

# LEGEND TO DRAWINGS

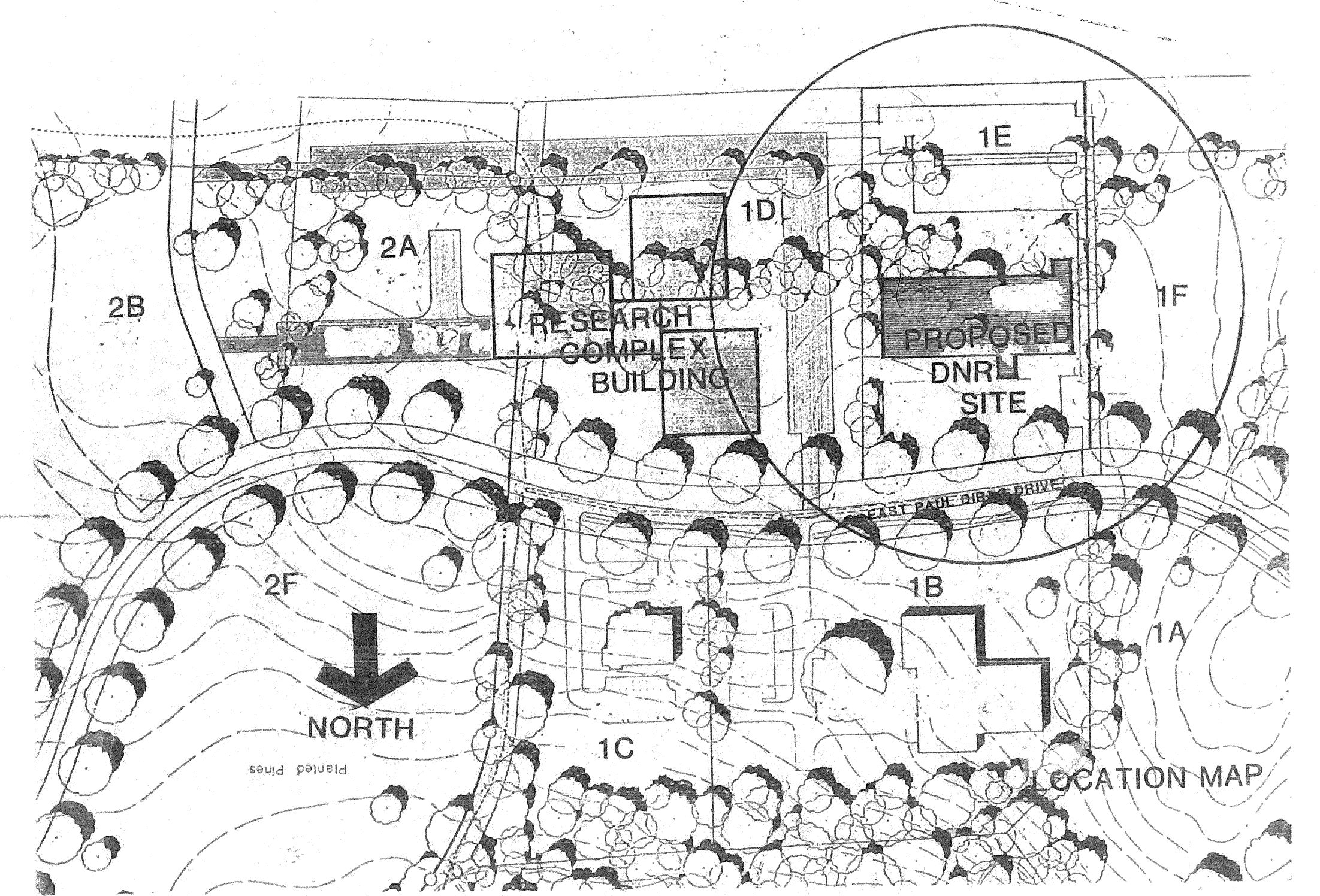
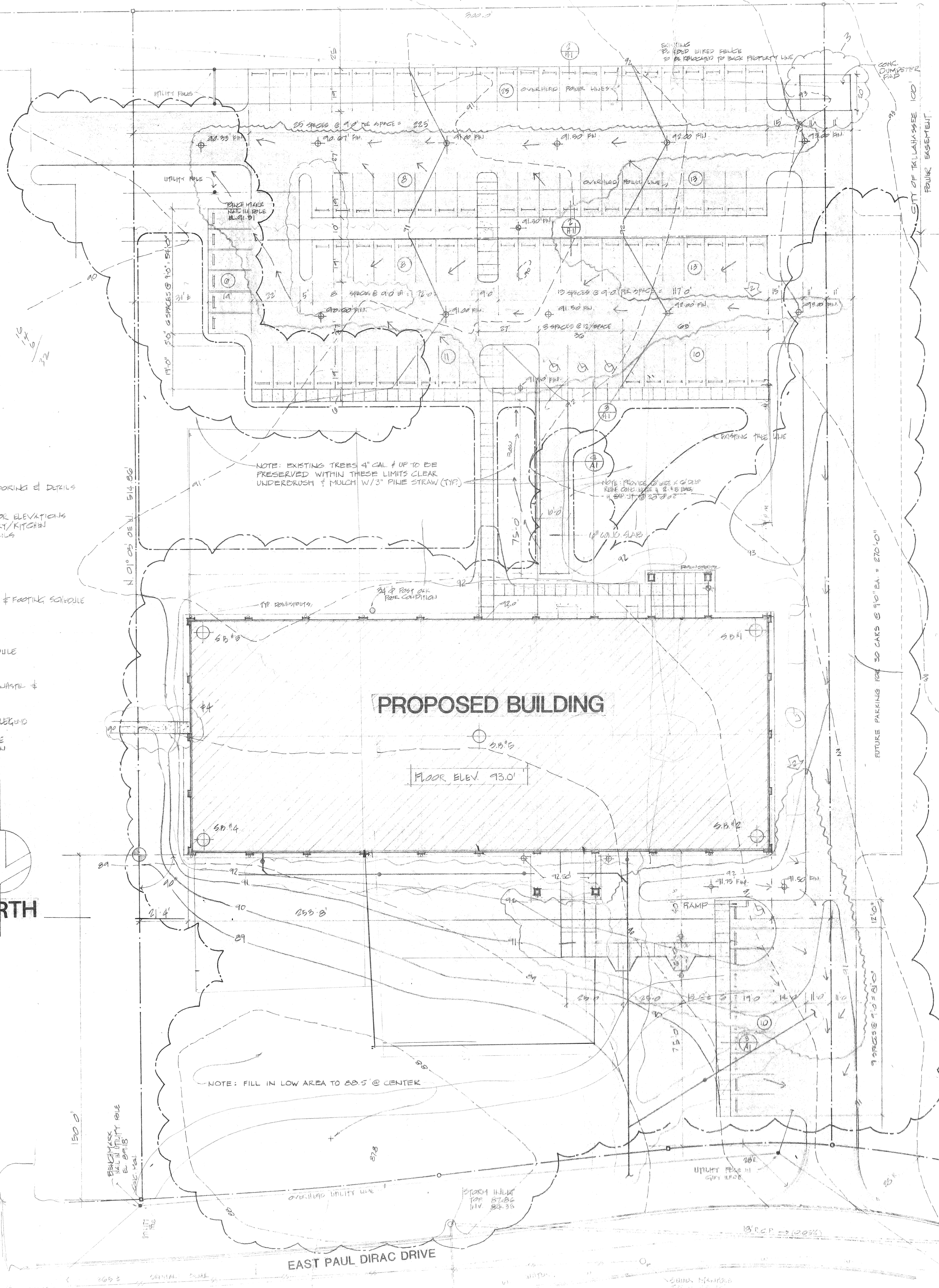
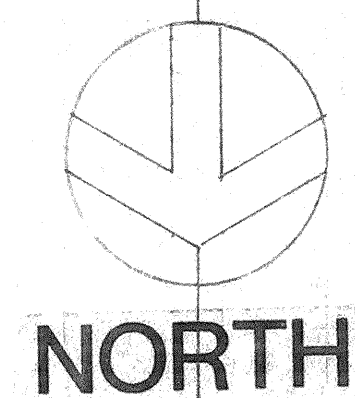
- ARCHITECTURAL  
 A 1 SITE PLAN, LOCATION MAP, SOIL BORING & DETAILS  
 A 2 LANDSCAPE PLAN  
 A 3 FLOOR PLAN  
 A 4 ENLARGED FLOOR PLAN & INTERIOR ELEVATIONS  
 A 5 ENLARGED FLOOR PLAN LABORATORY/KITCHEN  
 A 6 WINDOW & DOOR/SCREEN TYPES & DETAILS  
 A 7 CROSS SECTION & SECTIONS  
 A 8 SECTIONS & DETAILS  
 A 9 EXTERIOR ELEVATIONS

- STRUCTURAL  
 S 1 FOUNDATION PLAN, GENERAL NOTES & FOOTING SCHEDULE  
 S 2 SECTIONS & DETAILS

- Mechanical  
 M 1 HVAC PLAN  
 M 2 HVAC SCHEDULE & MECH LEGEND  
 M 3 DIFFUSERS, REGISTERS, & GRILLE SCHEDULE

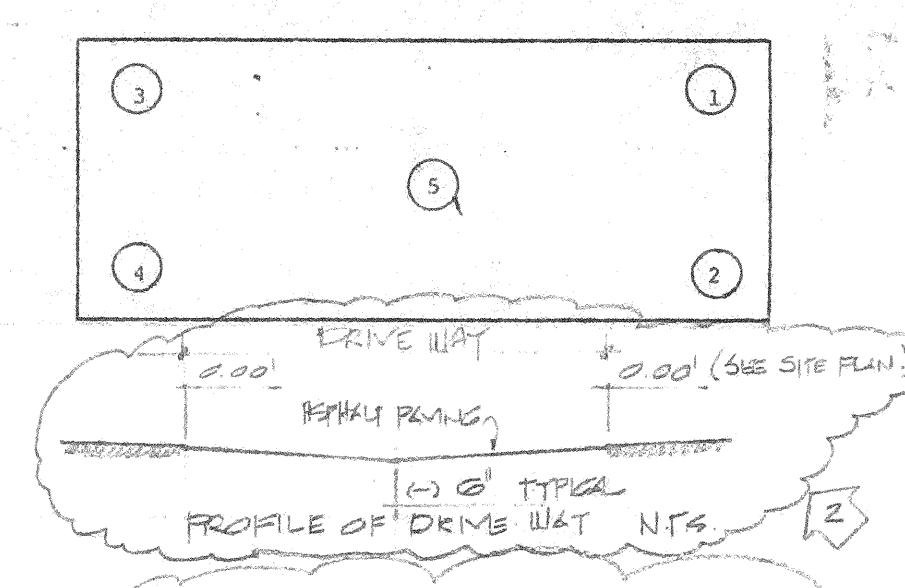
- PLUMBING  
 P 1 PLUMBING PLAN  
 P 2 LABORATORY PLUMBING PLAN & SOIL WASTE & RISE VENT PROGRAM

- ELECTRICAL  
 E 1 ELECTRICAL SITE LIGHTING PLAN & LEGEND  
 E 2 POWER PLAN  
 E 3 LIGHTING PLAN & FIXTURE SCHEDULE  
 E 4 LABORATORY & KITCHEN POWER PLAN



## SOIL BORING LOG

TEST HOLE 1	2	3	4	TEST HOLE 5
0-20' Red Moist Fine Clayey Sand	0-20' Red Moist Fine Clayey Sand	0-20' Red Moist Fine Clayey Sand	0-20' Red Moist Fine Clayey Sand	0-19' Red Moist Fine Clayey Sand
				19'-20' Yellow Moist Fine Clayey Sand



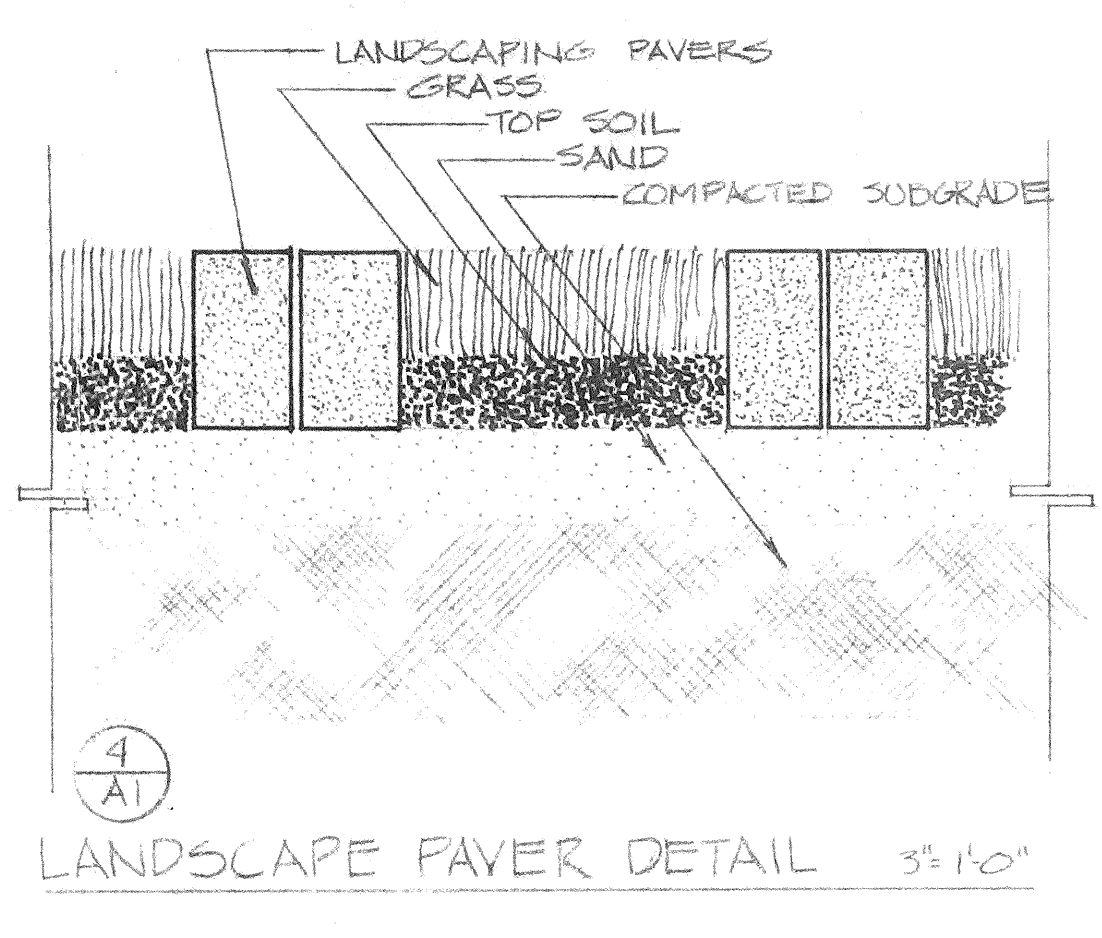
TALLAHASSEE SOIL TECH, INC.  
 GEOTECHNICAL ENGINEERING  
 3045 WEST THARPE STREET  
 TALLAHASSEE, FLORIDA 32303  
 PHONE 576-1281

SIDWALK NOTES:  
 CONTROL JOINTS @ 5' 0" O.C. w/ 1/4" x 1/2" D  
 EXPANSION JOINTS @ 20' 0" O.C. w/ 1/2" x 1/2"  
 w/ BOND BREAK & 1/2" ASPHALTIC BOARD

## SITE PLAN

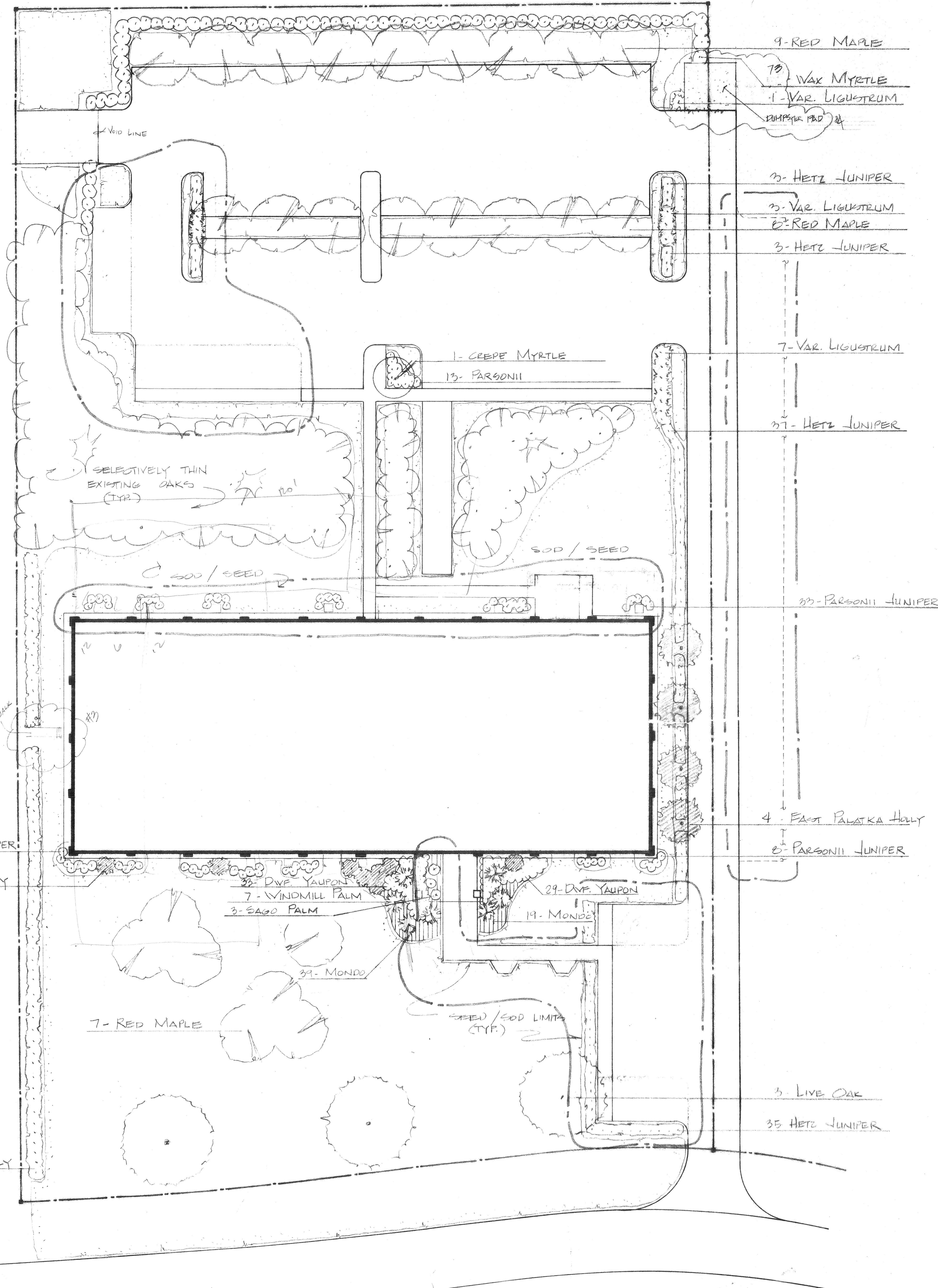
SCALE 1"=20'-0"

- LEGEND TO SITE PLAN
- PROPOSED BUILDING
  - NEW SIDEWALK
  - NEW PAVING
  - EXISTING CONTOUR
  - PROPOSED CONTOUR
  - PARKING SPACES
  - TREE BARRIER
  - REVISION #1





SCALE: 1"=20'



#### PLANT LIST & SPECIFICATIONS

QUANTITY	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS
3	Quercus virginiana	LIVE OAK	8' Ht., 4' Spd., 1 1/4" Cal.
24	Acer rubrum	RED MAPLE	6' Ht., 3' Spd., 1" Cal.
4	Ilex opaca East Palatka	EAST PALATKA HOLLY	6' Ht., 3' Spd., 1" Cal. Min.
1	Lagerstroemia indica	CREPE MYRTLE	6' Ht., 4' Spd., 1" Cal. Min.
78	Myrica cerifera	WAX MYRTLE	3'-4' Ht., 18"-24" Spd.
7	Trachycarpus fortunei	WINDMILL PALM	2'-3' Clear Trunk, 24"-36" Spd., 4 1/2" Cal. Min.
3	Cycas revoluta	SAGO PALM	24" Spread
55	Ilex vomitoria	YAUPOH HOLLY	1 Gal.
22	Ilex vomitoria Nana	DWARF YAUPOH HOLLY	1 Gal.
14	Ligustrum sinensis Variegated	VARIEGATED LIGUSTRUM	1 Gal.
8	Ilex cornuta Burfordi	DWARF BURFORD HOLLY	24" Ht., 24" Spd.
80	Juniperus chinensis Hetz	HETZ JUNIPER	1 Gal.
80	Juniperus chinensis Parsonii	PARSONII JUNIPER	1 Gal.
58	Liriope muscaki	MARY BY GRASS	1 Gal. (PLANT)
4,500 (S.F.)	Eremochloa ophiuroides	CENTPEDE SOD	Solid Sod. Exact quantity of sod will vary; provide unit cost for bidding.
45,000 (S.F.)	Eremochloa ophiuroides	CENTPEDE SEED	Seed and mulch as per Florida DOT specifications w/quick germinator. Exact quantity will vary; provide unit cost for bidding.

Note: Quantities shown on the plan shall take precedence over quantities in schedule.

#### LANDSCAPE NOTES

- All plant material shall meet the standards of Florida No. 1 or better as set forth by the latest edition of Grades and Standards for Nursery Plants, published by the Florida Department of Agriculture.
- Install sod within ten feet (10') of building; and for two feet (2') along drives walks and fences. Seed the remainder of the areas indicated for sod/seed, inclusive of all disturbed areas of the site.
- Mulch all beds and around all trees with 3" (three inches) pine straw mulch.
- Holes to receive plants shall be excavated at least 1 foot greater than the diameter of the plant ball.
- Planting backfill shall be mixed on site by using 1/2 native soils and 1/2 loamy sand topsoil.
- Access to irrigation water shall be provided to all planting areas. PLANTING LAVA SPRINKLER FOR LANDSCAPING
- The Owner is responsible for the supervision and completion of this plan; all special conditions that apply; for compliance with all Federal, State, City and County laws applicable; and may not occupy facility until final County Environmental Inspection and approval.

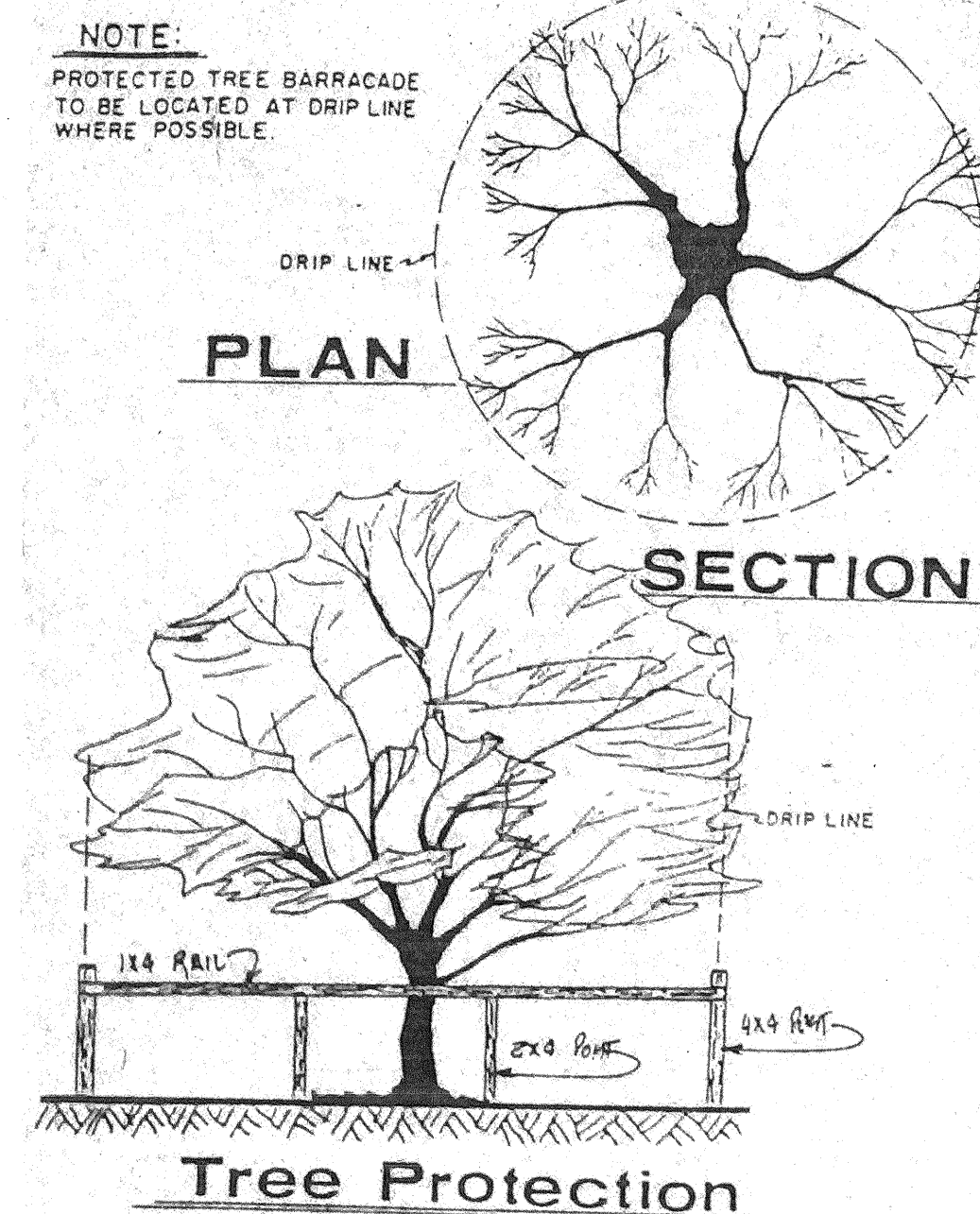
Sq. Ft. of Lot: 159,201	Sq. Ft. of Interior Landscape Area: 22,050
Sq. Ft. of Building: 25,535	Sq. Ft. of Vehicle Use Area: 86 Spaces
Zoning of Project: Innovation Park	
Proposed Use of Property: Commercial	

#### TREE PROTECTION NOTES

The contractor shall construct tree protection barriers to protect and preserve all existing oak and other trees shown on site and landscape plan. Barriers shall be constructed as per detail on this page, or equal, to protect a minimum of 75% of tree dripline.

The following operations are not allowed within the dripline of trees to be protected:

- Grade changes.
- Mechanical excavation.
- Stockpiling of material or equipment.
- Driving of vehicles.



smith-gilchrist, p.a.

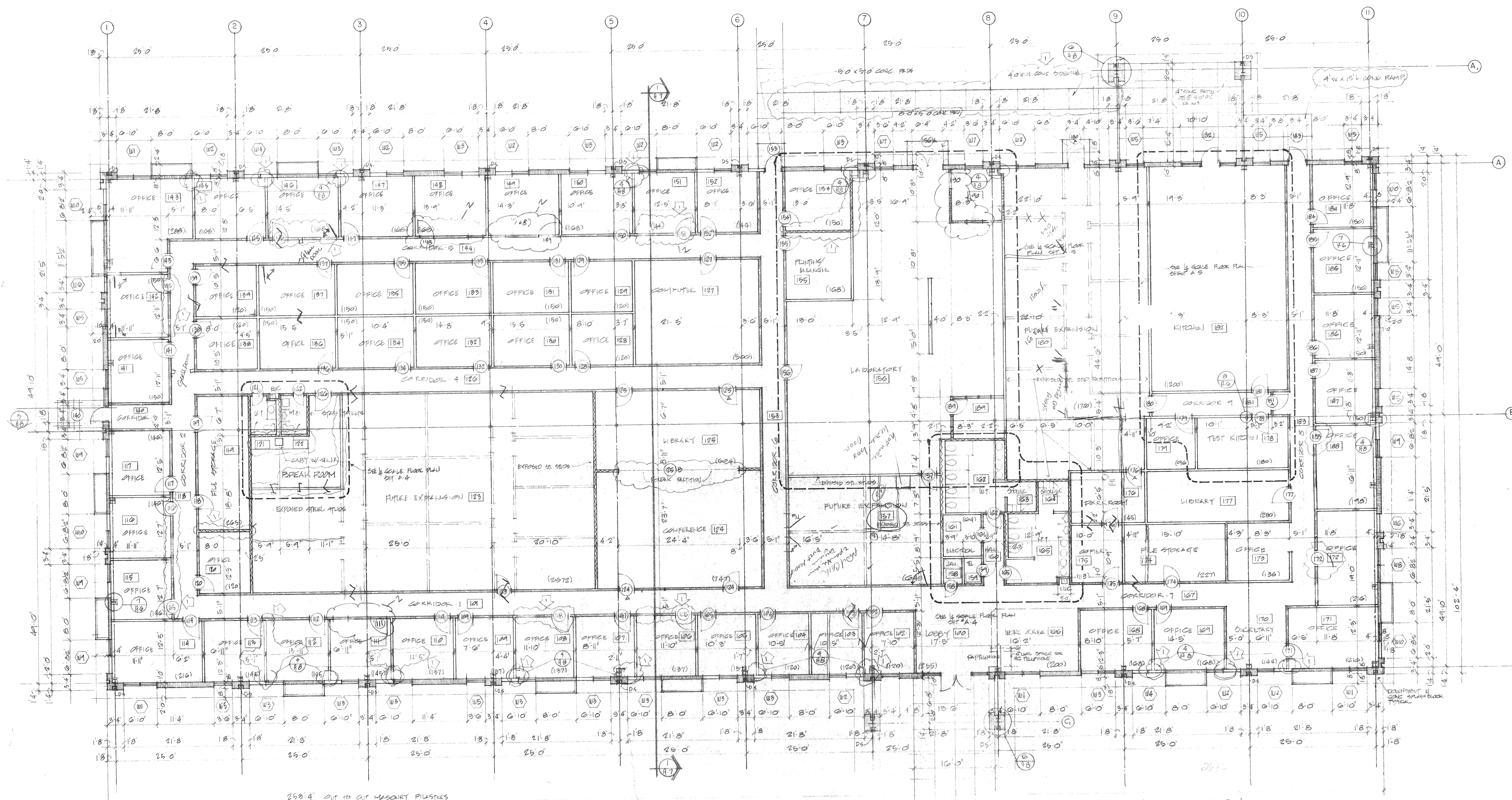
1001 656 2224

date: 11-17-06  
proj. no.: 22-177  
drawn: J. Smith  
check: J. Smith

PROPOSED OFFICES FOR DEPARTMENT OF NATURAL RESOURCES  
DIVISION AND MARKETING/EXTENSION SERVICES

CLEMONS RUTHERFORD  
& ASSOCIATES, INC.  
ARCHITECTS & PLANNERS  
TALLAHASSEE, FLORIDA





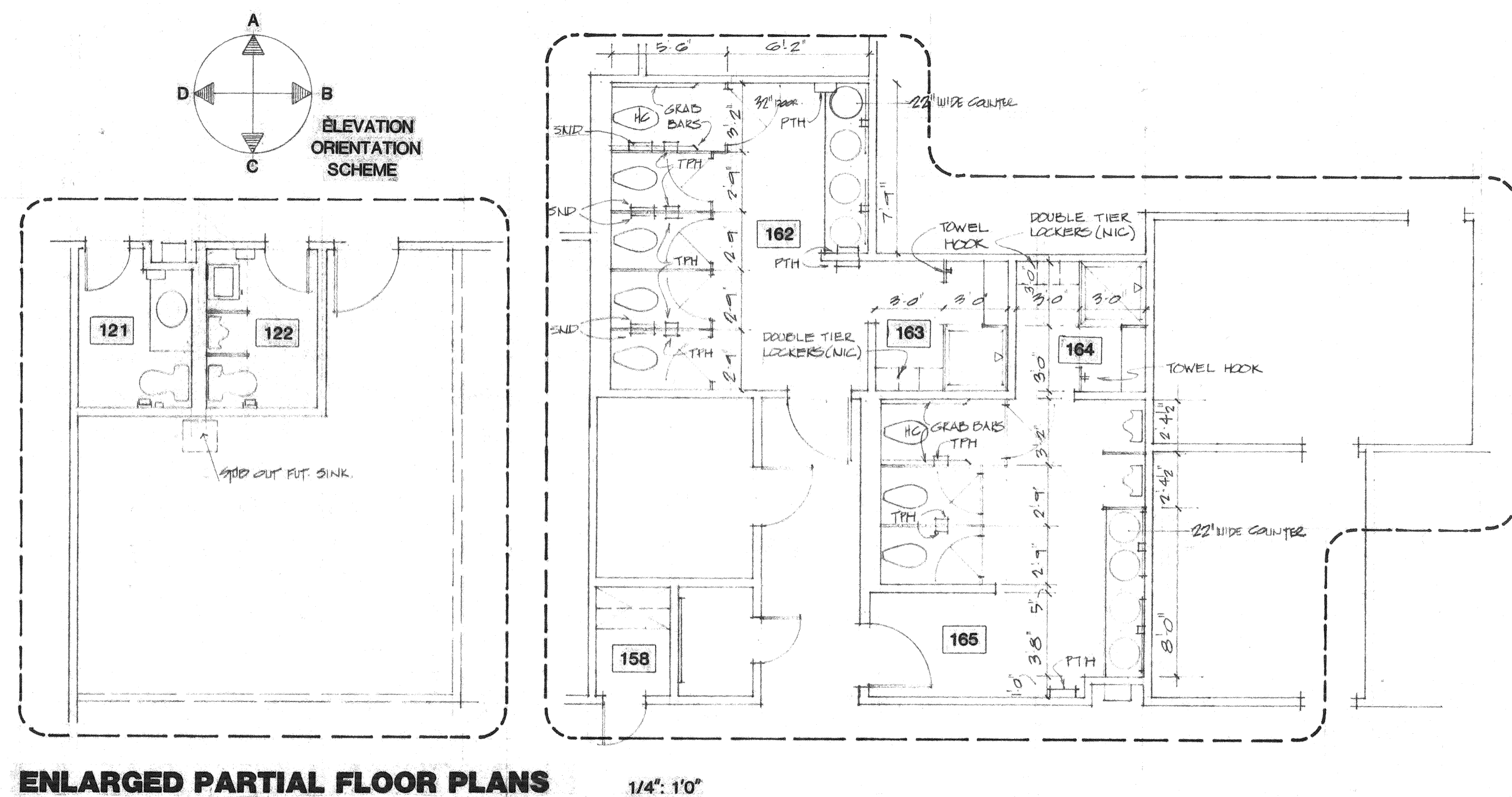
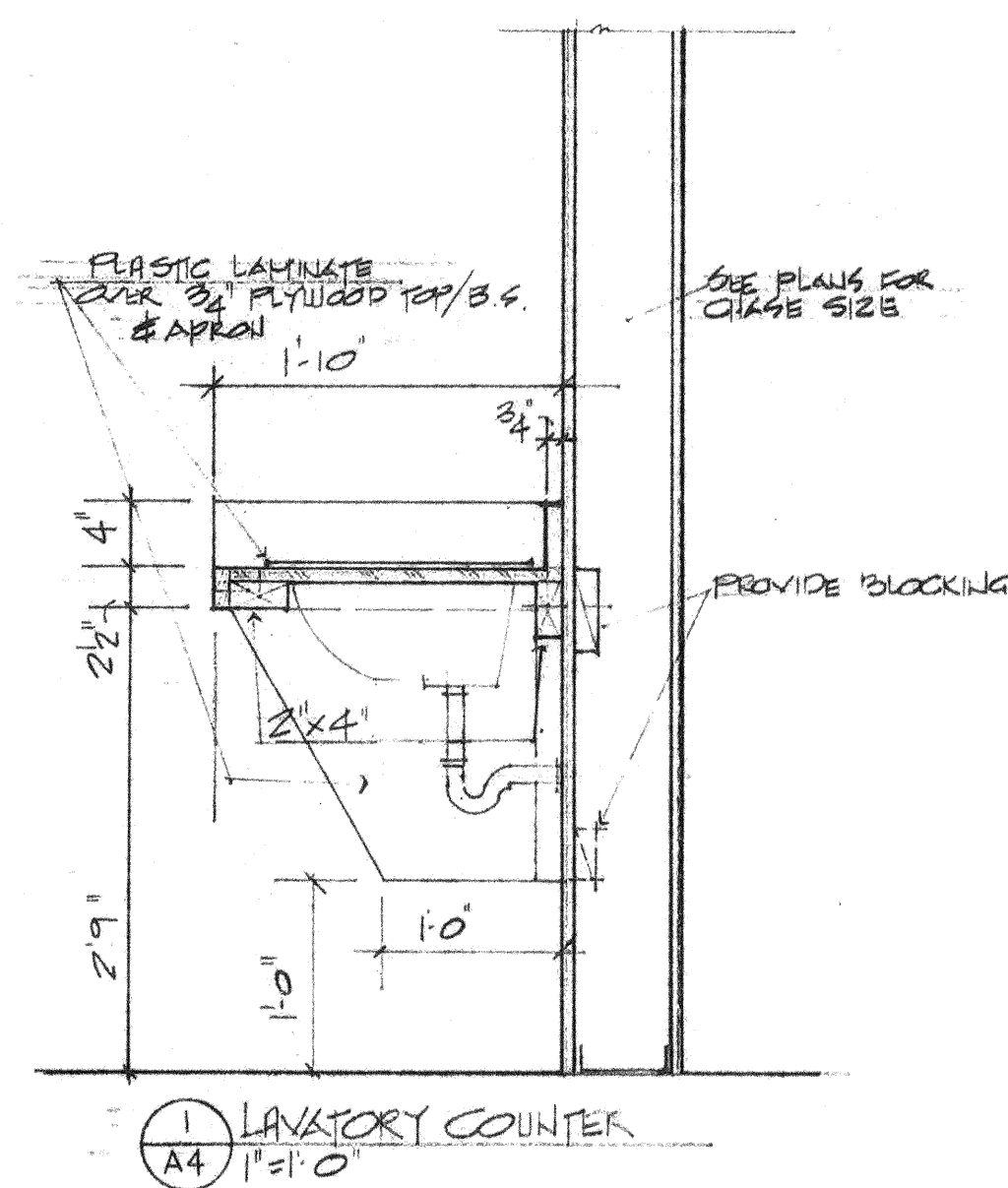
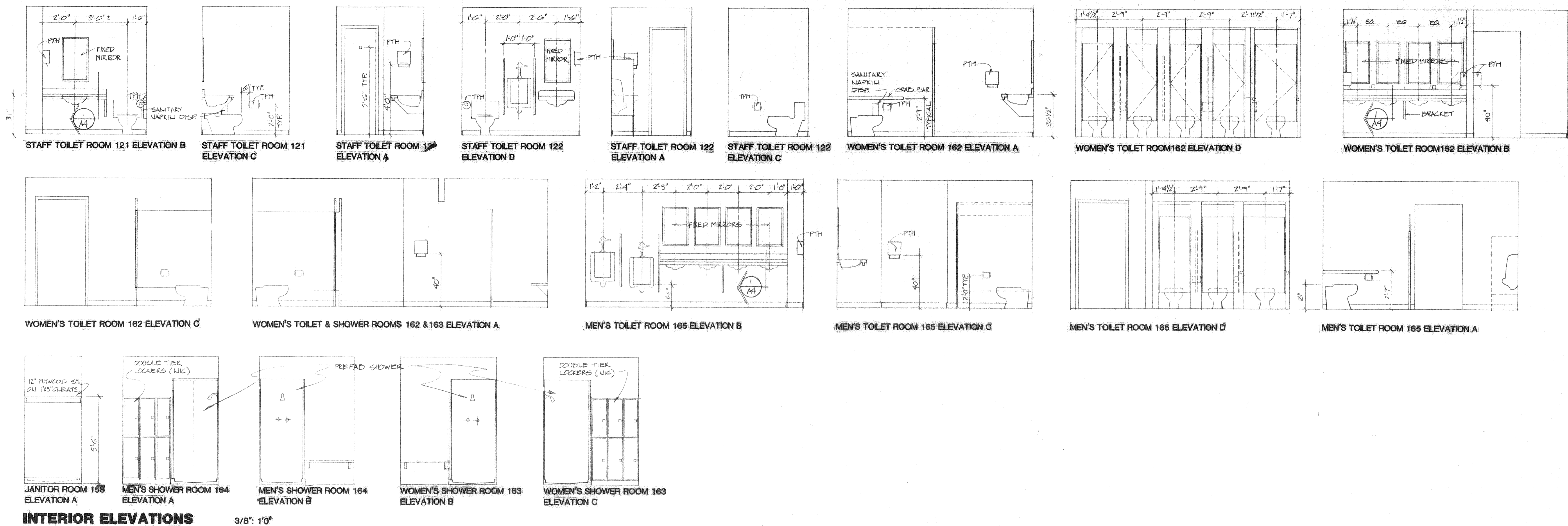
## FLOOR PLAN

SCALE 1/8" : 1'-0"

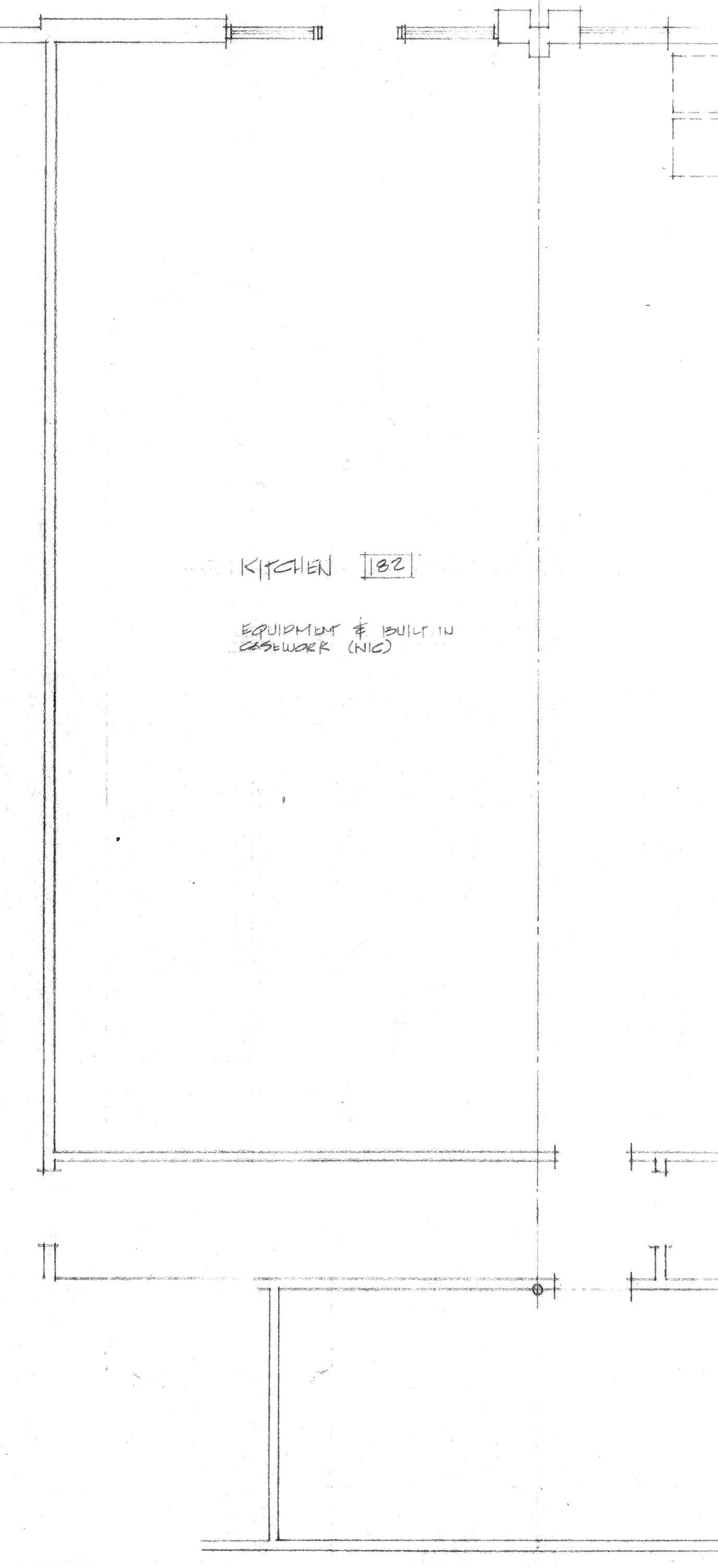
1. <u>WIRKUNG</u> <u>BEI</u> <u>FLUSS</u> <u>PLAN</u>	
2. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>BUCKEL</u> <u>PARABOL</u>	
3. <u>WIRKUNG</u> <u>BEI</u> <u>1.18</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
4. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOLISCH</u> <u>GEW.</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
5. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
6. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
7. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>BUCKEL</u> <u>PARABOL</u>	
8. <u>WIRKUNG</u> <u>BEI</u> <u>1.18</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
9. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOLISCH</u> <u>GEW.</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
10. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
11. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
12. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>BUCKEL</u> <u>PARABOL</u>	
13. <u>WIRKUNG</u> <u>BEI</u> <u>1.18</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
14. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOLISCH</u> <u>GEW.</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
15. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
16. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
17. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>BUCKEL</u> <u>PARABOL</u>	
18. <u>WIRKUNG</u> <u>BEI</u> <u>1.18</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
19. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOLISCH</u> <u>GEW.</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
20. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
21. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
22. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>BUCKEL</u> <u>PARABOL</u>	
23. <u>WIRKUNG</u> <u>BEI</u> <u>1.18</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
24. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOLISCH</u> <u>GEW.</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
25. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
26. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
27. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>BUCKEL</u> <u>PARABOL</u>	
28. <u>WIRKUNG</u> <u>BEI</u> <u>1.18</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
29. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOLISCH</u> <u>GEW.</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
30. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
31. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
32. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>BUCKEL</u> <u>PARABOL</u>	
33. <u>WIRKUNG</u> <u>BEI</u> <u>1.18</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
34. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOLISCH</u> <u>GEW.</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
35. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
36. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
37. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>BUCKEL</u> <u>PARABOL</u>	
38. <u>WIRKUNG</u> <u>BEI</u> <u>1.18</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
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40. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
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42. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>BUCKEL</u> <u>PARABOL</u>	
43. <u>WIRKUNG</u> <u>BEI</u> <u>1.18</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
44. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOLISCH</u> <u>GEW.</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
45. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
46. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
47. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>BUCKEL</u> <u>PARABOL</u>	
48. <u>WIRKUNG</u> <u>BEI</u> <u>1.18</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
49. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOLISCH</u> <u>GEW.</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
50. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
51. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
52. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>BUCKEL</u> <u>PARABOL</u>	
53. <u>WIRKUNG</u> <u>BEI</u> <u>1.18</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
54. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOLISCH</u> <u>GEW.</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
55. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
56. <u>WIRKUNG</u> <u>BEI</u> <u>PARABOL</u> <u>GEW.</u> <u>ACB</u>	
57. <u>WIRKUNG</u> <u>BEI</u> <u>STATIONÄRE</u> <u>BUCKEL</u> <u>PARABOL</u>	
58. <u>WIRKUNG</u> <u>BEI</u> <u>1.18</u> <u>PARABOL</u> <u>GEW.</u>	

NOPE: INTERIOR WALL CONSTRUCTION  
DETAILS: SHEET #A-7





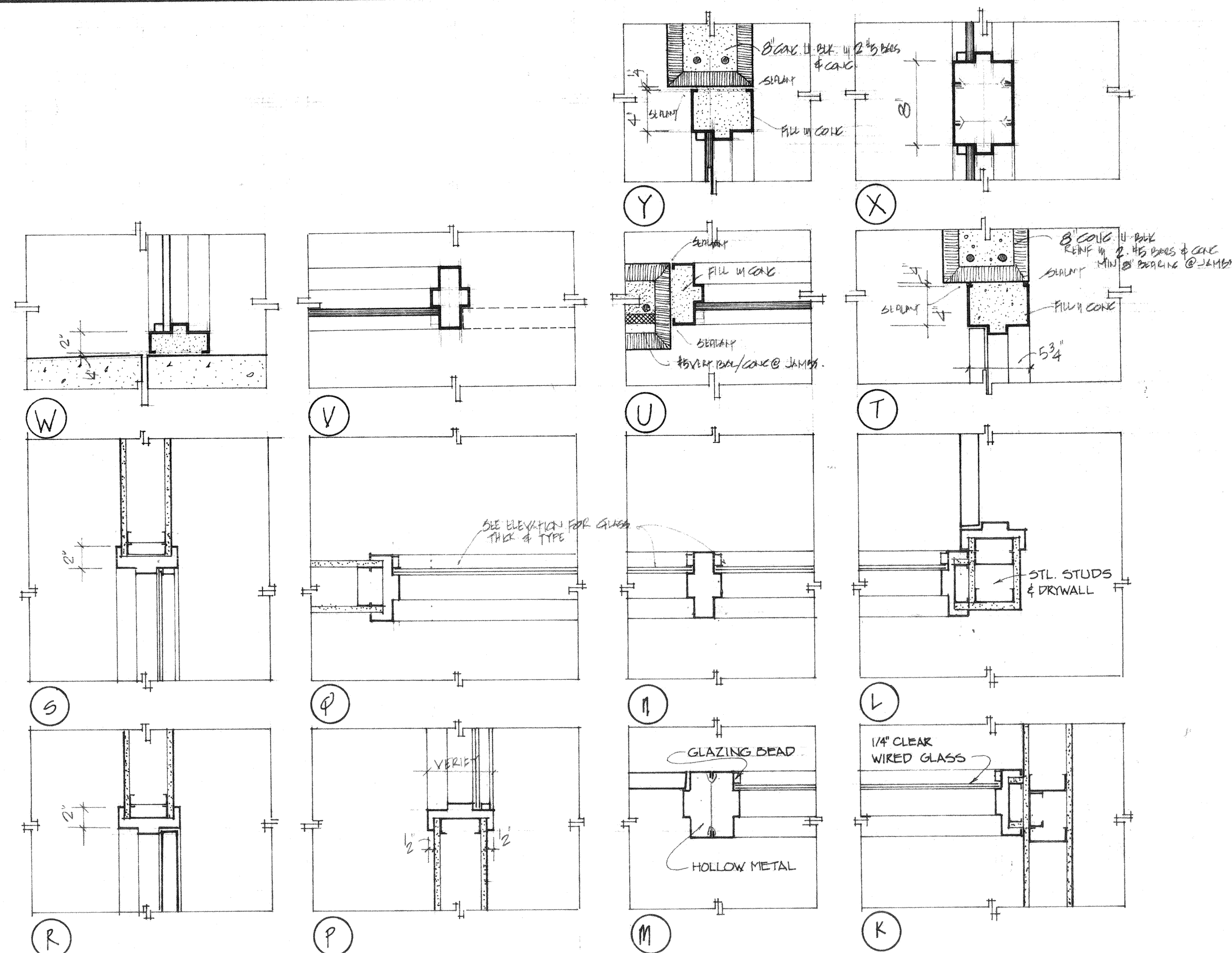




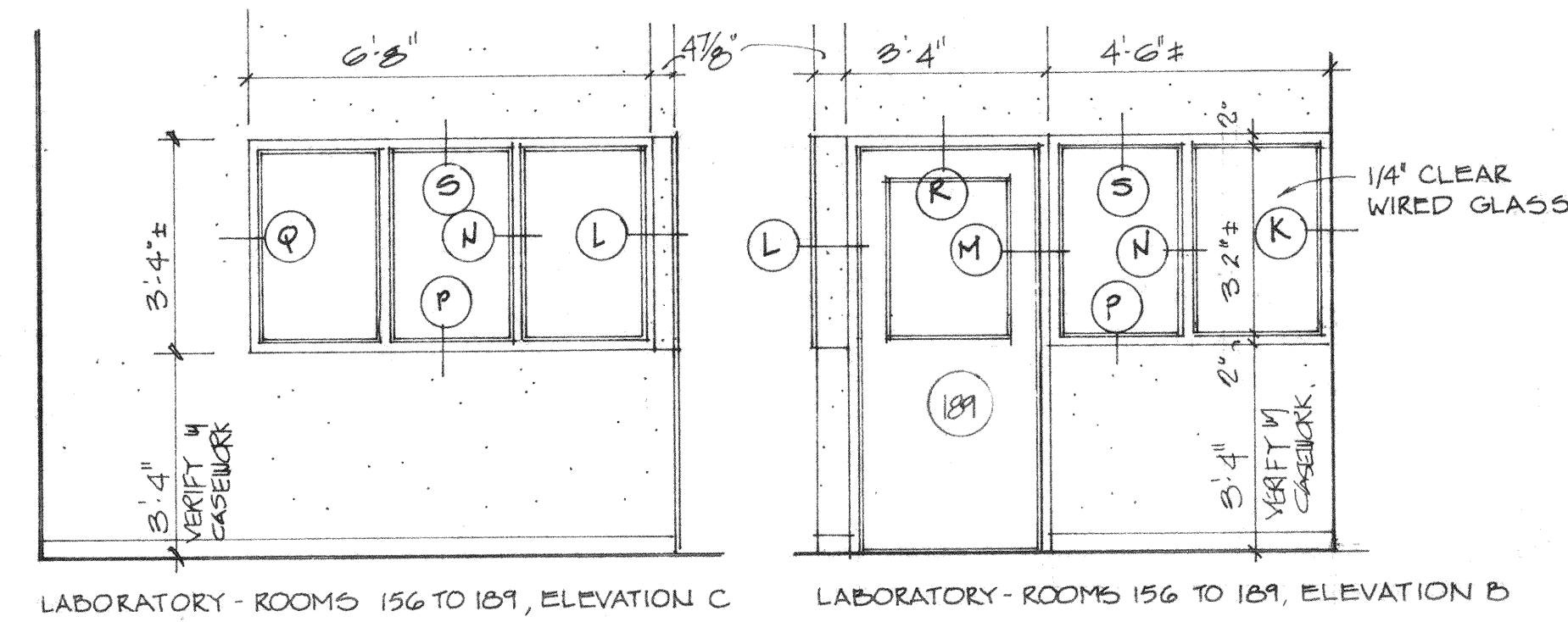
ENLARGED FLOOR PLAN - AREAS #173 & #182 (FIELD USE ONLY)  
SCALE 1/4" = 1'-0"

$$\begin{array}{r} 4.75 \times 4 = 27 \\ 11 \times 4 = 44 \\ \hline 1188 \end{array}$$



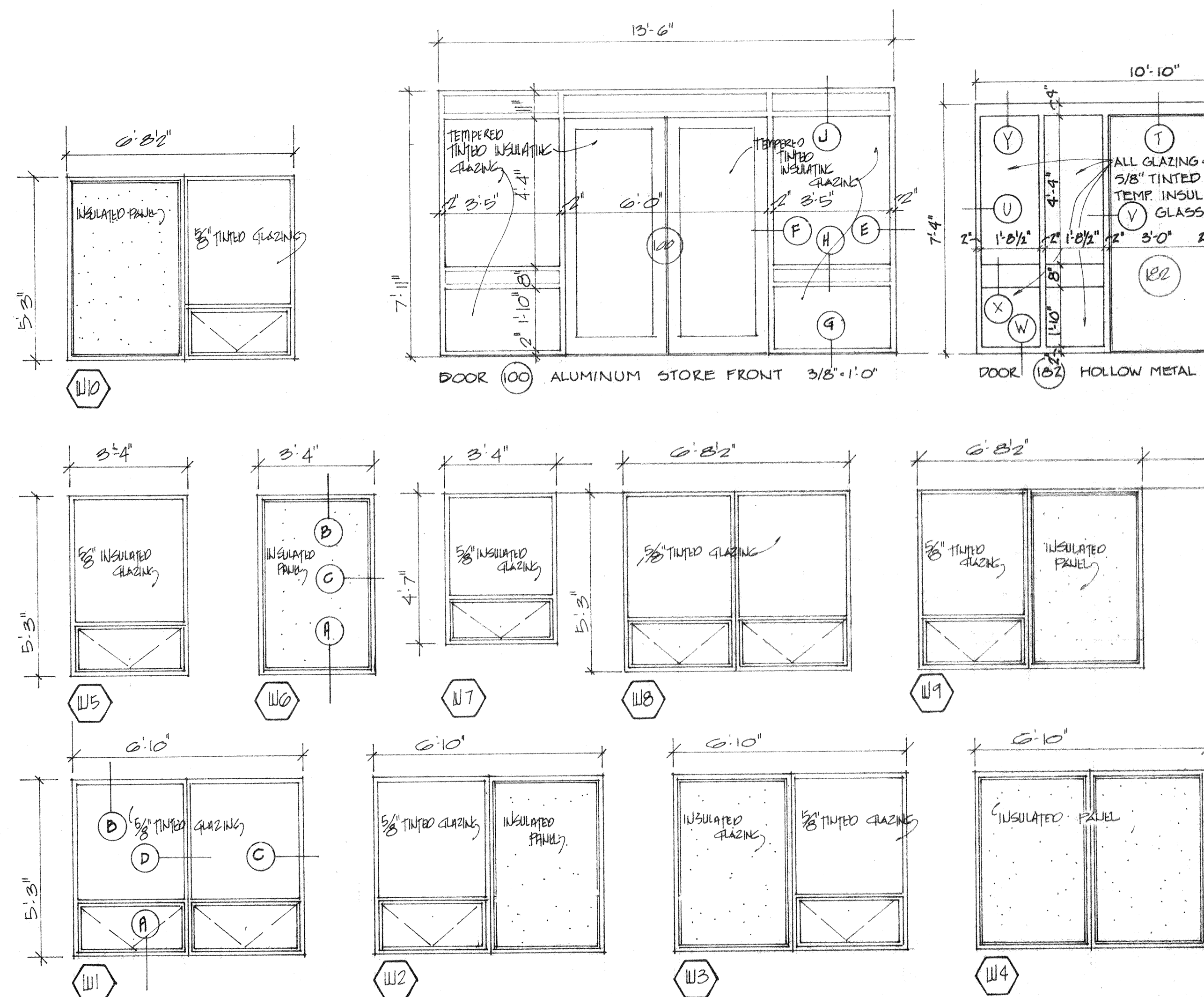


TYPICAL DETAILS - VIEW WINDOWS 1/2" = 1'-0"

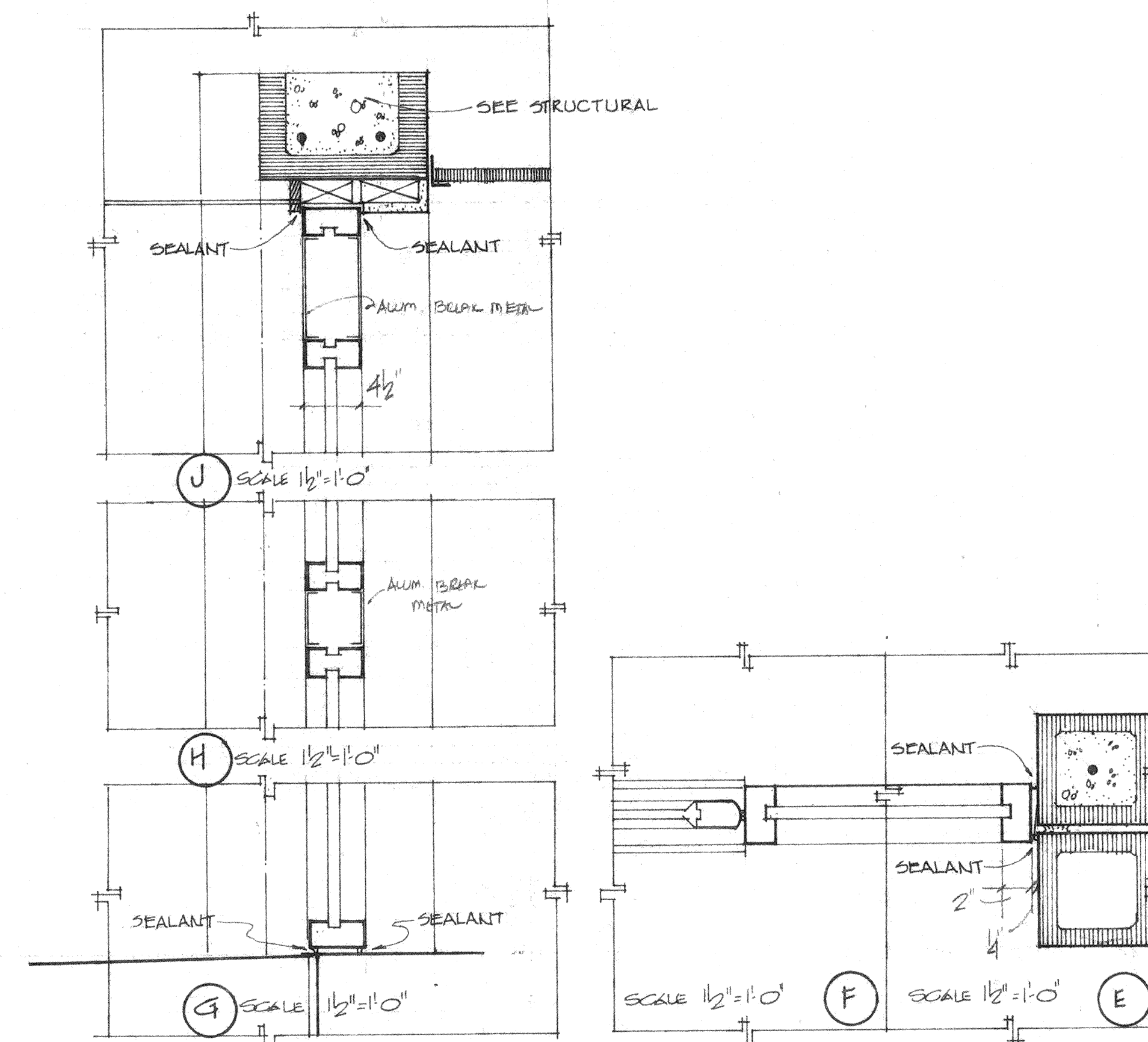


LABORATORY - ROOMS 156 TO 161, ELEVATION C

LABORATORY - ROOMS 156 TO 161, ELEVATION D



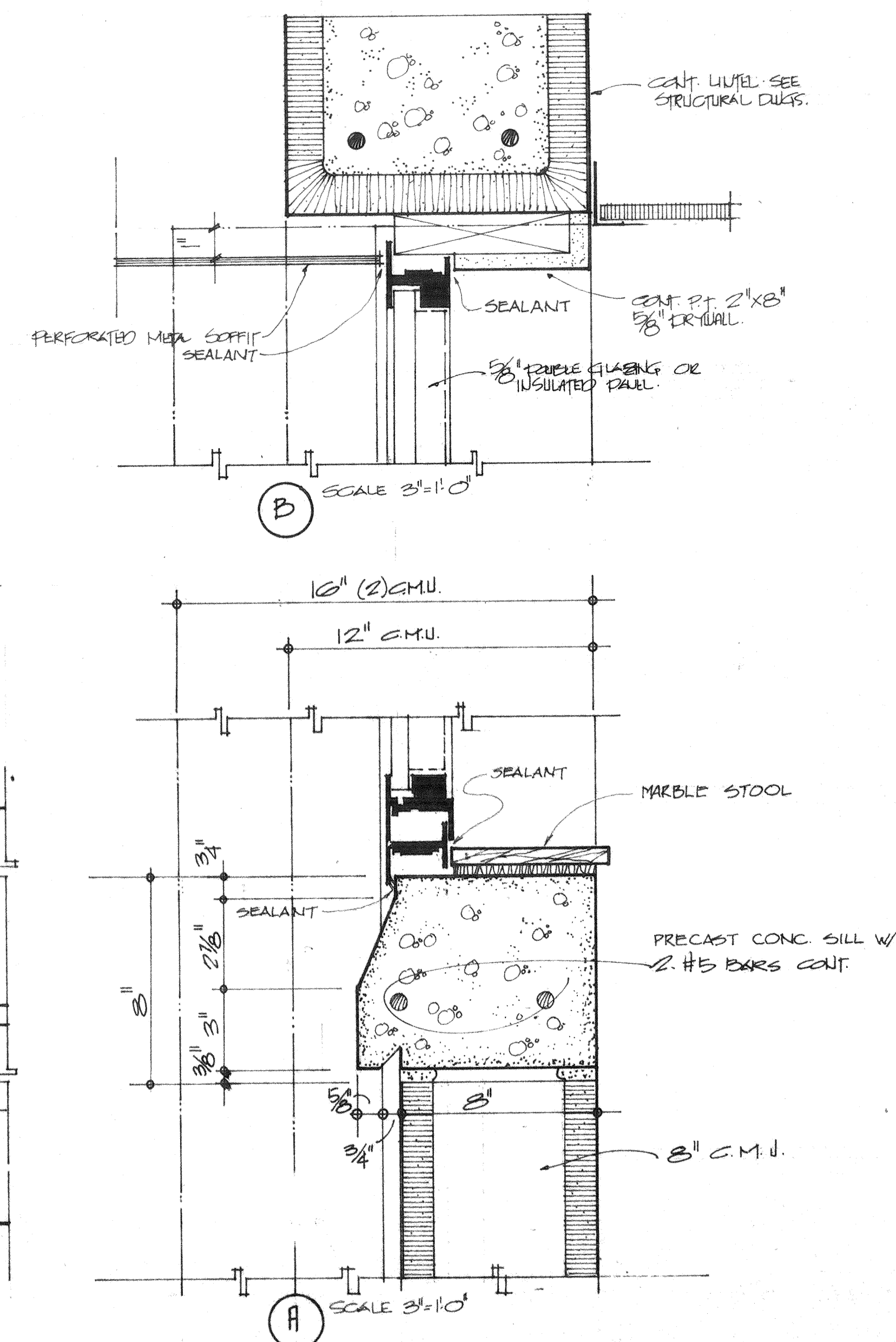
WINDOW TYPES 3/8" = 1'-0"



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

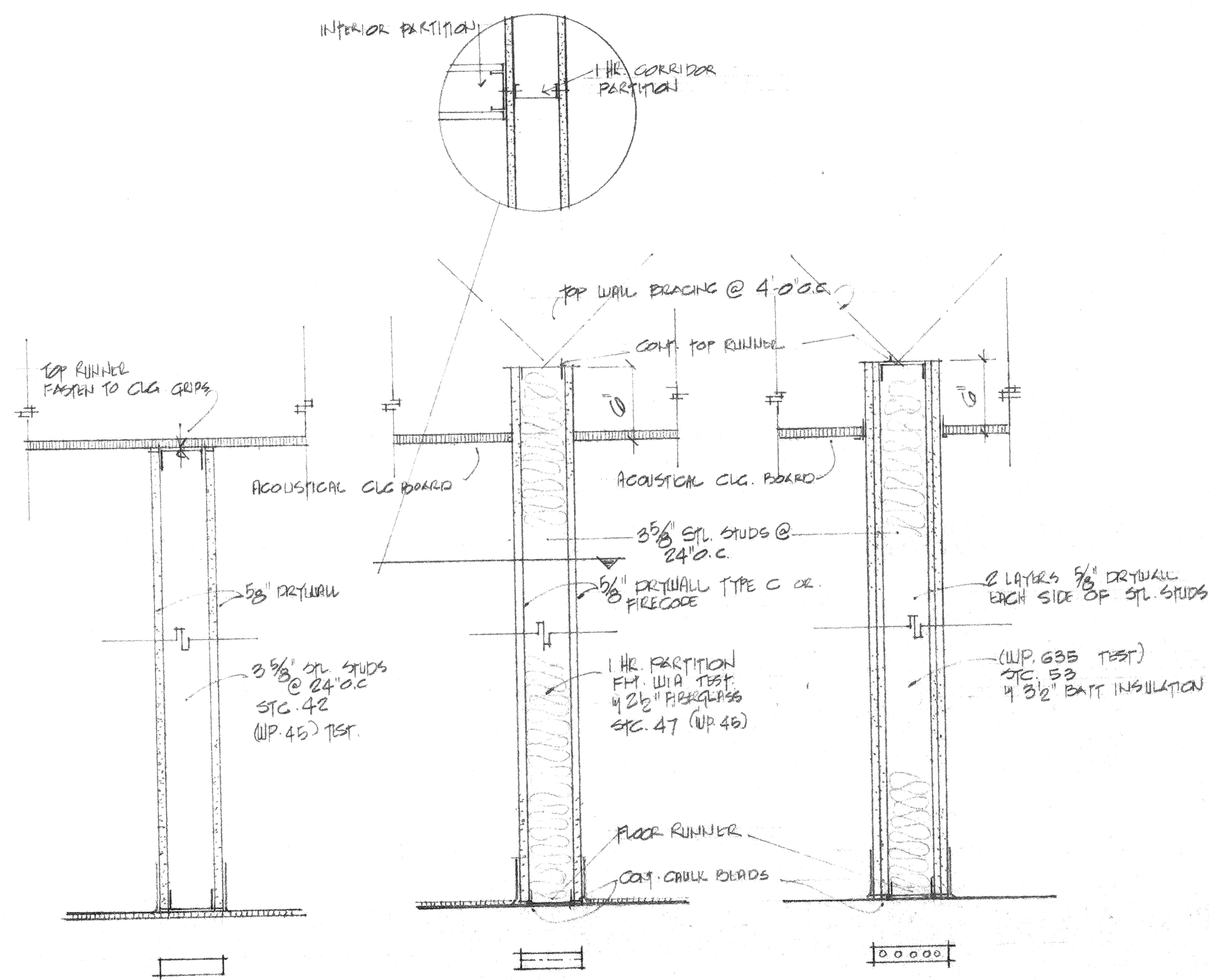
C SCALE 3/8" = 1'-0"

TYPICAL WINDOW DETAILS

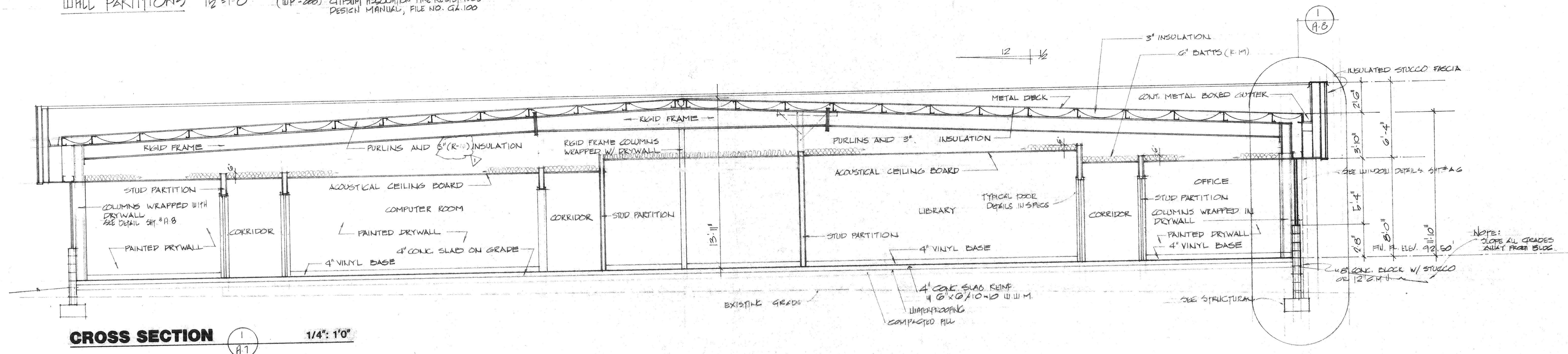


A SCALE 3/8" = 1'-0"



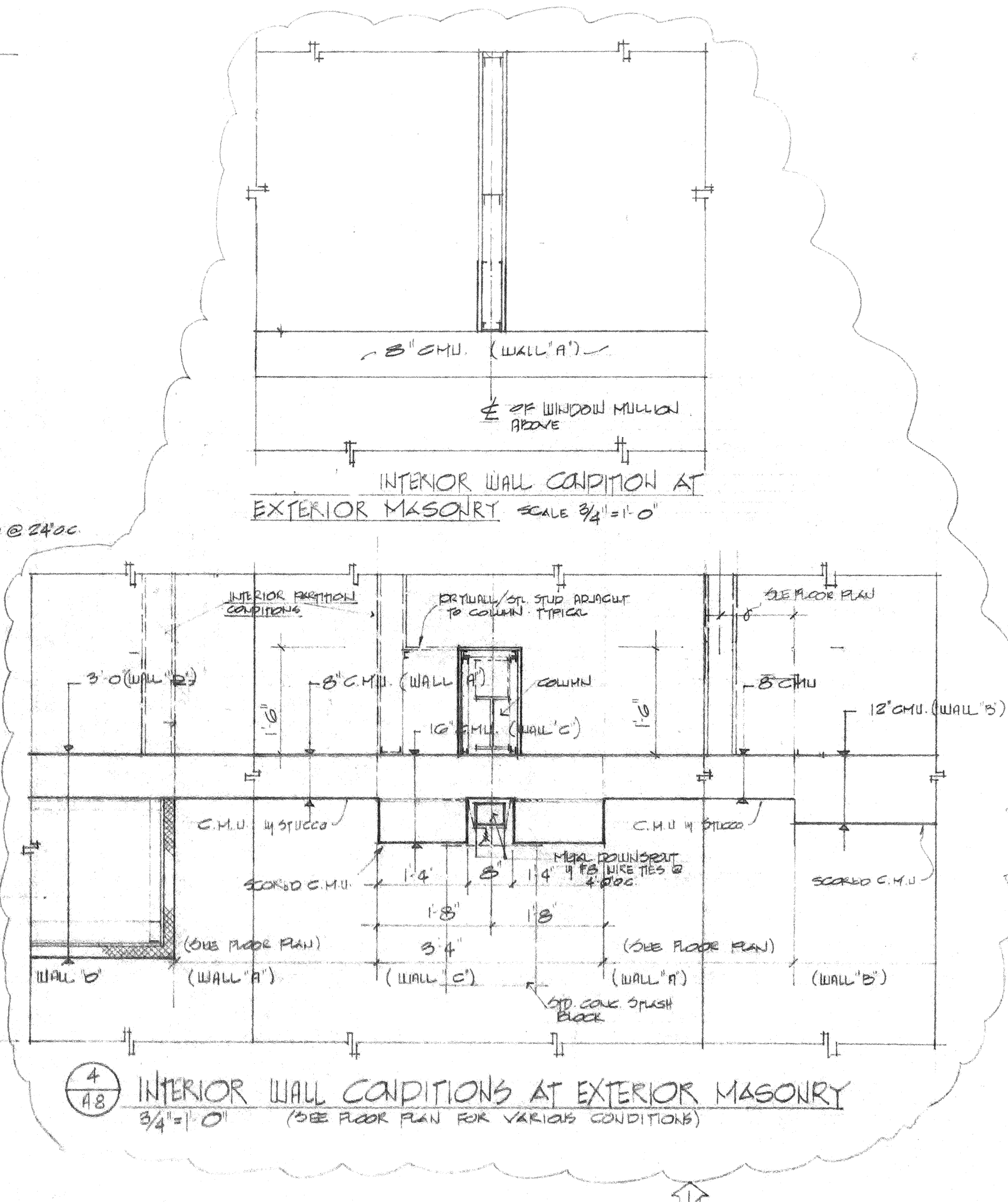
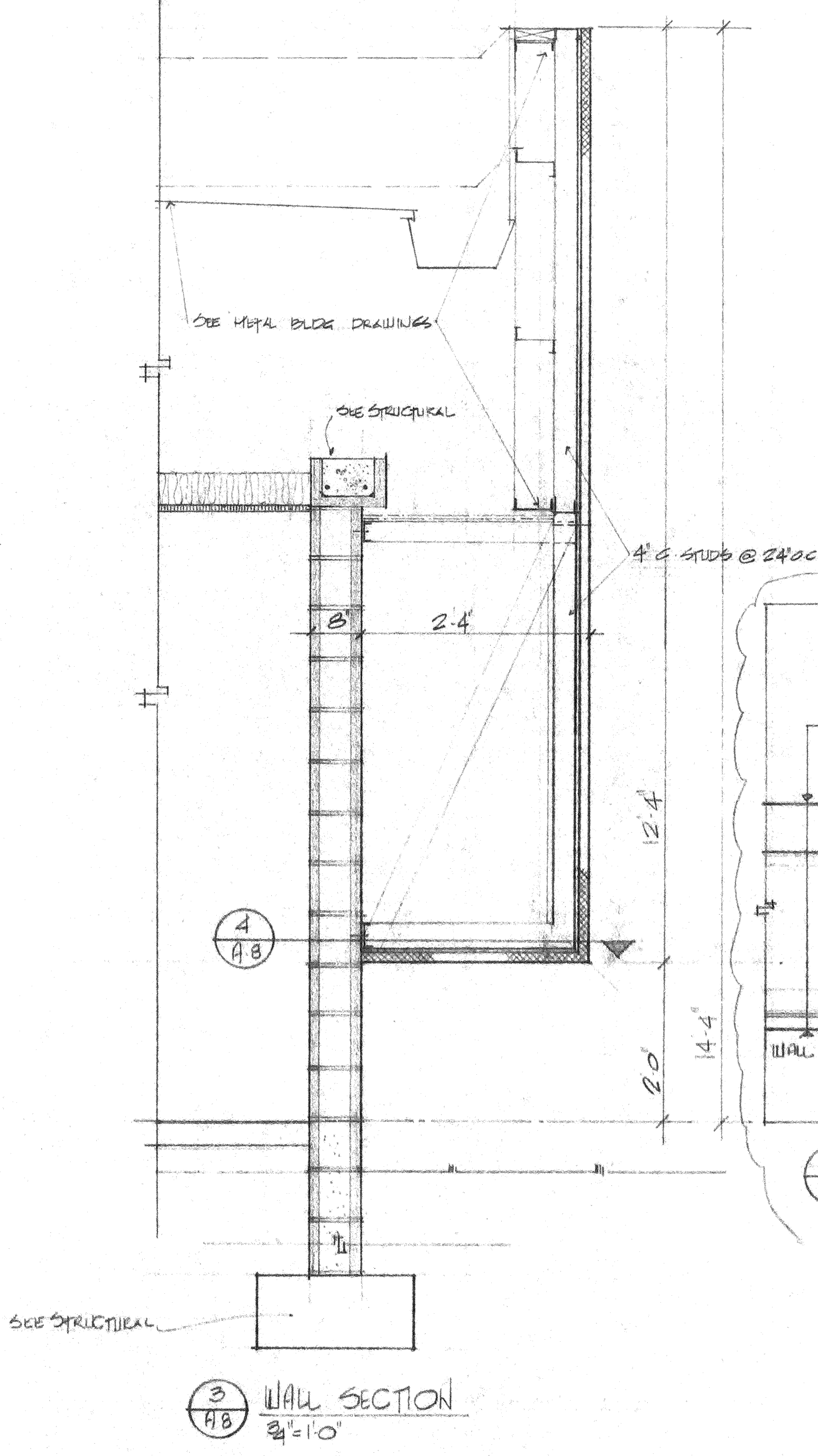
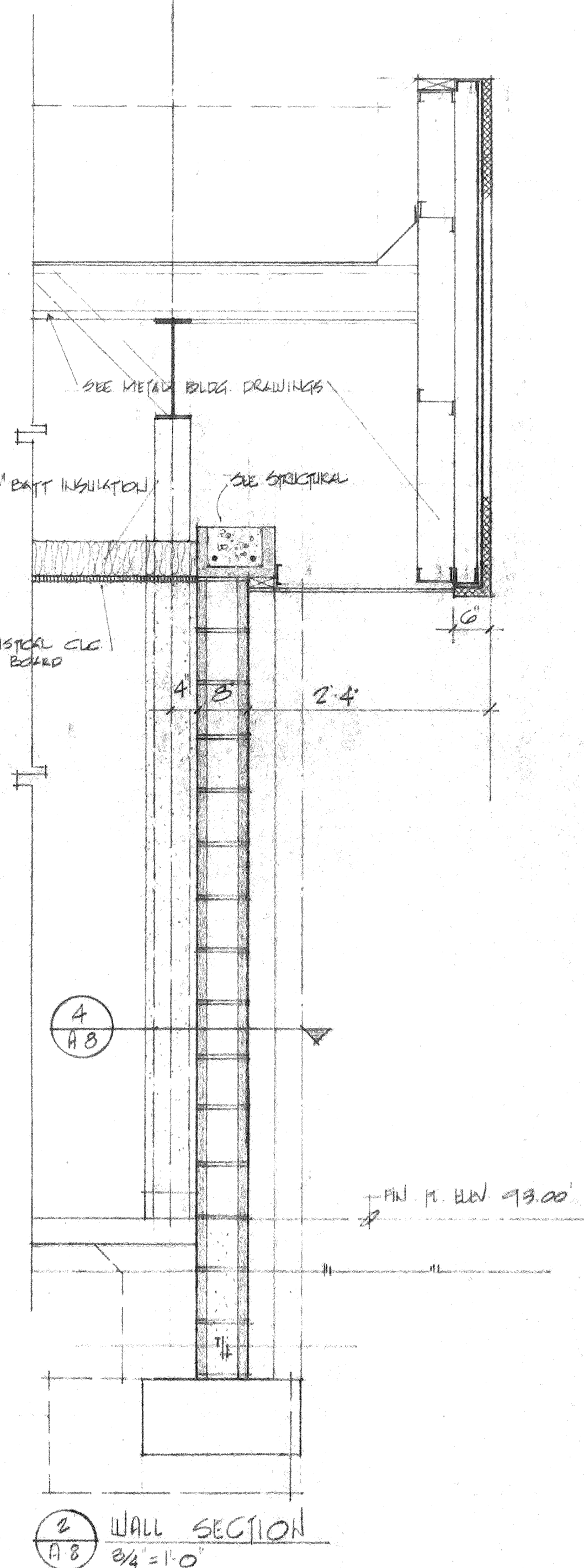
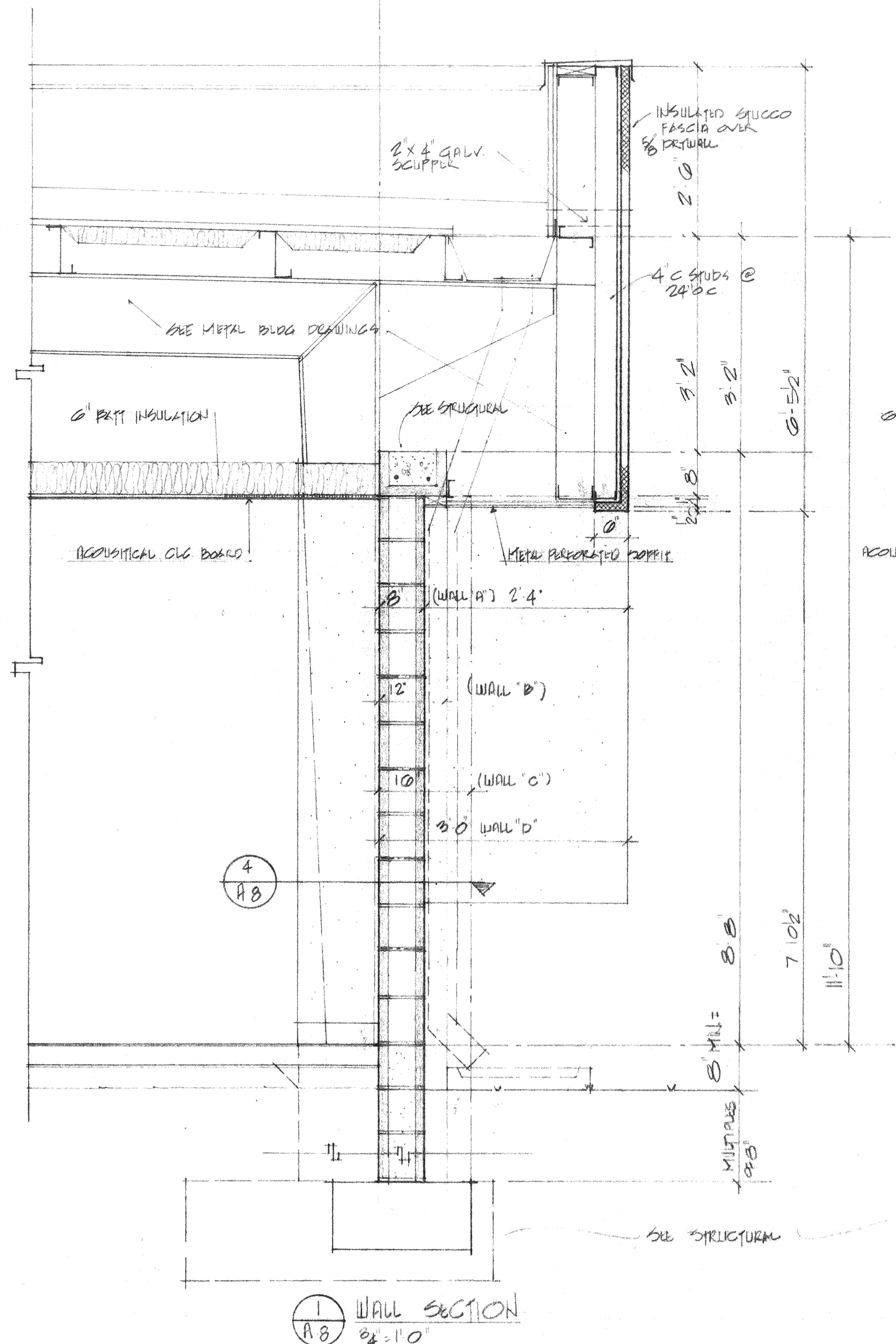
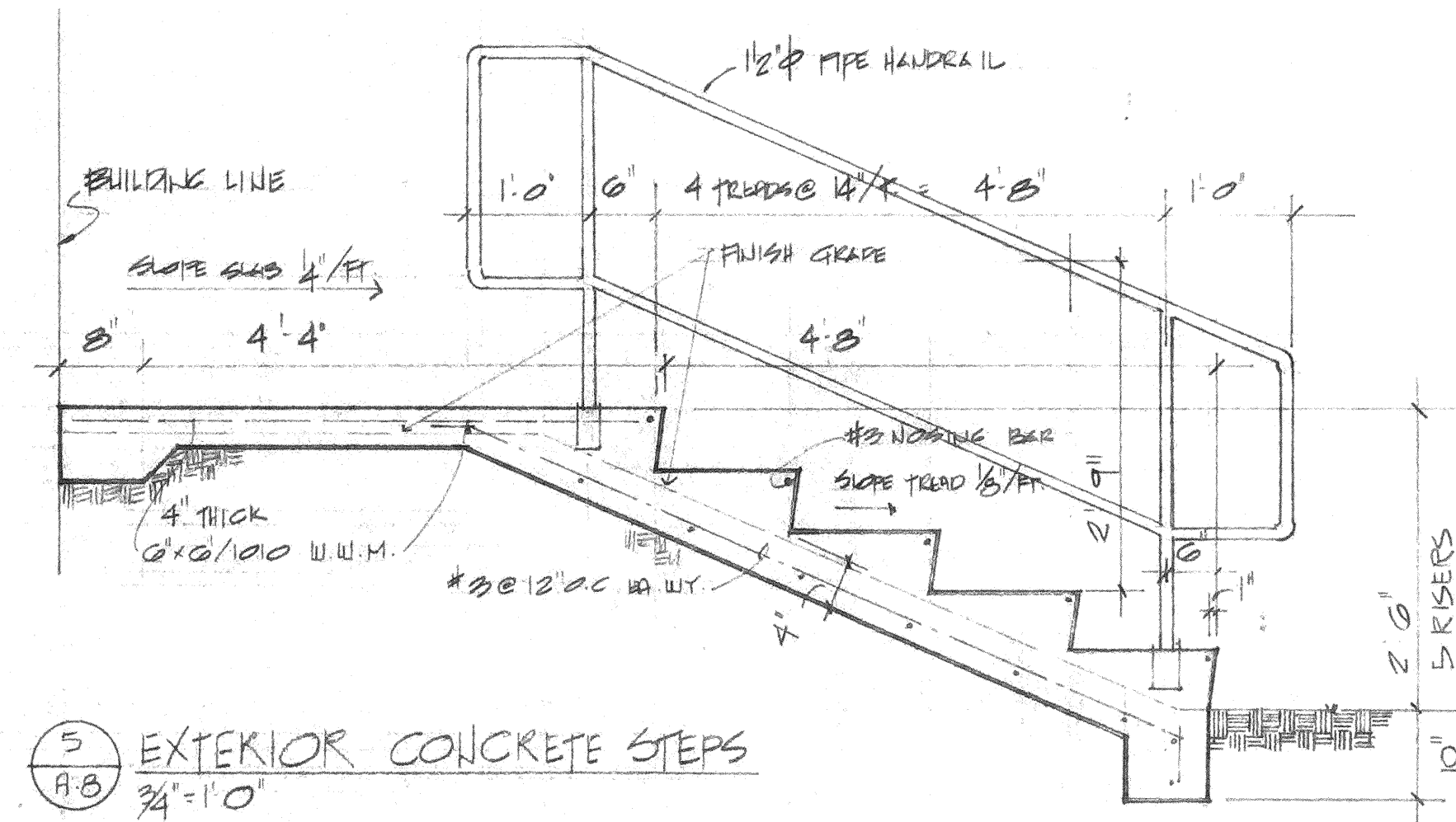
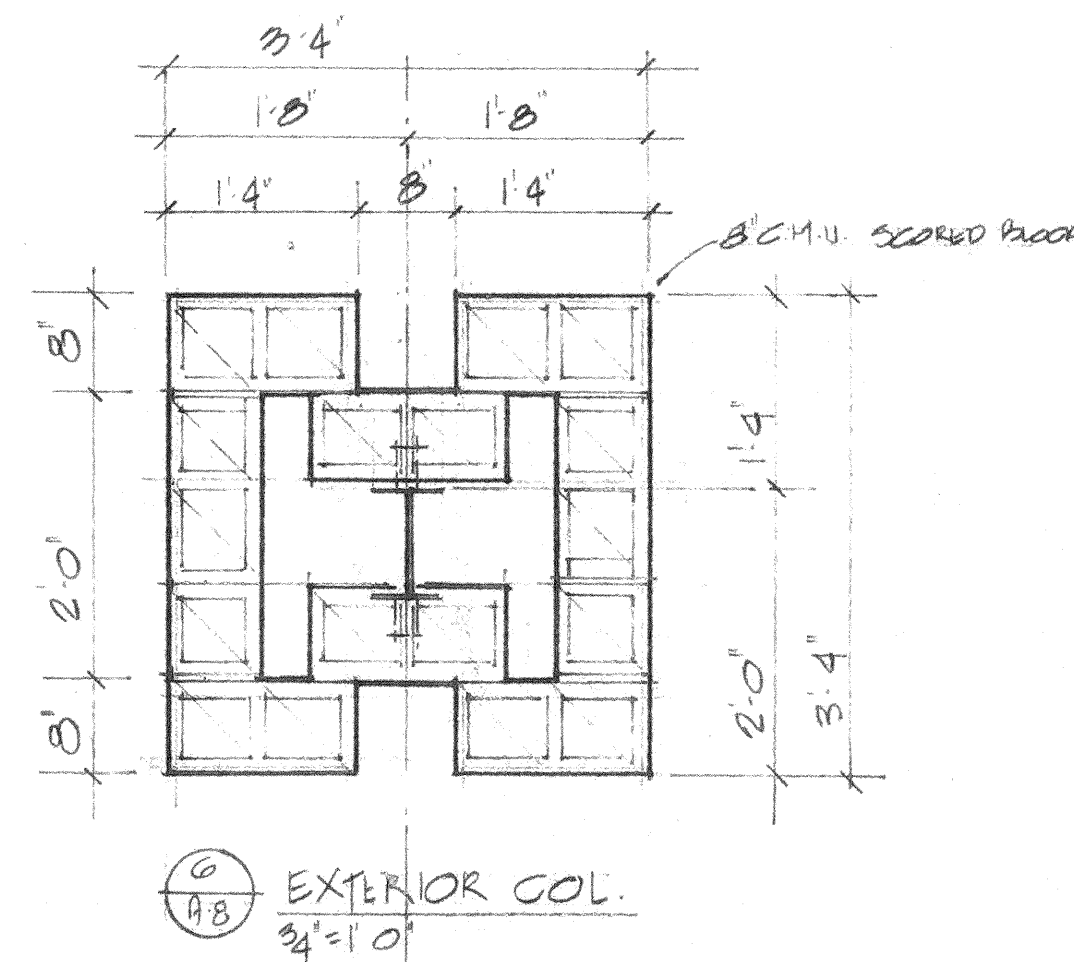
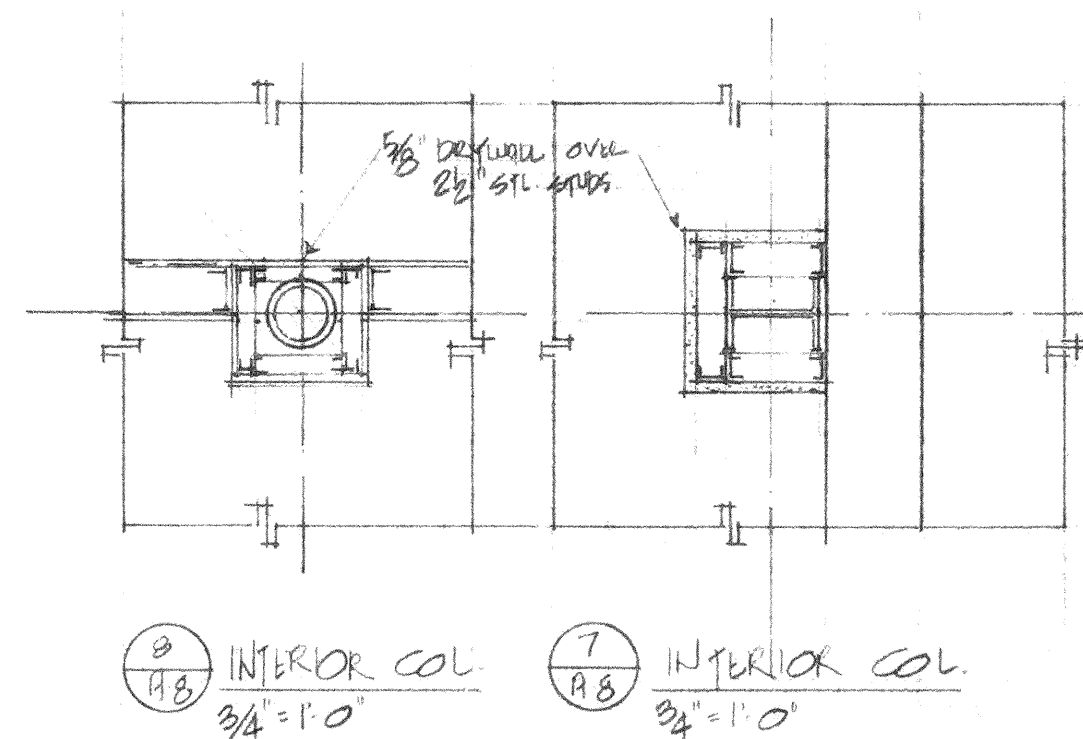


NOTE: SEE FLOOR PLAN SHEET A-3 TO KEY OF PARTITION LEGEND  
 WALL PARTITIONS 1/2"=1'-0" (W.P.-200) GYPSUM ASSOCIATION FIRE RESISTANCE DESIGN MANUAL, FILE NO. GA-100



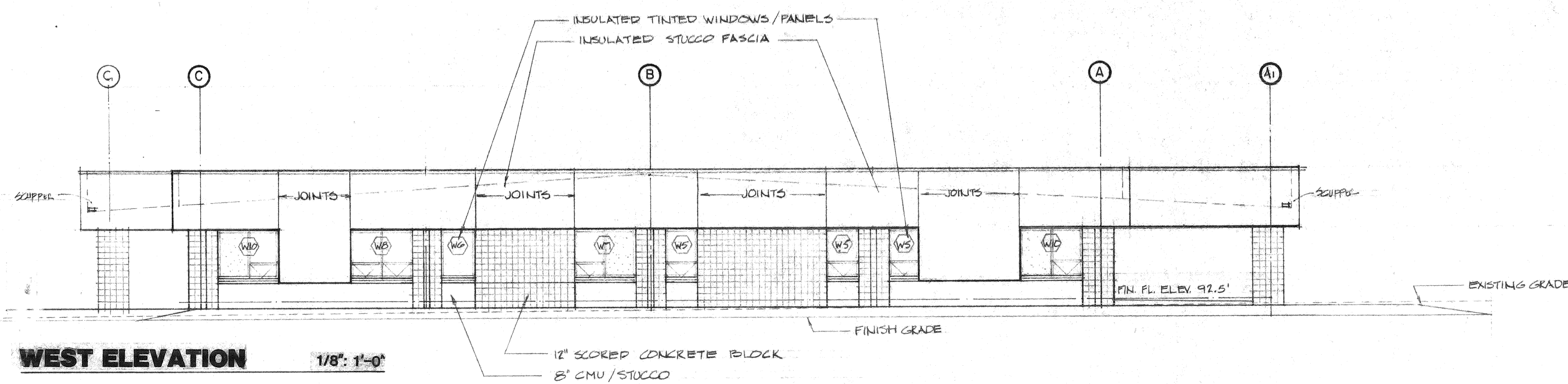
**CROSS SECTION** 1/4"=1'-0"



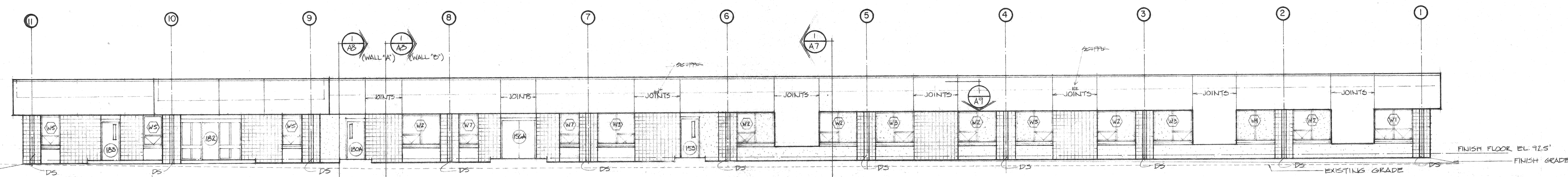


ADDENDUM 'A'

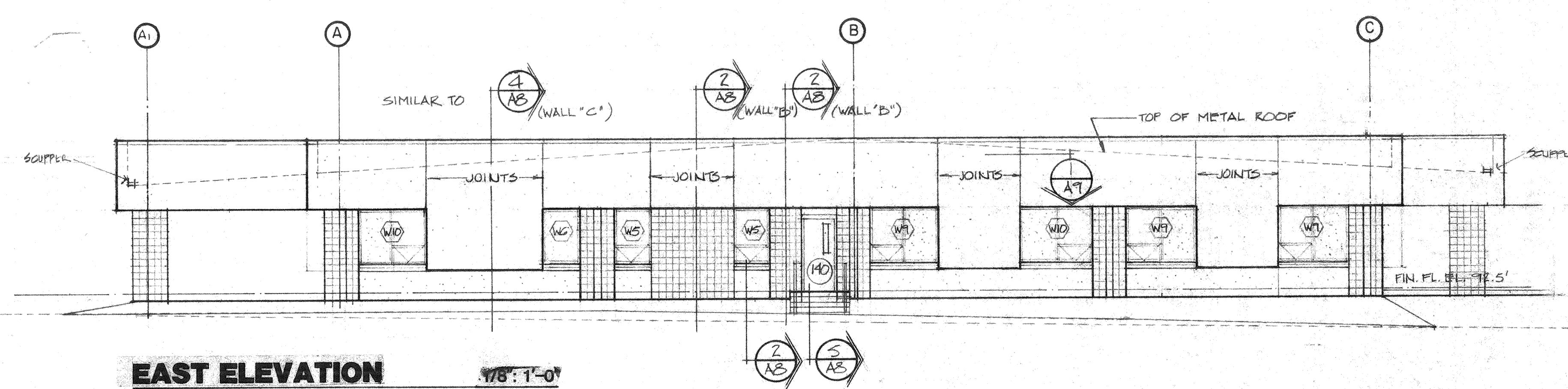




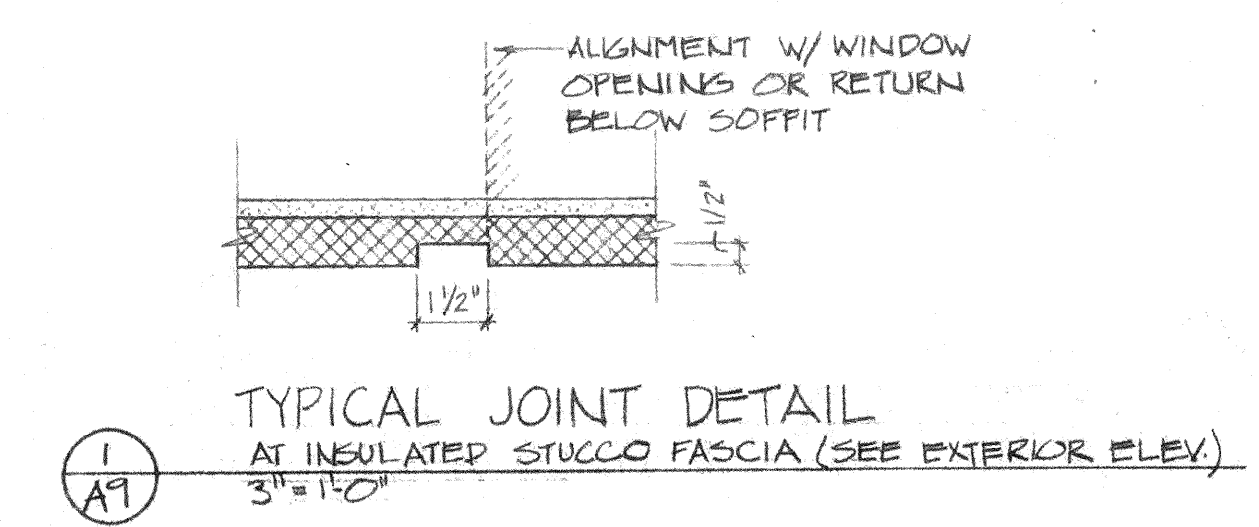
**WEST ELEVATION** 1/8" = 1'-0"



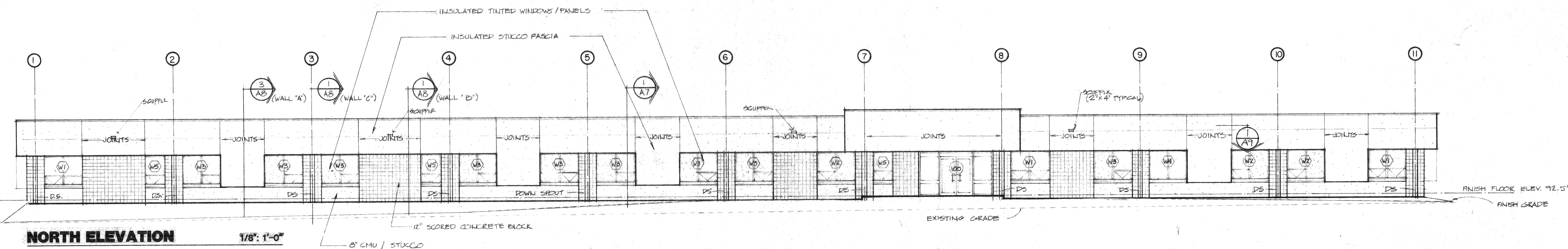
**SOUTH ELEVATION** 1/8" = 1'-0"



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

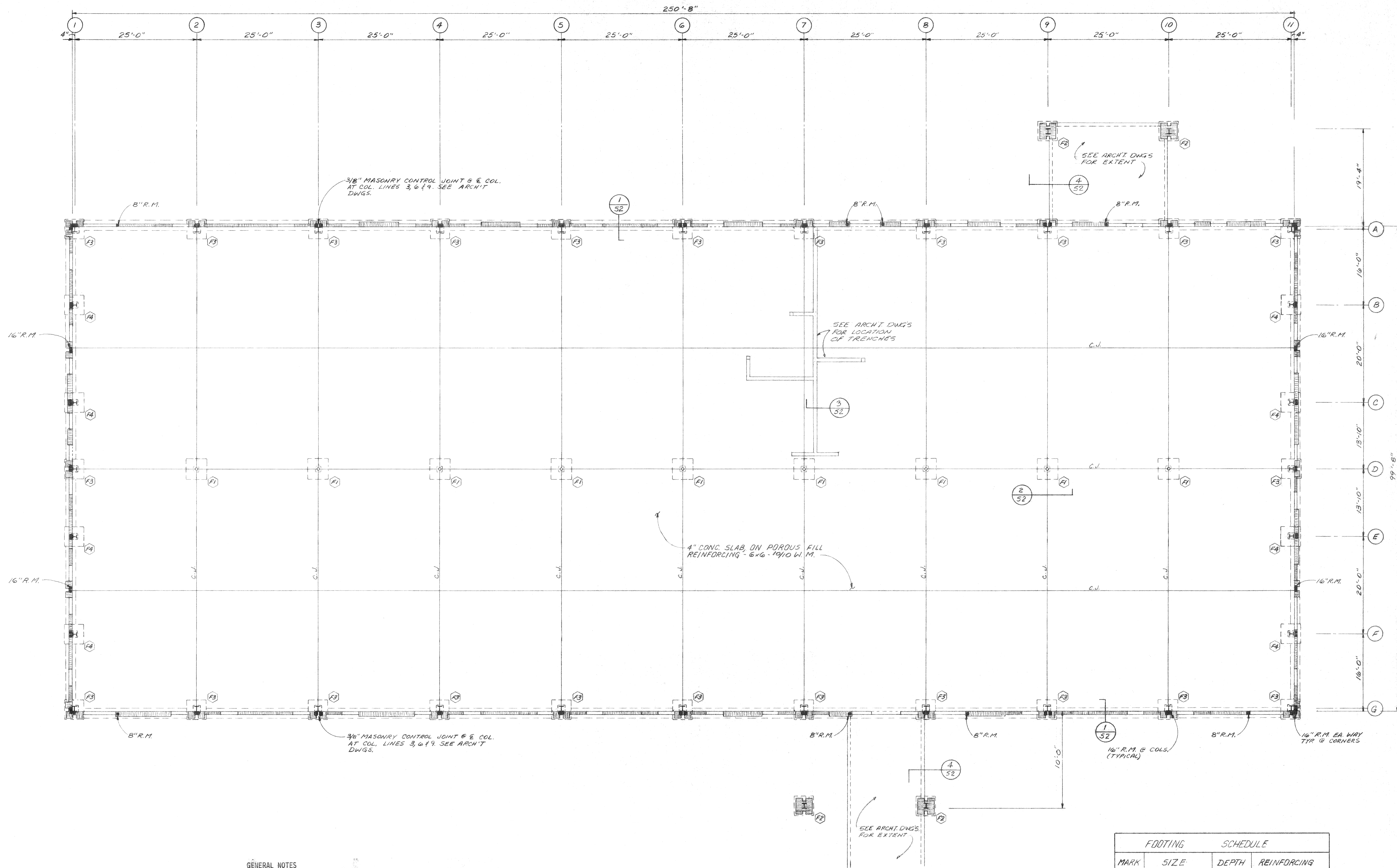


**TYPICAL JOINT DETAIL**  
AT INSULATED STUCCO FASCIA (SEE EXTERIOR ELEV.)  
3/4" = 1'-0"



**NORTH ELEVATION** 1/8" = 1'-0"





**GENERAL NOTES**

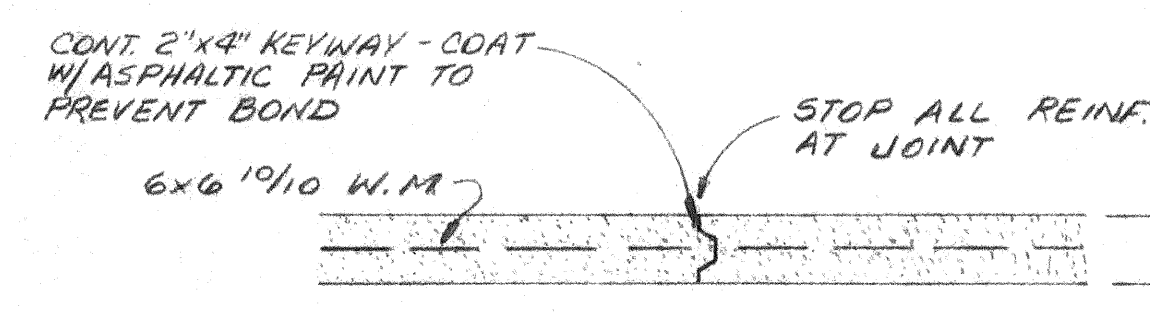
1. ALL POURED IN PLACE CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.
2. ALL FOOTINGS SHALL REST ON SOIL CAPABLE OF SUPPORTING 2000 LBS. PER SQ. FT.
3. ALL REINFORCING SHALL BE GRADE 60.
4. WHERE SPLICES IN REINFORCING ARE NECESSARY, REINFORCING SHALL BE LAPPED 36 DIAMETERS.
5. ALL REINFORCING STEEL AND ACCESSORIES SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF ACI MANUAL, "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES."
6. REINFORCING IN ALL CONCRETE WALLS, FOOTINGS, AND BOND BEAMS SHALL BE CONTINUOUS AROUND CORNERS. WHERE WALL FOOTINGS STEP, REINFORCING SHALL BE CONTINUOUS IN STEP.
7. FILL ALL BLOCK CELLS WITH CONCRETE FROM TOP OF FOOTINGS TO FINISH FLOOR ELEVATION.
8. ALL FILL FOR FLOOR SLABS SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY.
9. METAL BUILDING SHALL BE DESIGNED AND FABRICATED TO MEET ALL REQUIREMENTS OF STANDARD BUILDING CODE. BUILDING DESIGN MUST BE CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

**FOUNDATION AND FLOOR PLAN**

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

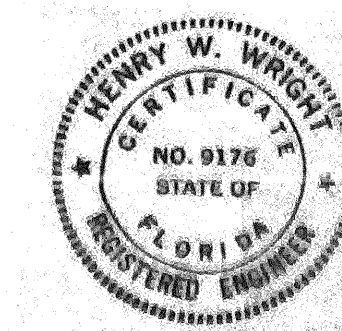
**FOUNDATION NOTES:**

1. ALL FILL FOR FLOOR SLABS SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY.
2. ALL SOIL IN BOTTOM OF FOOTING EXCAVATIONS SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY OF 18" BELOW BOTTOM OF FOOTINGS.
3. BOTTOM OF ALL FOOTING EXCAVATIONS SHALL BE INSPECTED AND TESTED FOR PROPER COMPACTION BY THE SOILS CONSULTANT, TALLAHASSEE SOIL TECH. INC. PRIOR TO POURING FOOTINGS.
4. ALL FILL FOR BUILDING SHALL BE TESTED FOR PROPER COMPACTION BY THE SOILS CONSULTANT.
5. SOIL DENSIFICATION FOR BUILDING SHALL BE IN ACCORDANCE WITH RECOMMENDATION OF SOIL TESTING COMPANY.
6. SOIL TESTING COMPANY SHALL ALSO VERIFY ASSUMED FOUNDATION BEARING VALUE OF 2000 LBS. PER SQ. FT. BEFORE BEGINNING CONSTRUCTION.



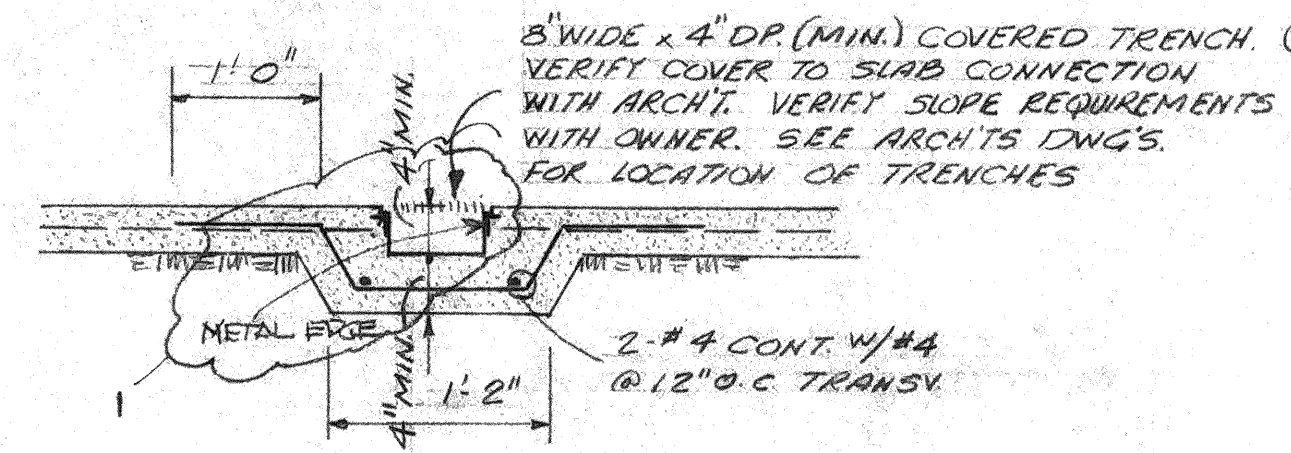
**TYP. CONTROL JOINT DETAIL**

FOOTING		SCHEDULE	
MARK	SIZE	DEPTH	REINFORCING
F1	4'-6" x 4'-6"	1'-6"	6#5 E.W. TOP & BOTTOM
F2	9'-0" x 4'-0"	1'-6"	5#5 E.W. TOP & BOTTOM
F3	3'-6" x 3'-6"	1'-6"	5#5 E.W. TOP & BOTTOM
F4	3'-0" x 3'-0"	1'-6"	5#5 E.W. TOP & BOTTOM

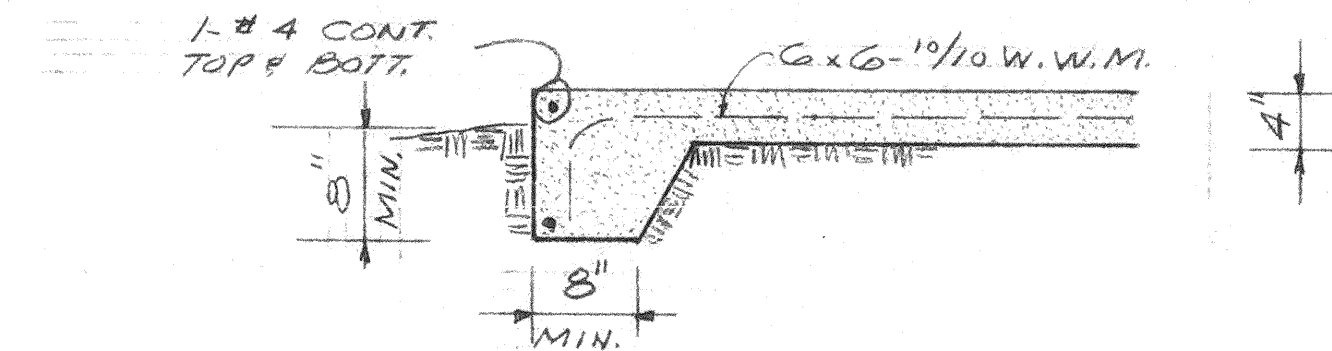


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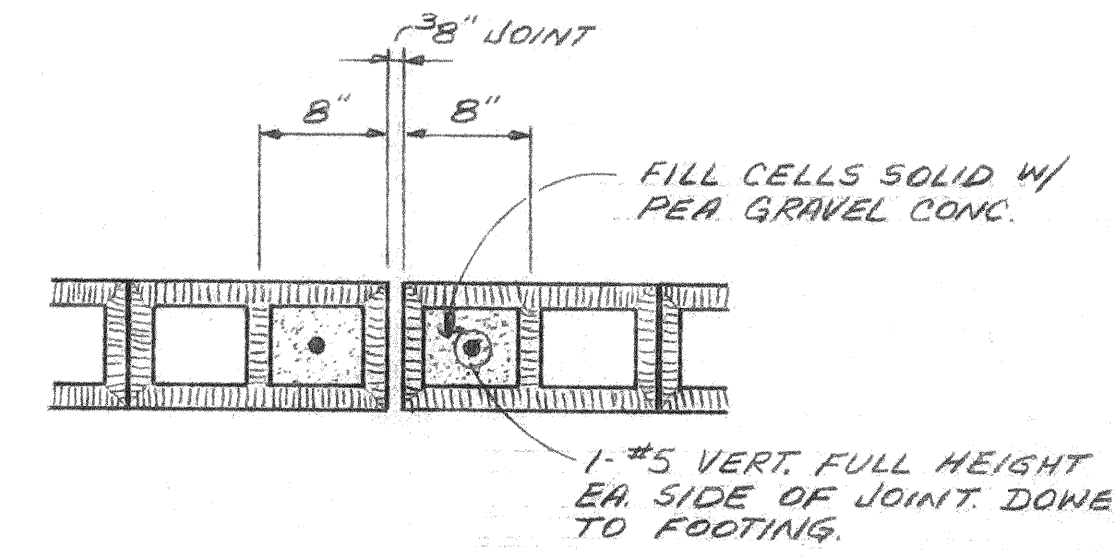




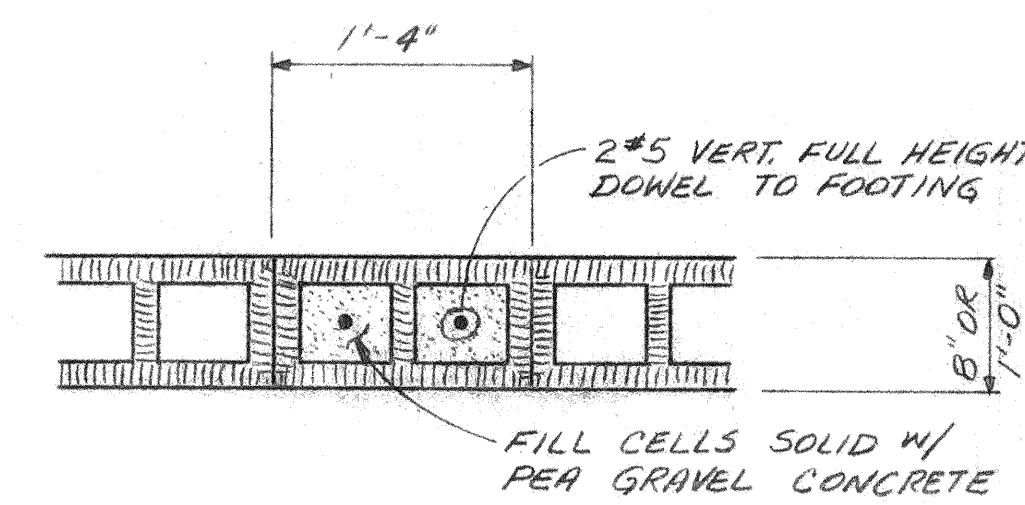
SECTION 3  
SCALE: 3/4"=1'-0"



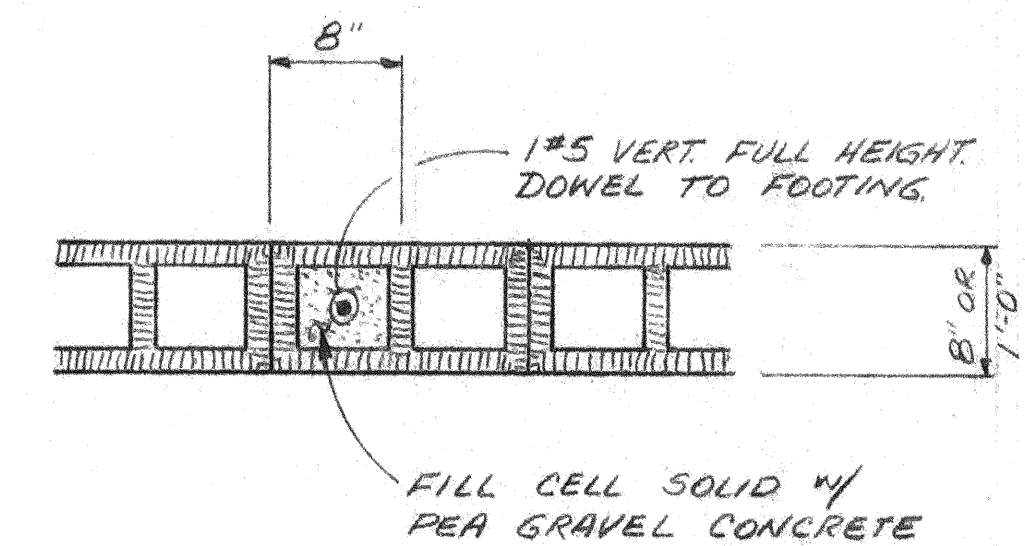
SECTION 4  
SCALE: 3/4"=1'-0"



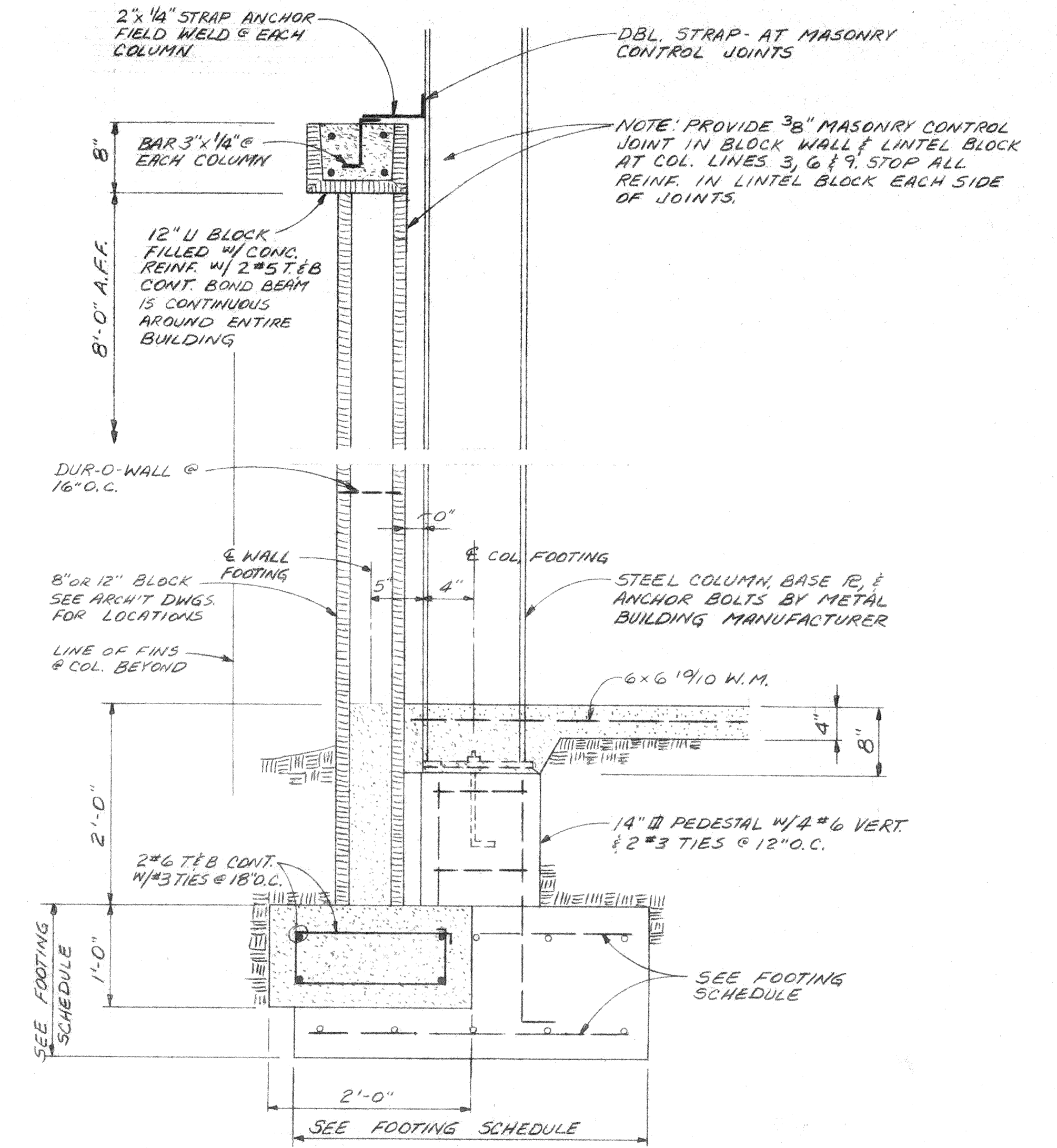
TYP. MASONRY CONTROL JOINT DETAIL  
(EACH SIDE OF BUILDING @ COLUMN LINES 3, 6 & 9)



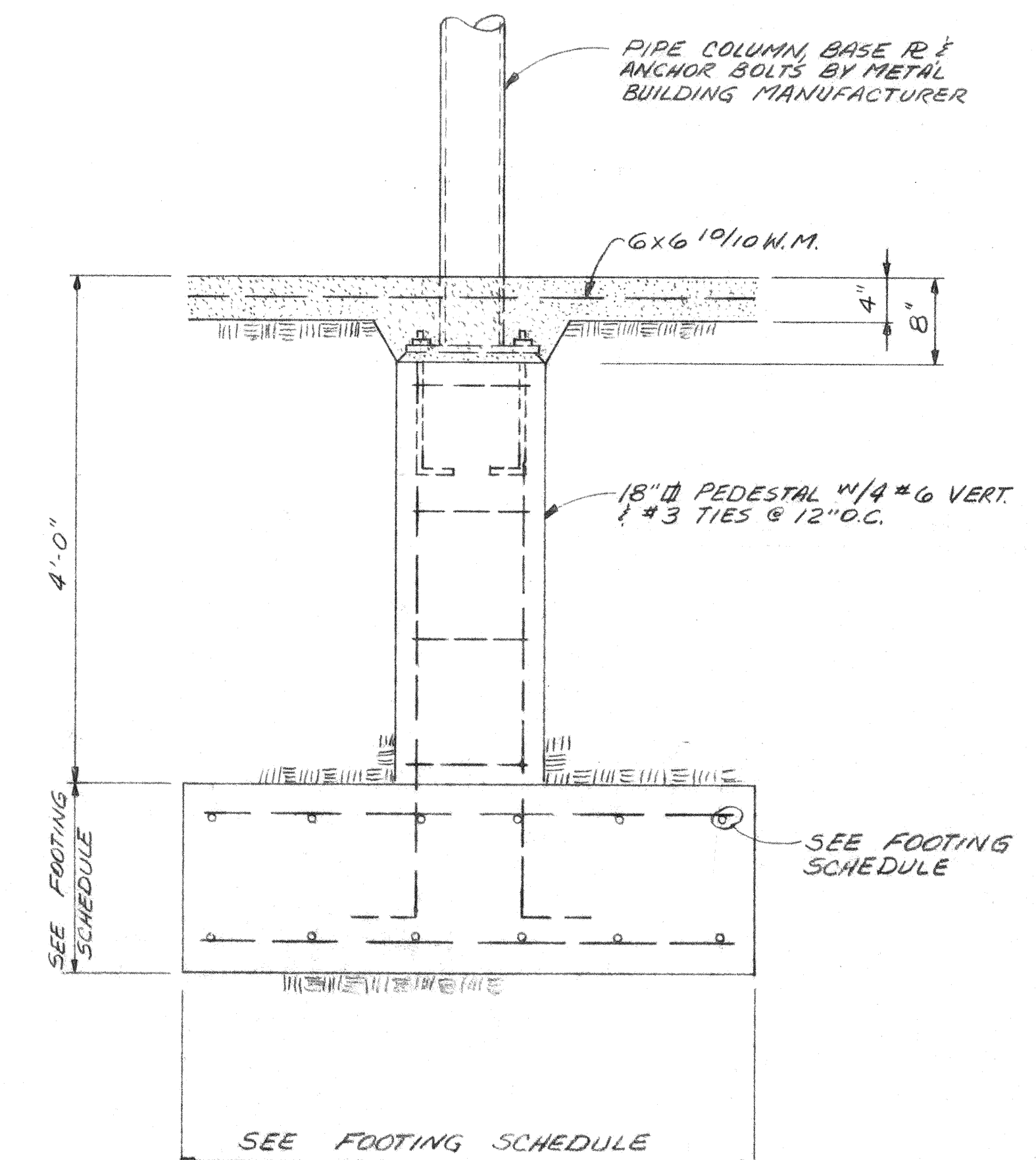
TYP. 16" REINFORCED MASONRY DETAIL



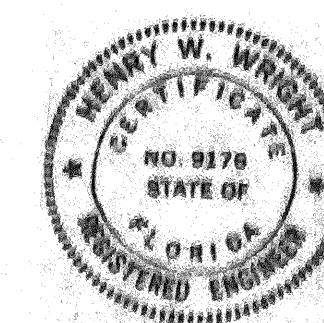
TYP. 8" REINFORCED MASONRY DETAIL



SECTION 1  
SCALE: 1"=1'-0"



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



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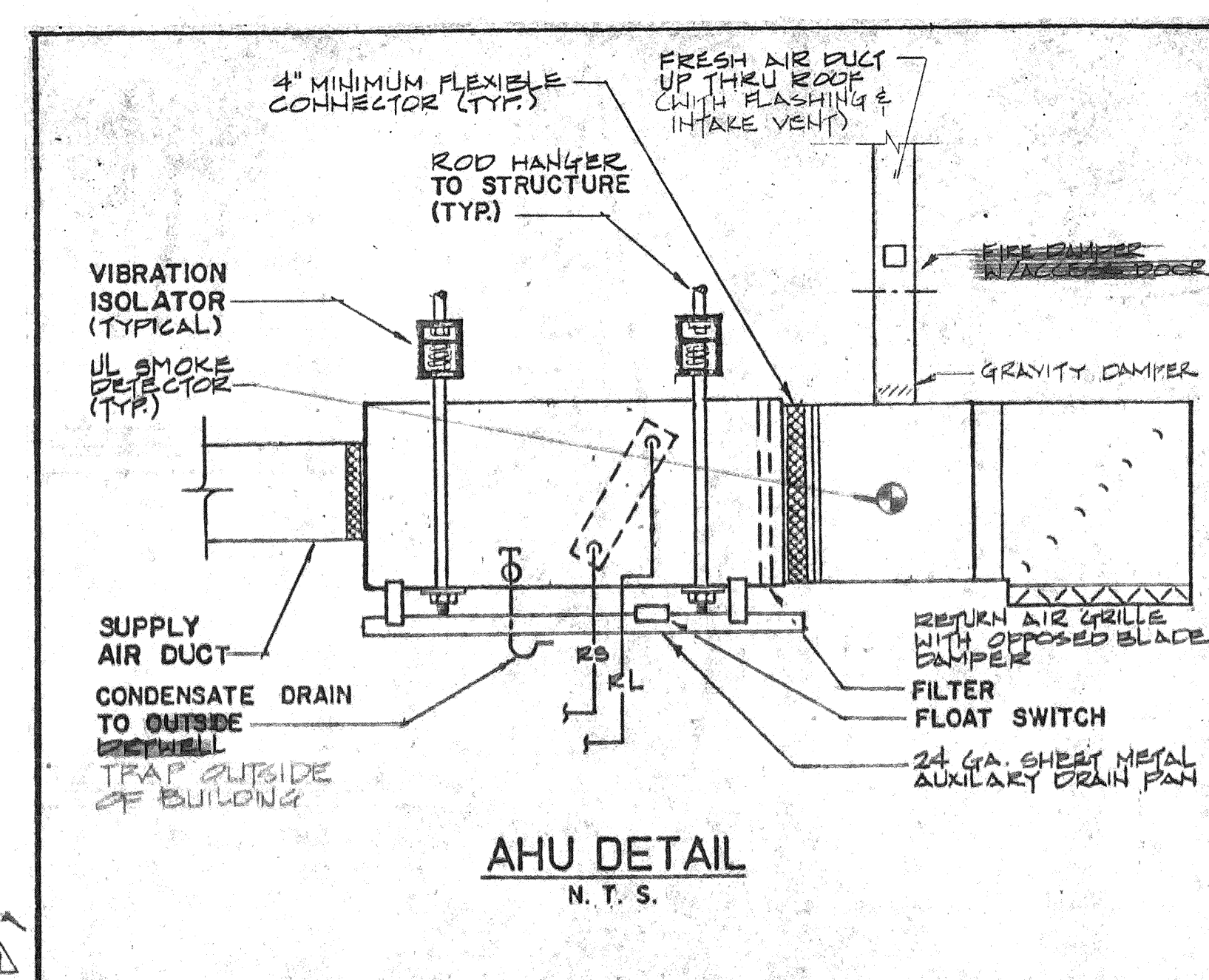
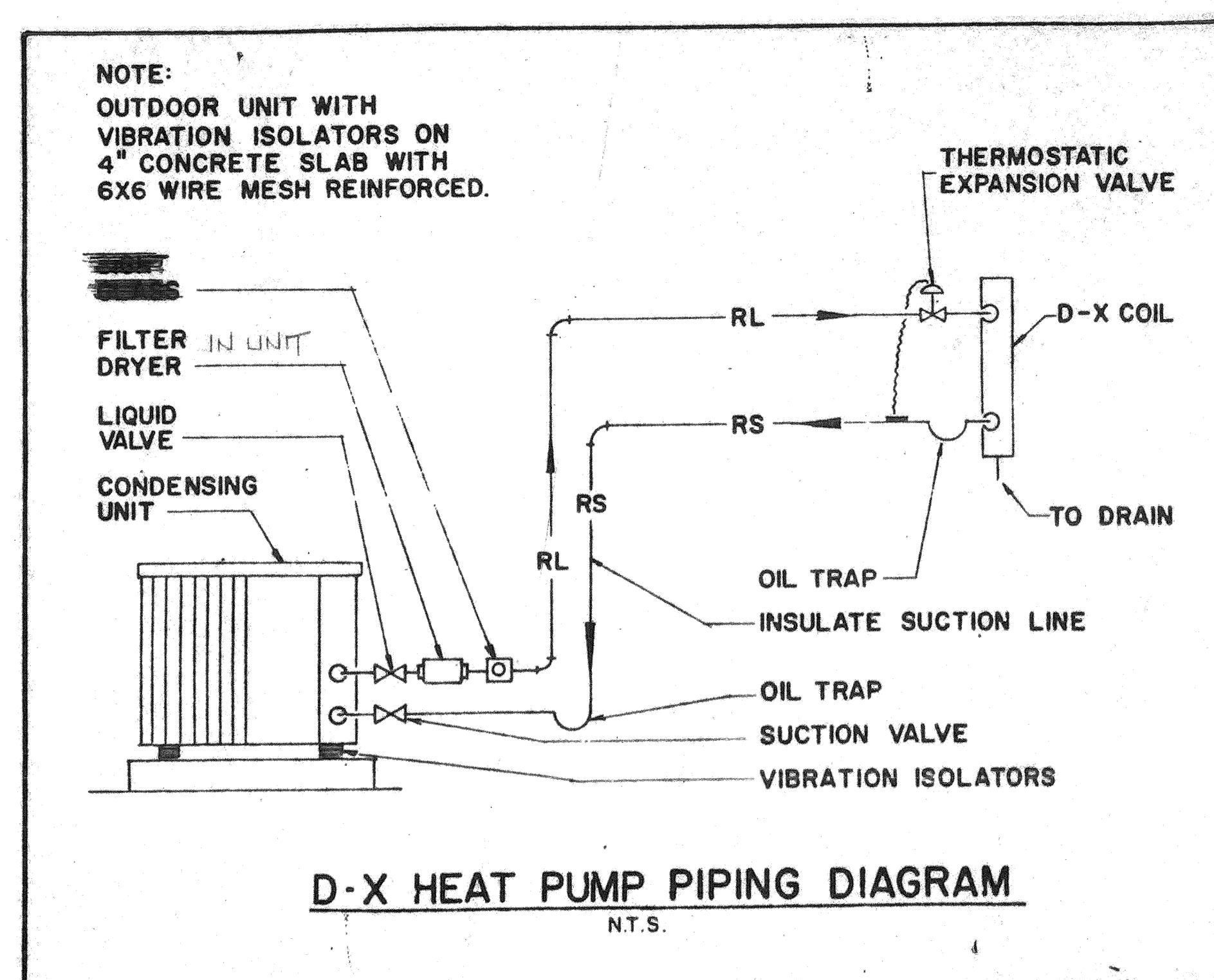
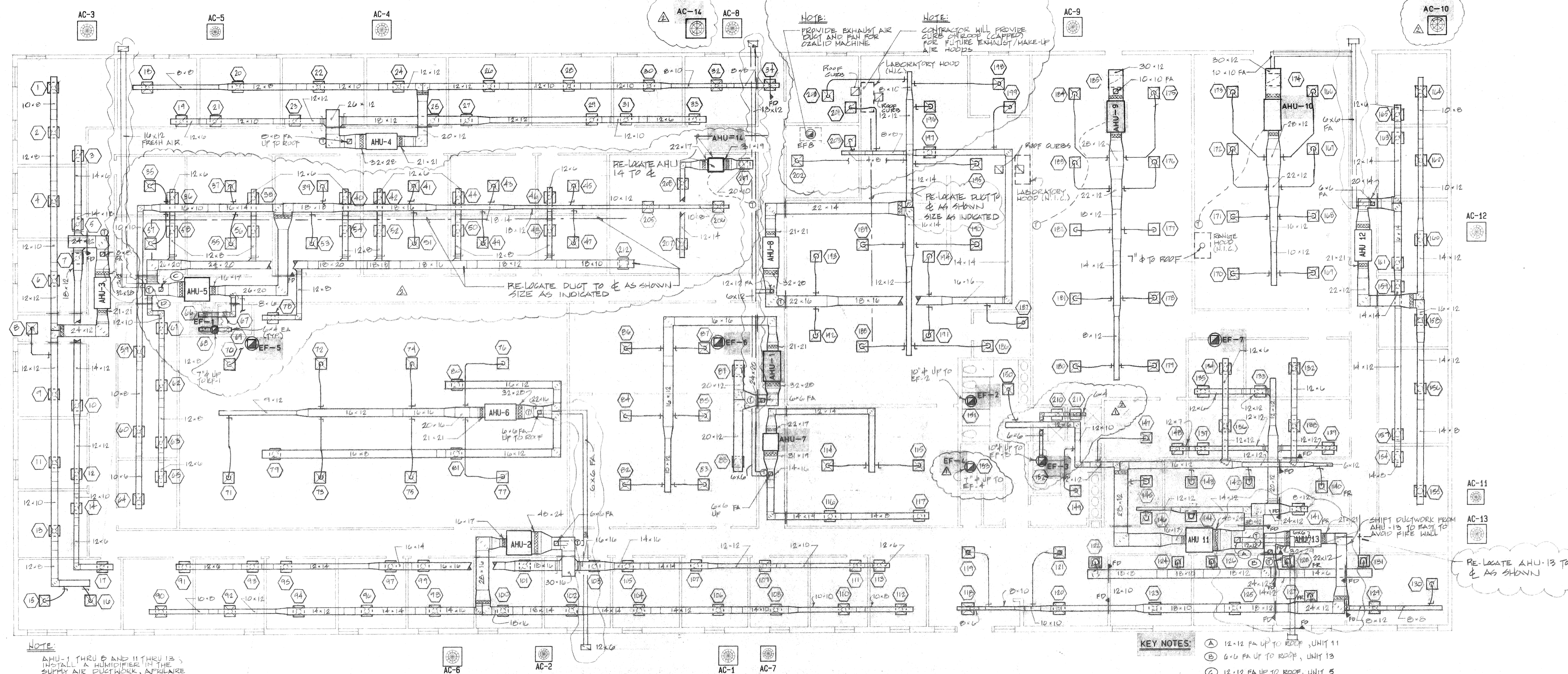
INNOVATION PARK TALLAHASSEE, FLORIDA

CLEMONS, RUTHERFORD  
& ASSOCIATES, INC.  
ARCHITECTS & PLANNERS  
TALLAHASSEE, FLORIDA

date	revisions
7/1/87	1
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S2  
CRA







## MECHANICAL NOTES

- The Contractor shall not fabricate any ductwork until he has verified at the site that sufficient clearances are available for the installation of ductwork considering requirements for piping, light fixtures, ceiling system, and structure.
- Deviation from materials, methods, and procedures set forth herein must be approved in writing by the Engineer. Approval will not be given unless the Engineer is satisfied that the proposed system is superior in performance, durability, longevity, and reliability to that specified.
- Approvals must be within ten (10) working days prior to bid date.
- All duct sizes shown are clear net inside dimensions.
- All ductwork shall be air tight and free of leaks, and shall be inspected for leaks prior to installation of blower-coil unit or finished ceiling system.
- Refrigerant piping shall be sized in strict accordance with the manufacturer's recommendations for liquid, vapor horizontal, and vapor risers.
- Tubing shall be installed with a moisture indicator sight glass located in the liquid line adjacent to the outdoor unit.
- Thoroughly clean refrigerant pipe fittings before assembly. All joints are to be made with silver alloy braze melting above 1100 degrees F. No acid flux is to be used on any joint.
- Ductwork, dampers, louvers, grilles, registers, troffers, diffusers, and other air distribution equipment and materials shall conform to the following:
  - ASHRAE/ANSI
  - SMCC/ASME
  - SMACNA
  - NEPA
  - AMCA Standards Handbook 99
  - Air Diffusion Council Test Code 1062R3
  - Any Local Codes not covered above
- A complete test and balance report shall be supplied by this Contractor to Engineer in writing per SMACNA Test and Balance Report Manual; prior to job acceptance by Owner.
- The submission of a bid or proposal will be construed as evidence that the Contractor has familiarized himself/herself with the plans, specifications and building site. Claims made subsequent to the proposal for materials and/or labor due to difficulties encountered will not be recognized, unless difficulties could not have been foreseen even though proper examination had been made.
- All Sub-Contractors must pre-qualify with Engineer prior to bid date.
- Thermostats to be programmable type as supplied by Lennox. Industries with locking covers mounted at 5' A.F.F.
- Condensate drains shall terminate into french drain or dry-well located at site.
- Contractor shall route refrigerant lines to shortest route possible; verify at site.
- All ducts shall be galvanized metal with 2" external duct wrap.
- Flexible ducts shall not exceed 6' in length; material to be Owl-Flex with no approved equal.
- UL approved fire dampers shall be installed in all fire-rated walls as indicated on plans with access doors.
- Air handling units shall be supported with threaded rods and vibration isolators as required by code.
- Float switch shall be installed in all auxiliary drain pans as required by SMCC mechanical codes.
- UL approved smoke detectors shall be installed in all supply air plenums of AHU units.
- Flexible duct connectors shall be installed at all exhaust fans.

## HEAT PUMP SCHEDULE

SYMBOL	AHU-1/AC-1	AHU-2/AC-2	AHU-3/AC-3
LOCATION-AHU	ATTIC	ATTIC	ATTIC
SERVICE	ZONE C	ZONE K	ZONE L
MANUFACTURER	LENNOX	LENNOX	LENNOX
MODEL AHU	CB15-1200/65	CBH17-95V	CB15-1200/65
MODEL AC	HP14-313/513V	HP17-953V	HP14-313/513V
AHU	C.F.M.	1600	3000
	EXT. S.P.	0.54"	0.73"
	H.P.	1/8	1/2
	KN (SIP)	4.5	12.6
	V	480	480
ELECTRICAL	Ø	3	3
	HZ.	60	60
	M.C.A.	23.5	23.5
	V	480	480
	Ø	3	3
AC	HZ.	60	60
	MCA	21.3	21.3
	SENSIBLE MBTUH	34.7	60.2
	TOTAL MBTUH	42.8	84.3
	EER 95°F	9.00	8.50
COOLING	TOTAL MBTUH	44.9	84.5
	COP 47°F	3.05	3.00
	FRESH AIR (CFM)	20	104
	OUTDOOR THERM.	YES	YES
	WEIGHT - AHU (LBS)	343	279
HEAT	WEIGHT - AC (LBS)	408	423
	FRESH AIR (CFM)	20	104
	OUTDOOR THERM.	YES	YES
	WEIGHT - AHU (LBS)	343	279
	WEIGHT - AC (LBS)	408	423

## PACKAGE A/C SCHEDULE

SYMBOL	PAC-1	
LOCATION	ATTIC	
SERVICE	ROOM 127	
MANUFACTURER	COIL COMPANY	
MODEL	C2A012	
C.F.M.	800	
EXT. S.P.	N/A	
EER @ 95°F	N/A	
COP @ 47°F	N/A	
AMBIENT AIR °F	95	
COOL. CAP. MBTUH	SENSIBLE	21,000 @ 72°F DB/60°F WB
	TOTAL	17,701
HEATING MBTUH	18,700	
ELECTRICAL	V	200
	Ø	1 DELETE
	HZ	60
	KW	4.2
	MCA	53.13
FRESH AIR (CFM)	NONE	
WEIGHT (LBS.)	355	
REMARKS	PROVIDE WITH MANUFACTURER PUBLISHED/INSTALLED OPTIONS AS FOLLOWS: 1, 2, 3, 4, 5, 6	

1. HUMIDIFIER  
2. ELECTRIC HEAT  
3. SPACE STATUS PANEL  
4. TWO-STEP FAN SWITCH AND THERMOSTAT  
5. ON SPACE WALL PLATE  
6. LOUVERED GRILL ASSEMBLY

## HEAT PUMP SCHEDULE

SYMBOL	AHU-4/AC-4	AHU-5/AC-5	AHU-6/AC-6
LOCATION-AHU	ATTIC	ATTIC	ATTIC
SERVICE	ZONE M	ZONE N	ZONE A
MANUFACTURER	LENNOX	LENNOX	LENNOX
MODEL AHU	CB512-51	CBH17-135V	CB512-65
MODEL AC	HP12-513	HP17-1353V	HP12-653
AHU	C.F.M.	1600	3770
	EXT. S.P.	0.62"	0.62"
	H.P.	1/8	1/2
	KN (SIP)	12.6	12.6
	V	480	480
ELECTRICAL	Ø	3	3
	HZ.	60	60
	M.C.A.	23.5	23.5
	V	480	480
	Ø	3	3
AC	HZ.	60	60
	MCA	10.4	23.4
	SENSIBLE MBTUH	34.7	73.4
	TOTAL MBTUH	42.8	113.9
	EER 95°F	9.00	8.20
COOLING	TOTAL MBTUH	44.9	114.7
	COP 47°F	3.05	3.00
	FRESH AIR (CFM)	110	270
	OUTDOOR THERM.	YES	YES
	WEIGHT - AHU (LBS)	343	377
HEAT	WEIGHT - AC (LBS)	408	520
	FRESH AIR (CFM)	110	270
	OUTDOOR THERM.	YES	YES
	WEIGHT - AHU (LBS)	343	377
	WEIGHT - AC (LBS)	408	520

## FAN SCHEDULE

SYMBOL	EF-1	EF-2	EF-4,B	EF-5 THRU EF-7
LOCATION	ROOF	ROOF	ROOF	ROOF
SERVICE	TOILET EXHAUST	TOILET EXHAUST	ELECTRICAL ROOM EXHAUST	ATTIC VENTILATION
MANUFACTURER	LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK
MODEL	70C15D	100C2B	70C15D	120C4B
BLOWER DATA	C.F.M.	176	452	150
	S.P.	1/4	1/4	1/4
	TYPE	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
	DRIVE	PULSED	BELT	PULSED
	H.P.	1/8	1/8	1/8
MOTOR DATA	R.P.M.	1550	800	1550
	V	120	120	120
	Ø	1	1	1
	HZ.	60	60	60
	M.C.A.	1.00	1.29	1.00
REMARKS	1, 2	1, 2	1, 2	1, 3

## FAN SCHEDULE

SYMBOL		EF-3
LOCATION		ROOF
SERVICE		TOILET EXHAUST
MANUFACTURER		LOREN COOK
MODEL		100C2B
BLOWER DATA	C.F.M.	532
	S.P.	1/4
	TYPE	CENTRIFUGAL
	DRIVE	BELT
MOTOR DATA	H.P.	1/8
	R.P.M.	1100
	V	120
	Ø	1
	H.Z.	60
	M.C.A.	1.50
REMARKS		1, 2 (SEE ABOVE)

## HEAT PUMP SCHEDULE

SYMBOL	AHU-7/AC-7	AHU-8/AC-8	AHU-9/AC-9
LOCATION-AHU	ATTIC	ATTIC	ATTIC
SERVICE	ZONE D	ZONE E	ZONE F
MANUFACTURER	LENNOX	LENNOX	LENNOX
MODEL AHU	CB512-31	CB512-65	CB512-65
MODEL AC	HP12-21V	HP12-653	HP12-653
AHU	C.F.M.	2000	2250
	EXT. S.P.	0.60"	0.60"
	H.P.	1/8	1/8
	KN (SIP)	4.5	12.6
	V	200	480
ELECTRICAL	Ø	1	3
	HZ.	60	60
	M.C.A.	23.3	23.5
	V	250	480
	Ø	1	3
AC	HZ.	60	60
	MCA	12.8	14.9
	SENSIBLE MBTUH	19.9	44.5
	TOTAL MBTUH	24.3	54.3
	EER 95°F	8.00	8.55
COOLING	TOTAL MBTUH	22.1	58.4
	COP 47°F	2.94	3.00
	FRESH AIR (CFM)	40	270
	OUTDOOR THERM.	YES	YES
	WEIGHT - AHU (LBS)	150	243
HEAT	WEIGHT - AC (LBS)	250	438
	FRESH AIR (CFM)	40	270
	OUTDOOR THERM.	YES	YES
	WEIGHT - AHU (LBS)	150	243
	WEIGHT - AC (LBS)	250	438

## MECHANICAL LEGEND

(H)	HUMIDISTAT CONTROL	UH	UNIT HEATER
(T)	ROOM THERMOSTAT	DH	DUCT HEATER
(TW)	THERMOSTAT FOR MOTORIZED DAMPER	EF	EXHAUST FAN
(N)	NIGHT SETBACK THERMOSTAT	RAF	RETURN AIR FAN
(S)	SMOKE DETECTOR (IN LINE)	NTS	NOT TO SCALE
(F)	FIRESTAT	FA	FRESH AIR INTAKE
(X)	RETURN/EXHAUST DUCTWORK	SA	SUPPLY AIR
(X)	SUPPLY AIR DUCTWORK	EA	EXHAUST AIR
(X)	BALANCING DAMPER (OPPOSED BLADE)	RA	RETURN AIR
(X)	EXHAUST FAN	MUA	MAKE-UP AIR
(X)	CEILING DIFFUSER	DG	DOOR GRILLE
(X)	SIDEWALL REGISTER	UC	UNDER-CUT
(X)	VOLUME DAMPER	AC	AIR COND. UNIT
(X)	AIR EXTRACTOR W/ ADJUSTABLE ROD	AHU	AIR HANDLING UNIT
(X)	RECTANGULAR DUCTWORK W/ DOUBLE TURNING VANES	RTU	ROOF TOP UNIT
(X)	DUCTWORK FLEXIBLE CONNECTOR	BD	BALANCING DAMPER
(X)	FLEXIBLE DUCTWORK (NOT TO EXCEED 6' IN LENGTH)	OA	OUTSIDE AIR
(X)	SMOKE/FIRE DAMPER	AFF	ABOVE FINISH FLOOR
(X)	FIRE DAMPER	CD	CEILING DIFFUSER
(X)	ROOF MOUNTED EXHAUSTER	CR	CEILING RETURN
(X)	ROOF VENTILATOR INTAKE	SWD	SIDEWALL DIFFUSER
(X)	LOUVERS AND SCREENS		
(X)	RECT. DUCT, FIRST # INDICATES SIZE OF SIDE SHOWN. DIM. IN INCHES & DUCT SIZES ARE NET INTERNAL DIMENSIONS		
		(X)	DETAIL NUMBER
		(X)	SHEET ON WHICH DETAIL IS LOCATED
		(XX)	SPECIFICATION SECTION (IN SPEC. BOOK)
		(XX)	SPECIFIC DETAIL REFERENCE WITHIN THIS SPECIFICATION SECTION
		(XX)	DIFFUSER, REGISTER OR GRILLE #, SEE SCHEDULE
		(X)	VAV BOX TAG NUMBER
		(XX)	INFORMATION NOTES
			NOTE: SOME SYMBOLS AND ABBREVIATIONS MAY NOT BE USED ON THESE DRAWINGS.

PROPOSED OFFICES FOR DEPARTMENT OF NATURAL RESOURCES  
MINES RECLAMATION AND MARKETING/EXTENSION SERVICES  
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TALLAHASSEE, FLORIDA

revisions:  
date: 10/20/04  
proj. no.: 04-001  
drawn: JLS  
check: JLS



SYMBOL (XX)	LOCATION	FUNCTION	CFM	NECK VEL. (FPM)	SIZE (INCHES) FACE NECK	AIR PATTERN (#-WAY)	MANUF.	TYPE
1	CEILING	SA	105	473	10-10 8" x 8"	4	METALAIR	A
2		SA	105	473	10-10 8" x 8"	4		A
3		RA	310	395	14-14 12" x 12"	1		B
4		SA	190	544	10-10 8" x 8"	4		A
5		RA	100	408	10-10 8" x 8"	1		B
6		SA	195	559	10-10 8" x 8"	4		A
7		RA	105	420	10-10 8" x 8"	1	METALAIR	B
8		SA	62	216	24-24 6" x 6"	4	BARBER COLEMAN	C
9		SA	195	559	10-10 8" x 8"	4	METALAIR	A
10		RA	180	408	10-10 8" x 8"	1		B
11		SA	190	544	10-10 8" x 8"	4		A
12		RA	180	408	10-10 8" x 8"	1		B
13		SA	190	544	10-10 8" x 8"	4		A
14		RA	180	408	10-10 8" x 8"	1		B
15		SA	124	523	8-8 7" x 7"	4		A
16		SA	124	523	8-8 7" x 7"	4		A
17		RA	235	431	12-12 10" x 10"	1		B
18		SA	197	565	10-10 8" x 8"	4		A
19		RA	190	431	10-10 8" x 8"	1		B
20		SA	197	565	10-10 8" x 8"	4		A
21		RA	190	431	10-10 8" x 8"	1		B
22		SA	197	565	10-10 8" x 8"	4		A
23		RA	190	431	10-10 8" x 8"	1		B
24		SA	197	565	10-10 8" x 8"	4		A
25	CEILING	RA	190	431	10-10 8" x 8"	1	METALAIR	B

SYMBOL (XX)	LOCATION	FUNCTION	CFM	NECK VEL. (FPM)	SIZE (INCHES) FACE NECK	AIR PATTERN (#-WAY)	MANUF.	TYPE
26	CEILING	SA	197	565	10-10 8" x 8"	4	METALAIR	A
27		RA	190	431	10-10 8" x 8"	1		B
28		SA	197	565	10-10 8" x 8"	4		A
29		RA	190	431	10-10 8" x 8"	1		B
30		SA	190	544	10-10 8" x 8"	4		A
31		RA	180	408	10-10 8" x 8"	1		B
32		SA	190	544	10-10 8" x 8"	4		A
33		RA	180	408	10-10 8" x 8"	1	METALAIR	B
34		SA	300	500	24-24 4" x 4"	4	BARBER COLEMAN	C
35		SA	175	501	10-10 8" x 8"	4	METALAIR	A
36		RA	170	487	10-10 8" x 8"	1		B
37		SA	210	602	10-10 8" x 8"	4		A
38		RA	200	454	10-10 8" x 8"	1		B
39		SA	210	602	10-10 8" x 8"	4		A
40		RA	200	454	10-10 8" x 8"	1		B
41		SA	210	602	10-10 8" x 8"	4		A
42		RA	200	454	10-10 8" x 8"	1		B
43		SA	210	602	10-10 8" x 8"	4		A
44		RA	200	454	10-10 8" x 8"	1		B
45		SA	175	501	10-10 8" x 8"	4		A
46		RA	170	386	10-10 8" x 8"	1		B
47		SA	175	501	10-10 8" x 8"	4		A
48		RA	170	386	10-10 8" x 8"	1		B
49		SA	210	602	10-10 8" x 8"	4		A
50	CEILING	RA	200	454	10-10 8" x 8"	1	METALAIR	B

SYMBOL (XX)	LOCATION	FUNCTION	CFM	NECK VEL. (FPM)	SIZE (INCHES) FACE NECK	AIR PATTERN (#-WAY)	MANUF.	TYPE
51	CEILING	SA	210	602	10-10 8" x 8"	4	METALAIR	A
52		RA	200	454	10-10 8" x 8"	1		B
53		SA	210	602	10-10 8" x 8"	4		A
54		RA	200	454	10-10 8" x 8"	1		B
55		SA	210	602	10-10 8" x 8"	4		A
56		RA	200	454	10-10 8" x 8"	1		B
57		SA	175	501	10-10 8" x 8"	4		A
58		RA	170	487	10-10 8" x 8"	1		B
59		SA	125	637	8-8 6" x 6"	4		A
60		SA	125	637	8-8 6" x 6"	4		A
61		RA	80	408	10-10 8" x 8"	1		B
62						7		B
63		RA	200	454	10-10 8" x 8"	1		B
64		SA	200	573	10-10 8" x 8"	4		A
65		RA	190	451	10-10 8" x 8"	1		B
66		SA	200	454	10-10 8" x 8"	4		A
67		SA	200	454	10-10 8" x 8"	4		A
68		EA	176	743	7" x 7"	1		B
69		EA	176	743	7" x 7"	1		B
70		SA	250	605	12-12 10" x 10"	4		A
71						4		A
72						4		A
73						4		A
74						4		A
75	CEILING	SA	250	605	12-12 10" x 10"	4	METALAIR	A

SYMBOL (XX)	LOCATION	FUNCTION	CFM	NECK VEL. (FPM)	SIZE (INCHES) FACE NECK	AIR PATTERN (#-WAY)	MANUF.	TYPE
76	CEILING	SA	250	584	12-12 10" x 10"	4	METALAIR	A
77		SA	289	530	12-12 10" x 10"	4		A
78		RA	380	420	14-14 12" x 12"	1		B
79				683	453	18-18 16" x 16"	1	B
80				683	453	18-18 16" x 16"	1	B
81		RA	634	453	18-18 16" x 16"	1		B
82		SA	246	608	10-10 8" x 8"	4		A
83				608				A
84			267	605				A
85								A
86								A
87		SA	267	605	10-10 8" x 8"	4		A
88		RA	274	476	20-20 18" x 18"	1		B
89		RA	274	476	20-20 18" x 18"	1		B
90		SA	264	599	10-10 8" x 8"	4		A
91		RA	250	459	10" x 10"	1		B
92		SA	264	599	10" x 10"	4		A
93		RA	250	459	10" x 10"	1		B
94		SA	264	599	10" x 10"	4		A
95		RA	250	459	10" x 10"	1		B
96		SA	264	599	10" x 10"	4		A
97		RA	250	459	10" x 10"	1		B
98		SA	264	599	10" x 10"	4		A
99		RA	250	459	10" x 10"	1		B
100	CEILING	SA	264	599	10-10 8" x 8"	4	METALAIR	A

SYMBOL (XX)	LOCATION	FUNCTION	CFM	NECK VEL. (FPM)	SIZE (INCHES) FACE NECK	AIR PATTERN (#-WAY)	MANUF.	TYPE
101	CEILING	RA	250	459	10-10 10" x 10"	1	METALAIR	B
102		SA	264	599	10" x 10"	4		A
103		RA	250	459	10" x 10"	1		B
104		SA	264	599	10" x 10"	4		A
105		RA	250	459	10" x 10"	1		B
106		SA	264	599	10" x 10"	4		A
107		RA	250	459	10" x 10"	1		B
108		SA	264	599	10" x 10"	4		A
109		RA	190	449	8" x 8"	1		B
110		SA	200	596	8" x 8"	4		A
111		RA	190	449	8" x 8"	1		B
112		SA	200	596	8" x 8"	4		A
113		RA	190	449	10-10 8" x 8"	1		B
114		SA	400	510	14-14 12" x 12"	4		A
115		SA	400	510	14-14 12" x 12"	4		A
116		RA	380	424	14-14 12" x 12"	1		B
117		RA	380	424	14-14 12" x 12"	1	METALAIR	B
118		SA	175	510	24-24 8" x 8"	4	BARBER COLEMAN	C
119			175	501	8" x 8"	4		A
120			193	501	7" x 7"	4		A
121		SA	190	549	24-24 7" x 7"	4		C
122		RA	595	419	24-24 16" x 16"	1	BARBER COLEMAN	D
123		SA	217	622	10-10 8" x 8"	4	METALAIR	A
124		RA	200	467	10-10 8" x 8"	1		B
125	CEILING	SA	217	622	10-10 8" x 8"	4	METALAIR	A

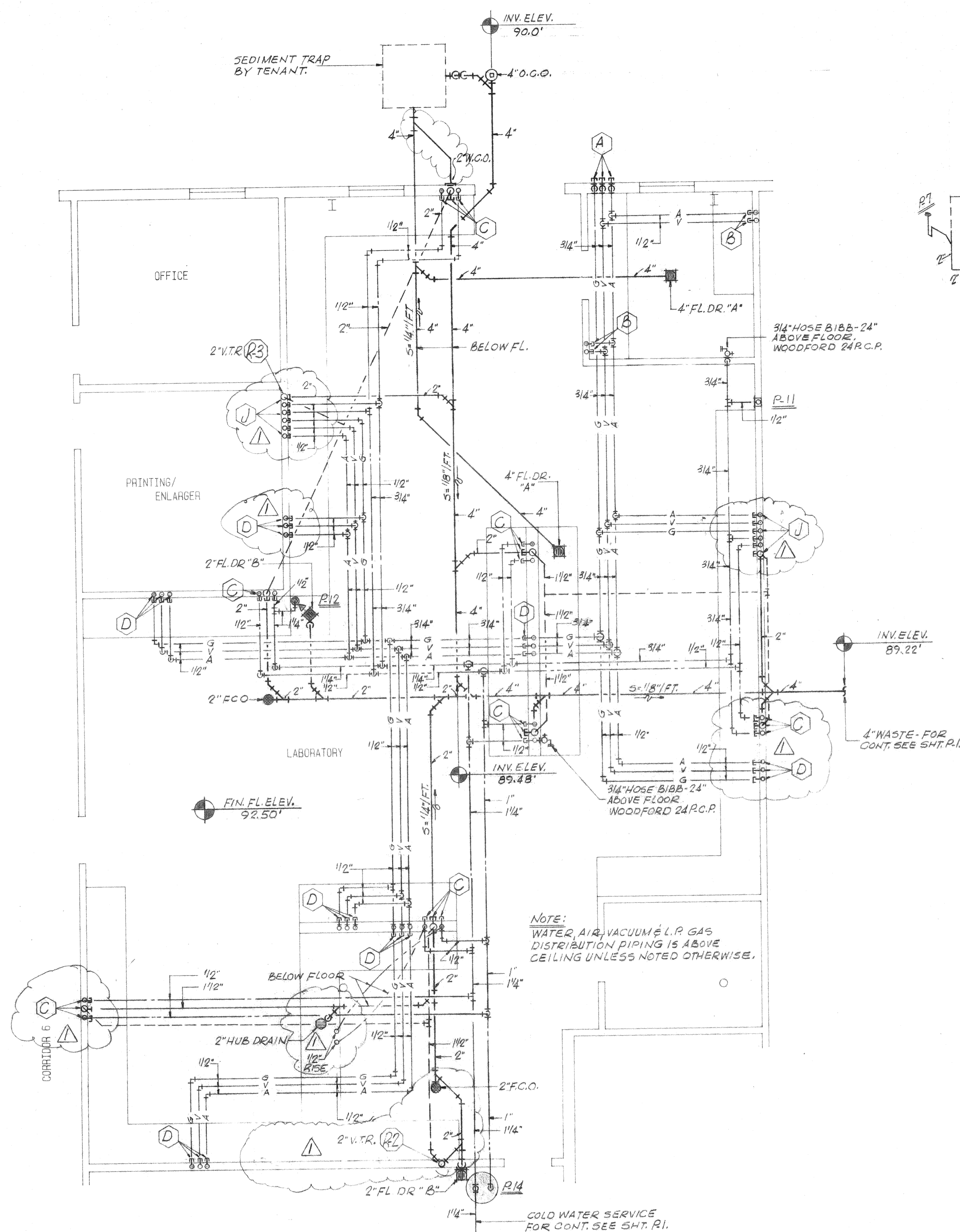
SYMBOL (XX)	LOCATION	FUNCTION	CFM	NECK VEL. (FPM)	SIZE (INCHES) FACE NECK	AIR PATTERN (#-WAY)	MANUF.	TYPE
126	CEILING	RA	200	467	10-10 8" x 8"	1	METALAIR	B
127		SA	217	622	24-24 8" x 8"	4	BARBER COLEMAN	C
128		RA	200	467	24-24 8" x 8"	1	BARBER COLEMAN	D
129		SA	160	476	8-8 8" x 8"	4	METALAIR	A
130		SA	167	470	8-8 8" x 8"	4		A
131		RA	310	403	14-14 12" x 12"	1		B
132		SA	405	516	14-14 12" x 12"	4		A
133		RA	305	410	14-14 12" x 12"	1		B
134		SA	290	532	10-10 10" x 10"	4		A
135		RA	275	505	10" x 10"	1		B
136		SA	273	619	8" x 8"	4		A
137		RA	260	477	10" x 10"	1		B
138		SA	273	619	8" x 8"	4		A
139		RA	260	477	10-10 10" x 10"	1	METALAIR	B
140		SA	225	646	24-24 8" x 8"	4	BARBER COLEMAN	C
141		RA	270	495	24-24 10" x 10"	1	BARBER COLEMAN	D
142		SA	235	646	10-10 8" x 8"	4	METALAIR	A
143		SA	235	646	10-10 8" x 8"	4		A
144		RA	540	508	16-16 14" x 14"	1		B
145		SA	285	646	10-10 8" x 8"	4		A
146		RA	270	495	10-10 10" x 10"	1		B
147		SA	527	600	10-10 10" x 10"	4		A
148		RA	510	395	14-14 12" x 12"	1		B
149		SA	146	616	8-8 7" x 7"	3		A
150	CEILING	SA	146	616	8-8 7" x 7"	3	METALAIR	A

SYMBOL (XX)	LOCATION	FUNCTION	CFM	NECK VEL. (FPM)	SIZE (INCHES)		AIR PATTERN (#-WAY)	MANUF.	TYPE
					FACE	NECK			
151	CEILING	EA	216	619	10-10	8" x 8"	1	METALAIR	B
152		EA	216	619	10-10	8" x 8"	1		B
153		EA	150	275	8-8	7" x 7"	1		B
154		SA	330	431	14-14	12" x 12"	4		A
155		RA	322	410			1		B
156		SA	334	435			4		A
157		RA	317	404	14-14	12" x 12"	1		B
158		SA	225	510	10-10	9" x 9"	4		A
159		RA	214	485			1		B
160		SA	225	510			4		A
161		RA	214	485			1		B
162		SA	225	510			4		A
163		RA	214	485			1		B
164		SA	225	510			4		A
165		RA	214	485			1		B
166		SA	250	567			4		A
167									
168									
169									
170									
171									
172									
173		SA	250	567	10-10	9" x 9"	4		A
174		RA	2200	5500	30-24	30-24	1		B
175	CEILING	SA	200	573	10-10	8" x 8"	4	METALAIR	A





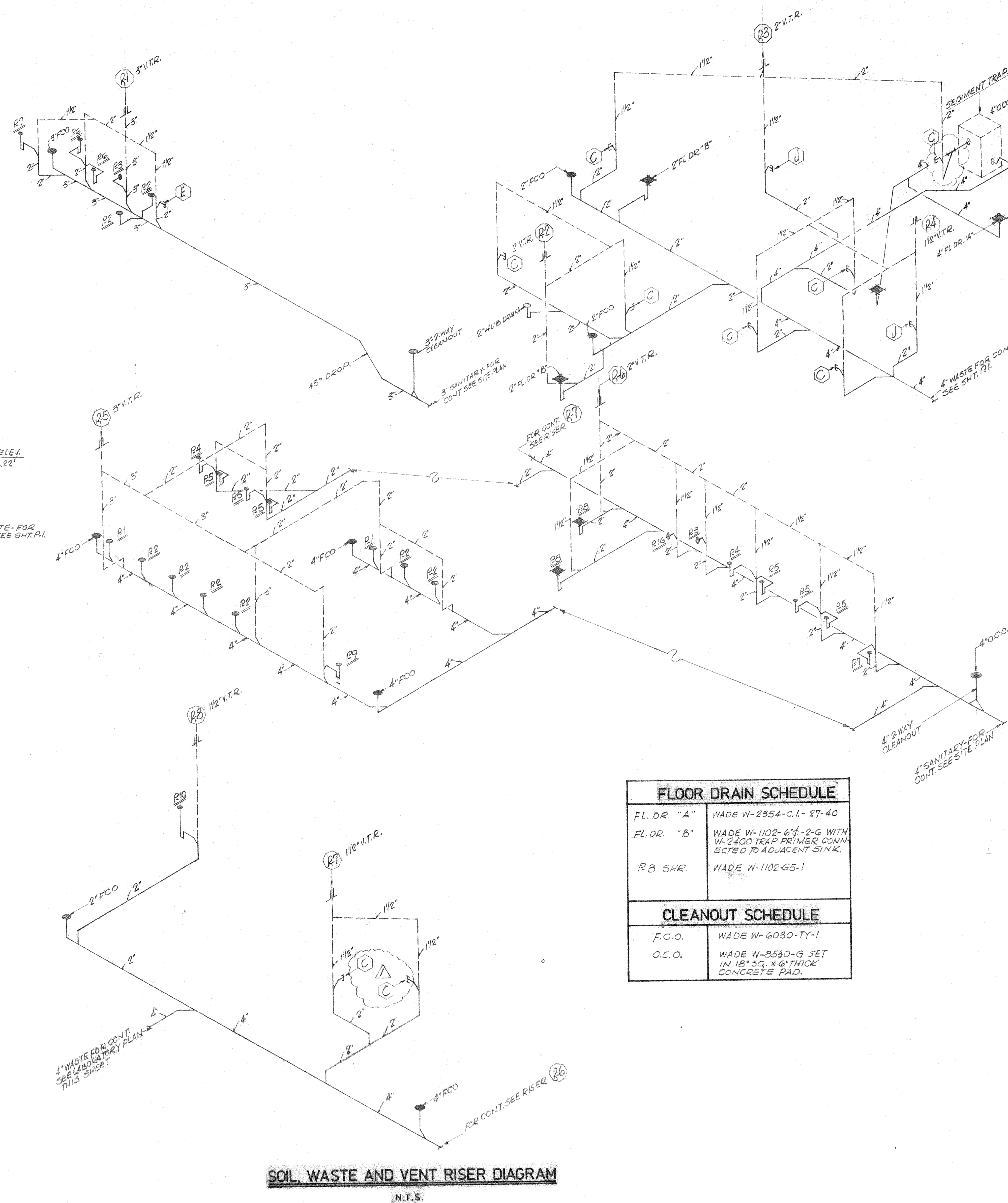




CODED NOTES	
A	3/4" AIR, VACUUM & L.P. GAS. CAP 3'-0" ABOVE FLOOR FOR FUTURE EXTENSION.
B	1/2" AIR & VACUUM - CAP BEYOND FACE OF WALL FOR FUTURE EXTENSION.
C	1/2" HW, CW & 1/2" WASTE - CAP BEYOND FACE OF WALL FOR FUTURE SINK.
D	1/2" AIR, VACUUM & GAS - CAP BEYOND FACE OF WALL FOR FUTURE EXTENSION.
E	1/2" CW & 1/2" WASTE - CAP BEYOND FACE OF WALL FOR FUTURE SINK.
F	NOT USED.
G	1/2" VALVED CW WITH WATTS 3/8" NO. N-L-F 9 BACKFLOW PREVENTER - CONNECT TO TO HUMIDIFIER.
H	1/2" CW TO ICE MAKER.
I	B&G LR-20 HOT WATER CIRCULATING PUMP.

NOTE:  
CONTRACTOR SHALL VERIFY ROUGHING HEIGHTS WITH TENANT.

J 1/2" HW, CW, AIR, VACUUM, GAS & 1/2" WASTE. CAP BEYOND FACE OF WALL FOR FUME HOOD.



FLOOR DRAIN SCHEDULE	
FL. DR. "A"	WADE W-2354-C.I.-27-40
FL. DR. "B"	WADE W-1102-618-2-G WITH W-2400 TRAP PRIMER CONNECTED TO ADJACENT SINK.
P.B. SHR.	WADE W-1102-G5-1
CLEANOUT SCHEDULE	
F.C.O.	WADE W-6030-TY-1
O.C.O.	WADE W-BS30-G SET IN 18" SQ. X 6" THICK CONCRETE PAD.

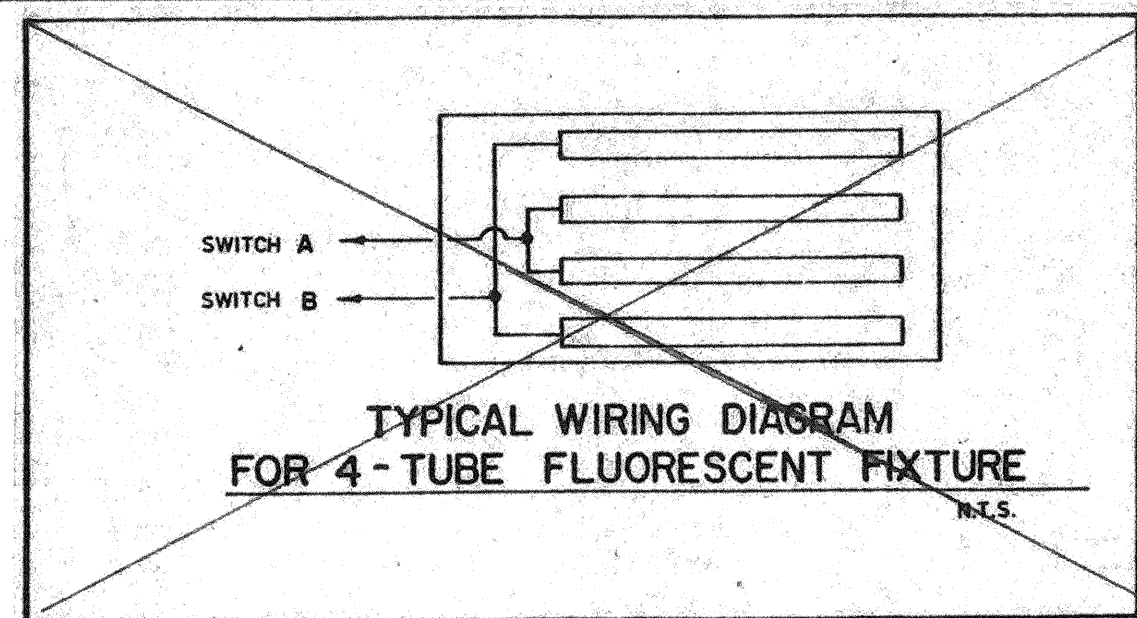




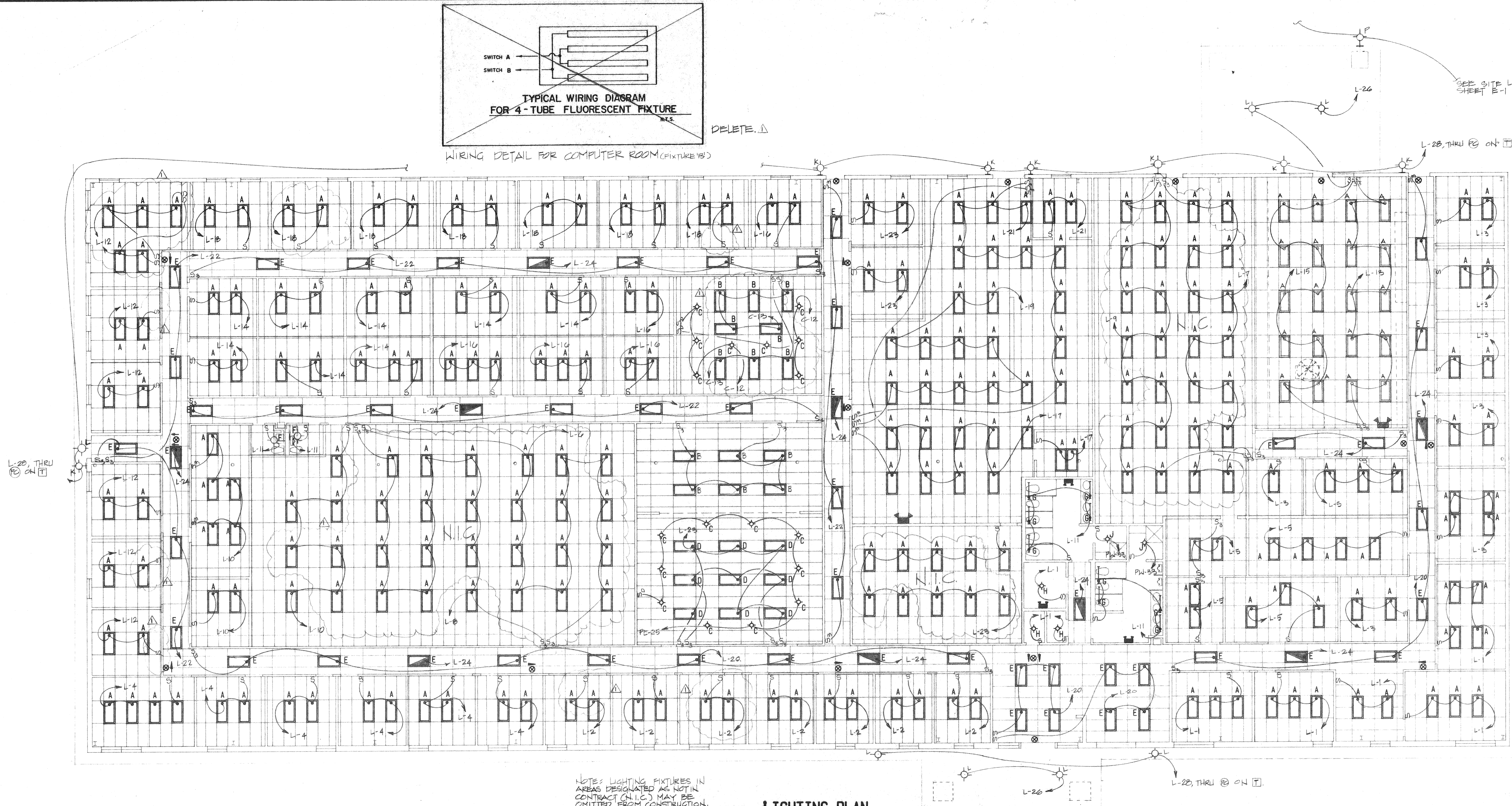








WIRING DETAIL FOR COMPUTER ROOM (FIXTURE 15)



NOTES: LIGHTING FIXTURES IN AREAS DESIGNATED AS NOT IN CONTRACT (N.I.C.) MAY BE OMITTED FROM CONSTRUCTION. THIS PHASE PANELS SIZED FOR FUTURE LOADS. CONTRACTOR TO INSTALL JUNCTION BOXES FOR FUTURE LIGHTING AS SHOWN, WITH EACH CIRCUIT LOADED TO 65% CAPACITY (MAX.).

### LIGHTING PLAN

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

PANEL L CIRCUIT SCHEDULE									
		MAIN M.L.O.		SPACES 42		VOLTS 277/480 AMPS 225 A		PHASE B WIRE 4	
				MOUNTING RECESSED					
CKT	SERVING	WIRE	BREAKER	KVA	Ø	KVA	BREAKER	WIRE	SERVING
1	LGTS, NW OFFICES	2#12	20	2.6	A	2.6	20	2#12	LGTS, NE OFFICES
3	LGTS, W OFFICES	2#12	20	2.4	B	2.3	20	2#12	LGTS, NE OFFICES
5	LGTS, W OFFICES	2#12	20	2.4	C	2.0	20	2#12	LGTS, FUTURE OFFICES
7	LGTS, W OFFICES	2#12	20	2.3	A	2.0	20	2#12	LGTS, FUTURE OFFICES
9	LGTS, W OFFICES	2#12	20	2.3	B	2.0	20	2#12	LGTS, FUTURE OFFICES
11	LGTS, BATHROOMS	2#12	20	1.5	C	2.4	20	2#12	LGTS, W OFFICES
13	LGTS, KITCHEN	2#12	20	1.6	A	2.0	20	2#12	LGTS, INTERIOR OFFICES
15	LGTS, KITCHEN	2#12	20	1.6	B	2.0	20	2#12	LGTS, INTERIOR OFFICES
17	LGTS, LABORATORY	2#12	20	1.8	C	2.3	20	2#12	LGTS, SE OFFICES
19	LGTS, LAB	2#12	20	1.8	A	1.7	20	2#12	LGTS, CORRIDOR
21	LGTS, LAB	2#12	20	2.0	B	1.7	20	2#12	LGTS, CORRIDOR
23	LGTS, FUTURE OFFICES	2#12	20	2.3	C	.7	20	2#12	EMERG/NIGHT LIGHTS
25	PARKING LOT LIGHTING	2#12	20	2.4	A	.1	20	2#12	EXTER/WALL LGTS, P.O.I.
27	SPACE				B	.8	20		EXTER/WALL LGTS, P.O.I.
29					C	--	20	--	SPACE
31					A				SPACE
33					B				SPACE
35					C				SPACE
37					A				SPACE
39					B				SPACE
41					C				SPACE

TOTAL CONNECTED LOAD: 51.4 KVA 58.7 F.L.A.

PANEL C CIRCUIT SCHEDULE									
		MAIN M.L.O.		SPACES 20		VOLTS 120/208 AMPS 100		PHASE I WIRE 3	
				MOUNTING RECESSED					
CKT	SERVING	WIRE	BREAKER	KVA	Ø	KVA	BREAKER	WIRE	SERVING
1	DED. RPT., TERMINAL	2#12	20	1.0	--	1.0	20	2#12	DED. RPT., TERMINAL
3	DED. RPT., TERMINAL	2#12	20	1.0	--	1.0	20	2#12	DED. RPT., TERMINAL
5	RECEPTACLES	2#12	20	.6	--	1.0	20	2#12	DED. RPT., PLOTTER
7	RECEPTACLES	2#12	20	.6	--	1.0	20	2#12	DED. RPT., PLOTTER
9	DED. RPT., WORKSTATION	2#12	20	1.0	--	1.0	20	2#12	DED. RPT., WORKSTATION
11	DED. RPT., WORKSTATION	2#12	20	1.0	--	1.0	20	2#12	DOWN LIGHTS
13	LGTS	2#12	20	1.3	--	4.3	--	2#10	SPRING 4
15	SPACE				--	2.0	20	2#12	AC-14
17					--	2.0	20	2#12	AC-14
19					--	2.0	20	2#12	AC-14

TOTAL CONNECTED LOAD: 18.8 KVA 21.9 F.L.A.

LIGHTING FIXTURE SCHEDULE					
SYMBOL	MFGR.	MODEL No.	LAMPS	MOUNTING	REMARKS
A	LITHONIA	2GT 440 RH/12 277B	4-40 W	RECESSED	
B	LITHONIA	2GT 440 AL/12 277B	4-40 W	RECESSED	
C	PROGRESS	PG/00004	1-100 W A-19	RECESSED	ON DIMMER SWITCH
D	LITHONIA	2GT 340 AL/12 277B	2-40 W	RECESSED	
E	LITHONIA	2GT 240 RH/12 277B	2-40 W	RECESSED	
F	PROGRESS	P5015	2-75 W	ON WALL ABOVE MIRROR	
G	PROGRESS	P7152-	1-30 W	ON WALL ABOVE MIRROR OR 72" AFF	
H	PROGRESS	P7372	1-22 W	SURFACE	
J	PROGRESS	P716/P60 24/PB 791	1-75 W A-19	SURFACE	RECESSED HOUSING
K	KENALL	20-20-09	1-9 W TWIN TUBE	MOUNT ON WALL 8'6" AFF	
L	HALO	H275-409 P	1-15 W TWIN TUBE	RECESSED	IN CLG. OR SOFFIT
M	HI-TEK	KAS 400 M 3P/277V	1-400 W MH	MT. 25" ABOVE GROUND	SUPPLY TYPE 2 30' CONC. PILE
N	SPAWGLING	PHV-100 DX	1-100 W MV		277V BALLAST
P	SPAWGLING	RK-100 DX	1-175 W MH	MOUNT ON PASAD 12' AFF	277V BALLAST
EM	PROGRESS	PG-025 WBS	2-PAR-36	WALL-MOUNTED 90" AFF	
X	PROGRESS	PG-024 WBS	2-20WTC 1/2		

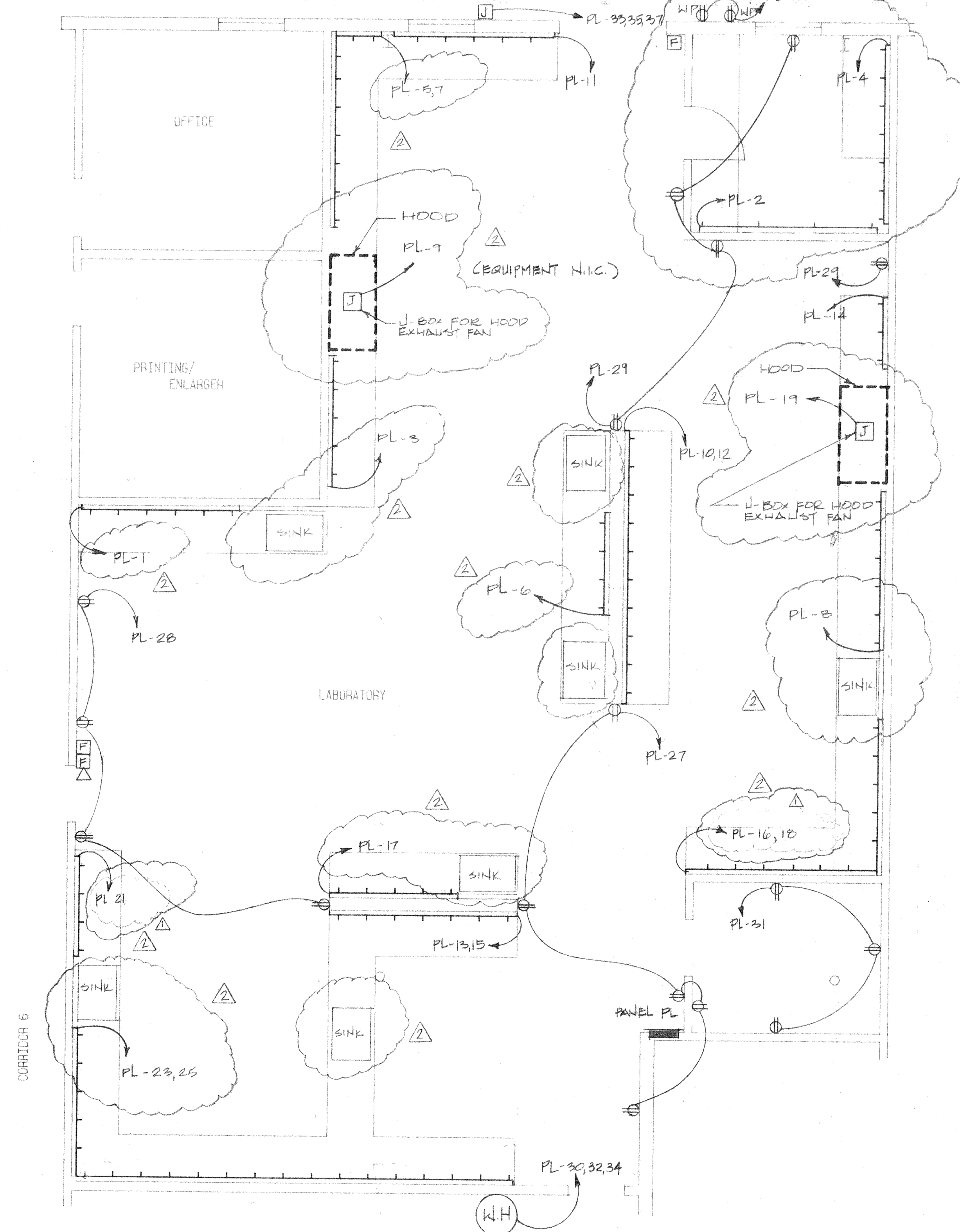


# PANEL PL CIRCUIT SCHEDULE

MAIN M.L.O. SPACES 42  
VOLTS 120/208 AMPS 225/250 PHASE 3 WIRE 4  
MOUNTING RECESSED FRAME

CKT	SERVING	WIRE	BREAKER	KVA	Ø	KVA	BREAKER	WIRE	SERVING	CKT
1	PLUGMOLD, LAB.	2#12	20	1.0	A	1.4	20	2#12	PLUGMOLD, LAB.	2
3	"	2#12	20	1.0	B	1.4	20	2#12	PLUGMOLD, LAB.	4
5	"	2#12	20	1.0	C	1.0	20	2#12	PLUGMOLD, LAB.	6
7	"	2#12	20	1.0	A	1.0	20	2#12	"	8
9	EXHAUST HOOD FAN	2#12	20	0.5	B	1.0	20	2#12	PLUGMOLD, LAB.	10
11	PLUGMOLD, LAB.	2#12	20	1.0	C	1.0	20	2#12	"	12
13	"	2#12	20	.7	A	1.0	20	2#12	PLUGMOLD, LAB.	14
15	"	2#12	20	.7	B	1.0	20	2#12	"	16
17	PLUGMOLD, LAB.	2#12	20	.7	C	1.0	20	2#12	"	18
19	EXHAUST HOOD FAN	2#12	20	0.5	A	1.0	20	2#12	"	20
21	PLUGMOLD, LAB.	2#12	20	.9	B	1.0	20	2#12	AC-7	22
23	"	2#12	20	.9	C	2.0	20	2#12	"	24
25	"	2#12	20	.9	A	—	—	—	"	26
27	RECEPTACLES, LAB.	2#12	20	1.0	B	.8	20	2#12	RECEPTACLES, LAB.	28
29	RECEPTACLES, LAB.	2#12	20	.8	C	6.0	20	2#12	WATER HEATER	30
31	RECEPTACLES, LAB. OFFICE	2#12	20	.6	A	—	—	—	"	32
33	PUMP (CRATED AT 24P)	2#12	20	2.2	B	—	—	—	"	34
35	"	—	—	—	C	.6	20	2#12	COMPRESSOR, VACUUM	36
37	"	—	—	—	A	—	—	—	"	38
39	SPACE	—	—	—	B	—	—	—	"	40
41	"	—	—	—	C	—	—	—	"	42

TOTAL CONNECTED LOAD: 35.5 KVA, 109.6 F.L.A.



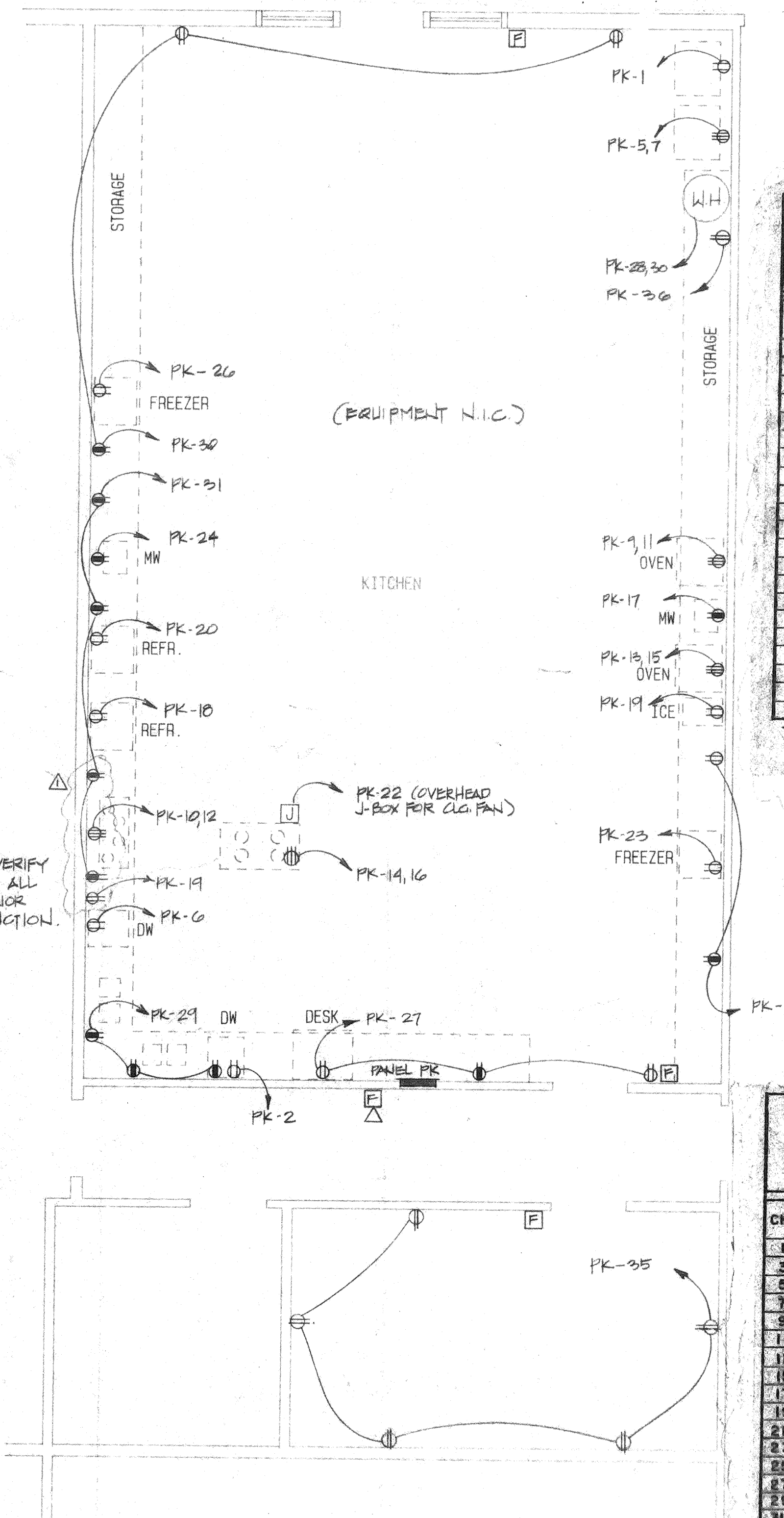
LABORATORY POWER PLAN  
SCALE: 1/4" = 1'-0"

# PANEL PK CIRCUIT SCHEDULE

MAIN M.L.O. SPACES 42  
VOLTS 120/208 AMPS 225/250 PHASE 3 WIRE 4  
MOUNTING RECESSED FRAME

CKT	SERVING	WIRE	BREAKER	KVA	Ø	KVA	BREAKER	WIRE	SERVING	CKT
1	WASHER	2#12	20	1.0	A	.8	20	2#12	DISHWASHER	2
3	SPACE	—	—	—	B	—	—	—	"	4
5	DRYER	2#12	20	2.2	C	—	—	—	DISHWASHER	6
7	"	—	—	—	A	—	—	—	"	8
9	OVEN	2#12	20	5.4	B	12.2	20	2#12	SPACE	10
11	"	—	—	—	C	—	—	—	"	12
13	OVEN	2#12	20	5.4	A	12.2	20	2#12	RANGE	14
15	"	—	—	—	B	—	—	—	"	16
17	MICROWAVE	2#12	20	1.5	C	.8	20	2#12	REFRIGERATOR	18
19	ICE MACHINE	2#12	20	1.2	A	.8	20	2#12	REFRIG.	20
21	SPACE	—	—	—	B	.2	20	2#12	CLG. FAN	22
23	FREEZER	2#12	20	.6	C	1.0	20	2#12	MICROWAVE	24
25	RECEPTACLES	2#12	20	.4	A	.6	20	2#12	FREEZER	26
27	RECEPTACLES	2#12	20	.6	B	12.0	20	2#12	WATER HEATER	28
29	RECEPTACLES	2#12	20	.6	C	—	—	—	"	30
31	SPACE	—	—	—	A	—	—	—	"	32
33	REFRIG. TESTING KITCHEN	2#12	20	1.0	B	.8	20	2#12	RECEPTACLES	34
35	SPACE	—	—	—	C	.2	20	2#12	RECEP. PUMP	36
37	SPACE	—	—	—	A	—	—	—	"	38
39	"	—	—	—	B	—	—	—	"	40
41	"	—	—	—	C	—	—	—	"	42

TOTAL CONNECTED LOAD: 69.6 KVA, 201.2 F.L.A.



KITCHEN POWER PLAN  
SCALE: 1/4" = 1'-0"

## H.V.A.C. EQUIPMENT PANEL SCHEDULES

### PANEL MW CIRCUIT SCHEDULE

MAIN M.L.O. SPACES 42  
VOLTS 120/208 AMPS 225/250 PHASE 3 WIRE 4  
MOUNTING RECESSED

CKT	SERVING	WIRE	BREAKER	KVA	Ø	KVA	BREAKER	WIRE	SERVING	CKT
1	AHU-2	4#10	30	14.6	A	9.8	20	4#10	AC-2	2
3	"	—	—	—	B	—	—	—	"	4
5	"	—	—	—	C	—	—	—	"	6
7	AHU-4	4#10	30	14.6	A	9.8	20	4#10	AC-4	8
9	"	—	—	—	B	—	—	—	"	10
11	"	—	—	—	C	—	—	—	"	12
13	AHU-10	4#10	30	14.6	A	9.8	20	4#10	AC-10	14
15	"	—	—	—	B	—	—	—	"	16
17	"	—	—	—	C	—	—	—	"	18
19	AHU-11	4#10	30	14.6	A	12.0	20	4#10	AC-11	20
21	"	—	—	—	B	—	—	—	"	22
23	"	—	—	—	C	—	—	—	"	24
25	AHU-12	4#10	30	14.6	A	6.5	20	4#10	AC-12	26
27	"	—	—	—	B	—	—	—	"	28
29	"	—	—	—	C	—	—	—	"	30
31	AHU-15	4#10	30	14.6	A	6.5	20	4#10	AC-15	32
33	"	—	—	—	B	—	—	—	"	34
35	"	—	—	—	C	—	—	—	"	36
37	SPACE	—	—	—	A	—	—	—	"	38
39	"	—	—	—	B	—	—	—	"	40
41	SPACE	—	—	—	C	—	—	—	"	42

TOTAL CONNECTED LOAD: 146.2 KVA, 454 F.L.A.

### PANEL ME CIRCUIT SCHEDULE

MAIN M.L.O. SPACES 42  
VOLTS 120/208 AMPS 225/250 PHASE 3 WIRE 4  
MOUNTING RECESSED

CKT	SERVING	WIRE	BREAKER	KVA	Ø	KVA	BREAKER	WIRE	SERVING	CKT
1	AHU-1	4#10	30	14.6	A	6.5	20	4#10	AC-1	2
3	"	—	—	—	B	—	—	—	"	4
5	"	—	—	—	C	—	—	—	"	6
7	AHU-2	4#10	30	14.6	A	11.5	20	4#10	AC-2	8
9	"	—	—	—	B	—	—	—	"	10
11	"	—	—	—	C	—	—	—	"	12
13	AHU-3	4#10	30	14.6	A	10.8	20	4#10	AC-3	14
15	"	—	—	—	B	—	—	—	"	16
17	"	—	—	—	C	—	—	—	"	18
19	AHU-4	4#10	30	14.6	A	9.8	20	4#10	AC-4	20
21	"	—	—	—	B	—	—	—	"	22
23	"	—	—	—	C	—	—	—	"	24
25	AHU-5	4#10	30	14.6	A	11.5	20	4#10	AC-5	26
27	"	—	—	—	B	—	—	—	"	28
29	"	—	—	—	C	—	—	—	"	30
31	AHU-6	4#10	30	14.6	A	9.8	20	4#10	AC-6	32
33	"	—	—	—	B	—	—	—	"	34
35	"	—	—	—	C	—	—	—	"	36
37	SPACE	—	—	—	A	—	—	—	"	38
39	"	—	—	—	B	—	—	—	"	40
41	SPACE	—	—	—	C	—	—	—	"	42

TOTAL CONNECTED LOAD: 146.1 KVA, 453.9 F.L.A.

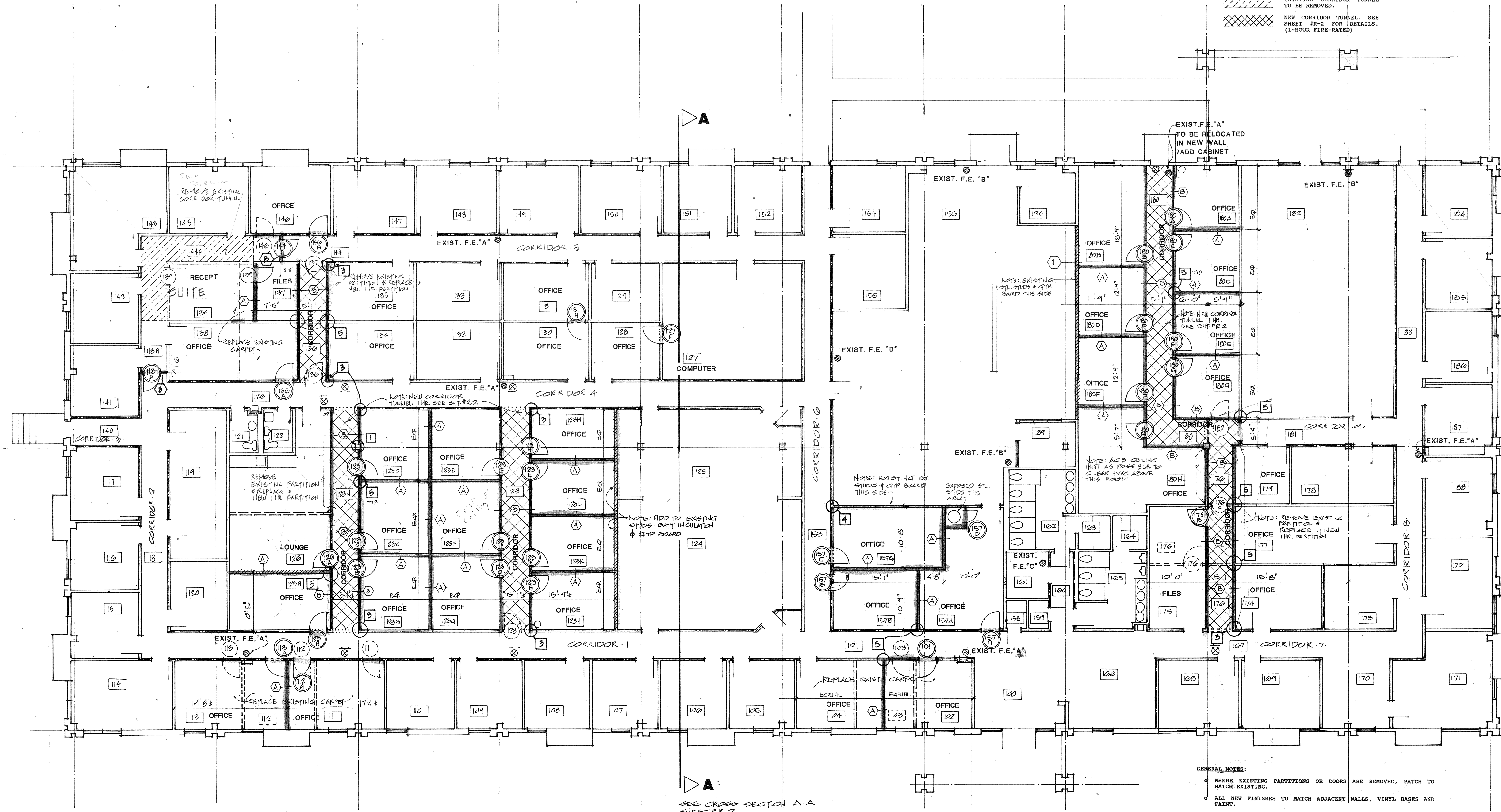


PROPOSED OFFICES FOR DEPARTMENT OF NATURAL RESOURCES  
MINES RECLAMATION AND MARKETING/EXTENSION SERVICES  
INNOVATION PARK  
TALLAHASSEE, FLORIDA



- LEGEND TO FLOOR PLAN**
- EXISTING PARTITION
  - EXISTING PARTITION TO BE REMOVED. PATCH TO MATCH EXISTING.
  - NEW PARTITION
  - EXISTING DOOR
  - EXISTING & NEW 1-HOUR PARTITION
  - NEW DOOR AT EXISTING PARTITION. PATCH TO MATCH EXISTING.
  - REMOVE EXISTING DOOR AND PATCH PARTITION TO MATCH EXISTING.
  - NEW DOOR ADDED OR RELOCATED FROM OLD LOCATION.
  - NEW PARTITION WITH SOUND BLANKET. STC 40 +
  - EXISTING DOOR REMOVED.
  - EXISTING DOOR RELOCATED.
  - NEW DOOR. SEE SCHEDULE & HOLLOW METAL FRAME.
  - ROOM NUMBER
  - WALL TYPE. SEE SHEET R-2.
  - EXISTING CORRIDOR TUNNEL TO BE REMOVED.
  - NEW CORRIDOR TUNNEL. SEE SHEET R-2 FOR DETAILS. (1-HOUR FIRE-RATED)

- INDEX TO DRAWINGS**
- R-1 ARCHITECTURAL FLOOR PLAN, GENERAL NOTES & LEGEND
  - R-2 ARCHITECTURAL FLOOR SCHEDULE, DETAILS & SECTION
  - RM-1 HVAC PLANS & LEGEND
  - RM-2 HVAC SCHEDULE, NOTES & LEGEND
  - RE-1 ELECTRICAL SPECIFICATIONS & NOTES
  - RE-2 LIGHTING PLAN, SCHEDULE & LEGEND
  - RE-3 ELECTRICAL POWER PLAN & NOTES



SEE CROSS SECTION A-A  
SHEET R-2

- FIRE EXTINGUISHER SCHEDULE (EXISTING)**
- F.E.'A' - 2 1/2 GAL. PRESSURIZED WATER POTTER ROEMER FIG.3202
  - F.E.'B' - 5 LB. DRY CHEMICAL POTTER ROEMER FIG.3305
  - F.E.'C' - 5 LB. CO2 POTTER ROEMER FIG.3405
- (MATCH EXISTING FIRE EXTINGUISHER CABINETS)

- GENERAL NOTES:**
- WHERE EXISTING PARTITIONS OR DOORS ARE REMOVED, PATCH TO MATCH EXISTING.
  - ALL NEW FINISHES TO MATCH ADJACENT WALLS, VINYL BASES AND PAINT.
  - REMOVE EXISTING CARPET, ONLY IN RENOVATED AREAS, AND REPLACE WITH NEW CARPET TO MATCH COLOR AND TEXTURE.
  - ALL NEW GYPSUM BOARD 5/8" THICK, TYPE X OR FIRE CODE FIRE-RETARDANT.
  - ALL NEW HARDWARE MUST MATCH EXISTING HARDWARE.
  - AT HALF-LIGHT DOORS, 45-MINUTE LABEL. MUST HAVE LABELED GLASS FRAME EQUAL TO LESLIE LOCKE 1840, 24" X 30".
  - AT ACoustICAL CEILING, BOARDS FOUND TO BE DAMAGED OR SAGGING ARE TO BE REPLACED.
  - REPLACE EXISTING ACoustICAL CEILING BOARD WITH NEW ACoustICAL CEILING BOARD AT AREAS WHERE EXISTING PARTITIONS ARE REMOVED AND NEW PARTITIONS ARE ADDED.

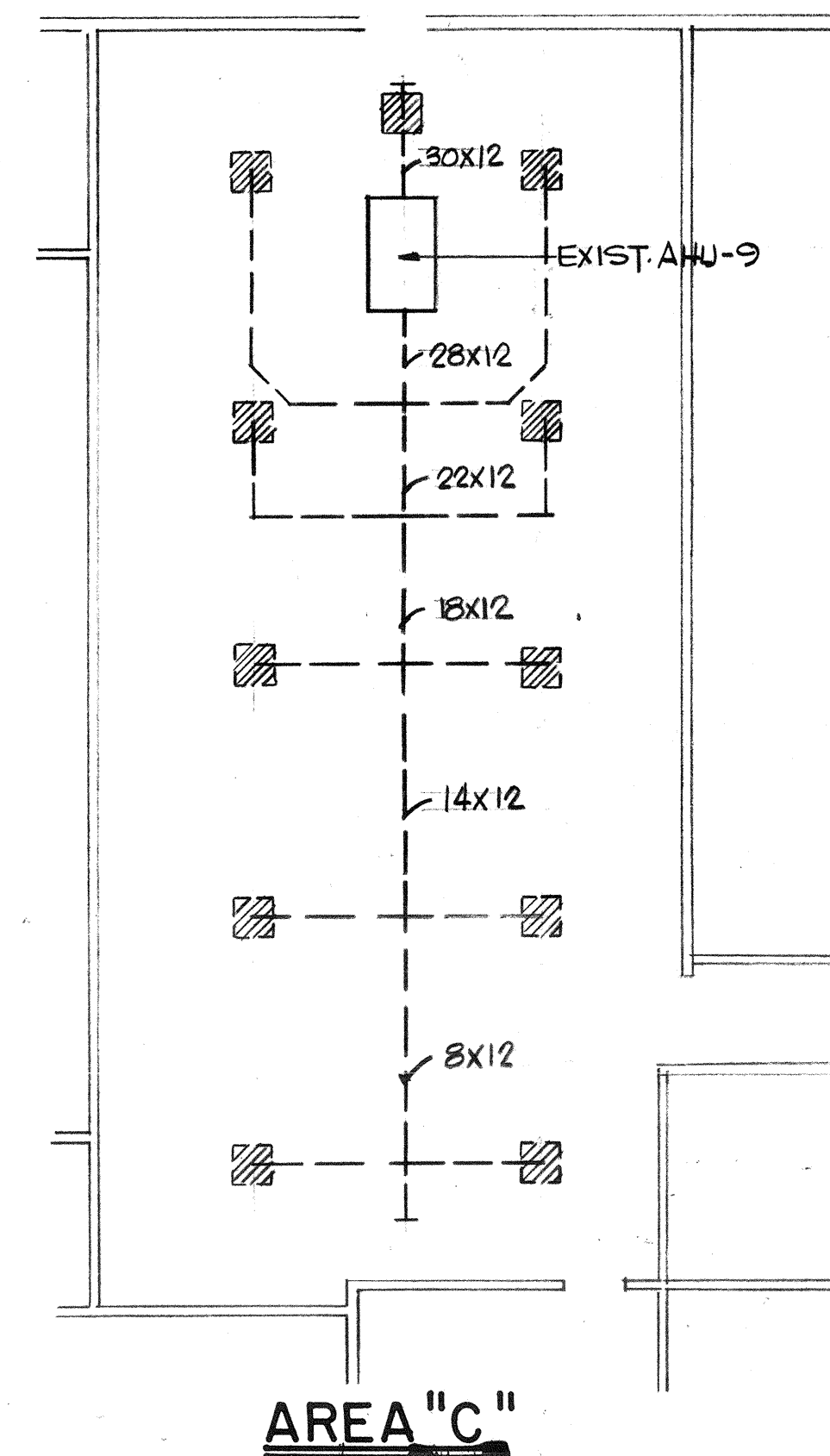
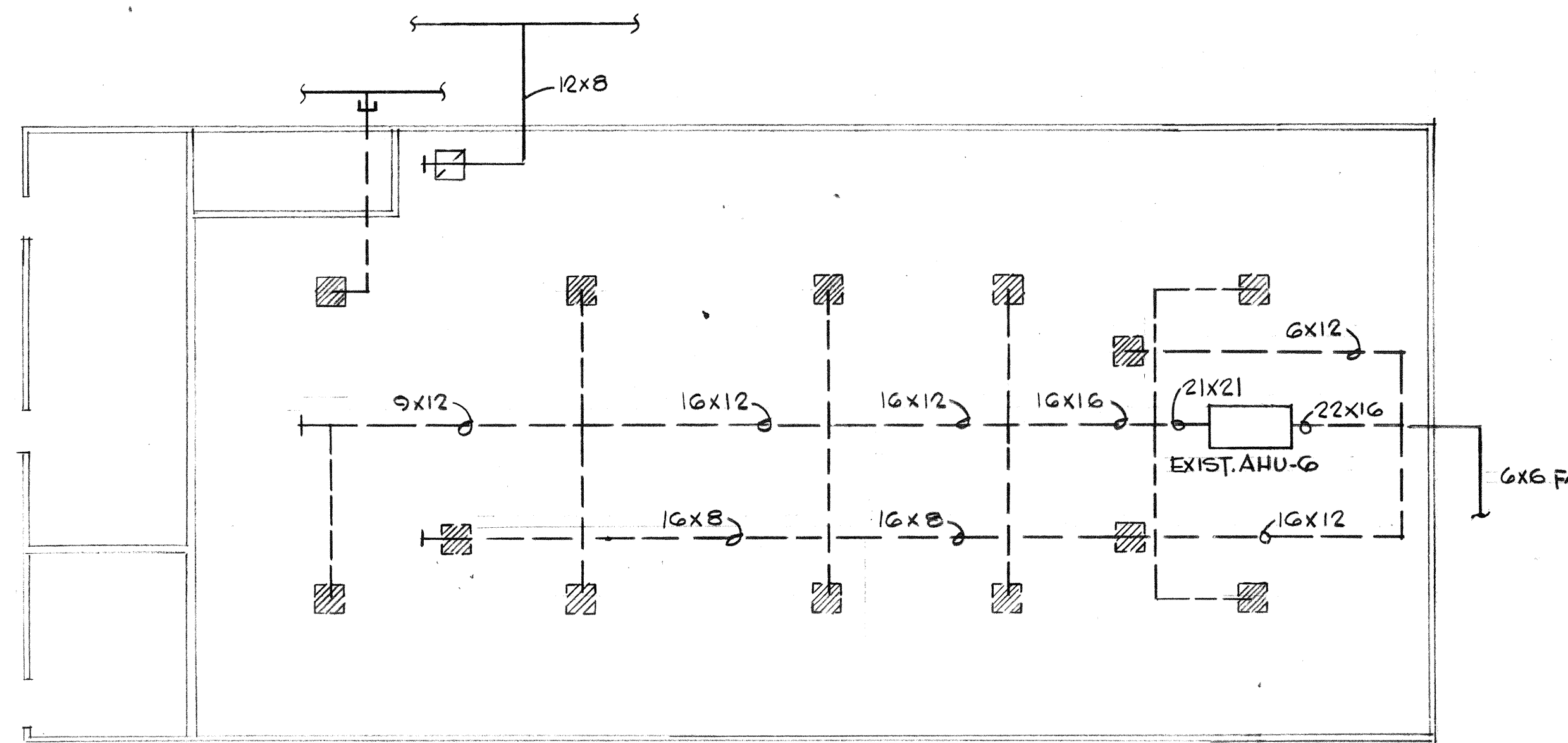
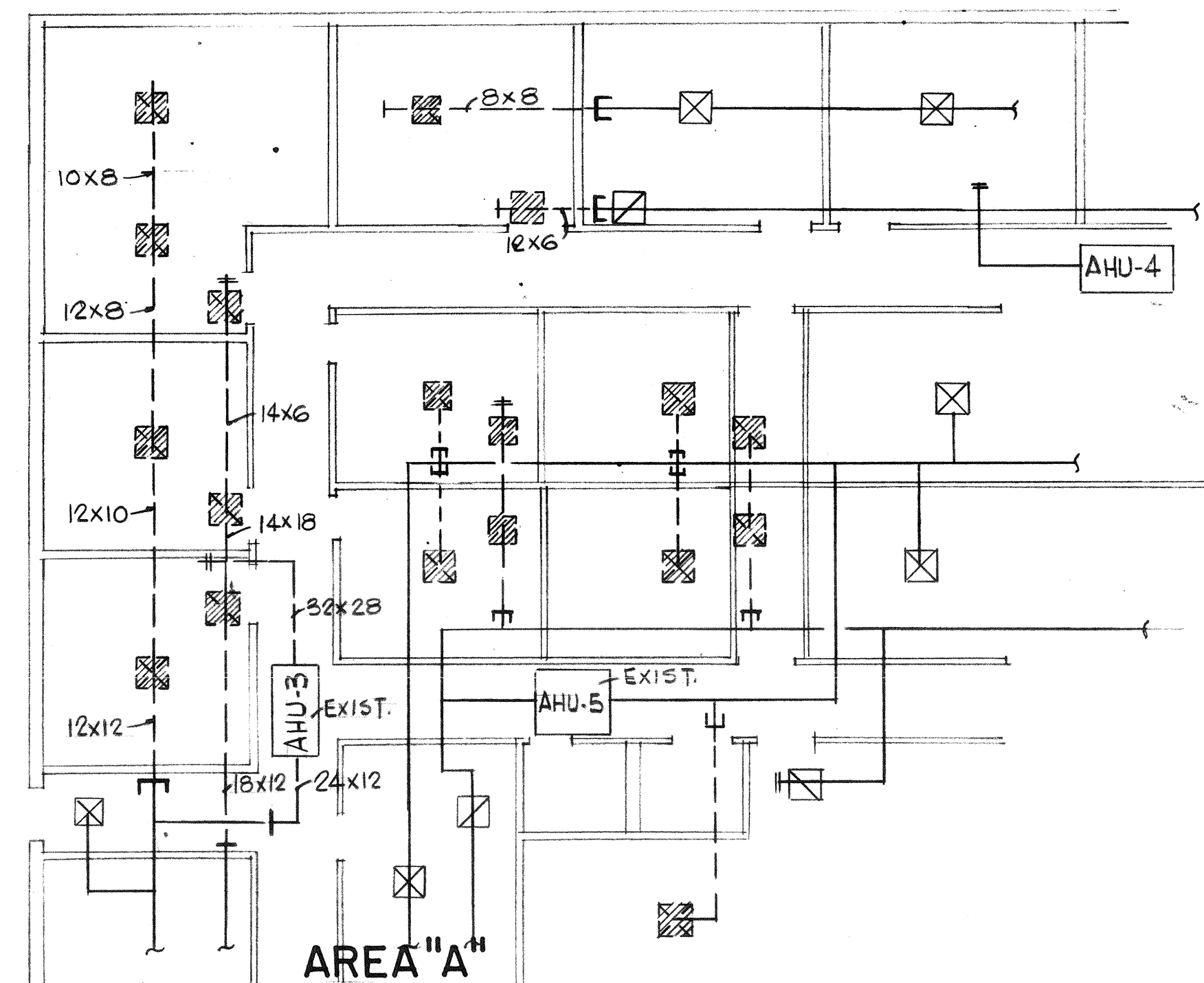
FLOOR PLAN 1/8" = 1'-0"

EXISTING BUILDING IS BUSINESS OCCUPANCY - ONE TENANT.  
SBC-1988 TYPE V UNPROTECTED/ UNSPRINKLER (ONE STORY)  
NFPA-1988 - TYPE III (200)





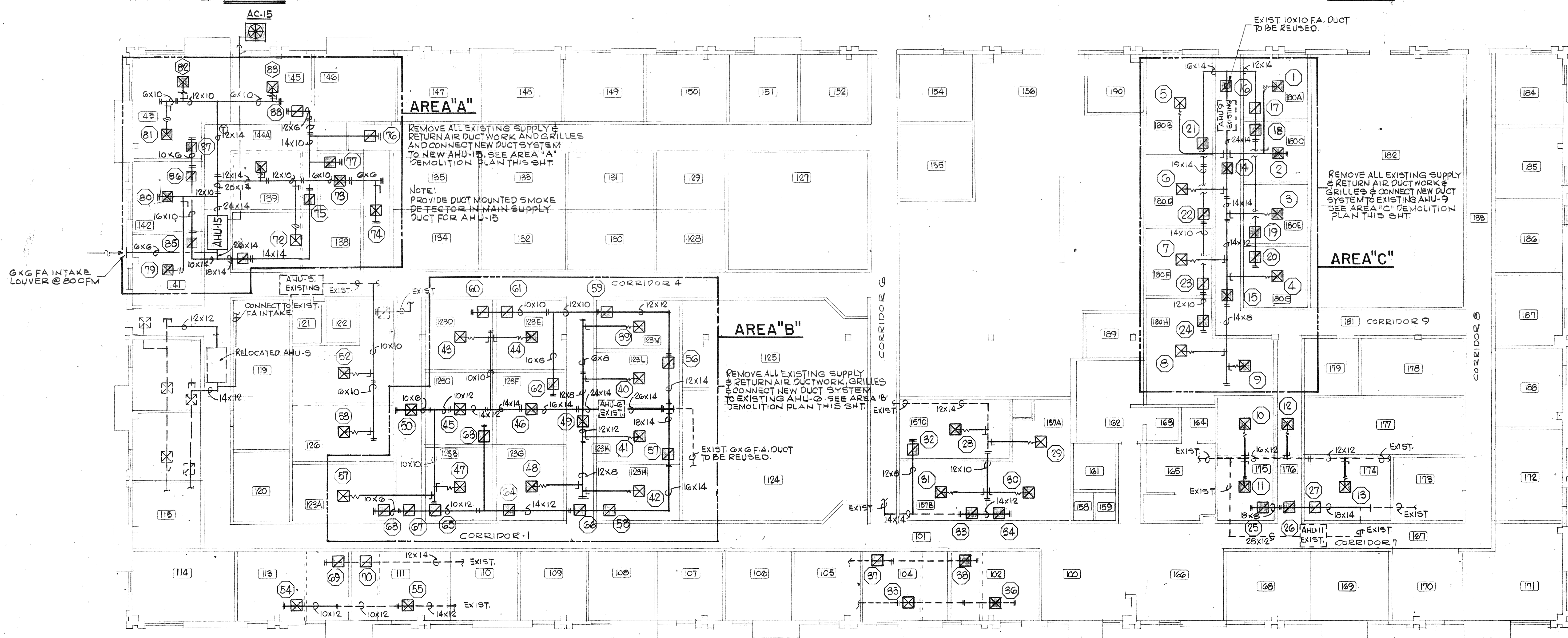




- DEMOLITION LEGEND**
- EXIST. AIR OUTLET TO REMAIN
  - EXIST. AIR OUTLET TO BE REMOVED
  - EXIST. DUCTWORK TO REMAIN
  - EXIST. DUCTWORK TO BE REMOVED
  - EXIST. DUCT TO BE CAPPED

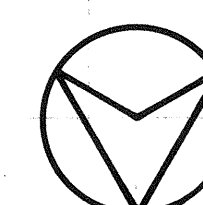
**AREA "B"**  
**H.V.A.C. DEMOLITION PLANS**

**AREA "C"**



- NOTES:**
1. DECREASE AHU-5 SUPPLY AIR VOLUME TO 3600 CFM AND REDISTRIBUTE THE REMAINING 13 DIFFUSERS AT 24 CFM EACH.
  2. REDISTRIBUTE AIR EQUALLY TO REMAINING DIFFUSERS ON AHU-3.

**H.V.A.C. PLAN**  
**SCALE 1/8"=1'-0"**





DIFFUSER, REGISTER & GRILLE SCHEDULE								
SYMBOL	FUNCTION	LOCATION	CFM	FACE SIZE	NECK VELOCITY	NECK SIZE	AIR PATTERN	CEILING TYPE
1	SUPPLY	CEILING	180	9x9	515	8"Ø	4-WAY	GB
2-4	SUPPLY	CEILING	155	9x9	580	7"Ø	4-WAY	GB
5	SUPPLY	CEILING	280	12x12	514	10"Ø	4-WAY	GB
6,7	SUPPLY	CEILING	170	9x9	487	8"Ø	4-WAY	GB
8	SUPPLY	CEILING	275	12x12	500	10"Ø	4-WAY	GB
9	SUPPLY	CEILING	120	9x9	506	7"Ø	4-WAY	GB
10,11	SUPPLY	CEILING	270	12x12	500	10"Ø	4-WAY	GB
12	SUPPLY	CEILING	250	12x12	460	10"Ø	2-WAY	GB*
13	SUPPLY	CEILING	390	15x15	497	12"Ø	4-WAY	GB
14,15	SUPPLY	CEILING	170	9x9	487	8"Ø	2-WAY	GB*
16	RETURN	CEILING	340	10x10	490	10x10	1-WAY	GB*
17	RETURN	CEILING	180	8x8	405	8x8	1-WAY	GB
18-20	RETURN	CEILING	155	8x8	465	8x6	1-WAY	GB
21	RETURN	CEILING	280	10x10	504	10x8	1-WAY	GB
22,23	RETURN	CEILING	170	8x8	510	8x6	1-WAY	GB
24	RETURN	CEILING	395	12x12	475	12x10	1-WAY	GB
25	RETURN	CEILING	340	12x12	540	12x12	1-WAY	GB
26	RETURN	CEILING	250	10x10	450	10x10	1-WAY	GB*
27	RETURN	CEILING	390	12x12	468	12x10	1-WAY	GB
28	SUPPLY	CEILING	270	12x12	500	10"Ø	4-WAY	GB
29	SUPPLY	CEILING	170	9x9	487	8"Ø	4-WAY	GB
30	SUPPLY	CEILING	175	9x9	500	8"Ø	4-WAY	GB
31	SUPPLY	CEILING	185	9x9	530	8"Ø	4-WAY	GB
32	RETURN	CEILING	270	10x10	485	10x8	1-WAY	GB
33	RETURN	CEILING	185	8x8	416	8x8	1-WAY	GB
34	RETURN	CEILING	345	10x10	497	10x10	1-WAY	GB
35,36	SUPPLY	CEILING	312	12x12	572	10"Ø	4-WAY	GB
37,38	RETURN	CEILING	312	10x10	450	10x10	1-WAY	GB
39	SUPPLY	CEILING	135	9x9	569	7"Ø	4-WAY	GB
40-42	SUPPLY	CEILING	155	9x9	580	7"Ø	4-WAY	GB
43-48	SUPPLY	CEILING	160	9x9	458	8"Ø	4-WAY	GB
49,50	SUPPLY	CEILING	125	9x9	527	7"Ø	2-WAY	GB*
51,52	SUPPLY	CEILING	190	9x9	545	8"Ø	4-WAY	GB
53	SUPPLY	CEILING	195	9x9	560	8"Ø	4-WAY	GB
54,55	SUPPLY	CEILING	396	15x15	505	12"Ø	4-WAY	GB
56-58	RETURN	CEILING	155	8x8	465	8x6	1-WAY	GB
59	RETURN	CEILING	135	8x8	405	8x6	1-WAY	GB
60-65	RETURN	CEILING	160	8x8	490	8x6	1-WAY	GB

DIFFUSER, REGISTER & GRILLE SCHEDULE								
SYMBOL	FUNCTION	LOCATION	CFM	FACE SIZE	NECK VELOCITY	NECK SIZE	AIR PATTERN	CEILING TYPE
66,67	RETURN	CEILING	125	6x6	500	6x6	1-WAY	GB*
68	RETURN	CEILING	190	8x8	430	8x6	1-WAY	GB
69,70	RETURN	CEILING	396	12x12	475	12x10	1-WAY	GB
71	SUPPLY	CEILING	340	15x15	433	12"Ø	4-WAY	GB
72	SUPPLY	CEILING	280	12x12	515	10"Ø	4-WAY	GB
73	SUPPLY	CEILING	80	6x6	410	6"Ø	4-WAY	GB
74	SUPPLY	CEILING	100	6x6	510	6"Ø	2-WAY	GB*
75	RETURN	CEILING	400	12x12	400	12x12	1-WAY	GB
76	RETURN	CEILING	135	8x8	405	8x6	1-WAY	GB*
77	RETURN	CEILING	100	6x6	400	6x6	1-WAY	GB
78	RETURN	CEILING	300	10x10	432	10x10	1-WAY	GB
79	SUPPLY	CEILING	210	9x9	600	8"Ø	4-WAY	GB
80	SUPPLY	CEILING	200	9x9	572	8"Ø	4-WAY	GB
81,82	SUPPLY	CEILING	185	9x9	530	8"Ø	4-WAY	GB
83	SUPPLY	CEILING	210	9x9	600	8"Ø	4-WAY	GB
85	RETURN	CEILING	210	8x8	472	8x8	1-WAY	GB
86	RETURN	CEILING	200	8x8	450	8x6	1-WAY	GB
87	RETURN	CEILING	370	10x10	530	10x10	1-WAY	GB
88	RETURN	CEILING	210	8x8	472	8x8	1-WAY	GB

\*STEEL WITH 1/2" H.R. FIRE DAMPER

#### MECHANICAL NOTES

- DUCTWORK, DAMPERS, LOUVERS, GRILLES, REGISTERS, DIFFUSERS AND OTHER AIR DISTRIBUTION EQUIPMENT AND MATERIALS SHALL CONFORM TO ASHRAE, SBCCI STANDARD MECHANICAL CODE, 1988 EDITION AND NFPA-90A.
- A COMPLETE TEST AND BALANCE REPORT, OF AFFECTED AREAS, SHALL BE SUPPLIED BY THIS CONTRACTOR, IN WRITING, PER AABC TEST AND BALANCE REPORT MANUAL.
- EQUIPMENT ON SCHEDULES ARE BASIS OF DESIGN ONLY; OTHER MANUFACTURERS MAY BE APPROVED AT REVIEW BY THE ENGINEER, HOWEVER, CONTRACTOR SHALL VERIFY AND SHOW IN WRITING THAT SUBMITTED EQUIPMENT, DIFFERENT FROM THAT SPECIFIED, WILL FIT INTO THE ALLOTTED SPACE AS SHOWN ON THE PLANS.
- ALL DUCT SIZES SHOWN ARE CLEAR NET INSIDE DIMENSIONS.
- ALL DUCTWORK SHALL BE AIRTIGHT AND FREE OF LEAKS AND SHALL BE INSPECTED FOR LEAKS PRIOR TO INSTALLATION OF FINISHED CEILING SYSTEM.
- ALL DUCTWORK TO BE GALVANIZED METAL WITH 2" EXTERNAL INSULATION.
- FLEXIBLE DUCTS MUST COMPLY WITH UL 181 AND SHALL NOT EXCEED 10' IN LENGTH.
- ALL DUCTS TO HAVE AIR EXTRACTORS (ADJUSTABLE TYPE) ON SQUARE, OR RECTANGULAR TAKE-OFFS WITH VOLUME DAMPERS ON ROUND TAKE-OFFS.
- SQUARE/RECTANGULAR 90 DEGREE AND 45 DEGREE ELBOWS SHALL HAVE "AIR-FOIL" TYPE TURNING VANES; PER SMACNA STANDARDS.
- REFRIGERANT PIPING TO BE SIZED IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
- INSULATE REFRIGERANT PIPING WITH 3/4" "ARMAFLEX" OR APPROVED EQUAL.
- CONTROLS AND CONTROL WIRING FOR HVAC SYSTEMS AND RELATED WORK SHALL BE UNDER THIS CONTRACTOR.
- INSTALL FLEXIBLE DUCT CONNECTORS AT THE AIR HANDLING UNIT.
- CONDENSATE DRAIN FOR AHU-15 TO TERMINATE INTO APPROVED FRENCH DRAIN OR DRYWELL; PER SBCCI STANDARD MECHANICAL CODE.
- PROVIDE BACKDRAFT DAMPERS AND BALANCING DAMPERS IN THE FRESH AIR INTAKE.
- CEILING SUPPLY DIFFUSERS AND RETURN AIR GRILLES TO MATCH THE EXISTING.
- THERMOSTAT TO BE HONEYWELL MODEL Y594R MANUAL CHANGEOVER THERMOSTAT/ SUBBASE PACKAGE. MOUNT THERMOSTAT 5 FEET ABOVE FINISHED FLOOR. PROVIDE A LOCKING COVER.
- REINSTALL DUCT MOUNTED SMOKE DETECTORS FOR AHU-6 AND AHU-9 IN NEW MAIN SUPPLY AIR DUCTS.

MECHANICAL LEGEND	
	SUPPLY DIFFUSER
	RETURN OR EXHAUST GRILLE
	THERMOSTAT
	FLEXIBLE DUCT
	BALANCING DAMPER
	EXISTING DUCTWORK
	NEW DUCTWORK
AHU	AIR HANDLING UNIT
AC	CONDENSING UNIT

HEAT PUMP SCHEDULE	
SYMBOL	AHU-1, AC-1
LOCATION, AHU	CEILING
SERVICE	NEW RENOVATION
MAKE	TRANE
MODEL AHU	TW4060P150A
MODEL AC	TW4060A300A
FAN CFM	2000
EXT S.P.	.43
H.P.	3/4
AHU KW	4.60
VOLTS	208
PHASE	1
M.C.A.	27.6
AC VOLTS	208
PHASE	3
M.C.A.	25.2
COOLING CAP	
TOTAL	57.5 MBTUH
SENSIBLE	42.0 MBTUH
EER @95 F	8.25
HEATING CAP	
TOTAL	59.2 MBTUH
COP @47 F	3.12
FRESH AIR (CFM)	80
WT. AHU	212 lbs
WT. AC	314 lbs

PROVIDE 24 GA AUX DRAIN PAN WITH FLOAT SWITCH

Wendle & Associates  
VALDOSTA, GA (912) 245-7842  
TALLAHASSEE, FL (904) 893-0855

DEPARTMENT OF NATURAL RESOURCES RENOVATION

2051 EAST PAUL DIRAC DRIVE  
INNOVATION PARK

TALLAHASSEE, FLORIDA

revisions:  
date: 10/15/81  
by: [signature]  
drawn: [signature]  
check: [signature]  
view: [signature]

RM-2

of 2 of 7  
CR&A

CLEMONS, RUTHERFORD  
& ASSOCIATES, INC.  
ARCHITECTS & PLANNERS  
2027 THOMASVILLE ROAD, TALLAHASSEE, FLORIDA 32312 (904) 385-6153



## SPECIFICATIONS

### PART 1 - GENERAL

#### 1.01 SCOPE OF WORK

- The terms "The Contractor," "The Installer," or "The Electrical Contractor" mentioned in these specifications and accompanying drawings refer to the Contractor responsible for the work included in these specifications and/or shown on the electrical drawings.
- The general and/or special conditions sections are a part of this specification and the Contractor shall consult them in detail for instructions pertaining to this work.
- The work under this section shall include the furnishing of all labor, material, equipment, supplies, and services necessary to construct and install the complete electrical systems as shown on the drawings and any and all materials or work that may be necessary for the complete installation as intended.

#### 1.02 DESCRIPTION OF WORK

The work to be done under these specifications and the accompanying drawings shall include but shall not be limited to the following items:

- Furnish and install all lighting fixtures as shown within the boundaries of area of work on the Lighting Plan.
- Furnish all distribution conductors, raceways, disconnect switches, devices, and other electrical hardware to modify existing electrical systems to serve new lighting, power loads, telephone systems, and computer data systems.
- Furnish and install telephone outlets in locations shown, with conduit and pull wire to telephone backboard for future installation of telephone system (by others).
- Furnish and install computer data outlets in locations shown. Outlets are to be recessed wall-mounted with conduit and pull wire to ~~TELEPHONE~~ COMPUTER CEILING.
- Provide complete testing of all electrical systems and assurance that all equipment and systems are functioning properly.

#### 1.03 DUTIES OF CONTRACTOR

- The contracting firm or corporation making a bid on this project shall have all required licenses in accordance with local and state regulations which qualify them to legally perform such work.
- All systems shall be installed as specified hereinafter, and where not specifically indicated or specified, shall be in accord with manufacturer's standard installation procedures. Contractor shall install all equipment and circuits in accord with generally accepted standards of workmanship and shall reinstall or revise any work which in the sole opinion of the Architect or Engineer does not meet that minimum standard.
- The Contractor shall leave the premises in a clean and orderly manner during construction and upon completion of the work, and shall remove all debris that accumulates due to his work during the job.
- It shall be the duty of the Contractor to familiarize himself with the details of the general construction of the building and shall cooperate with other trades in making the installation of these systems as the job progresses.
- Before submitting bids, each bidder should visit the site and fully familiarize himself with all job conditions and shall be fully informed as to the extent of his work. No consideration will be given after bid opening date for alleged misunderstanding as to the requirements of work involved in connecting to the utilities or as to requirements of materials to be furnished. Bids should be based on written plans and specifications, and not on verbal agreements.
- The installation shall comply with all State and Federal laws and ordinances applicable to electrical installation and with the regulations and the latest edition of the published National Electrical Code where such regulations do not conflict with those laws and ordinances.

#### 1.04 SUBMITTALS

The Contractor shall submit within 15 days from the contract date a list of principal materials items, giving manufacturers' names and catalog cuts. Approval of the submittal data shall be obtained from the Engineer before orders are placed. Submittal is required on the following: lighting fixtures, disconnect switches, and/or other items for which such information is requested or requested by the Engineer or Architect. Seven (7) copies of all submittals are

required. Each set is to be separately bound, with Table of Contents, and a blank sheet for approval stamp.

#### 1.05 OPERATING AND MAINTENANCE MANUALS

At completion of the work, the Contractor is to furnish three (3) copies of written operation instructions which shall include manufacturer's descriptive bulletins, operating and maintenance manuals, and parts lists of all equipment installed. Literature shall include record shop drawings, wiring diagrams, instruction sheets, warranties, contact persons, and telephone numbers for service providers for all equipment furnished by this Contractor. Also include in such instruction the specified size and capacity ratings of all equipment installed. Each set of instructions shall be assembled into a suitable loose-leaf type binder and presented to the Architect for delivery to the Owner.

#### 1.06 GUARANTEE

- Contractor shall furnish written warranty that all systems have been installed complete and are functioning properly and that all materials and workmanship are free of defects.
- Upon completion of all test and acceptance, the Contractor shall furnish the Owner a written guarantee covering the electrical work done for a period of one (1) year from the date of acceptance. Upon notice from the Architect to the Contractor, the Contractor shall, during the guarantee period, rectify and replace any defective material or workmanship, and repair any damage caused thereby, without additional cost.

### PART 2 - PRODUCTS

#### 2.01 MATERIALS AND WORKMANSHIP

- All equipment of like kind shall be of one manufacturer and shall be installed in strict accordance with the manufacturer's specifications and recommendations.
- The Contractor shall base his proposal on the materials specified herein and on the drawings. Reference to a particular project by manufacturer, trade name, or catalog number establishes the product quality required by the Engineer.
- All materials and equipment installed on this project shall be new and shall be standard products of manufacturers regularly engaged in the manufacture of such products and shall be the manufacturer's latest design.
- All materials and equipment shall be listed as approved by the Underwriters' Laboratories, Inc. (UL).
- All exterior electrical equipment shall be weatherproof.

#### 2.02 RACEWAYS

- Conduit is to be 1/2" unless indicated otherwise. Use is restricted as indicated by product.
  - Galvanized rigid steel conduit (RSC) -- may be used in all areas.
  - Galvanized intermediate metallic conduit (IMC) -- may be used in indoor locations not in contact with earth (at least 6" above earth).
  - Galvanized electrical metallic tubing (EMT) -- may be used in indoor dry locations where it is:
    - not subject to damage.
    - not in contact with earth (at least 6" above grade).
    - not in concrete slabs on grade.
  - Flexible steel conduit -- 1/2" minimum:
    - Use in indoor final connections to mechanical equipment, not to exceed 36".
    - May be used in indoor connections to mechanical equipment, not to exceed 36".
  - Liquid-tight flexible steel conduit -- use in indoor final connections to mechanical equipment, not to exceed 36".
  - Surface-mounted wiremold may be used where it is impossible to conceal raceways under floors, in walls, or above ceiling.
- EMT fittings shall be compression or set-screw steel housing type.
- Use of the following is prohibited:
  - Aluminum conduit.
  - EMT crimp-on, tap-on, indenter-type fittings.
  - EMT malleable iron or cast set-screw fittings.
  - PVC conduit.

#### 2.03 WIRE AND CABLE

- Includes all conductors except cables for temperature control system, telephone, and other similar low-voltage systems.

- All conductors are to be copper.
  - Minimum size shall be no. 12 AWG unless specified otherwise.
  - conductor size no. 8 and larger shall be stranded.

- Insulation (local codes shall apply): All conductors to be type THW or THHN. Branch circuit conductors which run through ballasts compartments of lighting fixtures shall be code-approved for such use.

- Install all conductors in raceway unless indicated otherwise.

- Make splices for conductors no. 8 and smaller with steel spring wire connections. Splice larger conductors with pressure-type terminal lugs.

- Route circuits at own discretion; however, circuit numbers shall be according to drawings.

#### 2.04 WIRING DEVICES

- Switches and Receptacles:
  - Switches and receptacles listed are 15 ampere and switches single pole, and are to be spec grade, side wired only, with screw fastener. Where 3-way, 2-pole, or higher ampere switches are required, they shall be of same series as those listed.
  - Approved Manufacturers Switches Receptacles  
General Electric 5901-2 5262-1  
Hubbell 1101-I 5262-1  
Leviton 1101-I 5262-1

- Plates:
  - Nylon, fiberglass, or unbreakable plastic.
  - Regular heavy plastic may be used only for gang plates more than 2 gang.
  - Device, telephone, and switch plates shall be smooth-style and ivory in color where located on light-colored walls, and brown on dark walls unless directed otherwise by Architect.
  - Gang switches shall have gang plates.

#### 2.05 OUTLET BOXES

- Concealed work -- outlet boxes for use in concealed work shall be galvanized or sheared steel/steel boxes, at least 1-1/2" deep and of sufficient size to accommodate devices and conductors to be installed therein. Boxes or their covers shall be mounted flush with the finished wall or ceiling. Boxes shall be as manufactured by Steel City or Raco.
- Wall switches, receptacles, and telephone outlets -- may be sectional-type switch boxes, 2-1/2" deep or deeper as required by conduits, devices, and conductors installed in same.
- Ceiling and wall bracket outlets shall be 4" octagonal boxes not less than 1-1/2" deep.

#### 2.06 FIXTURES

Use fixtures as specified in the Lighting Fixture Schedule on the plans.

### PART 3 - EXECUTION

#### 3.01 INSTALLATION

- Workmanship shall be highest quality and the Architect and/or Engineer shall determine where work is inferior; Contractor shall correct all work not approved by the Architect and/or Engineer until work is acceptable. This corrective work will be performed by the Contractor at no additional cost to the Owner.
- Install conduit and other raceways straight and true, aligned with other work, close to walls and/or overhead structure.
- Contractor is to verify all door swings with architectural drawings before roughing in switches; and verify exact location of all equipment before roughing in.
- Contractor will check all lighting fixtures for exact type mounting and space required before roughing in. Support of all lighting fixtures is the responsibility of this Contractor. Fixtures are to be supported independent of ceiling from structural members of the building. Provide plaster rings as needed for light fixtures.

#### 3.02 MOUNTING HEIGHTS

Mount center of outlets or boxes at following heights above finish floor (A.F.F.), unless otherwise noted:  
Receptacles 14"  
Telephones 14"  
Switches 44"  
Disconnect Switches 4'-8" to top

## ELECTRICAL NOTES


- All wiring and branch circuits are to be in accordance with the latest editions of the National Electrical Code, NFPA, accompanying specifications, and the following design criteria:
  - All wiring to be installed in metallic conduit.
  - All conduit exposed to weather shall be galvanized heavy wall steel conduit.
  - Wire rated at 90 degrees "C" is required for all incandescent light fixtures.
  - No wiring smaller than #12 AWG shall be used for any lighting or receptacle circuit.
  - If distance from electrical panel to any fixture connected to a circuit exceeds 70 feet, use one trade size larger, but not smaller than #10 AWG.
  - All conductors are to be copper, type THW or THHN.
  - All wiring is to be concealed within slab, walls, or above ceiling. Secure raceways to overhead when installed above ceiling; do not allow raceways to be loose above ceiling.
  - No conduit is to be installed on exterior of building. N.E.C. requirements regarding pipe fill and conductors inside panels shall be loosely banded to allow for ventilation of conductors.
- The contractor is responsible for acquiring permits for this construction and scheduling appropriate inspections during construction with the authority having jurisdiction.
- Verify that existing ground systems are maintained. Raceways are to be bonded to ground bar in each existing panel. Verify 5 ohms maximum resistance to ground. If 5 ohms resistance is exceeded, notify Architect or Engineer to repair at no additional expense to owner.
- All disconnects, panels, junction boxes, and meter cans shall be painted to blend with the walls on which they are mounted. The electrical contractor is to assure that such painting is accomplished.
- Contractor is to contact the local telephone company regarding installation of telephone mains. Contractor is to provide conduit and pull wire to each outlet from telephone backboard.
- Any conduit penetrating the roof or walls is to have water-tight flashing, and paint to restore penetration to original condition and appearance.
- All exterior electrical equipment shall be weatherproof.

- Verify the installation of a disconnect switch at each air handling unit and each A/C condenser per N.E.C. If not installed, one must be installed. Size and number of poles will be the same as circuit breaker in panel schedules.
- All materials shall be listed by the Underwriters Laboratories, Inc. (UL).
- Electrical contractor is to coordinate with mechanical contractor to avoid conflicts between locations of diffusers, light fixtures, ceiling fans, smoke/heat detectors, and/or fire sprinkler heads.
- Connect exit lights to line side of main disconnect switch, through a 20 amp single pole disconnect switch.
- All receptacles and light switches are to be spec grade wiring devices, side wired only, with screw fastener.
- All wiring devices to match existing equipment in existing building.
- The mechanical contractor is to provide all low voltage control wiring for all HVAC systems. Electrical contractor is to provide power source for all control systems.
- Contractor is to verify all door swings with architectural drawings before roughing in switches; and verify exact location of all motors and equipment before roughing in.
- The electrical contractor shall verify the exact location of counter tops and backslashes on architectural details and/or casework shop drawings and adjust specified mounting height of wall outlets as required to avoid conflicts with counter backslashes.
- Contractor will check all lighting fixtures for exact type mounting and space required before roughing in. Support of all lighting fixtures to be the responsibility of this contractor. Fixtures to be supported independent of ceiling from structural members of the building. Provide plaster rings as needed for light fixtures.
- A single neutral may be provided for three branch circuits fed from different phases.
- Each panel is to be furnished with a typed directory, to reflect all changes specified in these drawings.
- Care must be taken to stagger installation of wall receptacle boxes so that they are not back-to-back.
- All light fixtures are to be equipped with new lamps. All fluorescent fixtures are to be equipped with energy efficient lamps and electronic ballasts. Lamps shall be G.E. Maxi-Miser II, or equal. Ballasts shall be G.E. Maxi-Miser, Advanced Mark II, Universal Watt Reducer, or equal.
- Materials removed from the facility as part of this project are to be turned over to the Owner's representative.
- Refer to Plans for original construction of this building, by Clemons Rutherford and Associates, Inc., November 3, 1986, Project No. 86105.

## SCOPE OF WORK

- Furnish and install lighting fixtures as shown within the "Boundaries of Area of Work" shown on the lighting plan.
- Furnish and install all distribution conductors, raceways, switches, receptacles, device boxes, junction boxes, disconnect switches, and other electrical hardware to modify existing electrical systems in accordance with these plans and accompanying specifications.
- Furnish and install telephone outlets in locations shown on power plan. Provide recessed outlet box, cover plate, conduit, and pull wire to telephone backboard.
- Furnish and install computer data outlets in locations shown on power plan. Provide recessed outlet box, conduit, and pull wire to 5' above the suspended ceiling.
- Provide complete testing of all electrical systems and assurance that all equipment and systems are functioning properly.

NOTE: COORDINATE INSTALLATION OF COMPUTER DATA TERMINAL OUTLET BOXES WITH JACK WOODWARD, TELEPHONE 488-3177

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**CLEMONS RUTHERFORD & ASSOCIATES, INC.**  
ARCHITECTS & PLANNERS  
2027 THOMASVILLE ROAD, TALLAHASSEE, FLORIDA 32312 (904) 386-6163

DEPARTMENT OF NATURAL RESOURCES RENOVATION  
2051 EAST PAUL DIRAC DRIVE  
INNOVATION PARK  
TALLAHASSEE, FLORIDA

date: 10-18-89  
drawn: JAW  
check: H.A.D.

RE-1

of 3 of 7  
CR&A



LIGHTING FIXTURE SCHEDULE						
SYMBOL	MFR. & MODEL OR APPROVED EQUAL	LAMPS				REMARKS
		TYPE	NO.	WATTS	VOLTS	
A	LITHONIA 2GT-440-RN-A12-277ES	FLUOR CW	4	34	277	RECESSED
E	LITHONIA 2GT-240-RN-A12-277ES	FLUOR CW	2	34	277	RECESSED
H	PROGRESS P7372	FLUOR CW	1	22	277	SURFACE
EX	PROGRESS P6025WB	PAR-36	2	-	277	WALL 90" A.F.F.
EM	PROGRESS P6028WB	INCL	2	20	277	WALL 7'-0" AFF

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
	RECESSED FLUORESCENT FIXTURE. SEE LIGHTING FIXTURE SCHEDULE. HALF-SHADED FIXTURE INDICATES ADDITIONAL EMERGENCY BATTERY.
	CEILING-MOUNTED (SURFACE OR RECESS) INCANDESCENT OR H.I.D. FIXTURE, SEE SCHEDULE.
	EMERGENCY BATTERY LIGHT; SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE EM.
	EXIT LIGHT; SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE EX.
	FLUSH-MOUNTED SINGLE-POLE SWITCH. MOUNT AT 44" A.F.F.
	FLUSH-MOUNTED THREE-WAY SWITCH OR FOUR-WAY SWITCH.
	FLUSH-MOUNTED DUPLEX CONVENIENCE RECEPTACLE WITH GROUND, NEMA 5-15. CENTER 14" A.F.F. OR AS NOTED.
	CONVENIENCE DUPLEX RECEPTACLE. MOUNT AT 12" ABOVE COUNTERTOP. (WP=WEATHERPROOF, G=CONNECTED TO GROUND FAULT INTERRUPTER CIRCUIT)
	TELEPHONE OUTLET. CENTER AT 14" A.F.F. UNLESS OTHERWISE NOTED.
	DISCONNECT SWITCH. SIZED FOR LOAD.
	AIR HANDLING UNIT OR CONDENSING UNIT. SEE MECHANICAL SHEETS FOR SPECIFICATIONS.
	COMPUTER DATA TERMINAL. RECESSED DEVICE BOX WITH CONDUIT AND PULL WIRE TO 3 INCHES ABOVE SUSPENDED CEILING.
	DENOTES EXISTING DEVICE.
	EXISTING CONDUCTORS IN CONDUIT.



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

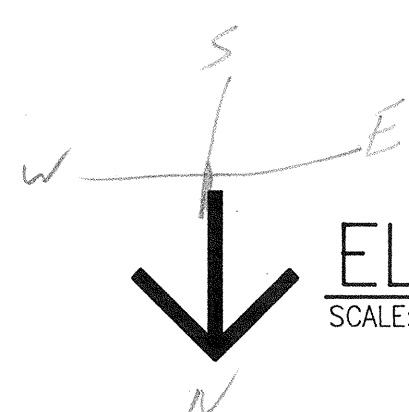
NOTE: AREAS NOT INCLUDED ON THIS DRAWING ARE NOT AFFECTED BY THIS PROJECT, EXCEPT FOR EXIT LIGHTS REQUIRED BY THE ESTABLISHMENT OF NEW CORRIDOR TUNNELS.

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NOTE: THE ADDITIONAL AC AND AHU 15 LOCATED IN THE SUITE AREA IS TO BE SERVED FROM PANEL ME. ADD A 30 AMP, 2 POLE BREAKER W/ 3#10 FOR AHU-15 IN CKTS. 37,39 & A 30 AMP, 3 POLE BREAKER W/ 4#10 FOR AC-15 IN CKTS. 38,40,42. LOCATE DISCONNECT SWITCHES AS SHOWN ON PLANS.



# ELECTRICAL POWER PLAN

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

NOTE: AREAS NOT INCLUDED WITHIN THE BOUNDARY OF AREAS OF WORK ON THIS DRAWING ARE NOT AFFECTED BY THIS PROJECT, EXCEPT AS NOTED. EXCEPTIONS INCLUDE COMPUTER DATA OUTLETS IN NUMEROUS ROOMS.

date	revisions
02.22.02	1.0
02.22.02	2.0
02.22.02	3.0
02.22.02	4.0
02.22.02	5.0
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