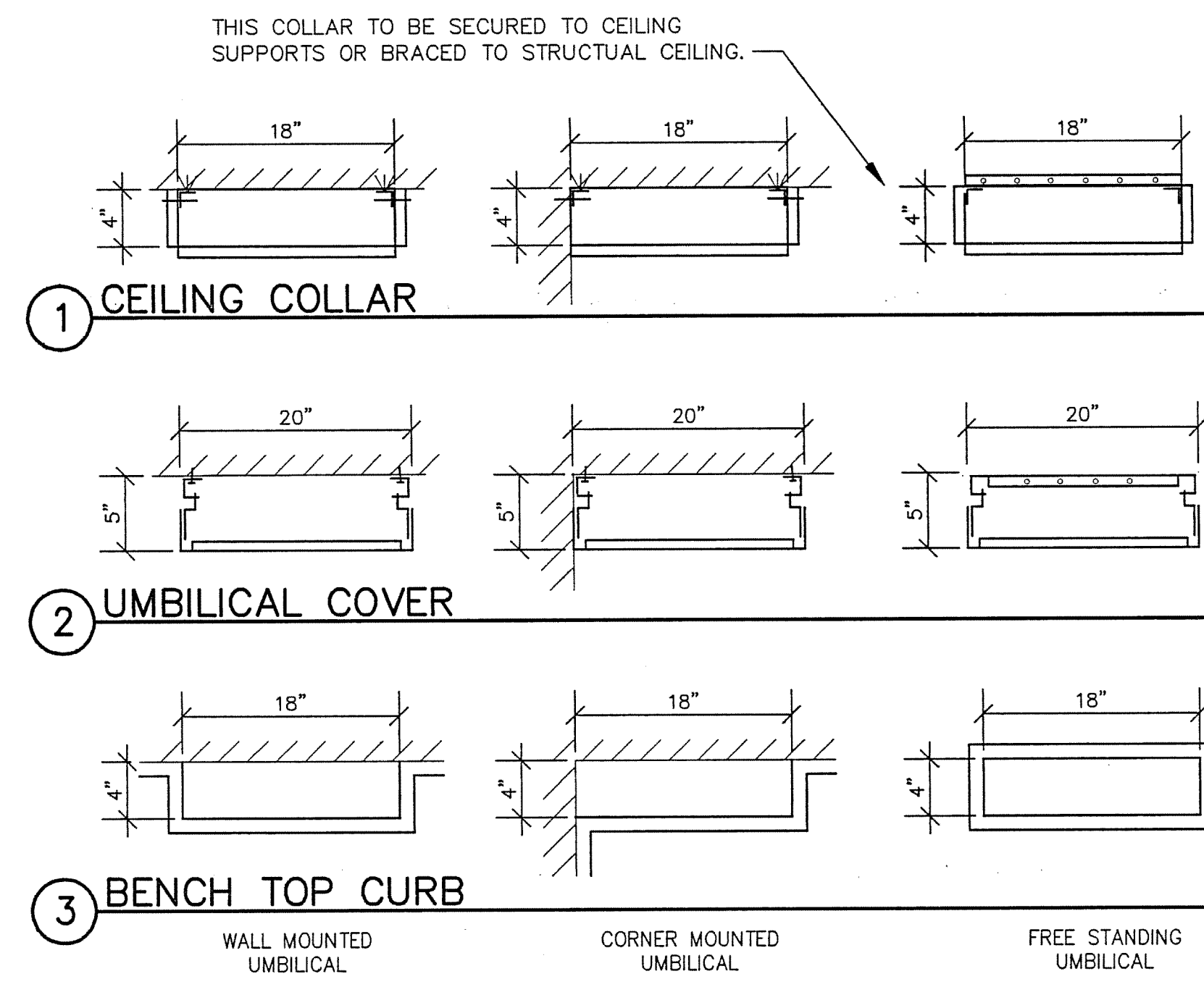
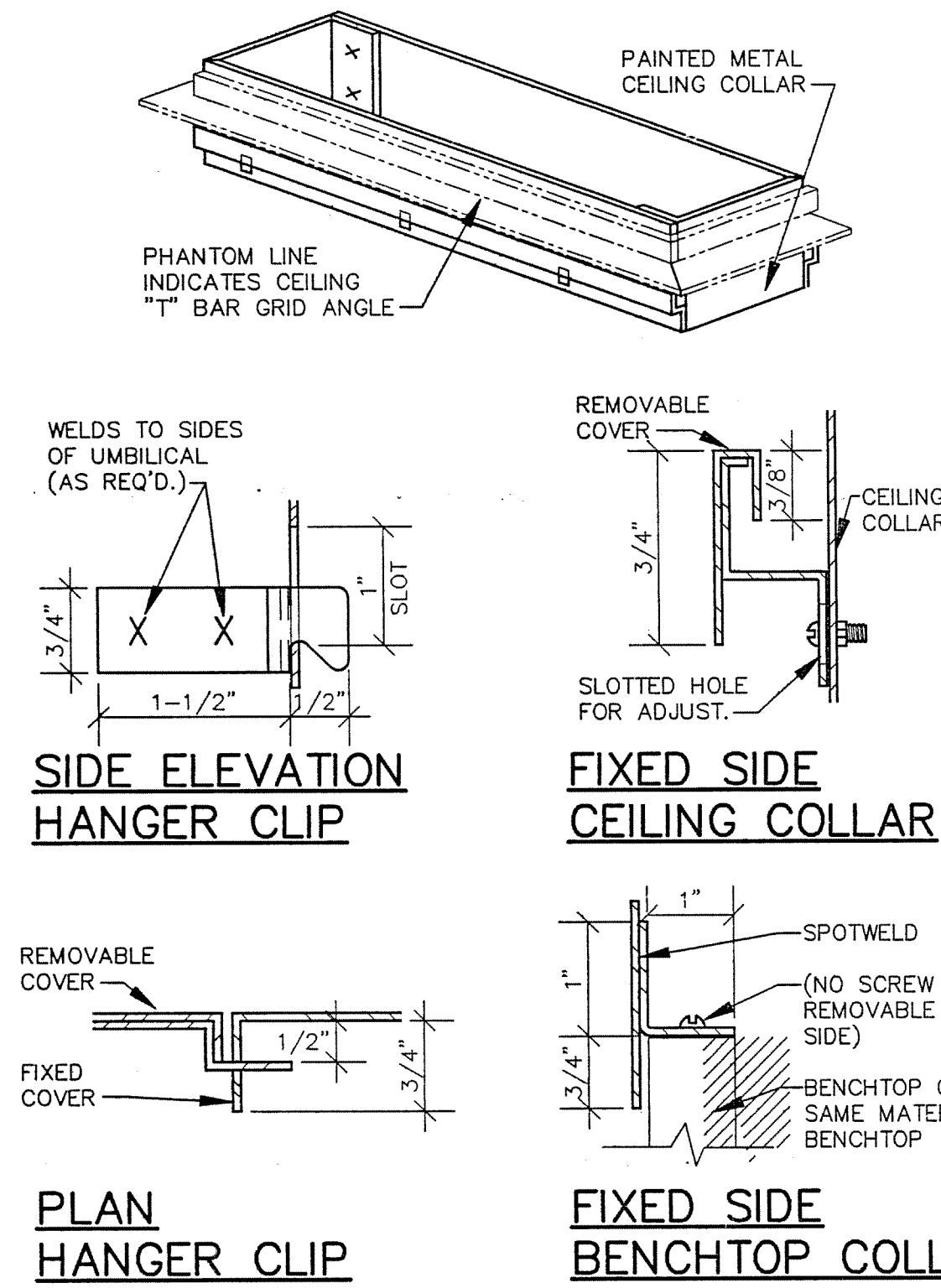
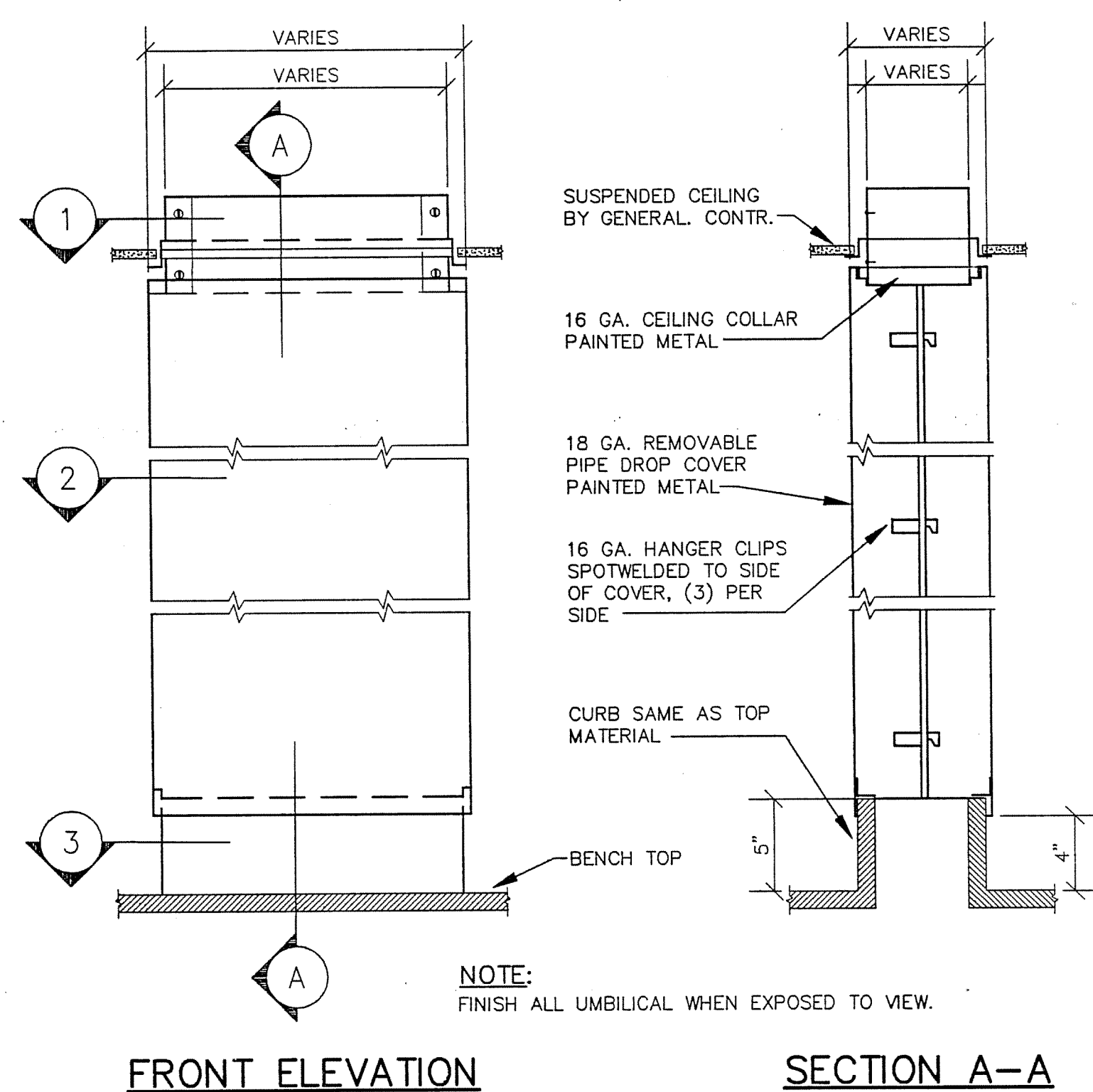
SECOND FLOOR PLAN - AREA SIX  
EAST

SHEET TITLE:

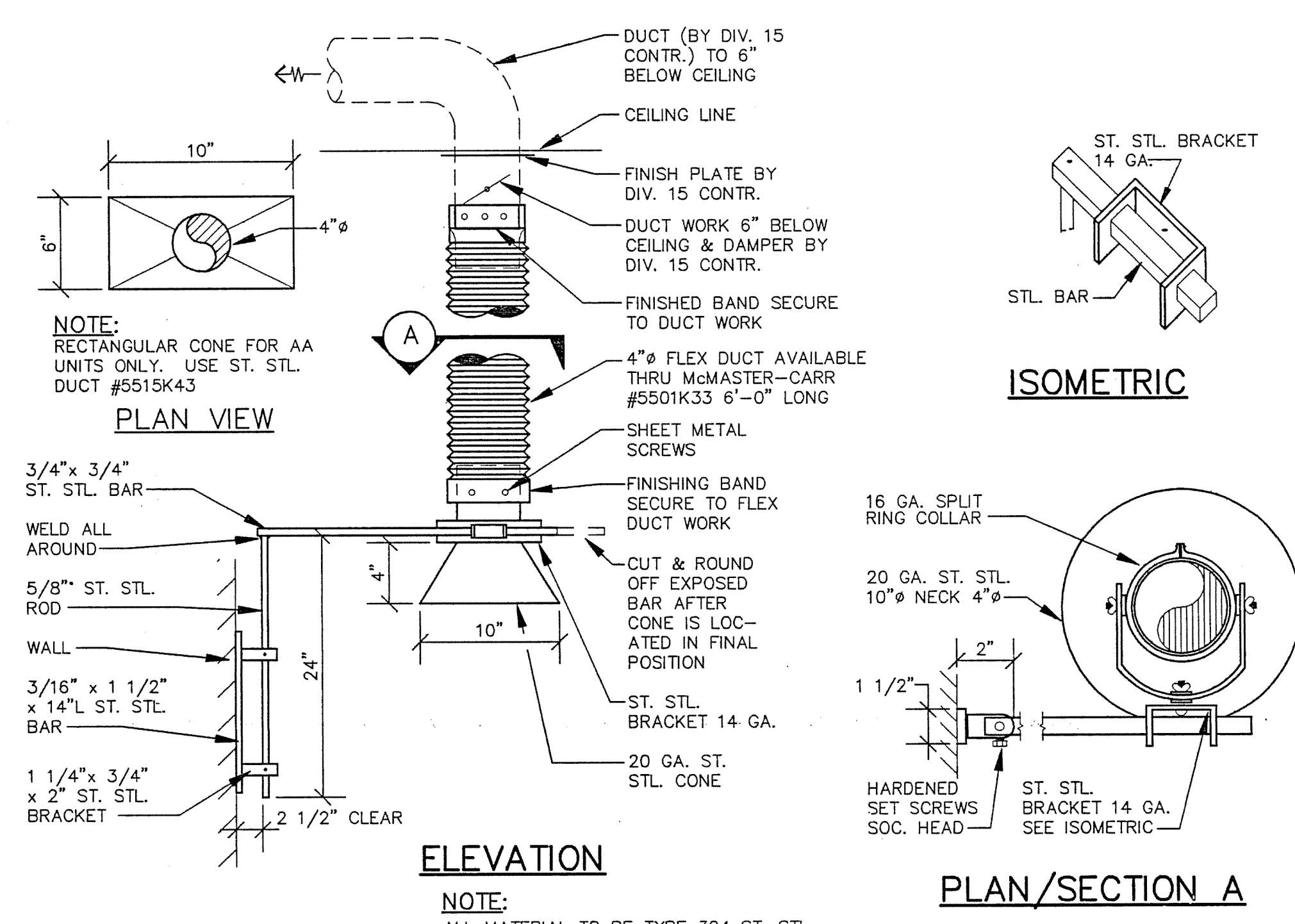
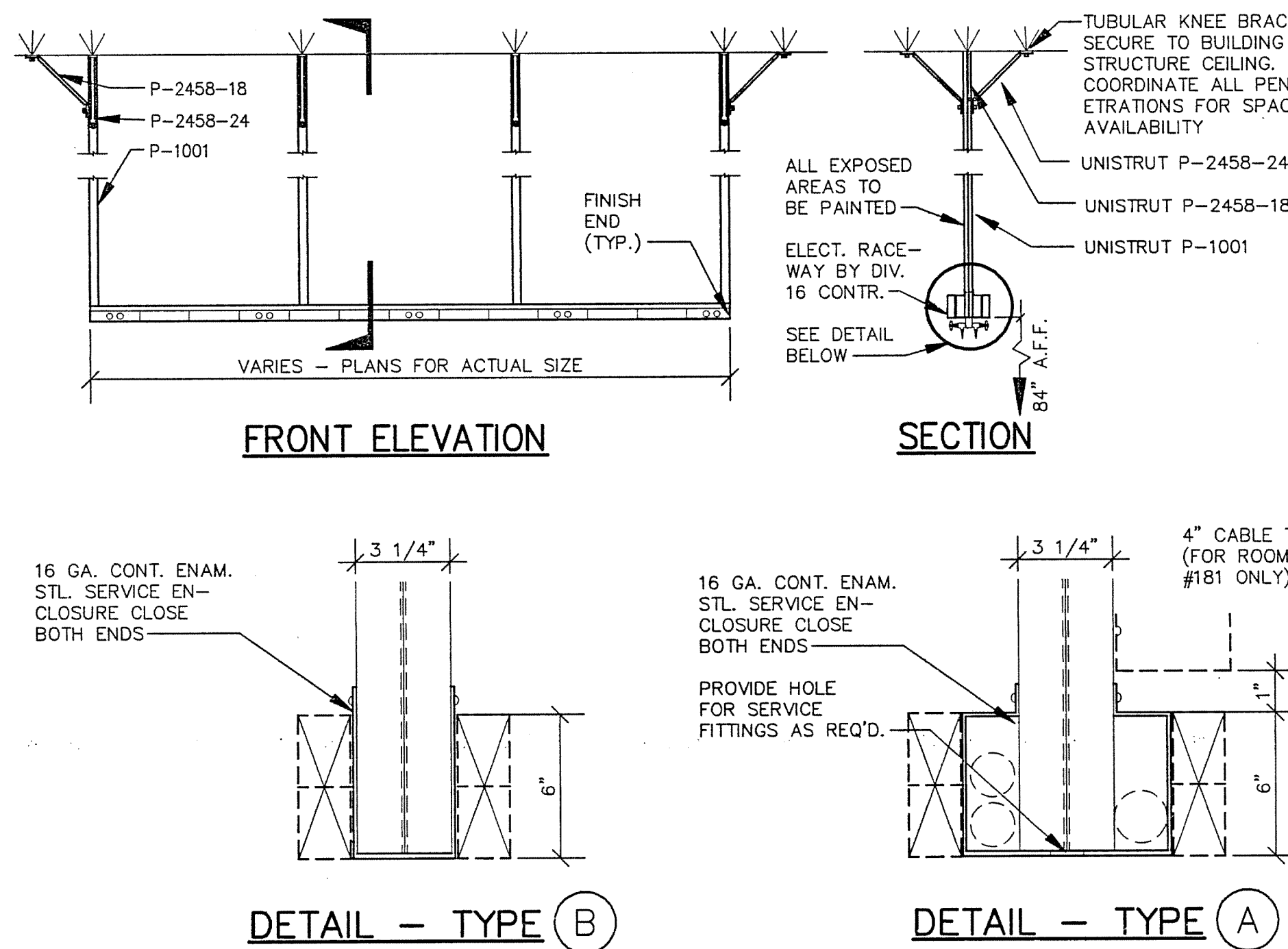
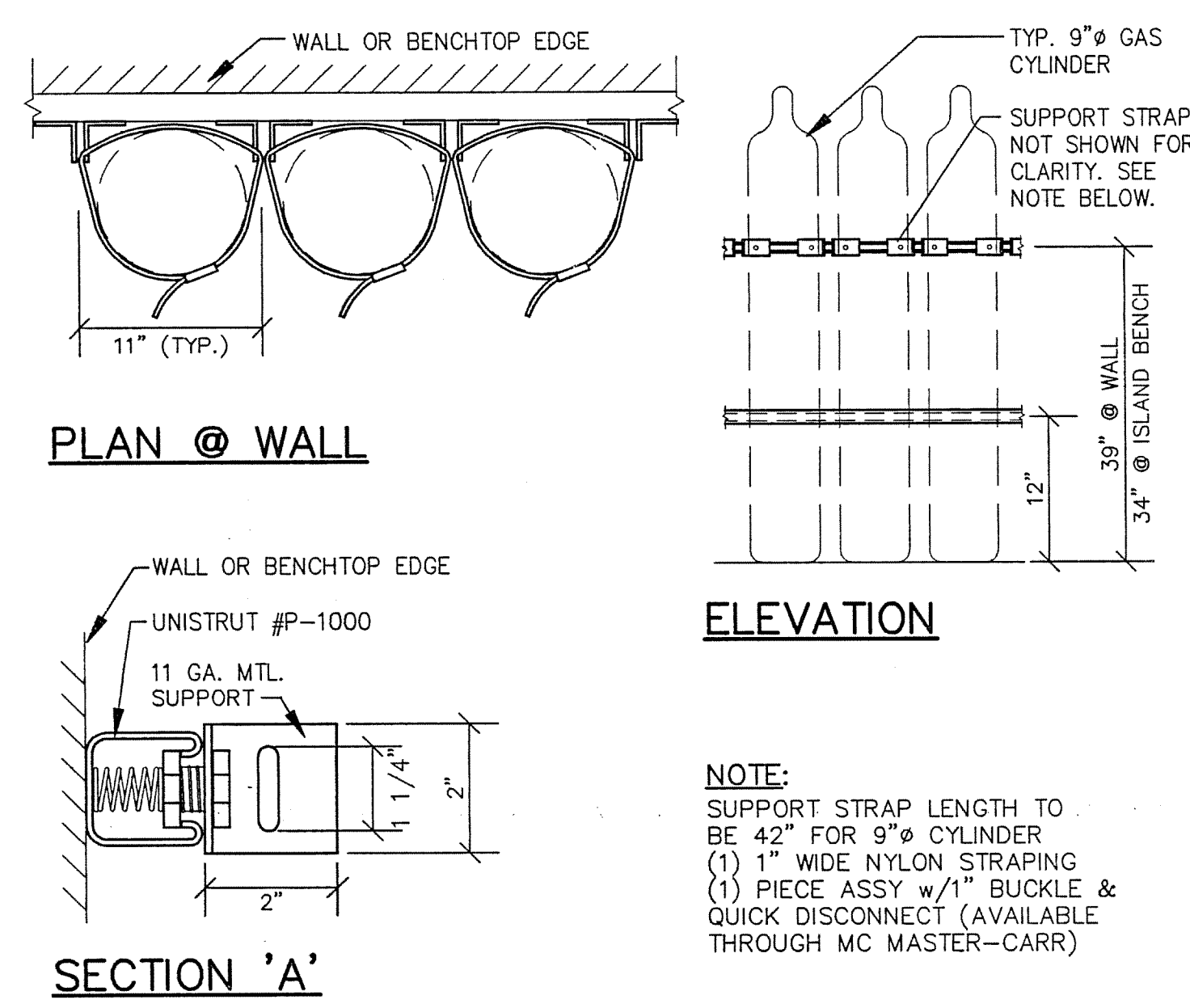
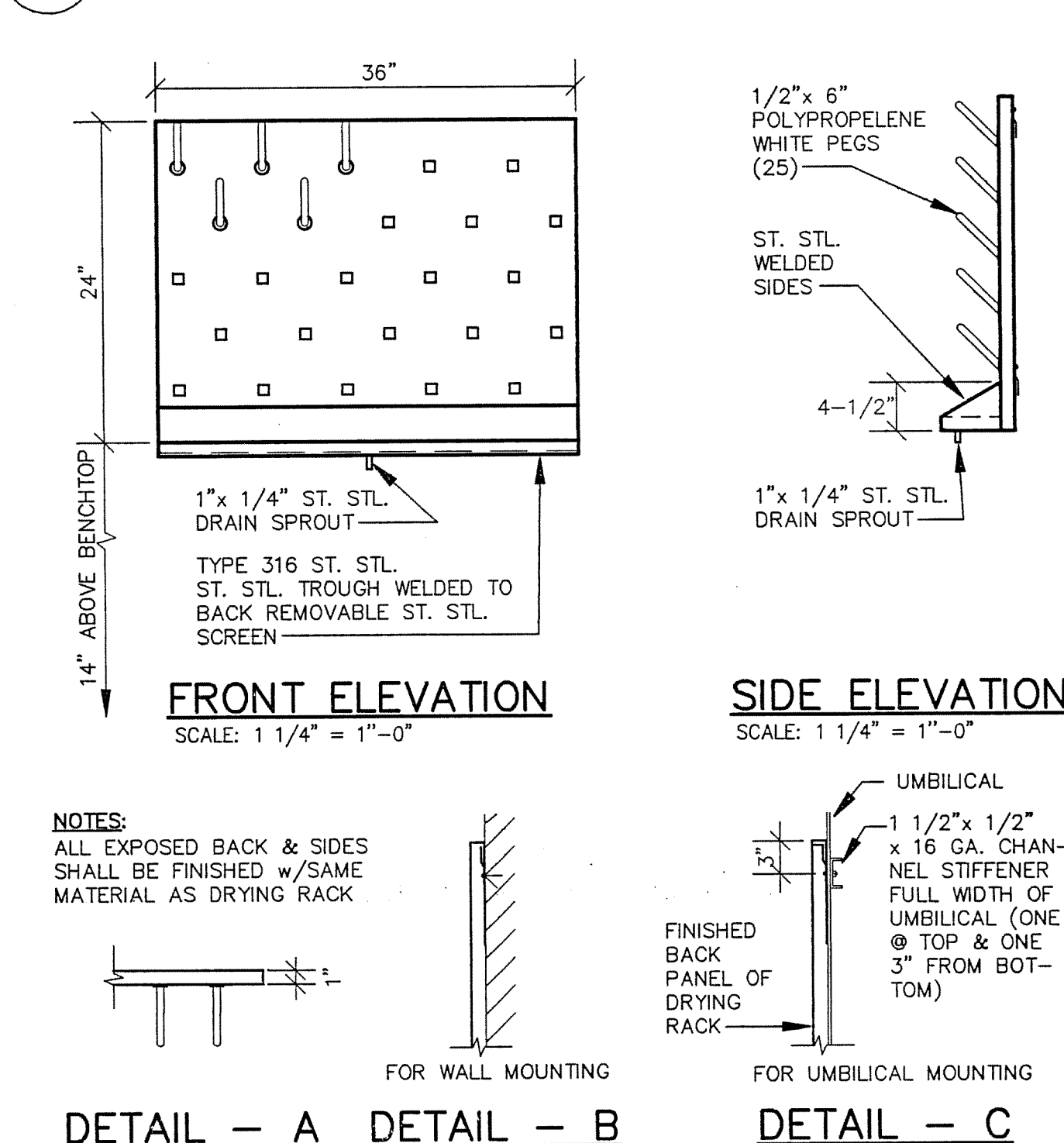
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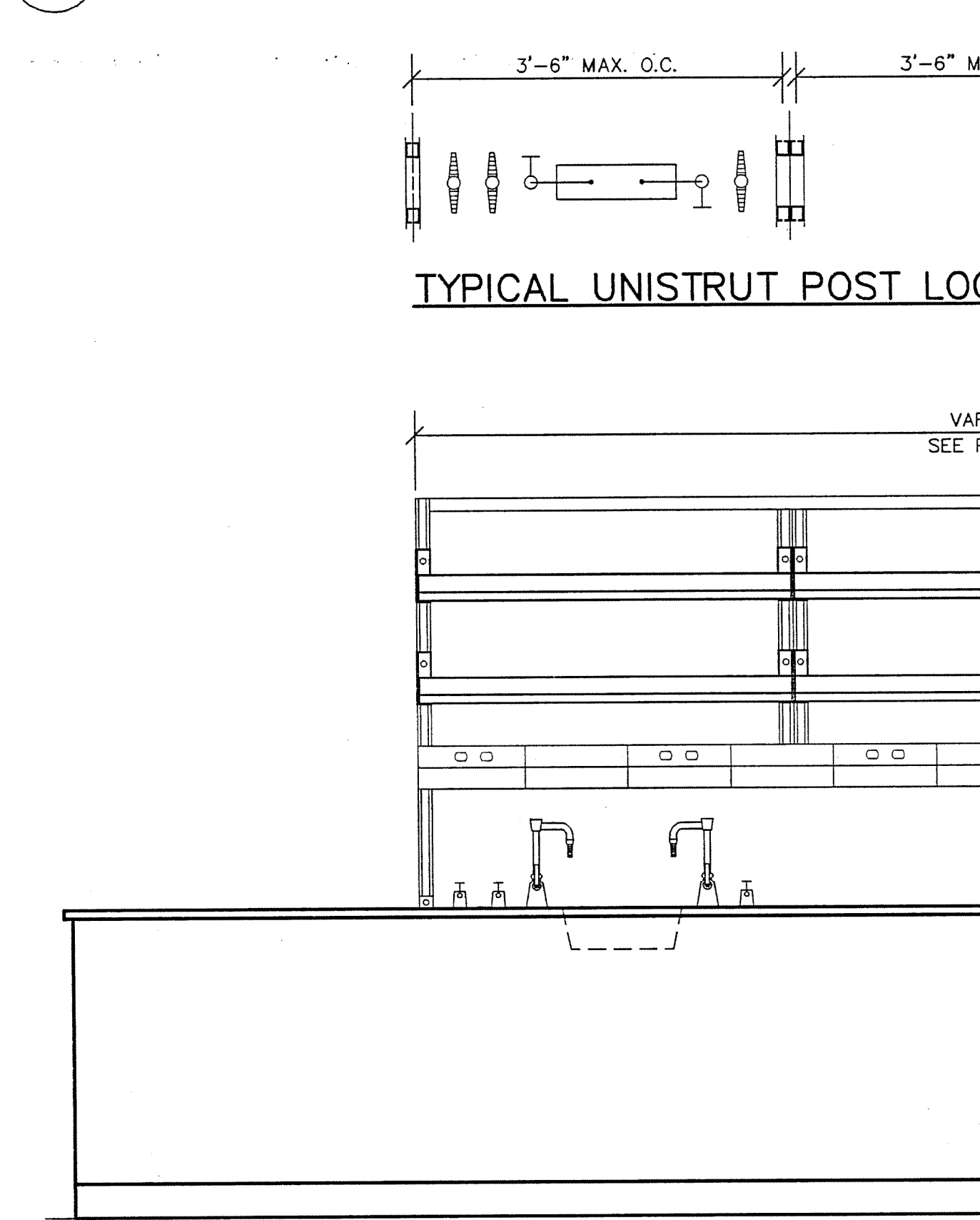
JEFFRIES AND FARIS  
ASSOCIATES  
ARCHITECTS • PLANNERS  
SEA TOWERS, SUITE 201  
2002 EASTWOOD ROAD  
WILMINGTON, N.C. 28403  
TEL: 910.256.6633  
FAX: 910.256.9088



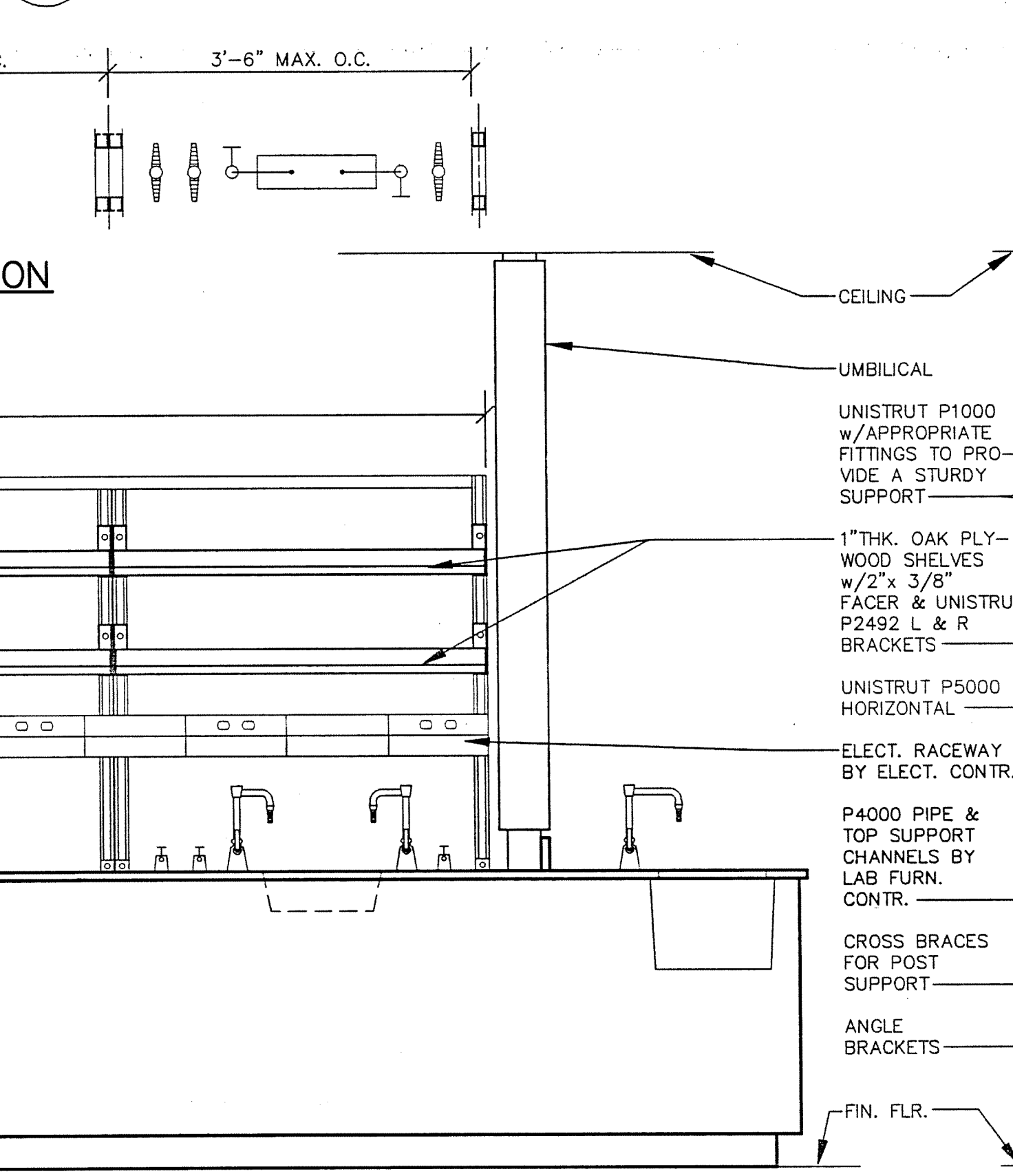
## 1 UMBILICAL DETAIL



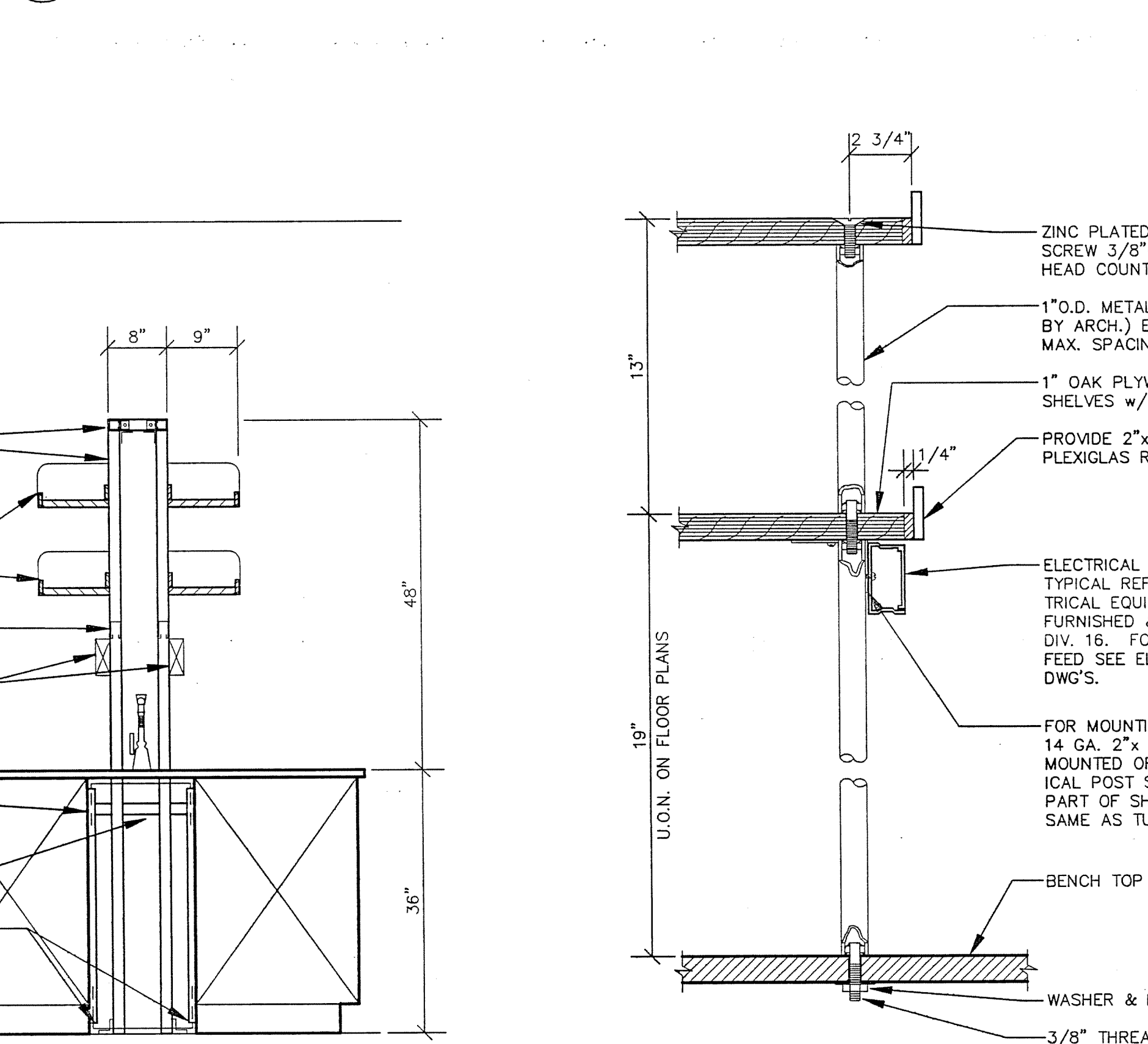
## 3 ST. STL. DRYING RACK



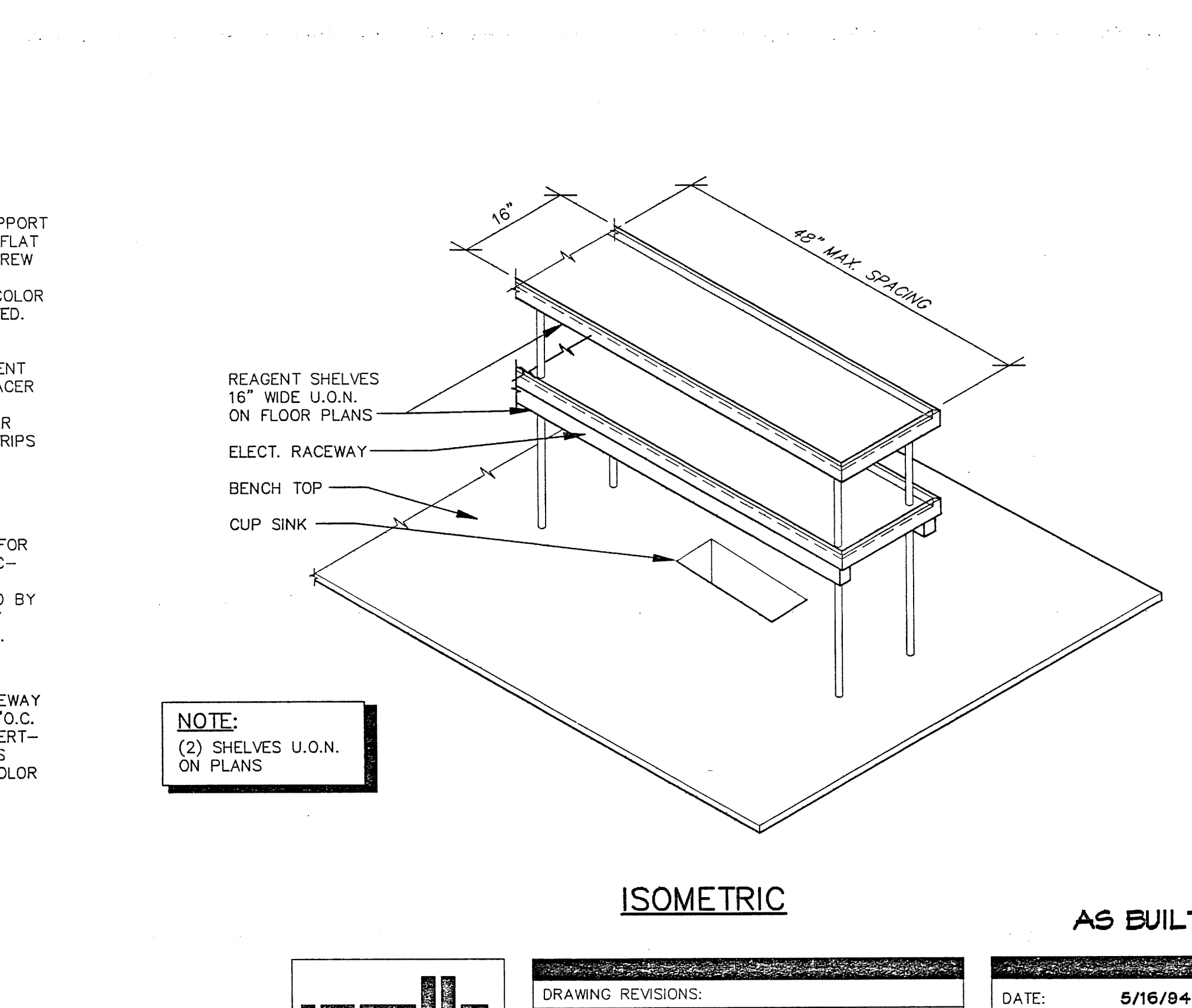
## 4 CYLINDER STRAP DETAIL



## 5 OVERHEAD SERVICE CARRIER



## 6 SNORKEL DETAIL



## 7 ADJUSTABLE REAGENT SHELF DETAIL

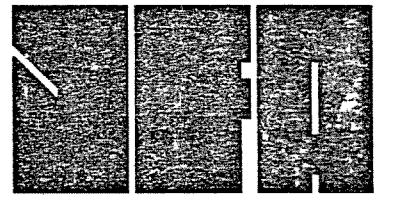


## 8 REAGENT SHELVING DETAIL

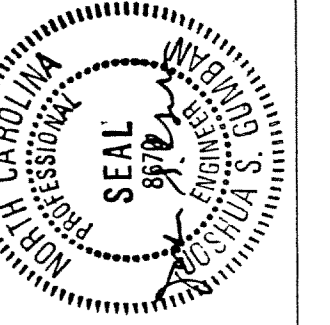


## 8 REAGENT SHELVING DETAIL





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ARCHITECTS & PLANNERS  
SEA TOWERS, SUITE 201  
2002 EASTWOOD ROAD  
WILMINGTON, N.C. 28403  
TEL: 910.256.6633  
FAX: 910.256.9088

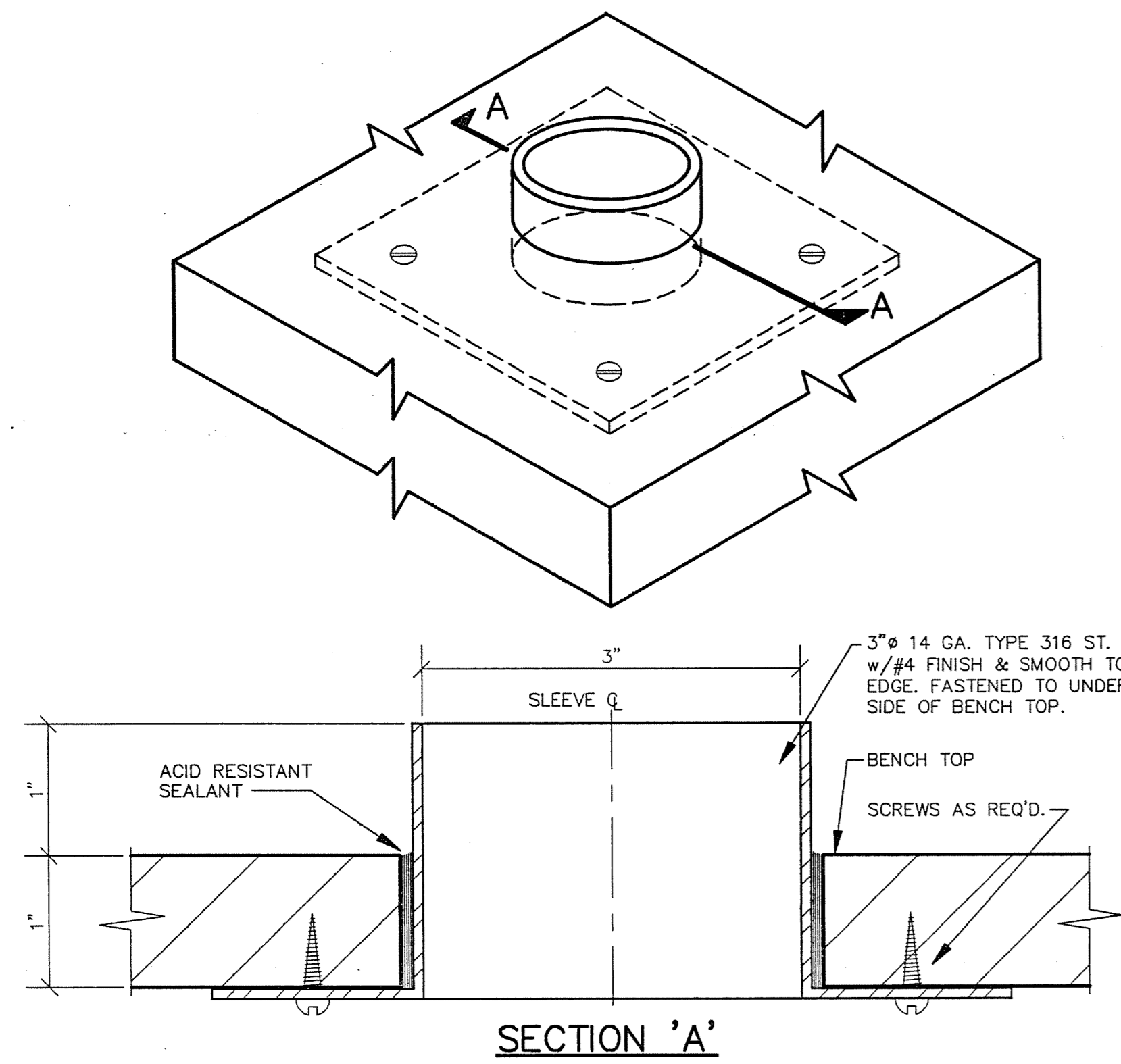


SCIENCE BUILDING  
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON  
CODE 44300 ITEM 301 ID#6089280801A

LAB FURNISHINGS  
DETAILS

SHEET NO.:

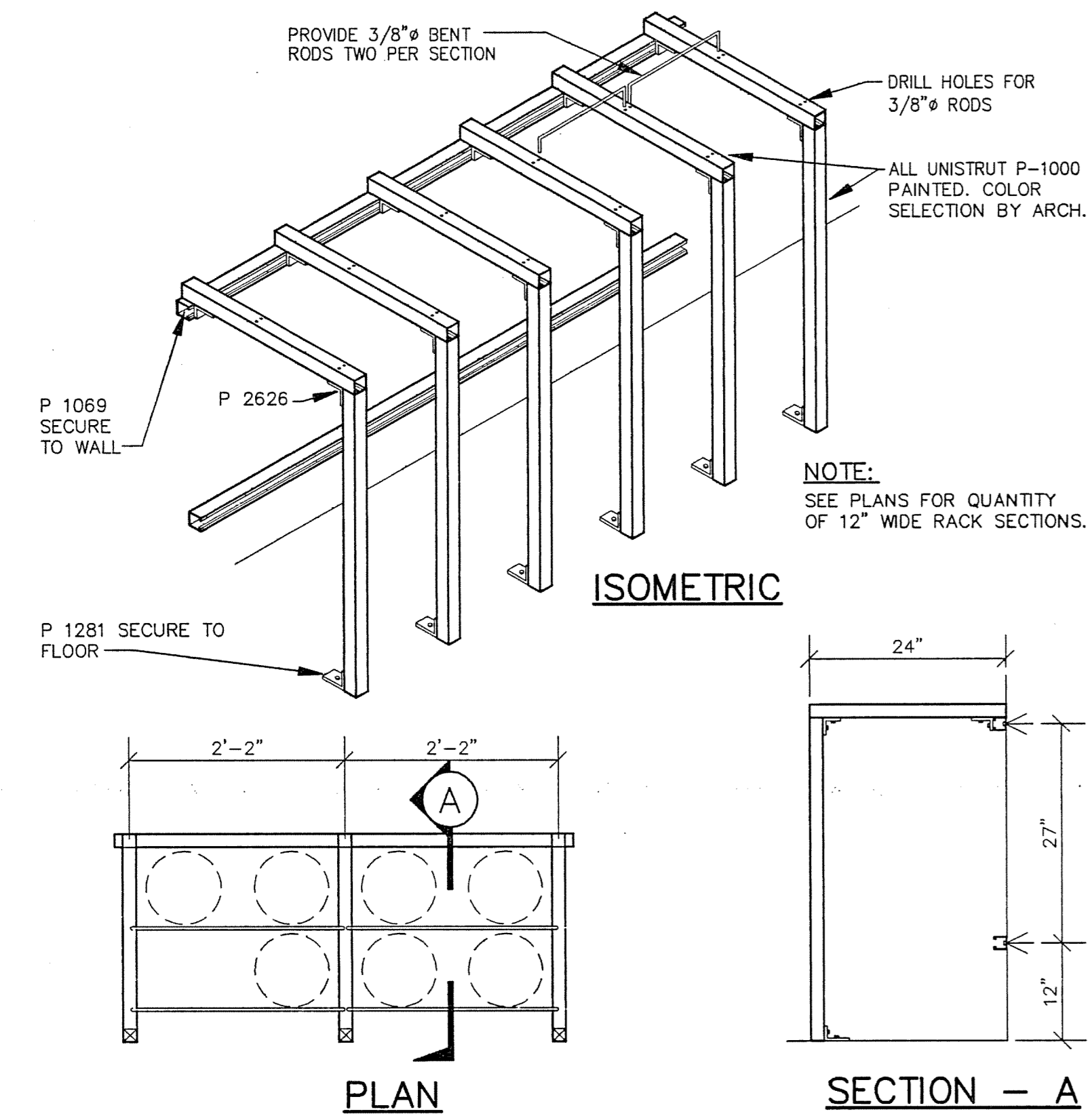
LF13



SECTION 'A'

1 BENCH TOP SLEEVE  
SCALE: 1/2" = 1'-0"

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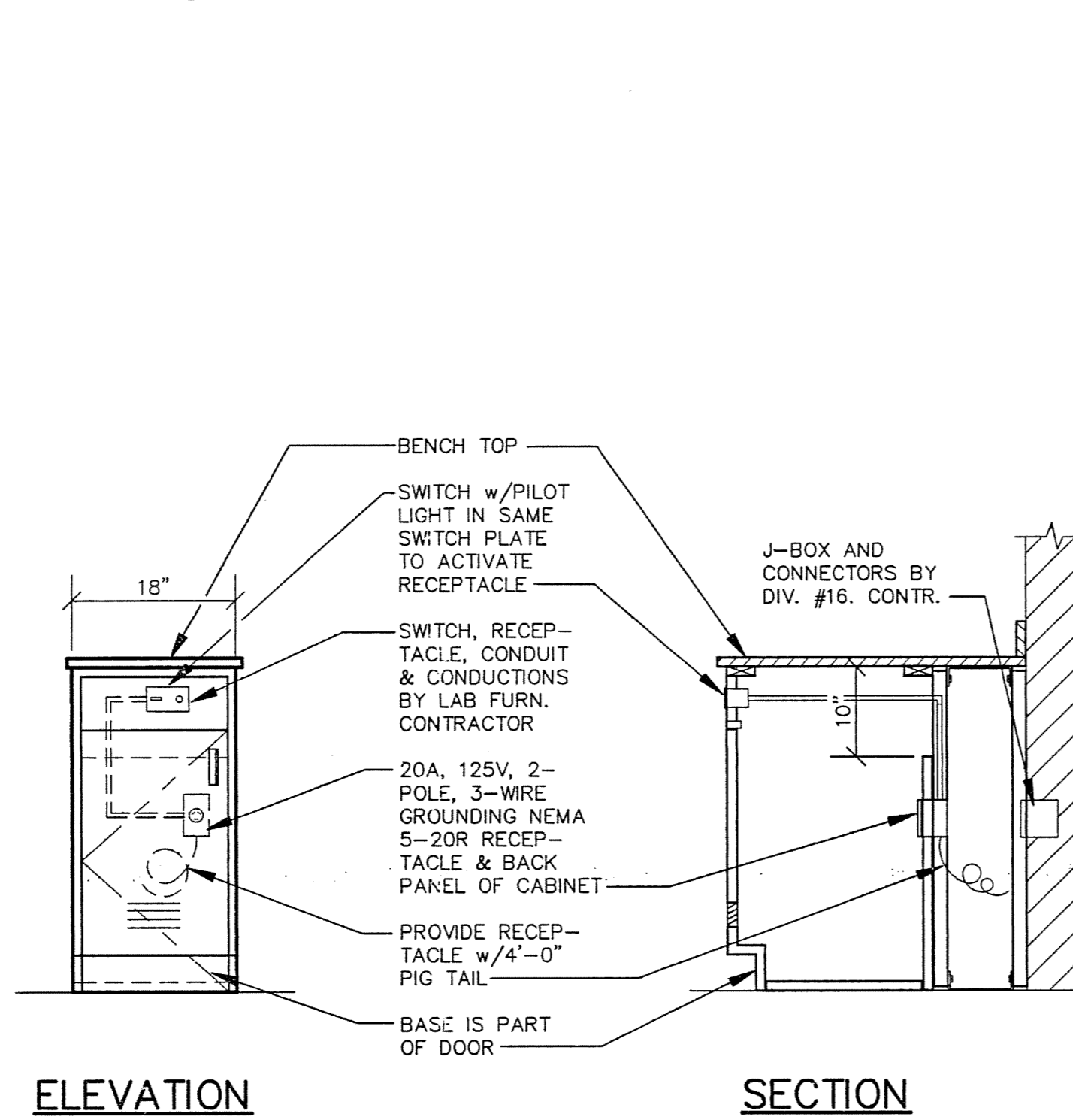
ISOMETRIC

PLAN

SECTION - A

2 TYPICAL CUPSINK DETAIL  
NOT TO SCALE

EARL WALLS ASSOCIATES © 1994



ELEVATION

SECTION

3 TYPICAL ISLAND BENCH DETAIL  
SCALE: 3/4" = 1'-0"

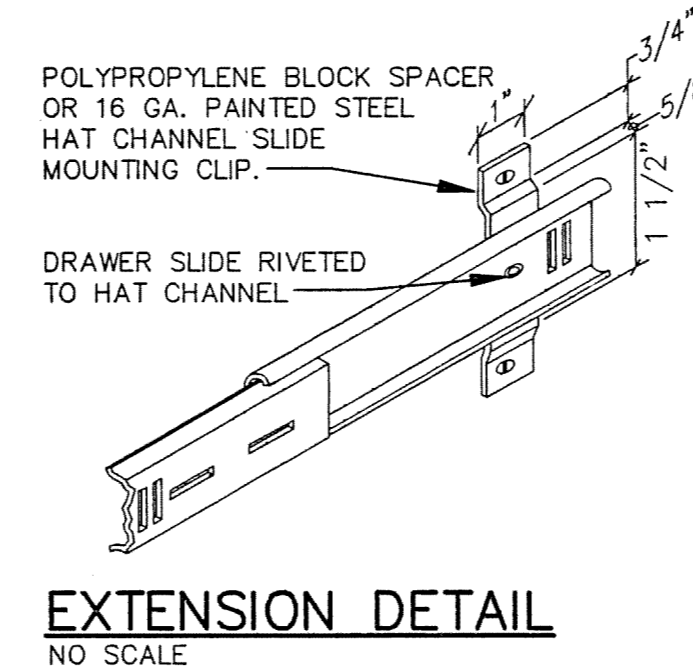
EARL WALLS ASSOCIATES © 1994



- NOTES:
1. LOCATION AT ISLAND BENCHES TO BE  $\phi$  OF BENCH.
  2. PROVIDE A WATER TIGHT SEAL AT ALL ACID RESISTANT PLASTIC LAMINATE TOP CUT EDGES.

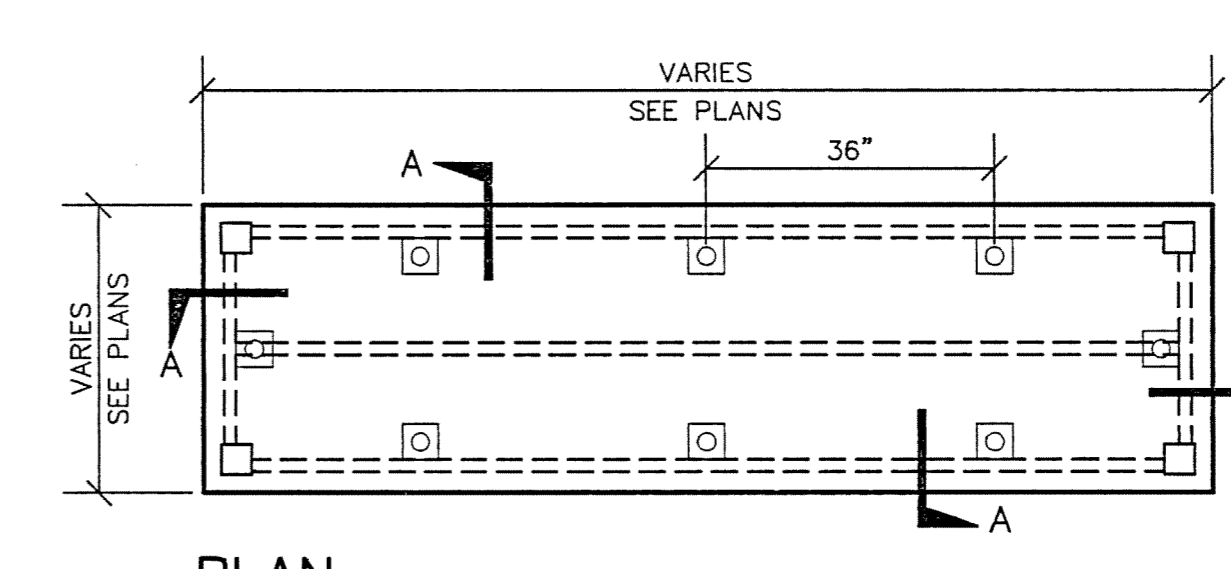
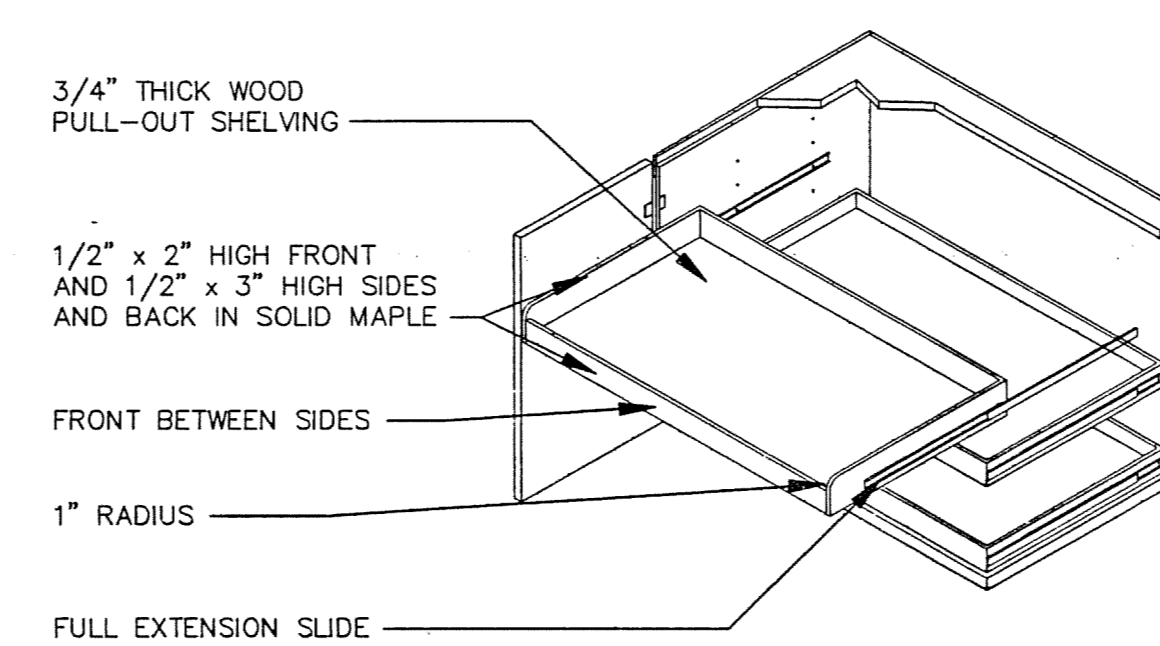
4 TYPICAL WALL BENCH DETAIL  
SCALE: 3/4" = 1'-0"

EARL WALLS ASSOCIATES © 1994

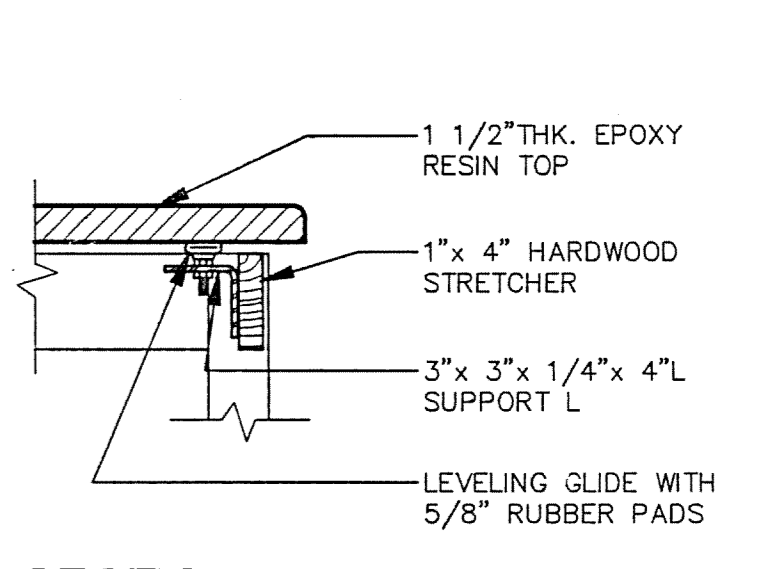


EXTENSION DETAIL  
NO SCALE

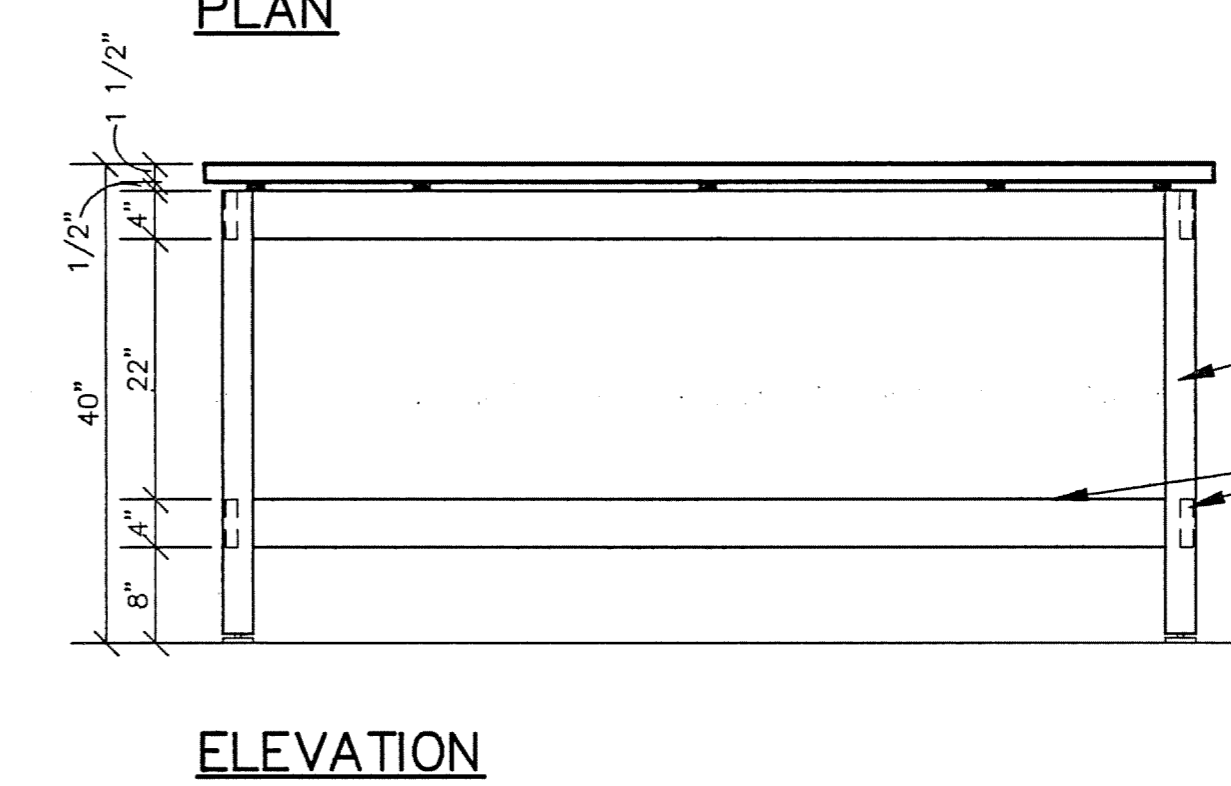
- NOTE:
1. VERIFY THAT 5/8" WILL ALLOW SLIDE TO CLEAR SPECIFIED HINGE W/DOOR @ 90° OPEN
  2. USE STEEL HAT CHANNEL OR POLYPROPYLENE BLOCK SPACER ONLY ON HINGE SIDE OF DOOR.
  3. PROVIDE (3) PULL-OUT SHELVES @ HIGH CABINETS & (2) PULL-OUT SHELVES @ LOW CABINETS.
  4. FOR CASEWORK CONSTRUCTION & DIMENSIONS SEE SPEC. #11601



PLAN



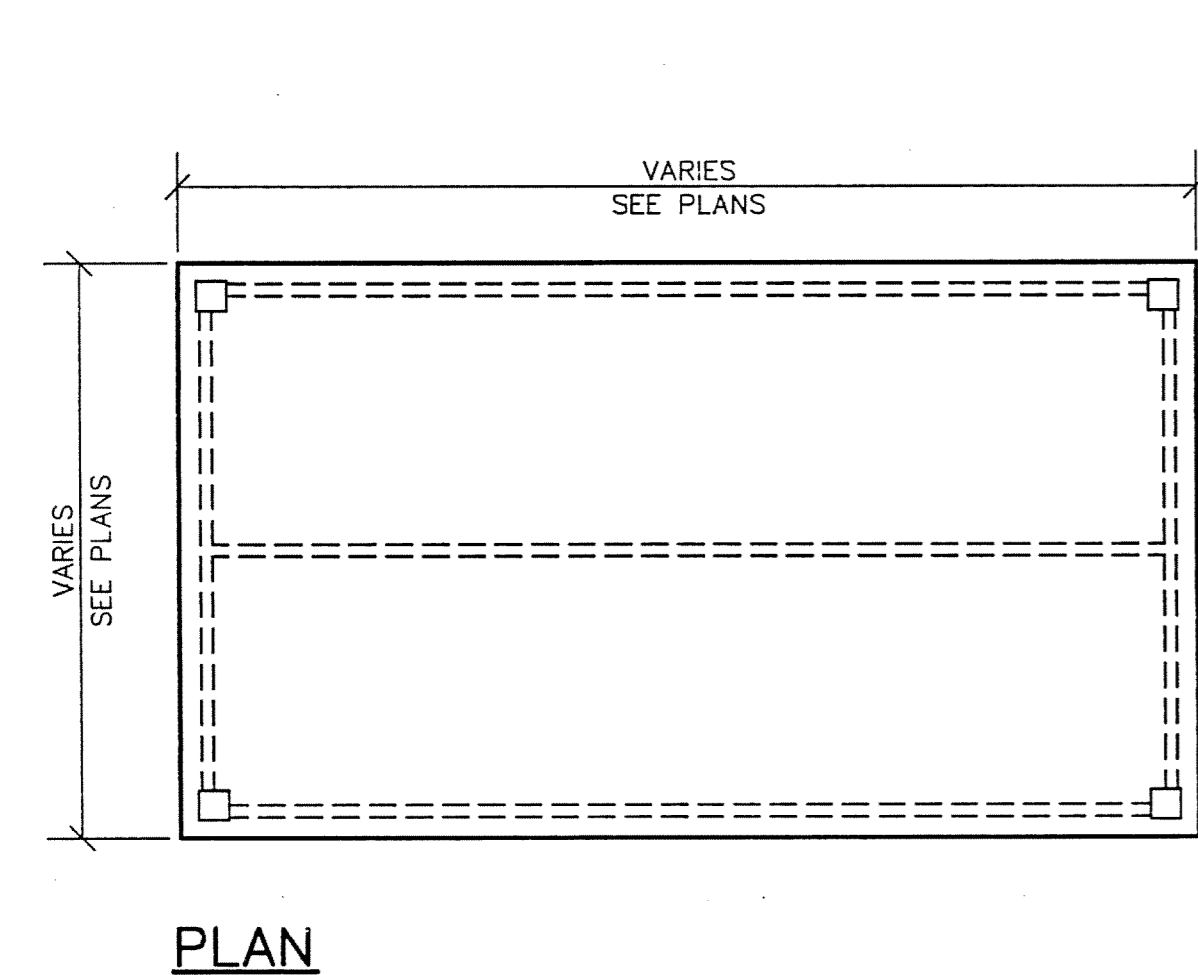
SECTION - A  
SCALE: 1 1/2" = 1'-0"



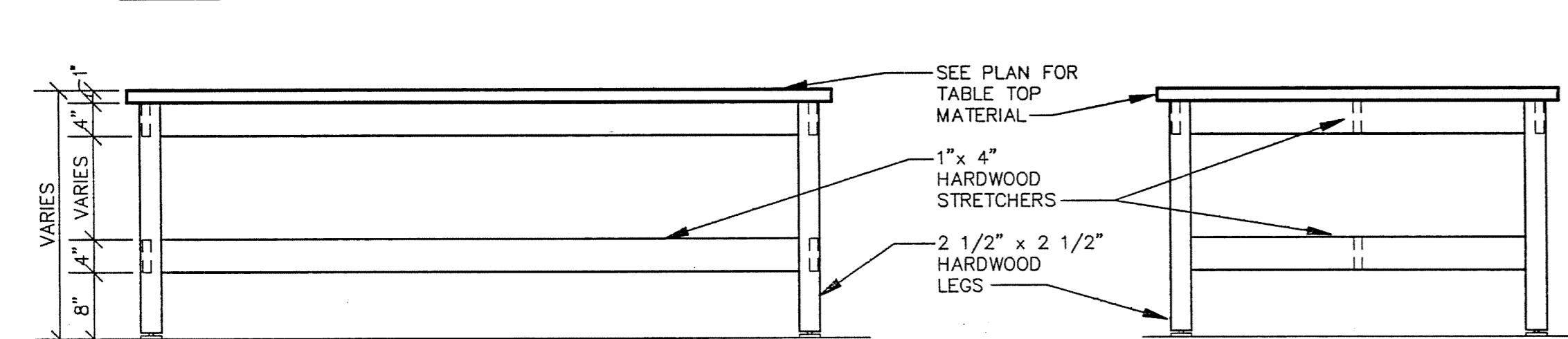
ELEVATION

5 CYLINDER RACK DETAIL  
SCALE: 3/4" = 1'-0"

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PLAN



FRONT ELEVATION

SIDE ELEVATION

9 HEAVY DUTY TABLE  
SCALE: 3/4" = 1'-0"

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6 VACUUM CABINET DETAIL  
SCALE: 3/4" = 1'-0"

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ELEVATION

SECTION

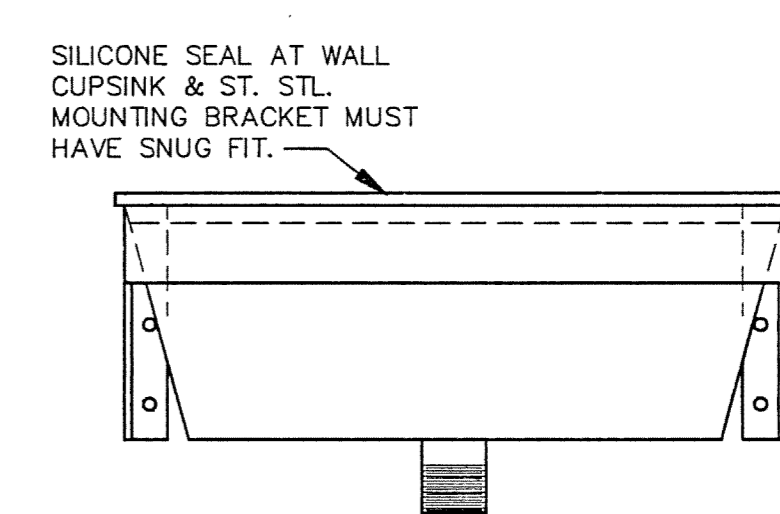
7 PULL-OUT ADJUSTABLE SHELVING  
SCALE: NONE

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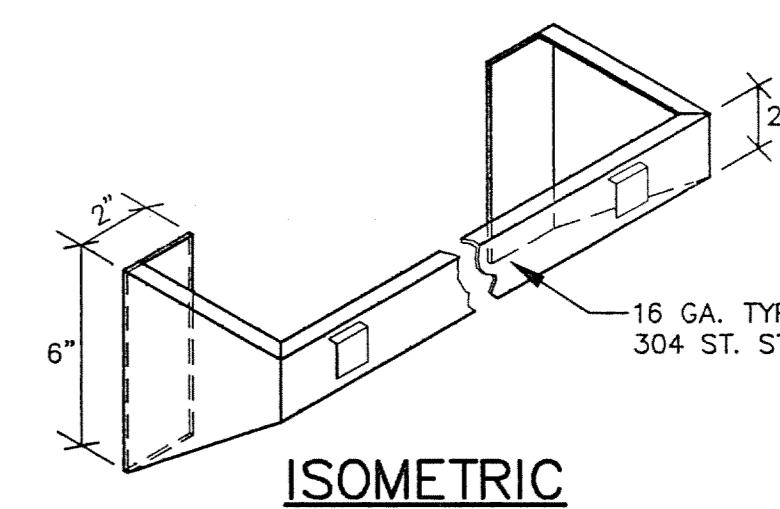


8 BALANCE TABLE - HEAVY DUTY CONSTRUCTION  
SCALE: 3/4" = 1'-0"

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FRONT ELEVATION



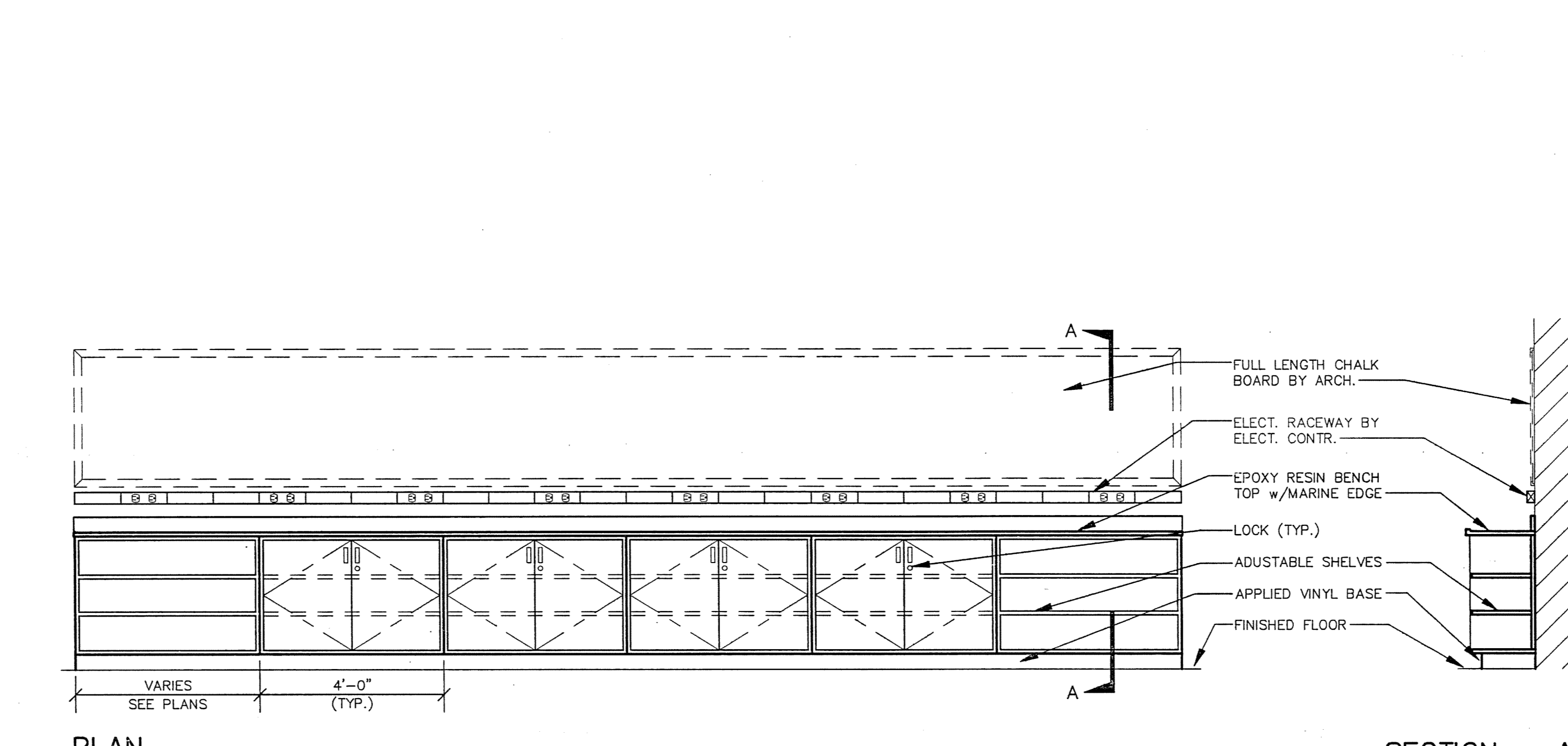
ISOMETRIC

11 ST. STL. MOUNTING BRACKET FOR WALL MOUNTED CUPSINK  
NOT TO SCALE

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10 CHEMICAL DISPENSING COUNTER DETAIL  
SCALE: 1/2" = 1'-0"

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PLAN

SECTION - A

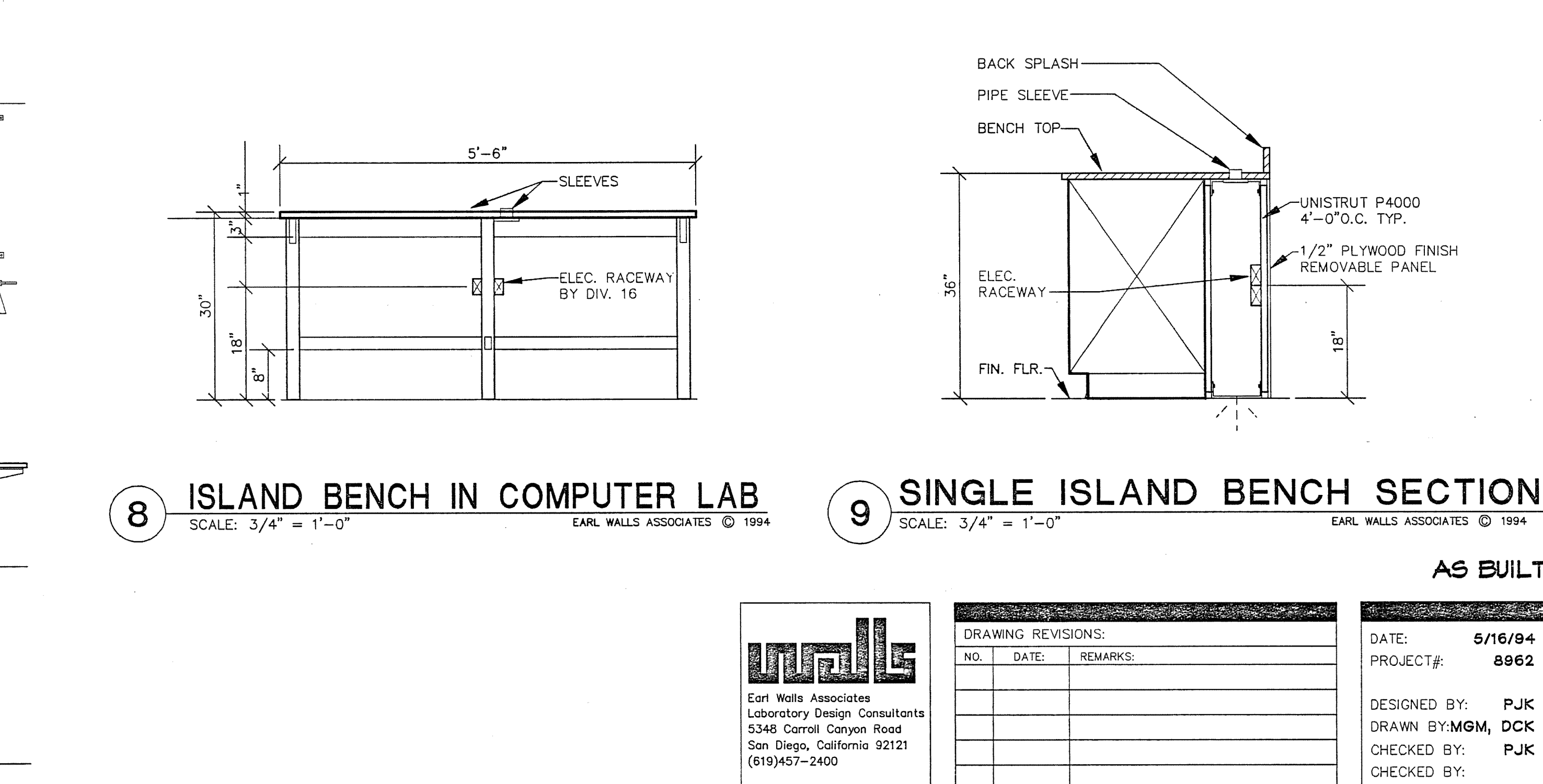
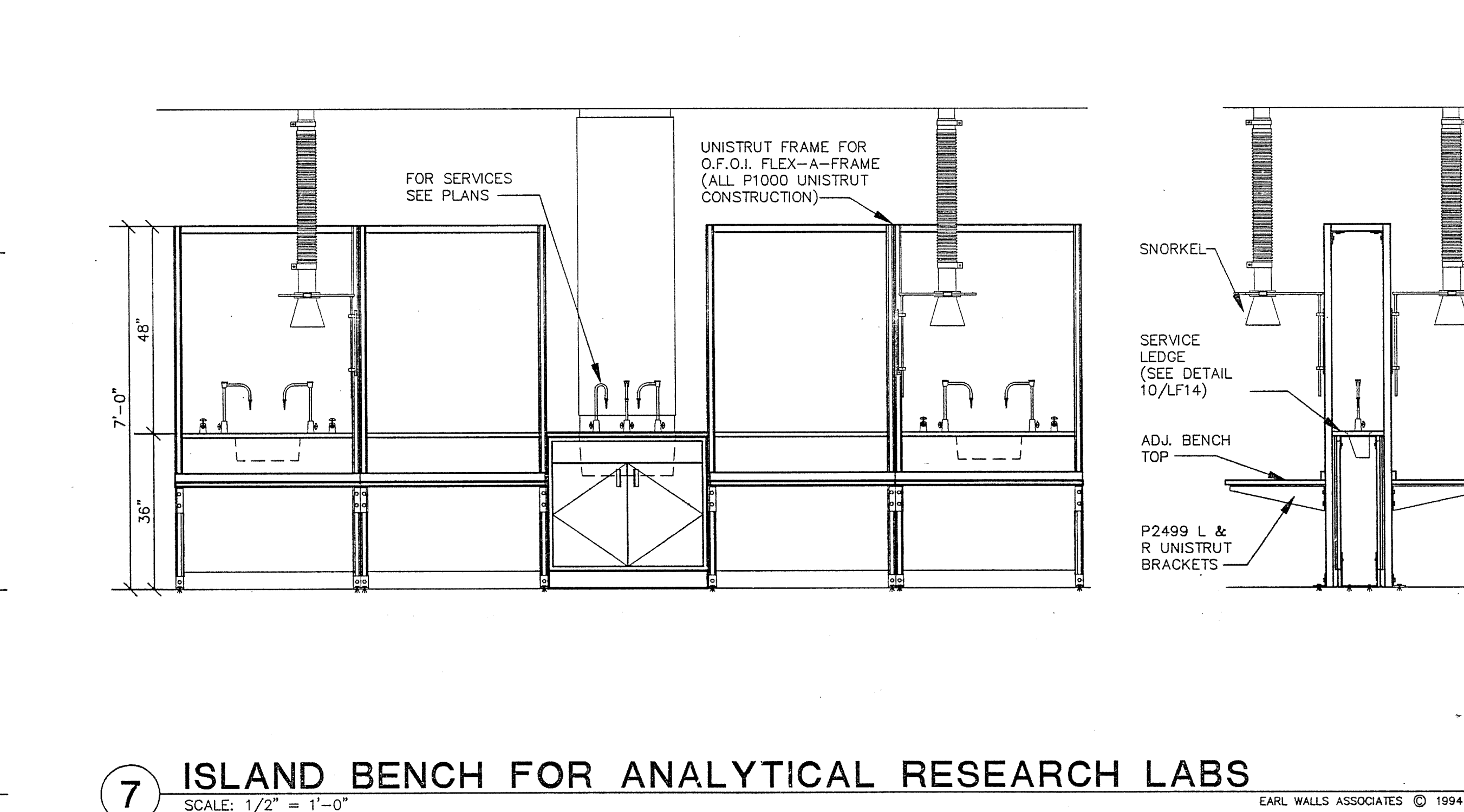
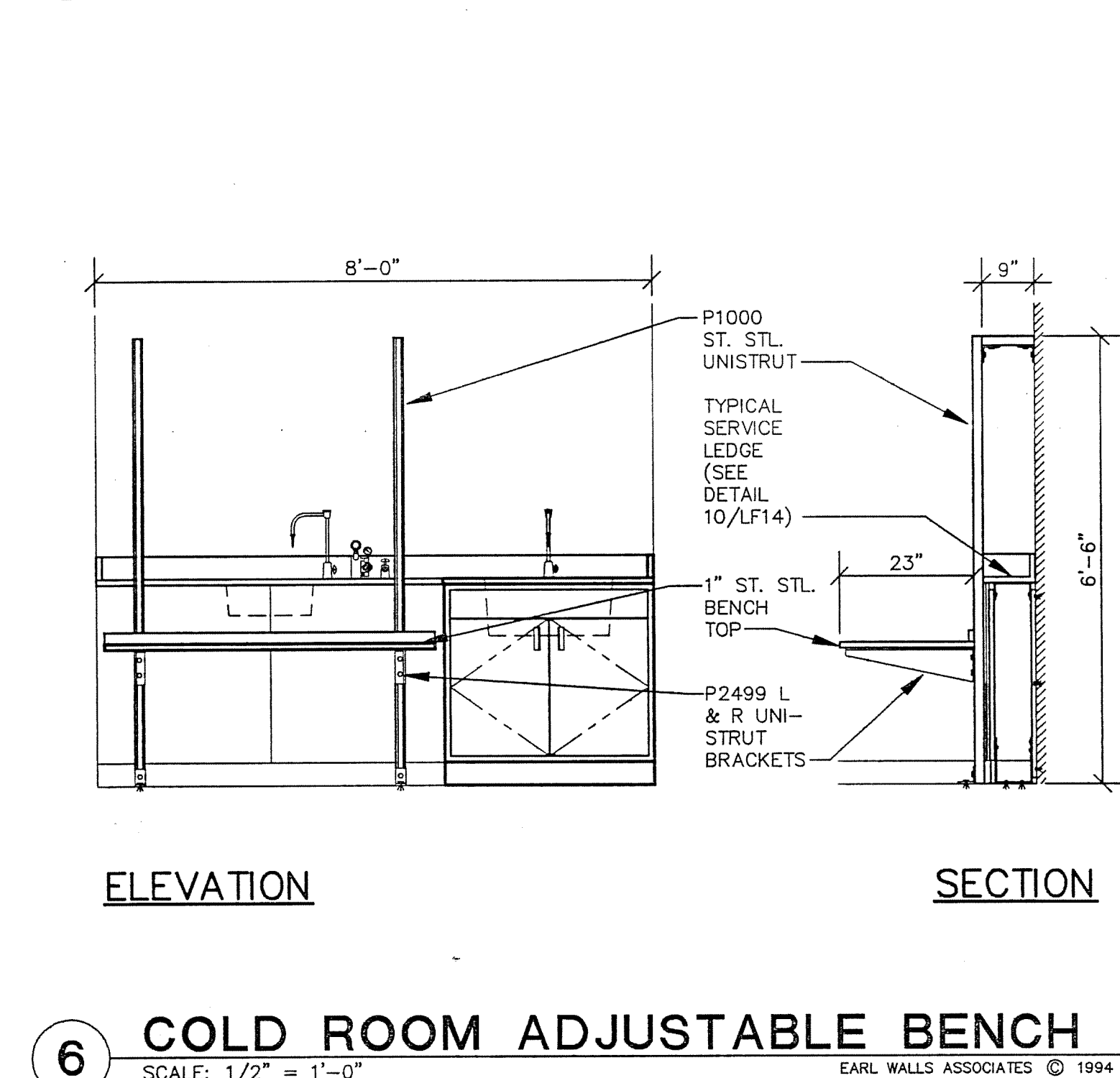
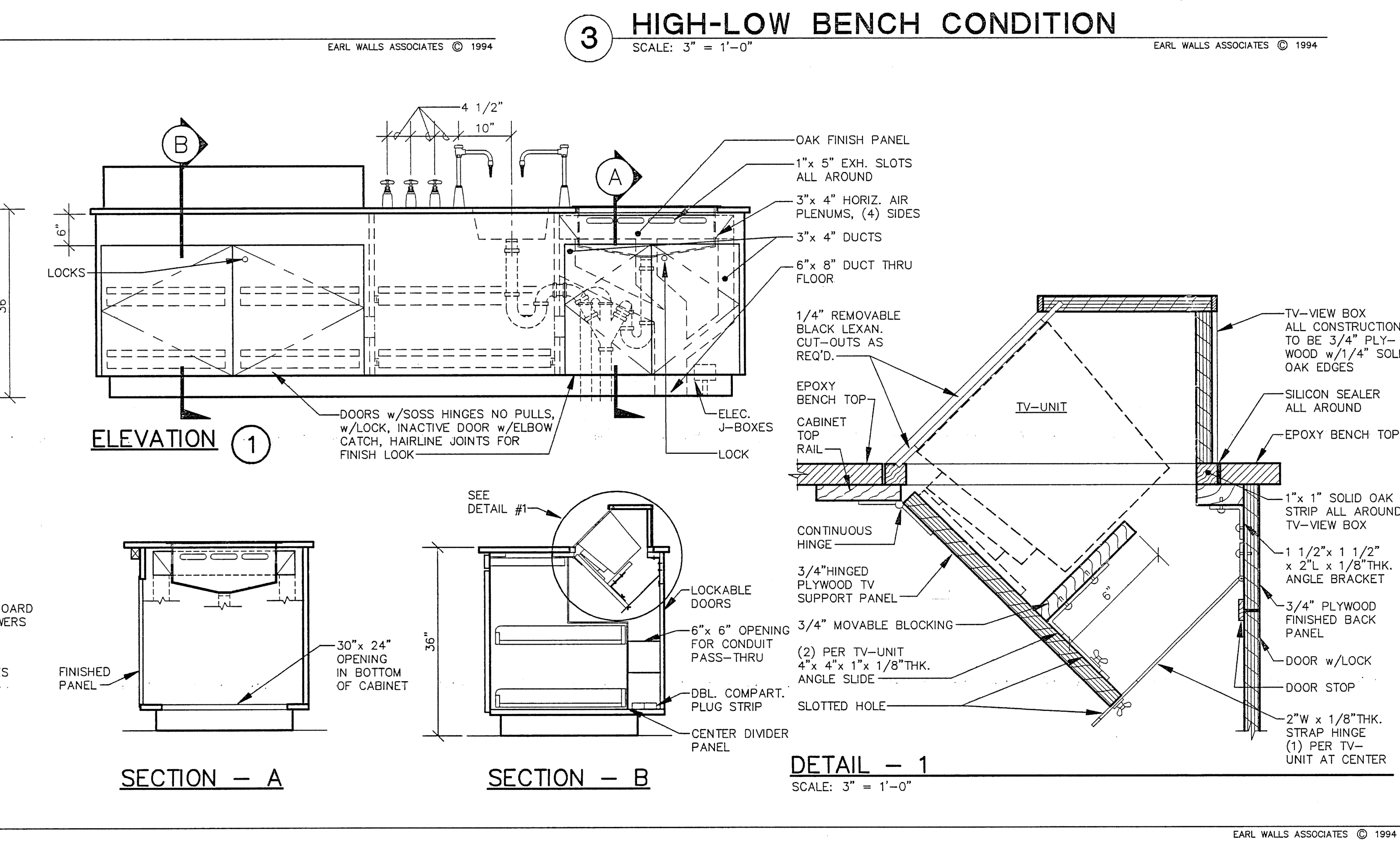
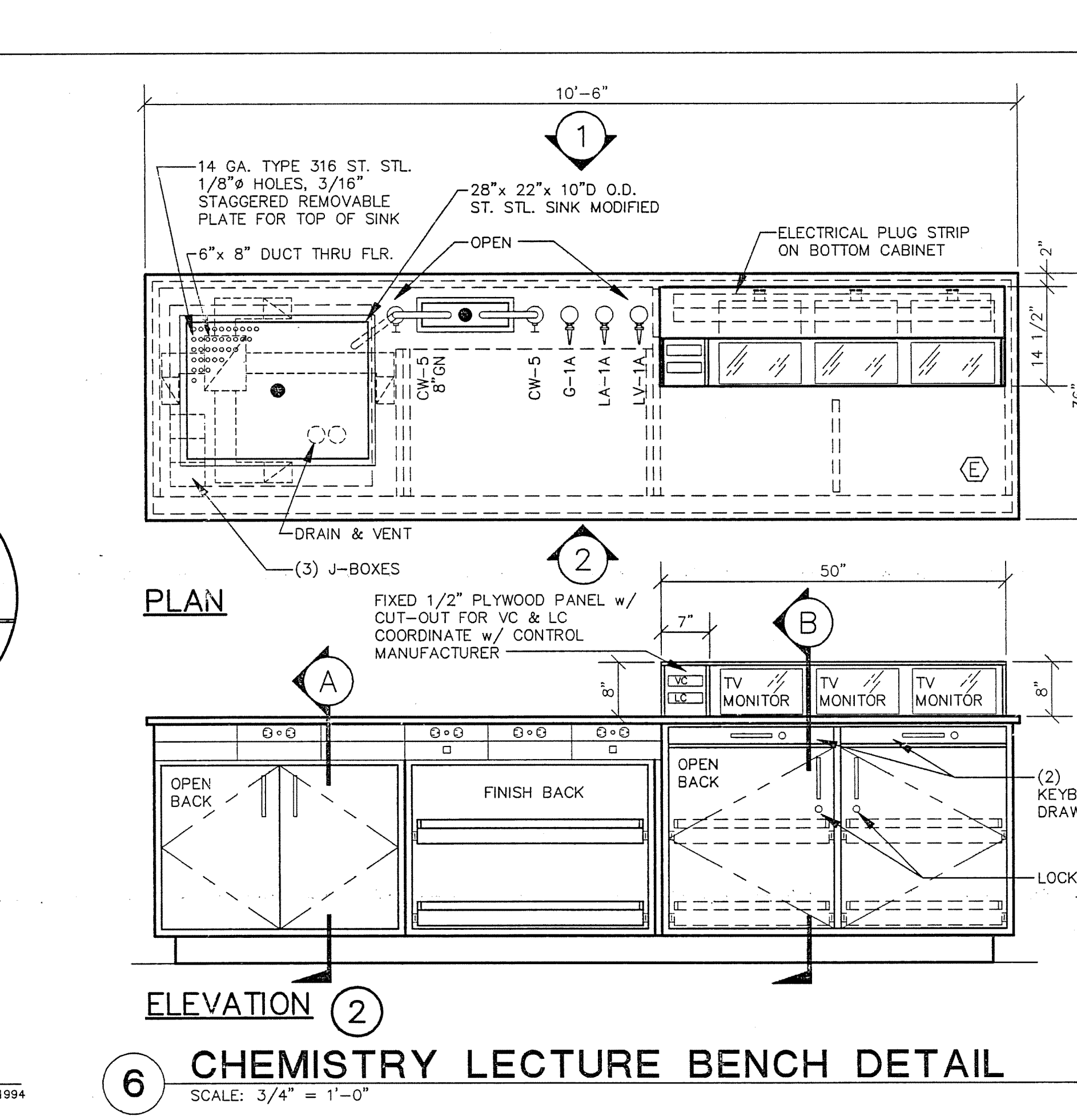
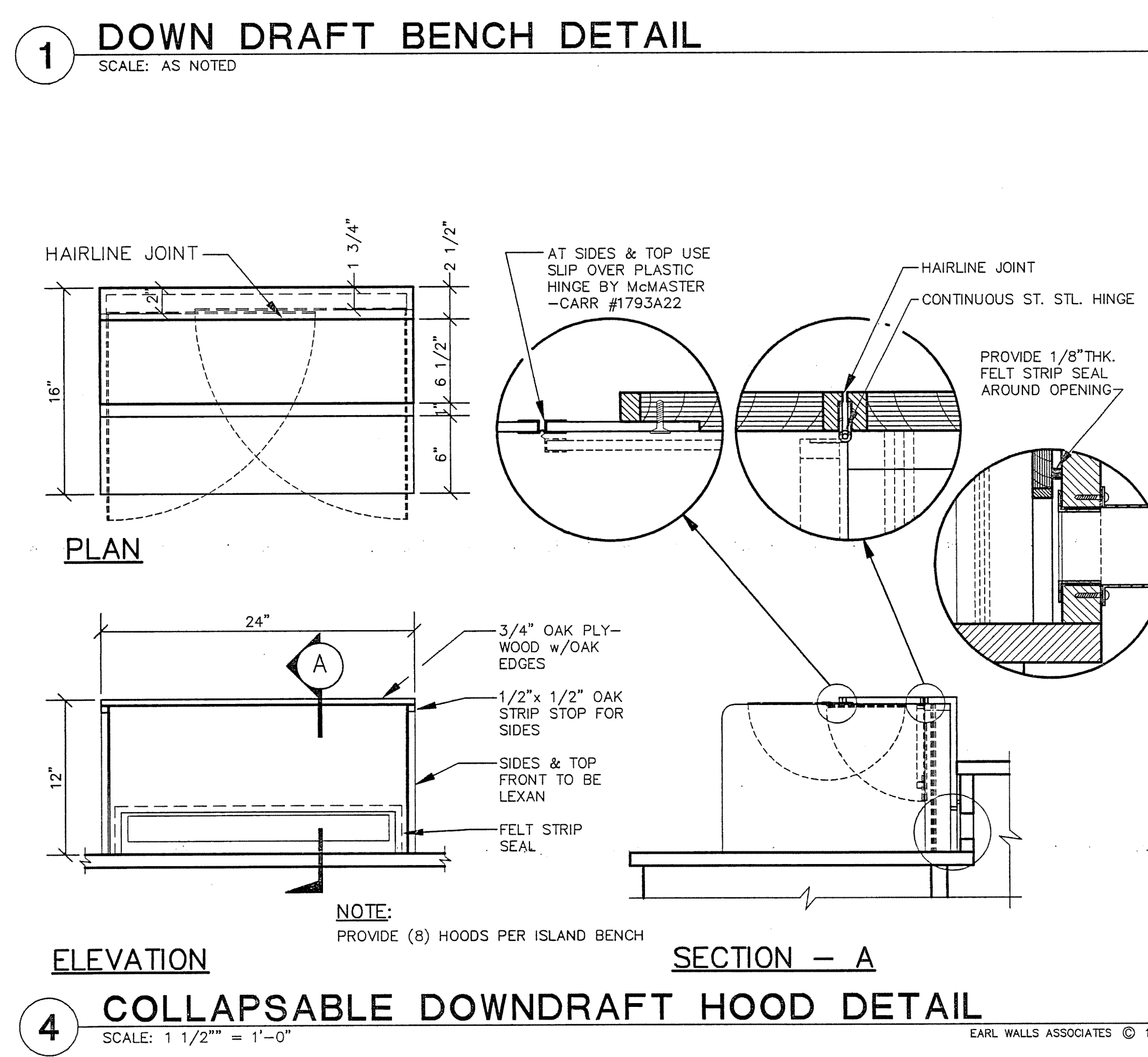
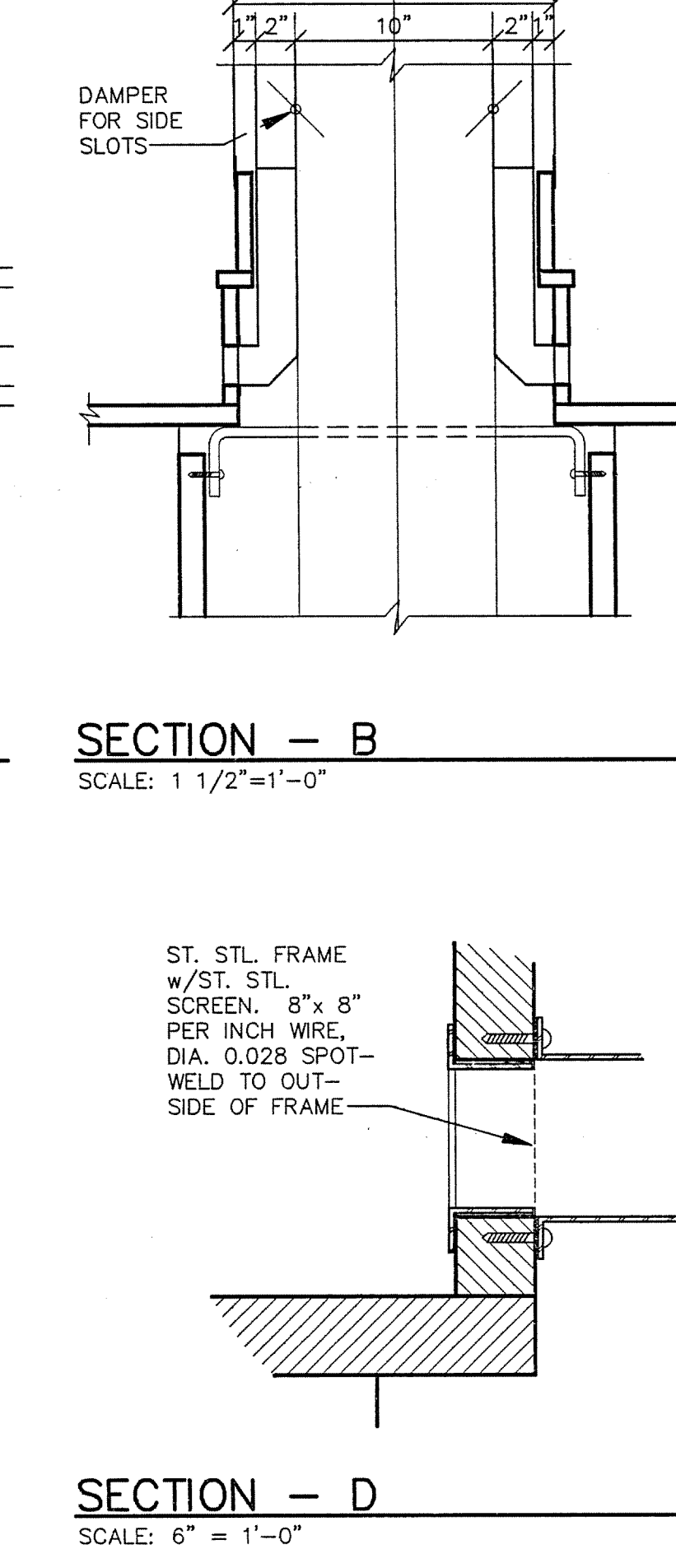
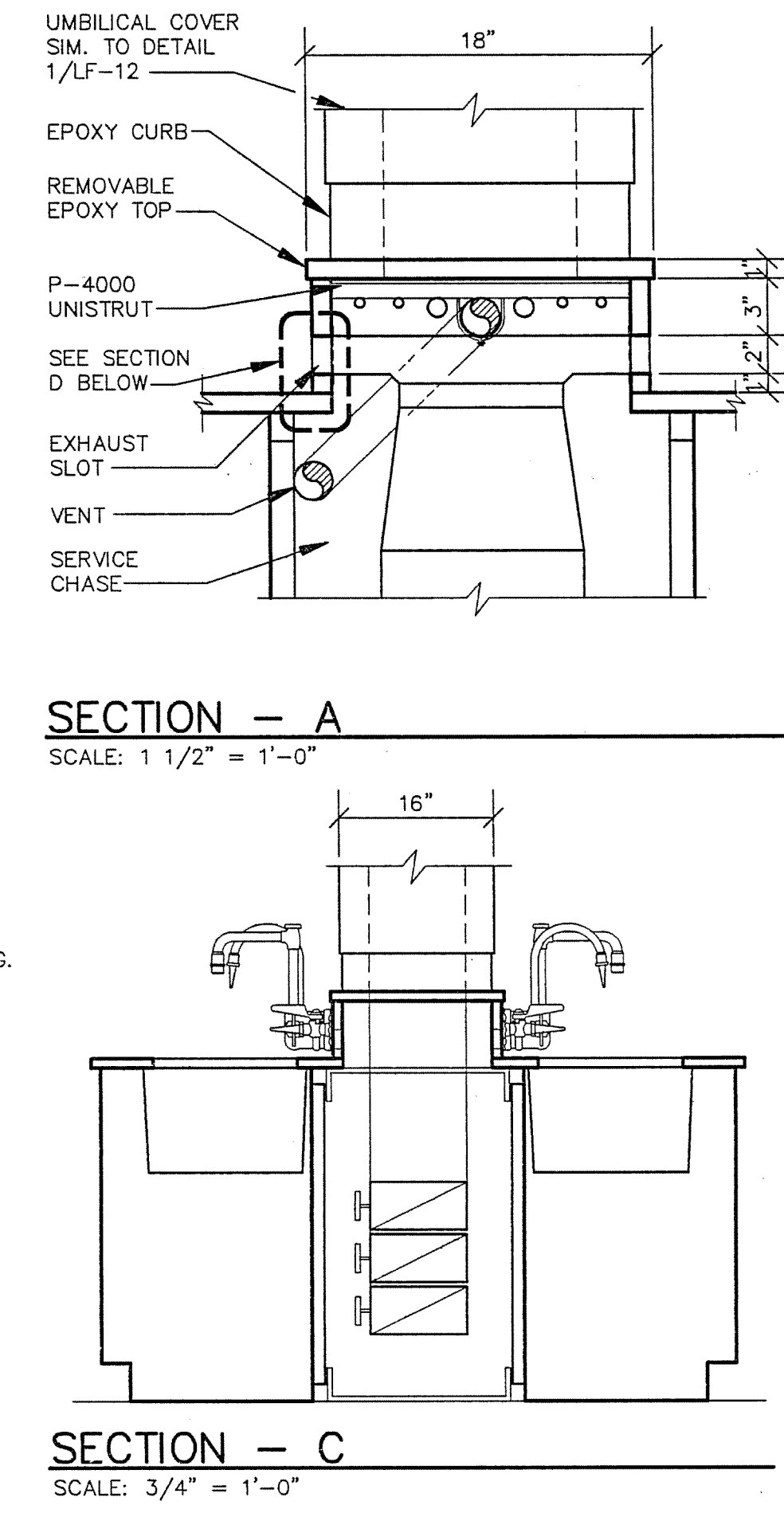
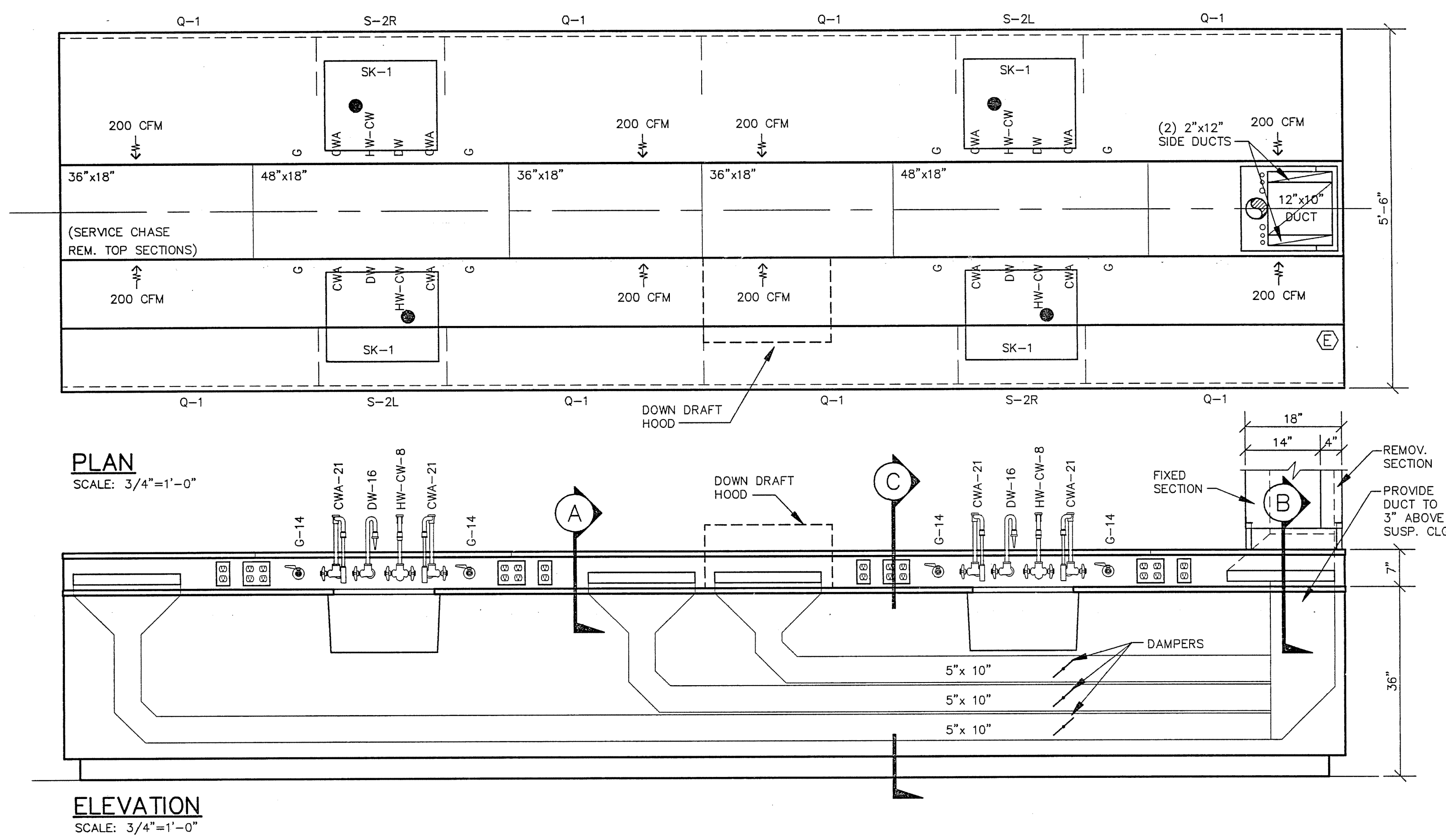


DRAWING REVISIONS:		
NO.	DATE	REMARKS

DATE: 5/16/94  
PROJECT#: 8962  
DESIGNED BY: PJK  
DRAWN BY: MGM, DCK  
CHECKED BY: PJK  
CHECKED BY: PJK

SHEET NO.:

LF13



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**UNIVERSITY OF NORTH CAROLINA AT WILMINGTON**  
CODE 49388 ITEM 301 ID#6084280301A

**SCIENCE BUILDING**

**LAB FURNISHINGS DETAILS**

**LF14**

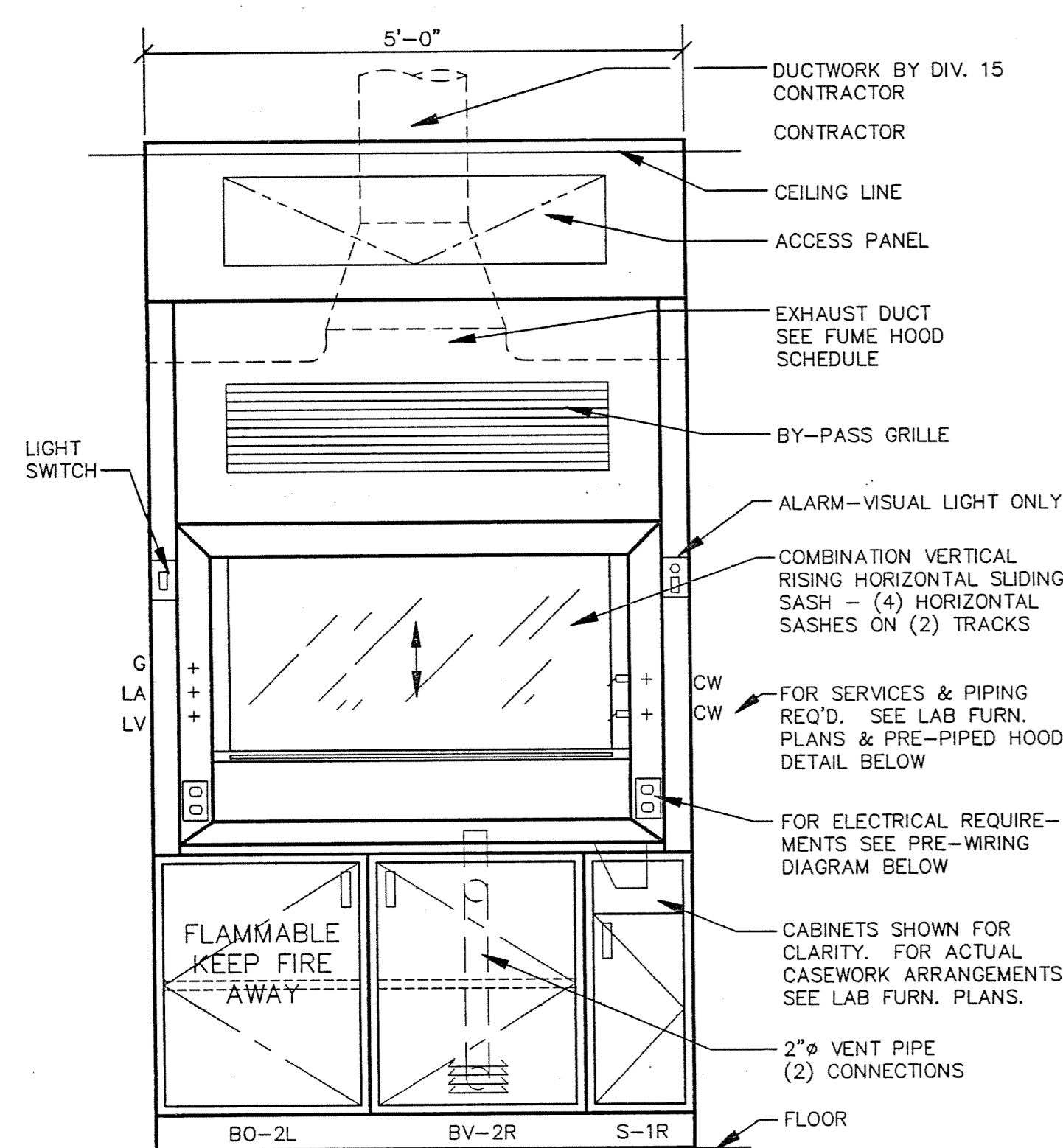
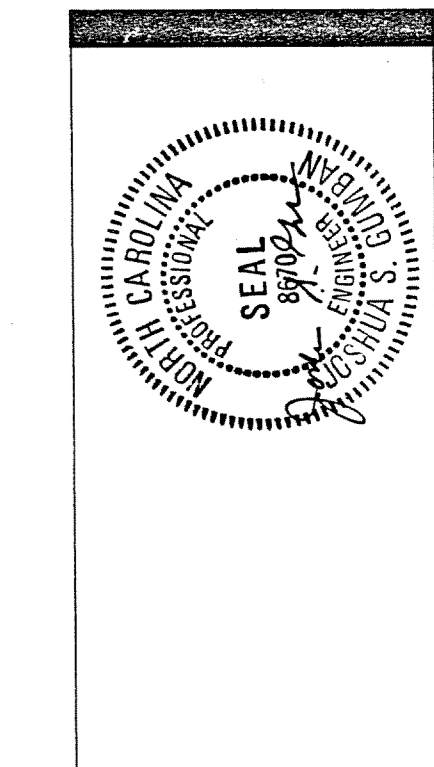
**AS BUILT**

**DRAWING REVISIONS:**

NO.	DATE	REMARKS
1	5/16/94	PROJECT# 8962
2		DESIGNED BY: PJK
3		DRAWN BY: MDM, DCK
4		CHECKED BY: PJK
5		CHECKED BY:

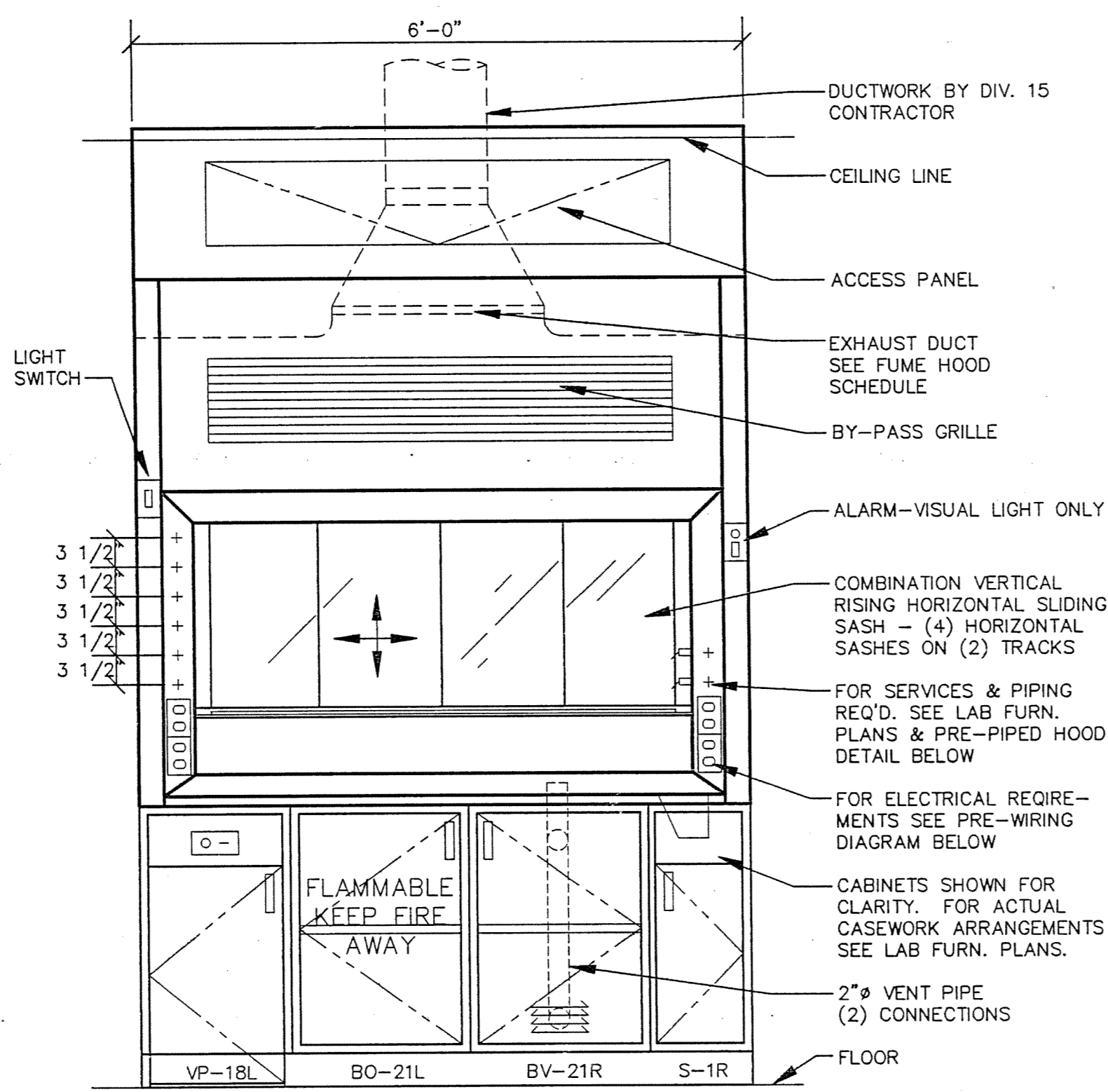
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**PROJECT#:** 8962  
**DESIGNED BY:** PJK  
**DRAWN BY:** MDM, DCK  
**CHECKED BY:** PJK  
**CHECKED BY:**

**SHEET NO.:** LF14



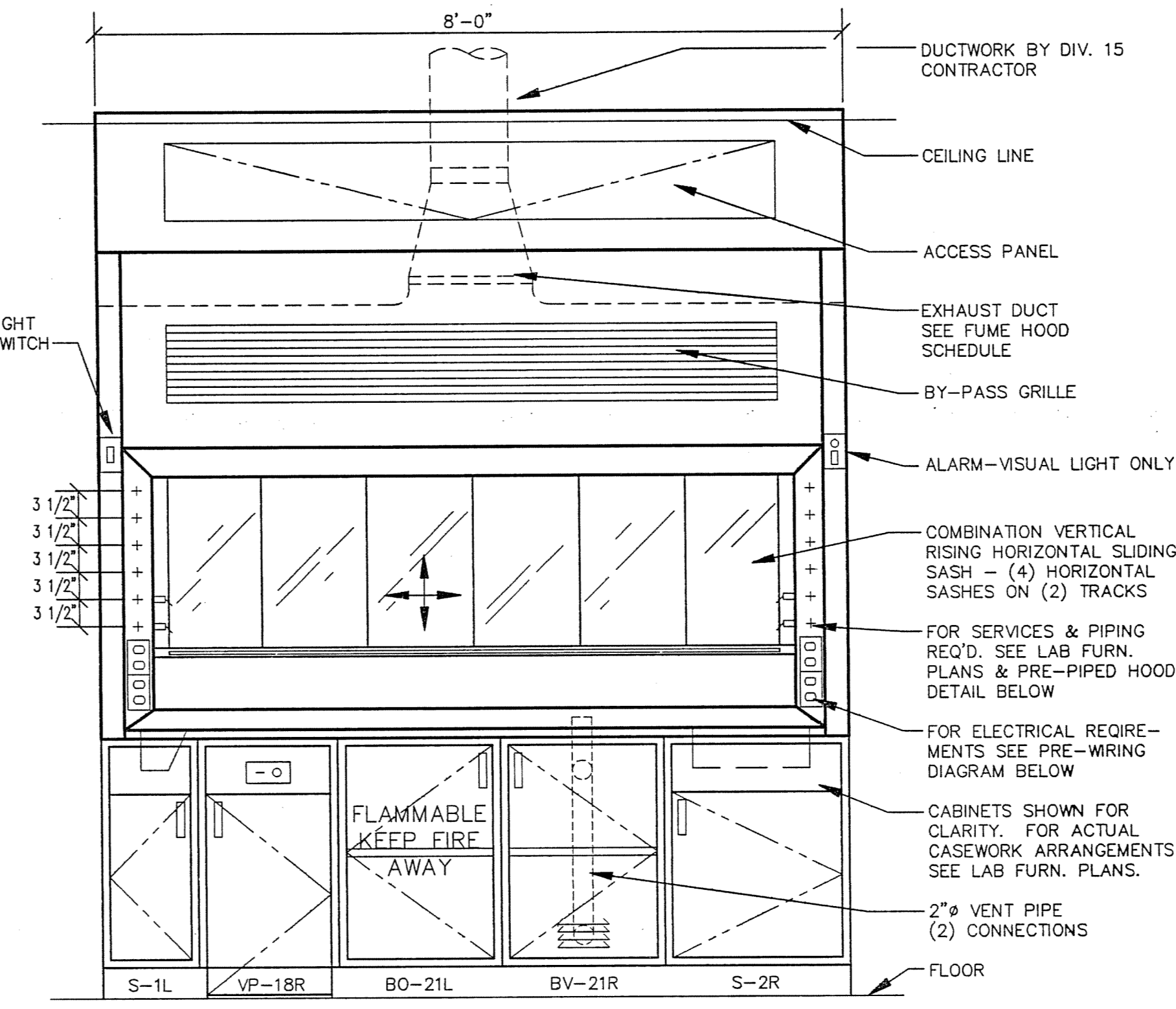
FRONT ELEVATION

1 5'-0" CHEMICAL FUME HOOD  
SCALE: 3/4" = 1'-0"



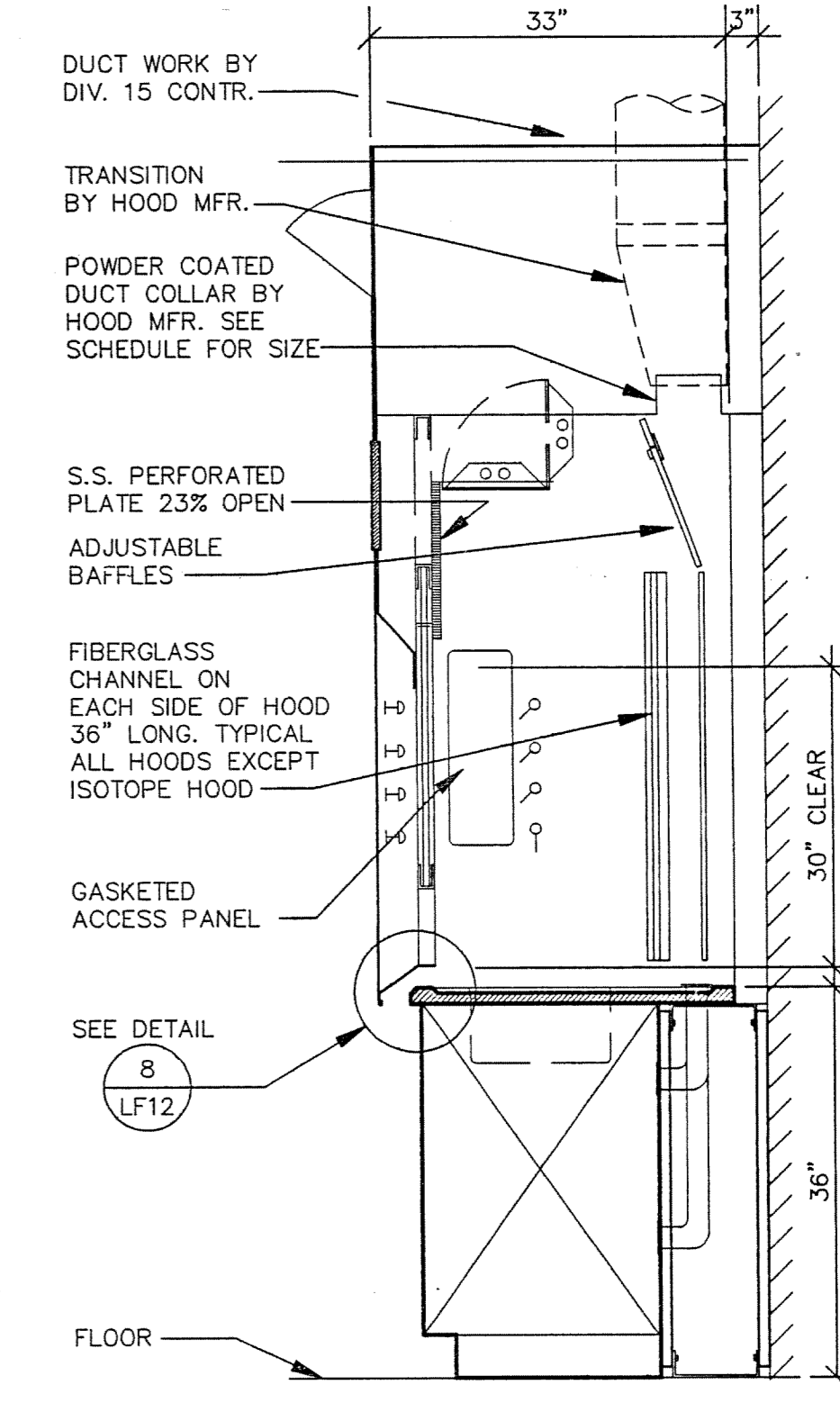
FRONT ELEVATION

2 6'-0" CHEMICAL FUME HOOD  
SCALE: 3/4" = 1'-0"



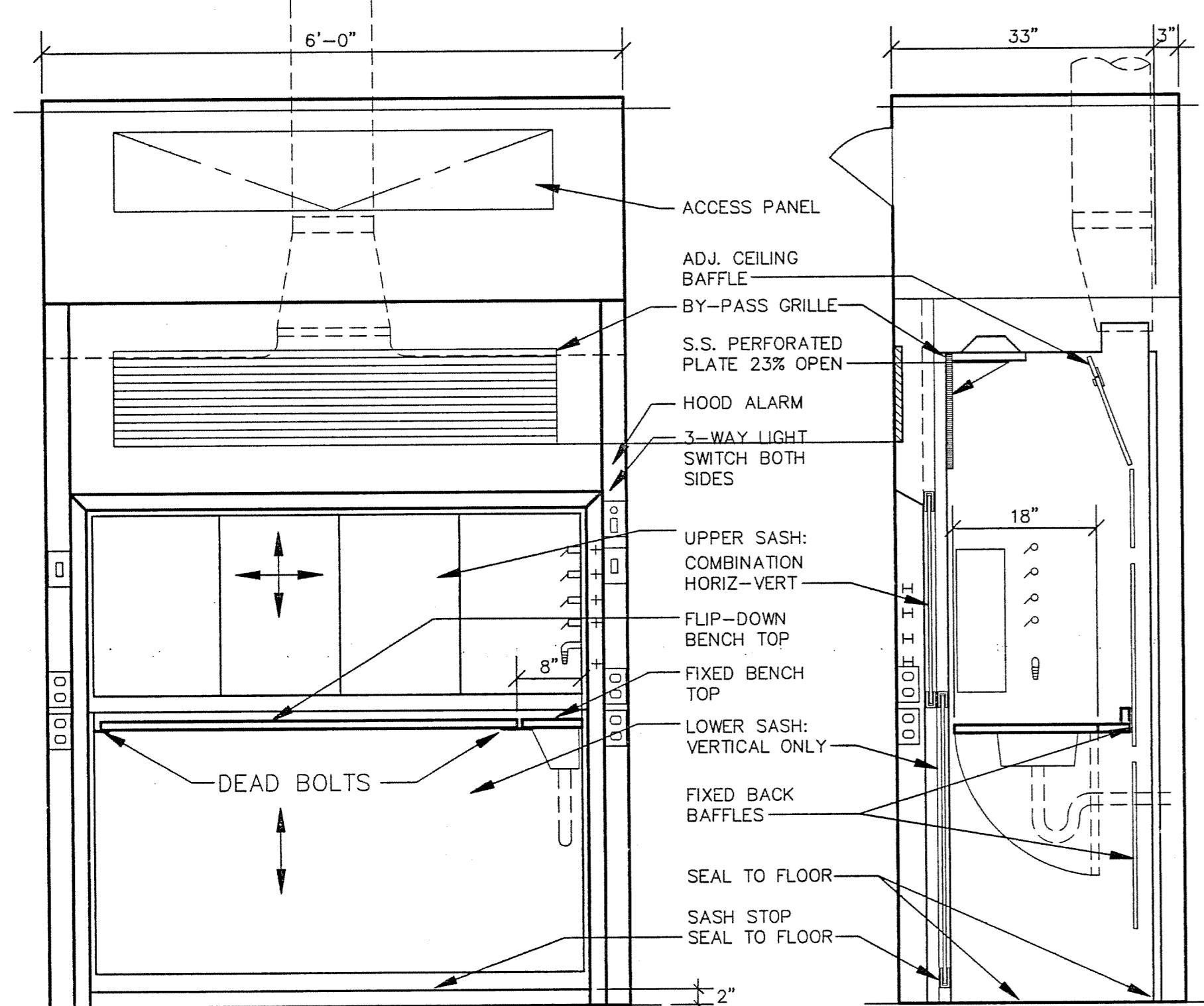
FRONT ELEVATION

3 8'-0" CHEMICAL FUME HOOD  
SCALE: 3/4" = 1'-0"



SECTION

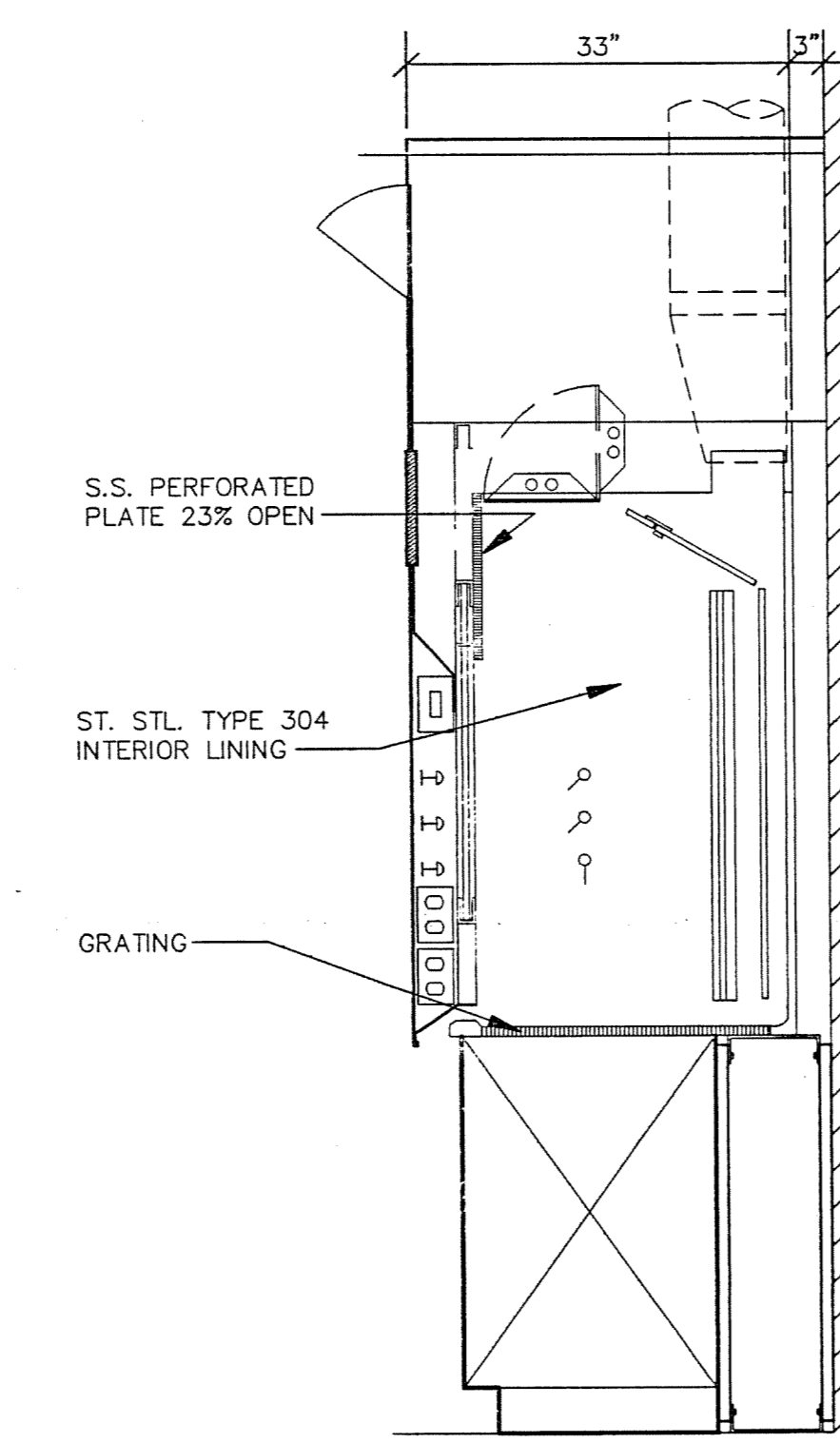
4 TYPICAL FUME HOOD SECTION  
SCALE: 3/4" = 1'-0"



FRONT ELEVATION

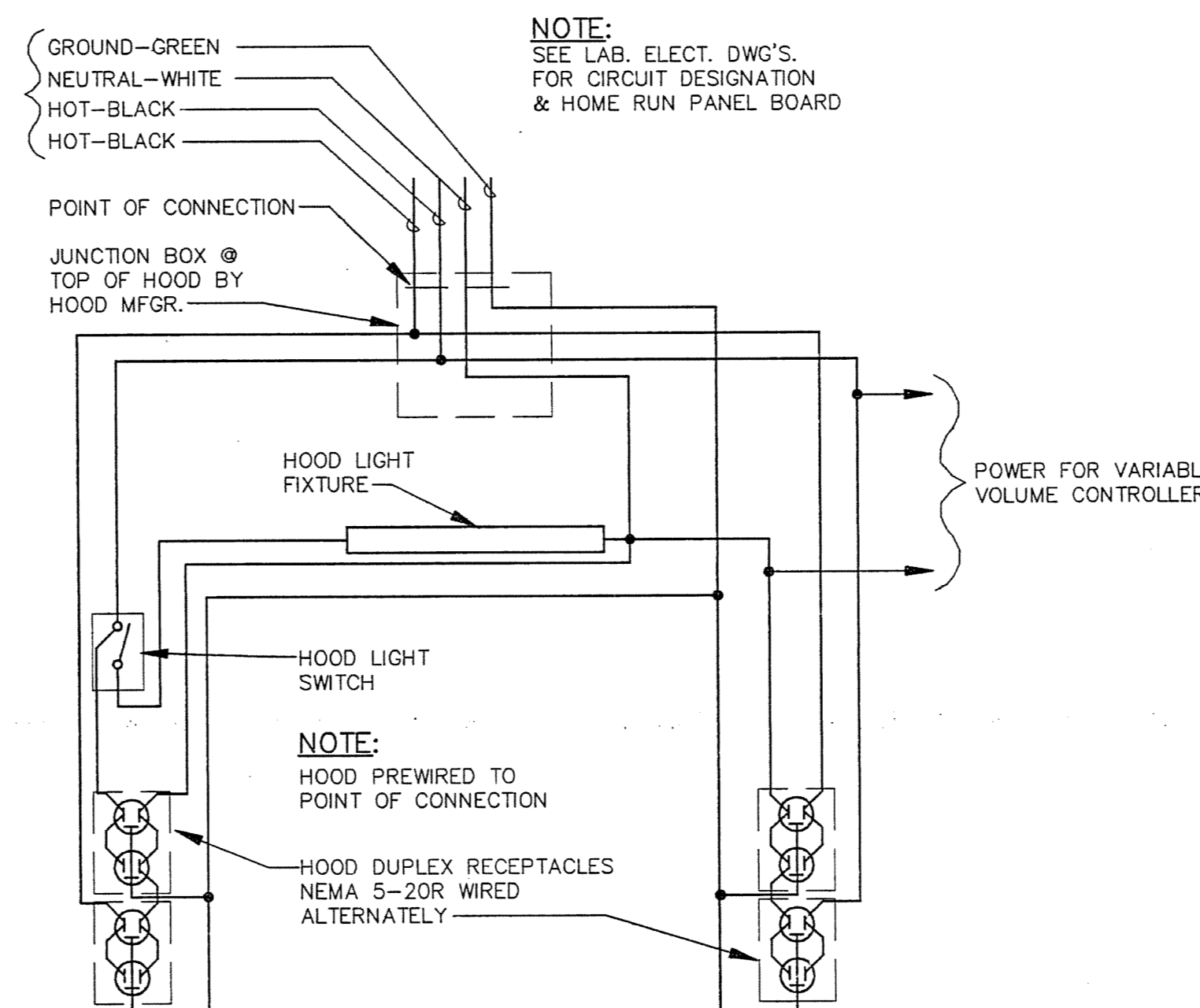
SECTION

5 6'-0" WALK-IN HOOD  
SCALE: 3/4" = 1'-0"

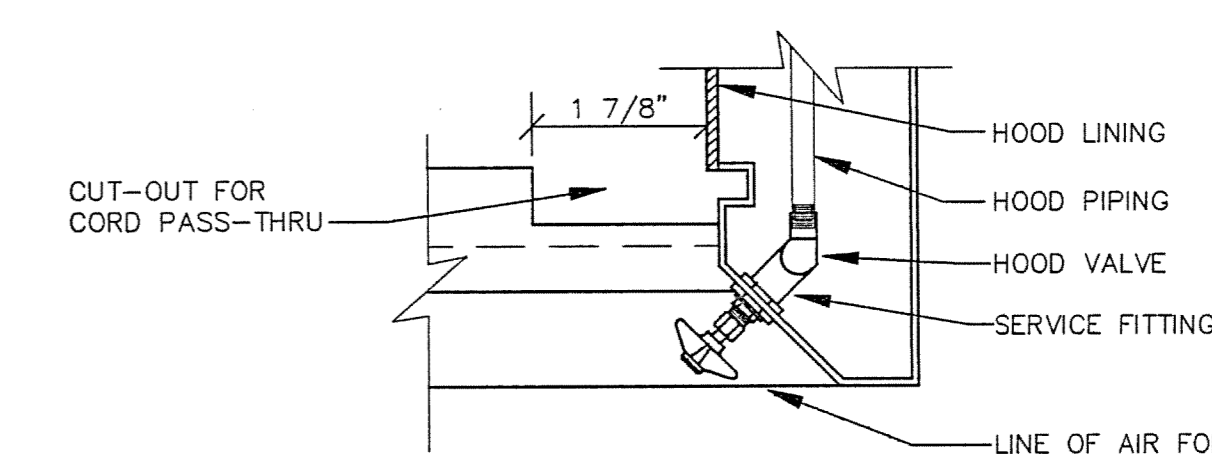


NOTE:  
ELEVATION SIMILAR TO 6'-0" FUME HOOD ELEVATION

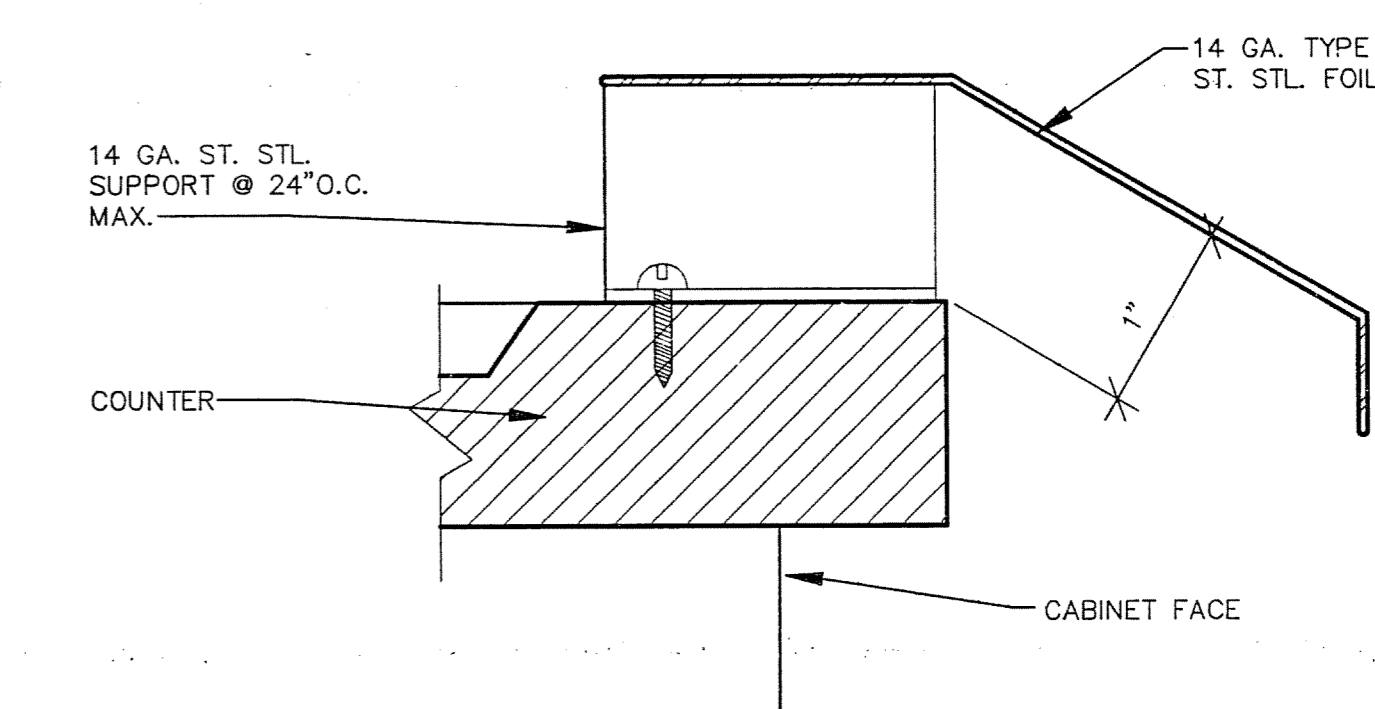
6 ISOTOPE HOOD SECTION  
SCALE: 3/4" = 1'-0"



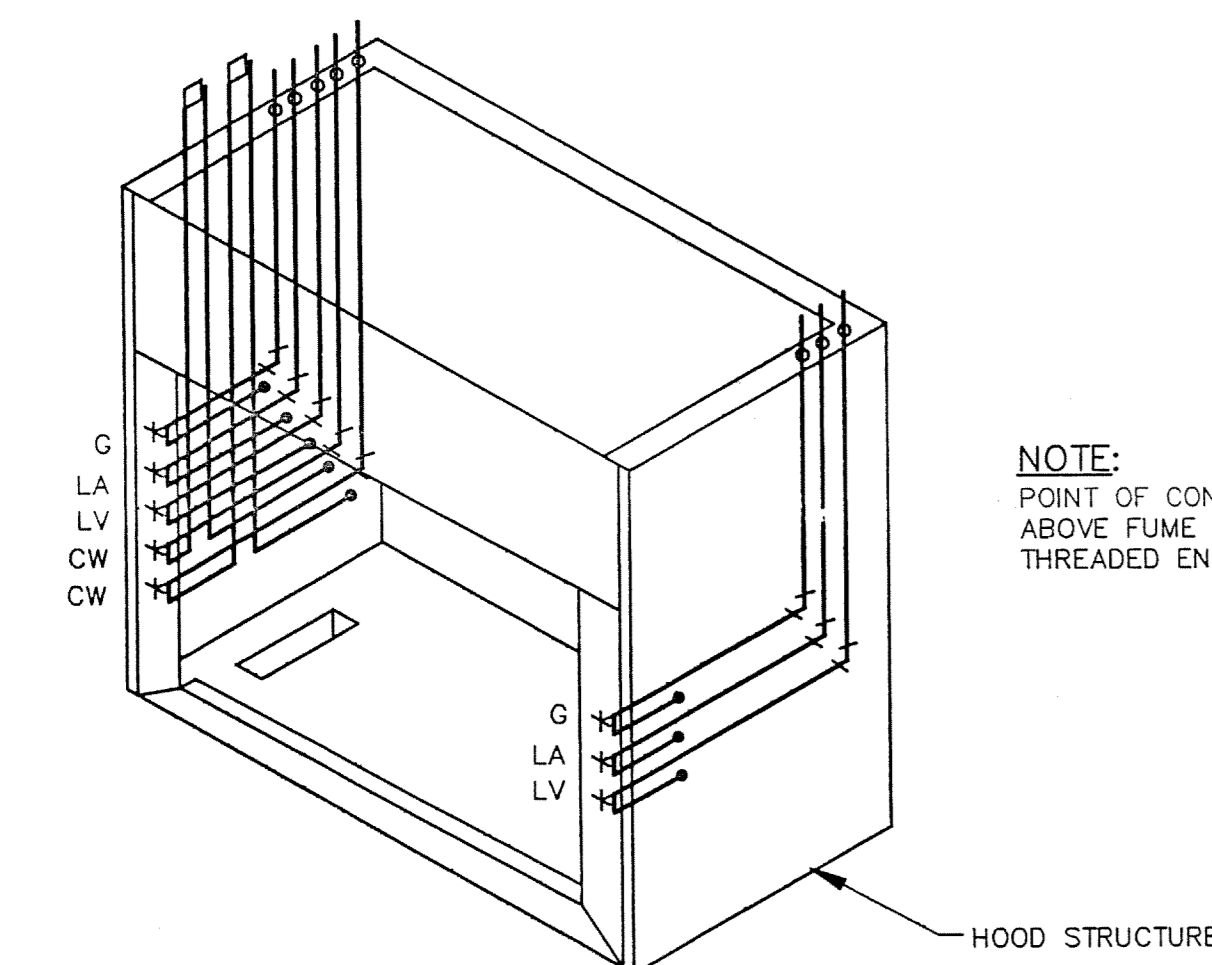
7 TYPICAL HOOD PRE-WIRING DIAGRAM  
SCALE: NONE



8 TYPICAL MOUNTING OF PIPING VALVE  
SCALE: NONE



9 AIR FOIL DETAIL  
SCALE: NONE



ISOMETRIC

10 HOOD PRE-PIPING DIAGRAM  
SCALE: NONE

NOTE:  
VARIABLE VOLUME FUME HOODS SHALL HAVE AS MINIMUM SETTING WITH SASHES CLOSED, 30% OF THE AIR FOR THE FULL OPEN POSITION.

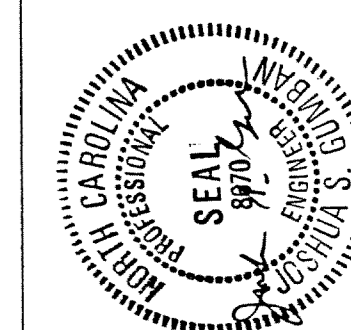
FUME HOOD SCHEDULE									
HOOD REF.	SIZE	FACE VELOCITY FT./MIN.	CFM	COLLAR DIA. *	QUANTITY		HEIGHT	SASH HORIZ. TRACKS	CONFIGURATION
					VERT.	HORIZ.			
V-5	5'-0"	100	1000	6"x20" (12")	1	-	30"	-	
V-5H	5'-0"	100	1000	6"x20" (12")	1	-	30"	-	+33" HANDICAPPED HOOD
HV-5	5'-0"	100	800	6"x14" (10")	1	3	30"	3	
V-6	6'-0"	100	1250	6"x25" (12")	1	-	30"	-	
V-6H	6'-0"	100	1250	6"x25" (12")	1	-	30"	-	+33" HANDICAPPED HOOD
HV-6	6'-0"	100	650	6"x14" (10")	1	4	30"	2	
IHV-6	6'-0"	100	750	6"x14" (10")	1	4	30"	2	ISOTOPE HOOD
WHV-6	6'-0"	100	780	6"x14" (10")	2	4	66"	2	WALK-IN HOOD
HV-8	8'-0"	100	800	6"x16" (10")	1	5	30"	2	

**Earl Walls Associates**  
Laboratory Design Consultants  
5348 Carroll Canyon Road  
San Diego, California 92121  
(619)457-2400

DRAWING REVISIONS:		
NO.	DATE	REMARKS

DATE: 5/16/94  
PROJECT#: 8962  
DESIGNED BY: PJK  
DRAWN BY: MDM, DCK  
CHECKED BY: PJK  
CHECKED BY: PJK

SHEET NO.:  
**LF15**



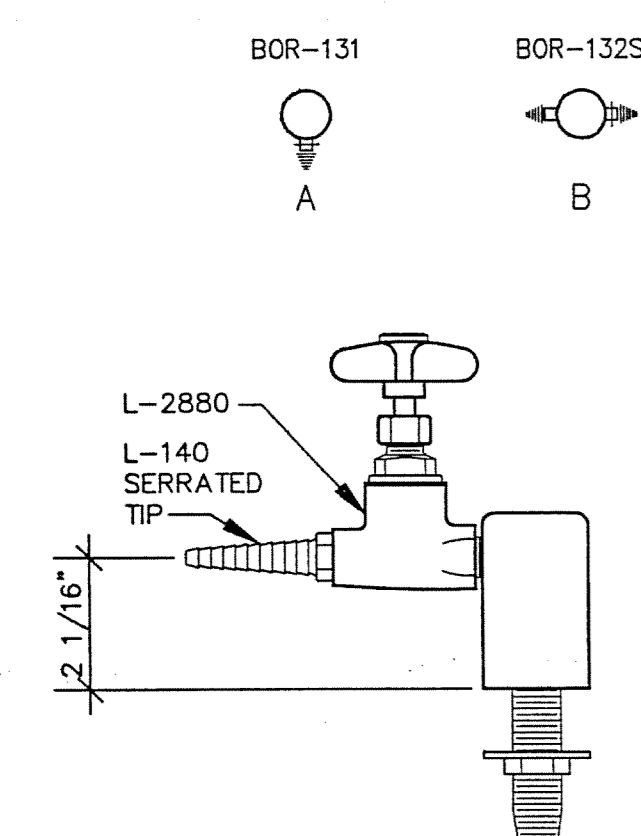
SCIENCE BUILDING  
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON  
CODE 49368 ITEM 301 ID#081220801A

SHEET TITLE:

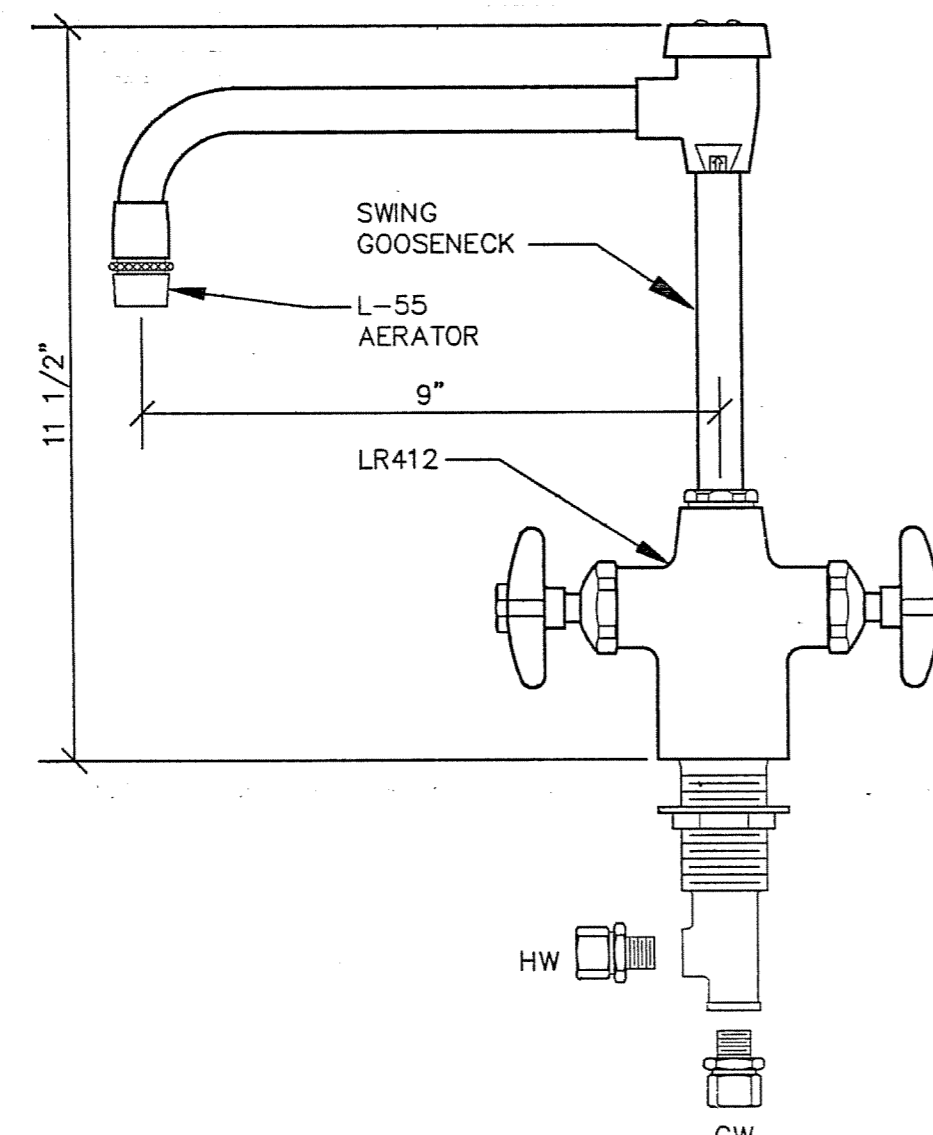
LAB FURNISHINGS  
SERVICE FITTINGS

SHEET NO.:

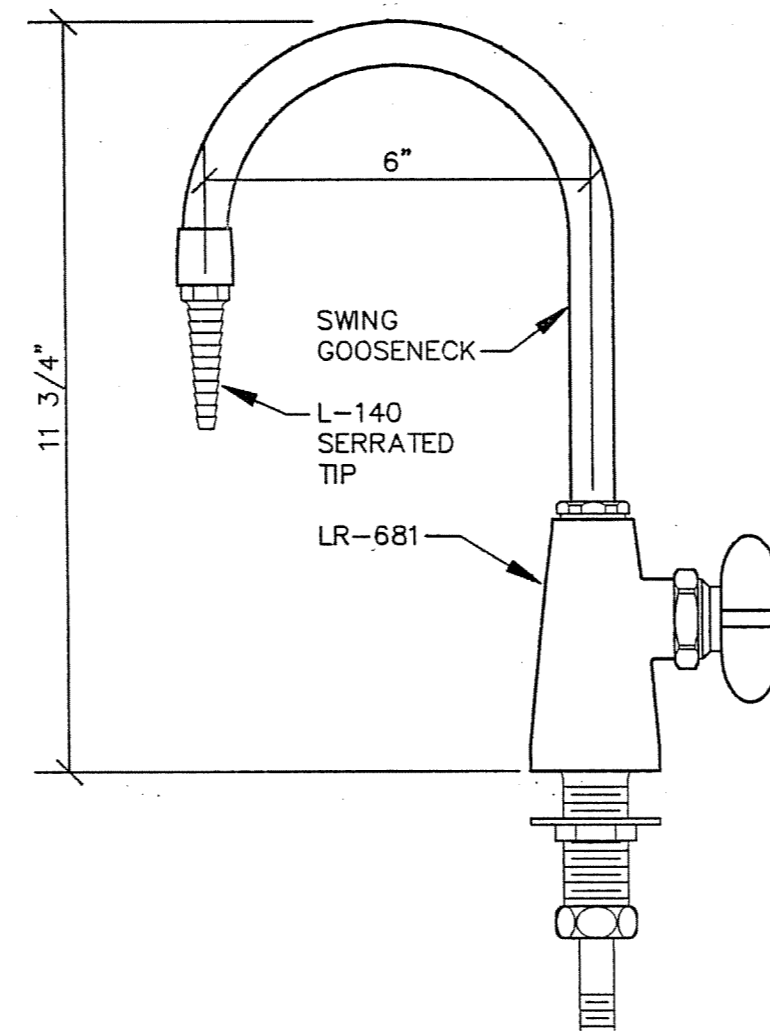
LF16



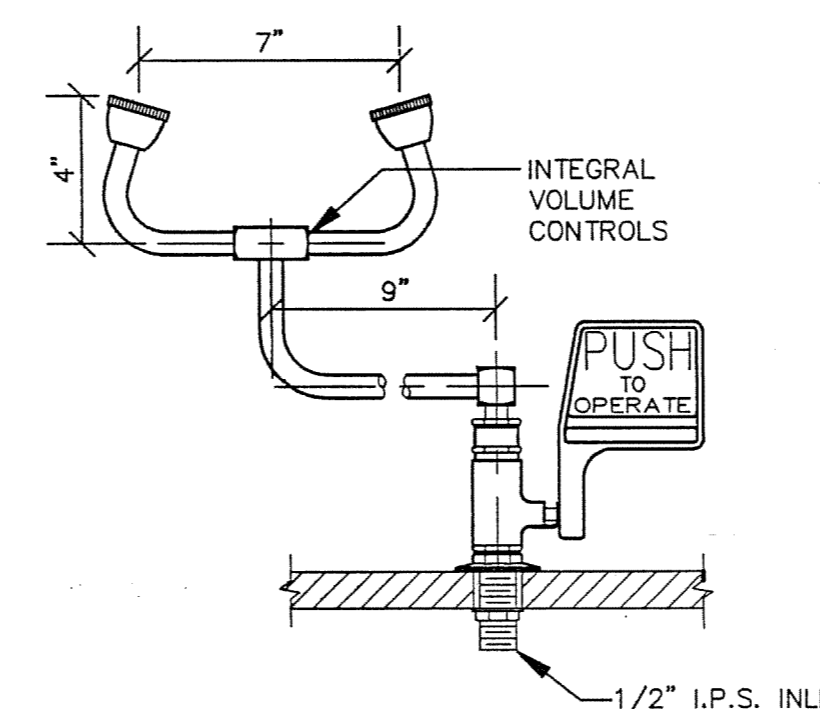
**DECK MOUNTED NEEDLE VALVE FOR GAS, LAB AIR, LAB VACUUM**  
1A = No. L-2880-BOR131-140  
1B = No. L-2880-BOR132S-140  
**SERVICE FITTING #1** G-1A G-1B  
LA-1A LA-1B  
LV-1A LV-1B



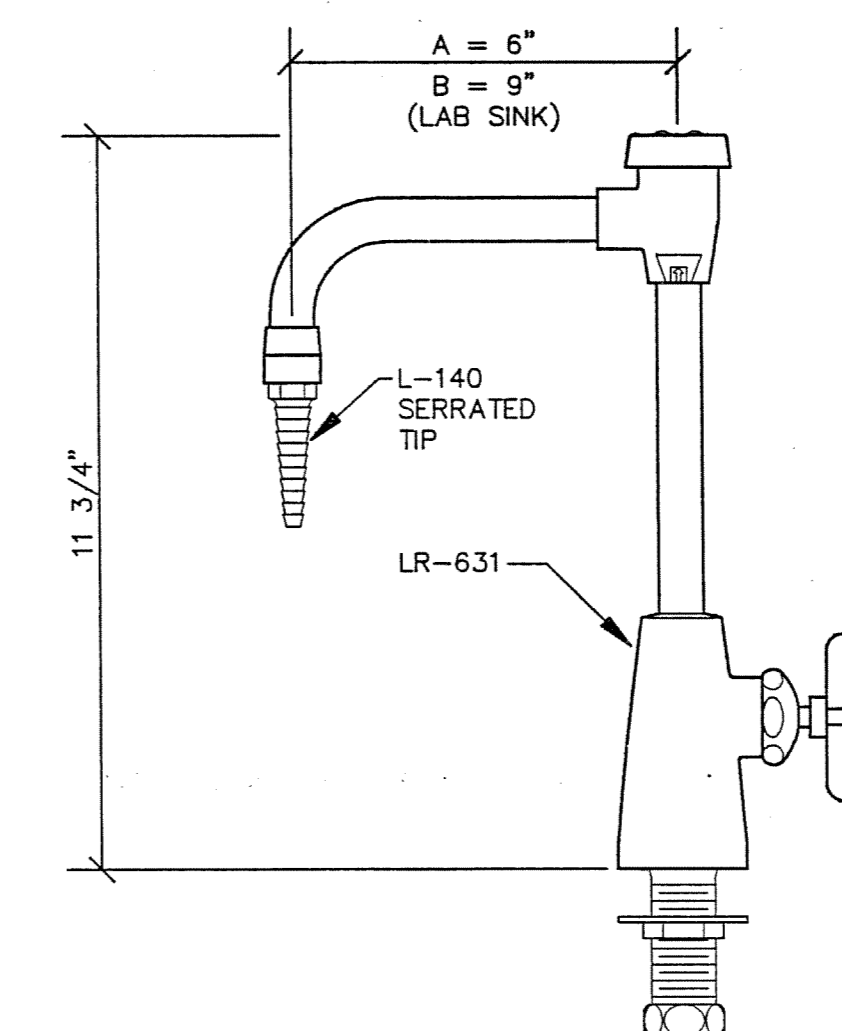
**DECK MOUNTED MIXING FAUCET**  
No. LR-412-VB  
**SERVICE FITTING #2** HW-CW-2



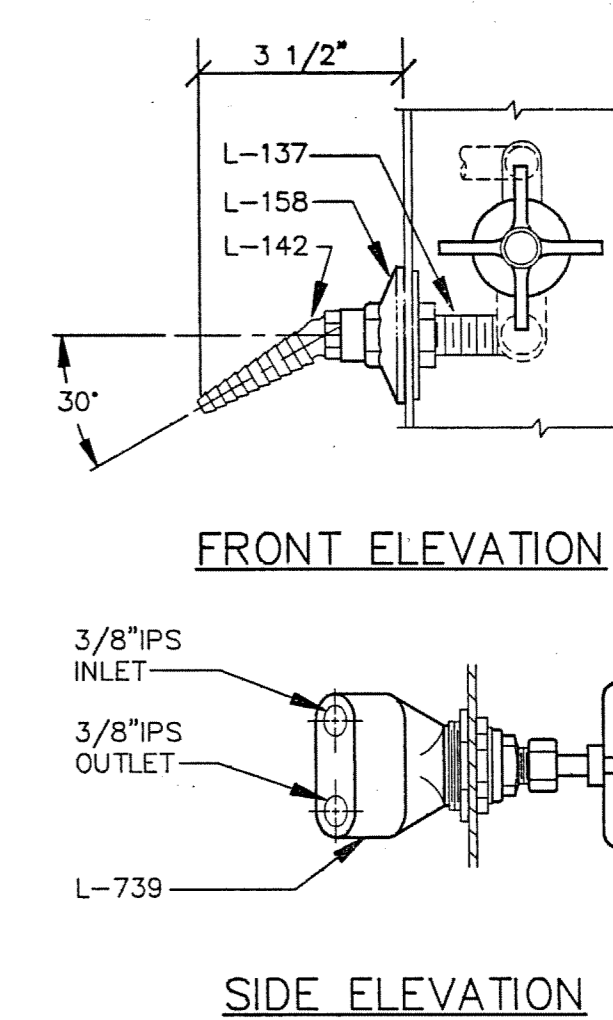
**DECK MOUNTED HIGH PURITY WATER FITTING**  
No. LR681-140  
HOT TIN LINED w/NON-SELF CLOSING VALVE  
**SERVICE FITTING #3** DW-3



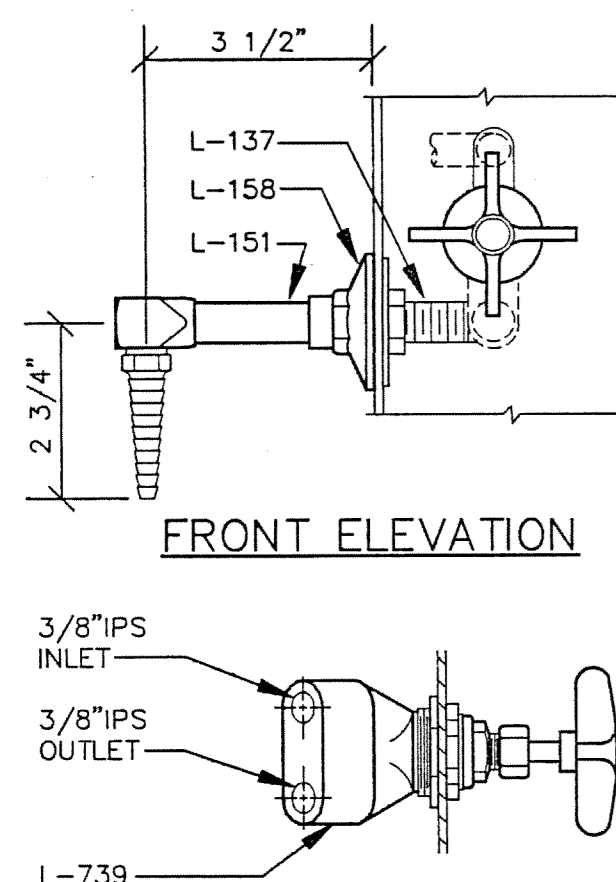
**DECK MOUNTED EMERGENCY EYEWASH**  
No. EW-806  
**SERVICE FITTING #4** EW-4



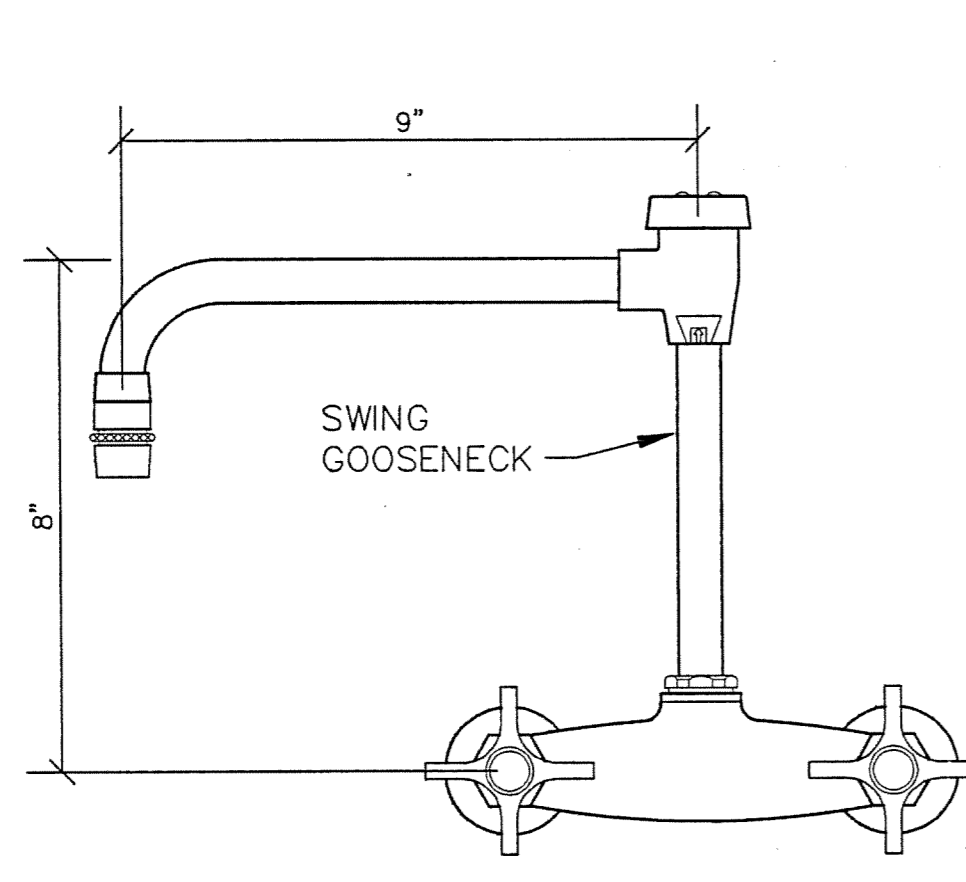
**DECK MOUNTED WATER FITTING**  
No. LR631-140-137 RIGID GOOSENECK  
No. LR631-55-137 SWING GOOSENECK @ LAB SINKS  
**SERVICE FITTING #5** CW-5



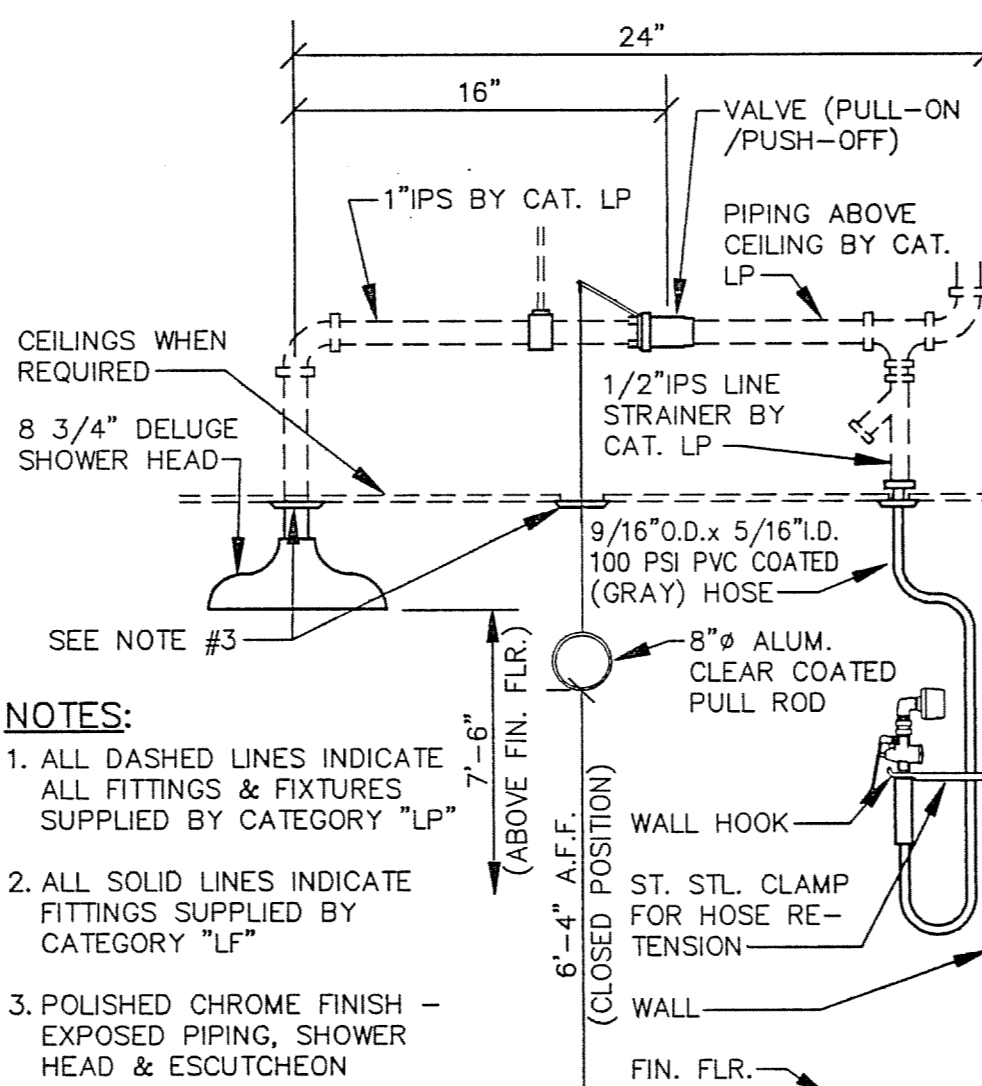
**HOOD MOUNTED FITTING FOR SPECIAL GAS, GAS, LAB AIR & LAB VACUUM**  
No. L-739HP-142-158-137 (SPECIAL GAS)  
No. L-739-142-158-137  
**SERVICE FITTING #6** SG-6X LA-6  
G-6 LV-6



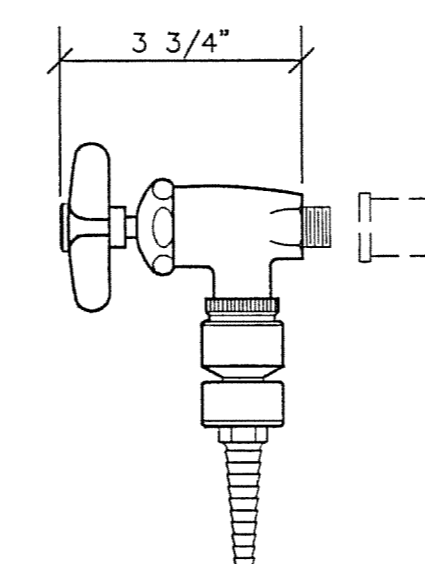
**HOOD MOUNTED WATER FITTING**  
No. L-739-137-151-140-VB  
**SERVICE FITTING #7** CW-7  
CWA-7A



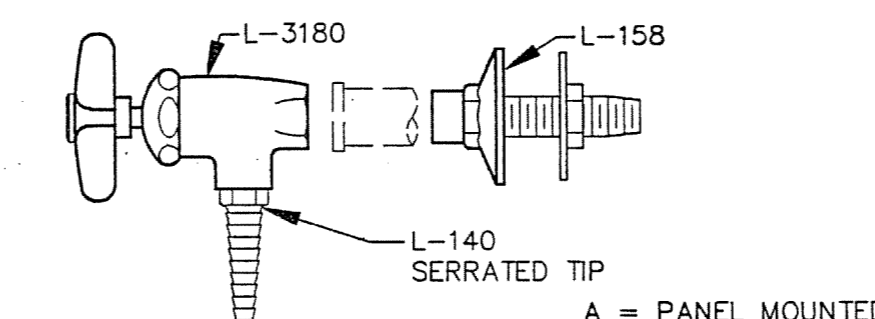
**PANEL MOUNTED MIXING FAUCET**  
No. L-1712-55-137  
**SERVICE FITTING #8** HW-CW-8



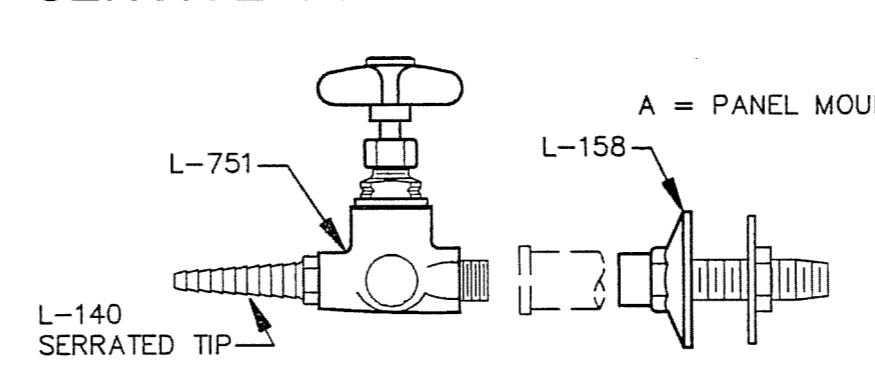
**EMERGENCY SHOWER & DRENCH HOSE**  
No. L-380-U-EW-1015  
**SERVICE FITTING #9** ES-DH-9



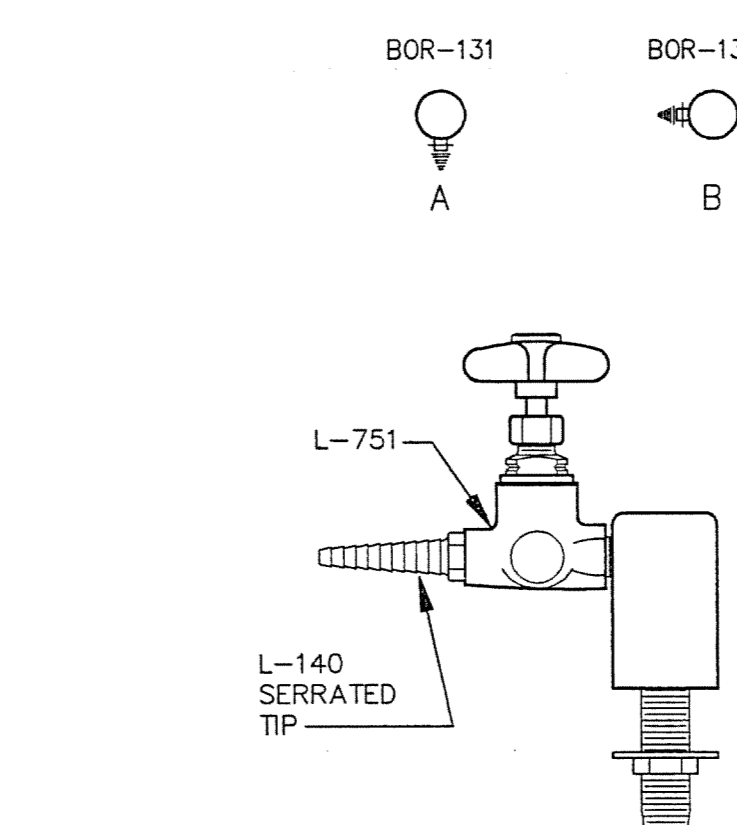
**PIPE MOUNTED WATER FITTING**  
No. L-3100-110-140  
**SERVICE FITTING #10** CW-10



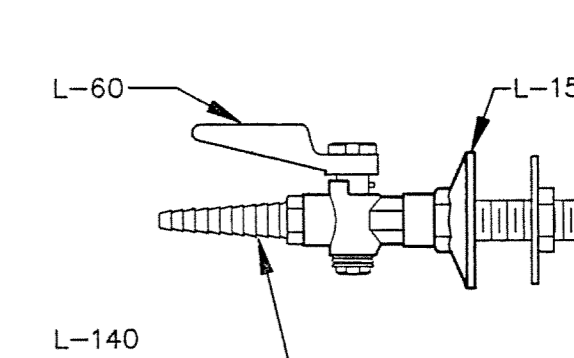
**PANEL OR PIPE MOUNTED NEEDLE VALVE FOR GAS, LAB AIR, LAB VACUUM**  
11 = No. L-3180-140  
11A = No. L-3180-140-158  
G-11 G-11A  
LA-11 LA-11A  
LV-11 LV-11A  
**SERVICE FITTING #11**



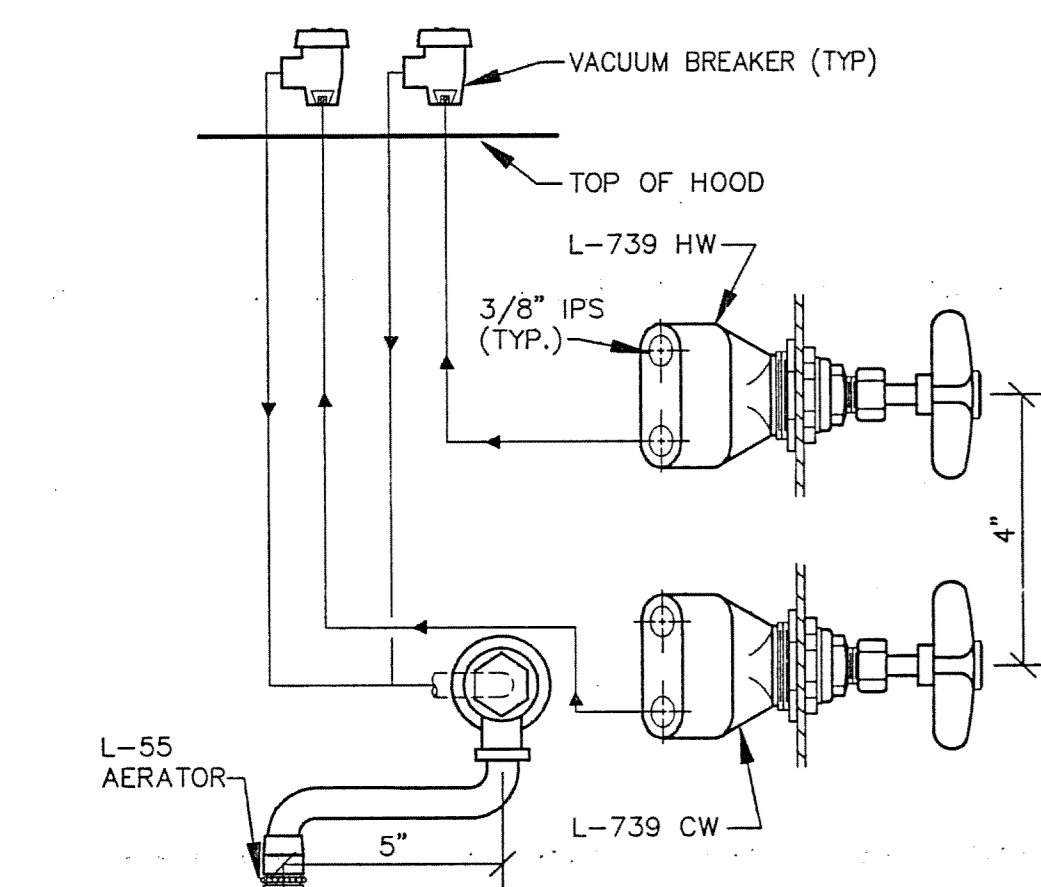
**PANEL OR PIPE MOUNTED NEEDLE-POINT VALVE FOR SPECIAL GAS**  
12 = No. L-751-140  
12A = No. L-751-140-158  
SG-12 SG-12A  
**SERVICE FITTING #12**



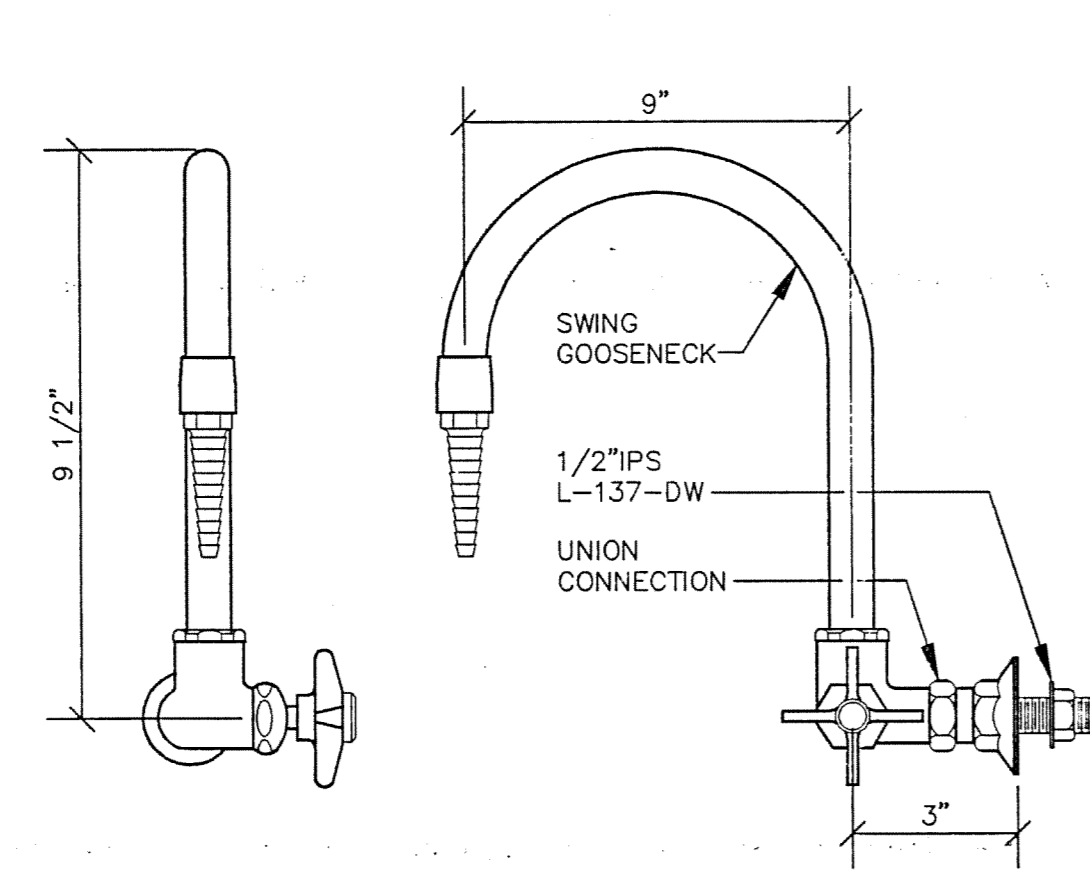
**DECK MOUNTED NEEDLE-POINT VALVE FOR SPECIAL GAS**  
No. L-751-BOR132S-140-137  
**SERVICE FITTING #13** SG-13A  
SG-13B



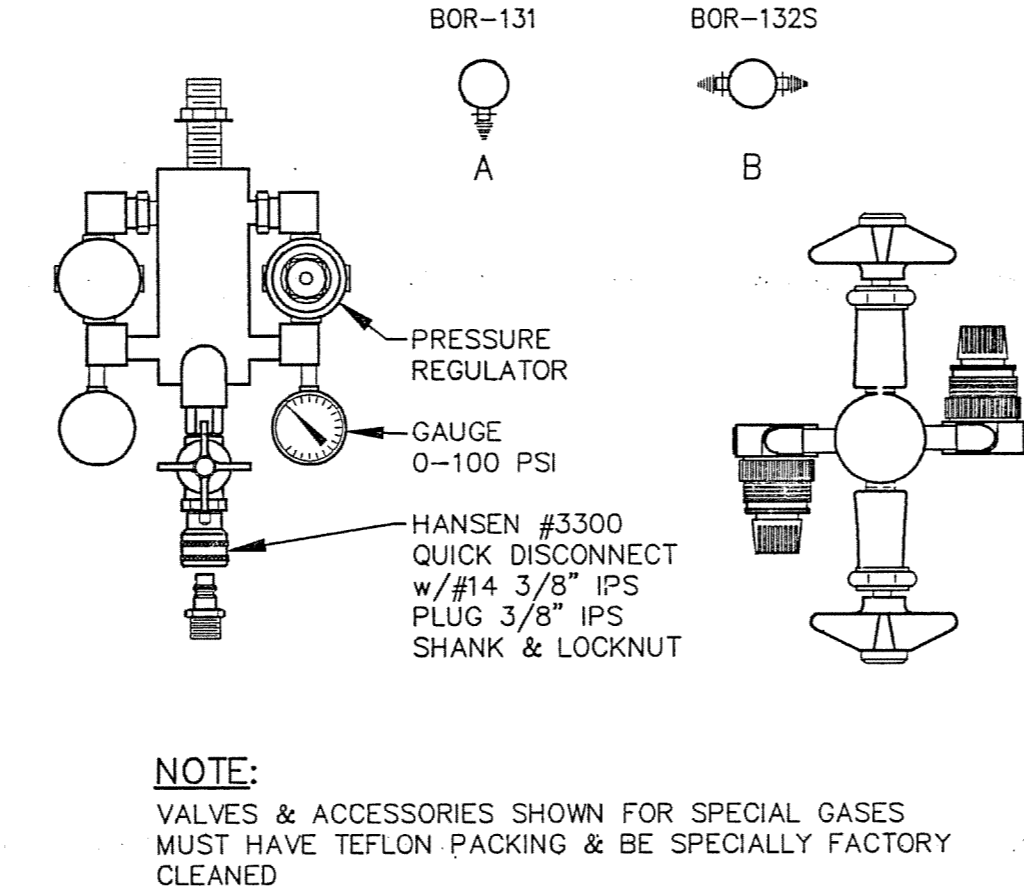
**PANEL MOUNTED KEY HOSE COCK FOR GAS & LAB AIR**  
No. L-60-140-158  
**SERVICE FITTING #14** G-14  
LA-14



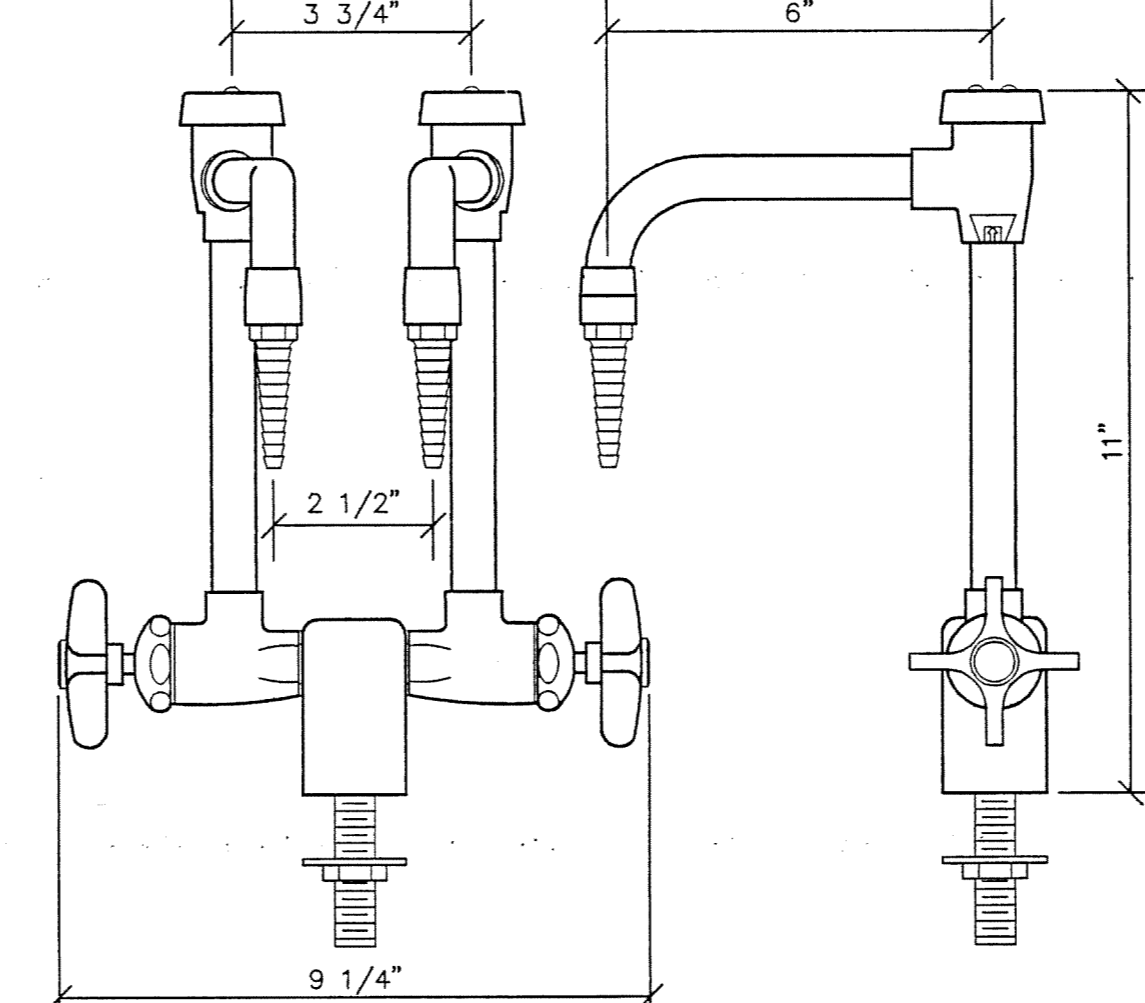
**HOOD MOUNTED FITTING FOR HW-CW MIXING FAUCET w/SWING GOOSENECK**  
No. L-739(2)-55  
**SERVICE FITTING #15** HW-CW-15



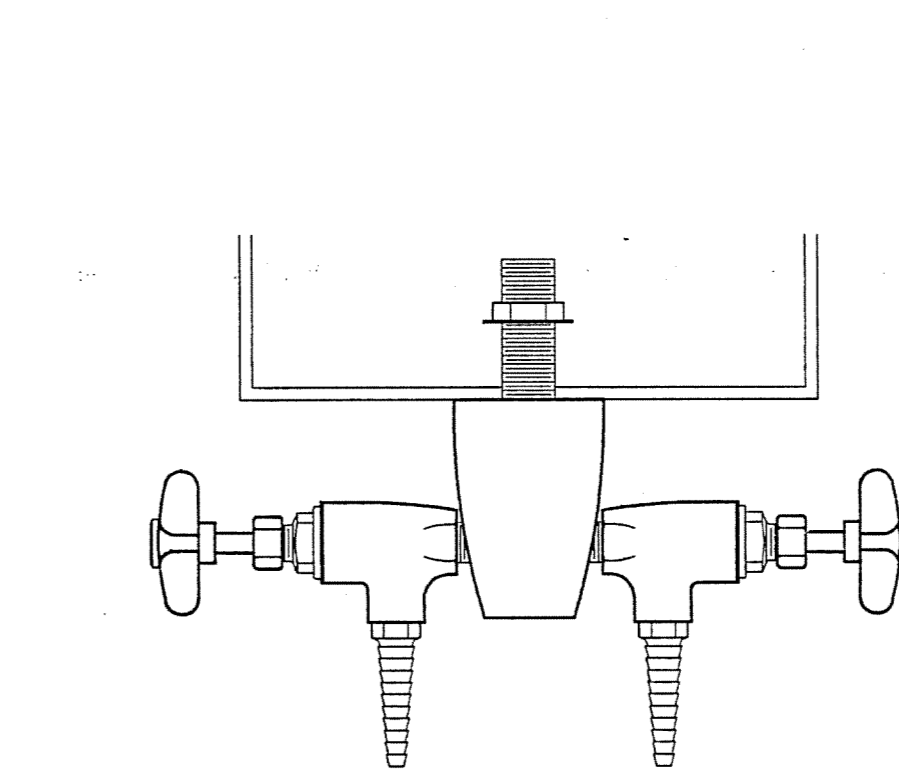
**PANEL MOUNTED HIGH PURITY WATER FITTING**  
No. L-2781-SG HOT TIN LINED w/NONSELF CLOSING HANDLE  
**SERVICE FITTING #16** DW-16



**OVERHEAD SERVICE CARRIER MOUNTED HIGH PRESSURE SERVICE FITTING w/PRESSURE REGULATOR, GAUGE, & QUICK DISCONNECT**  
No. L-770-61-3300-14  
**SERVICE FITTING #17** A-17A  
A-17B

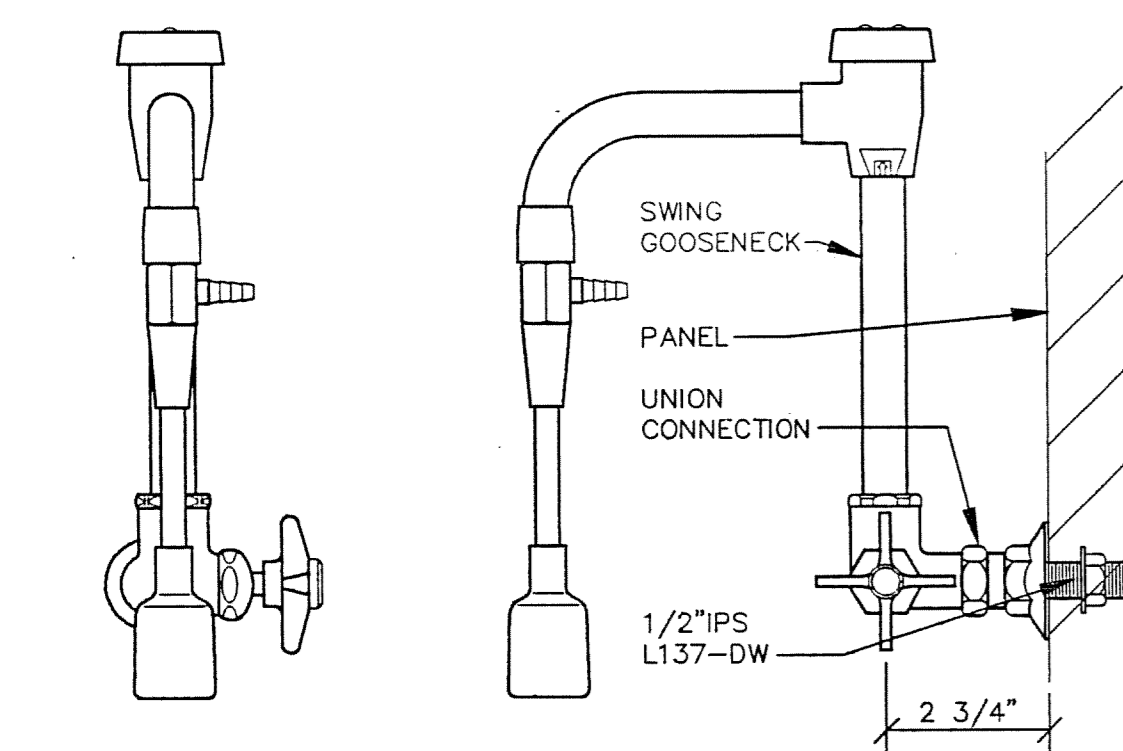


**DECK MOUNTED DUPLEX WATER FITTING**  
No. LR370C-AVC-VB-WSA  
**SERVICE FITTING #18** CW-18

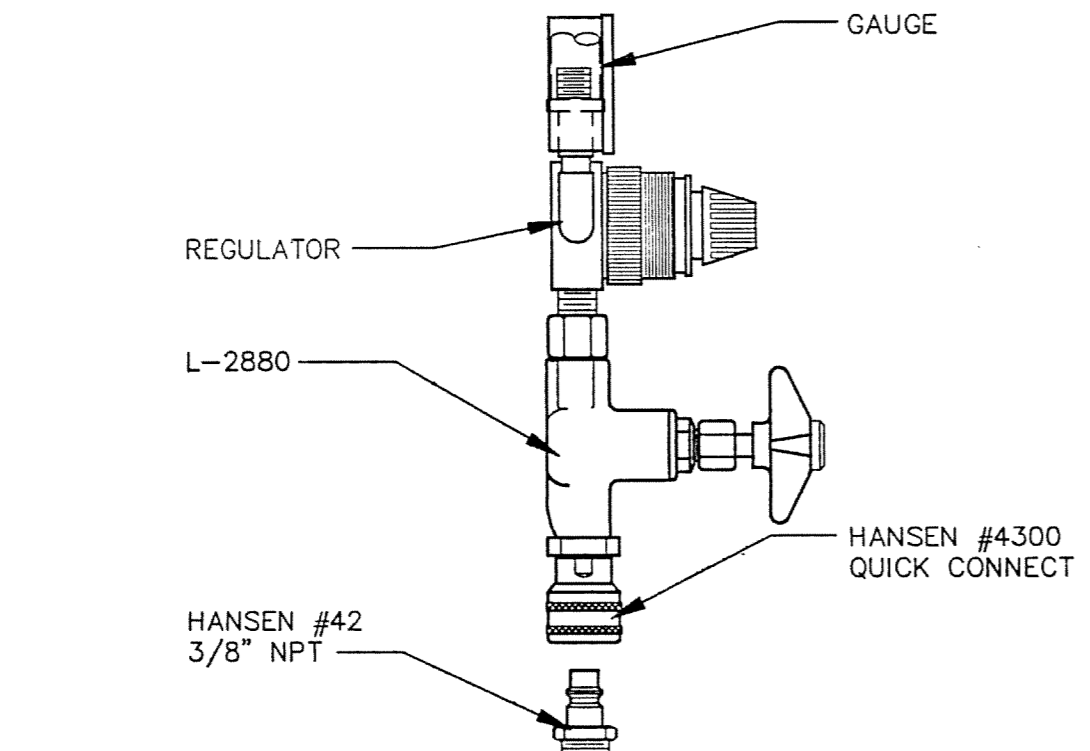


**PANEL MOUNTED NEEDLE VALVE FOR LAB VACUUM**  
No. L-3180-140-BOR132S  
No. L-752-140-BOR132S (FOR SPECIAL GAS)  
LV-19 SG-19  
**SERVICE FITTING #19**

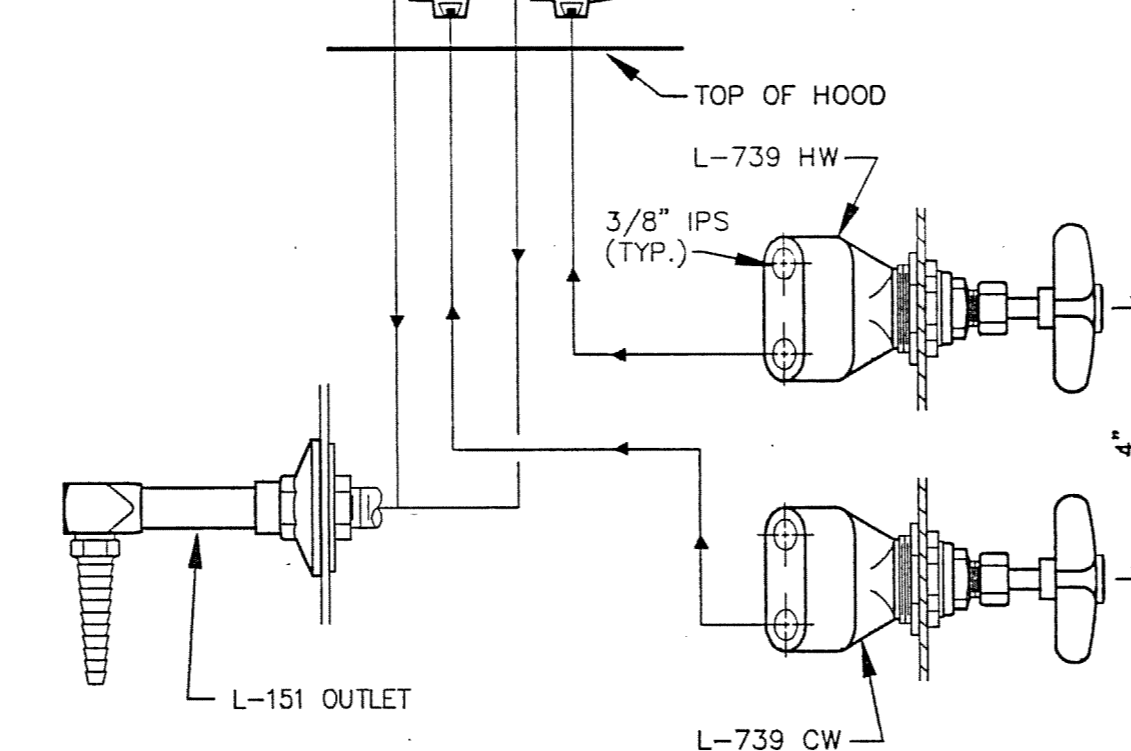
**PIPE MOUNTED NEEDLE VALVE FOR SPECIAL GAS, GAS & AIR**  
WHITEY INTEGRAL BONNET NEEDLE VALVE  
No. B-1VM4-S4  
**SERVICE FITTING #20** SG-20  
G-20  
A-20



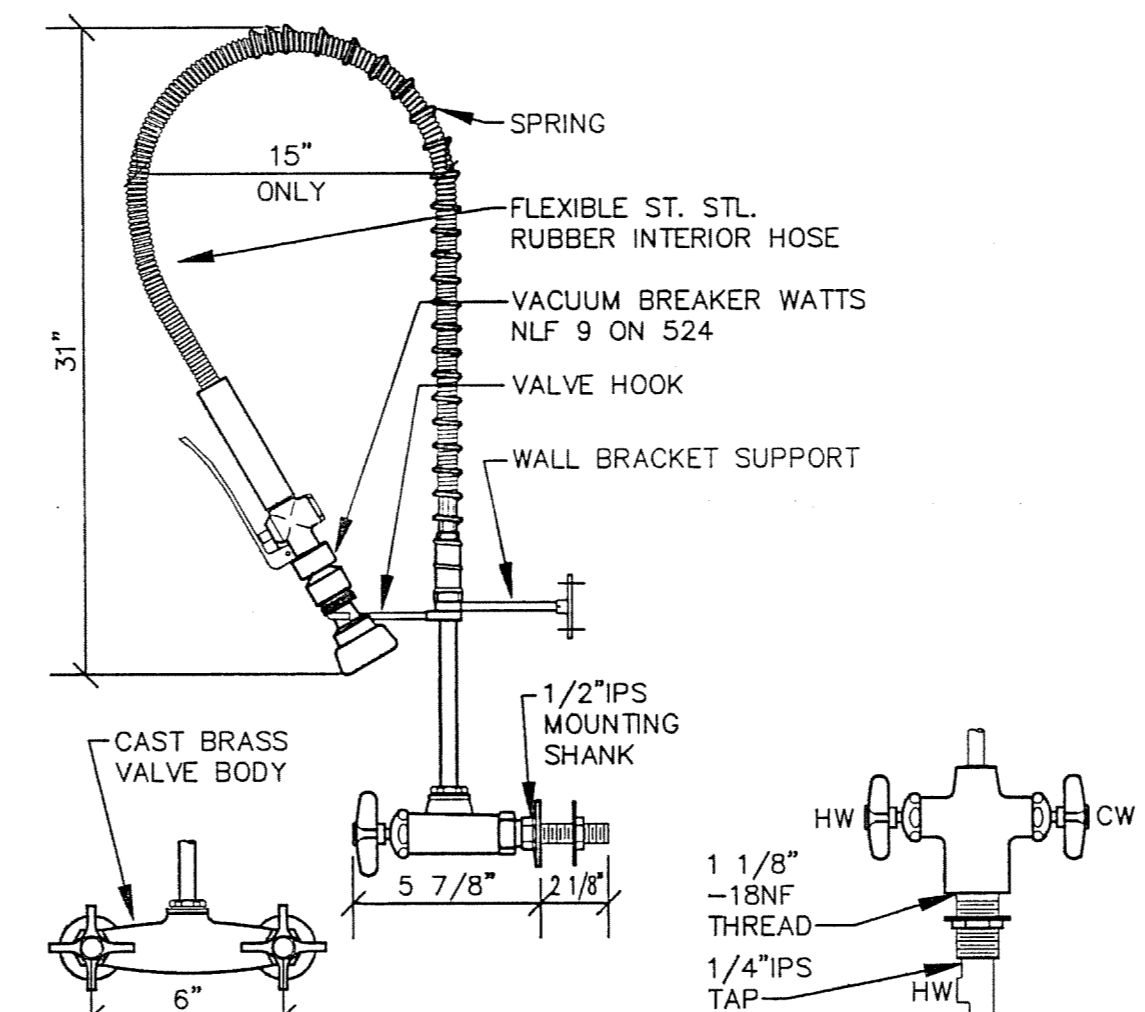
**PANEL MOUNTED WATER FITTING WITH ASPIRATOR**  
L-2712-VB-127  
**SERVICE FITTING #21** CWA-21



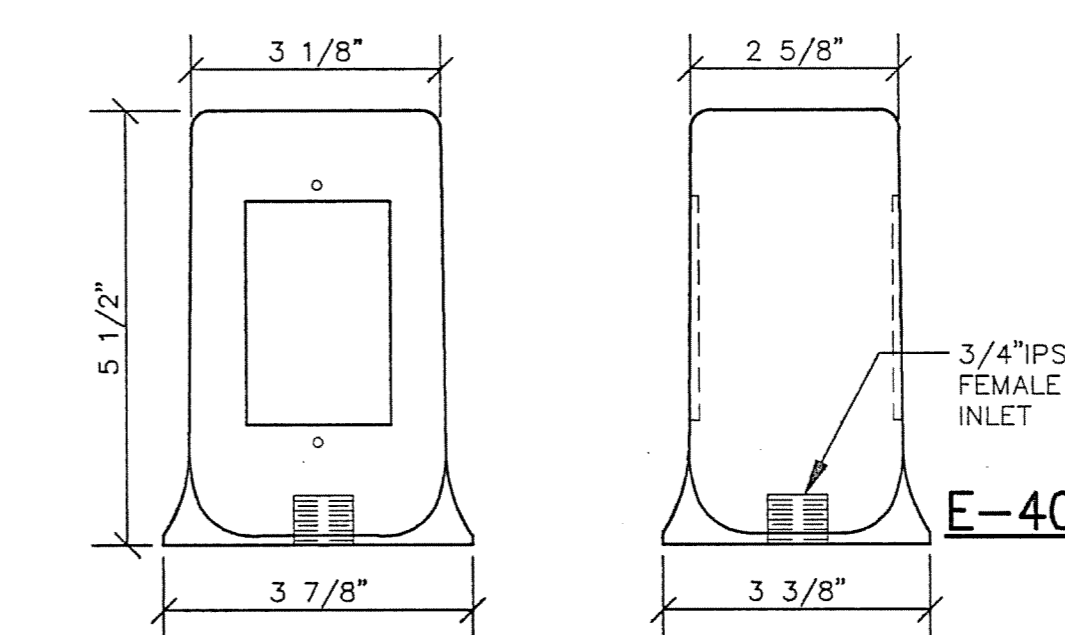
**PIPE MOUNTED HIGH PRESSURE AIR FITTING w/REGULATOR & GAUGE**  
No. L-2800-365-4300-42  
**SERVICE FITTING #22** A-22



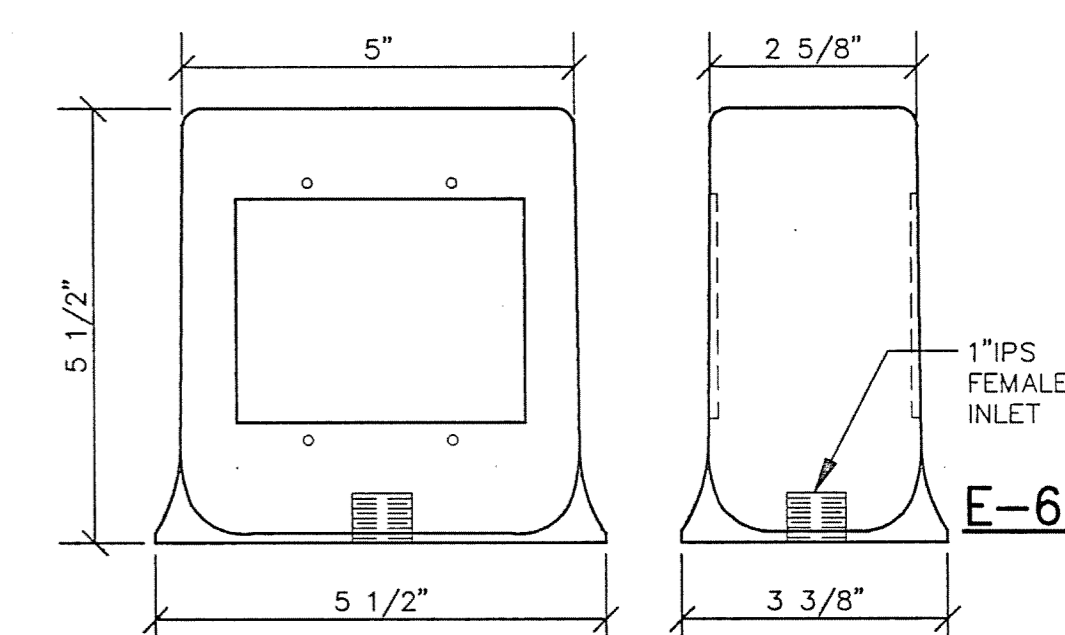
**HOOD MOUNTED FITTING FOR HW-CW MIXING FAUCET**  
No. L-739(2)-55-151  
**SERVICE FITTING #23** HW-CW-23



**DECK & PANEL MOUNTED PRE-RINSE FITTING**  
A = No. PR431-110 DECK MOUNTED  
B = No. PR431-100 PANEL MOUNTED  
**SERVICE FITTING #24** HW-CW-24A  
HW-CW-24B



**BENCH MOUNTED ELECTRICAL PEDESTAL**  
E-1 - E-400 LUSTRE-BRITE ALUMINUM, DOUBLE FACE PEDESTAL BOX  
**SERVICE FITTING E-1** E-1

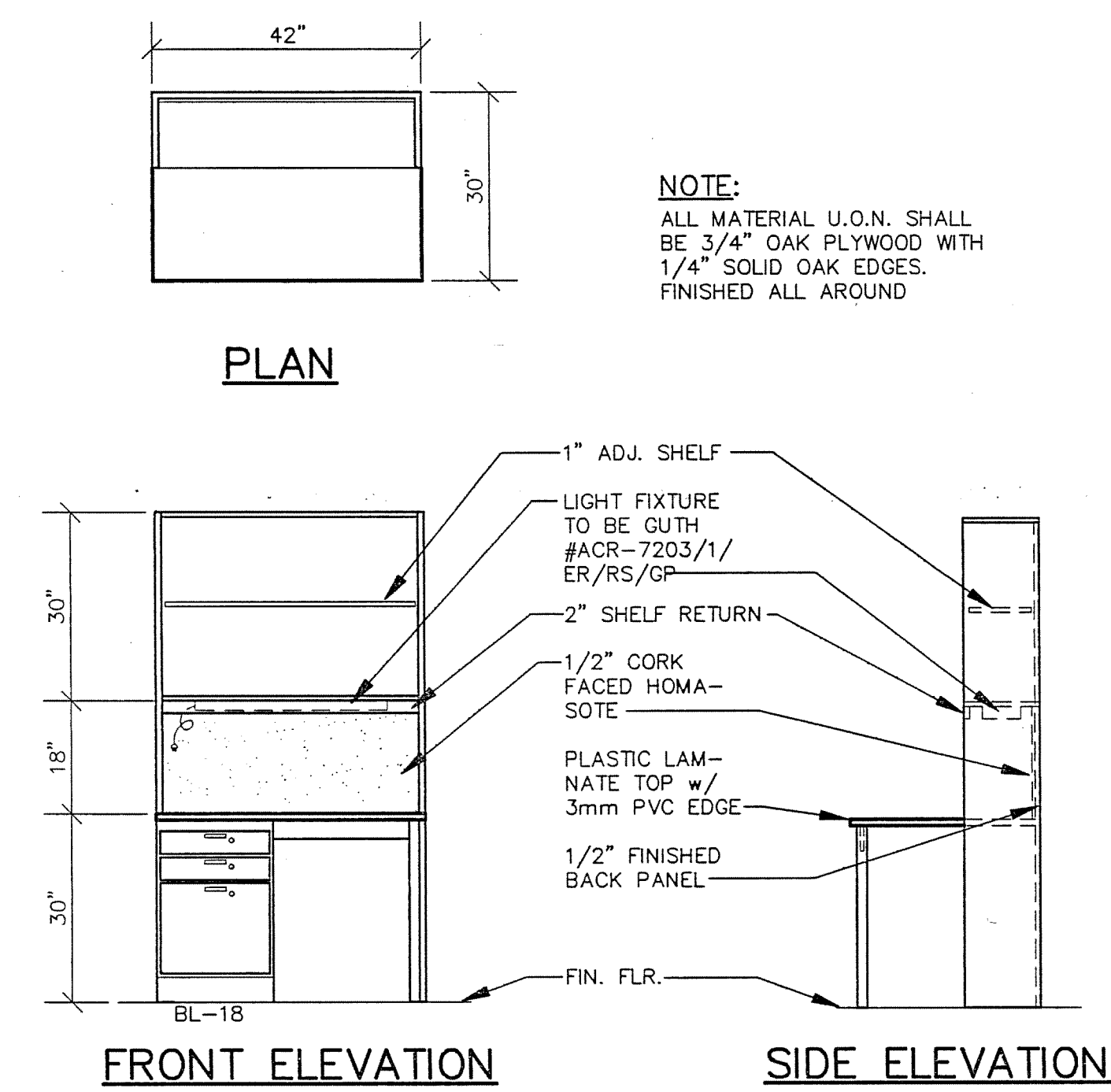


**BENCH MOUNTED ELECTRICAL PEDESTAL**  
E-2 - E-600 LUSTRE-BRITE ALUMINUM, DOUBLE FACE PEDESTAL BOX  
**SERVICE FITTING E-2** A6-BUILT

NO.	DATE	REMARKS

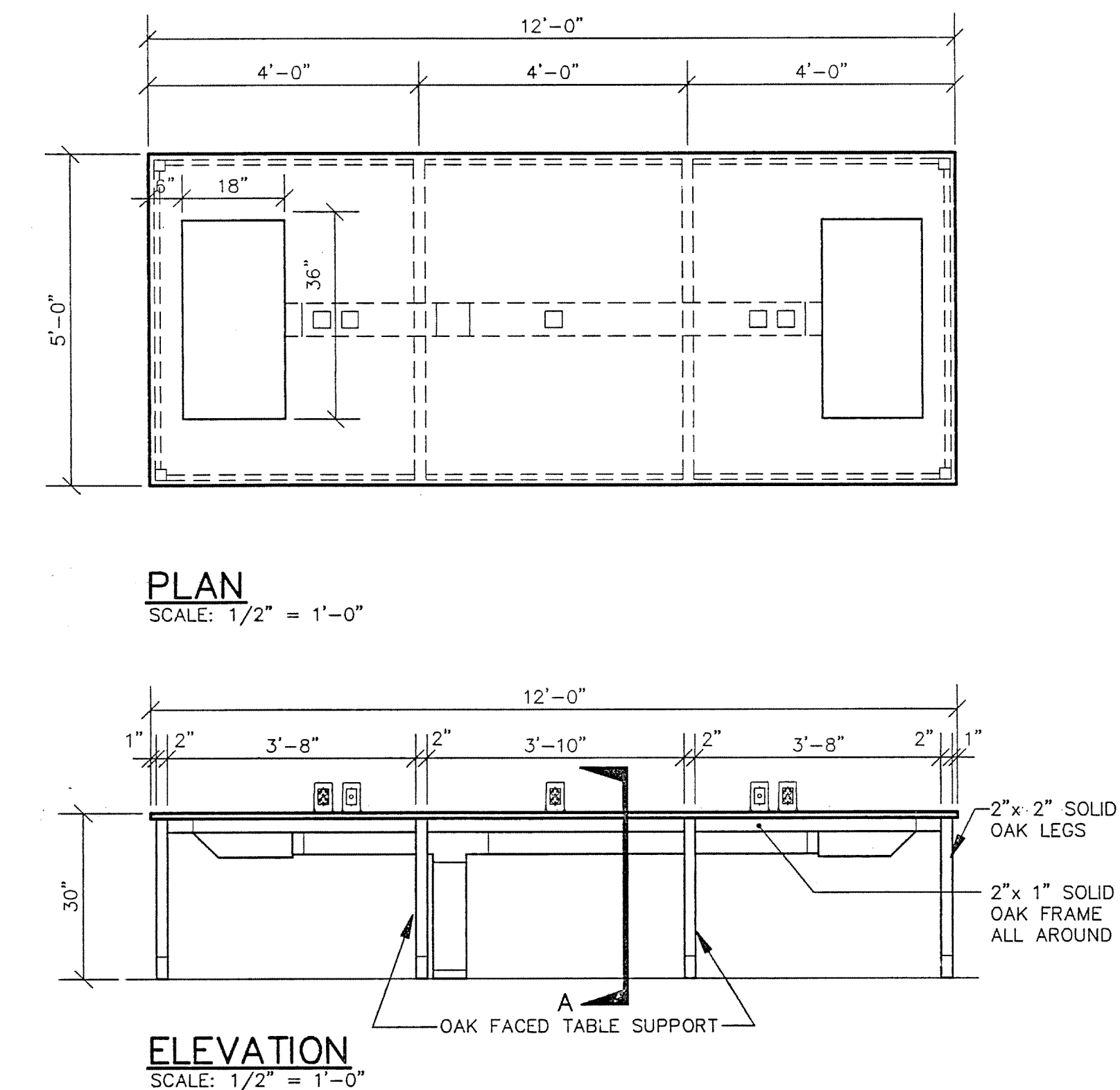
DATE:	5/16/94
PROJECT#:	8962
DESIGNED BY:	PJK
DRAWN BY:	MGM
CHECKED BY:	PJK

**unwall**  
Eort Walls Associates  
Laboratory Design Consultants  
5348 Carral Canyon Road  
San Diego, California 92121  
(619)457-2400



1 DESK UNIT (TYPICAL)  
SCALE: 1/2" = 1'-0"

EARL WALLS ASSOCIATES © 1993

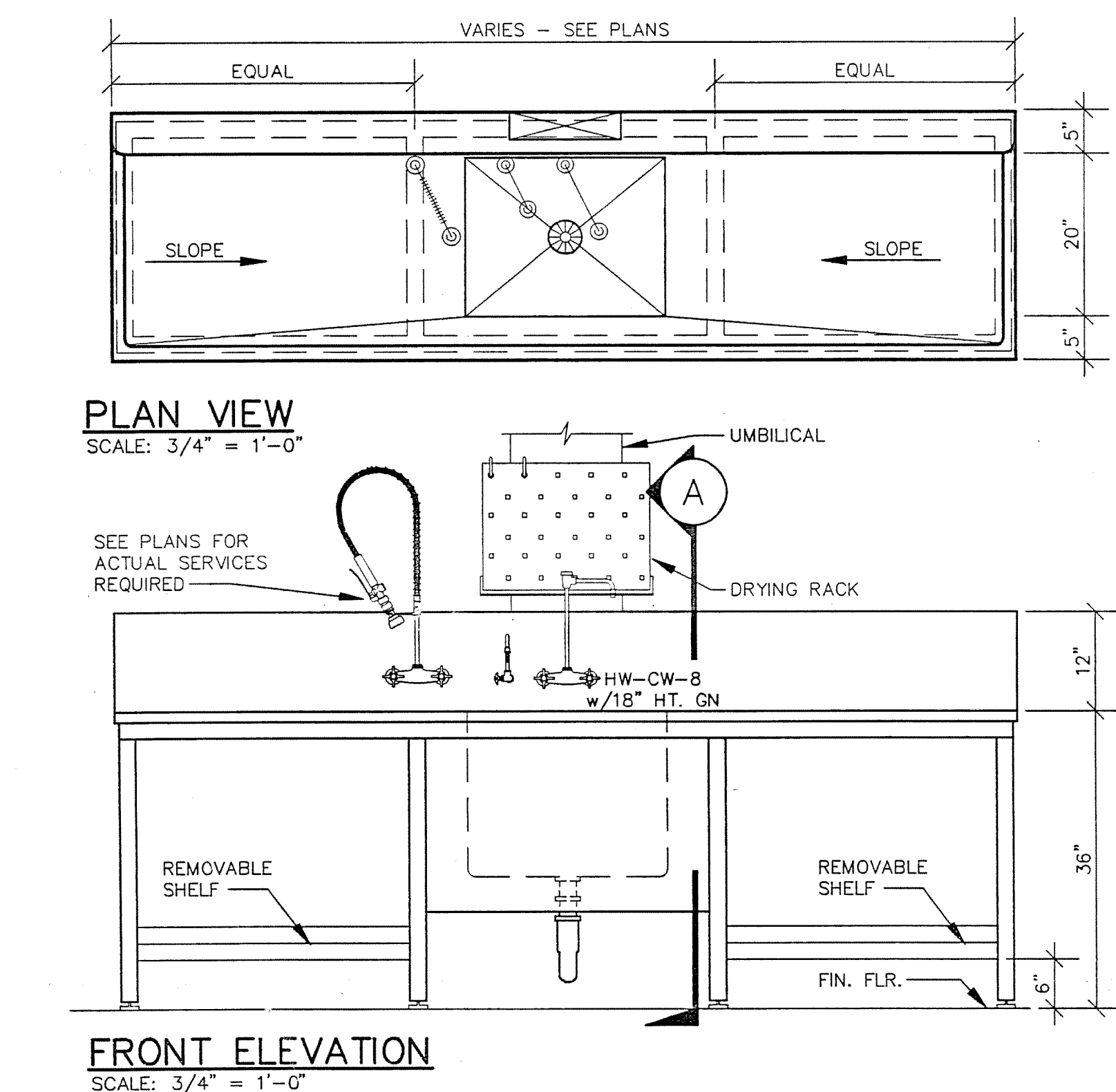


2 BIO/CHEM BENCH  
SCALE: 1/2" = 1'-0"

EARL WALLS ASSOCIATES © 1993

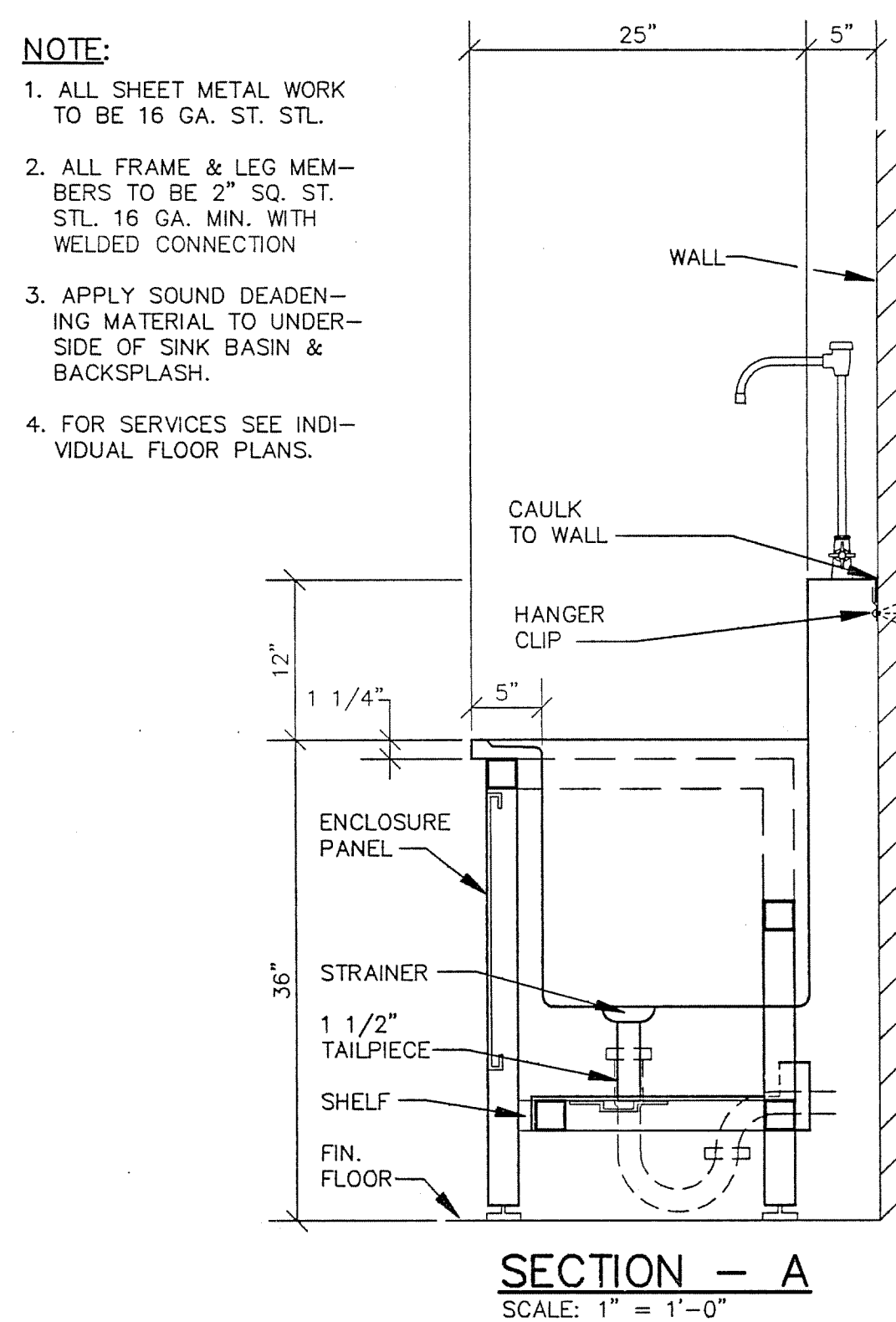
3 DOWN DRAFT BENCH DETAIL  
SCALE: AS NOTED

EARL WALLS ASSOCIATES © 1993

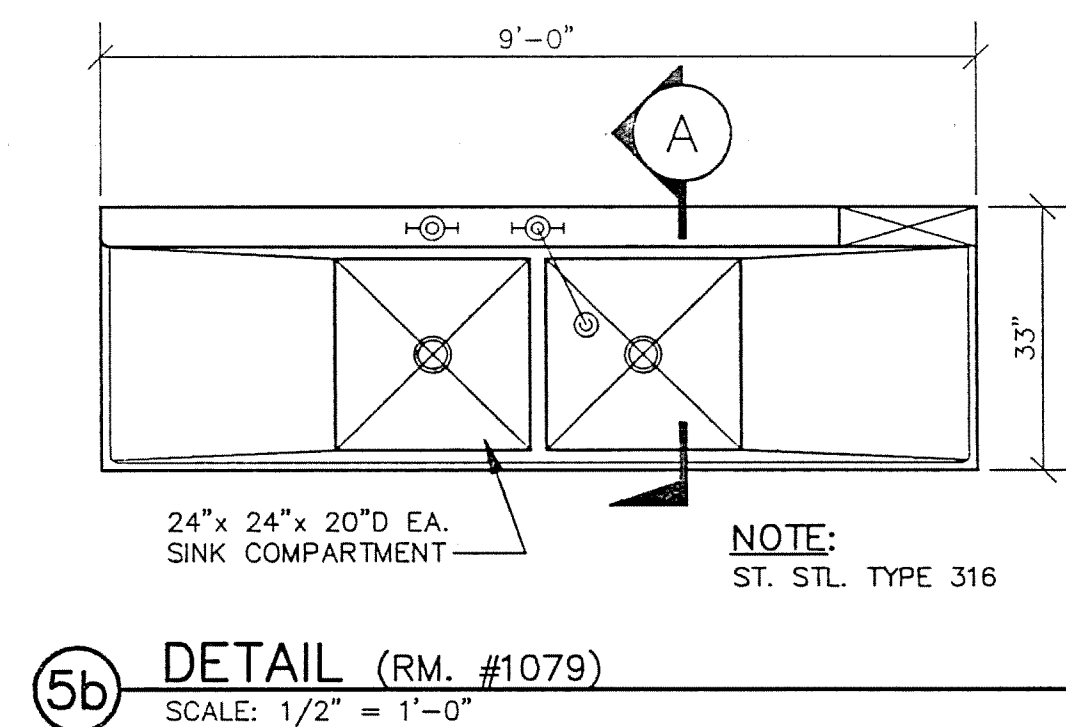


5 GLASSWASH SINK DETAIL (BIOLOGY LAB PREP RM. #2014 & ANIMAL HOUSE RM. #1079)  
SCALE: AS NOTED

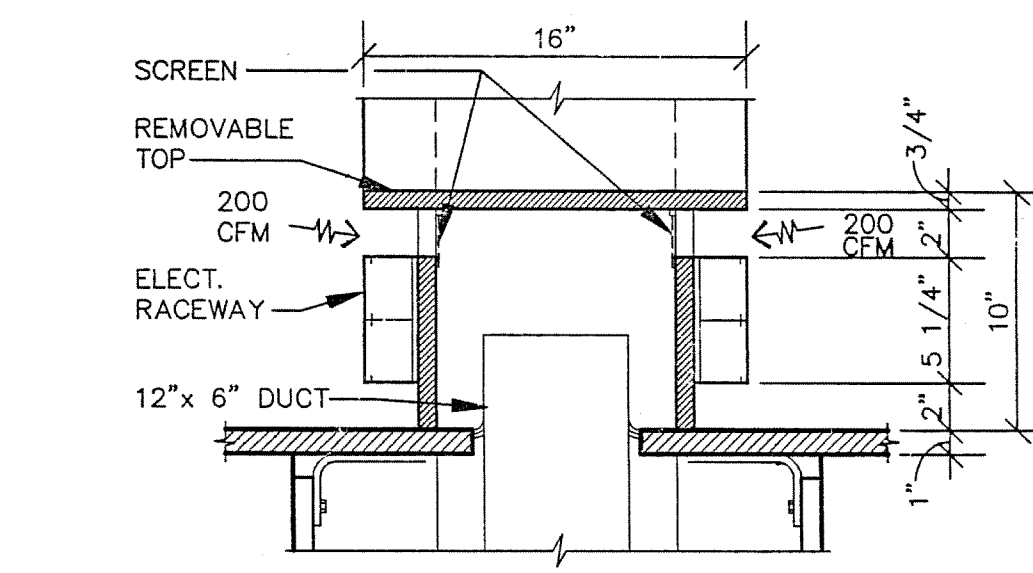
EARL WALLS ASSOCIATES © 1993



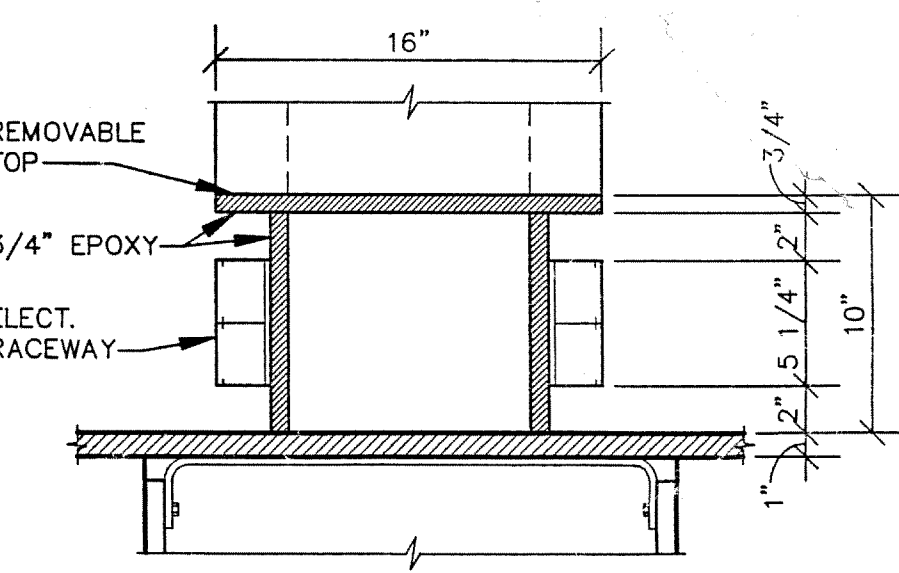
5a DETAIL (RM. #2014)  
SCALE: 1/2" = 1'-0"



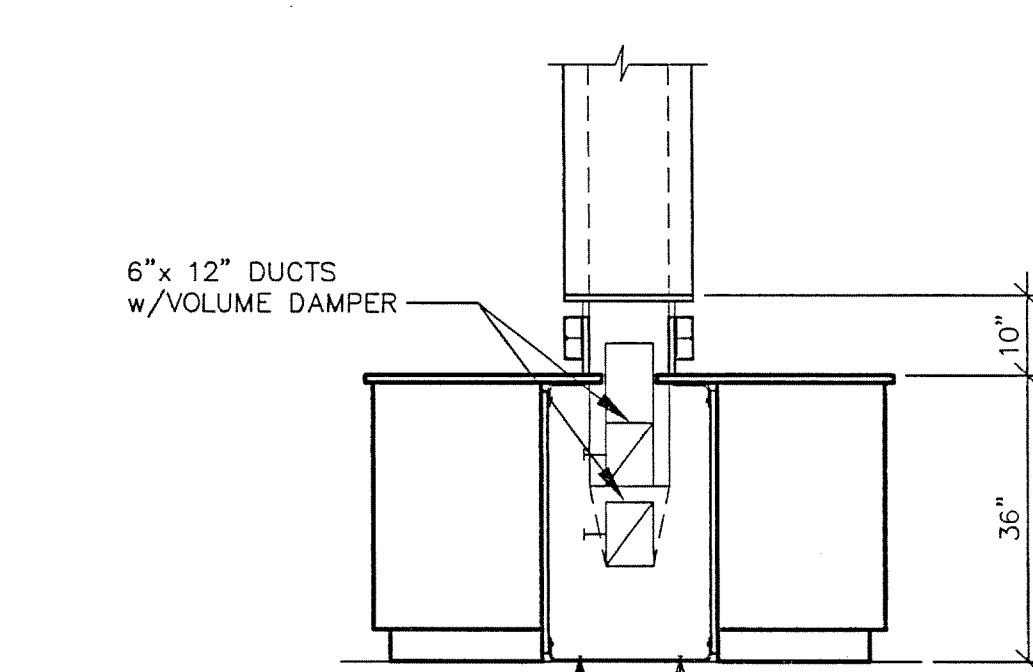
5b DETAIL (RM. #1079)  
SCALE: 1/2" = 1'-0"



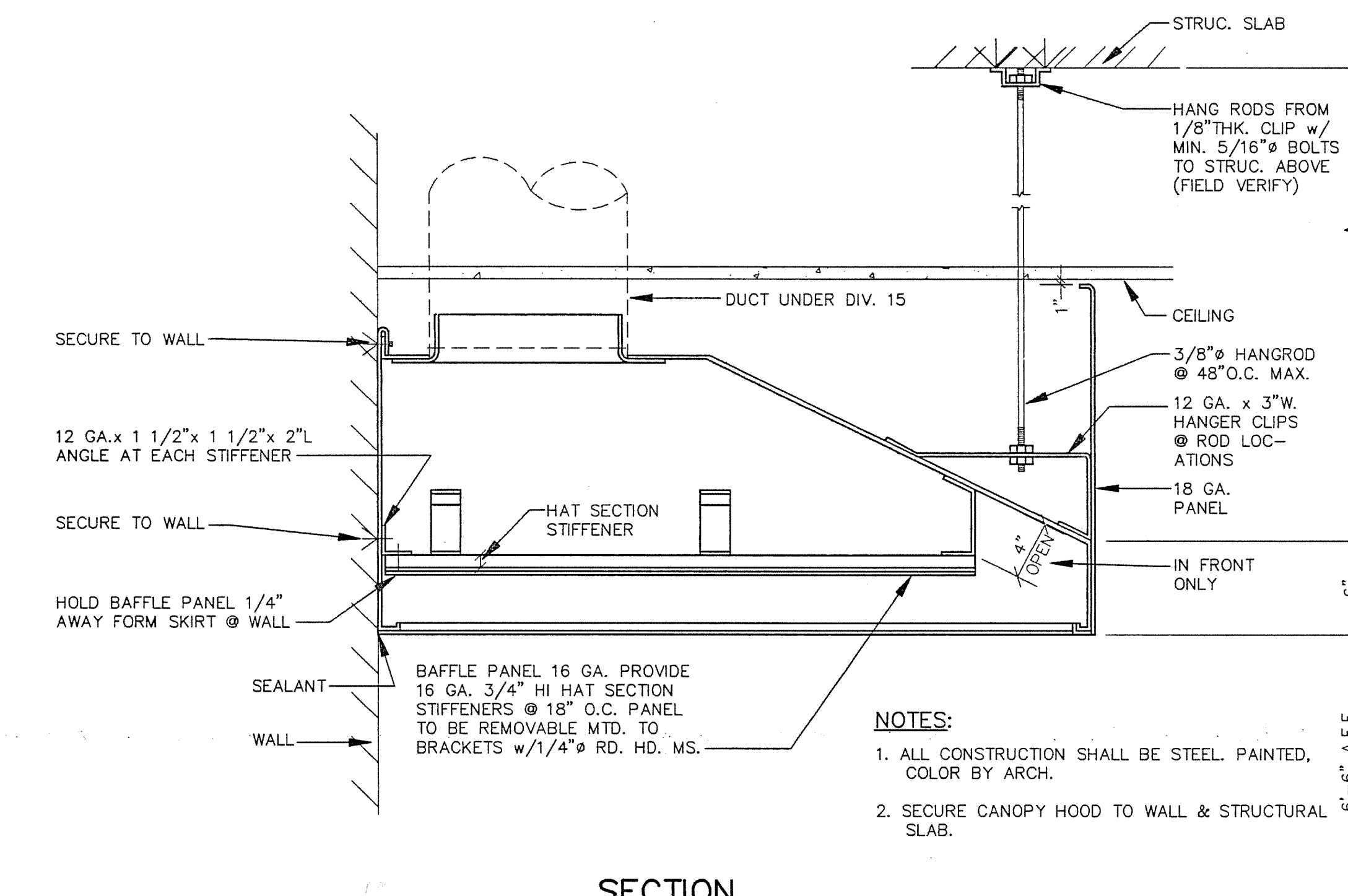
1 DETAIL  
SCALE: 1 1/2" = 1'-0"



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

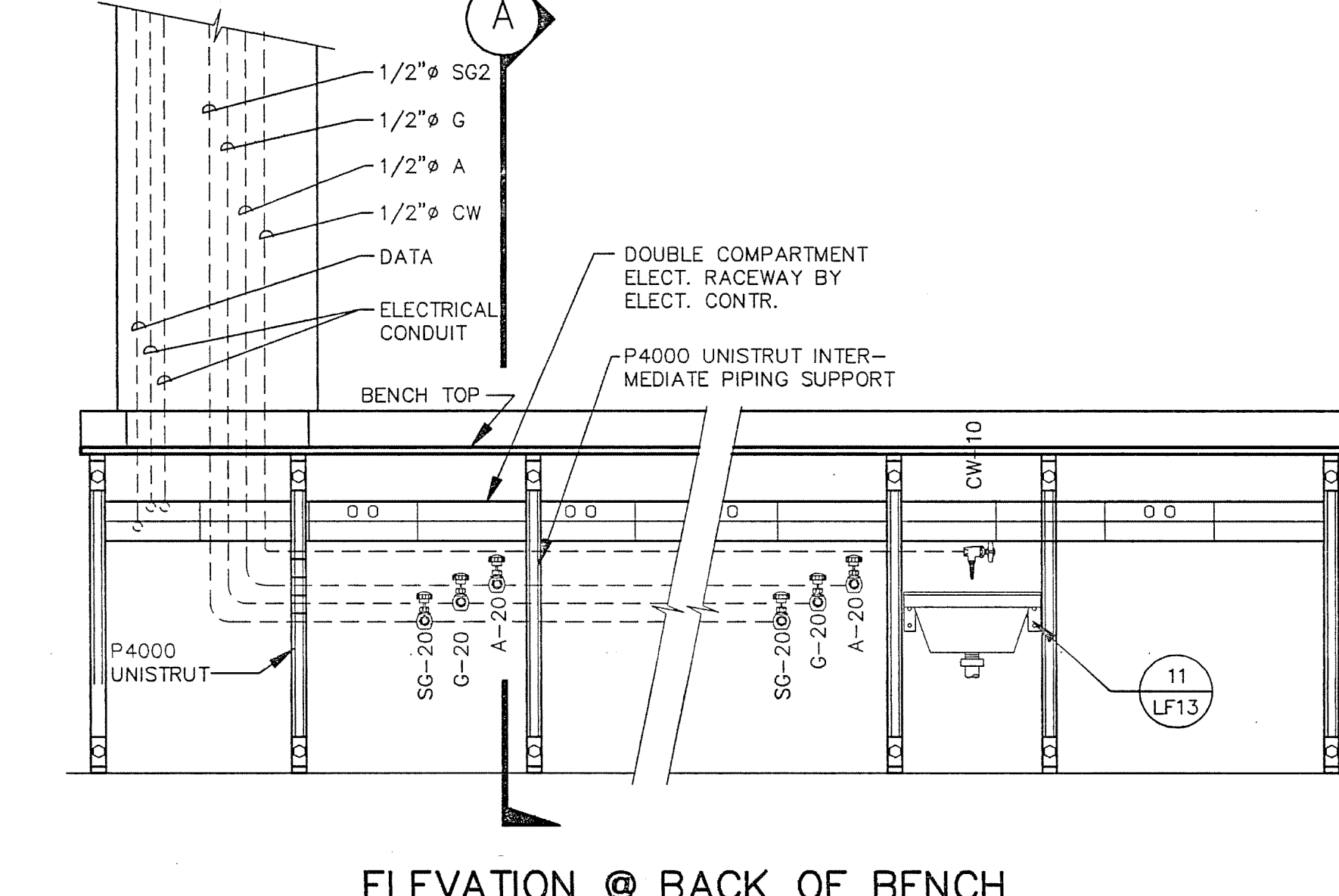
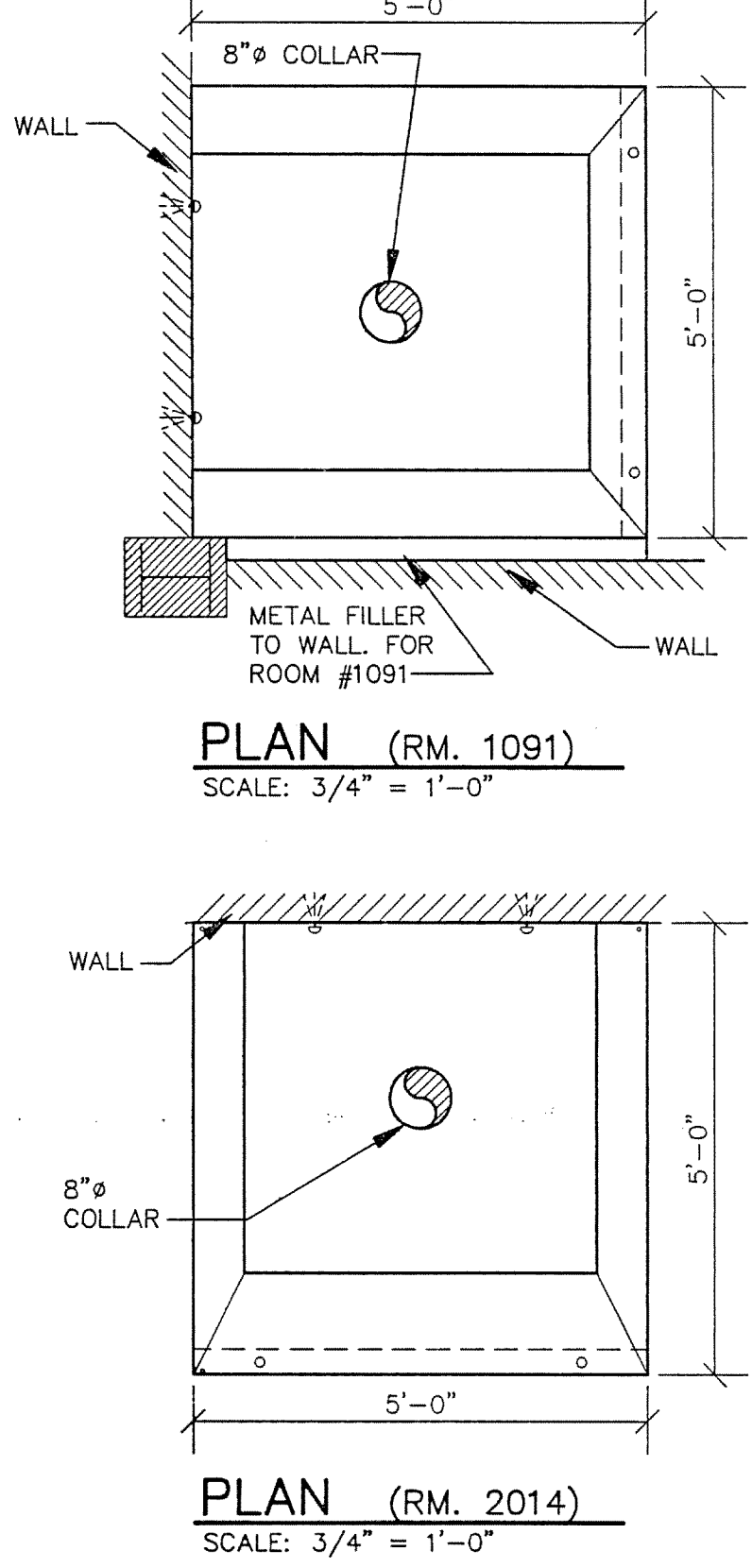


SECTION - A

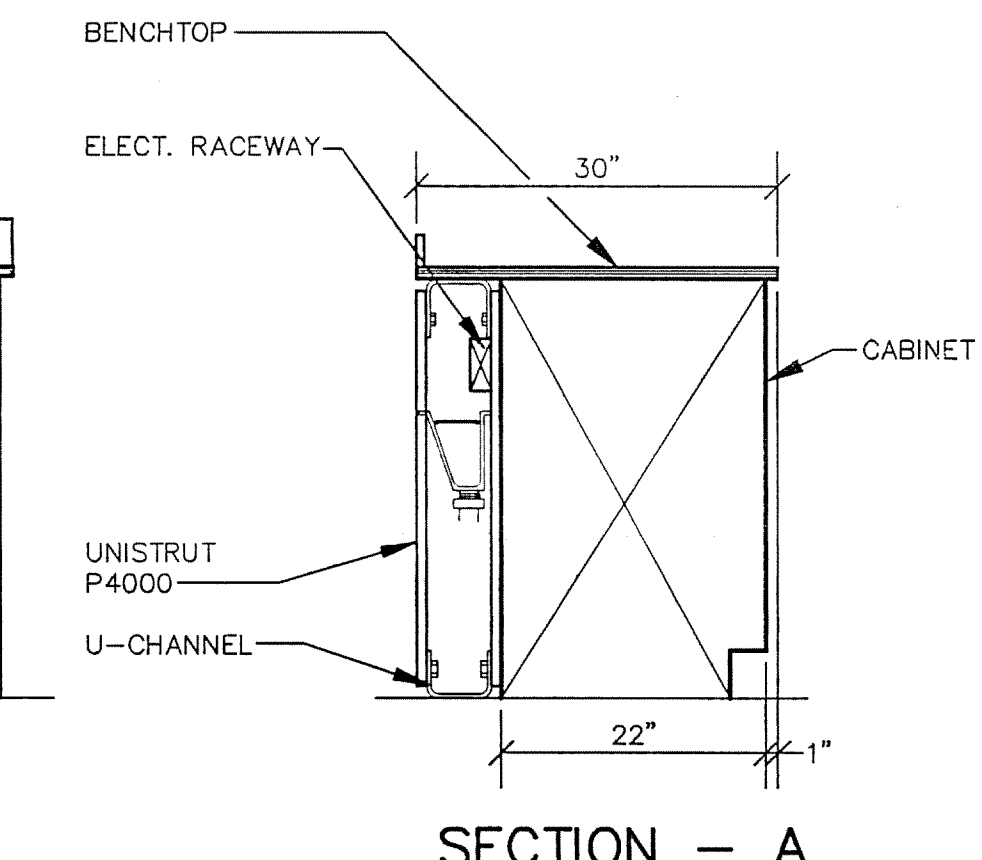


4 CANOPY HOOD DETAIL  
SCALE: AS NOTED

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6 SPLIT BENCH DETAIL  
SCALE: 3/4" = 1'-0"



**EARL WALLS ASSOCIATES**  
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(619) 577-2400

DRAWING REVISIONS:	DATE:	5/16/94
NO. DATE: REMARKS:	PROJECT#:	8862
	DESIGNED BY:	PJK
	DRAWN BY:	MGM
	CHECKED BY:	PJK
	CHECKED BY:	

**AS-BUILT**

**LF17**

SCIENCE BUILDING  
UNIVERSITY OF NORTH CAROLINA AT WILMINGTON  
CODE 49388 ITEM 301 ID#084280301A

LAB FURNISHINGS  
DETAILS

SHEET NO.:

**JEFFERIES AND FARIS ASSOCIATES**  
ARCHITECTS • PLANNERS  
SEA TOWERS, SUITE 201  
2002 EASTWOOD ROAD  
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