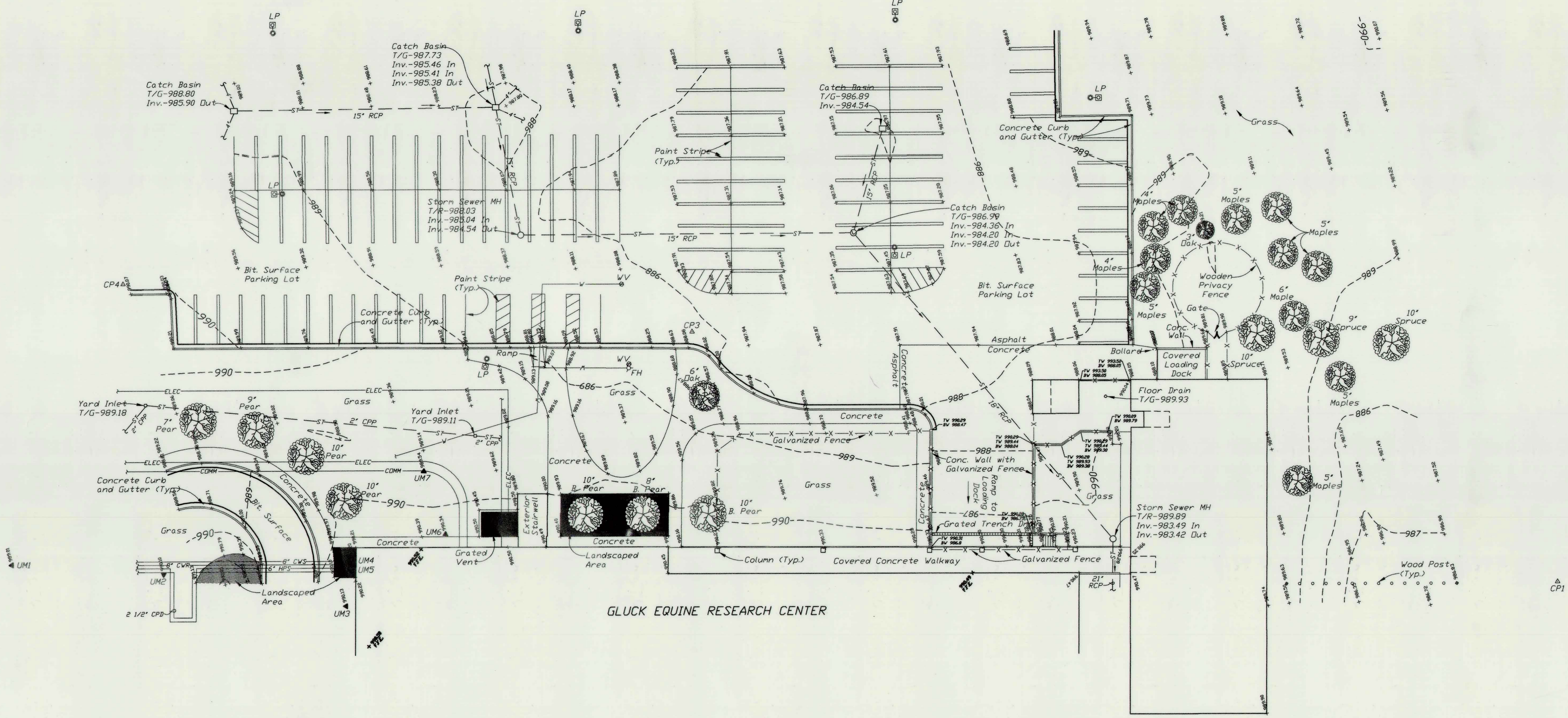


HORIZONTAL AND VERTICAL CONTROL				
Point No.*	Coordinates		Elevation	Description
	Northing	Easting		
CP1	191,074.91	1,565,222.16	987.66	Iron Pin with Cap (set)
CP2	191,166.14	1,565,610.42	993.15	Iron Pin with Cap (set)
CP3	191,363.05	1,565,401.83	988.11	PK Nail (set)
CP4	191,564.75	1,565,478.02	990.37	Iron Pin with Cap (set)
CP5**	191,850.75	1,565,247.56	991.24	PK Nail (Found-UK Pnt 218)

*Numbered for the purpose of identification on this survey only. May not correspond with previous survey(s) and/or University of Kentucky designation.
 **Not shown hereon. Outside of sheet limits.

LEGEND OF SYMBOLS AND ABBREVIATIONS

- S— Storm Sewer Line
- W— Water Line
- ELEC— Underground Electric Line
- CDM— Underground Communications Line
- CWS— Chilled Water Supply Line
- CWR— Chilled Water Return Line
- HPS— High Pressure Steam Line
- CPD— Condensate Pump Drain
- X—X— Fence Line
- LP Light Pole
- FP Fire Hydrant
- WV Water Valve
- UM Utility Marker
- CP Control Point
- T/R Top of Rim Elevation
- T/G Top of Grate Elevation
- Inv. Invert (Flow Line) of Structure
- Conc. Concrete
- Bit. Bituminous
- RCP Reinforced Concrete Pipe
- CPP Corrugated Plastic Pipe
- FFC Finished Floor Elevation
- TV Top of Wall Elevation
- BV Bottom of Wall Elevation



UNDERGROUND UTILITY NOTE

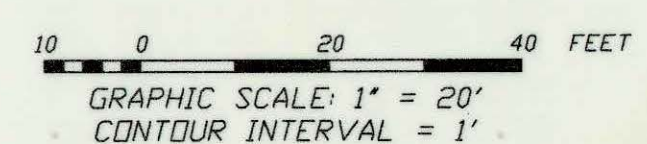
The locations, sizes and types of underground public and quasi public utilities or substructures shown hereon were obtained by visual inspection and field measurements taken at the time of the survey; and/or physical locations provided by field representatives of the operating utility company and/or utility location maps provided by the operating utility company.
 Prior to any design or construction in the vicinity of any utilities shown hereon, it is recommended that the locations be field verified by the operating utility company. The locations shown hereon are only approximate and there is the possibility that additional utility lines, not discovered during the search of records and the field survey, could exist.
 Fuller, Massbarger, Scott and May Engineers, Inc. does not warrant or guarantee that the underground utility information shown hereon is accurate or complete.
 Any contractor, owner or designer using the information shown hereon is hereby forewarned that any excavation upon this site may result in the discovery of additional underground utilities not shown hereon.

UTILITY MARKERS	
Marker No.*	Description/Depth
UM1	8" Chilled Water, 49" Deep
UM2	6" HP Steam/25' Pumped Condensation, 48" Deep
UM3	5" Storm Drain, 36" Deep
UM4	Chilled Water, 48" Deep
UM5	HP Steam, 48" Deep
UM6	12.47 kv, 42" Deep
UM7	12.47 kv, 42" Deep

*Numbered for the purpose of identification on this survey only. May not correspond with operating utility company and/or University of Kentucky designation.

NOTES:

- Spots shown along curb lines depict the bottom face of curb elevation, with a typical 0.5' rise in elevation to the top of curb.
- Tree dimensions depict the trunk diameter. Plural tree labels (i.e. Maples) indicate a clump or cluster of trees having the noted trunk diameter.



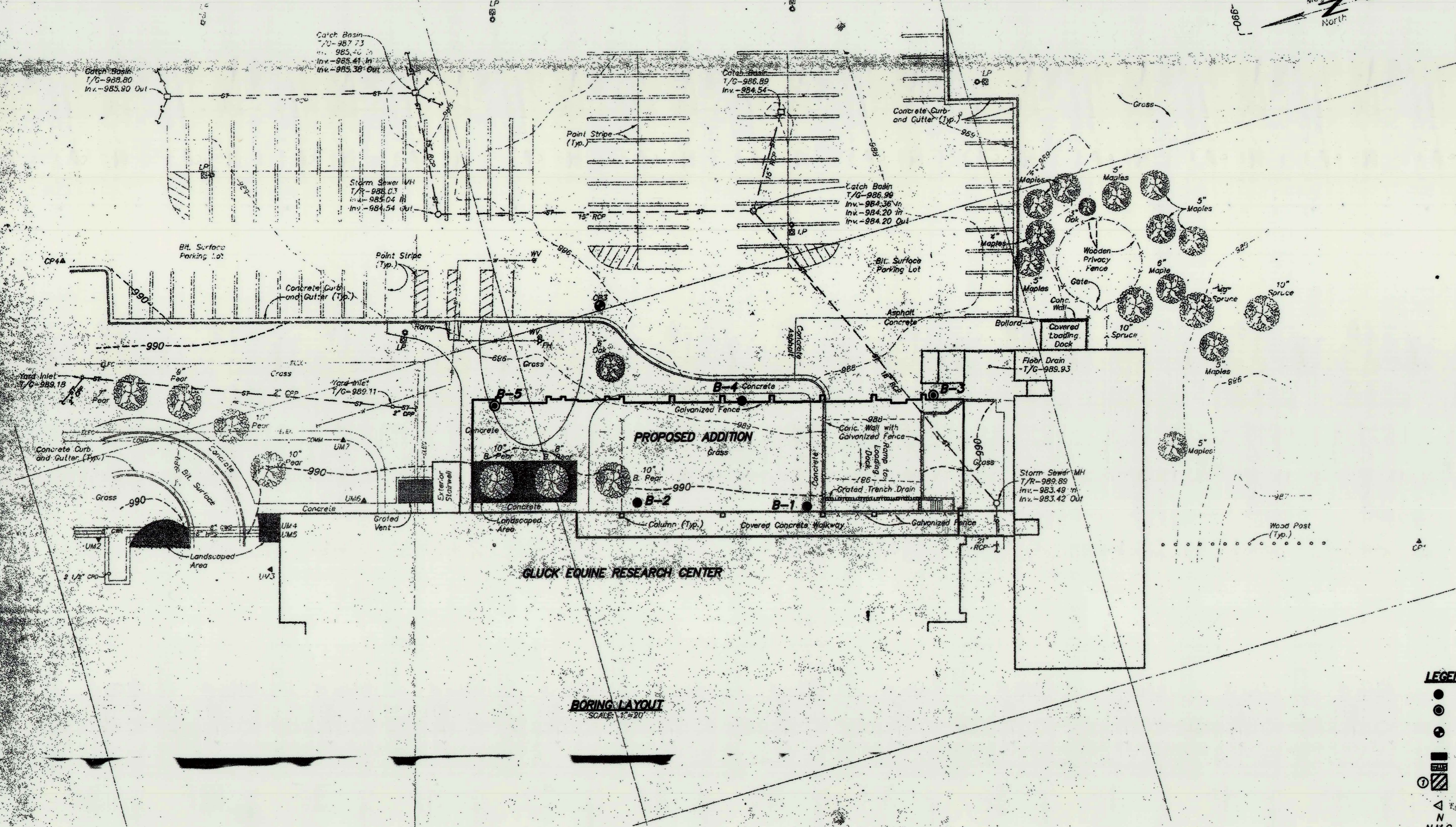
PROJECT NO.	LX2001171
DATE	AUG. 2001
DRAWN BY	BFS
CHECKED BY	BCP
CHECKED BY	EEL
SCALE	1" = 20'
REVISED	
1.	
2.	
3.	
4.	
5.	
6.	
7.	

SHEET

SS-1

TOPOGRAPHIC SURVEY
 GLUCK EQUINE RESEARCH CENTER
 UNIVERSITY OF KENTUCKY
 LEXINGTON, FAYETTE COUNTY, KENTUCKY

Fuller Massbarger Scott & May
 ENGINEERS
 1408 N. Trades Rd.
 Lexington, Kentucky 40517-1500
 606-255-0574



SOIL SUMMARY

SAMPLE NO.	STATION	Composite
1	990.1	Composite
2	990.4	Composite
3	988.1	Composite
4	988.7	Composite
5	989.6	Composite

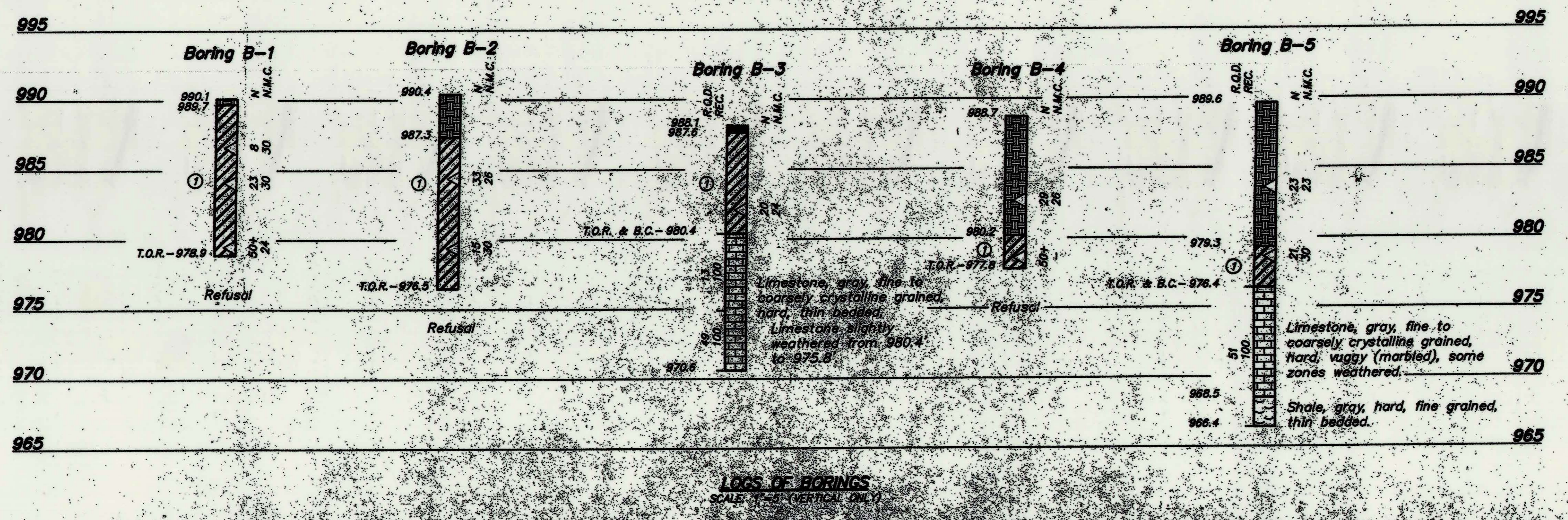
DEPTH	GRAVEL (# + No. 4)	SAND (# No. 4 + No. 200)	SILT (# No. 200 + 0.006mm)	CLAY (# 0.006mm)
0 - 1	4	75	19	2
1 - 2	0	82	15	3
2 - 3	0	82	15	3
3 - 4	0	82	15	3
4 - 5	0	82	15	3

LIQUID LIMIT	PLASTIC LIMIT	PLASTIC INDEX	SHRINKAGE (%)	UNSATURATED SHRINKAGE (%)	SHRINKAGE RATIO	LIQUIDITY CLASSIFICATION	UNIFIED CLASSIFICATION
25	15	10	0.74	2.78	0.27	A-7-B(25)	OH
MAXIMUM DRY DENSITY (pcf) 103.4 OPTIMUM MOISTURE (%) 20.5							

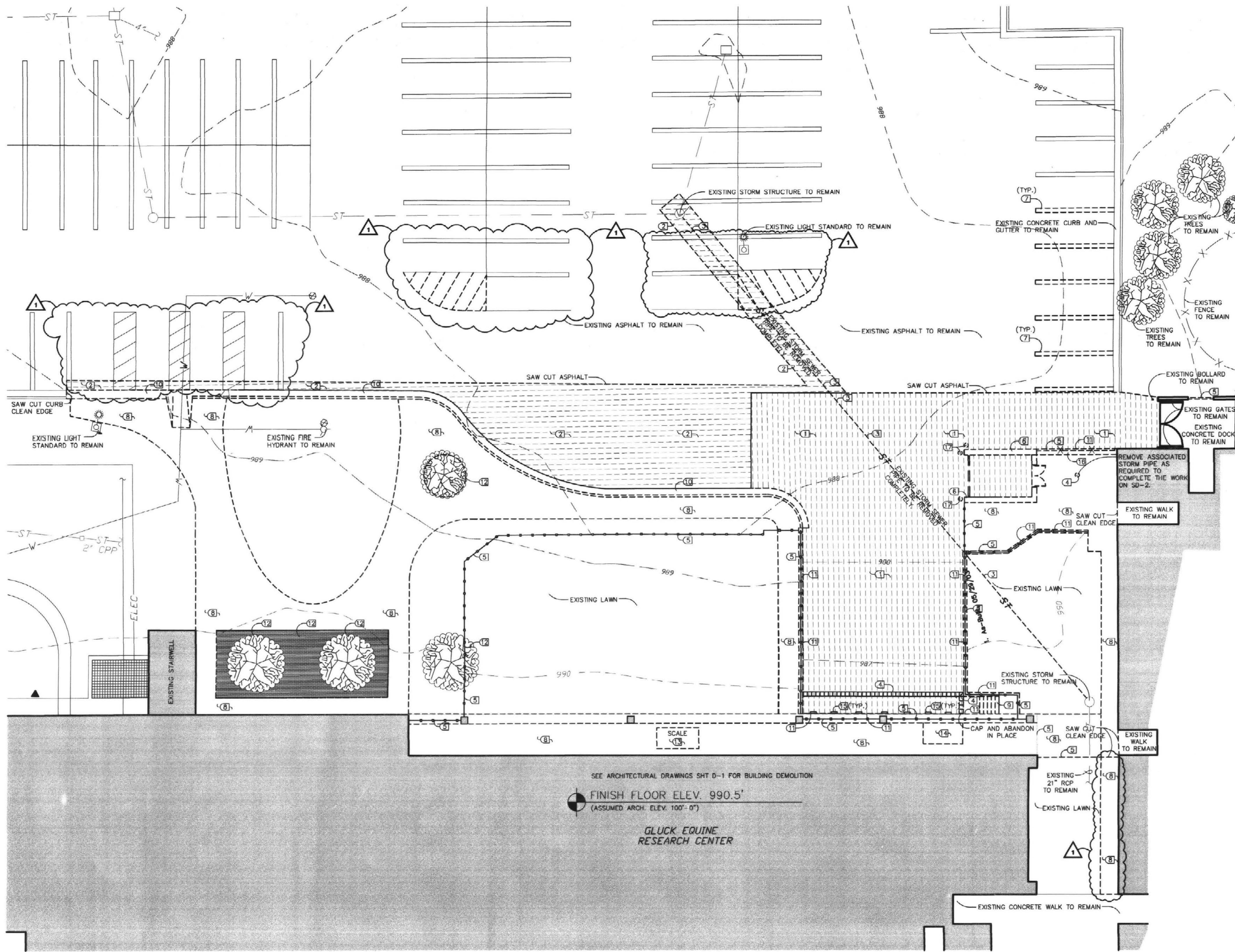
BORING LOCATION TABLE

Boring No.	Northing	Eastng	Elevation (Feet)
1	1,565,303	191,304	990.1
2	1,565,323	191,369	990.4
3	1,565,331	191,245	988.1
4	1,565,350	191,318	988.7
5	1,565,375	191,414	989.6

- LEGEND**
- Soil Boring
 - ⊙ Soil Boring with Standard Penetration Tests and Rock Core
 - ⊕ TBM - PK Nail set during survey by FMSM Engineers, Elevation 988.11 feet. Designated as FMSM CP3.
 - Concrete Sidewalk
 - ▨ Topsoil
 - ▨ Fat Clay, with Sand, brown to dark brown, moist, medium stiff to stiff, with manganese concretions.
 - △ Standard Penetration Test Interval
 - N Standard Penetration Test Blow Count (blows/ft.)
 - N.M.C. Natural Moisture Content (%)
 - T.O.R. - Top of Rock (indicates the beginning of rock-like resistance to the advancement of the augers. This may indicate the beginning of weathered bedrock, boulders or rock remnants. An exact determination cannot be made without performing rock coring.)
 - Refusal Auger Refusal using a carbide-tipped tooth auger bit
 - R.Q.D. Rock Quality Designation (%)
 - REC. Recovery (%)
 - B.C. - Begin Rock Core



NOTE:
 Topographic and survey information for the boring layout was taken from a survey drawing supplied by FMSM Engineers, Inc. on July 19, 2001. The information is believed to be correct, but is not to be used by the Contractor for construction of the project.



SEE ARCHITECTURAL DRAWINGS SHY D-1 FOR BUILDING DEMOLITION

FINISH FLOOR ELEV. 990.5'
(ASSUMED ARCH. ELEV. 100'-0")

GLUCK EQUINE
RESEARCH CENTER

SCALE
1" = 10'-0"

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GENERAL DEMOLITION NOTES:

1. SITE DEMOLITION DRAWINGS ARE INTENDED TO GENERALLY SHOW THE DEMOLITION NECESSARY TO COMPLETE THE NEW WORK. THE CONTRACTOR SHALL REVIEW ALL DOCUMENTS AND VISIT AND OBSERVE THE SITE PRIOR TO SUBMITTING HIS BID AND SHALL INCLUDE IN HIS BID ALL WORK NECESSARY TO ACCOMPLISH THE NEW WORK, WHETHER OR NOT SHOWN ON THESE DEMOLITION DRAWINGS.
2. ALL TREES ARE TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE.
3. SEE SITE UTILITY PLANS FOR DEMOLITION OF UTILITIES.

SITE DEMOLITION KEY

- 1 EXISTING CONCRETE PAVING AND GRAVEL SUB-BASE TO BE REMOVED.
- 2 EXISTING ASPHALT TO BE REMOVED COMPLETELY.
- 3 EXISTING STORM SEWER PIPE TO BE REMOVED COMPLETELY.
- 4 EXISTING STORM SEWER STRUCTURE TO BE REMOVED.
- 5 EXISTING FENCE / GATE ASSEMBLY TO BE REMOVED COMPLETELY AND DELIVERED TO OWNER.
- 6 EXISTING DUMPSTER ENCLOSURE TO BE REMOVED COMPLETELY.
- 7 EXISTING PAINT STRIPE TO BE REMOVED.
- 8 EXISTING CONCRETE WALK AND SUB-BASE TO BE REMOVED.
- 9 EXISTING CONCRETE STEPS TO BE REMOVED COMPLETELY.
- 10 EXISTING CONCRETE CURB AND GUTTER TO BE REMOVED COMPLETELY.
- 11 EXISTING CONCRETE WALL TO BE REMOVED COMPLETELY, INCLUDING FOUNDATION.
- 12 EXISTING TREE, ROOT SYSTEM AND LANDSCAPING TO BE REMOVED COMPLETELY.
- 13 EXISTING SCALE & PIT TO BE REMOVED COMPLETELY AND DELIVERED TO THE OWNER.
- 14 EXISTING DOCK LEVELER TO BE REMOVED COMPLETELY AND DELIVERED TO THE OWNER.
- 15 EXISTING DOCK BUMPERS TO BE REMOVED.
- 16 EXISTING CAST CONCRETE WALL PANEL TO BE REMOVED COMPLETELY.
- 17 EXISTING BOLLARD TO BE REMOVED COMPLETELY.



SITE DEMOLITION PLAN

SCALE: 1" = 10'-0"



RECORD DRAWINGS JUNE 18, 2003

Sherman Carter Barnhart
PSC
PARTNERS IN ARCHITECTURE
2405 HARRISBURG ROAD - LEXINGTON, KY 40504 - PH: 606-274-1351 - FAX: 606-274-6446

JOB NO. 0146
DATE DECEMBER 14, 2001
DRAWN JBS, DCL
CHECKED IAM, JN, JDC, BKL
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SHERMAN / CARTER /
BARNHART, PSC

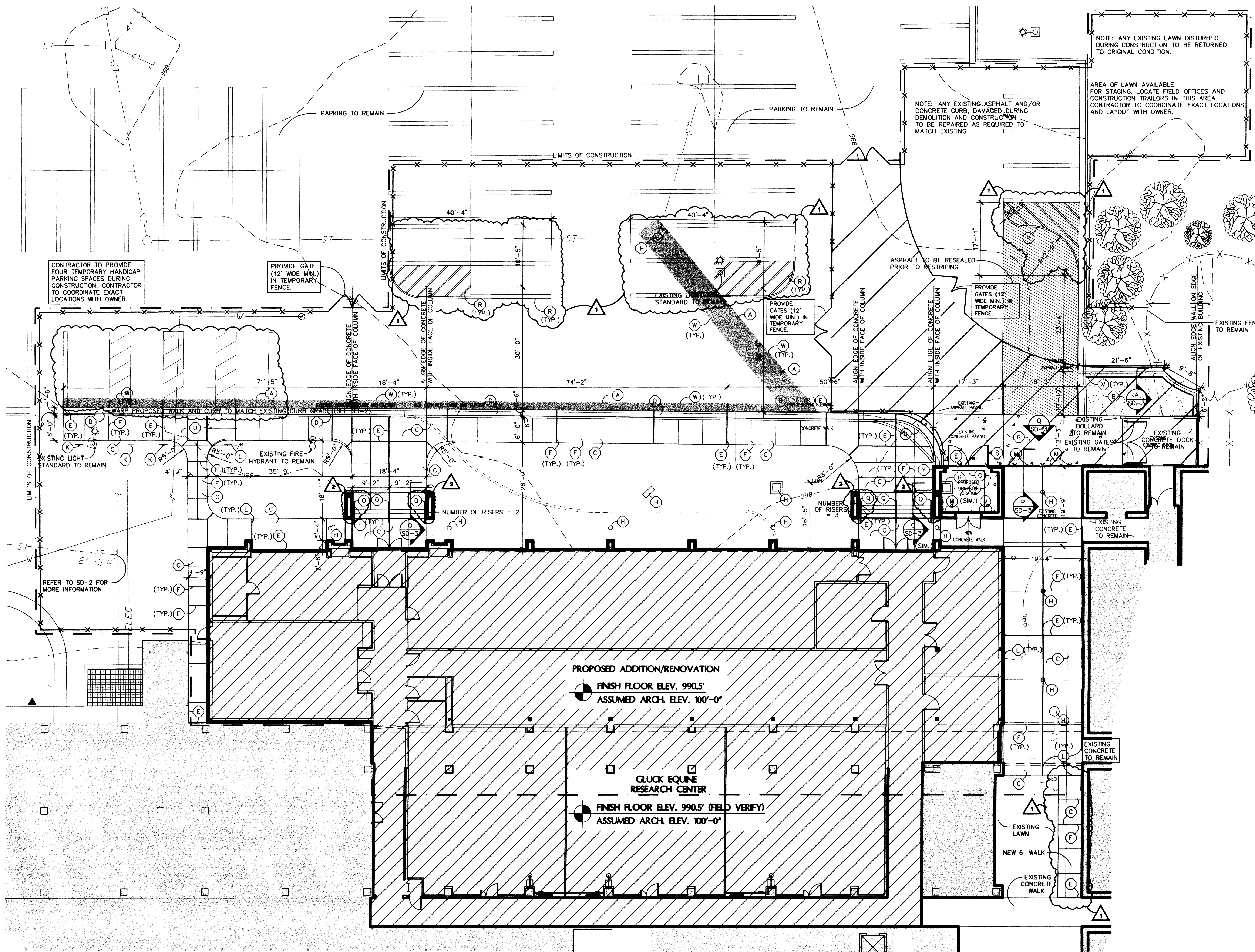
REVISIONS
1. AS-BUILT 05/30/03

SHEET

DS-1

Gluck Equine
Research Center Renovation
University of Kentucky

Site Demolition Plan



SITE DETAILS KEY

KEY	DESCRIPTION	DETAIL
A	ASPHALT PAVEMENT	B / SD-3
B	GRAVEL RAMP / HEADER WALL	A / SD-3
C	CONCRETE WALK	C / SD-3
D	CONCRETE CURB	E / SD-3
E	1/2" EXPANSION JOINT MATERIAL W / SEALANT (TYP.)	
F	1/4" TOOLED JOINT (TYP.)	
G	CONCRETE PAVING	D / SD-3
H	STORM SEWER STRUCTURE	SEE SD-2
J	WALL MOUNTED HANDRAIL	M / SD-3
K	STANDARD DISABLED PARKING SIGN	J / SD-3
L	"VAN ACCESSIBLE" SIGN	J / SD-3
M	DOCK BUMPERS	Q / SD-3
N	NOT USED	H / SD-3
P	4" WIDE X 18'-0" LONG WHITE PAINT STRIPE (TYP.)	
Q	GUARDRAIL	O / SD-3
R	4" WIDE WHITE PAINT STRIPE (TYP.)	
S	BOLLARD	L / SD-3
T	PAVEMENT APPLIED GRAPHICS "DISABLED LOGO"	K / SD-3
U	CURB CUT	G / SD-3
V	METAL FENCE (FENCE SECTION TO MATCH PRE-MANUFACTURED FENCE. EXISTING FENCE MANU. BY KORN INDUSTRIES.	F / SD-3
W	EDGE KEY	
Y	DUMPSTER ENCLOSURE	SEE ARCH.

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KEY TO SHADING

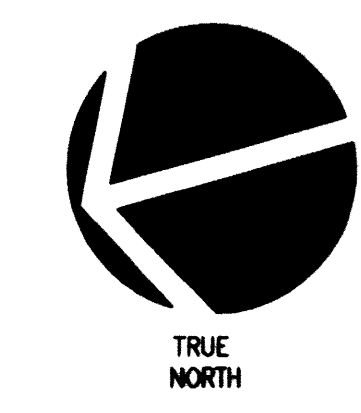
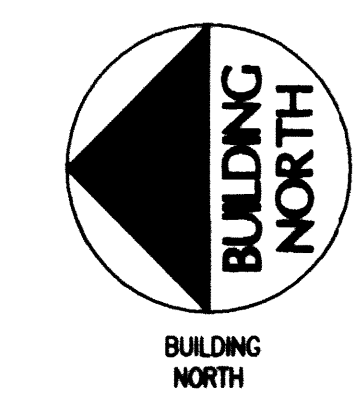
[Hatched Pattern]	EXISTING BUILDING TO REMAIN
[Stippled Pattern]	CONCRETE PAVING
[Dotted Pattern]	GRAVEL PATH
[Diagonal Lines]	AREA OF ASPHALT TO BE RESEALED
[Solid Black]	ASPHALT PAVEMENT
[White Box]	OWNER ACCESS AREA (REFER TO NOTE 5 ON THIS SHEET)

LEGEND

- LIMITS OF CONSTRUCTION
- TEMPORARY CONSTRUCTION FENCING (SEE NOTE 6)
- CONCRETE WALK

NOTES:

1. PROVIDE 1/2" EXP. JT. MATERIAL W / SEALANT (USE ZIP STRIP AND CAKE FIBER) WHERE NEW CONC. CURBS OR PAVING ABUT STORM SEWER STRUCTURES, BUILDINGS, ETC.
2. AT END OF PROJECT, CONTRACTOR SHALL REMOVE ALL TEMPORARY FENCING, TEMPORARY EROSION CONTROL STRUCTURES, AND OTHER TEMPORARY SERVICES ON SITE.
3. ALL RADII ARE TO BE 5' UNLESS SHOWN OTHERWISE.
4. ALL EXISTING SITE CONDITIONS DISTURBED DURING DEMOLITION AND CONSTRUCTION SHOULD BE RETURNED TO ITS ORIGINAL STATE.
5. CONTRACTOR IS TO MAINTAIN OWNER ACCESS TO THE LOADING DOCK AND THE AREA INDICATED ON THIS SHEET, CONTINUOUSLY DURING CONSTRUCTION. CONTRACTOR TO COORDINATE EXACT LOCATIONS OF TEMPORARY FENCE AND GATES WITH OWNER.
6. TEMPORARY CONSTRUCTION FENCING TO BE 8' AND MOBILE. DO NOT INSTALL INTO ASPHALT OR GRADE.



SITE DEVELOPMENT PLAN
 SCALE: 1" = 10'-0"
 0 10 50
 SCALE IN FEET

Gluck Equine
 Research Center Renovation
 University of Kentucky

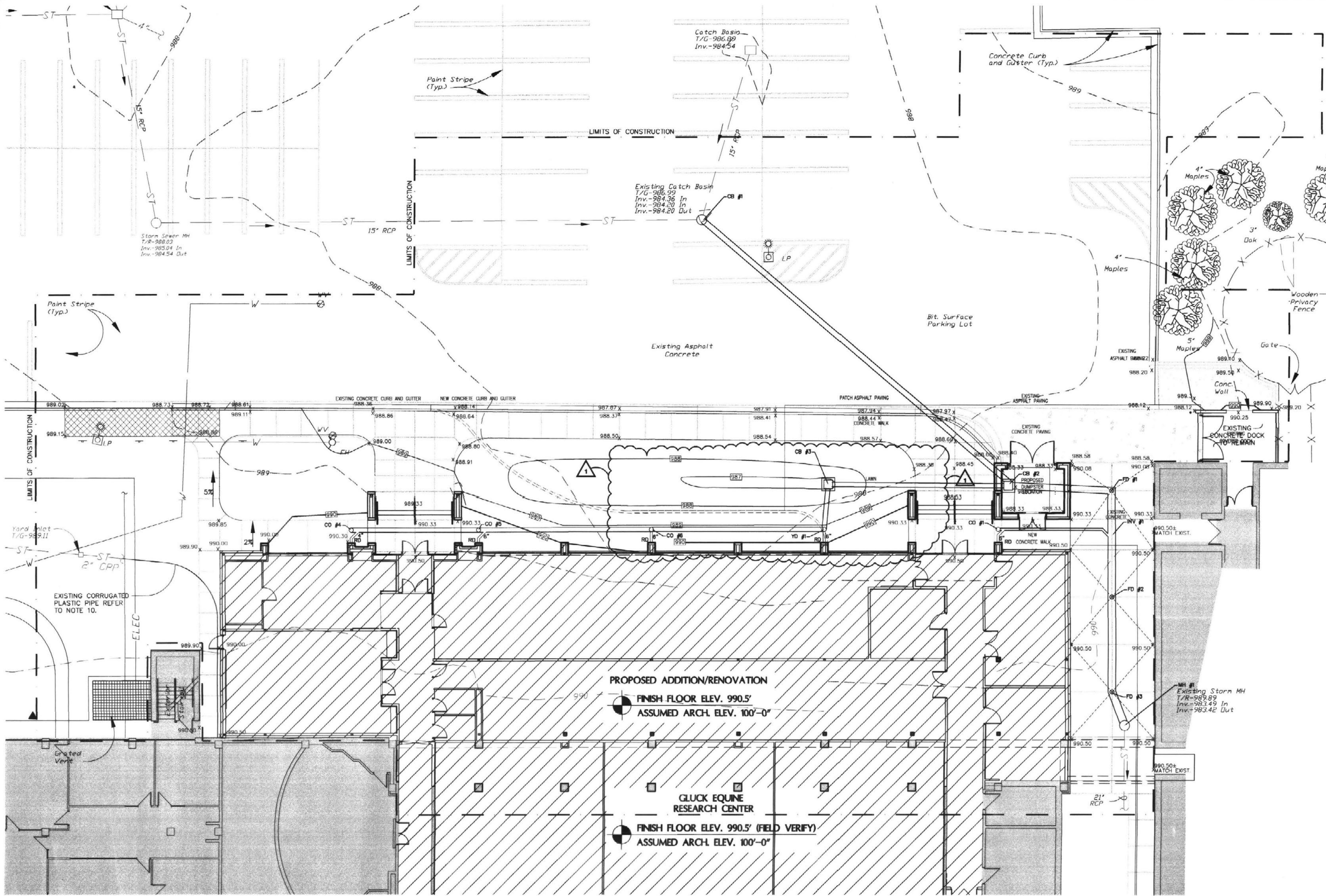
Site Development Plan

RECORD DRAWINGS JUNE 18, 2003
 Sherman Carter - Barnhart PSC
 PARTNERS IN ARCHITECTURE
 2405 WARDSBURG ROAD - LEXINGTON, KY 40504 - PH: 659-224-1351 - FAX: 659-224-8446

JOB NO. 0146
DATE DECEMBER 14, 2001
DRAWN JBS, OAH
CHECKED TAM, JN, JDC, BKL
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REVISIONS
1. As-Built, 05/28/03
2. As-Built, 05/30/03

SHEET
SD-1



GENERAL NOTES

- THIS JOB WILL REQUIRE OFFSITE BORROW MATERIAL FOR USE AS ENGINEERED FILL. ACCORDING TO THE GEOTECHNICAL REPORT, THERE IS AN ABUNDANCE OF TOPSOIL. A LARGE AMOUNT OF TOPSOIL EXISTS IN THE AREA OF PROPOSED BUILDING ADDITION. THIS TOPSOIL SHALL BE COMPLETELY REMOVED AND REPLACED WITH ENGINEERED FILL. THE REMAINING TOPSOIL, NOT USED, SHALL BE DISPOSED BY THE CONTRACTOR OFFSITE. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE 1" OF SUITABLE TOPSOIL THROUGHOUT THE SITE AS SPECIFIED IN THE LANDSCAPING PORTION OF THE SPECIFICATIONS.
- ALL LENGTHS OF STORM SEWER PIPING ARE APPROXIMATE. CONTRACTOR SHALL PROVIDE PIPE MATERIALS AS NECESSARY TO COMPLETE THE STORM SEWER SYSTEM AS INDICATED OR REQUIRED.
- ALL STORM SEWER TRENCHING SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
- AREAS THAT WILL SUPPORT FOUNDATIONS, FLOORS, PAVEMENTS, OR NEW ENGINEERED FILL SHALL BE PROPERLY PREPARED AS SPECIFIED. ALL TOPSOIL AND OTHER UNSUITABLE MATERIALS SHALL BE REMOVED. UNSUITABLE MATERIALS INCLUDE FROZEN SOIL, SOFT UNSUITABLE MATERIAL AND MISCELLANEOUS FILL.
- PRIOR TO CONSTRUCTION OR THE PLACEMENT OF NEW ENGINEERED FILL, THE EXPOSED SUBGRADE SHALL BE EVALUATED BY THE PROJECT GEOTECHNICAL ENGINEER. THE EVALUATION SHALL INCLUDE PROOFROLLING OF THE EXPOSED SUBGRADE. IF UNSUITABLE MATERIALS ARE DISCLOSED, AN APPROPRIATE REMEDIAL MEASURE WOULD BE RECOMMENDED BY THE GEOTECHNICAL ENGINEER AT THAT TIME.
- CARE MUST BE EXERCISED DURING GRADING AND FILL PLACEMENT OPERATIONS. THE COMBINATION OF CONSTRUCTION EQUIPMENT TRAFFIC AND EXCESS SURFACE MOISTURE CAN CAUSE PUMPING AND DETORIORATION OF THE NEAR SURFACE SOILS. THE SEVERITY OF THIS POTENTIAL PROBLEM DEPENDS TO A GREAT EXTENT ON THE WEATHER CONDITIONS PREVAILING DURING CONSTRUCTION. THE CONTRACTOR MUST EXERCISE DISCRETION WHEN SELECTING EQUIPMENT SIZES AND ALSO MAKE A CONCERTED EFFORT TO CONTROL SURFACE WATER WHILE THE SUBGRADE SOILS ARE EXPOSED. IF SUCH PROBLEMS DO ARISE, THE GEOTECHNICAL ENGINEER SHOULD BE CONTACTED TO EVALUATE THE CONDITION.
- ENGINEERED FILL PLACEMENT AND COMPACTION OPERATIONS SHALL BE MONITORED BY THE GEOTECHNICAL ENGINEER OR HIS REPRESENTATIVE. FIELD DENSITY TESTS MUST BE PERFORMED ON EACH LIFT AS NECESSARY TO CHECK THAT THE SPECIFIED COMPACTION IS BEING ACHIEVED.
- COMPACTION OF ANY FILL BY FLOODING SHALL NOT BE PERMITTED. DURING WET AND RAINY PERIODS, AERATION IS OFTEN NECESSARY TO BRING THE FILL MATERIALS TO THE REQUIRED MOISTURE CONDITION. DURING DRY PERIODS, WATER MAY NEED TO BE ADDED TO BRING THE SOILS UP TO THE PROPER MOISTURE CONTENT FOR COMPACTION. THE ON SITE CLAY SOILS MAY REQUIRE AERATION EVEN DURING DRY PERIODS. FILL MATERIAL SHALL NOT BE PLACED OVER FROZEN OR SATURATED MATERIALS, OTHER NATURAL OR FILLED.
- TOPSOILING AND GRASSING OF THE SITE SHALL BE COMPLETED AS SOON AS POSSIBLE AFTER GRADING IS FINISHED. NO AREAS SHALL BE LEFT BARE FOR LONGER THAN TWO (2) WEEKS. IF FINAL TOPSOILING AND GRASSING CAN NOT BE DONE IN THIS TIME PERIOD, TEMPORARY SEEDING SHALL BE PROVIDED AS DESCRIBED IN THE EROSION CONTROL NOTES.
- REMOVE AND REPLACE EXISTING 2" CORRUGATED PIPE AS NEEDED TO ACCOMMODATE THE NEW WORK.

UTILITIES

THE UTILITIES ARE SHOWN ON THE DRAWINGS AS ACCURATELY AS THEY HAVE BEEN PROVIDED TO THE ARCHITECT. THEIR LOCATIONS ARE NOT GUARANTEED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND TO HAVE ALL UTILITIES FIELD LOCATED, PRIOR TO STARTING CONSTRUCTION. THE UTILITIES SHOWN REPRESENT OBSERVABLE FEATURES ALONG WITH INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES, AND IS THEREFORE NOT WARRANTED. PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO FIELD VERIFY ALL UTILITY LOCATIONS, SIZES, TYPE ETC. NEEDED TO COMPLETE THE WORK OF THE CONTRACT.

THE CONTRACTOR IS TO NOTIFY THE ARCHITECT IF A PROBLEM COULD EXIST. IF THE CONTRACTOR PROCEEDS WITHOUT NOTIFYING THE UTILITY COMPANIES AND DOES NOT NOTIFY THE ARCHITECT OF POTENTIAL PROBLEMS HE DOES SO AT HIS OWN RISK.

JOB SITE SAFETY

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY DURING CONSTRUCTION. JOB SITE SAFETY IS OUTSIDE THE SCOPE OF WORK OF SHERMAN CARTER BARNHART (SCB), NEITHER THE PROFESSIONAL ACTIVITIES OF THE EMPLOYEES OR SUBCONSULTANTS AT THE CONSTRUCTION SITE SHALL RELIEVE THE CONTRACTOR OR ANY OTHER ENTITY OF THEIR OBLIGATION, DUTIES, AND RESPONSIBILITIES INCLUDED, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCES, TECHNIQUES, TO PROCEDURES NECESSARY FOR PERFORMING SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH AND SAFETY PRECAUTIONS REQUIRED BY GOOD CONSTRUCTION PRACTICES OR ANY REGULATORY AGENCIES. ANYONE USING INFORMATION FROM THESE PLANS ACKNOWLEDGES AND WARRANTS THAT SHERMAN CARTER BARNHART IS NOT RESPONSIBLE FOR SITE SAFETY IN ANY WAY.

EROSION CONTROL NOTES

(NOTE: THE EROSION CONTROL MEASURES NOTED BELOW ARE MINIMUMS AND DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR COMPLIANCE WITH ANY AND ALL U.S. EPA, LULUC, UNIVERSITY OF KENTUCKY AND / OR KENTUCKY DIVISION OF WATER REQUIREMENTS.)

- CONTRACTOR SHALL PROVIDE SILT PROTECTION AS NEEDED OR REQUIRED BY THE REGULATORY AGENCIES, WHETHER IT IS SHOWN ON THE PLANS OR NOT.
- EROSION CONTROL AROUND BOUNDARY SHALL BE INSTALLED BEFORE ANY CLEARING OR GRADING IS BEGUN.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT EROSION ONTO ADJACENT PROPERTY. ANY REMEDIAL MEASURES REQUIRED TO CORRECT DAMAGE CREATED BY EROSION SHALL BE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL PROVIDE DIVERSION DITCHES AS REQUIRED TO MINIMIZE RUNOFF AND CONTROL EROSION TO MEET GOVERNING AUTHORITY REQUIREMENTS. PROVIDE TEMPORARY RIP RAP STABILIZATION AT ALL DIVERSION DITCHES TO BE REMOVED AT THE COMPLETION OF CONSTRUCTION.
- ALL AREAS DISTURBED BY GRADING THAT ARE NOT STABILIZED WITH OTHER METHODS FOR A PERIOD OF 14 DAYS SHALL HAVE TEMPORARY SEEDING COVER PROVIDED. SEEDING SHALL BE ANNUAL GRASSES OR SMALL GRAINS, AS THE SEASON PERMITS.
- REMOVE ALL EROSION CONTROL DEVICES UPON THE ESTABLISHMENT OF PERMANENT GROUND COVER.

LEGEND

- LIMIT OF CONSTRUCTION / SEEDING
- - - - - EXISTING 1' CONTOUR
- - - - - EXISTING 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED 5' CONTOUR
- RD ROOF DRAIN
- x 988.43 PROPOSED SPOT ELEVATION (AT GUTTER LINE = ADD 6" FOR TOP OF CURB ELEVATION)

NOTE: GRADE CONTOURS AND SPOT ELEVATIONS ARE FOR FINISHED CONDITIONS.

███ SIDEWALK FLUSH WITH PAVEMENT

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STORM SEWER SCHEDULE

KEY	DESCRIPTION	DETAIL	LENGTH	SLOPE	PIPE SIZE	TYPE	GRATE	INV.	ELEVATIONS	REMARKS
CB #1	CATCH BASIN	EXISTING	8.5'	0.42%	15"	RCP	988.99	984.20	988.99 984.20	FIELD VERIFY INVERT
CB #2	CATCH BASIN	D / SD-4	15'	0.42%	21"	PVC	988.15	983.81	988.15 983.81	PROVIDE TEMP. SILT PROTECTION REFER TO DETAIL C / SD-4.
FD #1	FLOOR DRAIN	A / SD-4	24'	0.42%	21"	PVC	990.02	983.71	990.02 983.71	MFAB FLOOD FLOOR DRAIN W/ HEAVY DUTY STAINLESS STEEL STRAINER
INV #1	INVERT	-	10'	0.42%	21"	PVC	-	983.67	- 983.67	
FD #2	FLOOR DRAIN	A / SD-4	14'	0.42%	21"	PVC	990.40	983.60	990.40 983.60	MFAB FLOOD FLOOR DRAIN W/ HEAVY DUTY STAINLESS STEEL STRAINER
FD #3	FLOOR DRAIN	A / SD-4	22'	0.42%	21"	PVC	990.40	983.51	990.40 983.51	MFAB FLOOD FLOOR DRAIN W/ HEAVY DUTY STAINLESS STEEL STRAINER
MH #1	MAN HOLE	EXISTING	8'	0.42%	21"	PVC	990.48	983.49	990.48 983.49	ADJUST MH LID TO FIN. GRADE FIELD VERIFY INVERT
CO #1	CLEANOUT	B / SD-4	25'	15.3%	6"	PVC	990.40	987.50	990.40 987.50	
INV #1	INVERT	-	-	-	-	-	-	983.67	- 983.67	
CO #4	CLEANOUT	B / SD-4	29'	1.72%	8"	PVC	990.24	988.00	990.24 988.00	
CO #5	CLEANOUT	B / SD-4	29'	1.25%	8"	PVC	990.10	987.80	990.10 987.80	
CO #6	CLEANOUT	B / SD-4	40'	1.25%	8"	PVC	989.20	987.50	989.20 987.50	
YD #1	YARD DRAIN	F / SD-4	11'	0.42%	12"	PVC	989.20	987.00	989.20 987.00	
YD #1	YARD DRAIN	F / SD-4	10'	25.0%	12"	PVC	989.20	985.00	989.20 985.00	
CB #3	CATCH BASIN	D / SD-4	10'	1.68%	12"	PVC	988.15	983.81	988.15 983.81	PROVIDE TEMP. SILT PROTECTION REFER TO DETAIL C / SD-4.
CB #2	CATCH BASIN	D / SD-4	41'	1.68%	12"	PVC	988.15	983.81	988.15 983.81	PROVIDE TEMP. SILT PROTECTION REFER TO DETAIL C / SD-4. PROVIDE 8" ALUM. ORFICE PLATE ATTACHED TO THE OUTLET SIDE OF CB #3.

REVISIONS

1.	Addendum #1.03, 01/17/02
2.	Addendum #1.04, 01/17/02

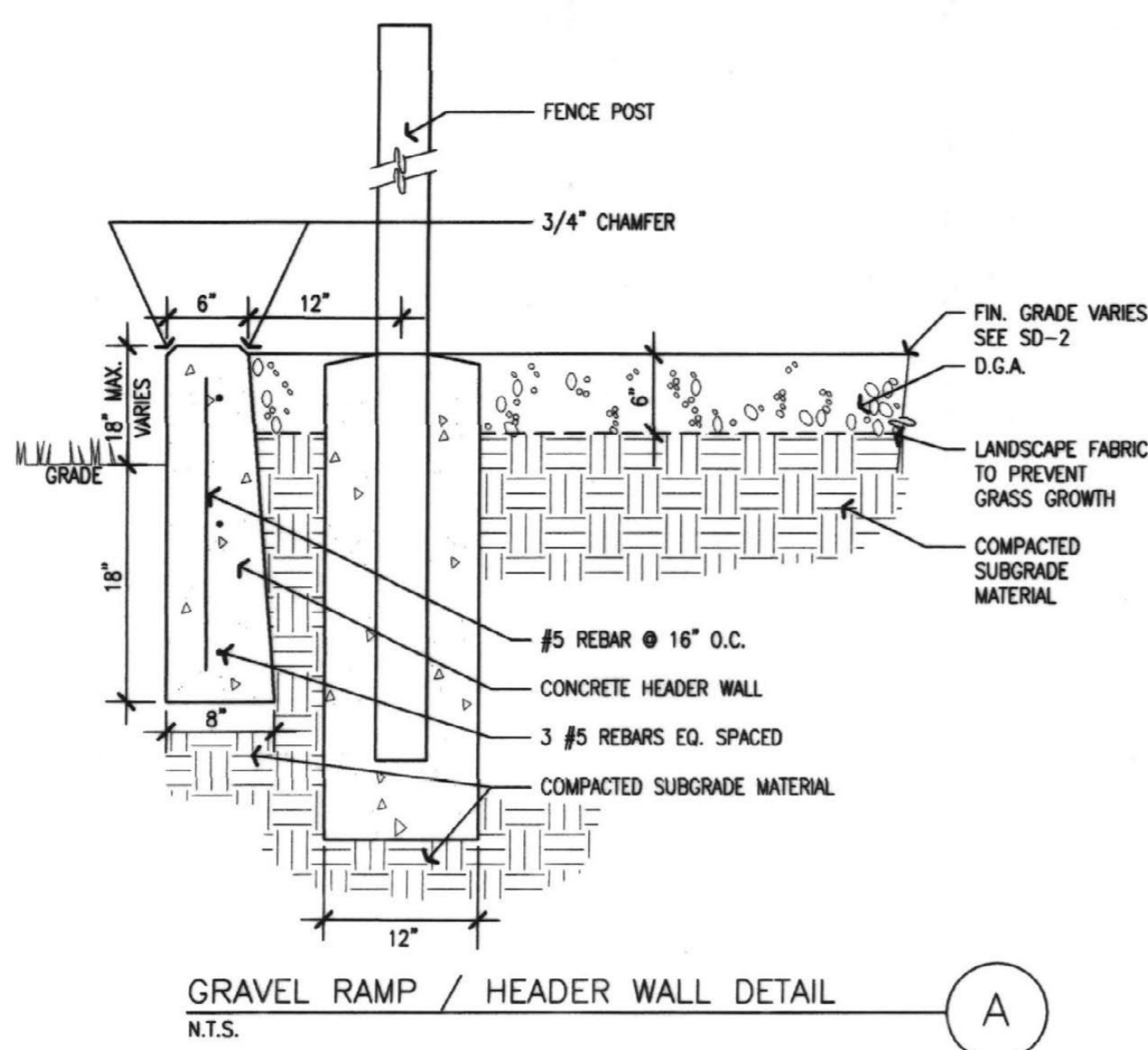
SCALE: 1" = 10'-0"

SITE GRADING AND DRAINAGE

RECORD DRAWINGS JUNE 18, 2003
 Sherman Carter Barnhart PSC
 PARTNERS IN ARCHITECTURE
 2405 HARRISBURG ROAD • LEXINGTON, KY 40504 • PH: 859-224-1351 • FAX: 859-224-8446

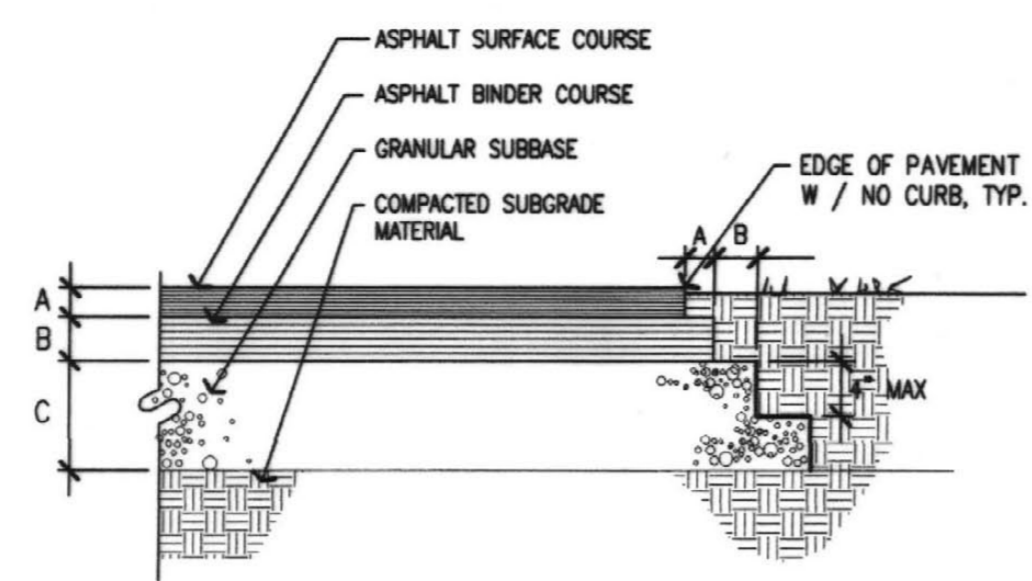
Gluck Equine Research Center Renovation University of Kentucky
Site Grading and Drainage

JOB NO. 0146
 DATE: DECEMBER 14, 2001
 DRAWN: JES, CH
 CHECKED: TAM, JN, JDC, BRL
 COPYRIGHT © 2001 SHERMAN / CARTER / BARNHART, PSC
 SHEET SD-2

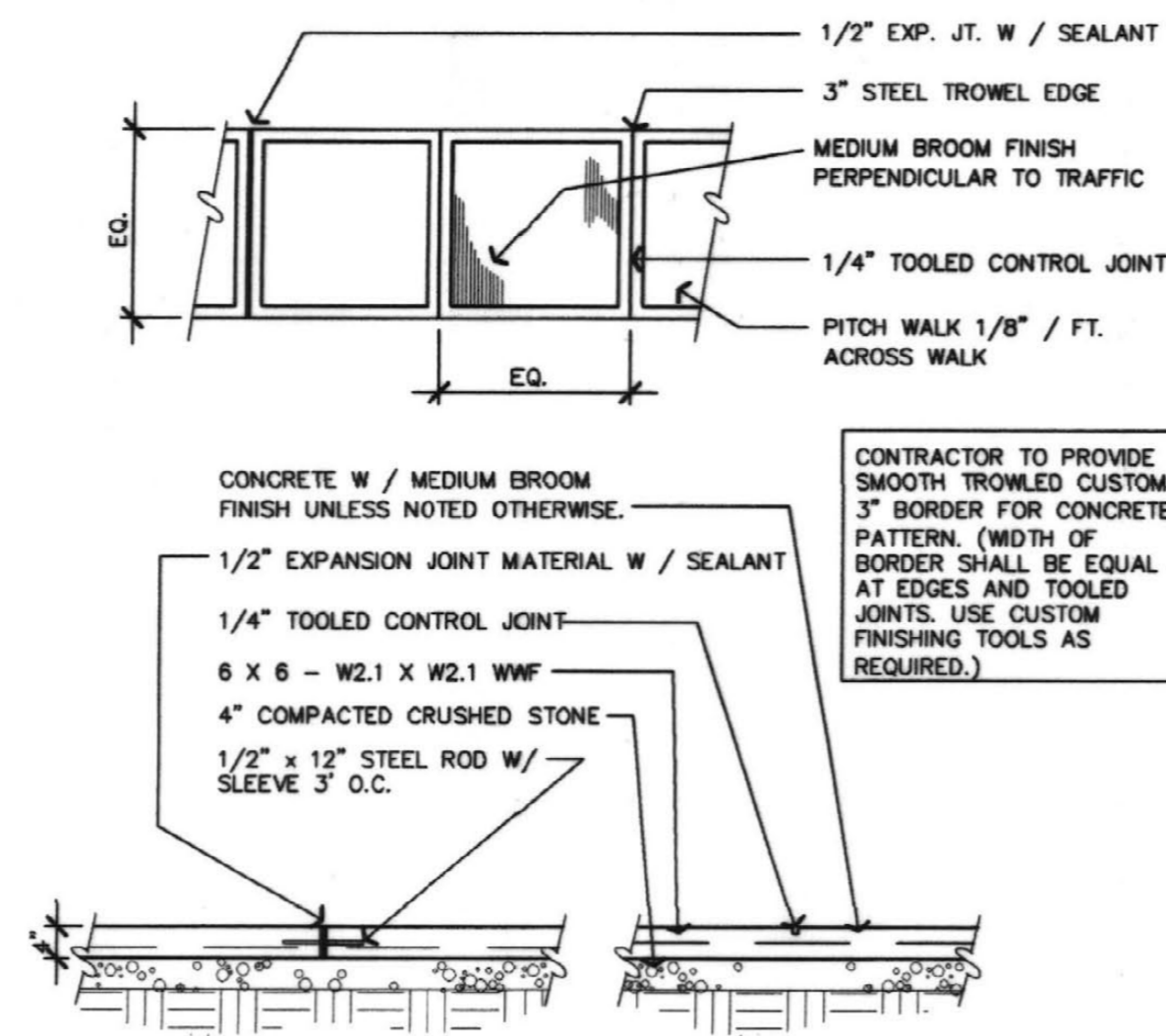


GRAVEL RAMP / HEADER WALL DETAIL
N.T.S. (A)

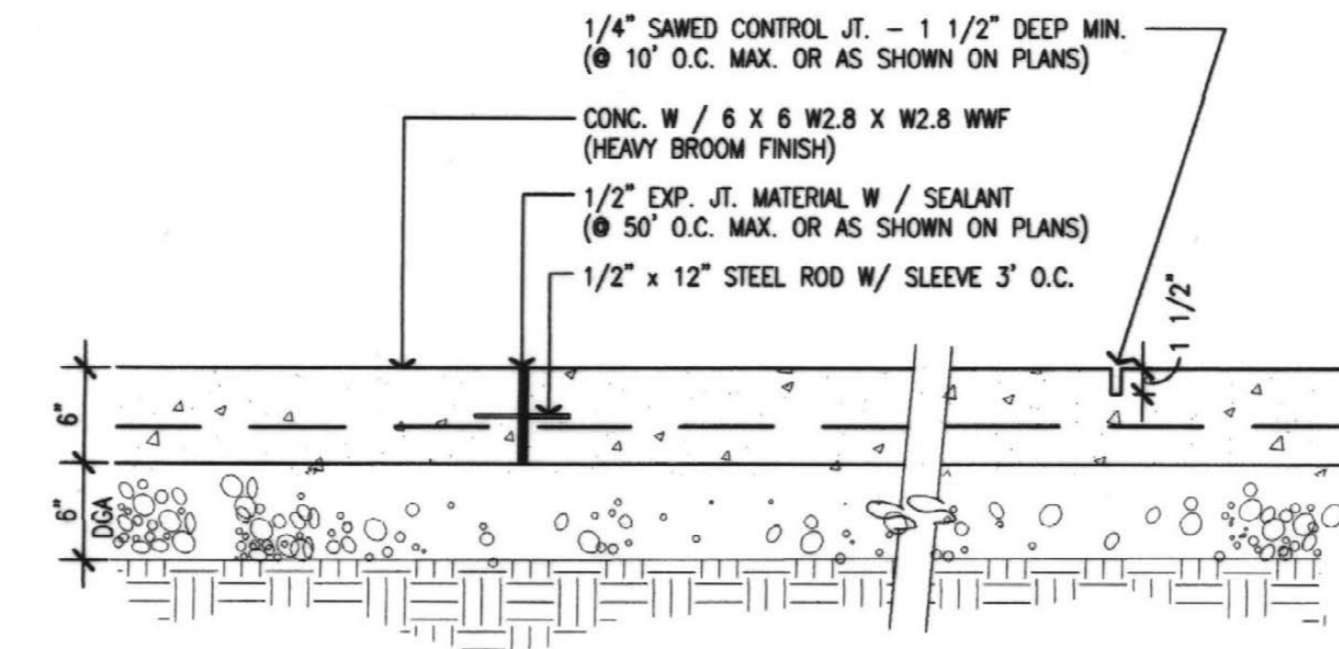
DIM.	
A	1 1/2"
B	2 1/2"
C	8"



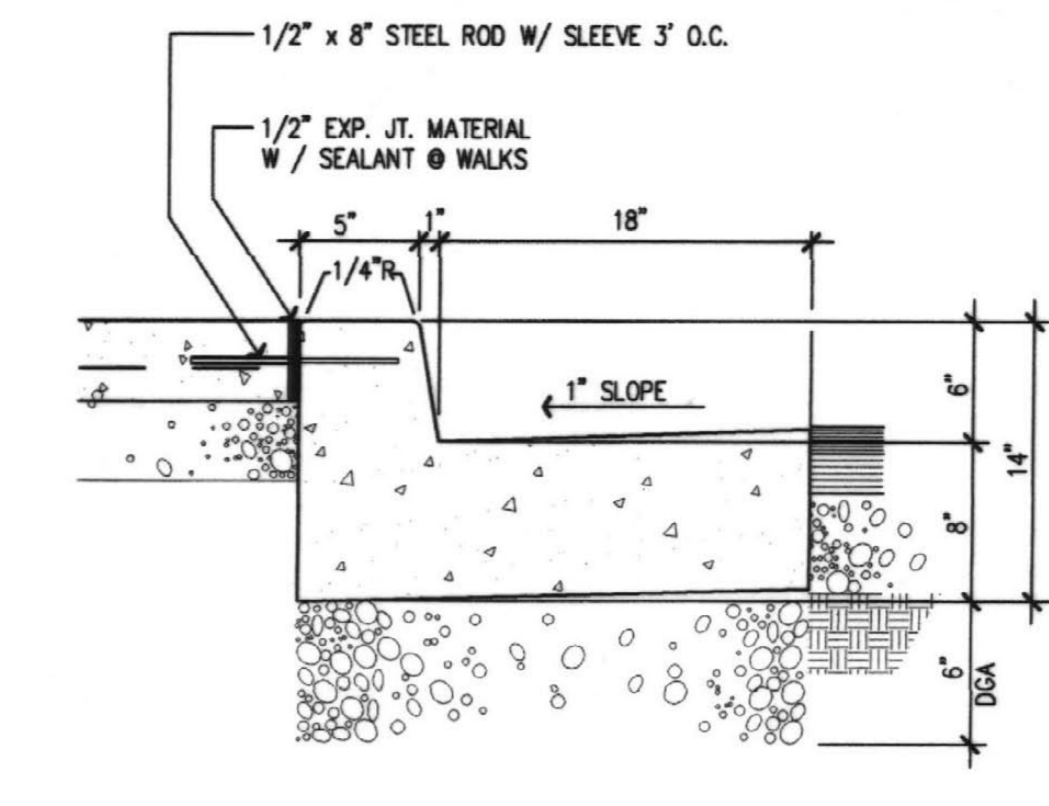
ASPHALT PAVING DETAIL
N.T.S. (B)



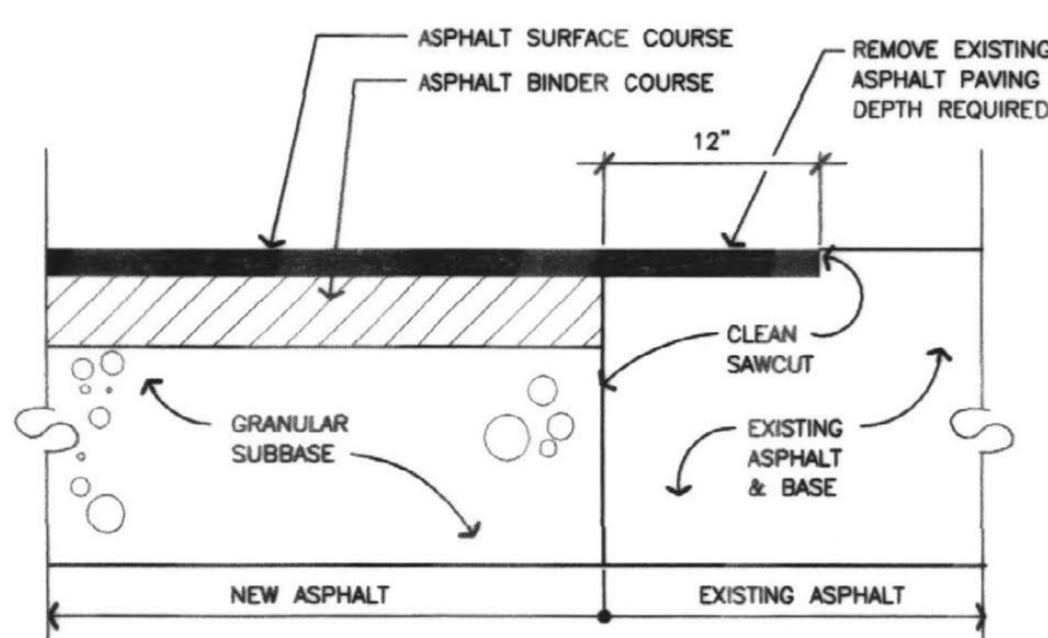
CONCRETE WALK DETAIL
1/2" = 1'-0" (C)



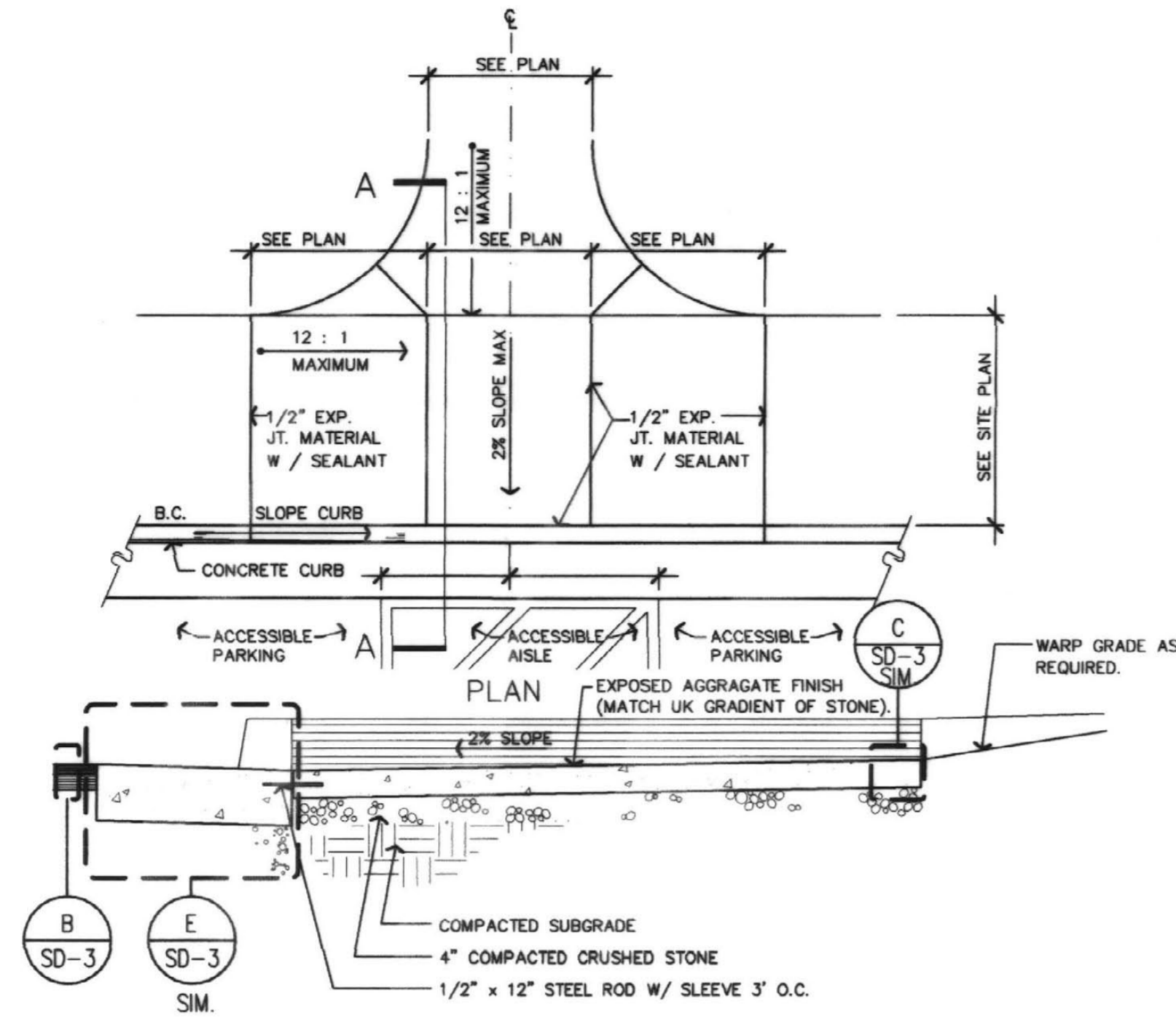
CONCRETE PAVING DETAIL
1" = 1'-0" (D)



CONCRETE CURB
1/8" = 1'-0" (E)

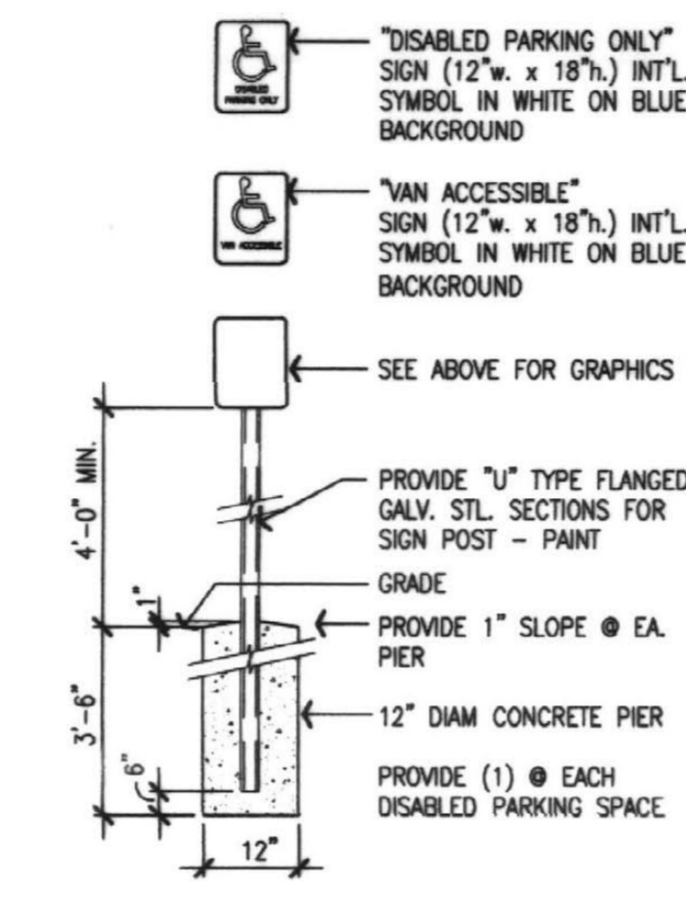


EDGE KEY DETAIL
N.T.S. (F)

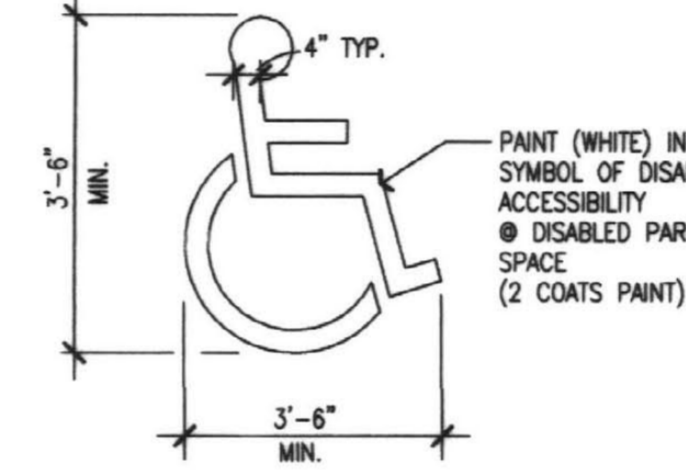


CURB CUT DETAIL
N. T. S. (G)

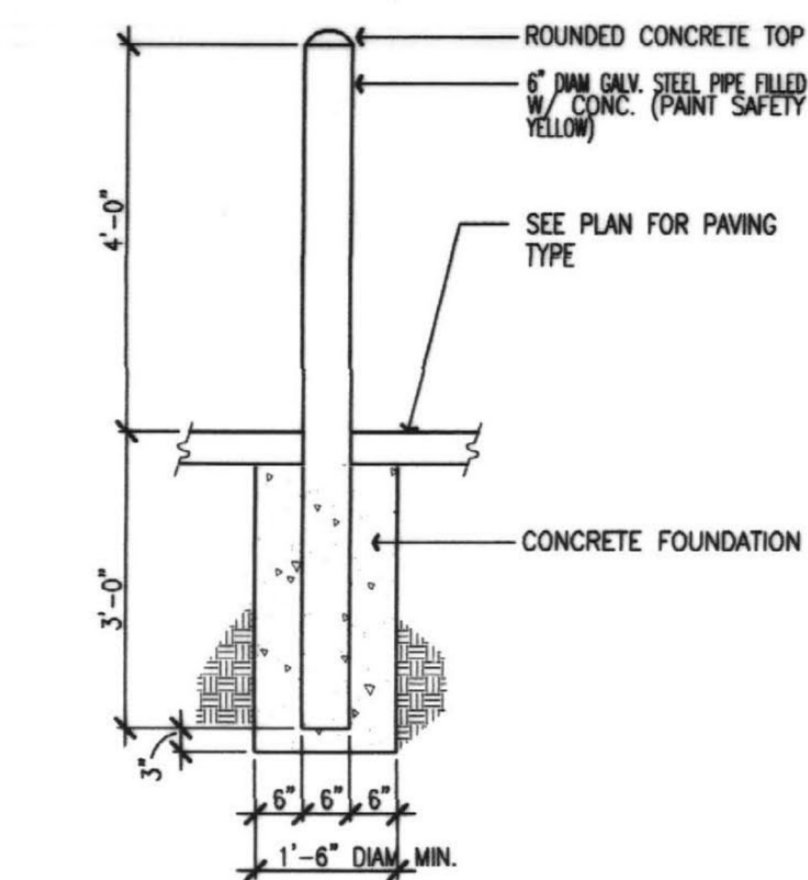
NOT USED
N. T. S. (H)



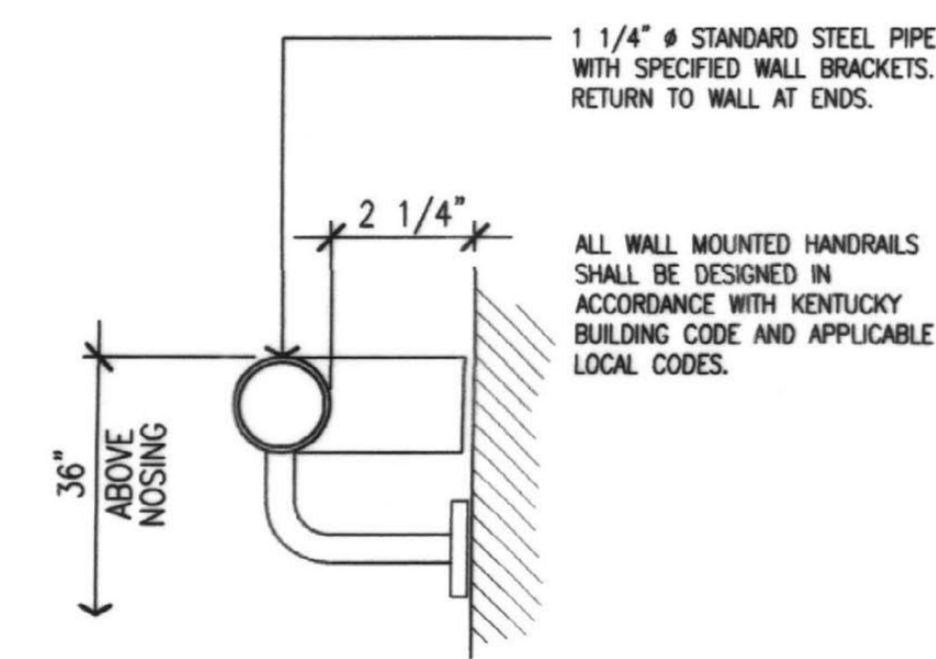
DISABLED PARKING SIGN
1/2" = 1'-0" (J)



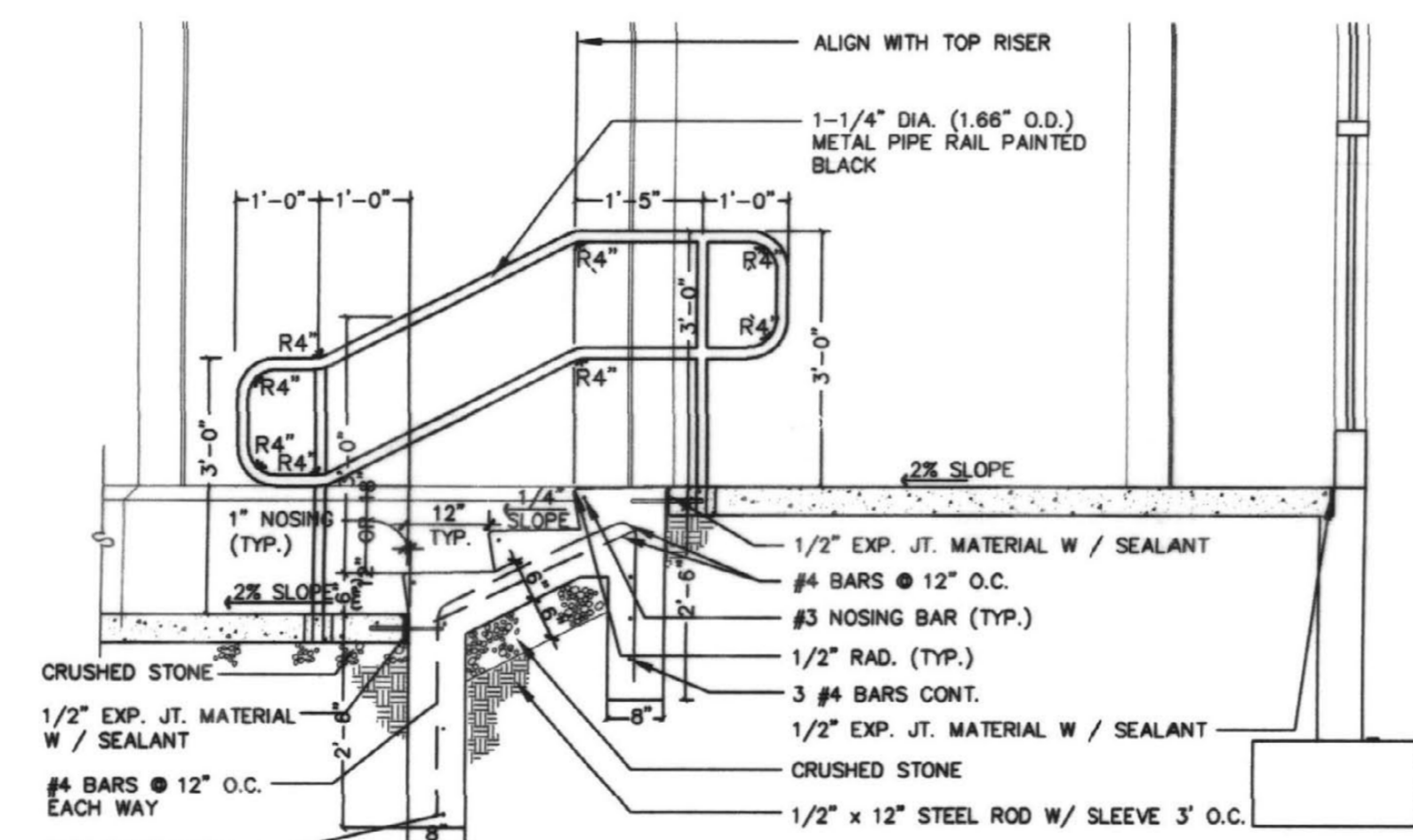
DISABLED LOGO
1/2" = 1'-0" (K)



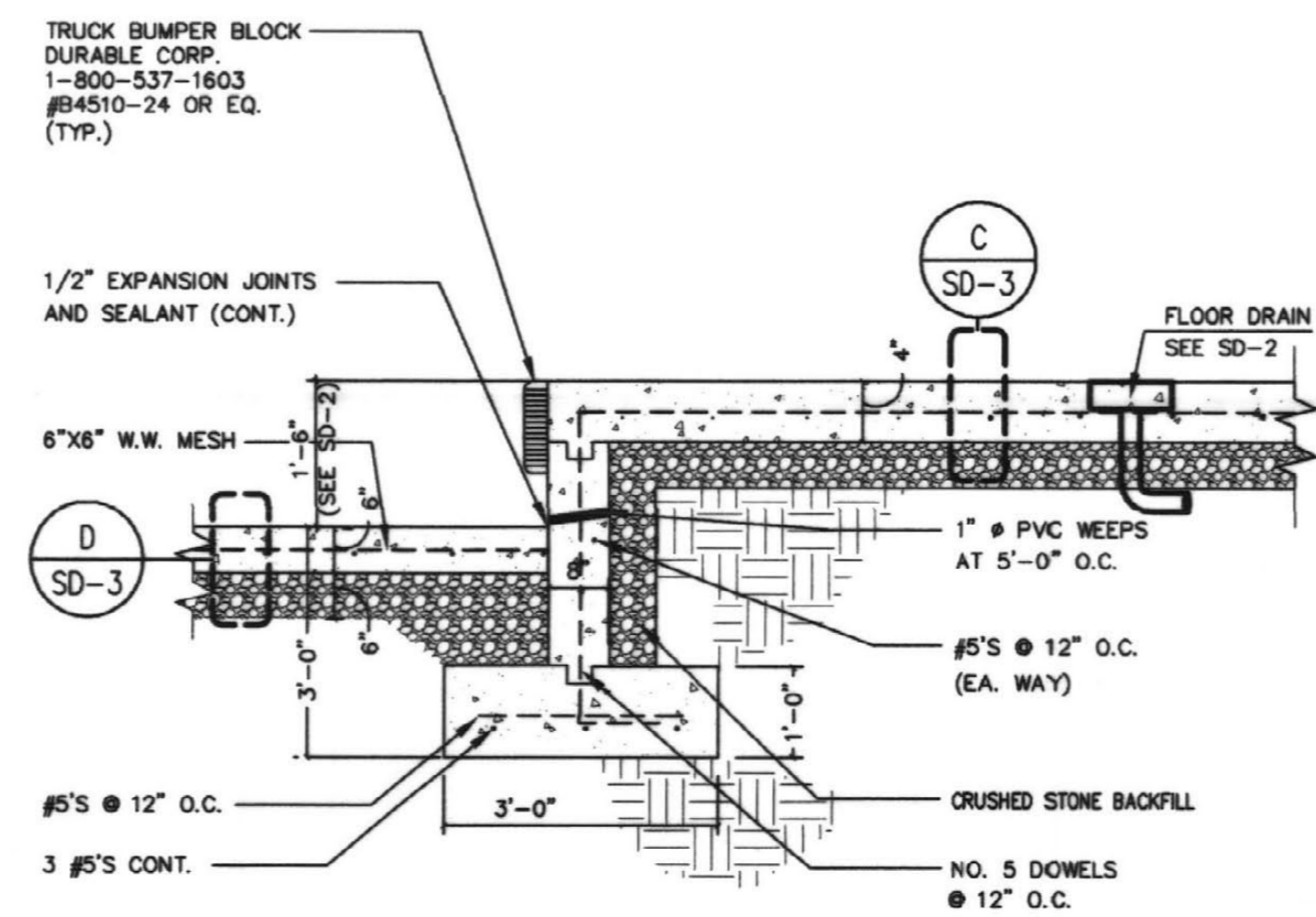
TYPICAL BOLLARD DETAIL
1/2" = 1'-0" (L)



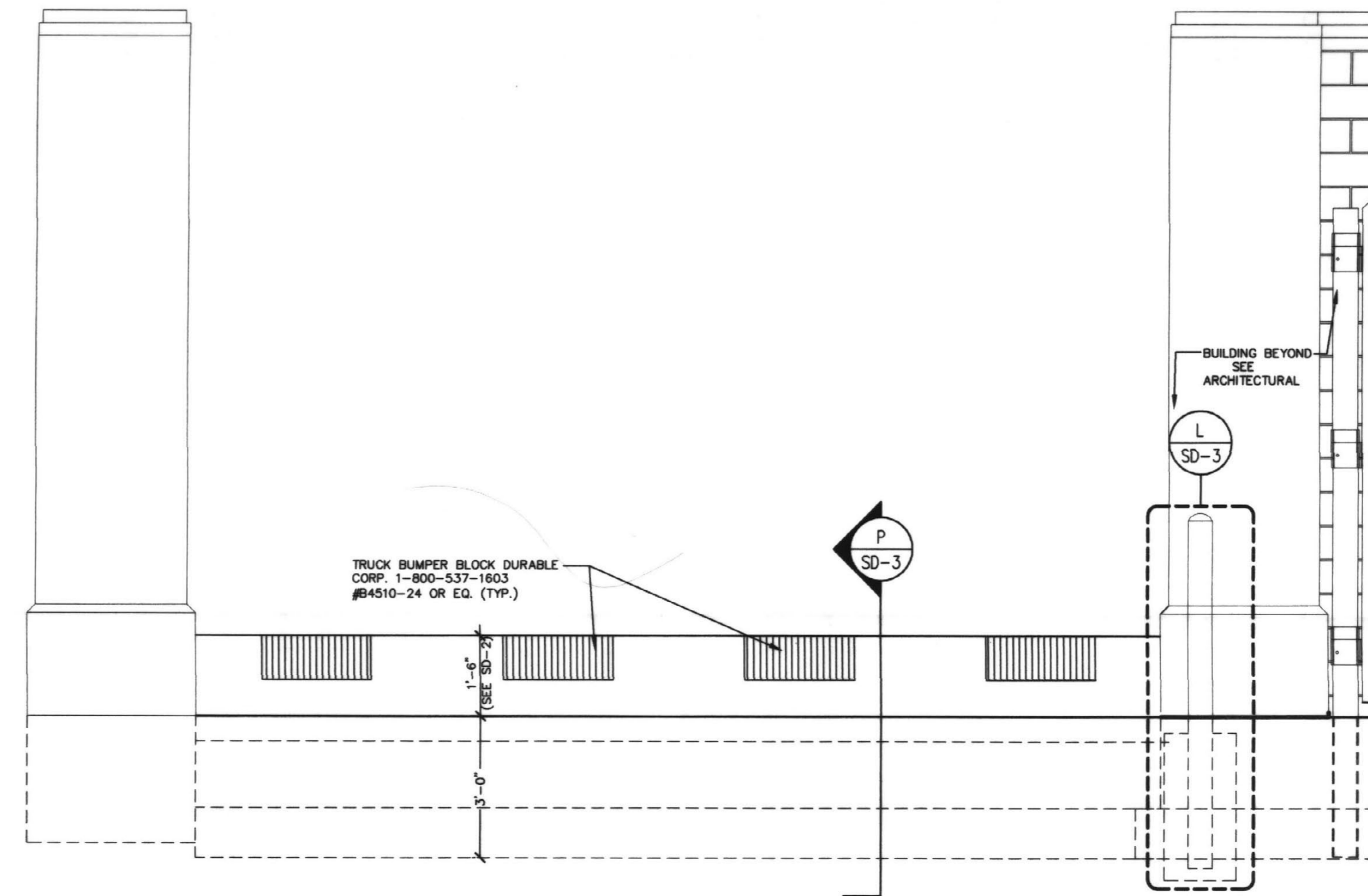
WALL MOUNTED HANDRAIL DETAIL
3" = 1'-0" (M)



CONCRETE STEPS AND GUARD
1/2" = 1'-0" (O)

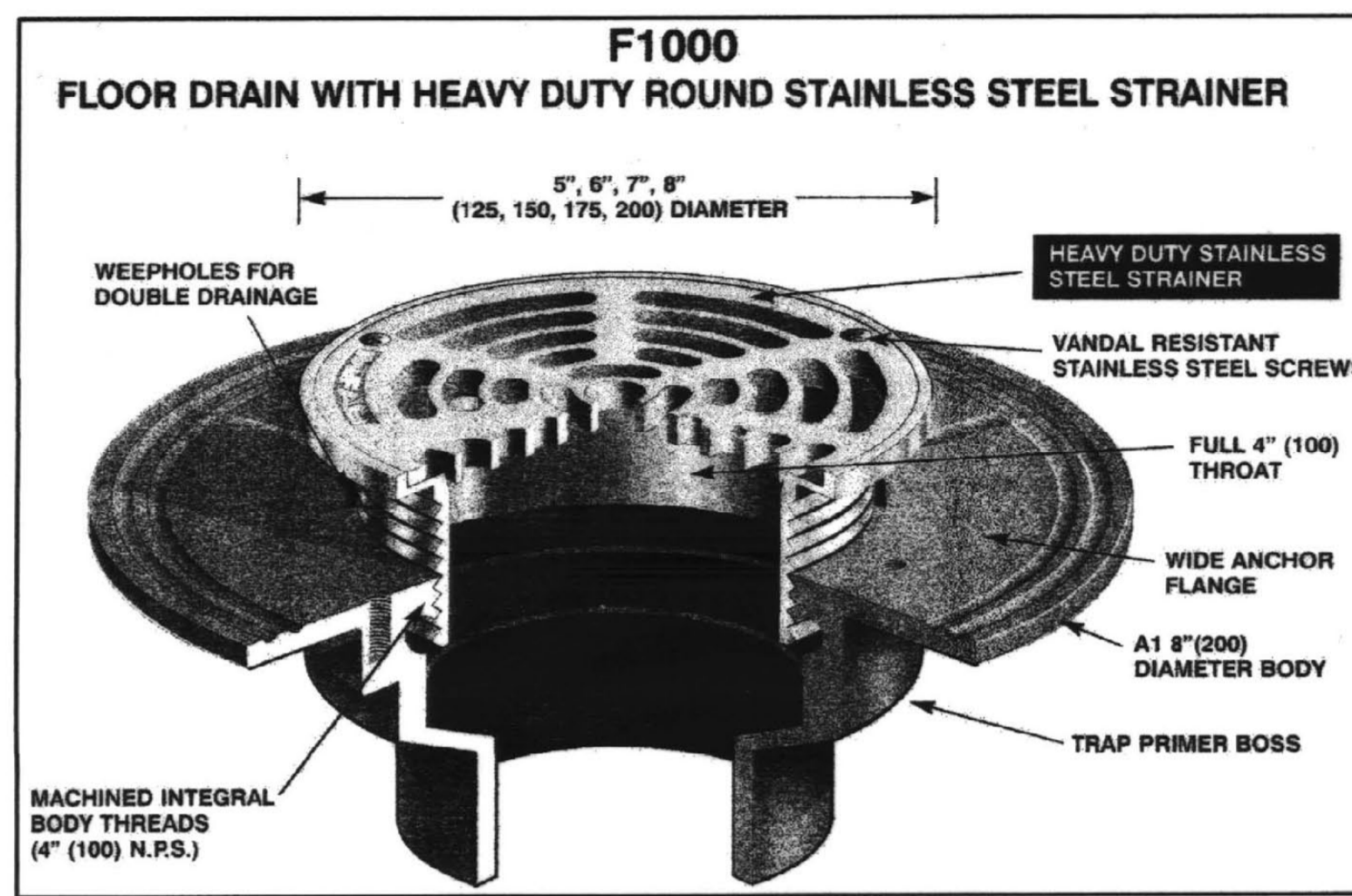


CONCRETE LANDING DOCK
1/2" = 1'-0" (P)

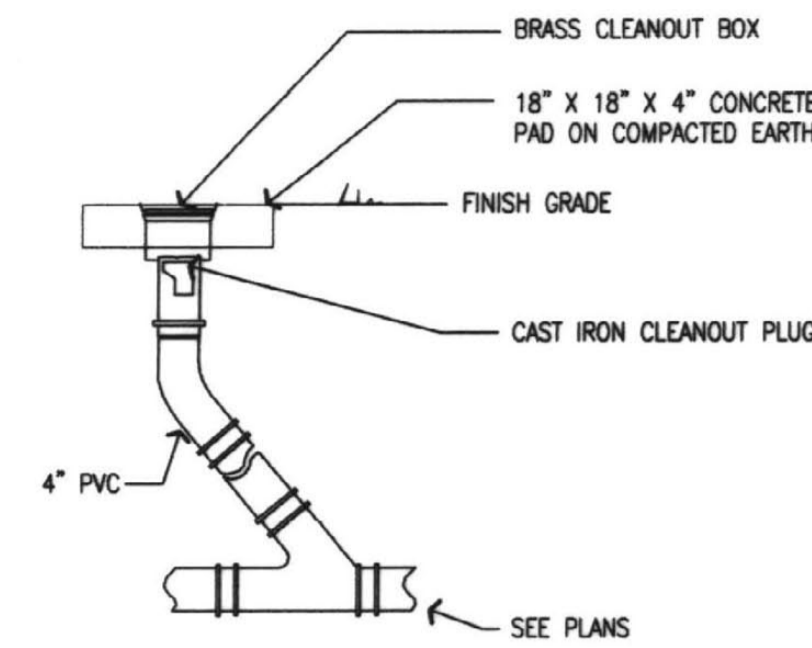


CONCRETE LANDING DOCK
1/2" = 1'-0" (Q)

NOT USED
(N)

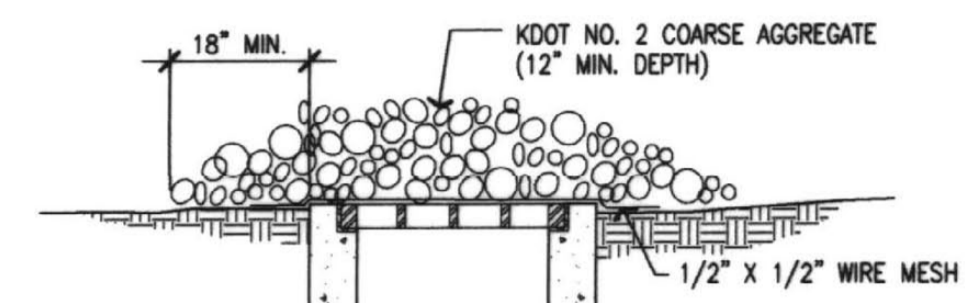


FLOOR DRAIN
N.T.S. **A**

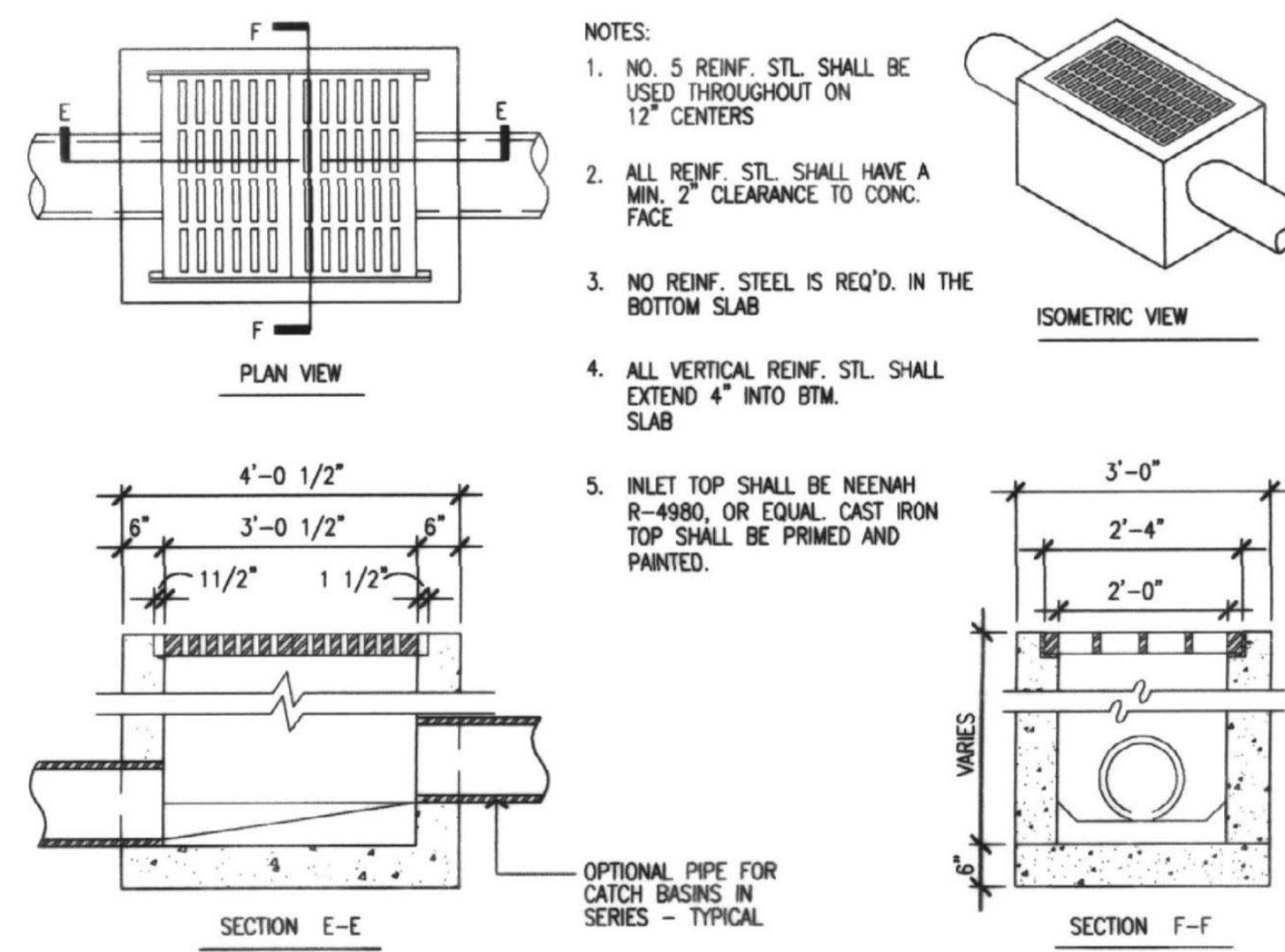


EXTERIOR CLEANOUT DETAIL
N.T.S. **B**

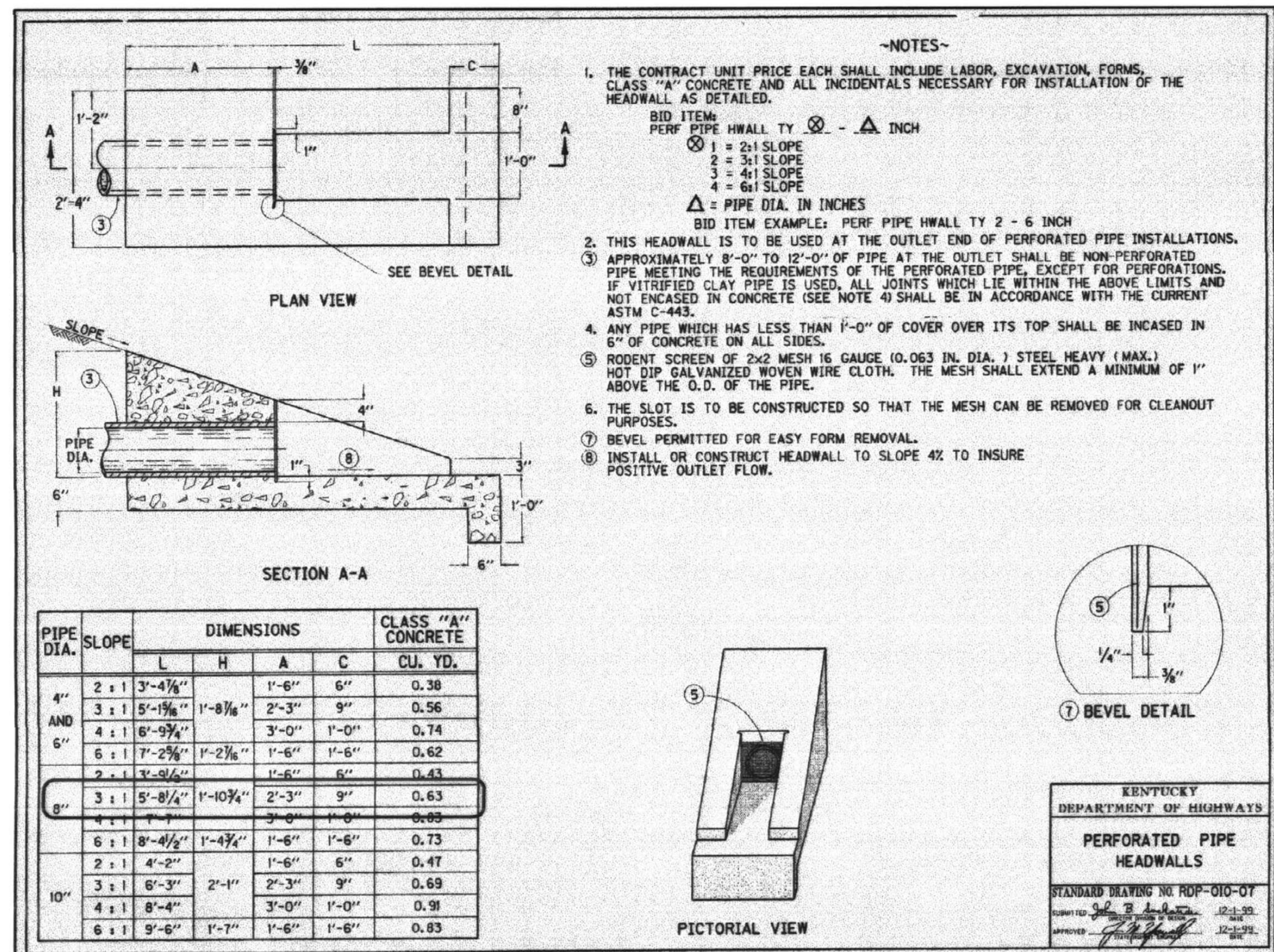
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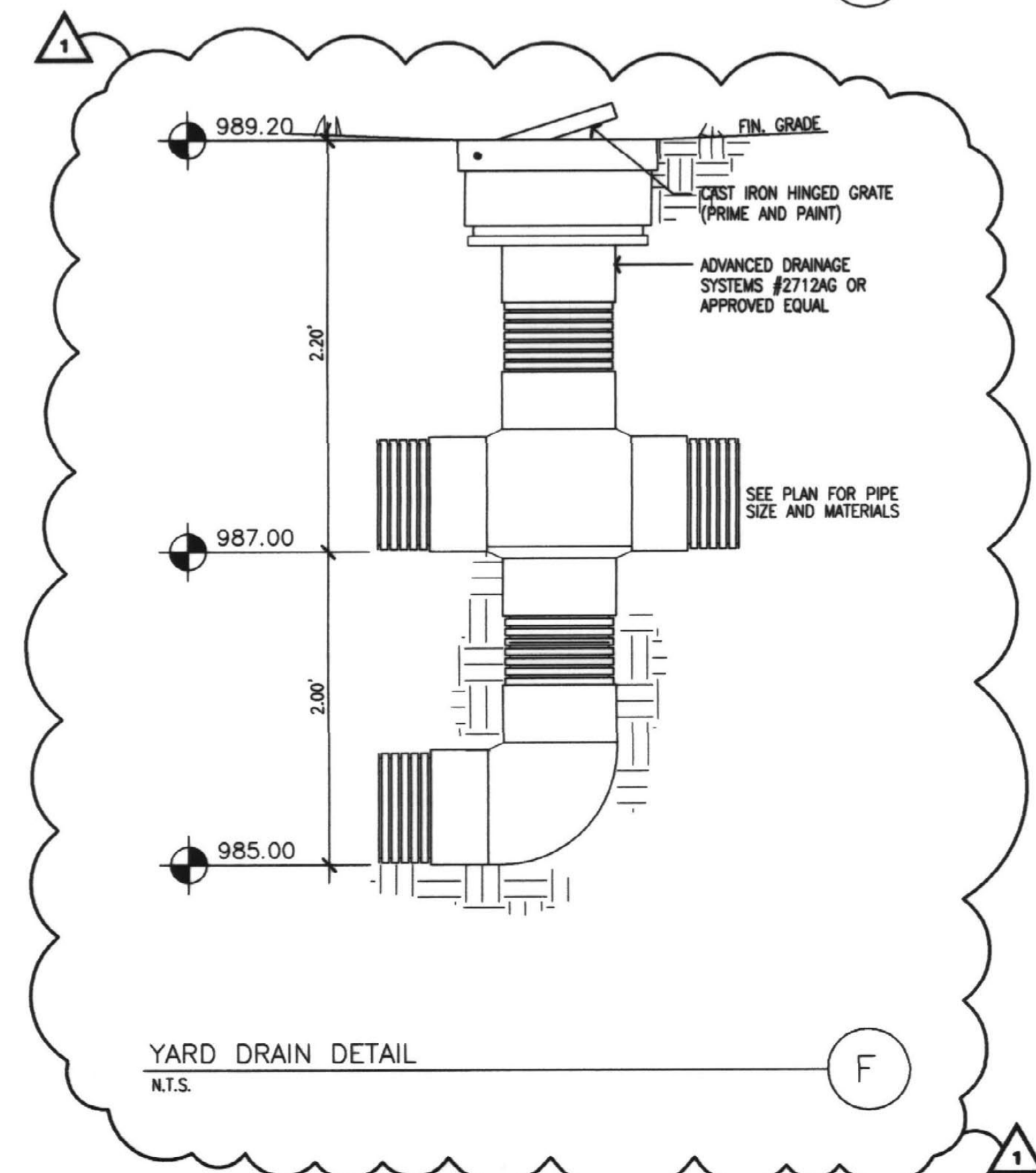
TEMPORARY INLET SEDIMENT FILTER
1/2" x 1'-0" **C**



CATCH BASIN
N.T.S. **D**



HEADWALL
N.T.S. **E**



YARD DRAIN DETAIL
N.T.S. **F**

RECORD DRAWINGS JUNE 18, 2003

Sherman Carter Barnhart PSC
PARTNERS IN ARCHITECTURE
2405 HARRISBURG ROAD • LEXINGTON, KY 40504 • PH: 859-224-1351 • FAX: 859-224-8446

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DATE: DECEMBER 14, 2001
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REVISIONS
1. Addendum #1.05, 01/17/02

SHEET
SD-4
7 of 7
A-3

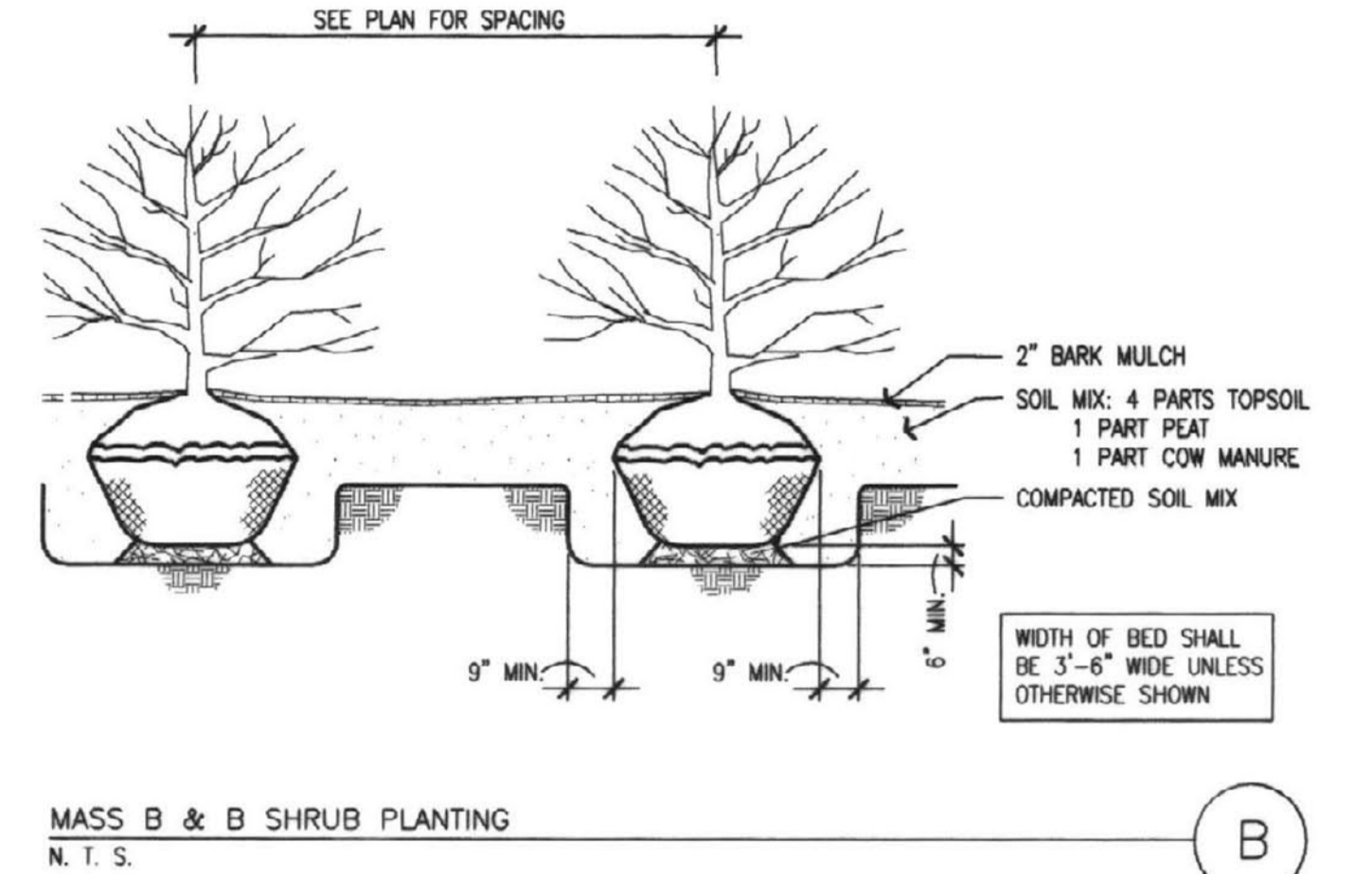
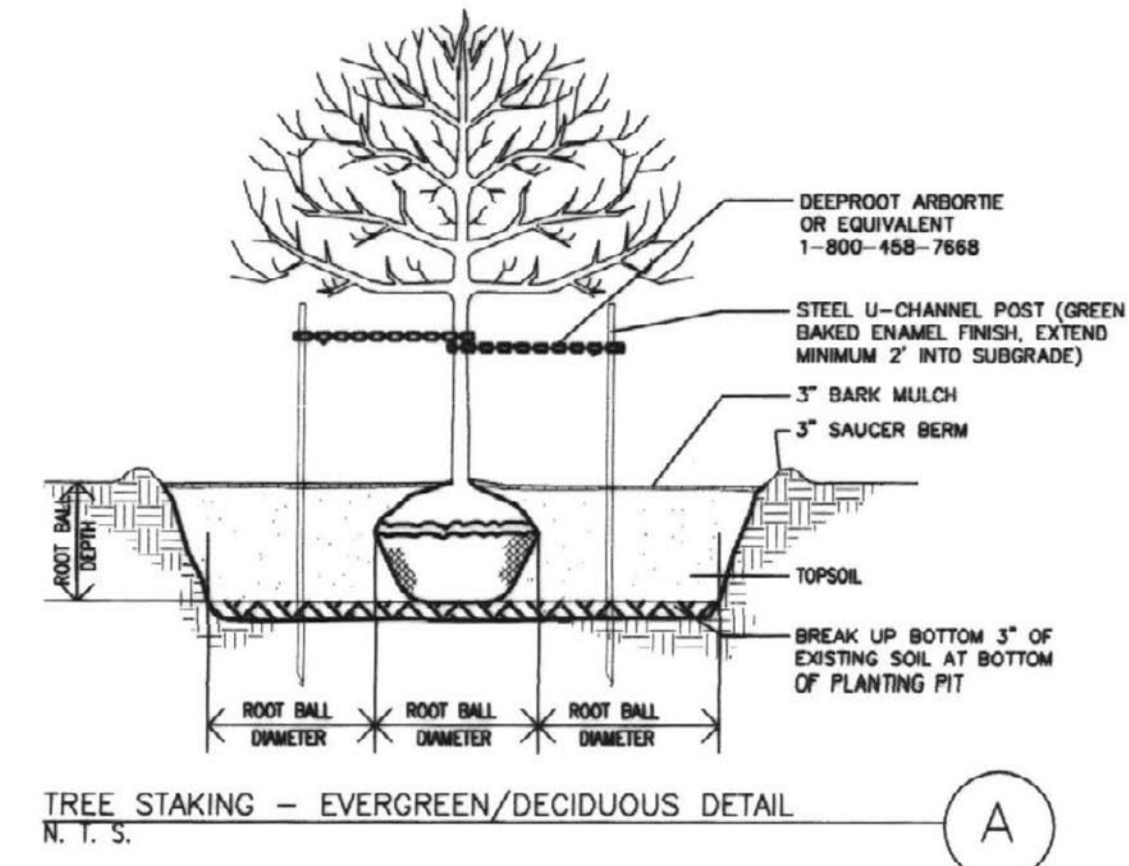
DRAINAGE DETAILS

Gluck Equine
Research Center Renovation
University of Kentucky

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KEY TO SHADING
 EXISTING BUILDING TO REMAIN
 LEGEND
 LIMITS OF CONSTRUCTION

NOTES
 LAWNS AND GRASSES
 ALL AREAS DISTURBED BY CONSTRUCTION, SOG AS SPECIFIED IN THE TECHNICAL SPECIFICATION, UNLESS BUILT UPON IN SOME OTHER FASHION.

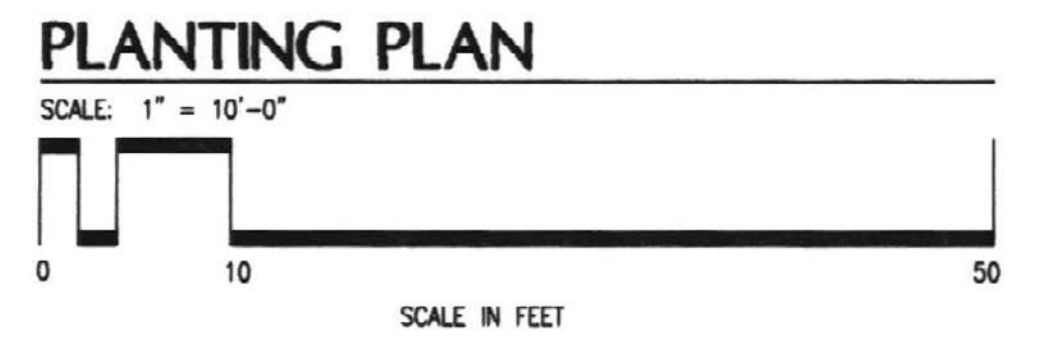
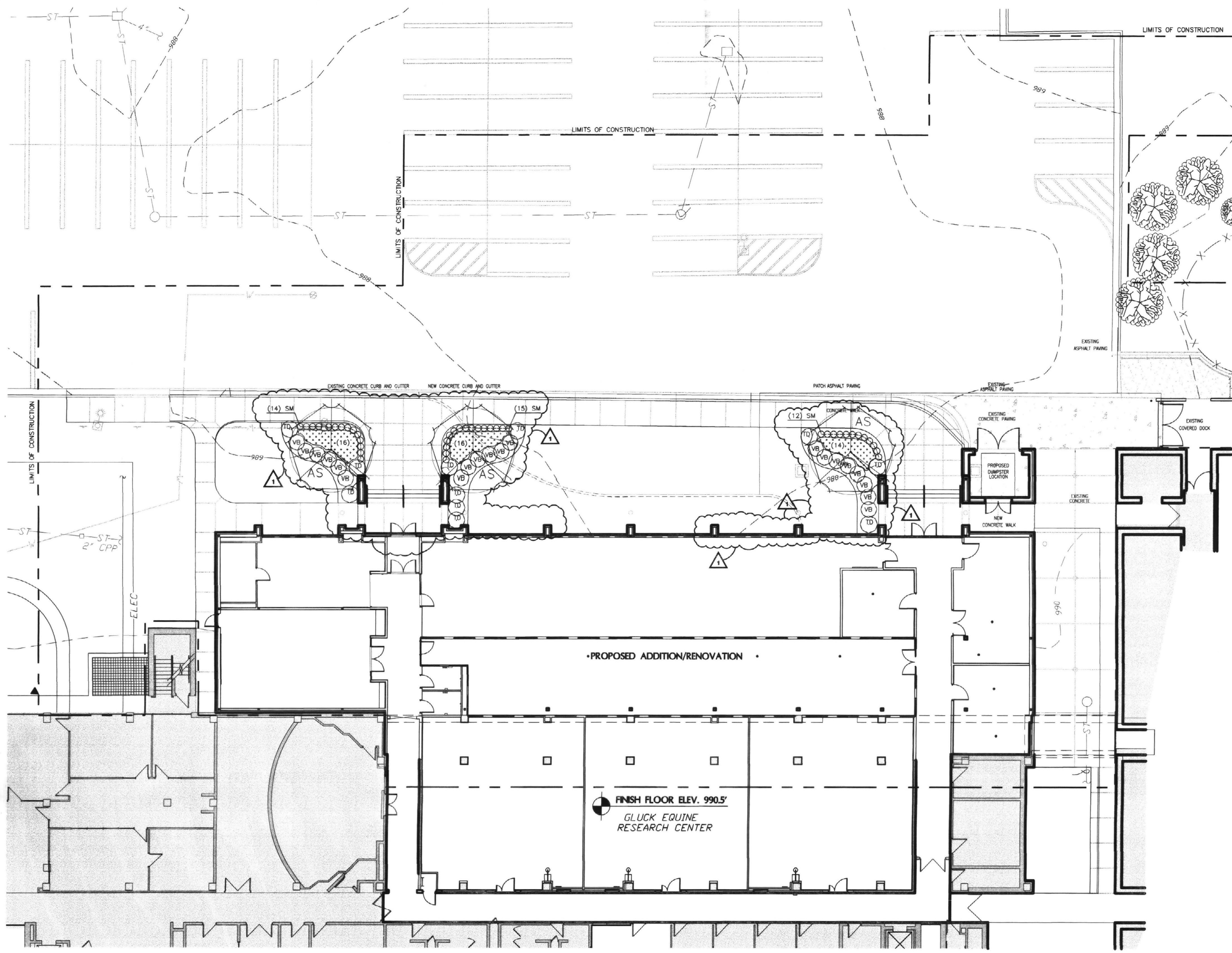


- Acer saccharum 'Green Mountain' Green Mountain Sugar Maple
- Taxus x media 'Densiformis' 'Densiformis' Yew
- Ilex x meserveae 'China Girl' China Girl Holly

- NOTES:
- DELETE ALL FOUNDATION PLANTINGS FROM ORIGINAL PL-1 SHEET.
 - SOG ALL AREAS DISTURBED BY CONSTRUCTION.
 - PRIOR TO PLANTING, FLAG ALL TREE LOCATIONS FOR APPROVAL BY OWNER'S REPRESENTATIVE.
 - CONTRACTOR TO PRUNE EXISTING CRABAPPLE TREE, ADJACENT TO PROPOSED GRAVEL RAMP, AS REQUIRED TO PROVIDE CLEAR PASSAGE ALONG RAMP. CONTRACTOR TO NOTIFY OWNER AND ENSURE THAT OWNER IS ON-SITE TO SUPERVISE PRUNING.

PLANT LIST

KEY	SCIENTIFIC NAME	COMMON NAME	COND.	SIZE	DETAIL
LARGE TREES					
AS	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	B & B	2-1/2" cal.	A / PL-1
SHRUBS					
TD	Taxus x media 'Densiformis'	'Densiformis' Yew	B & B	24"	B / PL-1
IM	Ilex x meserveae 'China Girl'	China Girl Holly	B & B	24"	B / PL-1



JOB NO. 0146
 DATE: DECEMBER 14, 2001
 DRAWN: JES, DCL
 CHECKED: TAM, JN, JDC, BKJ
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REVISIONS
 1. As-Built 05/29/03
 2. As-Built 05/29/03
 3. As-Built 05/29/03

SHEET
PL-1
 Job # Slect Document
 7 A-3 24872

STRUCTURAL NOTES

THE STRUCTURAL NOTES DEFINE GENERAL DESIGN AND MATERIAL REQUIREMENTS AND ARE INTENDED TO SUPPLEMENT, BUT NOT REPLACE, THE PROJECT SPECIFICATIONS

DESIGN CRITERIA

- Building Code: 1997 Kentucky Building Code
- Design Loads
 - Uniform Live Loads (reduced per Building Code, unless noted otherwise)

General Areas	100 psf
Roof	12-20 psf (with ponding loads per Code)
Ground Snow	15 psf (with drift loads per Code)
Snow Exposure Coefficient = 0.7	
Importance Factor = 1.0	
 - Concentrated Live Loads (distributed over an area of 2.5 square feet, unless noted otherwise)

General	2000 lb
---------	---------
 - Wind Loads: Wind Speed: 70 mph
Importance Factor = 1.0
Exposure C
 - Earthquake Loads

Effective Peak Velocity-Related Acceleration: $A_v = 0.07$
Effective Peak Acceleration: $A_a = 0.05$
Seismic Hazard Exposure Group: II
Seismic Performance Category: B
Soil Profile Type: S = .
Basic Structural System: Moment Resisting Frame System
Seismic Resisting System: Ordinary Moment Frames of Steel
Response Modification Factor: $R = 4.5$
Deflection Amplification Factor: $C_d = 4$
Analysis Procedure: Equivalent Lateral Force Procedure
Seismic Risk Zone I
- Estimated Deflections of Horizontal Structural Members

	Live	Dead + Live Load
Floor Members	L/360	L/240
Roof Members	L/360 or 1"	L/240

where L = member span (for cantilevers, L = twice the cantilever length)
- Structural Engineer is not responsible for the design of curtain wall/window wall systems, cold-formed metal framing, or other systems not shown in the Structural Documents. Such systems shall be designed, furnished, and installed as required by other portions of the Contract Documents.
- No provisions have been made for future building expansion.

GENERAL

- Reference to standards or specifications of technical societies, organizations, or associations, or to codes of local/state authorities, means the latest standard, specification, or code adopted by the date shown on the Drawings, unless specifically noted otherwise.
- Material, workmanship, and design shall conform to the referenced Building Code.
- For dimensions not shown on the Structural Documents, see the Architectural Documents.
- Contractor responsibilities include, but are not limited to, the following:
 - Coordinate the Structural Documents with the Architectural, Mechanical, Electrical, Plumbing, and Civil Documents. Architect/Structural Engineer shall be notified of any discrepancy or omission.
 - Verify existing dimensions, elevations, and site conditions before starting work. Architect/Structural Engineer shall be notified of any discrepancy or omission.
 - Verify the structurally supported mechanical equipment weights, operating sizes and locations identified on the Structural Drawings with Architectural and Mechanical Drawings.
 - Verify that miscellaneous framing shown on the Structural Drawings for mechanical equipment, Owner-furnished items, partitions, etc. is consistent with the requirements of such items.
 - The structure is stable only in its completed form. Temporary supports required for stability during all intermediate stages of construction shall be designed, furnished, and installed by the Contractor.
 - Contractor has sole responsibility for jobsite safety and complying with all health and safety precautions as required by any regulatory agency. In performing construction observation visits to the jobsite, the Structural Engineer will have no control over, nor responsibility for, the Contractor's means, methods, sequences, techniques, or procedures in performing the work.

SUBMITTALS AND STRUCTURAL TESTING/INSPECTIONS (SEE DIVISION 1 SPECIFICATIONS)

- Shop Drawings and Submittals
 - Reproduction of Structural Drawings for shop drawings is not permitted.
 - Electronic drawing files will not be provided to the Contractor.
 - Review of shop drawings will be for conformance with the Contract Documents regarding arrangement and sizes of members and the Contractor's interpretation of the design loads, if applicable, and Contractor Document details. Such review shall not relieve the Contractor of the full responsibility to comply with the Contract Documents.
- Structural Testing/Inspection is required. Refer to individual specification sections.

FOUNDATION (SEE DIVISION 2 SPECIFICATIONS)

- Geotechnical Report: Fuller, Mossberger, Scott, and May Engineers
Dated September 6, 2001 with Supplemental letter
Dated October 18, 2001
- Building Pad Preparation
 - Strip vegetation and topsoil.
 - Proofroll building areas with a minimum of two complete coverages of a loaded dump-truck or scraper in each of two perpendicular directions. Replace soft areas with compacted structural fill.
- Soil Bearing Capacity: Isolated Footings 1,800 psf
Strip Footings 2,400 psf
 - Footings shall not bear on rock. Remove rock, if any, for a depth of 2 feet below footing bearing elevation.

REINFORCEMENT (SEE SPECIFICATION 05200)

- Reinforcing Bars: ASTM A615, Grade 60
- Welded Wire Fabric (WWF): ASTM A185, 8" minimum side and end laps
- Reinforcement Placement (unless noted otherwise)
 - Concrete Reinforcement Cover

Below Grade: Unformed	3" clear
Formed	2" clear
Slabs	3/4" clear
 - Masonry reinforcing steel: Place in the center of CMU cells.
 - Reinforcement Splices
 - Reinforcement marked "Continuous" can be spliced at locations determined by Contractor.
 - All other reinforcement shall be spliced only at locations shown or noted, unless approved in writing by Structural Engineer.
 - Splice Lengths (unless noted otherwise)

Concrete Reinforcement: Class B Tension Lap	
Masonry Reinforcement: 48 bar diameters	
- Adhesive for Dowels in Existing Concrete: HIT HY150 injection adhesive supplied by Hilti Fastening Systems, EPOCON System Ceramic 6 Epoxy adhesive supplied by ITW Rammed/Red Head, Power-Fast epoxy injection gel supplied by Powers Fastening, or approved equal.
 - Minimum Embedment Length: 12 bar diameters, unless noted otherwise.

CAST-IN-PLACE CONCRETE (SEE SPECIFICATIONS 05100 AND 05300)

- Concrete Minimum 28-day Compressive Strength, f'_c
 - Normal Weight Structural Concrete

Footings	3,000 psi
Foundation Walls	3,000 psi
Slabs-on-grade	3,000 psi
 - Construction Joint Locations: No horizontal construction joints are permitted except those shown on the Structural Drawings or have written consent of the Structural Engineer.
 - Pipes or ducts shall not exceed one-third the slab or wall thickness unless specifically detailed. See mechanical and electrical drawings for location of sleeves, accessories, etc.
 - Special Finishes: Refer to Architectural Drawings for molds, grooves, ornaments, clips or grounds required to be encased in concrete and for location of floor finishes and slab depressions.
 - Defect Repair: Honey-combing, spalls, cracks, etc. shall be repaired. Extent of defective area to be determined by the Structural Engineer.

ARCHITECTURAL PRECAST CONCRETE (SEE ARCHITECTURAL SPECIFICATIONS)

- Design of architectural precast elements and their connections shall be the sole responsibility of the Contractor. Submit shop drawings, design load data, and support reactions of precast elements and their connections sealed by an Engineer licensed in the project state.
- Connections: Connection concepts only are shown in sections and details of the Contract Documents. The design and frequency of connections shall be the responsibility of the Precast Supplier and the Precast Design Engineer in coordination with the panel design itself. Shop drawings shall adequately show the architectural precast panel attachment locations to the structure.
- The precast elements are to be supported by the foundation wall or by adjacent precast elements. Do not support the precast elements on the structural steel framing although the lateral bracing for the precast can be attached to the steel framing.

CONCRETE MASONRY (SEE SPECIFICATION 04200/04220)

- CMU Minimum Compressive Strength, $f'_m = 1,500$ psi.
- Mortar: Walls below grade Type M
Bearing walls Type M or S
- Coarse Grout: 2,500 psi min. compressive strength conforming to ASTM C476. Grout solid fill bond beams, reinforced CMU cores, and all CMU cores below grade.
- Horizontal Joint Reinforcement: No. 9 gage longitudinal wires at 16" vertically, unless noted otherwise. Provide special accessories for corners, intersections, etc.
- Contraction Joints: Maximum spacing of 3 times of wall height or 30 feet (whichever is less) in all concrete masonry walls.

STRUCTURAL STEEL (SEE SPECIFICATION 05100)

- Steel Shapes
 - W-Shapes: ASTM A992 (Grade 50)
 - Angles, Channels: ASTM A36
 - Square/Rectangular Hollow Structural Sections (HSS): ASTM A500, Grade B
 - Round Hollow Structural Sections: ASTM A501 or ASTM A53, Grade B
 - Structural steel exposed to weather shall be galvanized.
- Anchors, Bolts, and Studs
 - Anchor Rods: Headed A307 Bolts or A36 Rods with plate washer
 - Expansion Anchors: Hilti Kwik Bolt II anchors, Trubolt Wedge Anchors (for concrete use only), Power-Stud anchors, or approved equal. Minimum embedment = 6 times anchor diameter, unless noted otherwise.
 - Adhesive Anchors: HIT HY150 Injection Adhesive Anchors (HIT HY20 for masonry construction), EPOCON System Ceramic 6 Epoxy Adhesive Anchors, Power-Fast Epoxy Injection Gel, or approved equal. Minimum Embedment = 6 times anchor diameter, unless noted otherwise.
 - Bolts: 3/4" Diameter A325 minimum. The following connections are slip-critical:

Column cap plate	
Any field modified connection	

 All other connections may be bearing type. Design bearing type connections for load values with threads included in the shear plane. Submit proposed bolt tightening procedure for review.
- Structural steel shall be fabricated and erected according to the "Load and Resistance Factor Design Specification for Structural Steel Buildings" and the AISC "Code of Standard Practice for Steel Buildings and Bridges."
- Connections shall be detailed based on the design information provided in the Structural Documents.
 - Standard Shear Connections: Detail as bolted or welded double-angle, single-plate, single-angle, or tee connections in accordance with the connection tables in the "Manual of Steel Construction: LRFD", Second Edition, Volume II, Part 9.
 - Welded Connections: Prequalified welded joints in accordance with AISC and the Structural Welding Code of the American Welding Society; "Non-prequalified joints" shall be qualified prior to fabrication.
 - Factored Design Forces/Reactions: As shown on the Structural Drawings or, if not shown, the factored design reaction shall be half of the maximum factored uniform load tabulated in the "Manual of Steel Construction: LRFD", Second Edition, Volume I, Part 4.
- Shop Drawings: Submittal shall adequately depict structural members and connections.

STEEL DECK (SEE SPECIFICATION 05300)

- Steel Roof Deck: 22 gage, galvanized
- Submit shop drawings with the manufacturer's catalog demonstrating compliance with the Contract Documents and the Steel Deck Institute.

DRAWING INDEX

- SO.1---STRUCTURAL NOTES
- S1.1---FOUNDATION AND FIRST FLOOR PLAN
- S1.2---ROOF FRAMING PLAN
- S2.1---FOUNDATION SECTIONS AND DETAILS
- S3.1---MASONRY SECTIONS AND DETAILS

STRUCTURAL ABBREVIATIONS

AFF	Above Finished Floor
ALT	Alternate
ARCH.	Architect/Architectural
BLDG	Building
B or BOT.	Bottom
CJ	Bottom of Something, e.g. B/FTG
CL	Centerline
CLR	Clear
CMU	Concrete Masonry Unit
COL.	Column
CONG.	Concrete
CONT.	Continuous
DBL	Double
DIA.	Diameter
DL	Dead Load
DP	Drilled Pier
DWG	Drawing
EE	Each End
EF	Each Face
EW	Each Way
EJ	Expansion Joint
EL.	Elevation
EQ.	Equal
ELEV.	Elevator
EMBED.	Embedment/Embedded
EOS	Edge of Slab
EXP.	Expansion
EXT.	Exterior
EQUIP.	Equipment
F/xxx	Face of Something, e.g. F/BEAM
FDN	Foundation
FIN.	Finished
FLR	Floor
FS	Far Side
FT	Feet
GA.	Gage
GALV.	Galvanized
HDL	Headed
HORIZ.	Horizontal
INT.	Interior
JOINT	Joint
K	Kips
kst	Kips per square inch
kst	Kips per square foot
lb or #	Pounds
LL	Live Load
LLH	Long Leg Horizontal
LIV	Long Leg Vertical
MPE	Mechanical, Plumbing and Electrical
MFR	Manufacturer
MATL	Material
MAX.	Maximum
MECH.	Mechanical
MIN.	Minimum
MISC.	Miscellaneous
NS	Near Side
N/A	Not Applicable
NTS	Not to Scale
OPP.	Opposite
PART.	Partial
PERM.	Permanence
PL	Plate
psf	Pounds per square foot
psi	Pounds per square inch
R	Reaction
RAD.	Radius
RD	Roof Drain
REINF.	Reinforcing/Reinforcement
REQD	Required
REV.	Revision/Revised
SECT.	Section
SIM.	Similar
SPECS	Specifications
SQ.	Square
STD	Standard
STIFF.	Stiffener
STL	Steel
SYM.	Symmetrical
T	Top
T/xxx	Top of Something, e.g. T/SLAB
THK	Thick
TYP.	Typical
UNO	Unless Noted Otherwise
VERT.	Vertical
w/	With
w/o	Without
WF	Work Point
WT	Weight
WWF	Welded Wire Fabric

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Shepherd Carter Barnhart
PARTNERS IN ARCHITECTURE
2405 HARRISONBURG ROAD • LEWISTON, KY 40504 • PH: 859-224-1351 • FAX: 859-224-8446

JOB NO. 0148
DATE DECEMBER 14, '03
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CHECKED C.B.
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REVISIONS

SHEET

SO.1

FOOTING SCHEDULE

MARK	SIZE	REINF.	PEDESTAL			REMARKS
			SIZE	REINF.	TIES	
F4	4'-0"x4'-0"x1'-3"	3-#4 E.W.	-	-	-	
F4SP	SEE 10/S2.1					
F4x6	4'-0"x6'-0"x1'-3"	#5@12" E.W.	-	-	-	

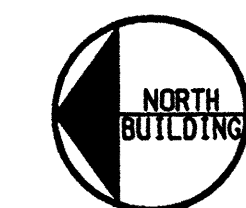
T/SLAB EL. = 100'-0"
(991'-0") MATCH EXIST.
6" CONCRETE SLAB WITH NWF 6x6-
N2, 4xN2, 4 ON VAPOR BARRIER (10 MIL.)
AND 4" (MIN.) GRANULAR SUB-BASE
AT MECH. ROOM

T/SLAB EL. = 100'-0"
(991'-0") MATCH EXIST.
4" CONCRETE SLAB WITH NWF 6x6-
N1, 4xN1, 4 ON VAPOR BARRIER (10 MIL.)
AND 4" (MIN.) GRANULAR SUB-BASE

T/SLAB EL. = (MATCH EXISTING)
CONCRETE INFILL AT EXISTING
RECESSED SLAB WITH NWF
6x6- N1, 4xN1, 4

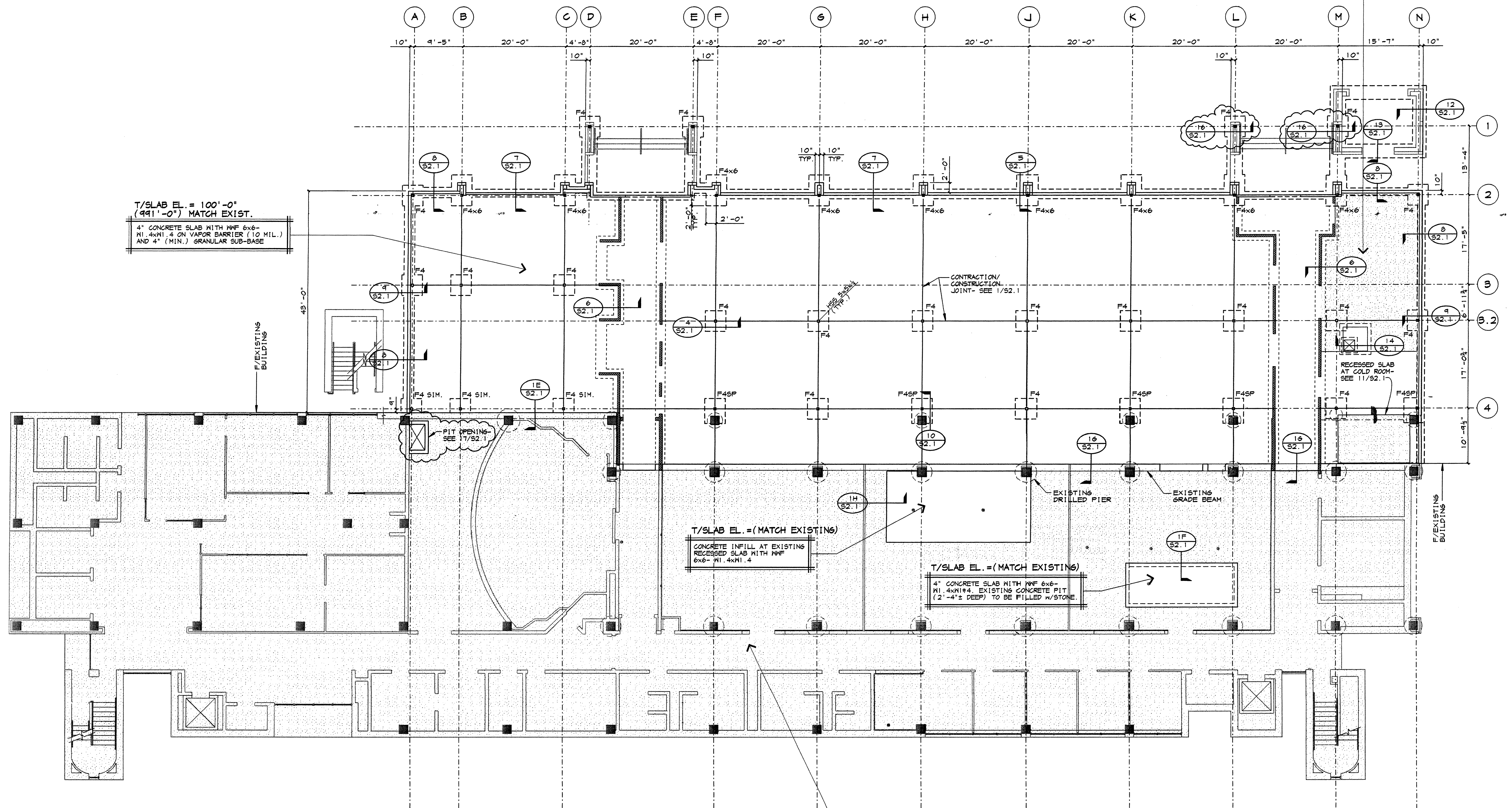
T/SLAB EL. = (MATCH EXISTING)
4" CONCRETE SLAB WITH NWF 6x6-
N1, 4xN1@4. EXISTING CONCRETE PIT
(2'-4"± DEEP) TO BE FILLED W/STONE.

NOTE:
AT TRENCHES IN EXISTING SLAB-ON-GRADE
FOR NEW PIPING, ETC., PROVIDE 4" CONCRETE
SLAB TO MATCH EXISTING.



FOUNDATION AND FIRST FLOOR SLAB PLAN

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SDG Project No. 2001-17-06

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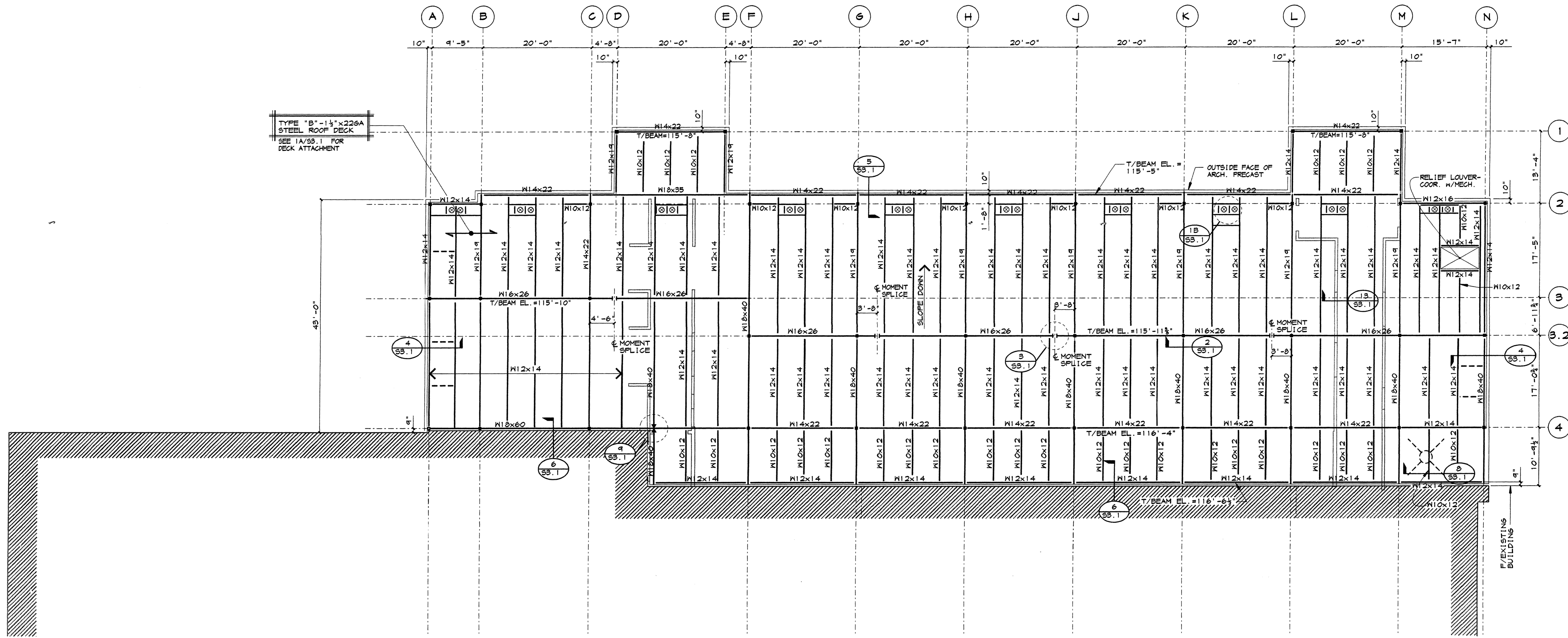
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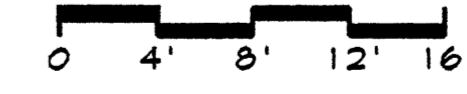
STRUCTURAL DESIGN GROUP
2110 BARKER
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ROOF FRAMING PLAN



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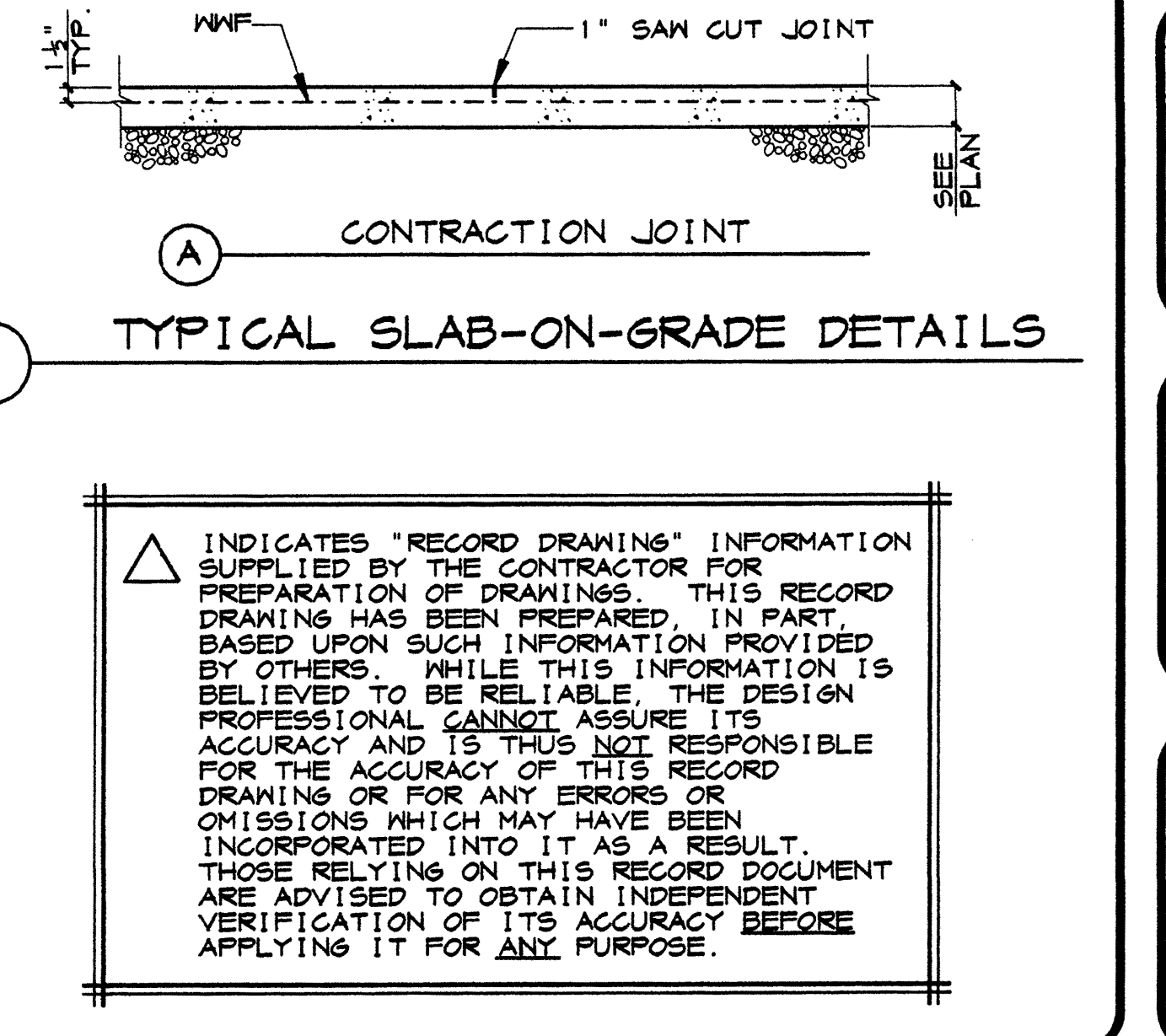
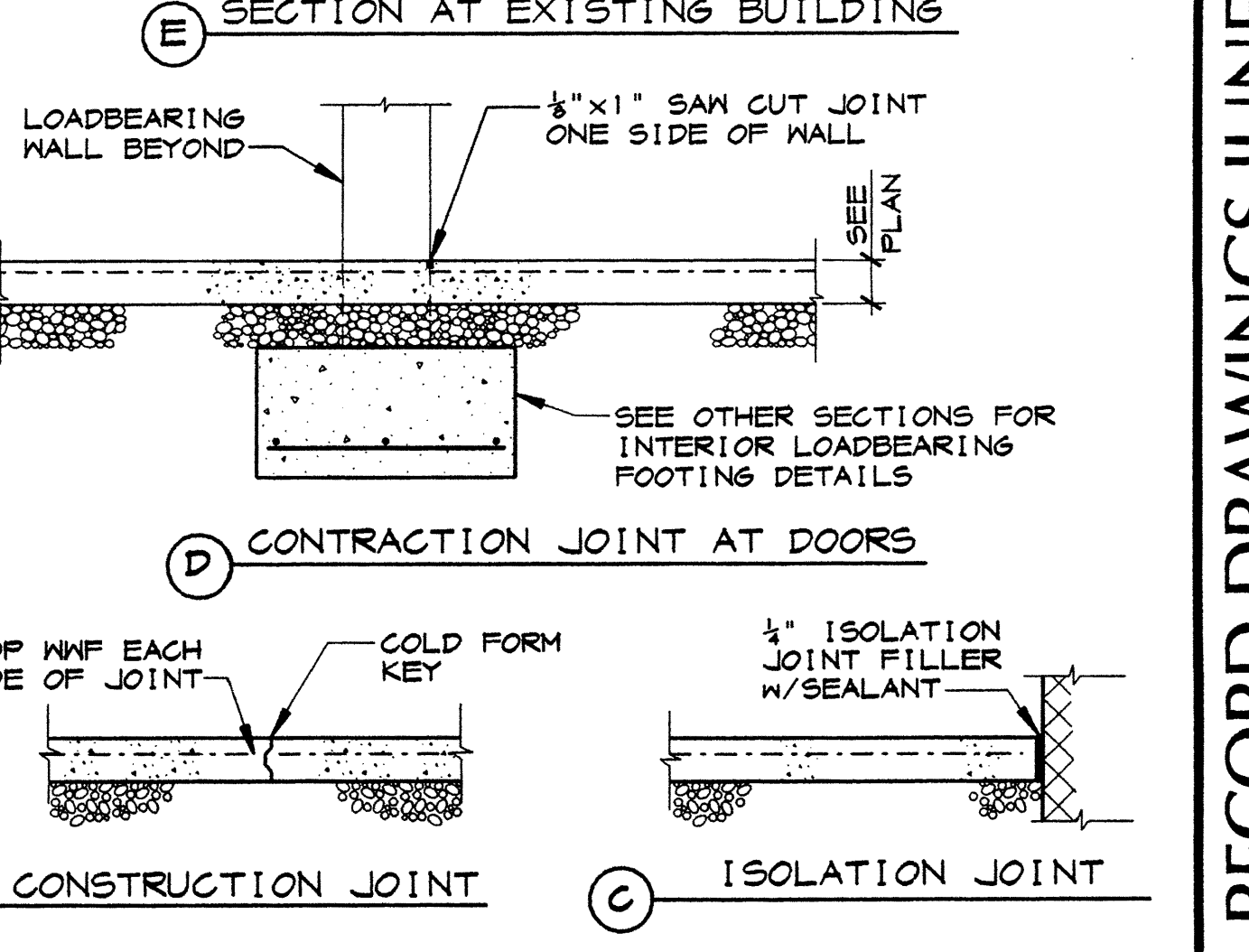
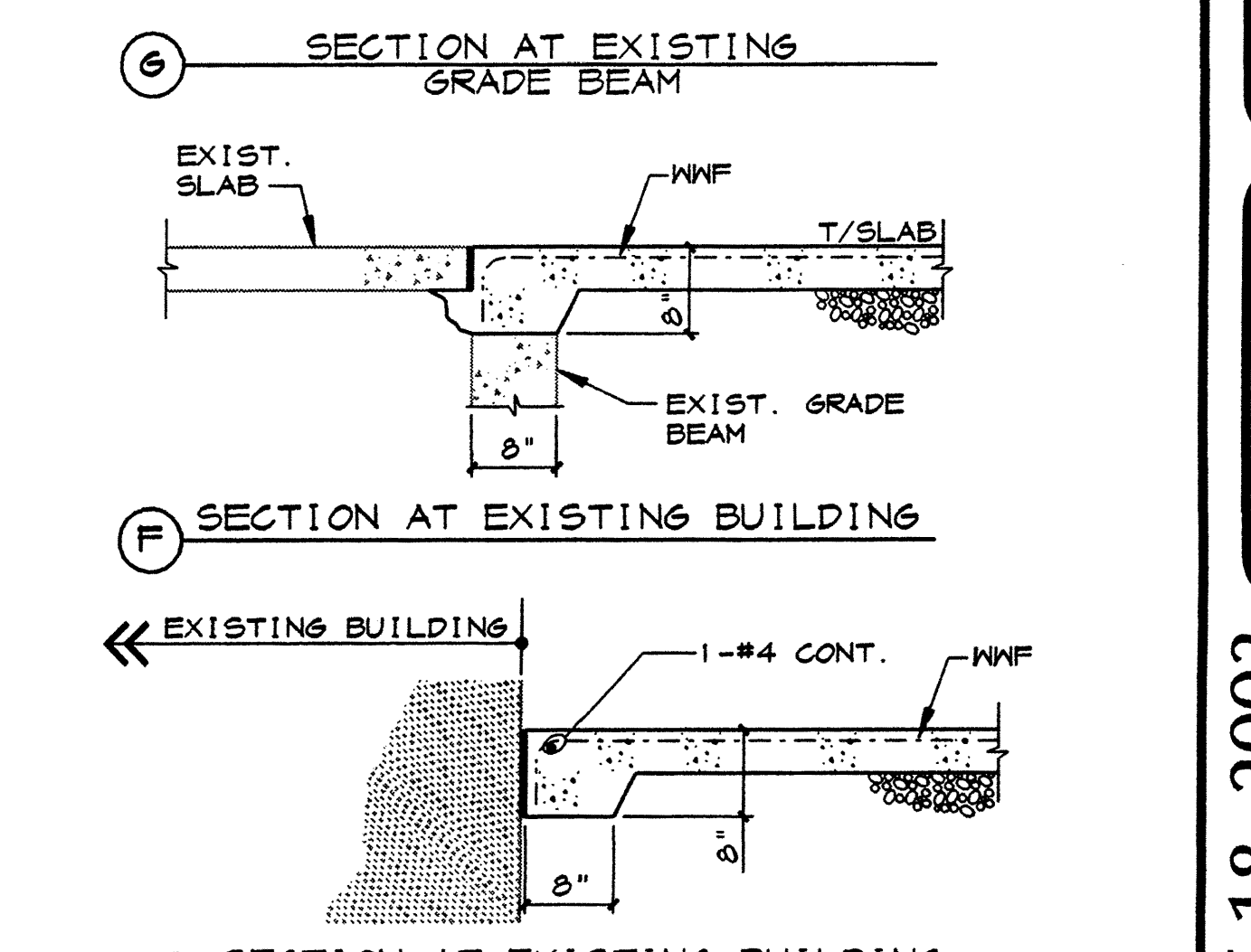
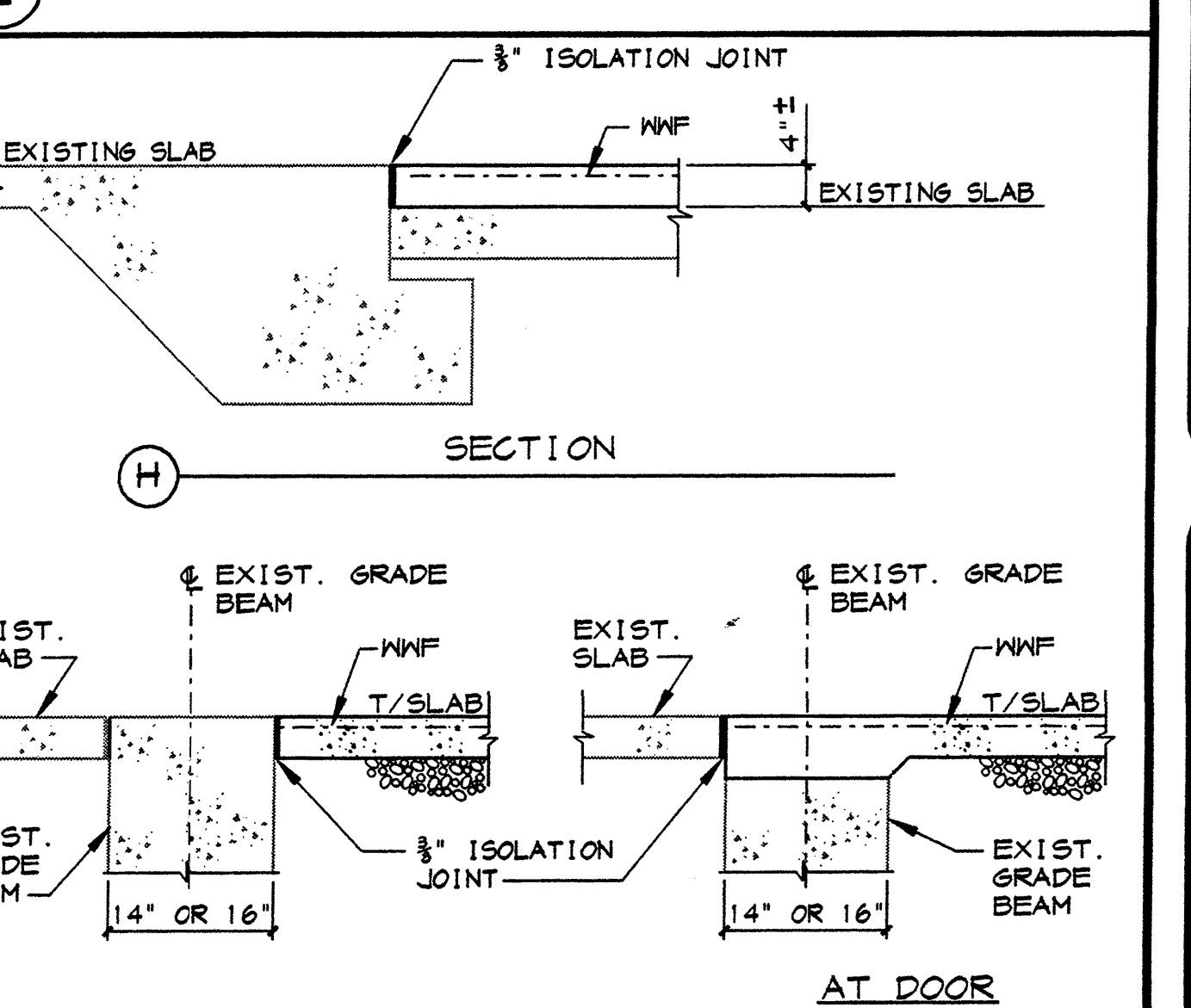
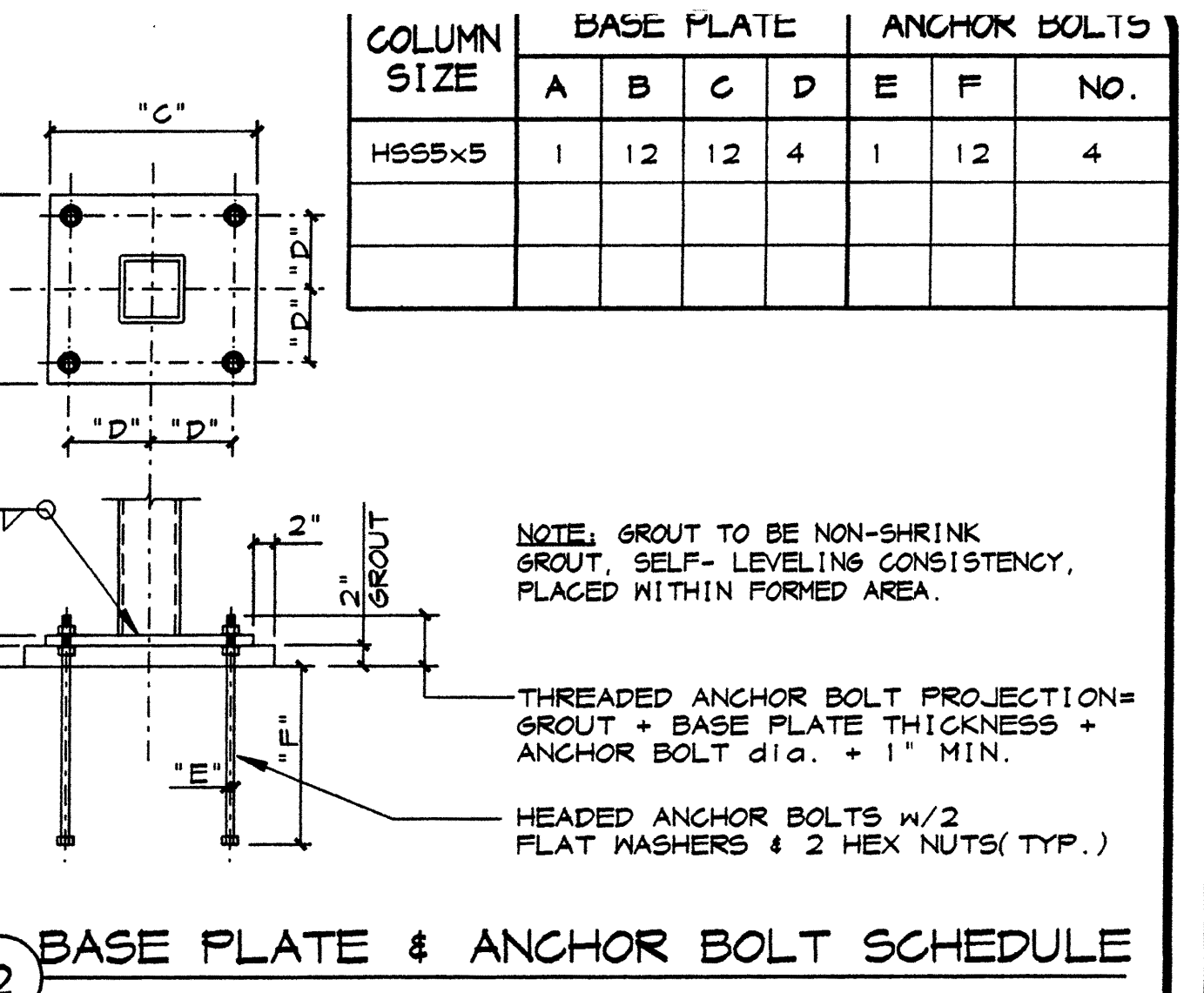
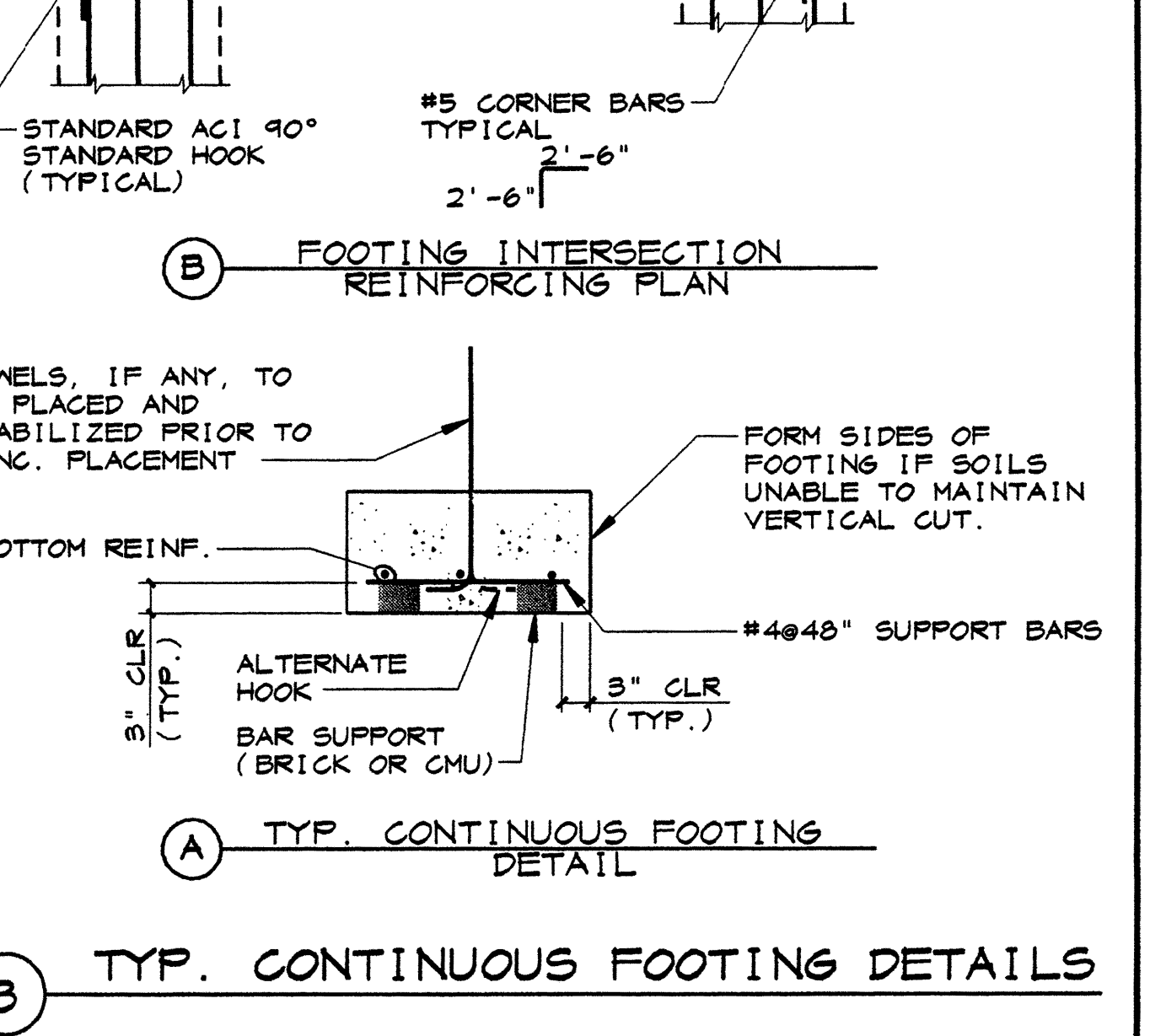
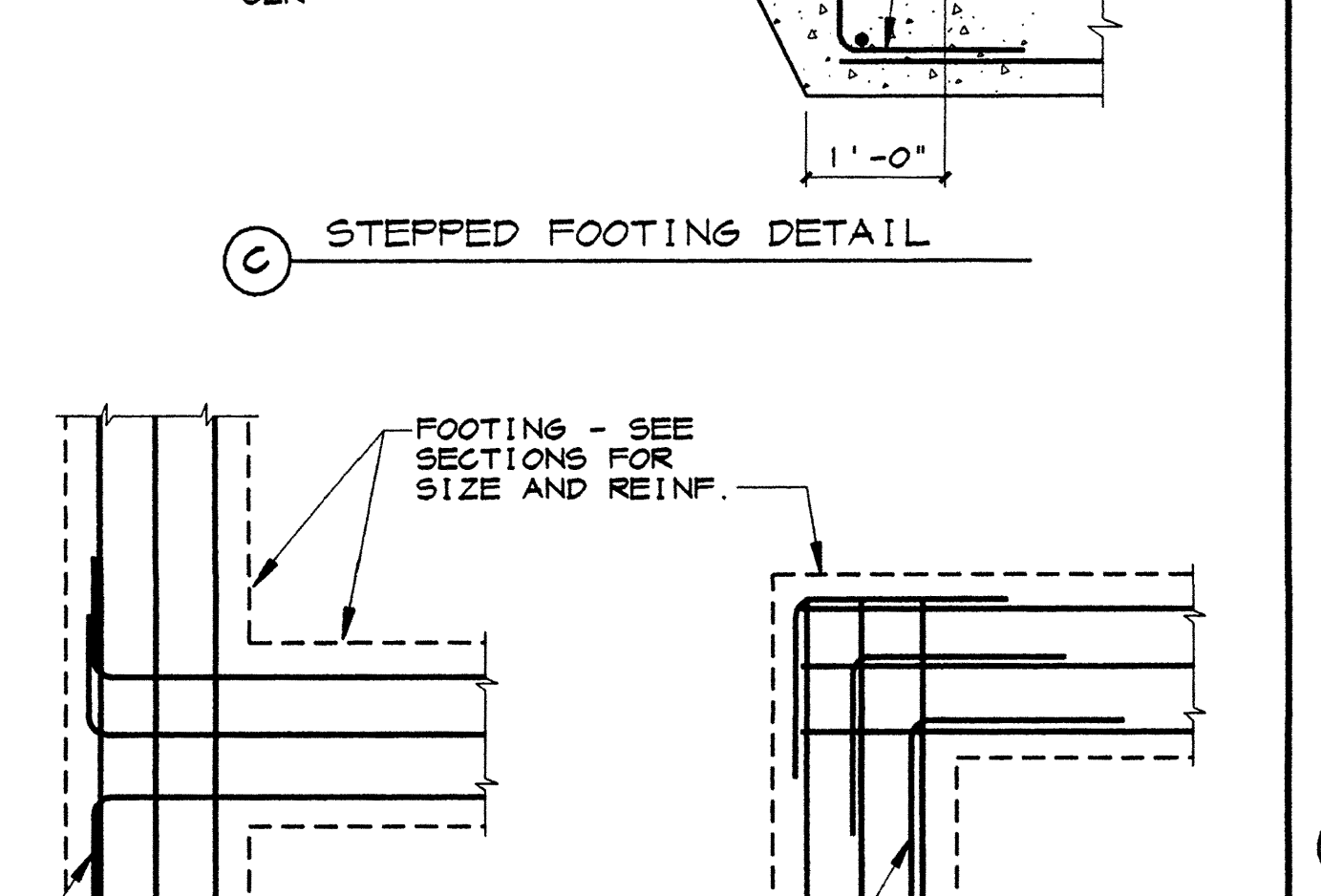
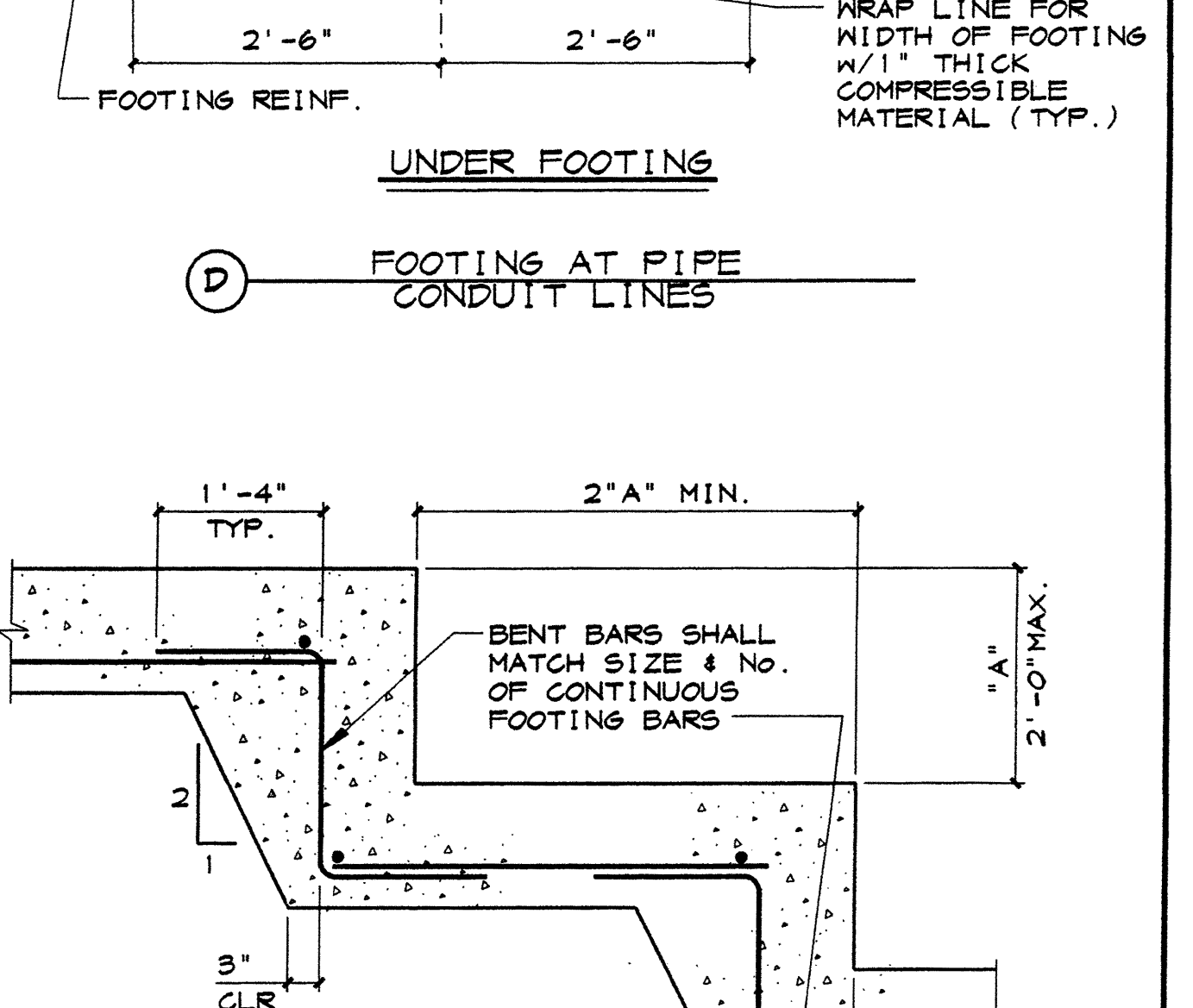
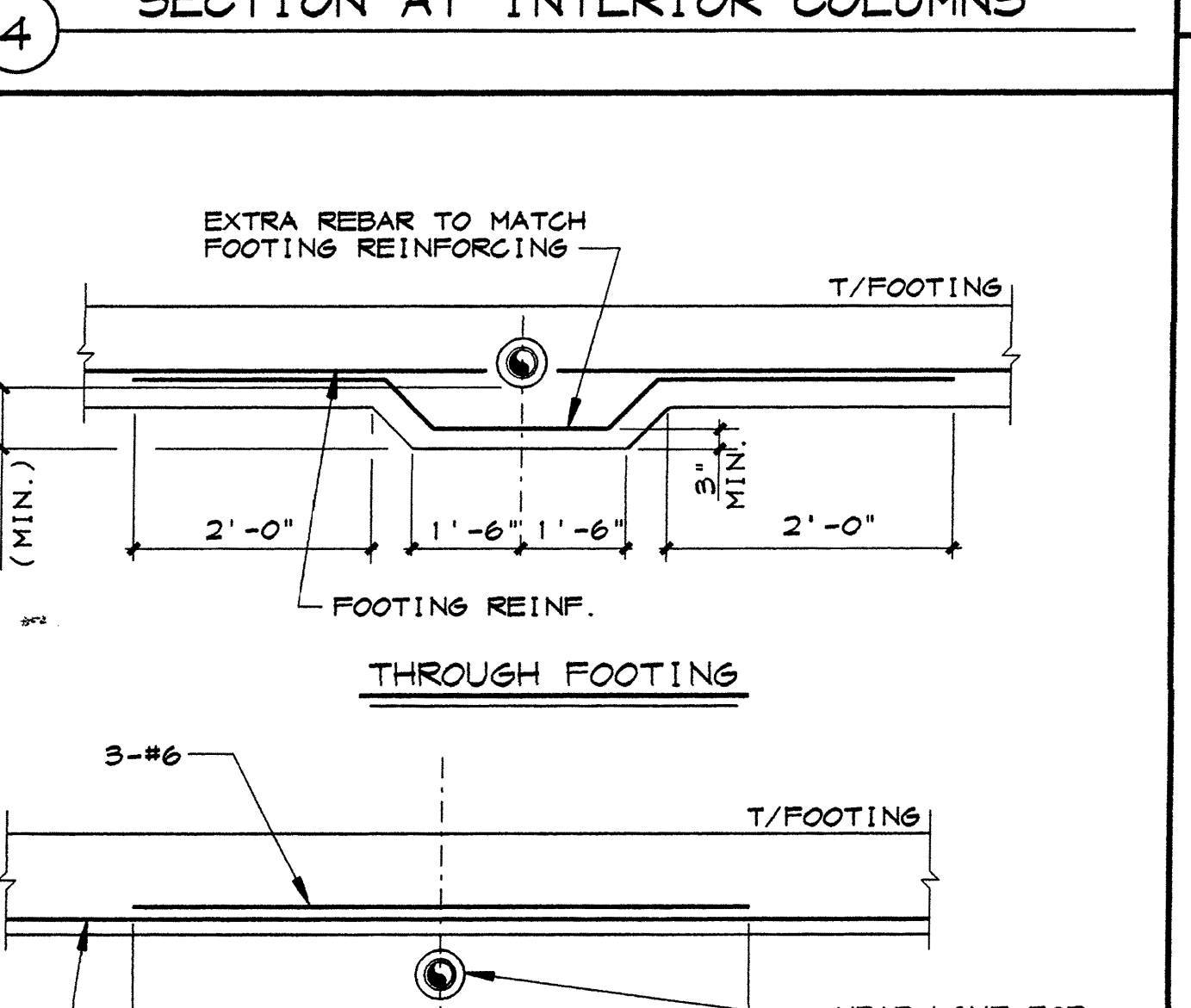
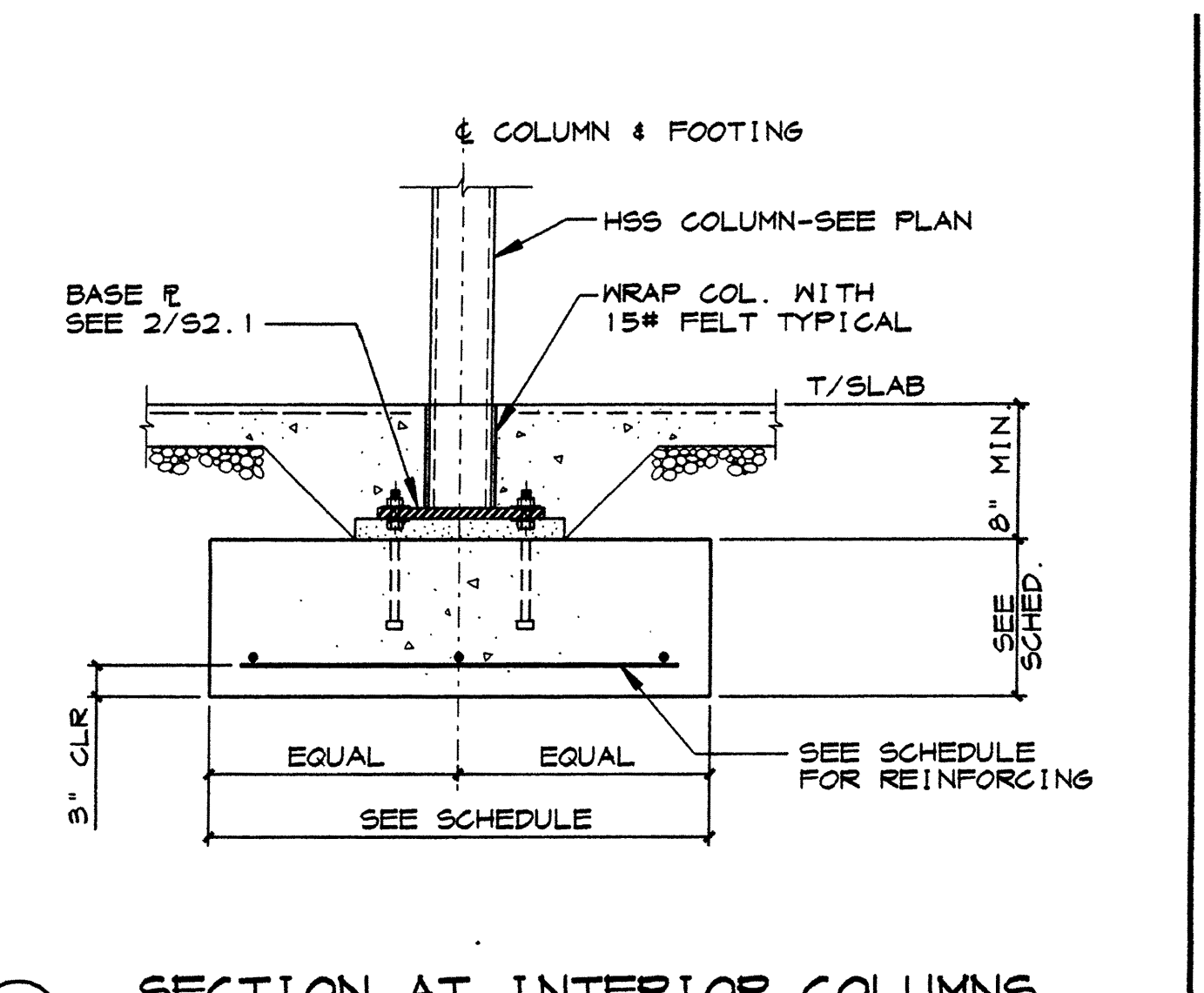
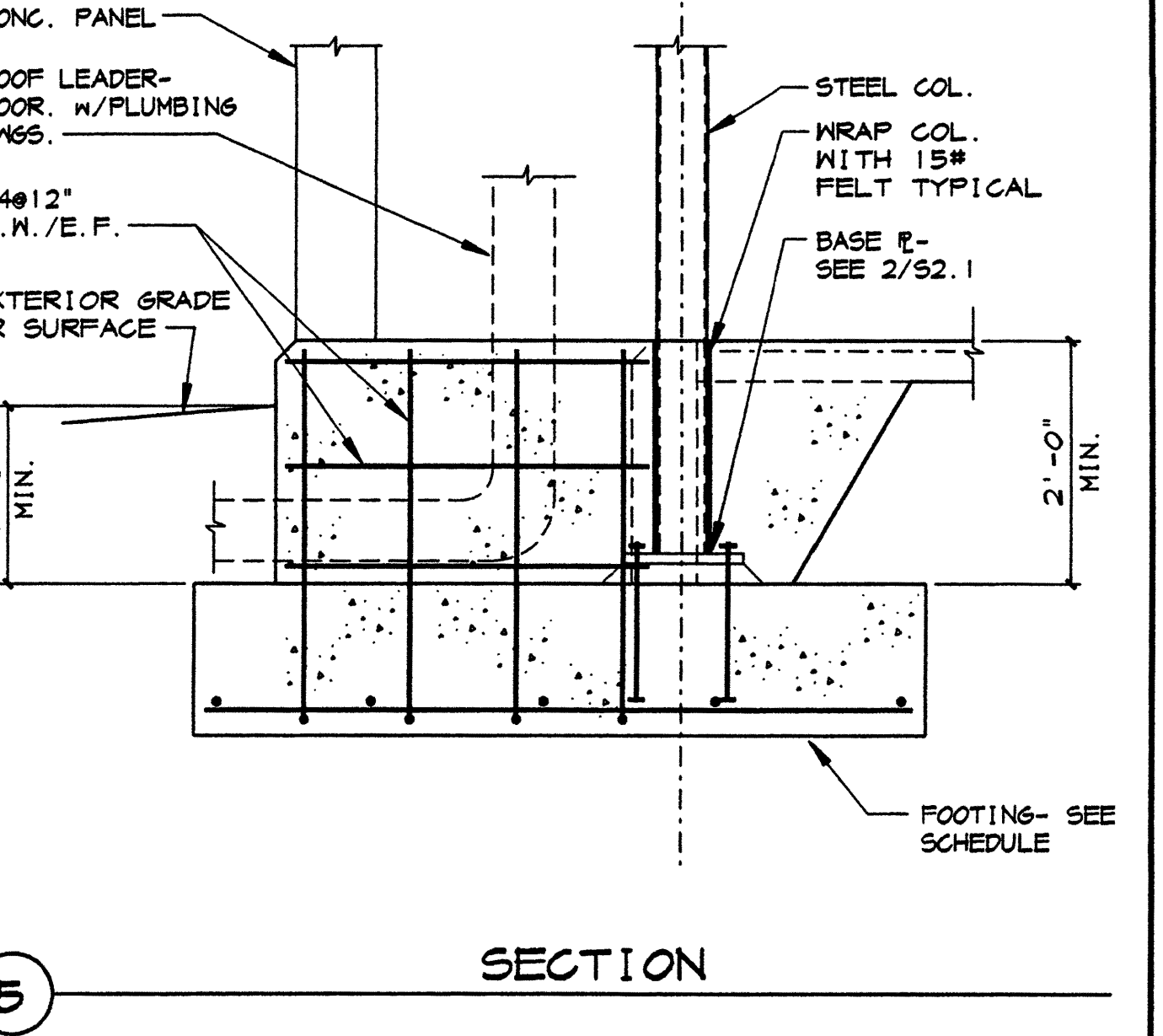
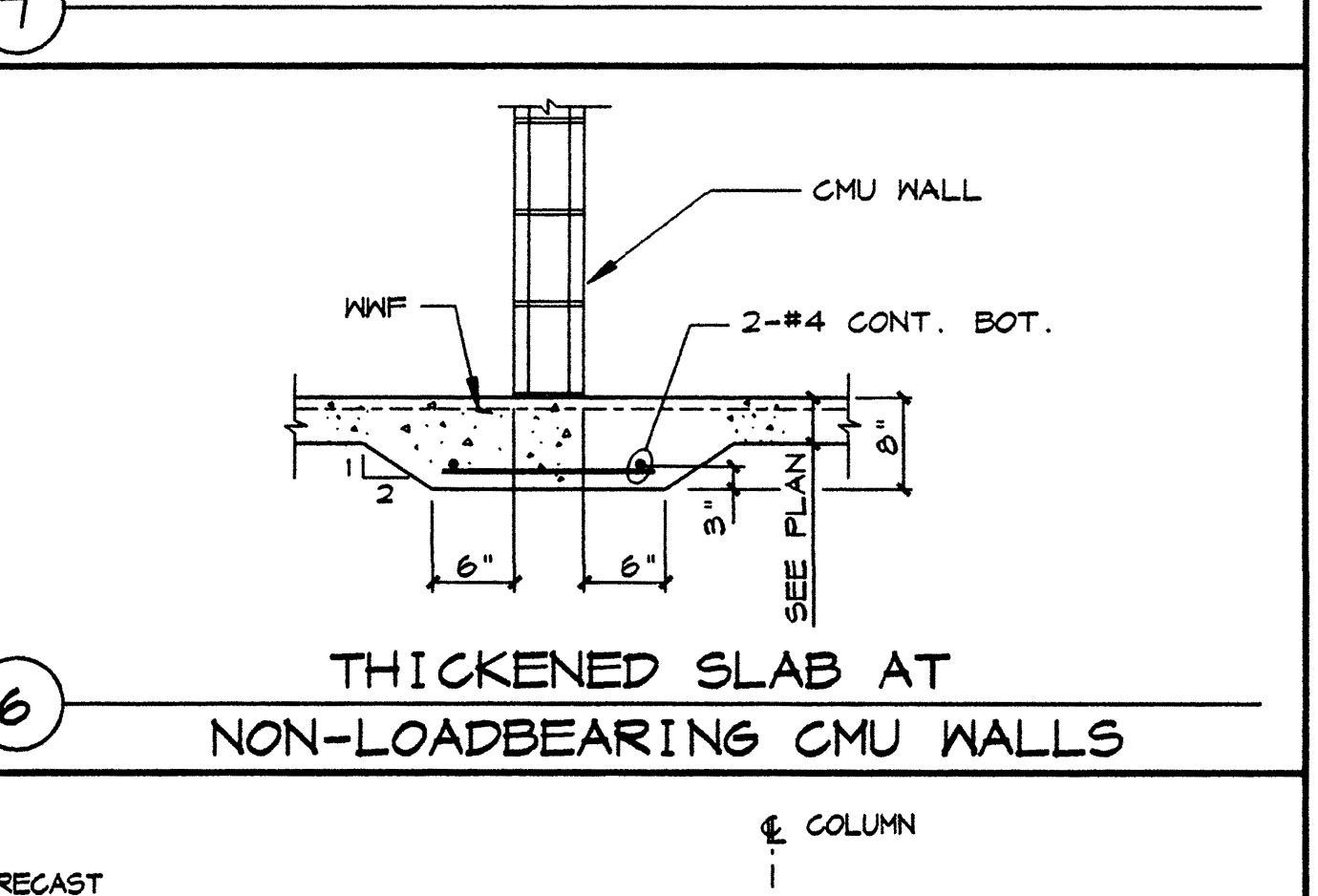
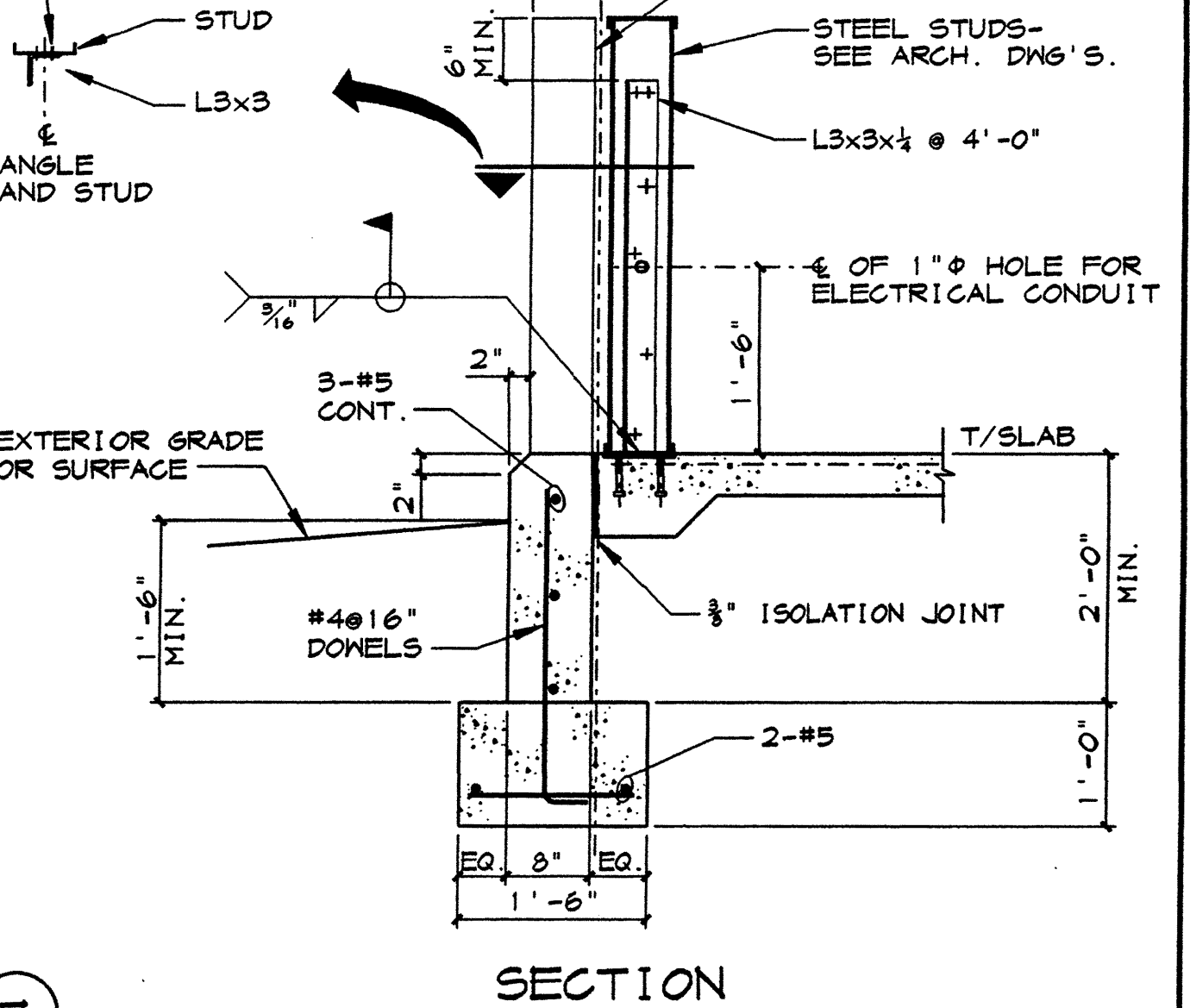
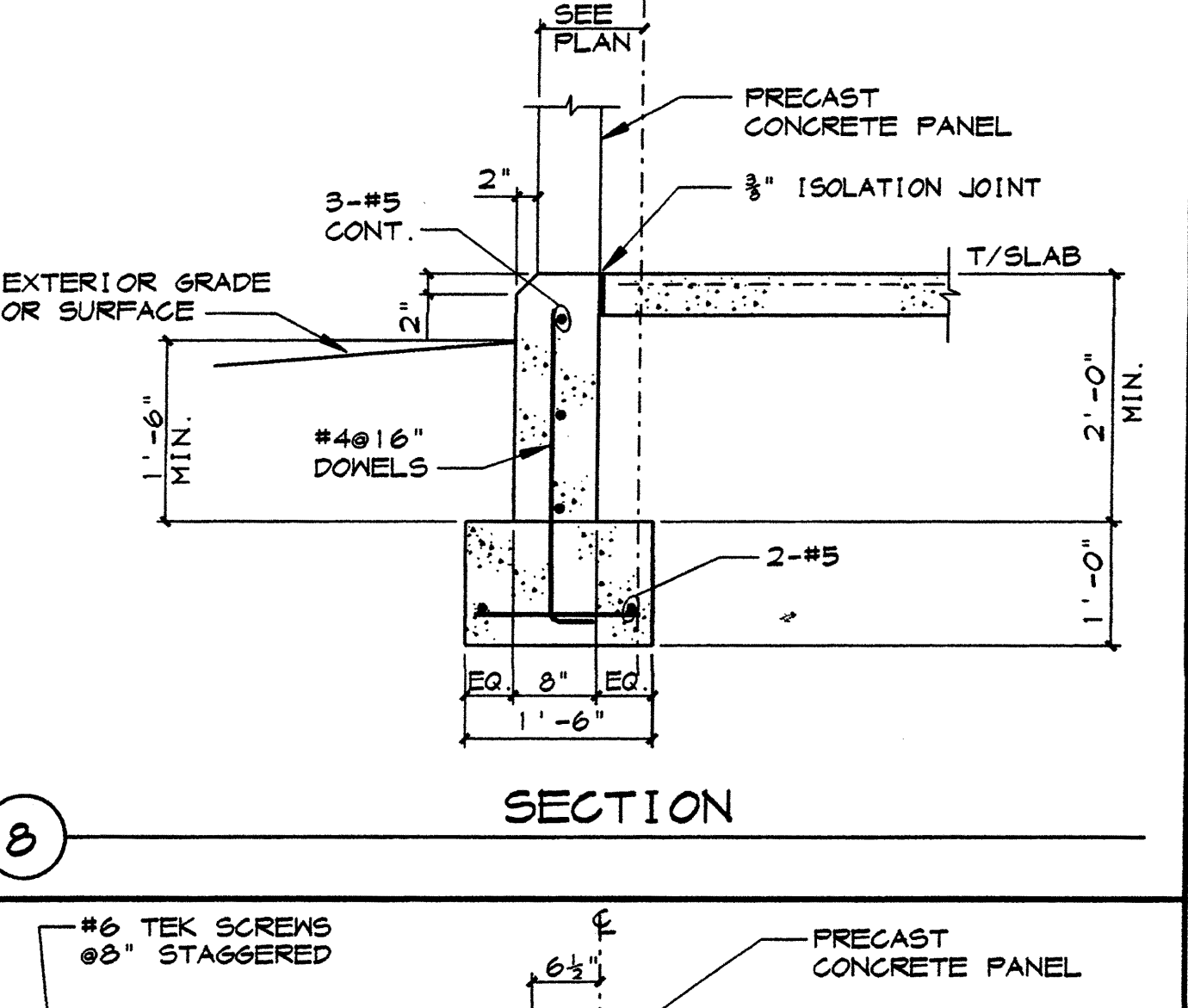
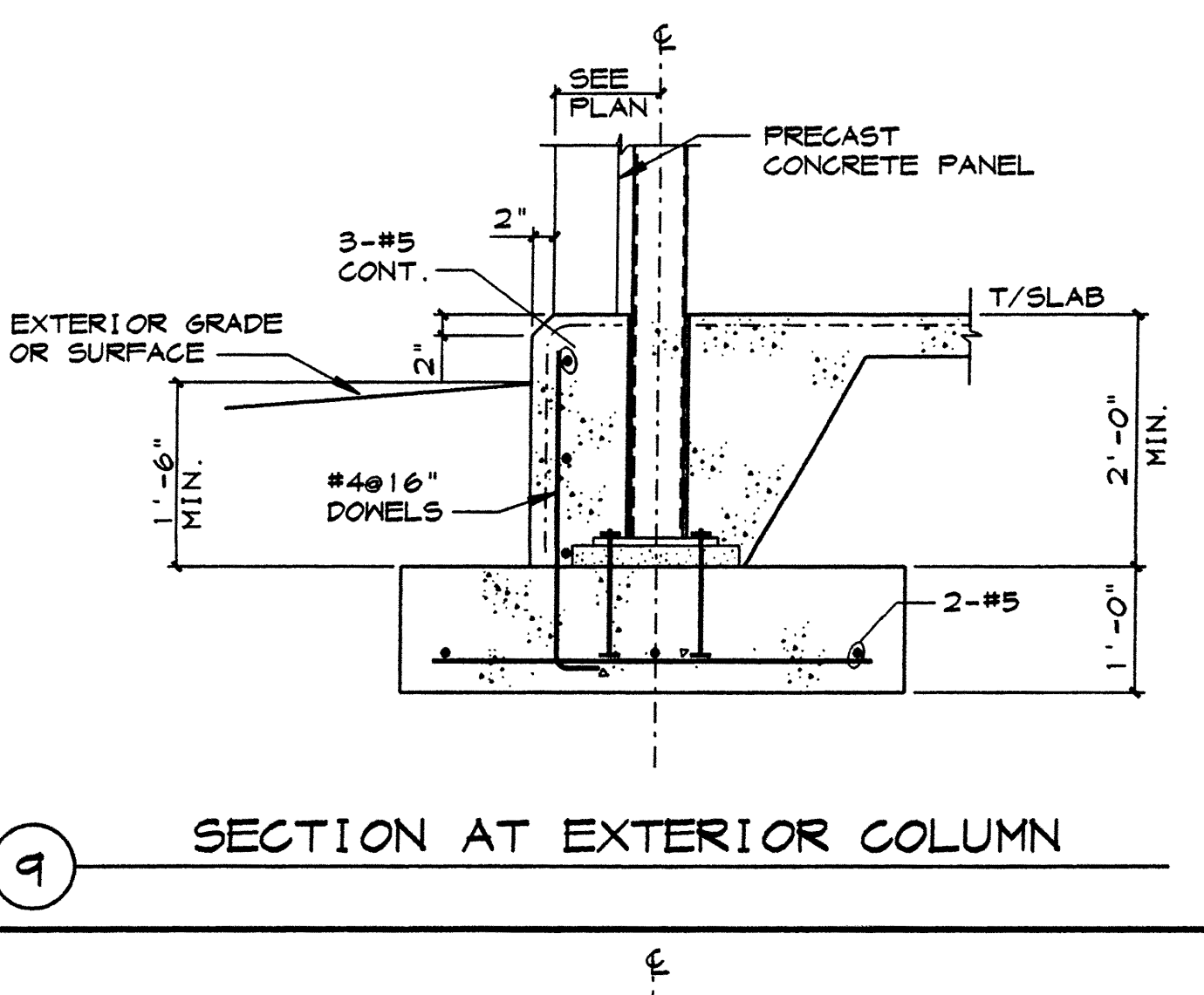
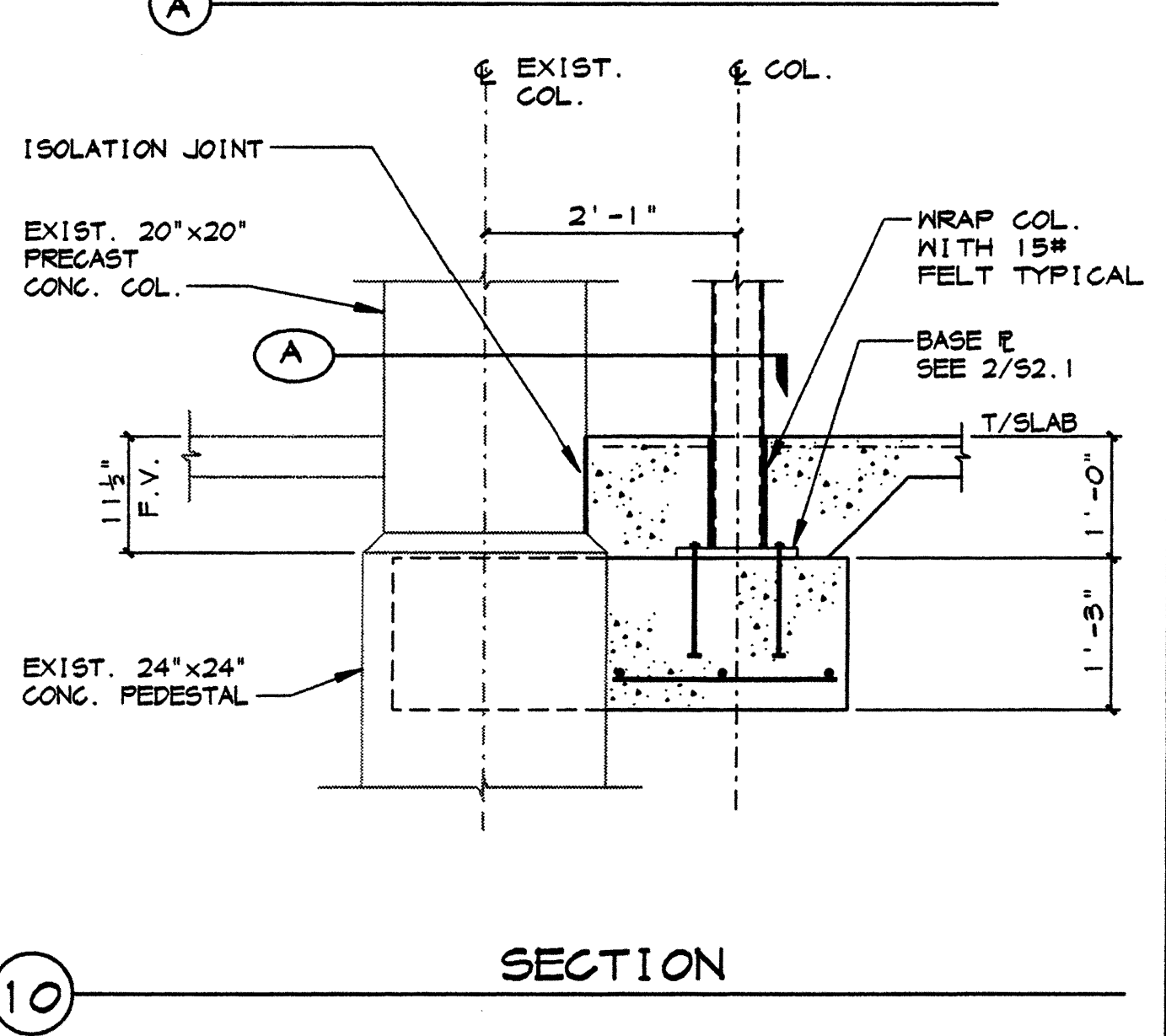
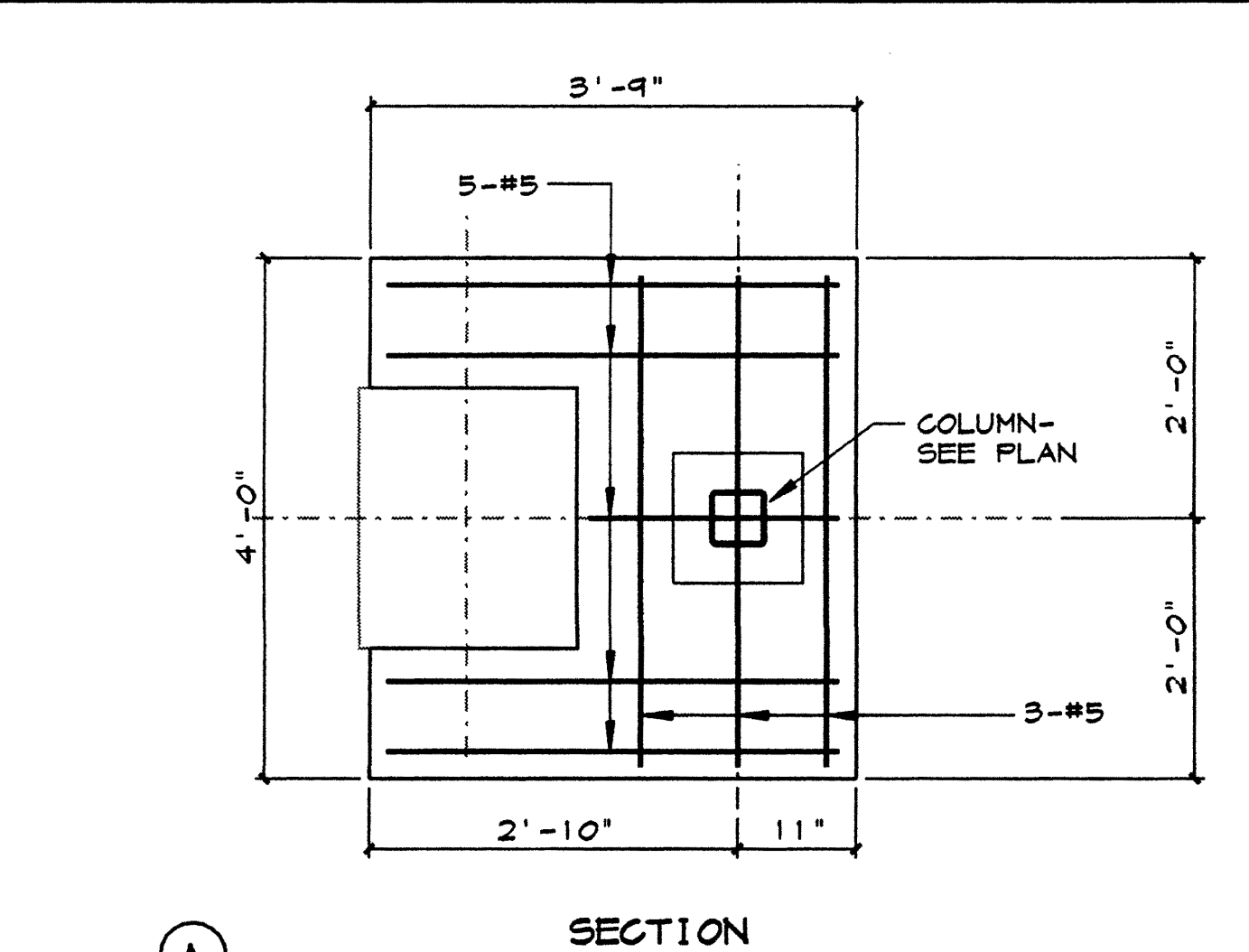
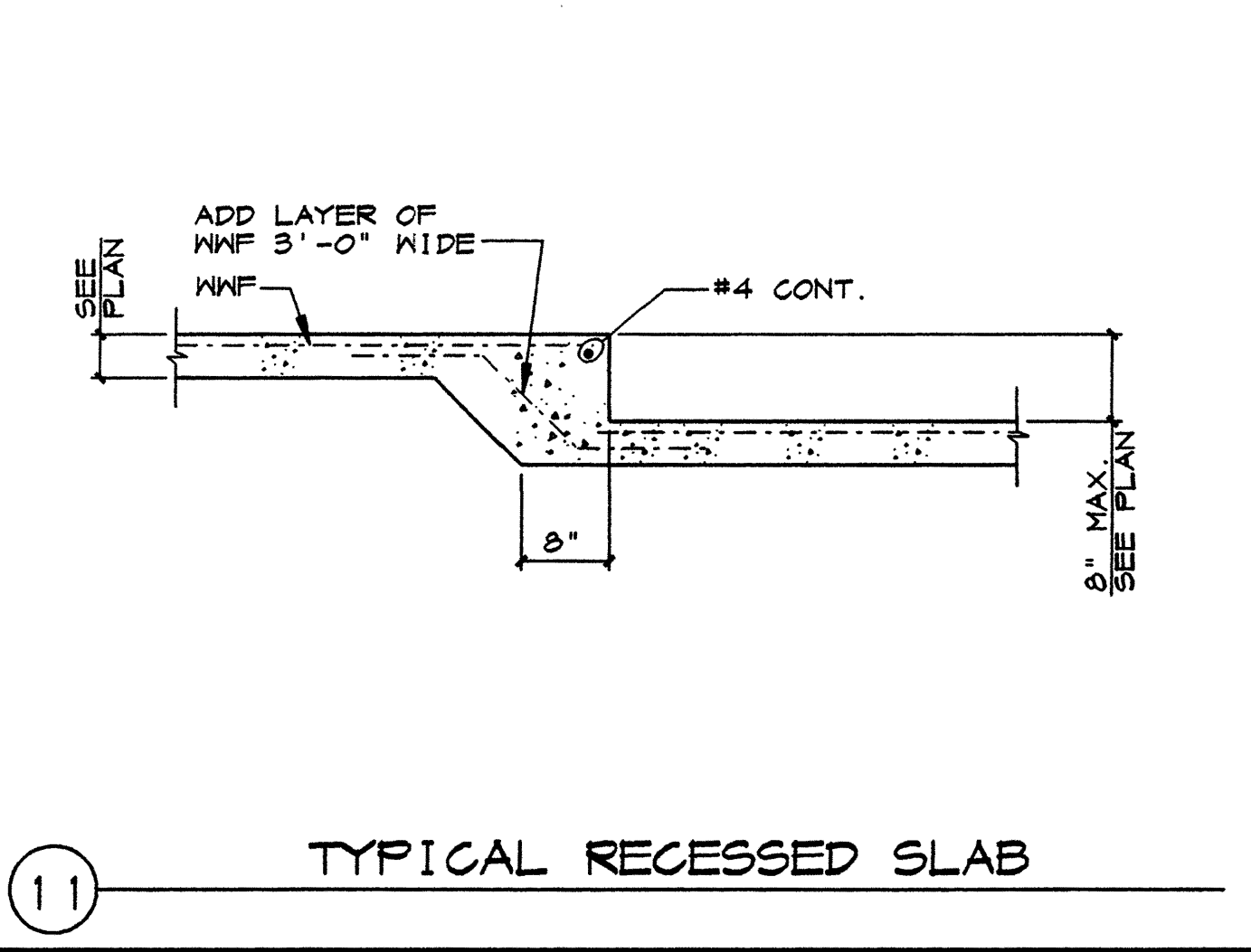
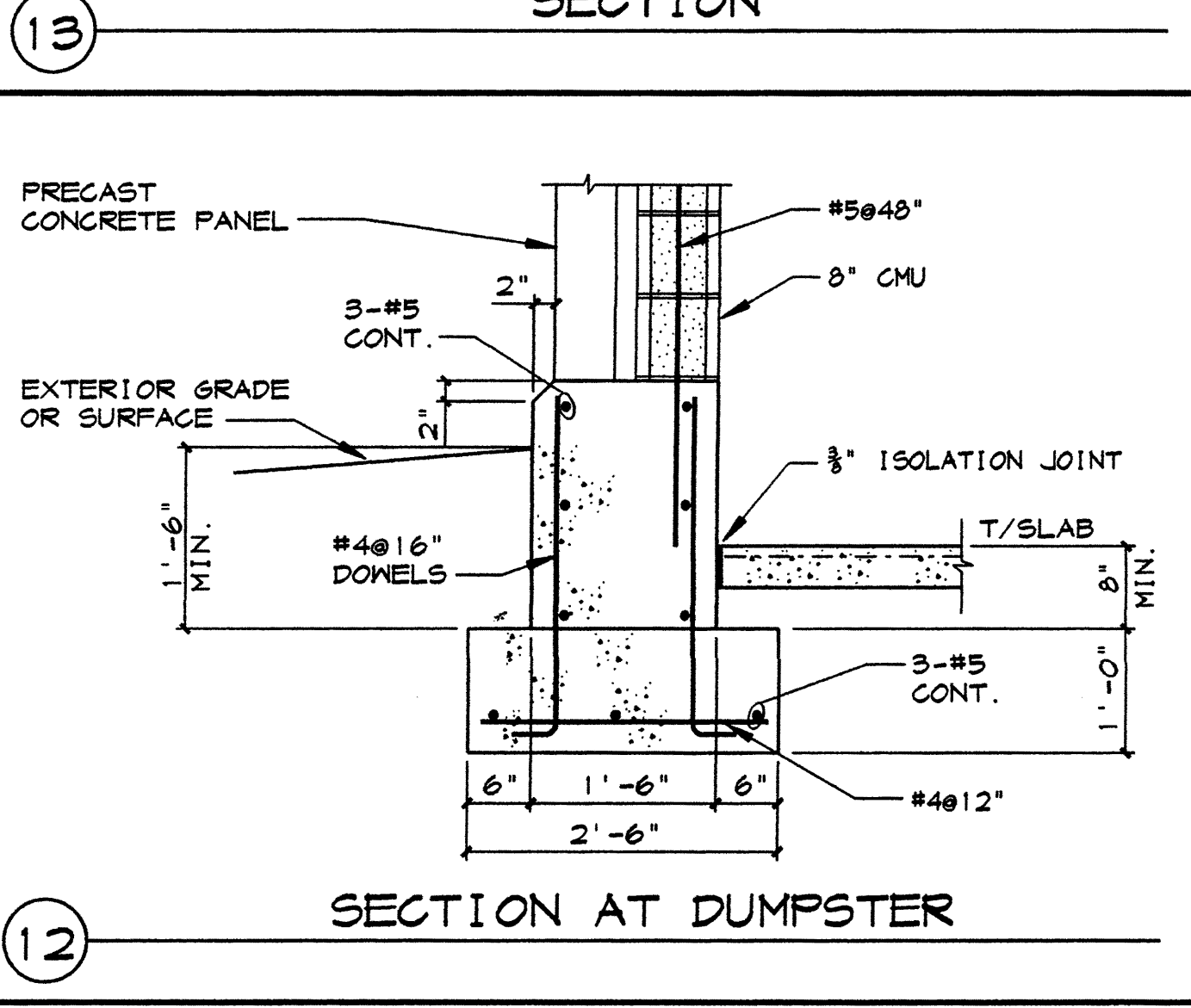
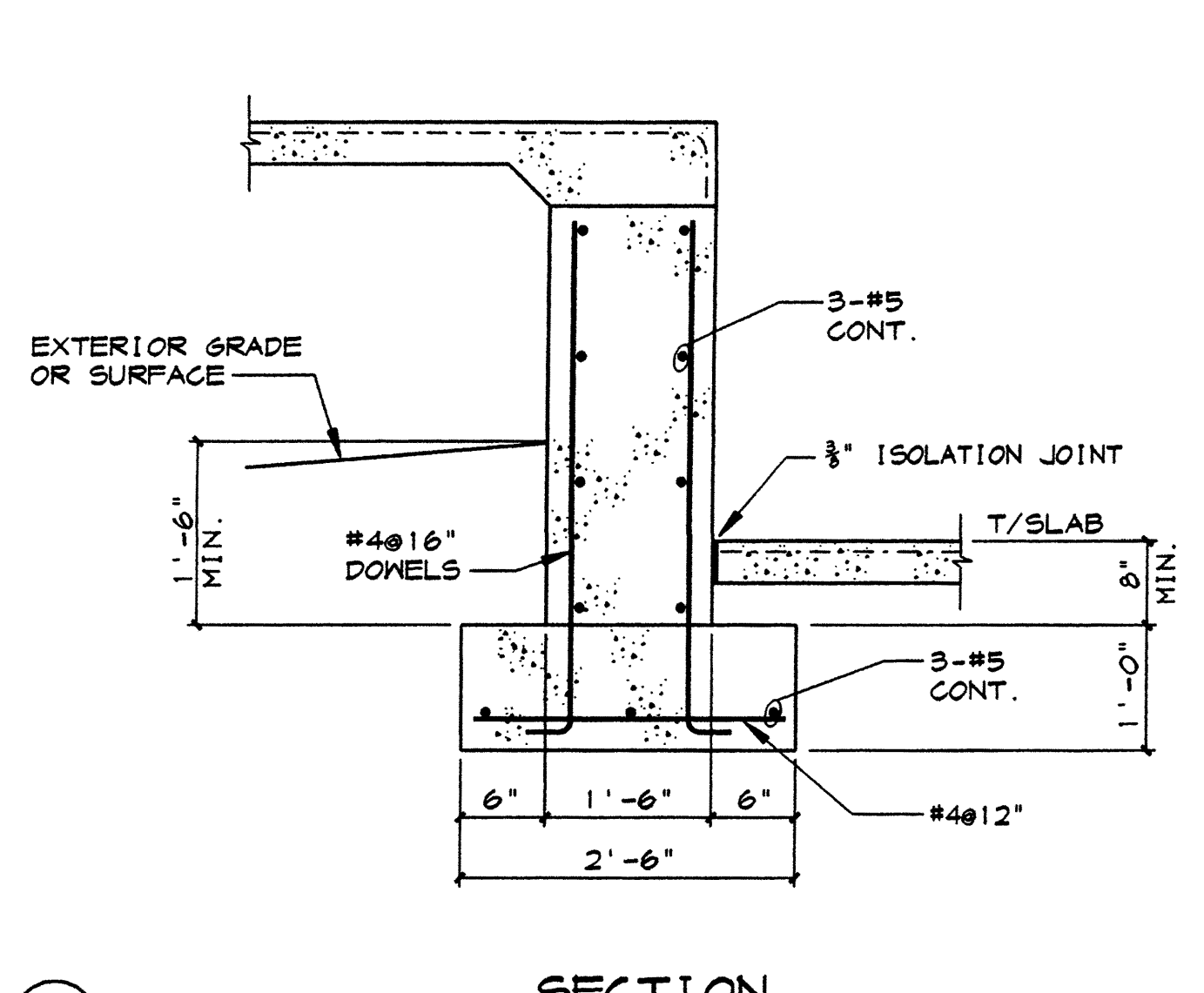
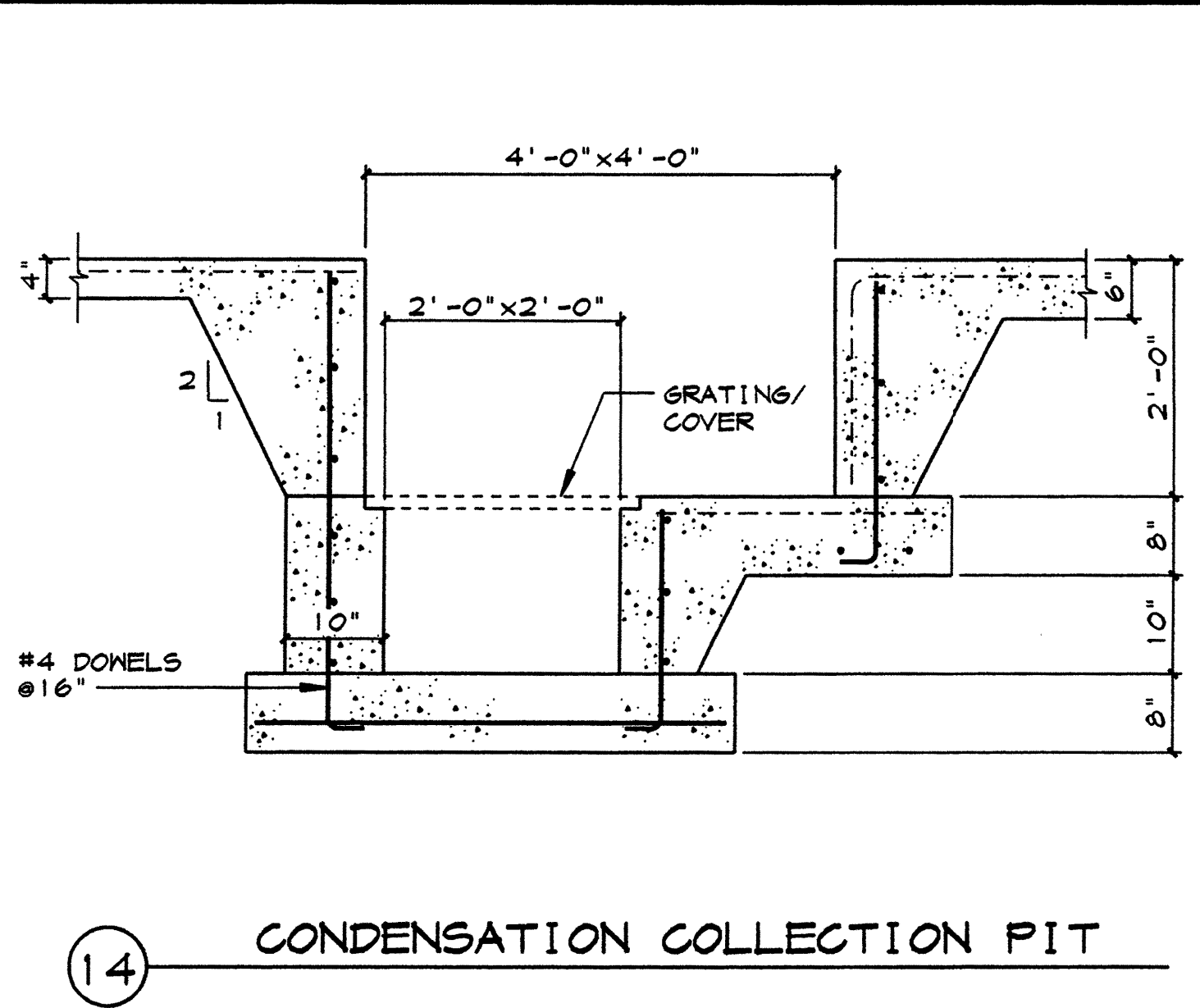
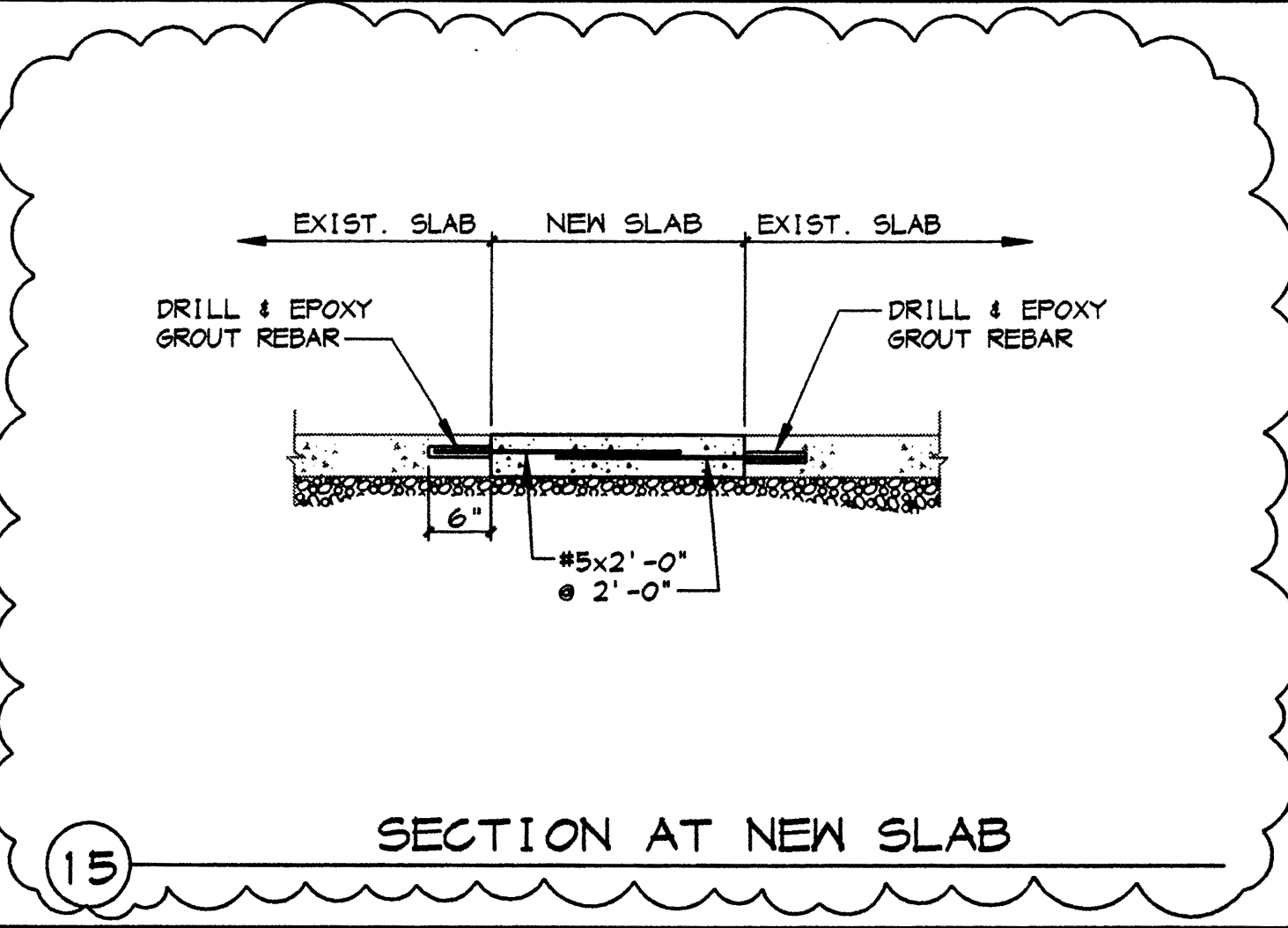
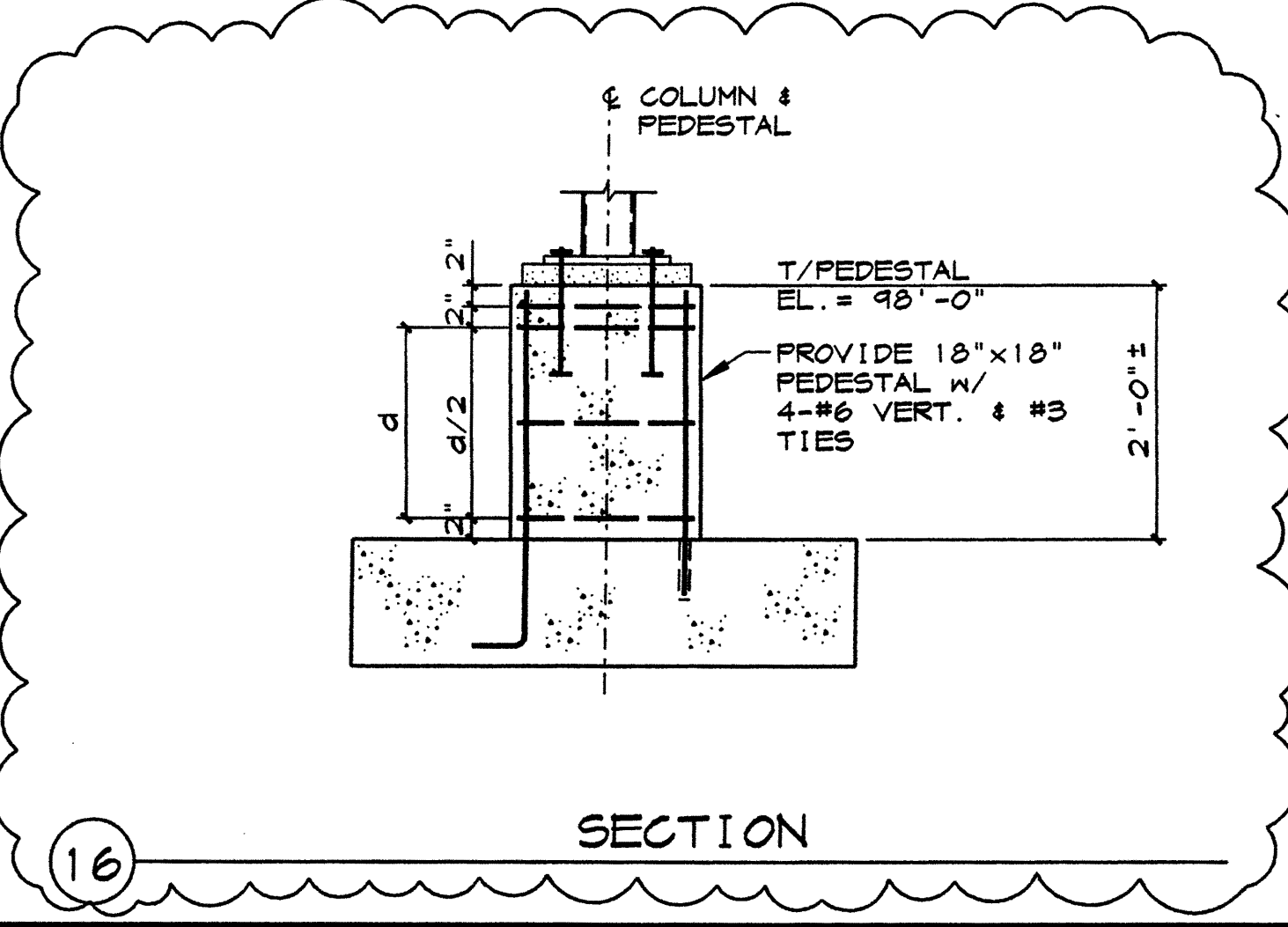
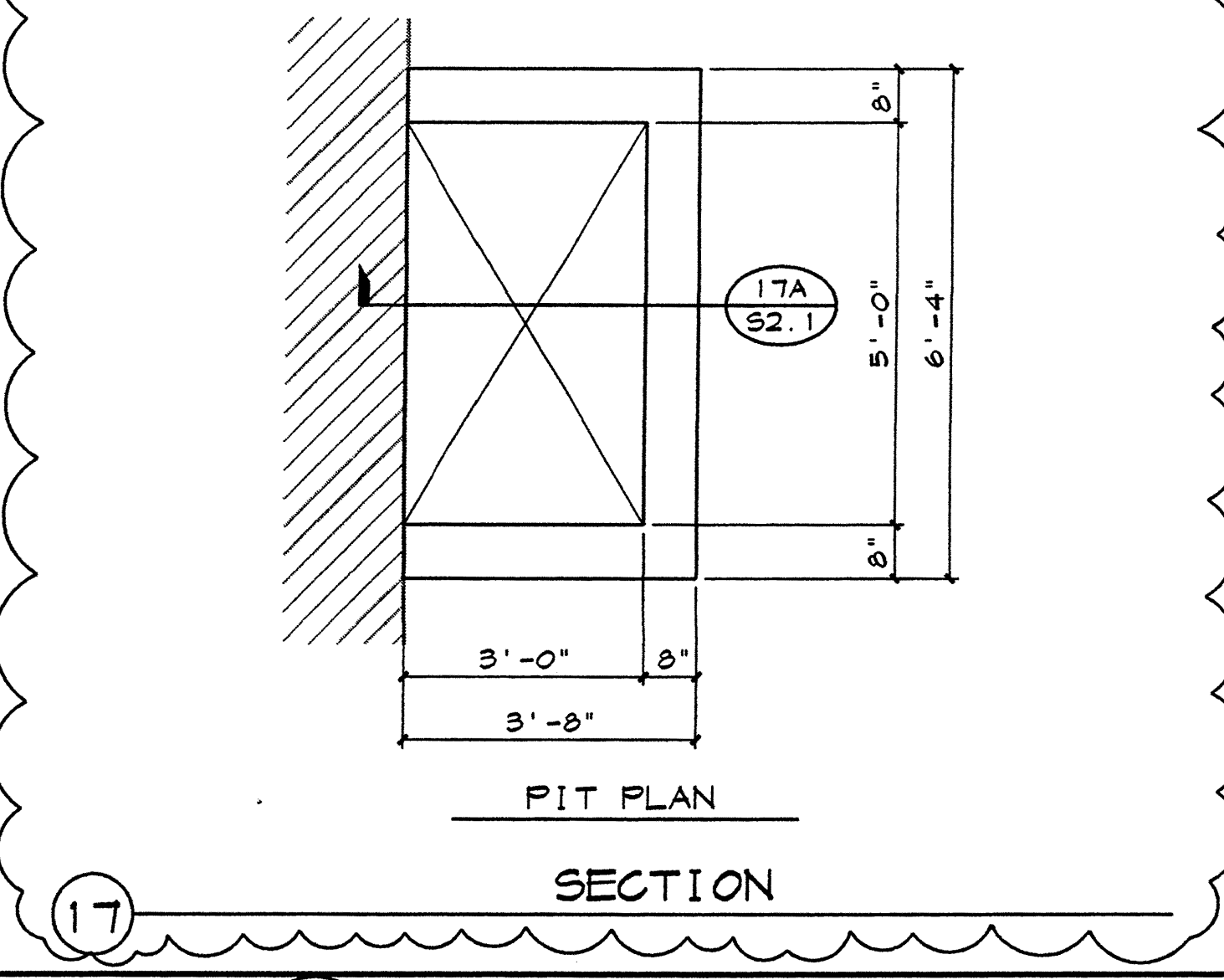
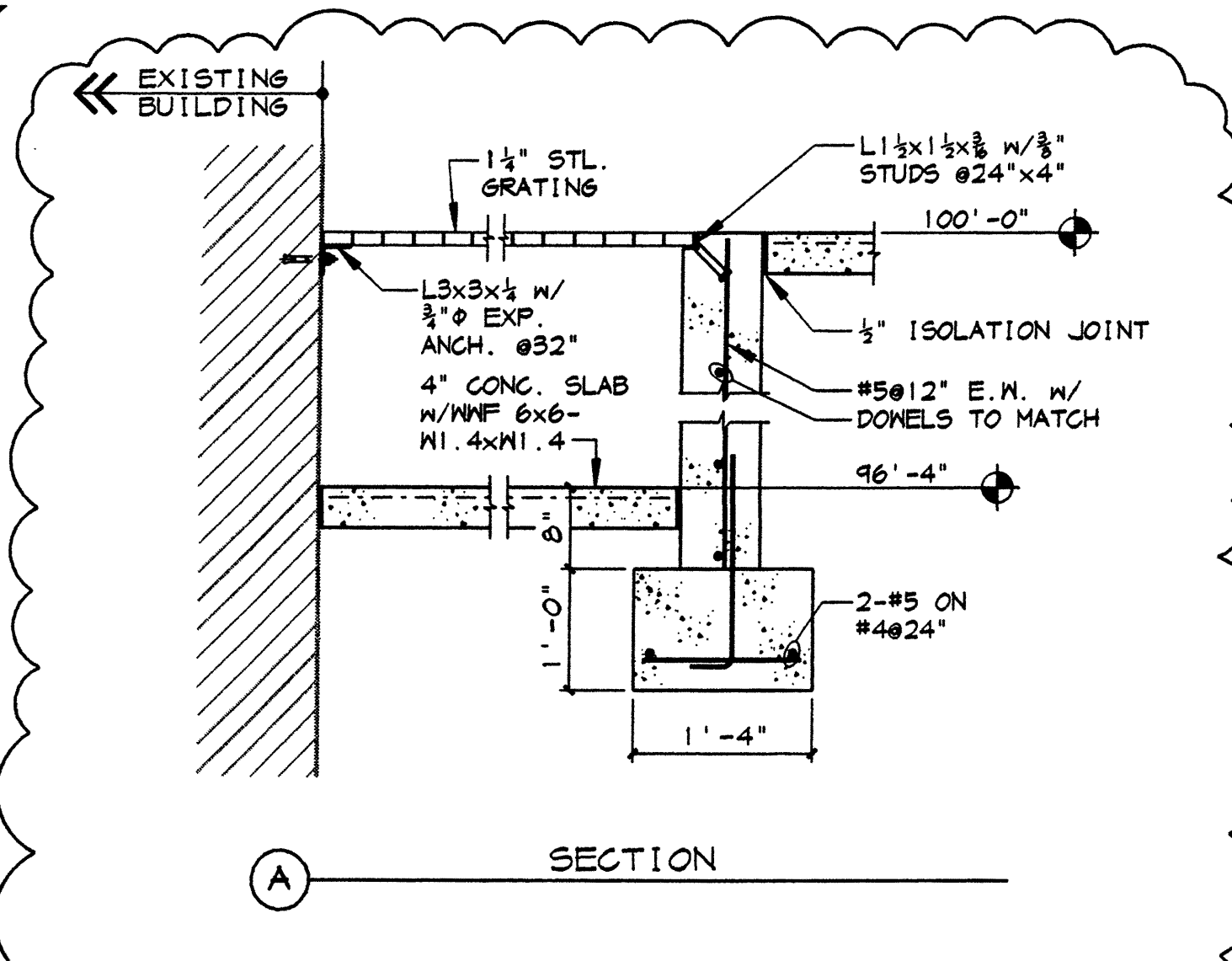
SHEET 7
 Job Document # 24825
 A-3

S1.2

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ROOF FRAMING
 PLAN

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 Nashville, Tennessee 37228
 P: 615.255.5507
 SOG Project No. 2001147.00



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Sherman Carter Barnhart PSC
 PARTNERS IN ARCHITECTURE

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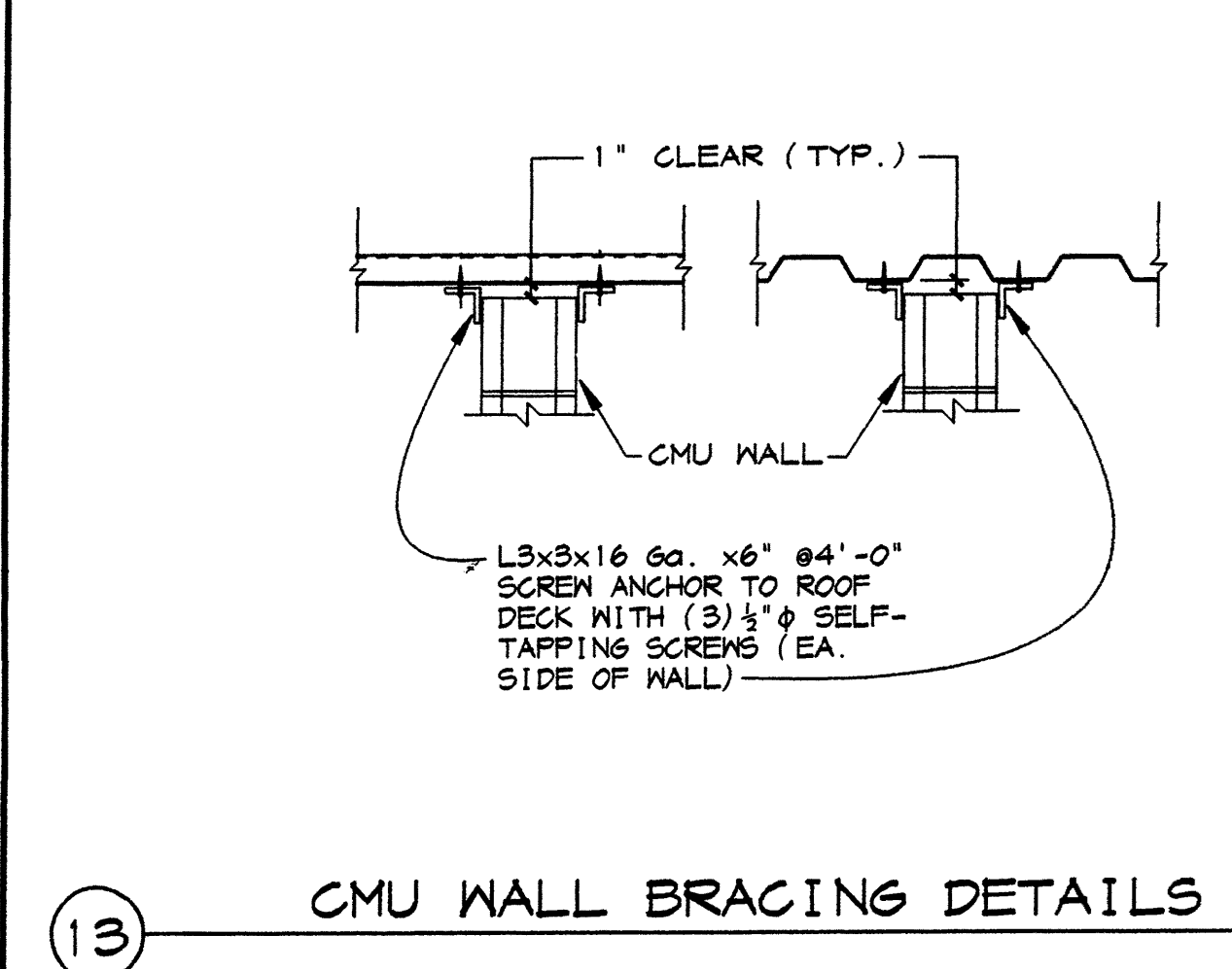
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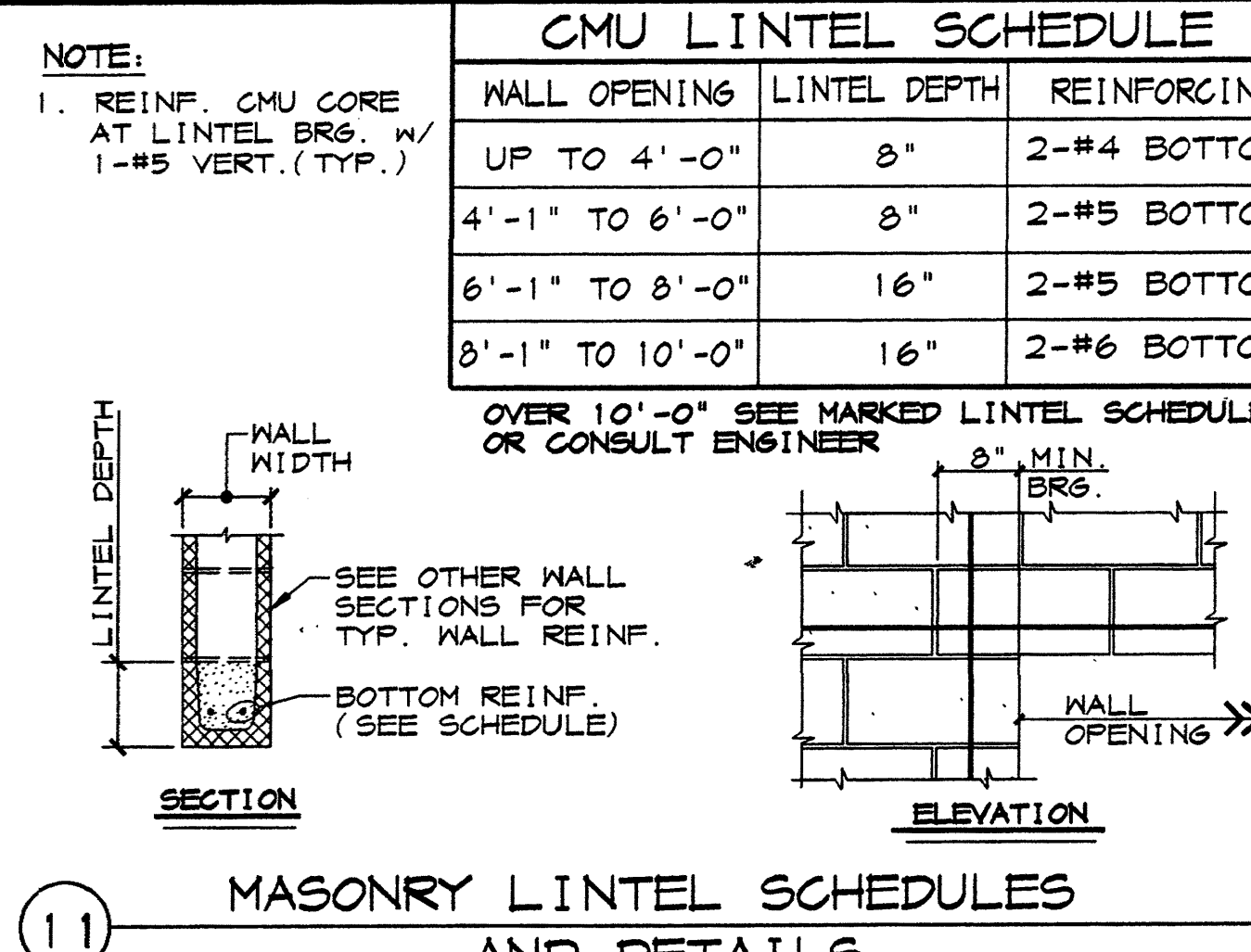


WIDTH OF OPENING "M"	STEEL LINTEL
TO 1'-0"	NONE
1'-1" TO 2'-6"	L5x3x1/2 (LLV) ONE SIDE ONLY
2'-7" TO 3'-6"	L5x3x1/2 (LLV) BOTH SIDES
OVER 3'-6"	CONSULT STRUCTURAL ENGINEER

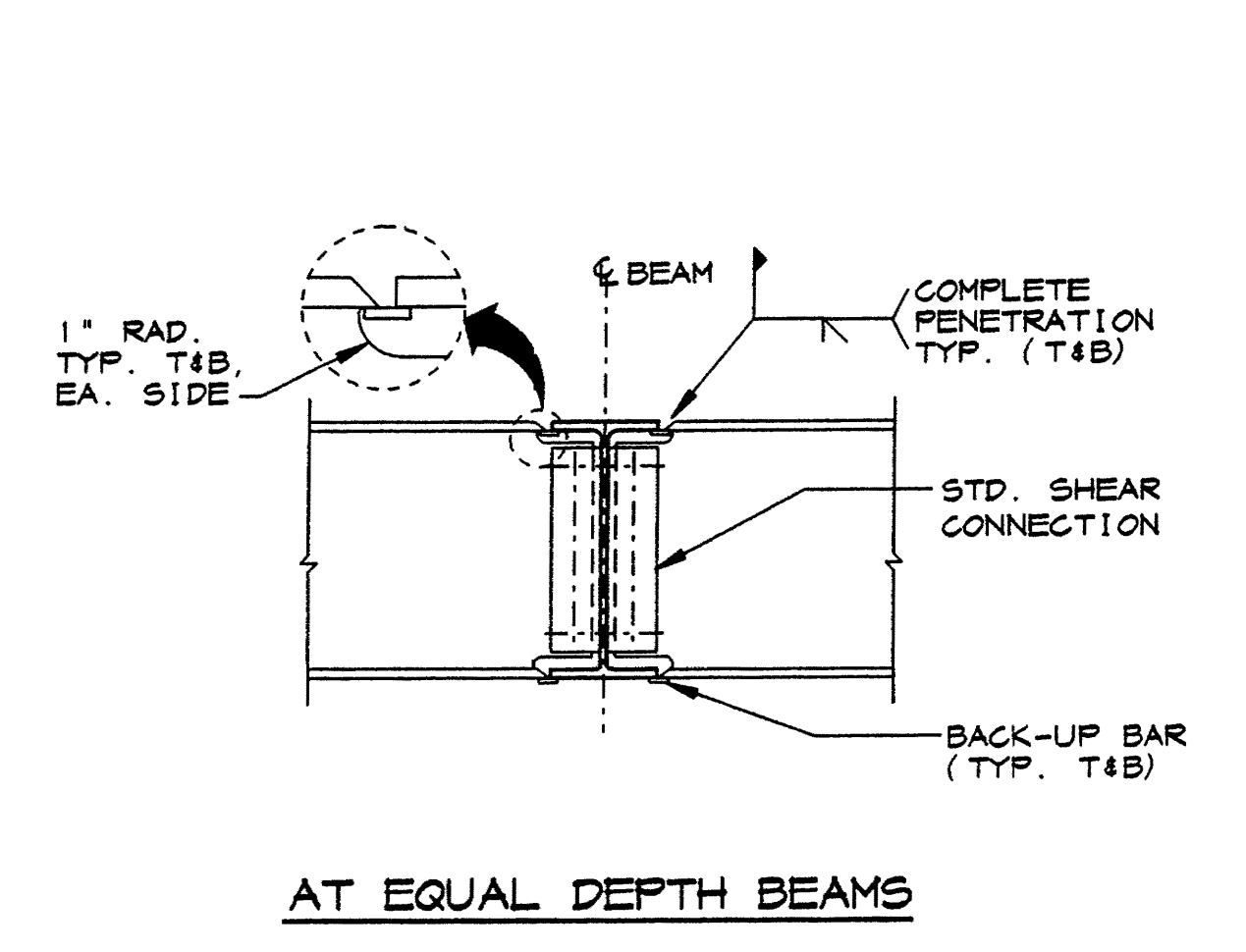
12 TYP. LINTEL DETAIL FOR OPENING IN EXISTING CMU WALL



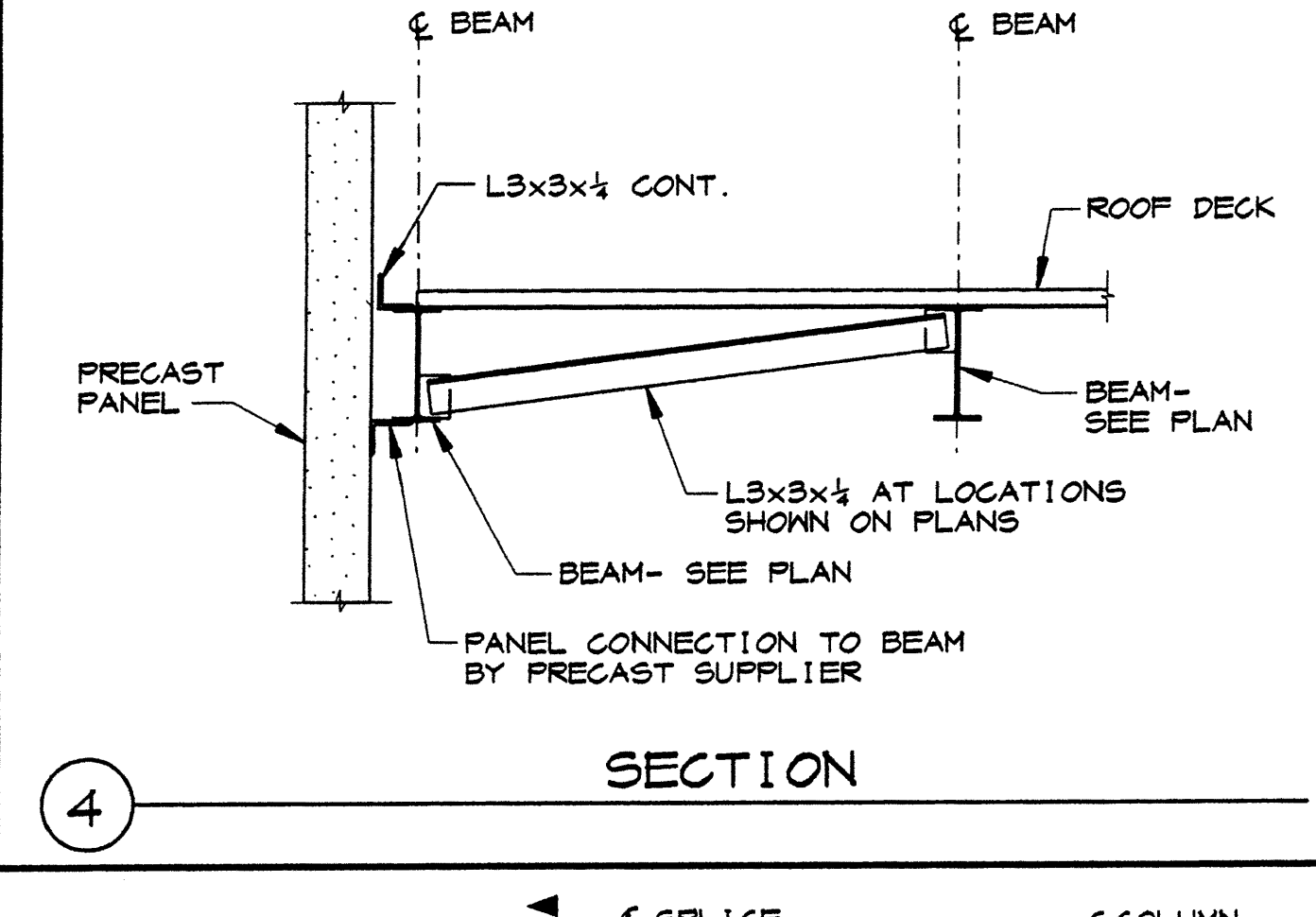
13 CMU WALL BRACING DETAILS



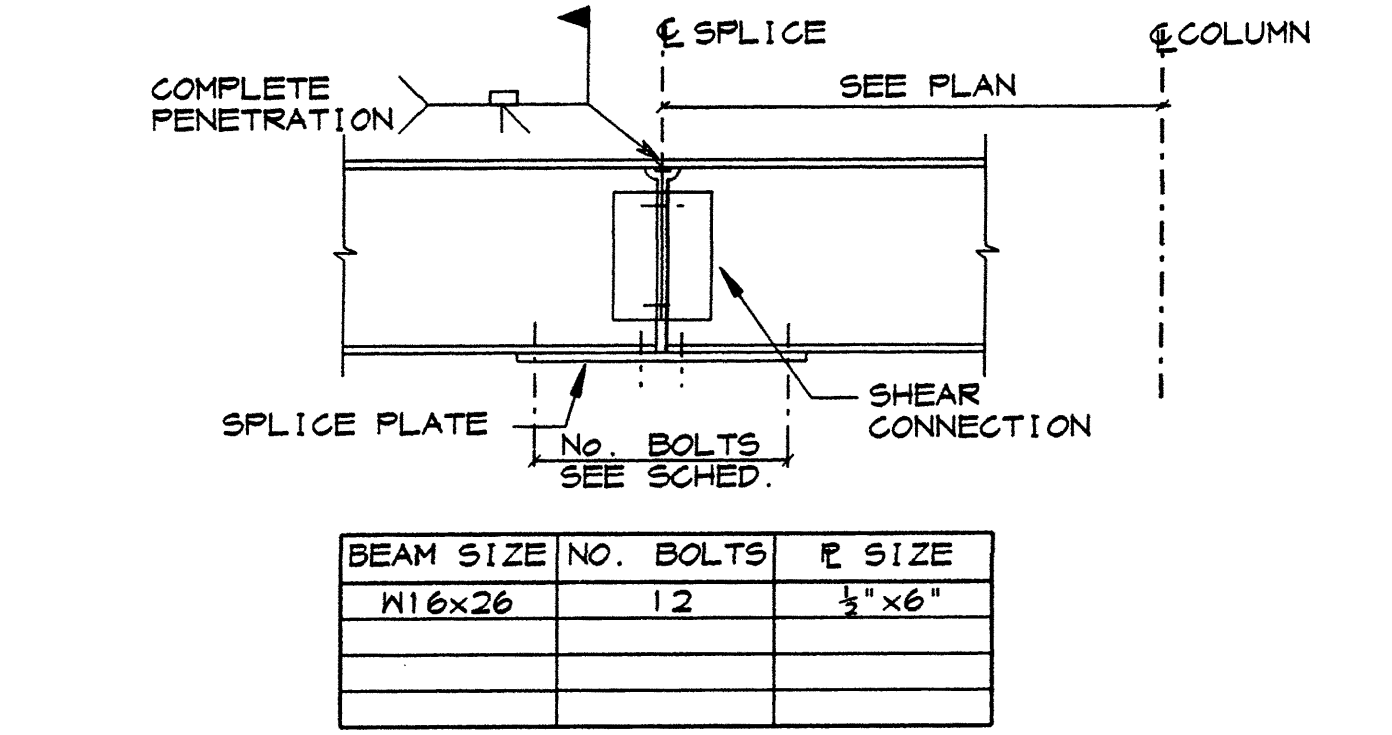
11 MASONRY LINTEL SCHEDULES AND DETAILS



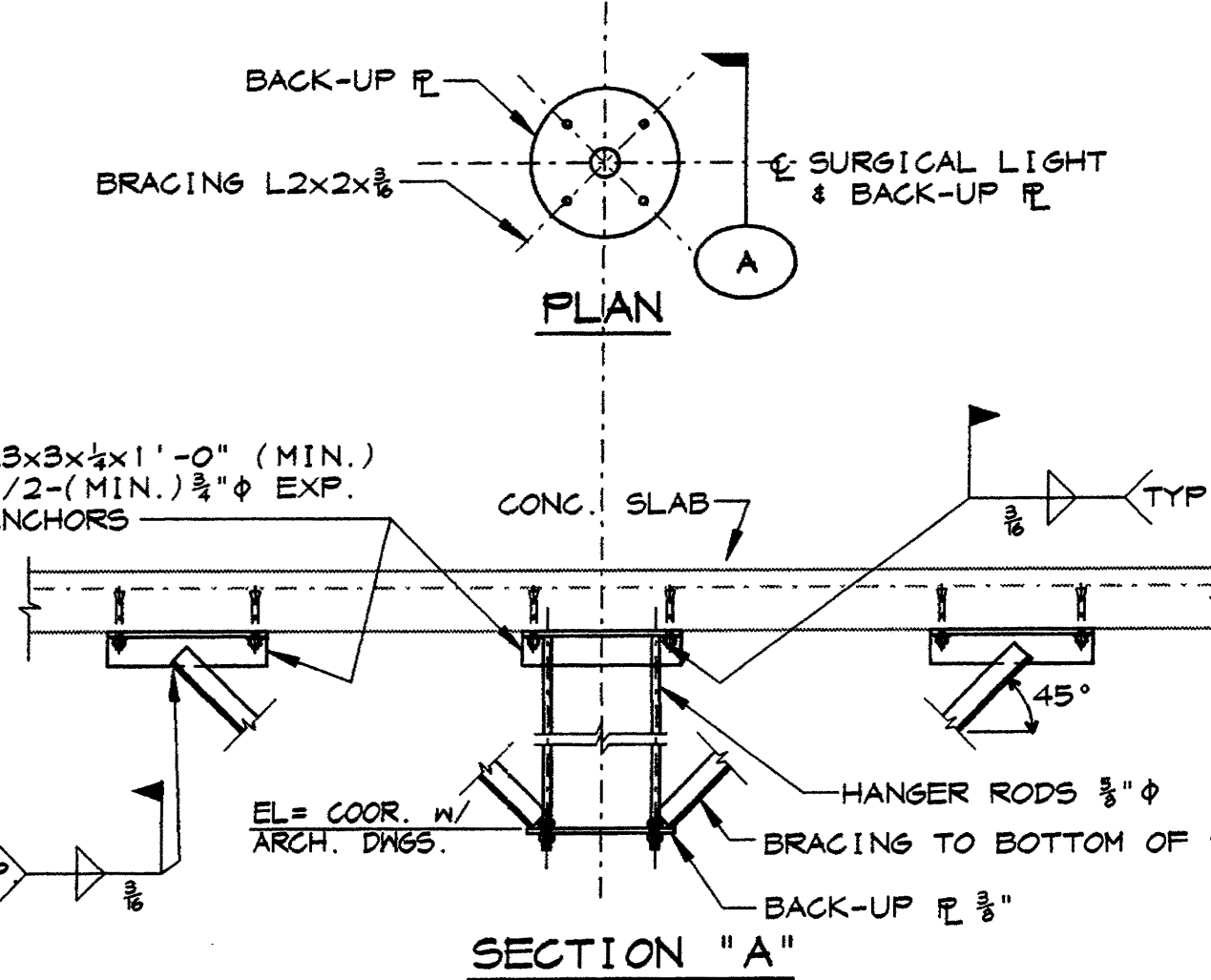
9 TYPICAL WELD THRU DETAILS



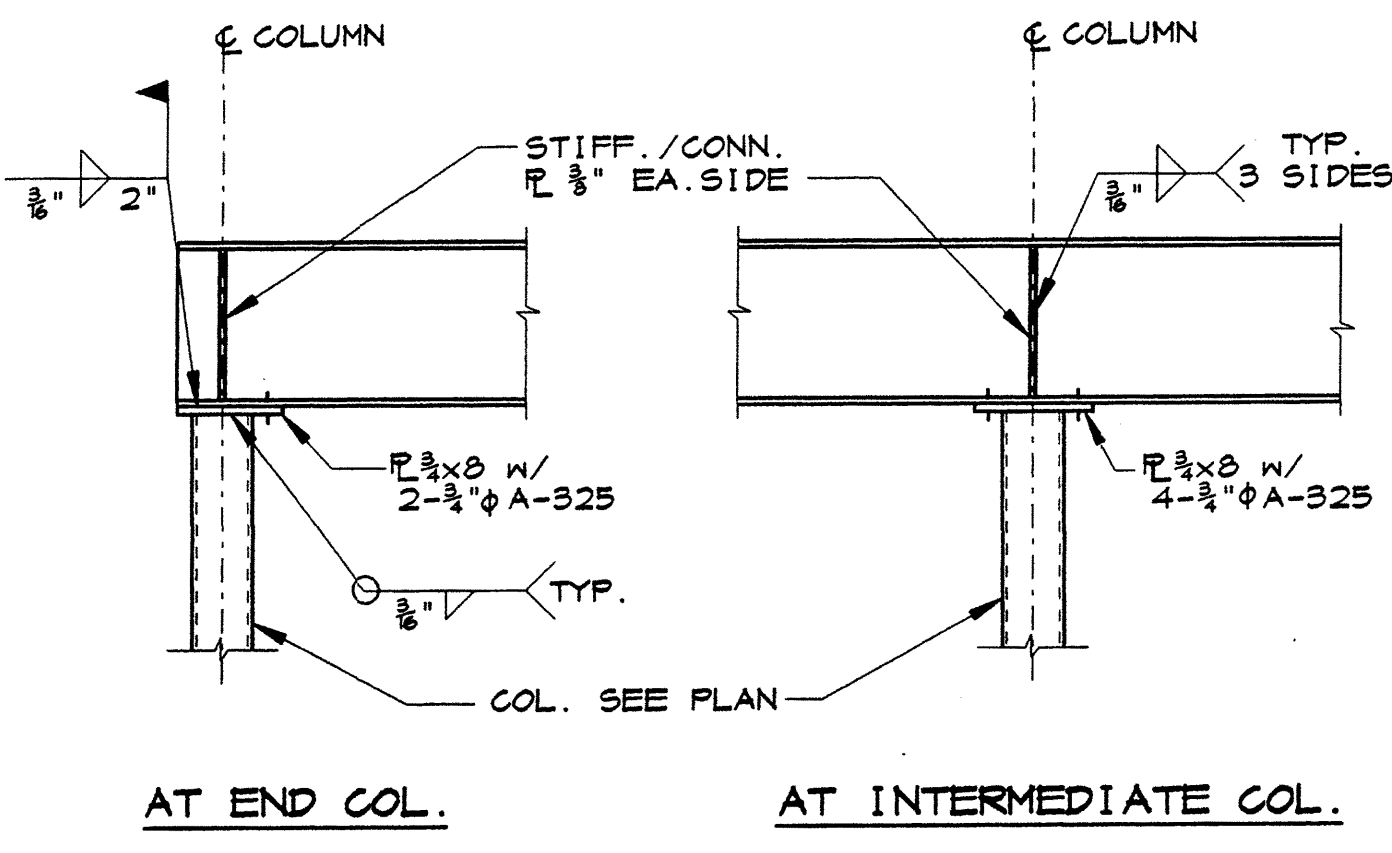
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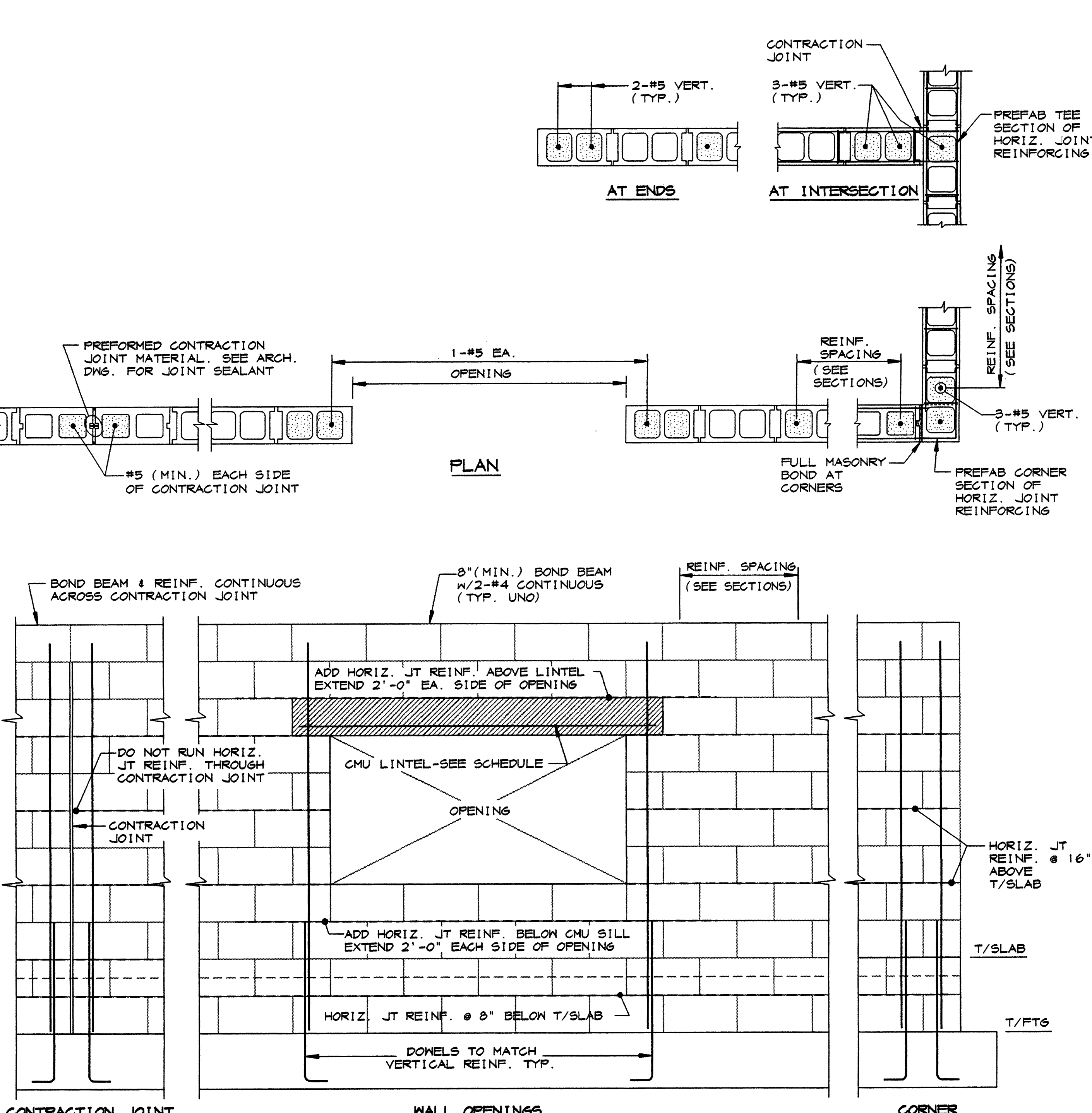
3 WELDED/BOLTED MOMENT SPLICE



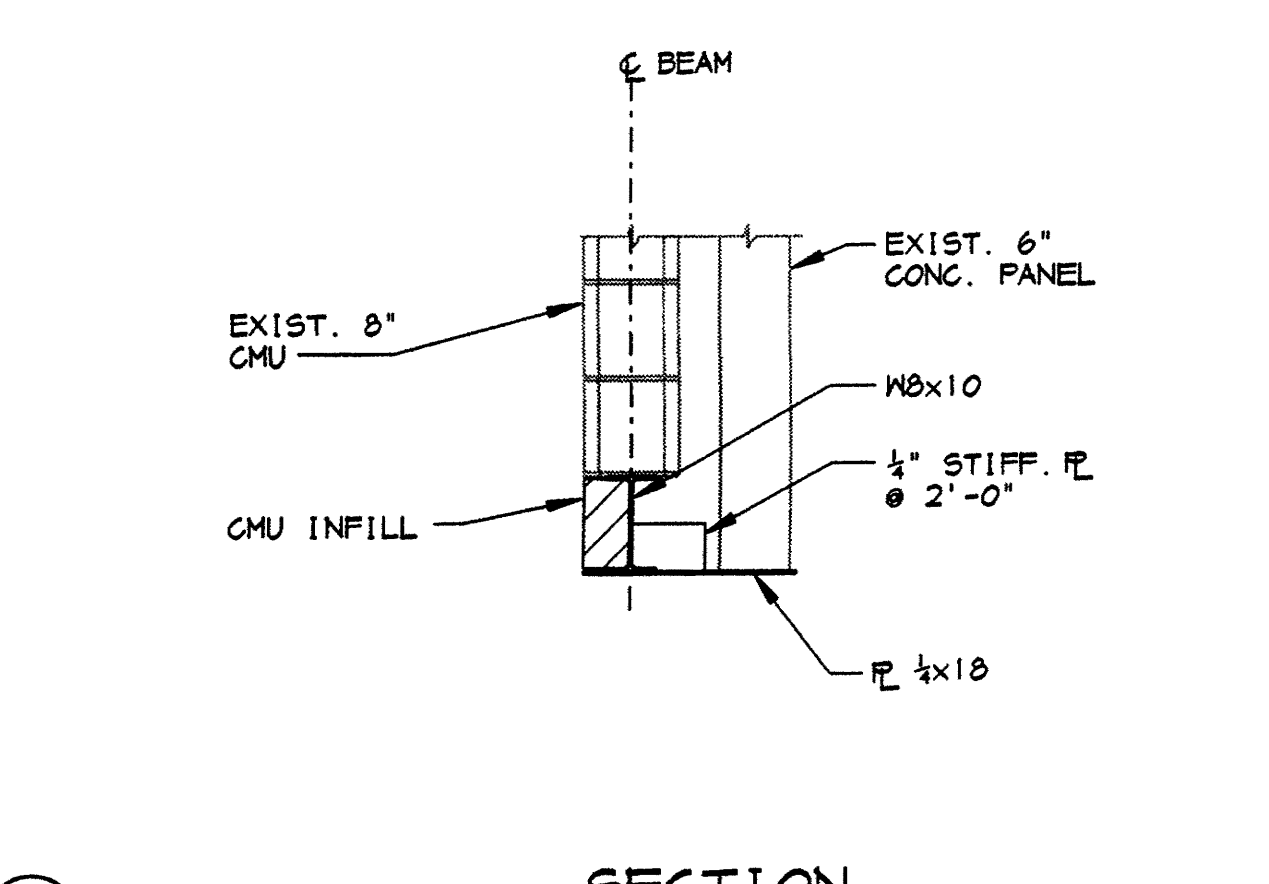
8 DETAIL AT FUTURE LIGHT SUPPORTS



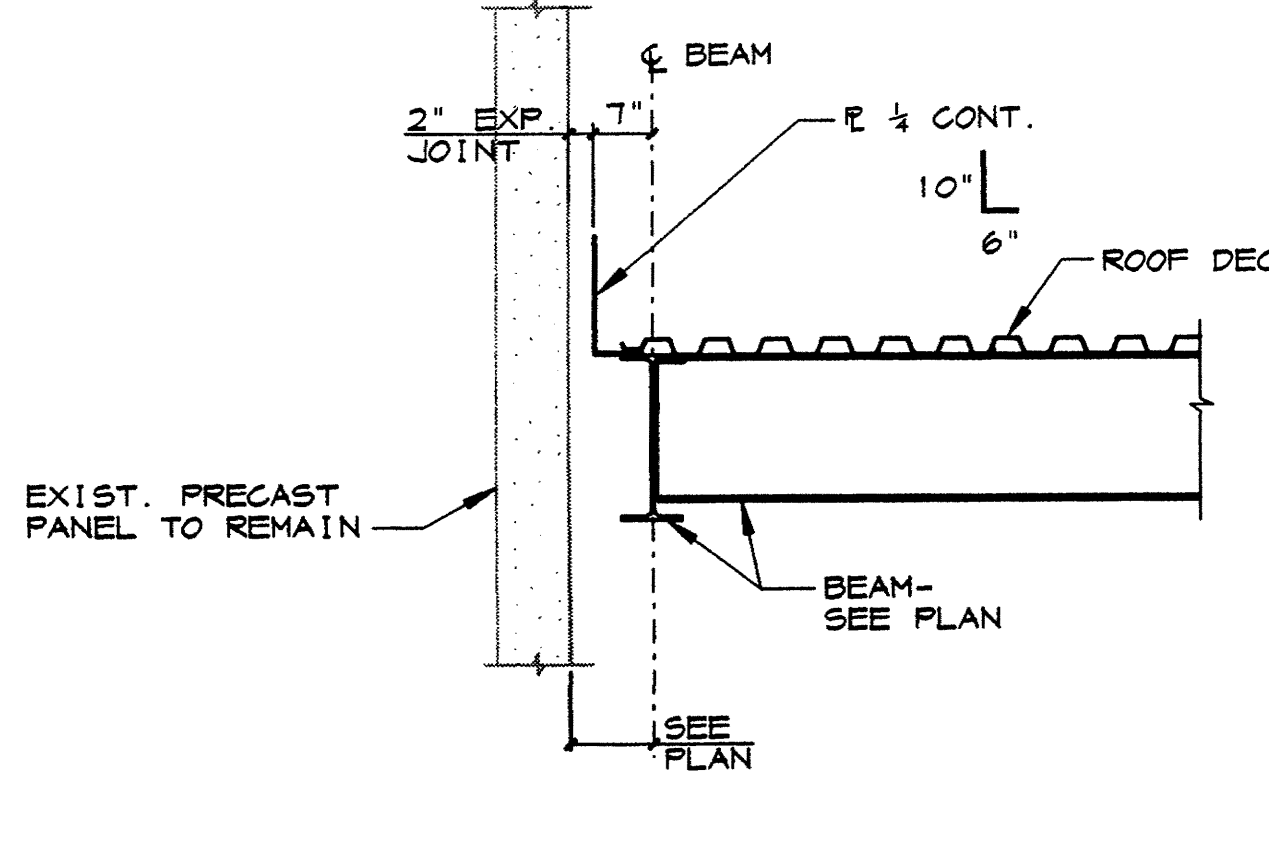
2 BEAM TO COLUMN CONNECTION FOR CONTINUOUS BEAMS



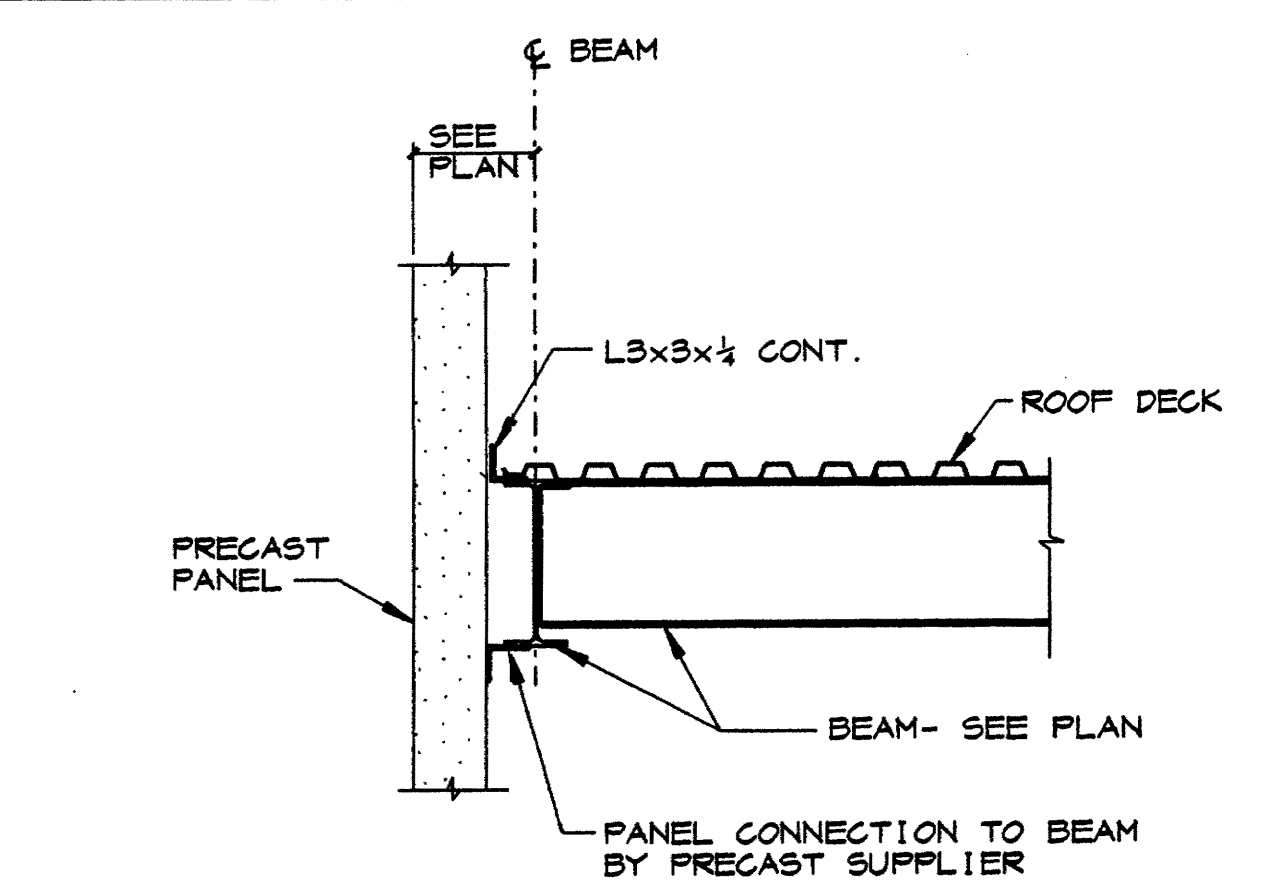
10 TYPICAL CMU WALL REINFORCING



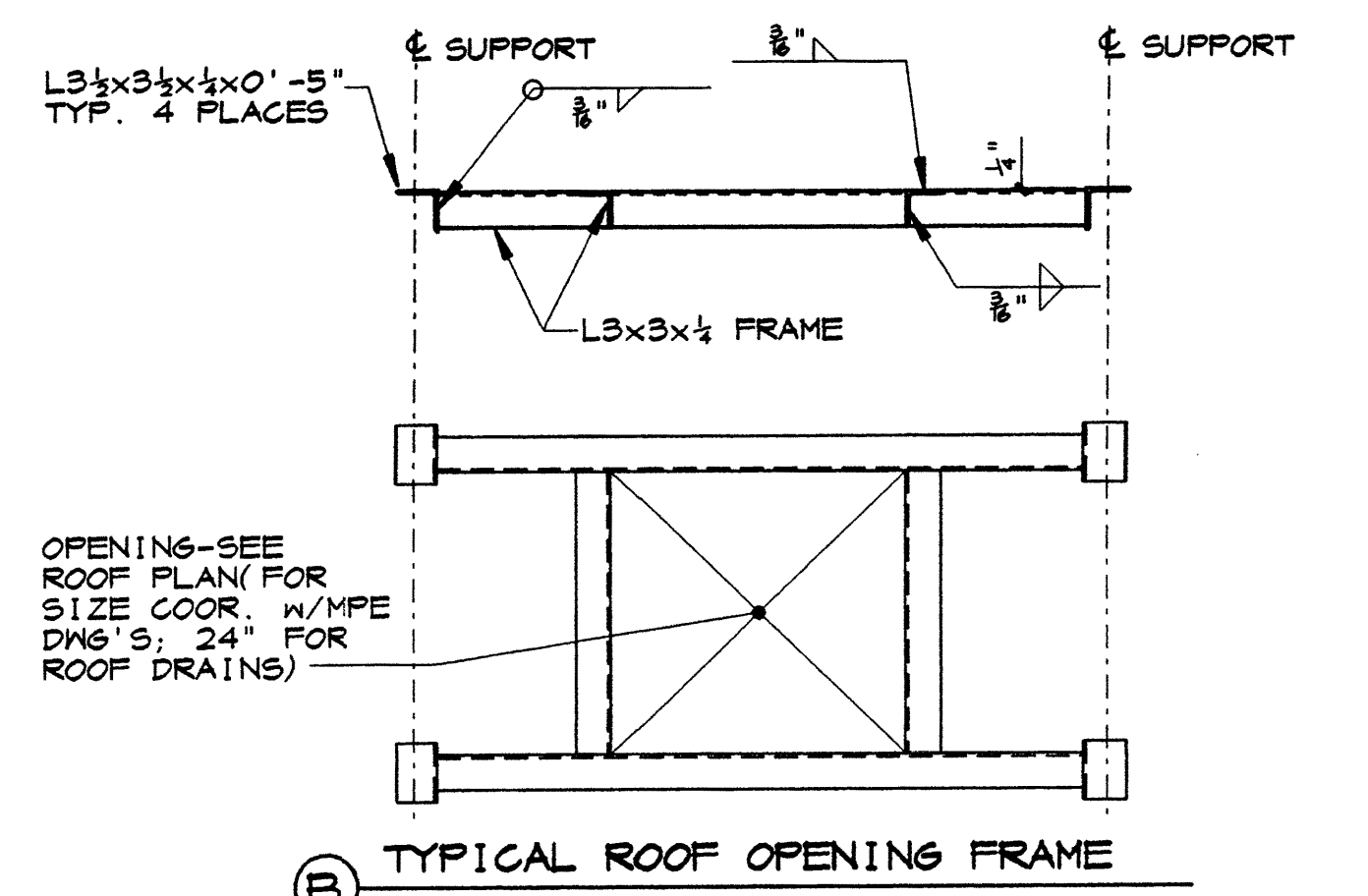
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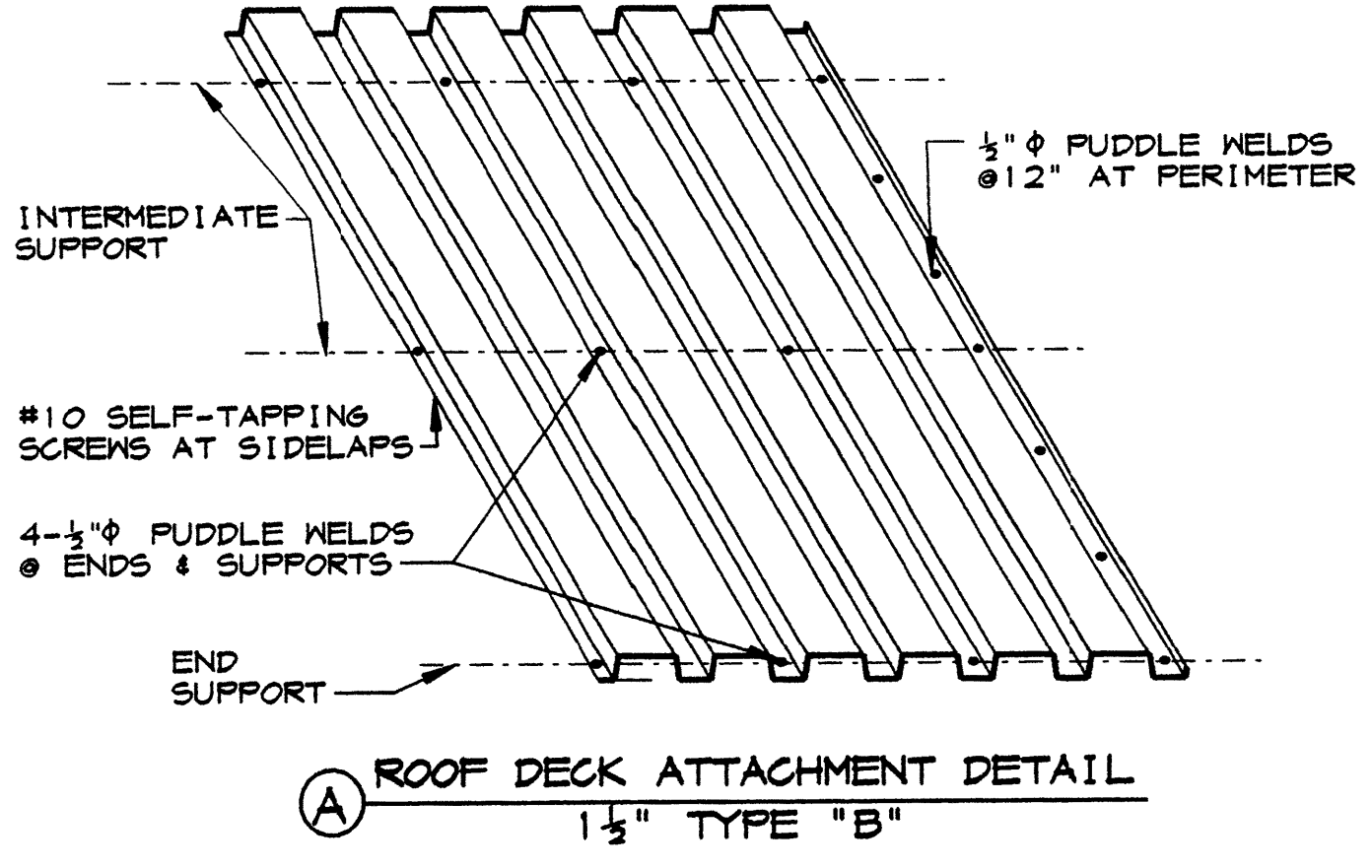
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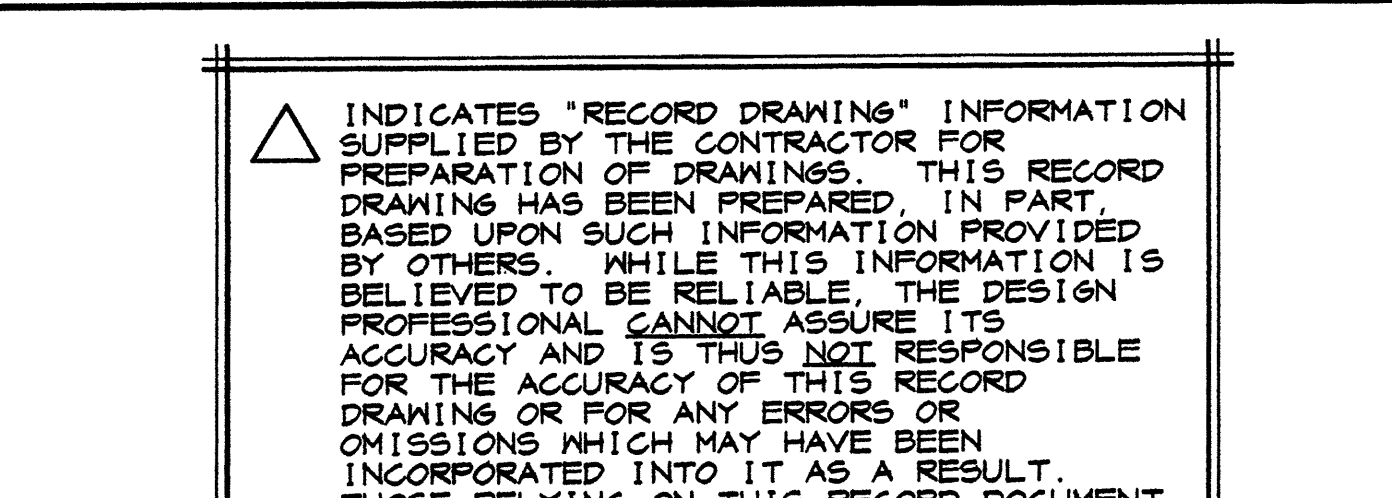
5 SECTION



B TYPICAL ROOF OPENING FRAME



A ROOF DECK ATTACHMENT DETAIL



1 TYPICAL ROOF DECK DETAILS

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SDG Project No. 2001-147-00

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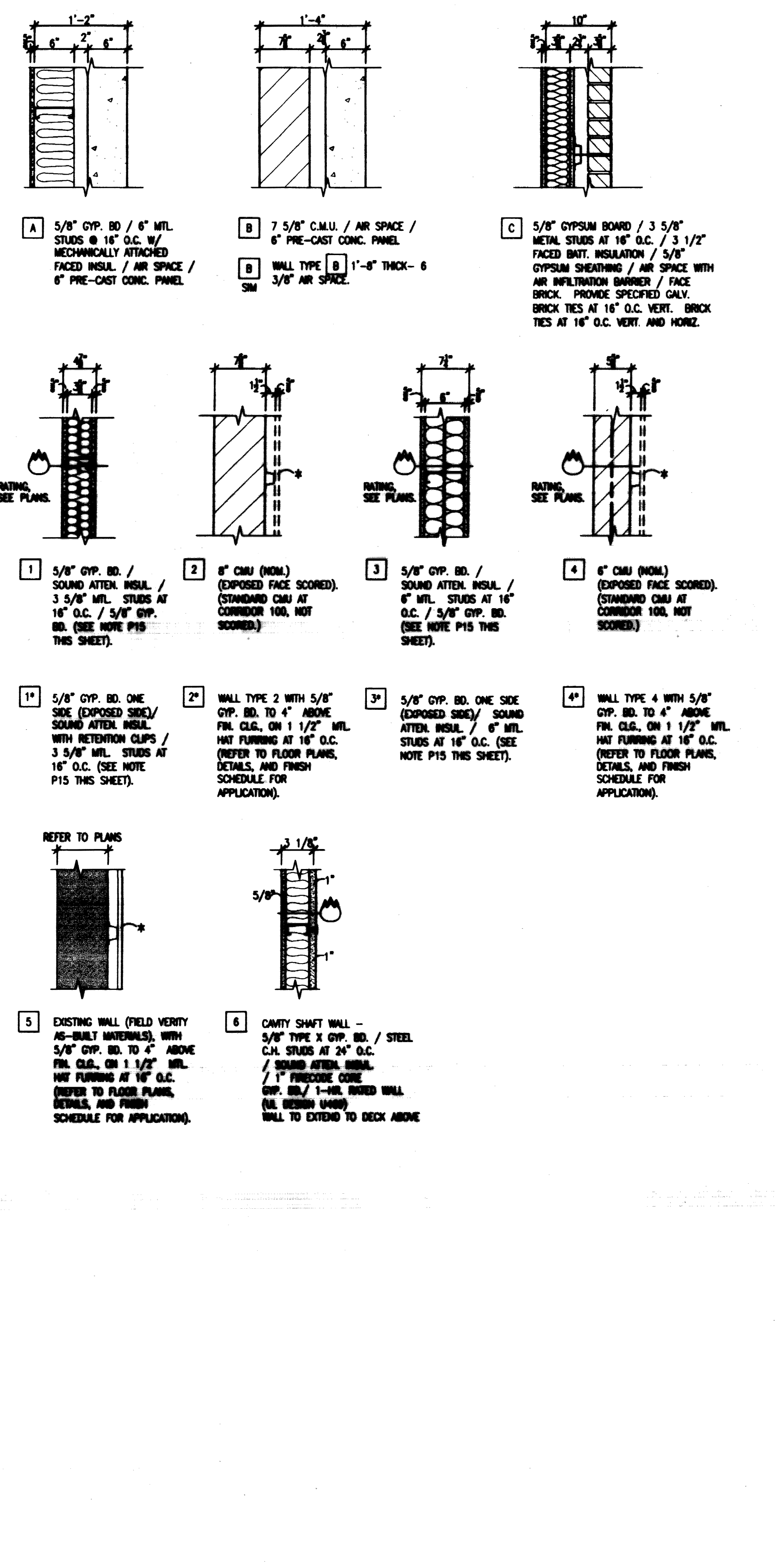
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S3.1

ABBREVIATIONS

A Anchor Bolt ACOUS Acoustical ACT Americans with Disabilities Act ADJ Adjust, Adjustable ADN Adjustable AFF Above Finish Floor AGG Aggregate AHU Air Handling Unit ALUM Aluminum ANCH Anchor AP Access Panel APPROX Approximate ASSY Assembly AUTO Automatic ATTEN Attention	B BD Board BFIN Bathroom BEV Beveled BT Blot BLK Block BLG Block BM Beam, Bench Mark BLS Bottom of BST or BT Built Up Roofing BUR	C CAB Cabinet C/C Center to Center C/C (Same meaning as C/C) CER Ceramic CF Contractor Furnished and Installed CHM Charm CI Cast Iron CJ Cast Joint CL Clear CLM Clear COL Column CONC Concrete COND Condition, Condenser, Condensate CONST Construction CONT Continuous CONTR Contractor CORUG Corrugated CR Cold Rolled CSC Coating CSK Countersink CU Cubic CULV Culvert CY Cubic Yard	D DBL Double DET Detail DF Drinking Fountain DM Diameter DN Down DTS Downspout DW(S) Down(s)	E EA Each EJ or ELEV Expansion Joint ELEC Electric, Electrical EMER Emergency ENCL Enclosure ENT Entrance EQ Equal EQRY Equipotential ESMT Easement EW Each Way EWC Electric Water Cooler (see mech drawg) EXIST Existing EXP Expansion EXT Exterior	F FAB Fabricate FC Fire Code FD Floor Drain (see mech drawg) FF Foundation FE Fire Extinguisher FEC Fire Extinguisher Cabinet FFE Finished Floor Elevation FH Flat Head FN Finish, Finished FL Floor FLGH Flashing FLX Flexible FR Fire Retardant Treated FTB Footing FUR Furring FV Field Verify	G GAL Gauge GBR Grid Bar GEN Generator GF CMU Ground Face Conc. Max. Unit GI Galvanized Iron GFI Ground Fault Interrupt GIA Gloss, Glazing GL Gloss-Laminated GLM Gloss GR Grade GST Gleazed Structural Tile GYM Gypsum	H HARD Hard HB Hole Bore HCB Hollow Core HDB Hard Board HC Handicapped HCR Header HDB Hardwood HHD Hexagonal HHT Height HSL Holding HML Hollow Metal HNSZ Horizontal HNSP Horsepower HTC Heating HTR Heater HW Hot Water, Hard White	I I Inch ID Inside Diameter ID Included IDSL Insulation INT Invert J J Junction Bar JST Joint	K KSC Kentucky Building Code	L LAM Laminated LF Light Fixture, Linear Feet LH Left Hand LJV Long Leg Vertical LOC Location LT Light LWT Lightweight	M MCC Masonry MNL Material MB Marker Board MCH Microchannel MCO Medium Density Overlay MECH Mechanical MED Medium, Medicine MFL Manufacturer MFR Markings MM Millimeter, Mils MMS Metal Lath and Plaster MSP Masonry Spacing MT Mount MTO Mounting MTC Medium	N NA Not Applicable NET Neat NE Not in Contract NOM Nominal NTS Not to Scale OC On Center OD Outside Diameter OF Owner Furnished and Installed OF-CI Owner Furnished, Contractor Installed OH Overhead OPNS Opposite	O On Center OD Outside Diameter OF Owner Furnished and Installed OF-CI Owner Furnished, Contractor Installed OH Overhead OPNS Opposite	P PART Partition Board PASS Passage PC Precast P/C Poured Concrete PERF Perforated PERP Perpendicular PF CMU Prefabricated Conc. Max. Unit PFM Plaster PLUS Plaster PLUMB Plumbing PLYND Plywood POLY Polymer POLY CARB Polycarbonate Sheet PREFAB Prefabricated PROJ Project, Projected PR Panel PSMB Panel Sharpener Block PT Point, Pressure Treated PVC Polyvinyl Chloride PWC Pavement PWS Polished Wre Glass PWS Plus or Minus	Q QT Quarry Tile	R R Rear, Radius R or RD Radius RCP Reinforced Concrete Pipe RD Roof Drain REBAR Reinforcing Bar REGR Regrade REF Reference, Refer REFR Refrigerator REFR Refrigerator, Refrigerated REFR Refrigerator RET Retaining RETR Retracting, Return RETR Retracting, Return RH Right Hand, Round Head RHS Right Hand RHW or R/W Right of Way	S SC Solid Core SCHEDULE Schedule SECT Section SEP Separate, Separation SF Square Feet, Split Face SHEATH Sheet SH Shim S.M. Shaped Metal SPR Specialty SPR Sprinkler SPM Single-Way Membrane SQ Square SS Stainless Steel STA Station STD Standard STL Steel STR Storage STRUCT Structural SUSP Suspended SYMM Symmetrical	T T Treat, Thick TACK Tackboard TC Top of Carb TCE Treated Down Stub TDS Telephone TFL Top of Finishing Elevation TGS Tape and Gypsum THT Thick, Thickness THR Threshold TIP Top of TIP Top of Concrete TOL Toler TOS Top of Steel TOS Top of Steel TST Structural Steel Tubing TYP Typical	U UC Underground UL Underlayment UNFIN Unfinished UNO Unless Noted Otherwise	V V Vacuum VBR Vapor Barrier VCT Vinyl Composition Tile VFT Vertical VF Vertical in Field	W W Wet W/W Wet Wre Fabric	X X By	Y YD Yard
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WALL / PARTITION SCHEDULE



PARTITION TYPE GENERAL NOTES:

P1 0'-0" INDICATES HEIGHT OF PARTITION. IF NO DIM. NOTED, WALL TO EXTEND FULL HEIGHT TO UNDERSIDE OF METAL DECK.

P2 ALL EXTERIOR WALLS ARE WALL TYPE [A] UNLESS INDICATED OTHERWISE.

P3 ALL INTERIOR PARTITIONS ARE WALL TYPE [I] UNLESS INDICATED OTHERWISE. ALL WALLS EXTEND TO BOTTOM OF ROOF OR FLOOR DECK UNLESS NOTED OTHERWISE.

P4 ON NON-RATED WALLS CMU (1) SIDE OF GYP. 4\"/>

P5 REFER TO STRUCTURAL DRAWINGS FOR TYPES, SIZE, LOCATION, CONNECTIONS, REINFORCEMENT AND OTHER REQUIREMENTS PERTAINING TO STRUCTURAL COMPONENTS INDICATED.

P6 REFER TO STRUCTURAL DRAWING FOR UNTEL. SCHED.

P7 ALL CHANGES IN FLOOR FINISHES SHALL OCCUR AT DOOR THRESHOLDS - TYPICAL.

P8 PROVIDE BALLBEAR UNITS AT ALL EXPOSED CMU CORNERS.

P9 REFER TO MECHANICAL DOCUMENTS FOR ALL FLOOR DRAIN LOCATIONS AND TOP OF FLOOR DRAIN ELEVATIONS.

P10 MOUNTING HEIGHTS:
TO MOUNT TOP AT 6'-0\"/>

P11 CONTACT BETWEEN DISSIMILAR METALS SHALL BE SEPARATED WITH BUSHING TYPE OR OTHER MEANS TO PREVENT GALVANIC CORROSION.

SYMBOLS

(1) ROOM NUMBER (FINISH SCHEDULE SHEET A-3)

(2) DOOR NUMBER (SCHEDULE SHEET A-3)

(3) WINDOW TYPE (SHEET A-3)

(4) TOILET ACCESSORY (SHEET A-1)

(5) REFLECTED CEILING KEY NOTE (SHEET A-7)

(6) ROOF PLAN KEY NOTE (SHEET A-4)

(7) DEMOLITION KEY NOTE (SHEET D-1)

(8) NEW WORK KEY NOTE (SHEETS A-1 AND A-2)

(9) ELEVATION MARK

(10) COLUMN LINE IDENTIFICATION

(11) FIRE EXTINGUISHER IN SEAM-RECESSED CABINET, SEE A/A-8.

(12) FIRE EXTINGUISHER ON WALL

(13) DETAIL OR ENLARGED PLAN

(14) EXTERIOR OR INTERIOR ELEVATIONS

(15) PARTIAL SECTION OR DETAILS

(16) WALL OR BUILDING SECTION

(17) WALL / PARTITION DESIGNATION:
FD - UNLIMITED SPECIFIC USE SEPARATION WALL

(18) EXIT LIGHT - SEE ELECTRICAL
ACCENT LIGHTING - SEE ELECTRICAL
SUSPENDED LIGHT - SEE ELECTRICAL
THICK LIGHTING - SEE ELECTRICAL
SUSPENDED LIGHT - SEE ELECTRICAL
2x4 LIGHT FIXTURE - SEE ELECTRICAL
1x4 LIGHT FIXTURE - SEE ELECTRICAL
COMF SOFFIT VENT W/ INSECT SCREEN
HMC STRIP SUPPLY - SEE MECHANICAL
INRECT STRIP LIGHTING - SEE ELECTRICAL
HMC SUPPLY - SEE MECHANICAL
HMC RETURN - SEE MECHANICAL

NOTE:
INFORMATION SHOWN ON THIS SHEET IS OFFICE STANDARD AND ALL MAY NOT BE USED IN THIS PROJECT.

P14 REFER TO ROOM FINISH SCHED FOR BASE CONDITION.

P15 PROVIDE METAL STUD BRACING AS REQ'D TO COMPLY WITH MANUFACTURER'S BRACING REQUIREMENTS FOR GAUGE/HEIGHT RELATIONSHIPS. (I.E. 4\"/>

P16 REFER TO STRUCTURAL DOCUMENTS FOR SPECIFIC CMU ATTACHMENT / CONNECTION OF NON-LOAD BEARING INTERIOR PARTITIONS TO STRUCTURE / DECK ABOVE.

P17 INTERIOR MASONRY AND/ OR GYPSUM BOARD EXPOSED TO VIEW SHALL BE FINISHED UNLESS NOTED OTHERWISE. REFER TO ROOM FINISH SCHEDULE.

P18 ALL PRE-CAST CONCRETE PANEL ANCHORAGE AND CONNECTIONS SHALL BE PER PRE-CAST CONC. PANEL MANUFACTURER'S RECOMMENDATIONS.

P19 SOUND ATTENUATION INSULATION THICKNESS: 3\"/>

GENERAL NOTES

G1 (NC) - MEANS NOT IN CONTRACT. ITEM TO BE PROVIDED BY OWNER AND INSTALLED BY OWNER.

G2 DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. SHOULD DISCREPANCY OCCUR CONTACT ARCH. IMMEDIATELY FOR CLARIFICATION.

G3 REFER TO ENLARGED PLANS FOR DIMENSIONS NOT SHOWN ON 1/8\"/>

G4 ALL CONCEALED WOOD BLOCKING, NAILERS AND PLYWOOD SHALL BE FIRE-RETARDANT TREATED (FRT) WHERE BLOCKING IS INDICATED OR REQ'D WITHIN THE BUILDING ENVELOPE. WOOD TRIM, INTERIOR ARCHITECTURAL WOODWORK, CASEWORK AND MILLWORK IS NOT REQUIRED TO BE F.R.T.

G5 REFER TO STRUCTURAL DRAWINGS FOR TYPES, SIZE, LOCATION, CONNECTIONS, REINFORCEMENT AND OTHER REQUIREMENTS PERTAINING TO STRUCTURAL COMPONENTS INDICATED.

G6 REFER TO STRUCTURAL DRAWING FOR UNTEL. SCHED.

G7 ALL CHANGES IN FLOOR FINISHES SHALL OCCUR AT DOOR THRESHOLDS - TYPICAL.

G8 PROVIDE BALLBEAR UNITS AT ALL EXPOSED CMU CORNERS.

G9 REFER TO MECHANICAL DOCUMENTS FOR ALL FLOOR DRAIN LOCATIONS AND TOP OF FLOOR DRAIN ELEVATIONS.

G10 MOUNTING HEIGHTS:
TO MOUNT TOP AT 6'-0\"/>

G11 CONTACT BETWEEN DISSIMILAR METALS SHALL BE SEPARATED WITH BUSHING TYPE OR OTHER MEANS TO PREVENT GALVANIC CORROSION.

RECORD DRAWINGS JUNE 18, 2003

Sherman Carter - Barnhart

PARTNERS IN ARCHITECTURE

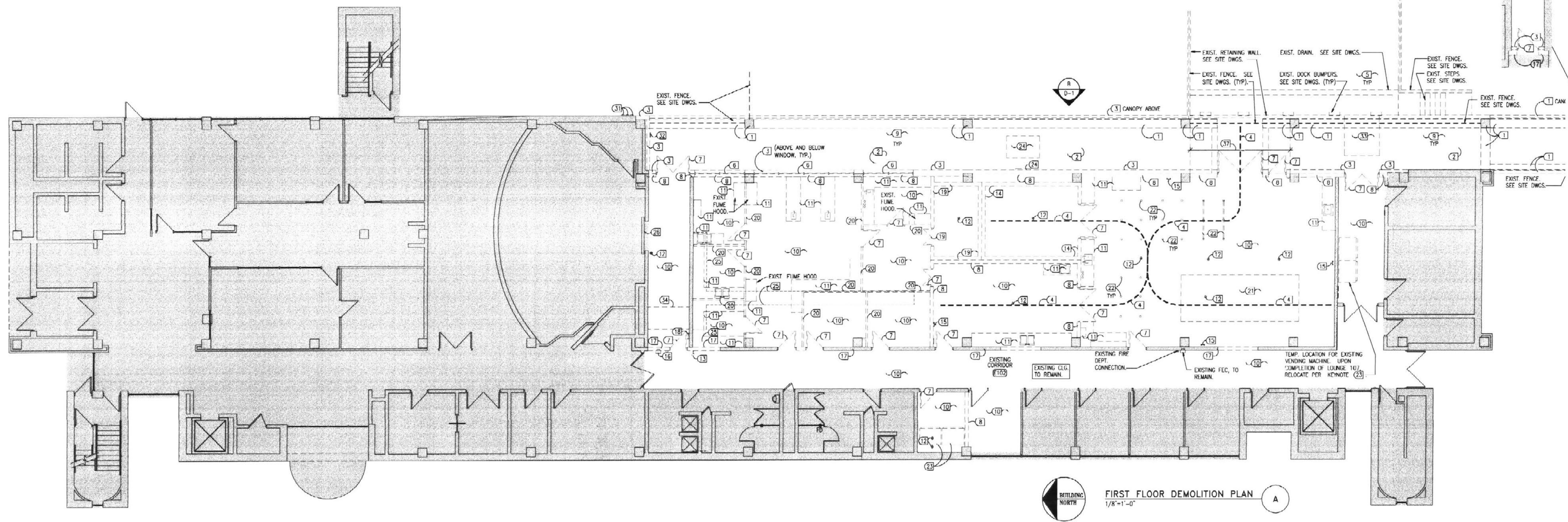
2405 HAWTHORNSHIRE ROAD • LEXINGTON, KY 40504 • PH: 859-224-1351 • FAX: 859-224-9446

JOB NO. 0146
DATE: DECEMBER 14, 2001
DRAWN: P.M.C., B.L.
CHECKED: T.M.J., J.C., B.L.
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REVISIONS
1. REVISION #1

SHEET
N-1

Doc # 8107 Document
A-3
2.6828



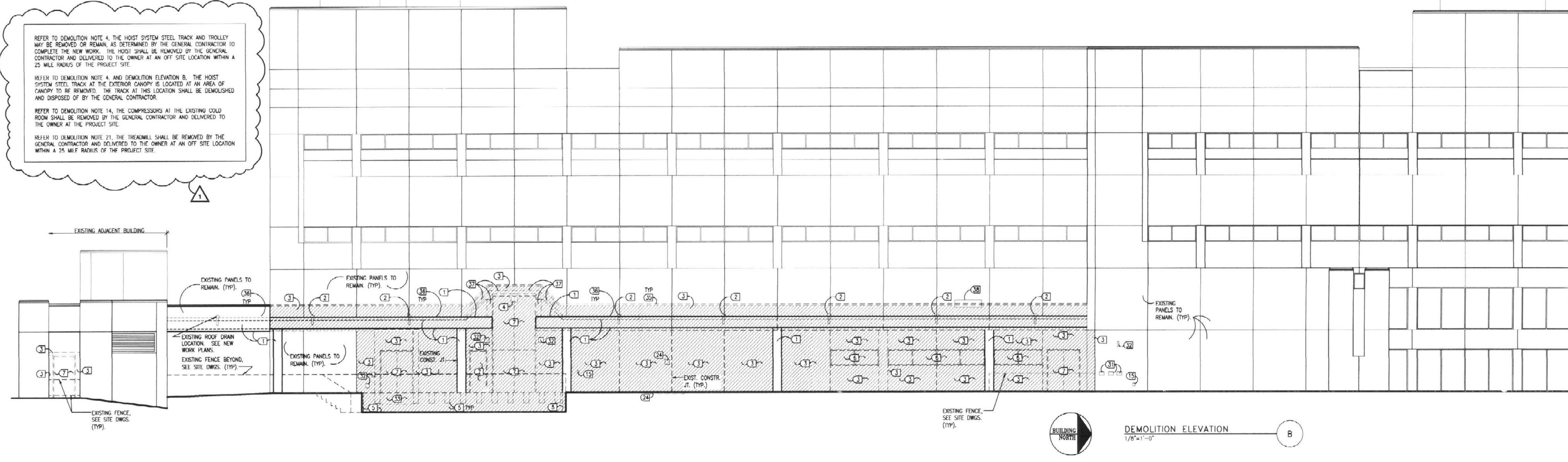
FIRST FLOOR DEMOLITION PLAN
1/8"=1'-0"

REFER TO DEMOLITION NOTE 4. THE HOIST SYSTEM STEEL TRACK AND TROLLEY MAY BE REMOVED OR REMAIN, AS DETERMINED BY THE GENERAL CONTRACTOR TO COMPLETE THE NEW WORK. THE HOIST SHALL BE REMOVED BY THE GENERAL CONTRACTOR AND DELIVERED TO THE OWNER AT AN OFF-SITE LOCATION WITHIN A 25 MILE RADIUS OF THE PROJECT SITE.

REFER TO DEMOLITION NOTE 4 AND DEMOLITION ELEVATION B. THE HOIST SYSTEM STEEL TRACK AT THE EXTERIOR CANOPY IS LOCATED AT AN AREA OF CANOPY TO BE REMOVED. THE TRACK AT THIS LOCATION SHALL BE DEMOLISHED AND DISPOSED OF BY THE GENERAL CONTRACTOR.

REFER TO DEMOLITION NOTE 14. THE COMPRESSORS AT THE EXISTING COOL ROOM SHALL BE REMOVED BY THE GENERAL CONTRACTOR AND DELIVERED TO THE OWNER AT THE PROJECT SITE.

REFER TO DEMOLITION NOTE 21. THE TREADMILL SHALL BE REMOVED BY THE GENERAL CONTRACTOR AND DELIVERED TO THE OWNER AT AN OFF-SITE LOCATION WITHIN A 25 MILE RADIUS OF THE PROJECT SITE.



DEMOLITION ELEVATION
1/8"=1'-0"

DEMOLITION KEYNOTES (REFER TO A-2 AND A-7 FOR ADDITIONAL DEMOLITION PLANS)

- EXIST. WALKWAY CANOPY, CONC. COLUMNS, STRUCTURE AND DECK TO REMAIN, U.N.O.
- REMOVE EXISTING ROOF DRAINS, ROOF LEAKS, AND MECHANICAL/ELECTRICAL ITEMS IN THEIR ENTIRETY. REFER TO MECH. DWGS FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING CONCRETE WALL PANELS AS REQ'D. TO FACILITATE NEW CONSTRUCTION. VERIFY REMAINING CONC. PANELS ARE ADEQUATELY SUPPORTED.
- REMOVE EXISTING CEILING MOUNTED HOIST SYSTEM AND RETURN TO OWNER. EXISTING TROLLEY AND RAILS TO BE REMOVED AS REQUIRED TO FACILITATE NEW CONSTRUCTIONS.
- REMOVE ALL EXISTING LOADING DOCK, RETAINING WALLS, AND ACCESSORIES. REFER TO SITE DRAWINGS FOR ADDITIONAL DEMOLITION NOTES AT THIS AREA.
- REMOVE EXISTING WINDOW IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO FRAMES, SILLS AND ALL ASSOCIATED HARDWARE.
- REMOVE EXISTING DOOR INCLUDING BUT NOT LIMITED TO HARDWARE AND FRAMES.
- REMOVE PORTION OF EXISTING MASONRY WALL FROM LIMITS SHOWN TO BEARING GROUND FLOOR AND/OR PROMOTE FLOOR PATCH AS REQ'D. TO RECEIVE NEW FINISHES.
- REMOVE CONCRETE WALK. REFER TO SITE DOCUMENTS.
- REMOVE EXISTING FLOOR FINISH, BASE, CEILING GRID W/ TILL, SOFFITS, ETC. PREPARE EXISTING FLOORS AND WALLS TO RECEIVE NEW FINISHES. CEILING TO REMAIN AT CORRIDOR ELEV.
- REMOVE ALL CASEWORK, CABINET, EQUIPMENT, ETC INCLUDING BUT NOT LIMITED TO "CAS, VACUUM, AIR" BBS AND SINKS - REFER TO MECHANICAL DOCUMENTS AND "L"-SHEETS FOR ADDITIONAL INFORMATION. RETURN ALL CABINETS TO OWNER.
- EXISTING FLOOR DRAIN TO BE REMOVED AND SEALED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. PROVIDE FLOOR PATCH AS REQ'D. TO RECEIVE NEW FINISH.
- EXISTING EMERGENCY SHOWER TO BE REMOVED AND UTILITIES SEALED. REFER TO MECHANICAL DOCUMENTS FOR ADDITIONAL INFORMATION. PATCH AND REPAIR EXISTING SURFACES TO MATCH ADJACENT SURFACES.
- REMOVE EXISTING PRE-FAB COOLER UNITS/WALLS/CEILING/LIGHTS IN ITS ENTIRETY. REMOVE EXISTING CONDENSERS, MAINTAIN IN GOOD CONDITION AND RETURN TO OWNER. SEE GENERAL DEMOLITION NO. 10.
- EXISTING HOSE RIG TO BE DEMOLISHED. REFER TO MECHANICAL DOCUMENTS FOR ADDITIONAL INFORMATION.
- REMOVE EXISTING FIRE EXTINGUISHER CABINET.
- REMOVE PORTION OF EXIST. WALL AS REQUIRED FOR NEW WORK. PROVIDE NEW LUNEL OR BOND BEAM AS SCHEDULED AS WELL AS TEMPORARY SHORING AS REQUIRED. REFER TO FLOOR PLANS AND SCHEDULES FOR EXTENT OF NEW WORK. PATCH LIGHT CONC. FLOOR AS REQUIRED TO RECEIVE NEW FINISHES.
- CAREFULLY REMOVE AND RELOCATE EXISTING ACCESS LADDER AS DETICATED IN THE NEW WORK FLOOR PLANS. REMOVE EXISTING DOOR AND FRAME AT LANDING ABOVE AND INFILL EXISTING DOOR OPENING. REFER TO A/A-6 AND K/A-6.
- CAREFULLY REMOVE EXISTING COOL ROOM. ALL EQUIPMENT, STORE AND RELOCATE PER NEW WORK PLANS, A/A-1.
- REMOVE EXISTING METAL STUD AND GYPSUM BOARD WALL IN ITS ENTIRETY. PATCH AND REPAIR ADJACENT REMAINING SURFACES.
- REMOVE ALL INFLUENTIAL EQUIPMENT AND RETURN TO OWNER. REFER TO STRUCTURAL DOCUMENTS FOR INFILL INFORMATION.
- REMOVE ALL PIPE RAILS AND SLEEVES INFILL ALL IN-SLAB PIPE SLEEVES.
- CAREFULLY REMOVE, STORE AND RELOCATE EXIST. VENDING MACHINES. REFER TO NEW WORK PLAN A-1 FOR NEW LOCATION.
- CAREFULLY REMOVE HORSE SCALE AND RELATED ELECTRICAL COMPONENTS IN THEIR ENTIRETY AND RETURN TO OWNER.
- EXISTING CATWALK ABOVE. TO REMAIN. REFER TO DETAIL A/A-5 AND K/A-4-B.
- EXISTING SLIDING DOORS TO REMAIN AS IS.
- CAREFULLY REMOVE EXISTING CASEWORK/ EQUIPMENT FOR RELOCATION. REFER TO "L" SHEETS FOR NEW LOCATION. (SEE PARTIAL DEMOLITION PLANS A-7).
- EXISTING EQUIPMENT/ CASEWORK TO REMAIN. (SEE PARTIAL DEMOLITION PLANS A-2).
- REMOVE EXISTING CEILING SYSTEM IN ITS ENTIRETY. REFER TO SHEET A-7 FOR ADDITIONAL INFORMATION. (SEE PARTIAL DEMOLITION PLANS A-2).
- EXISTING GYPSUM BOARD CEILING TO REMAIN. (SEE PARTIAL DEMOLITION PLANS A-2).
- EXISTING FIRE DEPARTMENT CONNECTION TO BE ABANDONED. REFER TO M&E DOCUMENTS.
- EXISTING ELECTRICAL ITEM TO BE ABANDONED. REFER TO M&E DOCUMENTS. REFER TO B/B-1.
- EXISTING DOOR LEVELER TO BE REMOVED AND DELIVERED TO OWNER. REFER TO SITE DOCUMENTS.
- REMOVE EXISTING CATWALK LANDING IN ITS ENTIRETY.
- REMOVE EXISTING COPING, WD. NAILERS, ETC. (REFER TO B/B-0-1).
- REMOVE EXIST. ROOF ASSEMBLY, IN ITS ENTIRETY, TO CONC. DECK. AT AREAS TO RECEIVE NEW ROOF TYPE "3", PREPARE CONC. DECK TO RECEIVE NEW ROOF SYSTEM. (REFER TO A-4).
- EXISTING WALKWAY CANOPY, CONCRETE STRUCTURE AND DECK, AT EXISTING RAISED AREA, TO BE DEMOLISHED.
- EXISTING HVAC LOUVER TO BE DEMOLISHED. REFER TO MECH DWGS FOR NEW WORK.

GENERAL DEMOLITION NOTES

- DEMOLITION REFERENCE NOTES FOR THIS PROJECT ARE INTENDED TO GENERALLY IDENTIFY THE REMOVAL OF EXISTING ITEMS AT LOCATIONS WHERE REQUIRED BUT SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE FULL RESPONSIBILITY FOR FIELD EXAMINING AND VERIFYING THE FULL EXTENT OF EXISTING CONDITIONS PRIOR TO BEGINNING THE PROJECT. MECHANICAL AND ELECTRICAL ITEMS INDICATED ON ARCHITECTURAL SHEET D-1 IS INTENDED TO ASSIST WITH THE IDENTIFICATION AND LOCATION OF ITEMS FOR COORDINATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL OF ITEMS TO ALLOW FOR NEW CONSTRUCTION SHOWN OR NOT SHOWN ON DEMOLITION PLANS AS MAY BE REQUIRED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL DEMOLISHED MATERIALS. ALL REMOVED MATERIALS SHALL BE DISPOSED OF, UNLESS NOTED AS "RETURNED TO OWNER".
- CAVITY WALLS AND SPACES BEHIND EXTERIOR FINISHES OR PARTIALLY REMOVED WALLS/ROOFS, ETC. SHALL BE PROTECTED FROM EXPOSURE TO WEATHER BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGED WALLS, ROOFS, EQUIPMENT, ETC. CAUSED BY THIS DEMOLITION OR WEATHER EXPOSURE OF ITEMS THAT ARE TO REMAIN.
- INFORMATION AND DWGS INCLUDED IN THESE CONTRACT DOCS PERTAINING TO GLUCK EQUINE RESEARCH CENTER CONSTR. HAVE BEEN OBTAINED FROM ORIGINAL DWGS PROVIDED BY UNIVERSITY OF KENTUCKY. THIS INFORMATION IS INCLUDED HEREIN WITH THE INTENT TO PROVIDE THE CONTRACTOR WITH A BASIC UNDERSTANDING OF EXISTING CONDITIONS. ACTUAL CONDITIONS AND DWGS MAY VARY FROM THOSE INDICATED ON ORIGINAL DWGS AND REQ. FIELD VERIFICATION. THE CONTRACTOR MAY REVIEW THE ENTIRE SET OF ORIGINAL DRAWINGS ON FILE AT THE ARCHITECT'S OFFICE.
- REFER TO SYMBOL DWGS/ SPECS FOR SPECIFIC REQUIREMENTS AT EXIST. CONDITIONS REQUIRING PARTIAL OR COMPLETE REMOVAL AND/OR MODIFICATION TO COMPONENTS OR ASSEMBLIES PERTAINING TO EXIST. BLDG. STRUCT.
- REFER TO MECH. AND/OR ELEC. DWGS/ SPECS FOR SPECIFIC REQUIREMENTS PERTAINING TO THE REMOVAL, RELOCATION AND/OR MODIFICATION OF ITEMS RELATED TO EXIST. MECH. AND ELEC. SYSTEMS.
- SHOULD THE CONTRACTOR ENCOUNTER ANY MATERIALS DURING SELECTIVE DEMOLITION AND NEW WORK WHICH ARE SUSPECTED BY THE CONTRACTOR TO BE OF AN UNKNOWN OR QUESTIONABLE COMPOSITION WITH RESPECT TO CONTAINING CONTAMINANTS WHICH MAY BE HAZARDOUS TO HUMAN HEALTH, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER IN WRITING OF SUCH FINDINGS.
- WHERE AN EXIST. WALL IS REMOVED AND NO NEW WALL IS SHOWN TO BE INSTALLED, REMOVE EXIST. WALL TO 8" BELOW ADJACENT FLR SLAB. PATCH AND REPAIR SLAB AS REQ'D FOR INSTALLATION OF NEW FLR FIN.
- ALL AREAS LEFT EXPOSED AS A RESULT OF DEMOLITION AND/OR EQUIPMENT REMOVAL SHALL BE PATCHED AND REPAIRED TO RESULT IN A FLUSH SMOOTH SURFACE. PREPARED TO RECEIVE NEW FINISHES AS SCHEDULED. ANY AREAS / OPENINGS IN MASONRY WALLS LARGER THAN 2" EXPOSED TO VIEW SHALL BE PATCHED WITH SCRAPED IN CMU UNITS TOOTHED INTO EXISTING MASONRY.
- ALL COMPRESSORS TO BE REMOVED, DISCHARGE ALL REFRIGERANT IN COMPLIANCE WITH REQUIRED GUIDELINES, LOCAL, FEDERAL AND UNIVERSITY.
- ALL DEMOLISHED OVERHEAD ITEMS TO BE LOWERED TO THE FLOOR, NOT DROPPED. GO TO USE EXTREME CAUTION DURING DEMOLITION TO MINIMIZE UNNECESSARY VIBRATION.

INDICATES "RECORD DRAWING" INFORMATION SUPPLIED BY THE CONTRACTOR FOR PREPARATION OF DRAWINGS. THIS RECORD DRAWING HAS BEEN PREPARED, IN PART, BASED UPON SUCH INFORMATION PROVIDED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE DESIGN PROFESSIONAL CANNOT ASSURE ITS ACCURACY AND IS THEREFORE NOT RESPONSIBLE FOR THE ACCURACY OF THIS RECORD DRAWING OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE APPLYING IT FOR ANY PURPOSE.

HAZARDOUS MATERIALS NOTES

- THE CONTRACTOR IS HEREBY ADVISED THAT SHERMAN-CARTER-BARNHART, PSC IS NOT A DESIGN PROFESSIONAL IN THE DETERMINATION OF THE PRESENCE OF HAZARDOUS MATERIALS, NOR IS SHERMAN CARTER BARNHART, PSC A DESIGN PROFESSIONAL INVOLVED IN MAKING RECOMMENDATIONS REGARDING THE TESTING, REMOVAL, ENCAPSULATION OR OTHER CORRECTIVE MEASURES PERTAINING TO HAZARDOUS MATERIALS.
- IF THE WORK WHICH IS TO BE PERFORMED UNDER THE CONTRACT INTERFACES IN ANY WAY WITH THE EXISTING COMPONENTS WHICH CONTAIN HAZARDOUS MATERIALS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S ENVIRONMENTAL CONSULTANT REGARDING THE PROPER MEANS AND METHODS TO BE UTILIZED IN DEALING WITH HAZARDOUS MATERIALS.
- BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR HEREBY AGREES TO BRING NO CLAIM FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY OR OTHERWISE, AGAINST THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS IF SUCH A CLAIM IN ANY WAY WOULD INVOLVE THE INVESTIGATION OF OR REMEDIAL WORK RELATED TO HAZARDOUS MATERIALS IN THE PROJECT.
- BY EXECUTION OF THE CONTRACT FOR CONSTRUCTION, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ARCHITECT, HIS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH ASBESTOS OR OTHER HAZARDOUS MATERIALS RELATED CLAIMS THAT MAY BE BROUGHT BY THE CONTRACTOR'S SUBCONTRACTORS, SUPPLIERS OR OTHER THIRD PARTIES WHO MAY BE ACTING UNDER THE DIRECTION OF THE CONTRACTOR PURSUANT TO THIS PROJECT.

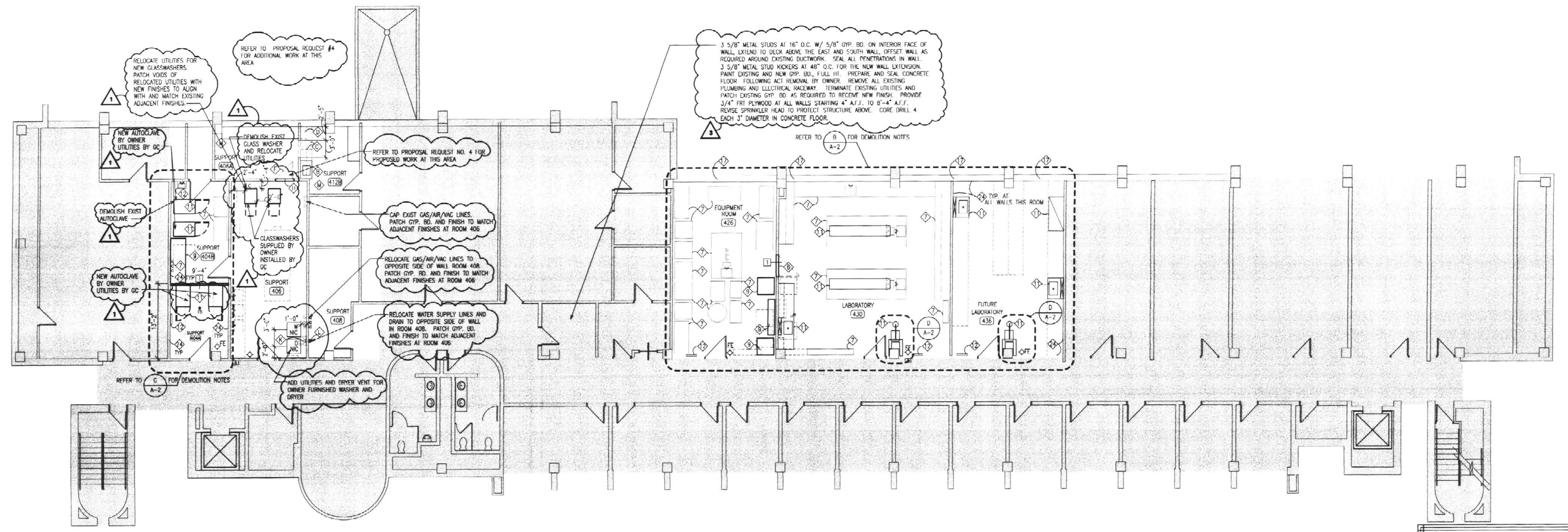
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DATE: DECEMBER 14, 2001
DRAWN: PAC, BRG
CHECKED: TAM, JN, JDC, RKL

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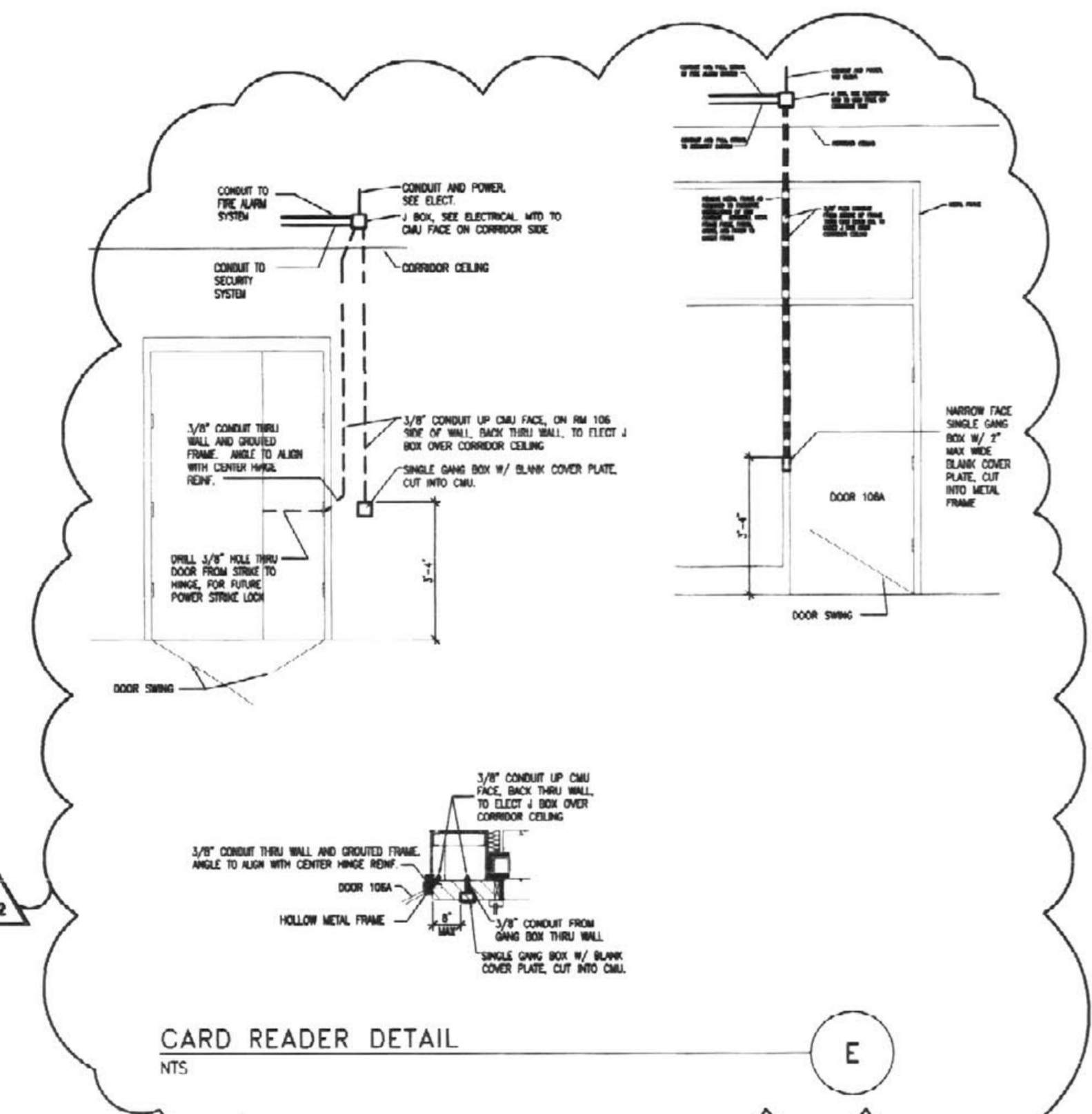
REVISIONS
1. ADDENDUM #1

SHEET

D-1

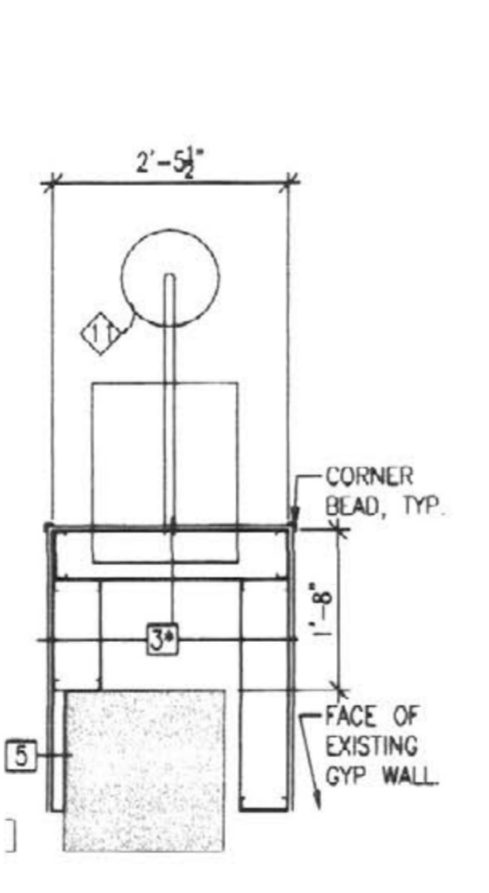


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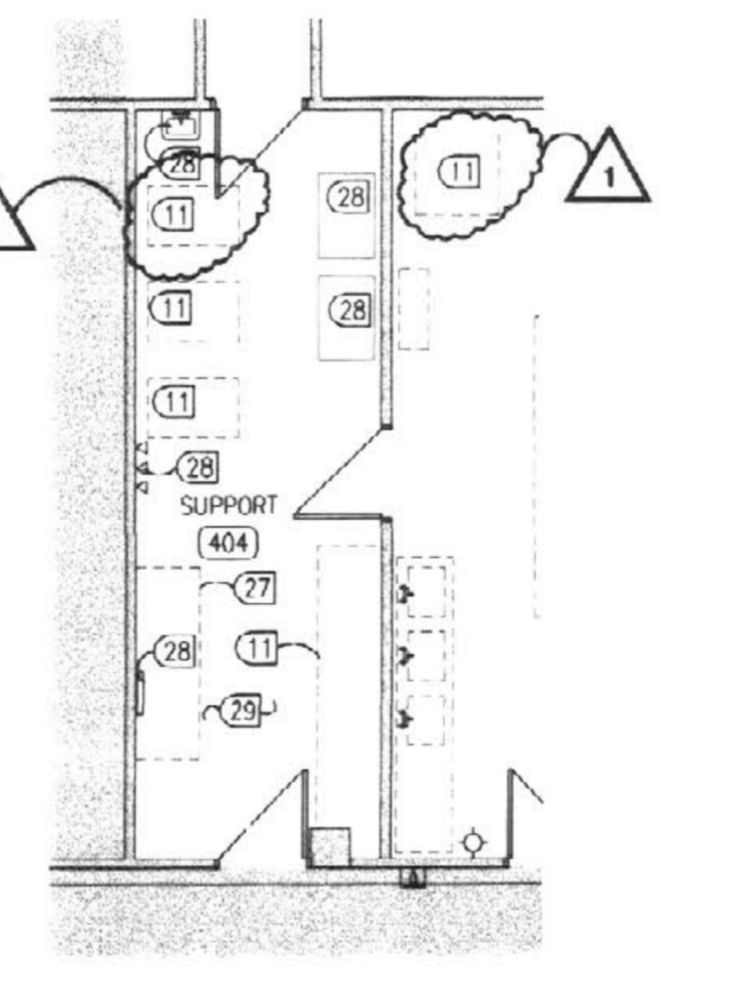


- RELOCATE UTILITIES FOR NEW GLASSWASHERS. PATCH VOIDS OF RELOCATED UTILITIES WITH NEW FINISHES TO ALIGN WITH AND MATCH EXISTING ADJACENT FINISHES.
- DEMOLISH EXIST. AUTOCLAVE BY OWNER UTILITIES BY GC.
- DEMOLISH EXIST. AUTOCLAVE BY OWNER UTILITIES BY GC.
- RELOCATE UTILITIES FOR NEW GLASSWASHERS. PATCH VOIDS OF RELOCATED UTILITIES WITH NEW FINISHES TO ALIGN WITH AND MATCH EXISTING ADJACENT FINISHES.
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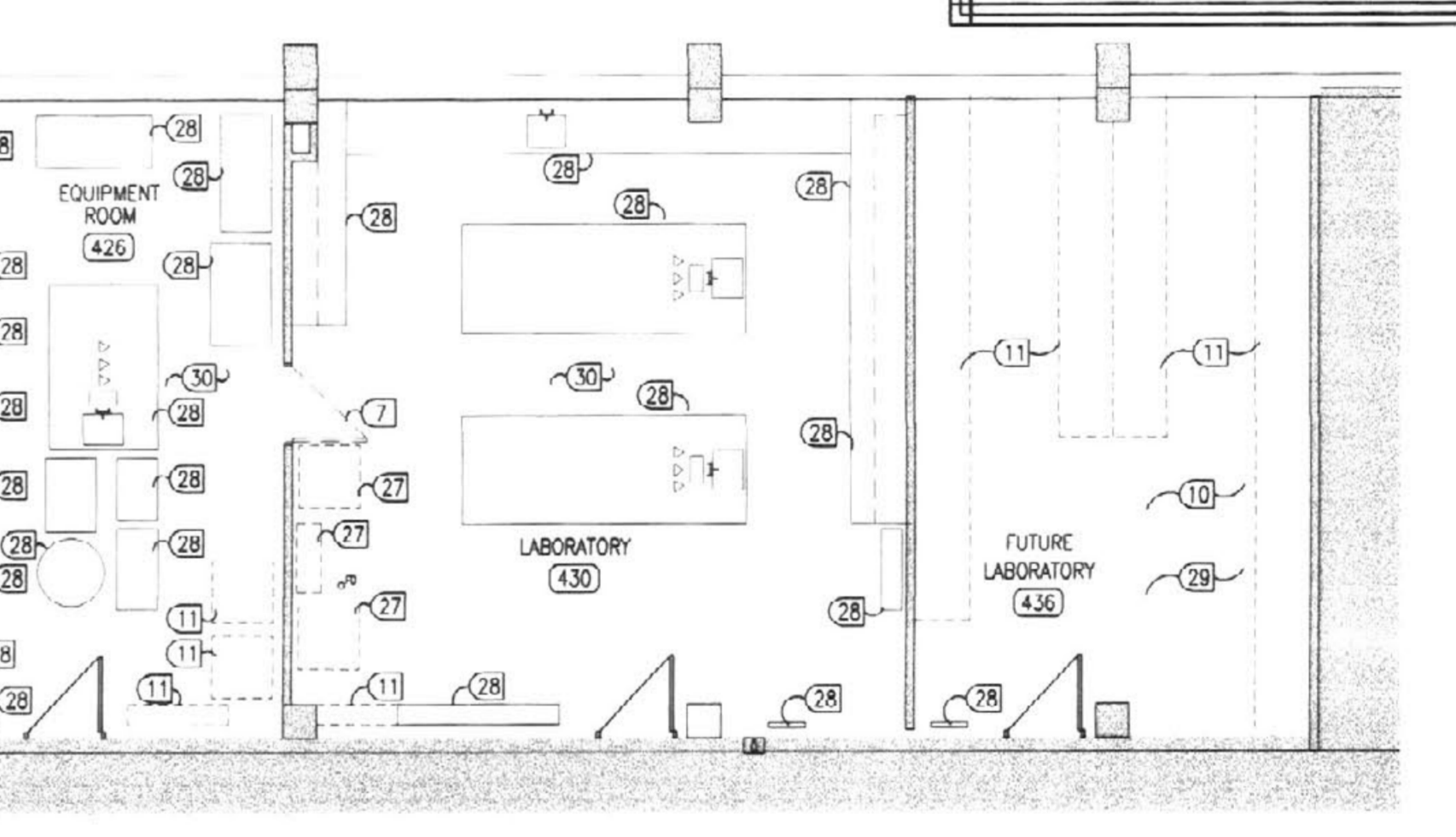
NOTE: REFER TO SHEET A-7 FOR CEILING WORK AT THIRD FLOOR AS REQUIRED FOR PLUMBING WORK ABOVE EXISTING CEILINGS.



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



NOTE: REFER TO SHEET D-1 FOR HAZARDOUS MATERIALS NOTE AND GENERAL DEMOLITION NOTES.



NOTE: REFER TO SHEET D-1 FOR HAZARDOUS MATERIALS NOTE AND GENERAL DEMOLITION NOTES.

DEMOLITION KEYNOTES (REFER TO D-1 AND A-7 FOR ADDITIONAL DEMOLITION PLANS)

1. EXIST. WALKWAY CANOPY. CONG. COLUMNS, STRUCTURE AND DECK TO REMAIN. U.N.O.	13. EXISTING EMERGENCY SHOWER TO BE REMOVED AND UTILITIES SEALED. REFER TO MECHANICAL DOCUMENTS FOR ADDITIONAL INFORMATION. PATCH AND REPAIR EXISTING WALLS TO MATCH ADJACENT SURFACES.	24. CAREFULLY REMOVE HORSE SCALE AND RELATED ELECTRICAL COMPONENTS IN THEIR ENTIRETY AND RETURN TO OWNER.
2. REMOVE EXISTING ROOF DRAINS, ROOF LEADERS, AND MECHANICAL/ELECTRICAL ITEMS IN THEIR ENTIRETY. REFER TO M&E DWGS FOR ADDITIONAL INFORMATION.	14. REMOVE EXISTING PRE-FAB. COOLER WALLS/Ceilings/EQUIP. IN ITS ENTIRETY. REMOVE EXISTING CONDENSERS. MAINTAIN IN GOOD CONDITION AND RETURN TO OWNER. SEE GENERAL DEMOLITION NOTE 10.	25. EXISTING CATWALK ABOVE TO REMAIN. REFER TO DETAIL A/A-5 AND K/A-8.
3. REMOVE EXISTING CONCRETE WALL PANELS AS REQ'D. TO FACILITATE NEW CONSTRUCTION. VERIFY REMAINING CONG. PANELS ARE ADEQUATELY SUPPORTED.	15. REMOVE EXISTING CONDENSERS. MAINTAIN IN GOOD CONDITION AND RETURN TO OWNER. SEE GENERAL DEMOLITION NOTE 10.	26. EXISTING SLIDING DOORS TO REMAIN AS IS.
4. REMOVE EXISTING CEILING MOUNTED HOST SYSTEM AND RETURN TO OWNER. EXISTING TRILLY AND RAILS TO BE REMOVED AS REQUIRED TO FACILITATE NEW CONSTRUCTIONS.	16. REMOVE EXISTING FIRE EXTINGUISHER CABINET.	27. CAREFULLY REMOVE EXISTING CASEWORK/EQUIPMENT FOR RELOCATION REFER TO "L" SHEETS FOR NEW LOCATION. (SEE PARTIAL DEMOLITION PLANS A-2).
5. REMOVE ALL EXISTING LOADING DOCK RETAINING WALLS, AND ACCESSORIES. REFER TO SITE DRAWINGS FOR ADDITIONAL DEMOLITION NOTES AT THIS AREA.	17. REMOVE PORTION OF EXIST. WALL AS REQUIRED FOR NEW WORK. PROVIDE NEW LINTEL OR BOND BEAM AS SCHEDULED AS WELL AS TEMPORARY SHORING AS REQUIRED. REFER TO FLOOR PLANS AND SCHEDULES FOR EXTENT OF NEW WORK. PATCH EXIST. CONG. FLOOR AS REQUIRED TO RECEIVE NEW FINISHES.	28. EXISTING EQUIPMENT/CASEWORK TO REMAIN. (SEE PARTIAL DEMOLITION PLANS A-2).
6. REMOVE EXISTING WINDOW IN ITS ENTIRETY INCLUDING BUT NOT LIMITED TO FRAMES, SILLS AND ALL ASSOCIATED HARDWARE.	18. CAREFULLY REMOVE AND RELOCATE EXISTING ACCESS LADDER AS DIRECTED IN THE NEW WORK FLOOR PLANS. REMOVE EXISTING DOOR AND FRAME AT LANDING ABOVE AND INFLIT EXISTING DOOR OPENING. REFER TO A/A-8 AND K/A-8.	29. REMOVE EXISTING CEILING SYSTEM IN ITS ENTIRETY. REFER TO SHEET A-7 FOR ADDITIONAL INFORMATION. (SEE PARTIAL DEMOLITION PLANS A-2).
7. REMOVE EXISTING DOOR INCLUDING BUT NOT LIMITED TO HORIZONTAL AND FRAMES.	19. CAREFULLY REMOVE EXISTING COOL ROOM. ALL EQUIPMENT, STORE AND RELOCATE PER NEW WORK PLANS, A/A-11.	30. EXISTING GYPSUM BOARD CEILING TO REMAIN. (SEE PARTIAL DEMOLITION PLANS A-2).
8. REMOVE PORTION OF EXISTING MASONRY WALL FROM LIMITS SHOWN TO BEARING CRAND FLOOR AND/OR PROVIDE FLOOR PATCH AS REQ'D TO RECEIVE NEW FINISHES.	20. REMOVE EXISTING METAL STUD AND GYPSUM BOARD WALL IN ITS ENTIRETY. PATCH AND REPAIR ADJACENT REMAINING SURFACES.	31. EXISTING FIRE DEPARTMENT CONNECTION TO BE ABANDONED. REFER TO M&E DOCUMENTS.
9. REMOVE CONCRETE WALK. REFER TO SITE DOCUMENTS.	21. REMOVE ALL CASEWORK, CABINET, EQUIPMENT, ETC. INCLUDING BUT NOT LIMITED TO "S" SHEETS FOR ADDITIONAL INFORMATION. RETURN ALL CABINETS TO OWNER.	32. EXISTING ELECTRICAL ITEM TO BE ABANDONED. REFER TO M&E DOCUMENTS. REFER TO B/D-1.
10. REMOVE EXISTING FLOOR FINISH, BASE, CEILING GRID W/ TILE, SOFFITS, ETC. PREPARE EXISTING FLOORS AND WALLS TO RECEIVE NEW FINISHES. CEILING TO REMAIN AT CORRIDOR E102.	22. REMOVE ALL PIPE RAILS AND SLEEVES INFLIT ALL IN-SLAB PIPE SLEEVES.	33. EXISTING DOCK LEVELER TO BE REMOVED AND DELIVERED TO OWNER. REFER TO SITE DOCUMENTS.
11. REMOVE ALL CASEWORK, CABINET, EQUIPMENT, ETC. INCLUDING BUT NOT LIMITED TO "S" SHEETS FOR ADDITIONAL INFORMATION. RETURN ALL CABINETS TO OWNER.	23. CAREFULLY REMOVE, STORE, AND RELOCATE EXIST. VENDING MACHINES. REFER TO NEW WORK PLAN A-1 FOR NEW LOCATION.	34. REMOVE EXISTING CATWALK LEAVING IN ITS ENTIRETY.
12. EXISTING FLOOR DRAIN TO BE REMOVED AND SEALED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. PROVIDE FLOOR PATCH AS REQ'D TO RECEIVE NEW FINISHES.		35. REMOVE EXISTING COPING, WQ. WALLERS, ETC. (REFER TO B/D-1).
		36. REMOVE EXIST. ROOF ASSEMBLY, IN ITS ENTIRETY, TO CONG. DECK. AT AREAS TO RECEIVE NEW ROOF TYPE "B". PREPARE CONG. DECK TO RECEIVE NEW ROOF SYSTEM. (REFER TO A-4).
		37. EXISTING WALKWAY CANOPY, CONCRETE STRUCTURE AND DECK, AT EXISTING RAISED AREA TO BE DEMOLISHED.
		38. EXISTING HANG LOUVER TO BE DEMOLISHED. REFER TO MECH DWGS FOR NEW WORK.

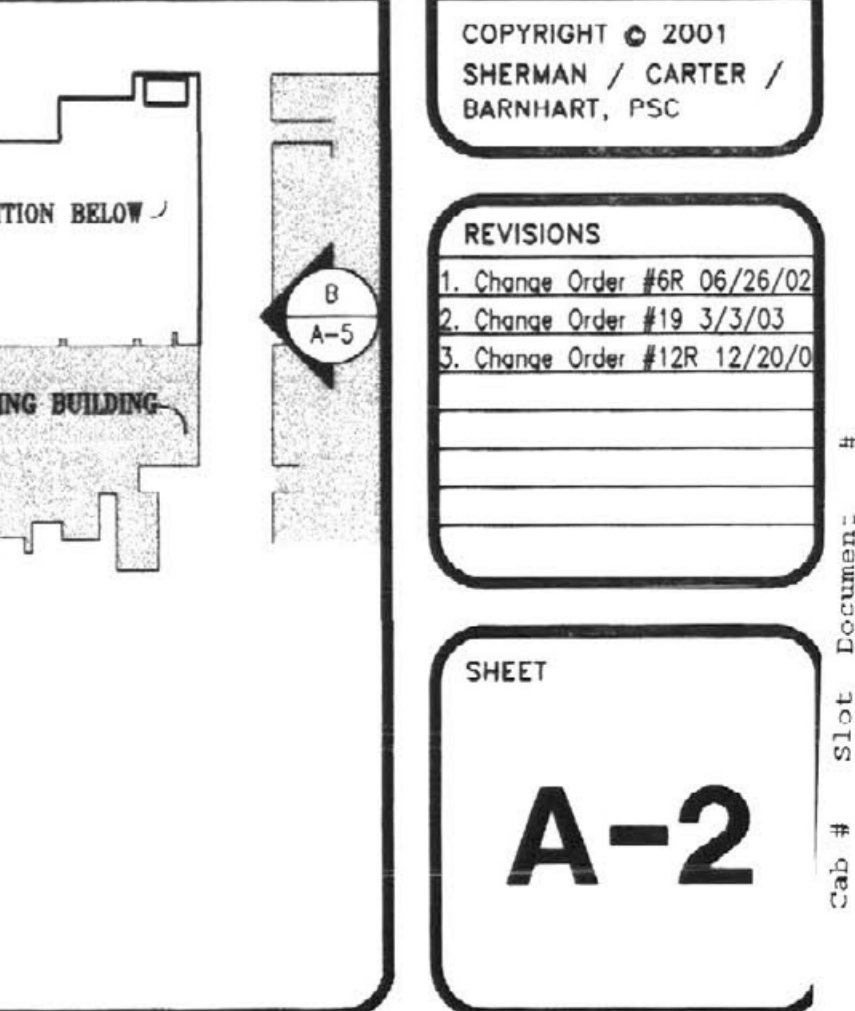
KEYNOTES

- 1. RELOCATED ACCESS LADDER. REFER TO D-1 AND DET. K/A-8.
- 2. RELOCATED EXISTING VENDING MACHINES. SEE KEYNOTE 23 SHEET D-1.
- 3. TOOTH-IN NEW EXIST. SCORED 8" (NOM) C.M.U. INTO EXISTING SCORED 8" C.M.U.
- 4. 8x8 SCORED 8" (NOM) C.M.U. INFLIT EXIST. DOOR TOOTH INTO EXISTING SCORED 8" (NOM) C.M.U.
- 5. STEEL GUARDRAIL/HANDRAIL. REFER TO SITE DOCUMENTS.
- 6. INFLIT EXISTING OPENING WITH 3 5/8" METAL STUDS AT 16" O.C. WITH 5/8" GYPSUM BOARD EACH SIDE. PAINT TO MATCH EXISTING WALLS. PROVIDE VINYL BASE TO ALIGN WITH AND MATCH FINISH OF EXISTING ADJACENT BASE.
- 7. EXISTING EQUIPMENT/CASEWORK TO REMAIN.
- 8. CONCRETE PANELS ABOVE DUMPSTER ENCLOSURE, WALL TYPE "B" S.M. REFER TO DETAIL J/A-8.
- 9. EXISTING EQUIPMENT/CASEWORK RELOCATED. SEE L- DWGS AND M&E SHEETS.
- 10. EXISTING SLIDING DOORS TO REMAIN.
- 11. NEW CASEWORK/EQUIPMENT. SEE L-DWGS. AND M&E DWGS.
- 12. EXISTING ITEMS TO REMAIN.
- 13. CEILING MOUNTED PROJECTION SINK. REFER TO REFLECTED CEILING PLAN AND DETAIL EE/A-8.
- 14. STEEL GATE AT DUMPSTER ENCLOSURE. REFER TO D/A-5.
- 15. NEW CONG. FLR. SLAB AND FILL M&E. REFER TO STRUCT. DWGS. PROVIDE 3/8" E.J. MATL. BETWEEN NEW AND EXIST. CONG. HOLD E.J. MATL. DOWN 1" FROM TOP OF CONG. PROVIDE FIRE RATING COMPOUND AS REQ'D. FOR TILE SUBSTRATE PRIOR TO TILE INSTALLATION. SEE DETAIL G/A-6 FOR ADDITIONAL INFORMATION.
- 16. REMOVE PORTION OF EXISTING CATWALK AS REQUIRED FOR NEW ACCESS TO LADDER BELOW.
- 17. EXISTING WINDOWS AND CONSTRUCTION TO REMAIN.
- 18. LINE OF GYPSUM BOARD SOFFIT ABOVE. REFER TO REFLECTED CEILING PLAN SHEET A-7.
- 19. DOOR E01 AT ADJACENT BUILDING TO BE MODIFIED. REFER TO A-5 AND DOOR SCHEDULE.
- 20. 18" PLASTIC LAMINATE SHELF WITH COAT ROD. T.O. SHELF AT 72" A.F.F.
- 21. CONCRETE WALK. SEE SITE DOCUMENTS.
- 22. TILE CONSTR. JT. TO ALIGN WITH CONG. JT. BELOW.
- 23. EXISTING GRADE BEAM FLUSH WITH EXISTING FLOOR TO REMAIN. GRIND DOWN OR BUILD-UP WITH FLOOR LEVELING COMPOUND AS REQUIRED TO PROVIDE LEVEL SUBSTRATE FOR NEW FLOOR FINISH. REFER TO DETAIL G/A-6.
- 24. EXISTING WALLS TO BE PAINTED. REFER TO ROOM FINISH SCHEDULE.
- 25. ADA PUSH BUTTON. REFER TO DIVISION 8 HARDWARE SPECIFICATIONS. BOLLARD MOUNTED AT EXTERIOR. WALL MOUNTED AT INTERIOR.
- 26. FIRE DEPARTMENT CONNECTIONS, REFER TO FIRE PROTECTION DOCUMENTS.
- 27. PROPOSED CONG. FLR. REFER TO STRUCT. AND MECH. DWGS.
- 28. REMOVE EXISTING ACoust. CEG. GRID AND TILL AS REQUIRED TO INSTALL NEW CONDUIT. REINSTALL OR REPLACE ACoust. CEG. GRID AND TILL AT EXISTING CEG. HTS.
- 29. WALL DOOR BUMPERS. SEE SITE DETAL Q/D-3.
- 30. FIRE ANNUNCIATOR PANEL. REFER TO FIRE PROTECTION DOCUMENTS.

SYMBOLS

- X ROOM NUMBER (FIN. SCHED. SHT A-3)
- D DOOR NUMBER (DOOR SCHED. SHT A-3)
- W WALL TYPE (SHT N-1)
- W WINDOW TYPE (SHT A-3)
- D DEMOLITION KEYNOTE (SHT D-1)
- W W/LL ACCESSORY (SHT A-1)
- M/M MALL / PARTITION DESIGNATION (D = UNRAILED SPECIFIC USE SEPARATION)
- E EXPANSION JOINT - 3/8" BACKER ROD AND SEALANT FULL HT.
- N NEW WALL MOUNTED FIRE EXTINGUISHER
- N NEW FIRE EXTINGUISHER AND CABINET
- H HOSE BIB, REFER TO PLUMBING DOCUMENTS, MOUNT 18" ABOVE WALK.
- NEW WALLS
- EXISTING WALLS TO REMAIN, EXISTING AREA
- EXISTING WALL TO BE REMOVED
- TEMPORARY WALL
- EXISTING DOOR, FRAME, AND HARDWARE TO REMAIN, U.N.O.
- EXISTING AIR, GAS, VACUUM REFER TO PLANS FOR SPECIFIC INFORMATION.

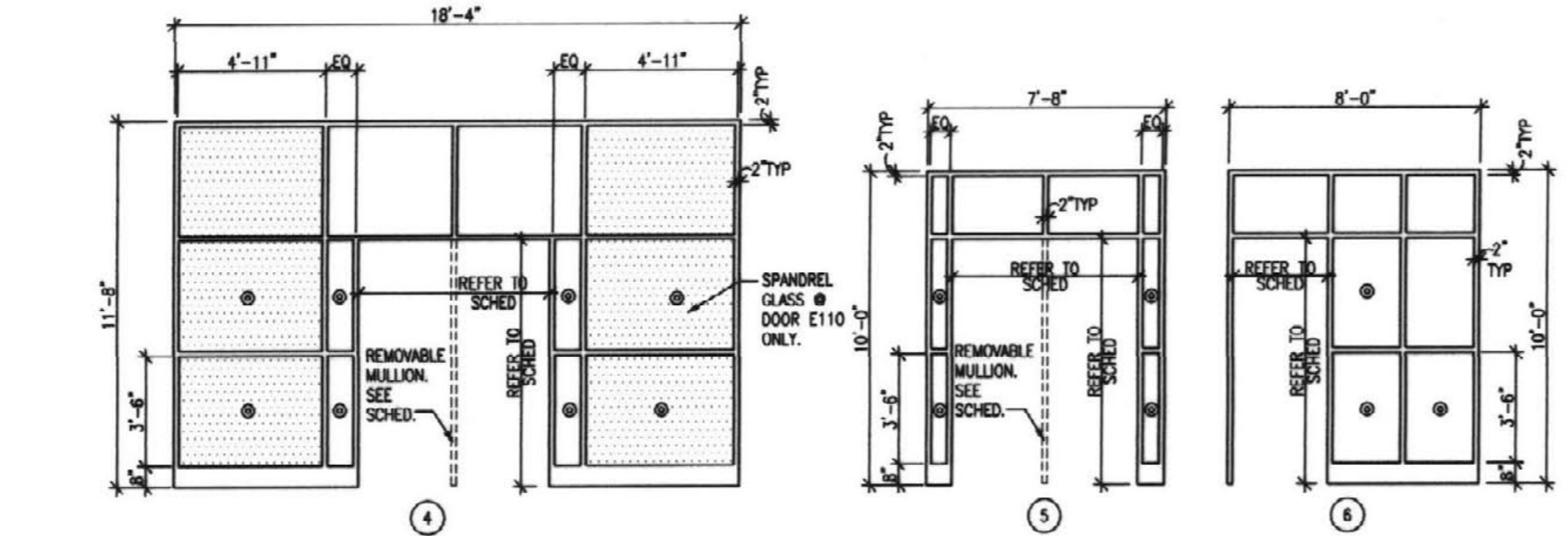
FOURTH FLOOR KEY PLAN



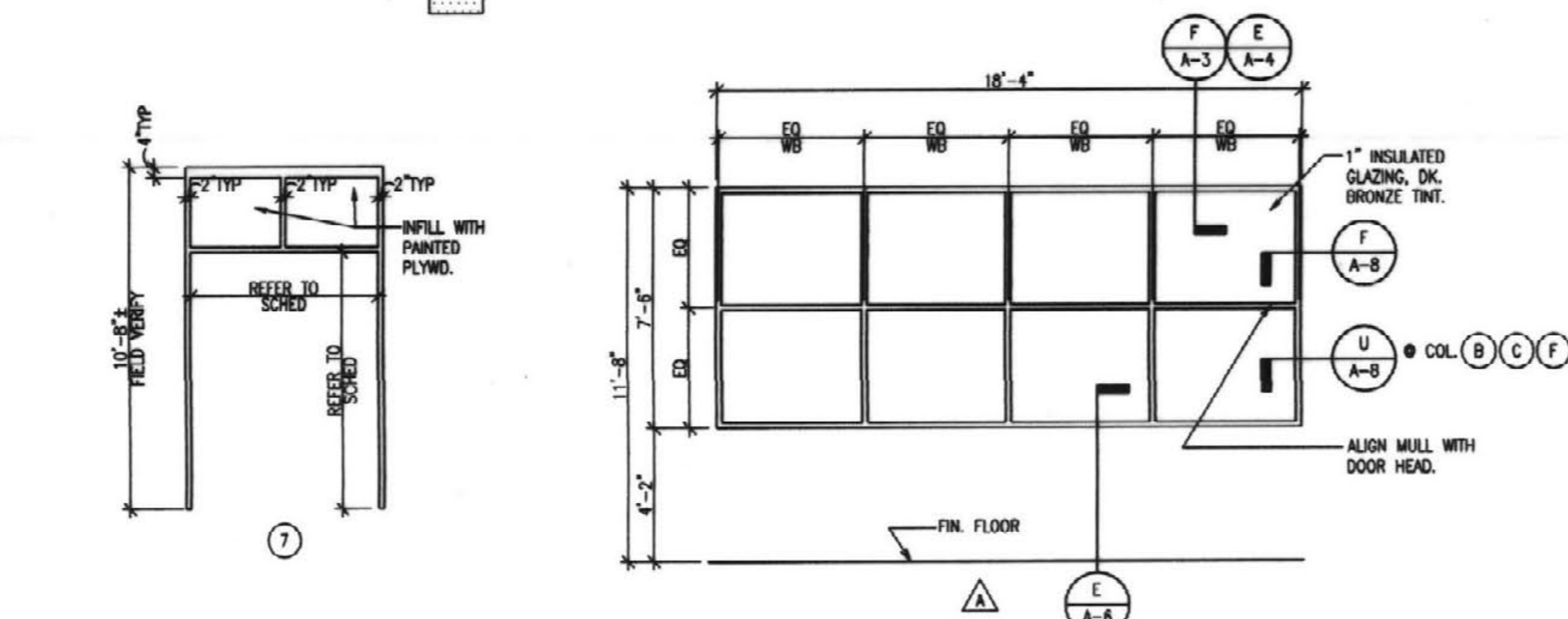
RECORD DRAWINGS JUNE 18, 2003
SHERMAN, CARTER, BARNHART PSC
PARTNERS IN ARCHITECTURE
2405 HARRISBURG ROAD • LEITCHFIELD, KY 40044 • PH: 859-224-1351 • FAX: 859-224-8446

JOB NO. 0746
DATE: DECEMBER 14, 2001
DRAWN: PMC.BRG
CHECKED: IAM, JN, JDC, BKU
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REVISIONS
1. Change Order #89 06/26/03
2. Change Order #119 3/13/03
3. Change Order #128 12/20/03
SHEET
A-2

DOOR TYPES
1/4" = 1'-0"



DOOR FRAME TYPES
1/4" = 1'-0"



DOOR FRAME TYPES
1/4" = 1'-0"

WINDOW FRAME TYPE
1/4" = 1'-0"

ROOM FINISH SCHEDULE table with columns: NO., ROOM NAME, FLOOR, BASE, WALLS, CEILING, HT, REMARKS.

DOOR AND FRAME SCHEDULE table with columns: NO., NO. LEAVES, SIZE, MATL., TYPE, GLAZING, FRAME, TYPE, GLAZING, FIRE LABEL, ROOM SIGNAGE, CLOSER, REMARKS.

FIRST FLOOR

Room schedule for the first floor, listing rooms like Corridor, Lab Support, Storage, etc.

FIRST FLOOR INTERIOR DOORS

Door schedule for the first floor interior doors, listing door types, sizes, and materials.

THIRD FLOOR

Room schedule for the third floor, listing rooms like Instrument Room, Preparation and Clean-up, etc.

THIRD FLOOR INTERIOR DOORS

Door schedule for the third floor interior doors.

FOURTH FLOOR

Room schedule for the fourth floor, listing rooms like Support, Equipment Room, Laboratory, etc.

FOURTH FLOOR INTERIOR DOORS

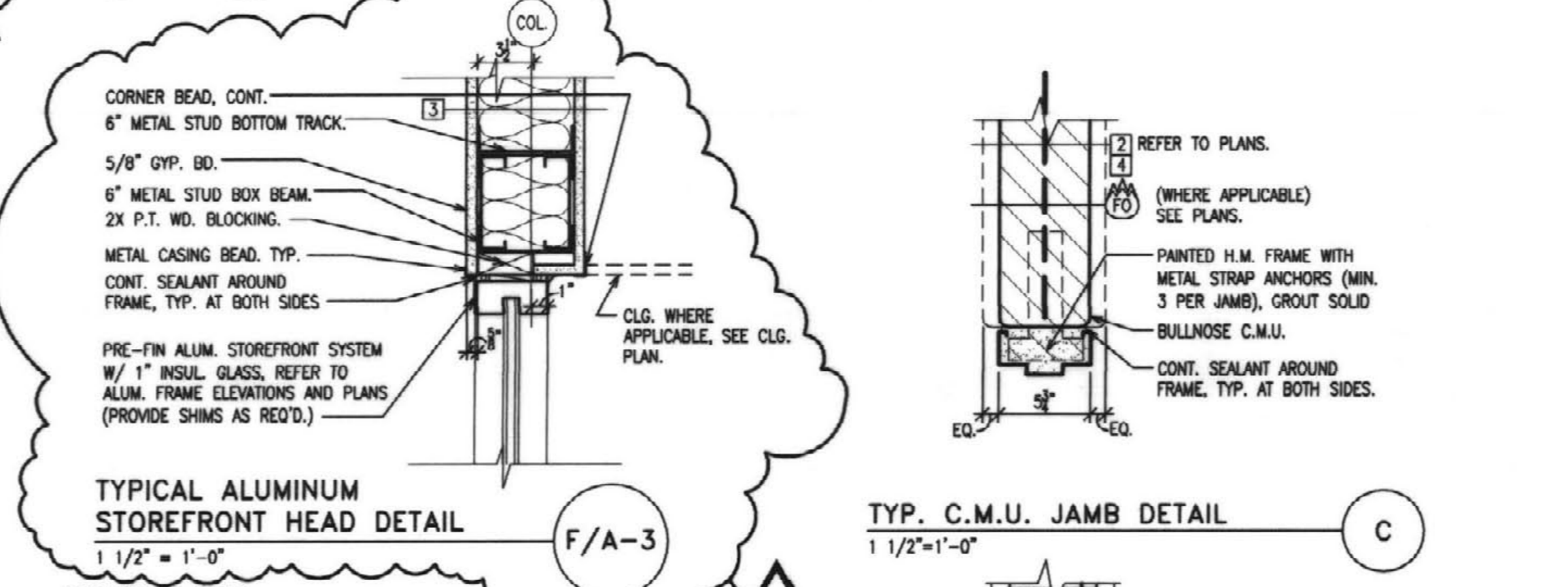
Door schedule for the fourth floor interior doors.

REMARKS

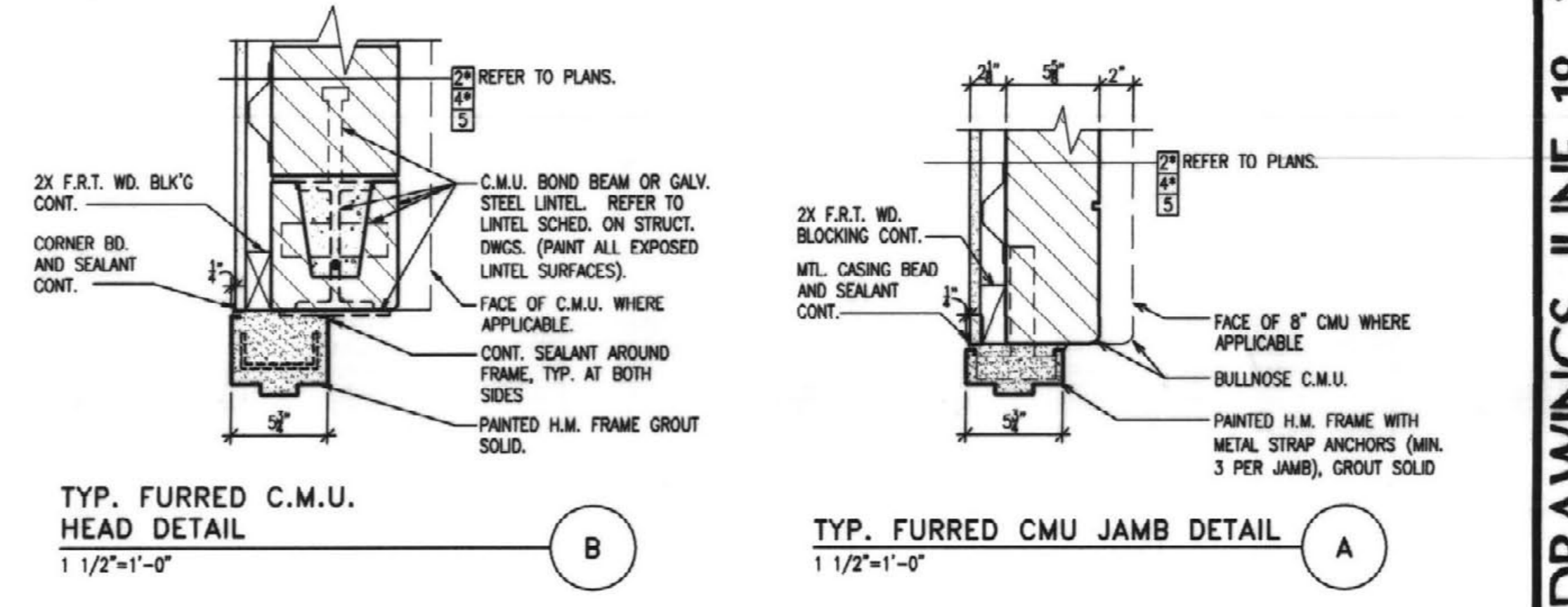
- 1. MORE THAN ONE FINISH IS LISTED SEE FLOOR PLANS, SECTIONS AND/OR DETAILS FOR QUANTITY & LOCATION OF MATERIALS.
- 2. REFER TO TYPICAL HEAD AND JAMB DETAILS ON THIS SHEET UNLESS NOTED OTHERWISE.

DOOR AND FRAME NOTES

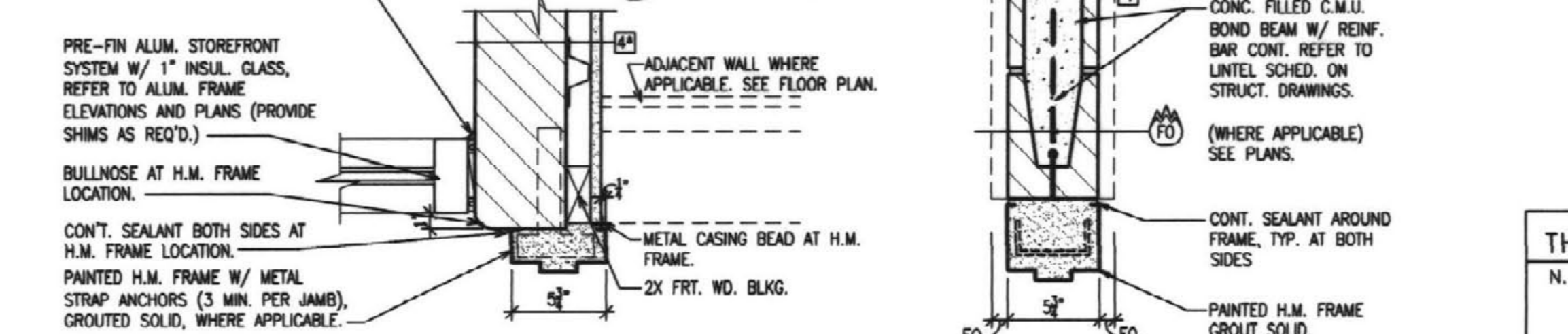
- 1. PROVIDE REINFORCING CHANNEL IN FRAME HEAD AT ALL H.M. FRAMES WHERE TOTAL FRAME WIDTH IS GREATER THAN 4 FT.
- 2. PROVIDE 11 - GA. X 2" WIDE STRAPS AT 8" O.C. IN H.M. FRAME HEADS GREATER THAN 2" IN HT., TYPICAL.



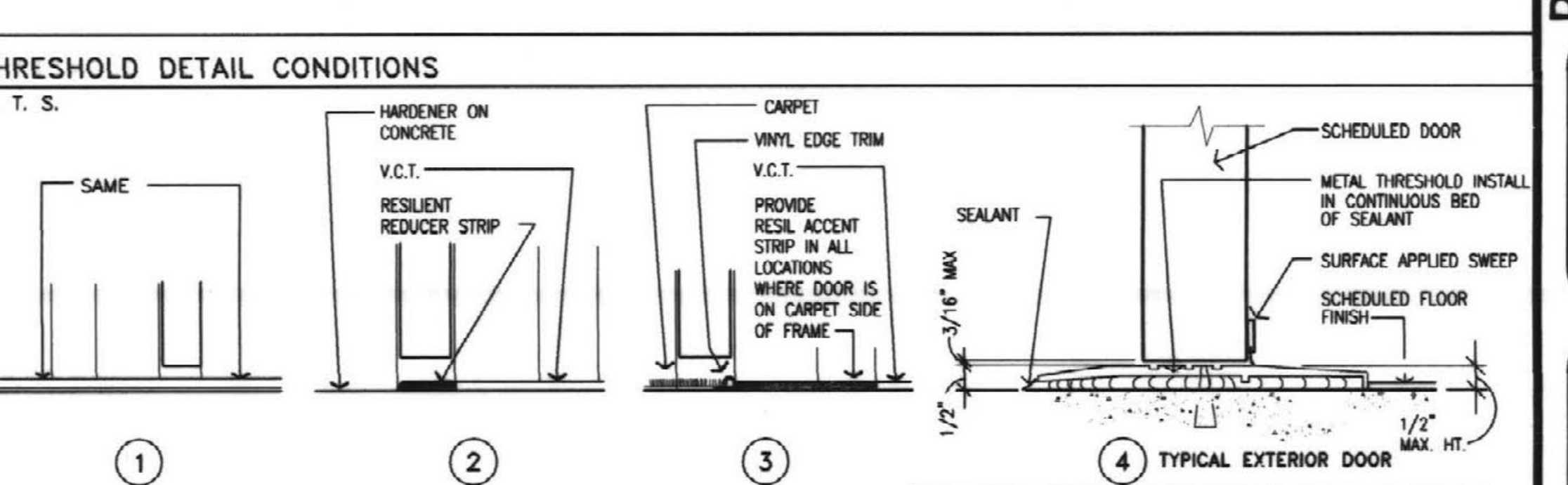
TYP. ALUMINUM STOREFRONT HEAD DETAIL 1 1/2" = 1'-0"



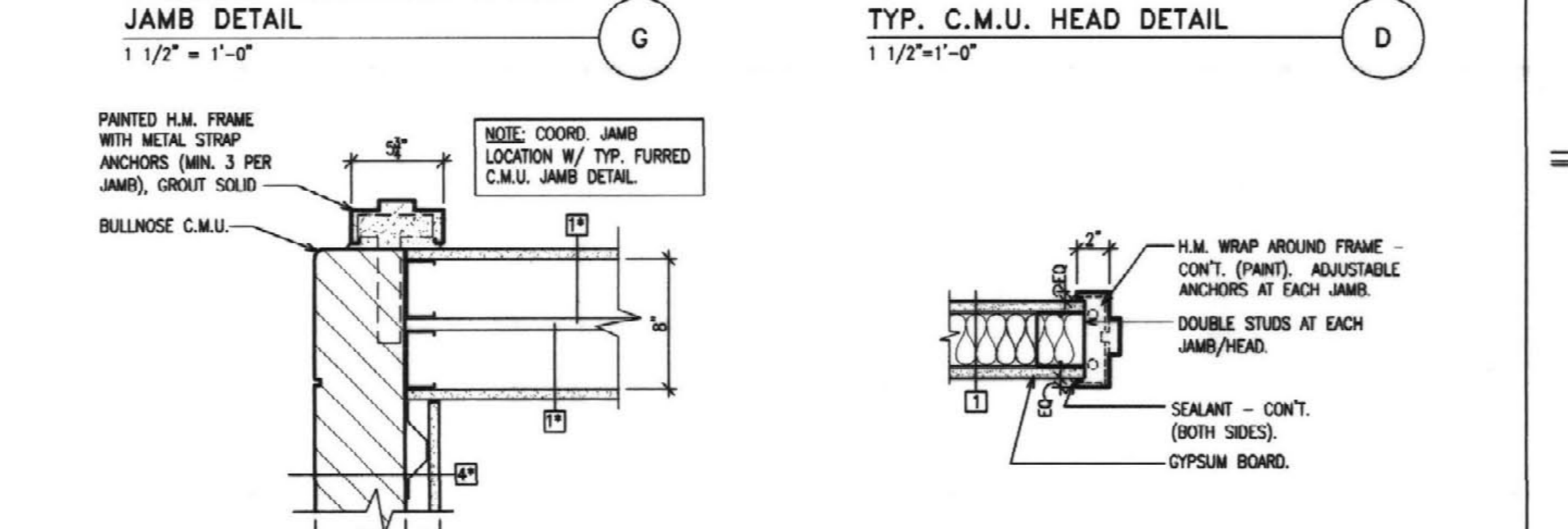
TYP. C.M.U. JAMB DETAIL, TYP. C.M.U. HEAD DETAIL, TYP. FURRED C.M.U. HEAD DETAIL



ALUMINUM STOREFRONT & H.M. JAMB DETAIL 1 1/2" = 1'-0"



TYP. GYPSUM BOARD ASSEMBLY JAMB/HEAD DETAIL 1 1/2" = 1'-0"



JAMB DETAIL, HEAD DETAIL, JAMB DETAIL, JAMB DETAIL, HEAD DETAIL

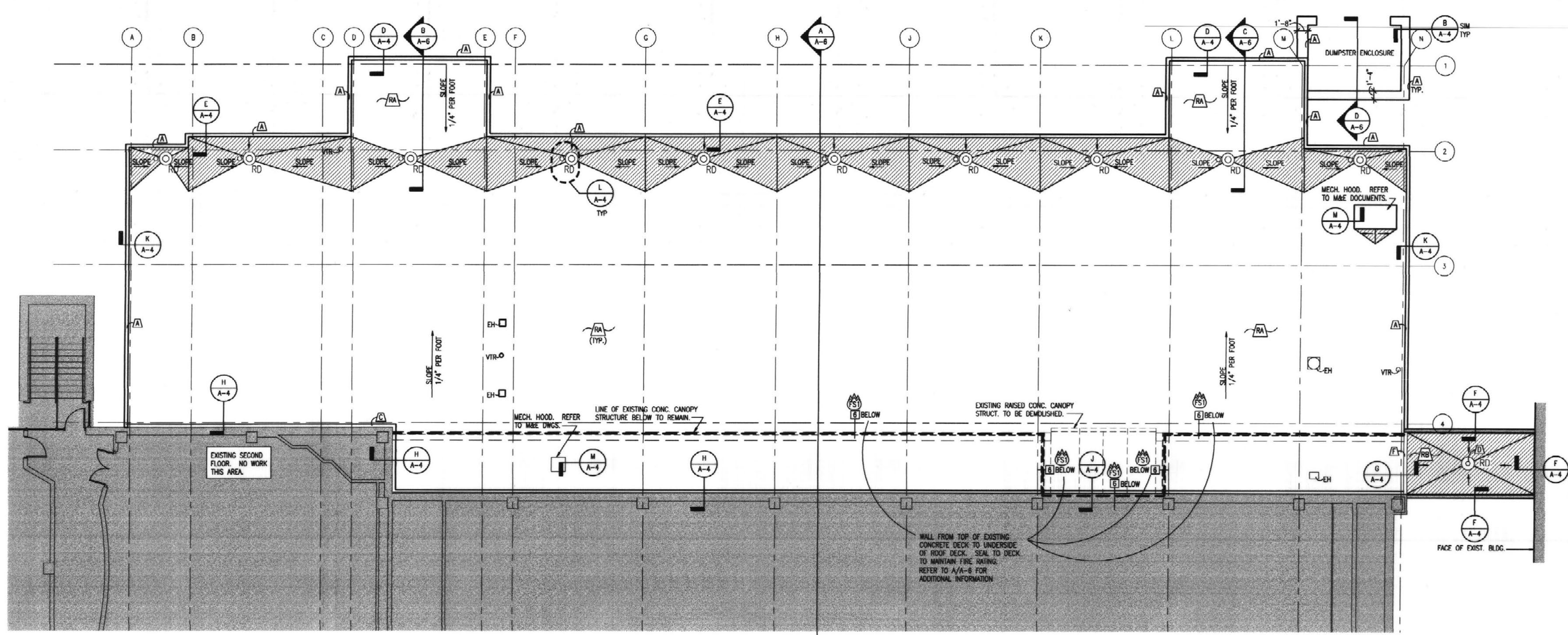


THRESHOLD DETAIL CONDITIONS

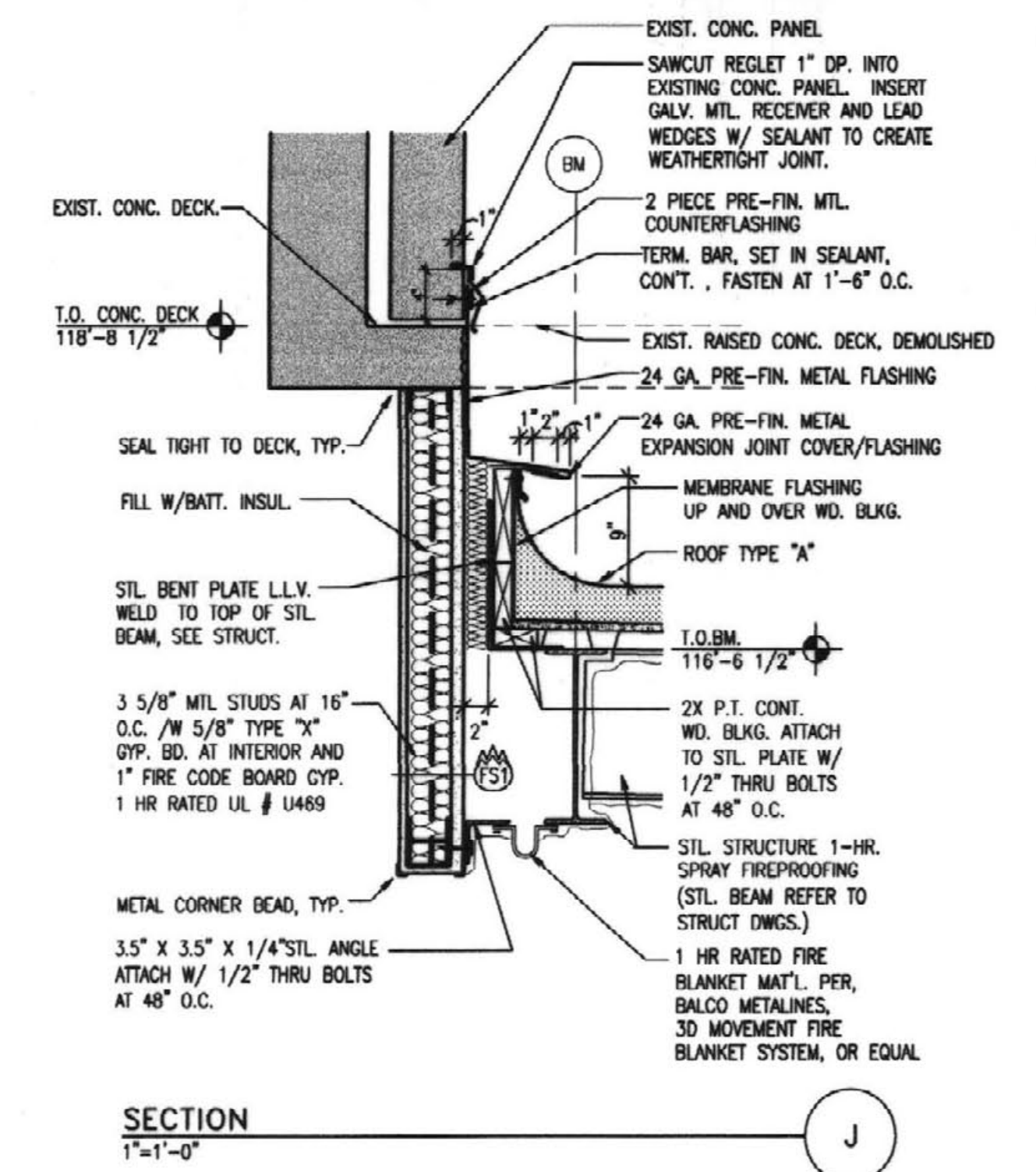
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Vertical text on the right edge: RECORD DRAWINGS JUNE 18, 2003, Sherman Carter, Barnhart, PARTNERS IN ARCHITECTURE, Gluck Equine Research Center Renovation, University of Kentucky.

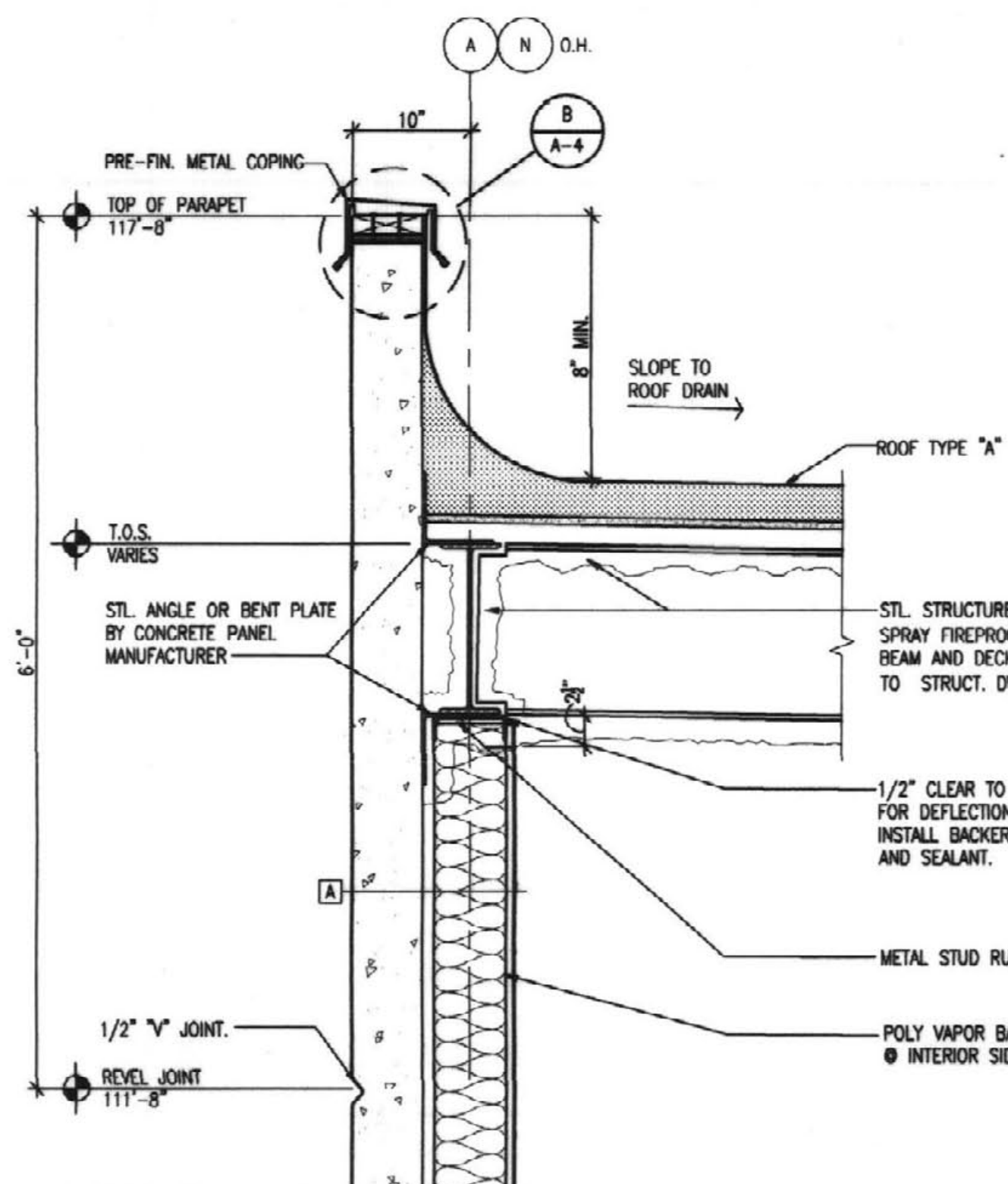
Revision table and project information including: JOB NO. 0146, DATE DECEMBER 14, 2001, DRAWN PWC, CHECKED T.M., IN, JDC, BKI, COPYRIGHT © 2001 SHERMAN / CARTER / BARNHART, PSC, REVISIONS table.



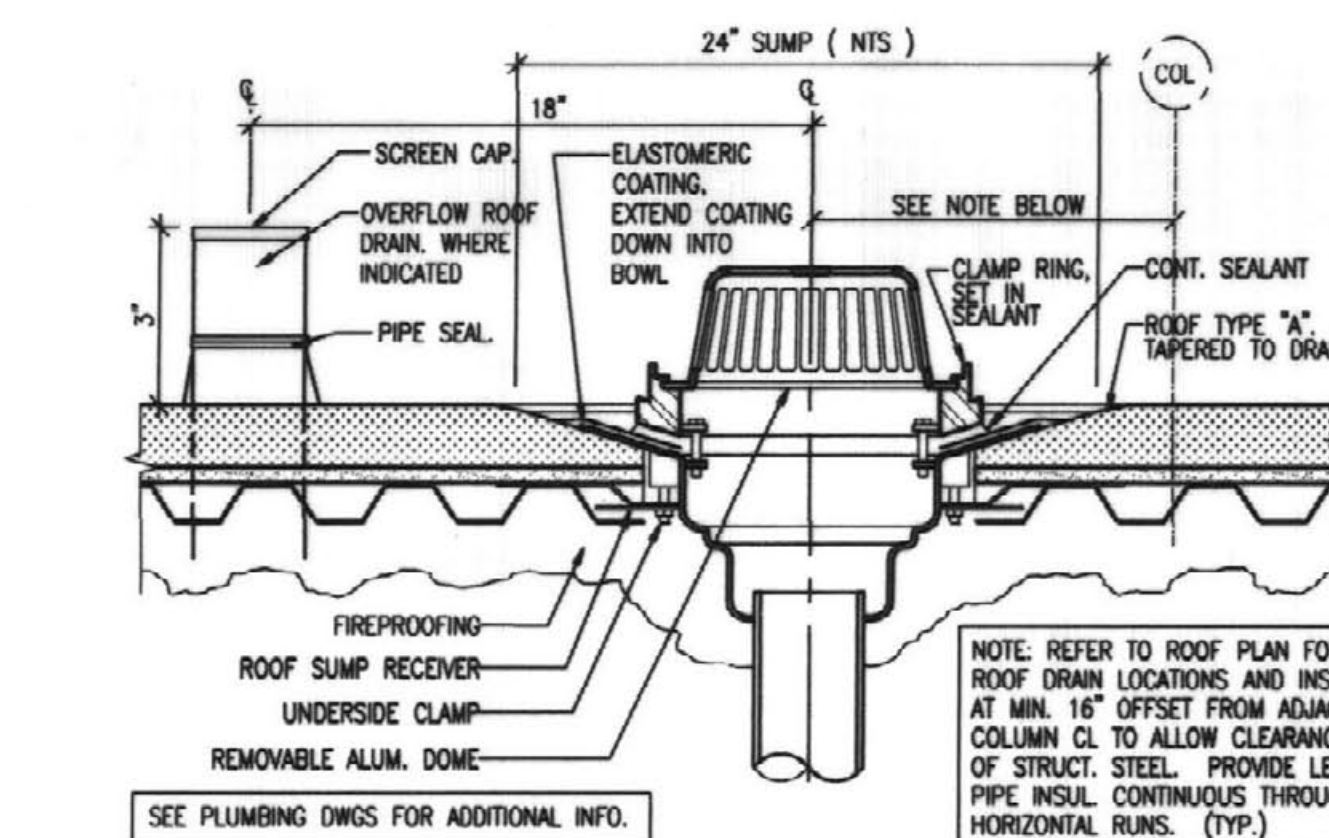
ROOF PLAN
1/8"=1'-0"



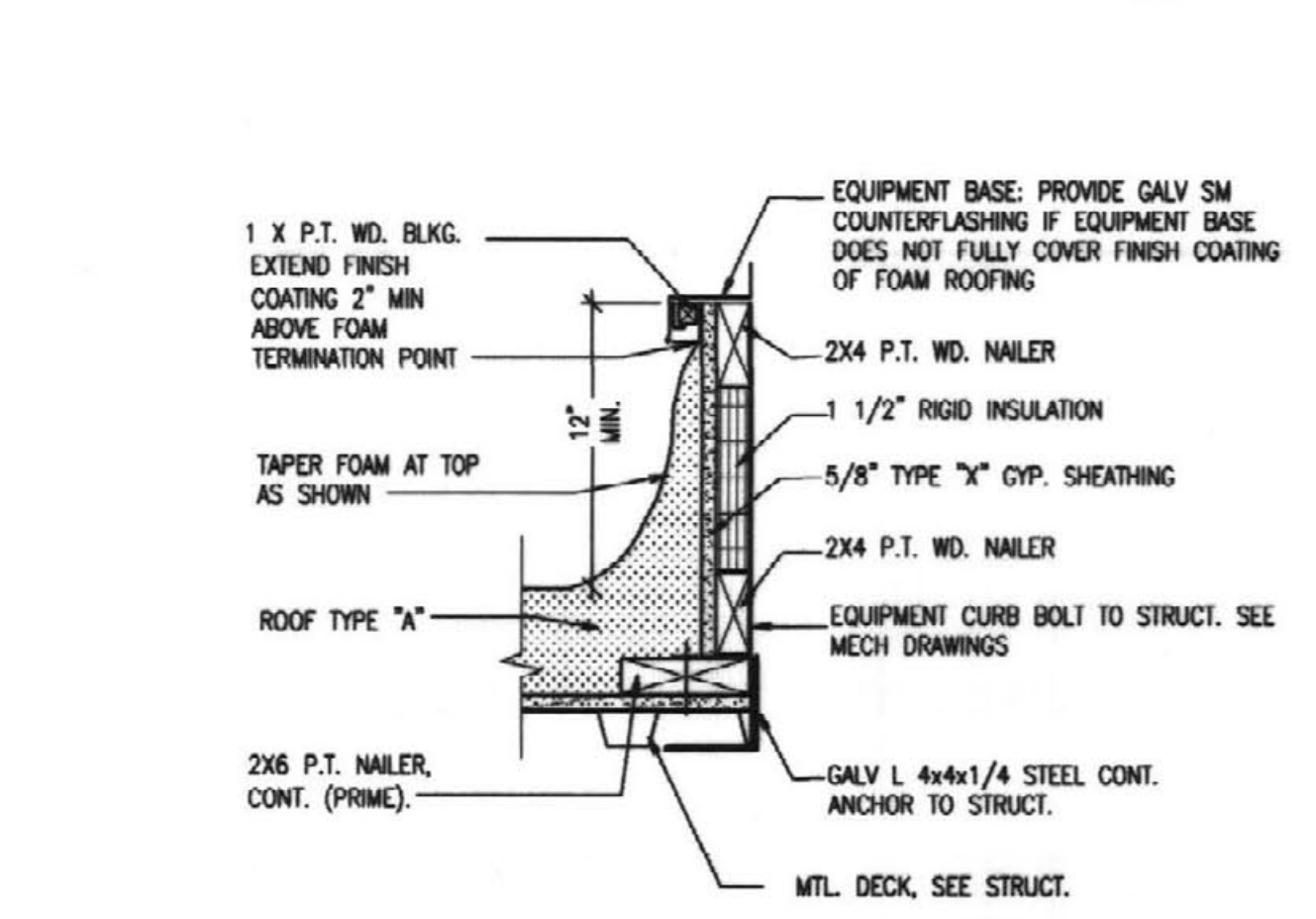
SECTION
1/2"=1'-0"



SECTION
1/2"=1'-0"

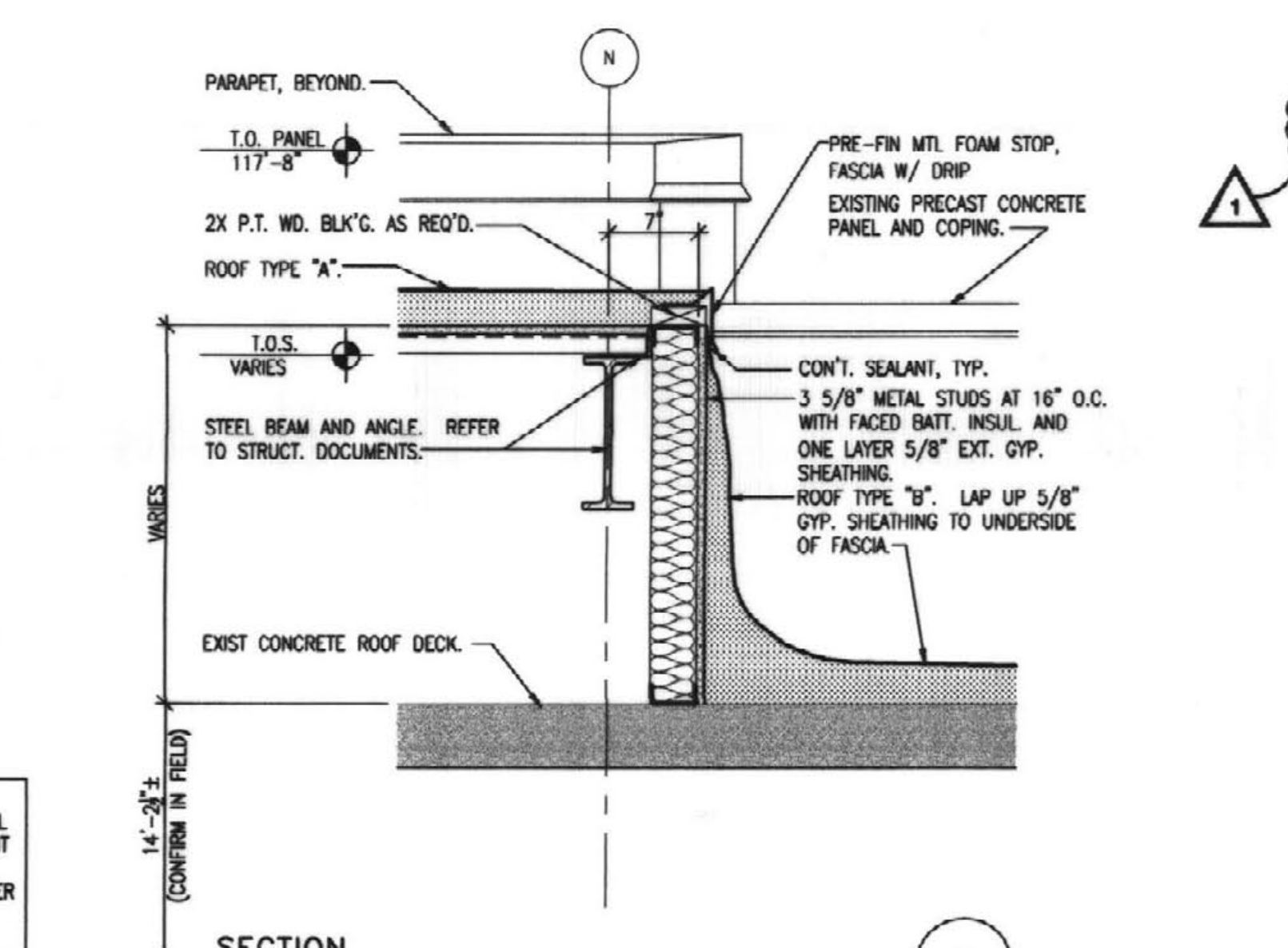


ROOF DRAIN DETAIL
1/2"=1'-0"

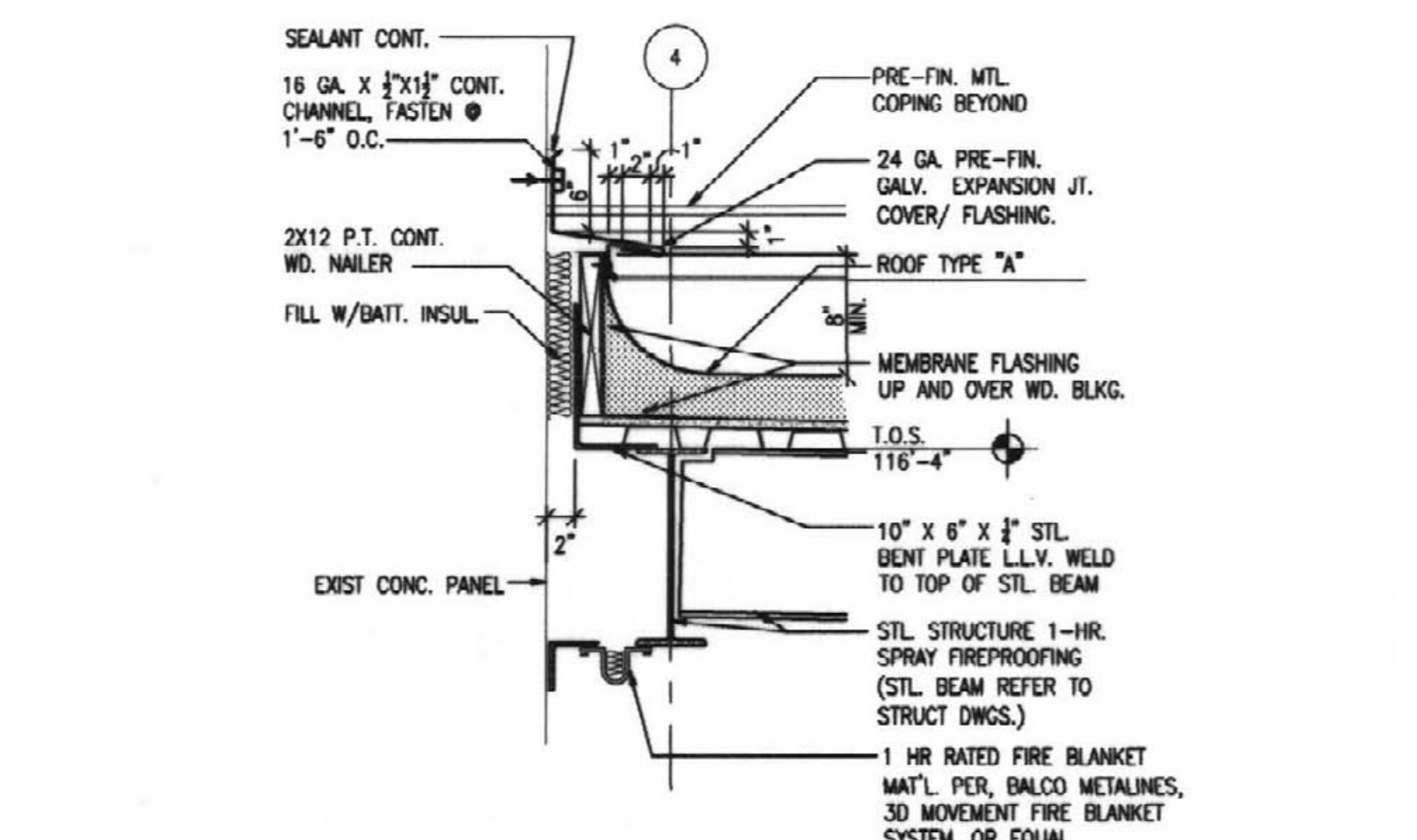


EQUIPMENT CURB DETAIL
1/2"=1'-0"

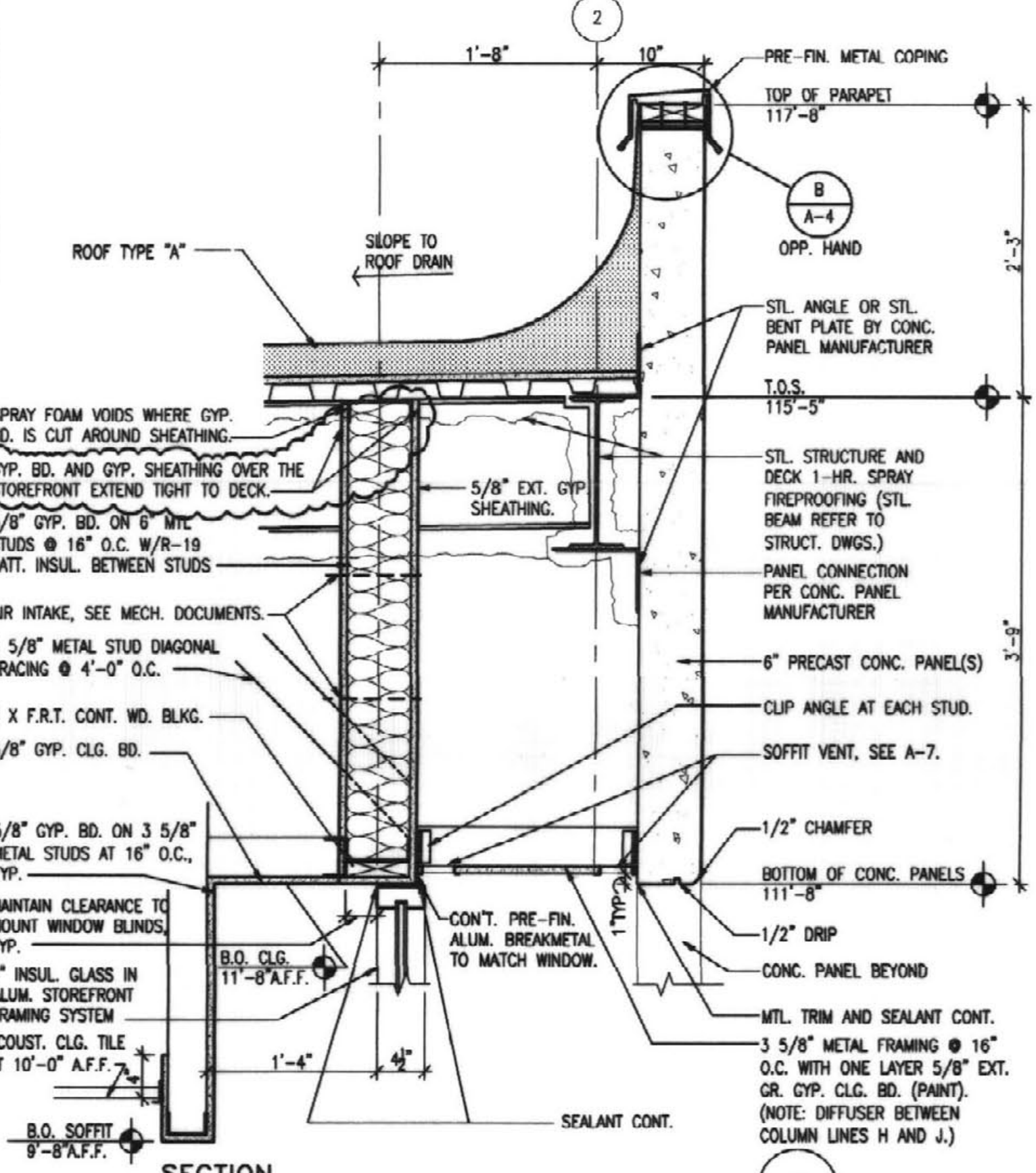
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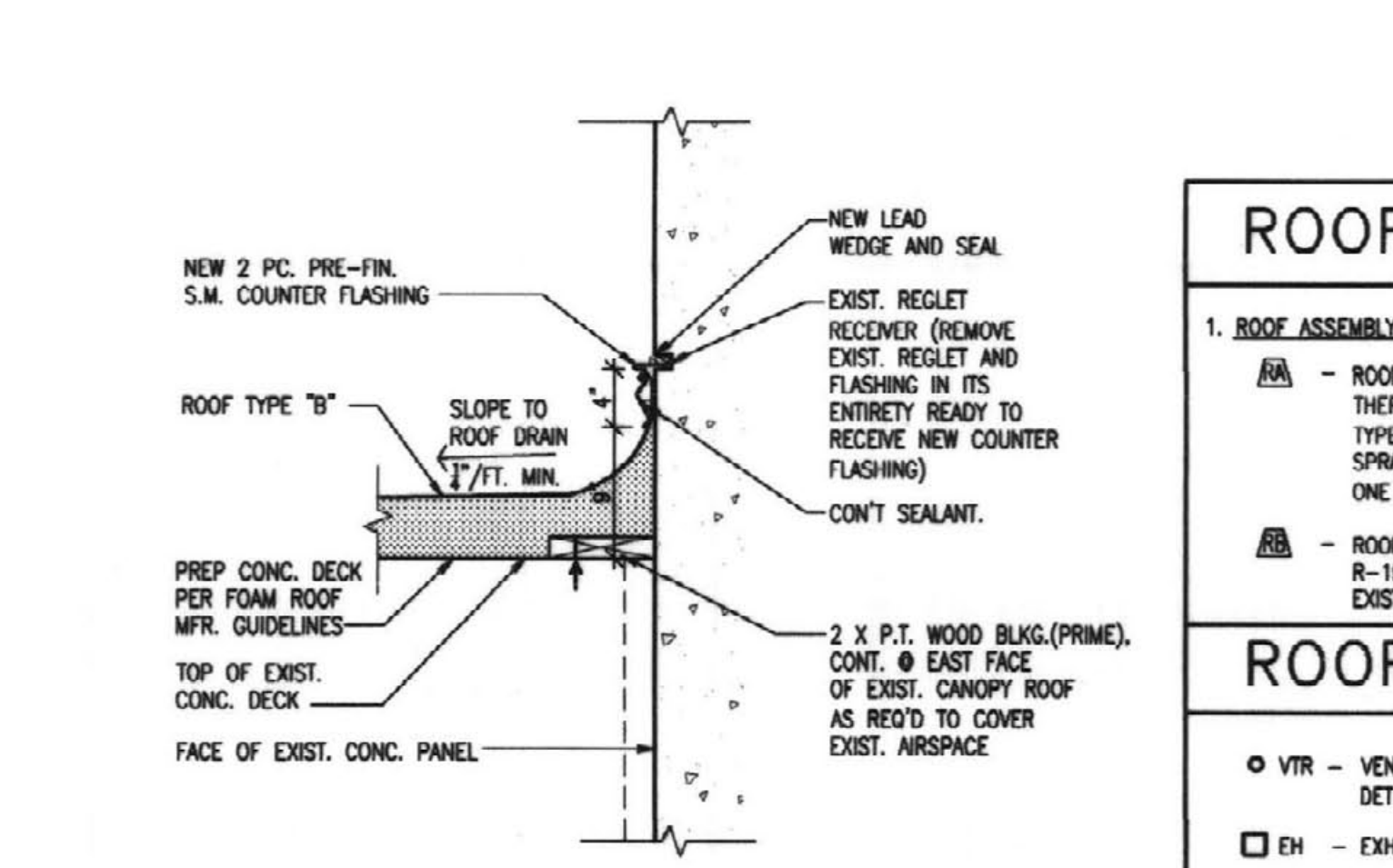
SECTION
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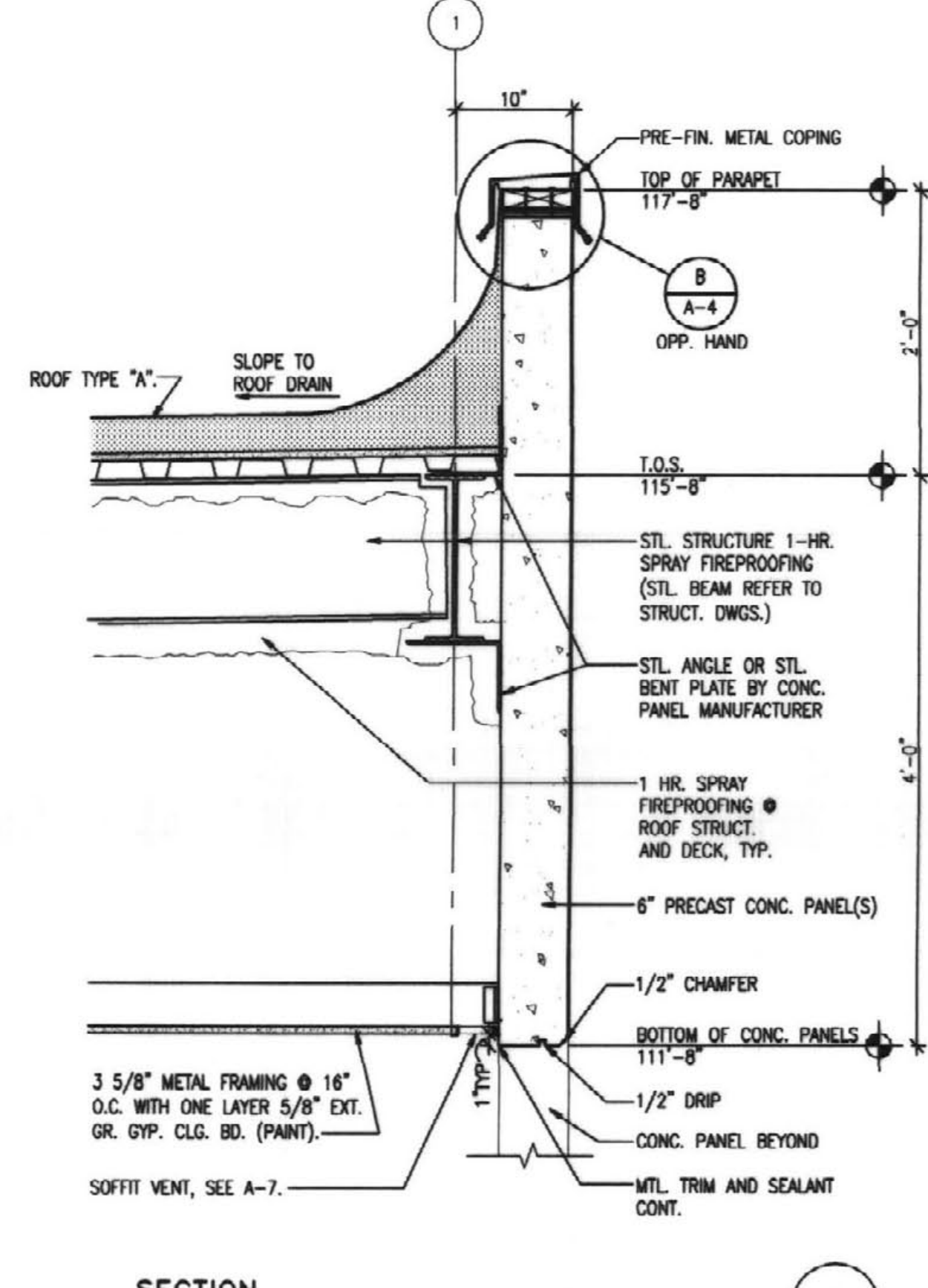
SECTION
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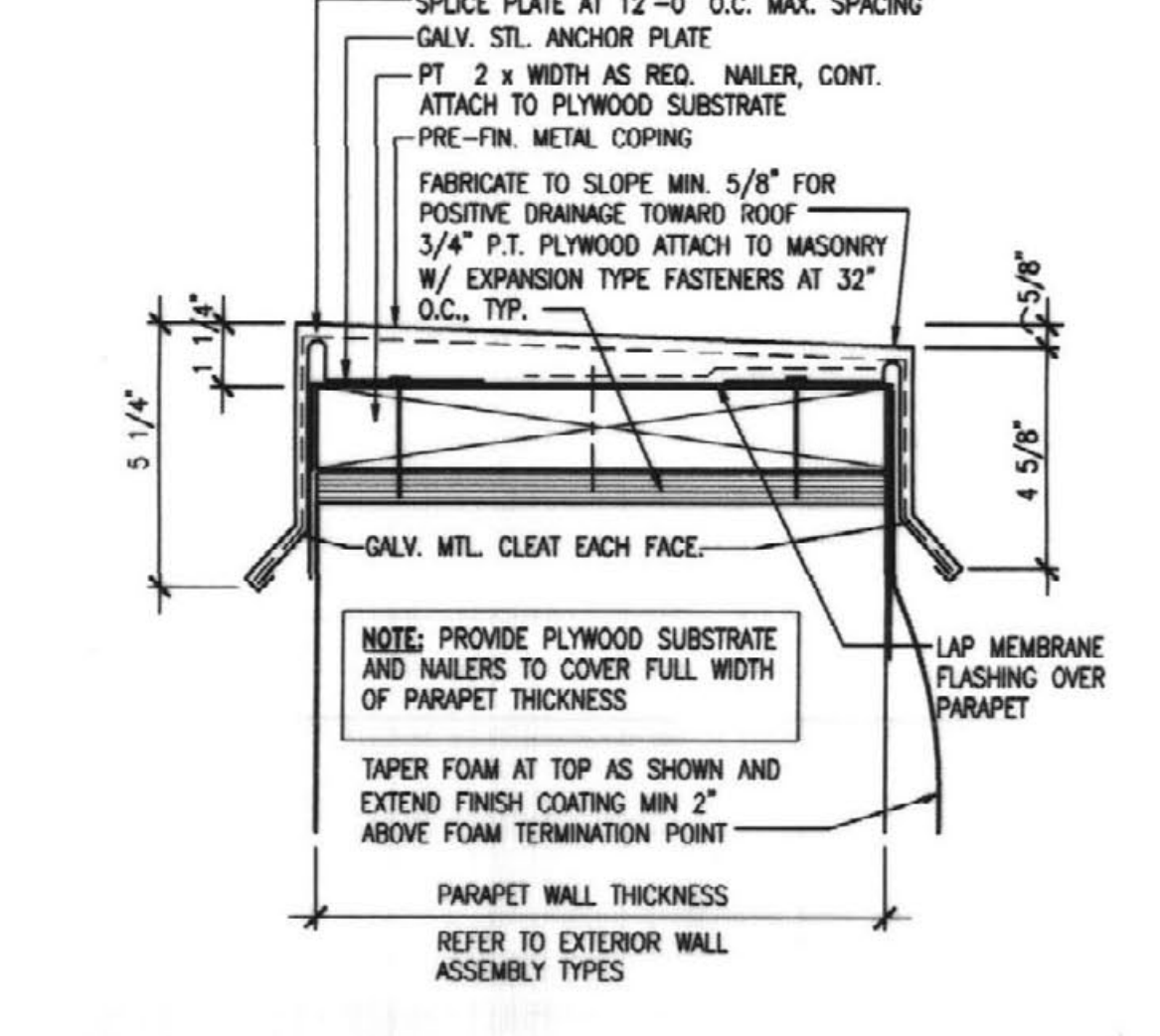
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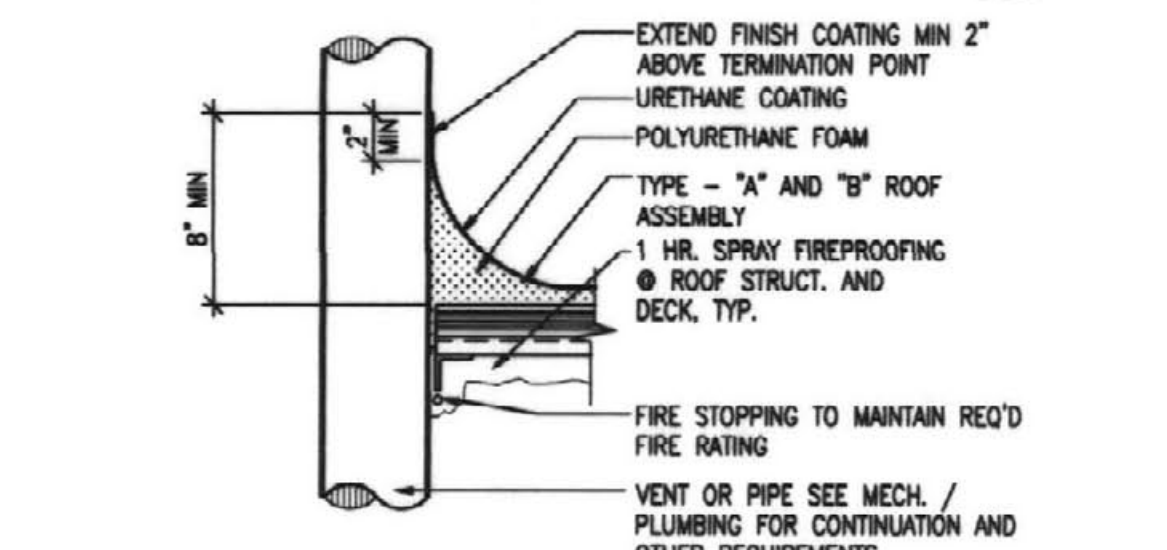
SECTION
1/2"=1'-0"



SECTION
1/2"=1'-0"



PRE-FIN. METAL COPING DETAIL
3/8"=1'-0"



TYP. PIPE PENETRATION DETAIL
1/2"=1'-0"

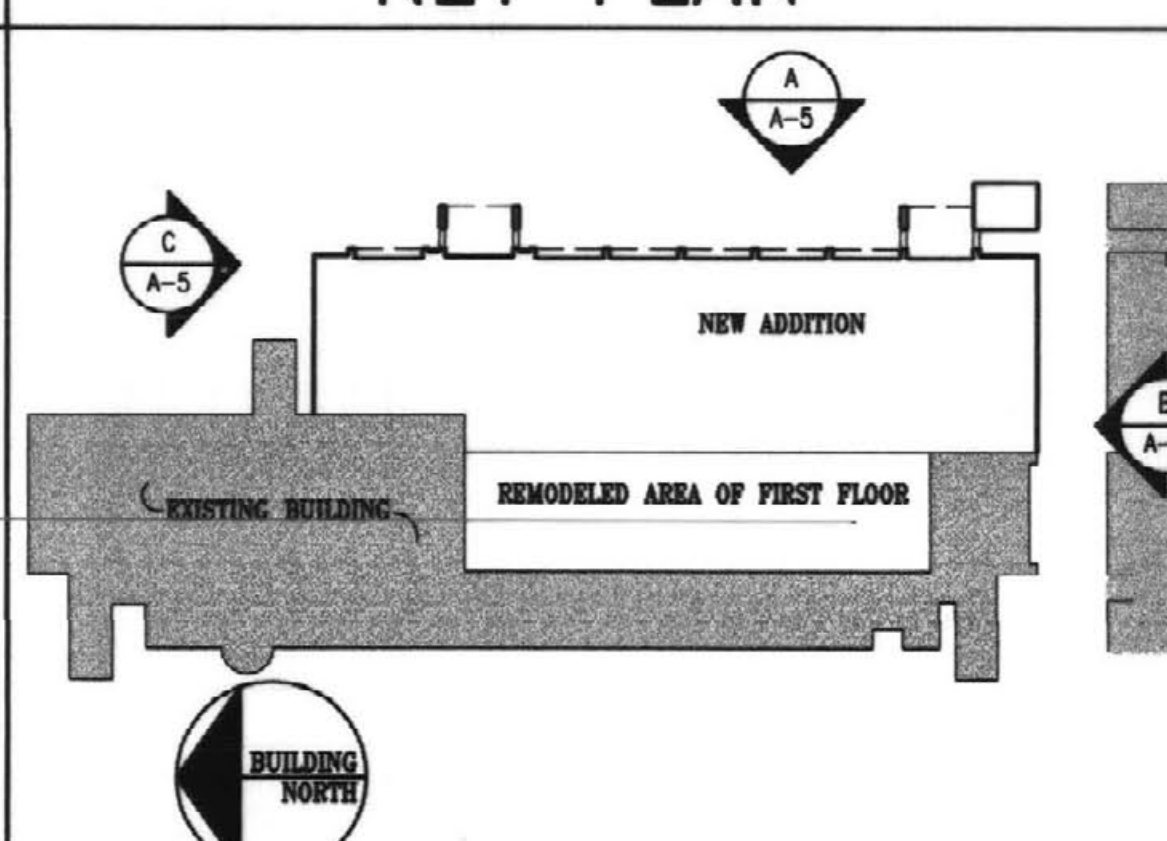
ROOF ASSEMBLY

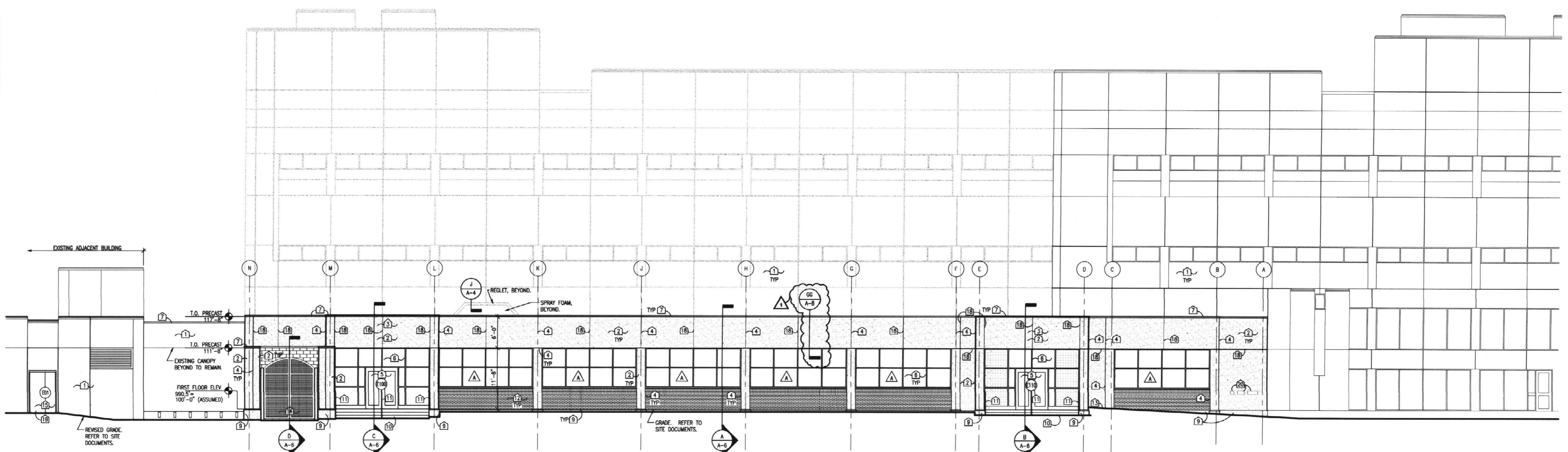
1. ROOF ASSEMBLY DESCRIPTIONS:
- ROOF TYPE 'A' - SPRAY FOAM ROOF SYSTEM, R-19 THERMAL DESIGN, MIN. 3.0 DENSITY FOAM, OVER 5/8" TYPE 'X' GYP/SHEATHING, OVER METAL DECK. SPRAY FIRE PROOFED UNDERSIDE METAL DECK AND BEAM. ONE HOUR RATED ASSEMBLY UL DESIGN #P701.
 - ROOF TYPE 'B' - SPRAY FOAM ROOF SYSTEM, R-19 THERMAL DESIGN, MIN. 3.0 DENSITY FOAM, OVER 5/8" TYPE 'X' GYP/SHEATHING, OVER METAL DECK. SPRAY FIRE PROOFED UNDERSIDE METAL DECK AND BEAM. ONE HOUR RATED ASSEMBLY UL DESIGN #P701.
- ROOF LEGEND
- VTR - VENT THRU ROOF. SEE PLUMBING DWG. AND DET. C/A-4.
 - EH - EXHAUST HOOD. SEE MECH. DWG.
 - RD - ROOF DRAIN W/ OVERFLOW DRAIN. SEE DETAIL L/A-4.
 - INDICATES CRICKET, 1/8" FT. SLOPE, MIN.

KEYNOTES

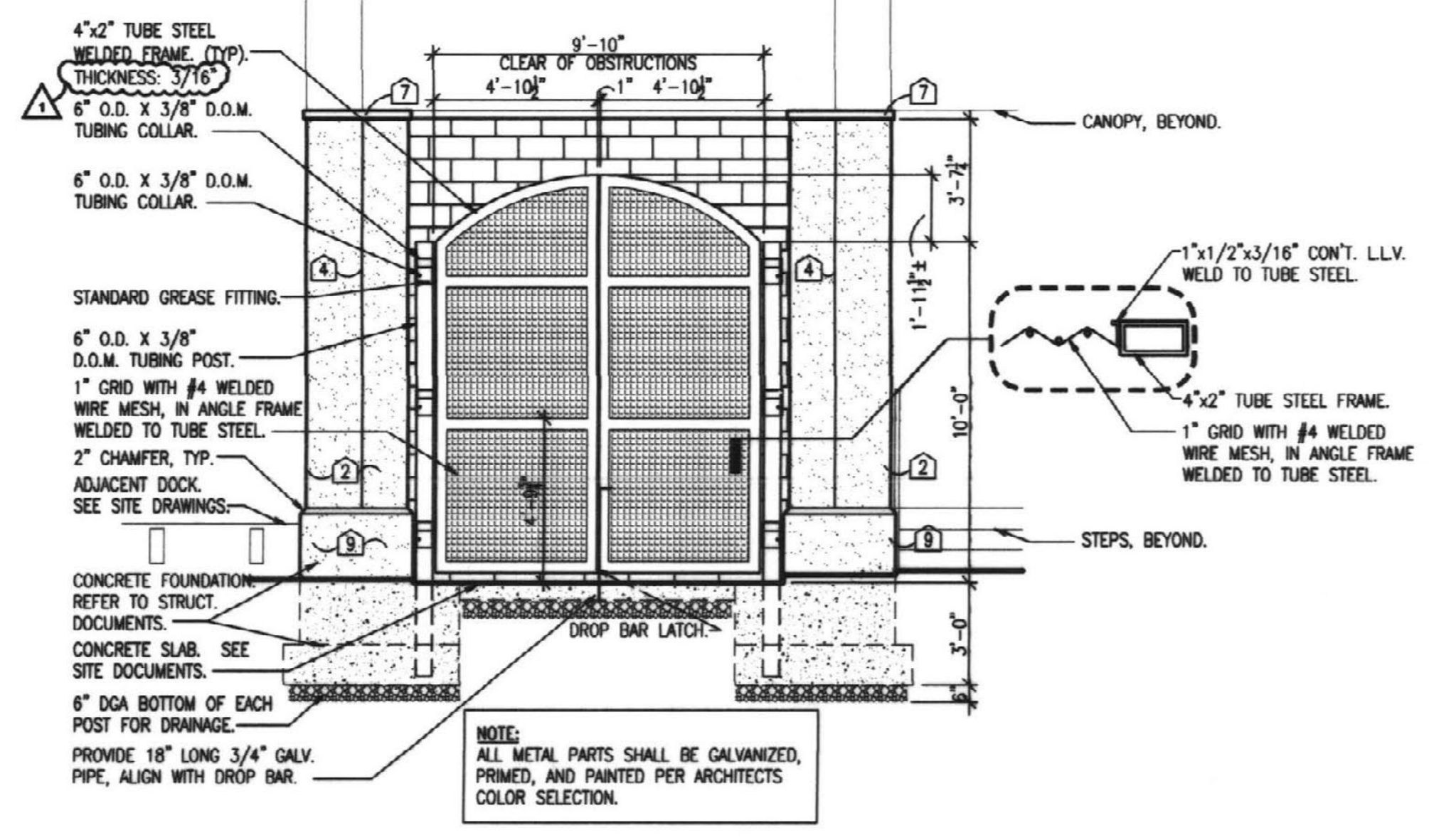
- PRE-FINISHED METAL COPING, SEE DET. B/A-4.
 - EXPANSION JOINT COVER, SEE DET. G/A-4.
 - NEW ROOF DRAIN (REFER TO PLUMBING DWGS.) AT SAME LOCATION WHERE EXISTING ROOF DRAINS WERE REMOVED.
 - NEW OVERFLOW DRAIN (REFER TO PLUMBING DWGS.) CORE DRILL EXISTING CONC. STRUCTURE AS REQ'D TO ACCEPT NEW OVERFLOW DRAIN.
 - PRE-FINISHED METAL FASCIA W/ DRIP.
- NOTE: SPRAY FIRE PROOFED UNDERSIDE METAL DECK AND BEAM. ONE HOUR RATED ASSEMBLY UL DESIGN #P701.

KEY PLAN

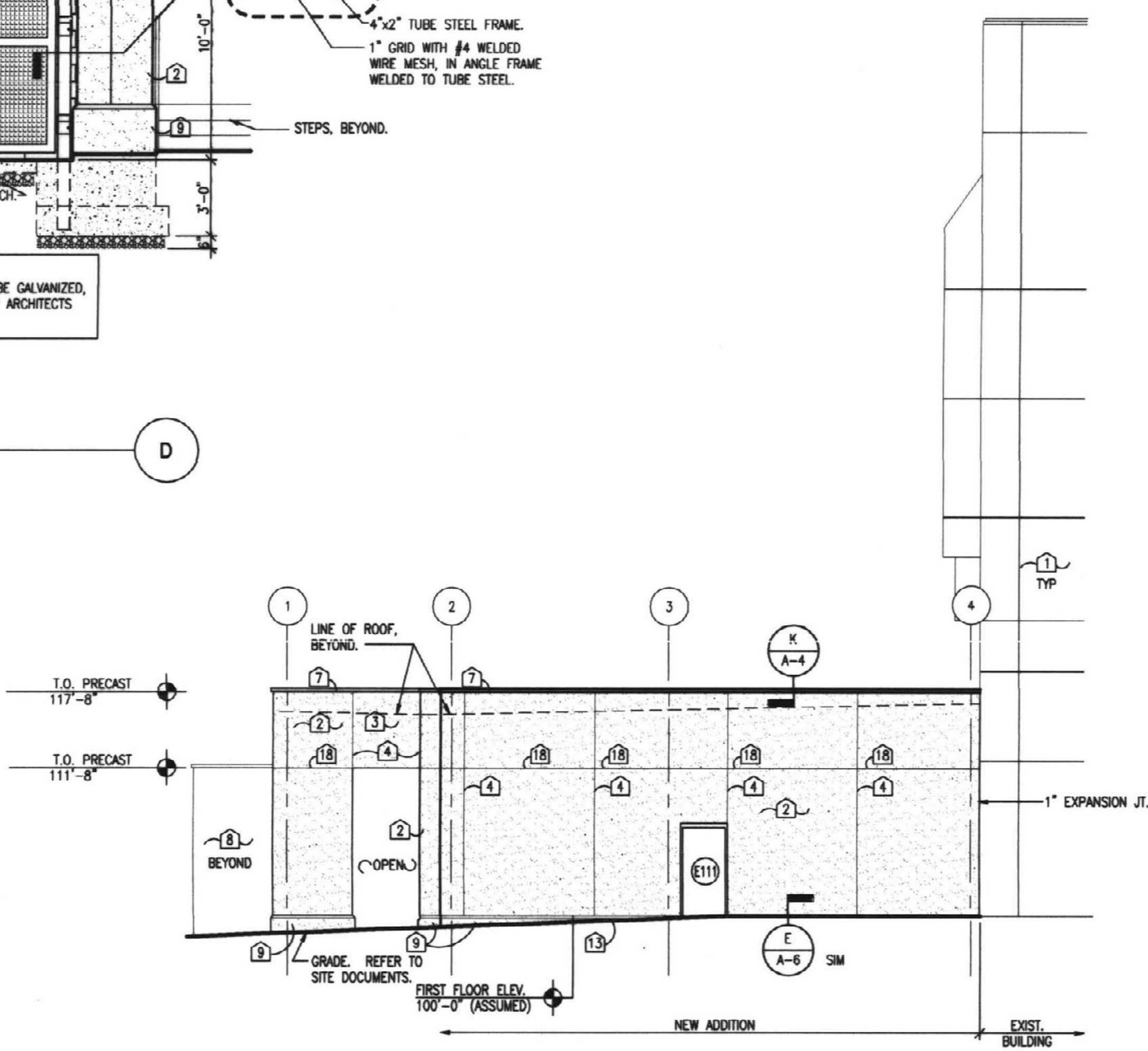




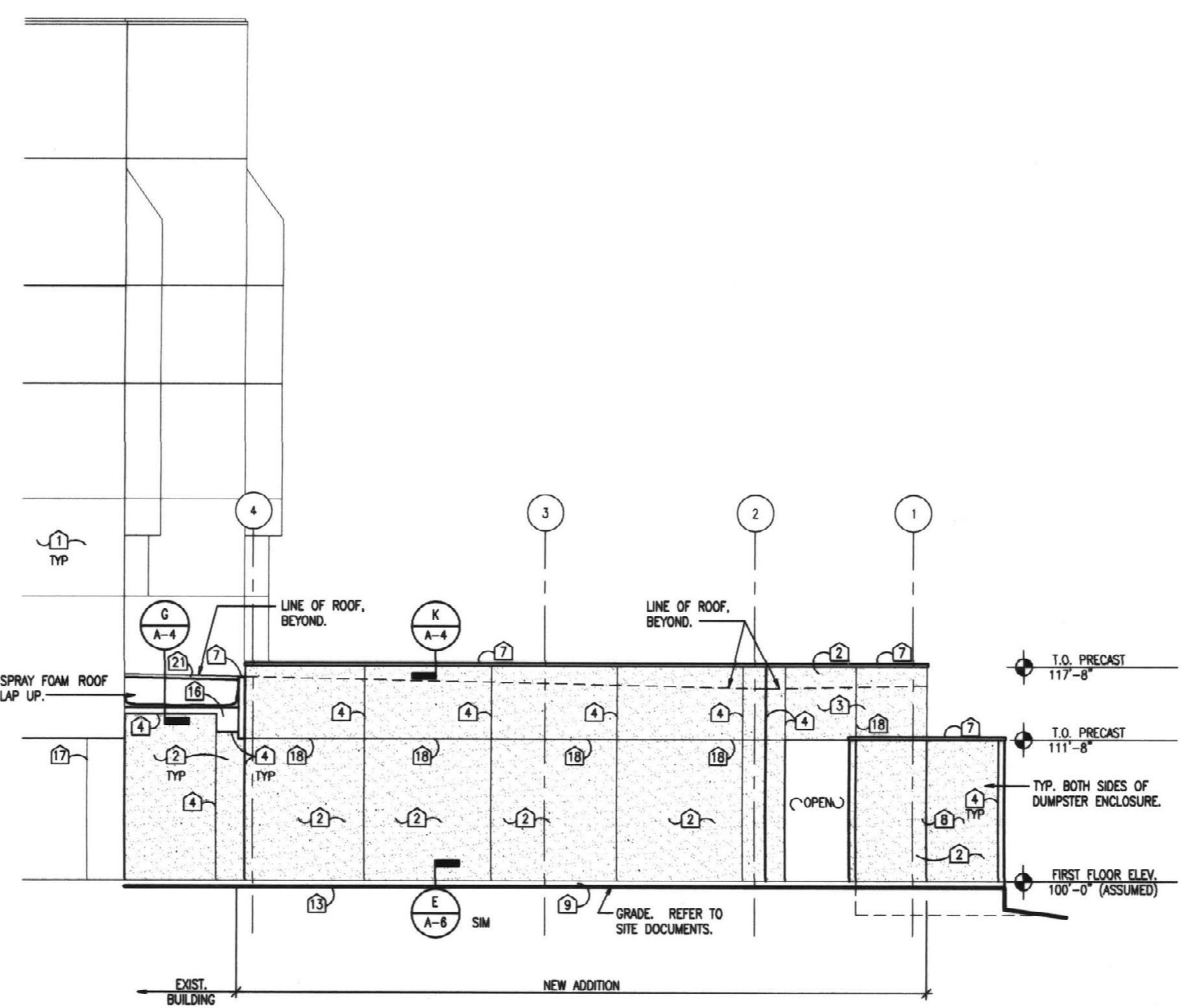
EAST ELEVATION
1/8"=1'-0"



DUMPSTER GATE ELEVATION
1/4"=1'-0"



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



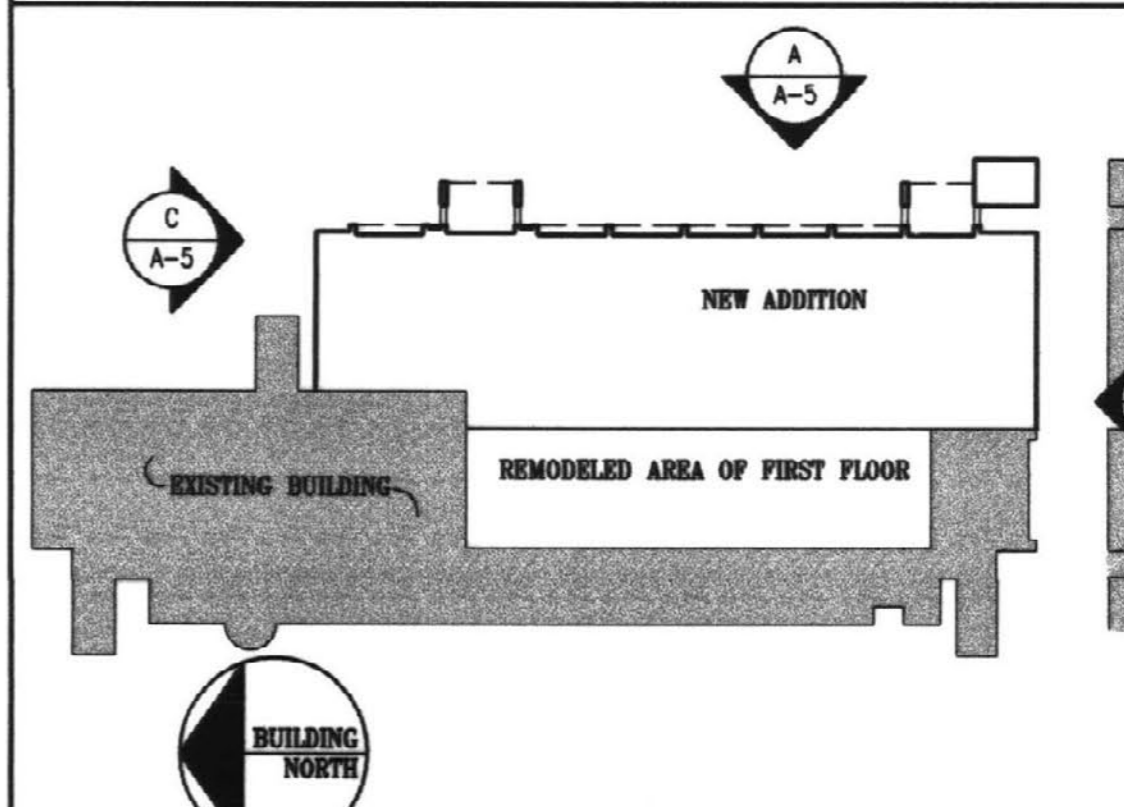
SOUTH ELEVATION
1/8"=1'-0"

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ELEVATION KEYNOTES

- EXISTING BUILDING.
- CONCRETE PANELS (CLEAN AND RE-USE EXISTING CONCRETE PANELS. ORDER NEW CONCRETE PANELS AS REQ'D - MATCH COLOR AND TEXTURE OF EXISTING).
- CANOPY.
- TYP. CONC. PANEL CONSTRUCTION JOINTS. SEE B2/A-8.
- ALUMINUM DOORS.
- ALUMINUM STOREFRONT SYSTEM.
- PRE-FIN. METAL COPING.
- DUMPSTER ENCLOSURE.
- EXPOSED CONC. (RUBBED FINISH).
- CONCRETE STEPS. SEE SITE DWGS.
- STEEL HANDRAIL. SEE SITE DWGS.
- BRICK VENEER.
- CONCRETE WALK. SEE SITE DWGS.
- STEEL GATE. SEE D/A-5.
- H.M. DOOR.
- EXISTING COLUMN.
- EXISTING CANOPY.
- TYP. CONC. PANEL SCORE JOINT. SEE B2/A-8.
- DOOR ED1 AT ADJACENT BUILDING TO BE MODIFIED. REFER TO DOOR SCHEDULE.
- FIRE DEPARTMENT CONNECTIONS. REFER TO FIRE PROTECTION DWGS.
- PRE-FINISHED METAL FASCIA WITH DRIP.

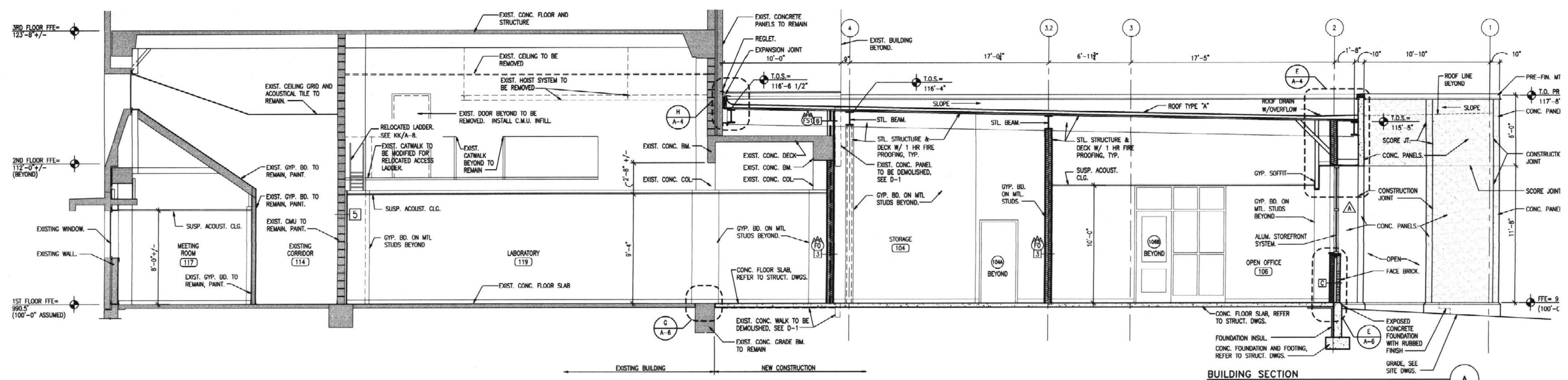
KEY PLAN



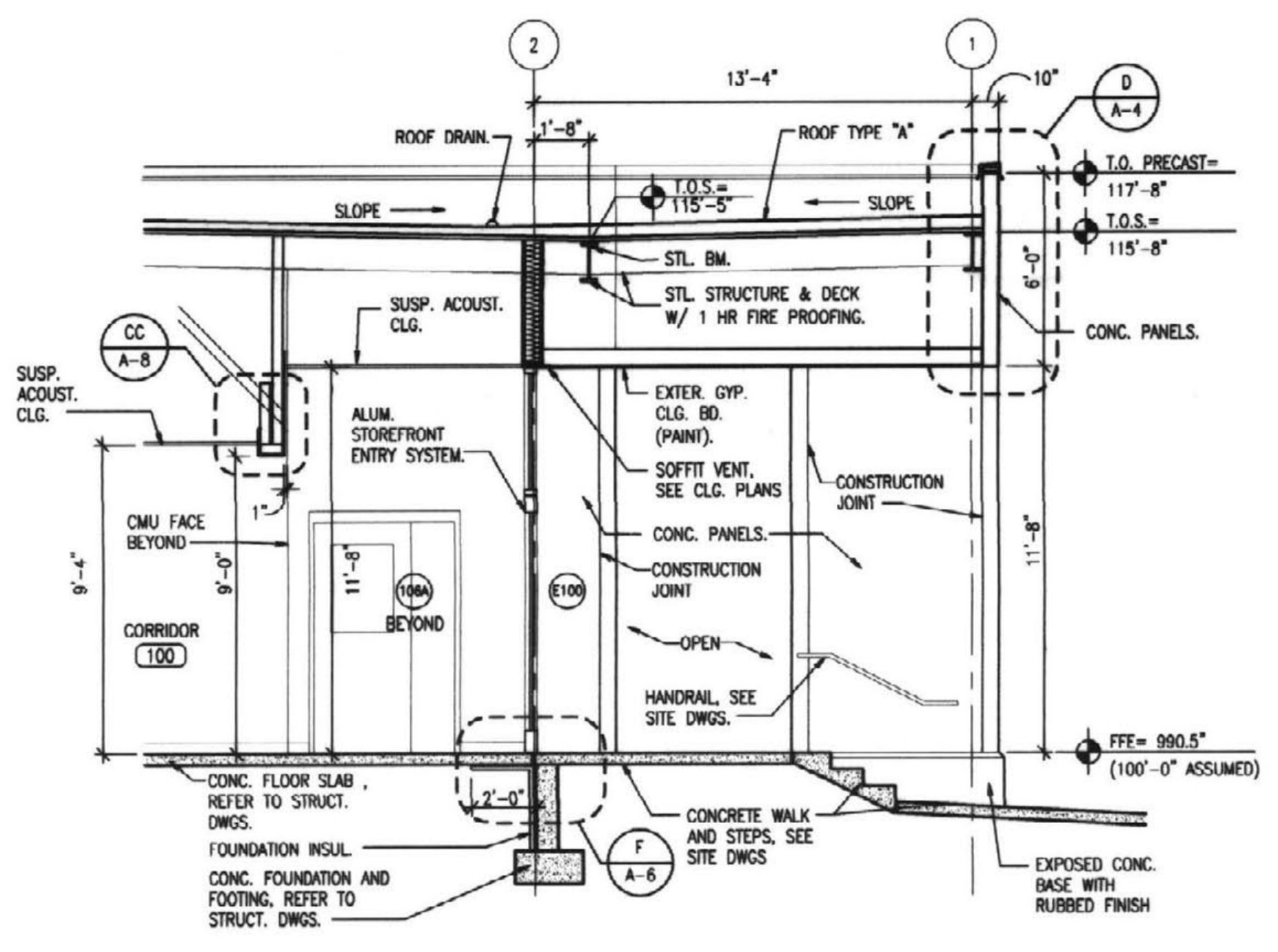
JOB NO. 0146
DATE DECEMBER 14, 2001
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REVISIONS
1. ADDENDUM #1

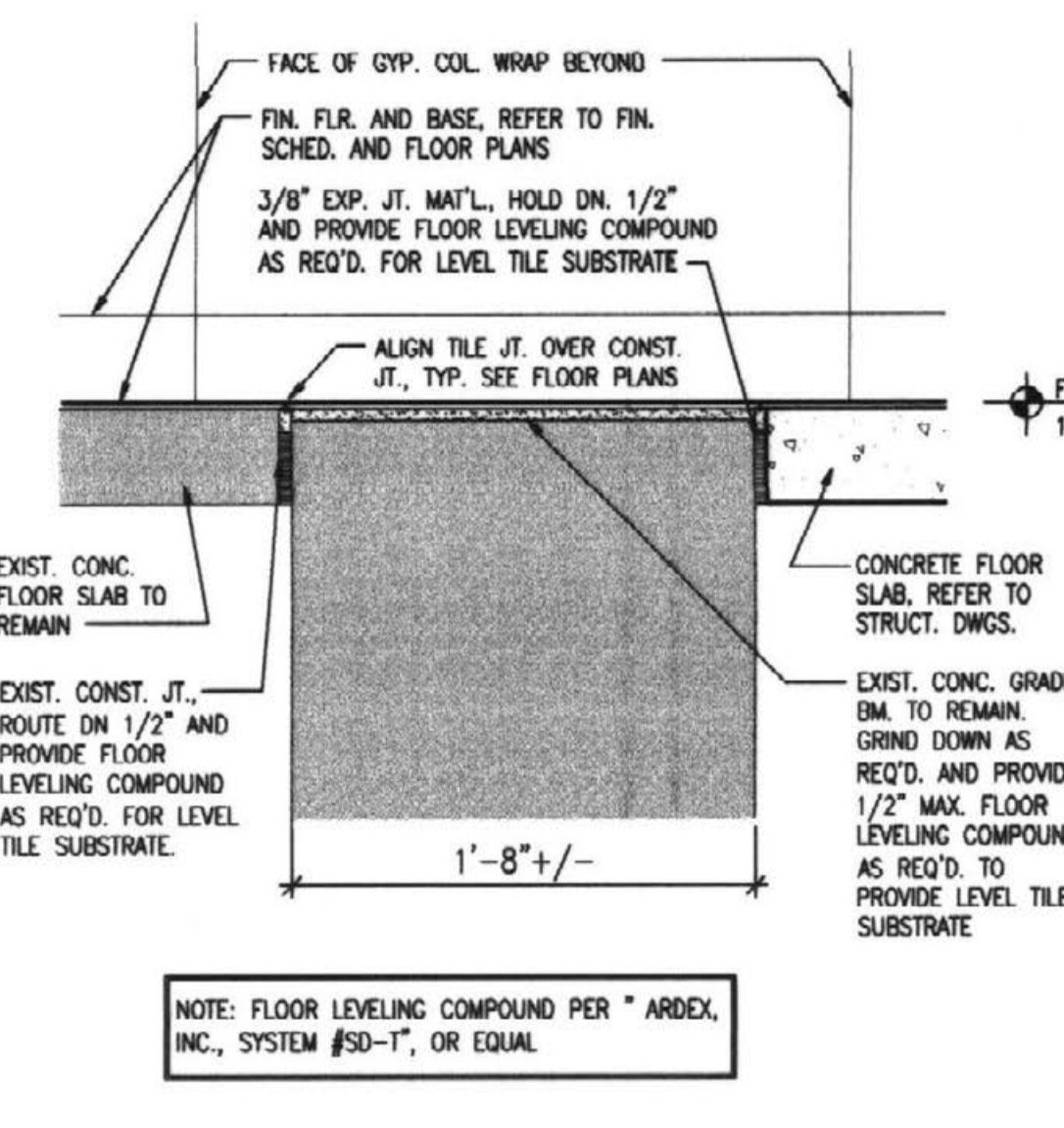
SHEET
A-5



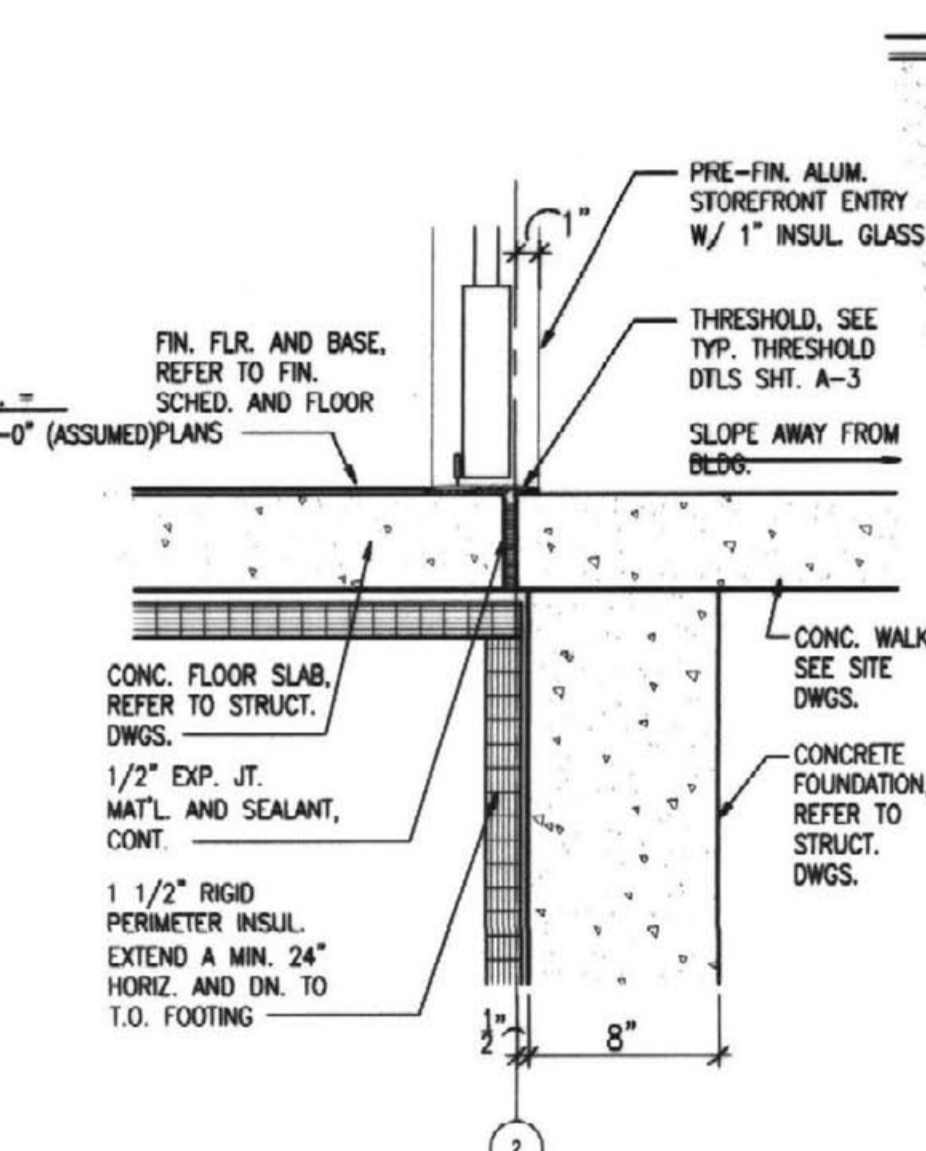
BUILDING SECTION
1/4"=1'-0"



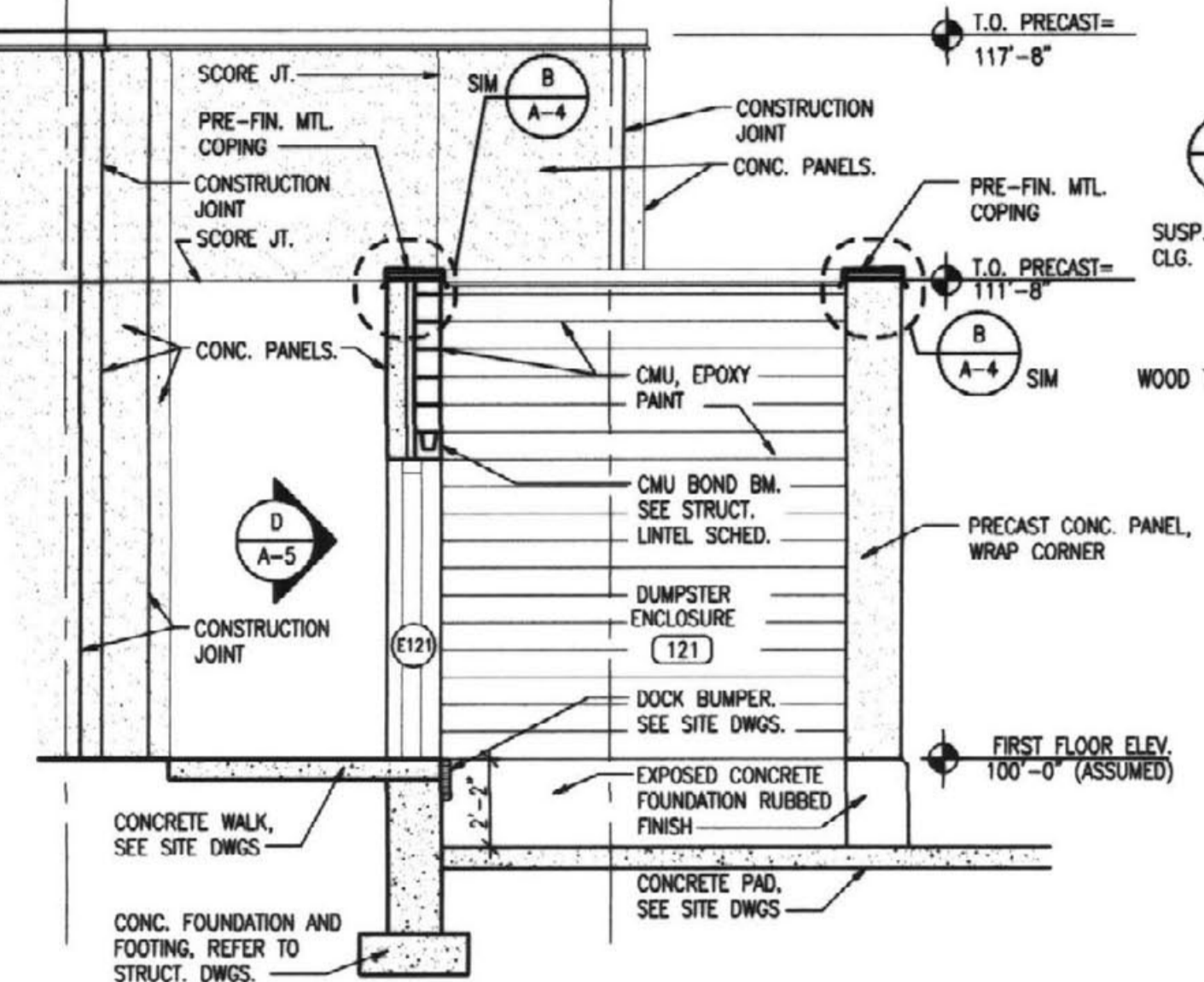
PARTIAL BUILDING SECTION
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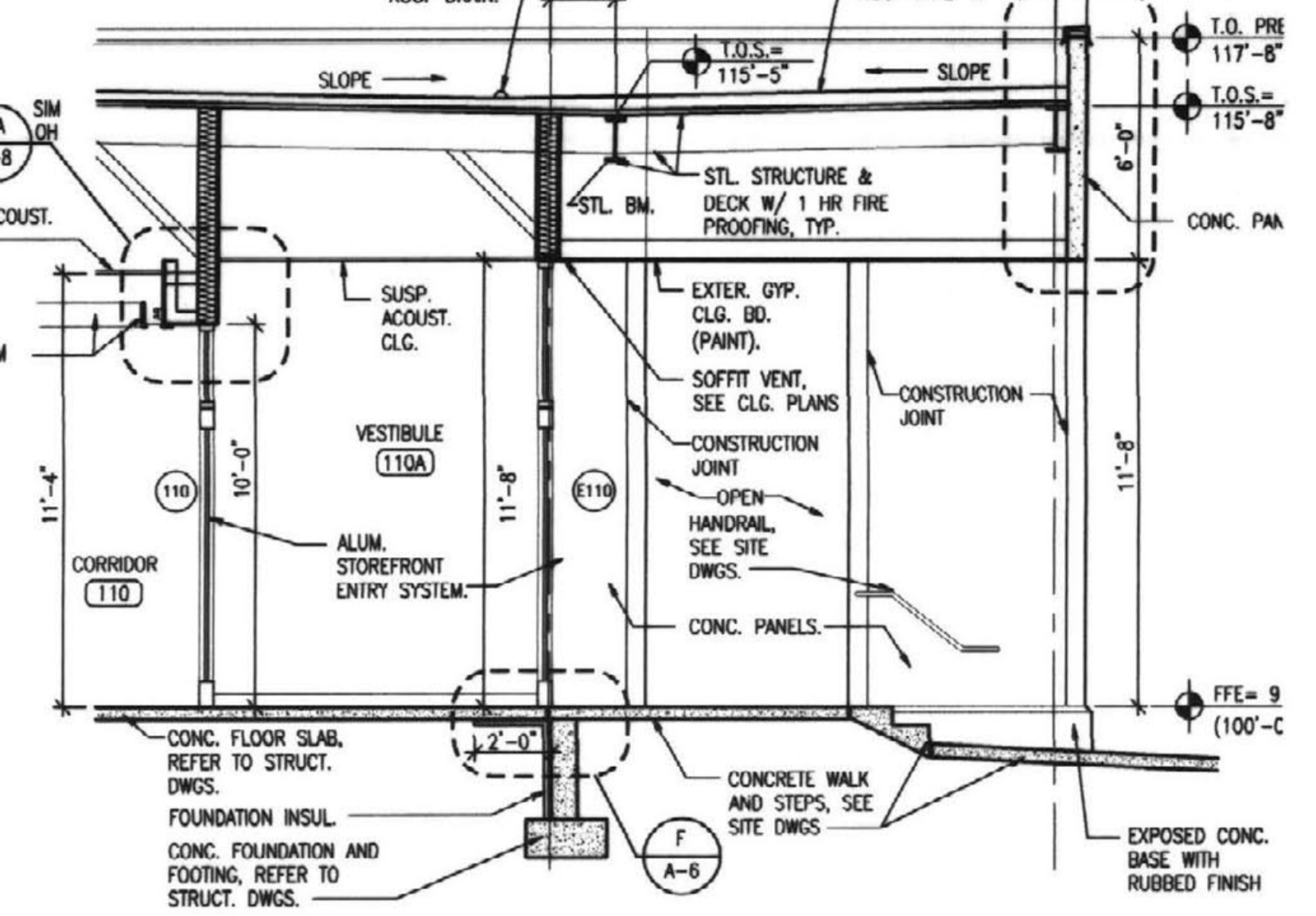
DETAIL SECTION
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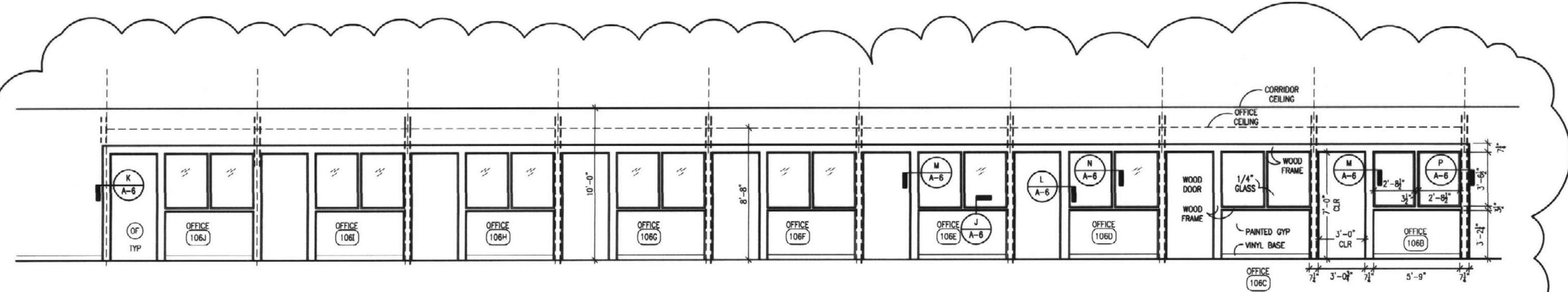
DETAIL SECTION
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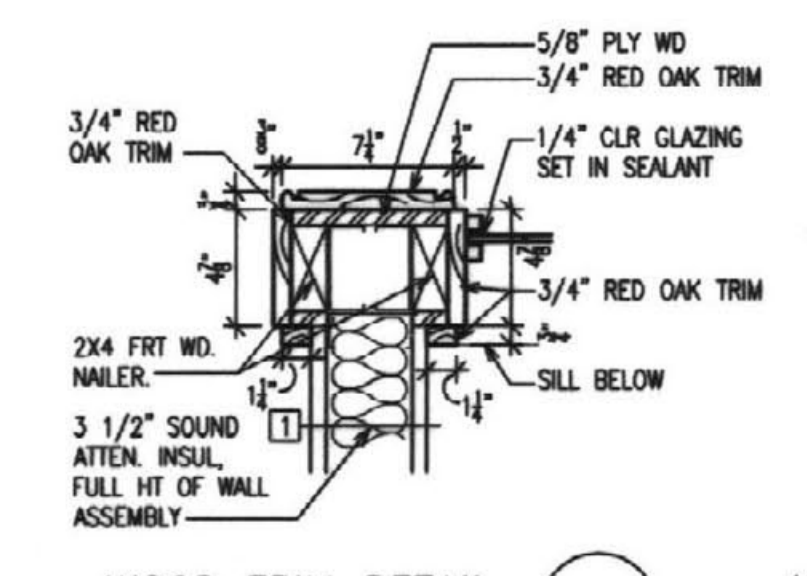
DUMPSTER ENCLOSURE SECTION
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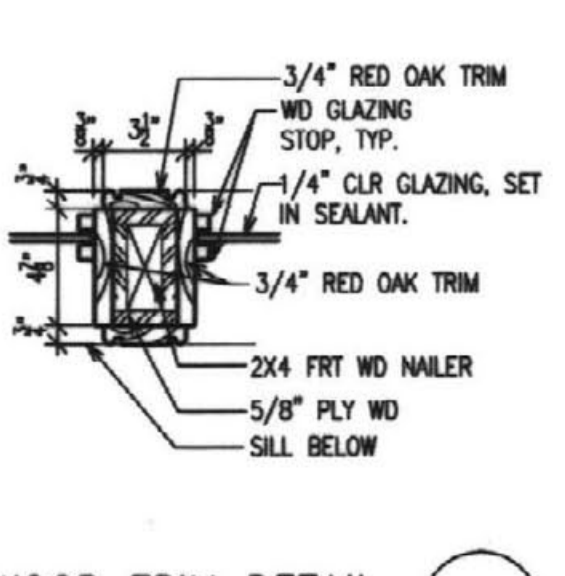
PARTIAL BUILDING SECTION
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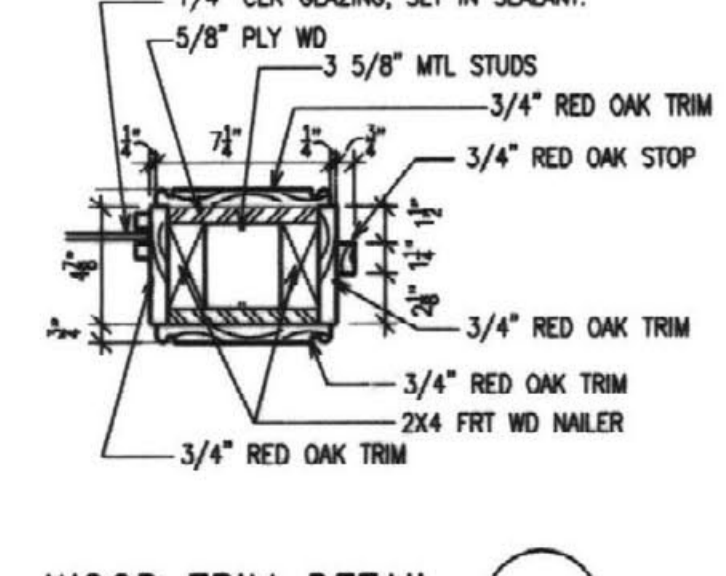
WOOD TRIM ELEVATION
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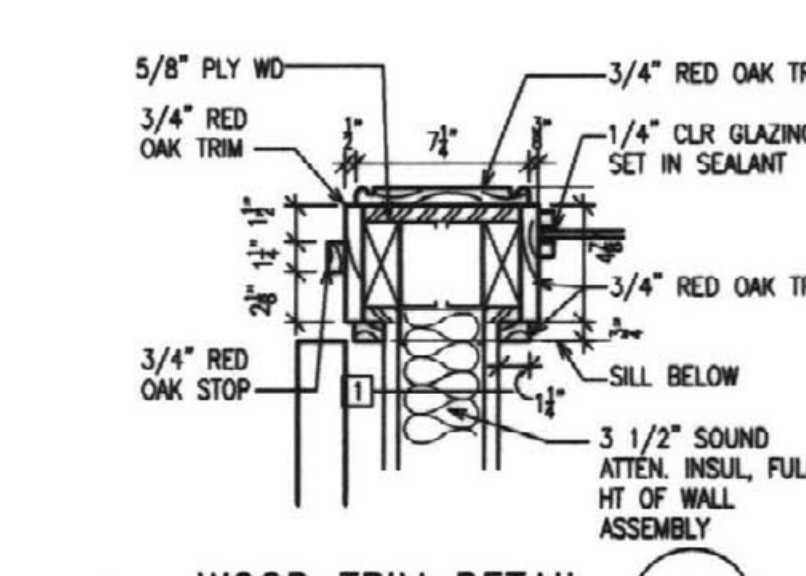
WOOD TRIM DETAIL E
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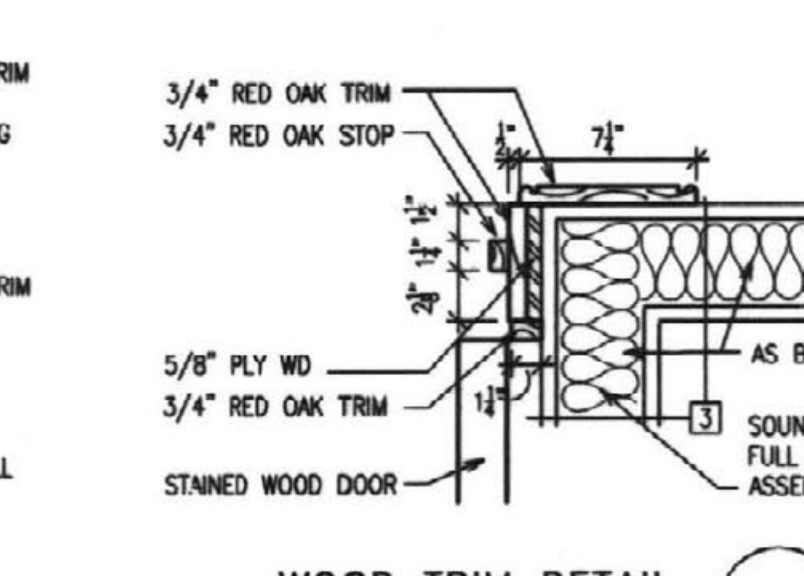
WOOD TRIM DETAIL N
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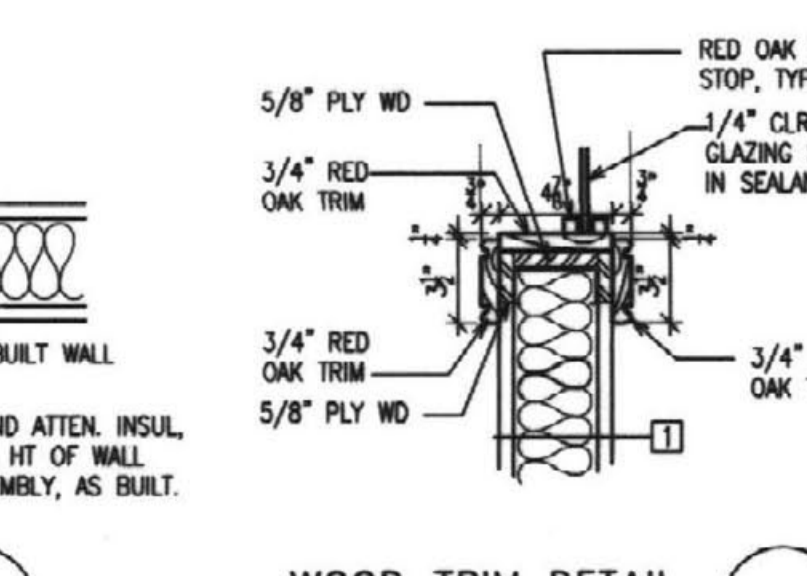
WOOD TRIM DETAIL M
1 1/2"=1'-0"



WOOD TRIM DETAIL L
1 1/2"=1'-0"

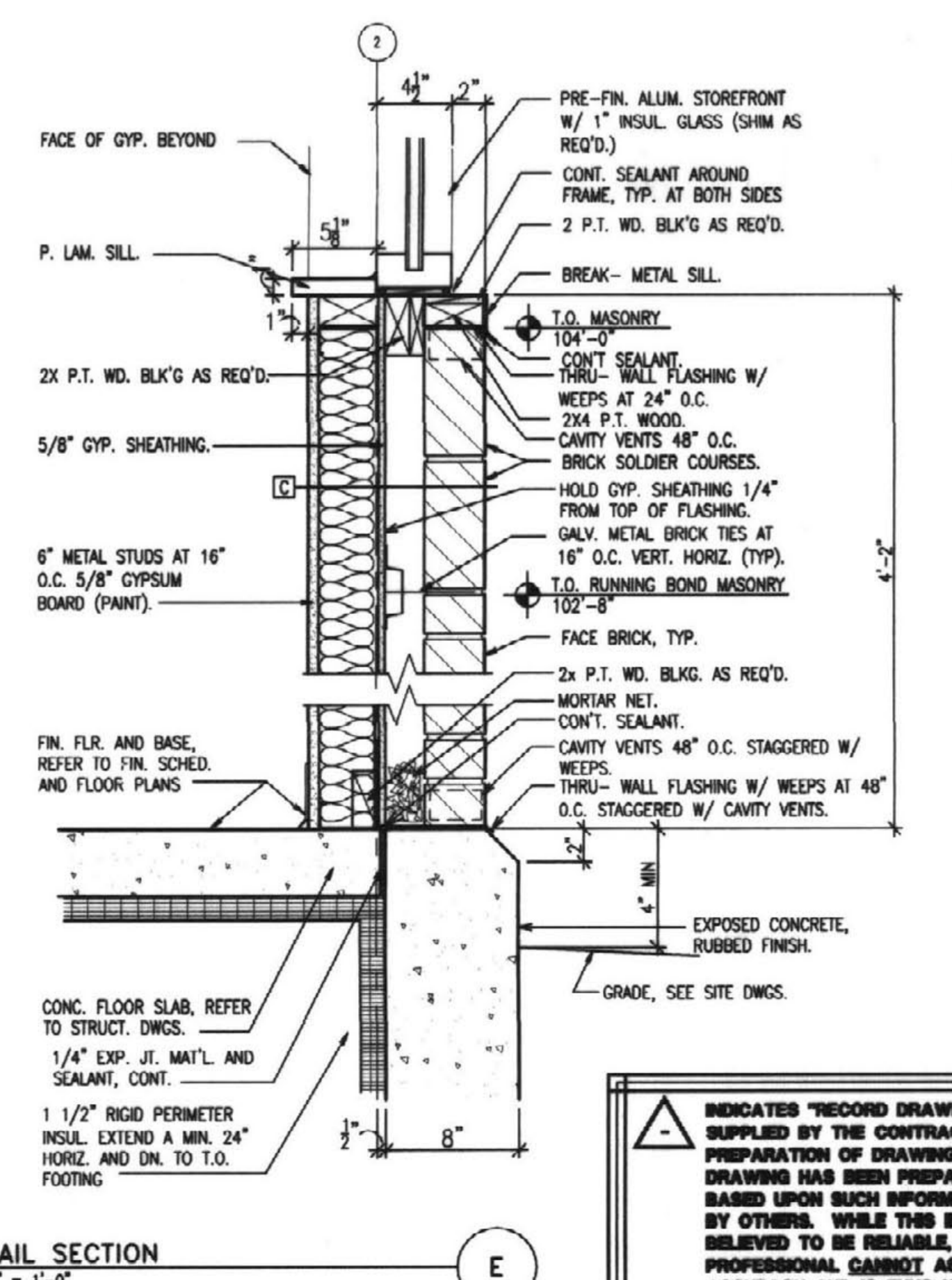


WOOD TRIM DETAIL K
1 1/2"=1'-0"



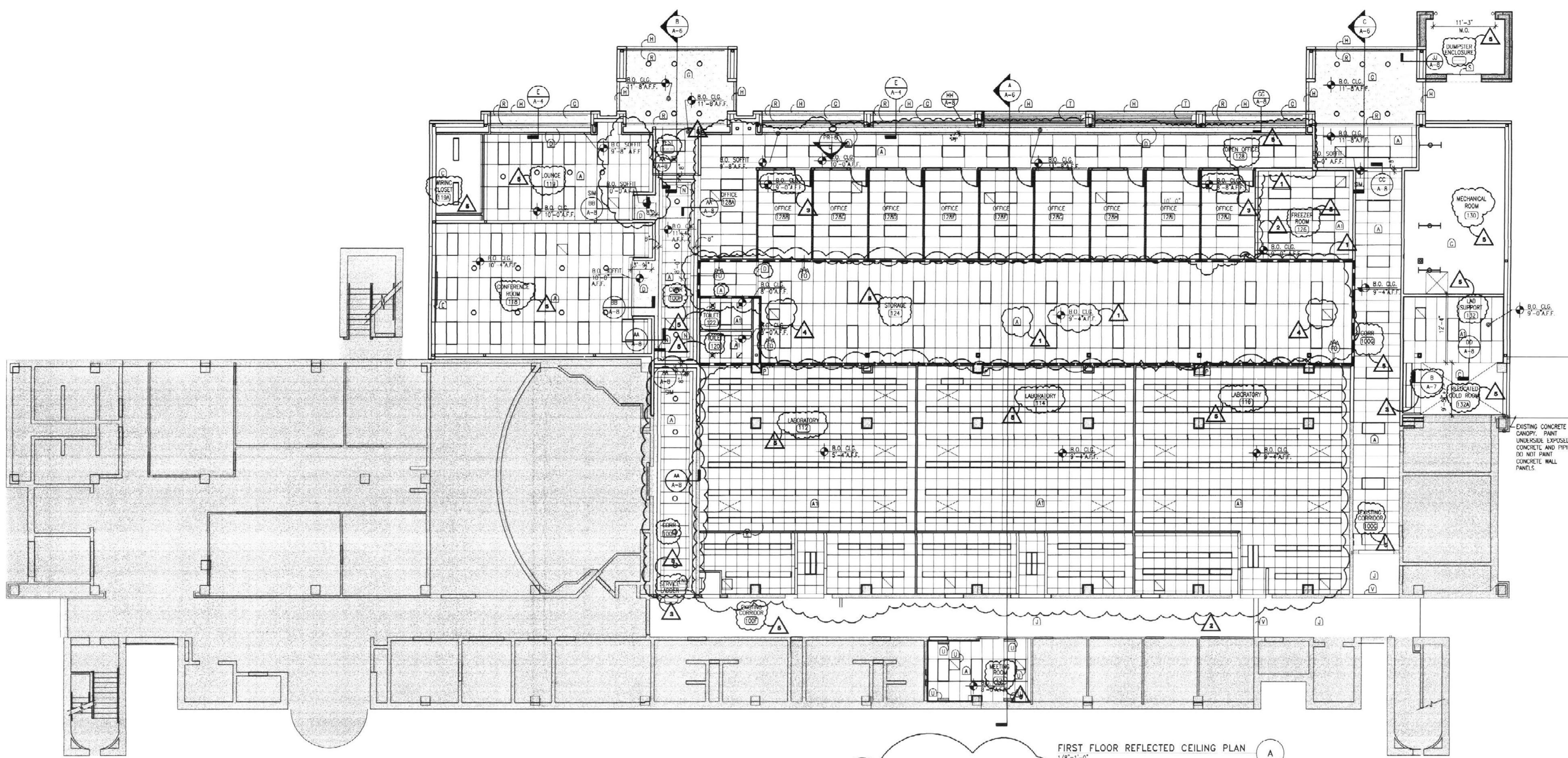
WOOD TRIM DETAIL J
1 1/2"=1'-0"

GENERAL NOTE: ALL WOOD TRIM STAINED

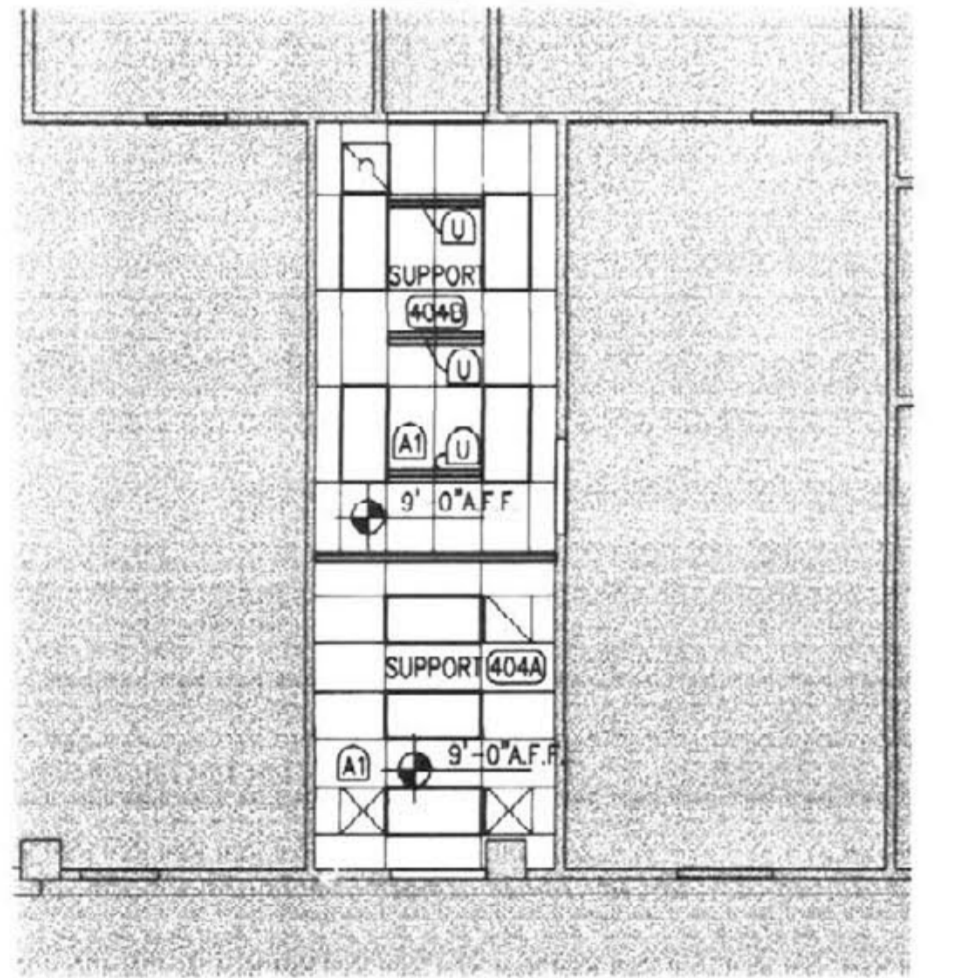


DETAIL SECTION
1 1/2"=1'-0"

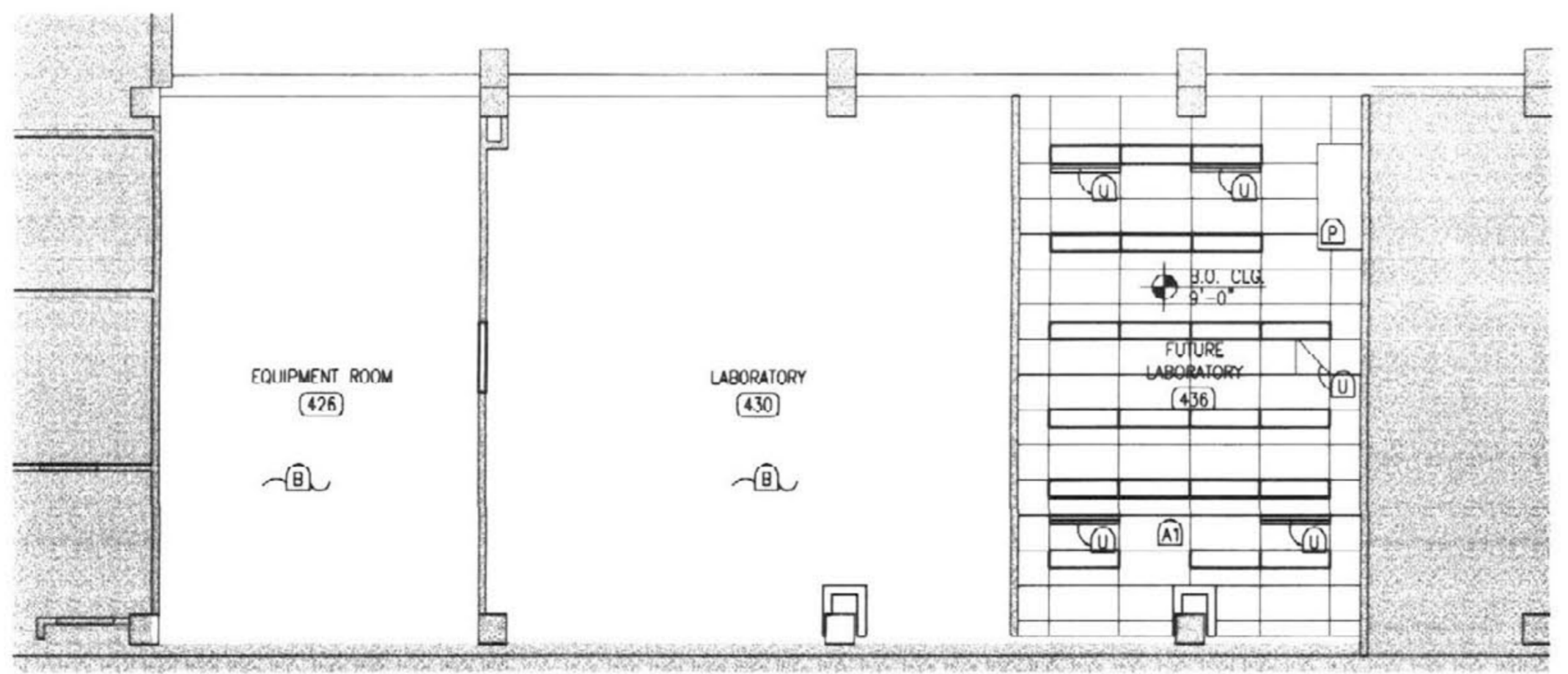
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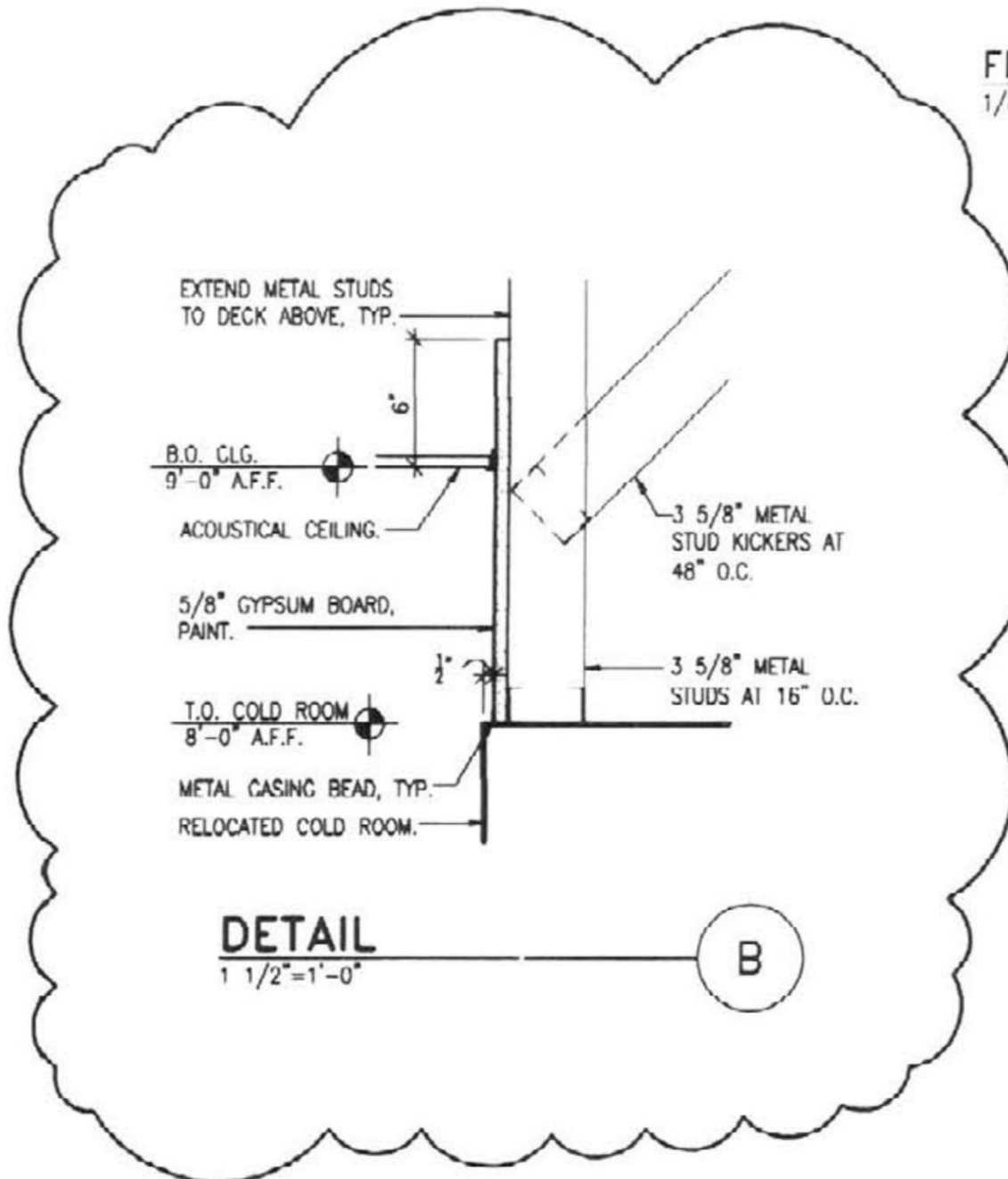
FIRST FLOOR REFLECTED CEILING PLAN
1/8"=1'-0"



PARTIAL FOURTH FLOOR REFLECTED CEILING PLAN
1/8"=1'-0"



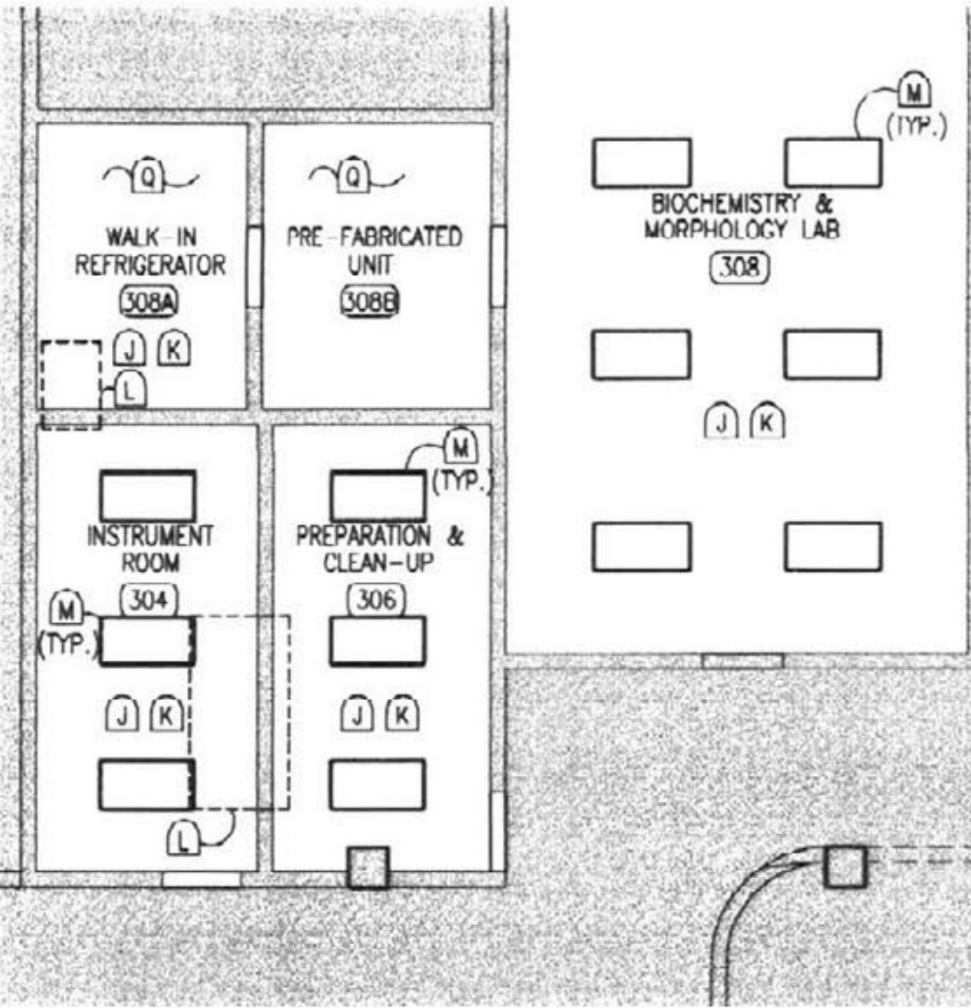
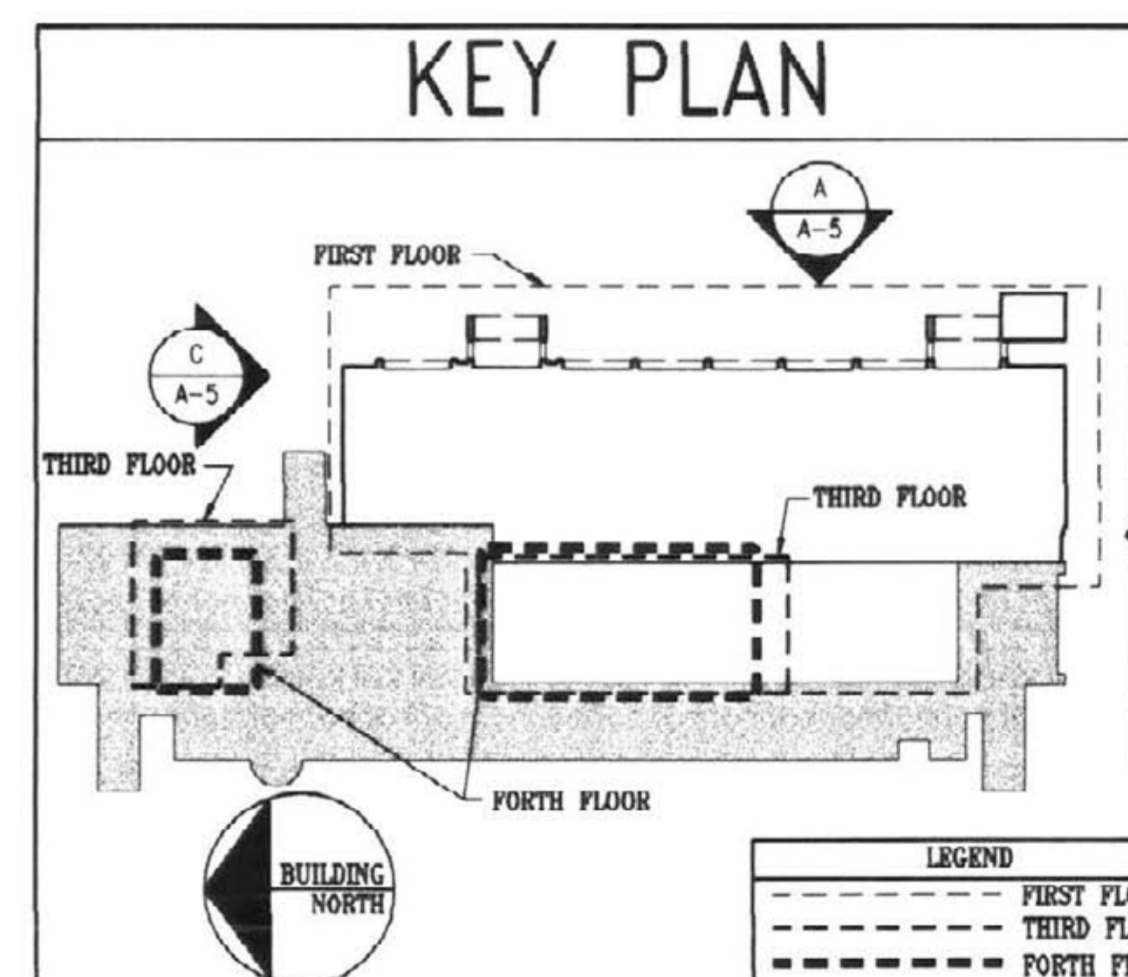
PARTIAL FOURTH FLOOR REFLECTED CEILING PLAN
1/8"=1'-0"



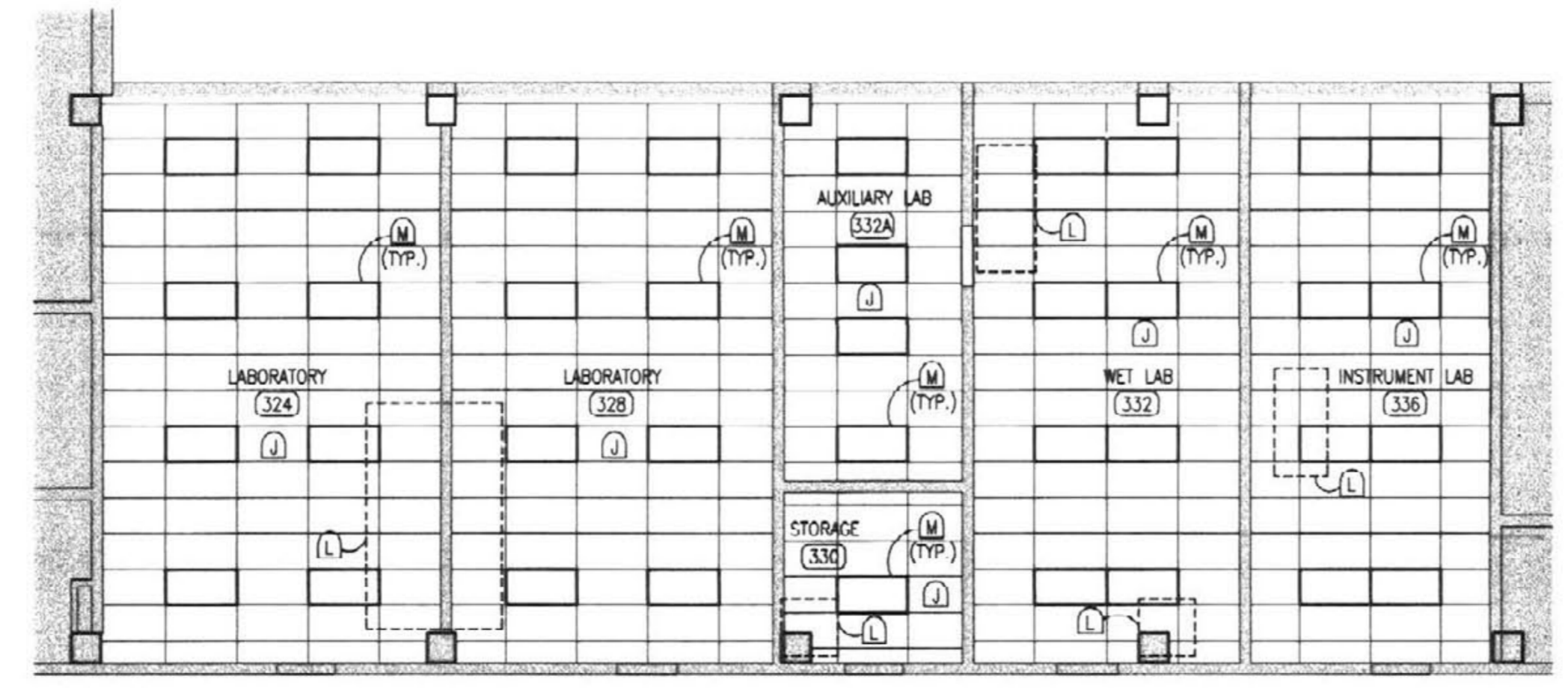
DETAIL
1 1/2"=1'-0"

- DETAIL NOT USED (C)
- DETAIL NOT USED (D)
- DETAIL NOT USED (E)

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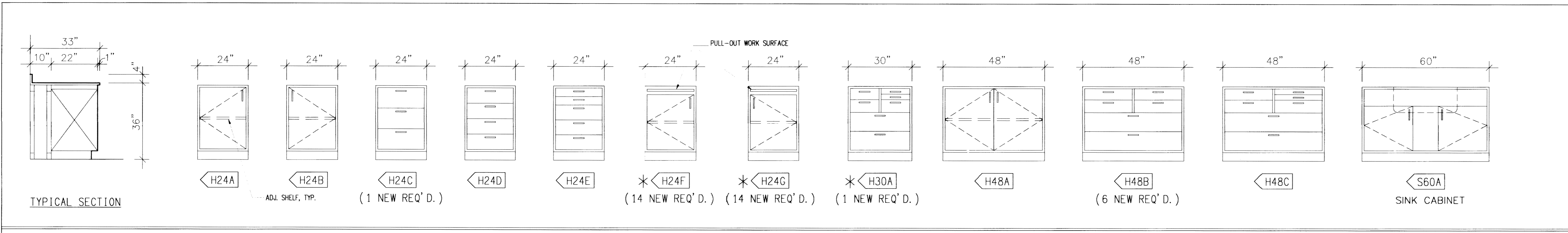


PARTIAL THIRD FLOOR REFLECTED CEILING PLAN
1/8"=1'-0"

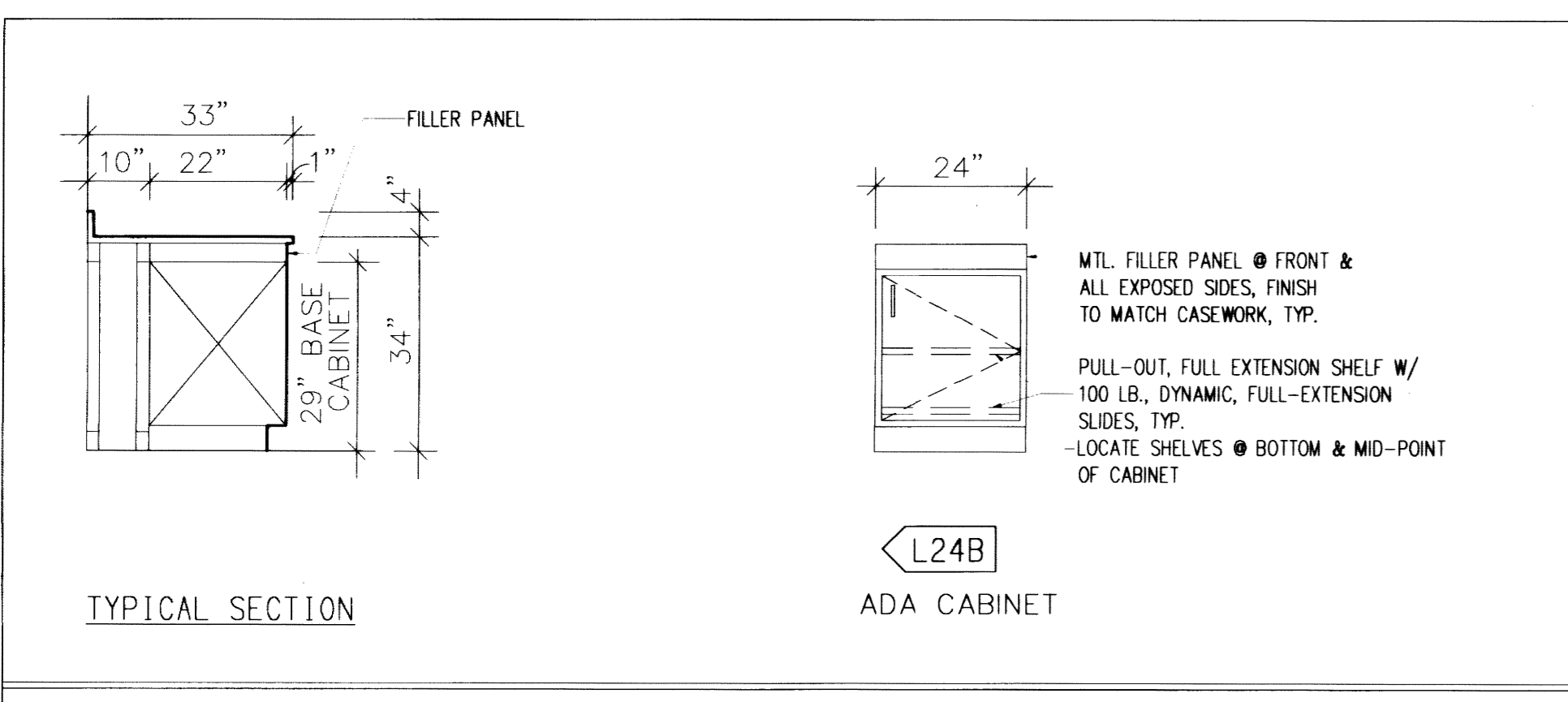


PARTIAL THIRD FLOOR REFLECTED CEILING PLAN
1/8"=1'-0"

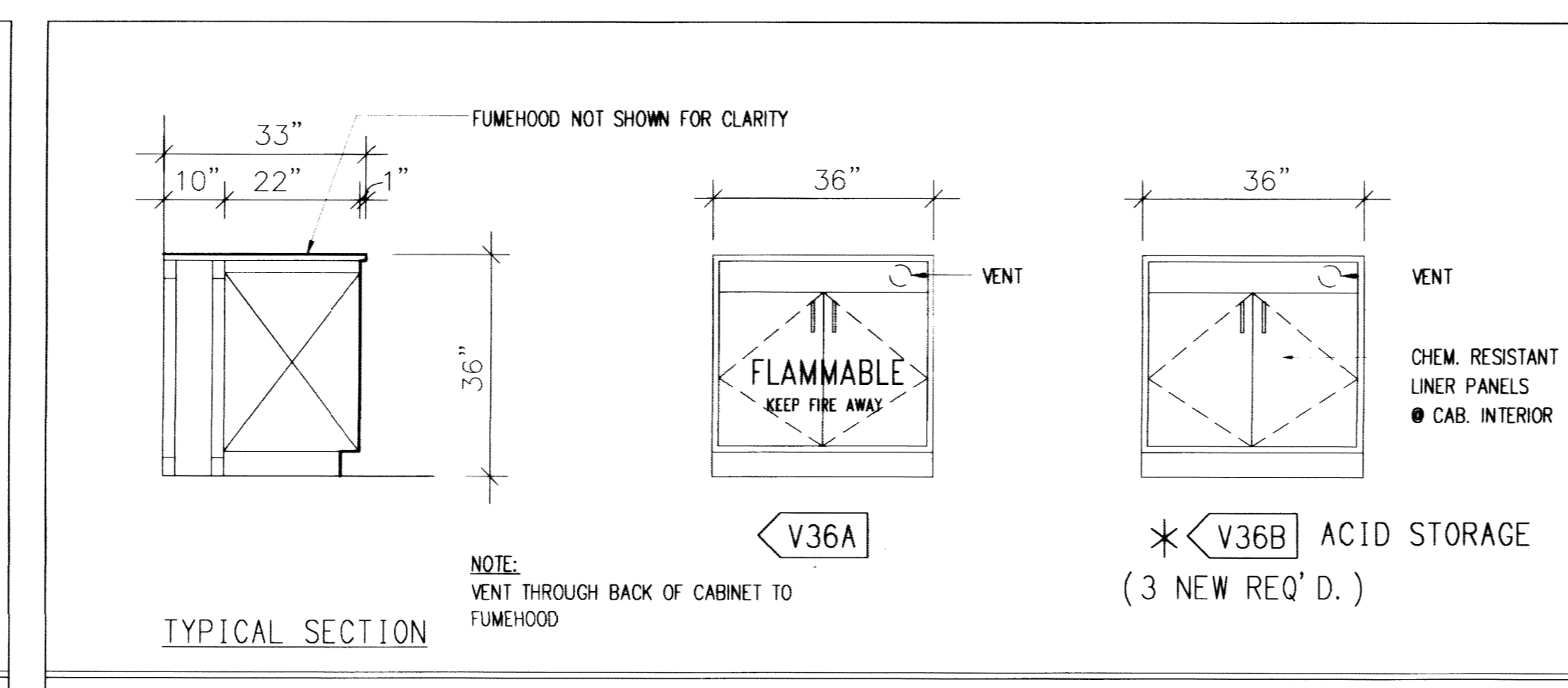
CEILING LEGEND	CEILING KEYNOTES	SYMBOLS
REFLECTED CEILING KEY NOTE	ACoustical TILE AND SUSP. SYSTEM.	ROOM NUMBER (FIN. SCHED. SHT. A-3)
ACCENT LIGHT - SEE ELECTRICAL.	VINYL FACED ACoustical TILE AND SUSP. SYSTEM.	DOOR NUMBER (DOOR SCHED. SHT. A-3)
LAY IN 2x4 LIGHT FIXTURE - SEE ELECTRICAL.	EXIST. GYP. BO. CLG. SYSTEM TO REMAIN.	WALL TYPE (SHT. N-1)
LAY IN 1x4 LIGHT FIXTURE - SEE ELECTRICAL.	OPEN TO STRUCT. ABOVE.	WINDOW TYPE (SHT. A-3)
HVAC SUPPLY - SEE MECHANICAL.	CYP. CEILING BOARD SOFFIT.	DEMOLITION KEYNOTE (SHT. D-1)
SUSPENDED LIGHT - SEE ELECTRICAL.	CEILING MOUNTED PROJECTION SCREEN. REFER TO DETAIL FF/A-B.	TOILET ACCESSORY (SHT. A-1)
HVAC RETURN - SEE MECHANICAL.	EXISTING CATWALK ABOVE TO REMAIN. MODIFY FOR NEW LADDER ACCESS. SEE STRUCT. AND KK/A-B.	WALL / PARTITION DESIGNATION
HVAC STRIP SUPPLY - SEE MECHANICAL.	EXPOSED CONCRETE.	FO - UNRATED SPECIFIC USE SEPARATION
HVAC SUPPLY - SEE MECHANICAL.	EXISTING CEILING LIGHTS AND DIFFUSERS TO BE REMOVED AS REQUIRED TO FACILITATE NEW CONSTRUCTION. REINSTALLED AFTER NEW CONSTRUCTION. REPLACE ANY ITEMS DAMAGED DURING CONSTRUCTION.	EXTENSION JOINT - 3/8" BACKER ROD AND SEALANT FULL IT.
		NEW WALL MOUNTED FIRE EXTINGUISHER AND SEALANT FULL IT.
		NEW FIRE EXTINGUISHER AND CABINET
		HOSE BIB, REFER TO PLUMBING DOCUMENTS. MOUNT 18" ABOVE WALK.
		F.E.C.
		TEMPORARY WALL
		EXISTING DOOR, FRAME, AND HARDWARE TO REMAIN (I.N.O.)
		EXISTING AIR GAS, VACUUM. REFER TO PLANS FOR SPECIFIC INFORMATION.



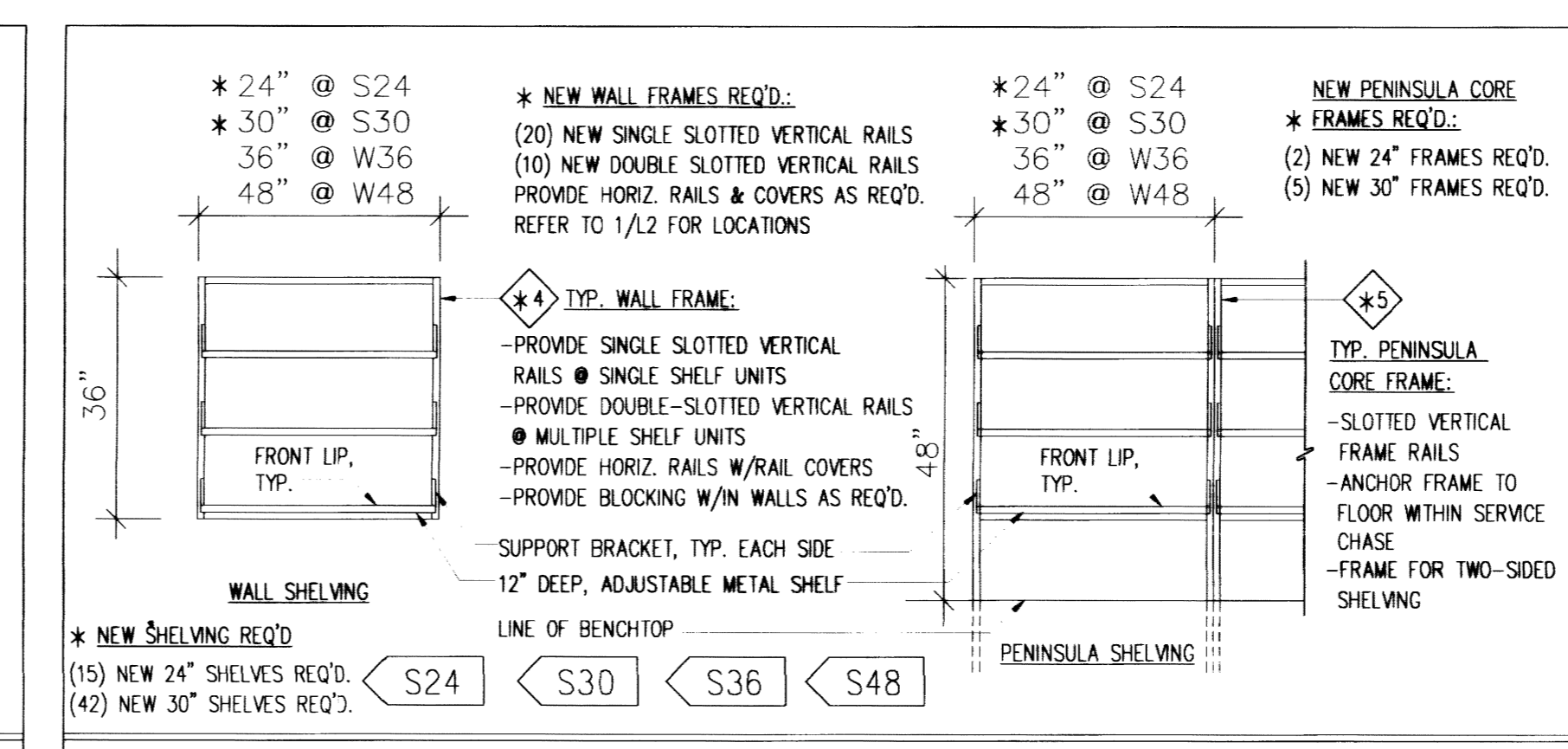
STANDING HEIGHT BASE CABINETS SCALE: 1/2"=1'-0"



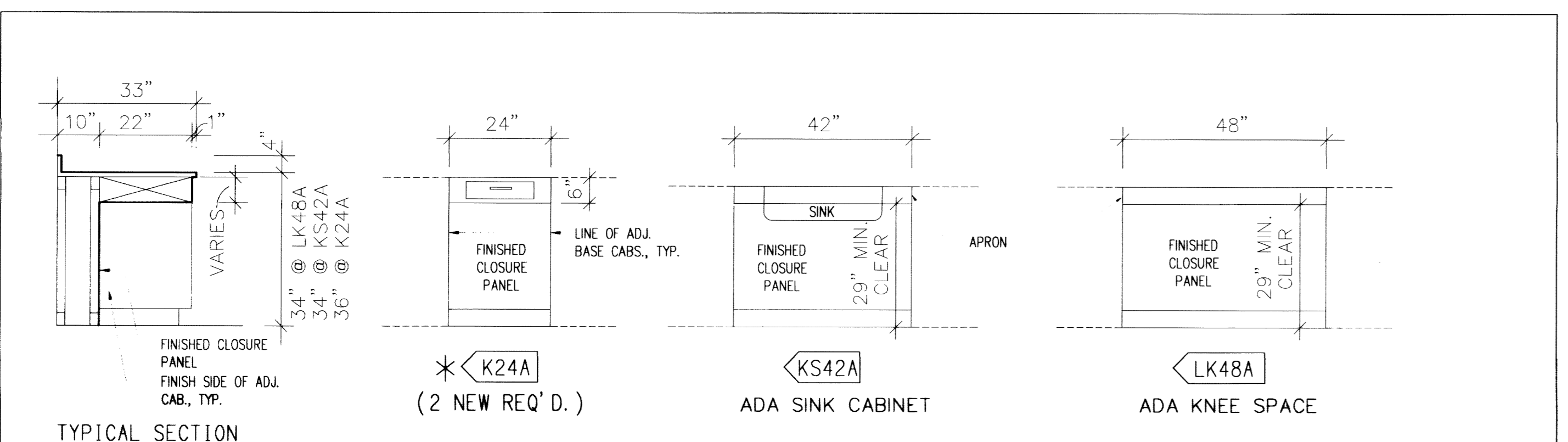
SITTING HEIGHT BASE CABINETS SCALE: 1/2"=1'-0"



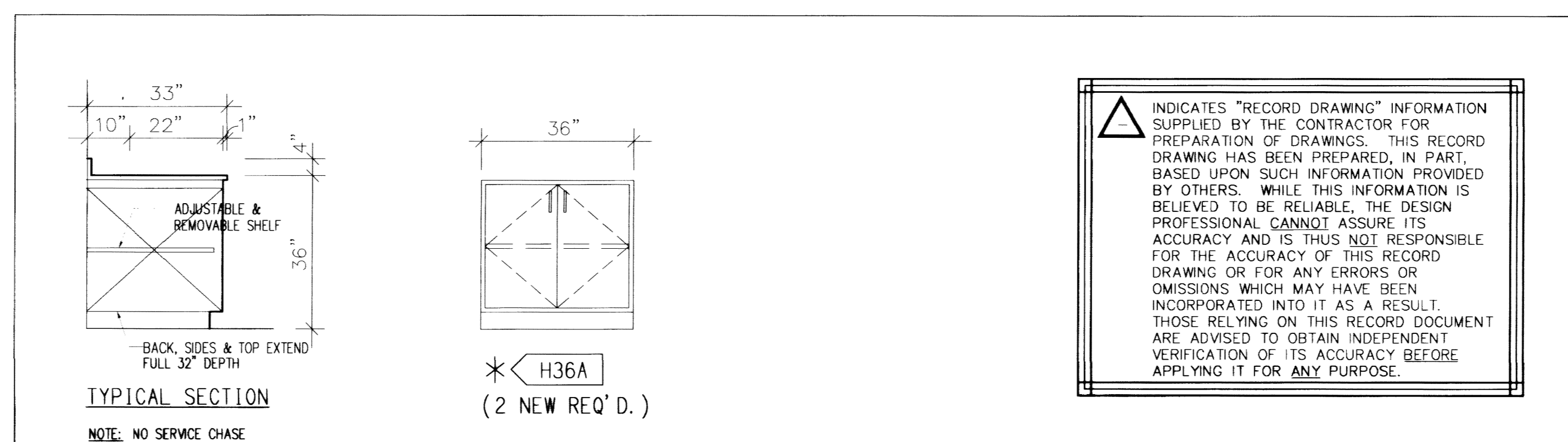
VENTED BASE CABINETS SCALE: 1/2"=1'-0"



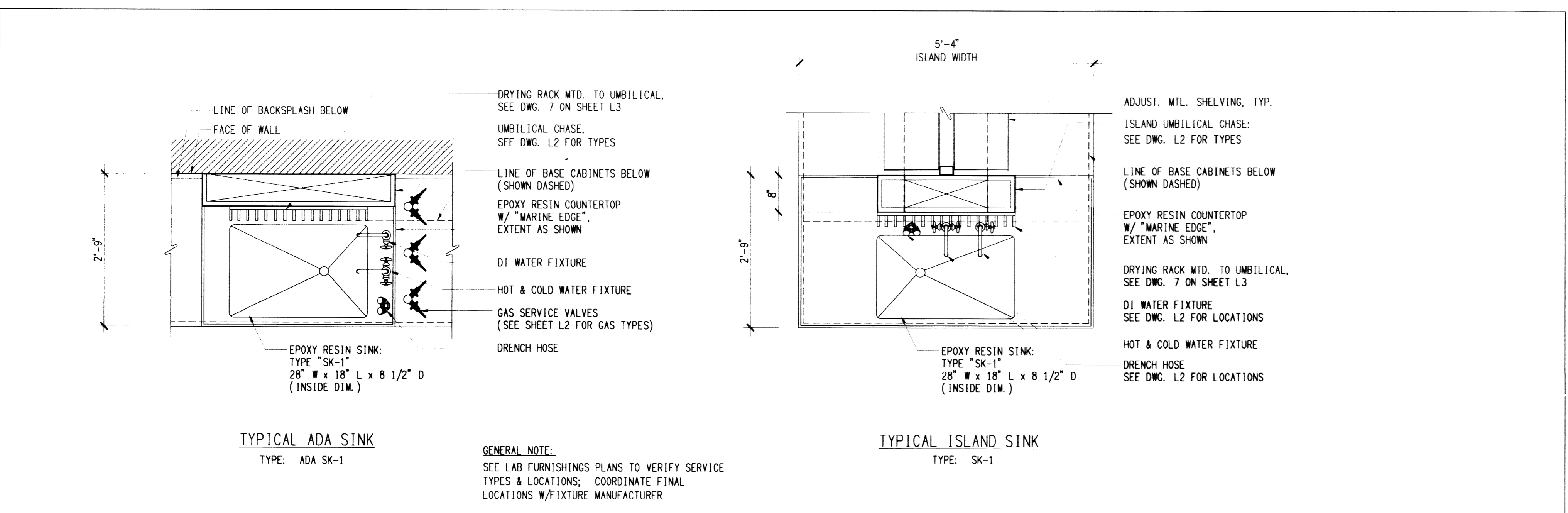
WALL & PENINSULA SHELVING SCALE: 1/2"=1'-0"



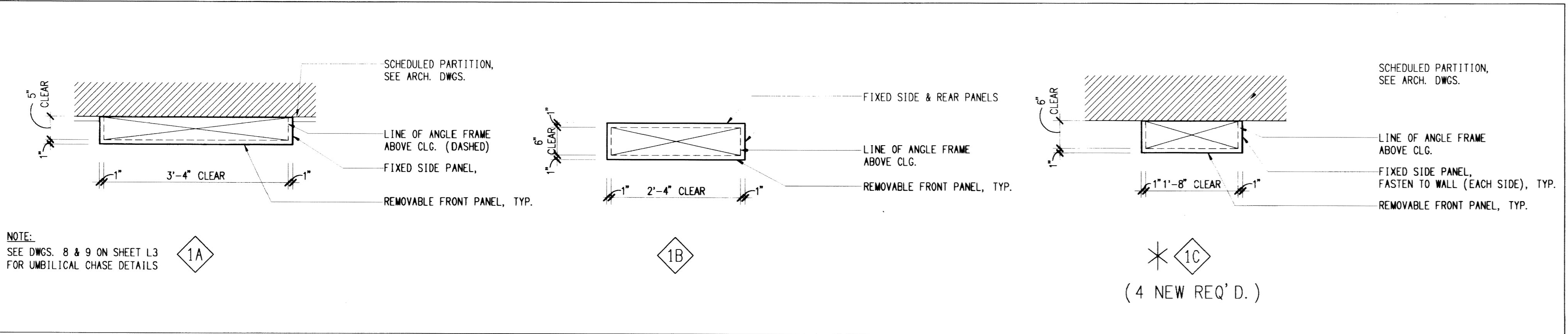
KNEE SPACES SCALE: 1/2"=1'-0"



SPECIALTY BASE CABINETS SCALE: 1/2"=1'-0"



SINK SCHEDULE SCALE: 3/4"=1'-0"



UMBILICAL CHASE SCHEDULE SCALE: 3/4"=1'-0"

GENERAL NOTES:

- *(ASTERISK) INDICATES NEW MATERIALS (IE. CASEWORK, WALL SHELVES ECT...) TO BE PURCHASED BY OWNER & INSTALLED BY CONTRACTOR
- ITEMS NOT DESIGNATED WITH AN ASTERISK INDICATE EXISTING MATERIALS TO BE PROVIDED BY OWNER, AND INSTALLED BY CONTRACTOR
- SEE SPECIFICATION SECTION 12345 FOR INSTALLATION REQUIREMENTS OF EXISTING MATERIALS
- SEE DWG. 1/L1 FOR LABORATORY LAYOUT, SPECIFIC LOCATIONS OF NEW & EXISTING MATERIALS & QUANTITIES OF NEW MATERIALS
- SEE DWG. 2/L1 FOR EXISTING & NEW EPOXY COUNTERTOP LAYOUT, PROVIDED & INSTALLED BY CONTRACTOR

NUMBER	DESCRIPTION	FACE VELOCITY	CFM	SP	COLLAR SIZE	SASH TYPE	SASH OPENING	AIR FOIL AREA	LINER MATERIAL	NOTES
CFH-1	72" ADA CHEMICAL HOOD	100 FPM	785 CFM	0.13	6" x 23"	VERTICAL	18"	63 SQ. IN.	POLYRESIN	1, 2, 3, 4
BSC-1	72" BIO-SAFETY CABINET	-	-	-	-	-	-	-	-	3
BSC-2	60" BIO-SAFETY CABINET	-	-	-	-	-	-	-	-	3

NOTES:

- EPOXY RESIN BENCHTOP
- ALL HOODS SHALL BE PRE-PIPED & PRE-WIRED
- OWNER FURNISHED & OWNER INSTALLED
- SEE DWG. 6 ON SHEET L3 FOR FUMEHOOD SECTION & ELEVATION

FUMEHOOD & BIO-SAFETY CABINET SCHEDULE

SYMBOL	DESCRIPTION	NOTES
1A	UMBILICAL CHASE	-SEE LAB PLANS ON SHEET L2 FOR UMBILICAL LOCATIONS -SEE UMBILICAL CHASE SCHEDULE ON SHEET L1 FOR DIMS.
2	ST. STL., GLASSWARE DRYING RACK	-SEE LAB PLANS ON SHEET L2 FOR LOCATIONS
3	ELEC./DATA ALUM. RACEWAY, -120 V OUTLETS @ 24" O.C. TYP. -280V OUTLETS SHOWN ON PLANS	-SEE ELEC. DWGS. & SPEC. DIV. 16
4	ADJUSTABLE SHELVING WALL FRAME	-SEE LAB PLANS ON SHEET L2 FOR LOCATIONS -SEE SPEC. DIV. 12345
5	ADJUSTABLE SHELVING PENINSULA FRAME	-SEE LAB PLANS ON SHEET L2 FOR LOCATIONS -SEE SPEC. DIV. 12345
CFH-1	CHEMICAL FUME HOOD	-SEE LAB PLANS ON SHEET L2 FOR LOCATIONS -SEE FUMEHOOD/BIO-SAFETY SCHEDULE ON SHEET L1
BSC-1	BIO-SAFETY CABINET	-SEE LAB PLANS ON SHEET L2 FOR LOCATIONS -SEE FUMEHOOD/BIO-SAFETY SCHEDULE ON SHEET L1
SK-1	EPOXY RESIN SINK	-SEE LAB PLANS ON SHEET L2 FOR LOCATIONS -SEE SINK SCHEDULE ON SHEET L1 FOR TYP. CONFIGURATIONS & TYPES
ES/EW	EMERGENCY SHOWER & EYEWASH	-SEE LAB PLANS ON SHEET L2 FOR LOCATIONS -SEE SPEC. DIV. 15
DESIGN MFR.: WATERSAVER # L2880-132A	DOUBLE OUTLET, DECK-MOUNTED TURRET -45" CONFIGURATION	-SERVICES AS SHOWN ON LAB PLANS, SHEET L2
DESIGN MFR.: WATERSAVER # L2880-134	4-WAY OUTLET, DECK-MOUNTED TURRET -180" CONFIGURATION	-SERVICES AS SHOWN ON LAB PLANS, SHEET L2
DESIGN MFR.: WATERSAVER # L3180-158	DOUBLE OUTLET, PANEL-MOUNTED TURRET -45" CONFIGURATION	-SERVICES AS SHOWN ON LAB PLANS, SHEET L2
DESIGN MFR.: FISHER-HAMILTON #36L26100	EPOXY HOUSING -DOUBLE GANG -DOUBLE FACE	* 9 NEW REQ'D.
H24A	CABINET STYLE	CASEWORK IDENTIFICATION KEY -SEE SCHEDULE, THIS SHEET
	CABINET WIDTH	-SEE LAB PLANS ON SHEET L2 FOR CASEWORK LAYOUT
A	COMPRESSED AIR	
G	LABORATORY GAS	
V	VACUUM	
CW HW	DESIGN MFR.: WATERSAVER # L414VB55	HOT & COLD WATER SWIVEL, MIXING FAUCET W/VACUUM BREAKER -SEE LAB PLANS ON SHEET L2 FOR LOCATIONS
DI	DESIGN MFR.: WATERSAVER # L7833	DEIONIZED WATER FAUCET W/ VACUUM BREAKER -SEE LAB PLANS ON SHEET L2 FOR LOCATIONS
DH	DESIGN MFR.: WATERSAVER # EW1022	DECK-MOUNTED DRENCH HOSE -SEE LAB PLANS ON SHEET L2 FOR LOCATIONS
EP	FINISHED END PANEL	-BY CASEWORK MFR.
FP	CASEWORK FILLER PANEL (MIN. 2" WIDE)	BY CASEWORK MFR.
+34"	ADA COMPLIANT	INDICATES WORK SURFACE ELEV. ABV. FINISH FLOOR
+36"		

LABORATORY SYMBOLS & ABBREVIATIONS

RECORD DRAWINGS JUNE 18, 2003

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2405 HARPODSBURG ROAD • LEXINGTON, KY 40504 • PH: 859-224-1351 • FAX: 859-224-8446

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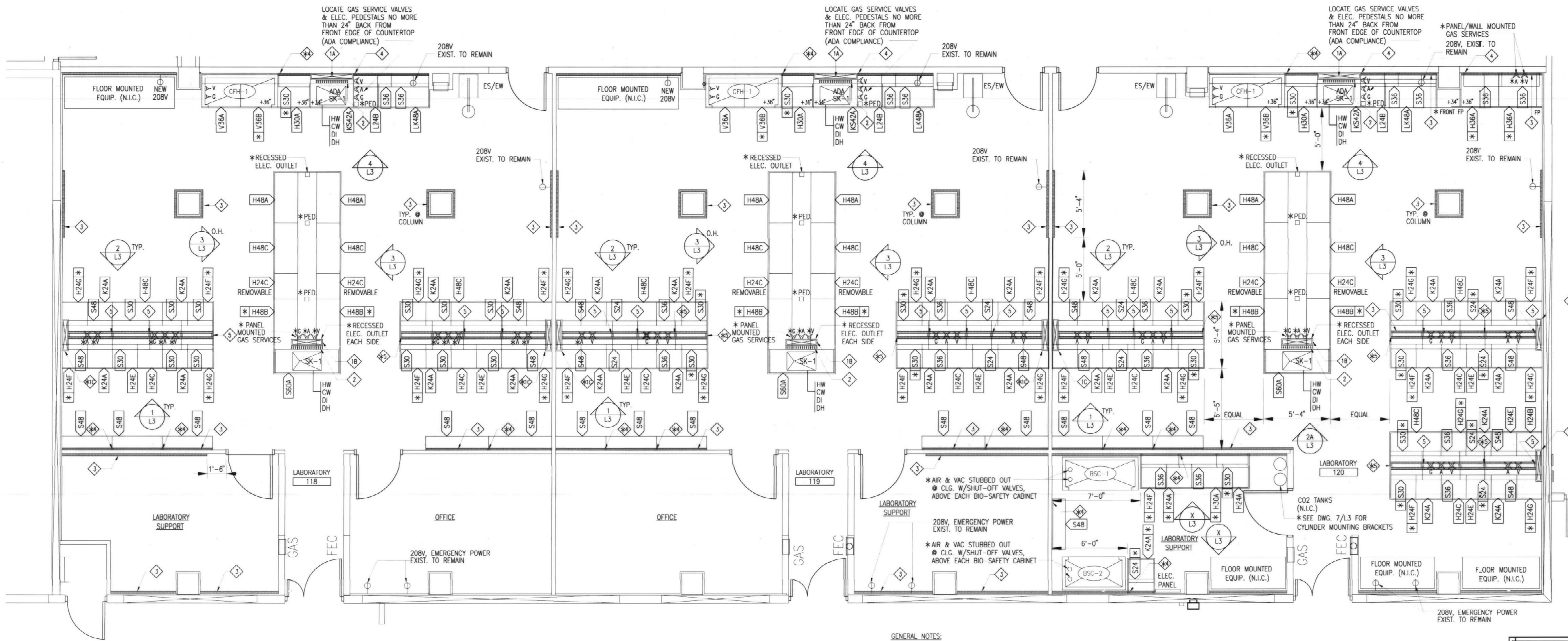
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L1

Gluck Equine Research Center
Laboratory Fit-Up
University of Kentucky

LABORATORY CASEWORK & GENERAL NOTES
Flood Associates



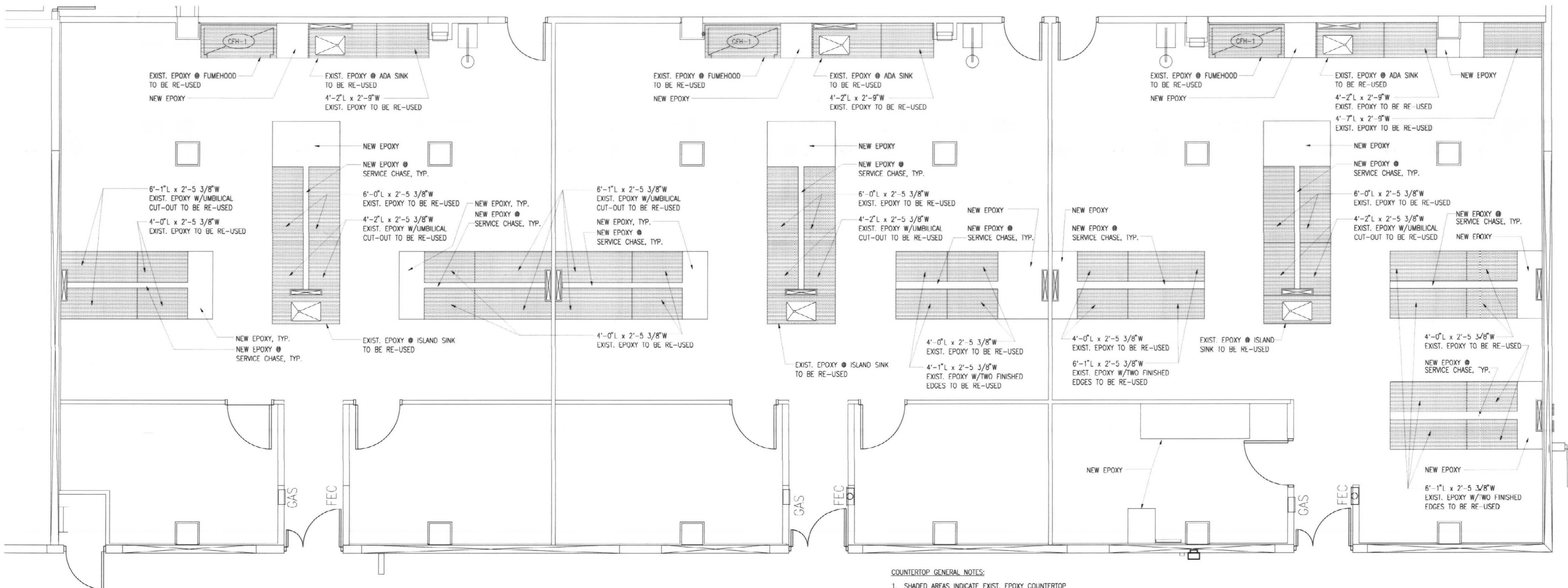
GENERAL NOTES:

1. REFER TO SHEET L1 FOR ADDITIONAL NOTES SYMBOLS & ABBREVIATIONS
2. LAYOUT DIMENSIONS SHOWN IN RM. #120 ARE TYP. FOR RMs. #118 & #119
3. (ASTERISK) INDICATES NEW MATERIALS (E. CASEWORK, WALL SHELVES, ETC...) TO BE PURCHASED BY OWNER & INSTALLED BY CONTRACTOR
4. ITEMS NOT DESIGNATED WITH AN ASTERISK INDICATE EXISTING MATERIALS TO BE PROVIDED BY OWNER, AND INSTALLED BY CONTRACTOR
5. SEE SPECIFICATION SECTION 12345 FOR INSTALLATION REQUIREMENTS OF EXISTING MATERIALS
6. SEE DWG. 2/L1 FOR EXISTING & NEW EPOXY COUNTERTOP LAYOUT, PROVIDED & INSTALLED BY CONTRACTOR

1 LABORATORY FURNISHING PLAN

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

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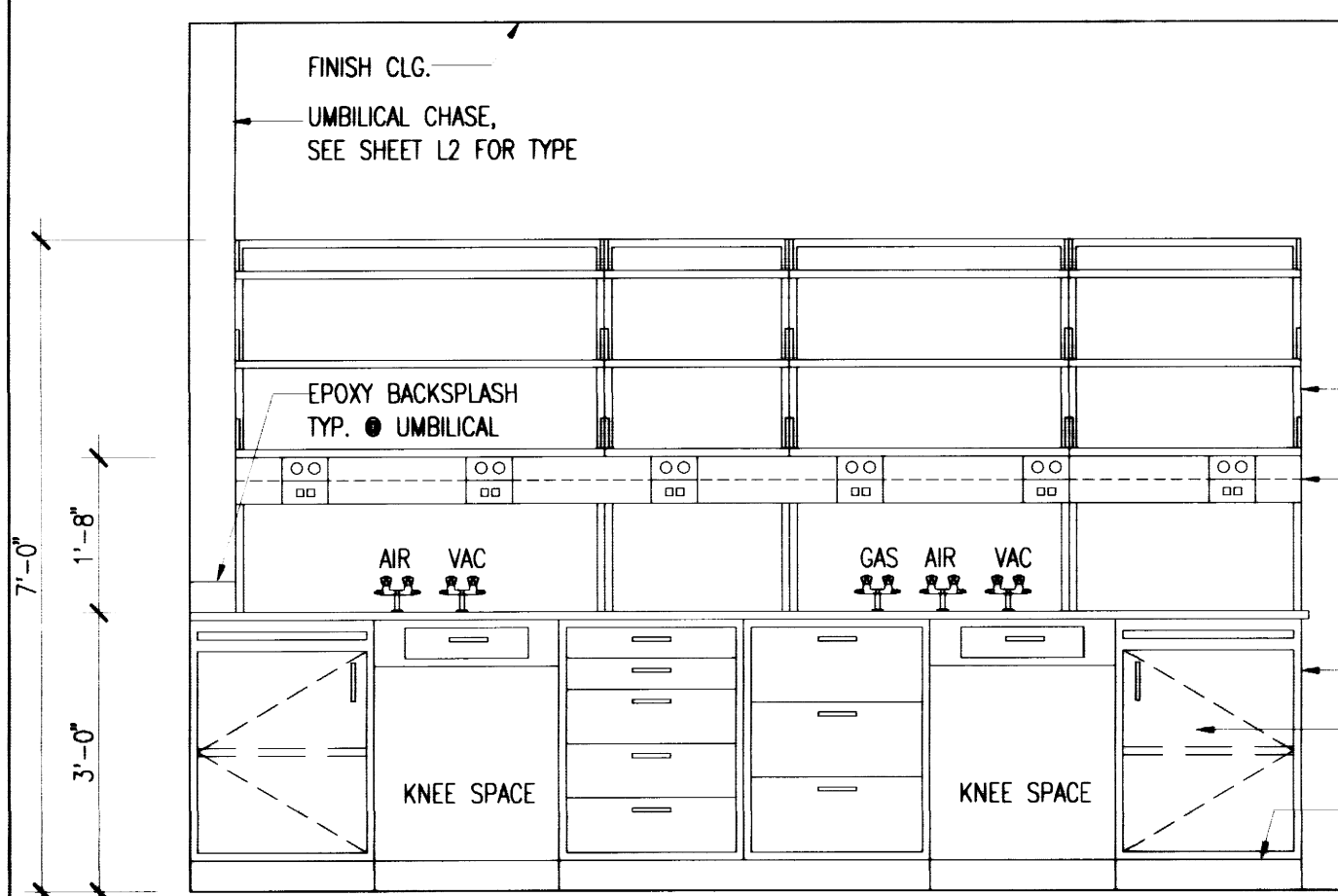


COUNTERTOP GENERAL NOTES:

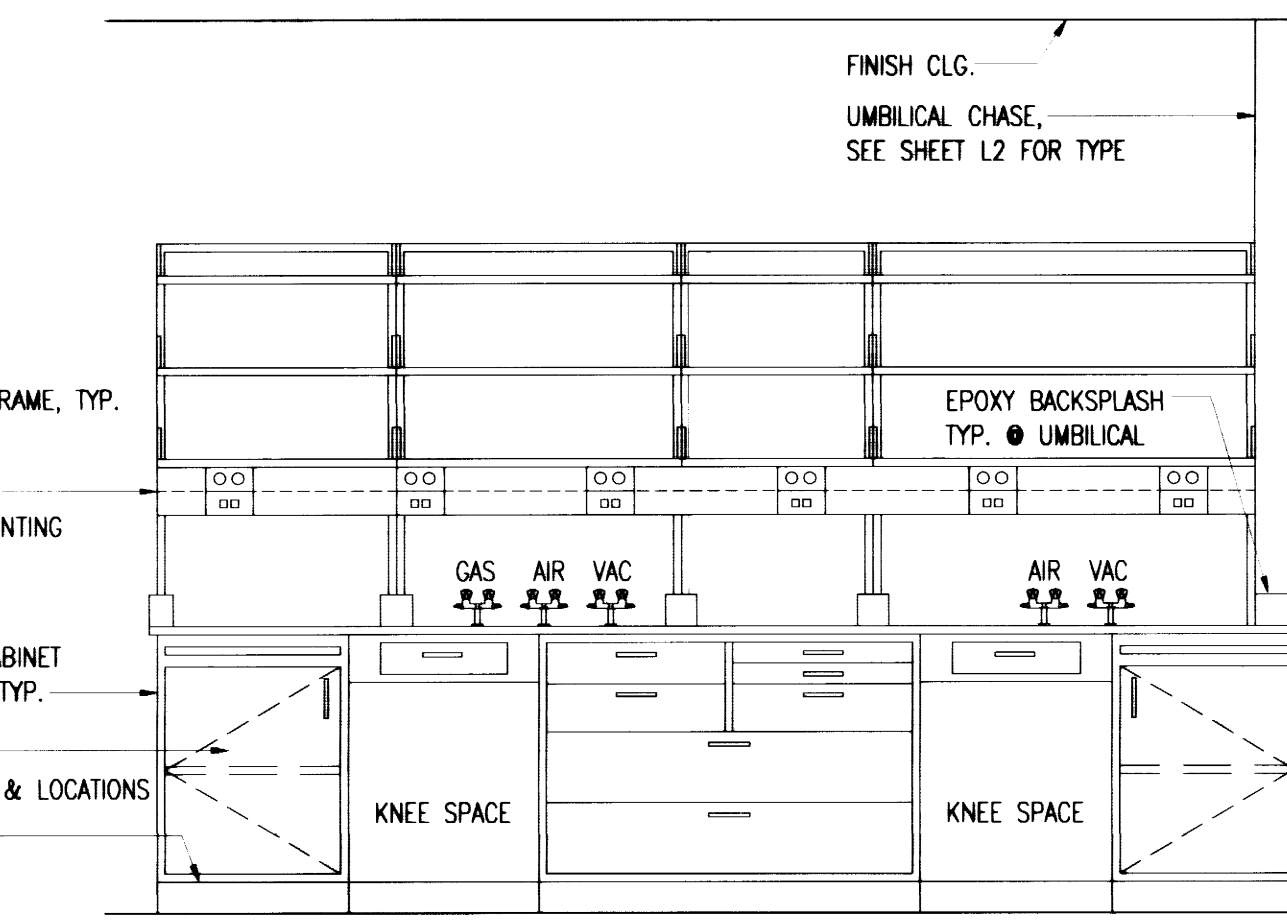
1. SHADED AREAS INDICATE EXIST. EPOXY COUNTERTOP TO BE INSTALLED BY CONTRACTOR
2. OTHER AREAS OF EPOXY COUNTERTOP TO BE PROVIDED & INSTALLED BY CONTRACTOR
3. CONTRACTOR SHALL PROVIDE ALL REQUIRED BACKSPASHES, SIDESPLASHES & COUNTERTOP SEALANTS & ACCESSORIES AS REQ'D.

2 EPOXY COUNTERTOP RE-USE PLAN

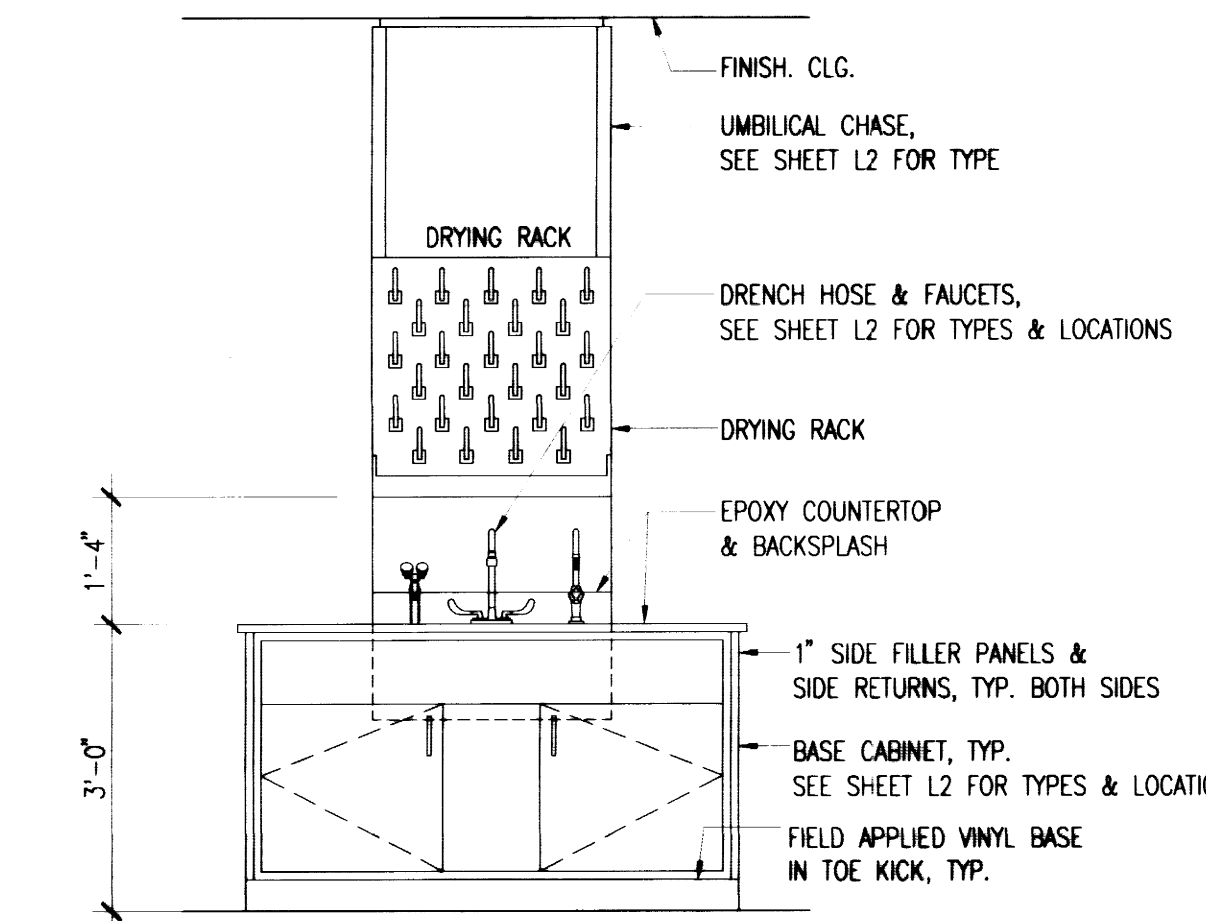
SCALE: 1/4"=1'-0"



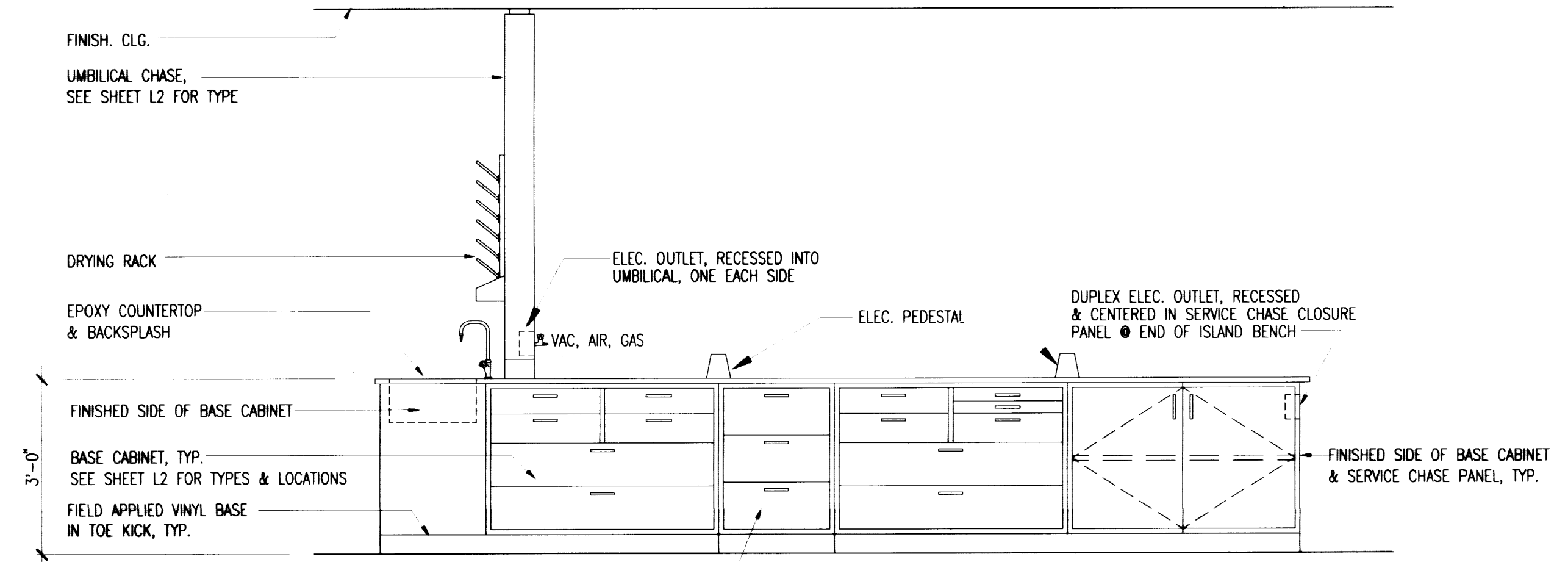
1 TYP. PENINSULA BENCH: SIDE ELEVATION
SCALE: 1/2"=1'-0"



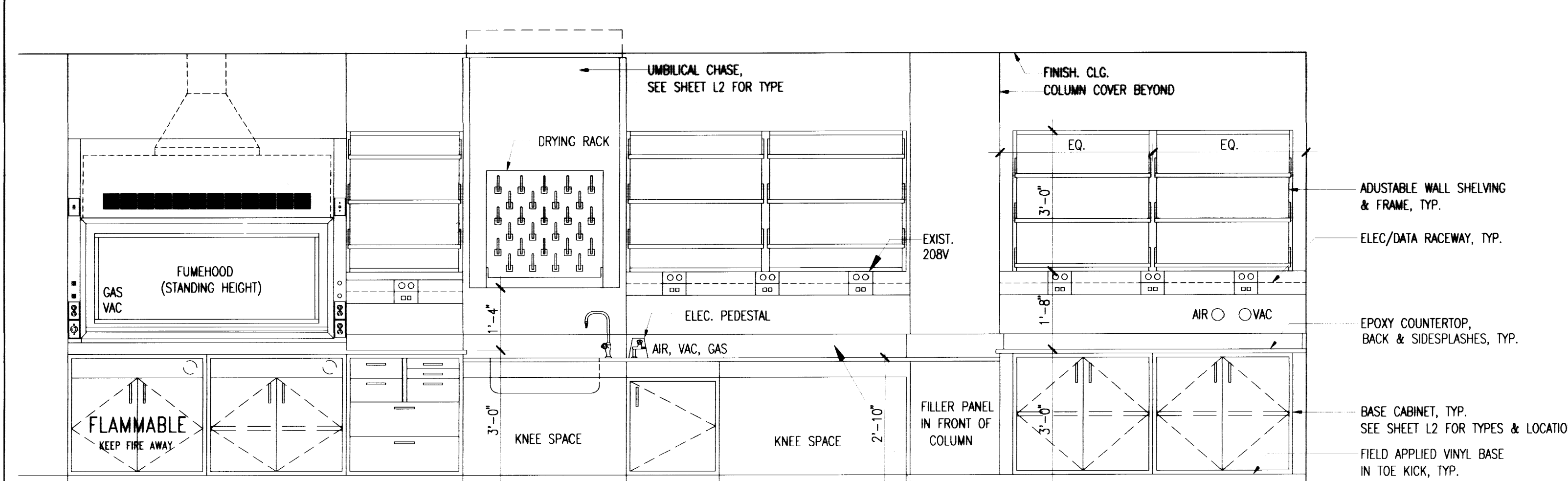
2 TYP. PENINSULA BENCH: SIDE ELEVATION
SCALE: 1/2"=1'-0"



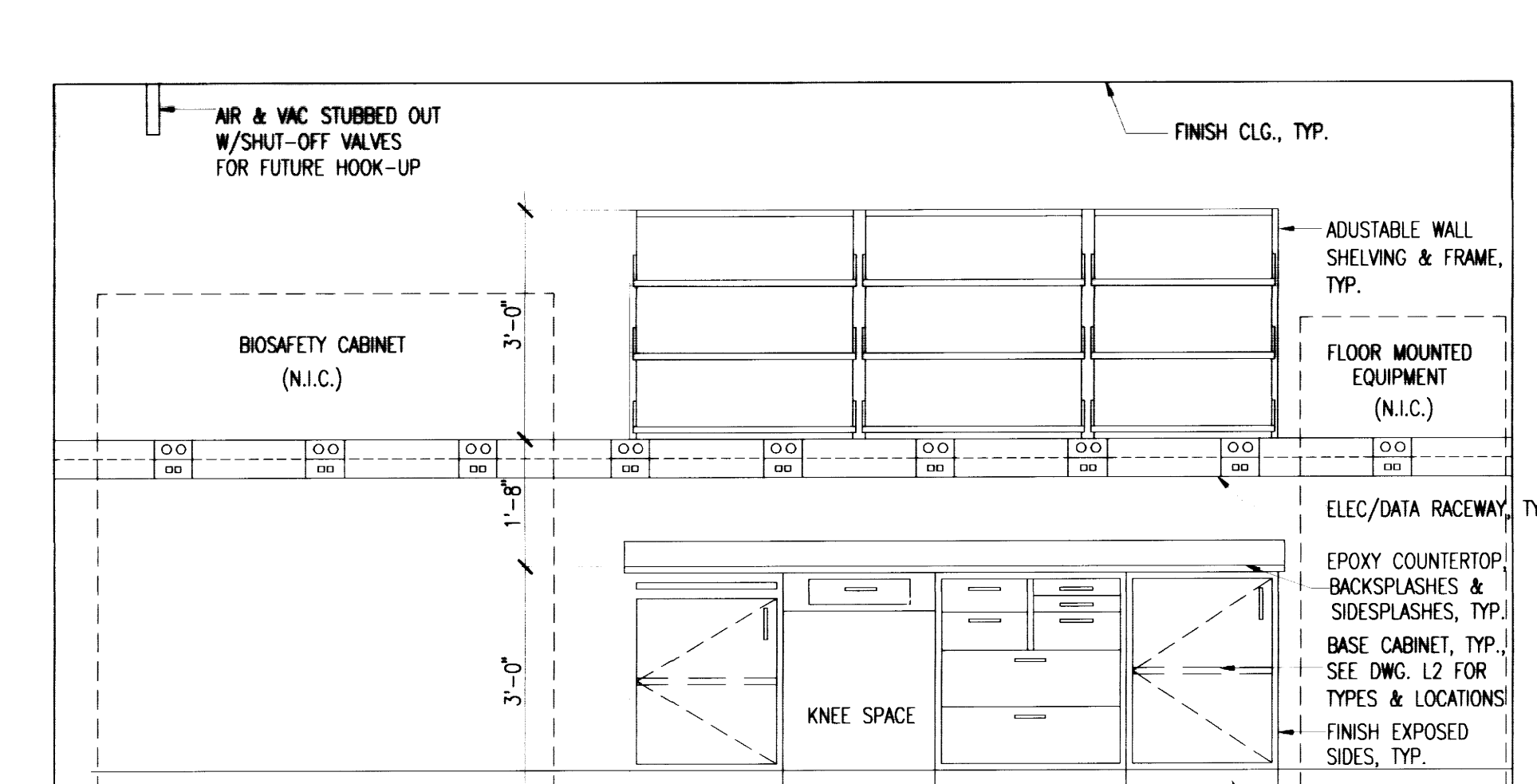
2A TYP. ISLAND BENCH: SINK ELEVATION
SCALE: 1/2"=1'-0"



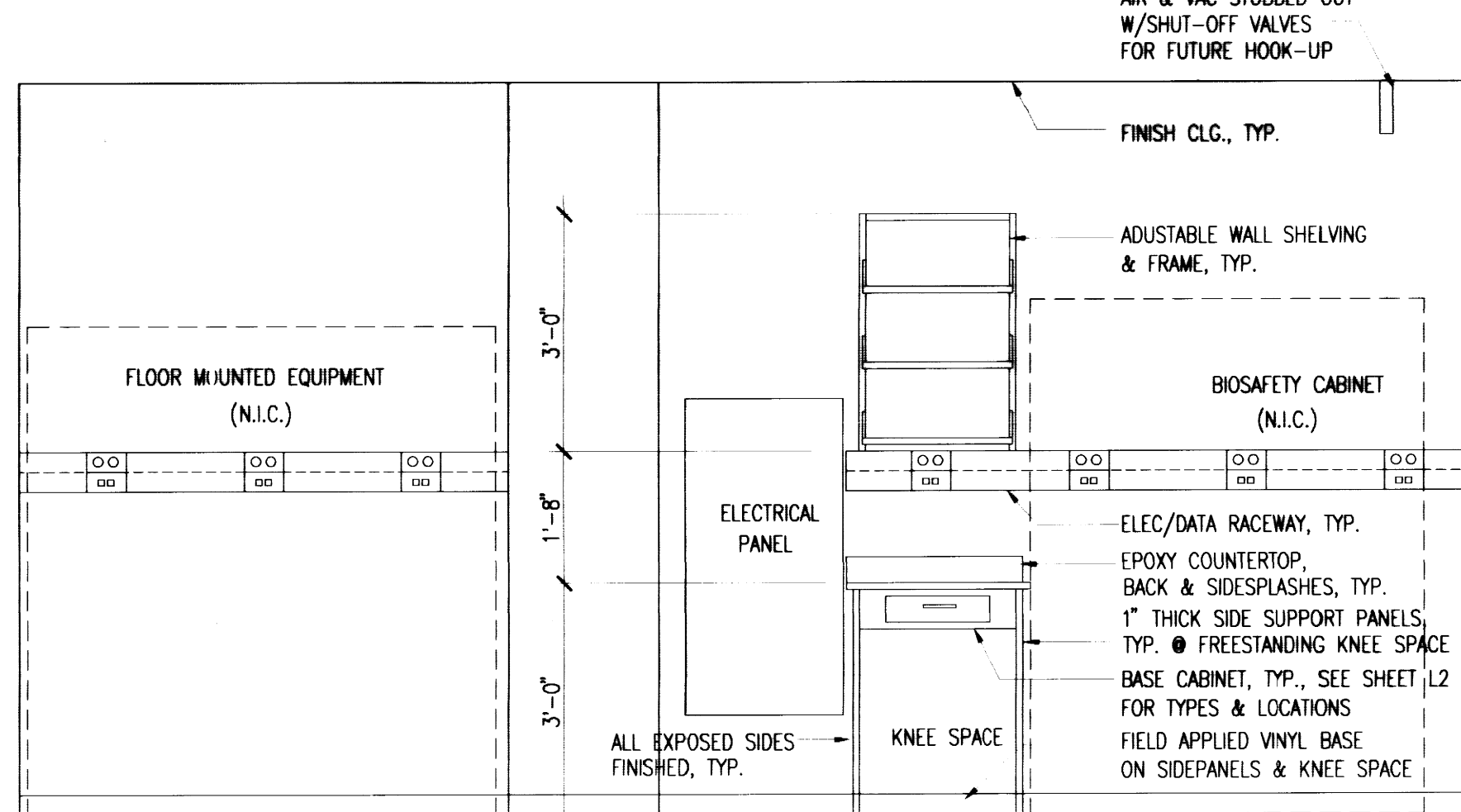
3 TYP. ISLAND BENCH: SIDE ELEVATION
SCALE: 1/2"=1'-0"



4 WALL BENCH: ADA STATION ELEVATION
SCALE: 1/2"=1'-0"

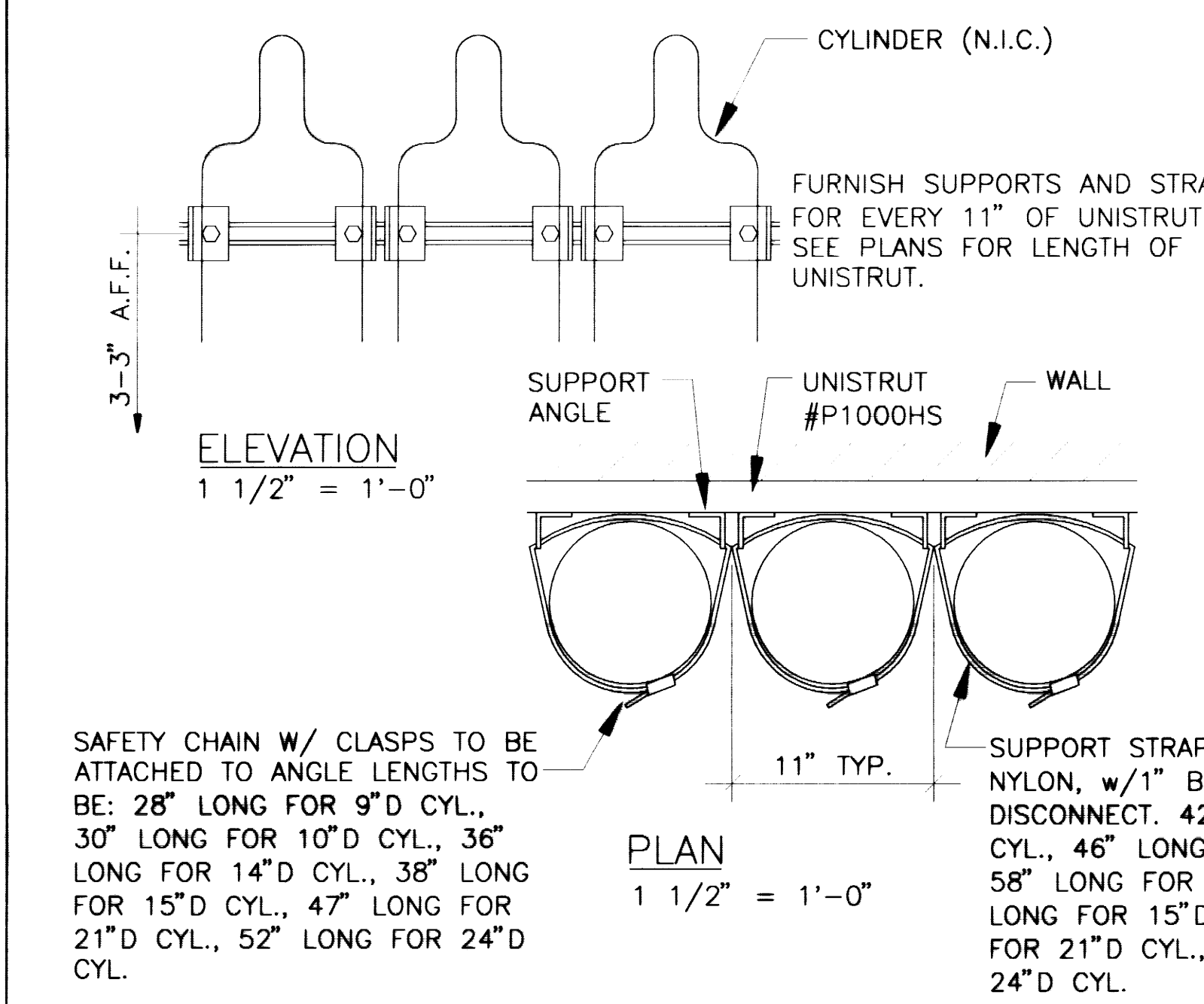


5 LAB SUPPORT: ELEVATION
SCALE: 1/2"=1'-0"

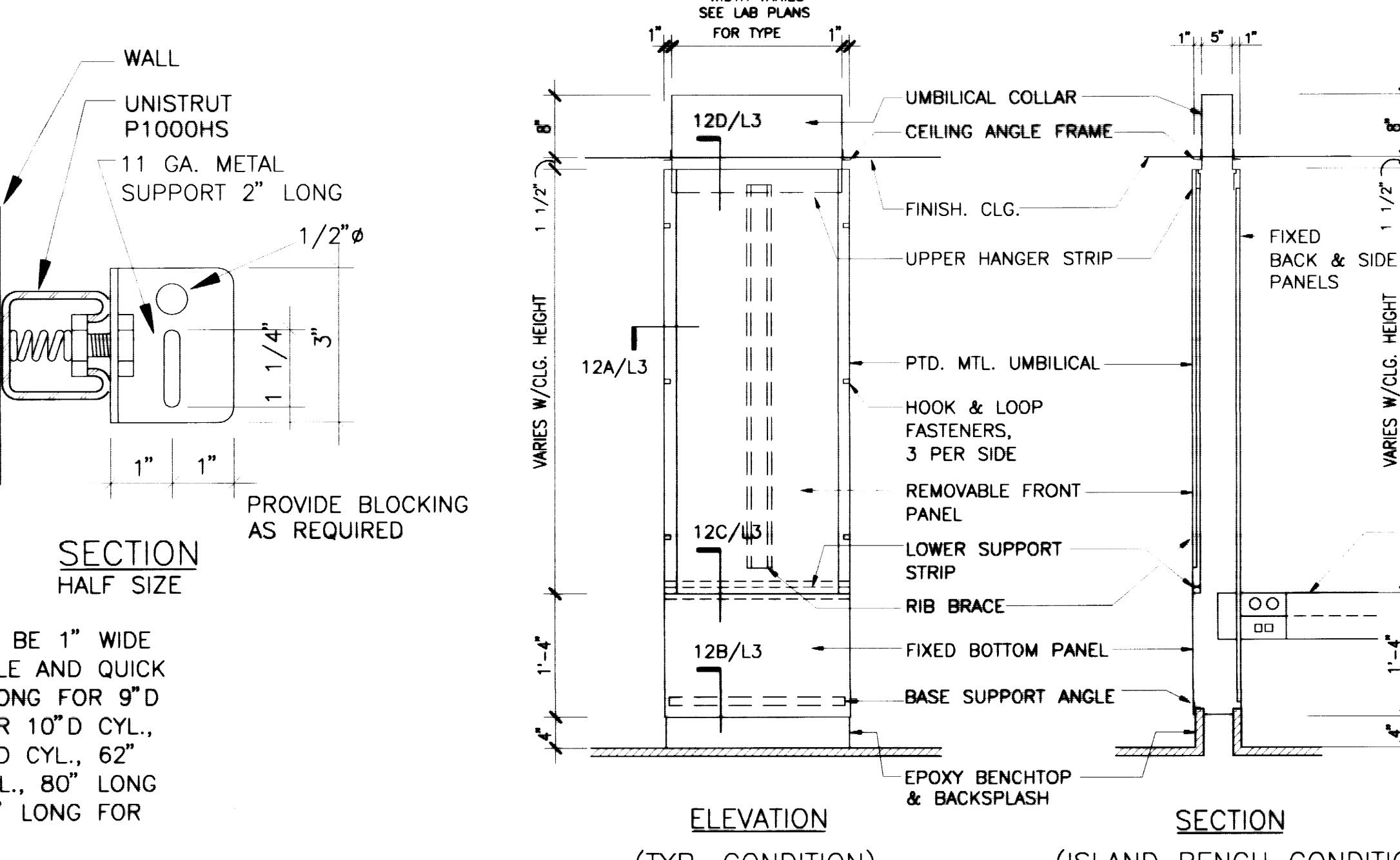


6 LAB SUPPORT: ELEVATION
SCALE: 1/2"=1'-0"

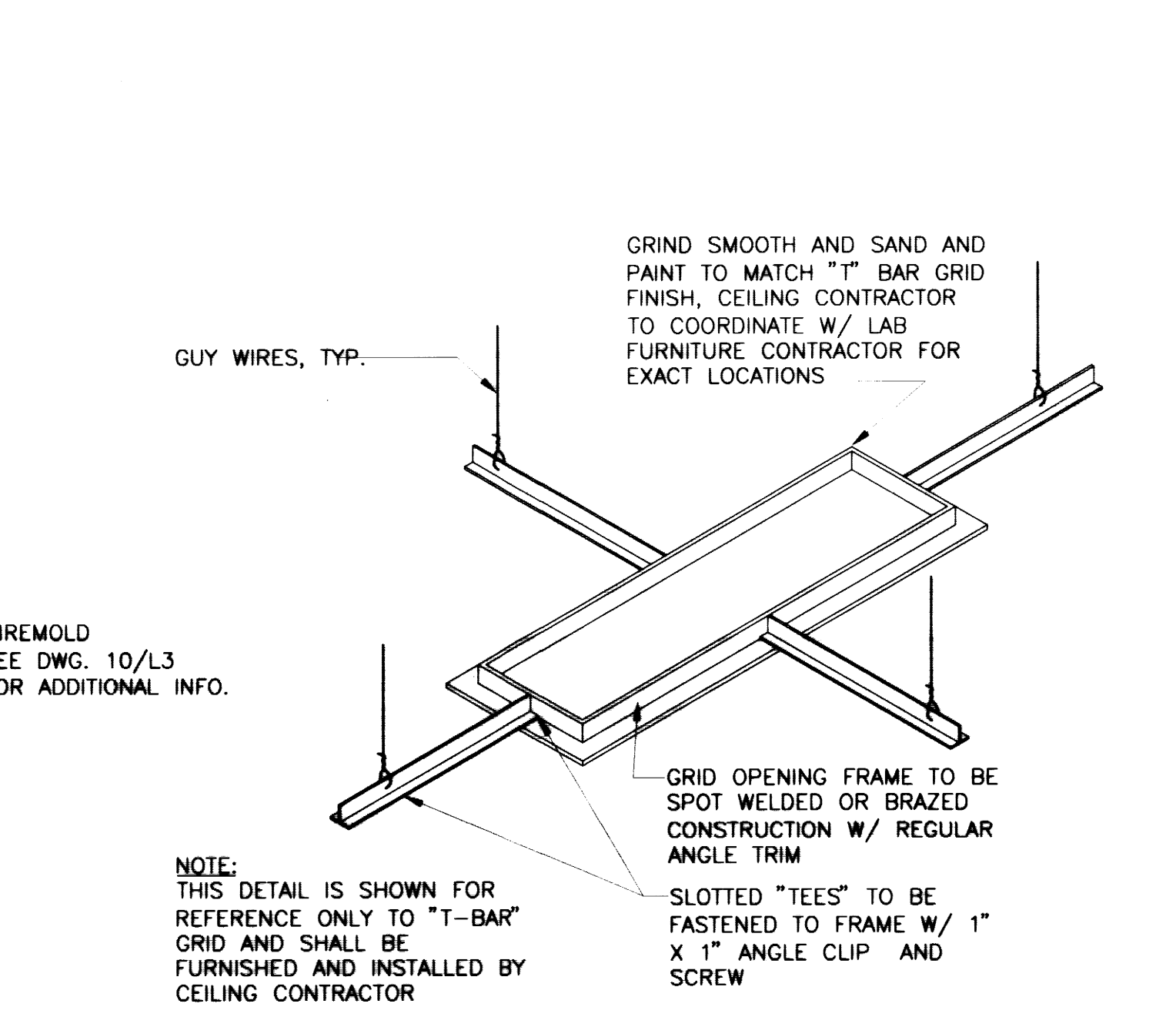
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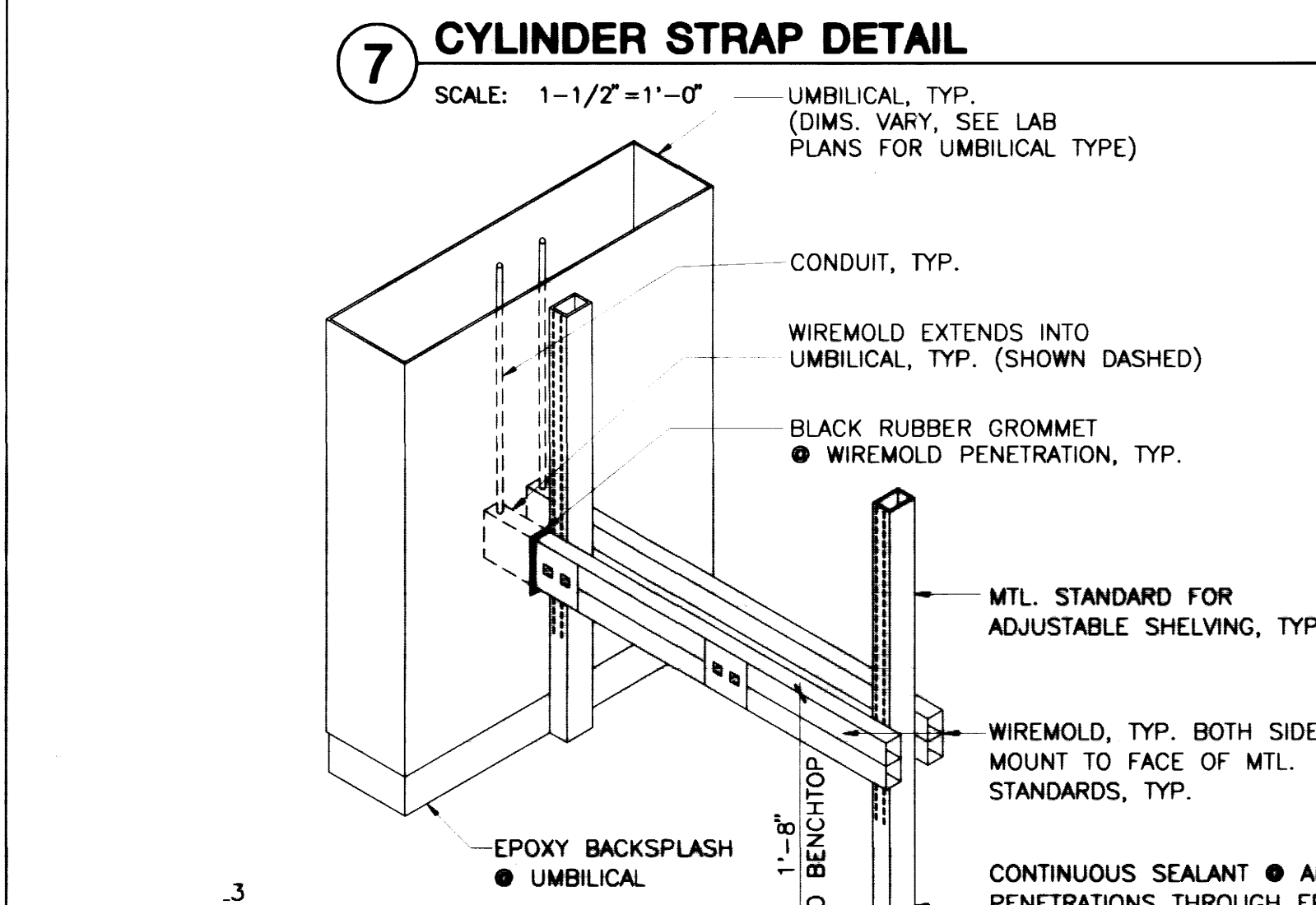
7 CYLINDER STRAP DETAIL
SCALE: 1-1/2"=1'-0"



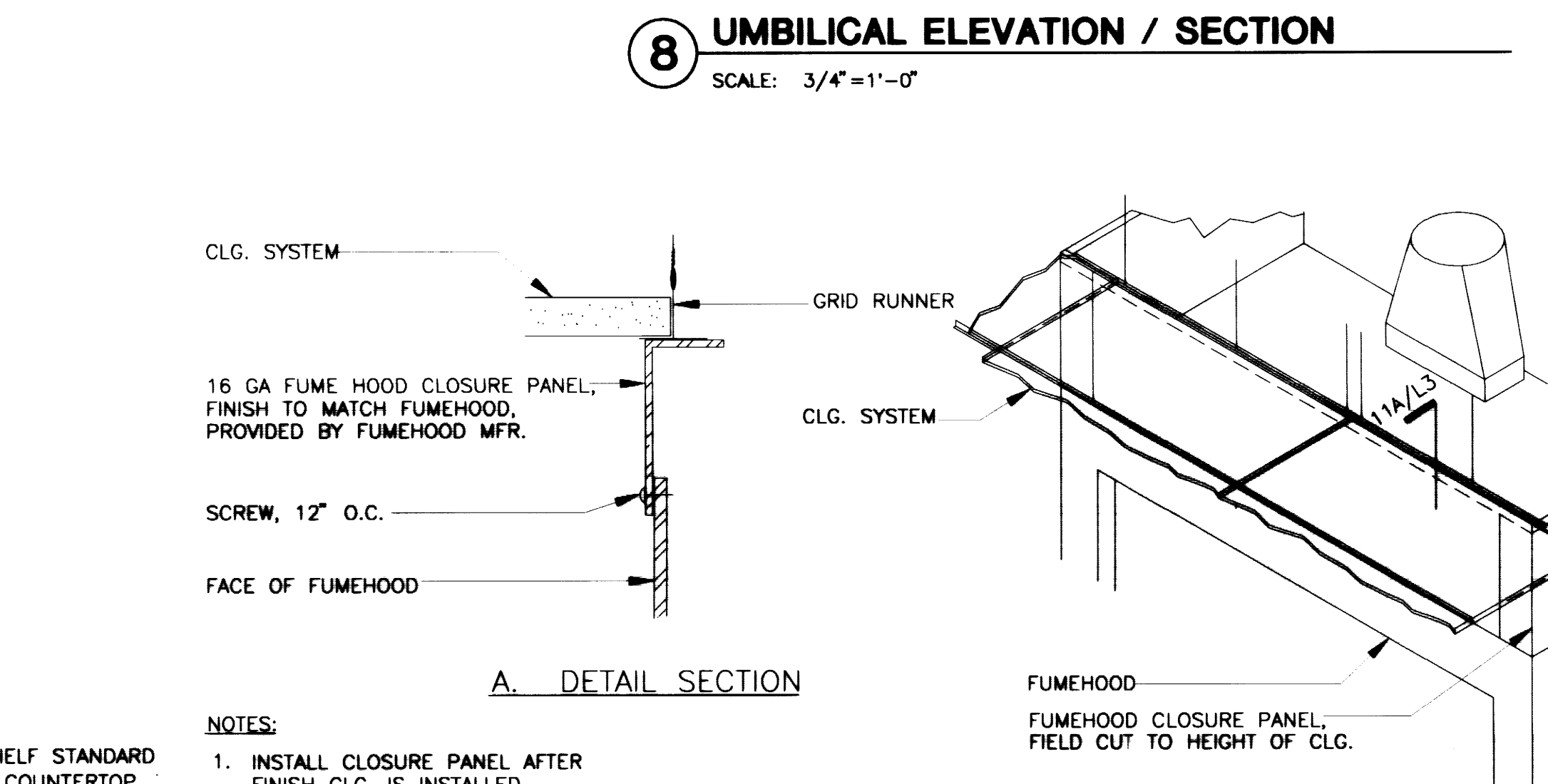
8 UMBILICAL ELEVATION / SECTION
SCALE: 3/4"=1'-0"



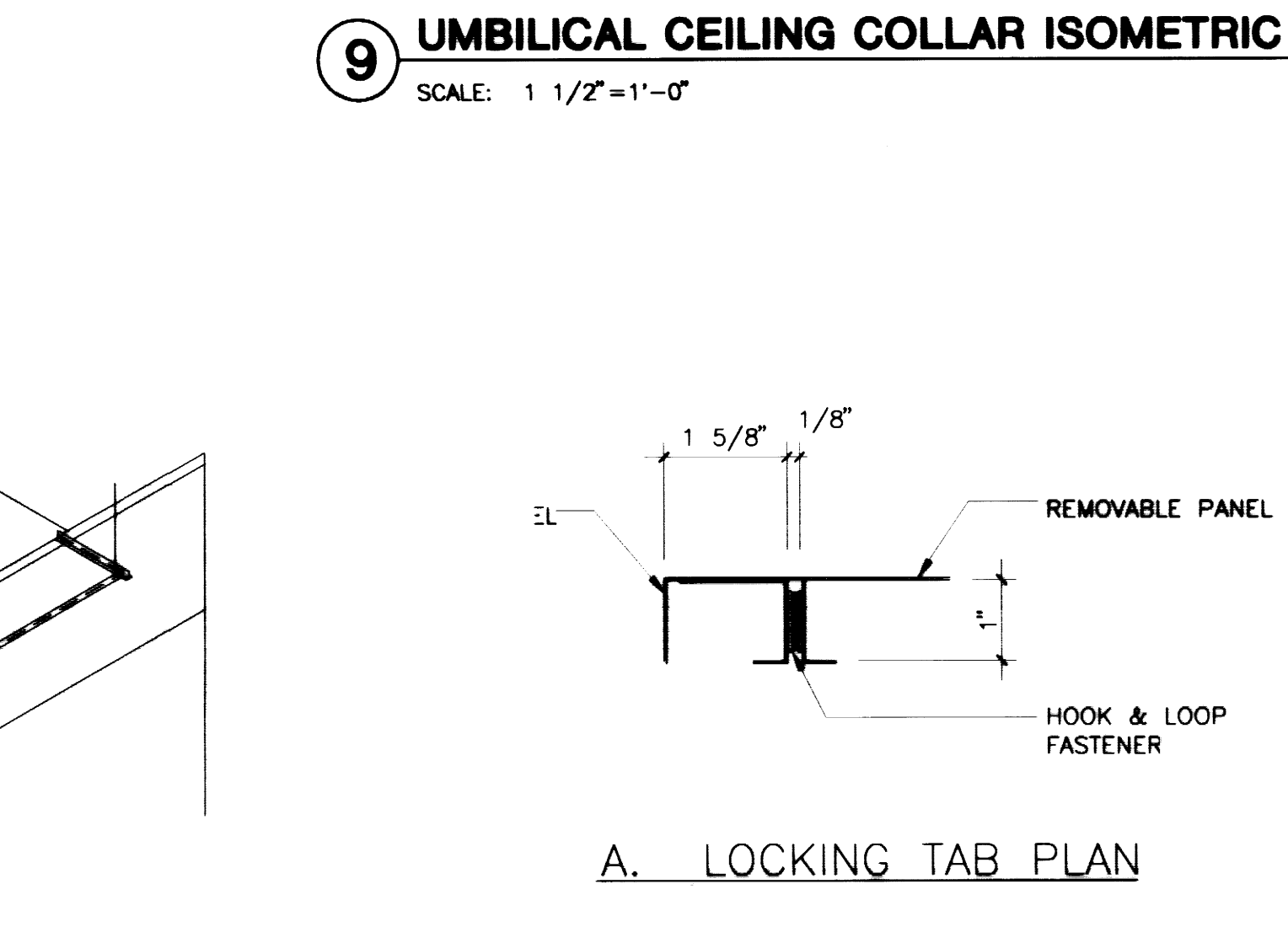
9 UMBILICAL CEILING COLLAR ISOMETRIC
SCALE: 1 1/2"=1'-0"



10 UMBILICAL / WIREMOLD ISOMETRIC
SCALE: 3/4"=1'-0"



11 FUMEHOOD DETAIL - CEILING
SCALE: NOT TO SCALE



12 UMBILICAL DETAILS
SCALE: 6"=1'-0"

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Laboratory Fit-Up
University of Kentucky

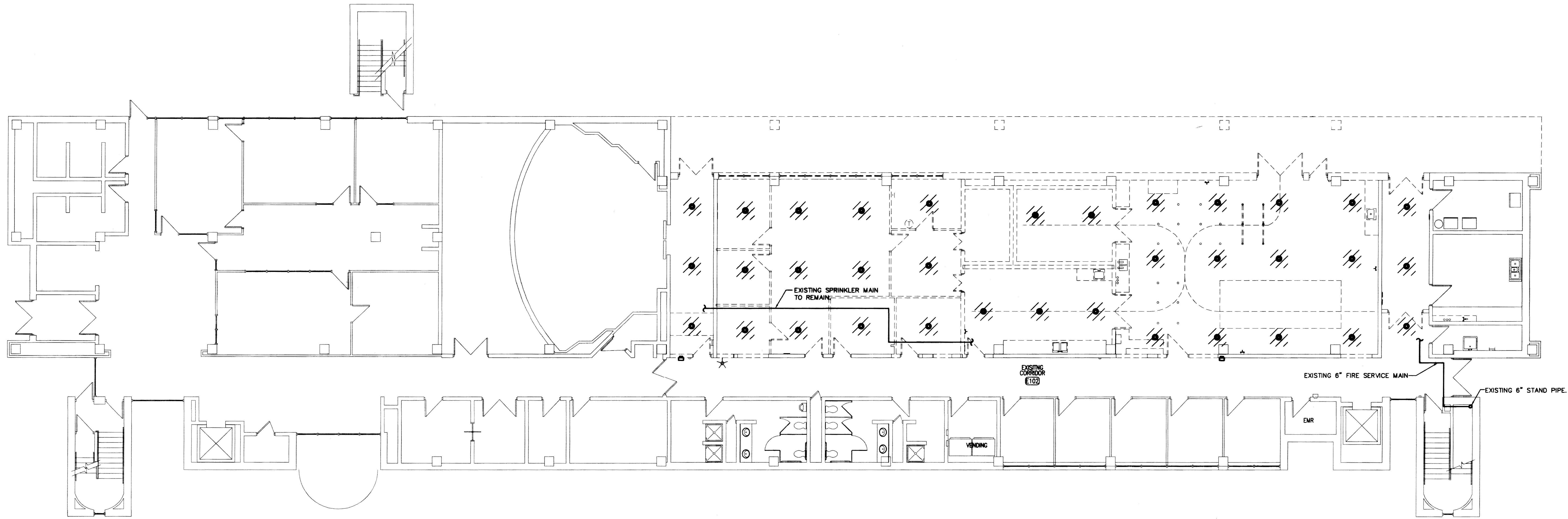
LABORATORY
ELEVATIONS
& DETAILS

RECORD DRAWINGS JUNE 18, 2003
Sherman Carter Barnhart PSC
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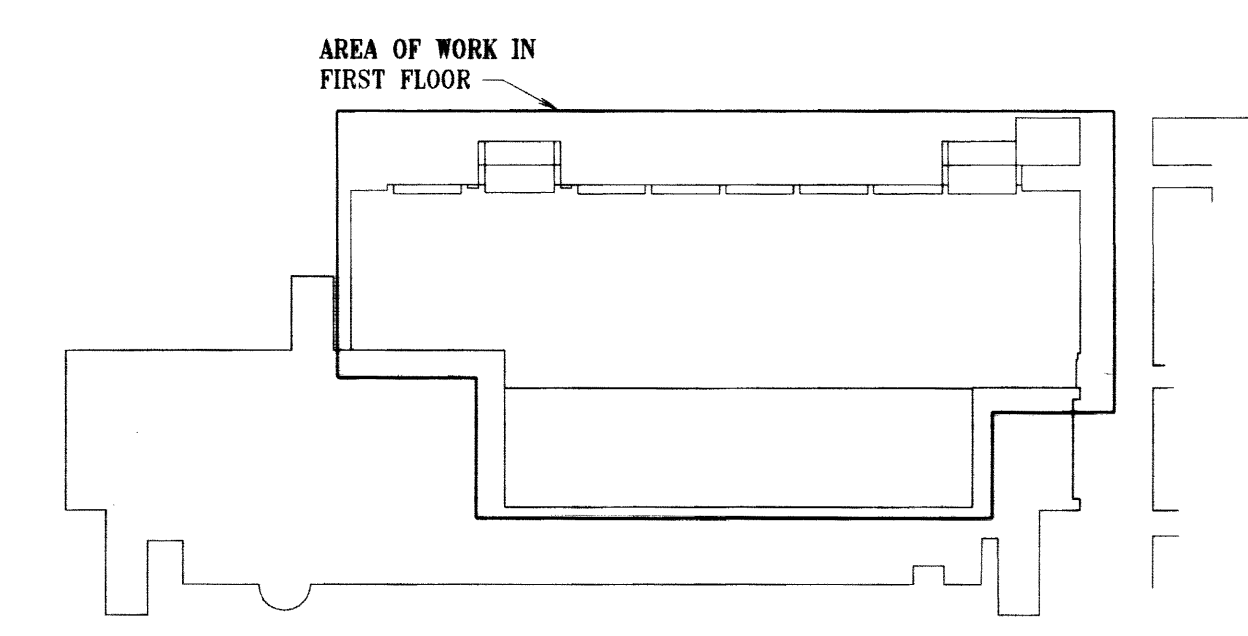


FIRST FLOOR FIRE PROTECTION REMOVAL PLAN
SCALE: 1/4"=1'-0"

LEGEND

	SPRINKLER TO BE REMOVED
	EXISTING SPRINKLER PIPE

- GENERAL REMOVAL NOTES:**
- EXISTING SPRINKLER PIPING MAY BE RE-USED TO THE GREATEST EXTENT POSSIBLE. ANY SPRINKLER PIPING THAT IS NOT RE-USED SHALL BE CAPPED AND REMOVED FROM PROJECT SITE.



12' 0" 5' 10' 15'
SCALE: 1/4"=1'-0"

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Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
2405 WINDYBUSH RD. • LEWISTON, KY 40304 • PH: 606-324-1351 • FAX: 606-324-1446

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Cab # 830c Document # 24841
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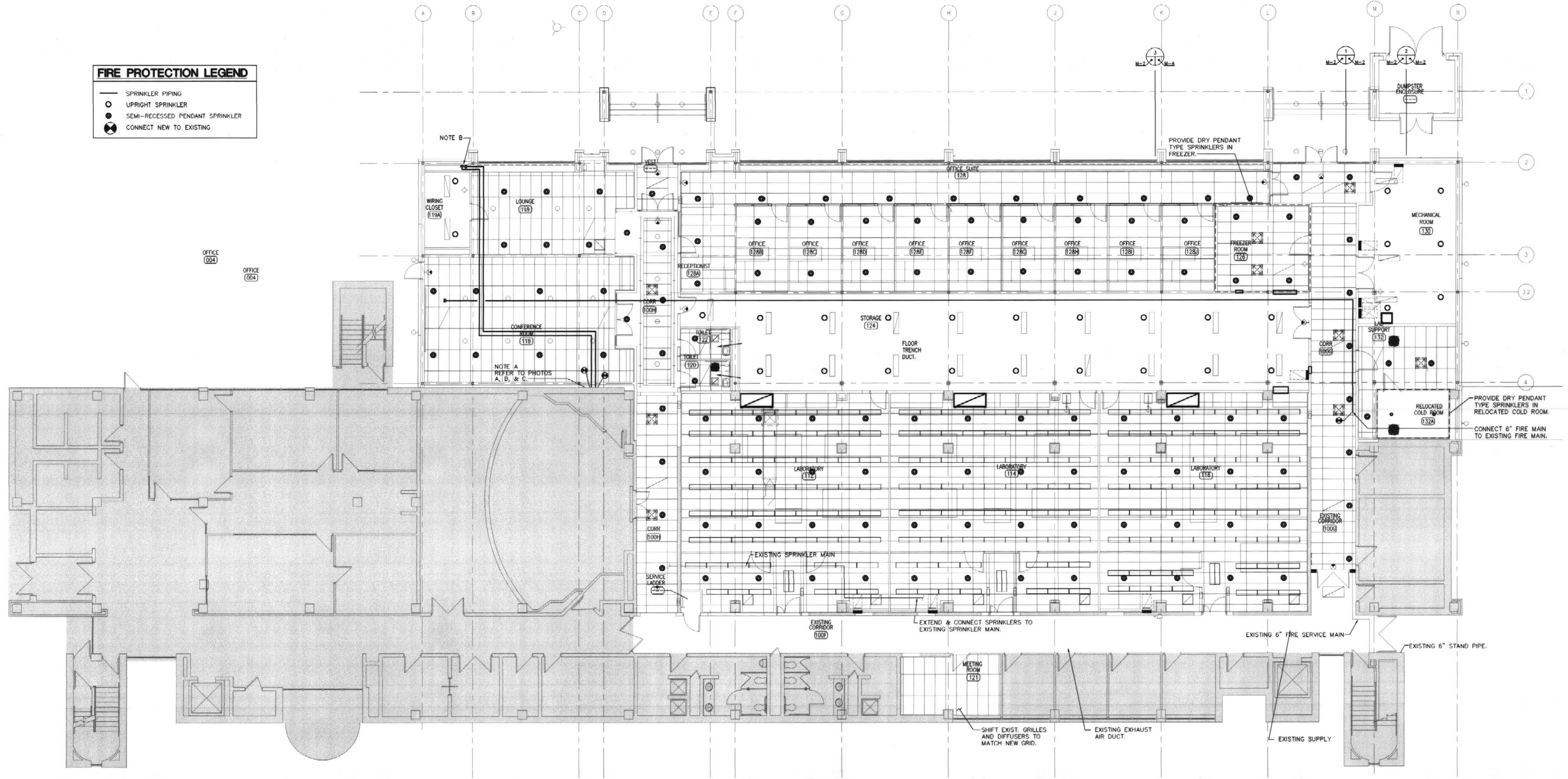
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Gluck Equine
Research Center Renovation
University of Kentucky

FIRST FLOOR
FIRE PROTECTION PLAN

FIRE PROTECTION LEGEND

- SPRINKLER PIPING
- UPRIGHT SPRINKLER
- SEMI-RECESSED PENDANT SPRINKLER
- ⊙ CONNECT NEW TO EXISTING



FIRST FLOOR FIRE PROTECTION PLAN
SCALE: 1/8"=1'-0"

GENERAL FIRE PROTECTION NOTES:

1. SPRINKLER INSTALLATION SHALL CONFORM TO NFPA 13, NFPA 101, AND THE KENTUCKY BUILDING CODE.
2. COORDINATE INSTALLATION OF ALL SYSTEMS WITH MECHANICAL (HVAC) SYSTEMS AND PLUMBING. CEILING CAVITY SPACE IS RESTRICTED AND INSTALLATION OF DUCTWORK SHALL TAKE PRIORITY OVER ALL OTHER TRADES. NO EXTRA COMPENSATION WILL BE ALLOWED TO COVER THE COST OF RELOCATING SYSTEMS FOUND ENDOUCHING ON SPACE REQUIRED BY MECHANICAL SYSTEMS.
3. PROVIDE FIRE STOPPING AT ALL WALL AND FLOOR PENETRATIONS.
4. THE CONTRACTOR SHALL PERFORM A FLOW TEST PRIOR TO COMPLETING SHOP DRAWING AND HYDRAULIC CALCULATIONS.
5. CONNECT SPRINKLERS INTO THE EXISTING FIRE MAIN NEAR SOUTHWEST STAIR TOWER. EXTEND EXISTING FIRE ZONE TO PROTECT ADDITION.

NOTES:

- A. EXISTING LOCATION OF THE FIRE DEPARTMENT CONNECTION AND THE FIRE PUMP TEST HEADERS.
- B. RELOCATE THE EXISTING FIRE DEPARTMENT CONNECTION AND THE EXISTING FIRE PUMP TEST HEADER CONNECTIONS. REMOVE EXISTING DEVICES IN SUCH A MANNER THAT RE-USE IS POSSIBLE. EXTEND EXISTING PIPING TO NEW LOCATION B.
- C. EXISTING SPRINKLERS SHALL NOT BE RE-USED.

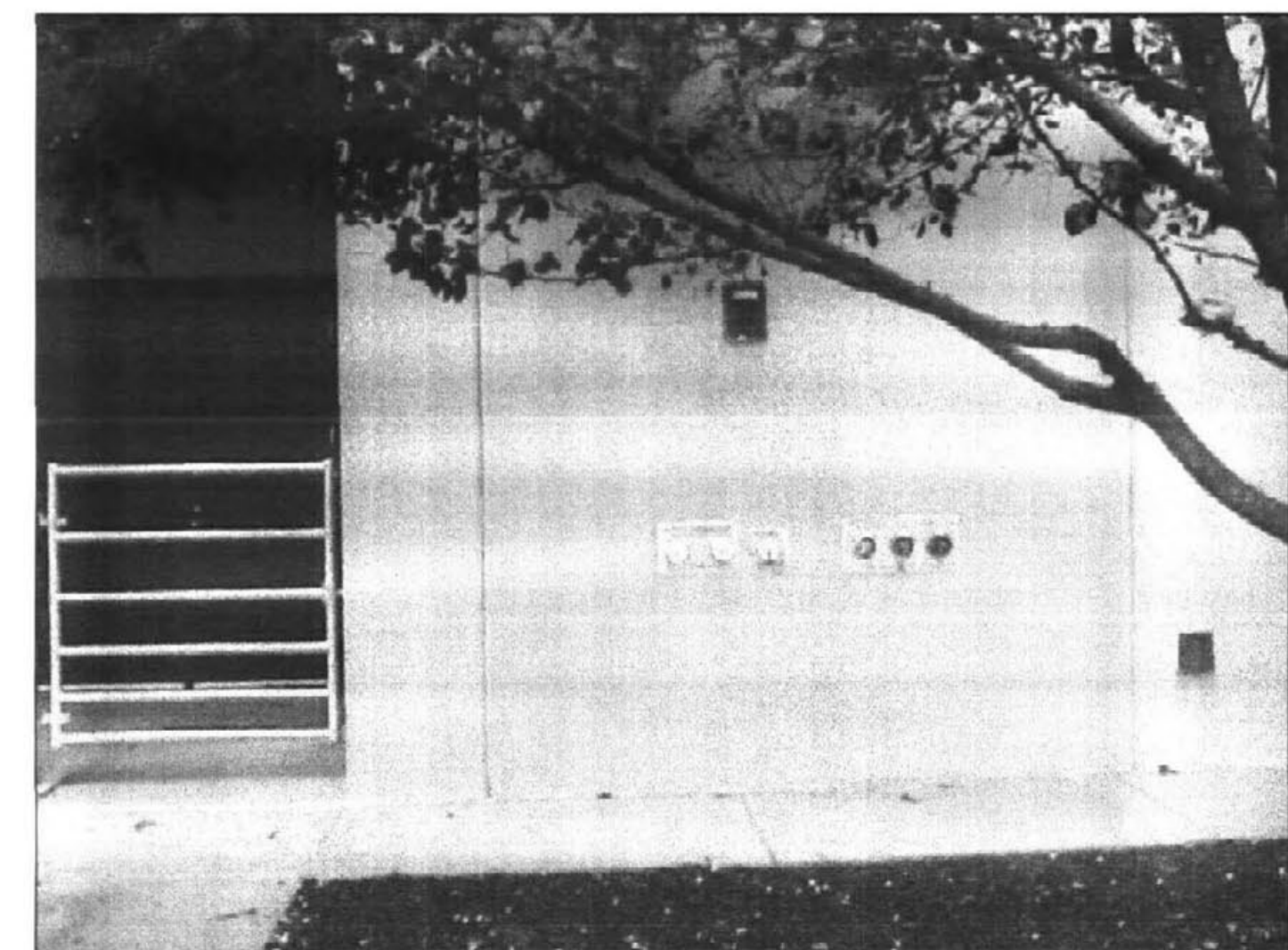


PHOTO A
SCALE: NONE
EXISTING FIRE DEPT. CONNECTION

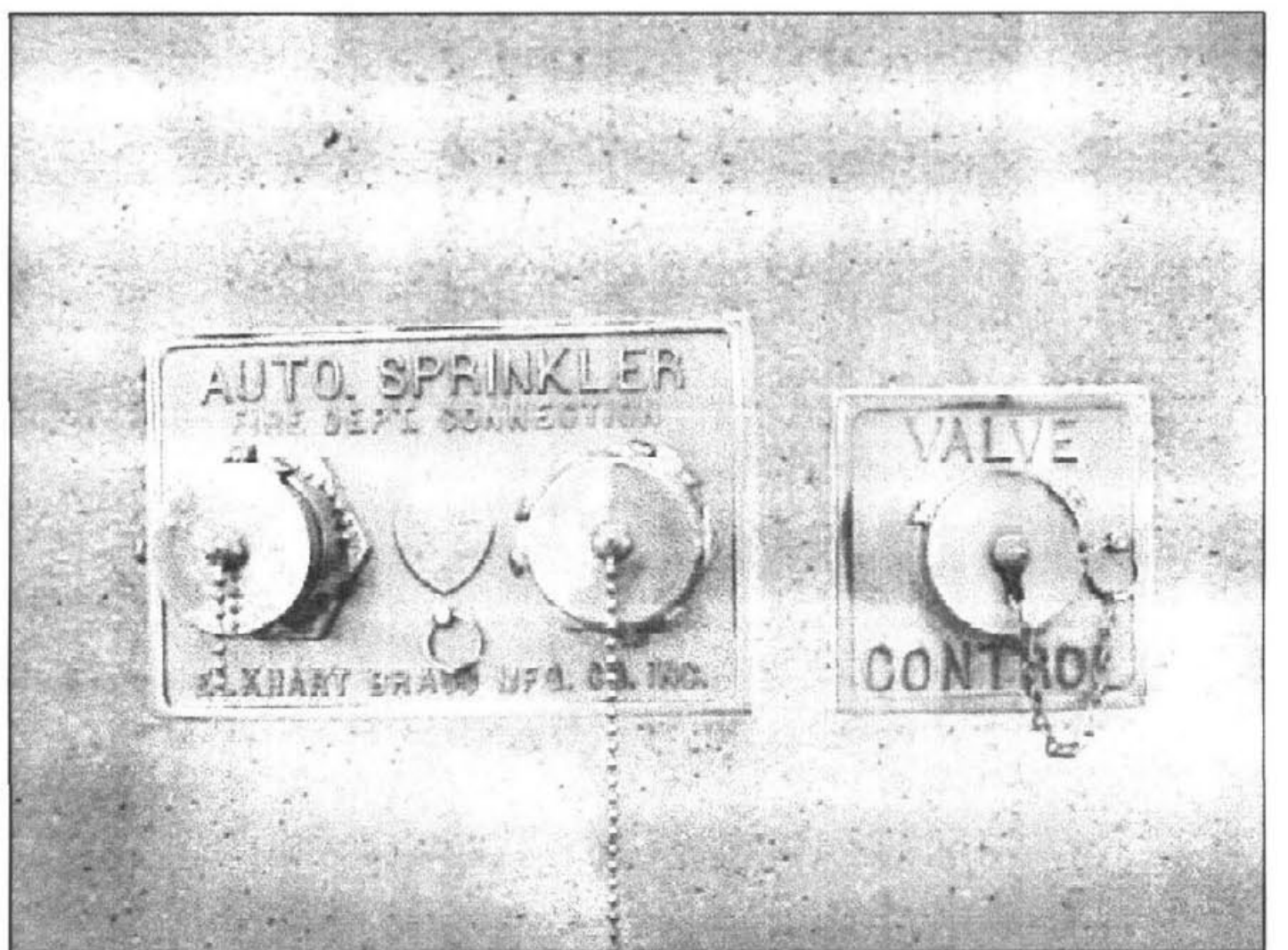


PHOTO B
SCALE: NONE
EXISTING FIRE DEPT. CONNECTION

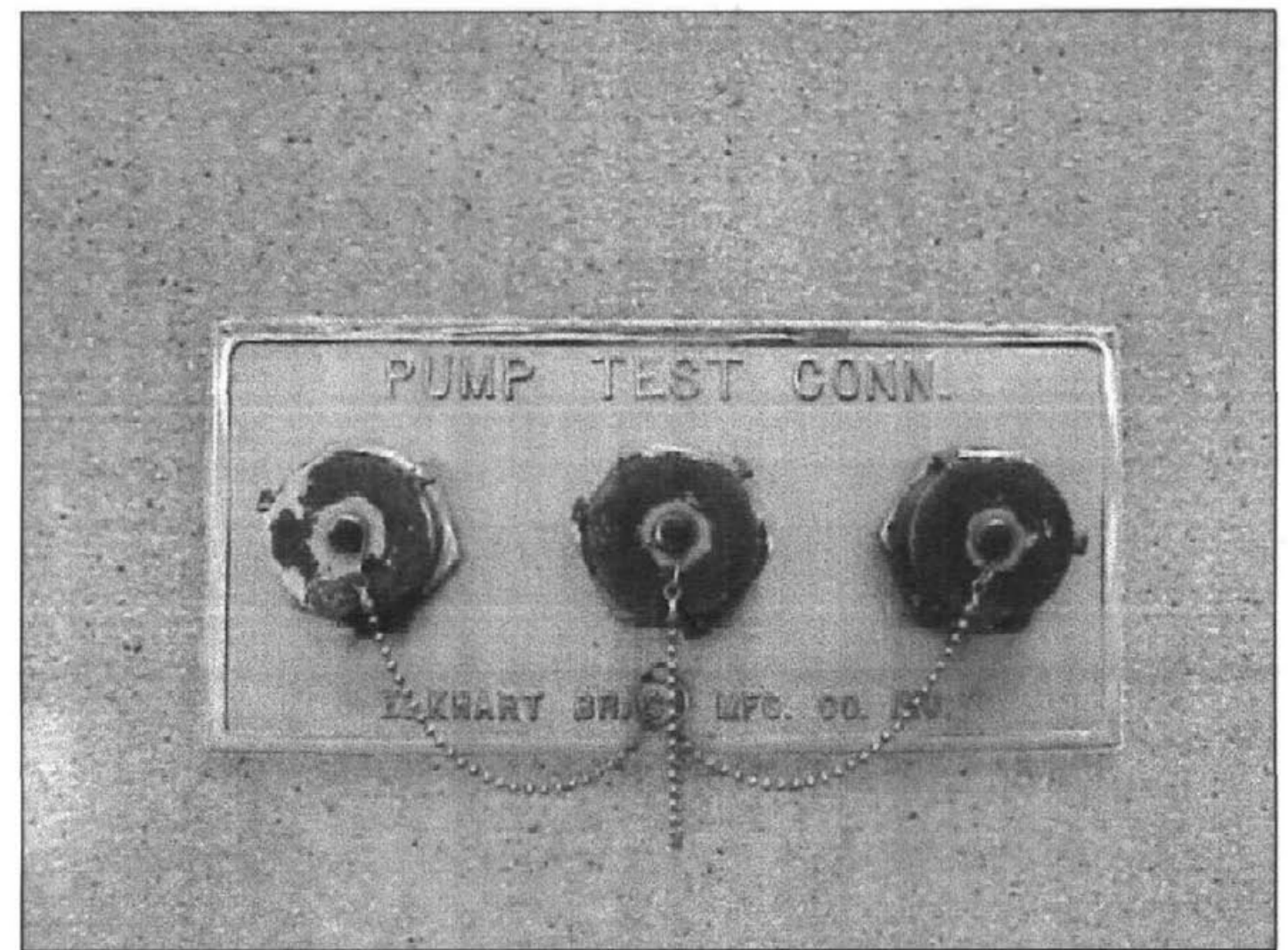
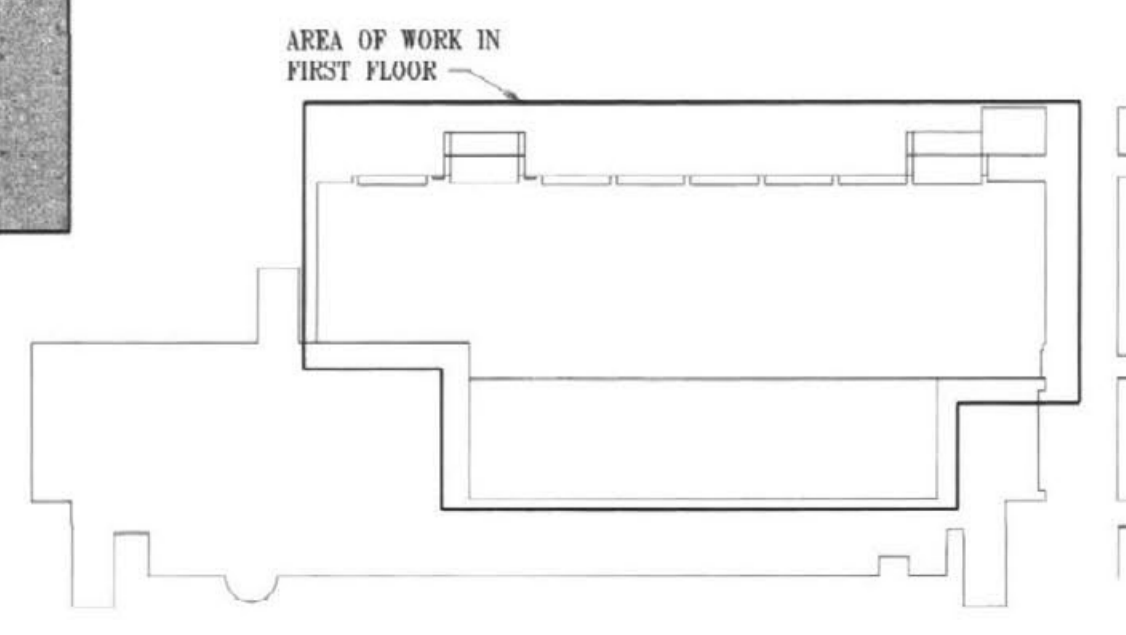


PHOTO C
SCALE: NONE
EXISTING FIRE DEPT. CONNECTION



KEY PLAN
SCALE: NONE

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

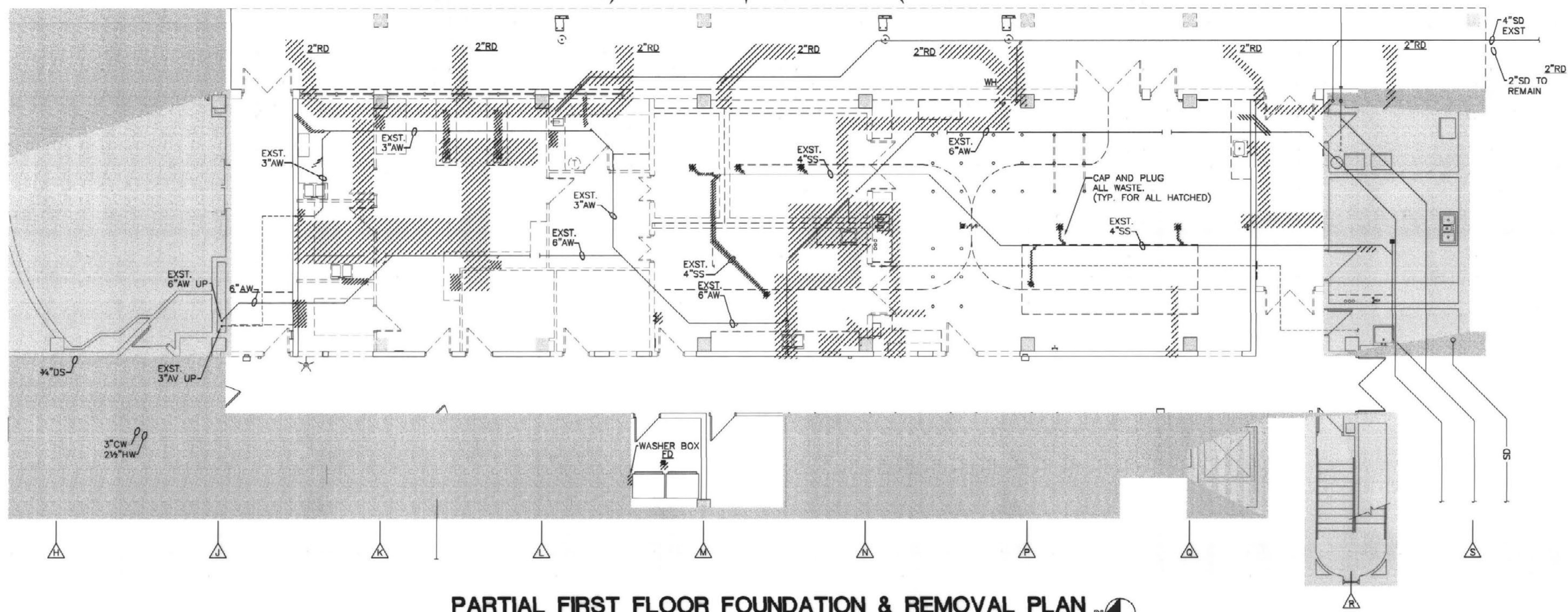
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F-2



PARTIAL FIRST FLOOR FOUNDATION & REMOVAL PLAN
SCALE: 1/8"=1'-0"

PLUMBING LEGEND

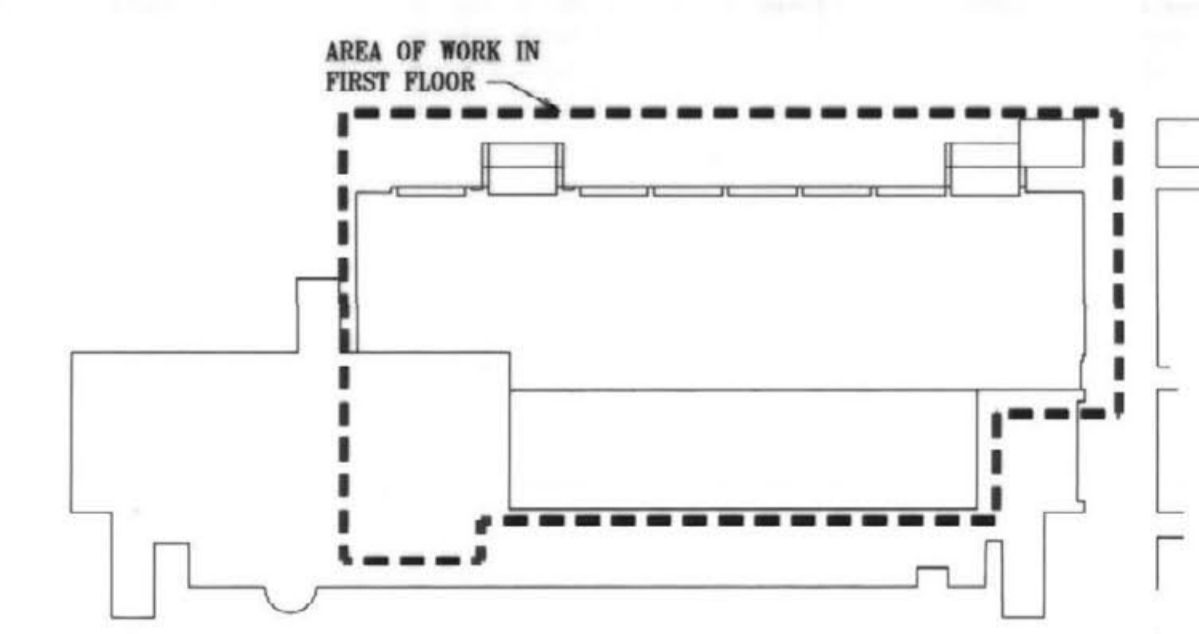
WC	WATER CLOSET - WALL HUNG	—	SANITARY SEWER
LAV	LAVATORY - WALL HUNG	—	SD
FD	FLOOR DRAIN	—	STORM DRAINAGE
AW	ACID WASTE	—	SANITARY VENT
AV	ACID VENT	—	AW
TRV	TEMPERATURE REGULATING VALVE	—	ACID WASTE DRAINAGE
DWH	DOMESTIC WATER HEATER	—	AV
RD	ROOF DRAIN	—	ACID VENT
OD	OVERFLOW DRAIN	—	CW
CO	CLEANOUT	—	DOMESTIC COLD WATER
WH	WALL HYDRANT	—	HW
HB	HOSE BIBB	—	DOMESTIC HOT WATER
AD	AREA DRAIN	—	HR
EW	EYE WASH	—	DOMESTIC HOT WATER RETURN
ES/EW	EMERGENCY SHOWER/EYE WASH	—	G
FH	FUME HOOD	—	NATURAL GAS
LSK	LAB SINK	—	HA
WCO	WALL CLEANOUT	—	HOUSE AIR
VTR	VENT THRU ROOF	—	MV
RGV	ROOM GAS VALVE	—	MEDICAL VACUUM
EXST	EXISTING	—	DI
		—	DEIONIZED WATER SUPPLY
		—	DR
		—	DEIONIZED WATER RETURN
		—	TW
		—	TEMPERED WATER
		—	SV
		—	SHUT-OFF VALVE
		—	BV
		—	BALL VALVE
		—	CV
		—	CHECK VALVE
		—	RP
		—	REDUCED PRESSURE BACKFLOW PREVENTER
		—	U
		—	UNION
		—	F
		—	FLOW - IN DIRECTION OF ARROW
		—	R
		—	RISER DOWN
		—	R
		—	RISER UP
		—	V
		—	VALVE IN VERTICAL
		—	R
		—	RISER OR DROP
		—	B
		—	BRANCH CONNECTION
		—	C
		—	CAP ON END OF PIPE
		—	C
		—	CONNECTION POINT - NEW TO EXISTING
		—	E
		—	EQUIPMENT BEING REMOVED

GENERAL PLUMBING REMOVAL NOTES:

1. THESE REMOVAL DRAWINGS SHALL SERVE TO AID THE CONTRACTOR IN HIS EVALUATION OF THE EXTENT OF REMOVALS, BUT SHALL NOT BE HELD TO BE ALL INCLUSIVE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE BUILDING AND SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. VERIFY SIZE, LOCATION, AND USAGE OF UTILITIES AND EQUIPMENT PRIOR TO REMOVAL.
3. FOR FURTHER INFORMATION WITH REGARD TO THE EXTENT OF REMOVALS, SEE NEW CONSTRUCTION PLANS WHICH ILLUSTRATE THE NEW CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED FOR THE INSTALLATION REQUIRED FOR THE INSTALLATION OF NEW WORK.
5. ALL PLUMBING FIXTURES INDICATED AS CROSS HATCHED OR NOTED, SHALL BE DISCONNECTED AND REMOVED.
6. THE CONTRACTOR SHALL REMOVE ALL WASTE, VENT AND WATER PIPING ASSOCIATED WITH THE REMOVED PLUMBING FIXTURES INDICATED AS CROSS HATCHED OR NOTED.
7. ALL EQUIPMENT REMOVED FOR RELOCATION SHALL BE REMOVED IN SUCH A MANNER THAT REUSE IS POSSIBLE.
8. CAP AND/OR PLUG WASTE, VENT & WATER PIPING VOIDED BY THE REMOVAL OF FIXTURES AND EQUIPMENT. PATCH ALL OPENINGS IN WALLS, FLOORS, AND CEILING WHERE THE REMOVAL OF FIXTURES AND EQUIPMENT CREATES SUCH OPENINGS. PATCH OPENINGS TO MATCH EXISTING.
9. IF PORTIONS OF PIPING SERVING FIXTURES AND EQUIPMENT TO REMAIN MUST BE RELOCATED OR REMOVED DUE TO OTHER REMOVAL OR DUE TO INTERFERENCE WITH NEW FIXTURES AND EQUIPMENT INSTALLATION, FIXTURES AND EQUIPMENT INSTALLATION. THE PIPING SHALL BE MODIFIED IN SUCH A MANNER WHICH WILL ENSURE PROPER OPERATION OF THE FIXTURE AND EQUIPMENT AFTER CONSTRUCTION IS COMPLETE. USE THE SAME SIZE & TYPE PIPING AS THE EXISTING TO MAKE THE REQUIRED MODIFICATIONS. EXISTING PIPING EXPOSED DURING REMOVALS WHICH REMAIN TO SERVE EQUIPMENT SHALL BE RESUPPORTED IN ACCORDANCE WITH THE STATE PLUMBING CODE.
10. ALL REMOVED ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE OWNER'S PROPERTY AND DISPOSED OF IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

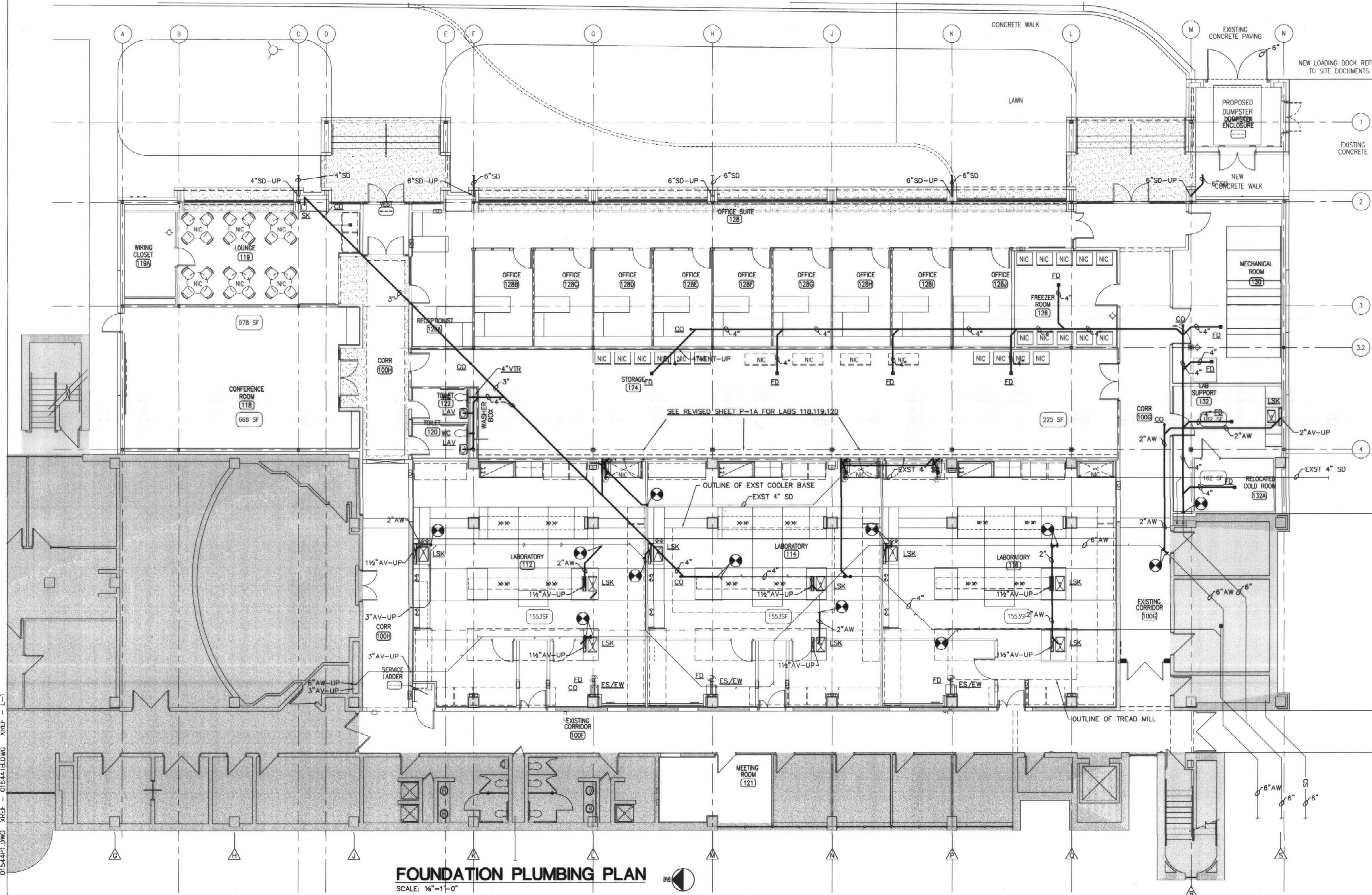
GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES THAT ARE SUPPLIED BY THE CASEWORK CONTRACTOR.
2. PLUMBING CONTRACTOR SHALL CONNECT ALL PIPING TO PLUMBING FIXTURES THAT ARE SUPPLIED BY CASEWORK CONTRACTOR. PLUMBING CONTRACTOR SHALL WORK CLOSE WITH THE CASEWORK CONTRACTOR SO THAT ALL PLUMBING FIXTURES ARE INSTALLED, CONNECTED, AND PROPERLY WORKING. ALL PIPING SHALL MEET STATE AND LOCAL CODES.
3. ES/EW SHALL BE INSTALLED TO COMPLY WITH UK STANDARDS AND ALL APPLICABLE CODES.

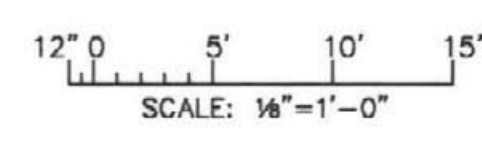


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SCALE: NONE

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FOUNDATION PLUMBING PLAN
SCALE: 1/8"=1'-0"



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FIRST FLOOR REMOVAL AND FOUNDATION PLUMBING PLANS

RECORD DRAWINGS JUNE 18, 2003

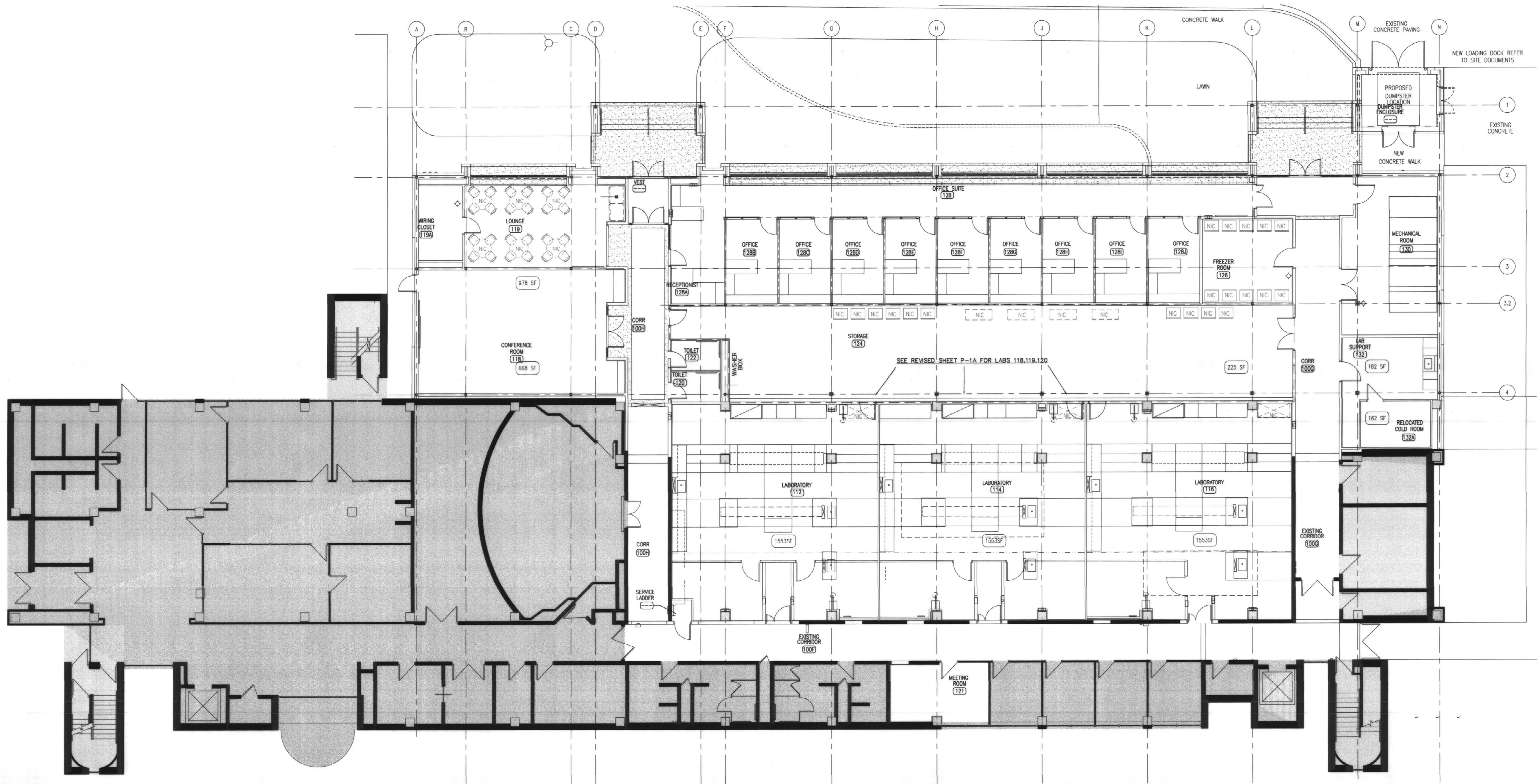
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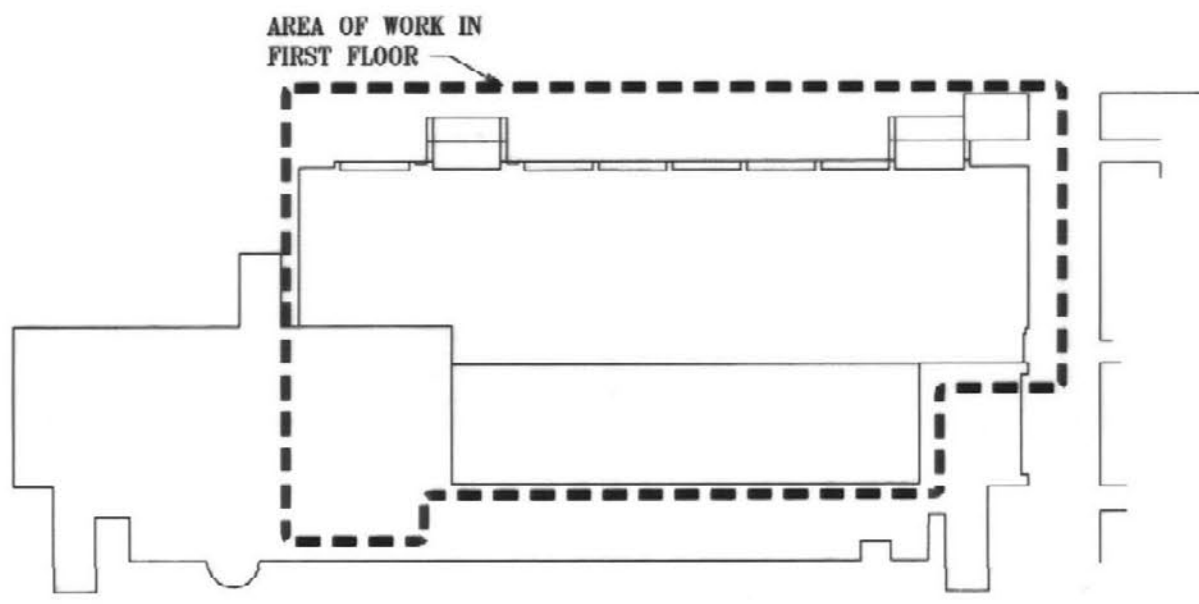


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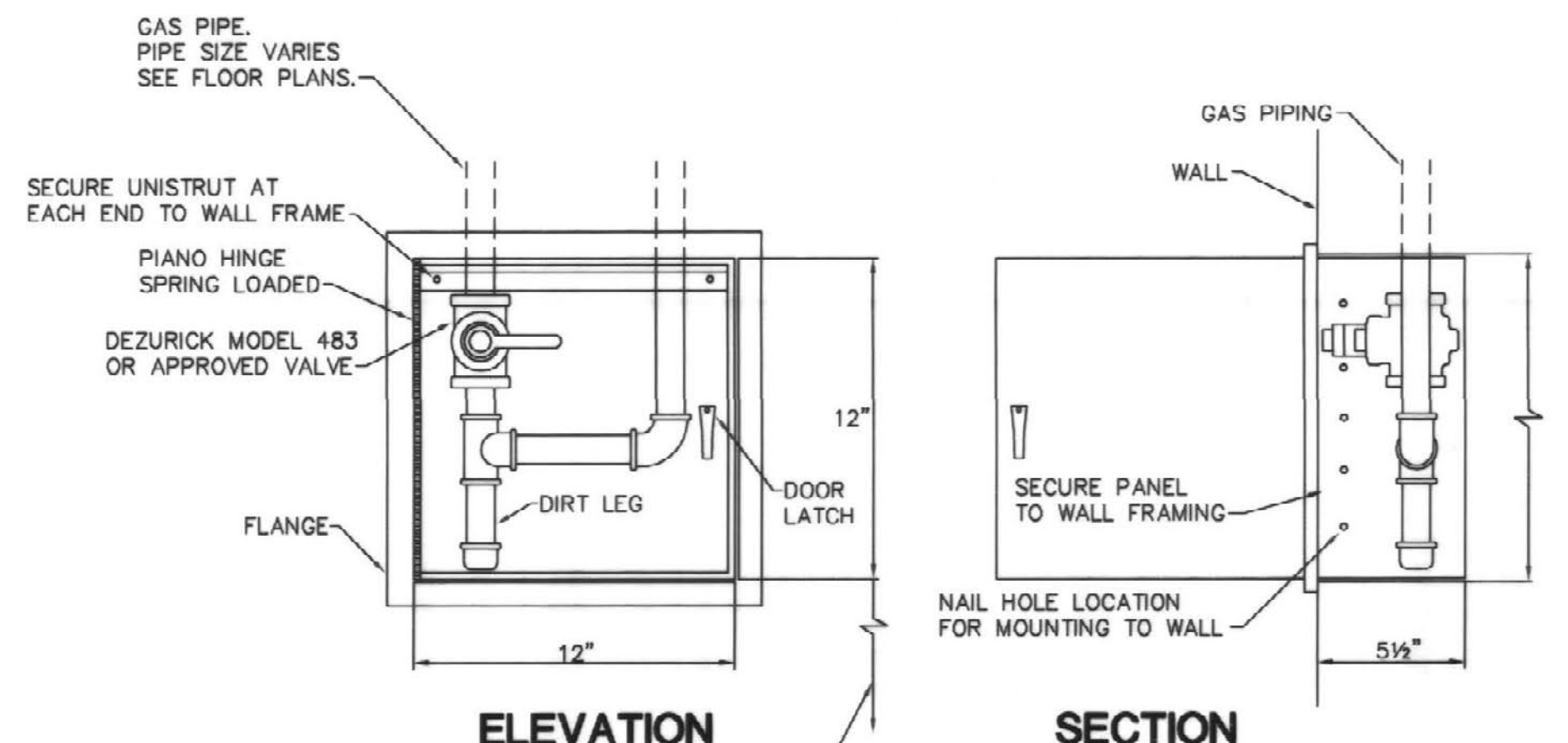
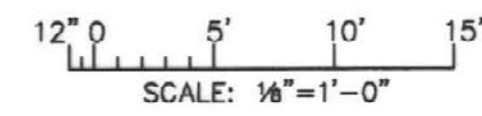
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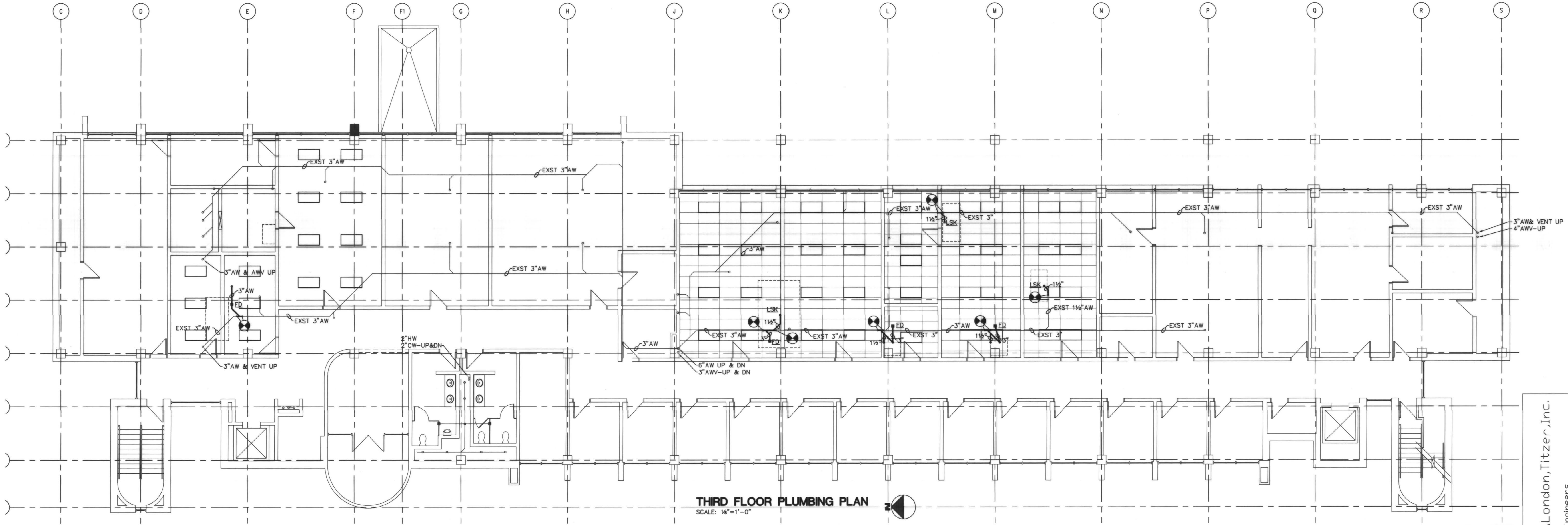
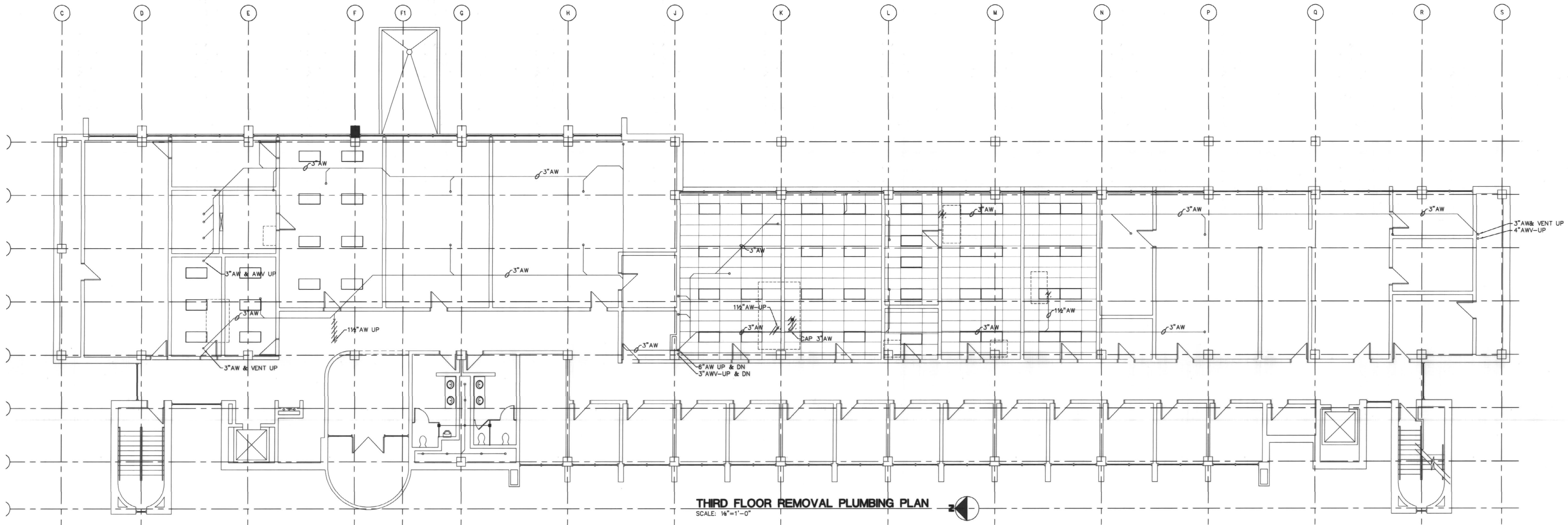


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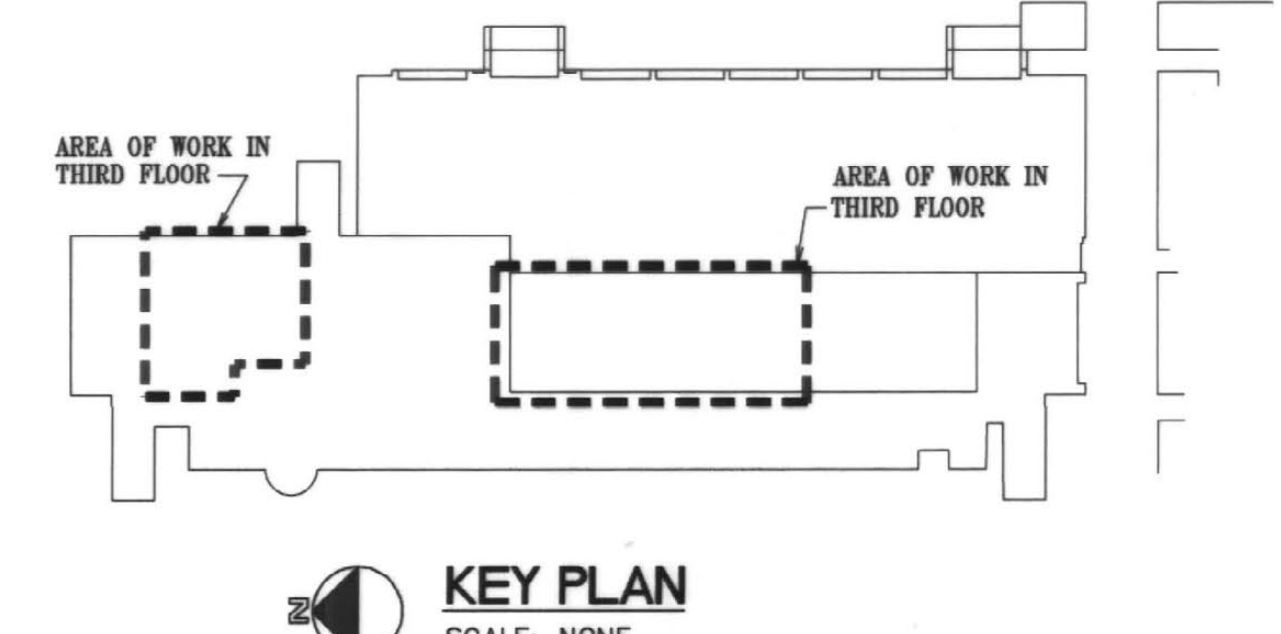


ROOM GAS SHUT-OFF
NOTE: NOT TO SCALE

NOTE: GAS VALVE CABINET MANUFACTURER SHALL BE WETCRAFT MODEL 2B-A OR EQUAL FULLY RECESSED TYPE 304 STAINLESS STEEL CABINET BODY IS 16 GAGE WITH DOOR AND FLANGE 14 GAGE PIANO TYPE HINGE CONTINUOUS WITH ALL CONSTRUCTION WELDED & POLISHED TO #4 SATIN FINISH. PROVIDE OPTION QUARTER-TURN T-HANDLE LATCH. INCLUDE 1/2" LETTERING SELF ADHESIVE BACK INSTALLATION IN FIELD. (VERIFY VALVE DIMENSIONS WITH CABINET FURNISHED.)



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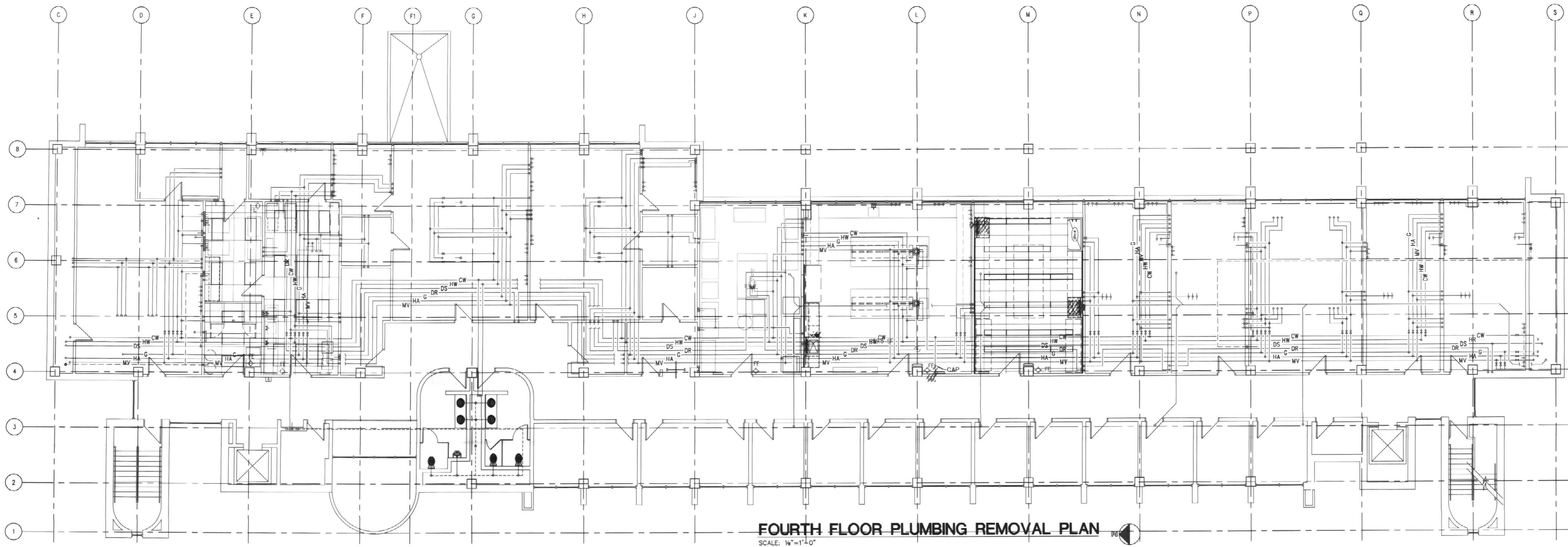
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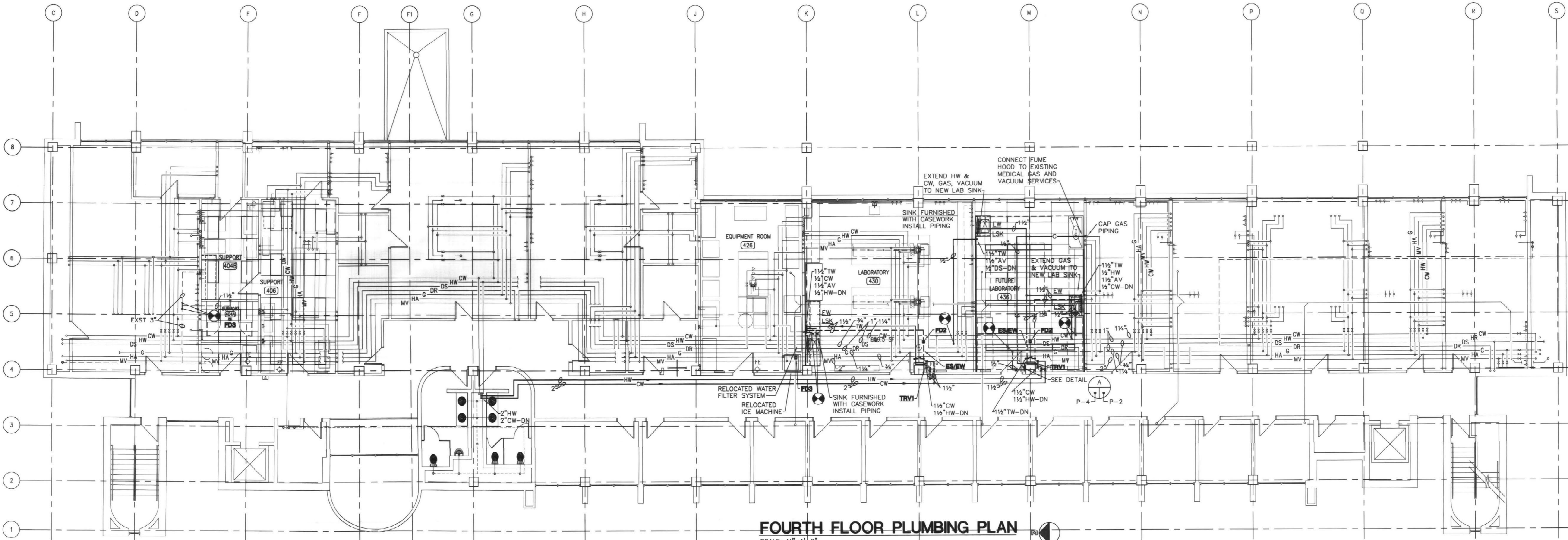
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THIRD FLOOR REMOVAL
AND PLUMBING PLANS

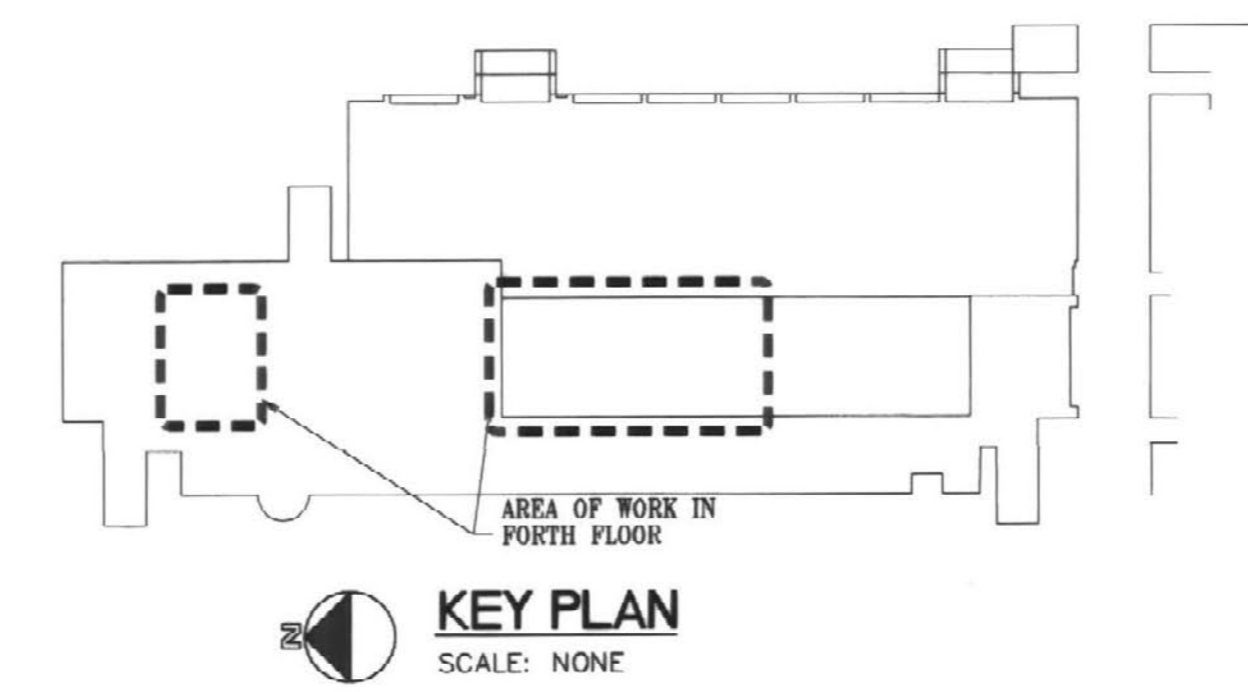
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FOURTH FLOOR PLUMBING REMOVAL PLAN
SCALE: 1/8"=1'-0"



FOURTH FLOOR PLUMBING PLAN
SCALE: 1/8"=1'-0"

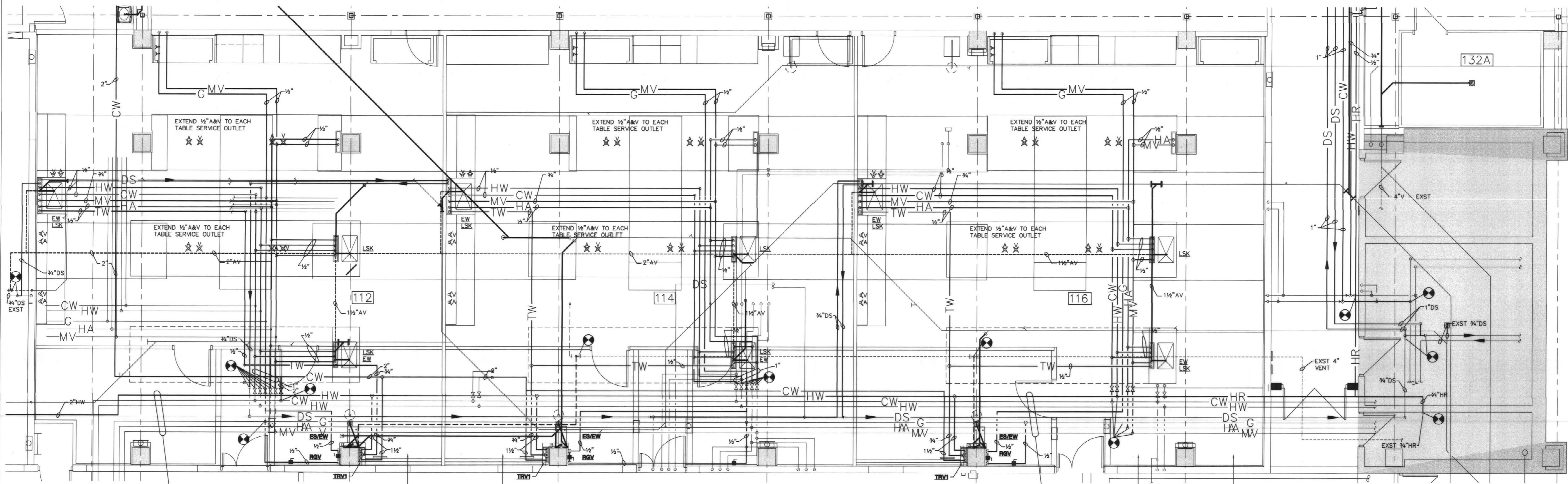


KEY PLAN
SCALE: NONE

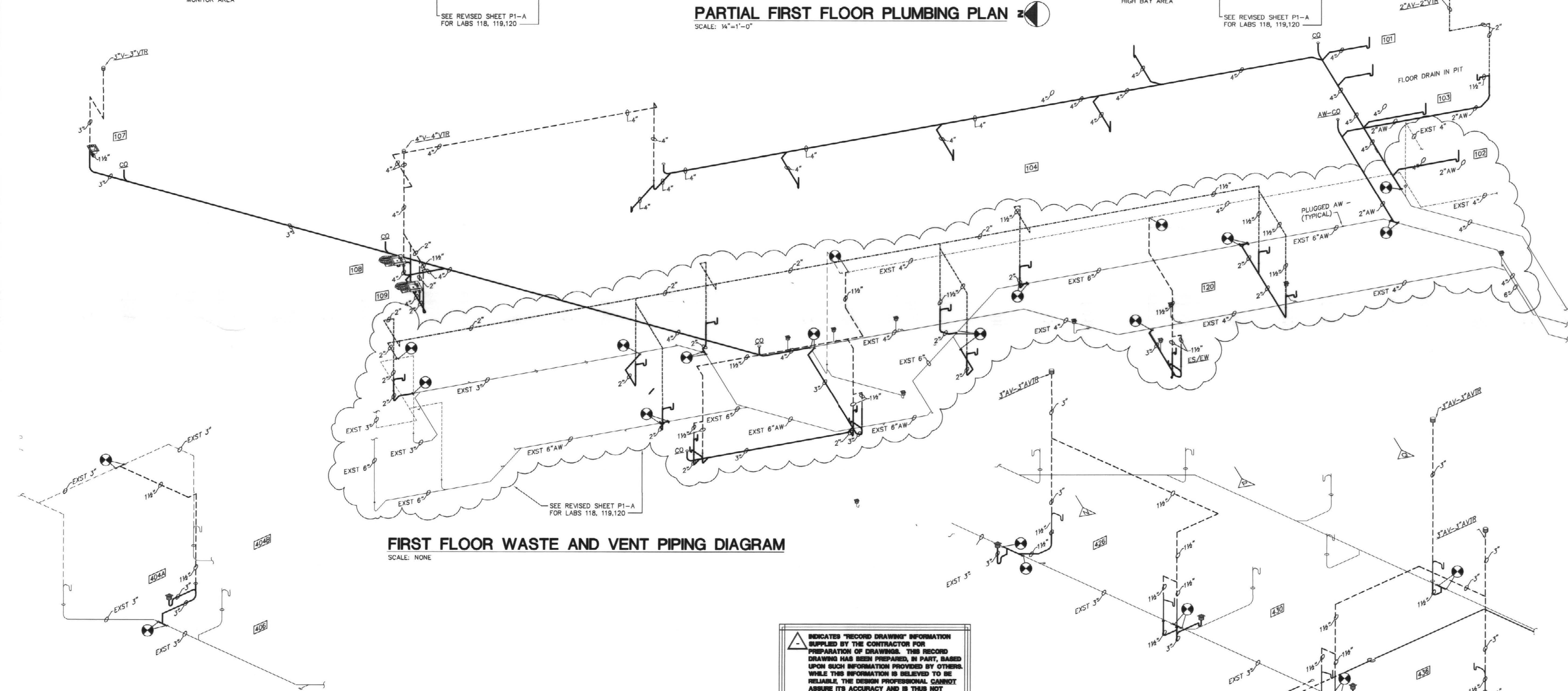
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PARTIAL FIRST FLOOR PLUMBING PLAN
SCALE: 1/4"=1'-0"



FIRST FLOOR WASTE AND VENT PIPING DIAGRAM
SCALE: NONE

FOURTH FLOOR WASTE AND VENT PIPING DIAGRAM
SCALE: NONE

FOURTH FLOOR WASTE AND VENT PIPING DIAGRAM
SCALE: NONE

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WASTE AND VENT PIPING
DIAGRAMS AND DETAILS

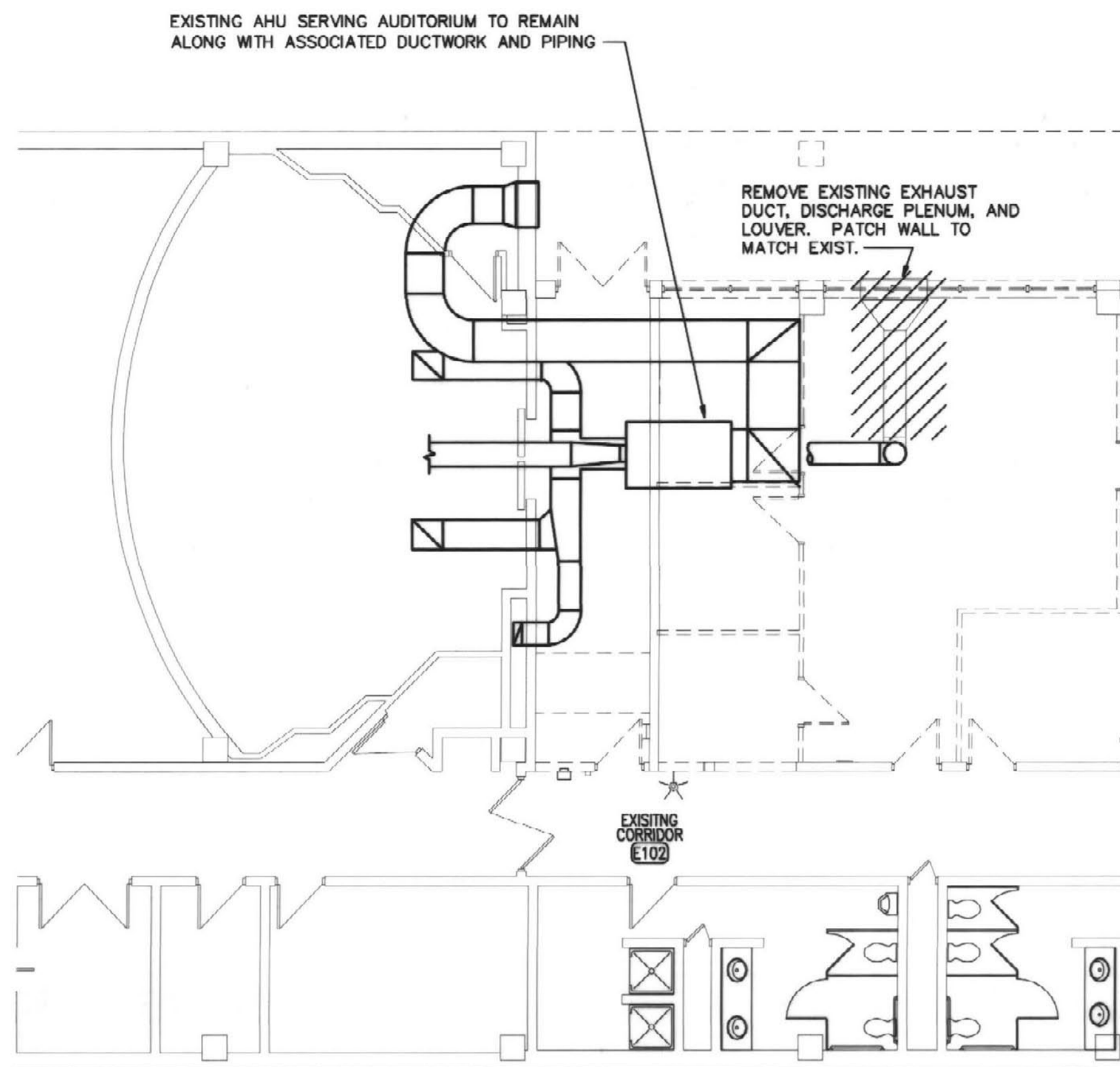
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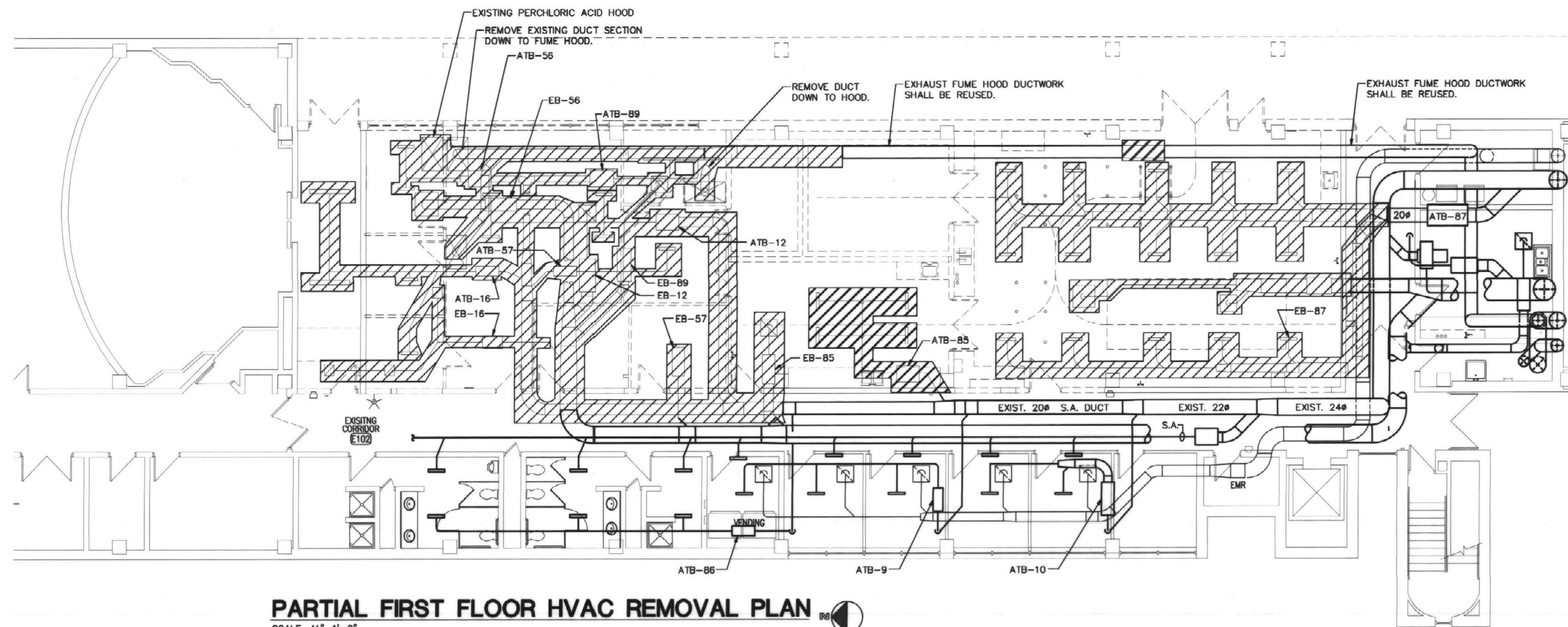
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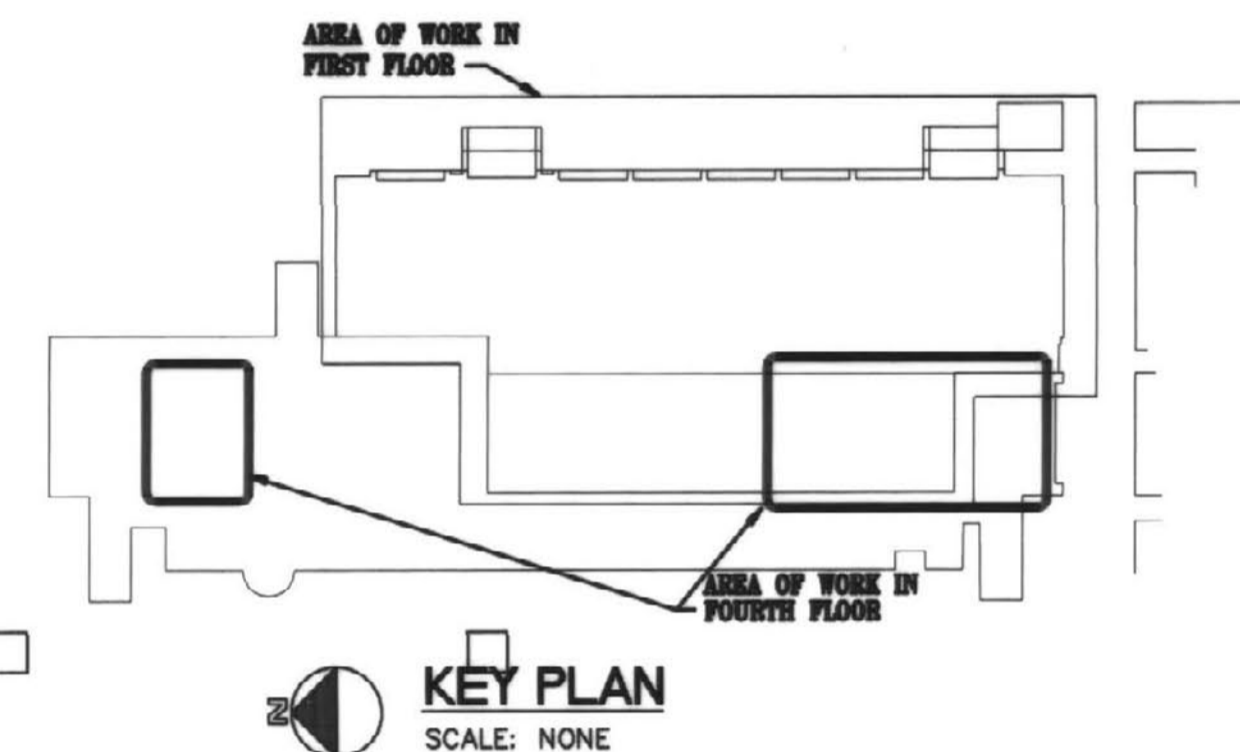
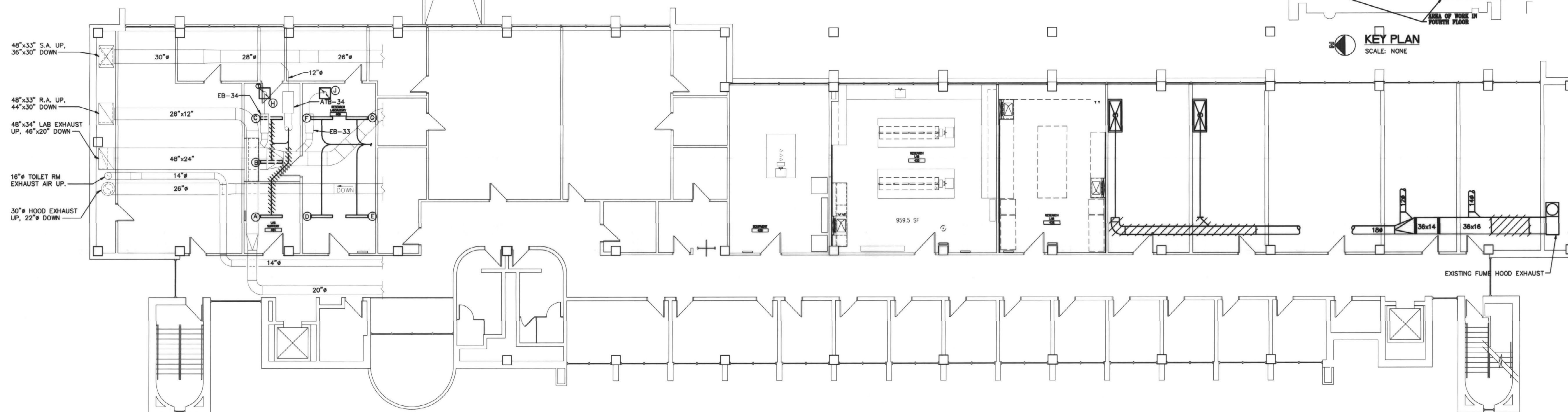


PARTIAL FIRST FLOOR HVAC REMOVAL PLAN
SCALE: 1/4"=1'-0"



PARTIAL FIRST FLOOR HVAC REMOVAL PLAN
SCALE: 1/4"=1'-0"

REMOVAL NOTES:
1. REMOVE EXISTING GRILLES (A) THRU (I) SUCH THAT GRILLES CAN BE RE-INSTALLED IN NEW CEILING.



FOURTH FLOOR HVAC REMOVAL PLAN
SCALE: 1/4"=1'-0"

GENERAL REMOVAL NOTES

- THE REMOVAL DRAWINGS SHALL SERVE TO AID THE CONTRACTOR IN THE EVALUATION OF THE EXTENT OF REMOVALS, BUT SHALL NOT BE HELD TO BE ALL INCLUSIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE AREA TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. VERIFY SIZE, LOCATION, AND USAGE OF EXISTING UTILITIES PRIOR TO REMOVAL. FOR FURTHER INFORMATION WITH REGARD TO THE EXTENT OF REMOVALS, SEE THE NEW CONSTRUCTION DRAWINGS WHICH SHOW WORK TO BE PERFORMED.
- OWNER SHALL BE GIVEN FIRST CHOICE ON ALL EQUIPMENT BEING REMOVED THAT WILL NOT BE REUSED OR RELOCATED. ALL ITEMS REMOVED, AND NOT KEPT BY OWNER, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SAID ITEMS MUST BE DISPOSED OF PROPERLY OFF THE OWNER'S PROPERTY. EQUIPMENT BEING REMOVED OR RELOCATED SHALL BE REMOVED IN SUCH A MANNER THAT REUSE IS POSSIBLE AND STORED AS DIRECTED BY OWNER.
- CONTRACTOR SHALL REMOVE DUCTWORK, VALVES, ETC. INDICATED WITH HATCHING. THIS INCLUDES PNEUMATIC CONTROL LINES AND ASSOCIATED CONTROLS. EXISTING CONTROLS AND SUPPORTS THAT ARE NOT REUSED SHALL BE REMOVED COMPLETE.
- CUT, PATCH & REPAIR ALL OPENINGS IN WALLS, FLOORS, CEILINGS, ETC. WHERE REQUIRED BY THE REMOVAL OF EQUIPMENT, DUCTWORK, AND ACCESSORIES. PATCHING SHALL MATCH EXISTING CONSTRUCTION & FINISHES. COORDINATE ALL PATCHING AND FINISHES WITH OWNER. PATCHING OF FIRE RATED WALLS SHALL MAINTAIN THE FIRE RATING.
- PROPER CONNECTIONS, MATERIALS, AND SIZES OF DUCTWORK/PIPING SHALL BE MAINTAINED TO ENSURE EQUIPMENT IS MADE FULLY OPERATIONAL. REMOVAL OF EXISTING EQUIPMENT SHALL BE MADE SO THAT SERVICE TO OTHER AREAS UTILIZED BY THE OWNER ARE NOT INTERRUPTED WITHOUT CONSENT FROM OWNER. PROVIDE TEMPORARY VALVES AND TEMPORARY SERVICES REQUIRED DURING REMOVALS AND NEW CONSTRUCTION. WORK ASSOCIATED WITH THE DUCT MAINS SHALL BE SCHEDULED AT TIMES TO NOT INTERRUPT SERVICE TO OCCUPIED AREAS.

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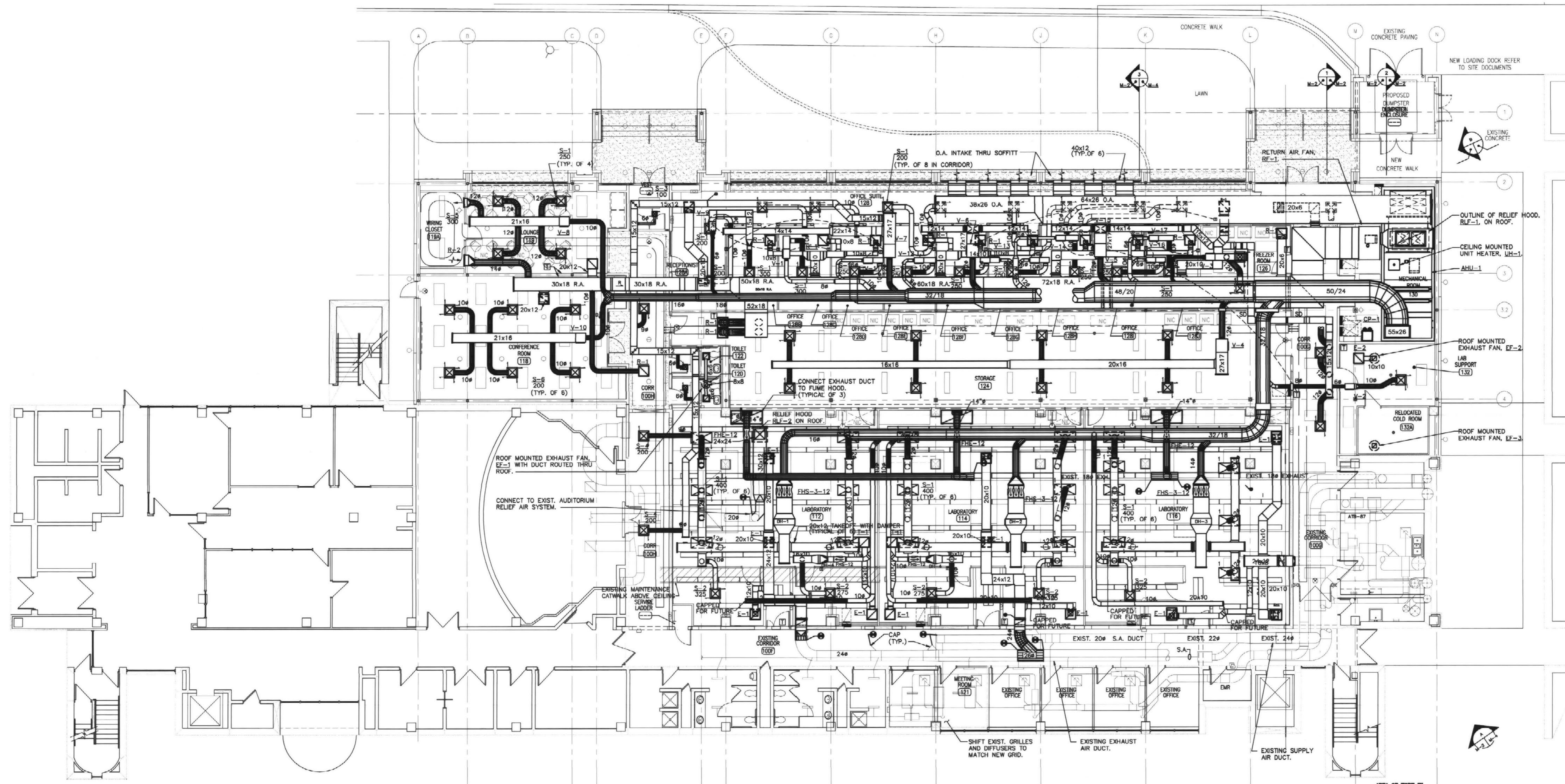
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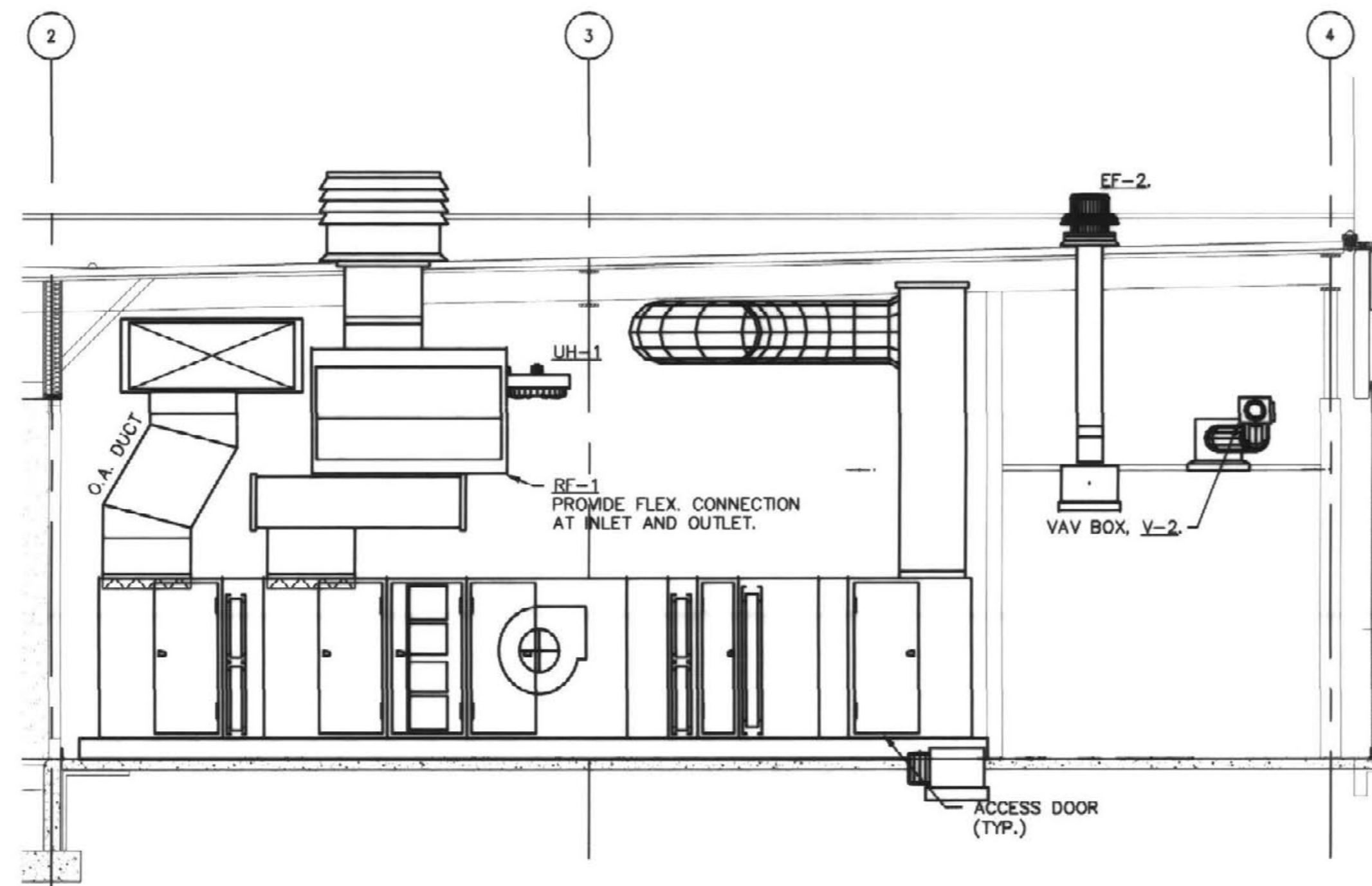
FIRST FLOOR HVAC REMOVAL PLAN

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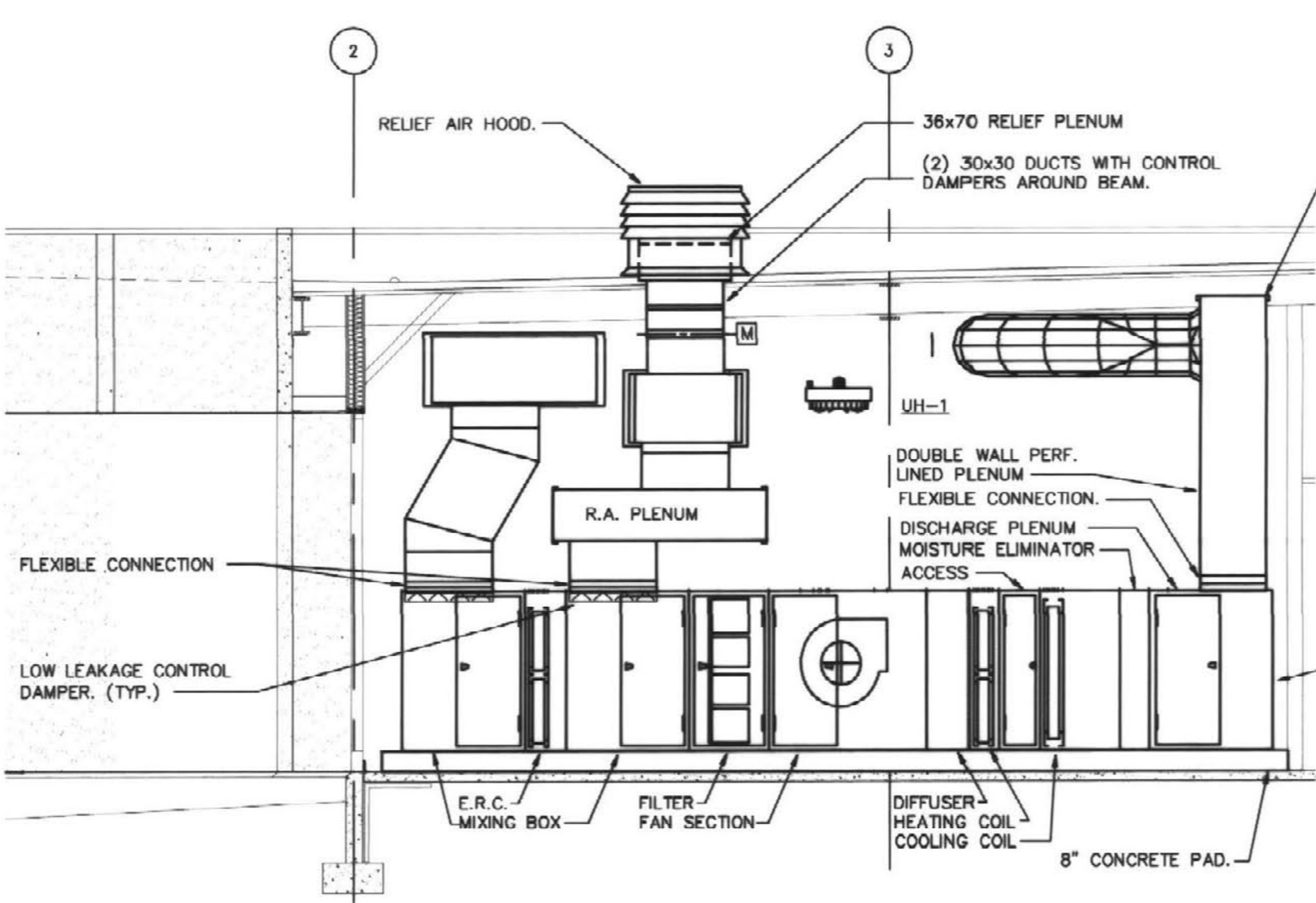


FIRST FLOOR HVAC PLAN

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



SECTION 1
SCALE: 1/4" = 1'-0" M-2 M-2



SECTION 2
SCALE: 1/4" = 1'-0" M-2 M-2

KEY PLAN
SCALE: NONE

GENERAL NOTES

- DRAWING IS DIAGRAMMATIC. PROVIDE PIPE AND DUCTWORK OFFSETS, ELBOWS, AND TRANSITIONS AS REQUIRED TO AVOID ALL INTERFERENCES ENCOUNTERED. COORDINATE ROUTING WITH OTHER TRADES.
 - CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, SIZES AND MATERIALS PRIOR TO ORDER OR FABRICATION. COORDINATE DUCT ROUTING WITH EXISTING AND NEW LIGHTING, PROVIDE OFFSETS AND ADDITIONAL FITTINGS TO AVOID INTERFERENCES WITH LIGHTING.
 - NEW DUCTWORK AND EQUIPMENT IS SHOWN HEAVY.
 - ROUTE PIPING AND DUCTWORK AS HIGH AS POSSIBLE WHILE STAYING CLEAR OF REQUIRED ACCESS AREAS.
 - FUME HOOD EXHAUST DUCTWORK SHALL BE 316 STAINLESS STEEL INCLUDING TRANSITION FROM FUME HOOD TO EXHAUST DUCT. LAB ROOM EXHAUST DUCTWORK SHALL BE GALVANIZED STEEL.
 - WHERE NEW DUCT ATTACHES TO EXISTING; REMOVE EXISTING INSULATION (INTERIOR OR EXTERIOR) WITHIN 8' OF CONNECTION AND PROVIDE NEW EXTERNAL INSULATION.
 - FIELD VERIFY DUCT ARRANGEMENT AND SIZES PRIOR TO FABRICATION. AREA ABOVE AND NEAR CEILING IS LIMITED DUE TO EXISTING DUCTWORK AND PIPING. USE OF 1.0m RADIUS ELBOWS MAY BE REQUIRED IN SOME LOCATIONS.
 - AIR VALVE MOUNTING SHALL BE DRAW BAND METHOD FOR FUME HOOD VALVES. FUME EXHAUST ASSEMBLIES IN THE BRANCH DUCTS SHALL BE FLANGED CONNECTIONS. GENERAL EXHAUST AND FUME HOOD SUPPLY AIR VALVES MAY BE INSTALLED WITH SHEETMETAL SCREWS. SUPPORT THE DUCTWORK WITHIN 12" OF THE VALVE. (BOTH SIDES) PROVIDE ALL MATERIALS REQUIRED FOR SUPPORT AND AIR TIGHT INSTALLATION.
 - BALANCE EXISTING EXHAUST AND LAB EXHAUST AIRFLOWS AT BRANCH CONNECTIONS SERVING EACH FLOOR.
 - DUE TO THE RESTRICTIONS IMPOSED BY EXISTING CONDITIONS CONTRACTOR SHALL SUBMIT FABRICATION DRAWINGS PRIOR TO ANY INSTALLATION OR ORDER OF DUCTWORK IN EXISTING AREAS. FABRICATION DRAWINGS SHALL SHOW COORDINATION WITH LIGHTING, PIPING, EXISTING DUCTWORK AND EXISTING CONDITIONS. SUBMIT TO ARCHITECT AND ENGINEER FOR REFERENCE PURPOSES.
- PROVIDE 2" PVC CONNECTION TO FUME EXHAUST DUCTWORK IN FIRST FLOOR LABS, 118, 119, 120 AND FOURTH FLOOR LAB 436. CONNECTION SHALL INCLUDE BALANCING VALVE. ROUTE PVC PIPING EXPOSED IN ROOM TO SOLVENT STORAGE CABINET. REFER TO LAB DRAWINGS FOR LOCATION OF CABINETS.

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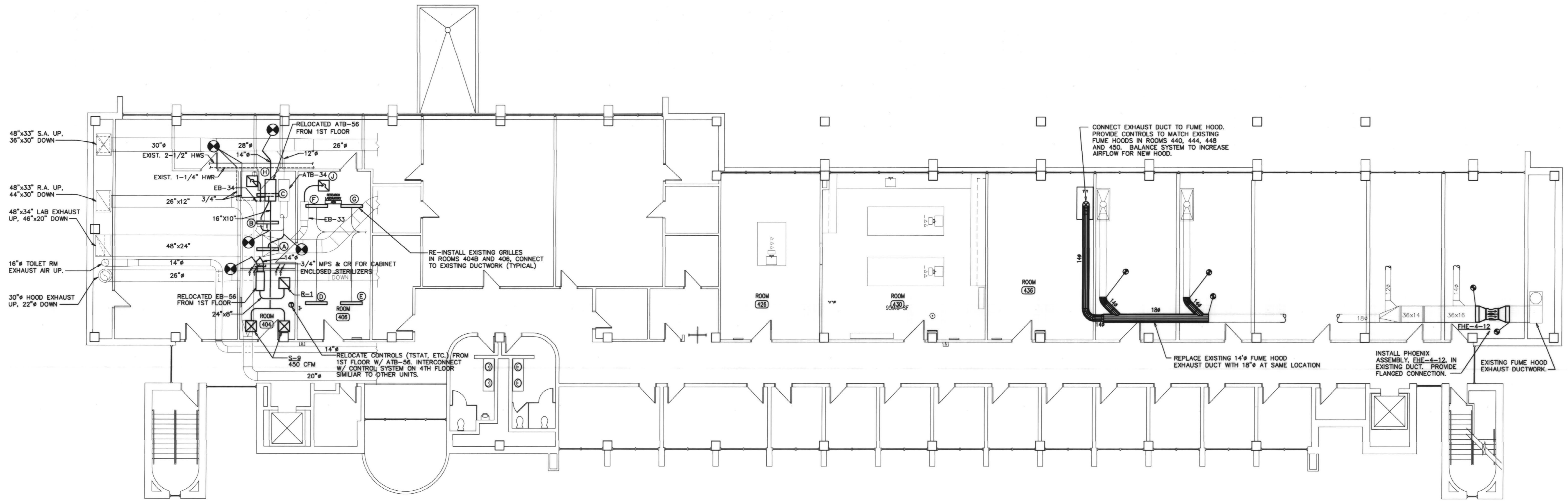
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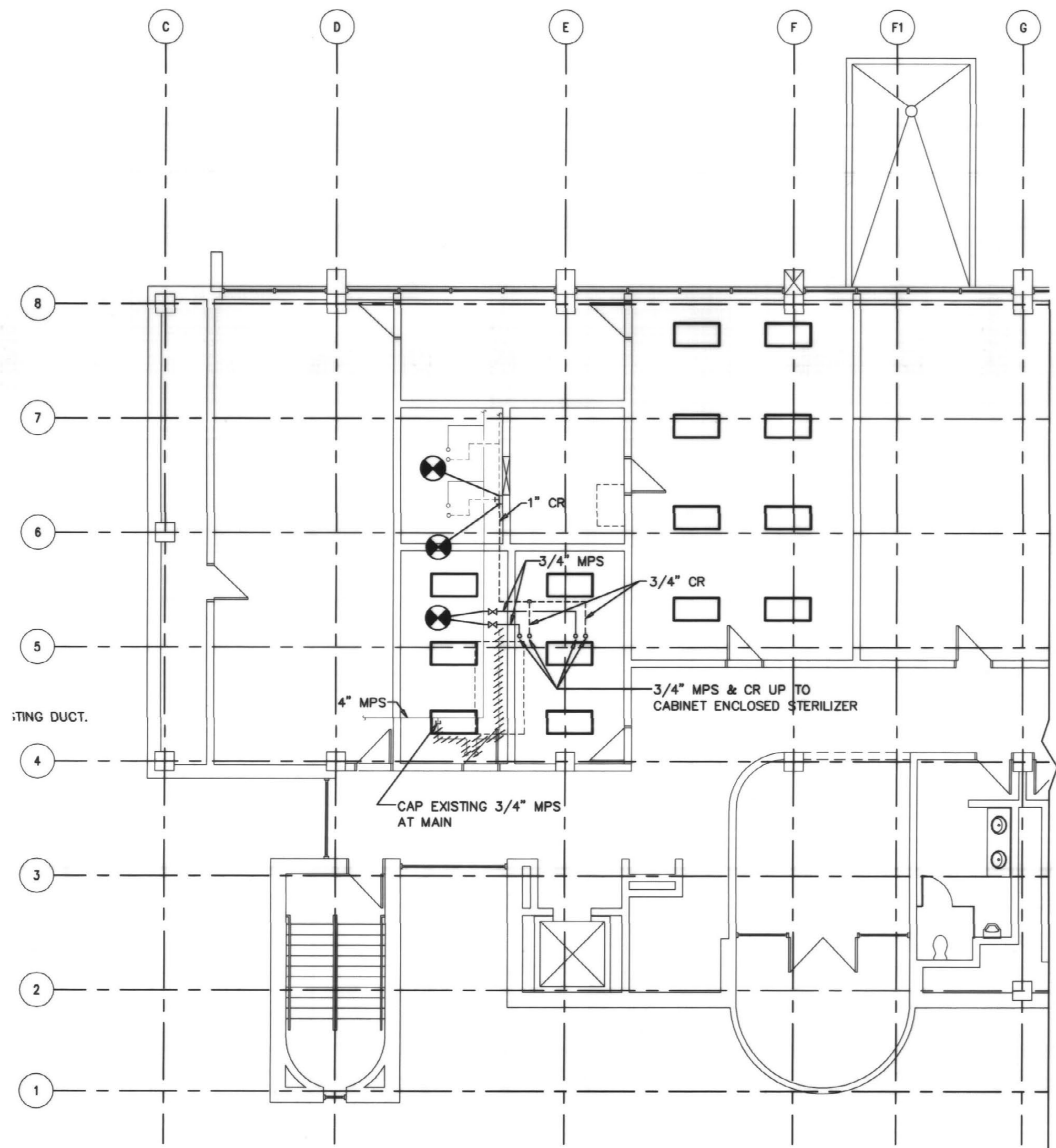
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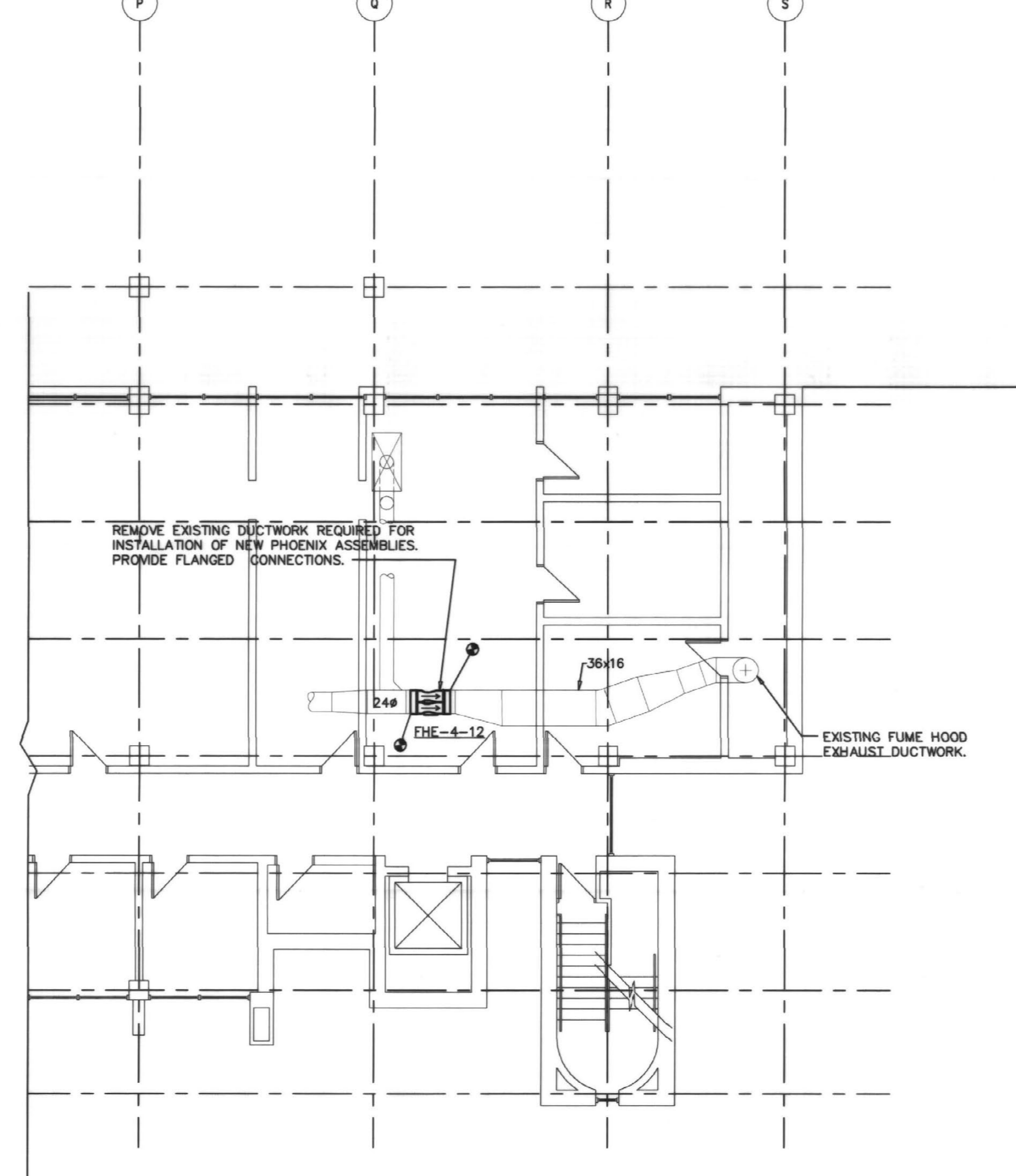
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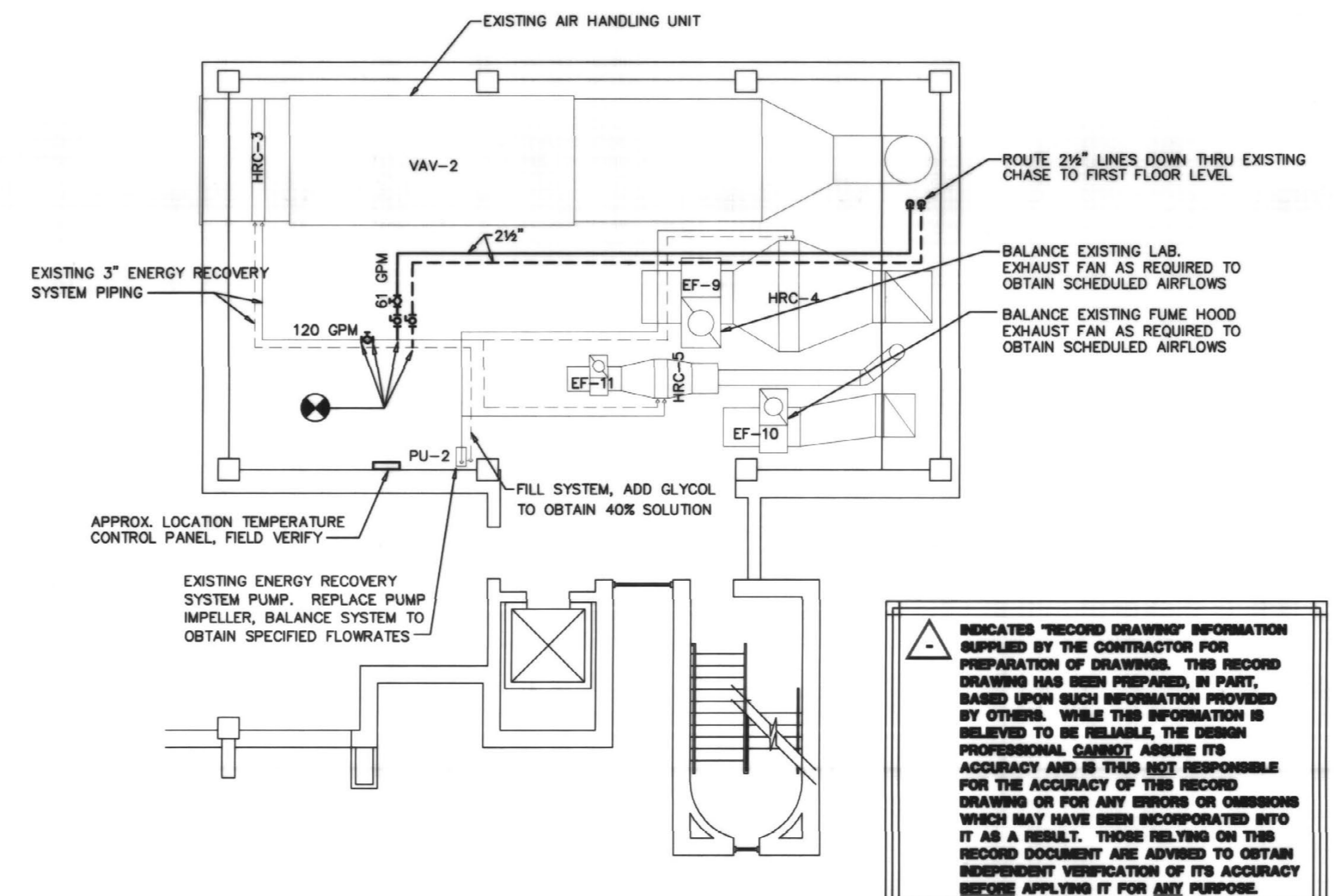
FOURTH FLOOR HVAC PLAN
SCALE: 1/8" = 1'-0"



PARTIAL THIRD FLOOR HVAC
SCALE: 1/8" = 1'-0"



PARTIAL THIRD FLOOR HVAC
SCALE: 1/8" = 1'-0"



PENTHOUSE SOUTH HVAC FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTES:
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RECORD SET DWG.
DATE 6/9/2003

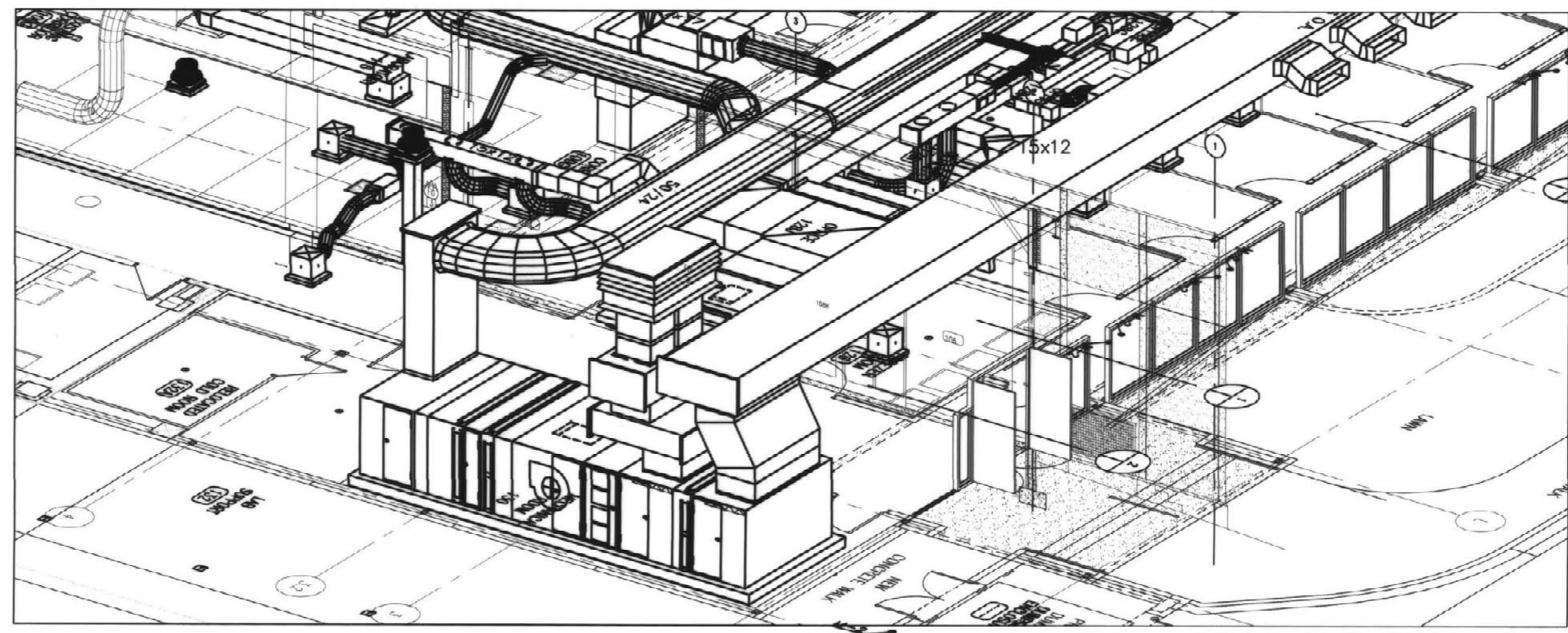
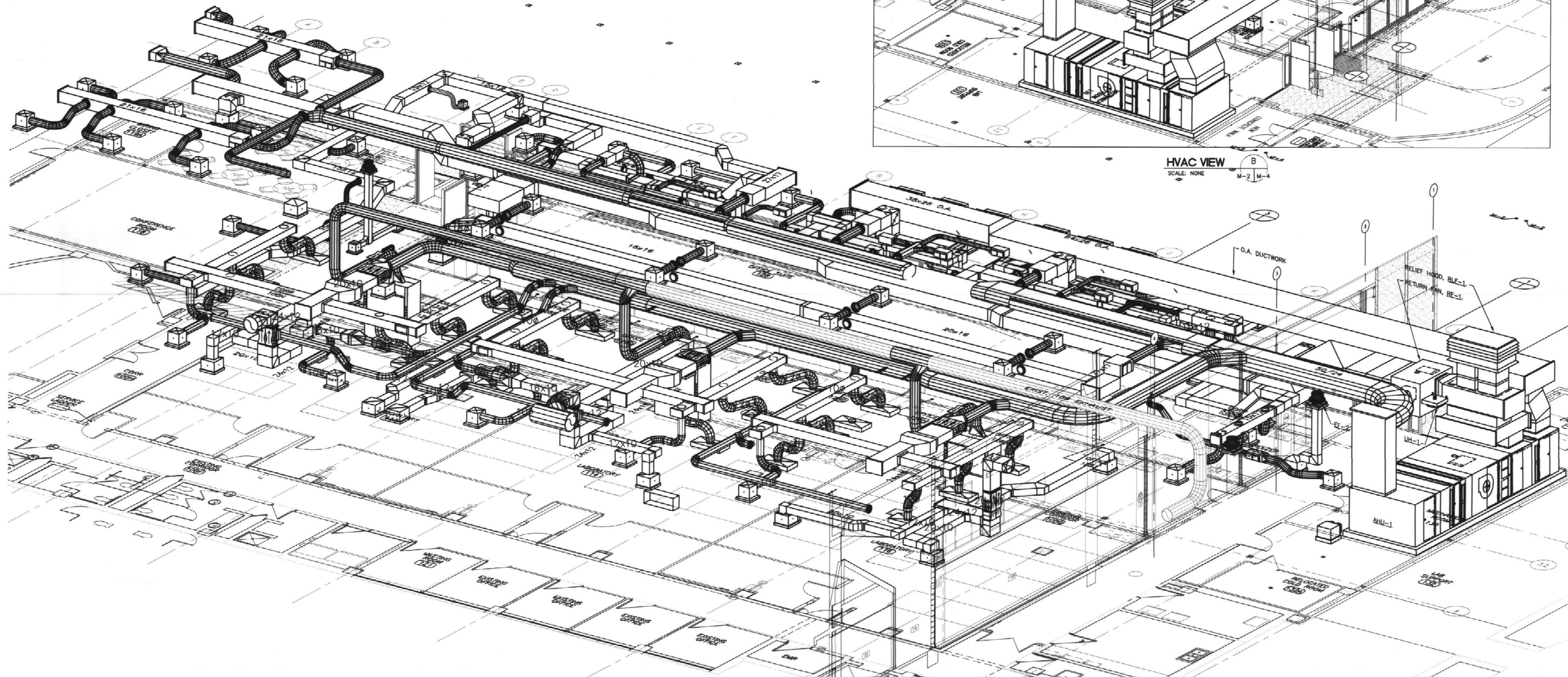
LEGEND
POINT OF CONNECTION NEW TO EXISTING

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

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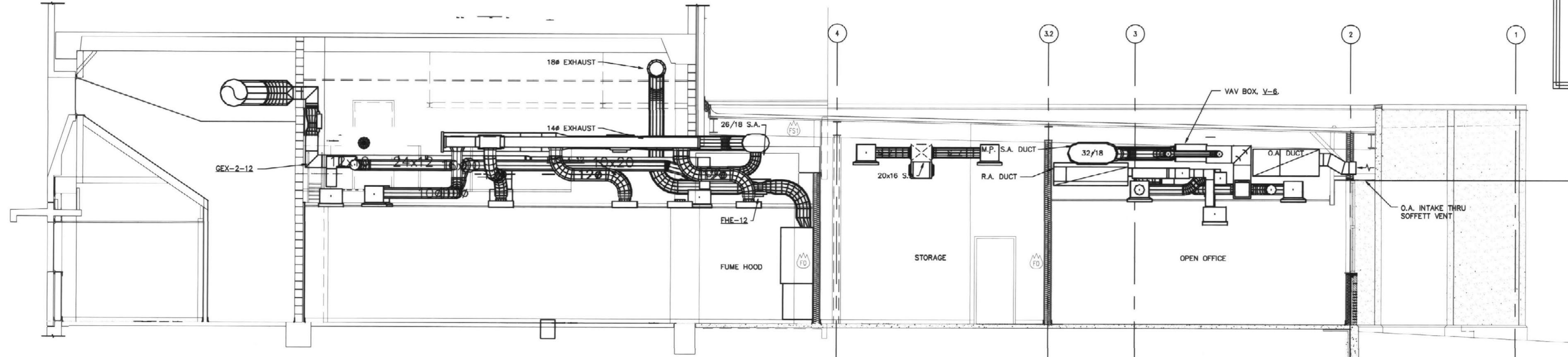
Biagi, Chance, Cummins, London, Titzer, Inc.
Consulting Engineers



HVAC VIEW
SCALE: NONE

HVAC VIEW
SCALE: NONE

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

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

RECORD DRAWINGS JUNE 18, 2003

Sherman Carter Barnhart PSC
PARTNERS IN ARCHITECTURE
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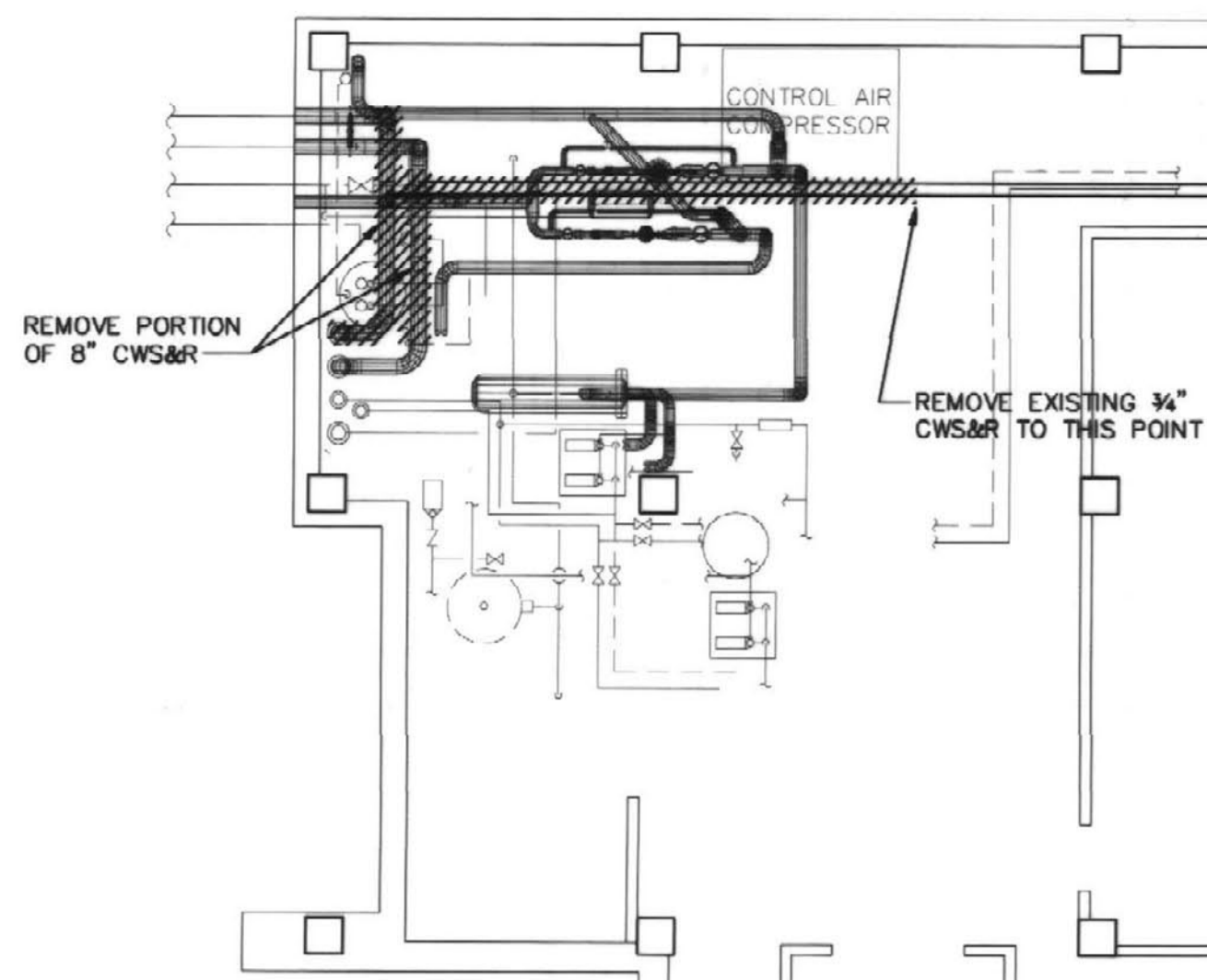
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M-4

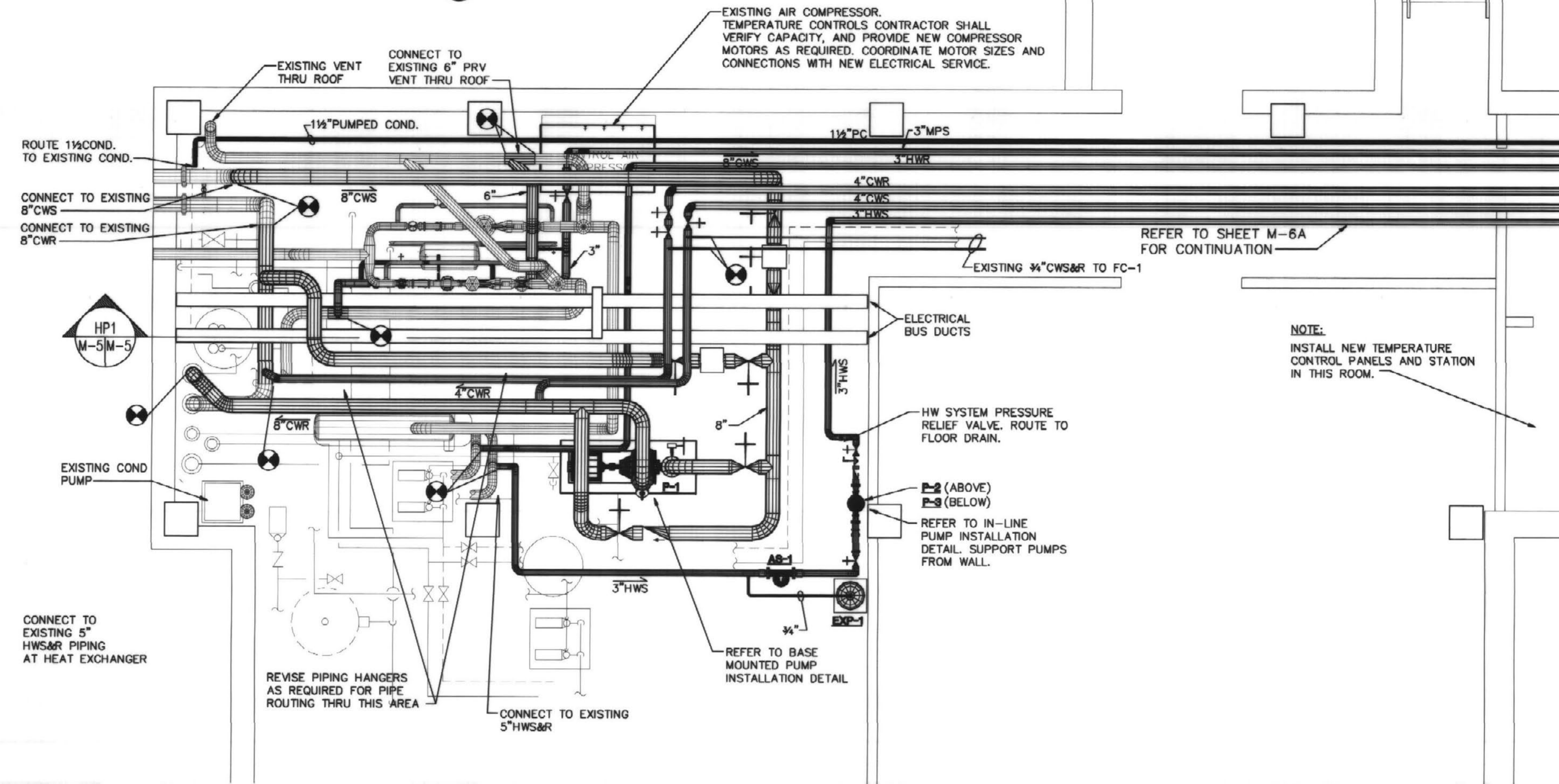
Gluck Equine
Research Center Renovation
University of Kentucky

FIRST FLOOR HVAC VIEWS
AND SECTION

Biagi, Chance, Cummins, London, Titzer, Inc.
Consulting Engineers



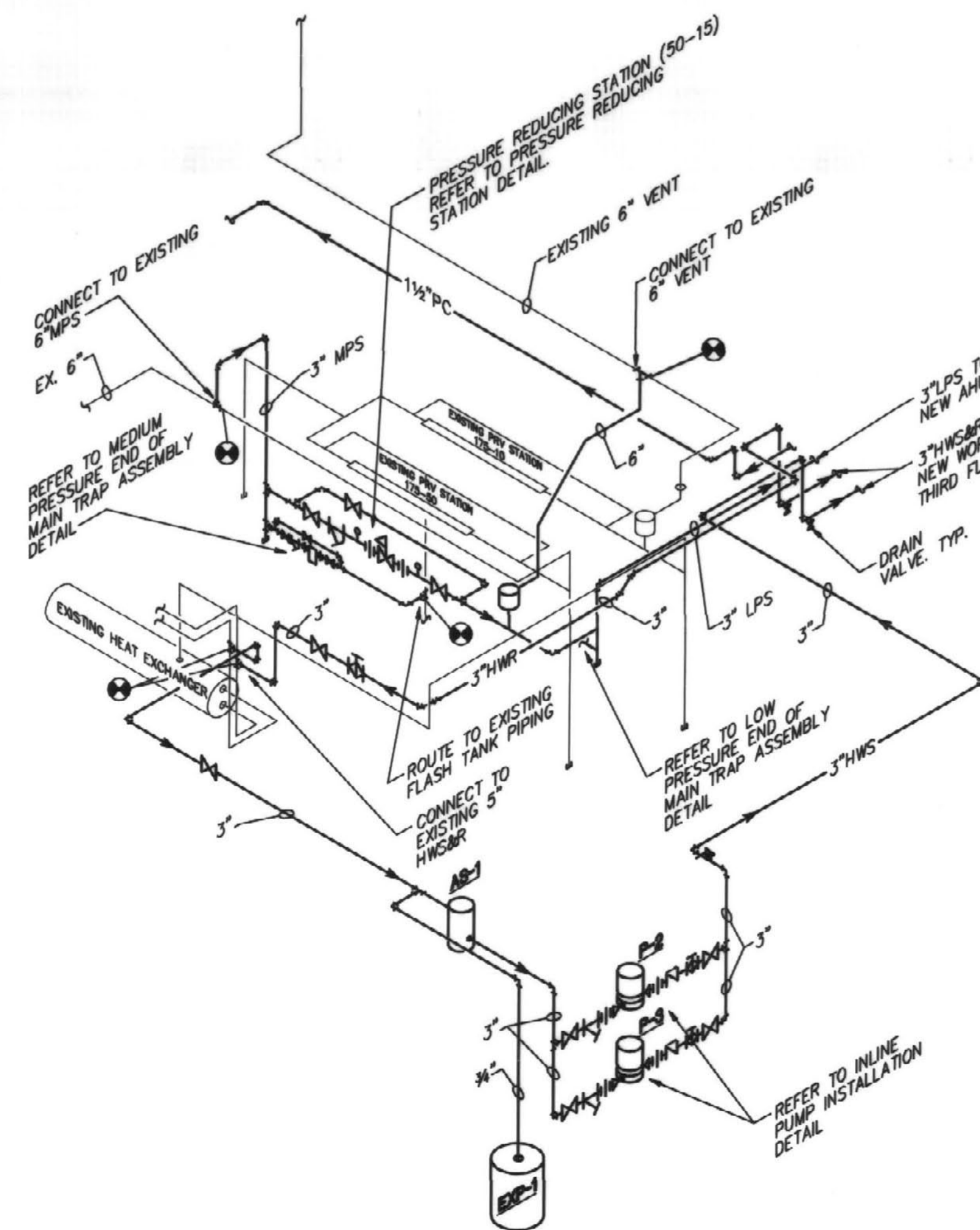
BASEMENT HVAC REMOVAL PLAN
SCALE: 1/4" = 1'-0"



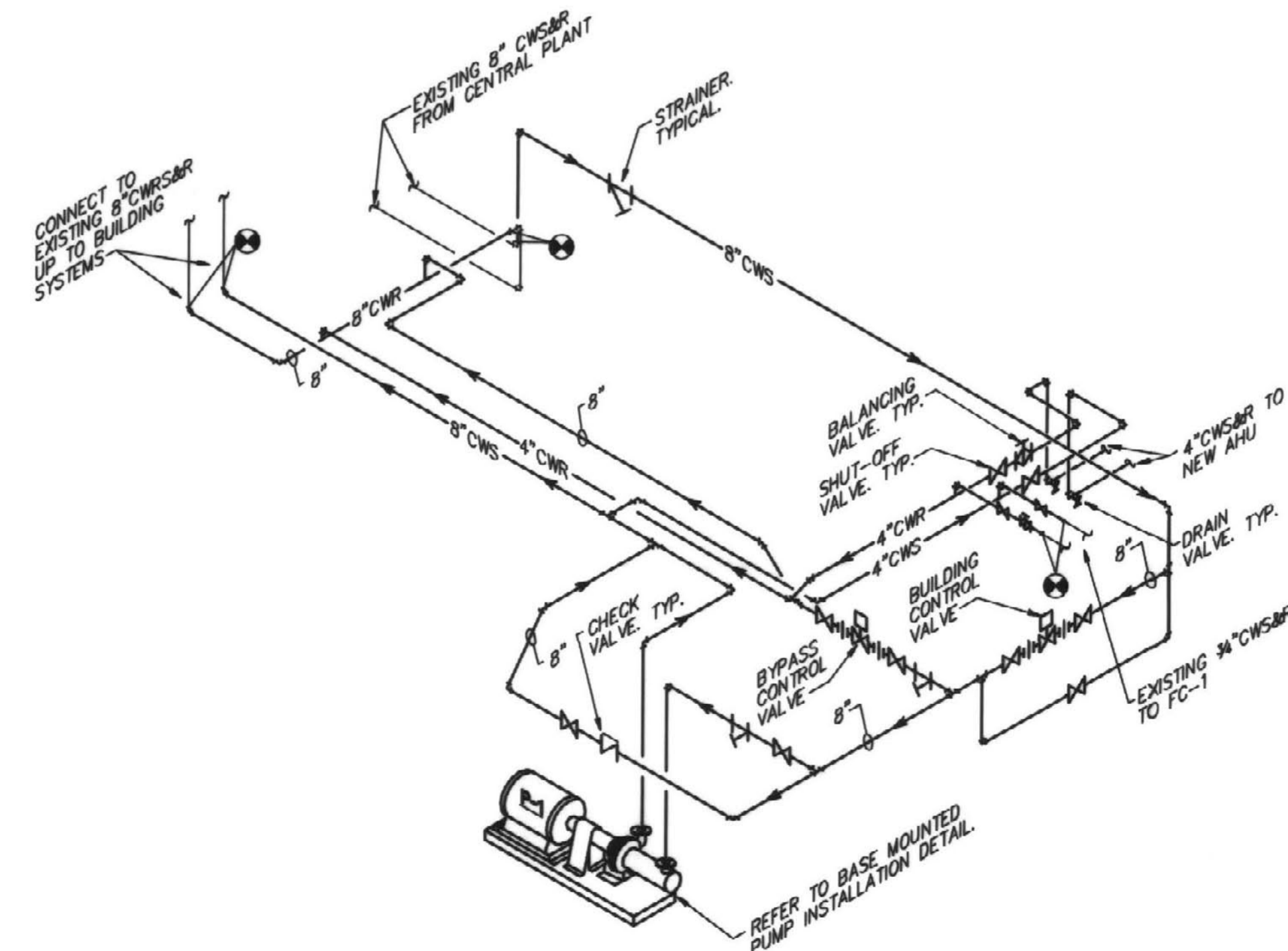
BASEMENT HVAC FLOOR PLAN
SCALE: 1/4" = 1'-0"

PIPING NOTES:

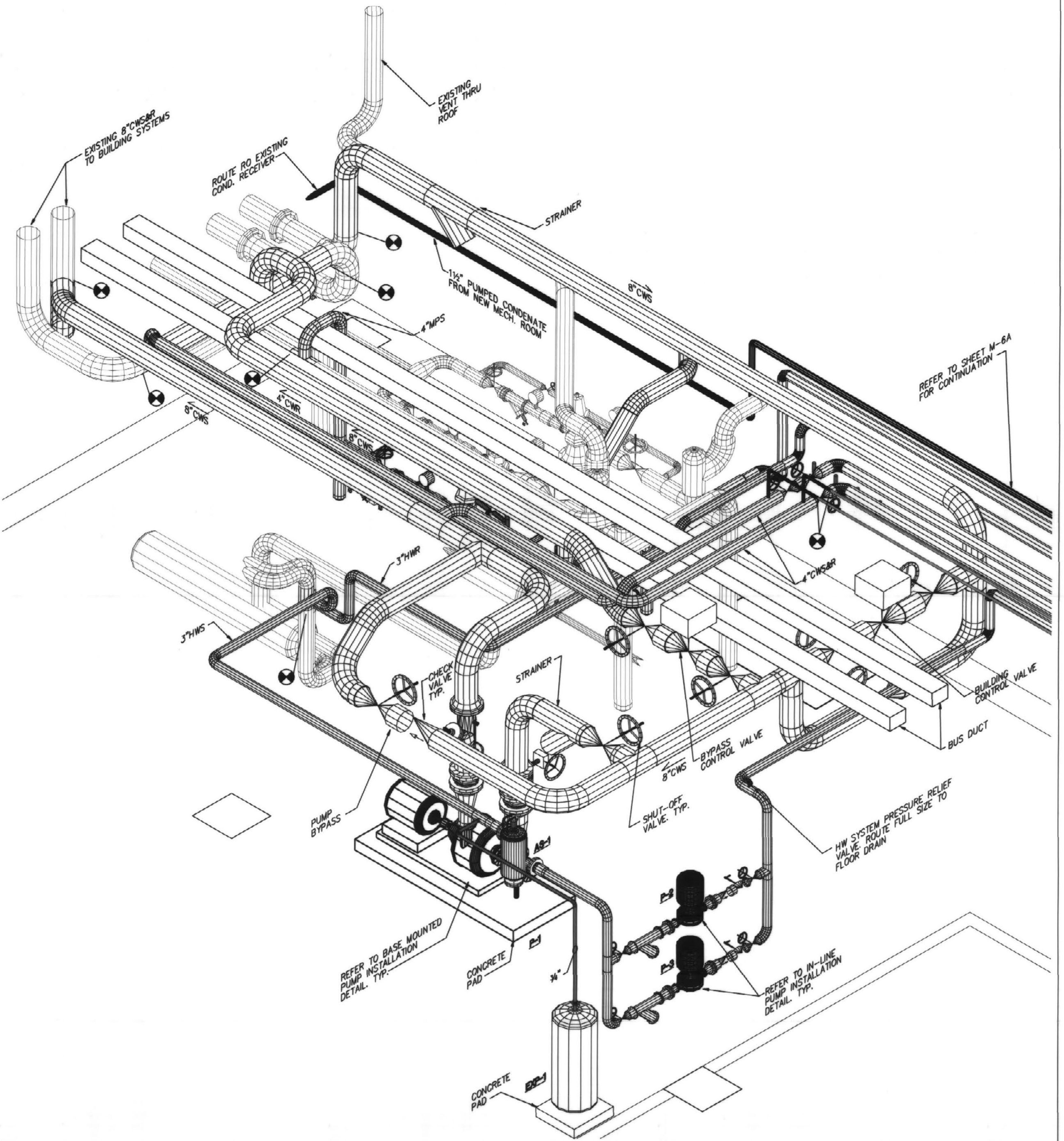
1. DRAWINGS ARE DIAGRAMMATIC. PROVIDE ADDITIONAL ELBOWS, OFF-SETS, TRANSITIONS, ETC. AS REQUIRED TO AVOID ANY INTERFERENCES ENCOUNTERED.
2. COORDINATE WITH ALL OTHER TRADES.
3. PIPE PENETRATIONS THROUGH EXTERIOR WALL SHALL BE COORDINATED WITH STRUCTURAL ENGINEER AND ARCHITECT AS TO SPACING AND DISTANCES BETWEEN PENETRATIONS.



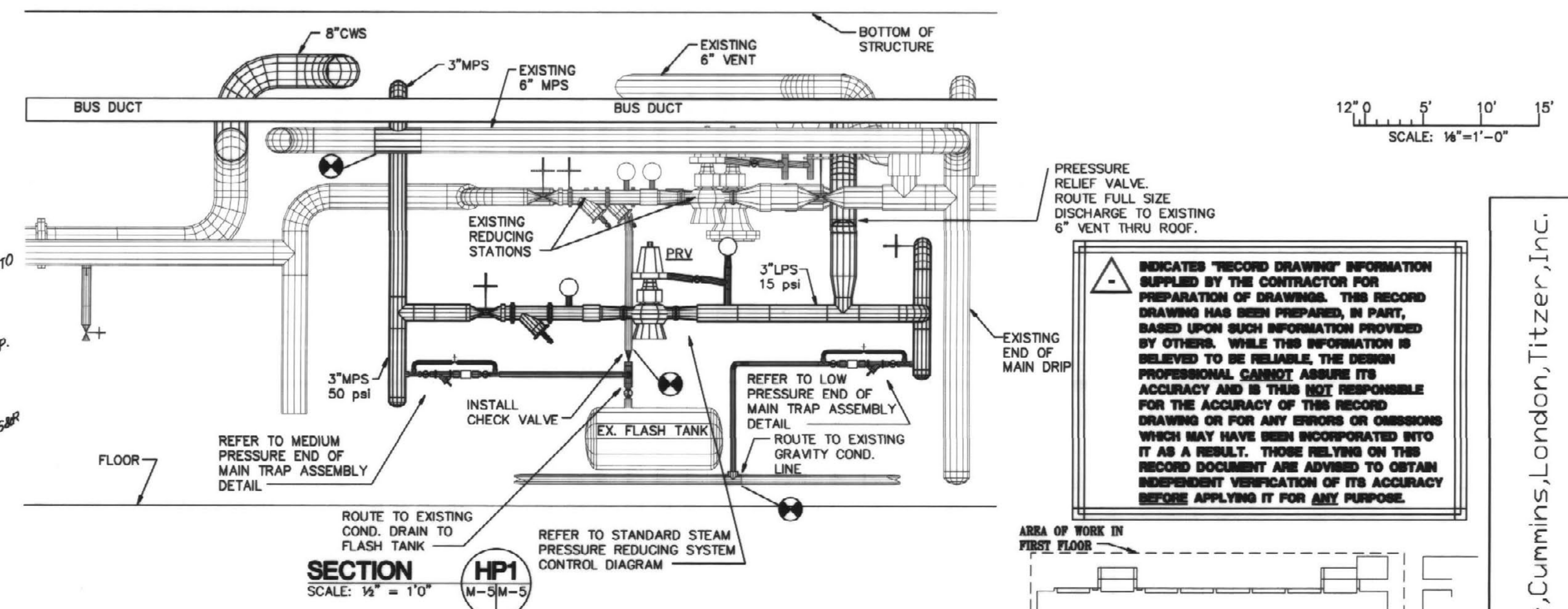
HW/STEAM PIPING DIAGRAM
SCALE: NONE



CW PIPING DIAGRAM
SCALE: NONE



BASEMENT HVAC PIPING VIEW
SCALE: NONE



LEGEND

POINT OF CONNECTION NEW TO EXISTING

KEY PLAN
SCALE: NONE

RECORD DRAWINGS JUNE 18, 2003

Sherman Carter Barnhart
PARTNERS IN ARCHITECTURE
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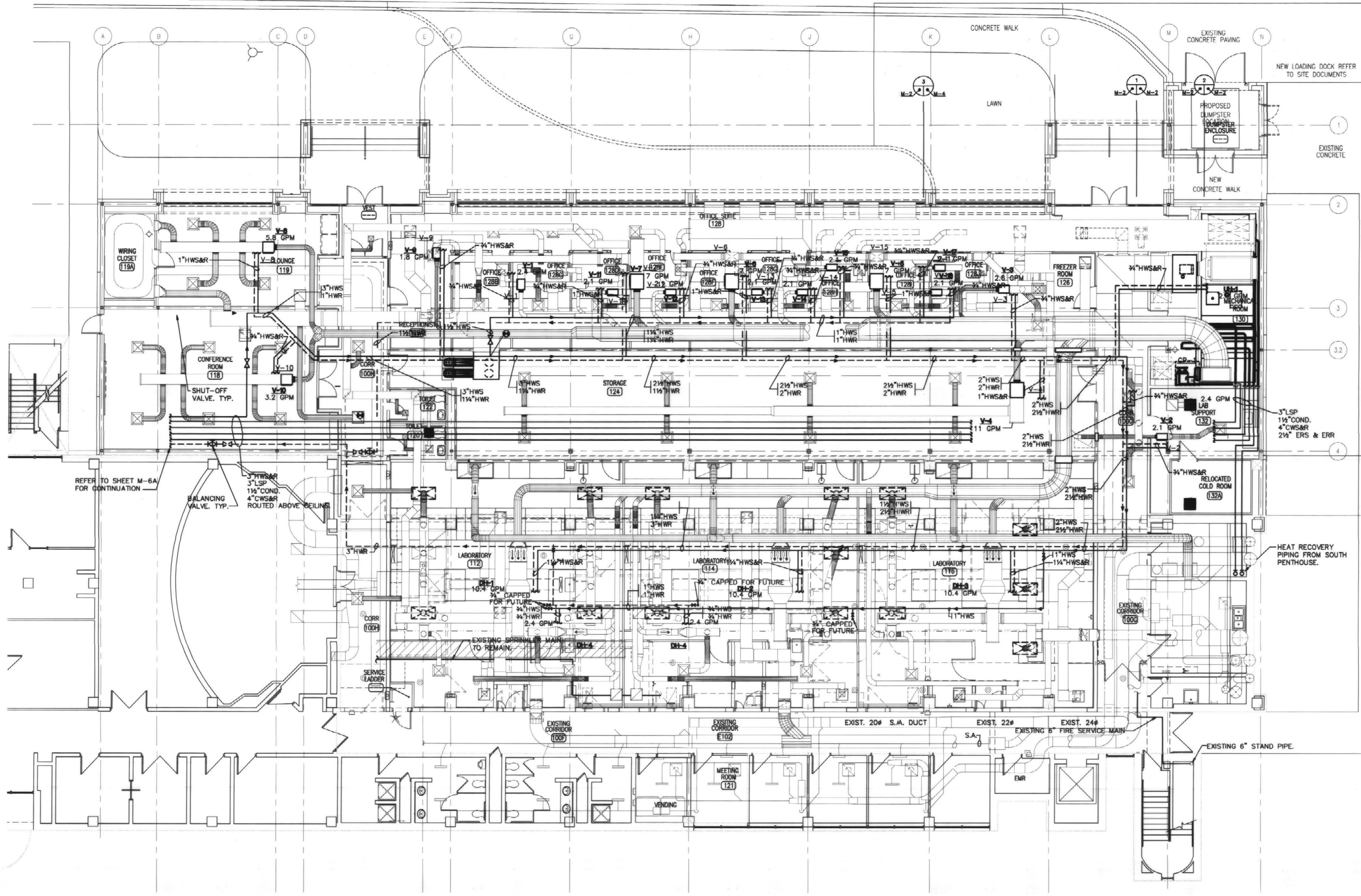
BASEMENT HVAC
PIPING PLANS AND DETAILS

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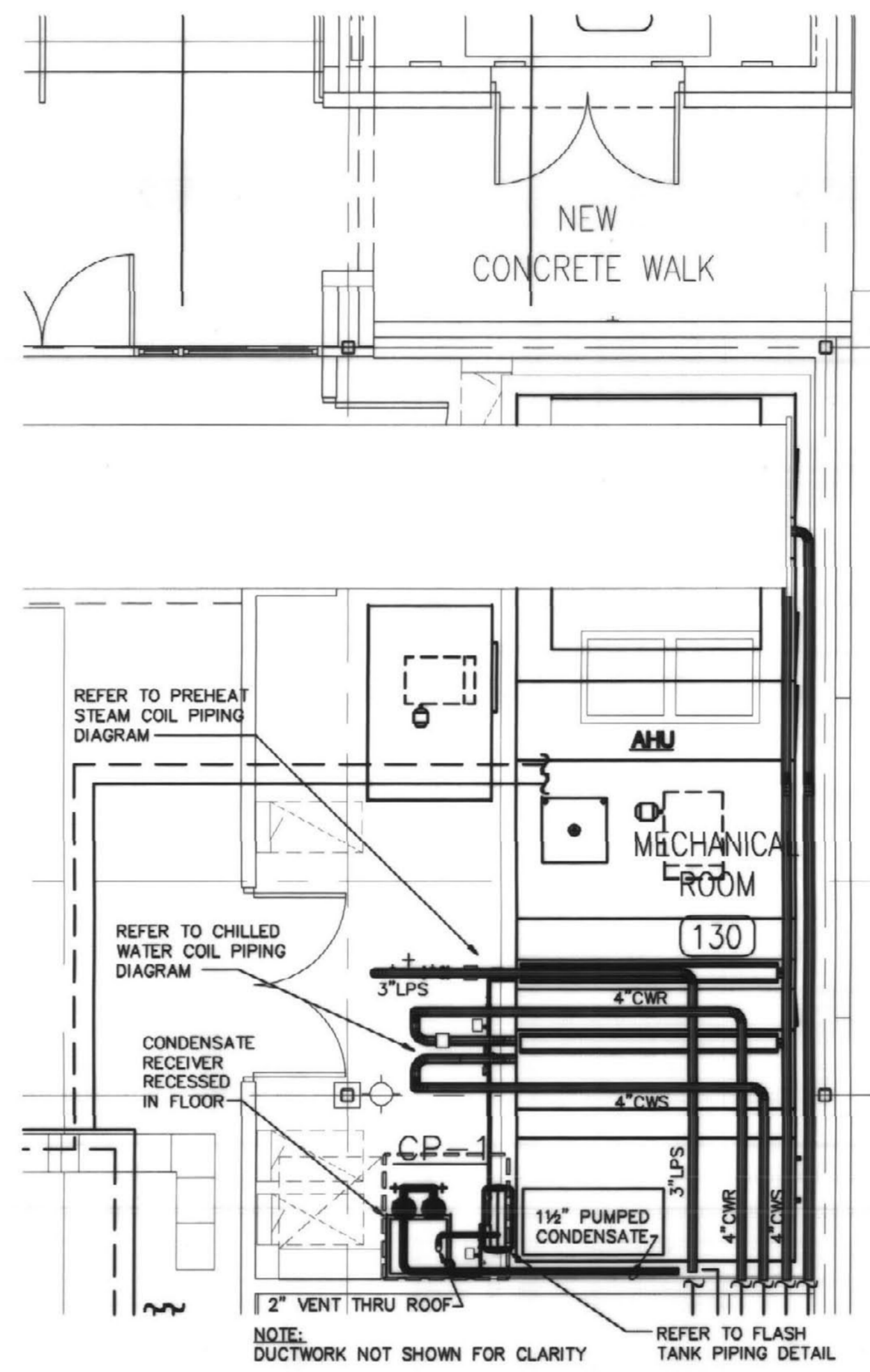
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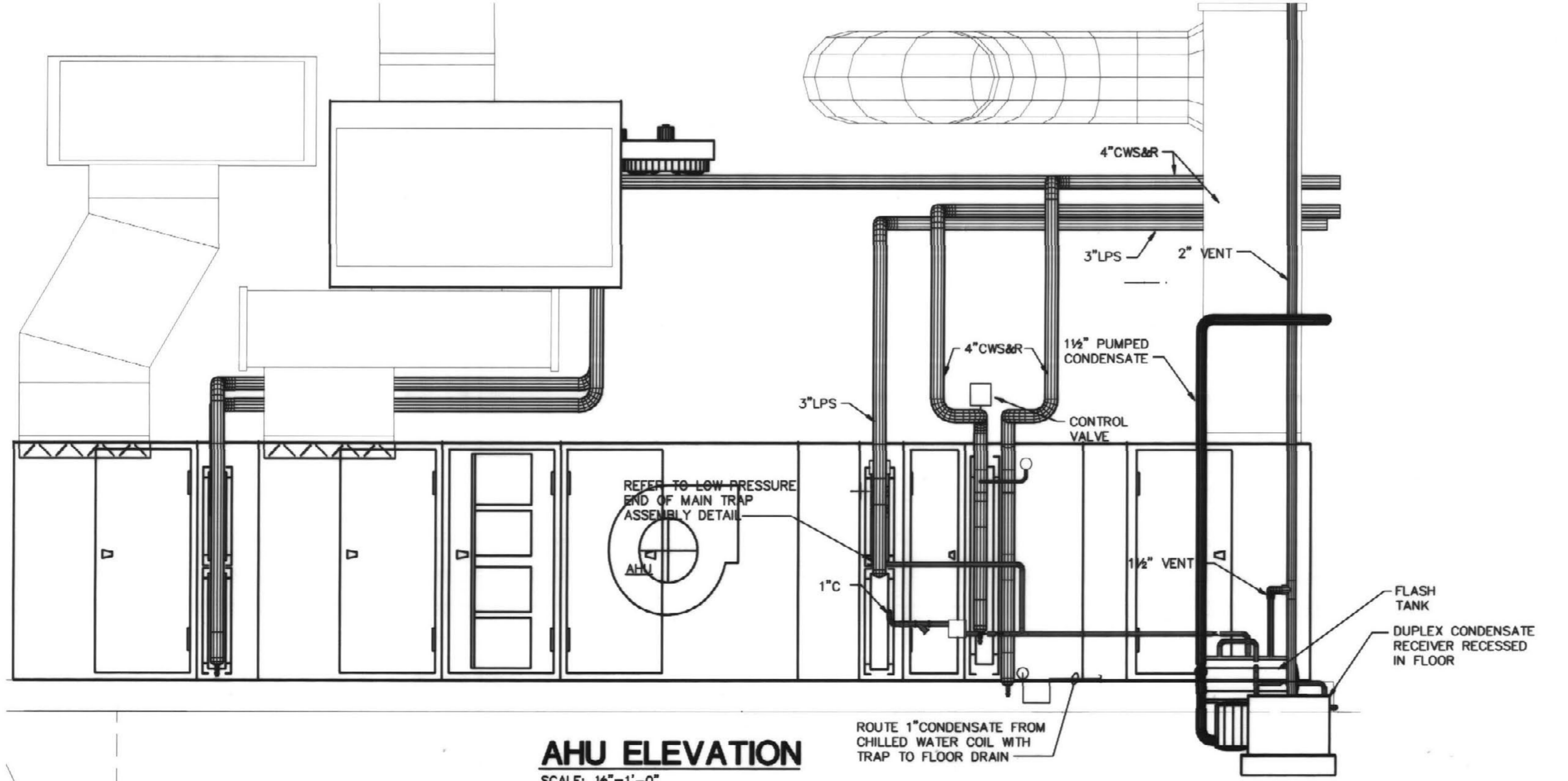
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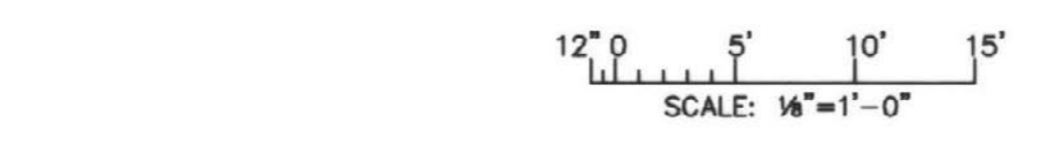
FIRST FLOOR HVAC PIPING PLAN
SCALE: 1/8"=1'-0"



ENLARGED MECHANICAL ROOM HVAC PIPING PLAN
SCALE: 1/4"=1'-0"



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



KEY PLAN
SCALE: NONE

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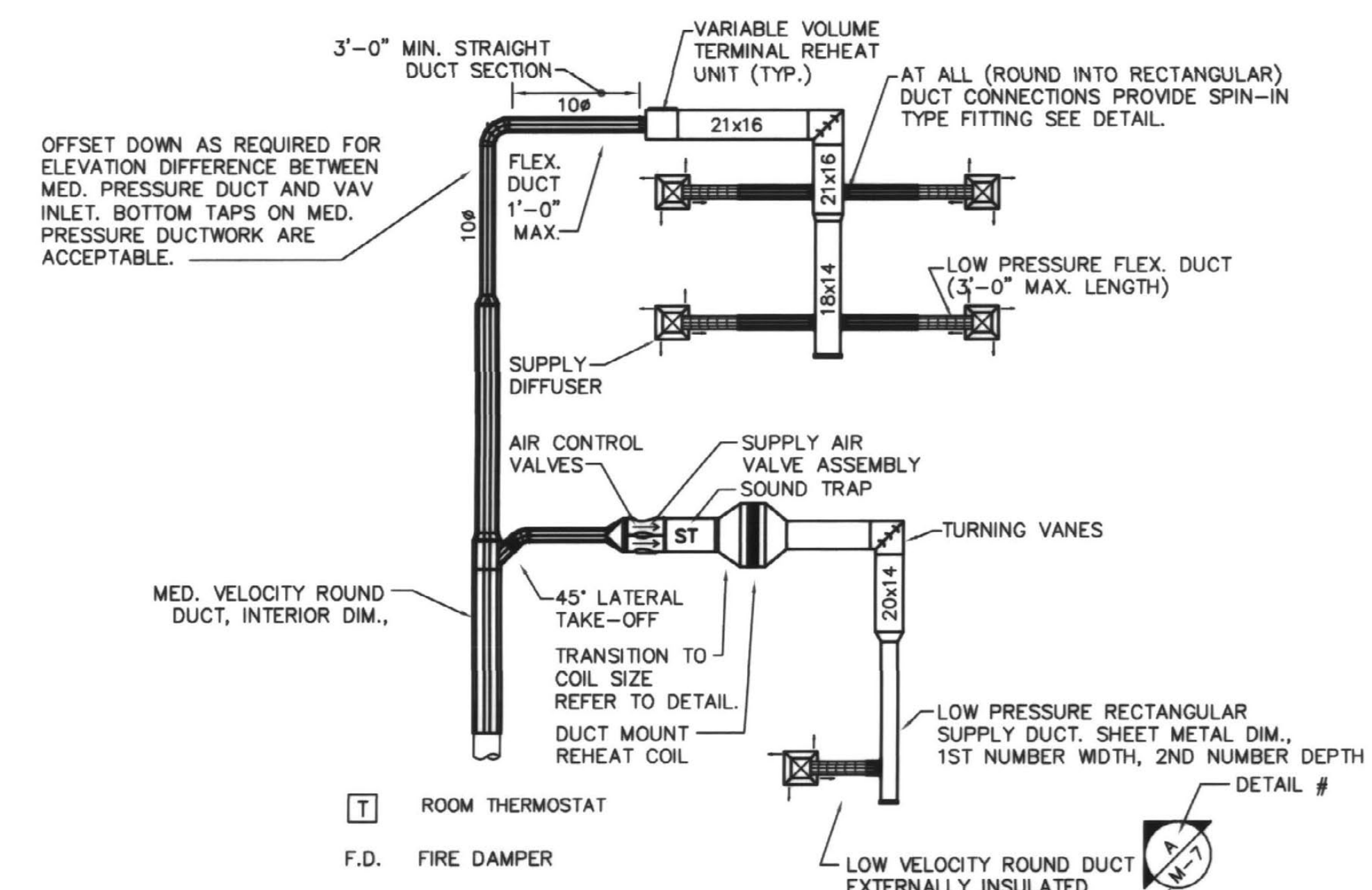
FIRST FLOOR HVAC PIPING PLAN

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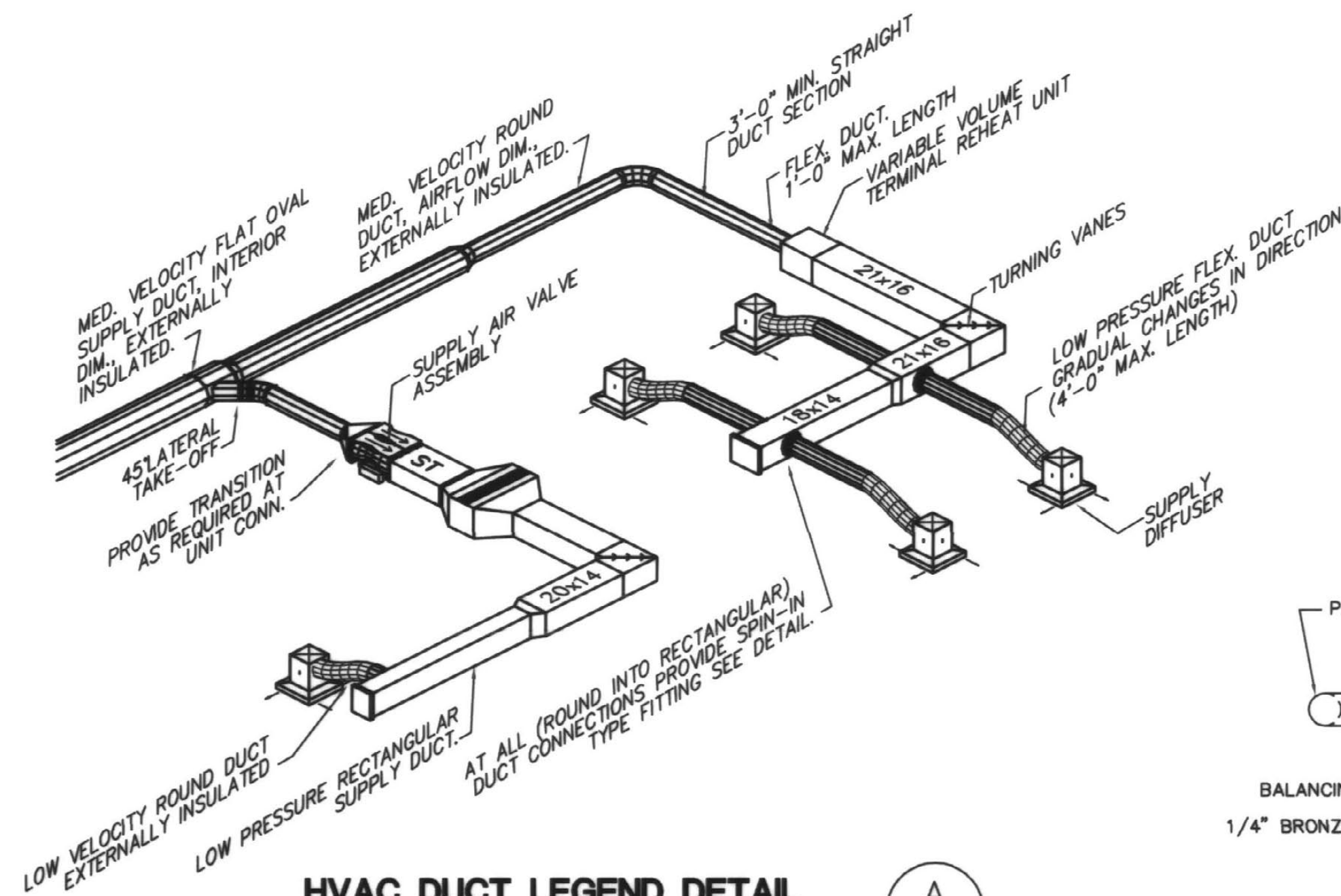


NOTES:

1. ALL LOW PRESSURE DUCTWORK DIMENSIONS ARE AIR FLOW DIMENSIONS.
2. MEDIUM VELOCITY DUCT DIMENSIONS ARE AIR FLOW DIMENSIONS.
3. THERMOSTATS CONNECTED TO DUCT REHEAT COILS ALSO CONTROL AIR CONTROL VALVE.
4. EXTERNALLY INSULATE ALL SUPPLY AND RETURN DUCTWORK.

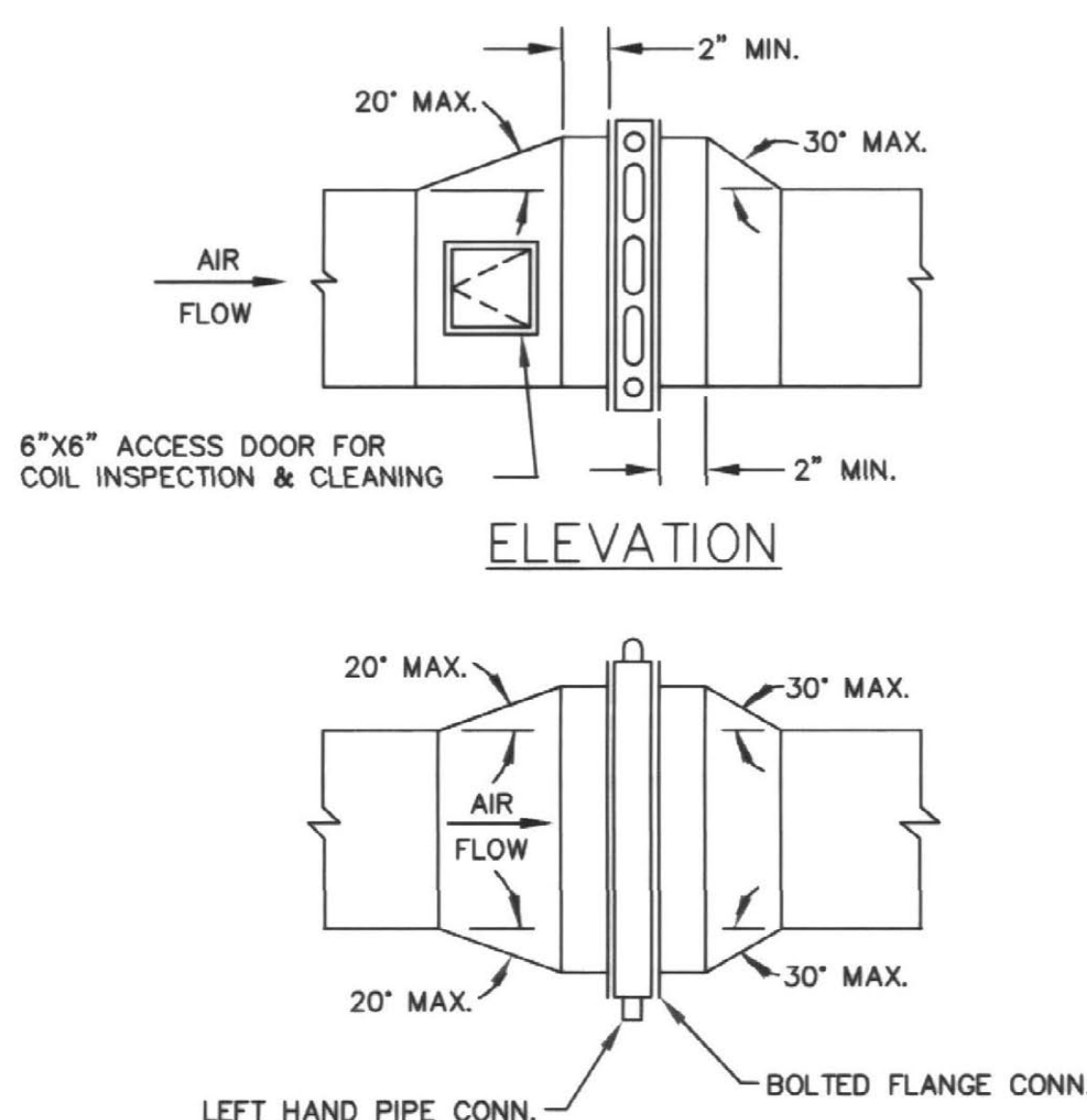
HVAC DUCT LEGEND

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



HVAC DUCT LEGEND DETAIL

SCALE: NONE

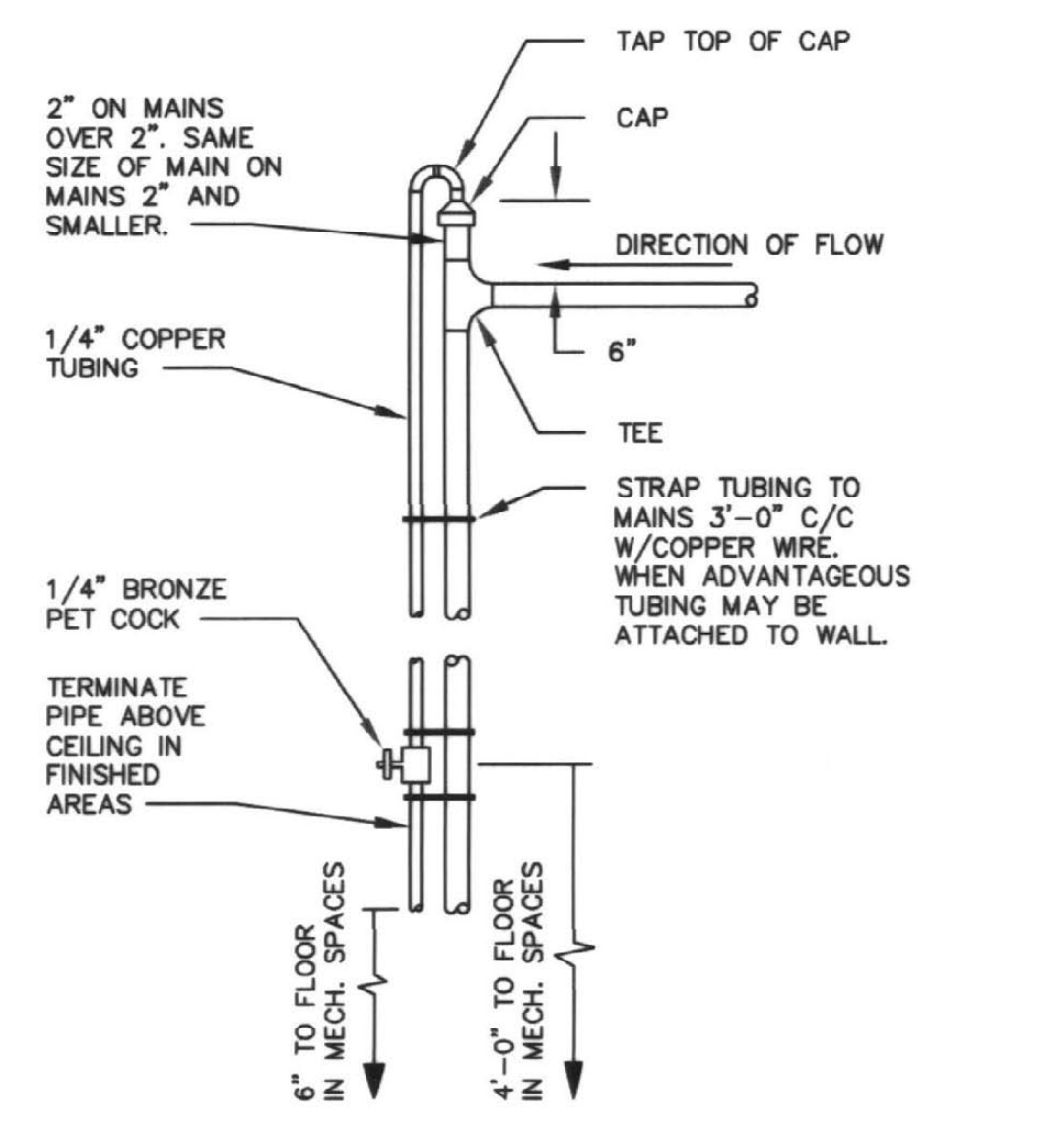


ELEVATION

PLAN VIEW

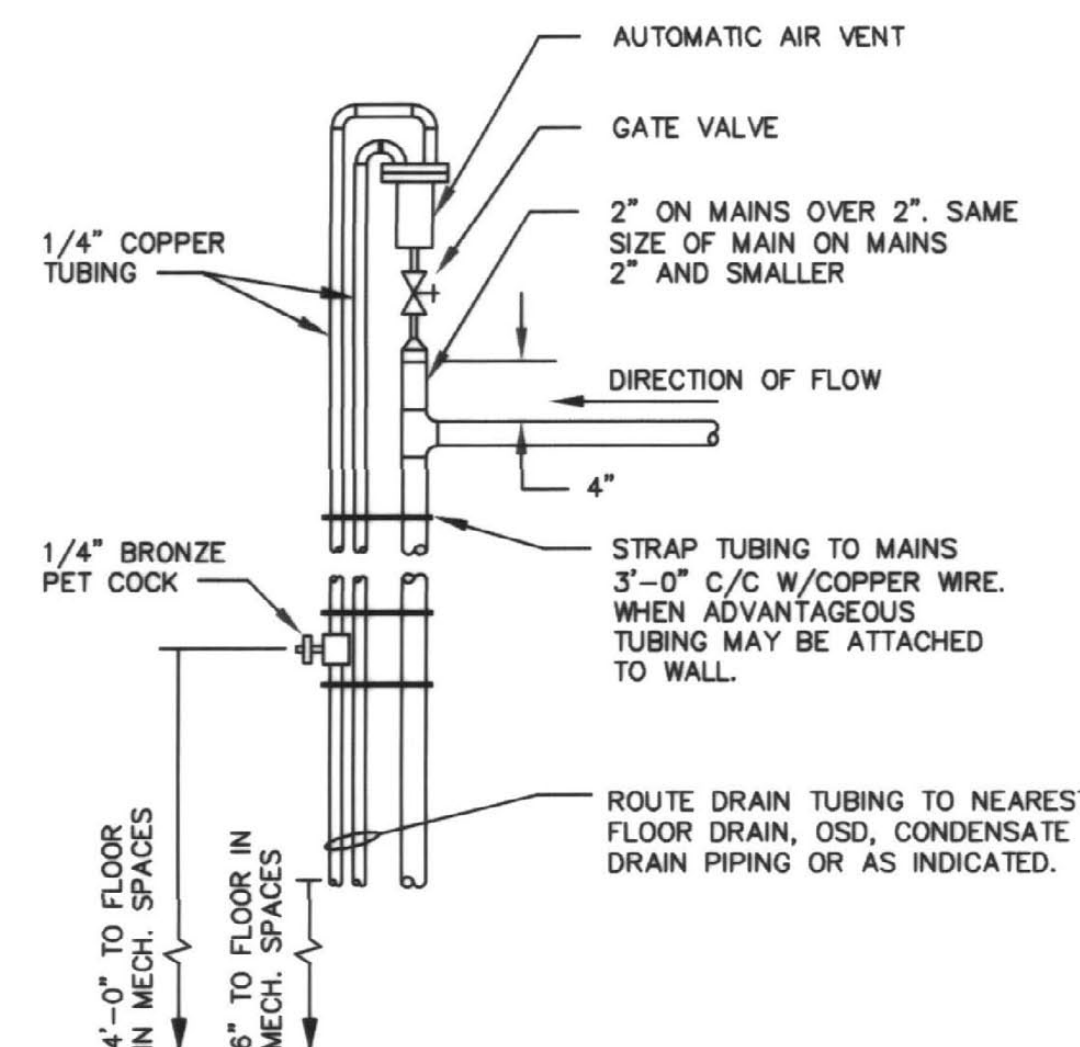
DUCT MOUNTED COIL DETAIL

SCALE: NONE



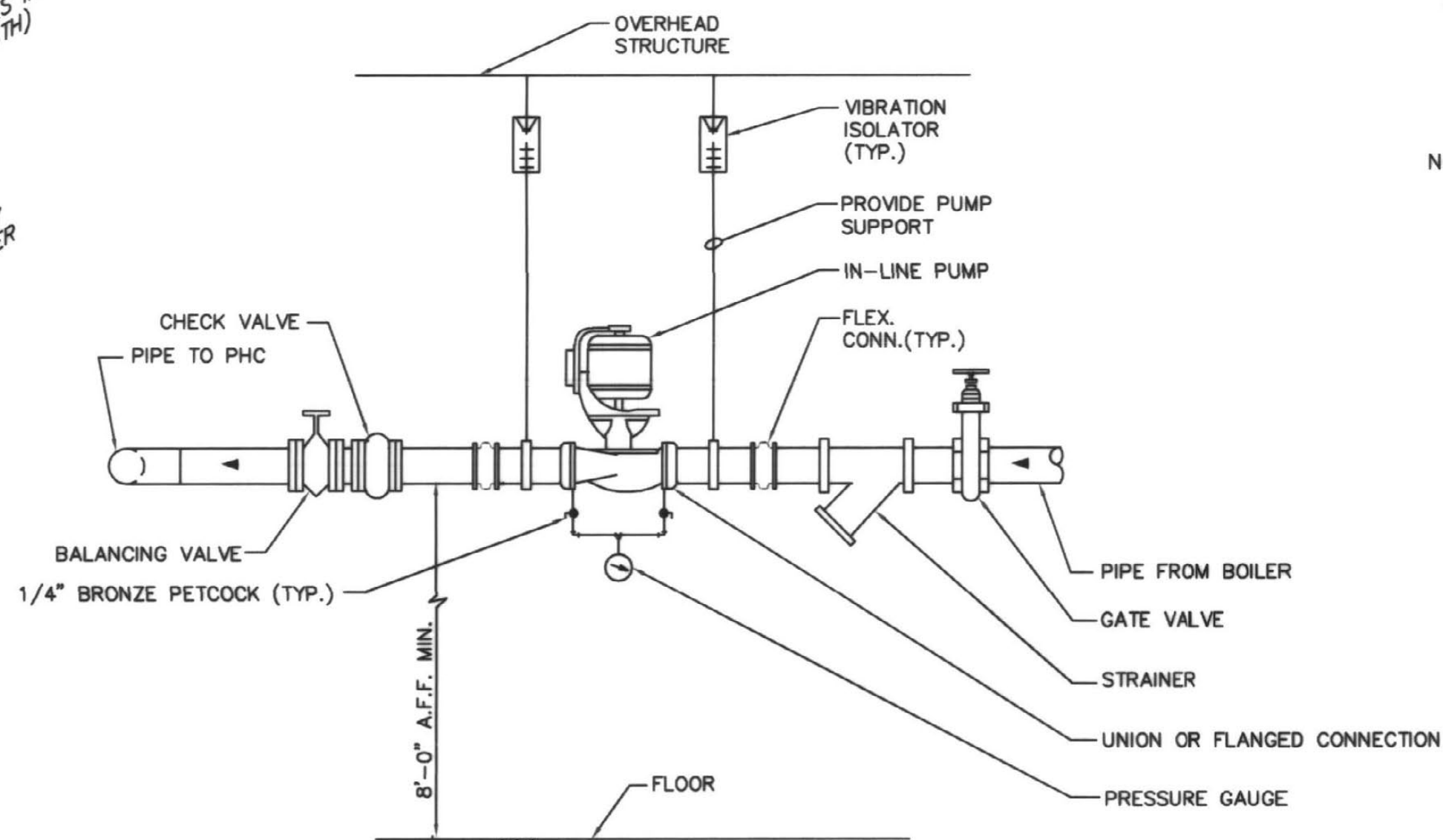
MANUAL AIR VENT

SCALE: NONE



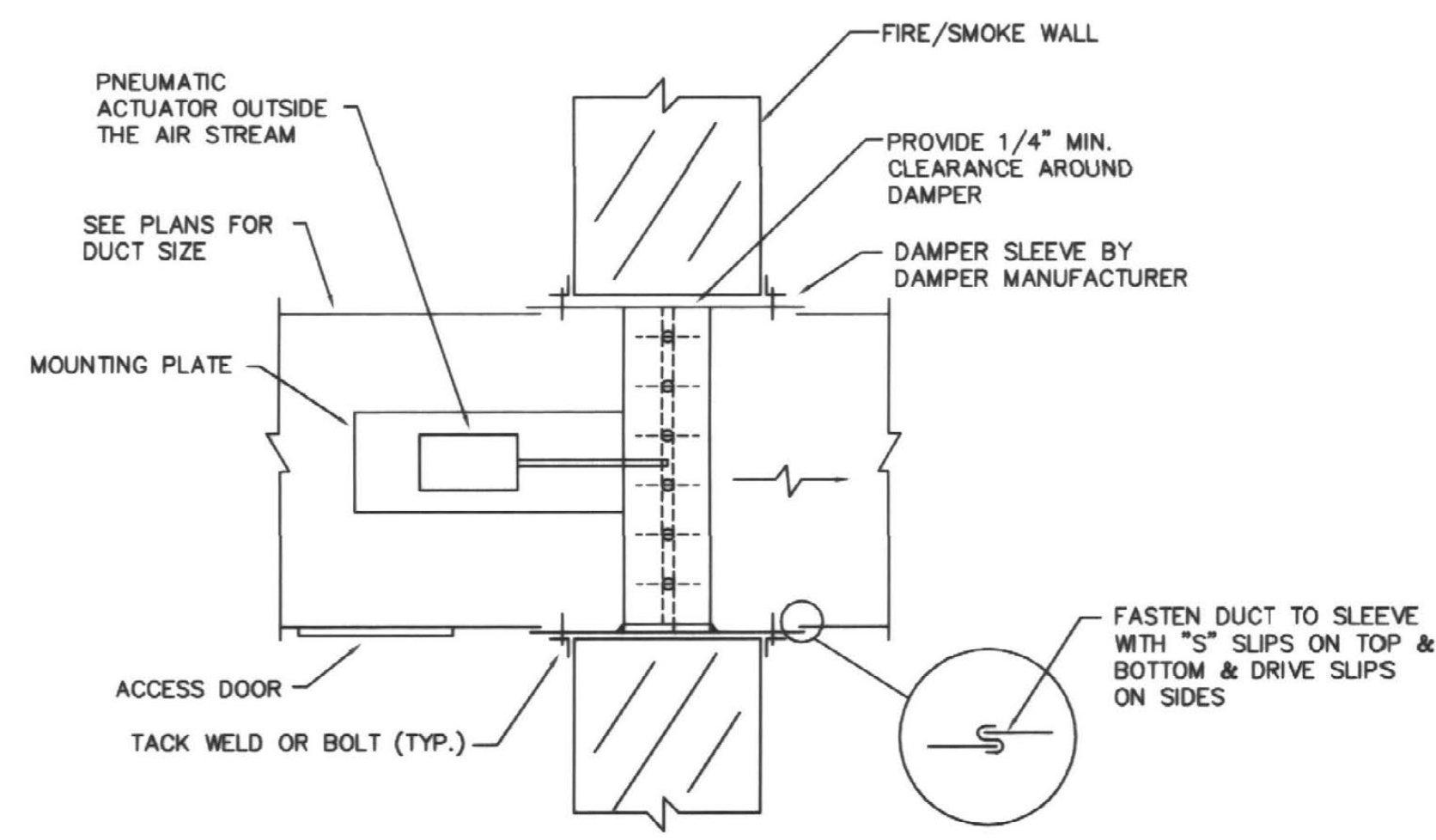
AUTOMATIC AIR VENT (AAV)

SCALE: NONE



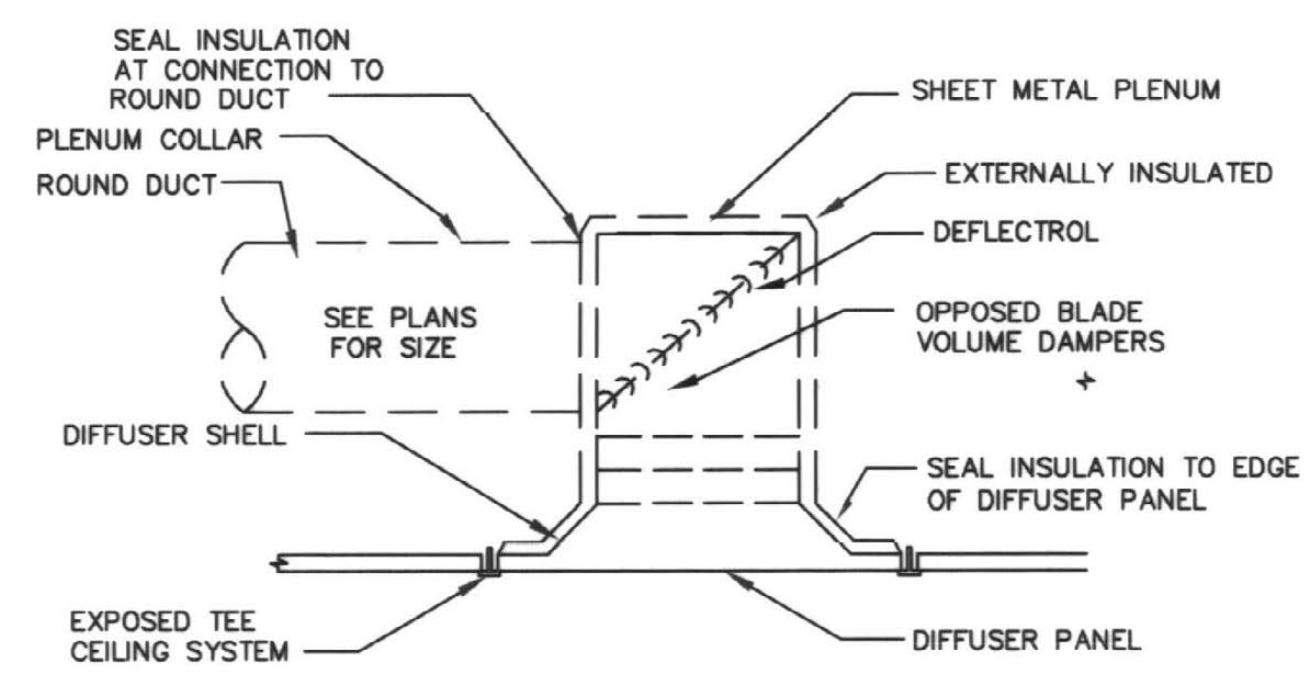
IN-LINE CIRCULATING PUMP INSTALLATION DETAIL

SCALE: NONE



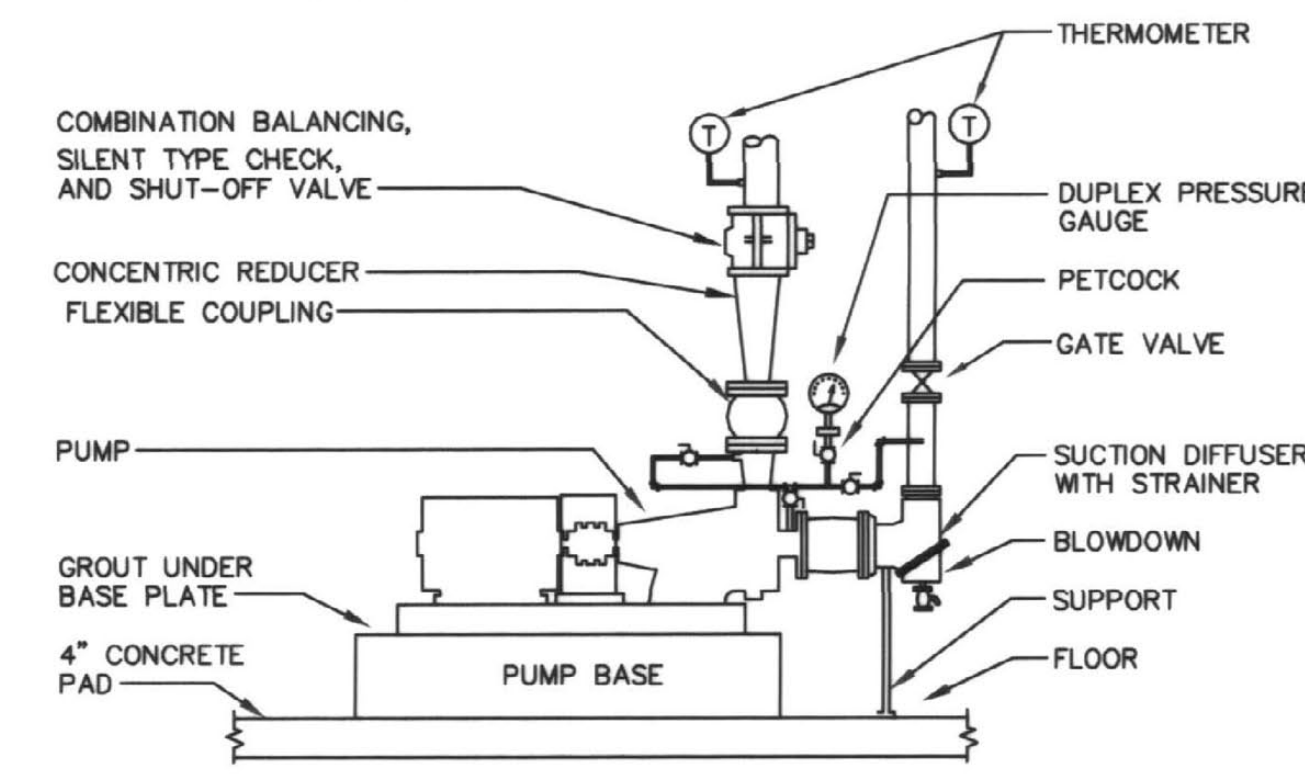
COMBINATION FIRE/SMOKE DAMPER DETAIL

NO SCALE



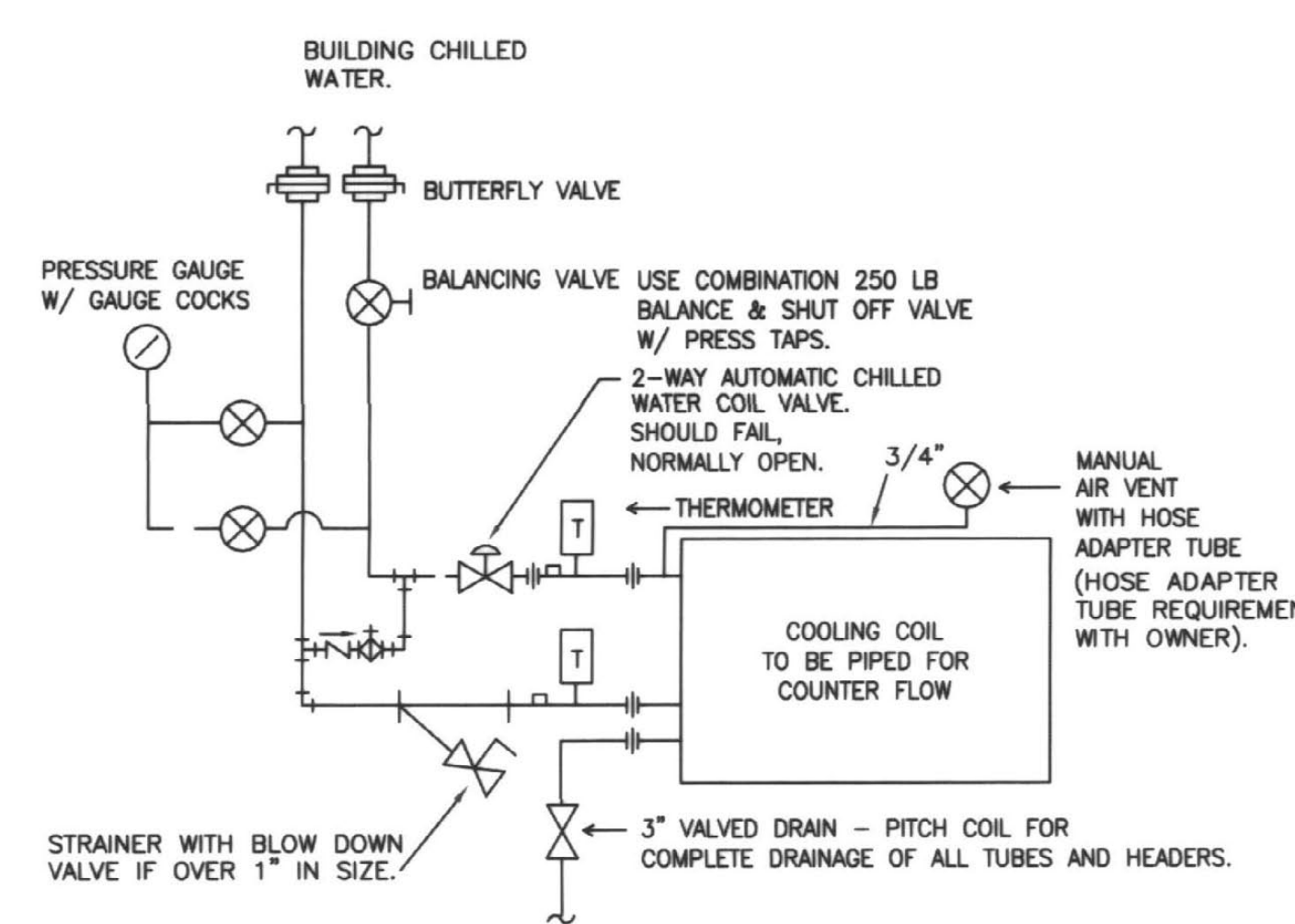
DIFFUSER CONNECTION DETAIL

SCALE: NONE



BASE MOUNTED PUMP PIPING DETAIL

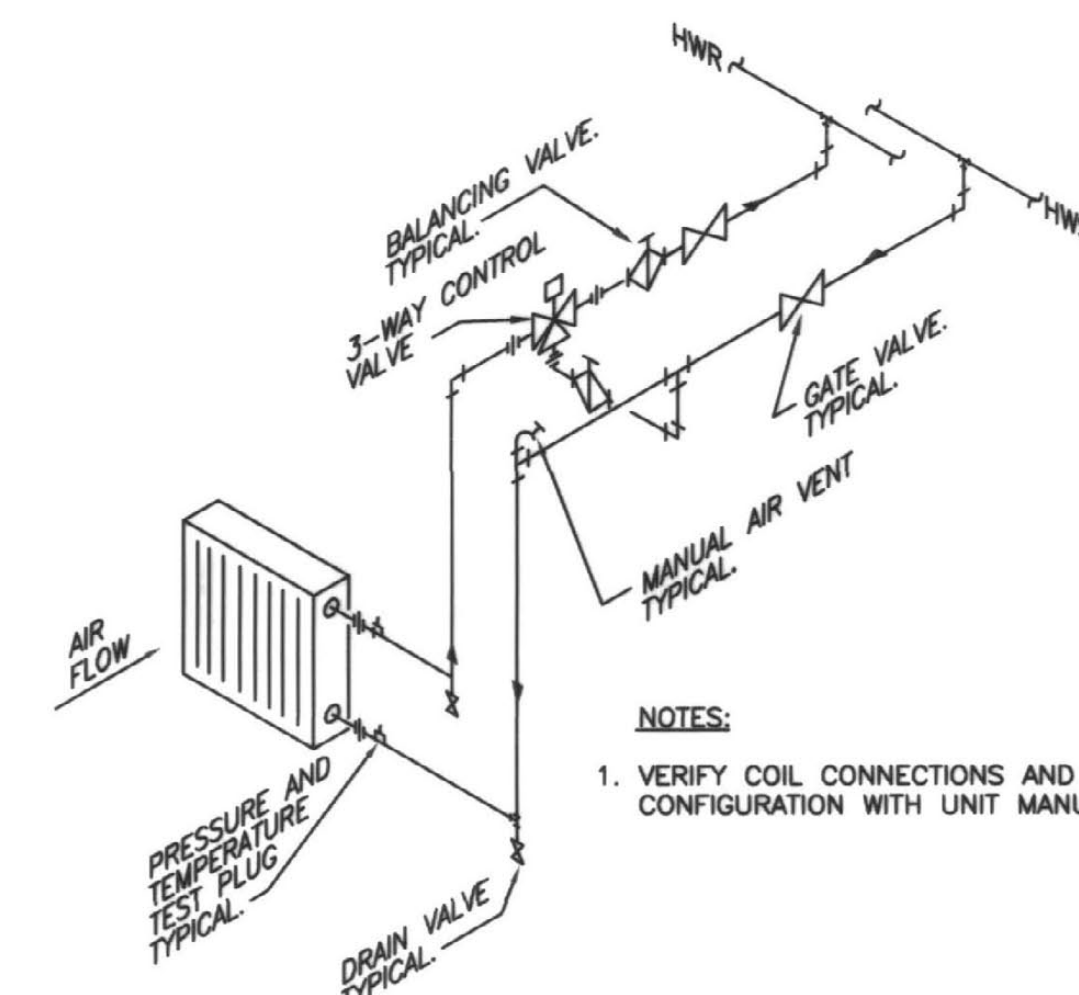
SCALE: NONE



CHILLED WATER COIL PIPING DIAGRAM

SCALE: NONE

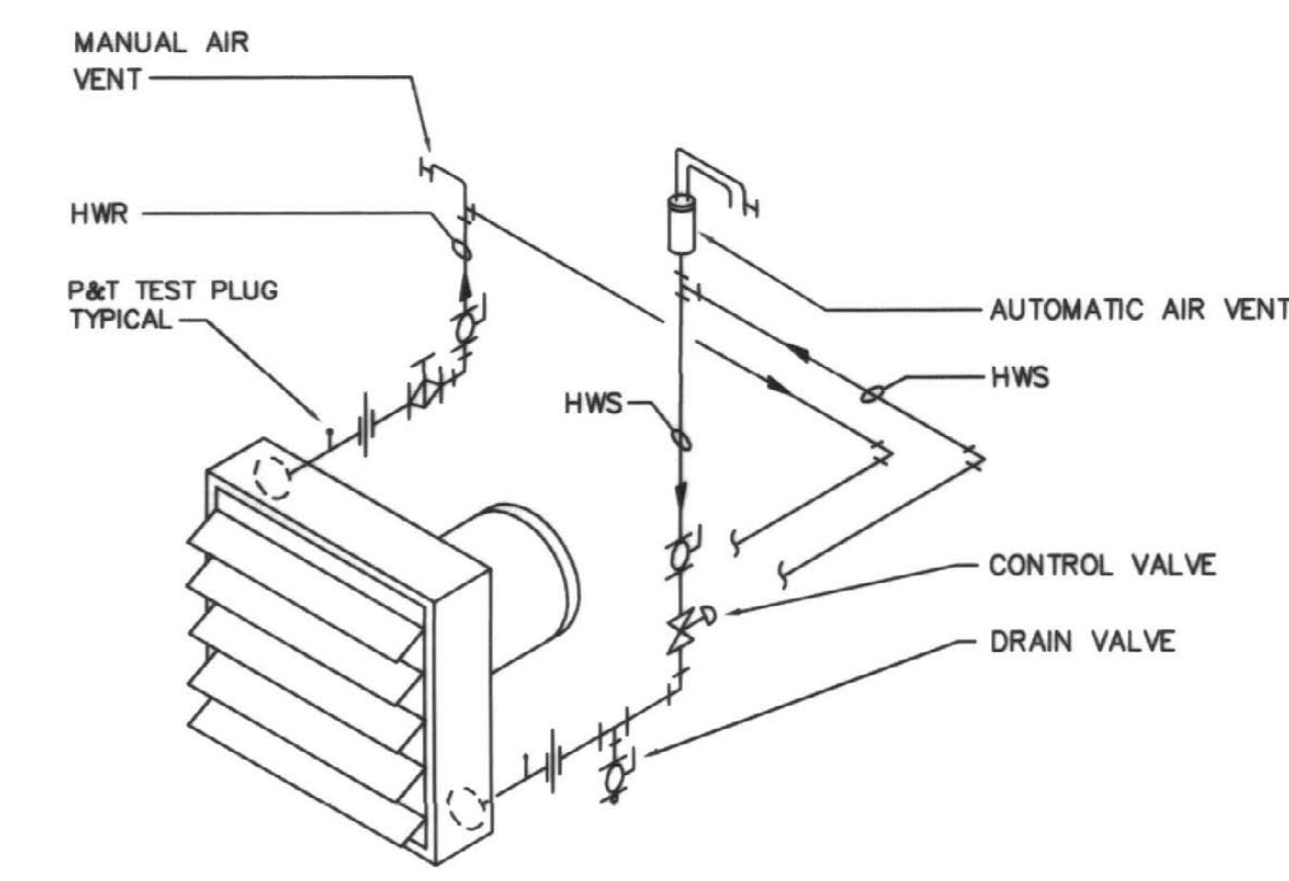
NOTE: CONTROL VALVES SHALL BE SELECTED WITH A VALVE COEFFICIENT OF 10-15.



VAV UNIT REHEAT COIL DIAGRAM

SCALE: NONE

LEGEND AND ABBREVIATIONS			
	CONTROL VALVE (2 WAY)	A.F.F.	ABOVE FINISHED FLOOR
	GATE VALVE	ADJ.	ADJUSTABLE
	GLOBE VALVE	AHU	AHU AIR HANDLING UNIT
	BALL VALVE	AS	AIR SEPARATOR
	STRAINER	AUTO.	AUTOMATIC
	FLOW - IN DIRECTION OF ARROW	B.O.P.	BOTTOM OF PIPE ELEVATION ABOVE FINISH FLOOR
	GATE VALVE IN VERTICAL PIPE	BTUH	BRITISH THERMAL UNITS PER HOUR
	RISER DOWN (ELBOW)	C.A.	COMBUSTION AIR
	RISER UP (ELBOW)	CAP.	CAPACITY
	RISE OR DROP	CDS	COOLING TOWER SUPPLY
	BRANCH - TOP CONNECTION	CDR	COOLING TOWER RETURN
	BRANCH - BOTTOM CONNECTION	CFM	CUBIC FEET PER MINUTE
	BRANCH - SIDE CONNECTION	CHEM.	CHEMICAL
	CAP ON END OF PIPE	C.C.	CYLINDRICAL
	POINT OF CONNECTION, NEW TO EXISTING	C.H.	CANOPY HOOD
	PRESSURE & TEMPERATURE TEST PLUG	CWS	CHILLED WATER SUPPLY
	DRAIN VALVE	CWR	CHILLED WATER RETURN
	BALANCING VALVE	COND	LOW PRESSURE STEAM CONDENSATE
	AIRFLOW CONTROL VALVE	CONN.	CONNECT/CONNECTION
	SUPPLY DIFFUSER	CW	DOMESTIC COLD WATER
	EXHAUST GRILLE	DIA.	DIAMETER
	DOMESTIC COLD WATER	D-#	DUCT HEATER
	BUTTERFLY VALVE	DN.	DOWN
	HOSE VALVE (UTILITY PURPOSES)	EXH.	EXHAUST AIR
	CHECK VALVE (SPECIFY TYPE)	E.A.T.	ENTERING AIR TEMPERATURE
	CONCENTRIC REDUCER	E.R.C.	ENERGY RECOVERY COIL
	VALVE IN RISER	E.S.P.	EXTERNAL STATIC PRESSURE
	ECCENTRIC REDUCER	EXP.	EXPOSED
	PIPE ANCHOR	E.W.T.	ENTERING WATER TEMPERATURE
	PIPE GUIDE	EF-#	EXHAUST FAN
	EXPANSION JOINT	EXH.	EXHAUST
	FLEXIBLE CONNECTOR	EXIST.	EXISTING
	PITCH DOWN IN DIRECTION OF ARROW	F.D.	FLOOR DRAIN OR FIRE DAMPER
	PRESSURE & TEMPERATURE TEST PLUG	FHE	FUME HOOD EXHAUST VALVE
	MANUAL AIR VENT	FHS	FUME HOOD SUPPLY VALVE
	BALANCING VALVE	FPM	FEET PER MINUTE
	MOTOR OPERATED VALVE (TWO WAY)	GEN	GENERAL EXHAUST VALVE
	PRESSURE RELIEF VALVE	HP	HORSEPOWER
	FLOW SWITCH	ERS	ENERGY RECOVERY SUPPLY
	PRESSURE GAUGE WITH GAUGE COCK	ERR	ENERGY RECOVERY RETURN
	TEMPERATURE GAUGE WITH GAUGE COCK	LPS	LOW PRESSURE STEAM
	THERMOMETER	LPR	LOW PRESSURE STEAM RETURN
	AUTOMATIC AIR VENT (AAV)	MPS	MEDIUM PRESSURE STEAM
		MPR	MEDIUM PRESSURE STEAM RETURN
		MAX	MAXIMUM
		MECH.	MECHANICAL
		MIN.	MINIMUM
		NC	NOISE CRITERIA
		O.A.	OUTSIDE AIR
		PRESS.	PRESSURE
		PS-	PIPE SUPPORT
		P-#	PUMP
		R.A.	RETURN AIR
		RM.	ROOM
		RPM	REVOLUTIONS PER MINUTE
		S.A.	SUPPLY AIR
		SHT.	SHEET
		S.P.	STATIC PRESSURE
		ST-#	SOUND TRAP
		T.C.	TEMPERATURE CONTROL
		TEMP.	TEMPERATURE
		TYP.	TYPICAL
		UH	UNIT HEATER
		VEL	VELOCITY
		WPD	WATER PRESSURE DROP
		WTD	WATER TEMPERATURE DROP



UNIT HEATER PIPING DIAGRAM

SCALE: NONE

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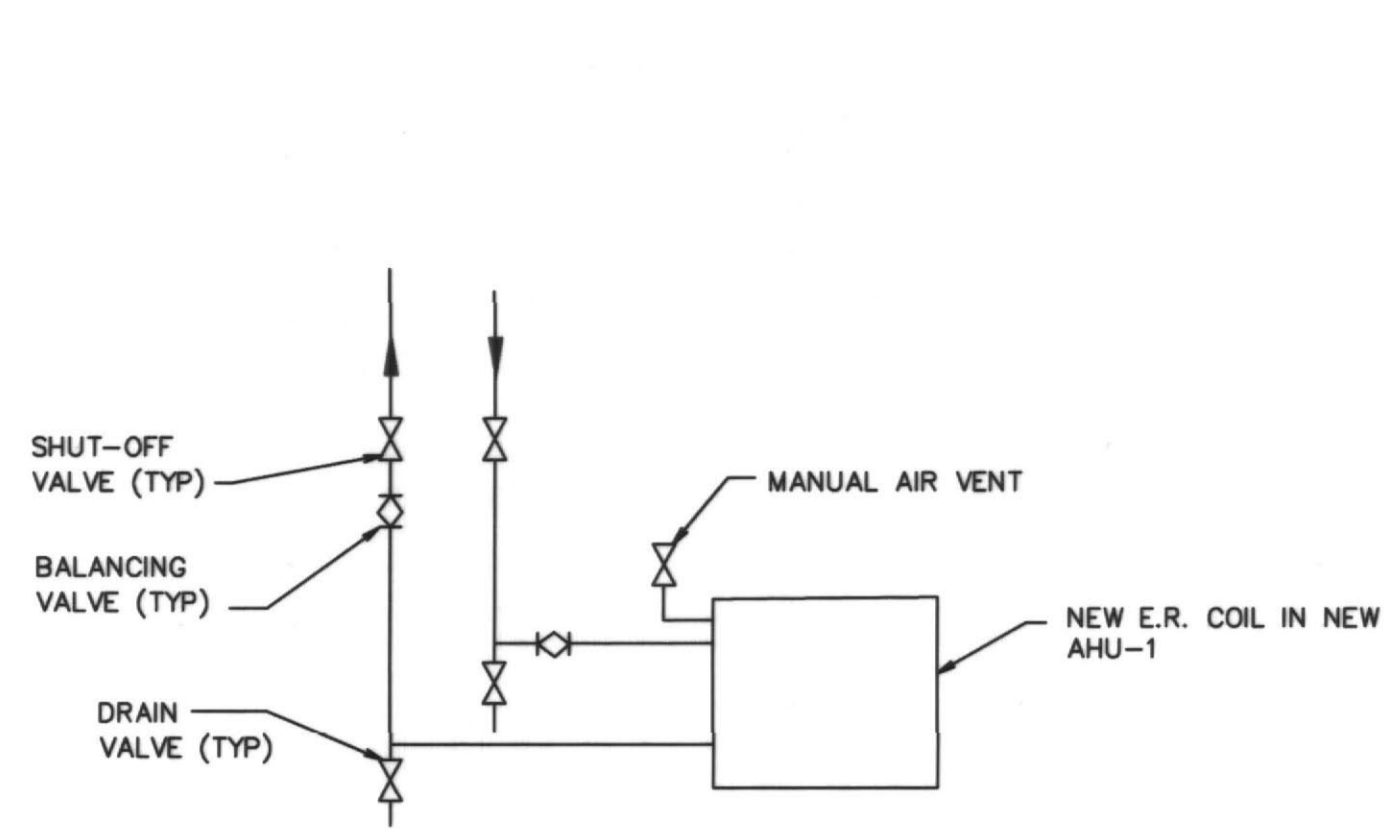
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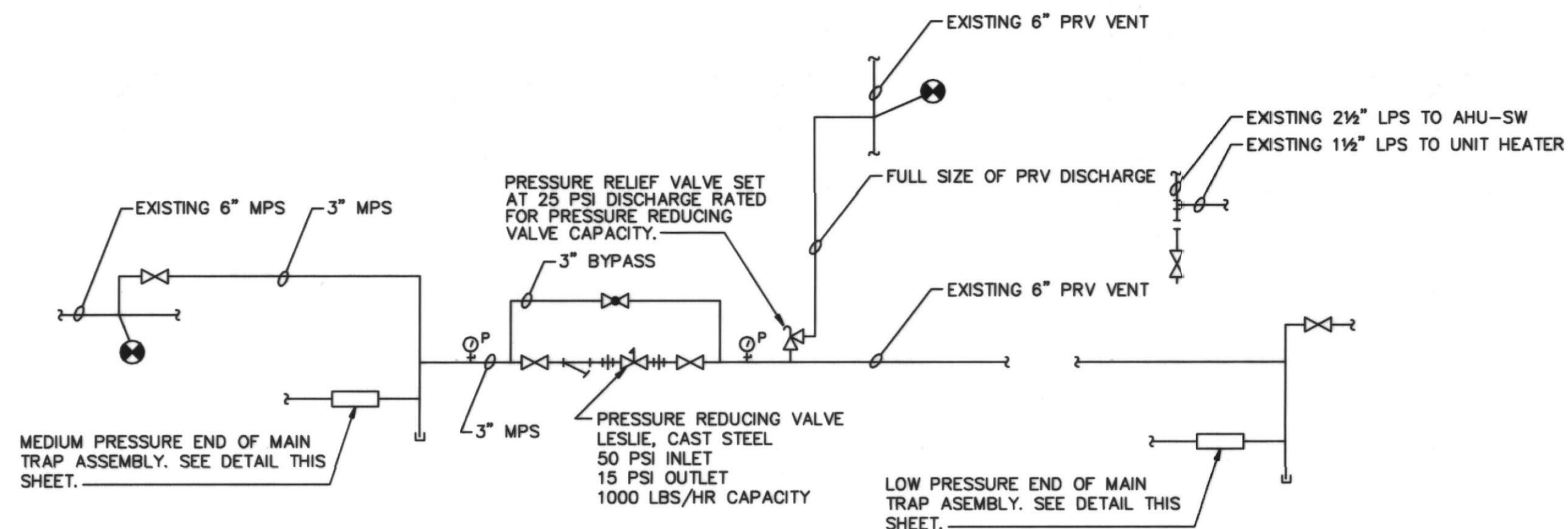
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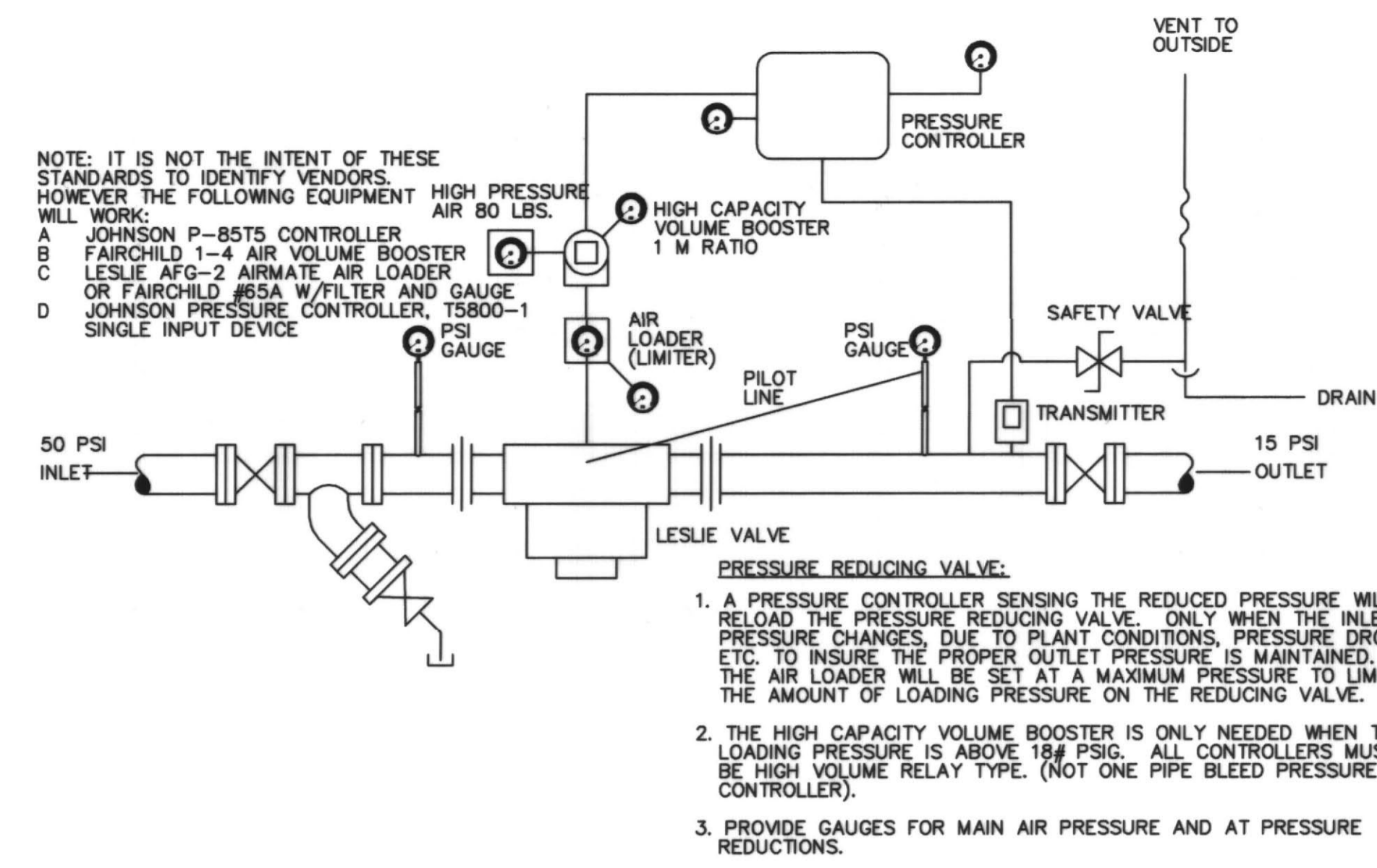
HVAC DETAILS



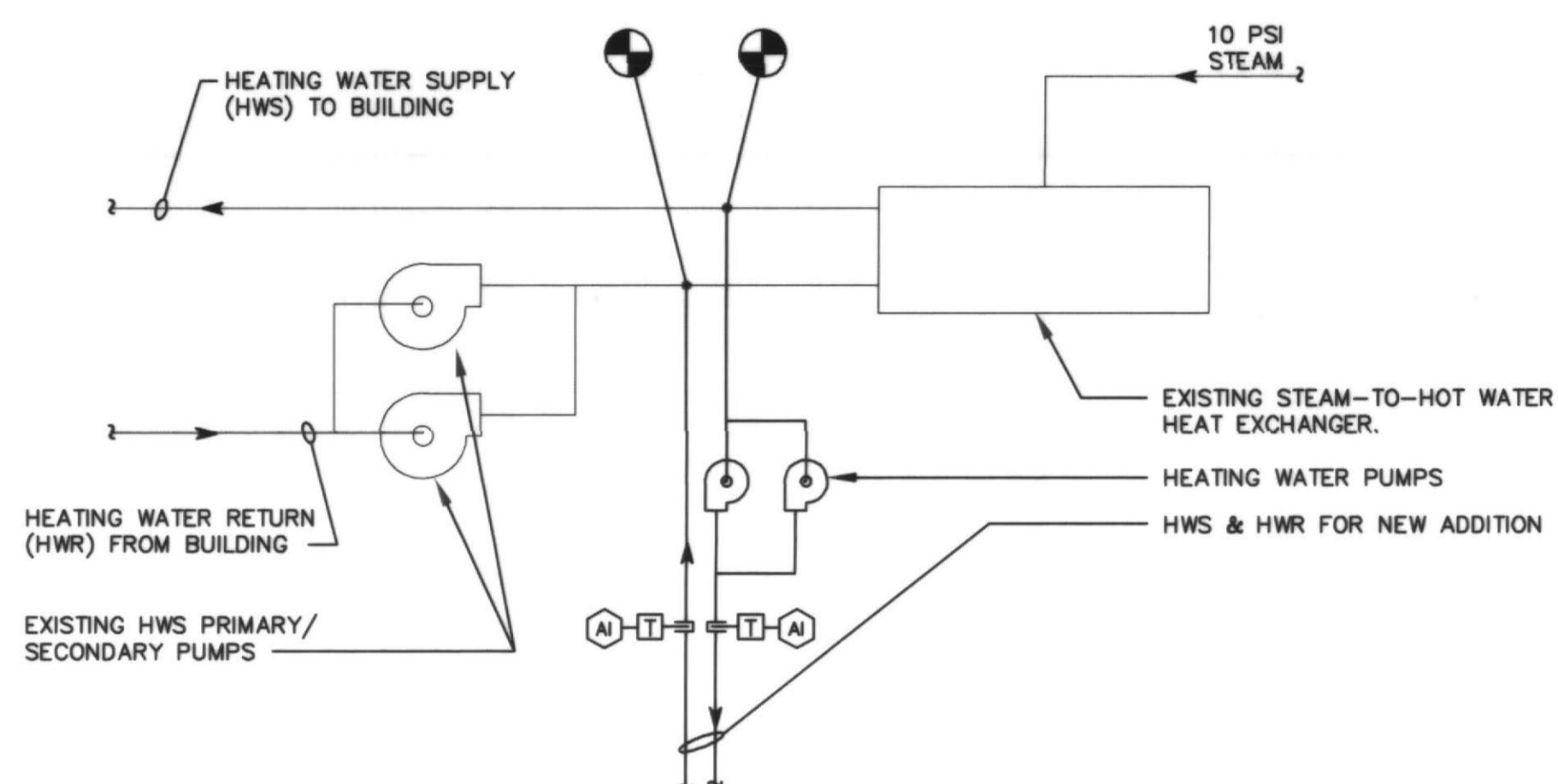
ERC PIPING DETAIL
SCALE: NONE



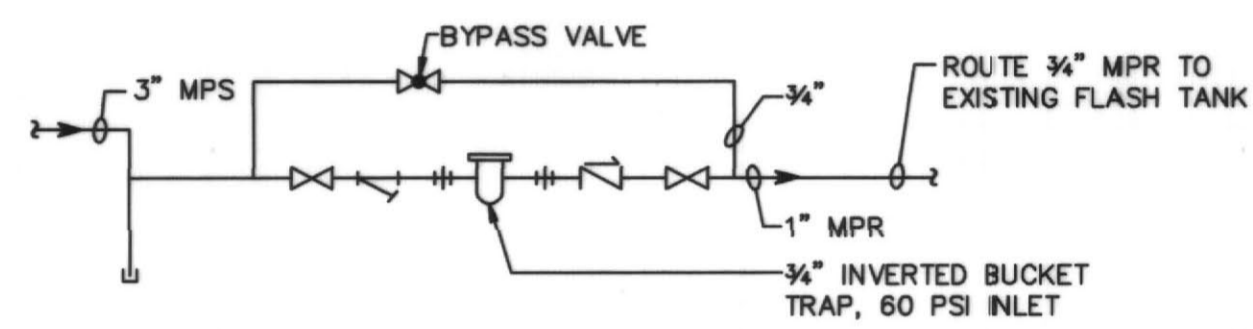
STEAM FLOW DIAGRAM
SCALE: NONE



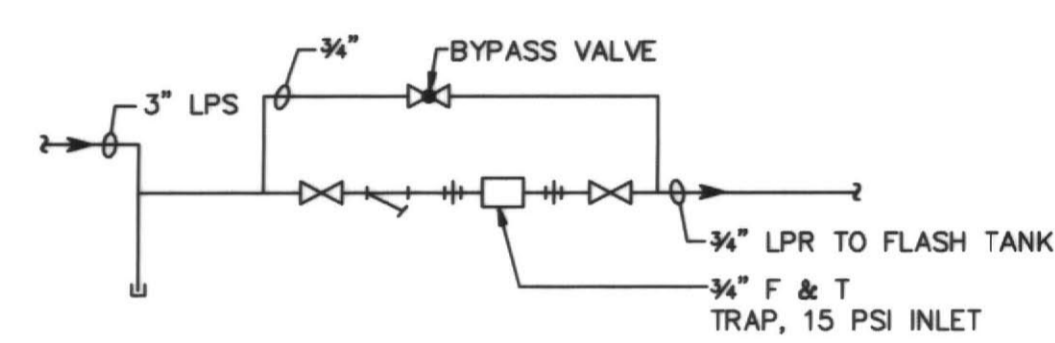
STANDARD STEAM PRESSURE REDUCING SYSTEM (CONTROL)
SCALE: NONE



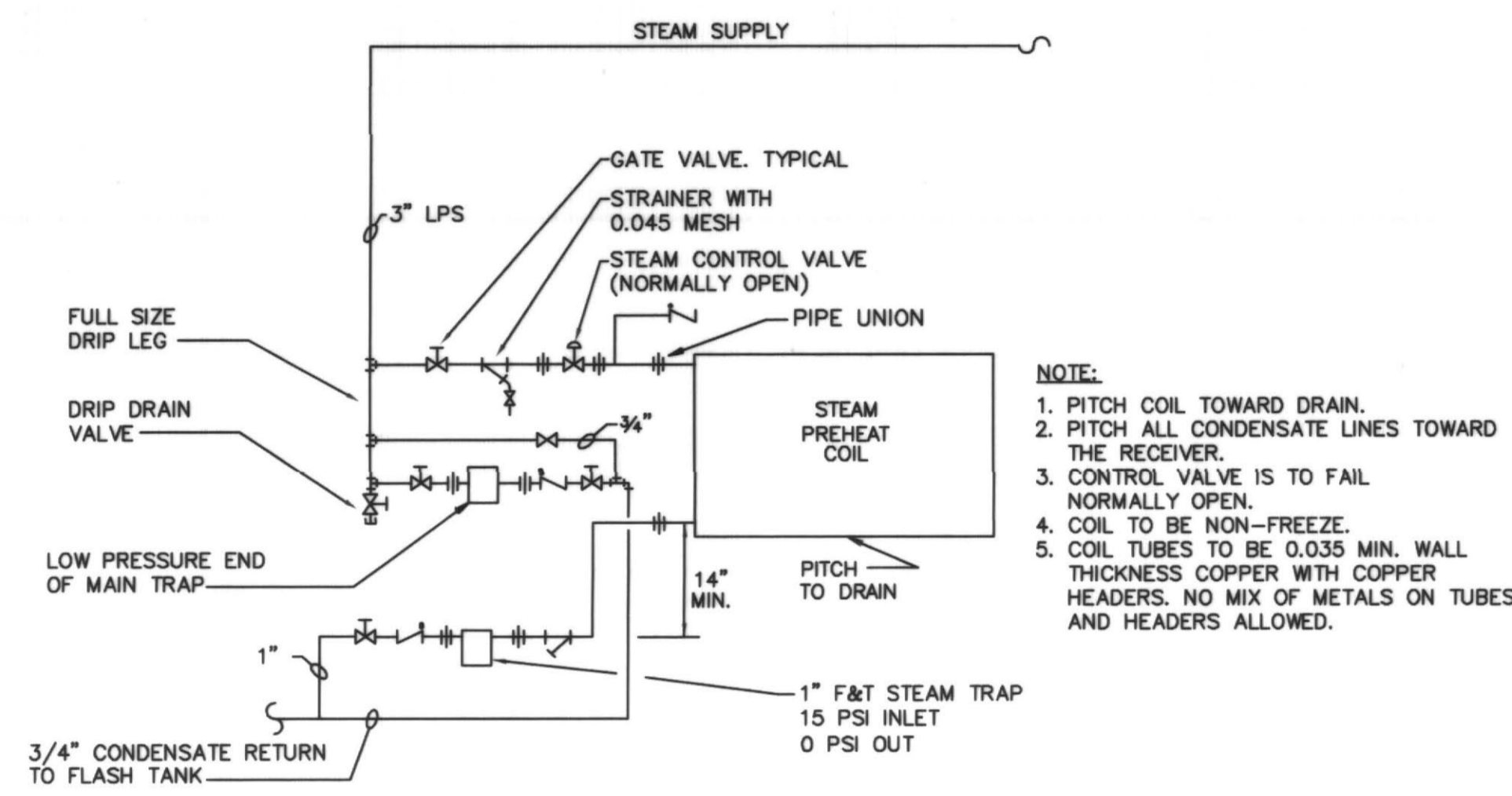
HWS & HWR FLOW DIAGRAM
SCALE: NONE



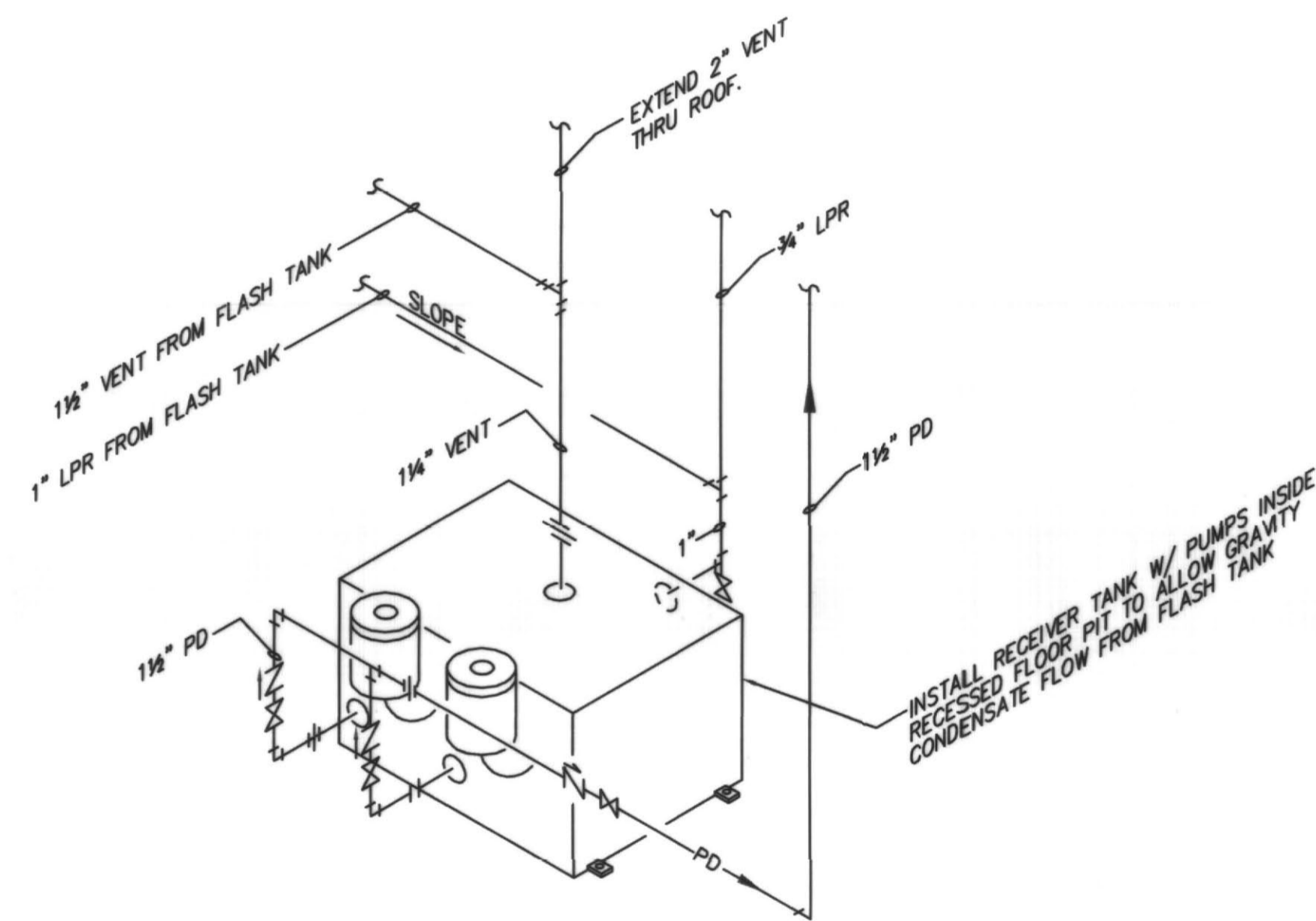
MEDIUM PRESSURE END OF MAIN TRAP ASSEMBLY
SCALE: NONE



LOW PRESSURE END OF MAIN TRAP ASSEMBLY
SCALE: NONE



AHU STEAM PREHEAT COIL DIAGRAM
SCALE: NONE

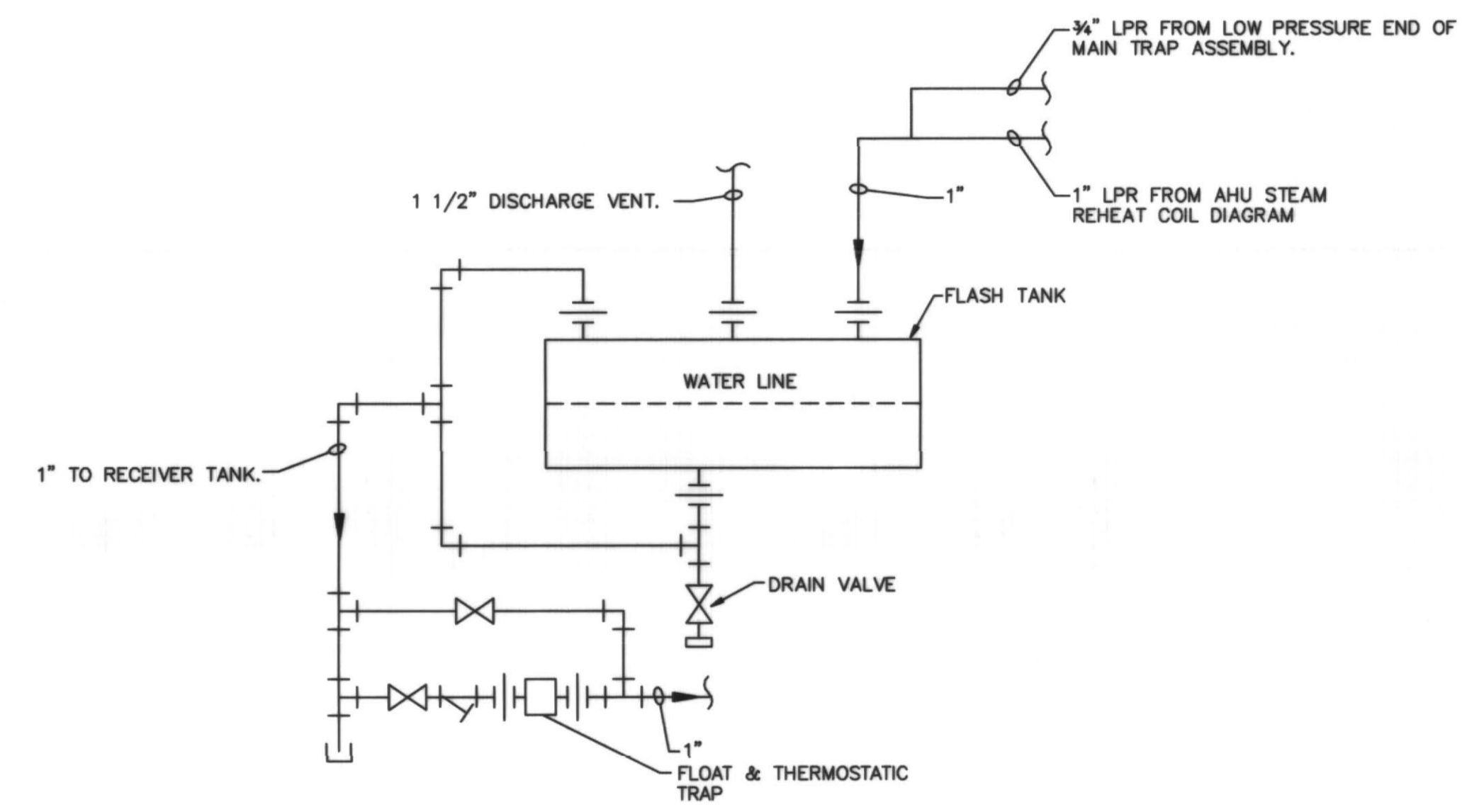


DUPLEX CONDENSATE PUMP W/ C.I. RECEIVER TANK

14 GALLON CAST IRON RECEIVER TANK
15000 EDR
30 PSI DISCHARGE PRESSURE
3/4 HP MOTOR
15 GPM

1. PROVIDE PUMPS/TANK WITH FLOAT SWITCHES.
2. INSTALL PUMPS/TANK AS INDICATED AND AS RECOMMENDED BY MANUFACTURER.

CONDENSATE RECEIVER/PUMP DETAIL
SCALE: NONE



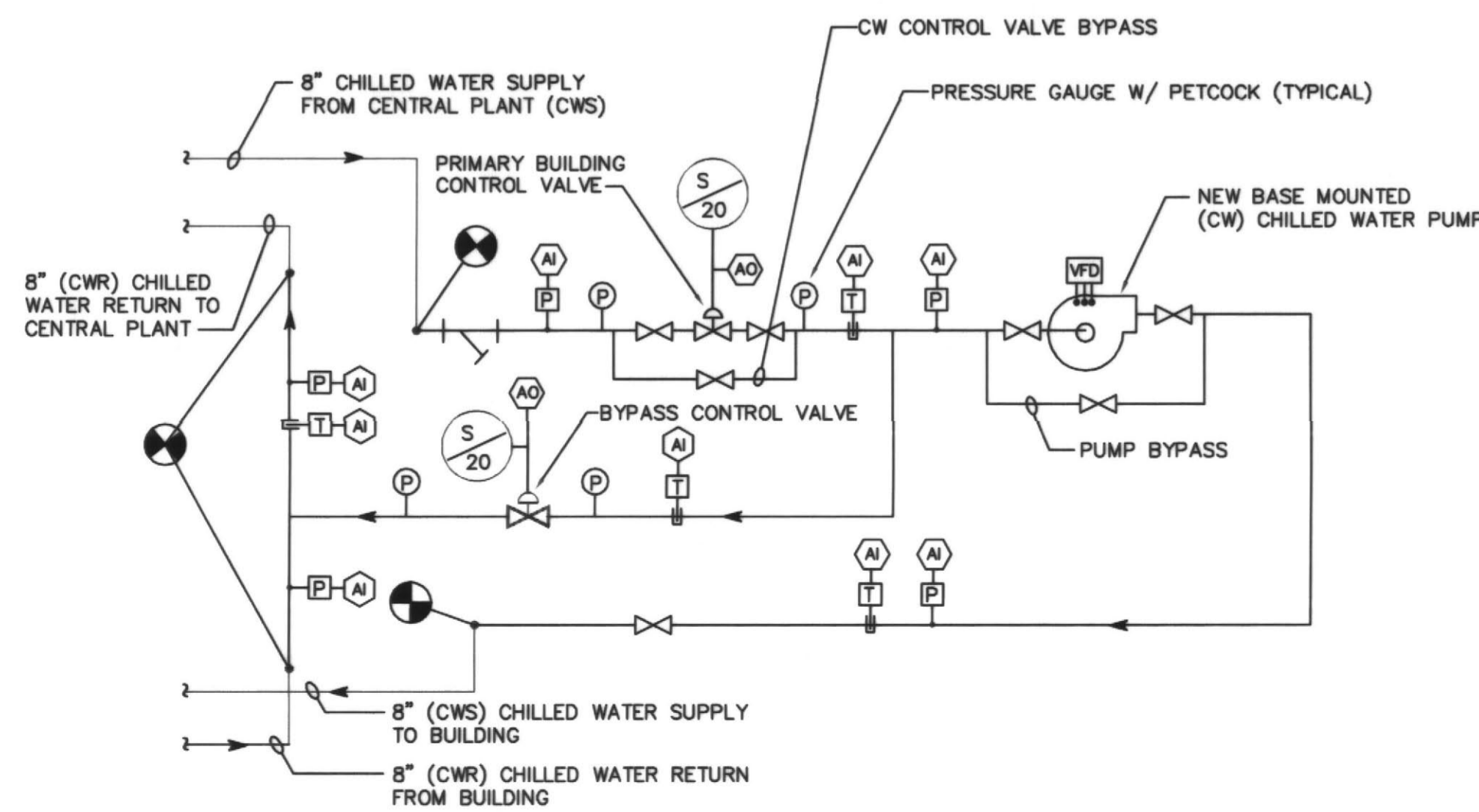
FLASH TANK DATA

TANK SF OF SURFACE (MIN.): 4.2 SF (APPROX 18" DIA x 3ft LONG)
HPCOND: 15 PSI
LBS/HR: 1100 LBS/HR HP STEAM COND.
FLASH TANK PRESSURE: 0 PSI
FLASH TANK VENT: 1 1/2"

1. FLASH TANK SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND IN COMPLIANCE WITH STATE CODE. FLASH TANK SHALL BE ASME CONSTRUCTED.
2. CONTRACTOR SHALL SUBMIT TO STATE ALL REQUIRED SHOP DRAWINGS, CUT SHEETS, ETC. AND PAY ALL ASSOCIATED PERMITS, REVIEWS, FEES, ETC.
3. FLASH TANK PIPING CONFIGURATION SHALL BE AS RECOMMENDED BY TANK MANUFACTURER. PROVIDE F&T TRAP, SIZED FOR FLASH TANK, AS RECOMMENDED BY TANK MANUFACTURER.

FLASH TANK DETAIL
SCALE: NONE

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BUILDING CHILLED WATER FLOW/CONTROL DIAGRAM
SCALE: NONE

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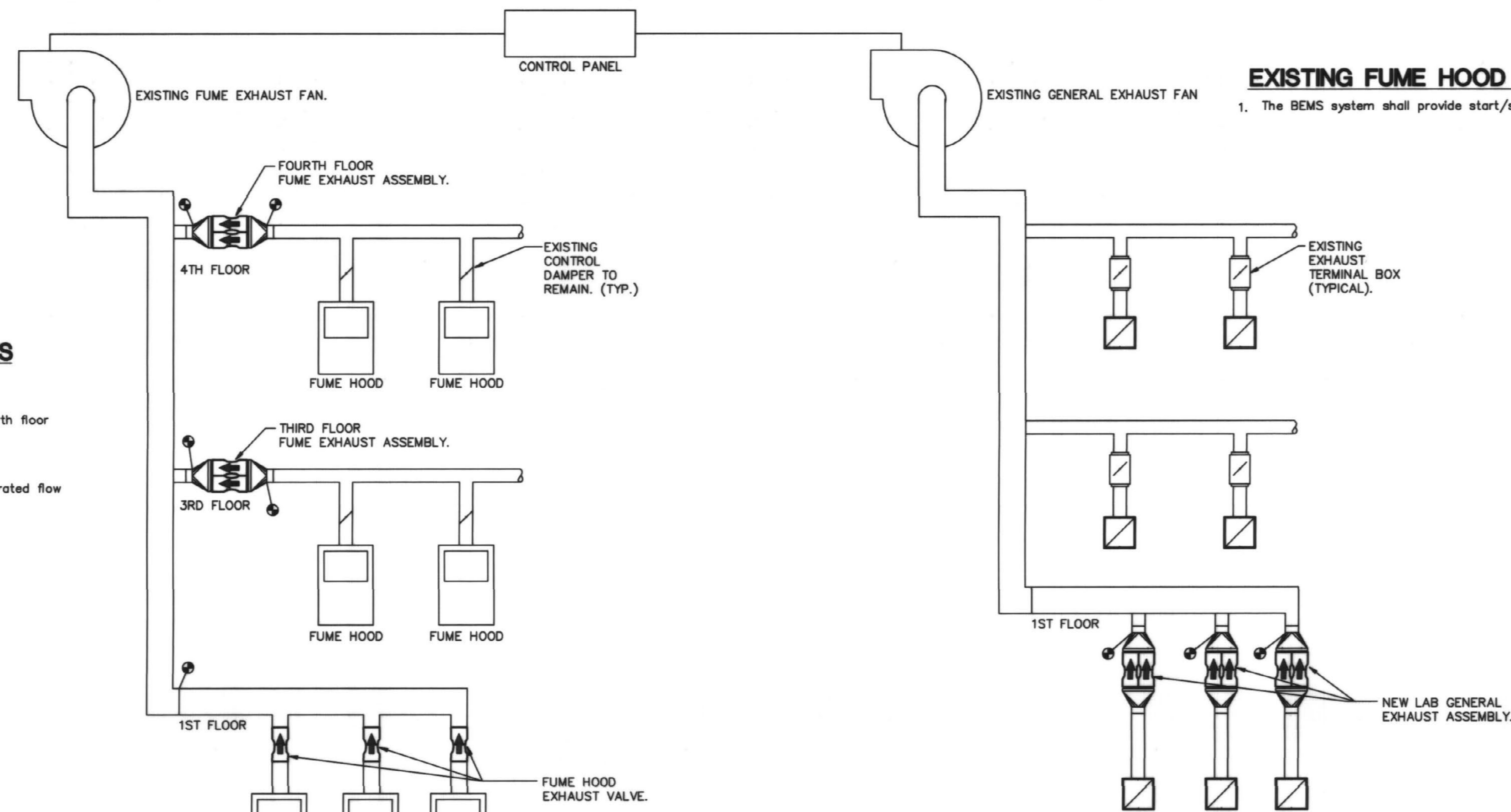
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EXISTING FUME HOOD / GENERAL EXHAUST FAN (SOUTHEND)

1. The BEMS system shall provide start/stop and status monitoring of existing exhaust fans.



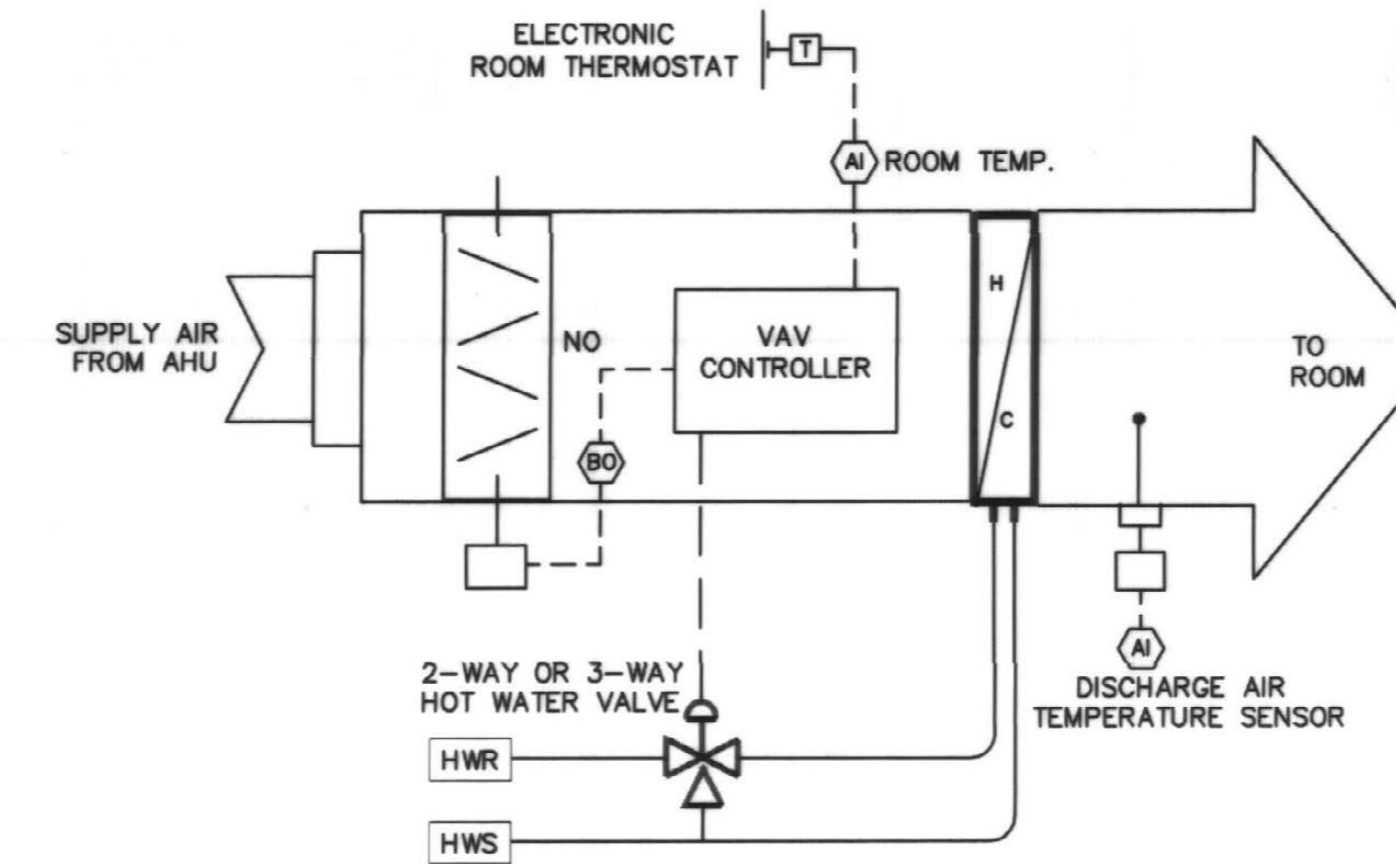
FUME HOOD EXHAUST VALVES ON EXISTING SYSTEM

1. Install valve in branch ducts serving third and fourth floor fume hoods.
2. Air valves shall be Phoenix, or approved equal.
3. Air valves shall modulate to maintain factory calibrated flow rates serving existing floors.

FUME HOOD SYSTEM

LABORATORY EXHAUST SYSTEM

LABORATORY AIRFLOW DIAGRAM
SCALE: NONE



VAV TERMINAL UNIT
SCALE: NONE

SEQUENCE OF OPERATION

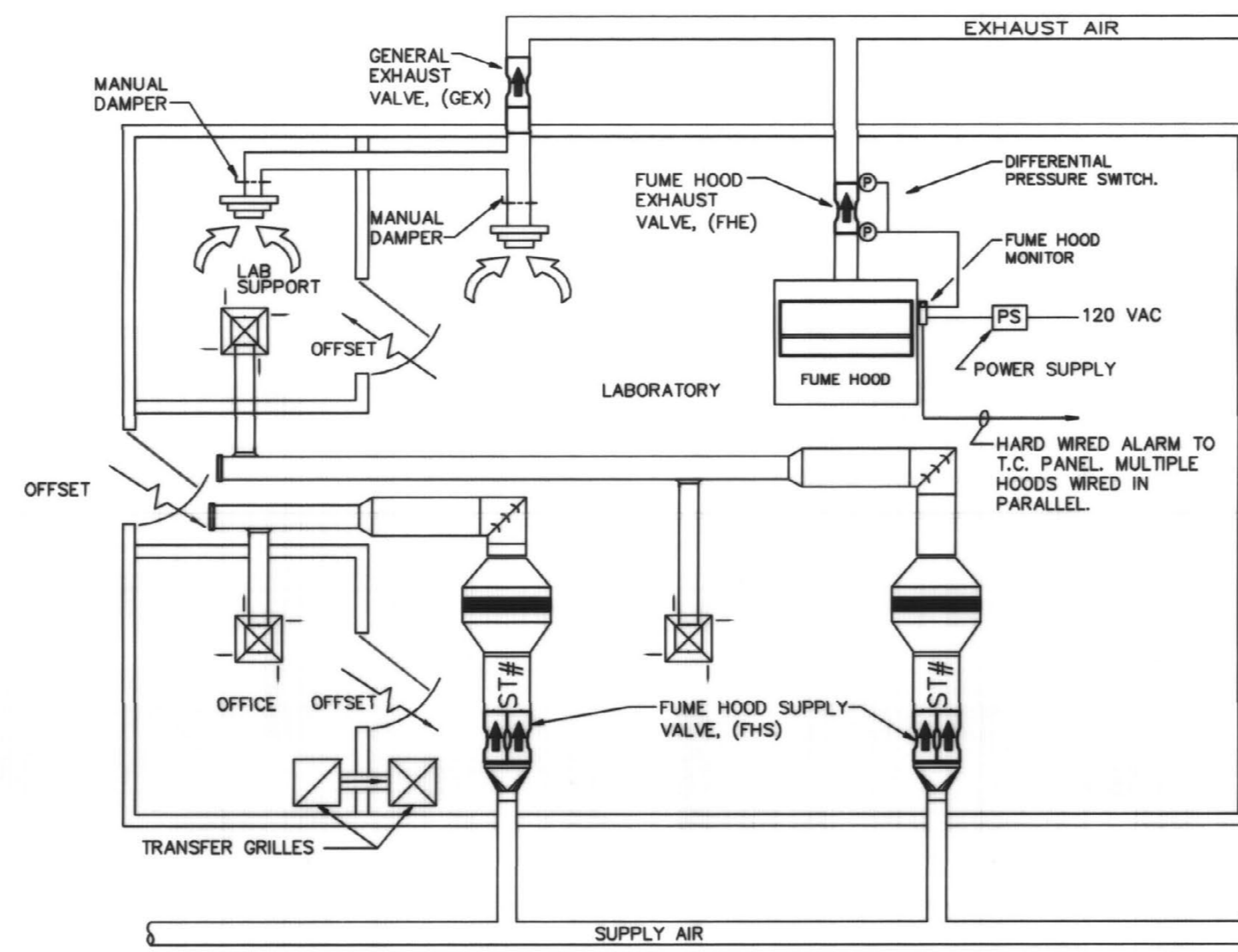
NOTE: MOST VAV TERMINAL UNITS HAVE 2-WAY CONTROL VALVES, BUT SOME HAVE 3-WAY VALVES. SEE HVAC TERMINAL UNIT SCHEDULE FOR CONTROL VALVE TYPE.

1. PRESSURE INDEPENDENCE. A DIFFERENTIAL PRESSURE SENSOR SHALL MEASURE THE AIRFLOW THROUGH THE UNIT SO THAT DAMPER CONTROL IS BASED ON AIRFLOW REQUIREMENTS RATHER THAN SIMPLY DAMPER POSITION. THE CONTROLS SHALL BE ABLE TO "ZERO" THE AIRFLOW SENSOR DURING UNOCCUPIED PERIODS.
2. ROOM TEMPERATURE CONTROL. ON A RISE IN ROOM TEMPERATURE ABOVE COOLING SETPOINT, THE VAV TERMINAL UNIT DAMPER SHALL MODULATE OPEN, BUT NOT GREATER THAN ITS MAXIMUM AIRFLOW. AS SPACE TEMPERATURE DROPS BELOW THE COOLING SETPOINT, THE DAMPER SHALL MODULATE CLOSED, BUT NOT LOWER THAN ITS MINIMUM AIRFLOW. IF ROOM TEMPERATURE FALLS BELOW THE HEATING SETPOINT, THE DAMPER SHALL MODULATE TO ITS MINIMUM AIRFLOW AND THE REHEAT WATER CONTROL VALVE SHALL MODULATE TO MAINTAIN THE ROOM HEATING SETPOINT. WHEN THE REHEAT WATER CONTROL VALVE OPENS TO MORE THAN 50%, THE DAMPER SHALL MODULATE TO THE REHEAT AIRFLOW SETPOINT.
3. THERMOSTAT. EACH VAV TERMINAL UNIT ZONE SHALL HAVE A THERMOSTAT LOCATED AS INDICATED. THE OCCUPANT SHALL BE ABLE TO SET THE ROOM HEATING AND COOLING SETPOINTS AT THE THERMOSTAT OVER A LIMITED RANGE.
4. DISCHARGE AIR TEMPERATURE. THE EMS SHALL BE ABLE TO MONITOR THE DISCHARGE AIR TEMPERATURE OUT OF EACH VAV TERMINAL UNIT.
5. BEMS SHALL BE CAPABLE OF COMMANDING THE DAMPER TO FULLY OPEN, FULLY CLOSED, MAXIMUM AIRFLOW, OR MINIMUM AIRFLOW.
6. OCCUPIED/UNOCCUPIED MODES. BUILDING OCCUPANCY MODE SHALL BE DETERMINED BY A PROGRAMMABLE 7-DAY SCHEDULE, WITH INITIAL OCCUPIED TIMES COORDINATED WITH USERS. THE BEMS SHALL ALSO HAVE THE ABILITY TO HANDLE HOLIDAYS AND OTHER ADVANCE SCHEDULING. DURING UNOCCUPIED MODE, THE REHEAT CONTROL VALVE SHALL BE CLOSED AND UNOCCUPIED SETPOINTS (55°F ROOM HEATING SETPOINT, 85°F ROOM COOLING SETPOINT, ADJ.) SHALL BECOME ACTIVE.
7. EACH VAV TERMINAL THERMOSTAT SHALL HAVE AN OVERRIDE BUTTON. WHEN THIS BUTTON IS PRESSED DURING UNOCCUPIED MODE, THE VAV TERMINAL MODE SHALL SWITCH TO OCCUPIED FOR A PERIOD OF TWO HOURS.

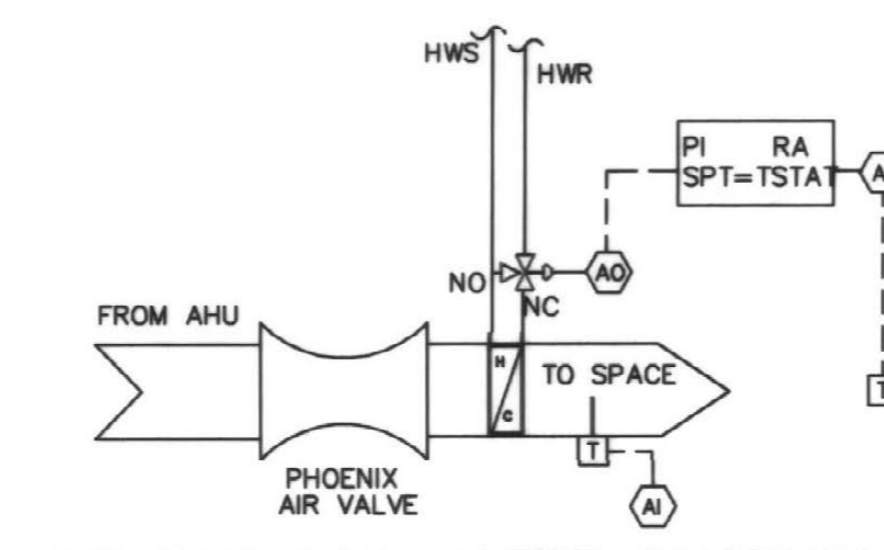
SEQUENCE OF OPERATION

1. As the fume hood sash is raised or lowered, the sash sensor signal to the fume hood monitor shall change proportionally. Based on this input, the fume hood monitor shall generate a 0-10 VDC linear, calibrated signal to control the fume hood exhaust valve, maintaining a constant average face velocity at the fume hood opening. The fume hood exhaust valve shall send a 0-10 VDC feedback signal (proportional to the CFM flow at the valve) to the make-up air controller card located on the make-up air valve.
2. The make-up air controller card shall calculate the total hood exhaust volume by summing the feedback signal from the hood exhaust valve, and shall generate a 0-10 VDC total hood exhaust signal.
3. The make-up air controller card shall maintain a constant, adjustable net negative offset between the room's total exhaust and make-up air volumes. This offset shall not vary with changes in exhaust volume magnitude and represents the volume of air that will enter the room from the corridor or other sources.
4. If a negative room offset is desired, the make-up air controller card shall reset the total hood exhaust signal by subtracting the quantity of offset desired. The resultant 0-10 VDC signal is the total hood make-up air signal and represents the volume of supply air required to satisfy the hood demand with respect to the desired constant offset.
5. The make-up air controller card shall be calibrated to maintain a minimum ventilation make-up air volume into the laboratory.
6. The make-up air command signal shall be generated by comparing the minimum ventilation signal to the total hood make-up air signal and selecting the higher of these two signals as the command.
7. The make-up air controller shall increase the command signal to the room's general exhaust valve under conditions where the minimum ventilation make-up air volume is being delivered to the room, and the fume hood exhaust valve is exhausting less than this minimum ventilation volume. Thus the general exhaust valve will open inversely to the fume hood exhaust valve when the hood's sash is lowered beneath the make-up air valves' minimum ventilation volume.
8. Interconnect room systems with corridor offset supply air valve(s) to maintain offset.

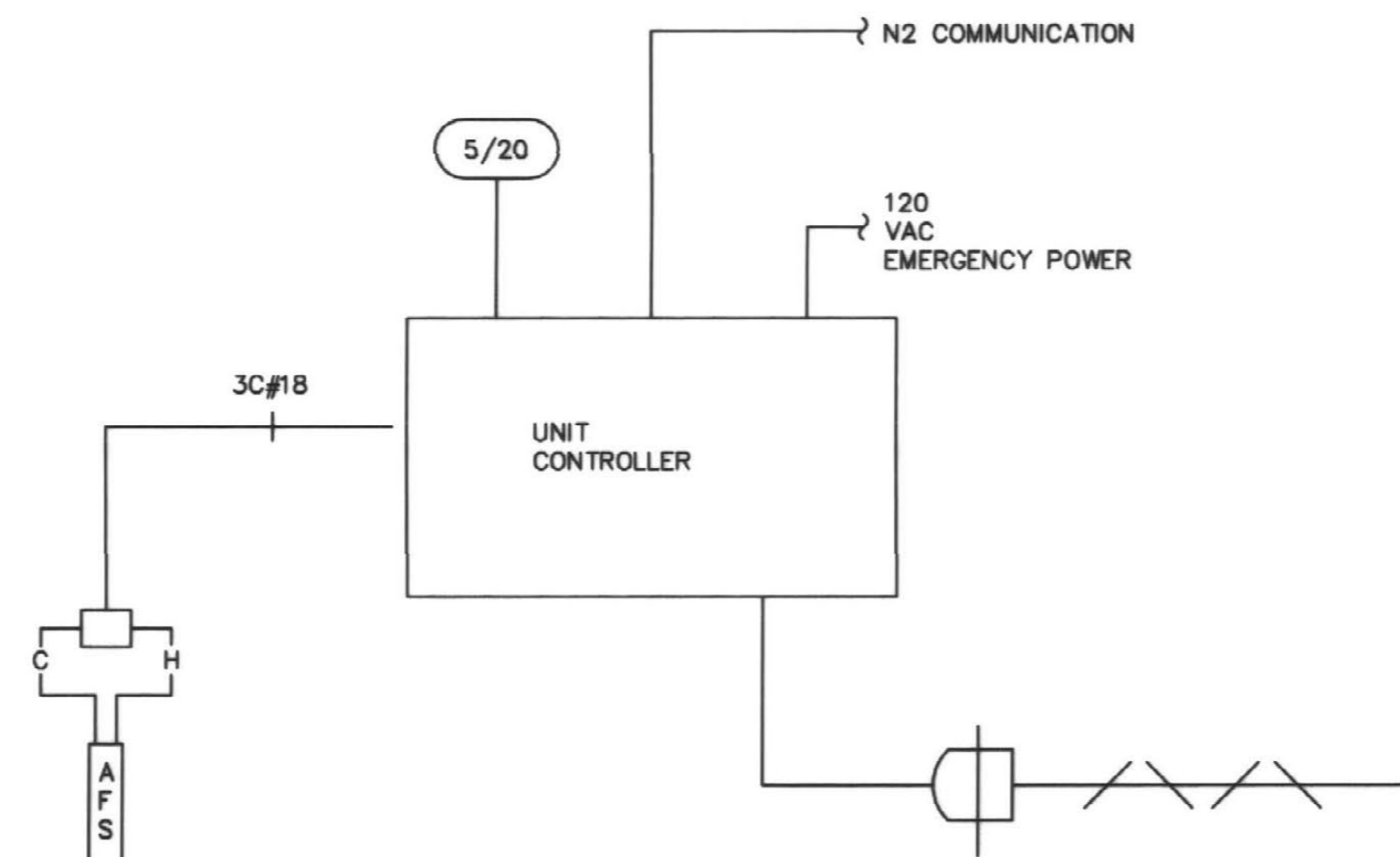
**Note that the space thermostat shall control the reheat coil independent of the make-up air valve position.



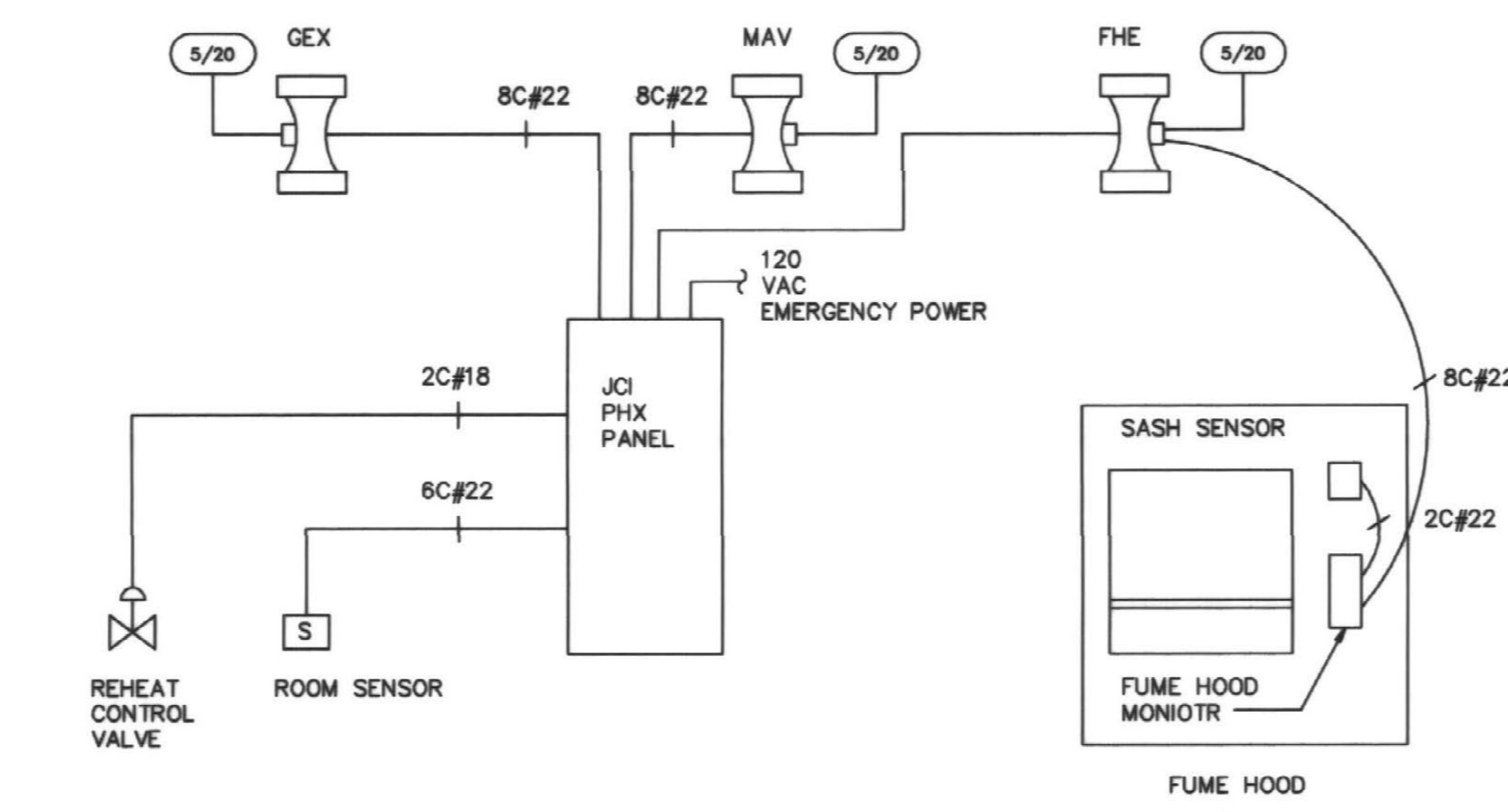
LABORATORY AIRFLOW DIAGRAM (TYPICAL)
SCALE: NONE



REHEAT COIL AFTER PHOENIX VALVE
SCALE: NONE



GENERAL EXHAUST AIR FLOW
SCALE: NONE



TYPICAL LABORATORY
SCALE: NONE

VARIABLE AIR VOLUME (VAV) TERMINAL UNITS LABORATORY REHEAT COIL

SEQUENCE OF OPERATION

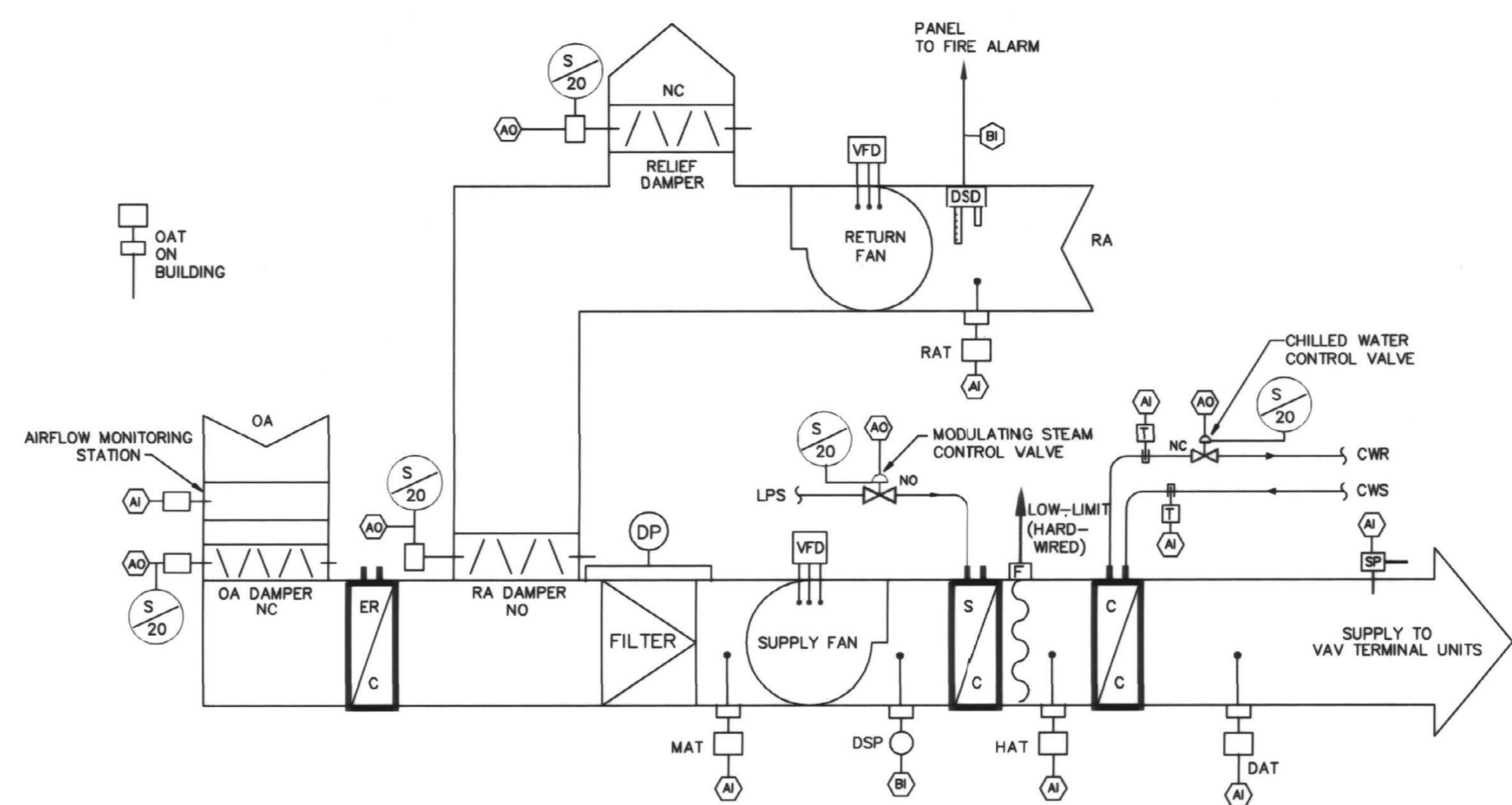
1. Occupied Mode: When the room temperature is between the heating and cooling setpoints (inside of the bias), the air valve will modulate to maintain the maximum scheduled air flow and the reheat valve will modulate to remain the room temperature setpoint.
2. Unoccupied Mode: When the room temperature is between the heating and cooling setpoints (inside of the bias), the air valve will modulate to maintain the minimum scheduled air flow and the reheat valve will modulate to remain the room temperature setpoint.
3. Laboratory Reheat Coil Occupied Mode: The controller will modulate the reheat valve to maintain the room temperature setpoint.
4. Laboratory Reheat Coil Unoccupied Mode: The controller will modulate the reheat valve to maintain the night setback temperature setpoint (adj).
5. Discharge Air Temperature: Discharge air temperature sensor is provided for monitoring only.

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SEQUENCE OF OPERATION

- DISCHARGE AIR TEMPERATURE (DAT) SETPOINT: THE DDC CONTROLLER WILL UTILIZE A PID (PROPORTIONAL INTEGRAL DERIVATIVE) CONTROL LOOP TO RESET THE DAT SETPOINT IN ORDER TO MAINTAIN THE AVERAGE ROOM AIR TEMPERATURE (ART) SETPOINT OF 72°F (ADJ). THE ART SHALL BE DETERMINED BY AVERAGING THE TERMINAL BOX ROOM TEMPERATURE SENSORS. THE ART CALCULATION SHALL BE PROTECTED FROM FAILED TEMPERATURE SENSOR ERROR BY DISREGARDING A READING THAT IS OUT OF RANGE. THE OPERATOR SHALL BE ABLE TO SELECT OR DESELECT ANY ROOMS FROM THE AVERAGE CALCULATION.
- CHILLED WATER COOLING: WHEN DAT IS HIGHER THAN THE DAT SETPOINT, THE CHILLED WATER VALVE SHALL MODULATE OPEN WITH PROPORTIONAL-INTEGRAL CONTROL TO MEET THE DAT SETPOINT. THE CHILLED WATER VALVE SHALL OPEN WHEN THE ECONOMIZER IS OPERATING ONLY IF THE ECONOMIZER ALONE CANNOT MAINTAIN THE DAT SETPOINT. THE CHILLED WATER CONTROL VALVE SHALL BE LOCKED OUT WHEN THE OAT IS BELOW 45°F (ADJ).
- HEATING: WHEN HAT IS LESS THAN DAT SETPOINT AND THE SUPPLY FAN IS RUNNING, THE STEAM CONTROL VALVE SHALL MODULATE OPEN WITH PROPORTIONAL-INTEGRAL CONTROL TO MAINTAIN HAT AT THE DAT SETPOINT. DURING HEATING, THE OUTDOOR AIR DAMPER SHALL MAINTAIN MINIMUM OUTSIDE AIRFLOW. CONTROL SHALL PREVENT HEATING (OPENING OF STEAM CONTROL VALVE) FROM OCCURRING SIMULTANEOUSLY WITH COOLING (OPENING OF CHILLED WATER CONTROL VALVE). THE STEAM CONTROL VALVE SHALL BE LOCKED OUT WHEN THE OAT IS ABOVE 65°F (ADJ).
- STATIC PRESSURE CONTROL: A DUCT STATIC PRESSURE SENSOR SHALL BE INSTALLED 2/3 DOWN THE HIGH PRESSURE DUCTWORK. STATIC PRESSURE SETPOINT SHALL BE INITIALLY SET AT 1.5" W.G. (ADJ), WITH ADJUSTMENTS MADE AS NEEDED BY THE BALANCE CONTRACTOR. EMS SHALL MODULATE VARIABLE FREQUENCY DRIVES ON THE SUPPLY FAN BASED ON THE STATIC PRESSURE READING. ALSO, A HIGH-LIMIT, MANUAL-RESET STATIC PRESSURE SENSOR SHALL BE INSTALLED AT THE SUPPLY FAN DISCHARGE WITH INITIAL SETPOINT OF 6" W.G. THAT WILL SHUTDOWN THE FANS WHEN TRIPPED AND SEND AN ALARM TO BEMS.
- RETURN FAN RF-1 VFD SHALL MODULATE TO MAINTAIN RETURN AIRFLOW SETPOINT. THIS SETPOINT SHALL BE DETERMINED FROM THE FOLLOWING (ALL VALUES CFM):
RETURN AIRFLOW = SUPPLY AIRFLOW - LABS EXHAUST AIRFLOW - OFFSET
LABS EXHAUST AIRFLOW IS THE SUM OF THE AIRFLOWS THROUGH BOTH THE FLUME HOOD AND GENERAL EXHAUST AIRFLOW CONTROL VALVES IN THE LABS SERVED BY AHU-1.
OFFSET IS A CONSTANT TO PROVIDE POSITIVE BUILDING PRESSURIZATION WHICH INCLUDES AN AMOUNT TO MAKEUP FOR RESTROOM EXHAUST. INITIAL OFFSET SHALL BE 1500, ADJUSTABLE.
- DURING OCCUPIED MODE, THE OA DAMPER SHALL MODULATE TO MAINTAIN THE MINIMUM OUTSIDE AIRFLOW.
- AHU SHALL BE IN ECONOMIZER MODE WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW 45°F (ADJ). IN ECONOMIZER MODE THE OA DAMPER SHALL MODULATE TO MAINTAIN THE DAT SETPOINT. IN ECONOMIZER MODE, THE RA DAMPER SHALL CLOSE AS THE OA AND RELIEF DAMPERS OPEN, AND VICE VERSA.
- UNOCCUPIED HEATING: DURING UNOCCUPIED MODE IF THE ART OF THE AHU'S SERVICE AREA DROPS BELOW THE UNOCCUPIED HEATING TEMPERATURE SETPOINT (50°F, ADJ), THEN THE AHU SHALL START WITH THE OA AND RELIEF DAMPERS REMAINING CLOSED. COOLING COIL CONTROL VALVE SHALL BE LOCKED OUT. VAV TERMINAL UNITS SHALL GO TO OCCUPIED MODE TO PROVIDE HEATING WITH REHEAT COILS AS NECESSARY. THIS SEQUENCE SHALL CONTINUE UNTIL THE ART RISES TO 5°F (ADJ) ABOVE THE UNOCCUPIED HEATING TEMPERATURE SETPOINT.
- UNOCCUPIED COOLING: DURING UNOCCUPIED MODE IF THE ART OF THE AHU'S SERVICE AREA RISES ABOVE THE UNOCCUPIED COOLING TEMPERATURE SETPOINT (80°F, ADJ), THEN THE AHU SHALL START WITH THE OA AND RELIEF DAMPERS REMAINING CLOSED. VAV TERMINAL UNITS SHALL GO TO OCCUPIED MODE. AHU SHALL OPERATE IN COOLING MODE UNTIL THE ART DROPS TO 3°F (ADJ) BELOW THE UNOCCUPIED COOLING TEMPERATURE SETPOINT.
- COIL PROTECTION: THE AHU FANS SHALL SHUT OFF AND THE OUTDOOR AIR DAMPER CLOSE IF THE TEMPERATURE LEAVING THE HEATING COIL FALLS BELOW 40°F (ADJ) IN ORDER TO PROTECT THE CHILLED WATER COIL FROM FREEZING. THIS CONTROL SHALL BE HARDWIRED, NOT SOFTWARE DEPENDENT. STEAM CONTROL VALVE SHALL REMAIN UNDER CONTROL.
- EMERGENCY SHUTDOWN: IF THE SMOKE DETECTORS SENSE SMOKE OR A FIRE ALARM OCCURS, THE AHU FANS SHALL IMMEDIATELY SHUT OFF; THE OUTDOOR, RETURN AND RELIEF DAMPERS SHALL CLOSE. THIS SMOKE DETECTOR/FIRE ALARM SIGNAL AHU SHUTDOWN SHALL BE HARDWIRED, NOT SOFTWARE DEPENDENT.
- DIFFERENTIAL PRESSURE DROP ACROSS THE FILTERS SHALL BE MONITORED WITH AN ALARM GENERATED WHEN IT EXCEEDS A LIMIT, INDICATING THAT THE FILTER IS DIRTY.

AHU-1 CONTROL DIAGRAM
SCALE: NONE

HVAC CONTROLS LEGEND

ABBREVIATIONS

- ART = AVERAGE ROOM TEMPERATURE
- BEMS = BUILDING ENERGY MANAGEMENT SYSTEM
- AHU = AIR HANDLING UNIT
- S/S = START/STOP
- CWS = CHILLED WATER SUPPLY
- CWR = CHILLED WATER RETURN
- HWS = HEATING HOT WATER SUPPLY
- HWR = HEATING HOT WATER RETURN
- TEMP = TEMPERATURE
- ADJ = ADJUSTABLE PARAMETERS
- HX = HEAT EXCHANGER
- OA = OUTSIDE AIR
- RA = RETURN AIR
- TCC = TEMPERATURE CONTROL CONTRACTOR
- OAT = OUTDOOR AIR TEMPERATURE
- DAT = DISCHARGE AIR TEMPERATURE
- HAT = PREHEAT DISCHARGE AIR TEMP.
- RAT = RETURN AIR TEMPERATURE
- NO = NORMALLY OPEN
- NC = NORMALLY CLOSED
- AI = ANALOG INPUT POINT TO FMS
- AO = ANALOG OUTPUT POINT FROM FMS
- BI = BINARY INPUT POINT TO FMS
- BO = BINARY OUTPUT POINT FROM FMS
- OAT SPT
0 180
65 100

- DIFFERENTIAL PRESSURE SWITCH
- TEMPERATURE SENSOR
- FREEZE STAT (LOW TEMP. SWITCH)
- DUCT SMOKE DETECTOR
- CURRENT TRANSDUCER
- STATIC PRESSURE SENSOR
- WELL TEMPERATURE SENSOR
- PRESSURE SENSOR
- 2-WAY MODULATING CONTROL VALVE
- 3-WAY MODULATING CONTROL VALVE
- FILTER
- FAN OR PUMP
- AUTOMATIC MOTOR OPERATED DAMPER
- MOTOR STARTER
- VARIABLE FREQUENCY DRIVE (WITH INTERFACING POINTS AS SPECIFIED)
- WALL THERMOSTAT
- CHILLED WATER COOLING COIL
- HOT WATER COIL
- STEAM COIL
- 20# CONTROL AIR SUPPLY

BUILDING CHILLED WATER SYSTEM

SEQUENCE OF OPERATION

NOTE: REFER TO BUILDING CHILLED WATER FLOW/CONTROL DIAGRAM ON M-8.

- The project shall receive chilled water from the campus central chilled water plant. The chilled water pump will run whenever campus chilled water is available as commanded from the campus operator workstation and at least one building zone is in Occupied mode and calling for cooling. When the pump is off, the primary chilled water supply valve shall be closed.
- Variable speed building pump and pressure control. The chilled water pump shall be equipped with a variable speed drive. The DDC system initially enables the chilled water pump to be started (operator selectable). The pump speed is controlled to maintain the differential pressure setpoint of 15 psi in the Penthouse Mechanical Room. Provide a 2-way normally closed chilled water valve.
- Temperature Control: The building chilled water control loop will modulate the N.C. primary chilled water control valve to maintain the building chilled water return temperature setpoint. If the chilled water supply temperature on the discharge of the system pump rises above the maximum supply water temperature setpoint the high limit DDC control loop will override the normal building chilled water control loop. And the primary chilled water control valve will open to hold the supply water temperature below the maximum setpoint. The building chilled water control and maximum limit setpoints are fully adjustable from the BEMS workstation in the Service Building or through the local DDC controller. A temperature sensor located in the outdoor air will allow for automatic reset of the chilled water setpoints as required and defined by the user.
- The chilled water bypass valve is manually controlled by the building operators through the DDC system.
- Emergency Freeze Protection Command: A global graphic command for emergency freeze protection will enable the chilled water system pumps to run. The command overrides any other programming the BEMS System.
- Primary building control valve: 150 psi closed-off; operate with 100 psi differential pressure; rated for 250 psi; sized for building chilled water flow.

FREEZER ROOM EXHAUST FAN EF-3

SEQUENCE OF OPERATION

- PROVIDE LOCAL THERMOSTAT TO CONTROL FAN OPERATION.
- PROVIDE REMOTE MONITORING FROM BEMS BY CURRENT SENSOR.

HOT WATER PUMPS SEQUENCE OF OPERATION

NOTE: REFER TO HOT WATER FLOW/CONTROL DIAGRAM ON M-8.

- A HOT WATER PUMP SHALL OPERATE WHENEVER THE BUILDING IS IN OCCUPIED MODE OR THERE IS A CALL FOR HEATING. A VAV TERMINAL UNIT IN OVERRIDE MODE NEEDING TO OPEN ITS REHEAT CONTROL VALVE WOULD CONSTITUTE A CALL FOR HEATING.
- START THE BACKUP PUMP UPON FAILURE OF PRIMARY PUMP, AS DETERMINED FROM CURRENT SENSOR.

MISCELLANEOUS CONTROLS NOTES

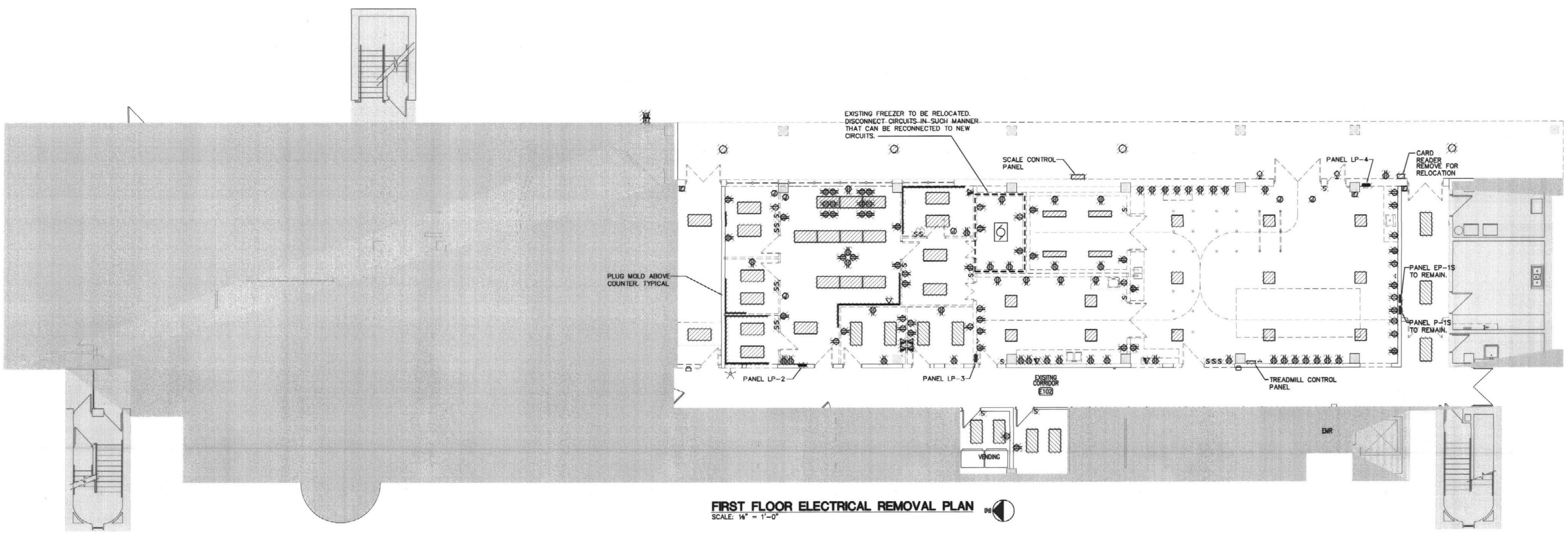
- See specifications for I/O Summary Tables. Provide all points and functionality specified.
- Provide lighting control relays and points in BEMS for remote control of exterior lighting. Coordinate with installation of exterior lighting.
- Provide new building temperature control air compressor to replace the existing. The new compressor shall be sized for existing building systems plus new control components. Install pneumatic piping, components, etc. as required for system operation.
- LABORATORY SYSTEM INSTALLATION AND SEQUENCE: Provide all control and power wiring including installation of laboratory power supplies (if wall mounted) and fume hood monitors per manufacturers requirements. The fume hood air valves shall be factory calibrated to provide a constant air flow to or from the conditioned space. Provide all system points defined by I/O Summary Tables.
- EMERGENCY GENERATOR INTERFACE: Provide control conduit, wiring and terminations to monitor the existing emergency generator "run" and "trouble" status from the BEMS workstation located in the Peterson Service Building.
- FIRE ALARM INTERFACE: Provide fire alarm monitoring points, for informational purposes only.

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SHEET	E-1
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FIRST FLOOR ELECTRICAL REMOVAL PLAN
SCALE: 1/4" = 1'-0"

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
○	CEILING OUTLET AND INCANDESCENT, COMPACT FLUORESCENT LIGHTING FIXTURE AS SCHEDULED.
○	WALL OUTLET AND INCANDESCENT, COMPACT FLUORESCENT LIGHTING FIXTURE AS SCHEDULED.
□	CEILING OUTLET AND FLUORESCENT LIGHTING FIXTURE AS SCHEDULED.
□	CEILING OUTLET AND FLUORESCENT LIGHTING FIXTURE ON EMERGENCY POWER
⊕	WALL OUTLET AND EXIT LIGHT FIXTURE AS SCHEDULED.
⊕	SYMBOL INDICATES FIXTURE TYPE WHEN SHOWN ON LIGHTING PLANS ADJACENT TO FIXTURE.
⊕	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 16 INCHES A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE. QFI INDICATES GROUND FAULT INTERRUPTER.
⊕	WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT HORIZONTALLY 6 INCHES ABOVE COUNTER OR ABOVE COUNTER BACKSPASH TO BOTTOM, UNLESS NOTED OTHERWISE.
⊕	WALL OUTLET WITH 20A, 125V DOUBLE DUPLEX (QUADRAPLEX) RECEPTACLE. MOUNT 16 INCHES A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE.
⊕	TELEPHONE/DATA OUTLET IN WALL. MOUNT 16 INCHES A.F.F. TO BOTTOM UNLESS NOTED OTHERWISE. PROVIDE 1" CONDUIT FROM EACH OUTLET TO CABLE TRAY. W SUBSCRIPT INDICATES WALL MOUNTED OUTLET 48" A.F.F. TO TOP.
S	SINGLE POLE 20A SWITCH. MOUNT 44" A.F.F. TO TOP, UNLESS NOTED OTHERWISE.
S3	THREE WAY 20A SWITCH. MOUNT 44" A.F.F. TO TOP, UNLESS NOTED OTHERWISE.
⊕	CEILING MOUNTED JUNCTION BOX.
⊕	LIGHTING DIMMER SWITCH. MOUNT 44" A.F.F. TO TOP, UNLESS NOTED OTHERWISE.
F	FIRE ALARM MANUAL BREAK STATION. MOUNT 44" A.F.F. TO TOP, UNLESS NOTED OTHERWISE.
F S	SMOKE DETECTOR. CEILING MOUNT.
F ⊕	FIRE ALARM VISUAL UNIT. WALL MOUNT AT 80" A.F.F. TO BOTTOM.
F ⊕	FIRE ALARM AUDIO/VISUAL UNIT. MOUNT 80" A.F.F. TO BOTTOM.
RA	SURFACE MOUNTED TWO COMPARTMENT RACEWAY.
em	INDICATES DEVICE CONNECT TO EMERGENCY CIRCUIT.
⊕	WALL OUTLET WITH SPECIAL RECEPTACLE AS NOTED MOUNT 16" A.F.F. UNLESS NOTED OTHERWISE.
⊕	SMOKE DETECTOR, DUCT TYPE.
—UT—	UNDERGROUND TELECOMMUNICATION DUCT BANK
—UE—	UNDERGROUND ELECTRIC
⊕	COMBINATION MAGNETIC MOTOR CONTROLLER TO SUIT MOTOR. MOUNT 4"-6" A.F.F. TO CENTER, UNLESS NOTED OTHERWISE.
⊕	MANUAL MOTOR CONTROLLER TO SUIT MOTOR.
VFD	VARIABLE FREQUENCY DRIVE
⊕	MOTOR STARTER TO SUIT MOTOR.
⊕	CONTROL MODULE

GENERAL ELECTRICAL REMOVAL NOTES:

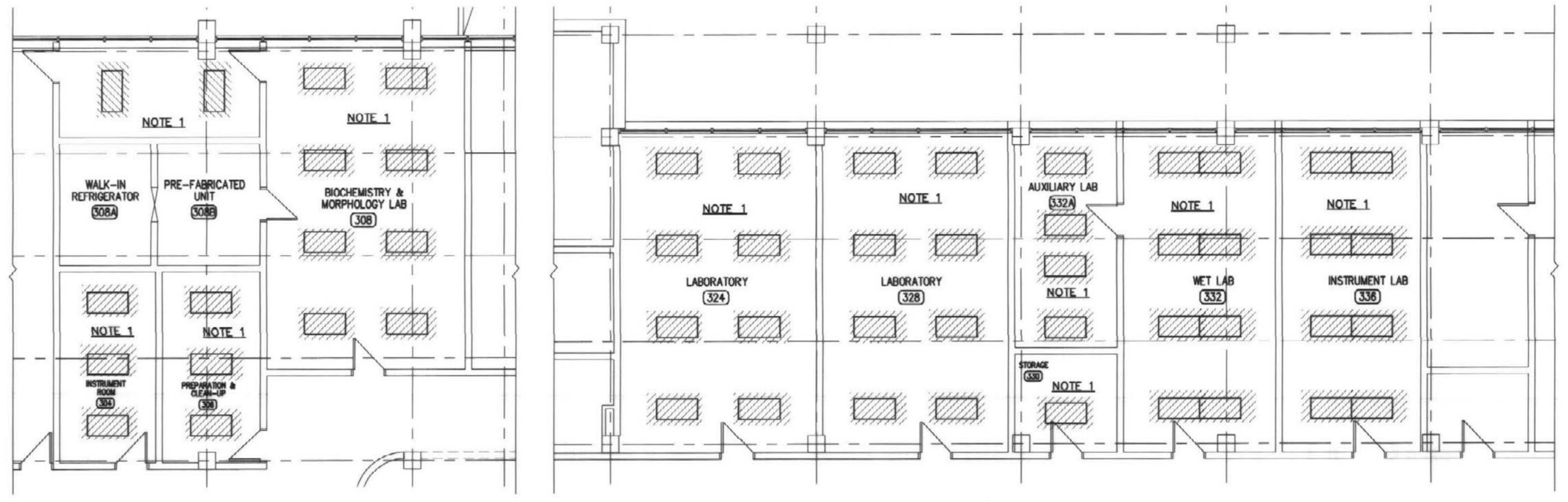
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE BUILDING AND SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS. THESE REMOVAL DRAWINGS SHALL SERVE TO AID THE CONTRACTOR IN HIS EVALUATION OF THE EXTENT OF DEMOLITION, BUT SHALL NOT BE HELD TO BE ALL INCLUSIVE.
- FOR FURTHER INFORMATION WITH REGARD TO THE EXTENT OF DEMOLITION, SEE THE CONSTRUCTION PLANS WHICH ILLUSTRATE THE ADJACENT NEW CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED FOR THE INSTALLATION OF NEW WORK, WHETHER OR NOT IT IS SPECIFICALLY INDICATED OR NOTED IN THESE DOCUMENTS.
- ALL EQUIPMENT INDICATED AS CROSS HATCHED OR AS NOTED SHALL BE DISCONNECTED AND REMOVED UNLESS NOTED OTHERWISE.
- ALL EQUIPMENT REMOVED FOR RELOCATION SHALL BE REMOVED IN SUCH A MANNER THAT REUSE IS POSSIBLE.
- ALL CONDUIT RUNS TO REMOVED EQUIPMENT SHALL HAVE ALL WIRING REMOVED UNLESS WIRING IS REQUIRED TO SERVE EXISTING EQUIPMENT TO REMAIN.
- REMOVAL OF EMPTY CONCEALED CONDUIT WILL BE REQUIRED ONLY IF SUCH CONDUIT INTERFERES WITH NEW CONSTRUCTION.
- IF PORTIONS OF CIRCUITS SERVING EQUIPMENT TO REMAIN MUST BE RELOCATED OR REMOVED DUE TO OTHER DEMOLITION OR DUE TO INTERFERENCE WITH NEW EQUIPMENT INSTALLATION, THE CIRCUITS SHALL BE MODIFIED IN A MANNER WHICH SHALL ENSURE PROPER OPERATION OF THE EQUIPMENT AFTER CONSTRUCTION IS COMPLETE. USE SAME GAUGE AND TYPE OF CONDUCTOR AND SAME CONDUIT SIZE AS EXISTING TO MAKE ALL REQUIRED CIRCUIT MODIFICATIONS.
- IF WALLS, CEILINGS, FLOORS, OR EQUIPMENT ARE REMOVED, OR OTHER DEMOLITION OCCURS, WHICH EXPOSES CIRCUITS SERVING EQUIPMENT TO REMAIN, THE CIRCUITS SHALL BE RELOCATED OR MODIFIED IN SUCH A MANNER WHICH SHALL ENSURE THE CONTINUED OPERATION OF THE CIRCUIT. EXISTING CONDUITS EXPOSED DURING DEMOLITION WHICH REMAIN TO SERVE EQUIPMENT SHALL BE RE-SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS FOR RACEWAY INSTALLATION IN THE SPECIFICATIONS.
- PROVIDE BLANK PLATE FOR ALL WALL OUTLETS NOT USED.

NOTES:

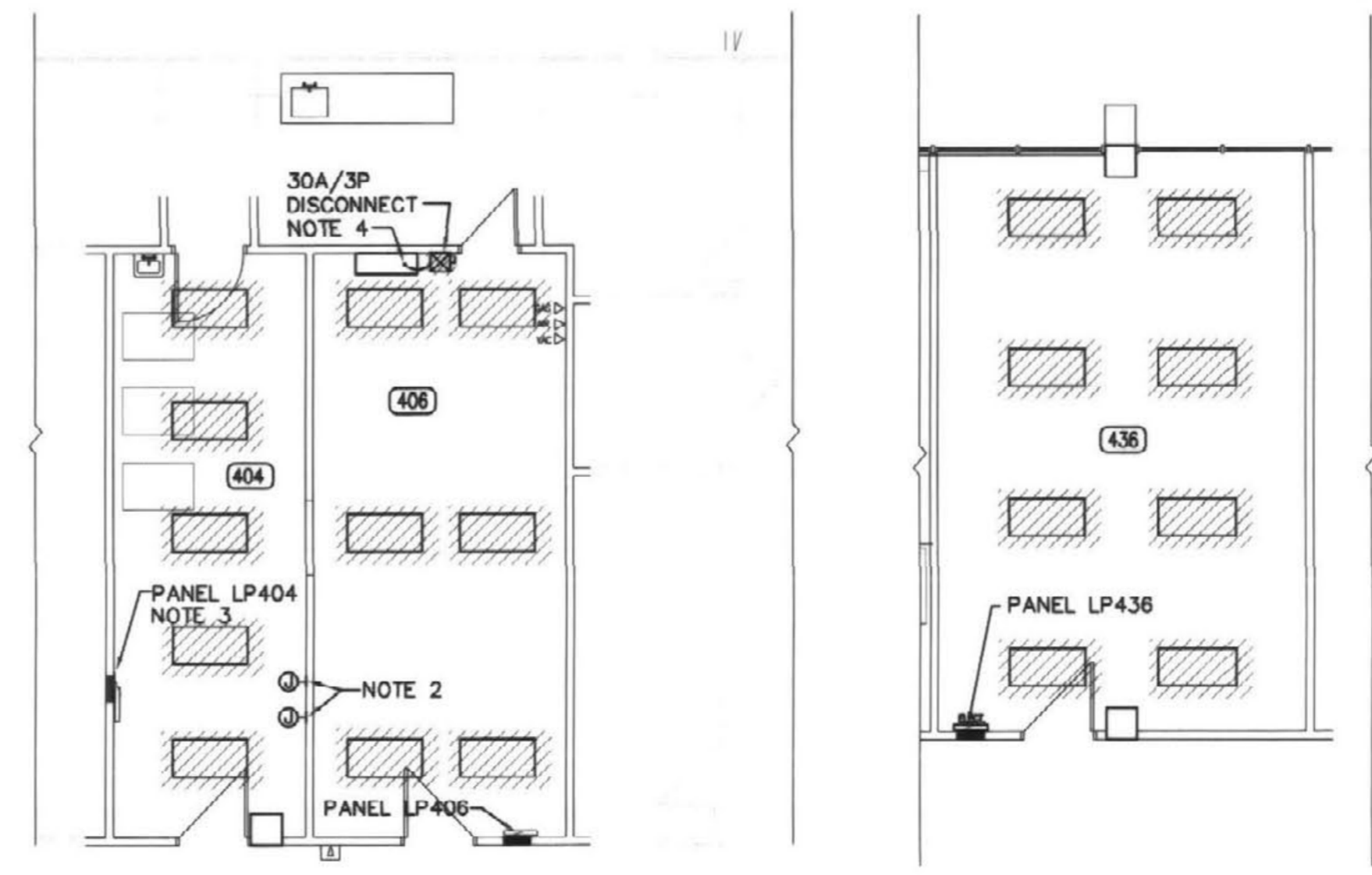
- REMOVE LIGHTING FIXTURES IN THIS ROOM AS REQUIRED TO FACILITATE WORK ABOVE CEILING. REMOVE AND STORE FIXTURES IN SUCH MANNER THAT REINSTALLATION IS POSSIBLE. DISCONNECT FIXTURES IN SUCH MANNER THAT RECONNECTION TO EXISTING CIRCUITS IS POSSIBLE.
- DISCONNECT CIRCUIT TO ALLOW TO REMOVE OVEN. CIRCUITS ORIGINATE FROM PANEL LP404.
- DISCONNECT CIRCUIT SERVING OVENS FROM 30A/3P BREAKERS. LEAVE BREAKERS AS SPARES.
- DISCONNECT CIRCUIT TO ALLOW TO REMOVE DRYER. REMOVE 30A/3P DISCONNECT SWITCH. CIRCUIT ORIGINATE AT PANEL LP406. REMOVE CIRCUIT FROM 30A/3P BREAKER IN PANEL LP406. LEAVE BREAKER AS SPARE.

GENERAL NOTES:

AA. REFER TO SHEET E-4 FOR REMOVAL ONE-LINE DIAGRAM.

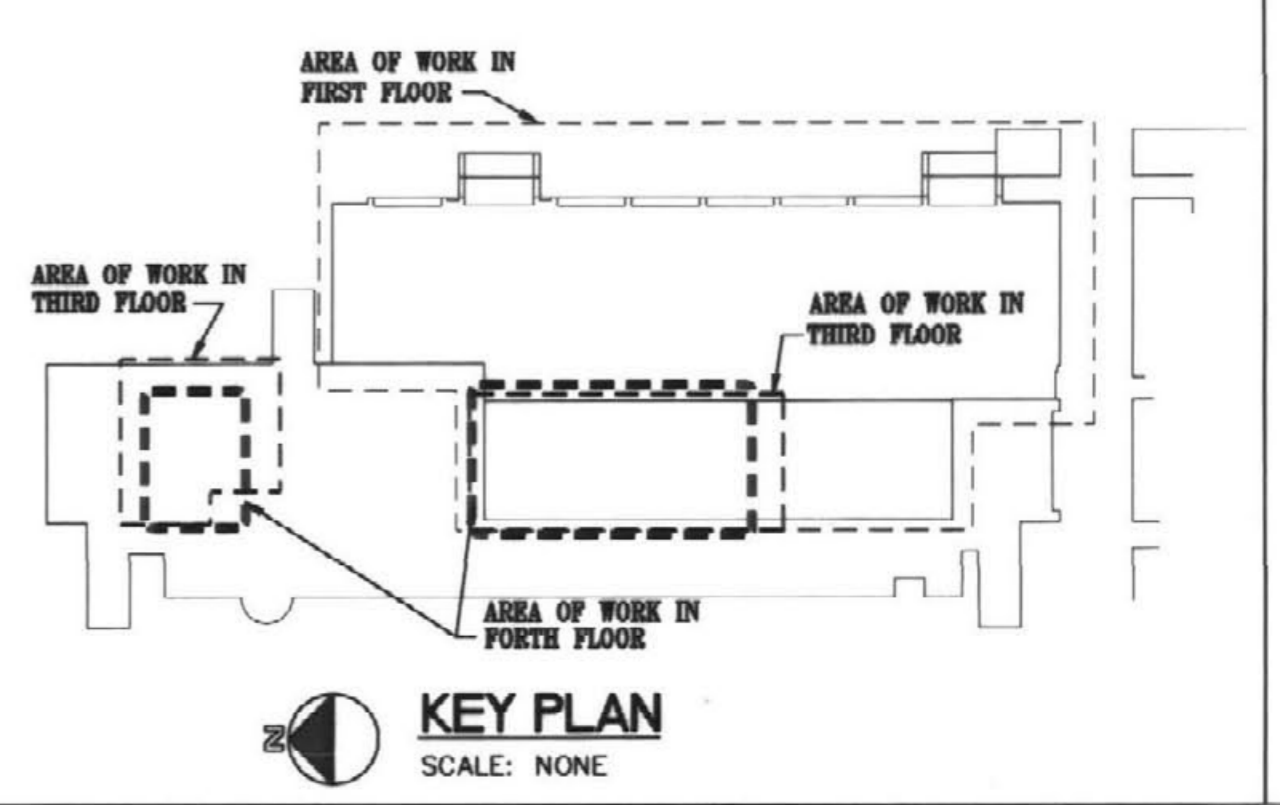


PARTIAL THIRD FLOOR ELECTRICAL REMOVAL PLANS
SCALE: 1/4" = 1'-0"

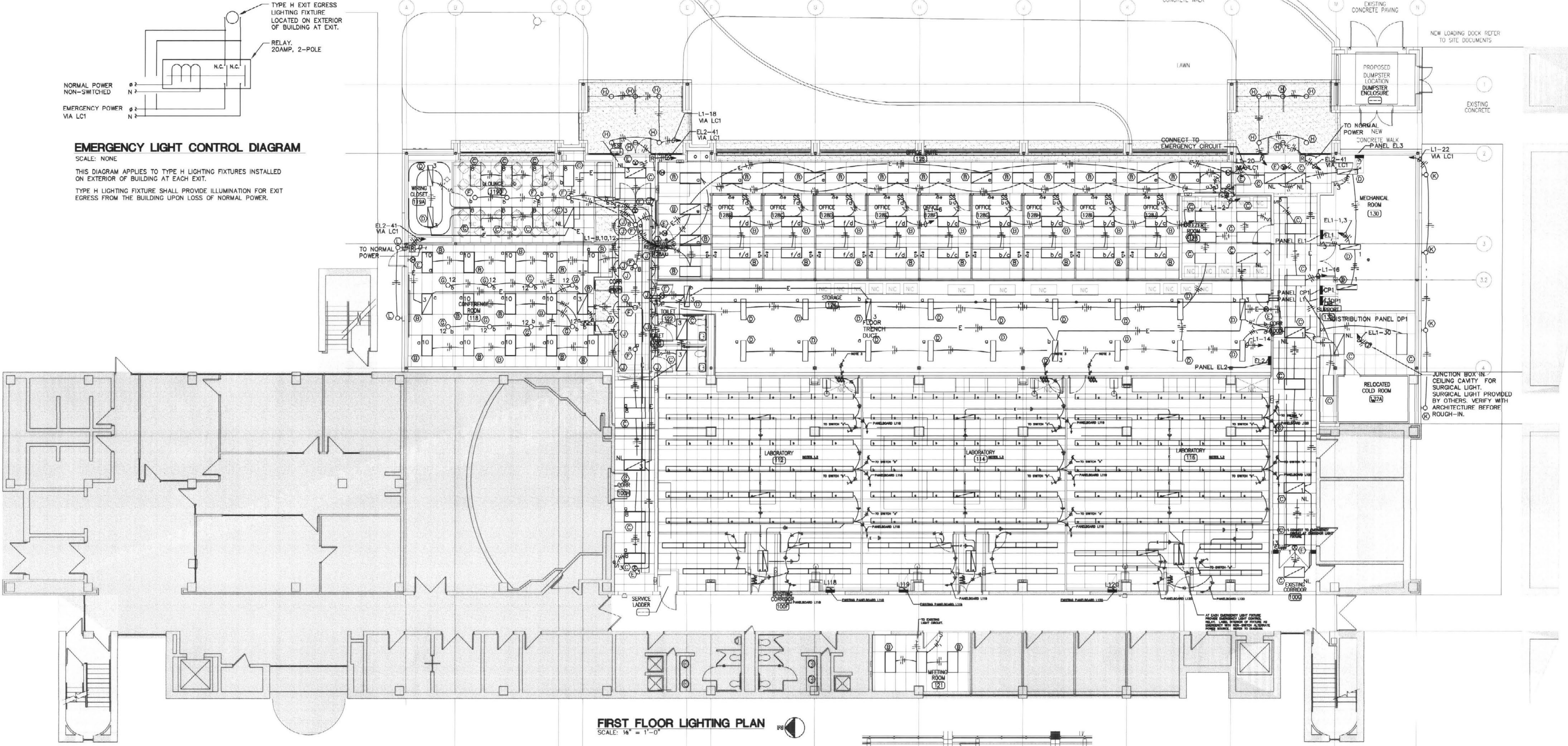


PARTIAL FOURTH FLOOR ELECTRICAL REMOVAL PLANS
SCALE: 1/4" = 1'-0"

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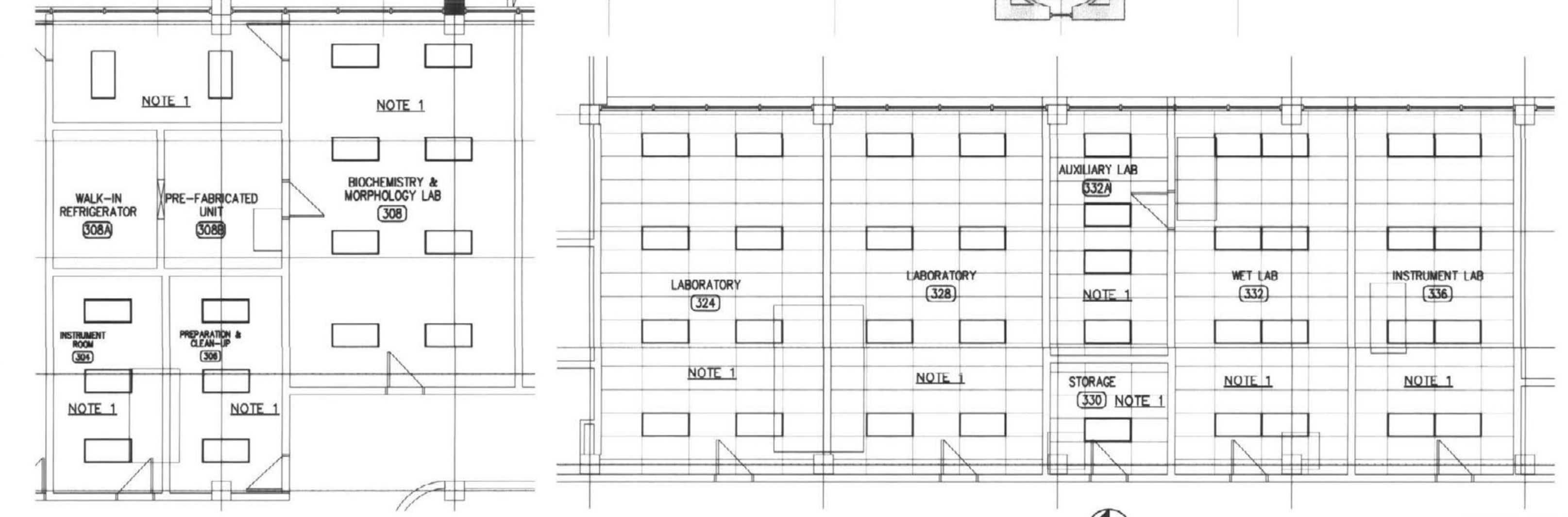


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Consulting Engineers



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

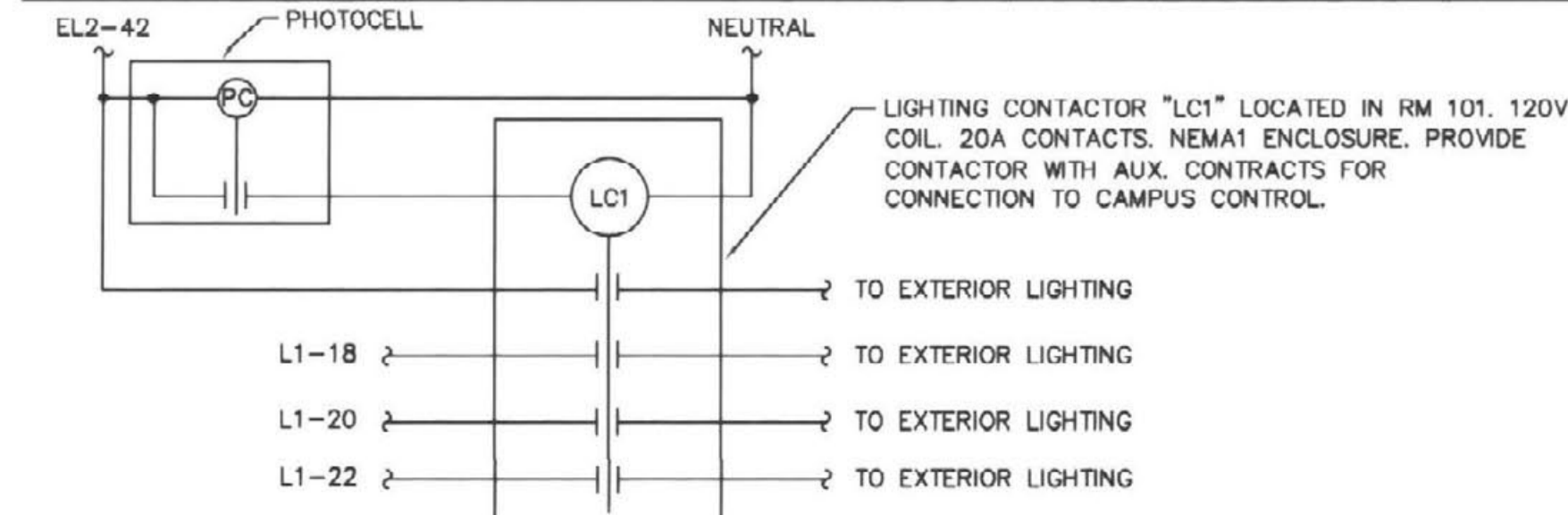
SYM	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP			FIXTURE VOLTAGE	ZONAL CAVITY METHOD RCR = 1			SPACING TO MOUNTING HEIGHT RATIO	MOUNTING	
				TYPE	NO.	WATTS		EFF. REFLECTANCE	CEILING	WALL			FLOOR
A	1 1/4" 2-LAMP PARABOLIC TROFFER WITH CLARE CONTROL, CONTOURED HOUSING, 3" PARABOLIC COMPOUND LOUVER WITH 16 CELLS WITH LOW IRIDESCENT ANODIZED DIFFUSE SILVER, ELECTRONIC BALLAST (<10%THD), INTERNAL FAST BLOW FUSE.	LITHONIA	PM3GB23216LD120GE10GLR	F32T8	2	32	120	80	50	20	.80	1.2	RECESS
B	2 1/4" 4-LAMP PARABOLIC TROFFER WITH CLARE CONTROL, CONTOURED HOUSING, 3" PARABOLIC COMPOUND LOUVER WITH 27 CELLS WITH LOW IRIDESCENT ANODIZED DIFFUSE SILVER, ELECTRONIC BALLAST (<10%THD), INTERNAL FAST BLOW FUSE.	LITHONIA	2PMOGB33227LD120GE10GLR	F32T8	4	32	120	80	50	20	.80	1.2	RECESS
C	2 1/4" 2-LAMP SPECIFICATION GRADE STATIC TROFFER WITH FLUSH WHITE ALUMINUM DOOR, PARABOLIC 0.125" THICK #12 PATTERN ACRYLIC PRISMATIC LENS, ELECTRONIC BALLAST (<10%THD), FLUORESCENT LAMPS AND INTERNAL FUSE.	LITHONIA	2SPG232FVA12120GE10GLR	F32T8	2	32	120	80	50	20	0.65	1.2	RECESS
D	4" 2-LAMP INDUSTRIAL FIXTURE, STEEL HOUSING, ELECTRONIC BALLAST (<10%THD) INTERNAL FAST-BLOW FUSE.	LITHONIA	AF232120GE10GLR	F32T8	2	32	120	80	50	20	.90	1.4	SURFACE
E	SINGLE FACE LED EXIT SIGN WITH DIECAST ALUMINUM WHITE HOUSING, RED STENCIL LETTERS, DIFFUSED LENS, KNOCKOUT ARROWS, UNIVERSAL MOUNTING.	LITHONIA	LESWR120	LED	-	-	120	-	-	-	-	-	CEILING
F	8" DIAMETER OPEN DOWN LIGHT WITH BLACK MICROGROOVE REFLECTOR WITH BALLAST (<10%THD), HORIZONTAL COMPACT FLUORESCENT LAMP AND INTERNAL FUSE.	LITHONIA	AF2/28TT6MB120GE10GLR	280TT	2	26	120	-	-	-	-	-	RECESS
G	INCANDESCENT DOWN LIGHT WITH CLEAR ALZAK REFLECTOR, 6" DIA X 9" HIGH HOUSING.	LITHONIA	A6AR	A19	1	100	120	-	-	-	-	-	RECESS
H	FLUORESCENT DOWN LIGHT WITH 2-LAMP AND PRISMATIC LENS, U.L. LISTED FOR WET LOCATION, 7" DIA X 6 1/2" H HOUSING, ELECTRONIC BALLAST.	LITHONIA	LG2/26D17R713GE10	PL26	2	26	120	-	-	-	-	-	RECESSED
J	STAGGERED STRIP FIXTURE.	LITHONIA	SS232120	F32T8	2	32	120	80	50	20	.8	1.2	SURFACE
K	14" SQUARE X 8" D WALL PACK WITH SHOCK RESISTANT PRISMATIC GLASS REFLECTOR, HIGH POWER FACTOR LOW TEMPERATURE (-20°F) BALLAST, AND INTERNAL FUSE.	LITHONIA	TWH100M120	METAL HALIDE	1	100	120	-	-	-	-	-	WALL 8" A.F.F TO BOTTOM
L	CAST MICRO WALLPAK, WITH POLYCARBONATE REFLECTOR AND TWO FLUORESCENT LAMPS.	LITHONIA	TWL26D1120SF	280TT	2	26	120	-	-	-	-	-	WALL 8"-0" A.F.F BOTTOM



PARTIAL THIRD FLOOR LIGHTING PLANS
SCALE: 1/8" = 1'-0"

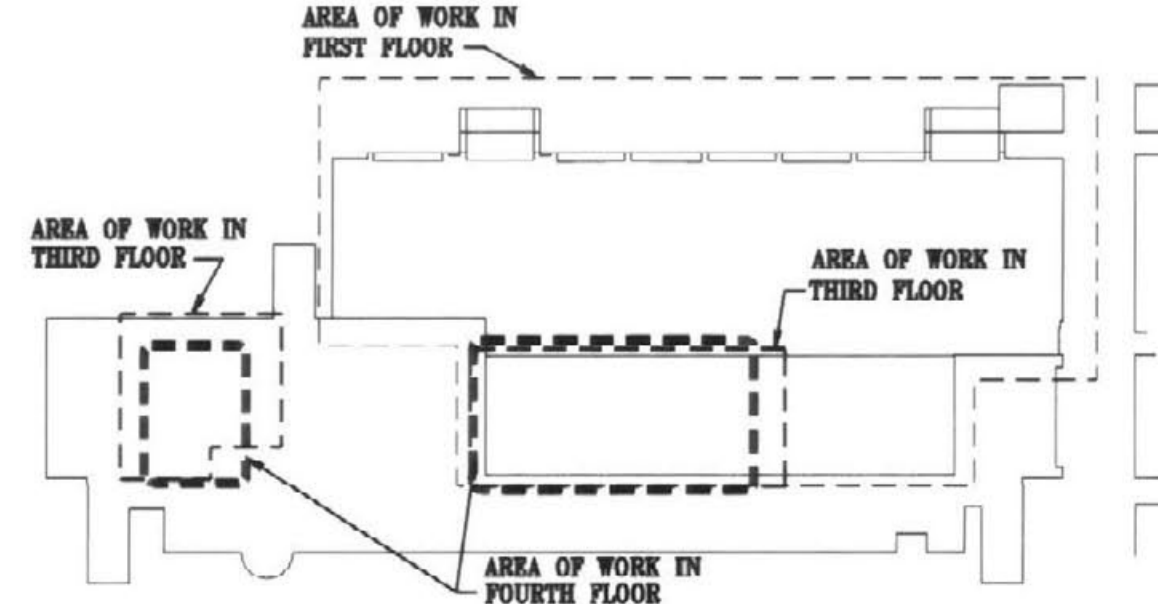


PARTIAL FOURTH FLOOR LIGHTING PLANS
SCALE: 1/8" = 1'-0"



LIGHTING CONTACTOR 'LC1' WIRING DIAGRAM
SCALE: NONE

- NOTES:**
- INSTALL EXISTING LIGHTING FIXTURES AND CONNECT TO EXISTING LIGHTING CIRCUIT. UTILIZE EXISTING SWITCHING ARRANGEMENT. CLEAN LIGHTING FIXTURES PRIOR TO REINSTALLATION.
 - TO EXISTING PANEL LP436, PROVIDE 20A/1P BREAKER AND UTILIZE EXISTING SPACE.
 - CONNECT TO UNSWITCH EMERGENCY CIRCUIT ON THIS FLOOR.
 - TO EXISTING PANEL LP406, PROVIDE 20A/1P BREAKER AND UTILIZE EXISTING SPACE.
 - TO EXISTING PANEL LP404, PROVIDE 20A/1P BREAKER AND UTILIZE EXISTING SPACE.

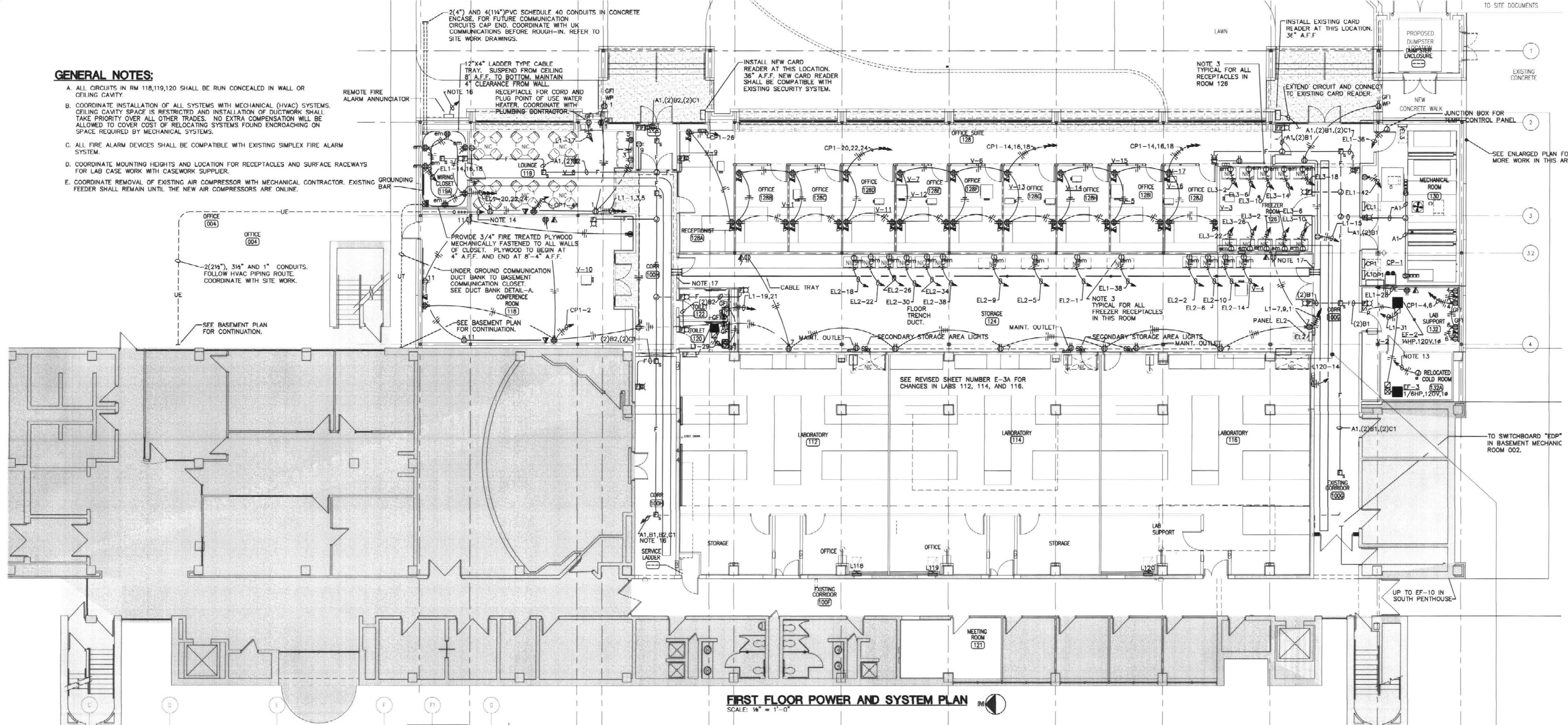


KEY PLAN
SCALE: NONE

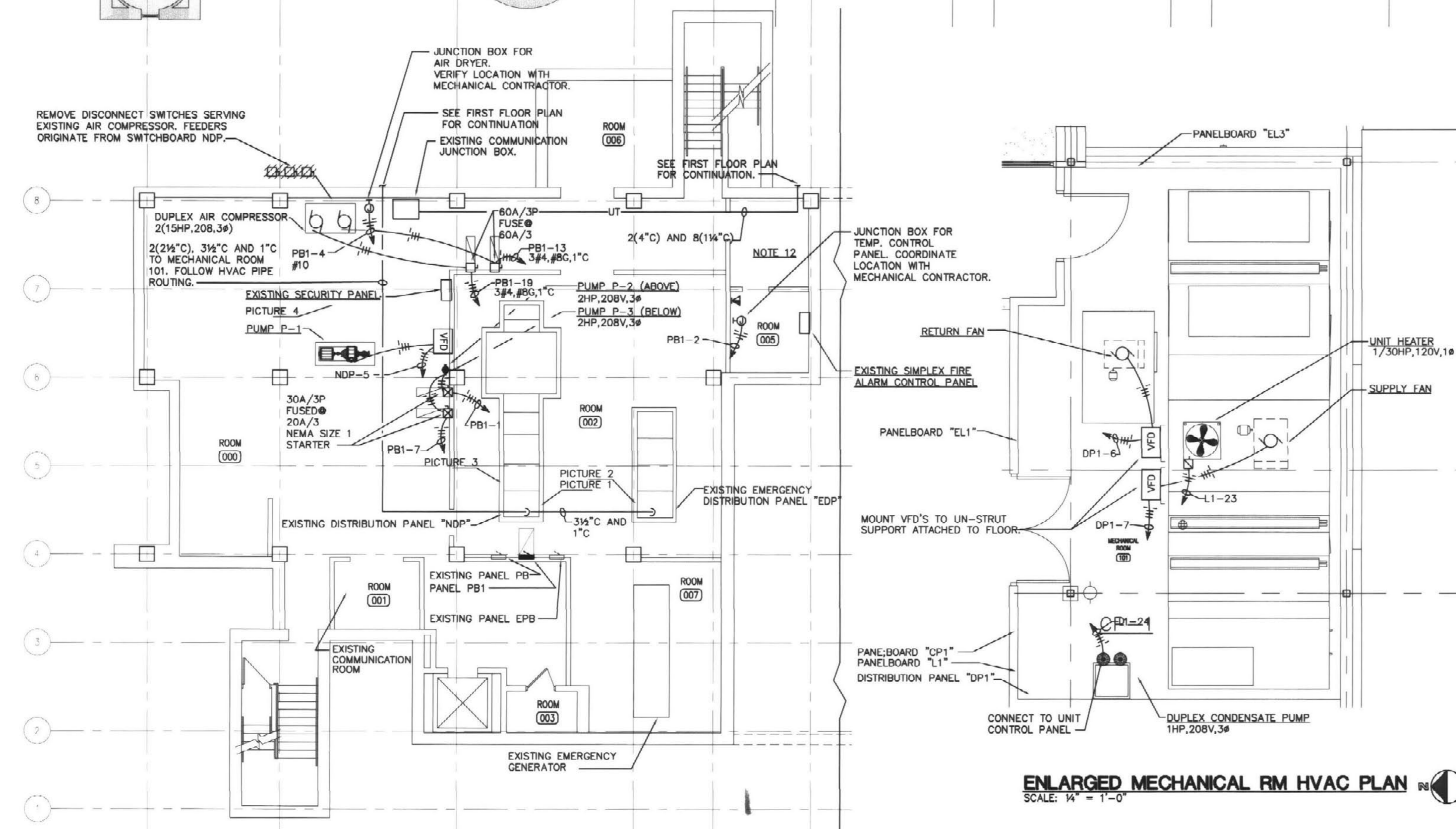
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GENERAL NOTES:

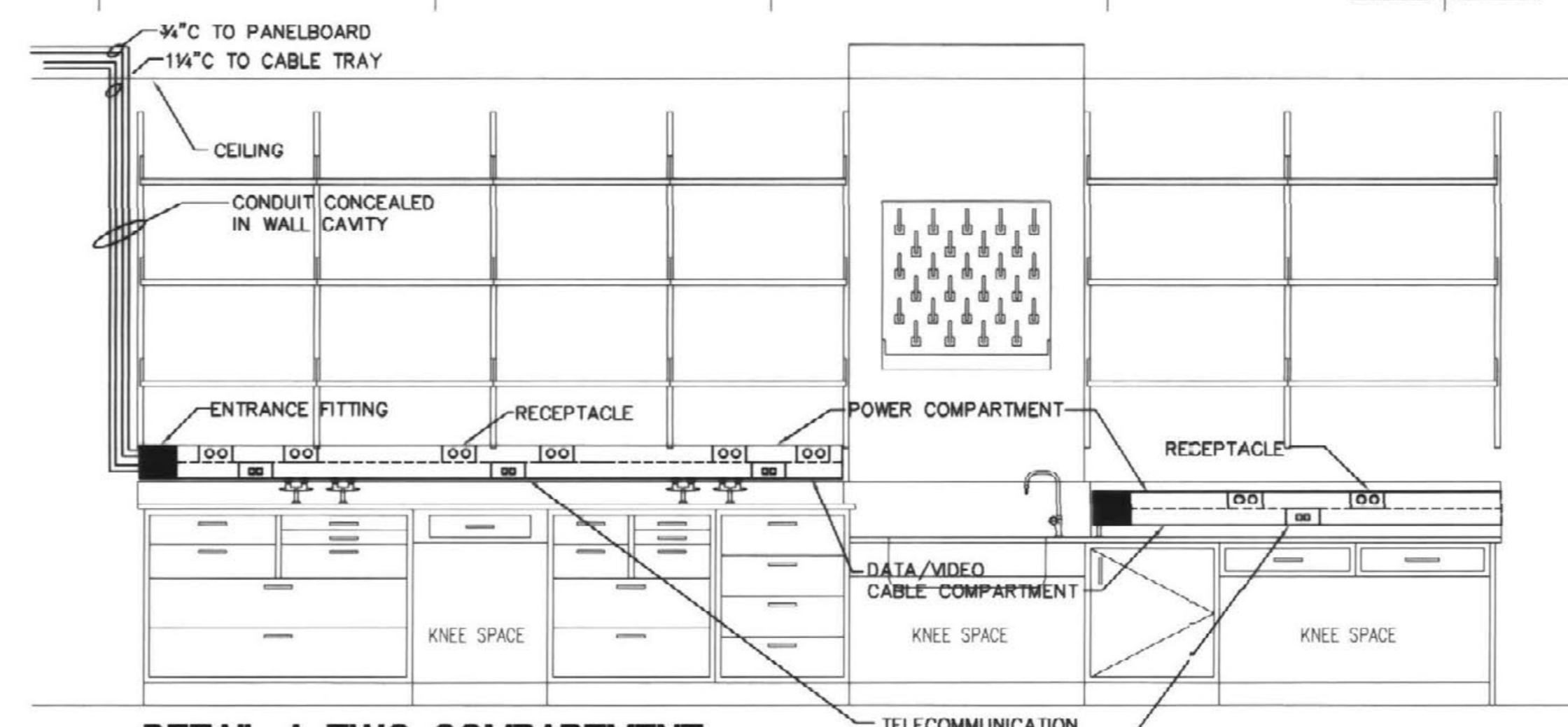
- A. ALL CIRCUITS IN RM 118,119,120 SHALL BE RUN CONCEALED IN WALL OR CEILING CAVITY.
- B. COORDINATE INSTALLATION OF ALL SYSTEMS WITH MECHANICAL (HVAC) SYSTEMS. CEILING CAVITY SPACE IS RESTRICTED AND INSTALLATION OF DUCTWORK SHALL TAKE PRIORITY OVER ALL OTHER TRADES. NO EXTRA COMPENSATION WILL BE ALLOWED TO COVER COST OF RELOCATING SYSTEMS FOUND ENCRDACHING ON SPACE REQUIRED BY MECHANICAL SYSTEMS.
- C. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING SIMPLEX FIRE ALARM SYSTEM.
- D. COORDINATE MOUNTING HEIGHTS AND LOCATION FOR RECEPTACLES AND SURFACE RACEWAYS FOR LAB CASE. WORK WITH CASEWORK SUPPLIER.
- E. COORDINATE REMOVAL OF EXISTING AIR COMPRESSOR WITH MECHANICAL CONTRACTOR. EXISTING FEEDER SHALL REMAIN UNTIL THE NEW AIR COMPRESSORS ARE ONLINE.



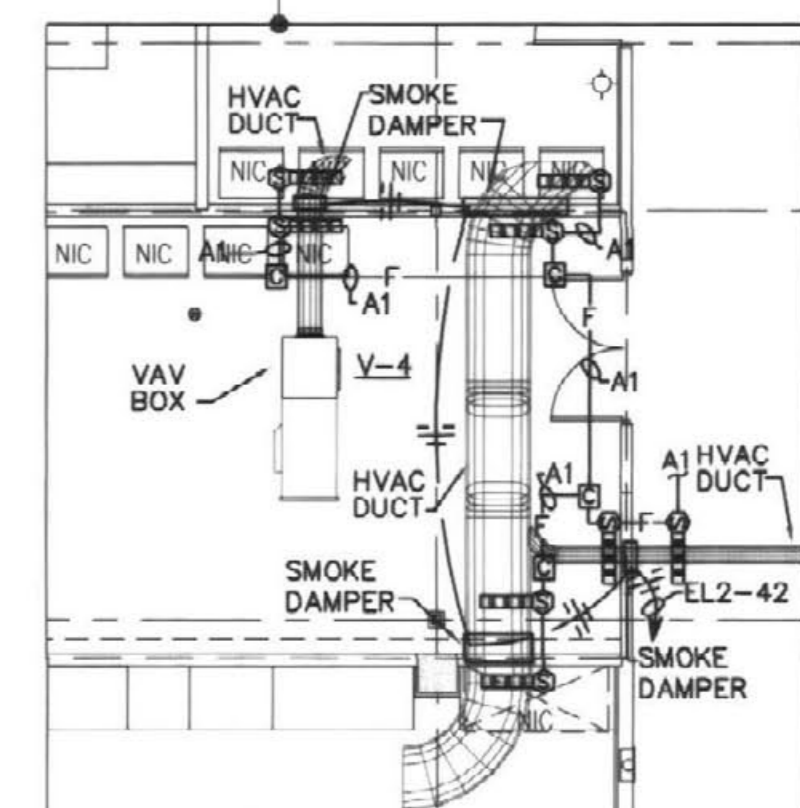
FIRST FLOOR POWER AND SYSTEM PLAN
SCALE: 1/4" = 1'-0"



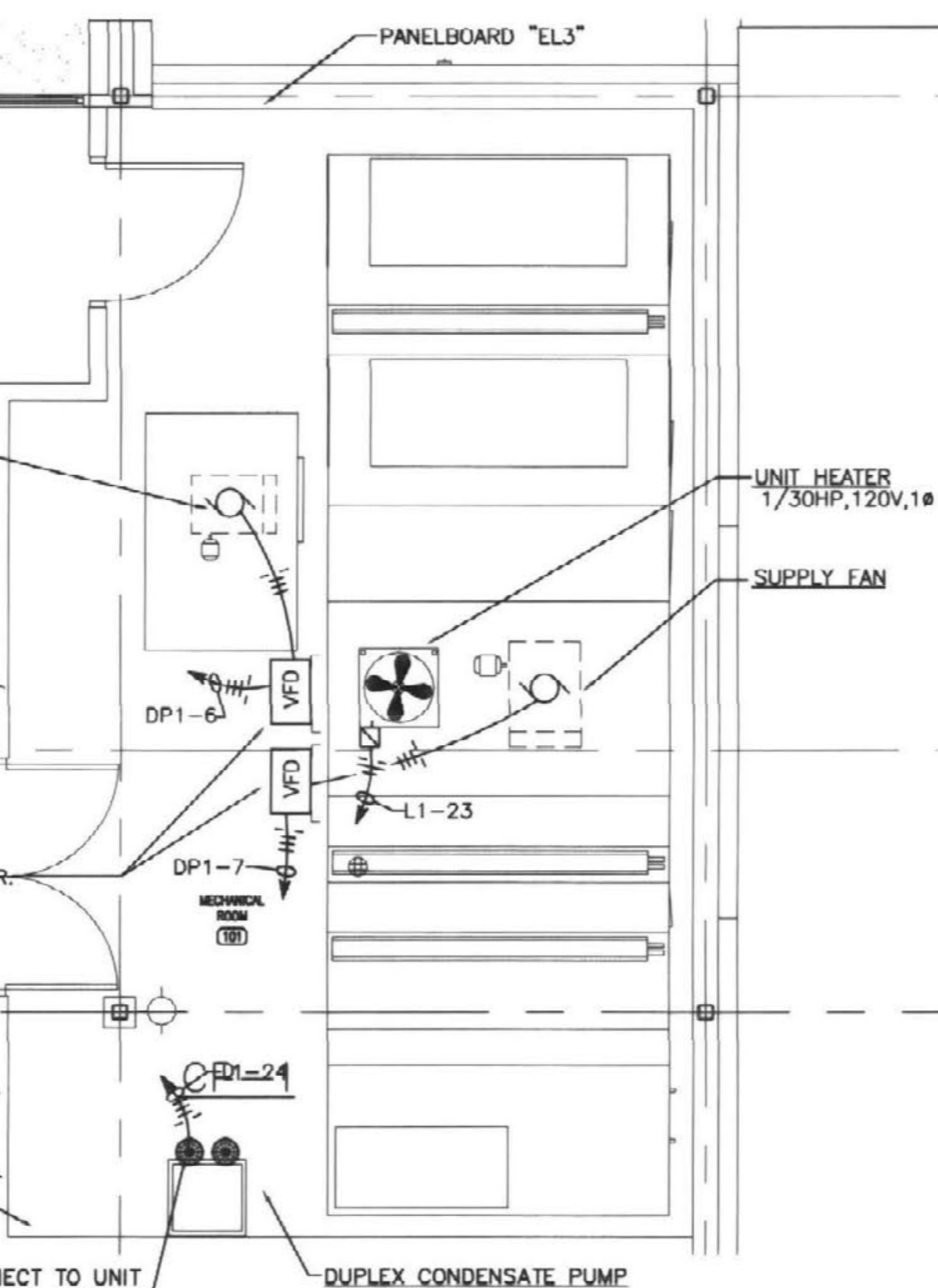
BASEMENT ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



DETAIL A-TWO COMPARTMENT SURFACE RACEWAY FOR WALL BENCH
SCALE: NONE
REFER TO ELEVATION 3 ON SHEET L3 FOR SURFACE RACEWAY MOUNTING HEIGHT.



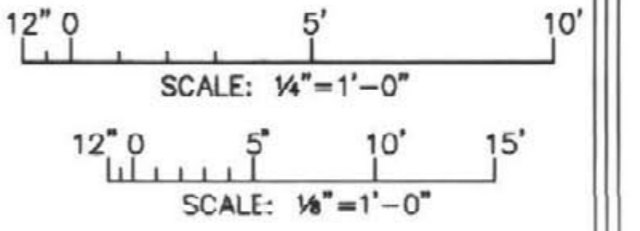
PARTIAL ROOM 124 SMOKE DAMPERS PLAN
SCALE: 1/4" = 1'-0"



ENLARGED MECHANICAL RM HVAC PLAN
SCALE: 1/4" = 1'-0"

NOTES:

- 1. NOT USED
- 2. NOT USED
- 3. NOT USED
- 4. NOT USED
- 5. NOT USED
- 6. NOT USED
- 7. NOT USED
- 8. NOT USED
- 9. NOT USED
- 10. NOT USED
- 11. TO EXISTING PANEL PB, PROVIDE 20A/3P BREAKER AND UTILIZE EXISTING SPACE.
- 12. REMOVE AND REINSTALL LAY-IN CEILING AND LIGHT FIXTURES IN THIS ROOM TO FACILITATE WORK ABOVE ABOVE CEILING.
- 13. TO PANEL EL3, CONTRACTOR SHALL FIELD VERIFY ELECTRICAL REQUIREMENTS FOR THE RELOCATED WALK IN FREEZER. PROVIDE ALL WIRING AND CONDUIT.
- 14. 2(2 1/2\"/>



KEY PLAN
SCALE: NONE

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RECORD DRAWINGS JUNE 18, 2003

Sherman, Carter, Barnhart, PSC
PARTNERS IN ARCHITECTURE

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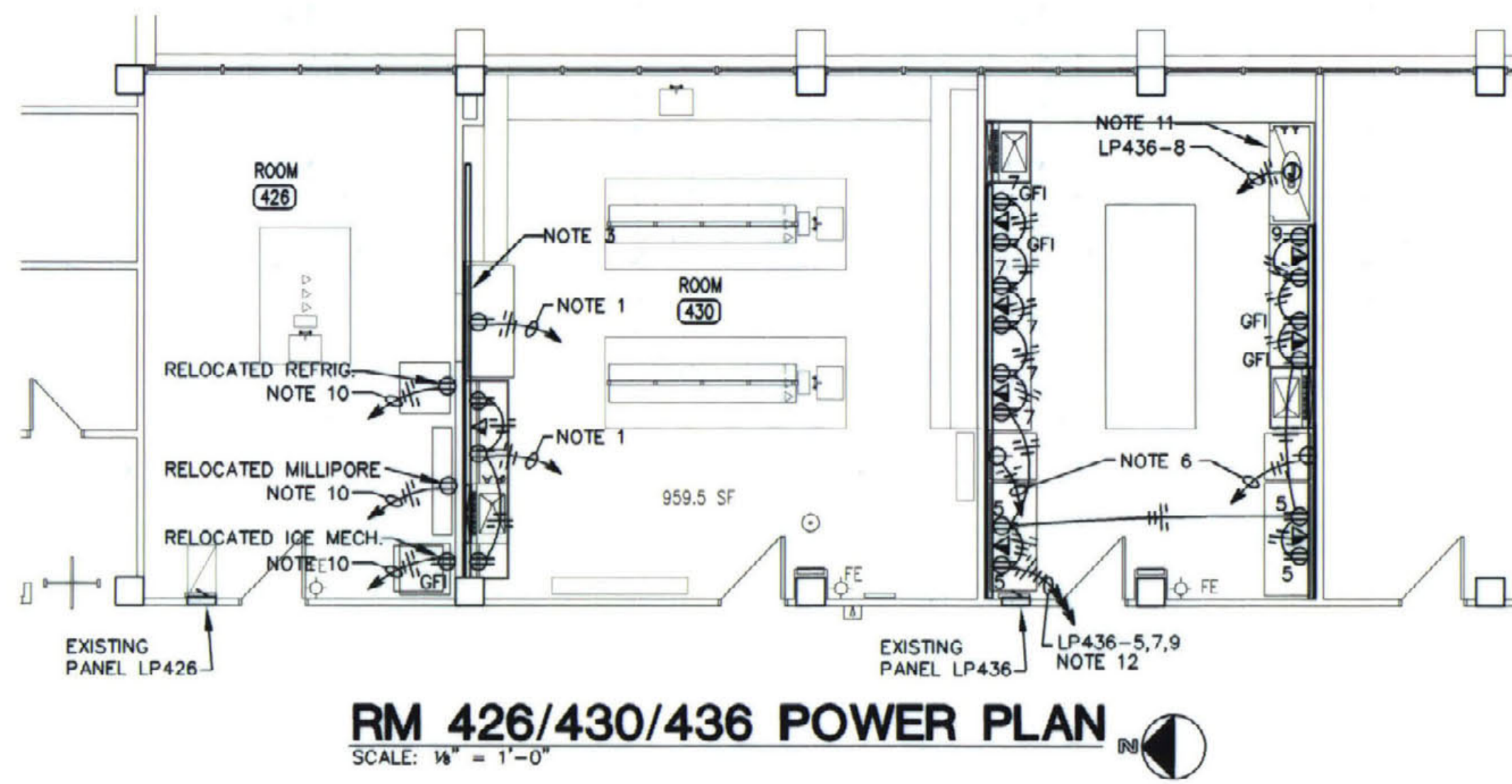
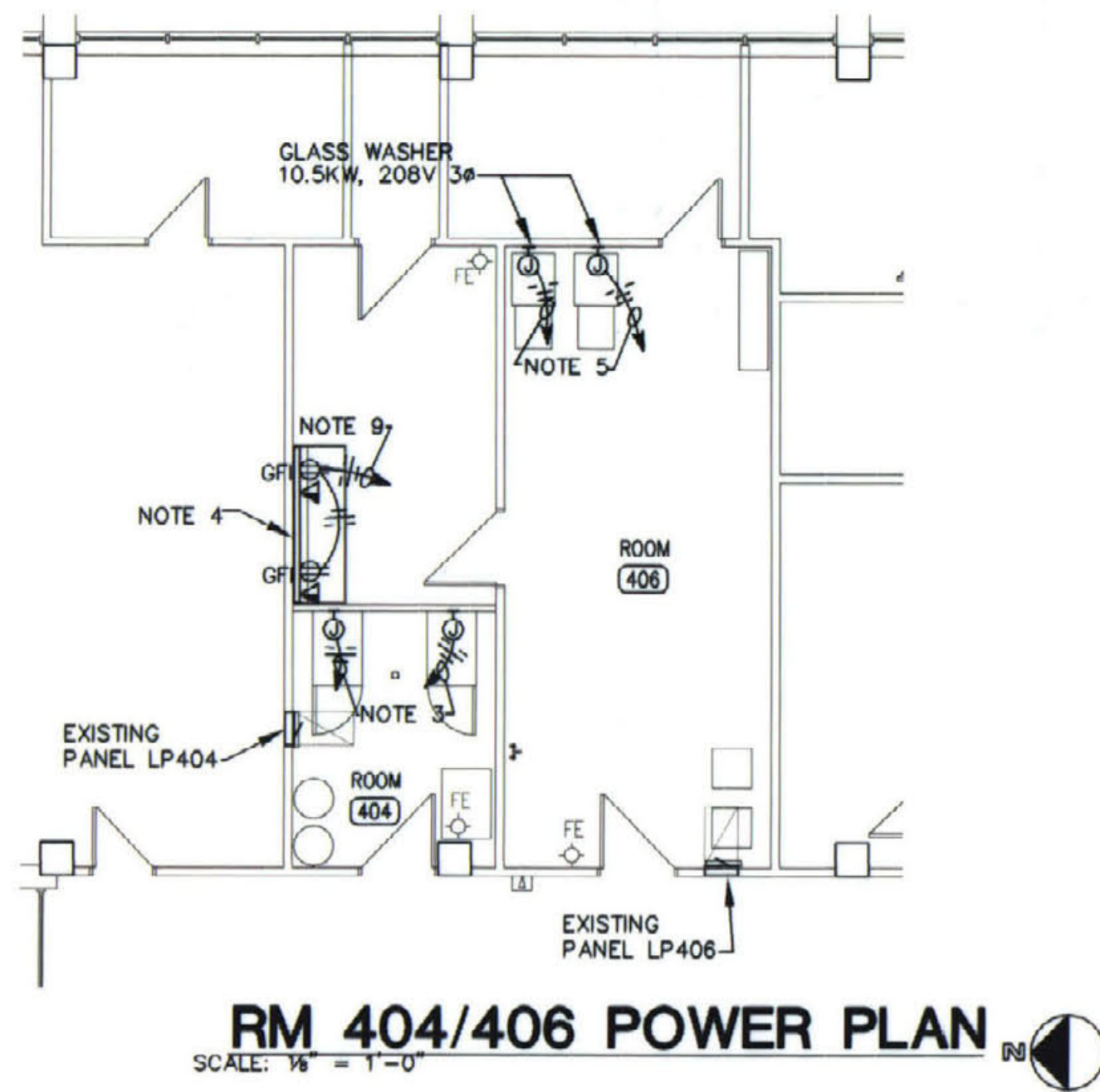
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SHEET
E-3

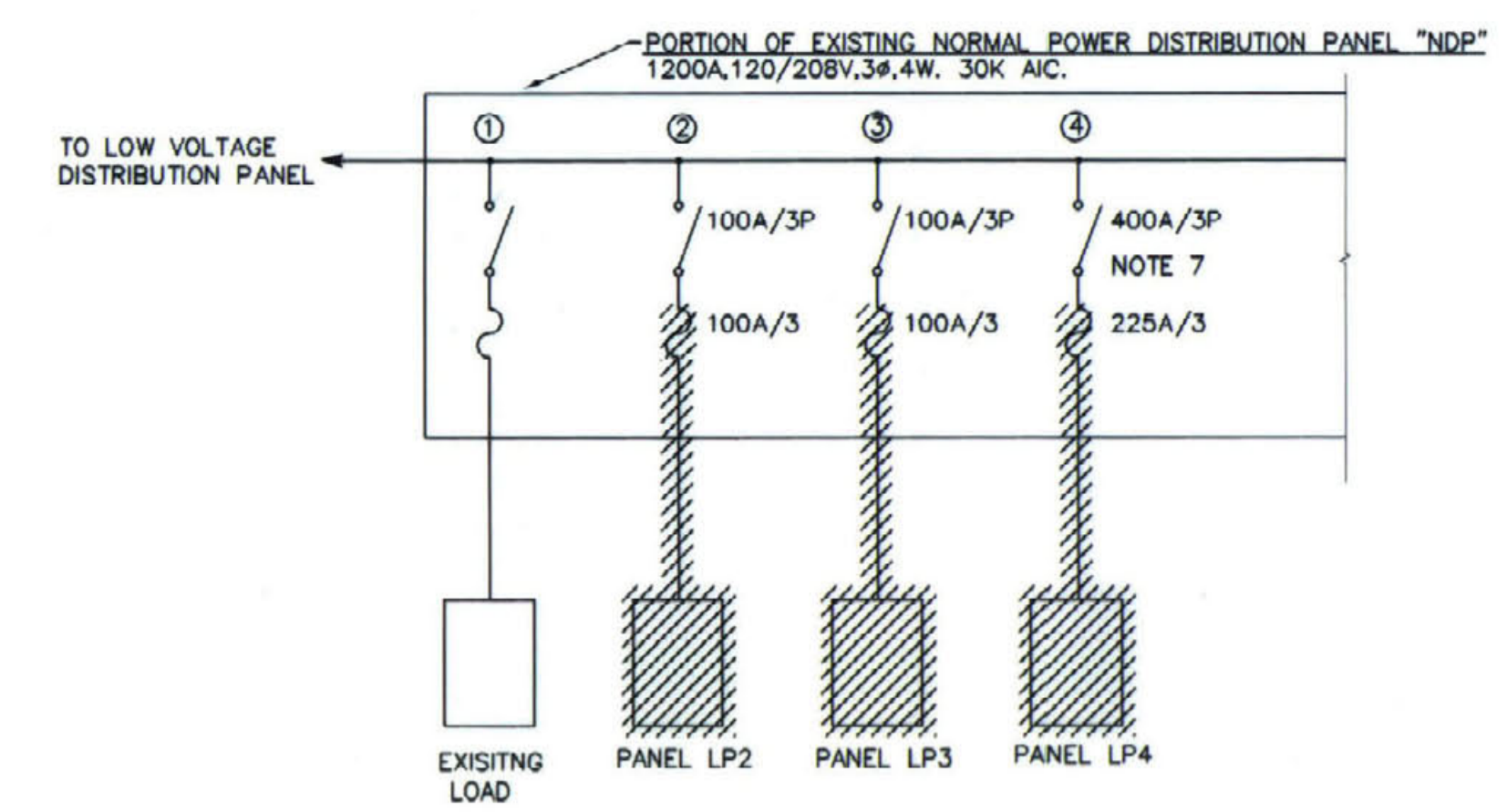
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FIRST FLOOR POWER AND
POWER AND SYSTEMS PLAN



NOTES:

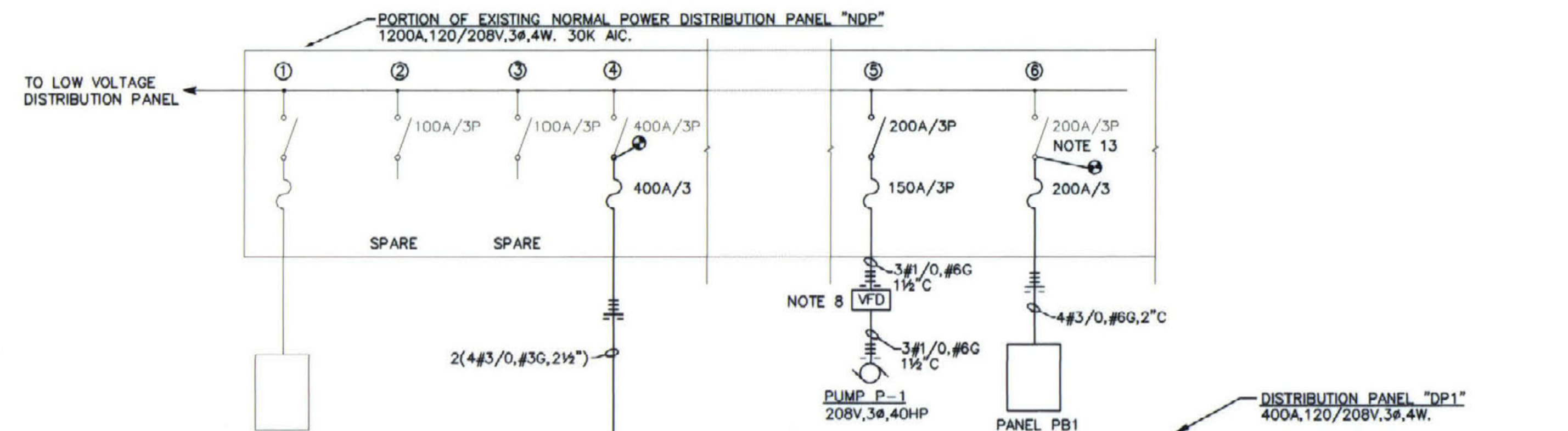
1. PROVIDE 20A/1P BREAKER AND UTILIZE EXISTING SPACE. PANEL P45 IS LOCATED IN FOURTH FLOOR INTERSTITION SPACE.
2. UTILIZE THIS SPACE FOR 200A/3P SWITCH TO FEED P-1.
3. TO PANEL LP404, 120V, 1A, 20A CIRCUIT FOR STERILIZER, PROVIDE TWO 20A/1P BREAKERS. UTILIZE EXISTING SPACE.
4. TWO COMPARTMENT SURFACE RACEWAY FOR DATA/POWER CIRCUITS. INSTALL 6" ABOVE COUNTER BACK SPLASH OR COUNTER TOP TO BOTTOM. SURFACE METAL RACEWAY SHALL BE WIREMOLD TYPE AL4800 "ISODUCT" COMPLETE WITH FITTINGS.
5. TO PANEL LP406, GLASS WASHING MACHINE. PROVIDE TWO 40A/3P BREAKERS. UTILIZE EXISTING SPACE.
6. TO PANEL EP4M, 30A, 208/230V, 1Ø RECEPTACLE FOR FREEZER, VERIFY WITH OWNER. PROVIDE TWO 30A/2P BREAKERS. UTILIZE EXISTING SPACE. PANEL EP4M IS LOCATED IN FOURTH FLOOR INTERSTITION SPACE.
7. UTILIZE THE SWITCH TO SERVE DP1.
8. VARIABLE FREQUENCY DRIVER, PROVIDED BY MECHANICAL CONTRACTOR INSTALLED BY ELECTRICAL CONTRACTOR.
9. TO PANEL LP406, PROVIDE 20A/1P BREAKER AND UTILIZE EXISTING SPACE.
10. TO PANEL LP426, PROVIDE 20A/1P BREAKER AND UTILIZE EXISTING SPACE.
11. CONNECT TO PRE WIRD FUME HOOD, COORDINATE WITH FH INSTALLER. FUME HOOD INCLUDES FLUORESCENT LIGHT FIXTURE, DUPLEX RECEPTACLE 120V, 1Ø.
12. PROVIDE 20A/1P BREAKERS AND UTILIZE EXISTING SPACE IN PANEL LP436.
13. UTILIZE EXISTING SPARE 200A/3P SWITCH AND PROVIDE 200A/3 FUSES.



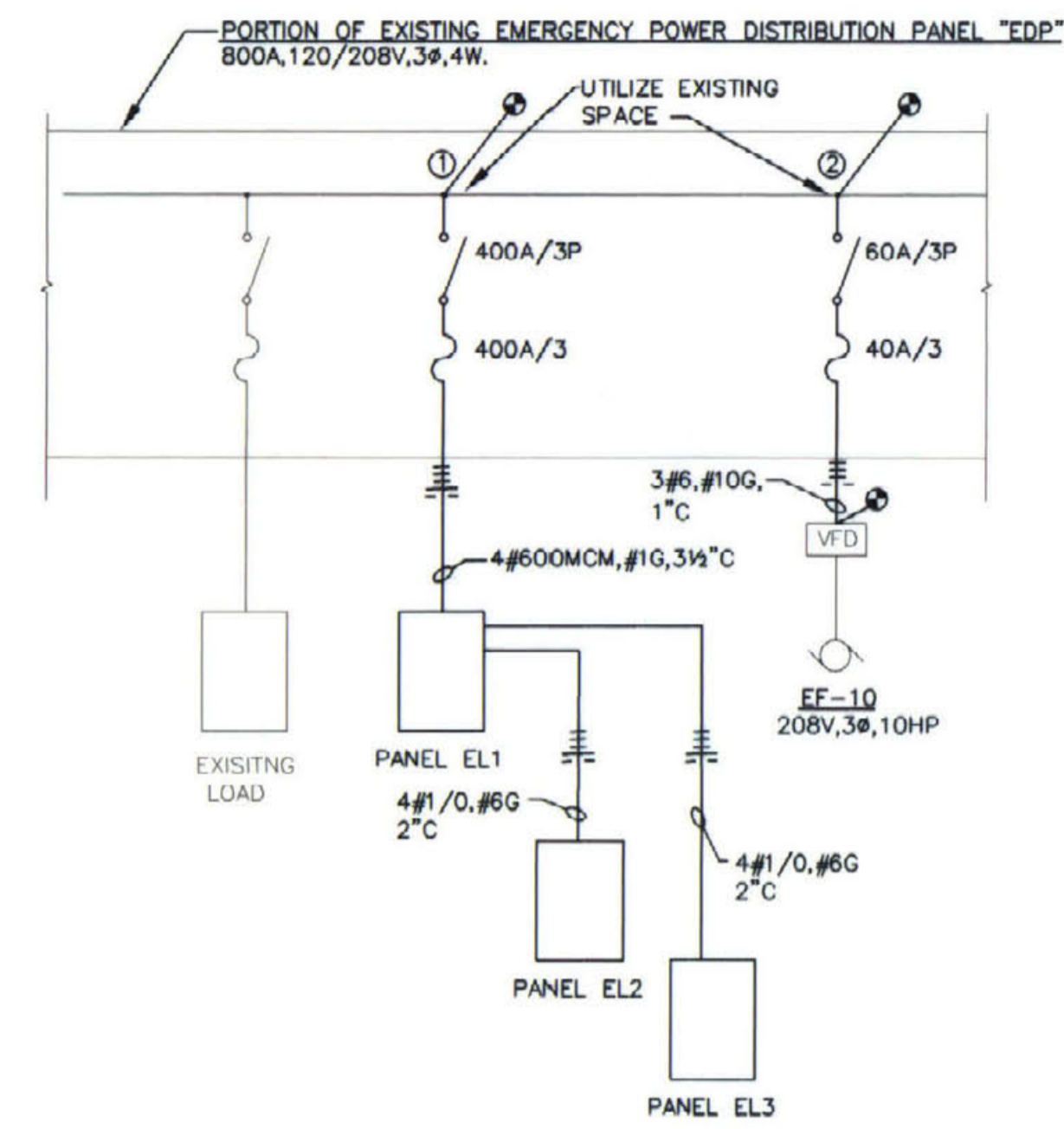
PARTIAL NORMAL ONE-LINE REMOVAL DIAGRAM
SCALE: NONE

RM 404/406 POWER PLAN
SCALE: 1/4" = 1'-0"

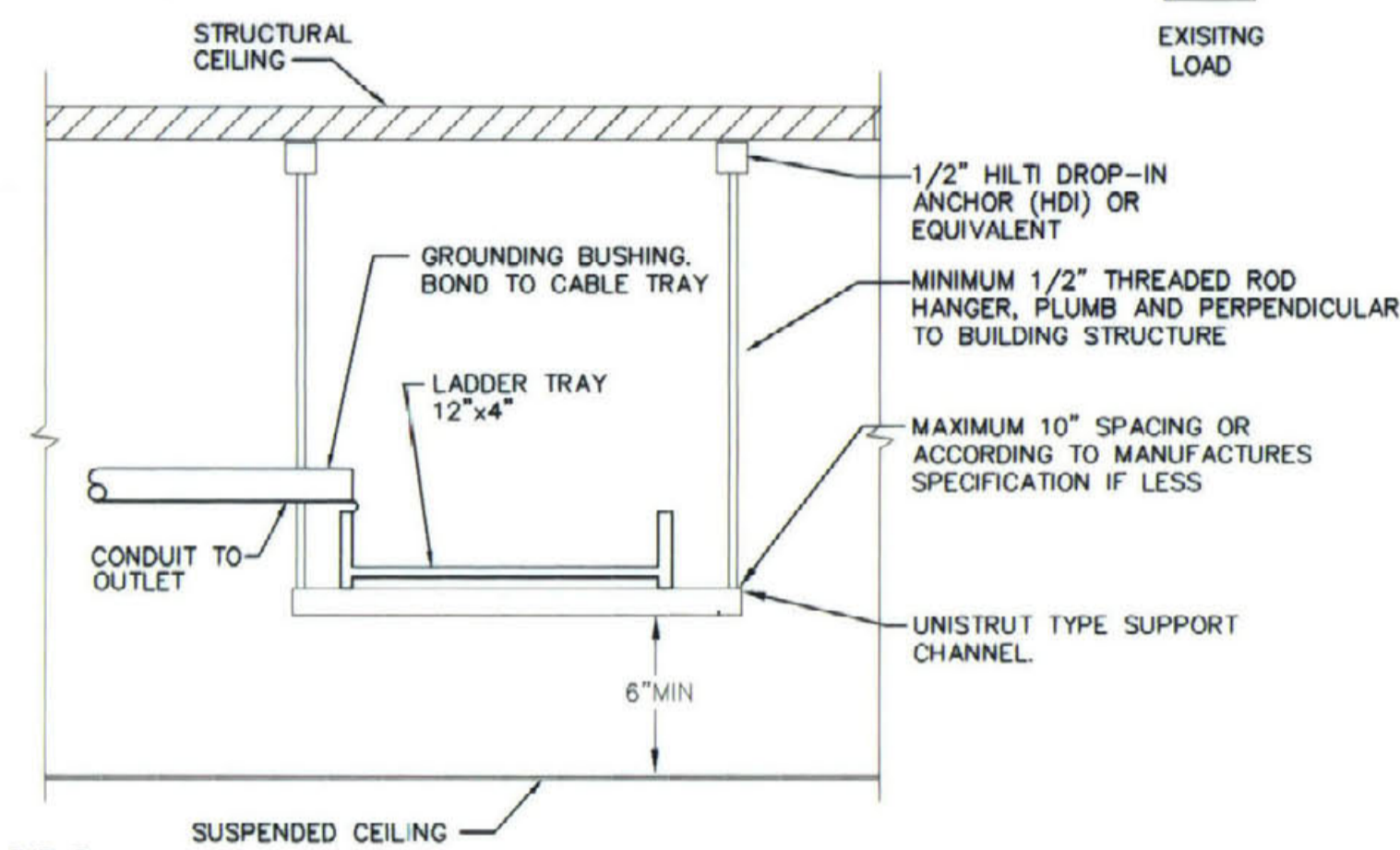
RM 426/430/436 POWER PLAN
SCALE: 1/4" = 1'-0"



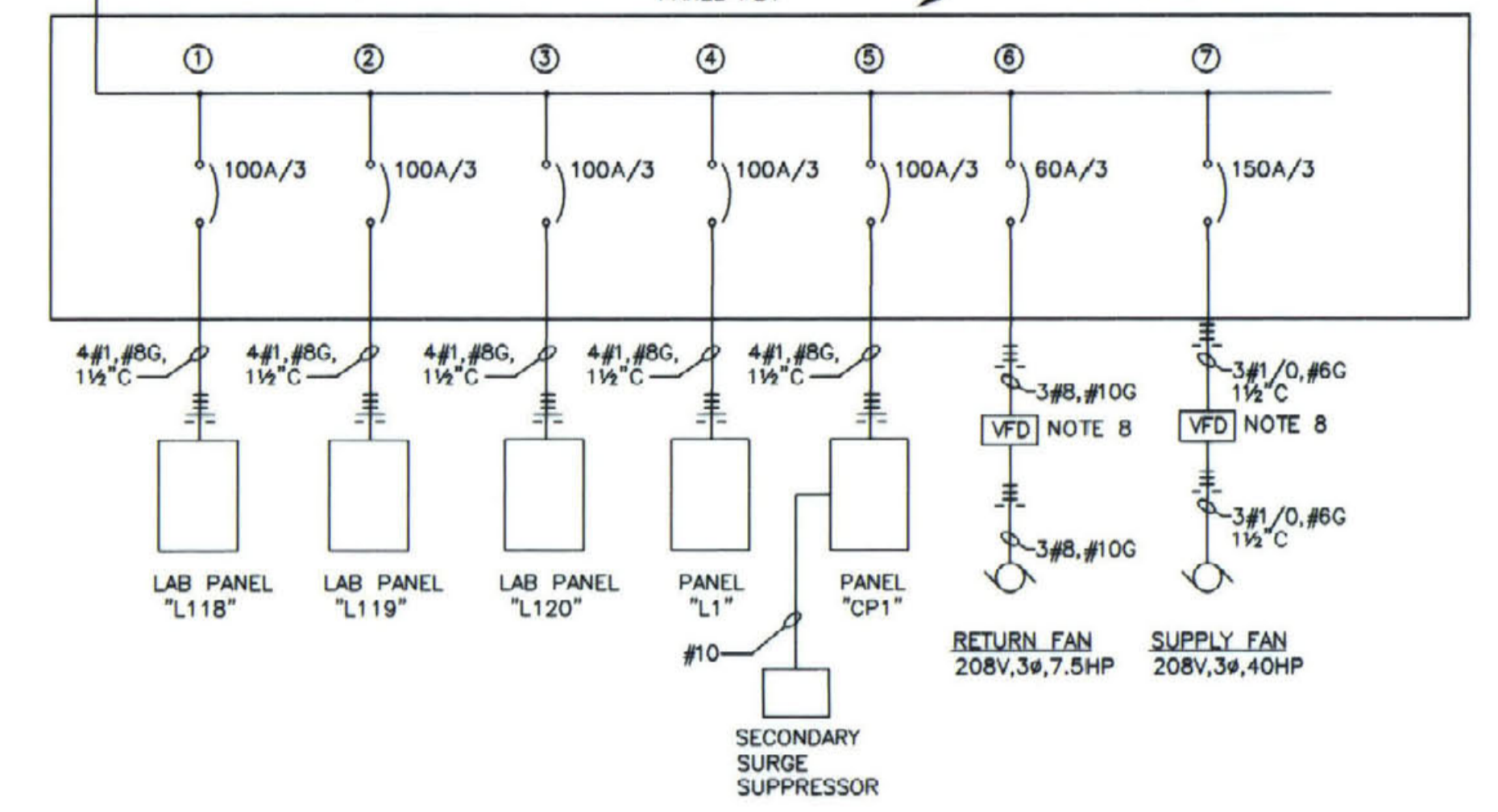
PARTIAL NORMAL POWER ONE-LINE DIAGRAM
SCALE: NONE



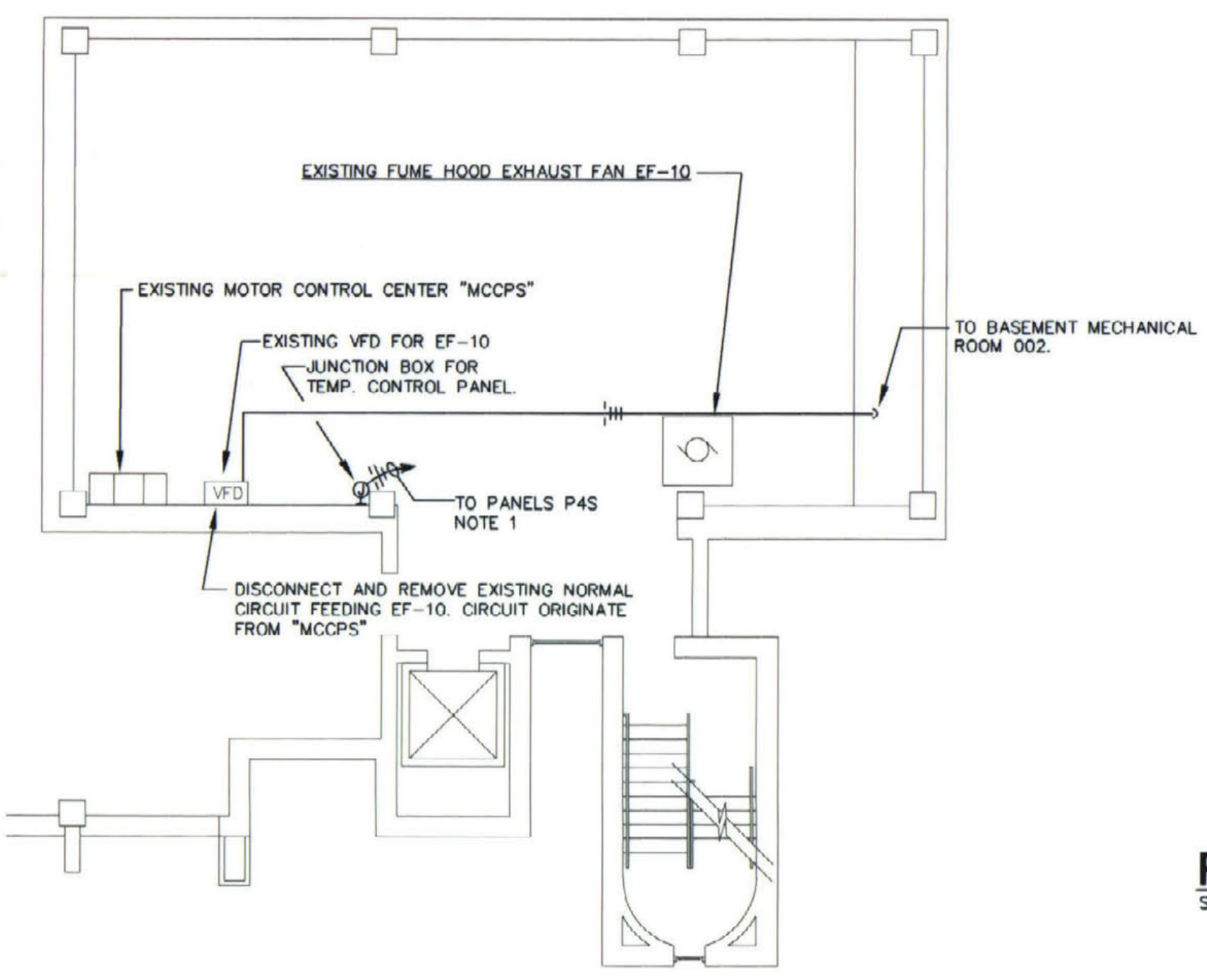
PARTIAL EMERGENCY POWER ONE-LINE DIAGRAM
SCALE: NONE



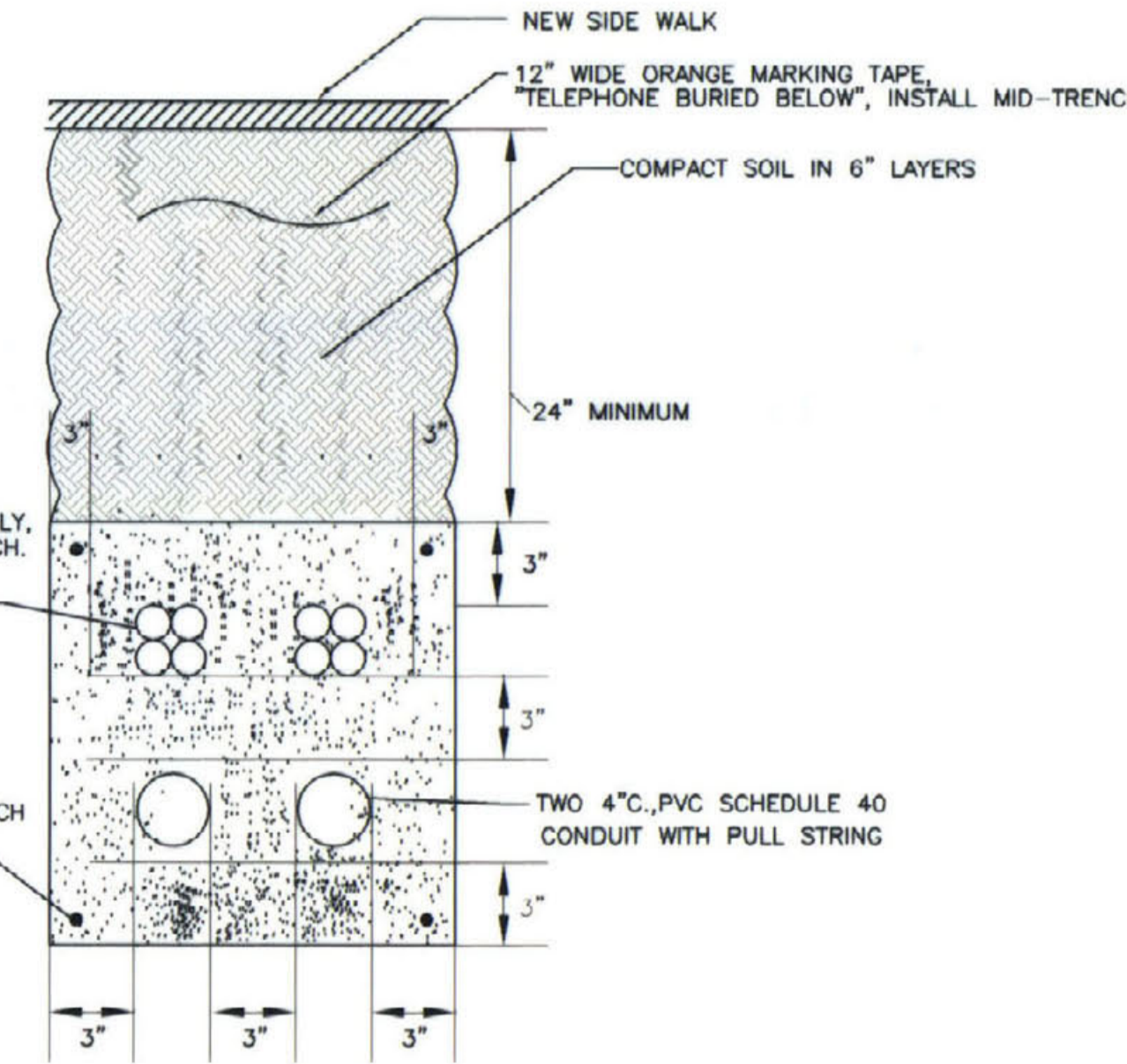
CABLE TRAY DETAIL
SCALE: NONE



PARTIAL NORMAL POWER ONE-LINE DIAGRAM
SCALE: NONE



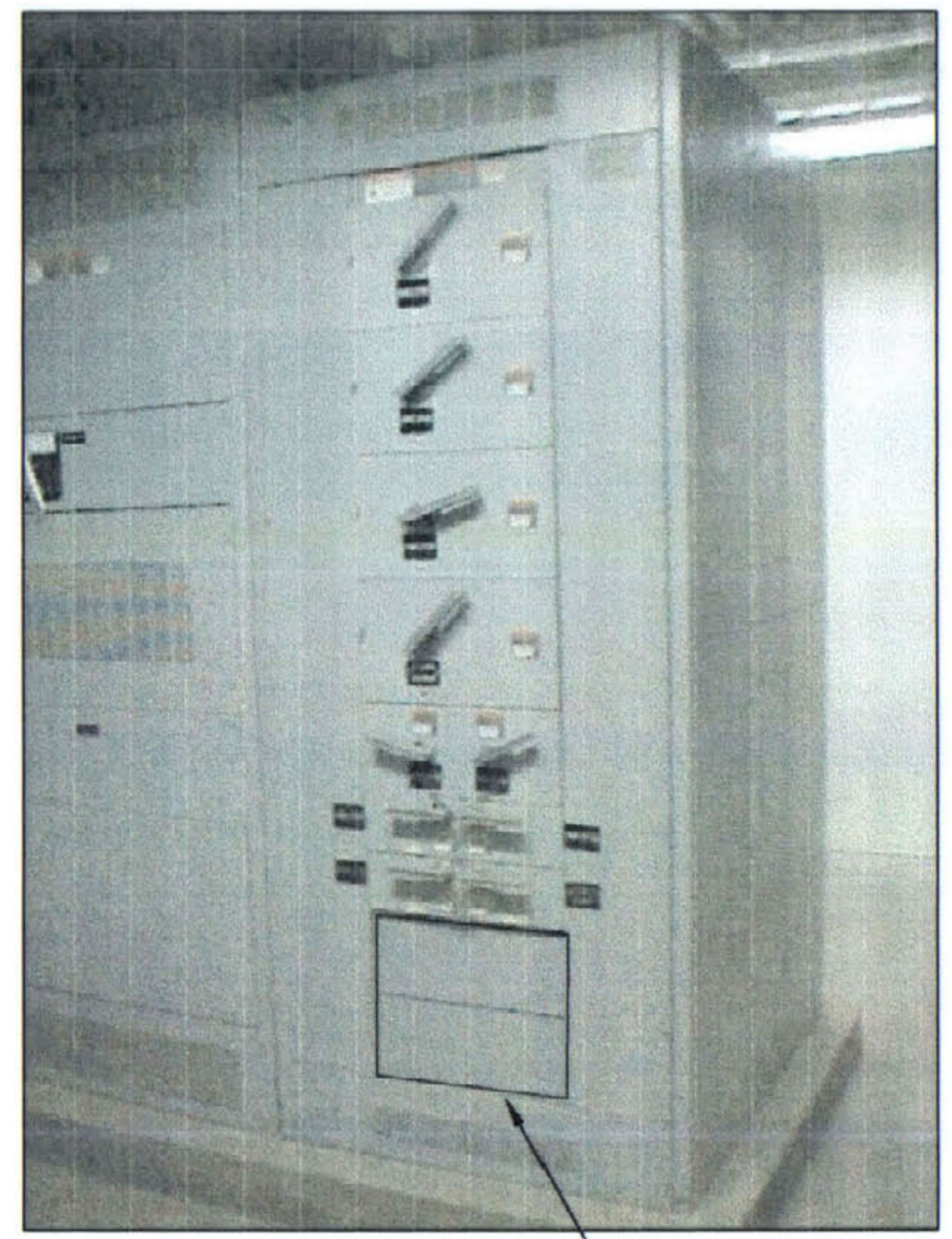
SOUTH PENTHOUSE ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



DUCT DETAIL- A
SCALE: NONE



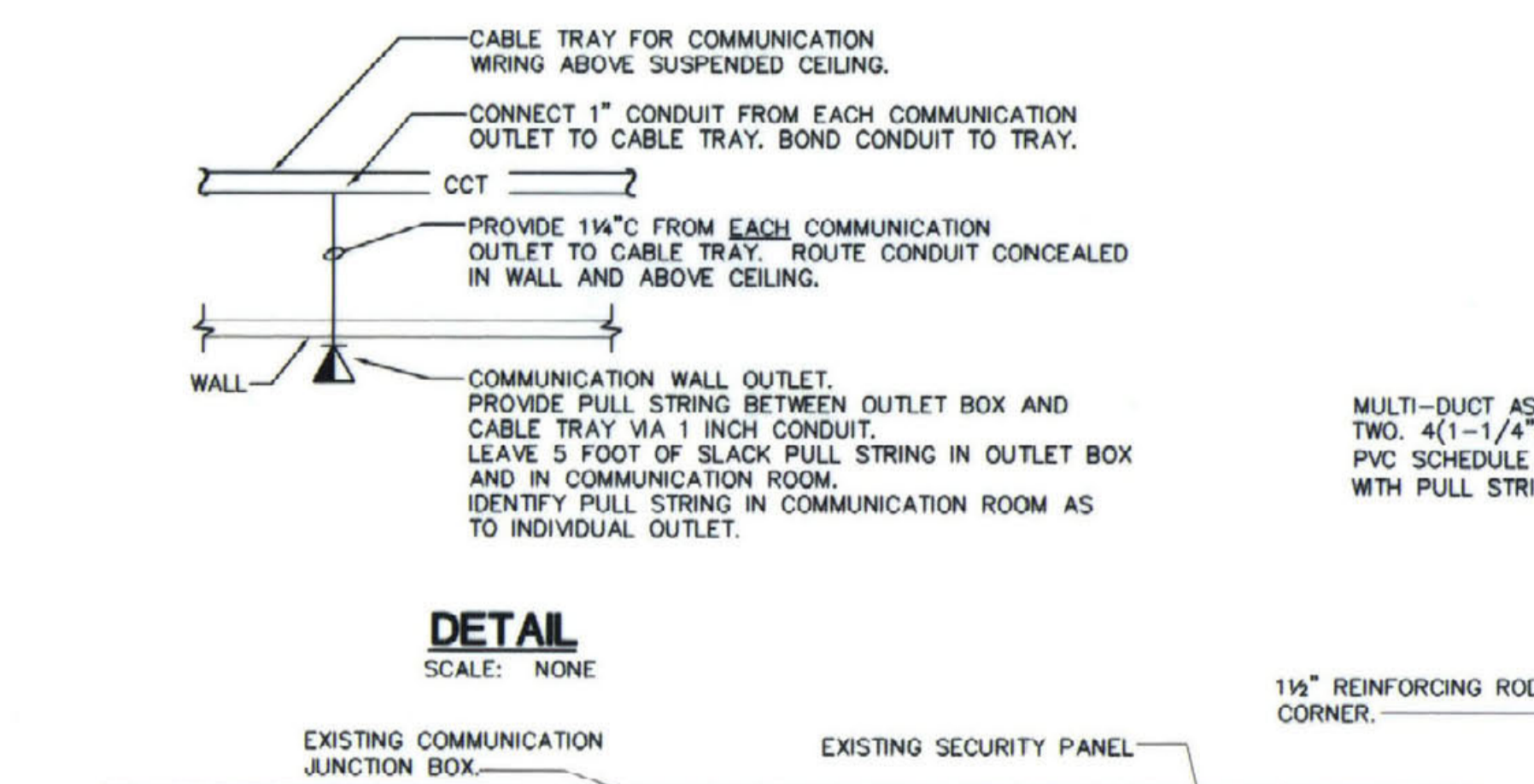
PICTURE 1-NDP
SCALE: NONE



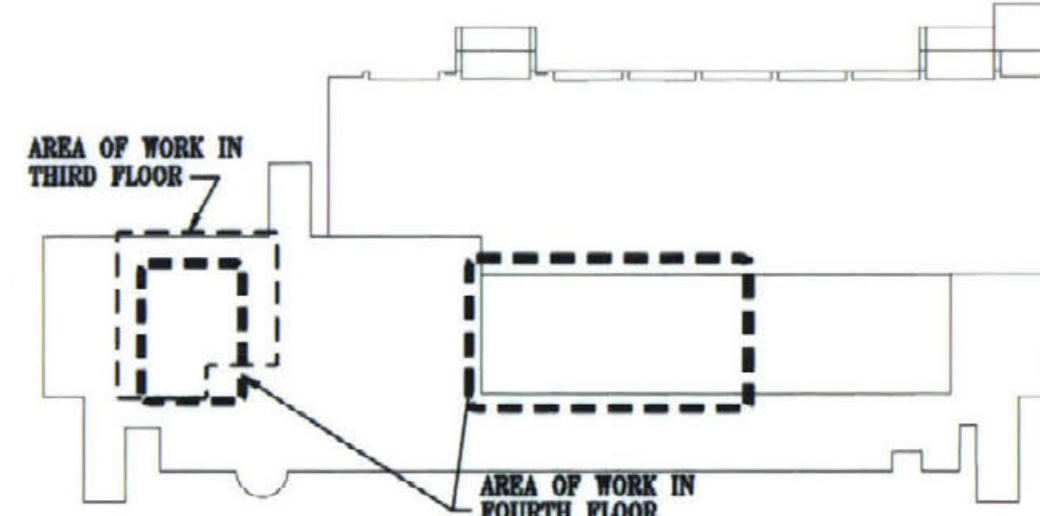
PICTURE 2-EDP
SCALE: NONE



PICTURE 3-NPD
SCALE: NONE



PICTURE 4-ROOM 002
SCALE: NONE



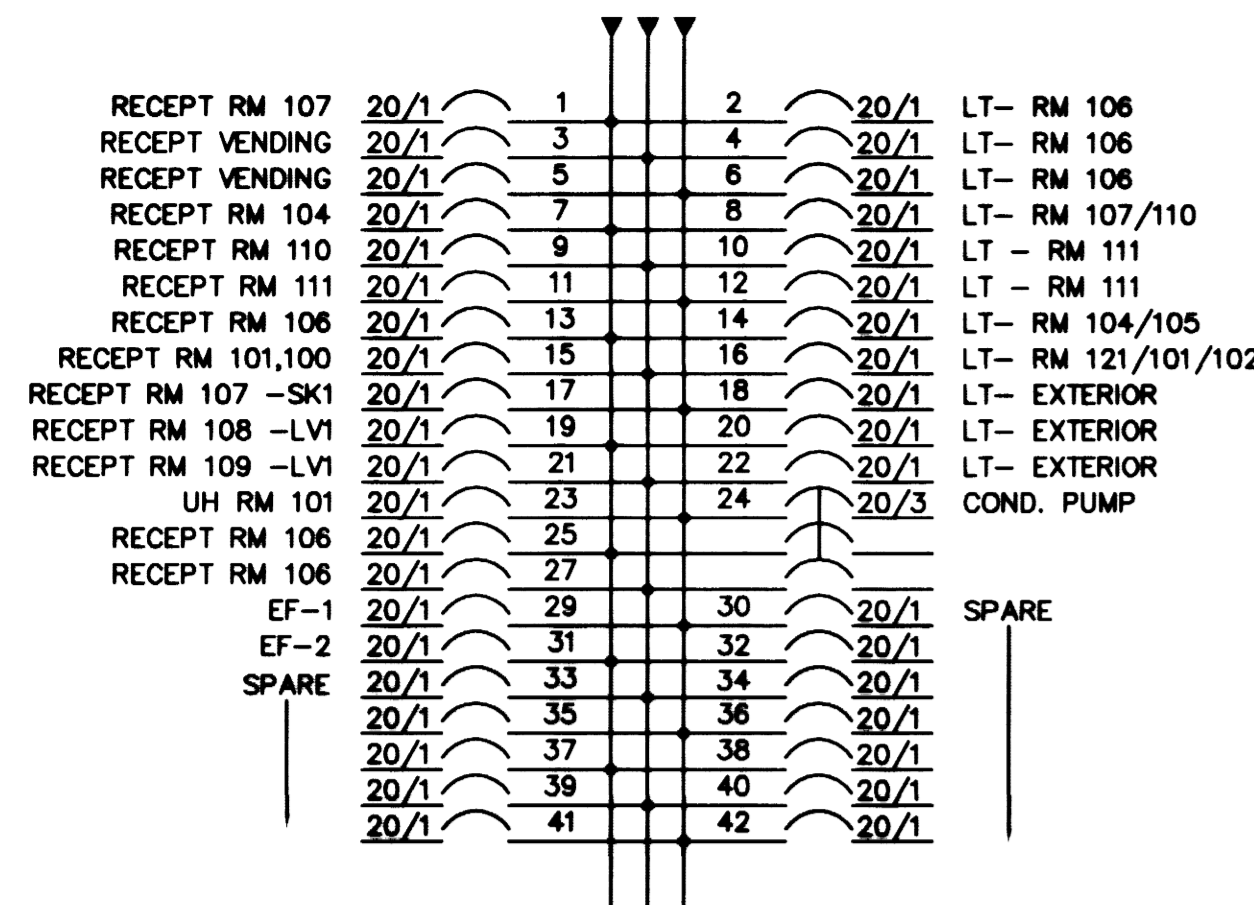
KEY PLAN
SCALE: NONE

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SHERMAN, CARTER, BARNHART, PSC
PARTNERS IN ARCHITECTURE
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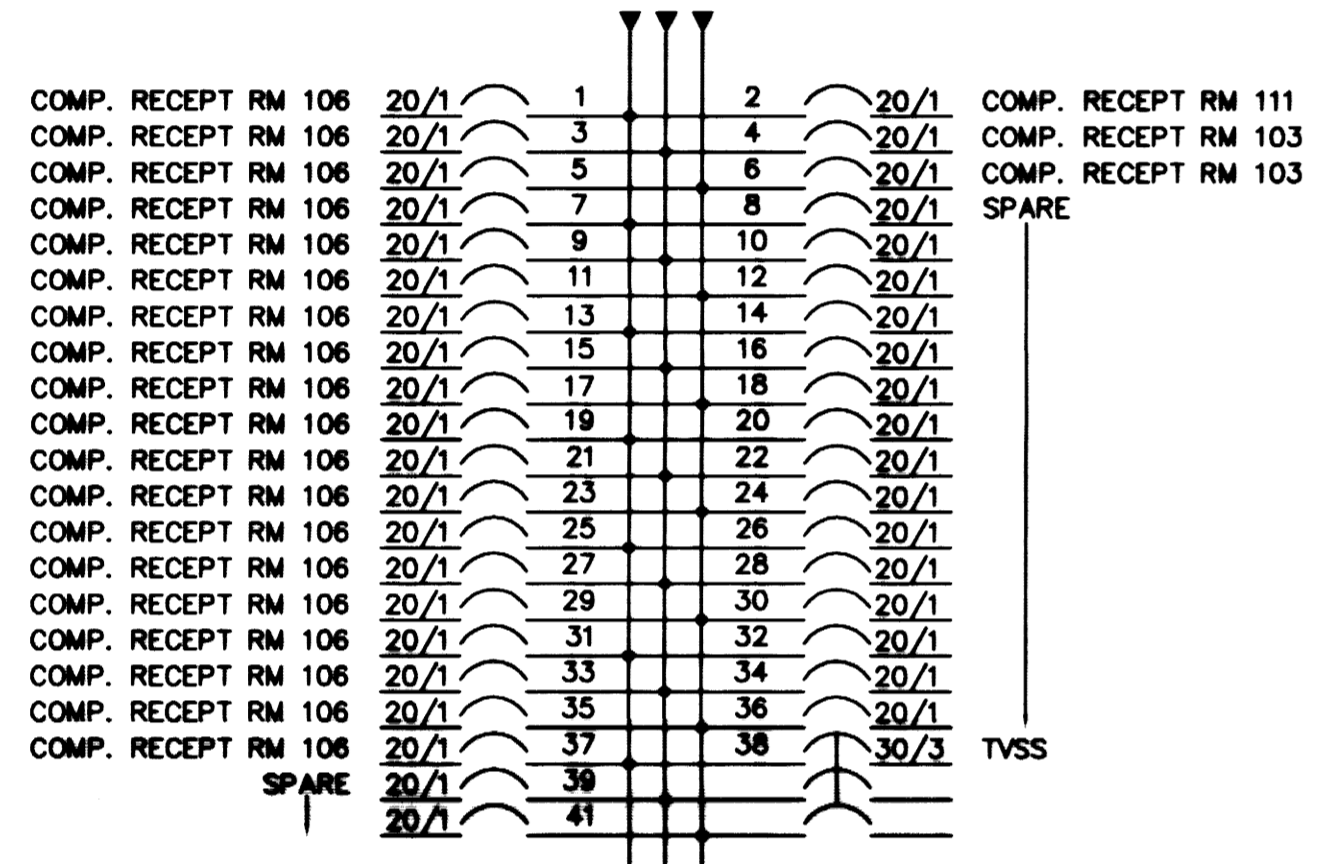


PANELBOARD "L118"
SEE REVISED SHEET E-3A

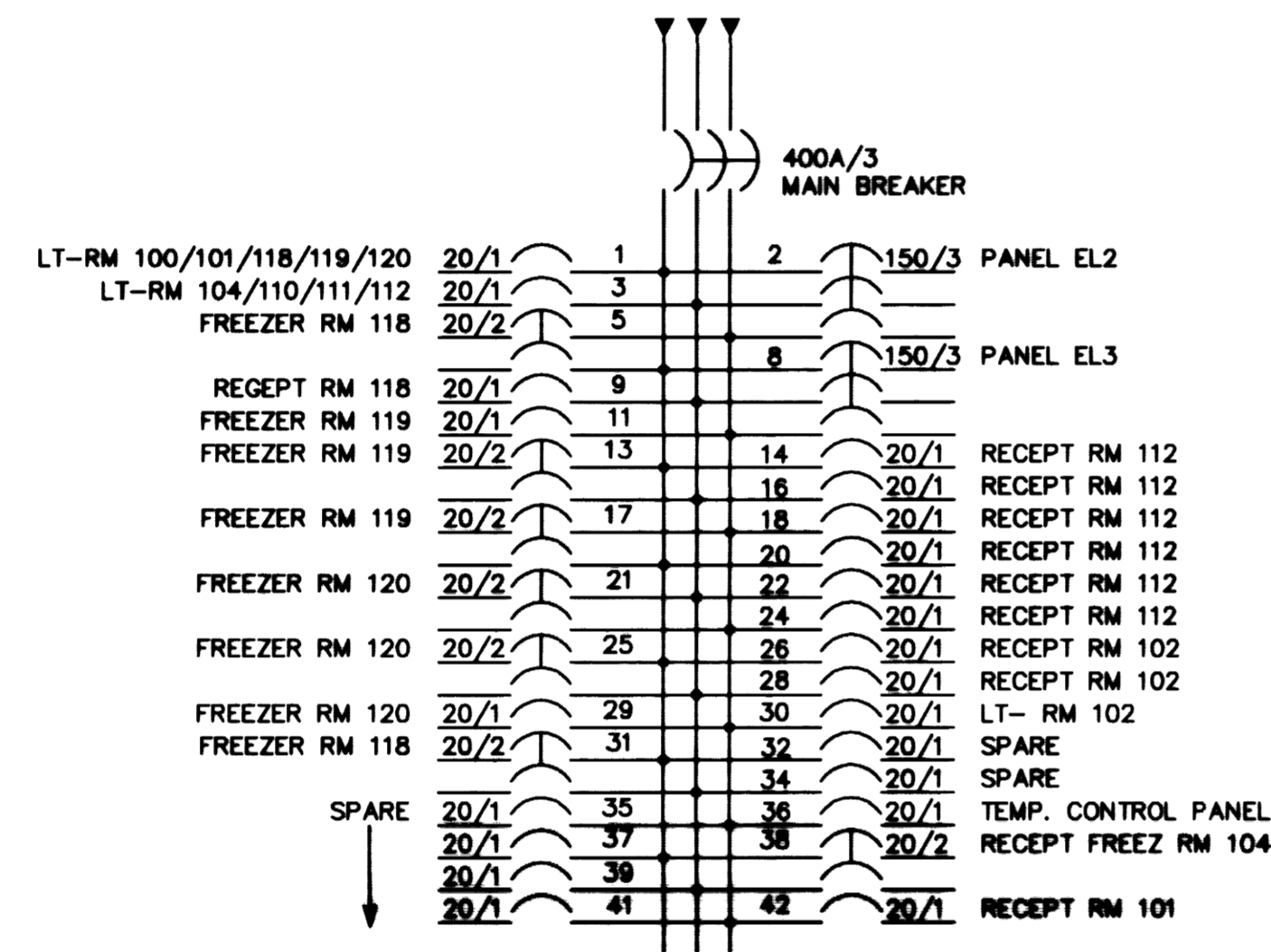
PANELBOARD "L119"
SEE REVISED SHEET E-3A

PANELBOARD "L120"
SEE REVISED SHEET E-3A

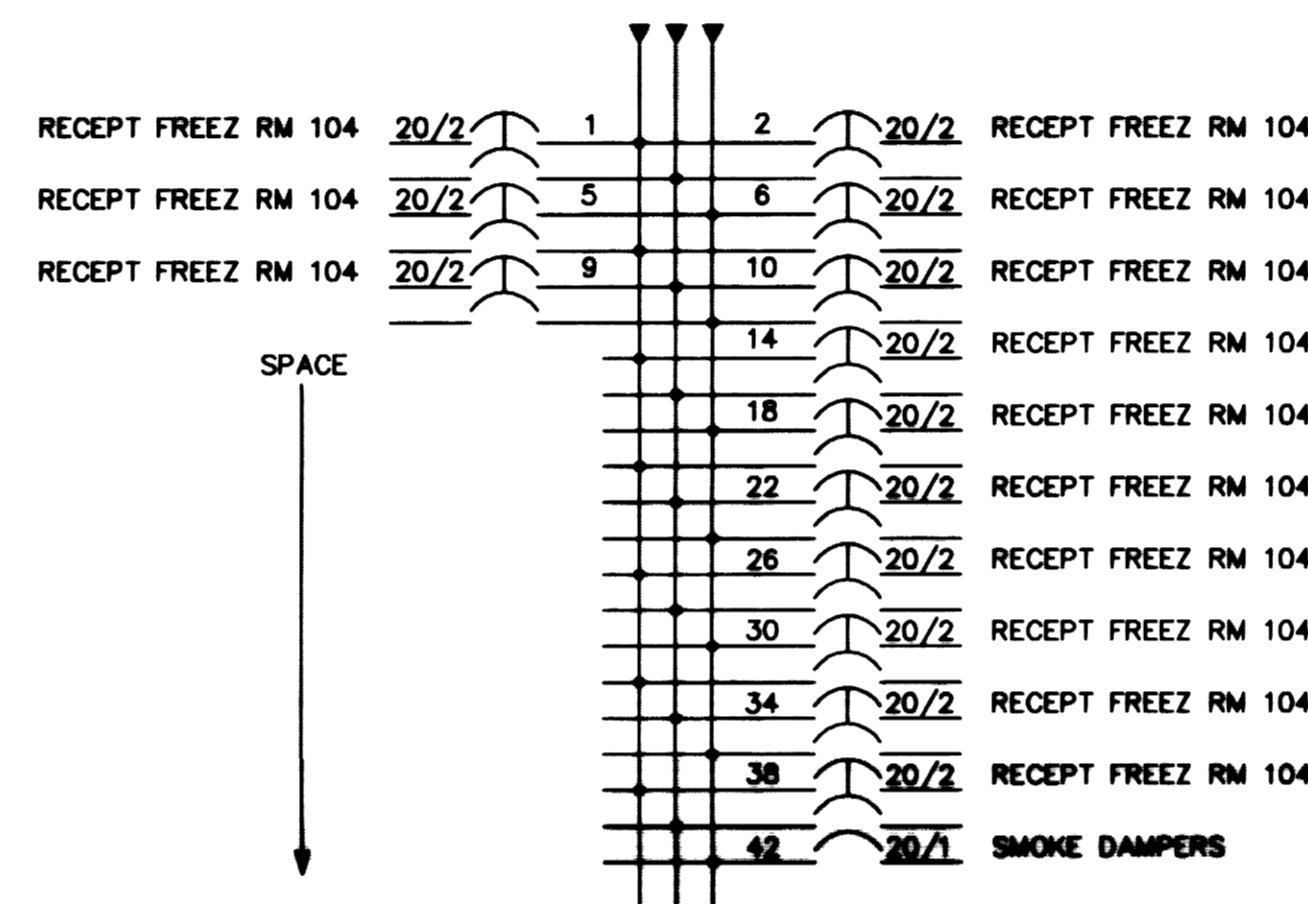
PANELBOARD "L1"
225A, 208Y/120V, 3Ø, 4W
SURFACE MOUNT
42 SPACE



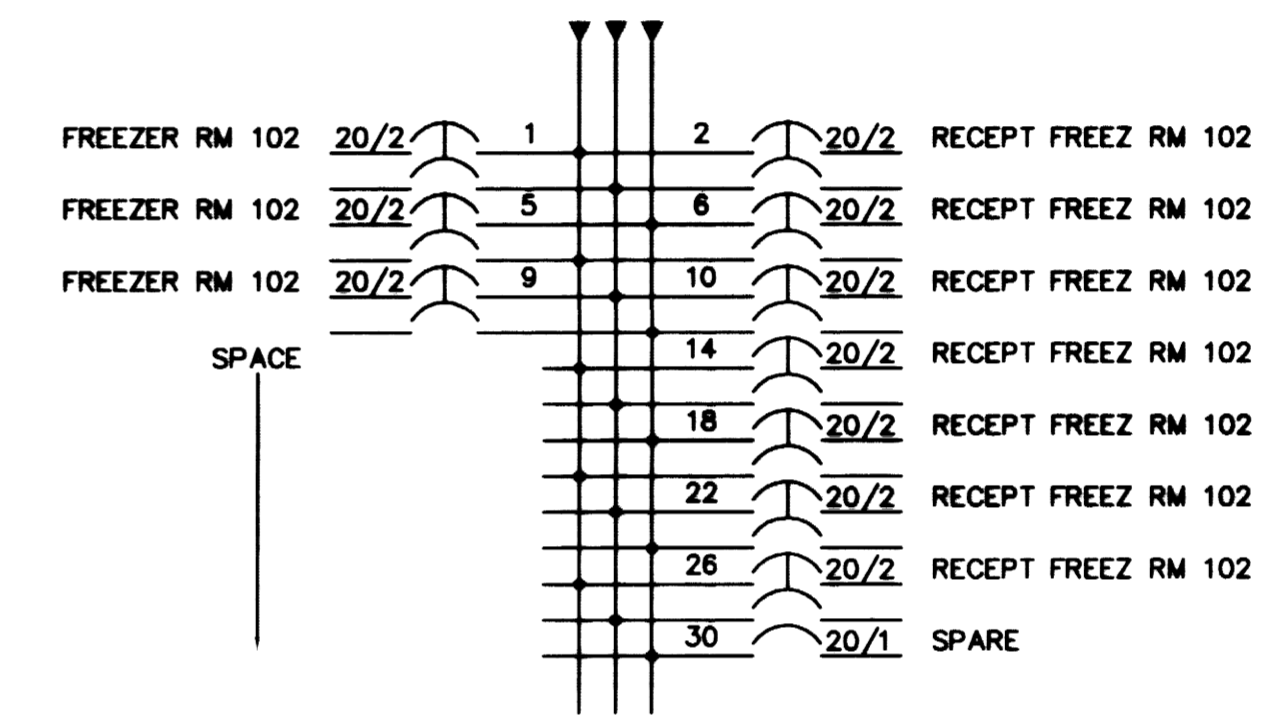
PANELBOARD "CP1"
225A, 208Y/120V, 3Ø, 4W
SURFACE MOUNT
42 SPACE



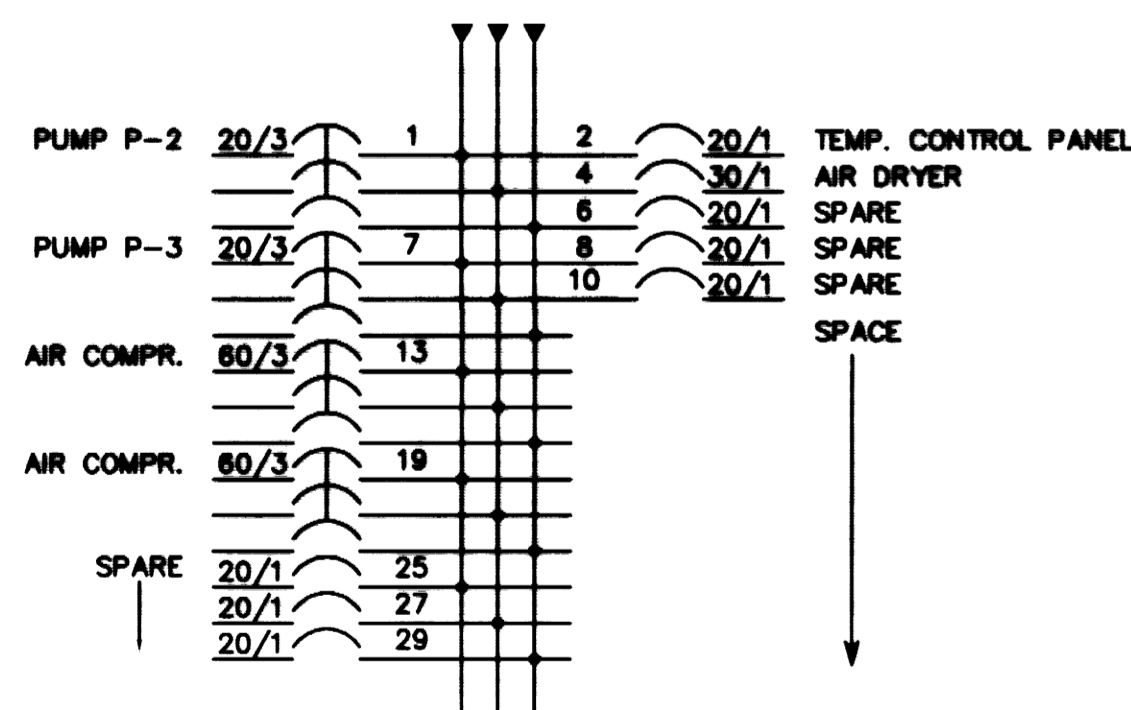
PANELBOARD "EL1"
400A, 208Y/120V, 3Ø, 4W
SURFACE MOUNT
42 SPACE



PANELBOARD "EL2"
225A, 208Y/120V, 3Ø, 4W
SURFACE MOUNT
42 SPACE



PANELBOARD "EL3"
225A, 208Y/120V, 3Ø, 4W
SURFACE MOUNT
30 SPACE



PANELBOARD "PB1"
225A, 208Y/120V, 3Ø, 4W
SURFACE MOUNT
30 SPACE

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PANEL SCHEDULES

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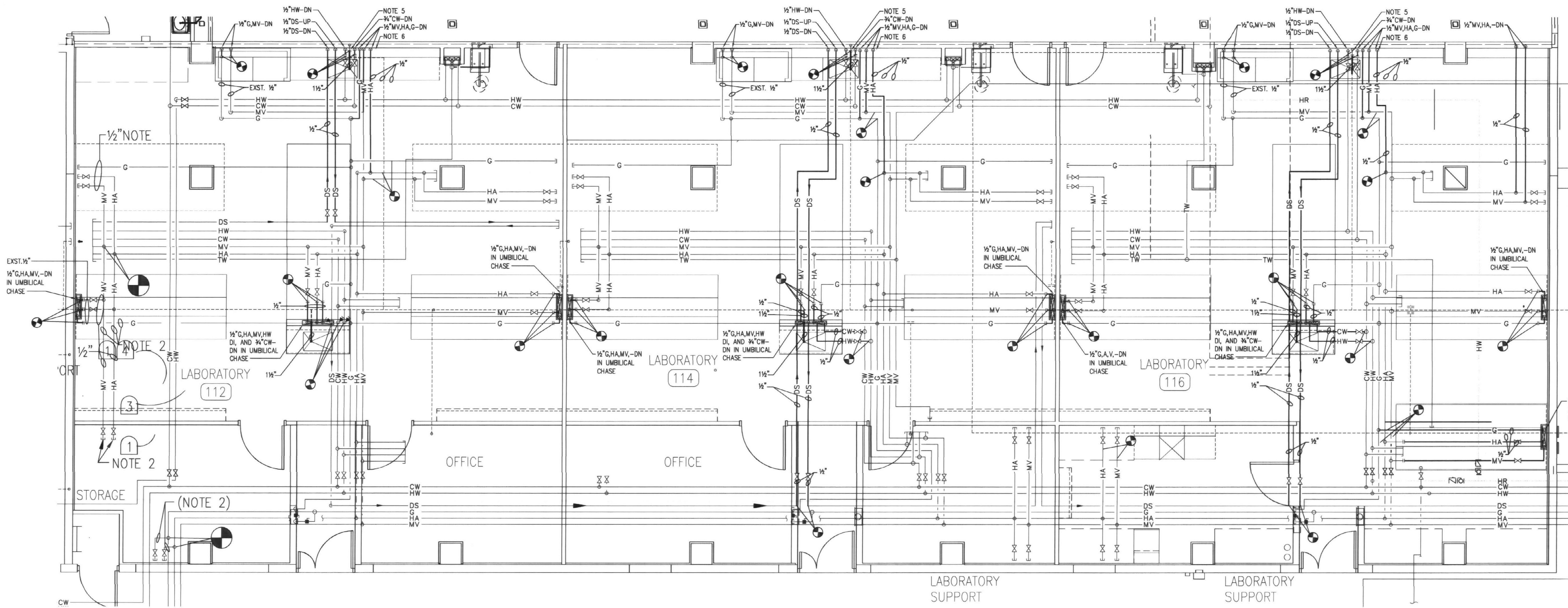
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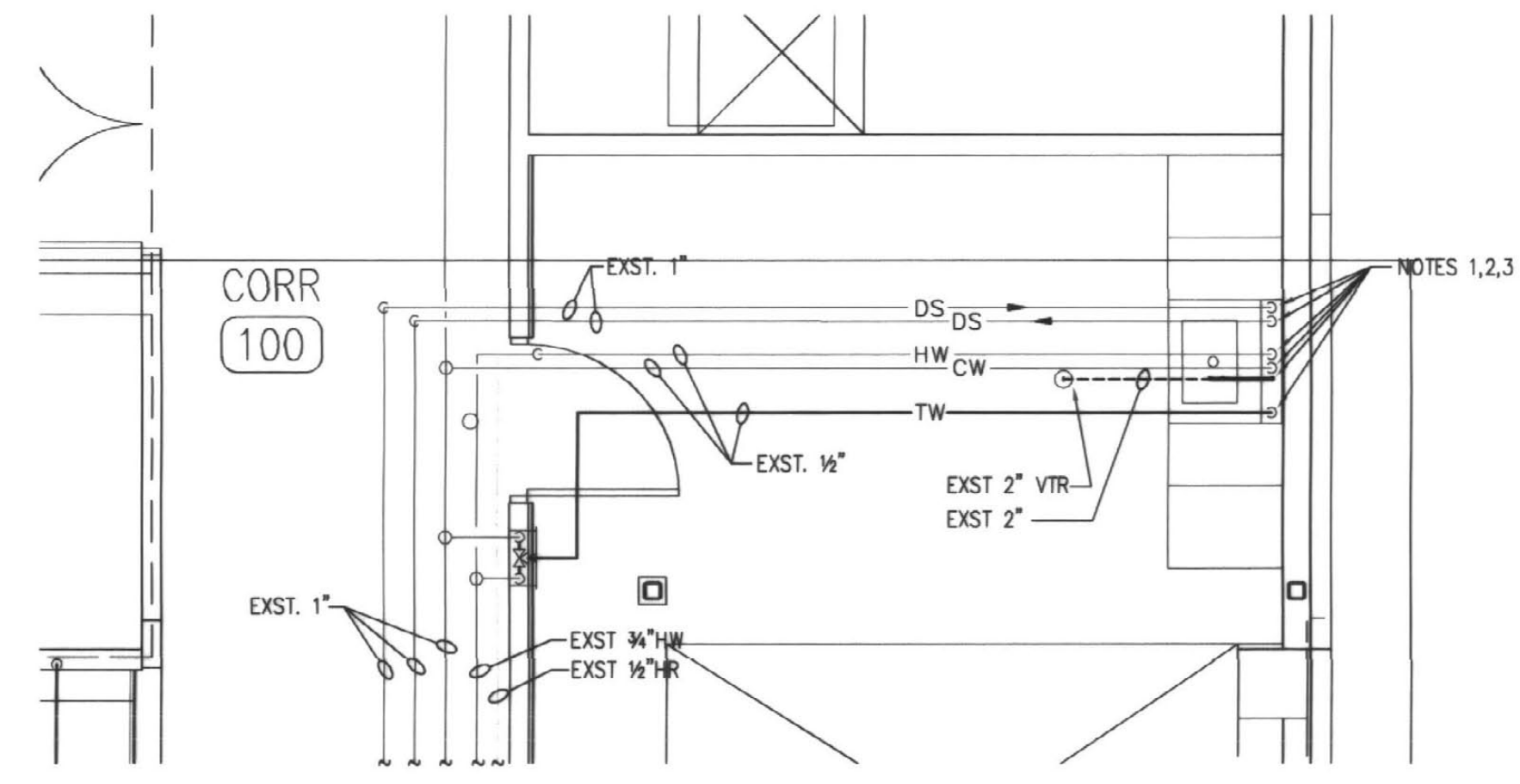
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PARTIAL FIRST FLOOR - PLUMBING PLAN AREA A
SCALE: 1/4" = 1'-0"



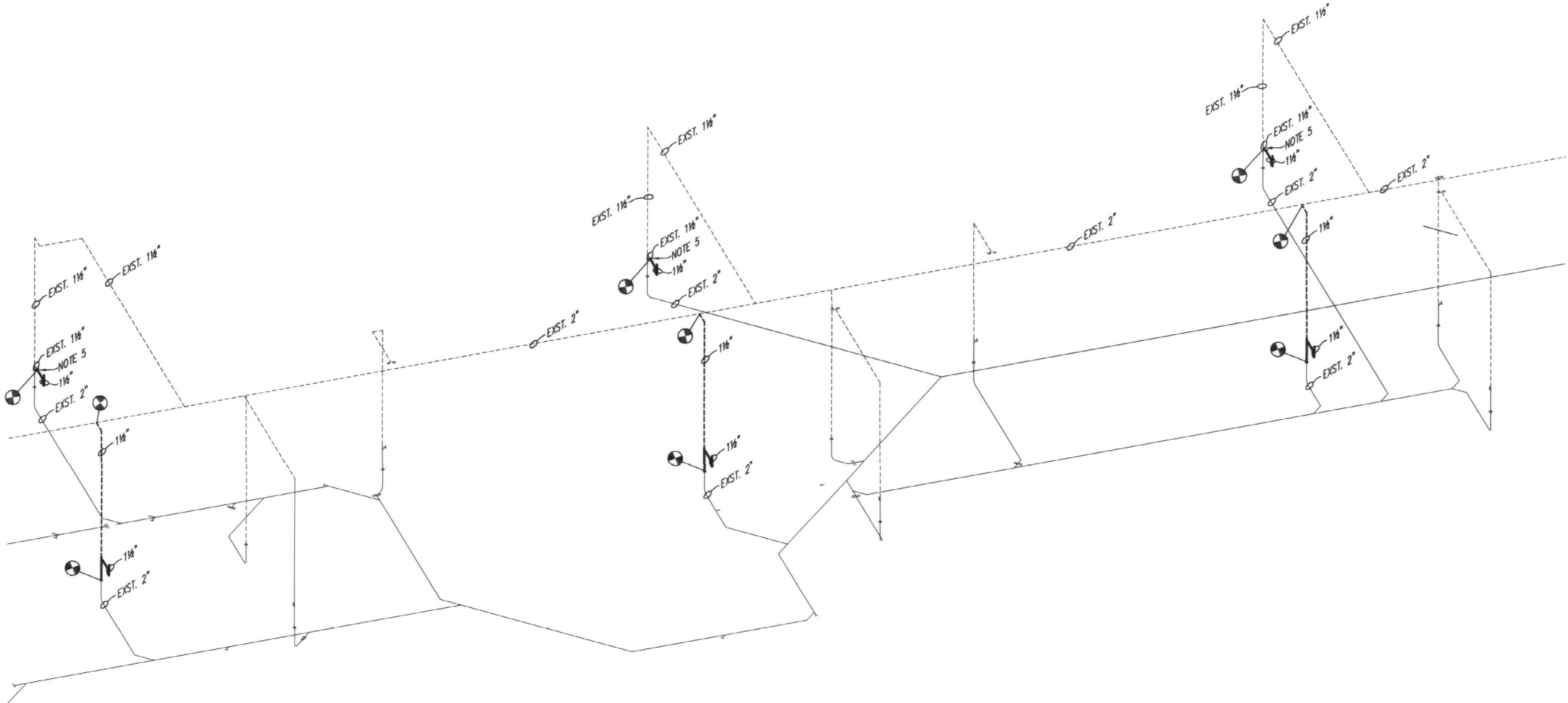
PARTIAL FIRST FLOOR - PLUMBING PLAN AREA B
SCALE: 1/4" = 1'-0"

PLUMBING LEGEND

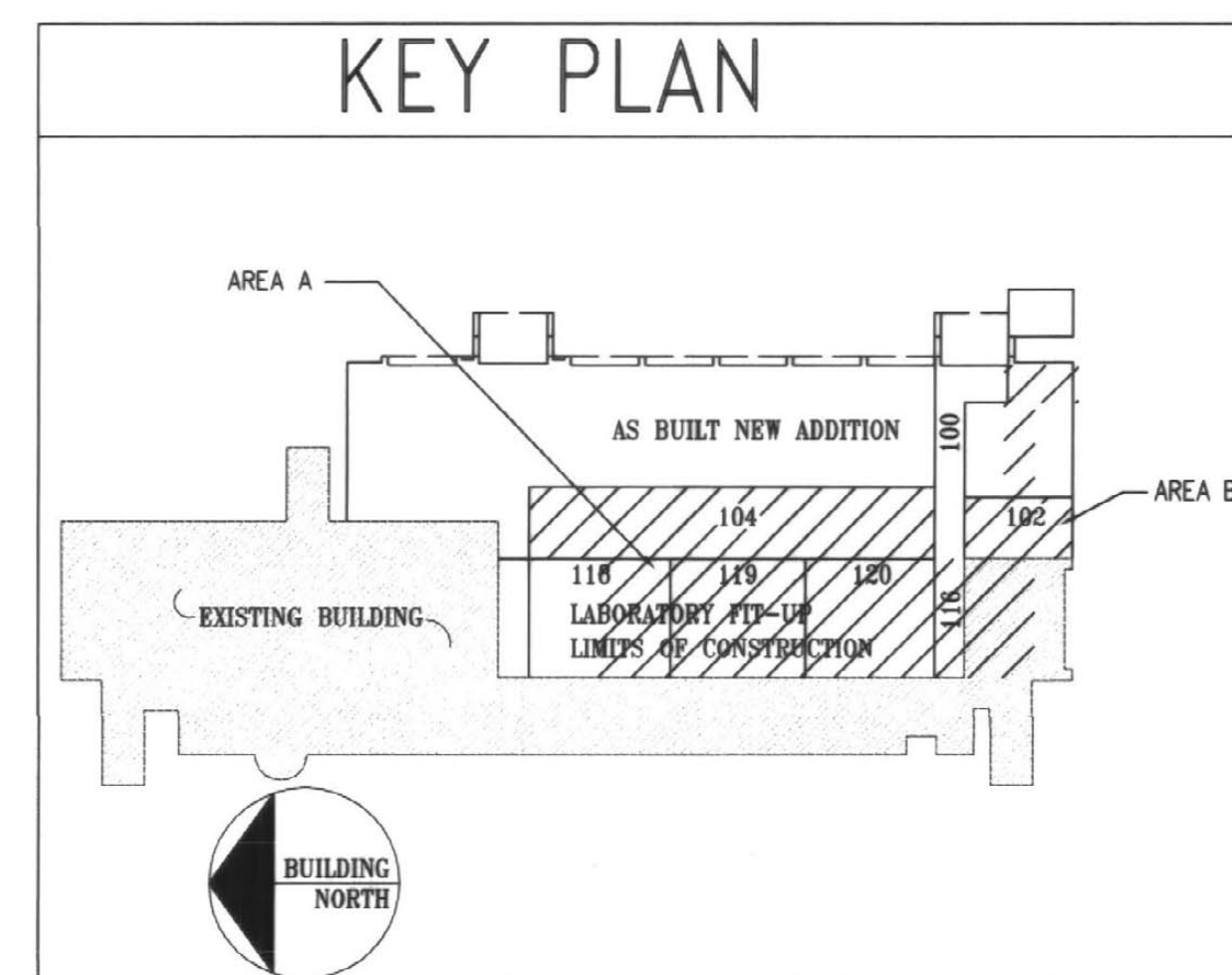
- CW COLD WATER
- HW HOT WATER
- HA AIR
- MV VACUUM
- DS DEIONIZED SUPPLY
- TW TEMPERED WATER
- S- SHUT-OFF VALVE
- ↓ SHUT-OFF VALVE IN VERTICAL
- ⊥ CAP AND PLUG
- ⊕ NEW TO EXISTING

GENERAL NOTES:

1. PLUMBING CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES THAT ARE SUPPLIED BY CASEWORK CONTRACTOR.
2. PLUMBING CONTRACTOR SHALL CONNECT ALL PIPING TO PLUMBING FIXTURES THAT ARE SUPPLIED BY CASEWORK CONTRACTOR. PLUMBING CONTRACTOR SHALL WORK CLOSE WITH THE CASEWORK CONTRACTOR SO THAT ALL PLUMBING FIXTURES ARE INSTALLED, CONNECTED, AND PROPERLY WORKING. ALL PIPING SHALL MEET STATE AND LOCAL CODES.
3. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, AND SIZES.
4. ALL WASTE AND VENT PIPING WILL BE ACID PIPING.
5. PLUMBING CONTRACTOR SHALL CONNECT INTO EXIST. 1 1/2" STUB OUT PROVIDE 1 1/2" TRAP AND ARM.
6. PLUMBING CONTRACTOR SHALL ROUTE ALL PIPING DOWN IN UMBILICAL CHASE.



WASTE AND VENT PIPING DIAGRAM
SCALE: NONE



KEY PLAN

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PLUMBING PLANS
AND DIAGRAM

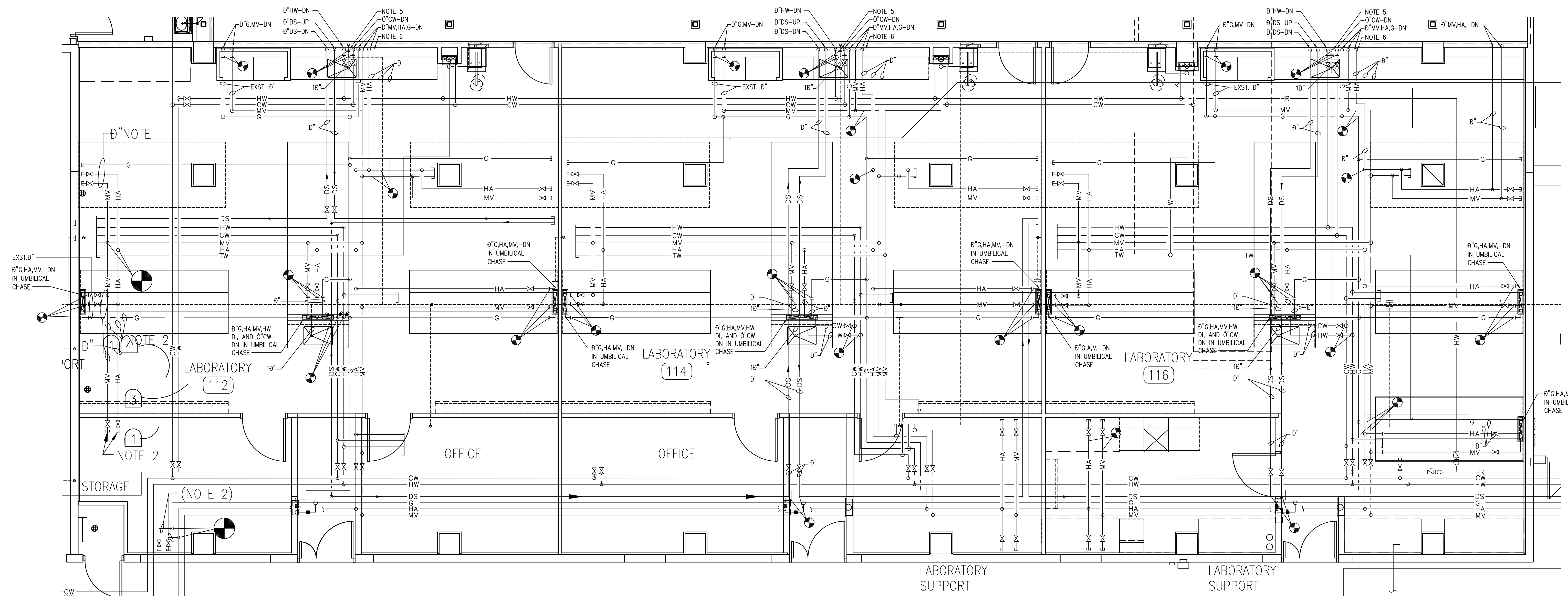
RECORD DRAWINGS JUNE 18, 2003
Sherman Carter Barnhart PSC
PARTNERS IN ARCHITECTURE
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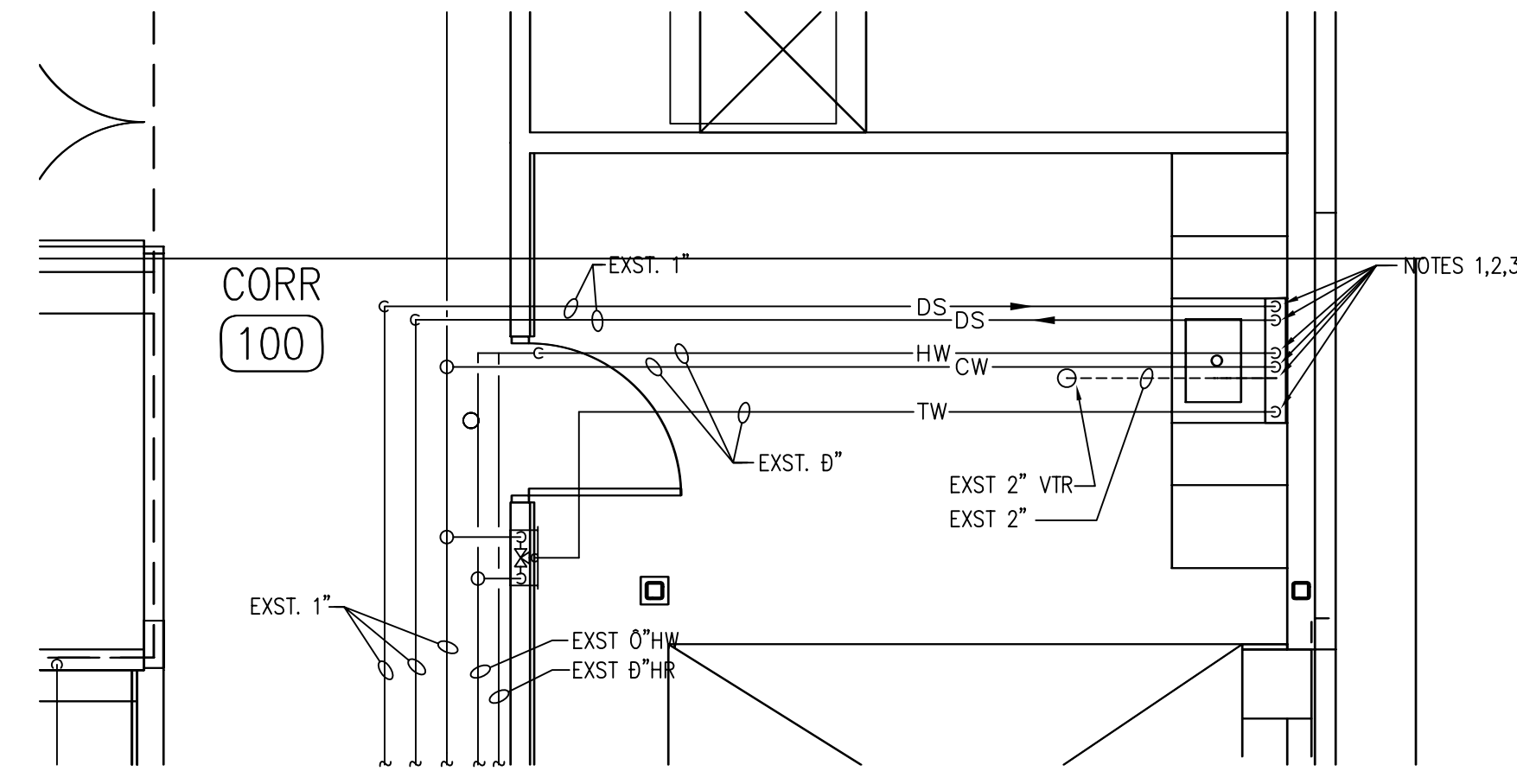


PLUMBING LEGEND

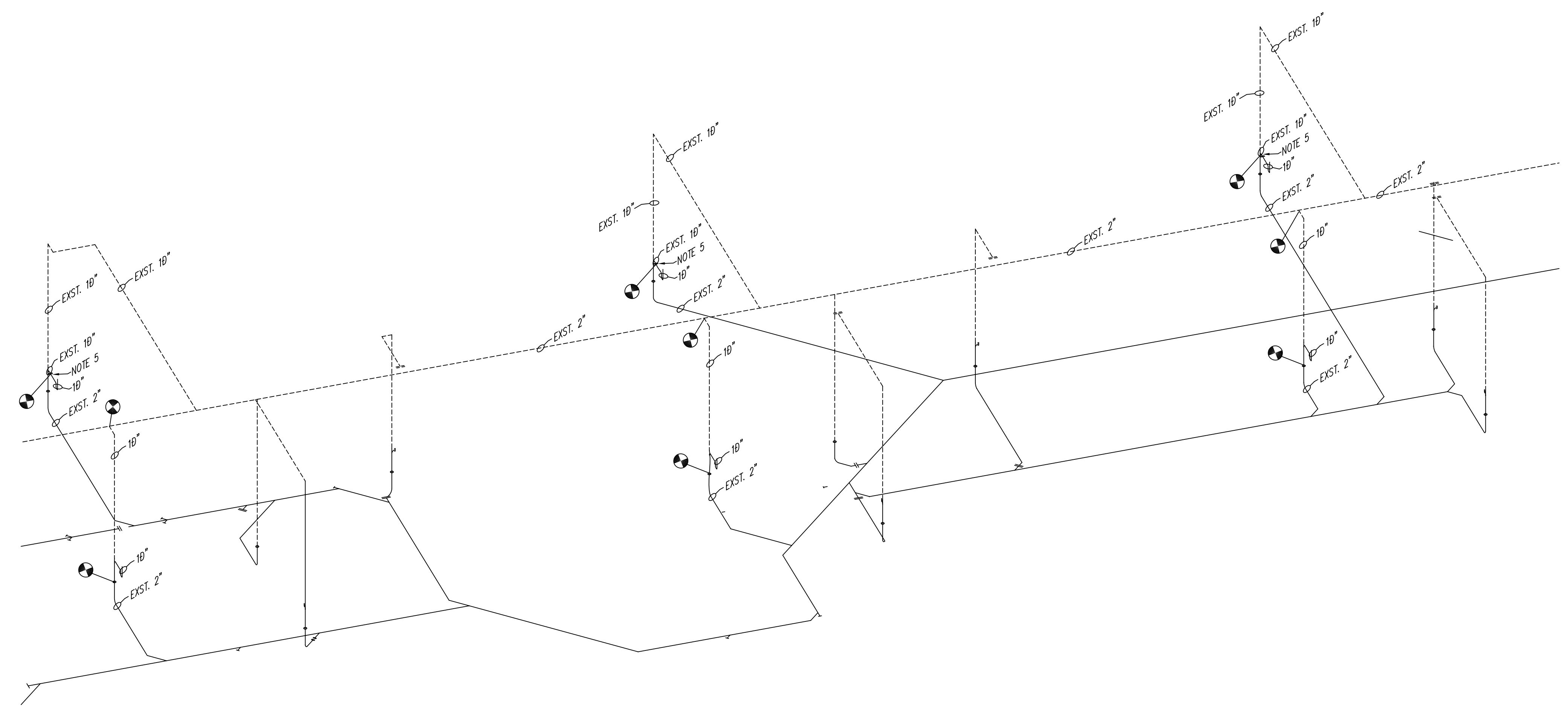
CW	COLD WATER
HW	HOT WATER
HA	AIR
MV	VACUUM
DS	DEIONIZED SUPPLY
TW	TEMPERED WATER
— —	SHUT-OFF VALVE
— —	SHUT-OFF VALVE IN VERTICAL
— —	CAP AND PLUG
●	NEW TO EXISTING

- GENERAL NOTES:**
1. PLUMBING CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES THAT ARE SUPPLIED BY CASEWORK CONTRACTOR.
 2. PLUMBING CONTRACTOR SHALL CONNECT ALL PIPING TO PLUMBING FIXTURES THAT ARE SUPPLIED BY CASEWORK CONTRACTOR. PLUMBING CONTRACTOR SHALL WORK CLOSE WITH THE CASEWORK CONTRACTOR SO THAT ALL PLUMBING FIXTURES ARE INSTALLED, CONNECTED, AND PROPERLY WORKING. ALL PIPING SHALL MEET STATE AND LOCAL CODES.
 3. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, AND SIZES.
 4. ALL WASTE AND VENT PIPING WILL BE ACID PIPING.
 5. PLUMBING CONTRACTOR SHALL CONNECT INTO EXST. 1" STUB OUT PROVIDE 1" TRAP AND ARM.
 6. PLUMBING CONTRACTOR SHALL ROUTE ALL PIPING DOWN IN UMBILICAL CHASE.

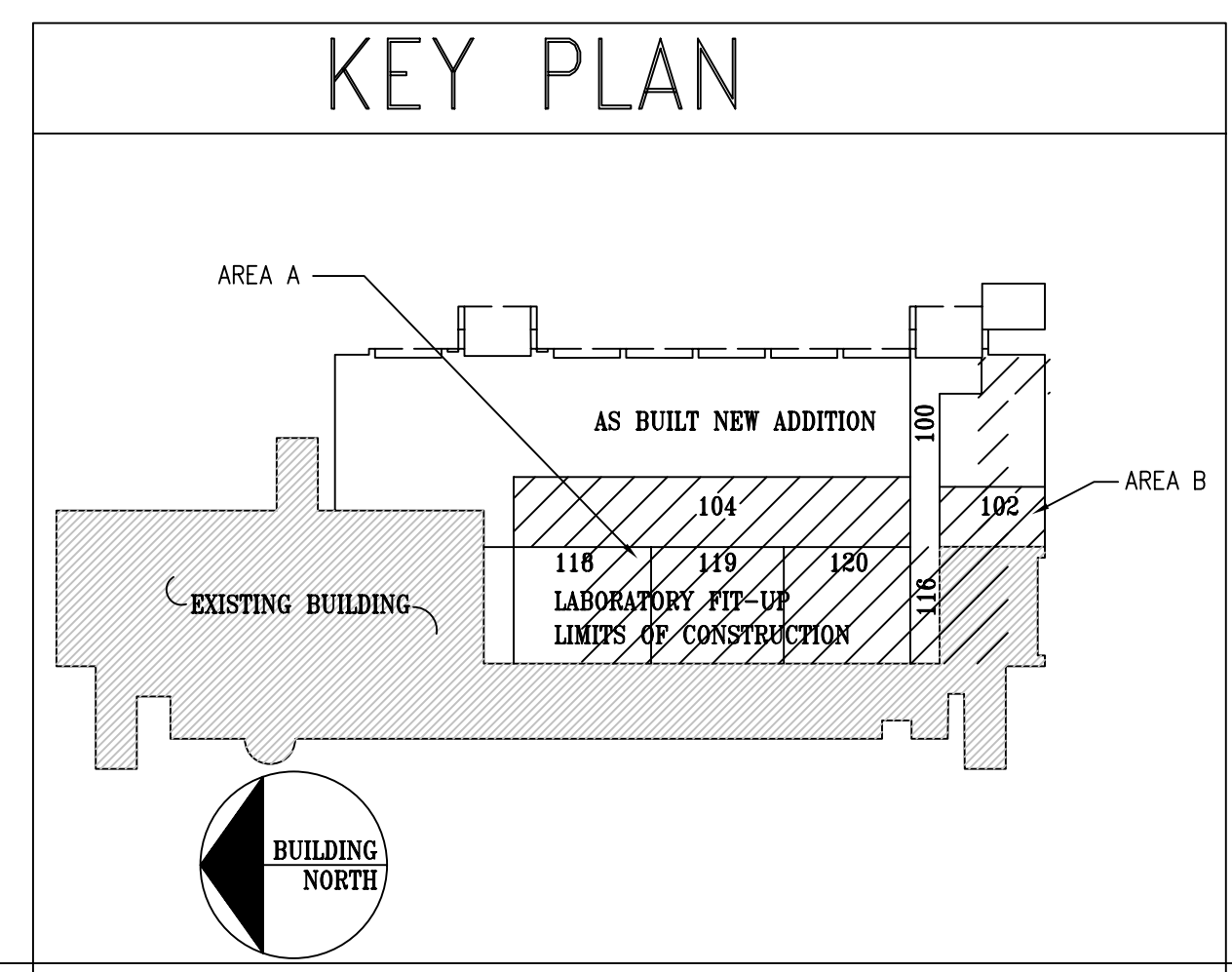
PARTIAL FIRST FLOOR – PLUMBING PLAN AREA A
SCALE: 1" = 1'-0"



PARTIAL FIRST FLOOR – PLUMBING PLAN AREA B
SCALE: 1" = 1'-0"



WASTE AND VENT PIPING DIAGRAM
SCALE: NONE



KEY PLAN

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Gluck Equine
Research Center Renovation
University of Kentucky

PLUMBING PLANS
AND DIAGRAM

RECORD DRAWINGS JUNE 18, 2003
Sherman, Carter, Barnhart PSC
PARTNERS IN ARCHITECTURE
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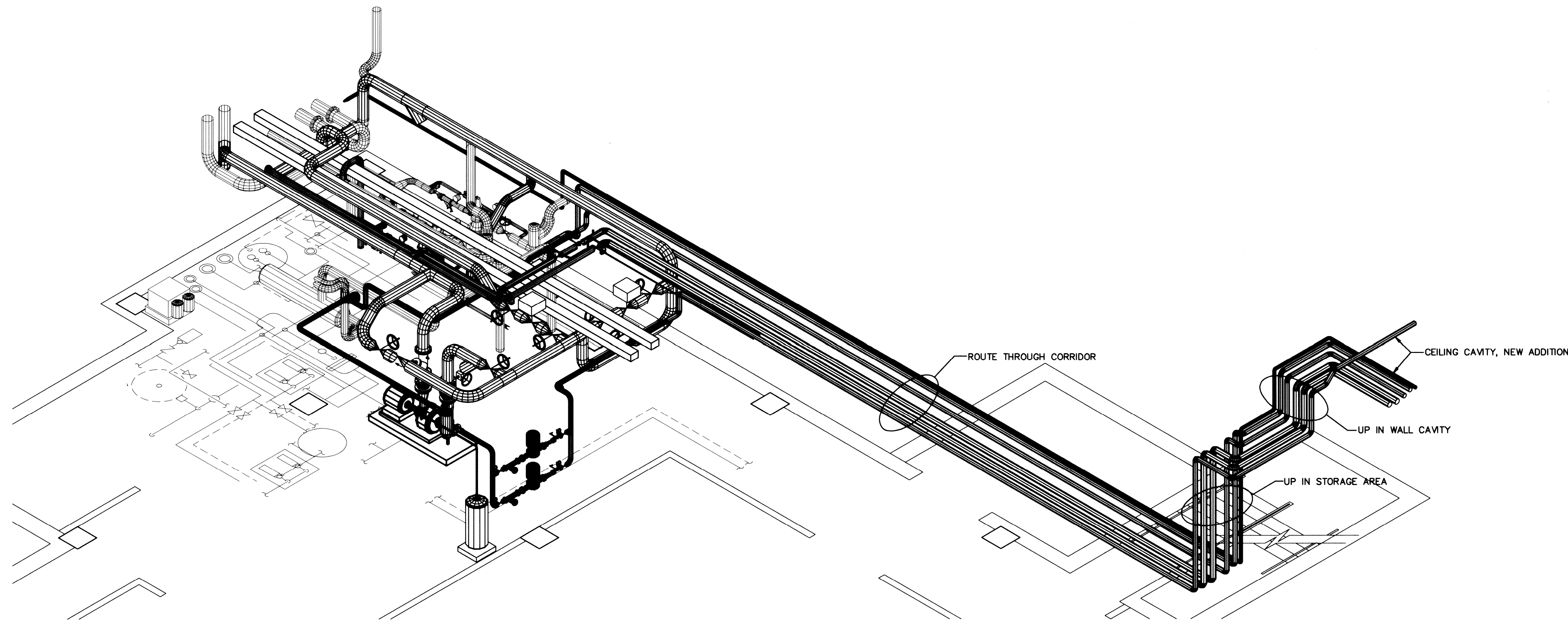
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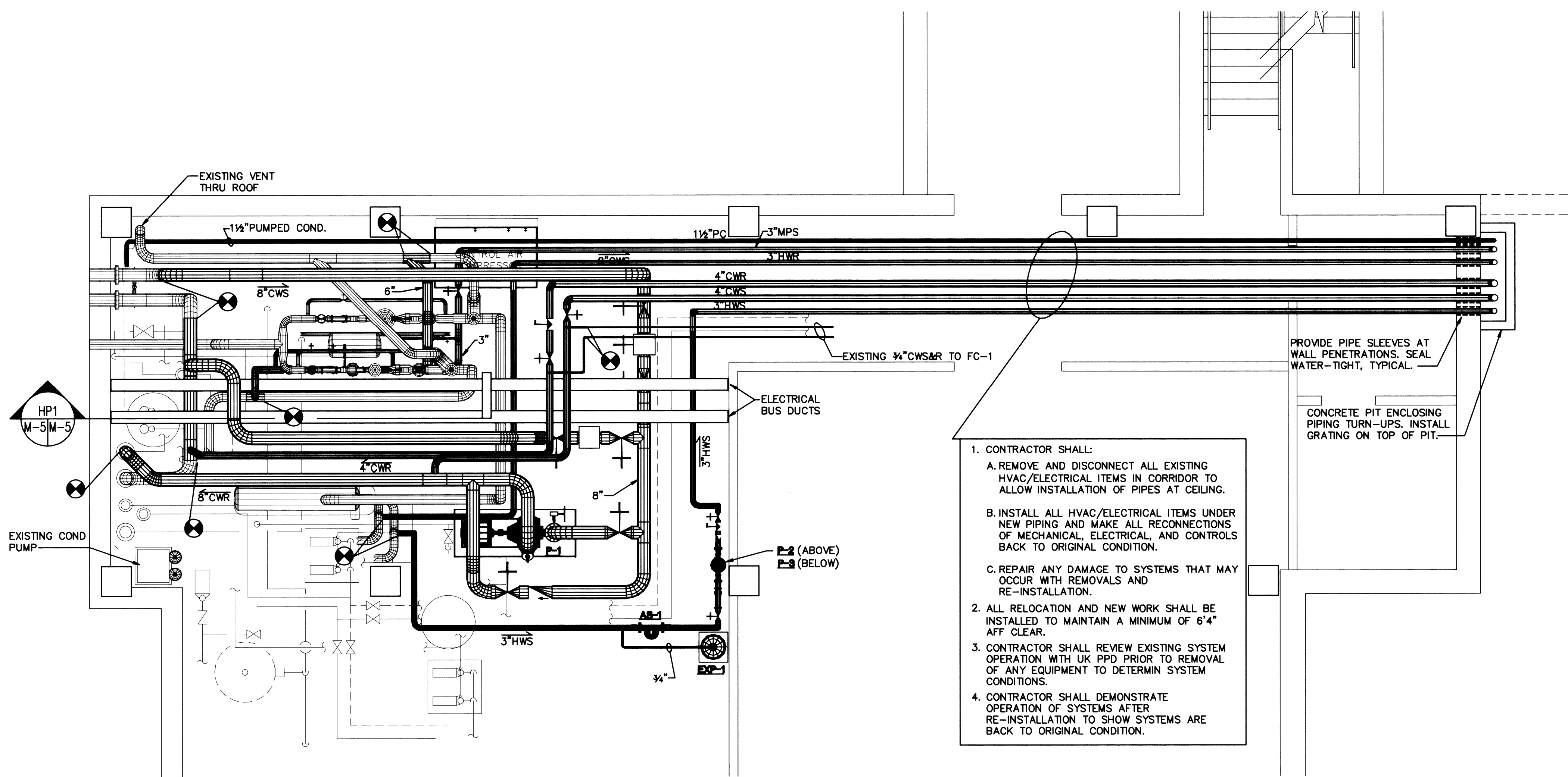
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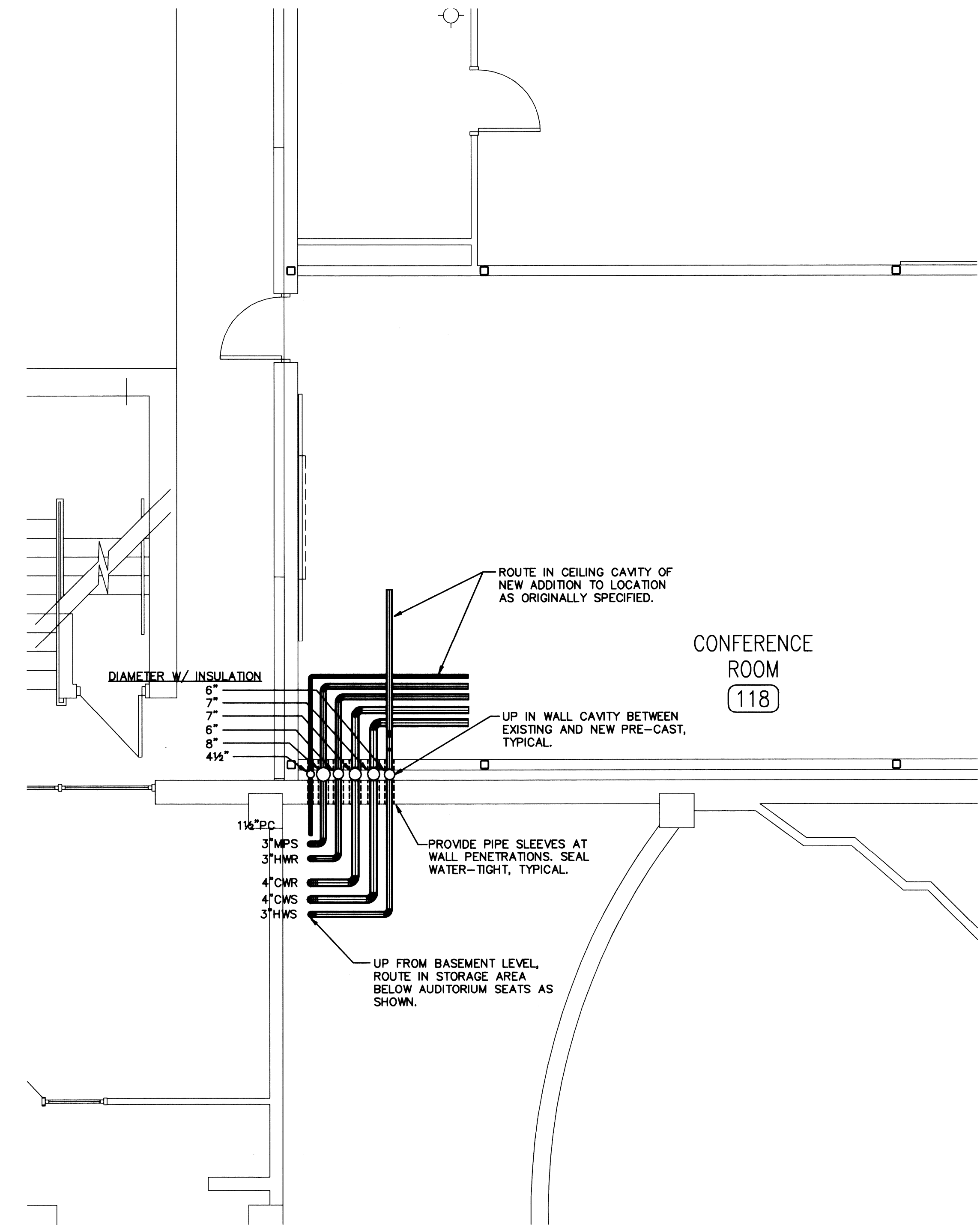


HVAC PIPING VIEW
SCALE: NONE

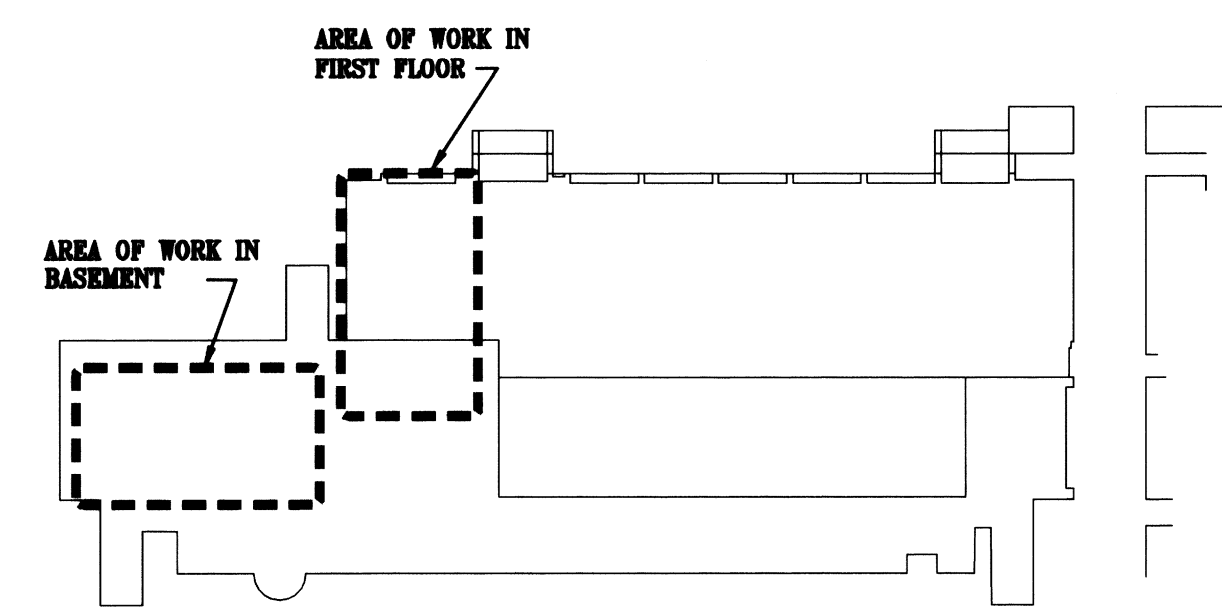


BASEMENT HVAC FLOOR PLAN
SCALE: 1/4" = 1'-0"

1. CONTRACTOR SHALL:
 - A. REMOVE AND DISCONNECT ALL EXISTING HVAC/ELECTRICAL ITEMS IN CORRIDOR TO ALLOW INSTALLATION OF PIPES AT CEILING.
 - B. INSTALL ALL HVAC/ELECTRICAL ITEMS UNDER NEW PIPING AND MAKE ALL RECONNECTIONS OF MECHANICAL, ELECTRICAL, AND CONTROLS BACK TO ORIGINAL CONDITION.
 - C. REPAIR ANY DAMAGE TO SYSTEMS THAT MAY OCCUR WITH REMOVALS AND RE-INSTALLATION.
2. ALL RELOCATION AND NEW WORK SHALL BE INSTALLED TO MAINTAIN A MINIMUM OF 6"4" AFF CLEAR.
3. CONTRACTOR SHALL REVIEW EXISTING SYSTEM OPERATION WITH UK PPD PRIOR TO REMOVAL OF ANY EQUIPMENT TO DETERMIN SYSTEM CONDITIONS.
4. CONTRACTOR SHALL DEMONSTRATE OPERATION OF SYSTEMS AFTER RE-INSTALLATION TO SHOW SYSTEMS ARE BACK TO ORIGINAL CONDITION.



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

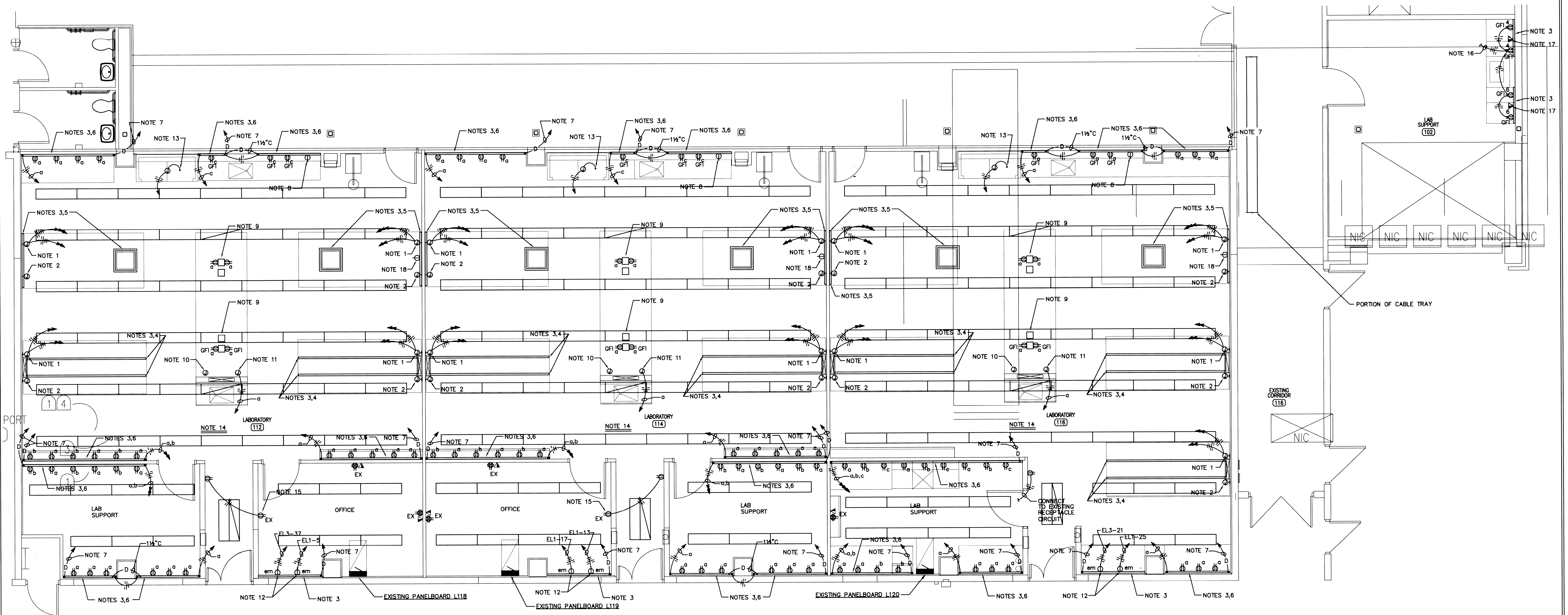


KEY PLAN
SCALE: NONE

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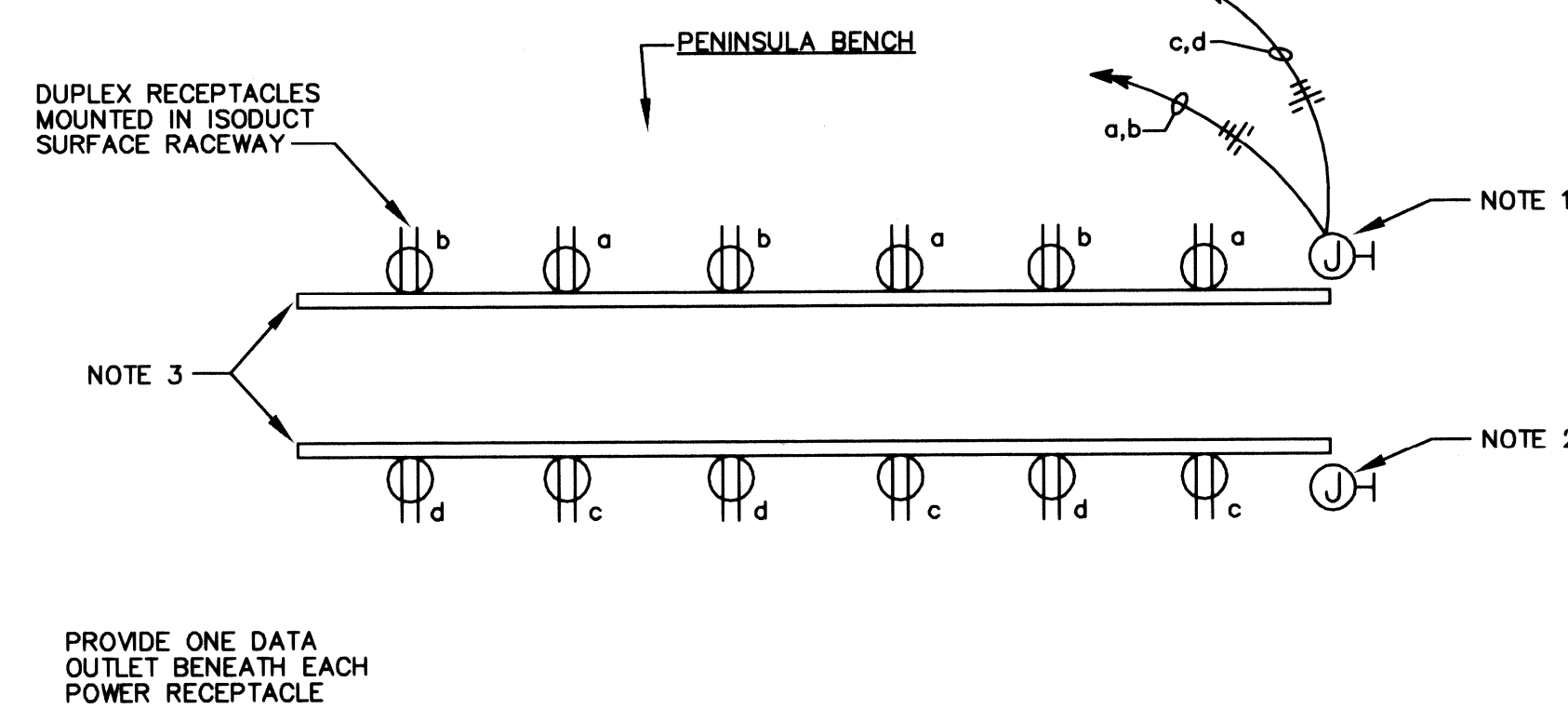
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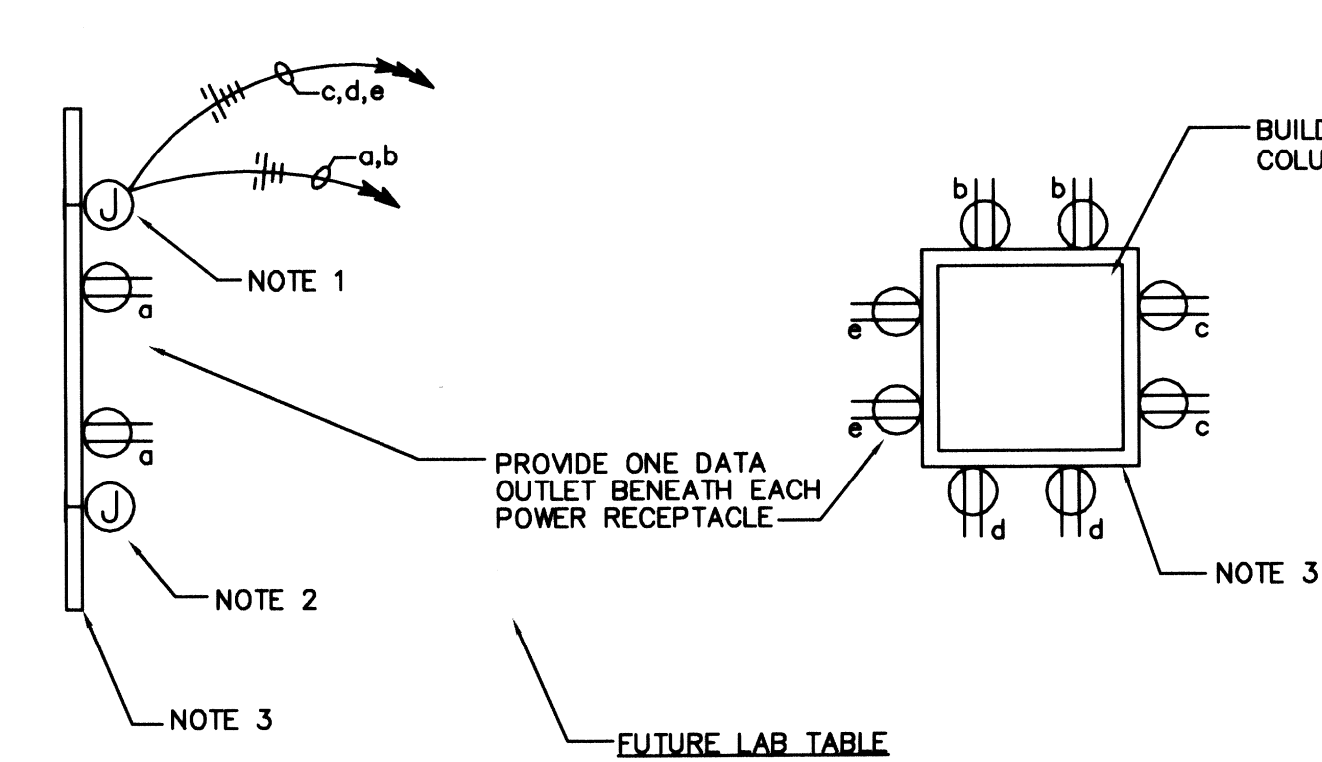
NOTES:

- EXISTING POWER CIRCUIT JUNCTION BOX AT 4'-8" A.F.F. WITH 1 1/2" CONDUIT INTO THE CEILING CAVITY. UTILIZE CONDUIT AND BOX TO ROUTE CIRCUITS INTO POWER PORTION OF SURFACE RACEWAY. PROVIDE RACEWAY AND ALL FITTINGS TO CONNECT BOX TO POWER PORTION OF SURFACE RACEWAY.
- EXISTING DATA CIRCUIT JUNCTION BOX AT 4'-8" A.F.F. WITH 1 1/2" CONDUIT CONNECTED TO CABLE TRAY. THE UNIVERSITY WILL UTILIZE CONDUIT AND BOX TO ROUTE DATA CIRCUITS INTO DATA PORTION OF SURFACE RACEWAY. PROVIDE RACEWAY AND ALL FITTINGS TO CONNECT BOX TO DATA PORTION OF SURFACE RACEWAY.
- TWO COMPARTMENT SURFACE RACEWAY FOR DATA/POWER CIRCUITS. SURFACE RACEWAY SHALL BE WIREMOLD TYPE AL 4800 "ISODUCT" COMPLETE WITH ALL FITTINGS. COORDINATE MOUNTING HEIGHT AND POWER/DATA LOCATIONS WITH LAB CASEWORK DRAWINGS. ISODUCT SHALL BE ENGRAVED WITH THE POWER CIRCUIT PANELBOARD AND CIRCUIT NUMBER AT EACH RECEPTACLE.
- REFER TO PENINSULA BENCH DETAIL A FOR POWER AND DATA OUTLET LOCATIONS AND POWER CIRCUIT ARRANGEMENT.
- REFER TO LAB TABLE DETAIL B FOR POWER AND DATA OUTLET LOCATIONS AND POWER CIRCUIT ARRANGEMENT.
- PROVIDE ONE DATA OUTLET BENEATH EACH POWER RECEPTACLE.
- 1 1/2" CONDUIT WITH PULL STRING TO CABLE TRAY. CONNECT CONDUIT TO DATA COMPARTMENT OF ISODUCT. PROVIDE ALL FITTINGS.
- INSTALL EXISTING 208V, 1P RECEPTACLE IN SURFACE RACEWAY. VERIFY THAT RECEPTACLE SERVED FROM 30/2 BREAKER IN PANELBOARD.
- ONE PEDESTAL OUTLET WITH BACK TO BACK 20 AMP DUPLEX RECEPTACLES AND ONE PEDESTAL OUTLET WITH PROVISIONS FOR BACK TO BACK DATA OUTLET.
- EXISTING DATA CIRCUIT JUNCTION BOX ABOVE CEILING WITH 1 1/2" CONDUIT CONNECTED TO CABLE TRAY. THE UNIVERSITY WILL UTILIZE CONDUIT AND BOX TO ROUTE DATA CIRCUITS INTO ISLAND BENCH. EXTEND ONE 1" CONDUIT FROM BOX TO EACH DATA PEDESTAL OUTLET. ROUTE CONDUIT IN UNBILICAL AND CONCEALED IN BENCH.
- EXISTING POWER CIRCUIT JUNCTION BOX AT CEILING. ROUTE CIRCUITS FROM BOX DOWN UNBILICAL INTO BENCH AND CONNECT TO POWER PEDESTAL OUTLETS.
- 208/230V, 1P, 20A RECEPTACLES CONNECTED TO EMERGENCY PANEL AS INDICATED.
- CONNECT TO PREWIRED FUME HOOD, COORDINATE WITH HOOD INSTALLER.
- ROUTE EACH HOMERUN SHOWN IN THIS ROOM TO THE EXISTING PANELBOARD IN THIS ROOM. HOMERUN ARROWS INDICATE INDIVIDUAL 20 AMP CIRCUITS UNLESS NOTED OTHERWISE. COMBINED CIRCUITS UTILIZE COMMON NEUTRAL AND GROUND CONDUCTORS AS SHOWN. LOWER CASE LETTERS INDICATE CIRCUIT ARRANGEMENT. UTILIZE AVAILABLE CIRCUIT BREAKERS IN PANELBOARD TO SERVE LOADS.
- CONNECT TO EXISTING RECEPTACLE CIRCUIT.
- EXISTING CIRCUITS CP1-4,6 ARE ROUGH-IN AT ISODUCT. CONNECT ISODUCT RECEPTACLES TO THESE CIRCUITS AS INDICATED.
- DATA OUTLET IN ISODUCT. EXTEND ONE 1/2 INCH CONDUIT WITH PULL STRING FROM ISODUCT AND CONNECT TO CABLE TRAY IN CORRIDOR 116.
- INSTALL 25A, 208/230V RECEPTACLE IN ISODUCT. CONNECT RECEPTACLE TO EXISTING CIRCUIT AT THIS LOCATION.

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



PENINSULA BENCH CIRCUIT ARRANGEMENT DETAIL A
SCALE: NONE



LAB TABLE CIRCUIT ARRANGEMENT DETAIL B
SCALE: NONE

20/1	1	2	20/1
20/1	3	4	20/1
20/1	5	6	30/2
20/1	7	8	30/2
20/1	9	10	30/2
20/1	11	12	20/1
20/1	13	14	20/2
20/1	15	16	20/1
20/1	17	18	20/1
20/1	19	20	20/1
20/1	21	22	20/1
20/1	23	24	20/1
20/1	25	26	20/1
20/1	27	28	20/1
20/1	29	30	20/1
20/1	31	32	20/1
20/1	33	34	20/1
20/1	35	36	20/1
20/1	37	38	20/1
20/1	39	40	20/1
20/1	41	42	20/1

EXISTING PANELBOARD "L118"
225A, 208Y/120V, 3ø, 4W
RECESS MOUNT
42 SPACE
UTILIZE AVAILABLE CIRCUIT BREAKERS TO SERVICE LAB LOADS. REVISE PANEL INDEX.

20/1	1	2	20/1
20/1	3	4	20/1
20/1	5	6	20/2
20/1	7	8	20/2
20/1	9	10	30/2
20/1	11	12	20/1
20/1	13	14	20/2
20/1	15	16	20/1
20/1	17	18	20/1
20/1	19	20	20/1
20/1	21	22	20/1
20/1	23	24	20/1
20/1	25	26	20/1
20/1	27	28	20/1
20/1	29	30	20/1
20/1	31	32	20/2
20/1	33	34	20/1
20/1	35	36	20/2
20/1	37	38	20/1
20/1	39	40	20/2
20/1	41	42	20/2

EXISTING PANELBOARD "L119"
225A, 208Y/120V, 3ø, 4W
RECESS MOUNT
42 SPACE
UTILIZE AVAILABLE CIRCUIT BREAKERS TO SERVICE LAB LOADS. REVISE PANEL INDEX.

20/1	1	2	20/1
20/1	3	4	20/1
20/1	5	6	30/2
20/1	7	8	30/2
20/1	9	10	30/2
20/1	11	12	20/1
20/1	13	14	20/2
20/1	15	16	20/1
20/1	17	18	20/1
20/1	19	20	20/1
20/1	21	22	20/1
20/1	23	24	20/1
20/1	25	26	20/1
20/1	27	28	20/1
20/1	29	30	20/1
20/1	31	32	20/2
20/1	33	34	20/1
20/1	35	36	20/2
20/1	37	38	20/1
20/1	39	40	20/2
20/1	41	42	20/2

EXISTING PANELBOARD "L120"
225A, 208Y/120V, 3ø, 4W
RECESS MOUNT
42 SPACE
UTILIZE AVAILABLE CIRCUIT BREAKERS TO SERVICE LAB LOADS. REVISE PANEL INDEX.

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RECORD DRAWINGS JUNE 18, 2003
Sheehan Carter Barnhart
ARCHITECTURE, ARCHITECTURE, CIVIL ENGINEERING
245 HARRISBURG ROAD : LEANING, KY 40364 : PH: 606-241-1351 : FAX: 606-241-8448

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Consulting Engineers

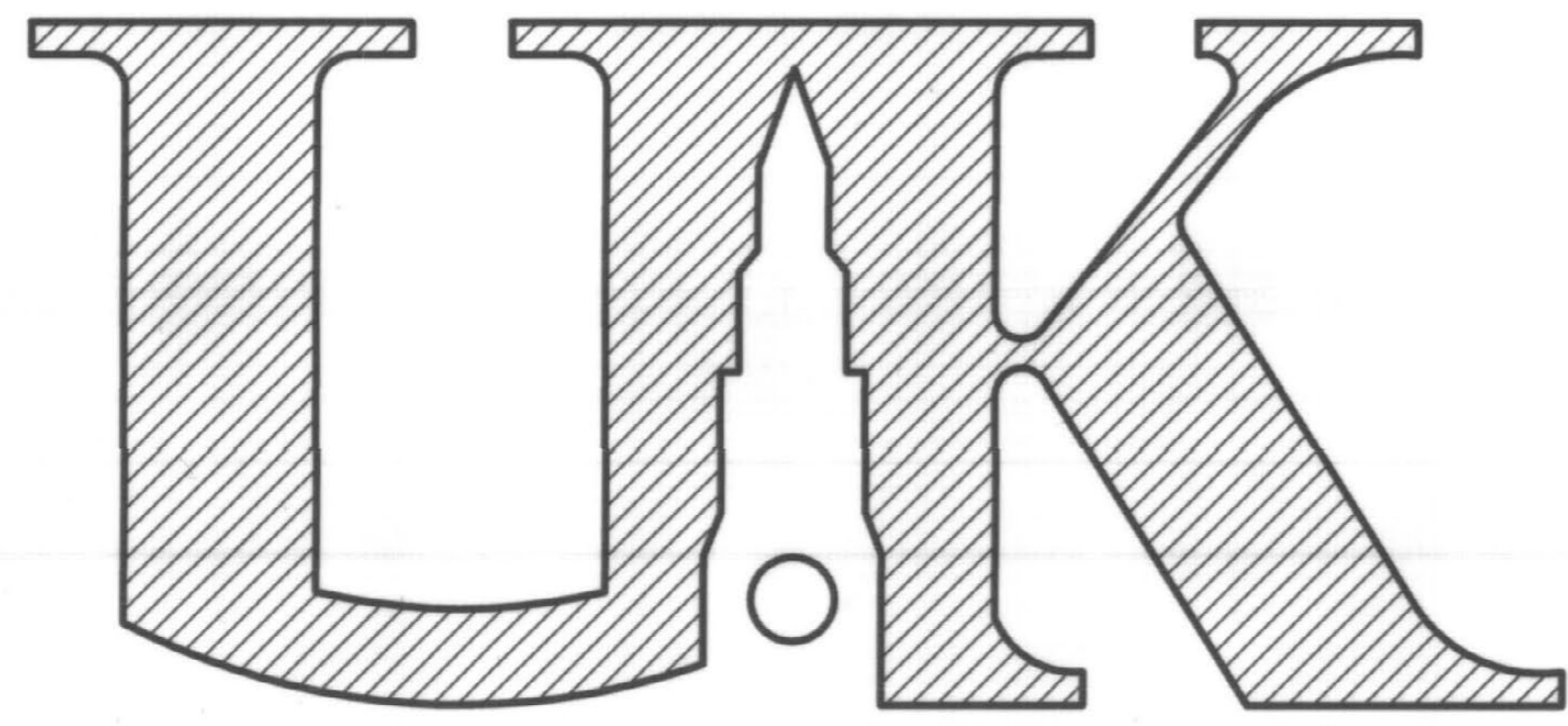
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BY	SMH
DATE	11/21/2001
BY	SMH

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NO.	DESCRIPTION

SHEET
E-3A

GLUCK EQUINE RESEARCH CENTER LABORATORY FIT-UP



University of Kentucky
Lexington, Kentucky

OWNER:

The University of Kentucky

UK Project No. 2005.0
UK Contract No.

Date: November 12, 2002

ABBREVIATIONS				GENERAL NOTES																																										
A AB & A/C ACOUS ACT ADA ADJ ADH AFF AGG AHU ALUM ANCH AP APPROX ASSY AUTO ATTEN.	At Anchor Bolt Ang Air Conditioning Acoustical Actual Americans with Disabilities Act Adjust, Adjustable Adhesive Above Finish Floor Aggregate Air Handling Unit Aluminum Anchor Access Panel Approximate Assembly Automatic Attenuation	B BD BTWN BEY BIT BLK BLKG BM B.O. BOT or BTM BUR	Board Between Beyond Bituminous Block Blocking Beam, Bench Mark Bottom of Bottom Built Up Roofing	C CAB CB C/C CEM CER CF CFI CHAN CI CJ CLG CLR CLS CLR CMU COL COND COND CONST CONT CONTR CORRUG CR CSG CTS CJ CULV CW CY	Cabinet Catch Basin, Chalkboard Center to Center (Same meaning as OC) Cement Ceramic Cubic Feet Contractor Furnished and Installed Channel Cast Iron Control Joint Cement Clear Casting Cement Masonry Unit Column Concrete Condition, Condenser, Condensate Continuous Construction Contractor Corrugated Cold Rolled Casing Countersink Cubic Culvert Cold Water, Clockwise Cubic Yard	D DBL DEP DET DF DA DIM DN DO DS DWG(S)	Double Depressed Detail Drinking Fountain Diameter Dimension Down Ditto Downspout Drawing(s)	E EA EJ EL or ELV ELEC EMER ENCL ENT EQ EQ/UV ESMT EW EWC EXIST EXP EXT	Each Expansion Joint Elevation Electric, Electrical Emergency Enclosure Entrance Equal Equivalent Easement Each Way Electric Water Cooler (see mech dwgs) Existing Expansion Exterior	F FAB FC FD FON FE FEC FFE FH FIN FL FLASH FLEX FRT FTC FURR FV G GALV GB GEN GF CMU GI GFI GL GLUE LAM GND GR GST GYP	Fabricate Fire Code Floor Drain (see mech dwgs) Foundation Fire Extinguisher Fire Extinguisher Cabinet Finished Floor Elevation Flat Head Finish, Finished Floor Flashing Flexible Fire Retardant-Treated Footing Furring Field Verify Gauge Galvanized Grab Bar Generator Ground Face Conc. Mas. Unit Galvanized Iron Ground Fault Interrupt Glass, Glazing Glu-Laminated Ground Grade Glazed Structural Tile Gypsum	H H HARD HB HC HD BD HDR HDWE HD WD HEX HT HQL HM HORIZ HP HTC HTR HW	High Hardened Hose Bib Hollow Core Hard Board Handicapped Header Hardware Hardwood Hexagonal Height Hollow Hollow Metal Horizontal Horsepower Heating Heater Hot Water, Hard White	I ID IF INCL INSUL INT INV	Inside Diameter Included Insulation Interior Invert	J JB JST JT	Junction Box Joist Joint	K KBC	Kentucky Building Code	L L LAM LF LH LLV LOC LT LWT	Angle, Long Laminar Light Fixture, Linear Feet Left Hand Long Leg Vertical Location Light Lightweight	M M MATS MATL MAX MB MC MDO MECH MED MTL MFR MH MIN MISC ML & P MO MT MTD MTG MULL	Masonry Material Maximum Marker Board Miscellaneous Channel Medium Density Overlay Mechanical Medium, Medicine Metal Manufacturer Manhole Minimum, Minute Miscellaneous Metal Lath and Plaster Masonry Opening Mount Mounted Mounting Mullion	N NA NET NIC NO, or # NOM NTS OC OD OF OFI OP-CI OH OPNG OPP	Not Applicable Means Exact Dimension Required Not in Contract Number Nominal Not to Scale On Center Outside Diameter Outside Face Owner Furnished and Installed Owner Furnished, Contractor Installed Overhead Opposite	P PART PART BD PASS P/C PERF PERM PERP PF CMU PH PLAS PLUMB PLYWD POL POLY CARB PREFAB PROJ PR PSMB PT PVC PVMT PWG +/-	Partition Particle Board Passage Precast Poured Concrete Perforated Perimeter Perpendicular Prefaced Conc. Mas. Unit Phase Plaster Plumbing Plywood Polished Polycarbonate Sheet Prefabricated Project, Projected Pipe Pencil Sharpener Block Point, Pressure Treated Polyvinyl Chloride Pavement Polished Wire Glass Plus or Minus	Q QT	Quarry Tile	R R R or RAD RCP RD REBAR RECIRC REF REFR REIN REQD RET RESIL RH RO ROW or R/W	Riser, Radius Reinforced Concrete Pipe Roof Drain Reinforcing Bar Recirculate Reference, Refer Refrigerator Reinforce, Reinforced, Reinforcing Return Resilient Right Hand, Round Head Rough Opening Right of Way	S SC SCHD SECT SEP SF SHEATH SHT SIM S.M. SRA SPEC SPM SQ SS STA STD STL STOR STRUCT SYMP	Solid Core Schedule Section Separate, Separation Square Feet, Split Face Sheathing Sheet Similar Shaped Metal Space(s) Specifications Single-ply Membrane Square Stainless Steel Station Standard Steel Storage Structural Suspended Symmetrical	T T TB TC TCE TDS TEL TFF T & G THK THRESH T.O. TOC TOL TOS TS TOW TYP	Tread, Thick Tackboard Top of Curb Top of Curb Elevation Turned Down Slab Telephone Top of Finishing Elevation Tongue and Groove Thickness Threshold Top of Top of Concrete Tollet Top of Steel Structural Steel Tubing Top of Wall Typical	U UG UL UNFIN UNO	Underground Underwriters Laboratory Unfinished Unless Noted Otherwise	V VAC VB VCT VFT VFI	Vacuum Vapor Barrier Vinyl Composition Tile Vertical Verify in Field	W W WWF	Wide Welded Wire Fabric	X X	By	Y YD	Yard	G1 (NIC) - MEANS NOT IN CONTRACT. ITEM TO BE PROVIDED BY OWNER AND INSTALLED BY OWNER. G2 DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. SHOULD DISCREPANCY OCCUR CONTACT ARCH. IMMEDIATELY FOR CLARIFICATION. G3 ALL CONCEALED WOOD BLOCKING, NAILERS AND PLYWOOD SHALL BE FIRE-RETARDANT TREATED (F.R.T.) WHERE BLOCKING IS INDICATED OR REQ'D. WITHIN THE BUILDING ENVELOPE. G4 ALL CHANGES IN FLOOR FINISHES SHALL OCCUR AT DOOR THRESHOLDS - TYPICAL. G5 PARTITION TYPES SHALL MAINTAIN THEIR RESPECTIVE SEPARATION RATING (IF ANY) FOR FULL HEIGHT. ALL MECH., ELEC. AND PLUMBING PENETRATIONS SHALL BE SEALED / SAVED / DAMPERED AS REQUIRED TO COMPLY WITH APPLICABLE CODES. G6 REFER TO SPECIFIED FIRESTOPPING MEASURES REQUIRED AT ALL RATED WALL ASSEMBLIES AND AS FOLLOWS: PROVIDE THE FOLLOWING CLOSURE MATERIALS AT TOP OF INTERIOR MASONRY AND METAL STUD WALL PARTITIONS: (a) FULL-HEIGHT NON-RATED WALLS: FILL VOIDS WITH BATT INSULATION. (b) RATED FULL HEIGHT WALLS: FILL VOIDS WITH FIRE SAFING AND INSTALL BACKER ROD AND FIRE RATED SEALANT ON EACH SIDE OF WALL. (c) FULL HEIGHT UNRATED ACCESSORY USE SEPARATION PARTITIONS: FILL VOIDS WITH INSULATION AND INSTALL BACKER ROD AND SEALANT ON EACH SIDE OF WALL.

SYMBOLS

- (X) ROOM NUMBER
- (X) TAG NOTE
- (A) COLUMN LINE IDENTIFICATION
- (A) DETAIL OR ENLARGED PLAN
- (A) EXTERIOR OR INTERIOR ELEVATIONS
- (A) PARTIAL SECTION OR DETAILS
- (A) WALL OR BUILDING SECTION
- (A) WALL / PARTITION DESIGNATION:
FO - UNRATED ACCESSORY USE SEPARATION WALL
- (A) EXIT LIGHT - SEE ELECTRICAL
- (A) ACCENT LIGHTING - SEE ELECTRICAL
- (A) 2x4 LIGHT FIXTURE - SEE ELECTRICAL
- (A) 1x4 LIGHT FIXTURE - SEE ELECTRICAL
- (A) HVAC STRIP SUPPLY - SEE MECHANICAL
- (A) HVAC SUPPLY - SEE MECHANICAL
- (A) HVAC RETURN - SEE MECHANICAL

NOTE:
INFORMATION SHOWN ON THIS SHEET IS OFFICE STANDARD AND ALL MAY NOT BE USED IN THIS PROJECT.

INDEX TO DRAWINGS

COVER ABBREVIATIONS, SYMBOL LEGEND, GENERAL NOTES AND PARTITION TYPES

A-1 FIRST FLOOR PLAN AND REFLECTED CEILING PLAN

F-1 FIRST FLOOR FIRE PROTECTION PLAN

P-1 PLUMBING PLANS AND DIAGRAM

M-1 FIRST FLOOR HVAC PLAN

M-2 HVAC DETAILS

M-3 HVAC CONTROLS

E-1 LIGHTING PLANS AND LIGHT FIXTURE SCHEDULE

E-2 POWER PLANS AND DETAILS

DRAWINGS L-1, L-2, AND L-3 ARE INCLUDED WITHIN THIS BID SET FOR GENERAL CONTRACTOR COORDINATION. THE CASEWORK, ACCESSORIES AND CASEWORK INSTALLATION SHALL BE PROVIDED UNDER SEPARATE CONTRACT. THIS BID SHALL INCLUDE THE UTILITY HOOKUP FOR CASEWORK: PLUMBING, EXHAUST, ELECTRICAL AND OTHER UTILITIES TO COMPLETE THE INSTALLATION OF THE LABORATORY CASEWORK AND ACCESSORIES.

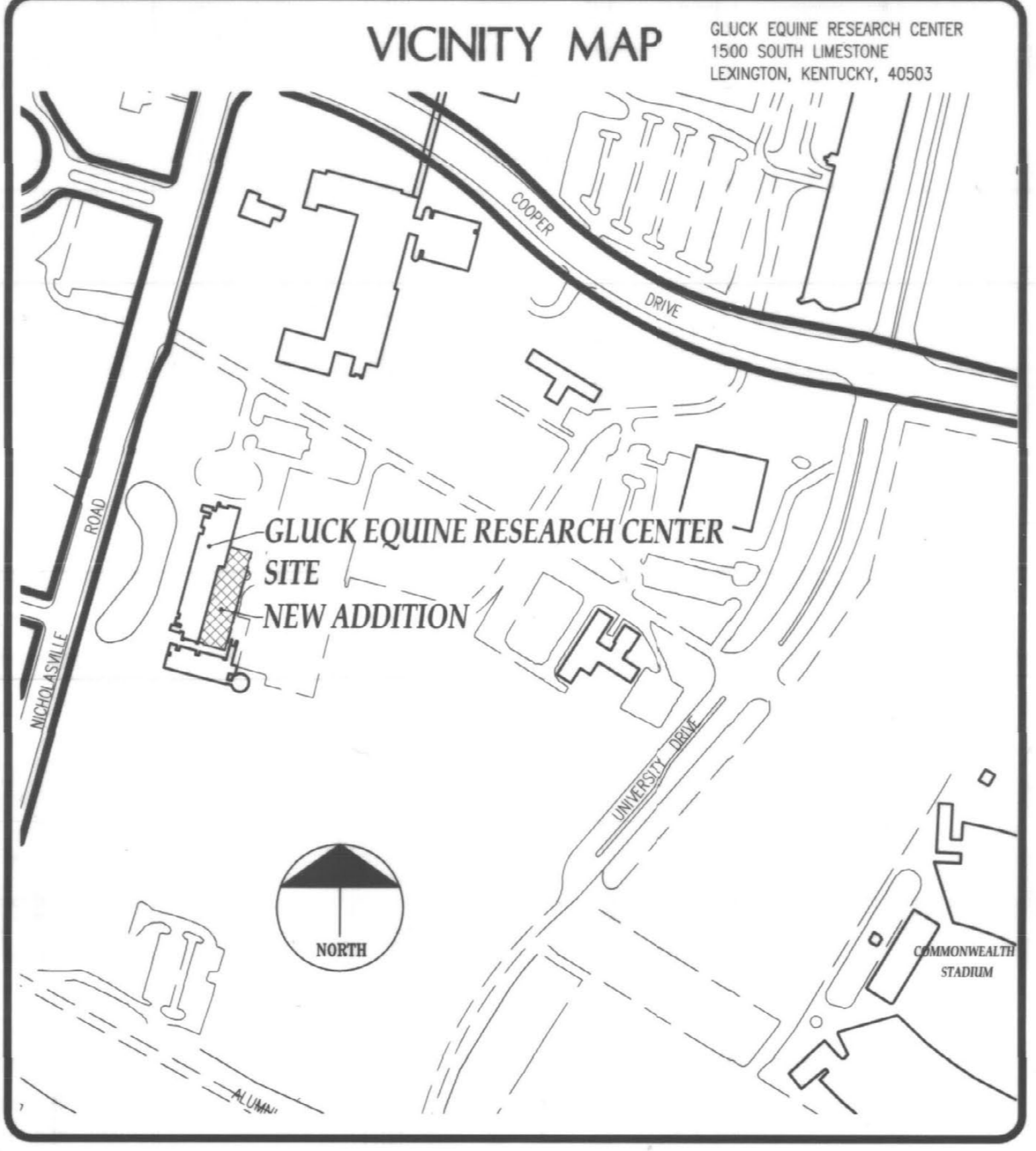
L-1 LABORATORY CASEWORK AND GENERAL NOTES

L-2 LABORATORY FURNISHINGS PLAN

L-3 LABORATORY ELEVATIONS AND DETAILS

BUILDING CODE SUMMARY

USE GROUP:	KENTUCKY BUILDING CODE : 2002 EDITION EXISTING BUILDING : B- BUSINESS (RESEARCH) NEW CONSTRUCTION : B- BUSINESS (RESEARCH)
CONST. TYPE:	EXISTING BUILDING: 2A, PROTECTED, NONCOMBUSTIBLE NEW CONSTRUCTION: 2A, PROTECTED, NONCOMBUSTIBLE ROOF ASSEMBLY: STEEL BEAM AND DECK ONE HOUR RATED STEEL COLUMNS: ONE HOUR RATED
FIRE PROTECTION:	EXISTING BUILDING: FULLY SPRINKLED NEW CONSTRUCTION: FULLY SPRINKLED
ALLOWABLE HEIGHT:	5 STORIES / 65 FEET (Table 503)
ALLOWABLE INCREASE:	1 STORY / 20 FEET (Section 504.2)
TOTAL ALLOWABLE HEIGHT:	6 STORIES / 85 FEET
ACTUAL HEIGHT EXISTING BUILDING:	4 STORIES / 71 FEET
ACTUAL HEIGHT NEW CONSTRUCTION:	1 STORY / 18 FEET
ALLOWABLE AREA:	37,500 SQUARE FEET PER FLOOR (Table 503)
AREA INCREASE:	75,000 SQUARE FEET (200% INCREASE FOR AUTOMATIC SPRINKLER PER 506.3)
TOTAL ALLOWABLE AREA PER FLOOR:	112,500 SQUARE FEET
MAXIMUM ALLOWABLE AREA PER FLOOR:	337,500 SQUARE FEET (PER 503.3)
FIRST FLOOR AREA EXISTING BUILDING:	15,210 SQUARE FEET
FIRST FLOOR AREA NEW CONSTRUCTION:	10,265 SQUARE FEET
TOTAL FIRST FLOOR AREA:	25,475 SQUARE FEET
EXISTING BUILDING SECOND FLOOR AREA:	8,840 SQUARE FEET
EXISTING BUILDING THIRD FLOOR AREA:	15,200 SQUARE FEET
EXISTING BUILDING FOURTH FLOOR AREA:	15,200 SQUARE FEET
TOTAL BUILDING GROSS FLOOR AREA:	64,715 SQUARE FEET



Sherman Carter Barnhart PSC

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SCR Project No 0146A UK GLUCK EQUINE RESEARCH CENTER LABORATORY FIT-UP

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SET NO.

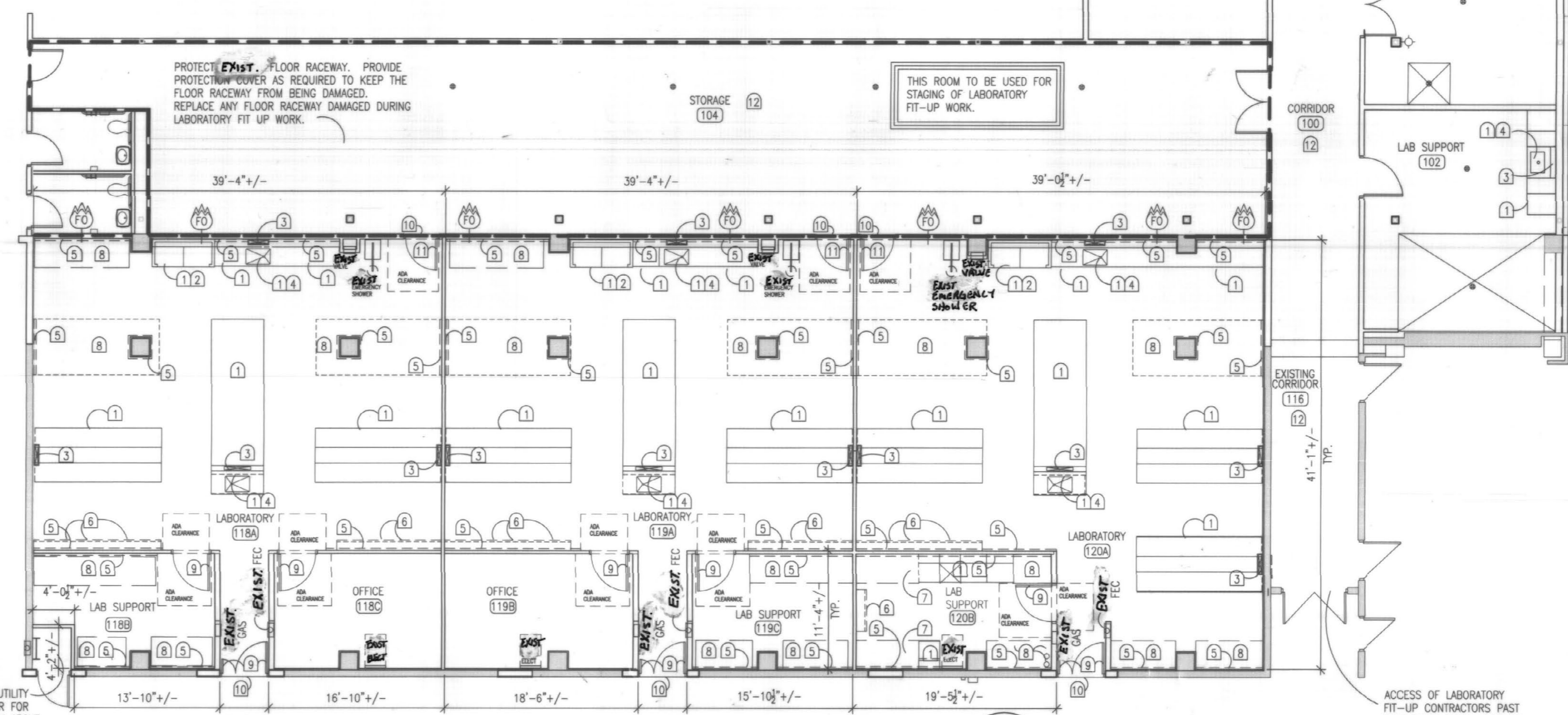
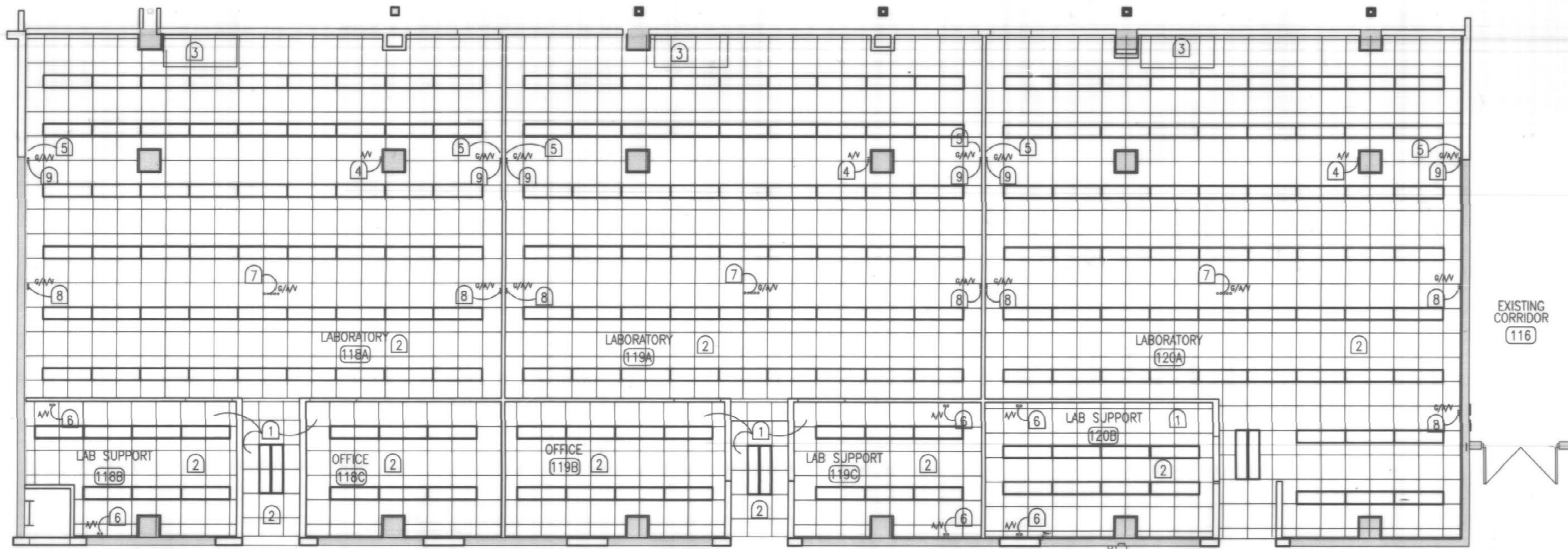
EXIST. LOADING DOCK IS AVAILABLE FOR DELIVERIES. COORDINATE USE OF LOADING DOCK TO AVOID CONFLICT WITH OWNER SCHEDULED DELIVERIES.

EXIST. DUMPSTER SHALL NOT BE USED BY CONTRACTORS FOR ANY PURPOSE.

LIMIT BUILDING ACCESS TO THIS ENTRY FOR LABORATORY FIT-UP WORK. PROTECT ALL EXIST. FINISHES. REPAIR/REPLACE ITEMS DAMAGED DURING LABORATORY FIT-UP WORK.

PROTECT EXIST. FLOOR RACEWAY. PROVIDE PROTECTION COVER AS REQUIRED TO KEEP THE FLOOR RACEWAY FROM BEING DAMAGED. REPLACE ANY FLOOR RACEWAY DAMAGED DURING LABORATORY FIT-UP WORK.

THIS ROOM TO BE USED FOR STAGING OF LABORATORY FIT-UP WORK.



USE OF EXIST. UTILITY CLOSET AND LADDER FOR ACCESS TO CATWALK ABOVE LABORATORY 118 SHALL ONLY BE ALLOWED WITH PRIOR OWNER APPROVAL.

ACCESS OF LABORATORY FIT-UP CONTRACTORS PAST THIS POINT SHALL ONLY BE ALLOWED WITH PRIOR OWNER APPROVAL.

GENERAL NOTES

1. THE BOTTOM OF ALL ACOUSTICAL CEILING ASSEMBLIES SHALL BE 9'-4" A.F.F.
2. (180) QUANTITY OF LIGHT FIXTURES TYPE "A" SHALL BE DELIVERED TO THE GENERAL CONTRACTOR FROM BURCHFIELD AND THOMAS, FOR INSTALLATION BY THE GENERAL CONTRACTOR. 27 ADDITIONAL NEW LIGHT FIXTURES TYPE "A" ARE REQUIRED. MATERIALS AND INSTALLATION BY GENERAL CONTRACTOR.
3. PROVIDE 5" BATT. INSUL. OVER ALL LAY- IN ACOUSTICAL CEILING SYSTEM. CUT TO FIT CLG TILE. ADHERE TO BACK OF CEILING TILE.

GRAPHICS LEGEND

- [Symbol] LIGHT FIXTURE, SEE ELECTRICAL
- [Symbol] ACOUSTICAL TILE AND GRID
- [Symbol] GAS/ AIR/VAC., SEE MECHANICAL
- [Symbol] AIR/VAC., SEE MECHANICAL

TAG NOTES

1. NEW VAV AND DUCTWORK ABOVE, SEE MECHANICAL. TIE INTO EXIST. DUCT STUB.
2. 2X2 VINYL FACED ACOUST CEILING TILE WITH GRID, REFER TO SPECIFICATIONS
3. INSTALL OWNER PROVIDED HOOD INTO STUBBED EXHAUST DUCT. CONCEAL DUCT CONNECTION WITH OWNER PROVIDED SHROUD.
4. EXIST. CAPPED AIR/VAC UTILITY STUBS ABOVE CEILING FOR FUTURE CASEWORK TO REMAIN.
5. EXIST. ELECTRICAL JUNCTION, SEE ELECTRICAL
6. EXIST. AIR & VAC STUBBED OUT 10'-0" A.F.F. W/SHUT-OFF VALVES TO REMAIN, FOR FUTURE BIO-SAFETY CABINET
7. EXIST. GAS/AIR/VAC, WATER UTILITY STUBS 10'-0" A.F.F., SEE MECHANICAL.
8. EXIST. GAS/AIR/VAC UTILITY STUBS 10'-0" AFF FOR CASEWORK.
9. EXIST. GAS/AIR/VAC UTILITY STUBS ABOVE CEILING CAPPED FOR FUTURE USE, TO REMAIN.

CEILING PLAN

1/8"=1'-0" B



GENERAL NOTES

1. PROVIDE VCT OVER FLOOR LEVELING COMPOUND, UNPREPARED CONCRETE SLABS AND PREPARED EXISTING CONCRETE SLABS AT ROOMS 100, 104, 116, 118A,B,C, 119A,B,C, AND 120A,B.
2. PROVIDE (2) COATS OF FINISH PAINT AT ALL PRIMED WALLS IN ROOMS 118A,B,C, 119A,B,C, AND 120A,B, INCLUDING AREAS TO BE CONCEALED BY CASEWORK. WALL PAINT TO EXTEND 6" ABOVE FINISH ELEVATION OF CEILING ASSEMBLIES.
3. REFER TO L DRAWINGS AND M&E DRAWINGS FOR CASEWORK, CASEWORK UTILITY AND CASEWORK ELECTRICAL INSTALLATION.
4. PROVIDE AN ALLOWANCE OF 50 CUBIC FEET OF INSTALLED FLOOR LEVELING COMPOUND TO BE USED AT ROOMS 118A,B,C, 119A,B,C, AND 120A,B. PROVIDE FLOOR LEVELING UNDERLAYMENT PER "ARDEX, INC. SYSTEM #K-15 (1-412-264-4240), OR EQUAL AS REQUIRED UNDER SCHEDULED FLOOR FINISH OVER EXISTING CONCRETE TO ACHIEVE F.F.E. MAX. SLOPE 1/4"/10'-0". REFER TO VCT SPECIFICATIONS FOR FLOOR PREPARATION REQUIREMENTS FOR VCT AT THE ROOMS LISTED ABOVE AS WELL AS OTHER ROOMS SPECIFIED TO RECEIVE VCT.
5. FLOOR FINISH AT LABORATORIES TO BE VCT ON ALL EXPOSED SLABS AND UNDER ALL CASEWORK.
6. PROVIDE VINYL BASE AT ALL WALLS AND LABORATORY CASEWORK.
7. ALL EXISTING CONSTRUCTION (I.E. DOORS, FRAMES, PRIMED WALLS, ETC.) TO BE PROTECTED. ANY DAMAGED EXIST. ITEMS SHALL BE REPAIRED, TO THE SATISFACTION OF THE ARCHITECT, TO NEW CONDITION.
8. ACCESS OF BUILDING IS LIMITED TO ROOMS 100, 102, 104, 116, 118A,B,C, 119A,B,C, AND 120A,B. REFER TO M&E DOCUMENTS FOR UTILITY/ELECTRICAL WORK WHICH IS OUTSIDE THE LIMITS OF THE ABOVE REFERENCED ROOMS. ACCESS TO ANY ADDITIONAL AREAS SHALL REQUIRE APPROVAL PRIOR TO ACCESS.

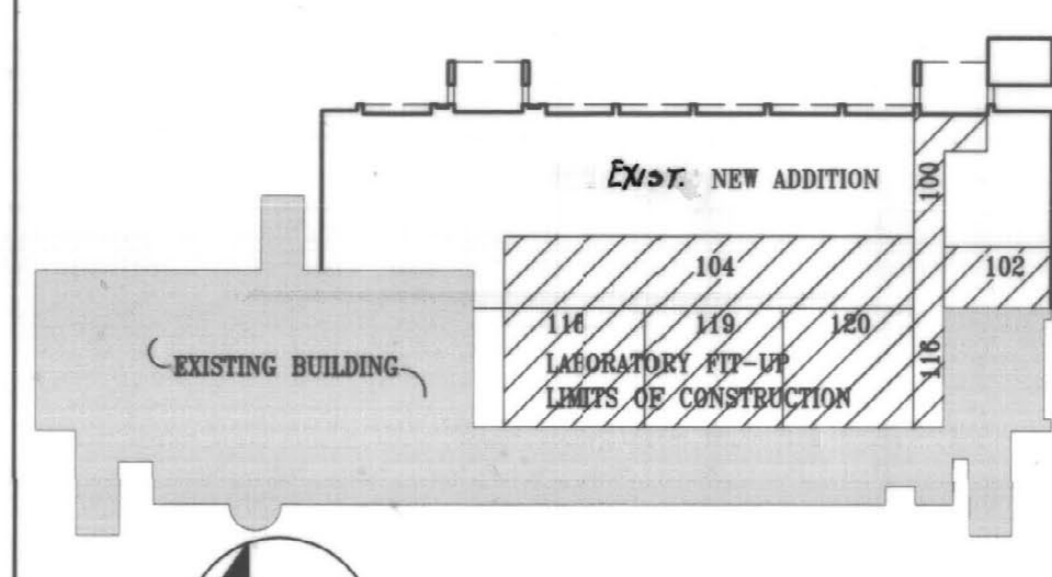
TAG NOTES FLOOR PLAN

1. LABORATORY CASEWORK WITH UTILITIES, SEE L-DRAWINGS AND M&E DRAWINGS.
2. LABORATORY HOOD, SEE L-DRAWINGS AND M&E DRAWINGS.
3. LABORATORY UTILITY UMBILICAL, SEE L-DRAWINGS AND M&E DRAWINGS.
4. LABORATORY SINK, SEE L-DRAWINGS AND M&E DRAWINGS.
5. LABORATORY WALL MOUNTED ELECTRICAL RACEWAY, SEE L-DRAWINGS AND M&E DRAWINGS.
6. LABORATORY WALL MOUNTED ADJUSTABLE SHELVES, SEE L-DRAWINGS AND M&E DRAWINGS.
7. FUTURE OWNER PROVIDED AND INSTALLED BIO-SAFETY CABINET, SEE L-DRAWINGS AND M&E DRAWINGS.
8. FUTURE OWNER PROVIDED AND INSTALLED FLOOR MOUNTED EQUIPMENT, SEE L-DRAWINGS AND M&E DRAWINGS.
9. FIELD FINISH WOOD DOOR - BOTH SIDES. SEE SPEC. 09900. PAINT HOLLOW METAL FRAME.
10. ABUTT NEW VCT TO EXIST. VCT. PROVIDE CLEAN, STRAIGHT INSTALLATION. MODIFY EXIST. VCT AT DOOR AS REQUIRED TO PROVIDE FINISHED APPEARANCE. CONCEAL JOINT BELOW CLOSED DOOR.
11. PAINT HOLLOW METAL DOOR AND FRAME - BOTH SIDES, SEE SPEC 09900.
12. PROVIDE VCT AND VINYL BASE. EXISTING FINISHES IE CEILINGS, PAINTED WALLS, FINISHED DOORS, ETC. TO REMAIN. PROTECT ALL EXISTING FINISHES DURING NEW WORK AND REPAIR ANY ITEMS DAMAGED DURING NEW WORK TO MATCH ORIGINAL EXIST. CONDITION.

GRAPHICS LEGEND

- [Symbol] INDICATES EXISTING WALL
- [Symbol] INDICATES EXISTING WALL
- [Symbol] INDICATES EXIST. DOOR ASSEMBLY
- [Symbol] INDICATES EXISTING DOOR ASSEMBLY
- [Symbol] INDICATES UN-RATED ACCESSORY USE SEPARATION. ALL PENETRATIONS AT THIS WALL WILL BE SEALED TO PREVENT THE PASSAGE OF SMOKE.

KEY PLAN



Gluck Equine Research Center
Laboratory Fit-Up
University of Kentucky

FLOOR PLAN, PLAN,
REFLECTED CEILING PLAN,
AND NOTES

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FIRST FLOOR PLAN
AND ENLARGED PLANS

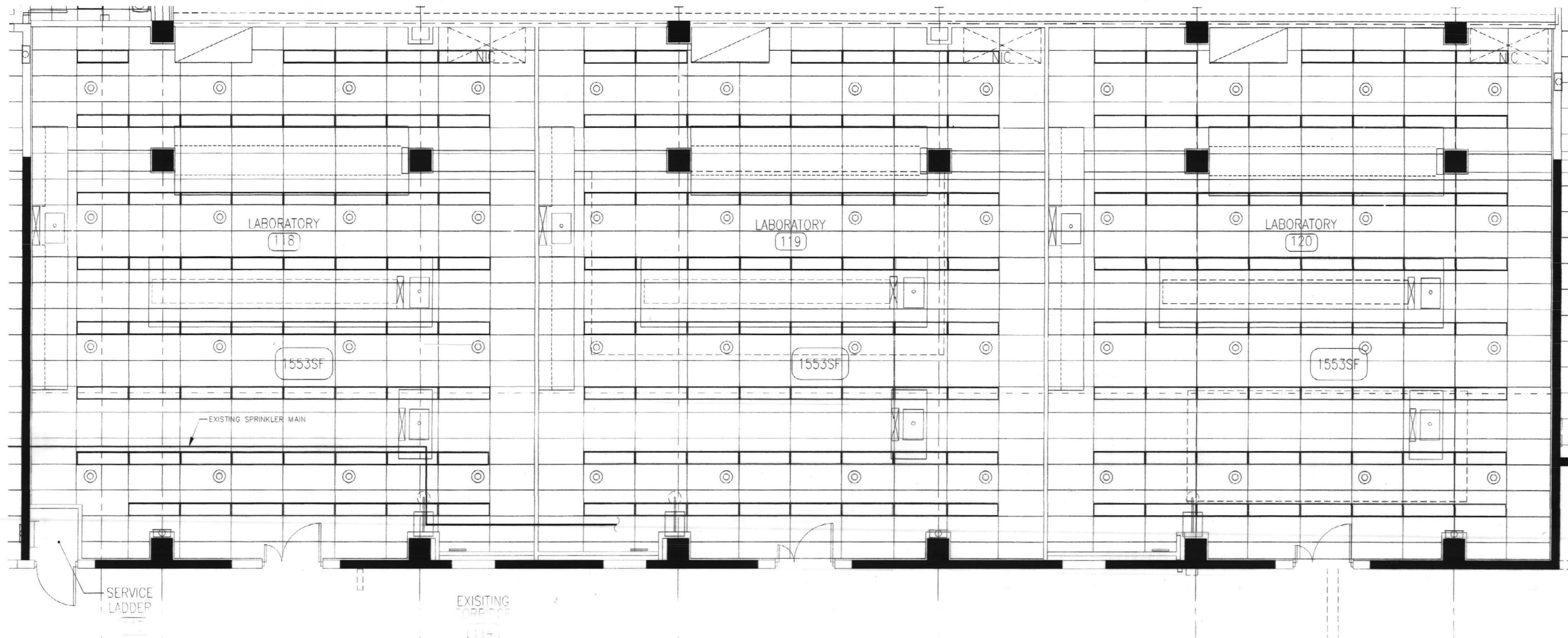
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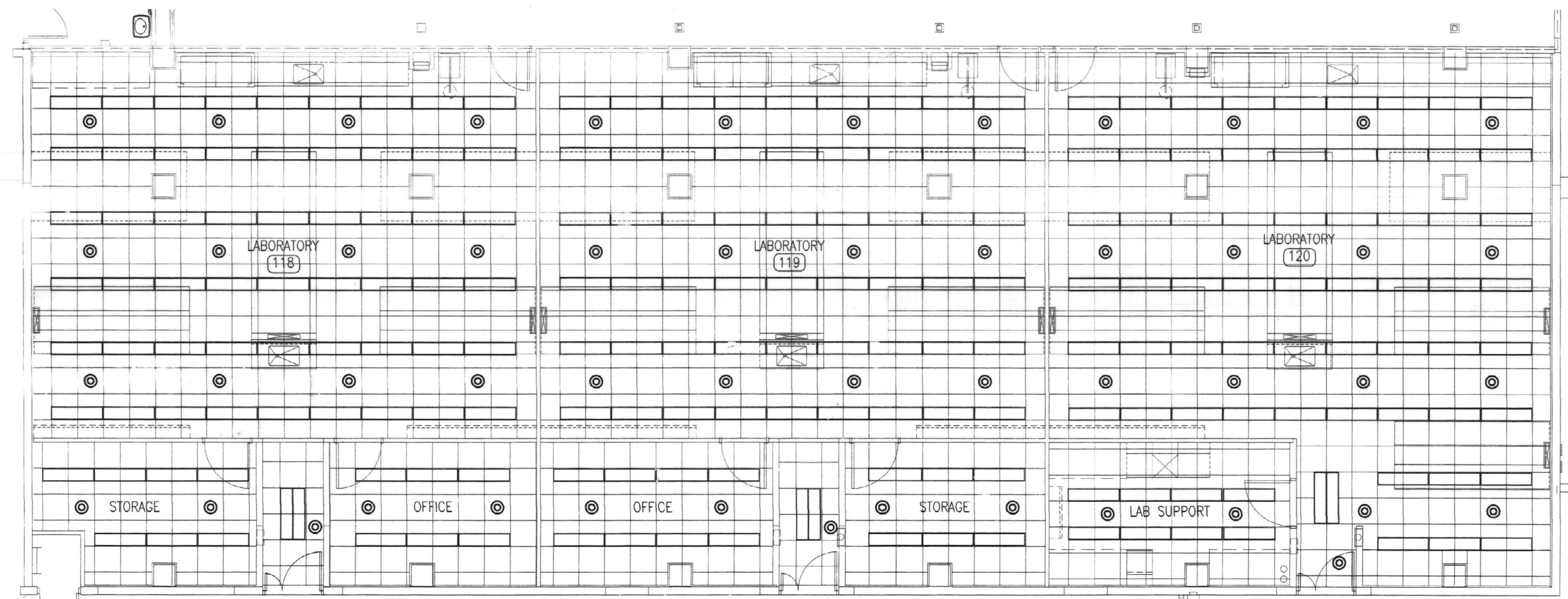
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Consulting Engineers



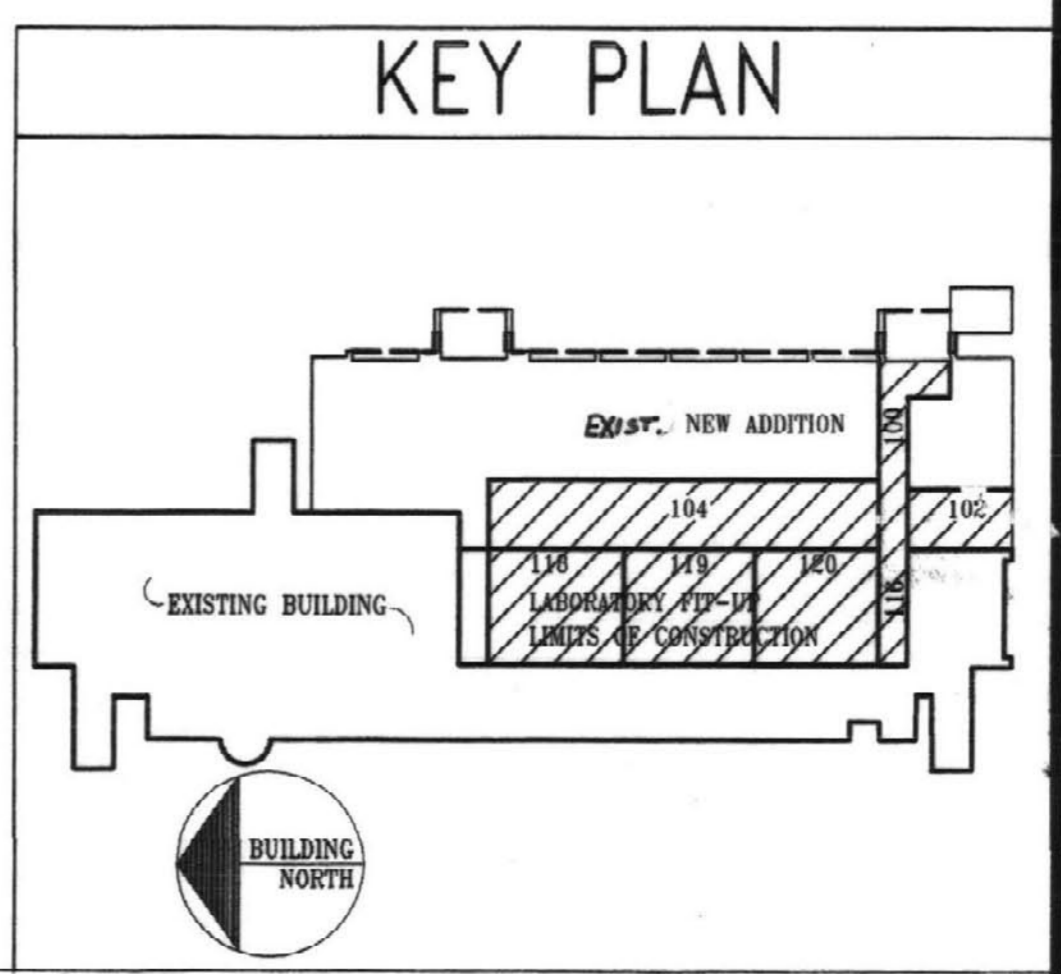
PARTIAL FIRST FLOOR - EXISTING CONDITIONS PLAN
SCALE: 1/4" = 1'-0"



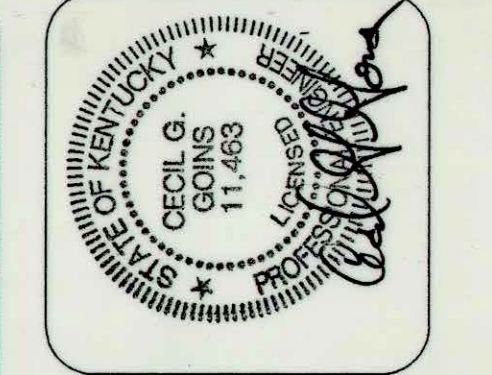
NOTE:
A. CONTRACTOR SHALL REVISE SPRINKLER LAYOUT, BASED ON NEW LAYOUT.

PARTIAL FIRST FLOOR - FIRE PROTECTION PLAN
SCALE: 1/4" = 1'-0"

- GENERAL FIRE PROTECTION NOTES:**
1. SPRINKLER INSTALLATION SHALL CONFORM TO NFPA 13, NFPA 101, AND THE KENTUCKY BUILDING CODE.
 2. COORDINATE INSTALLATION OF ALL SYSTEMS WITH MECHANICAL (HVAC) SYSTEMS AND PLUMBING. CEILING CAVITY SPACE IS RESTRICTED AND INSTALLATION OF DUCTWORK SHALL TAKE PRIORITY OVER ALL OTHER TRADES. NO EXTRA COMPENSATION WILL BE ALLOWED TO COVER THE COST OF RELOCATING SYSTEMS FOUND ENCRDACHING ON SPACE REQUIRED BY MECHANICAL SYSTEMS.
 3. PROVIDE FIRE STOPPING AT ALL WALL AND FLOOR PENETRATIONS.
 4. THE CONTRACTOR SHALL PERFORM A FLOW TEST PRIOR TO COMPLETING SHOP DRAWING AND HYDRAULIC CALCULATIONS.
 5. EXISTING SPRINKLERS SHALL NOT BE RE-USED.
 6. EXISTING PIPING SHALL BE RE-USED TO GREATEST EXTENT POSSIBLE.



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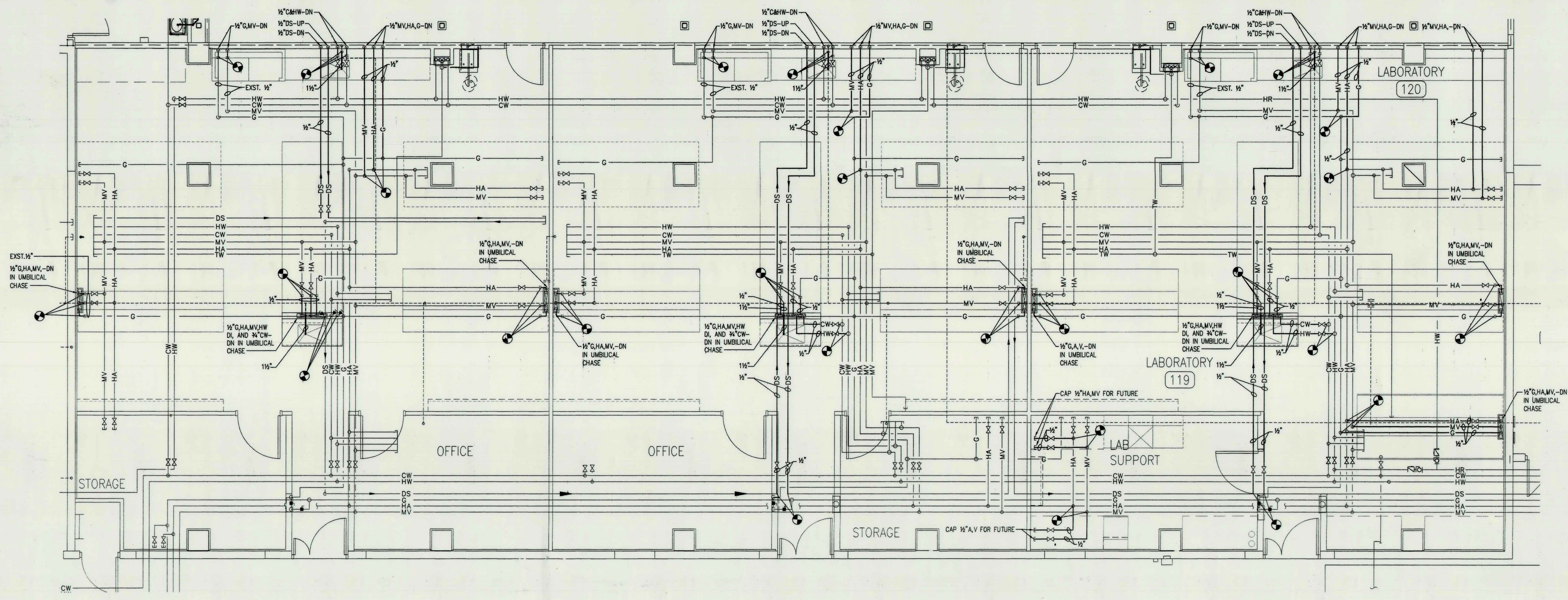
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PLUMBING PLANS
AND DIAGRAM

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PLUMBING LEGEND

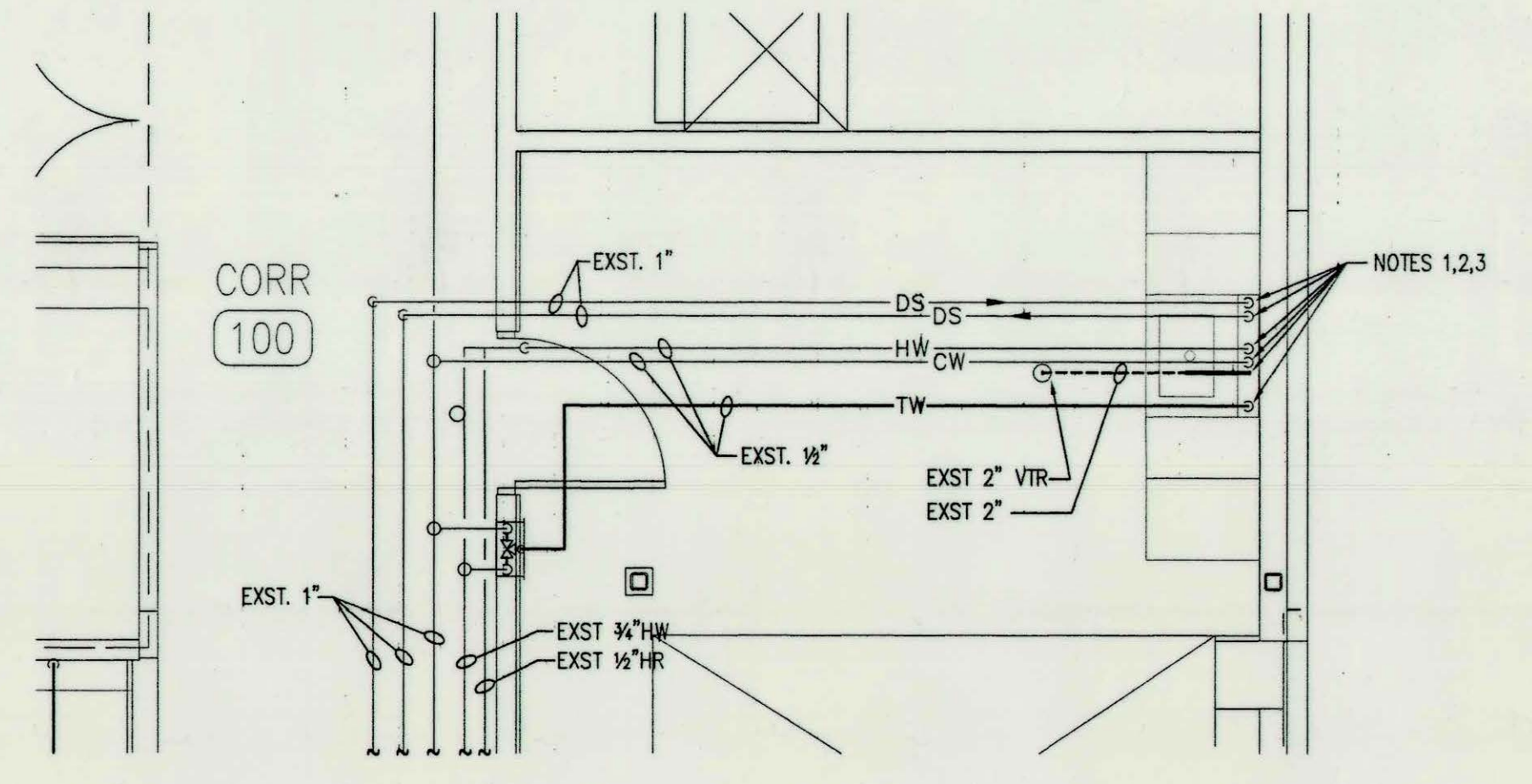
- CW COLD WATER
- HW HOT WATER
- HA AIR
- MV VACUUM
- DS DEIOZED SUPPLY
- TW TEMPERED WATER
- X VALVE
- ▽ SHUT-OFF VALVE IN VERTICAL
- ⊥ CAP AND PLUG
- ⊕ NEW TO EXISTING



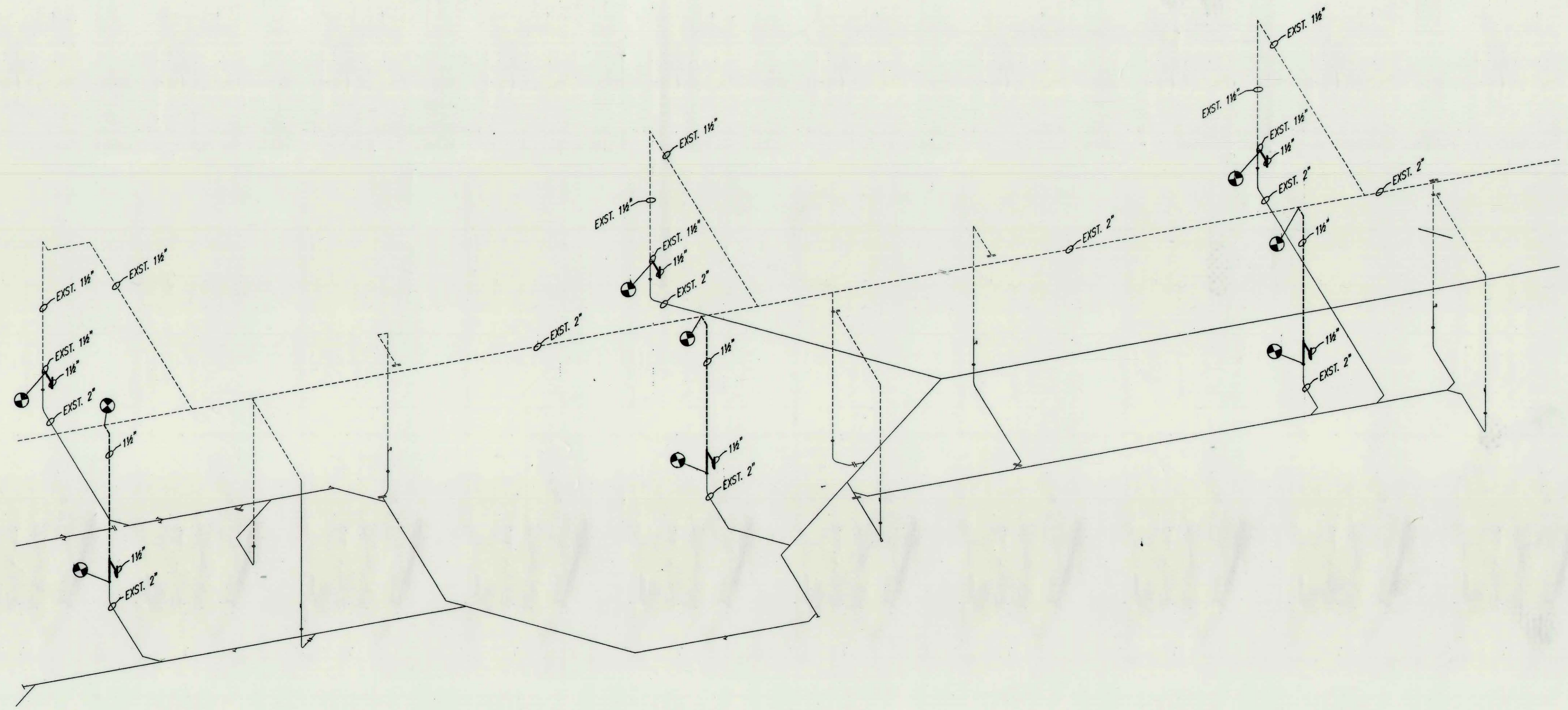
PARTIAL FIRST FLOOR - PLUMBING PLAN AREA A
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

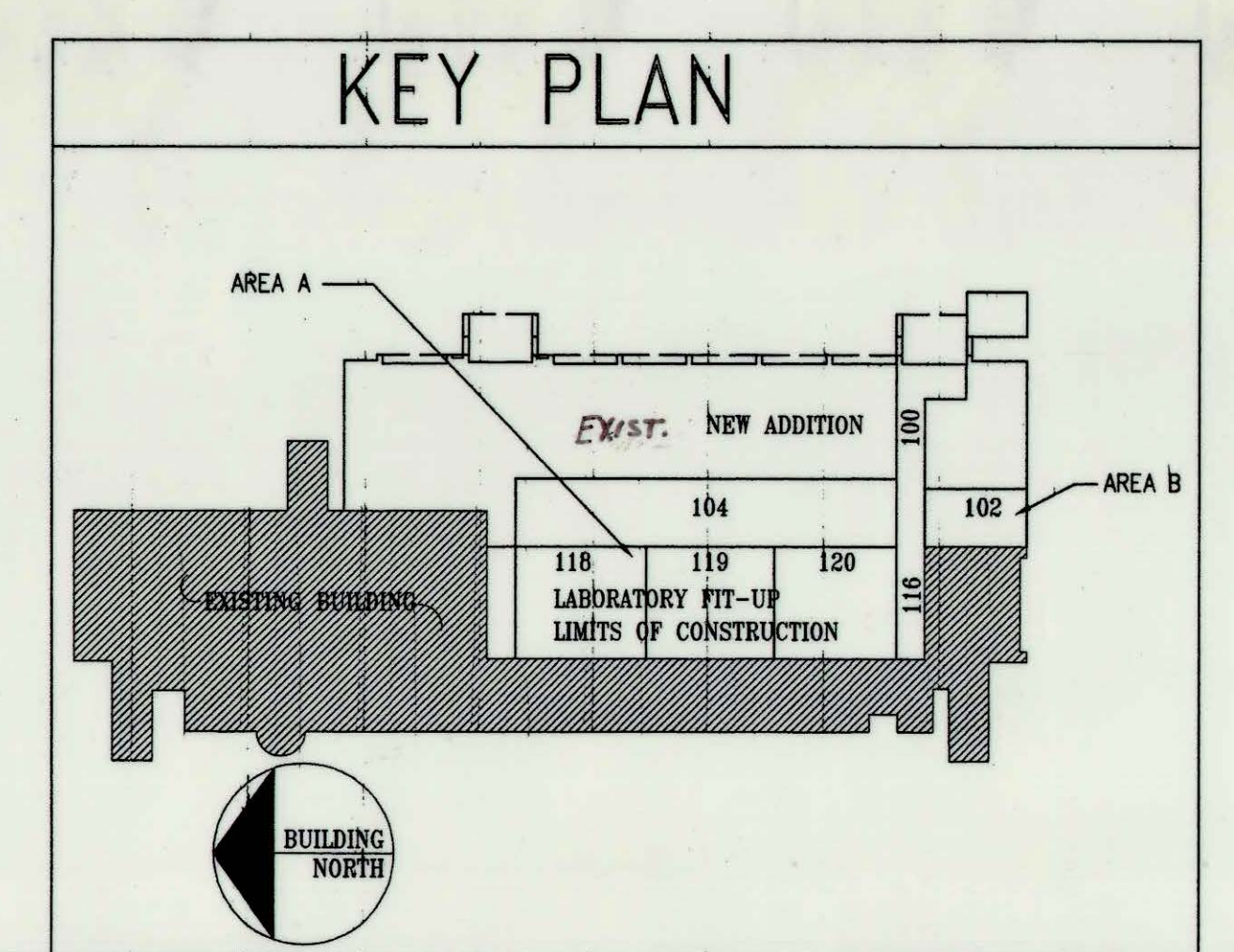
1. PLUMBING CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES THAT ARE SUPPLIED BY CASEWORK CONTRACTOR.
2. PLUMBING CONTRACTOR SHALL CONNECT ALL PIPING TO PLUMBING FIXTURES THAT ARE SUPPLIED BY CASEWORK CONTRACTOR. PLUMBING CONTRACTOR SHALL WORK CLOSE WITH THE CASEWORK CONTRACTOR SO THAT ALL PLUMBING FIXTURES ARE INSTALLED, CONNECTED, AND PROPERLY WORKING. ALL PIPING SHALL MEET STATE AND LOCAL CODES.
3. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS, AND SIZES.
4. ALL WASTE AND VENT PIPING WILL BE ACID PIPING.



PARTIAL FIRST FLOOR - PLUMBING PLAN AREA B
SCALE: 1/4" = 1'-0"



WASTE AND VENT PIPING DIAGRAM
SCALE: NONE

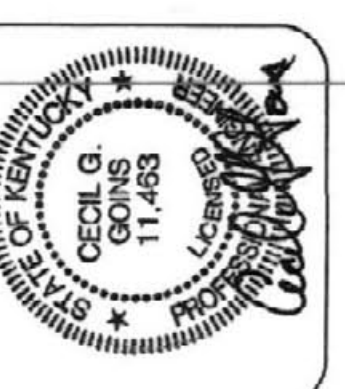


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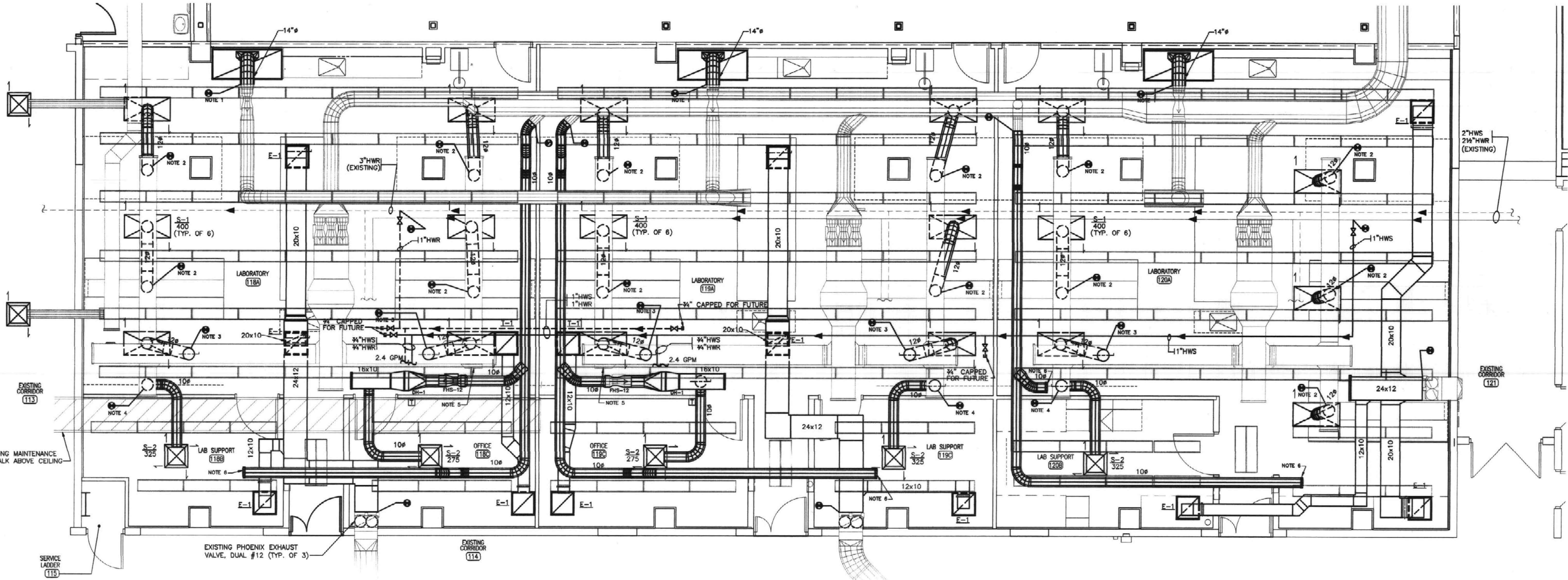
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NO.	DESCRIPTION



FIRST FLOOR HVAC PLAN

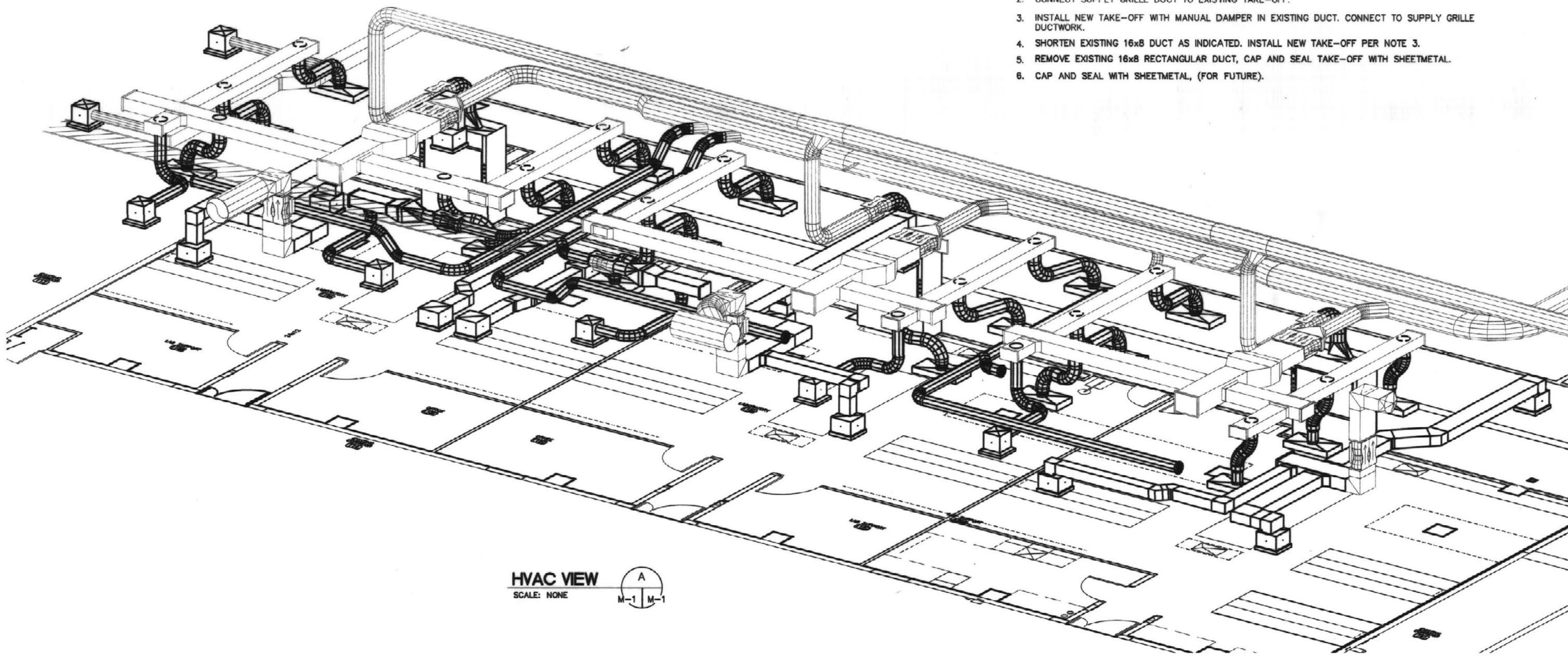
SCALE: 1/4"=1'-0"

SHEET NOTES

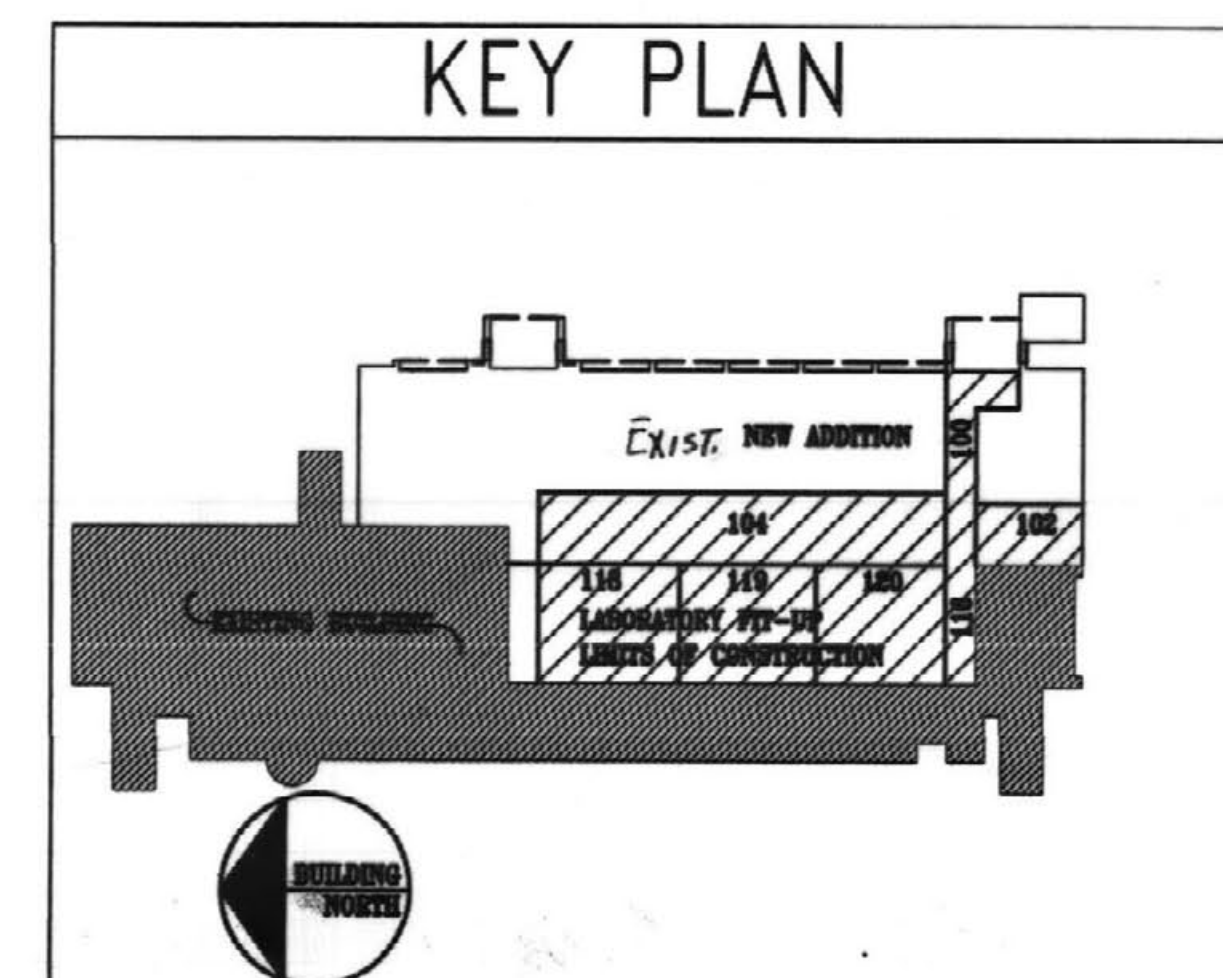
1. CONNECT FUME HOOD TO EXISTING EXHAUST DUCTWORK AND PHOENIX CONTROL VALVE. PROVIDE ACCESSIBLE FLANGED CONNECTION BELOW CEILING.
2. CONNECT SUPPLY GRILLE DUCT TO EXISTING TAKE-OFF.
3. INSTALL NEW TAKE-OFF WITH MANUAL DAMPER IN EXISTING DUCT. CONNECT TO SUPPLY GRILLE DUCTWORK.
4. SHORTEN EXISTING 18x8 DUCT AS INDICATED. INSTALL NEW TAKE-OFF PER NOTE 3.
5. REMOVE EXISTING 16x8 RECTANGULAR DUCT, CAP AND SEAL TAKE-OFF WITH SHEETMETAL.
6. CAP AND SEAL WITH SHEETMETAL, (FOR FUTURE).

GENERAL NOTES

- A. DRAWING IS DIAGRAMMATIC. PROVIDE PIPE AND DUCTWORK OFFSETS, ELBOWS, AND TRANSITIONS AS REQUIRED TO AVOID ALL INTERFERENCES ENCOUNTERED. COORDINATE ROUTING WITH OTHER TRADES.
- B. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS, SIZES AND MATERIALS PRIOR TO PERFORMING ANY FABRICATION. COORDINATE DUCT ROUTING WITH EXISTING AND NEW LIGHTING. PROVIDE OFFSETS AND ADDITIONAL FITTINGS TO AVOID INTERFERENCES WITH LIGHTING.
- C. NEW DUCTWORK AND EQUIPMENT IS SHOWN HEAVY.
- D. ROUTE PIPING AND DUCTWORK AS HIGH AS POSSIBLE WHILE STAYING CLEAR OF REQUIRED ACCESS AREAS.
- E. FUME HOOD EXHAUST DUCTWORK SHALL BE 316 STAINLESS STEEL INCLUDING TRANSITION FROM FUME HOOD TO EXHAUST DUCT. LAB ROOM EXHAUST DUCTWORK SHALL BE GALVANIZED STEEL.
- F. WHERE NEW DUCT ATTACHES TO EXISTING; REMOVE EXISTING INSULATION (INTERIOR OR EXTERIOR) WITHIN 8' OF CONNECTION AND PROVIDE NEW EXTERNAL INSULATION.
- G. FIELD VERIFY DUCT ARRANGEMENT AND SIZES PRIOR TO FABRICATION. AREA ABOVE AND NEAR CEILING IS LIMITED DUE TO EXISTING DUCTWORK AND PIPING. USE OF 1.0x RADIUS ELBOWS MAY BE REQUIRED IN SOME LOCATIONS.
- H. AIR VALVE MOUNTING SHALL BE DRAW BAND METHOD FOR FUME HOOD VALVES. FUME EXHAUST ASSEMBLIES IN THE BRANCH DUCTS SHALL BE FLANGED CONNECTIONS. GENERAL EXHAUST AND FUME HOOD SUPPLY AIR VALVES MAY BE INSTALLED WITH SHEETMETAL SCREWS. SUPPORT THE DUCTWORK WITHIN 12" OF THE VALVE. (BOTH SIDES) PROVIDE ALL MATERIALS REQUIRED FOR SUPPORT AND AIR TIGHT INSTALLATION.
- I. BALANCE GENERAL EXHAUST, LAB EXHAUST, SUPPLY AIRFLOWS, ETC. FOR SPACES. ALSO BALANCE EXHAUST AND SUPPLY AIR FANS SERVING SPACES. BALANCE WATER FLOW FOR COILS.
- J. DUE TO THE RESTRICTIONS IMPOSED BY EXISTING CONDITIONS CONTRACTOR SHALL SUBMIT FABRICATION DRAWINGS PRIOR TO ANY INSTALLATION OF DUCTWORK IN EXISTING AREAS. FABRICATION DRAWINGS SHALL SHOW COORDINATION WITH LIGHTING, PIPING, EXISTING DUCTWORK AND EXISTING CONDITIONS. SUBMIT TO ARCHITECT AND ENGINEER FOR REFERENCE PURPOSES.
- K. PROVIDE 2" PVC VENT CONNECTION FROM FLAMMABLE STORAGE CABINET AND CHEMICAL STORAGE CABINET TO INTERNAL FUME CONNECTION IN FIRST FLOOR LABS, 118, 119, AND 120. PROVIDE CONNECTION IN ACCORDANCE WITH FUME HOOD MANUFACTURER'S RECOMMENDATIONS.
- L. PROVIDE FUME HOOD CONTROL SYSTEM AS INDICATED.
- M. REFER TO HVAC DETAILS ON SHEET M2.



HVAC VIEW
SCALE: NONE





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HVAC DETAILS

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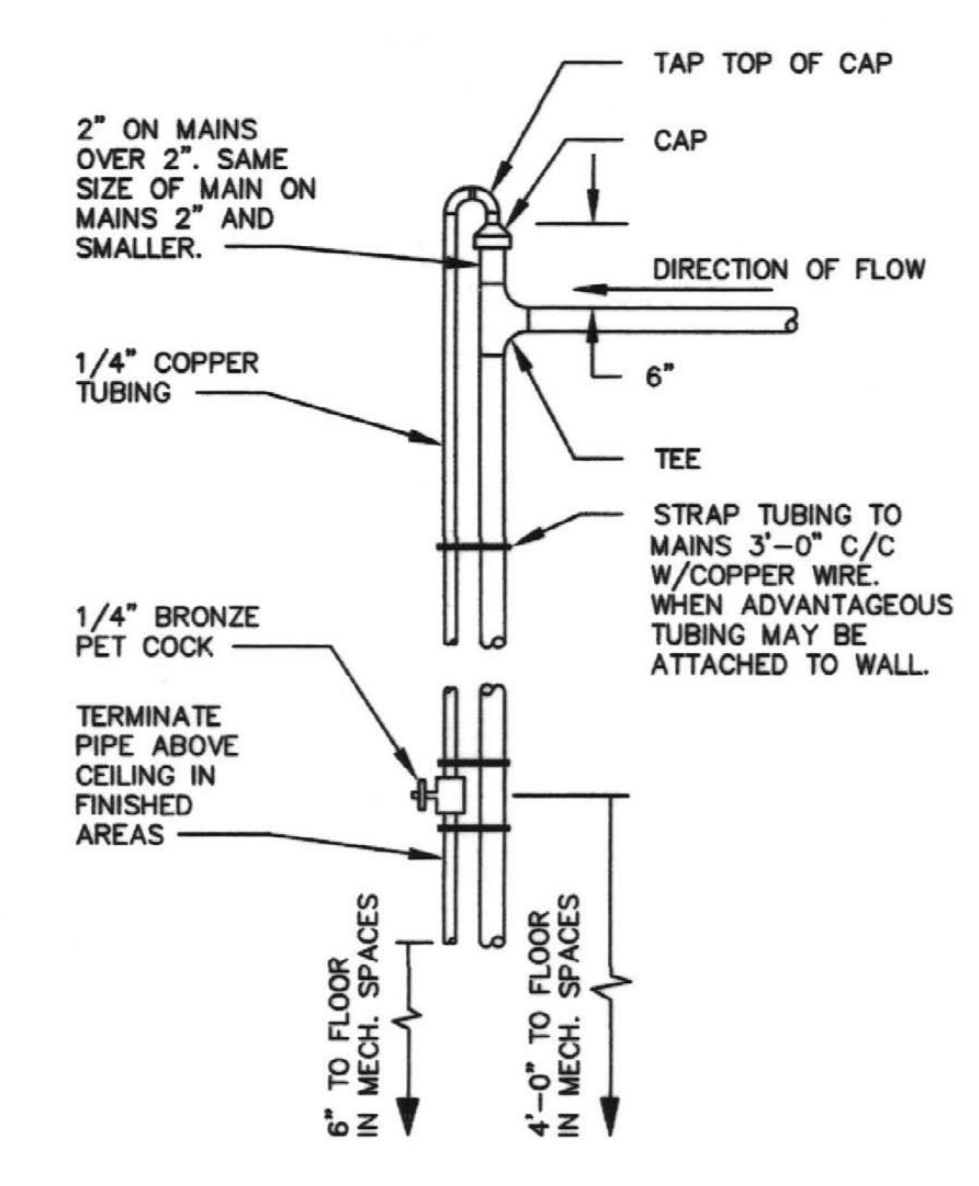
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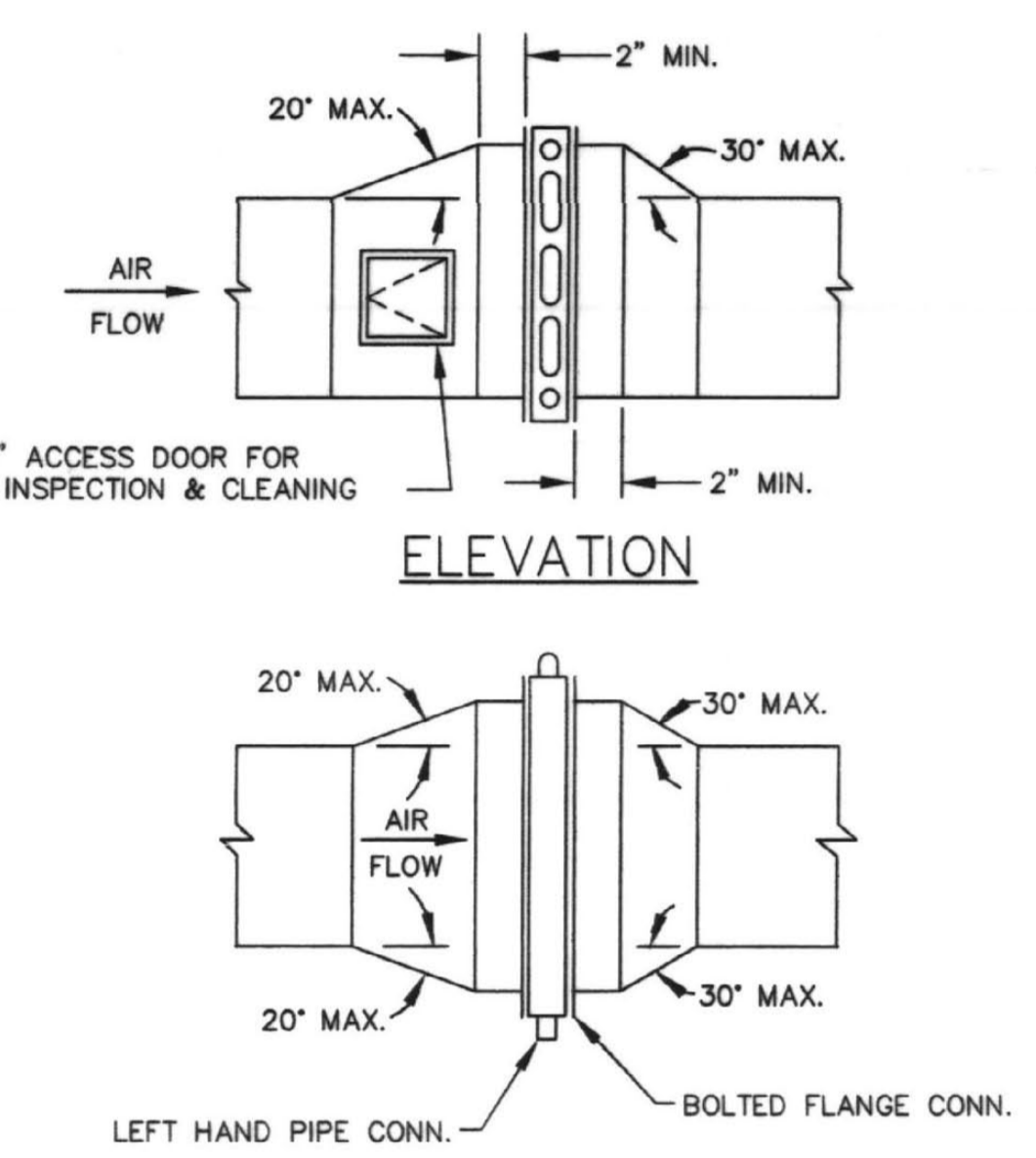
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M-2

LEGEND AND ABBREVIATIONS

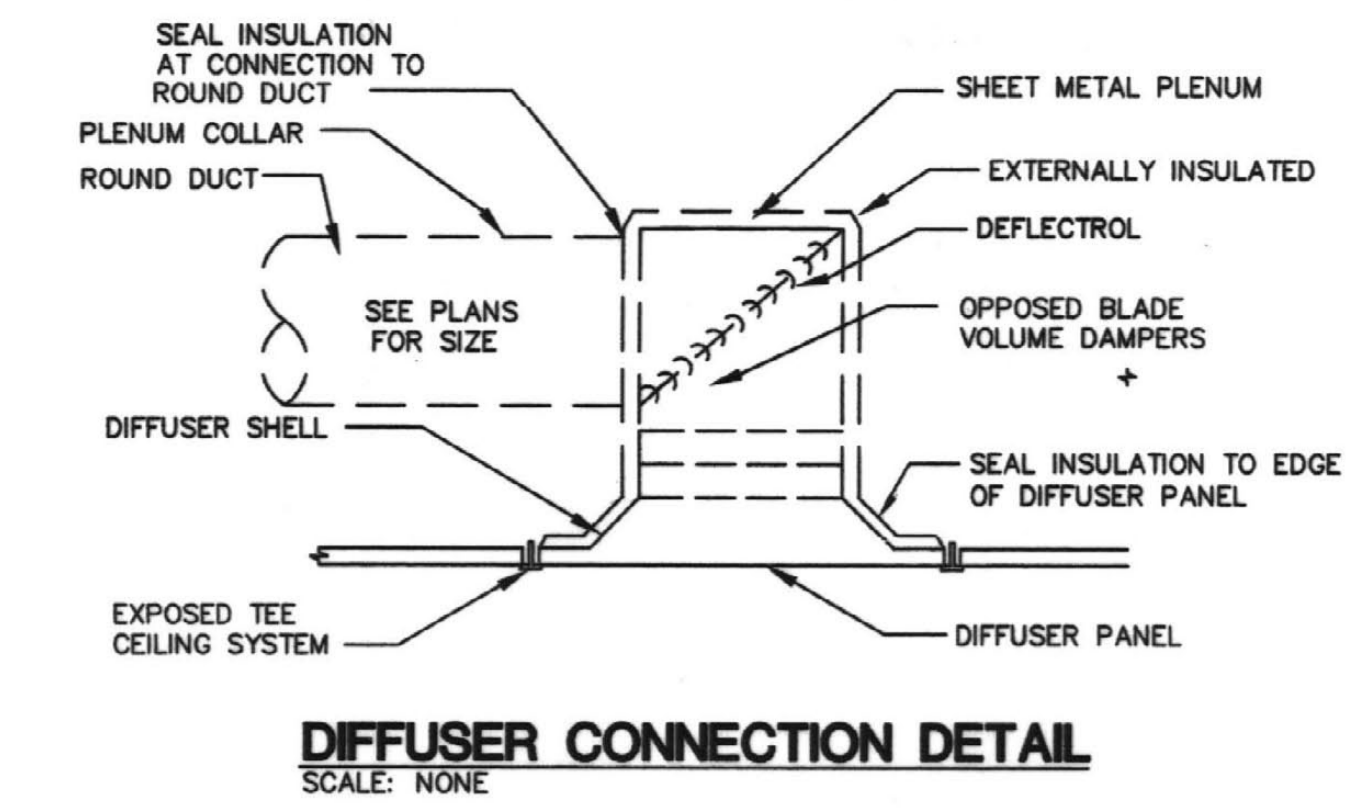
	GATE VALVE	A.F.F. ABOVE FINISHED FLOOR
	CAP ON END OF PIPE	ADJ. ADJUSTABLE
	POINT OF CONNECTION, NEW TO EXISTING	AHU AHU AIR HANDLING UNIT
	AIRFLOW CONTROL VALVE	AS AIR SEPARATOR
	SUPPLY DIFFUSER	AUTO. AUTOMATIC
	EXHAUST GRILLE	BTUH BRITISH THERMAL UNITS PER HOUR
	EXHAUST GRILLE WITH MANUAL DAMPER IN DUCT CONNECTION	CFM CUBIC FEET PER MINUTE
	BALANCING VALVE	CHEM. CHEMICAL
	MOTOR OPERATED VALVE (TWO WAY)	CL.G. CEILING/COOLING
	PRESSURE RELIEF VALVE	C.H. CANOPY HOOD
	FLOW SWITCH	CWS CHILLED WATER SUPPLY
	PRESSURE GAUGE WITH GAUGE COCK	CWR CHILLED WATER RETURN
	TEMPERATURE GAUGE WITH GAUGE COCK	Ø DIAMETER
	THERMOMETER	DIA. DIAMETER
	AUTOMATIC AIR VENT (AAV)	DN. DOWN
		EXH. EXHAUST AIR
		E.A.T. ENTERING AIR TEMPERATURE
		E.R.C. ENERGY RECOVERY COIL
		E.S.P. EXTERNAL STATIC PRESSURE
		EXP. EXPOSED
		E.W.T. ENTERING WATER TEMPERATURE
		EF-# EXHAUST FAN
		EXH. EXHAUST
		EXIST. EXISTING
		F.D. FLOOR DRAIN OR FIRE DAMPER
		FHE FUME HOOD EXHAUST VALVE
		FHS FUME HOOD SUPPLY VALVE
		FPM FEET PER MINUTE
		GEX GENERAL EXHAUST VALVE
		GPM GALLONS PER MINUTE
		HP HORSEPOWER
		MAX. MAXIMUM
		MIN. MINIMUM
		NC NOISE CRITERIA
		O.A. OUTSIDE AIR
		PRESS. PRESSURE
		R.A. RETURN AIR
		RM. ROOM
		S.A. SUPPLY AIR
		SHT. SHEET
		S.P. STATIC PRESSURE
		ST-# SOUND TRAP
		T.C. TEMPERATURE CONTROL
		TEMP. TEMPERATURE
		TYP. TYPICAL
		VEL. VELOCITY
		WPD WATER PRESSURE DROP
		WTD WATER TEMPERATURE DROP



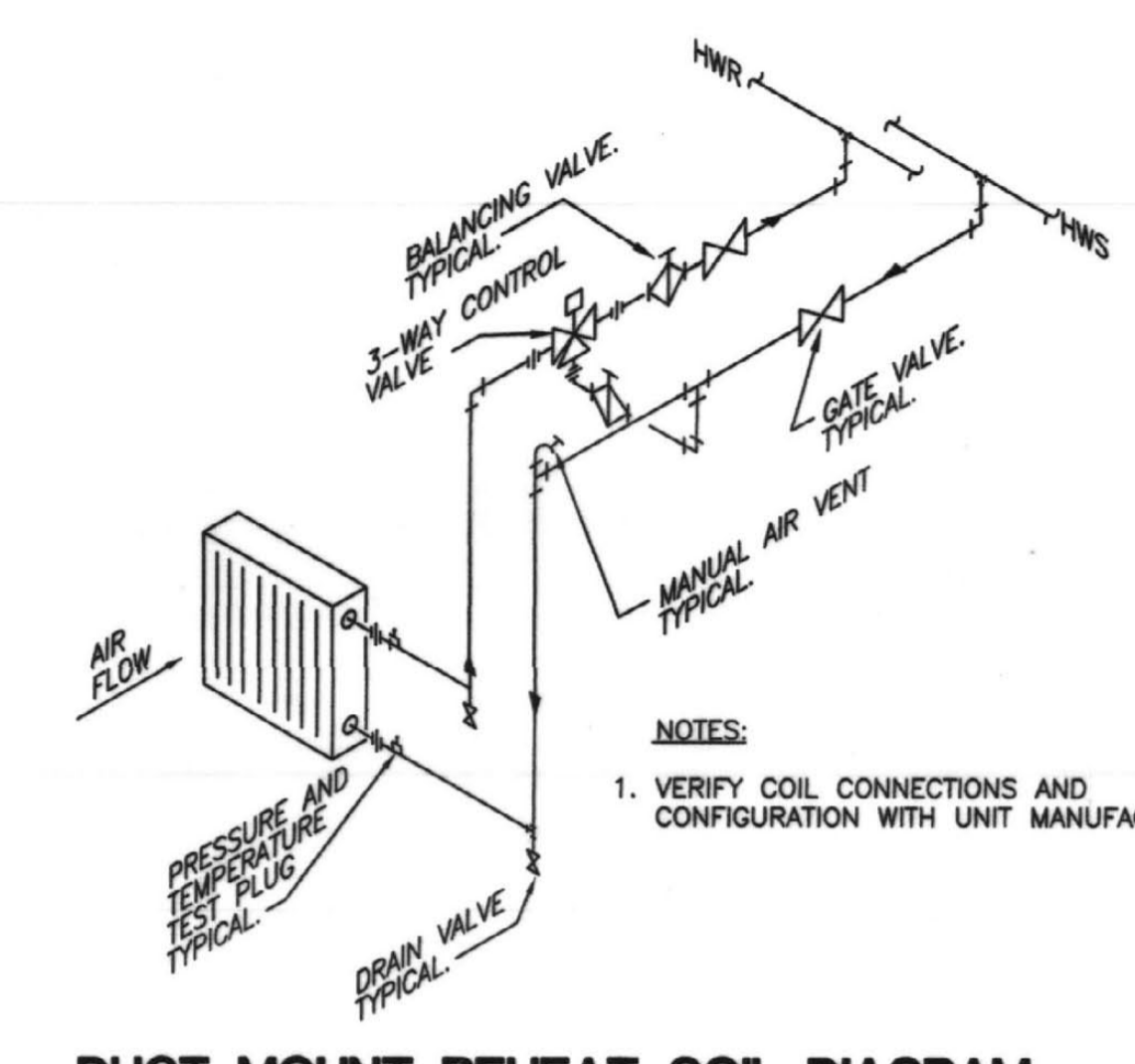
MANUAL AIR VENT
SCALE: NONE



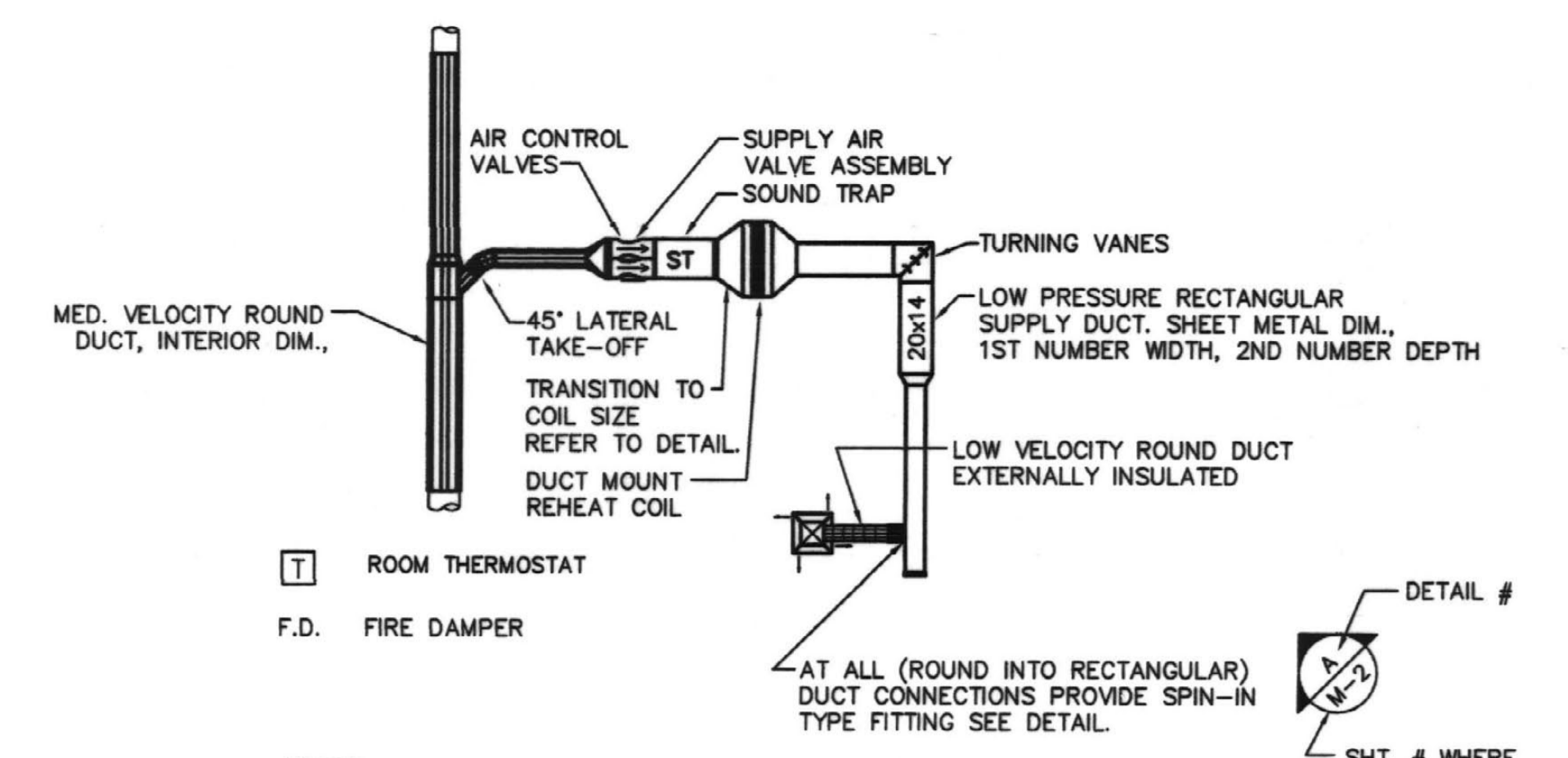
DUCT MOUNTED COIL DETAIL
SCALE: NONE



DIFFUSER CONNECTION DETAIL
SCALE: NONE

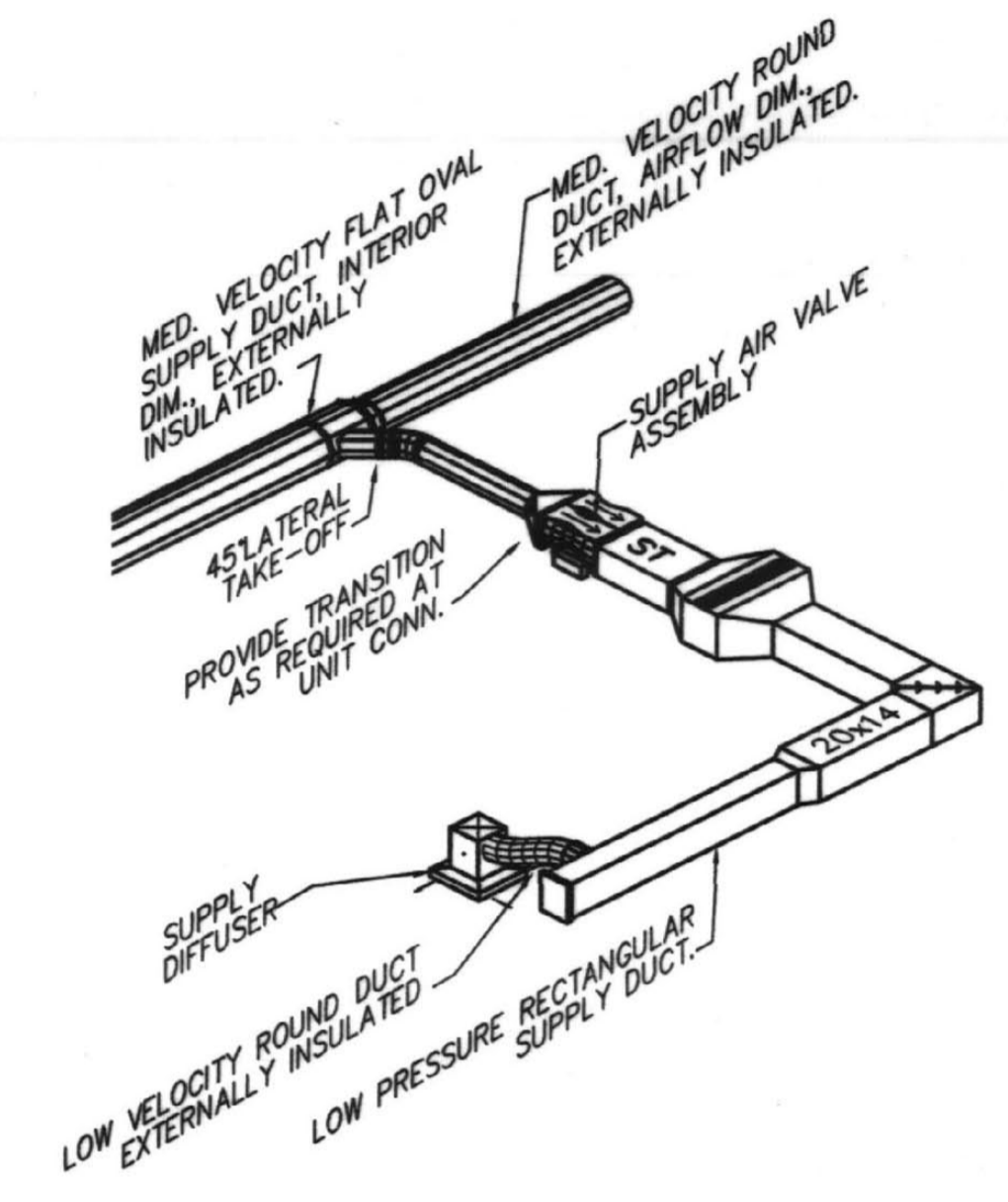


DUCT MOUNT REHEAT COIL DIAGRAM
SCALE: NONE



- NOTES:
1. ALL LOW PRESSURE DUCTWORK DIMENSIONS ARE AIR FLOW DIMENSIONS.
 2. MEDIUM VELOCITY DUCT DIMENSIONS ARE AIR FLOW DIMENSIONS.
 3. THERMOSTATS CONNECTED TO DUCT REHEAT COILS ALSO CONTROL AIR CONTROL VALVE.
 4. EXTERNALLY INSULATE ALL SUPPLY AND RETURN DUCTWORK.

HVAC DUCT LEGEND
SCALE: 1/8"=1'-0"



HVAC DUCT LEGEND DETAIL
SCALE: NONE

SYMBOL	SIZE WxH	COIL TYPE	FIN TYPE	FINS/FT	HEATING MINIMUM MBTUH	CFM	LEAVING AIR DRY BULB °F			PRESS. DROP			REMARKS
							GPM	WTD	ROWS	HEATING	HEATING	HEATING	
DH-1	20X15	W	PF E	123	23.4	600	91	2.34	20	1	0.09	1.39	SEE BELOW

NOTES:

1. BASIS OF DESIGN: TRANE HOT WATER COIL E.A.T. 55F.
2. FACE VELOCITY MAXIMUM IS 600 FPM.
3. PROVIDE AIR VENT, INSTALL AS RECOMMENDED BY COIL MFR. REFER TO DETAIL FOR ACCESSORIES REQUIRED.
4. REFER TO DUCT MOUNTED COIL DETAILS THIS SHEET. PROVIDE DUCT TRANSITIONS AS REQUIRED.

FUME HOOD SUPPLY AIR VALVES											
VALVE	AREA SERVED	QTY.	CFM (eq.)		NC #	DUCT CONNECTION		SOUND TRAP NO.	NOTES		
			MIN	MAX		INLET	OUTLET				
FHS-12	118C, 119C	2	90	1500		12\"/>					

NOTES:

1. BASIS OF DESIGN IS PHOENIX CONTROLS CORP. AIRFLOW CONTROL VALVE, MODEL ACEL II. AS INDICATED IN SPECIFICATIONS.
2. VALVES AND ALL INTERNAL PARTS SHALL BE CONSTRUCTED AND COATED AS INDICATED IN SPECIFICATIONS.
3. LISTED CFM IS FOR EACH VALVE ASSEMBLY.
4. VALVES LISTED MEET ROOM CRITERIA NOISE LEVELS OF RC 45 FOR DUCT LAYOUT AS DESIGNED. ALTERNATE MANUFACTURERS MUST ALSO MEET THIS REQUIREMENT FOR THEIR EQUIPMENT AND DUCT ARRANGEMENT INDICATED.
5. VALVES SHALL MATCH EXISTING SYSTEM IN BUILDING. CONTROLS FOR VALVES SHALL BE PROVIDED.

SCHEDULE OF GRILLES & DIFFUSERS											
SYMBOL	MFR.	MODEL	TYPE	PANEL SIZE	INLET SIZE (IN)	NOM. CFM	THROW (FEET)	PRESS. DROP(IN.)	SOUND N.C.	MOUNTING	REMARKS
S-1	PRICE	HCF	HIGH CAPACITY FLUSH FACE	24x48	12"	500	4-4-5, 2w	0.04	<20	SUSP. CEIL.	3,6
S-2	PRICE	AMX, ALUM.	LOUVER FACE, HIGH INDUCTION	24x24	14x14	350	5-8-15, 4w	0.04	<20	SUSP. CEIL.	1,2,4,5,6
E-1	PRICE	APDDRE	PERF. DROP FACE, ALUM.	24x24	22x22	1200	N/A	0.03	<20	SUSP. CEIL.	1,5,6,7
T-1	PRICE	APDDRE	PERF. DROP FACE, ALUM.	24x24	22x22	1200	N/A	0.03	<20	SUSP. CEIL.	1,5,6

NOTES:

1. PROVIDE WITH COLOR/FINISH AS SELECTED BY ARCHITECT. COORDINATE MARGIN/BORDERS WITH CEILING TYPE PRIOR TO ORDER.
2. DIFFUSERS ARE 4 WAY THROW UNLESS INDICATED OTHERWISE. THROW IS BASED ON 100, 75, 50 FPM TERMINAL VELOCITIES. PROVIDE TRANSITION AT CONNECTION AS REQUIRED.
3. QUANTITY OF EIGHTEEN (18) PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
4. PROVIDE WITH OPPOSED BLADE VOLUME DAMPER, FACE ADJUSTABLE.
5. PROVIDE SHEETMETAL PLENUM ON TOP OF DIFFUSER/RETURN WITH INLET SIZE AS INDICATED ON PLANS. REFER TO DETAIL.
6. ALL DIFFUSERS AND RETURN/ EXHAUST GRILLES SHALL BE SUPPORTED INDEPENDENT OF CEILING HARDWARE.
7. QUANTITY OF SIX (6) PROVIDED BY OWNER, INSTALLED BY CONTRACTOR. ADDITIONAL QUANTITIES REQUIRED TO BE PROVIDED BY CONTRACTOR.

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 Laboratory Fit-Up
 University of Kentucky

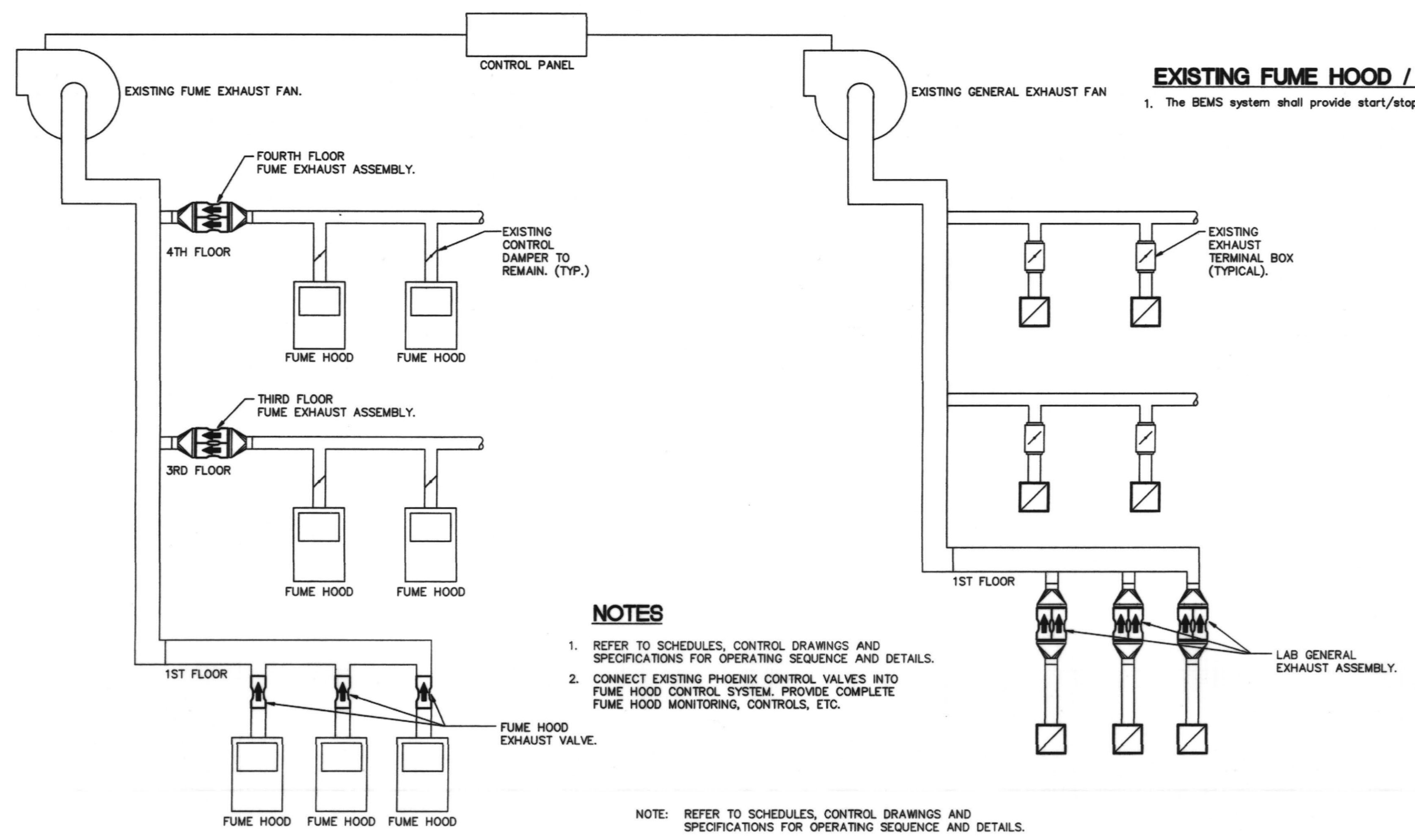
HVAC CONTROLS

Sherman Carter, Barnhart, PSC
 ARCHITECTURE · LANDSCAPE ARCHITECTURE · CIVIL ENGINEERING
 2405 WARDSBURG ROAD · LEWISTON, KY 40504 · PH: 859-224-1351 · FAX: 859-224-8466

JOB NO. 0146A
 DATE November 12, 2002
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SHEET
M-3
 Cab # Plot Document
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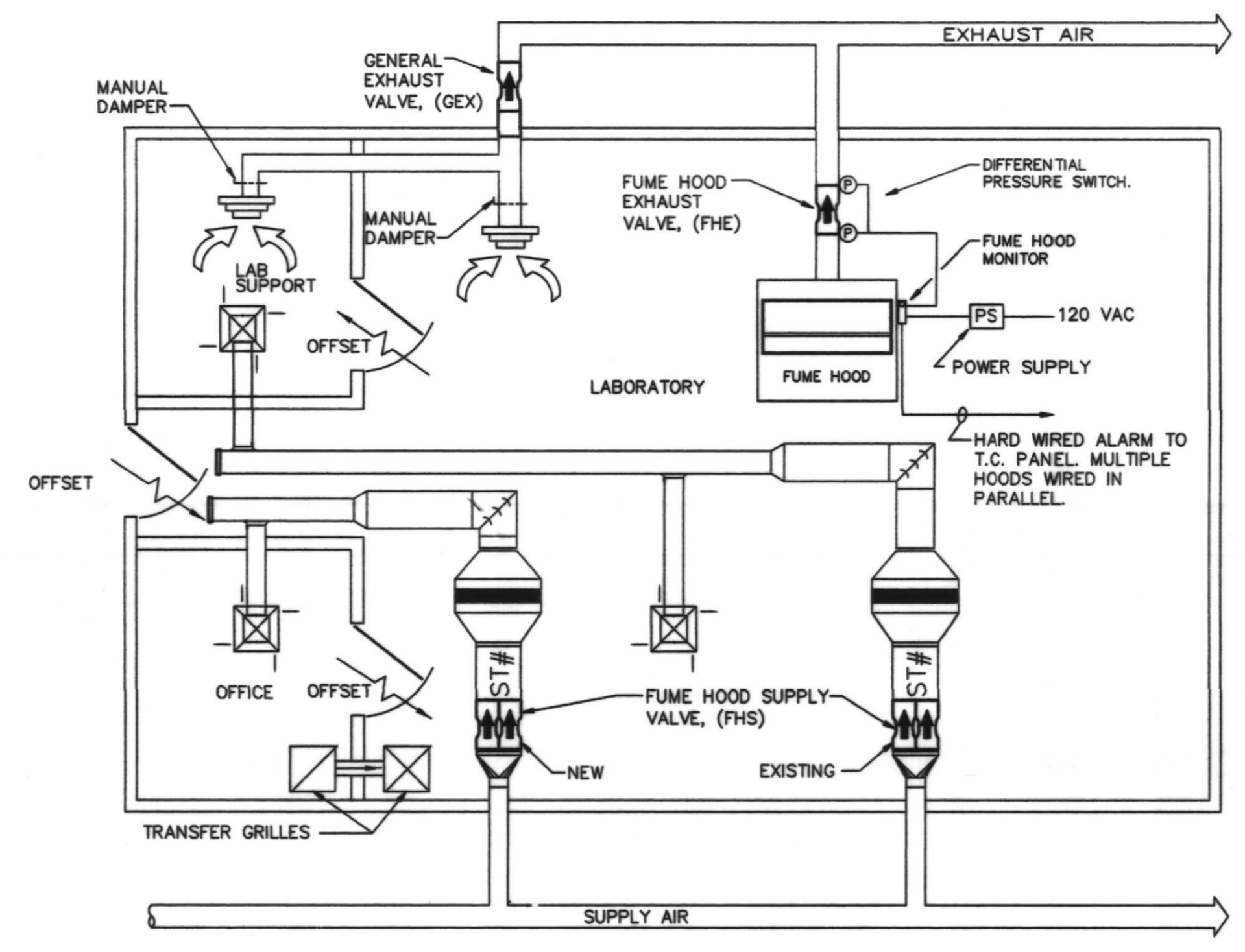
FUME HOOD SYSTEM
LABORATORY EXHAUST SYSTEM
BUILDING LABORATORY AIRFLOW DIAGRAM
 SCALE: NONE

EXISTING FUME HOOD / GENERAL EXHAUST FAN (SOUTHEND)

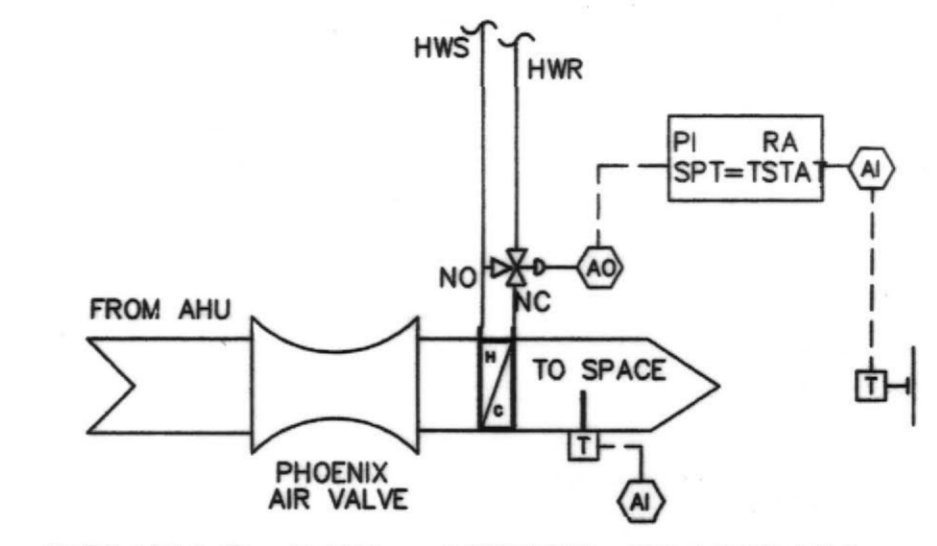
1. The BEMS system shall provide start/stop and status monitoring of existing exhaust fans.

SEQUENCE OF OPERATION

- As the fume hood sash is raised or lowered, the sash sensor signal to the fume hood monitor shall change proportionally. Based on this input, the fume hood monitor shall generate a 0-10 VDC linear, calibrated signal to control the fume hood exhaust valve, maintaining a constant average face velocity at the fume hood opening. The fume hood exhaust valve shall send a 0-10 VDC feedback signal (proportional to the CFM flow at the valve) to the make-up air controller card located on the make-up air valve.
 - The make-up air controller card shall calculate the total hood exhaust volume by summing the feedback signal from the hood exhaust valve, and shall generate a 0-10 VDC total hood exhaust signal.
 - The make-up air controller card shall maintain a constant, adjustable net negative offset between the room's total exhaust and make-up air volumes. This offset shall not vary with changes in exhaust volume magnitude and represents the volume of air that will enter the room from the corridor or other sources.
 - If a negative room offset is desired, the make-up air controller card shall reset the total hood exhaust signal by subtracting the quantity of offset desired. The resultant 0-10 VDC signal is the total hood make-up air signal and represents the volume of supply air required to satisfy the hood demand with respect to the desired constant offset.
 - The make-up air controller card shall be calibrated to maintain a minimum ventilation make-up air volume into the laboratory.
 - The make-up air command signal shall be generated by comparing the minimum ventilation signal to the total hood make-up air signal and selecting the higher of these two signals as the command.
 - The make-up air controller shall increase the command signal to the room's general exhaust valve under conditions where the minimum ventilation make-up air volume is being delivered to the room, and the fume hood exhaust valve is exhausting less than this minimum ventilation volume. Thus the general exhaust valve will open inversely to the fume hood exhaust valve when the hood's sash is lowered beneath the make-up air valves' minimum ventilation volume.
 - Interconnect room systems with corridor offset supply air valve(s) to maintain offset.
 - Offset between Lab Support rooms and lab space shall be maintained via manual dampers in exhaust branches.
- **Note that the space thermostat shall control the reheat coil independent of the make-up air valve position.



LABORATORY AIRFLOW DIAGRAM (TYPICAL)
 SCALE: NONE



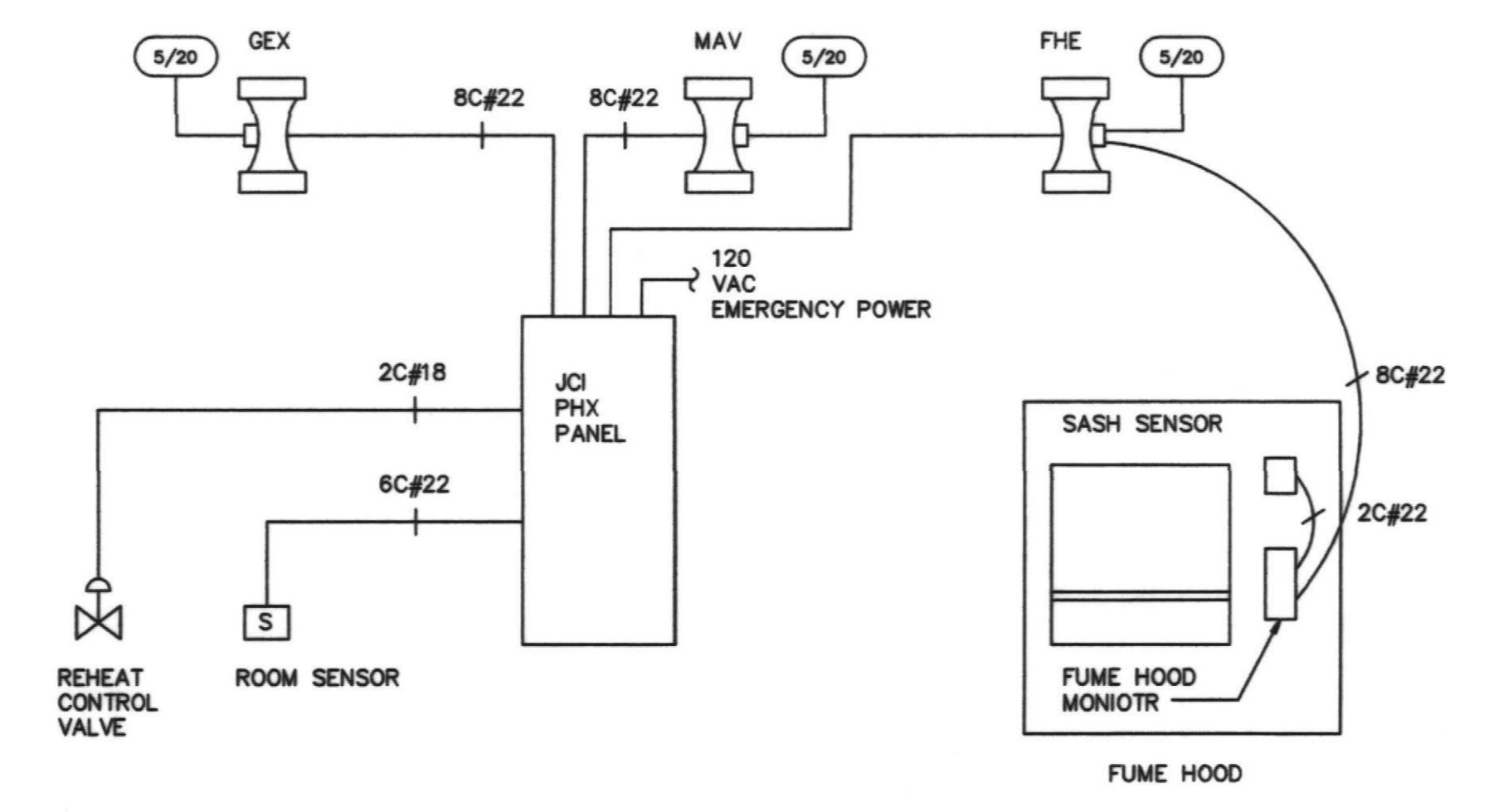
REHEAT COIL AFTER PHOENIX VALVE
 SCALE: NONE

SEQUENCE OF OPERATION

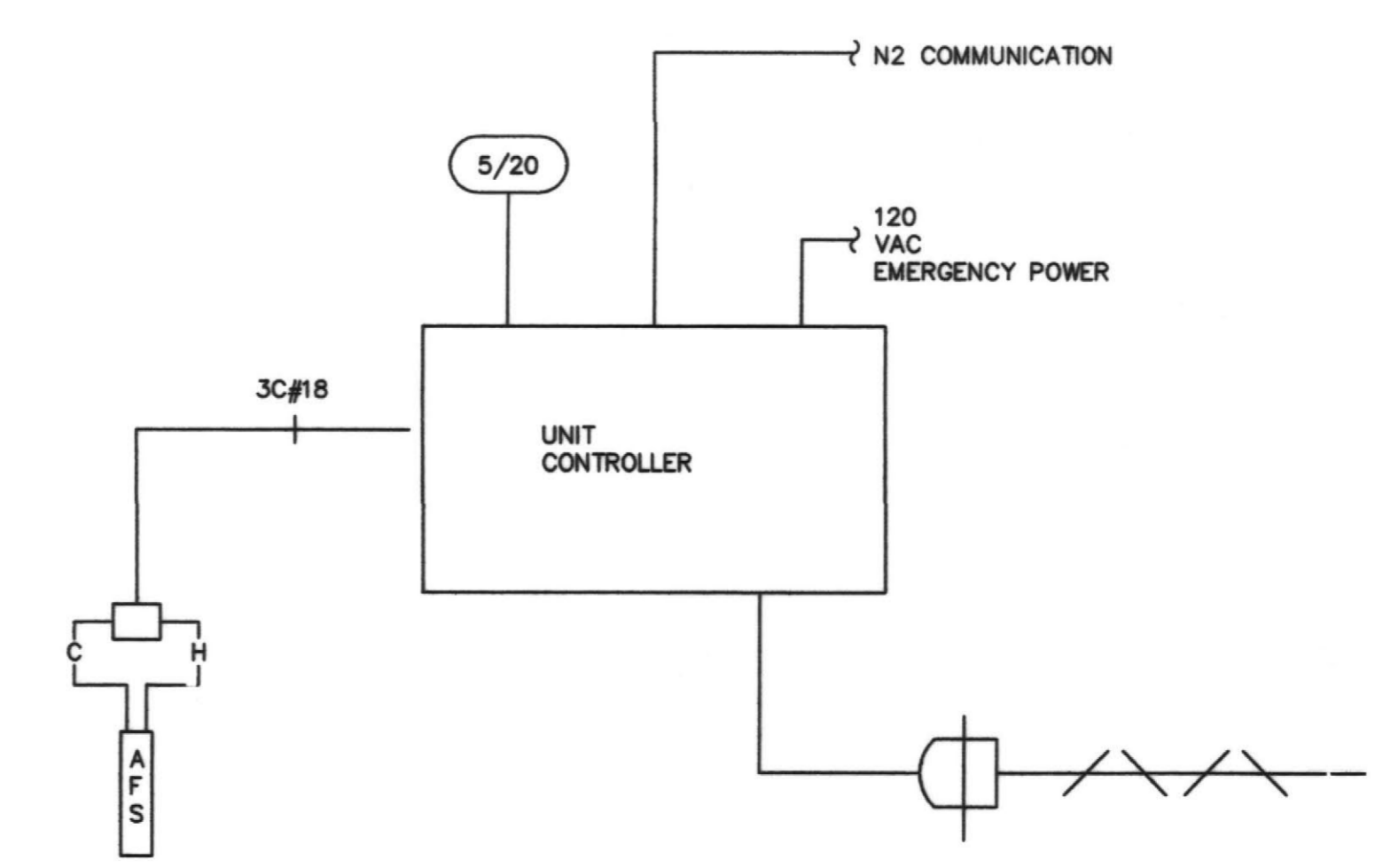
- Occupied Mode: When the room temperature is between the heating and cooling setpoints (inside of the bias), the air valve will modulate to maintain the maximum scheduled air flow and the reheat valve will modulate to remain the room temperature setpoint.
- Unoccupied Mode: When the room temperature is between the heating and cooling setpoints (inside of the bias), the air valve will modulate to maintain the minimum scheduled air flow and the reheat valve will modulate to remain the room temperature setpoint.
- Laboratory Reheat Coil Occupied Mode: The controller will modulate the reheat valve to maintain the room temperature setpoint.
- Laboratory Reheat Coil Unoccupied Mode: The controller will modulate the reheat valve to maintain the night setback temperature setpoint (adj).
- Discharge Air Temperature: Discharge air temperature sensor is provided for monitoring only.

TEMPERATURE CONTROL NOTES

- CONTRACTOR SHALL PROVIDE TEMPERATURE CONTROLS AS AN EXTENSION OF THE JOHNSON CONTROL SYSTEM PREVIOUSLY INSTALLED DURING LAB RENOVATION PROJECT.
- TEMPERATURE CONTROLS FOR LABS, COMPLETE WITH FUME HOOD SYSTEM CONTROLS SHALL BE PROVIDED.
- SYSTEM CONTROL POINTS, SEQUENCES, OPERATION SHALL BE AN EXTENSION OF THE WORK STARTED IN THE LAB SPACES.



TYPICAL LABORATORY
 SCALE: NONE



GENERAL EXHAUST AIR FLOW
 SCALE: NONE

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Laboratory Fit-Up
University of Kentucky**

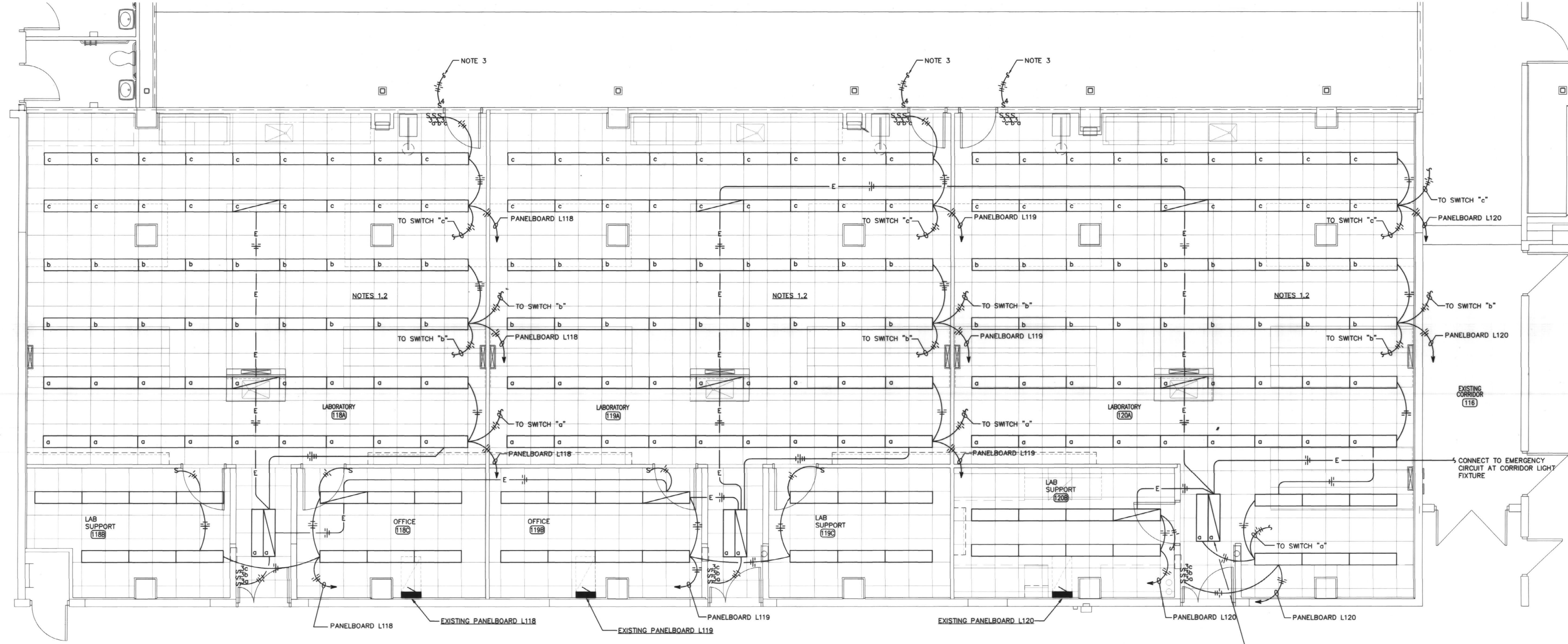
**LIGHTING PLANS AND
LIGHT FIXTURE SCHEDULE**

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SHEET
E-1



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

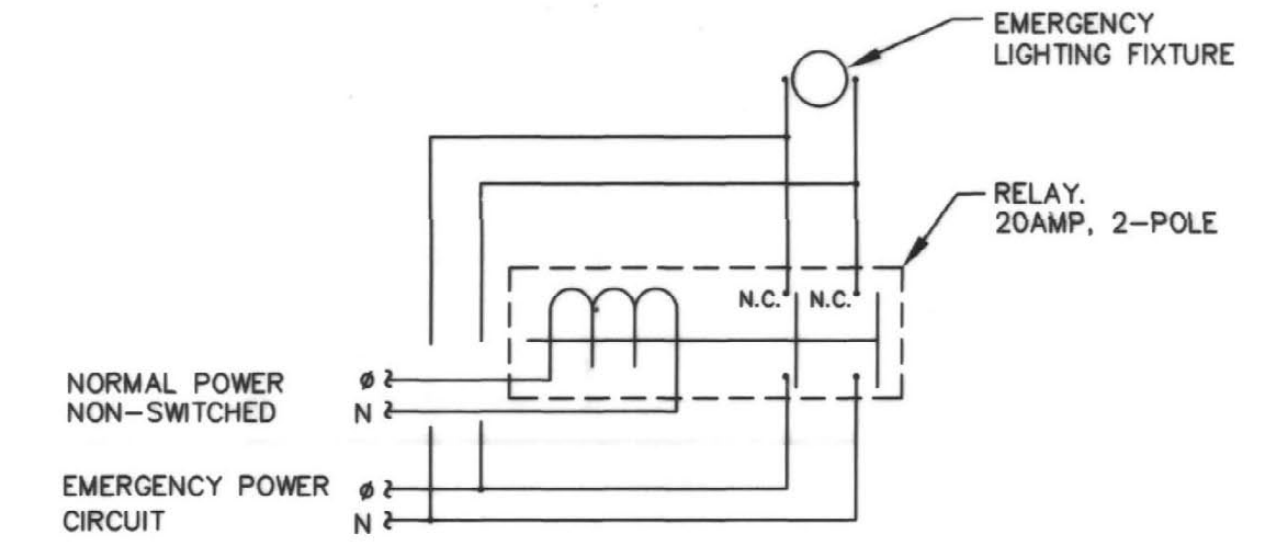
AT EACH EMERGENCY LIGHT FIXTURE PROVIDE EMERGENCY LIGHT CONTROL RELAY. LABEL INTERIOR OF FIXTURE AS EMERGENCY WITH NON-SWITCH ALTERNATE POWER SOURCE. REFER TO DIAGRAM.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	CEILING OUTLET AND FLUORESCENT LIGHTING FIXTURE.
	CEILING OUTLET AND FLUORESCENT LIGHTING FIXTURE ON EMERGENCY POWER
	S SINGLE POLE 20A SWITCH. MOUNT 44" A.F.F. TO TOP, UNLESS NOTED OTHERWISE.
	S3 THREE WAY 20A SWITCH. MOUNT 44" A.F.F. TO TOP, UNLESS NOTED OTHERWISE. 4 SUB SCRIP INDICATES FOUR WAY SWITCH.
	J CEILING MOUNTED JUNCTION BOX.
	W WALL OUTLET WITH 20A, 125V DUPLEX RECEPTACLE. MOUNT 16 INCHES A.F.F. TO BOTTOM, UNLESS NOTED OTHERWISE. GF1 INDICATES GROUND FAULT CURRENT INTERRUPTER.
	A-1,3,5 HOME RUN TO PANELBOARD. NUMBER OF ARROWHEADS INDICATES NUMBER OF 20A/1P CIRCUITS.
	E EMERGENCY CIRCUIT.
	D DATA/COMMUNICATION CONDUIT.

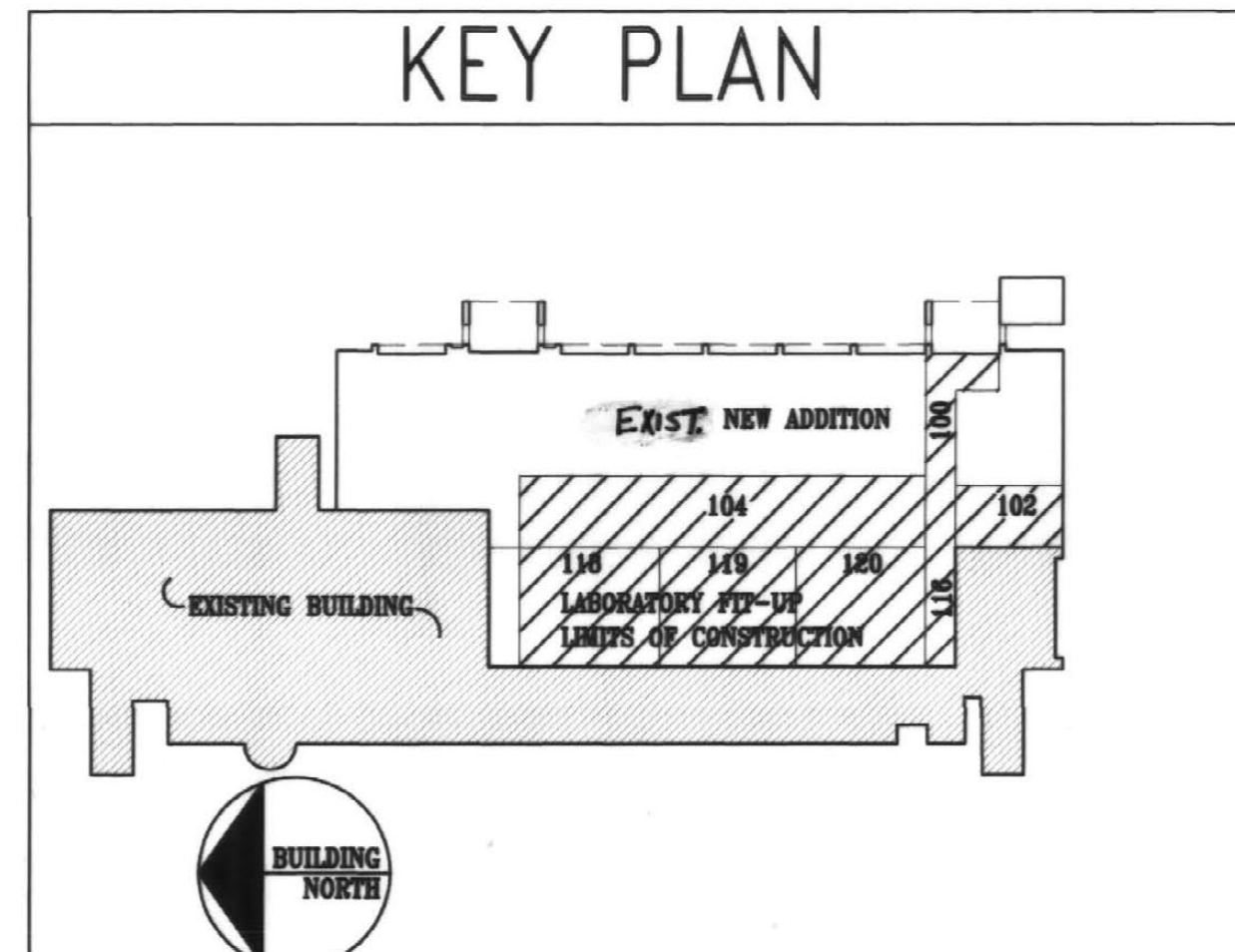
NOTES:

- ROUTE EACH HOMERUN SHOWN IN THIS LAB AND ASSOCIATED ROOMS TO THE EXISTING PANELBOARD THAT SERVES THIS SPACE. HOMERUN ARROWS INDICATES INDIVIDUAL 20 AMP CIRCUITS. UTILIZE AVAILABLE CIRCUIT BREAKERS IN PANELBOARD TO SERVE LOADS.
- LIGHT FIXTURES ARE OWNER FURNISHED, CONTRACTOR INSTALLED.
- PROVIDE WALL OUTLET WITH 4-WAY SWITCH. CONNECT TO EXISTING LIGHTING IN STORAGE 104. OPERATION OF THIS SWITCH SHALL CONTROL STORAGE ROOM 104 LIGHTS.



EMERGENCY LIGHT CONTROL DIAGRAM
SCALE: NONE

THIS DIAGRAM APPLIES TO EMERGENCY LIGHTING FIXTURES.
EMERGENCY LIGHTING FIXTURE SHALL PROVIDE ILLUMINATION FOR EXIT EGRESS FROM THE LAB UPON LOSS OF NORMAL POWER.
EMERGENCY LIGHTING FIXTURE SHALL ILLUMINATION UPON LOSS OF NORMAL POWER INDEPENDENT OF WALL SWITCH.

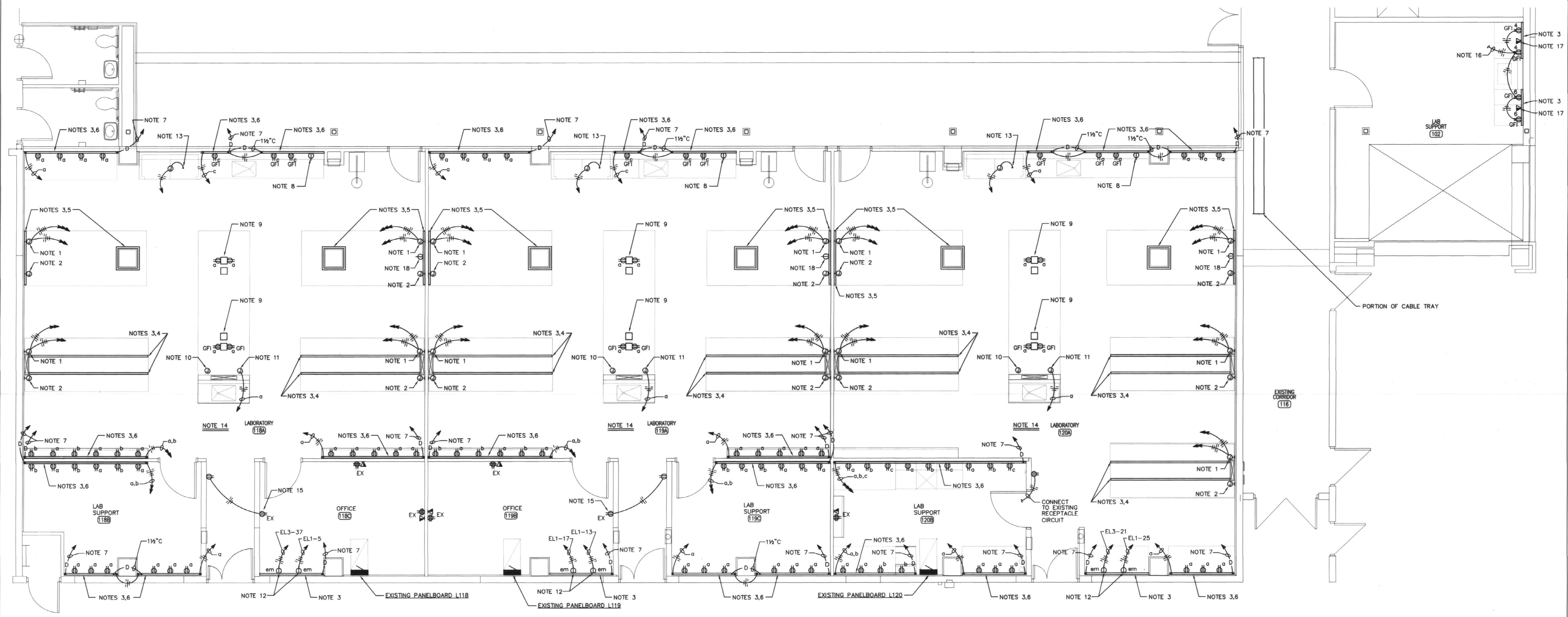


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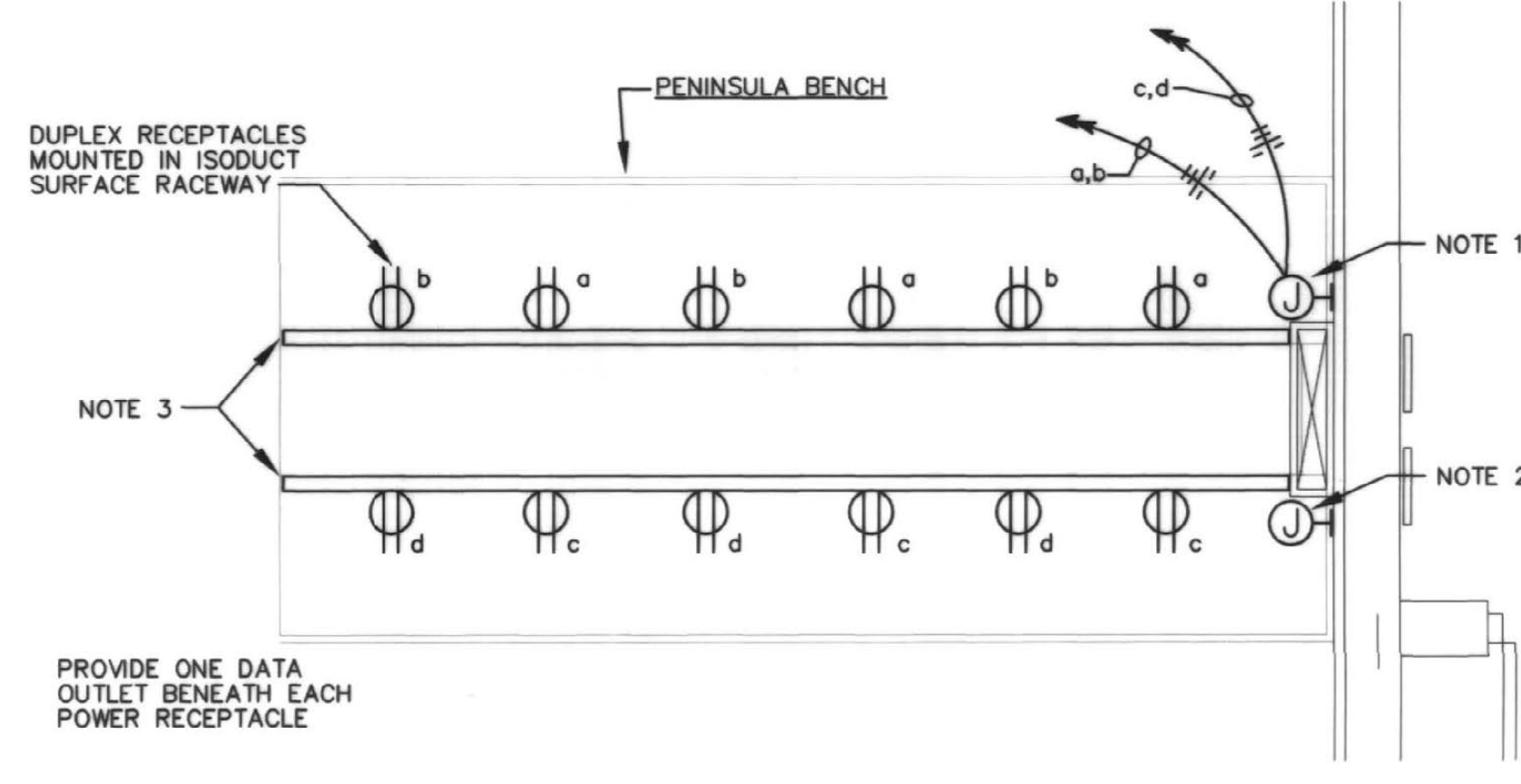
NO.	DESCRIPTION



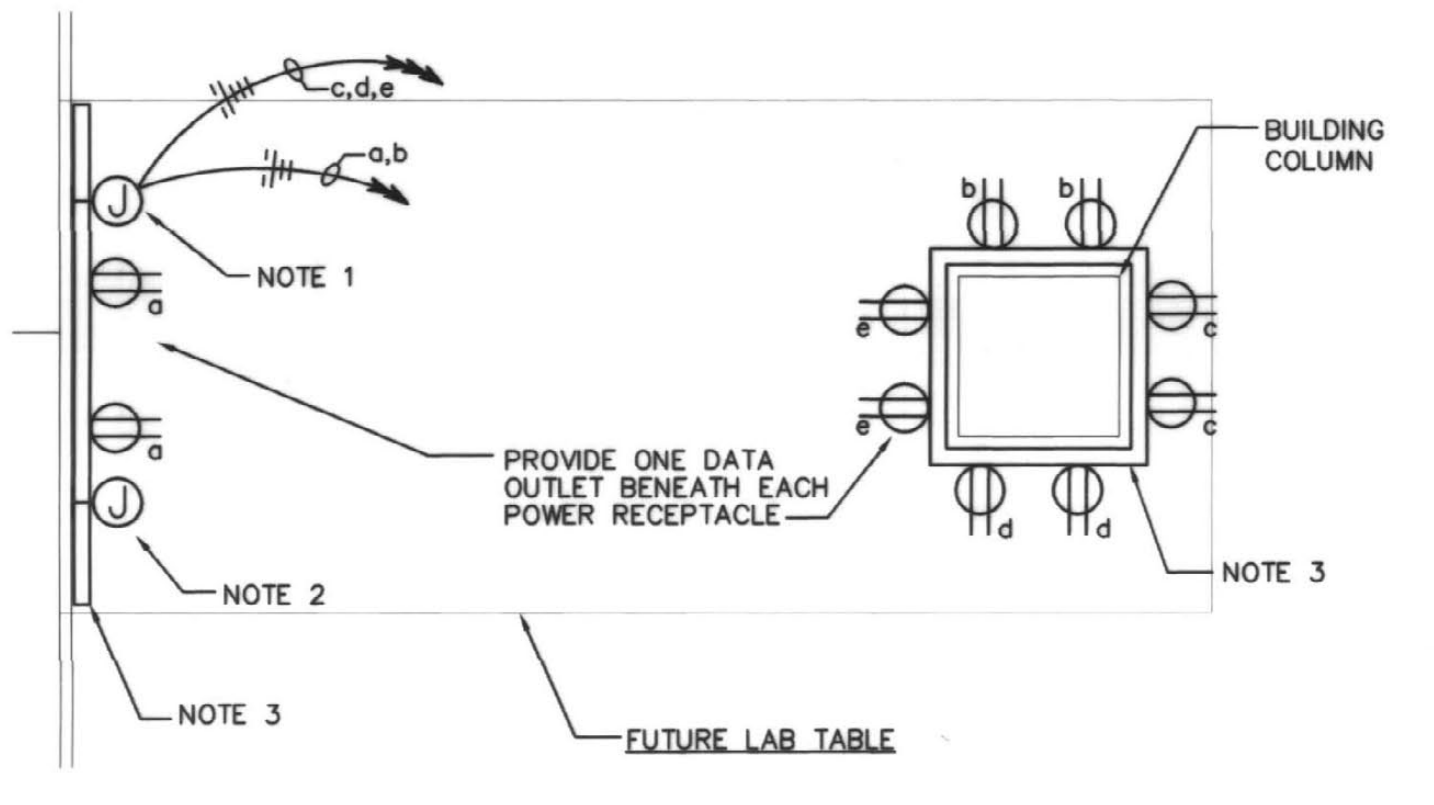
NOTES:

- 1. EXISTING POWER CIRCUIT JUNCTION BOX AT 4'-8" A.F.F. WITH 1 1/2" CONDUIT INTO THE CEILING CAVITY. UTILIZE CONDUIT AND BOX TO ROUTE CIRCUITS INTO POWER PORTION OF SURFACE RACEWAY. PROVIDE RACEWAY AND ALL FITTINGS TO CONNECT BOX TO POWER PORTION OF SURFACE RACEWAY.
- 2. EXISTING DATA CIRCUIT JUNCTION BOX AT 4'-8" A.F.F. WITH 1 1/2" CONDUIT CONNECTED TO CABLE TRAY. THE UNIVERSITY WILL UTILIZE CONDUIT AND BOX TO ROUTE DATA CIRCUITS INTO DATA PORTION OF SURFACE RACEWAY. PROVIDE RACEWAY AND ALL FITTINGS TO CONNECT BOX TO DATA PORTION OF SURFACE RACEWAY.
- 3. TWO COMPARTMENT SURFACE RACEWAY FOR DATA/POWER CIRCUITS. SURFACE RACEWAY SHALL BE WIREMOLD TYPE AL 4800 "ISODUCT" COMPLETE WITH ALL FITTINGS. COORDINATE MOUNTING HEIGHT AND POWER/DATA LOCATIONS WITH LAB CASEWORK DRAWINGS. ISODUCT SHALL BE ENGRAVED WITH THE POWER CIRCUIT PANELBOARD AND CIRCUIT NUMBER AT EACH RECEPTACLE.
- 4. REFER TO PENINSULA BENCH DETAIL A FOR POWER AND DATA OUTLET LOCATIONS AND POWER CIRCUIT ARRANGEMENT.
- 5. REFER TO LAB TABLE DETAIL B FOR POWER AND DATA OUTLET LOCATIONS AND POWER CIRCUIT ARRANGEMENT.
- 6. PROVIDE ONE DATA OUTLET BENEATH EACH POWER RECEPTACLE.
- 7. 1 1/2" CONDUIT WITH PULL STRING TO CABLE TRAY. CONNECT CONDUIT TO DATA COMPARTMENT OF ISODUCT, PROVIDE ALL FITTINGS.
- 8. INSTALL EXISTING 208V, 1Ø RECEPTACLE IN SURFACE RACEWAY. VERIFY THAT RECEPTACLE SERVED FROM 3Ø/2 BREAKER IN PANELBOARD.
- 9. ONE PEDESTAL OUTLET WITH BACK TO BACK 2Ø AMP DUPLEX RECEPTACLES AND ONE PEDESTAL OUTLET WITH PROVISIONS FOR BACK TO BACK DATA OUTLET.
- 10. EXISTING DATA CIRCUIT JUNCTION BOX ABOVE CEILING WITH 1 1/2" CONDUIT CONNECTED TO CABLE TRAY. THE UNIVERSITY WILL UTILIZE CONDUIT AND BOX TO ROUTE DATA CIRCUITS INTO ISLAND BENCH. EXTEND ONE 1" CONDUIT FROM BOX TO EACH DATA PEDESTAL OUTLET. ROUTE CONDUIT IN UMBILICAL AND CONCEALED IN BENCH.
- 11. EXISTING POWER CIRCUIT JUNCTION BOX AT CEILING. ROUTE CIRCUITS FROM BOX DOWN UMBILICAL INTO BENCH AND CONNECT TO POWER PEDESTAL OUTLETS.
- 12. 208/230V, 1Ø, 20A RECEPTACLES CONNECTED TO EMERGENCY PANEL AS INDICATED.
- 13. CONNECT TO PREWIRED FUME HOOD, COORDINATE WITH HOOD INSTALLER.
- 14. ROUTE EACH HOMERUN SHOWN IN THIS ROOM TO THE EXISTING PANELBOARD IN THIS ROOM. HOMERUN ARROWS INDICATE INDIVIDUAL 2Ø AMP CIRCUITS UNLESS NOTED OTHERWISE. COMBINED CIRCUITS UTILIZE COMMON NEUTRAL AND GROUND CONDUCTORS AS SHOWN. LOWER CASE LETTERS INDICATE CIRCUIT ARRANGEMENT. UTILIZE AVAILABLE CIRCUIT BREAKERS IN PANELBOARD TO SERVE LOADS.
- 15. CONNECT TO EXISTING RECEPTACLE CIRCUIT.
- 16. EXISTING CIRCUITS CP1-4,6 ARE ROUGH-IN AT ISODUCT. CONNECT ISODUCT RECEPTACLES TO THESE CIRCUITS AS INDICATED.
- 17. DATA OUTLET IN ISODUCT. EXTEND ONE 1 1/2" INCH CONDUIT WITH PULL STRING FROM ISODUCT AND CONNECT TO CABLE TRAY IN CORRIDOR 116.
- 18. INSTALL 25A, 208/230V RECEPTACLE IN ISODUCT. CONNECT RECEPTACLE TO EXISTING CIRCUIT AT THIS LOCATION.

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



PENINSULA BENCH CIRCUIT ARRANGEMENT DETAIL A
SCALE: NONE



LAB TABLE CIRCUIT ARRANGEMENT DETAIL B
SCALE: NONE

20/1	1	2	20/1
20/1	3	4	20/1
20/1	5	6	30/2
20/1	7	8	30/2
20/1	9	10	30/2
20/1	11	12	20/1
20/1	13	14	20/2
20/1	15	16	20/1
20/1	17	18	20/1
20/1	19	20	20/1
20/1	21	22	20/1
20/1	23	24	20/1
20/1	25	26	20/1
20/1	27	28	20/1
20/1	29	30	20/1
20/1	31	32	20/1
20/1	33	34	20/1
20/1	35	36	20/1
20/1	37	38	20/1
20/1	39	40	20/1
20/1	41	42	20/1

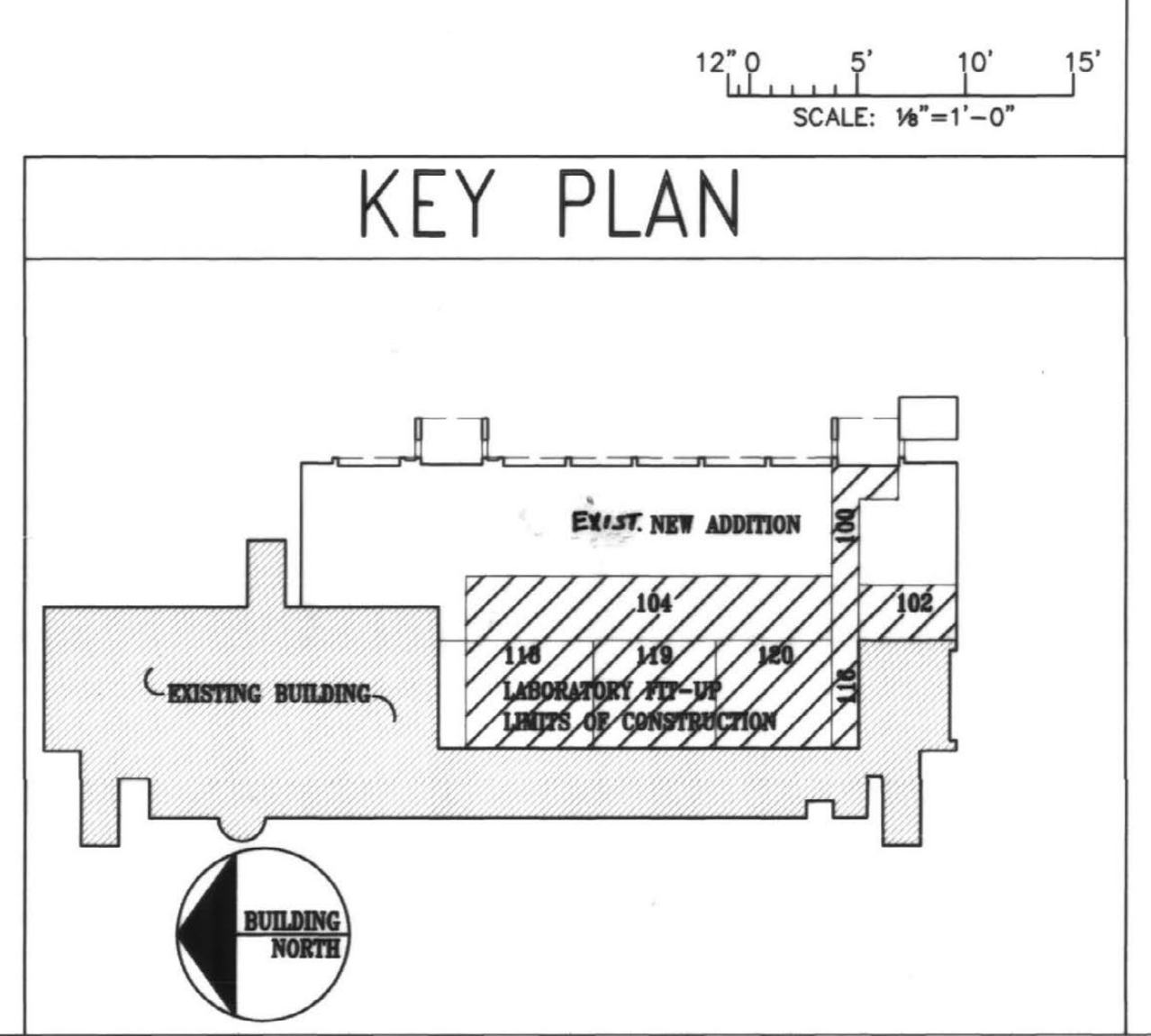
EXISTING PANELBOARD "L118"
225A, 208Y/120V, 3Ø, 4W
RECESS MOUNT
42 SPACE
*UTILIZE AVAILABLE CIRCUIT BREAKERS TO SERVICE LAB LOADS. REVISE PANEL INDEX.

20/1	1	2	20/1
20/1	3	4	20/1
20/1	5	6	30/2
20/1	7	8	30/2
20/1	9	10	30/2
20/1	11	12	20/1
20/1	13	14	20/2
20/1	15	16	20/1
20/1	17	18	20/1
20/1	19	20	20/1
20/1	21	22	20/1
20/1	23	24	20/1
20/1	25	26	20/1
20/1	27	28	20/1
20/1	29	30	20/1
20/1	31	32	20/1
20/1	33	34	20/2
20/1	35	36	20/1
20/1	37	38	20/1
20/1	39	40	20/2
20/1	41	42	20/1

EXISTING PANELBOARD "L119"
225A, 208Y/120V, 3Ø, 4W
RECESS MOUNT
42 SPACE
*UTILIZE AVAILABLE CIRCUIT BREAKERS TO SERVICE LAB LOADS. REVISE PANEL INDEX.

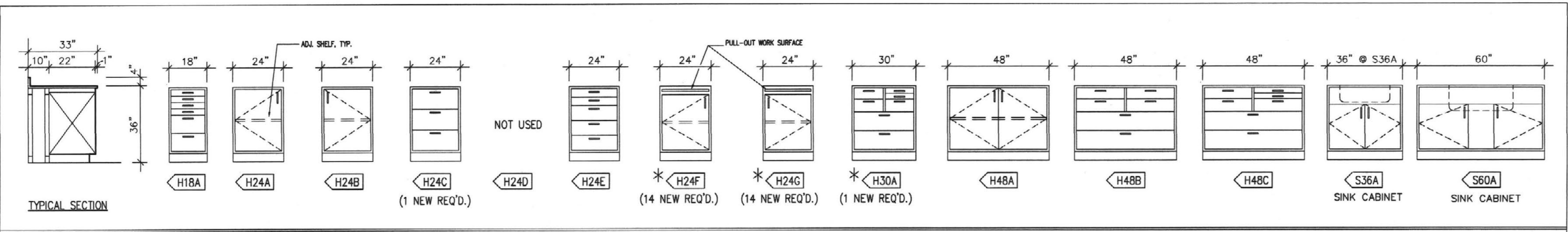
20/1	1	2	20/1
20/1	3	4	20/1
20/1	5	6	30/2
20/1	7	8	30/2
20/1	9	10	30/2
20/1	11	12	20/1
20/1	13	14	20/2
20/1	15	16	20/1
20/1	17	18	20/1
20/1	19	20	20/1
20/1	21	22	20/1
20/1	23	24	20/1
20/1	25	26	20/1
20/1	27	28	20/1
20/1	29	30	20/1
20/1	31	32	20/2
20/1	33	34	20/1
20/1	35	36	20/2
20/1	37	38	20/1
20/1	39	40	20/2
20/1	41	42	20/1

EXISTING PANELBOARD "L120"
225A, 208Y/120V, 3Ø, 4W
RECESS MOUNT
42 SPACE
*UTILIZE AVAILABLE CIRCUIT BREAKERS TO SERVICE LAB LOADS. REVISE PANEL INDEX.

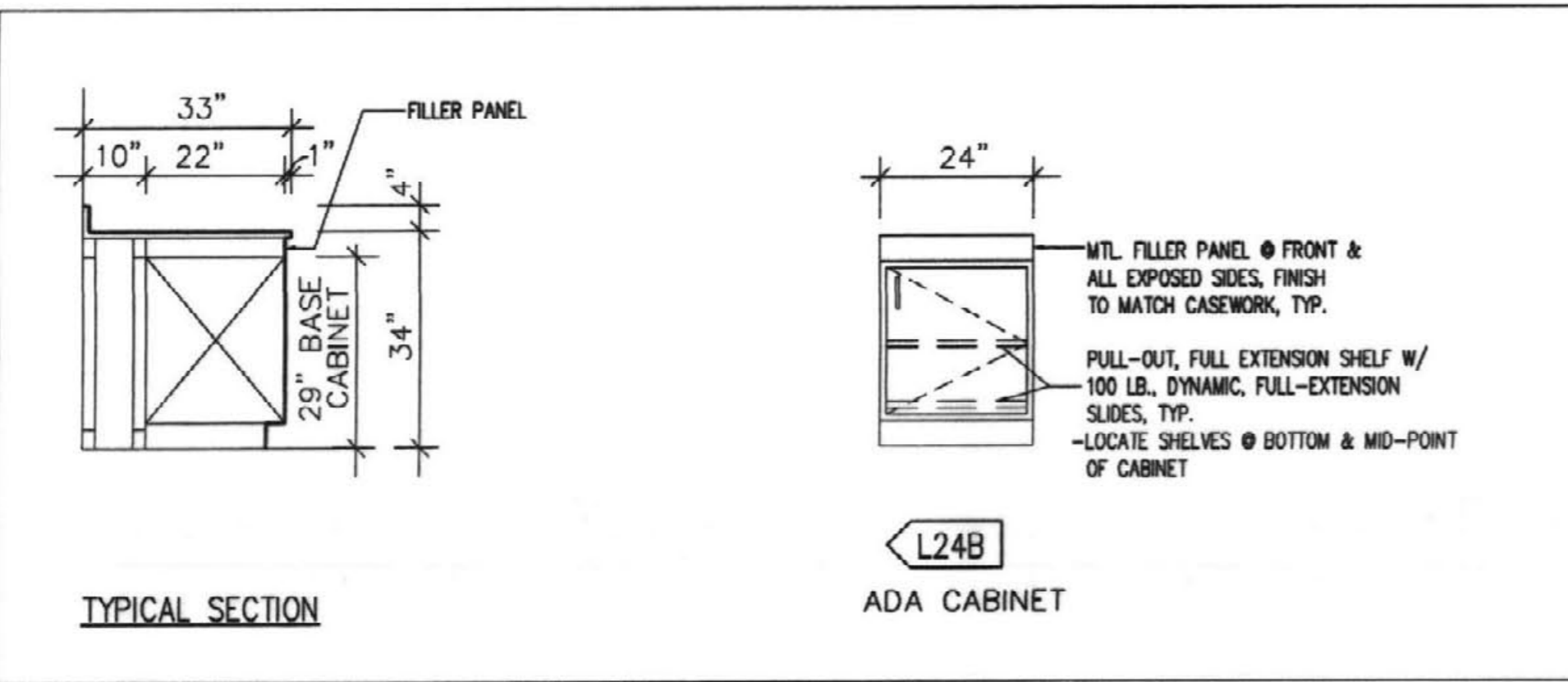


KEY PLAN

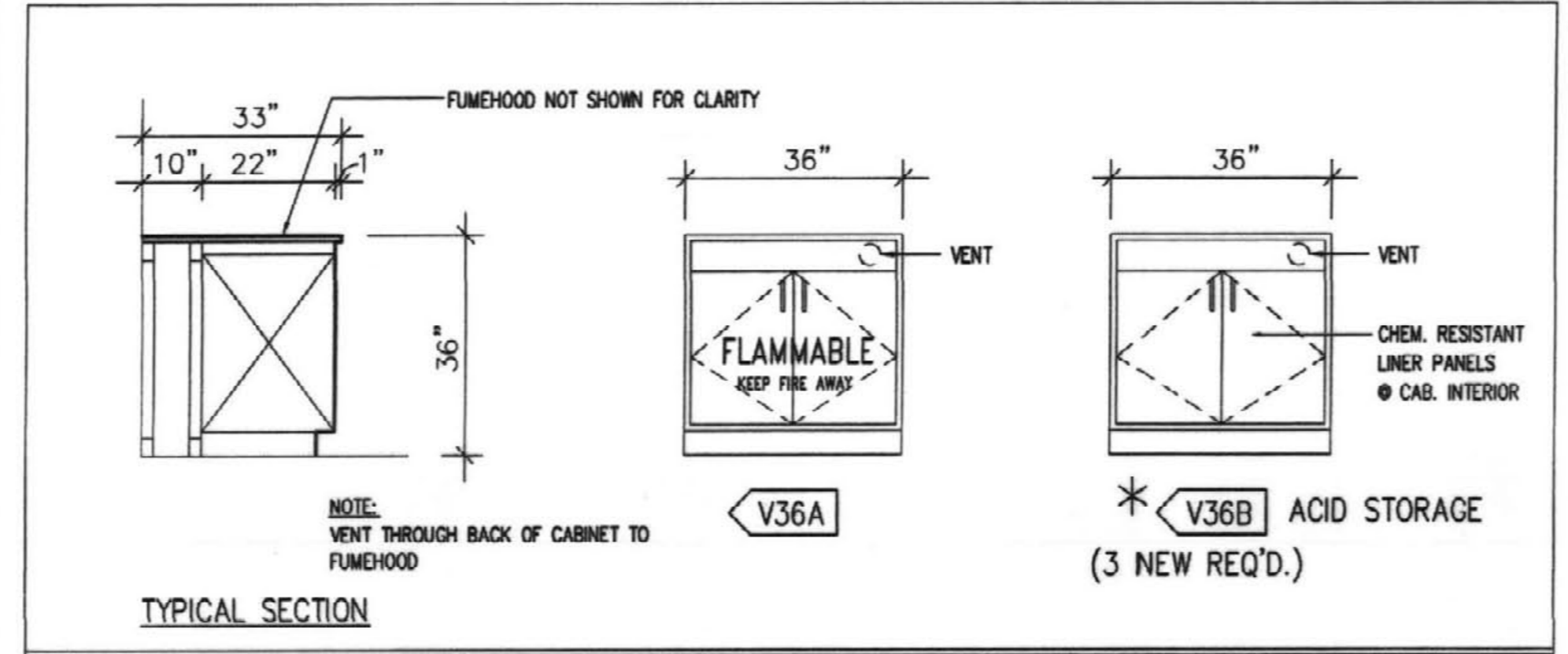
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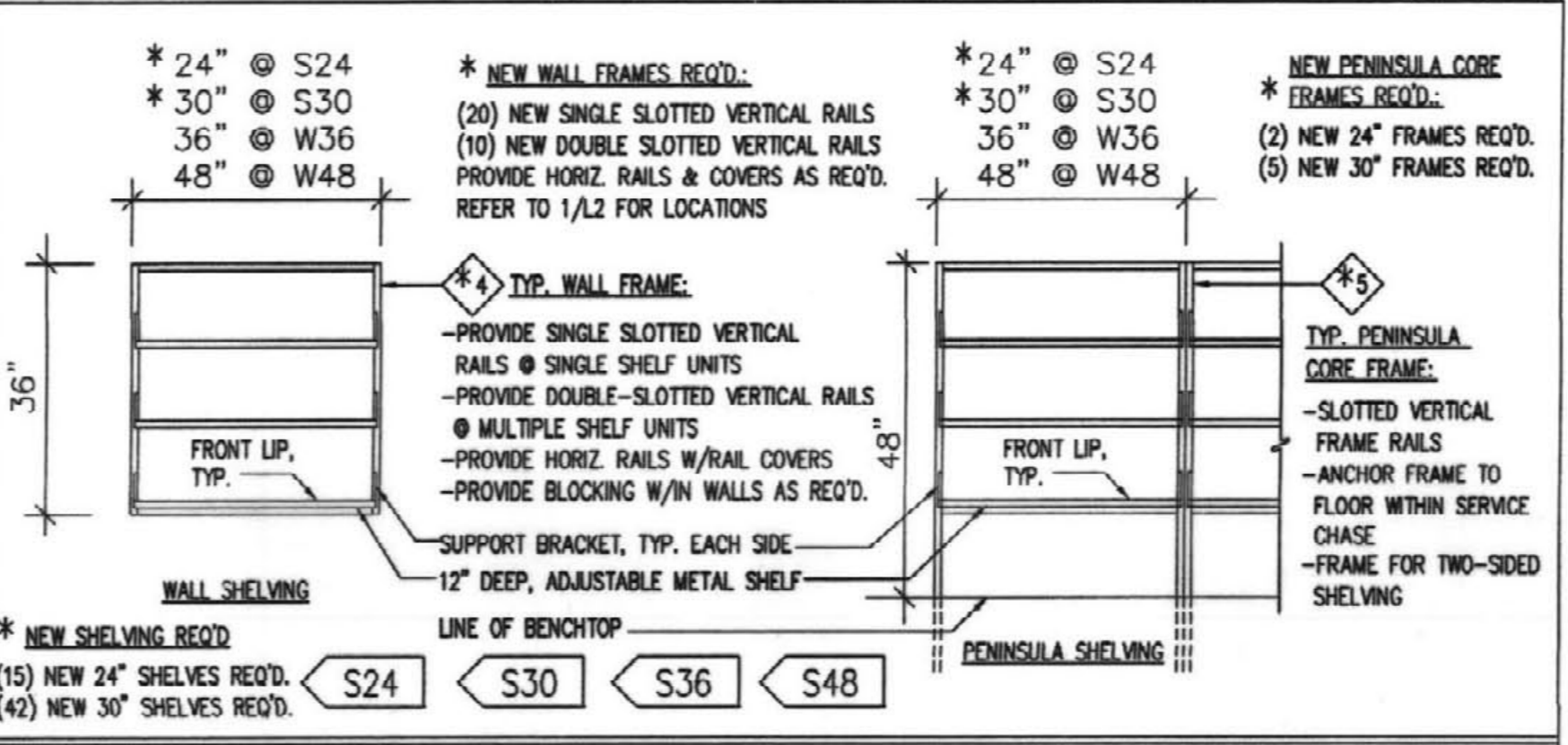
STANDING HEIGHT BASE CABINETS SCALE: 1/2"=1'-0"



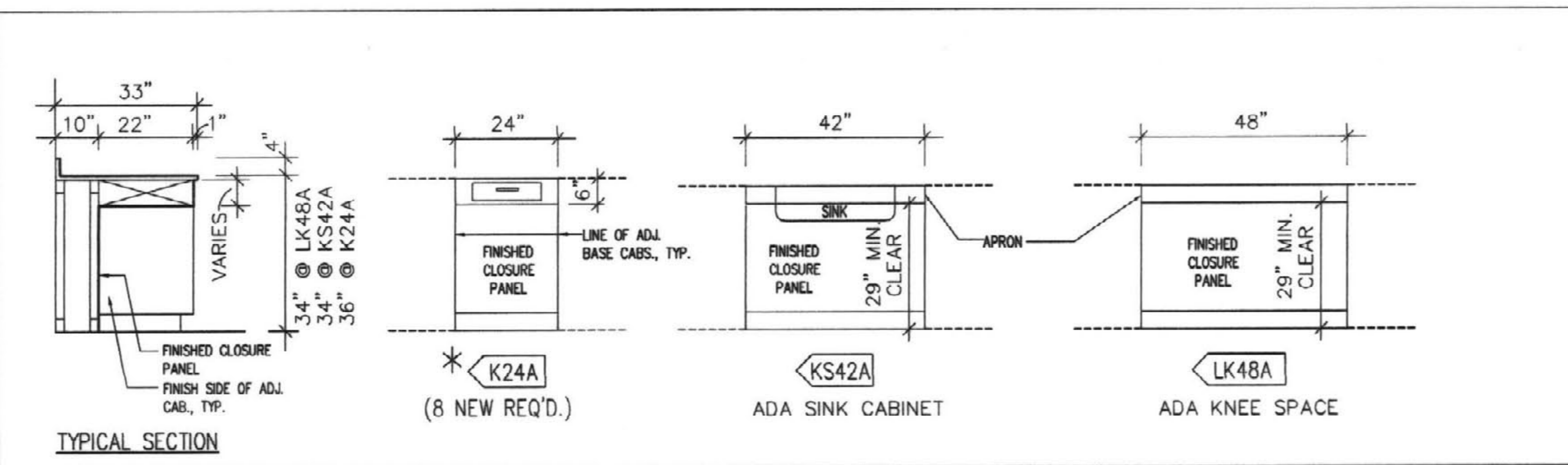
SITTING HEIGHT BASE CABINETS SCALE: 1/2"=1'-0"



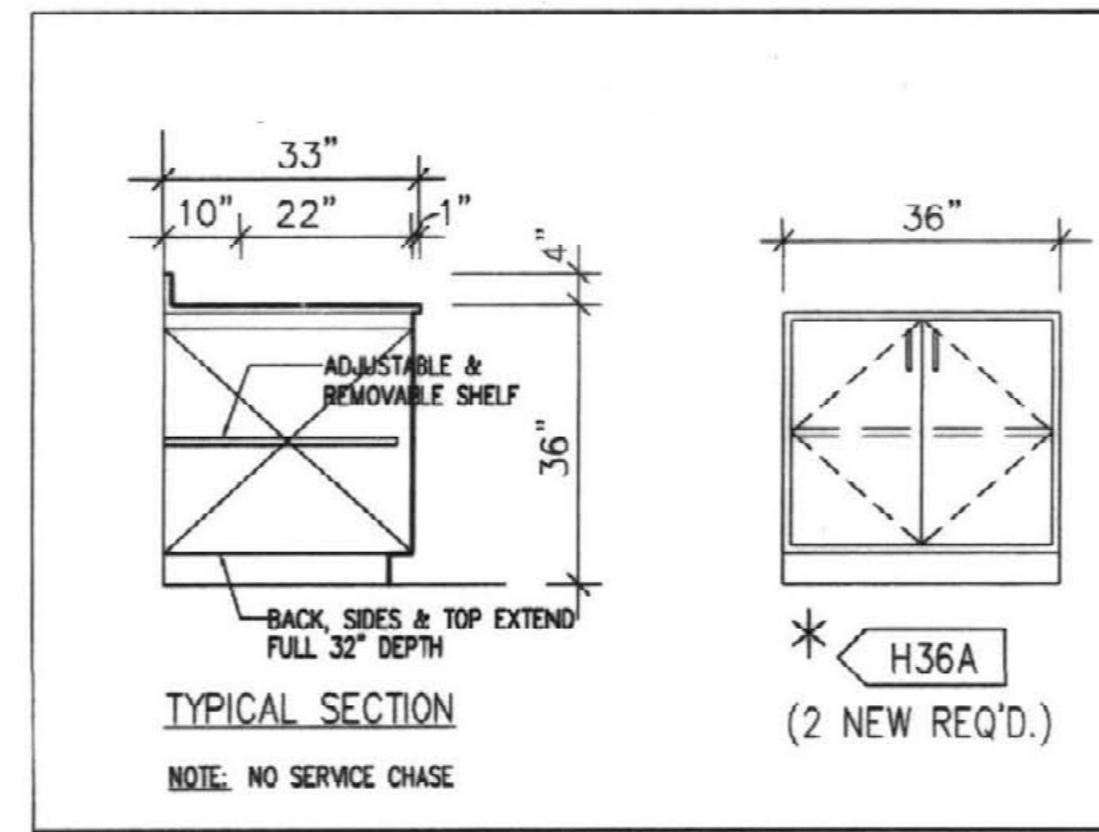
VENTED BASE CABINETS SCALE: 1/2"=1'-0"



WALL & PENINSULA SHELVING SCALE: 1/2"=1'-0"



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

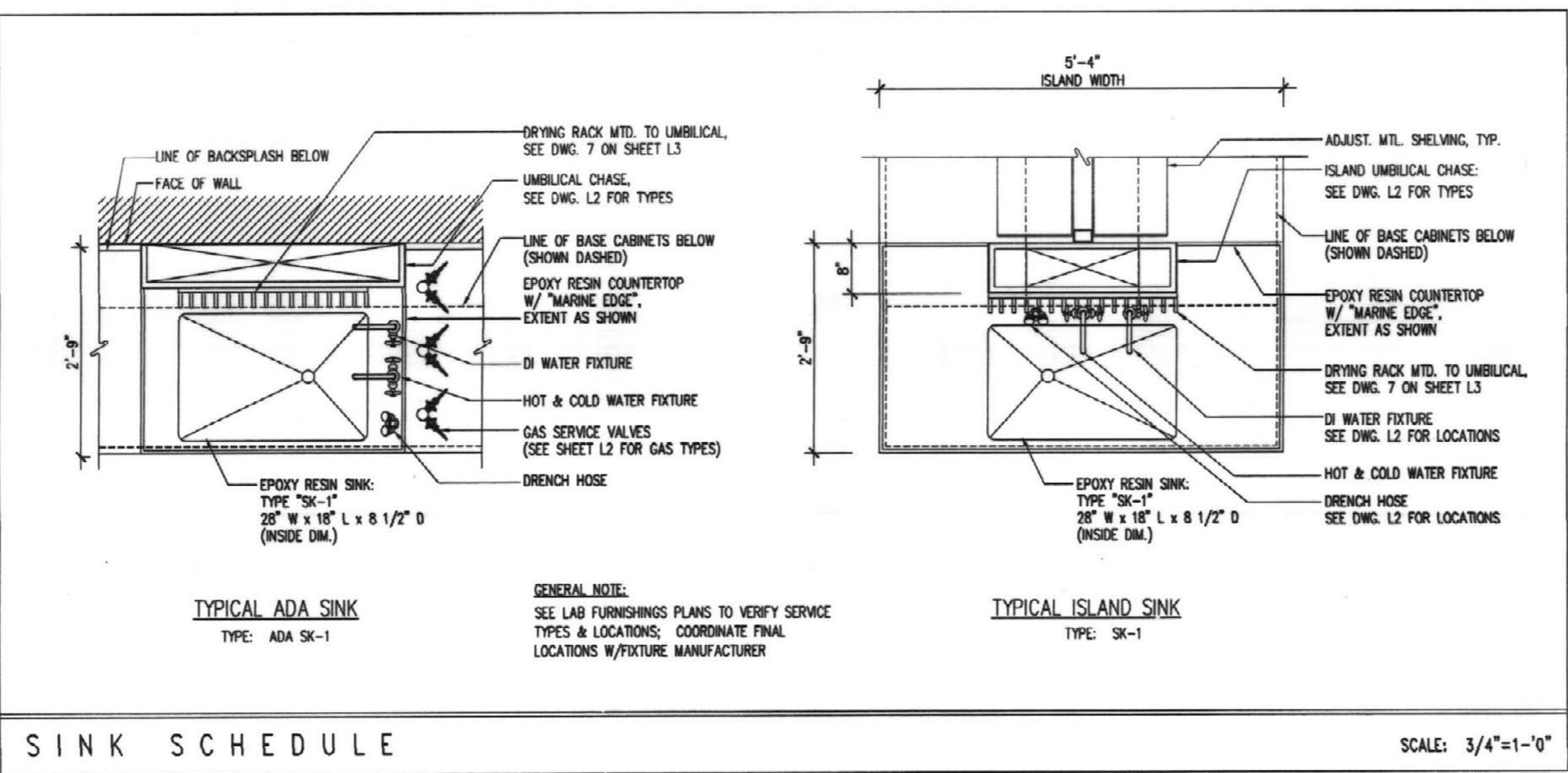


SPECIALTY BASE CABINETS SCALE: 1/2"=1'-0"

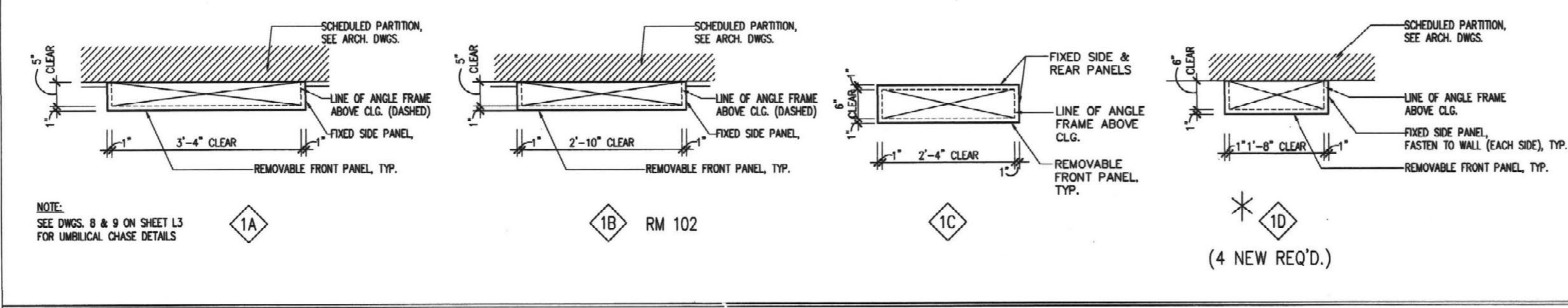
DRAWINGS L-1, L-2, AND L-3 ARE INCLUDED WITHIN THIS BID SET FOR GENERAL CONTRACTOR COORDINATION. THE CASEWORK, ACCESSORIES AND CASEWORK INSTALLATION SHALL BE PROVIDED UNDER SEPARATE CONTRACT. THIS BID SHALL INCLUDE THE UTILITY HOOKUP FOR CASEWORK: PLUMBING, EXHAUST, ELECTRICAL AND OTHER UTILITIES TO COMPLETE THE INSTALLATION OF THE LABORATORY CASEWORK AND ACCESSORIES.

GENERAL NOTES:

1. THE SCOPE FOR LABORATORY CASEWORK AND ACCESSORIES ARE AS SHOWN ON DWGS L1, L2, AND L3 FOR ROOMS 102, 118, 119, AND 120.
2. *(ASTERISK) INDICATES NEW MATERIALS (IE. CASEWORK, WALL SHELVES ECT...) TO BE PURCHASED BY OWNER & INSTALLED BY THE LABORATORY CASEWORK VENDER
3. ITEMS NOT DESIGNATED WITH AN ASTERISK INDICATE EXISTING MATERIALS TO BE PROVIDED BY OWNER, AND INSTALLED BY THE LABORATORY CASEWORK VENDER.
4. SEE SPECIFICATION SECTION 12345 FOR INSTALLATION REQUIREMENTS OF EXISTING MATERIALS
5. SEE DWG. 1/L1 FOR LABORATORY LAYOUT, SPECIFIC LOCATIONS OF NEW & EXISTING MATERIALS & QUANTITIES OF NEW MATERIALS
6. SEE DWG. 2/L1 FOR EXISTING & NEW EPOXY COUNTERTOP LAYOUT, PROVIDED & INSTALLED BY THE LABORATORY CASEWORK VENDER.
7. UTILITY INSTALLATION IE POWER/DATA RACEWAY, PLUMBING, GAS, AIR, VAC, HOOD EXHAUST, ETC. SHALL BE CONNECTED UNDER SEPARATE BID. THE LABORATORY CASEWORK VENDER SHALL COORDINATE ALL INSTALLATION REQUIREMENTS WITH THE GENERAL CONTRACTOR.



SINK SCHEDULE SCALE: 3/4"=1'-0"



UMBILICAL CHASE SCHEDULE SCALE: 3/4"=1'-0"

	UMBILICAL CHASE -SEE LAB PLANS ON SHEET L2 FOR UMBILICAL LOCATIONS -SEE UMBILICAL CHASE SCHEDULE ON SHEET L1 FOR DIMS.
	ST. STL. GLASSWARE DRYING RACK -SEE LAB PLANS ON SHEET L2 FOR LOCATIONS
	ELEC./DATA ALUM. RACEWAY, -120 V OUTLETS @ 24" O.C. TYP. -208V OUTLETS SHOWN ON PLANS -SEE ELEC. DWGS. & SPEC. DIV.16
	ADJUSTABLE SHELVING WALL FRAME -SEE LAB PLANS ON SHEET L2 FOR LOCATIONS -SEE SPEC. DIV. 12345
	ADJUSTABLE SHELVING PENINSULA FRAME -SEE LAB PLANS ON SHEET L2 FOR LOCATIONS -SEE SPEC. DIV. 12345
	CHEMICAL FUME HOOD -SEE LAB PLANS ON SHEET L2 FOR LOCATIONS -SEE FUMEHOOD/BIO-SAFETY SCHEDULE ON SHEET L1
	BIO-SAFETY CABINET -SEE LAB PLANS ON SHEET L2 FOR LOCATIONS -SEE FUMEHOOD/BIO-SAFETY SCHEDULE ON SHEET L1
	EPOXY RESIN SINK -SEE LAB PLANS ON SHEET L2 FOR LOCATIONS -SEE SINK SCHEDULE ON SHEET L1 FOR TYP. CONFIGURATIONS & TYPES
	EMERGENCY SHOWER & EYEWASH -SEE LAB PLANS ON SHEET L2 FOR LOCATIONS -SEE SPEC. DIV. 15
	DOUBLE OUTLET, DECK-MOUNTED TURRET -45' CONFIGURATION -SERVICES AS SHOWN ON LAB PLANS, SHEET L2
	4-WAY OUTLET, DECK-MOUNTED TURRET -180' CONFIGURATION -SERVICES AS SHOWN ON LAB PLANS, SHEET L2
	DOUBLE OUTLET, PANEL-MOUNTED TURRET -45' CONFIGURATION -SERVICES AS SHOWN ON LAB PLANS, SHEET L2
	EPOXY HANGING -DOUBLE GANG -DOUBLE FACE * 9 NEW REQ'D.
	CASEWORK IDENTIFICATION KEY -SEE SCHEDULE, THIS SHEET -SEE LAB PLANS ON SHEET L2 FOR CASEWORK LAYOUT
A	COMPRESSED AIR
G	LABORATORY GAS
V	VACUUM
CW HW	DESIGN MFR.: WATERSAVER # L414VB55 HOT & COLD WATER SWIVEL, MIXING FAUCET W/VACUUM BREAKER -SEE LAB PLANS ON SHEET L2 FOR LOCATIONS
DI	DESIGN MFR.: WATERSAVER # L7833 DEIONIZED WATER FAUCET W/ VACUUM BREAKER -SEE LAB PLANS ON SHEET L2 FOR LOCATIONS
DH	DESIGN MFR.: WATERSAVER # EW1022 DECK-MOUNTED DRENCH HOSE -SEE LAB PLANS ON SHEET L2 FOR LOCATIONS
EP	FINISHED END PANEL -BY CASEWORK MFR.
FP	CASEWORK FILLER PANEL (MIN. 2" WIDE) -BY CASEWORK MFR.
+34"	ADA COMPLIANT INDICATES WORK SURFACE ELEV. ABV. FINISH FLOOR
+36"	

LABORATORY SYMBOLS & ABBREVIATIONS

NUMBER	DESCRIPTION	FACE VELOCITY	CFM	SP	COLLAR SIZE	SASH TYPE	SASH OPENING	AIR FOIL AREA	LINER MATERIAL	NOTES
CFH-1	72" ADA CHEMICAL HOOD	100 FPM	785 CFM	0.13	6" x 23"	VERTICAL	18"	63 SQ. IN.	POLYRESIN	1, 2, 3, 4
BSC-1	72" BIO-SAFETY CABINET	-	-	-	-	-	-	-	-	5
BSC-2	60" BIO-SAFETY CABINET	-	-	-	-	-	-	-	-	5

NOTES:
 1. EPOXY RESIN BENCHTOP
 2. ALL HOODS SHALL BE PRE-PIPED & PRE-WIRED
 3. OWNER FURNISHED & LABORATORY CASEWORK VENDER INSTALLED, UTILITY HOOKUP PER SEPARATE BID.
 4. SEE DWG. 6 ON SHEET L3 FOR FUMEHOOD SECTION & ELEVATION
 5. FUTURE EQUIPMENT PROVIDED AND INSTALLED BY THE OWNER

FUMEHOOD & B O-SAFETY CABINET SCHEDULE

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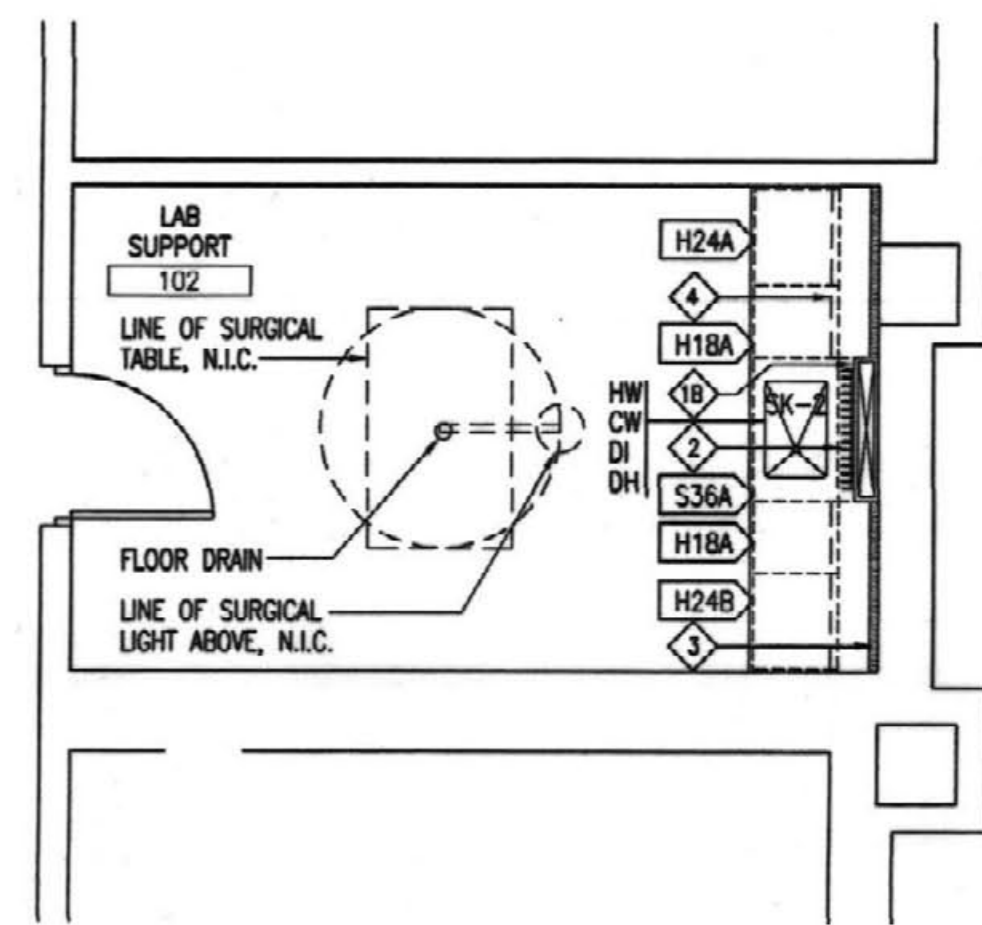
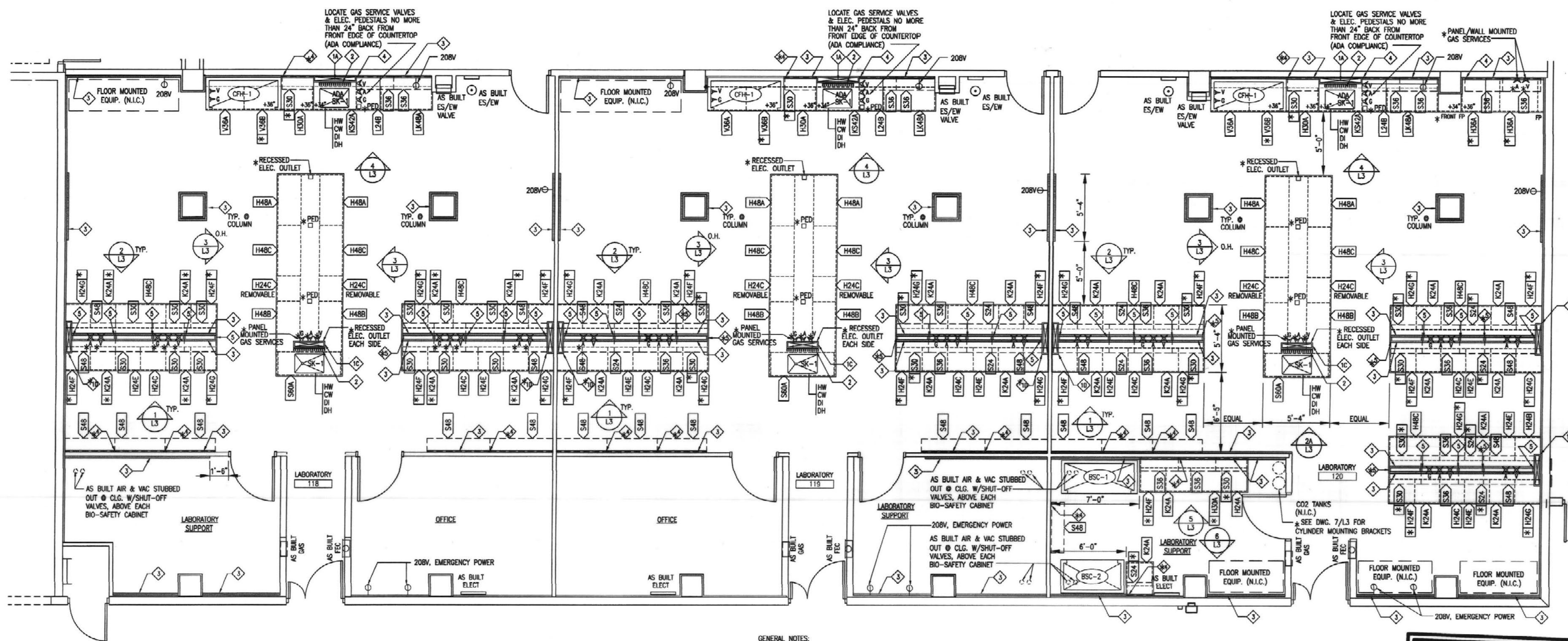
LABORATORY CASEWORK
 ELEVATIONS & GENERAL
 NOTES
 ROOMS 102, 118, 119, AND 120

SHEPHERD-CARTER, BARNHART PSC
 ARCHITECTURE . LANDSCAPE ARCHITECTURE . CIVIL ENGINEERING
 2405 HARRODSBURG ROAD . LEWINGTON, KY 40504 . PH: 606-224-1351 . FAX: 606-224-9446

JOB NO. 0146A
 DATE November 12, 2002
 DRAWN C Mummert
 CHECKED B Latham
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 SHERMAN / CARTER /
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REVISIONS

SHEET
L1



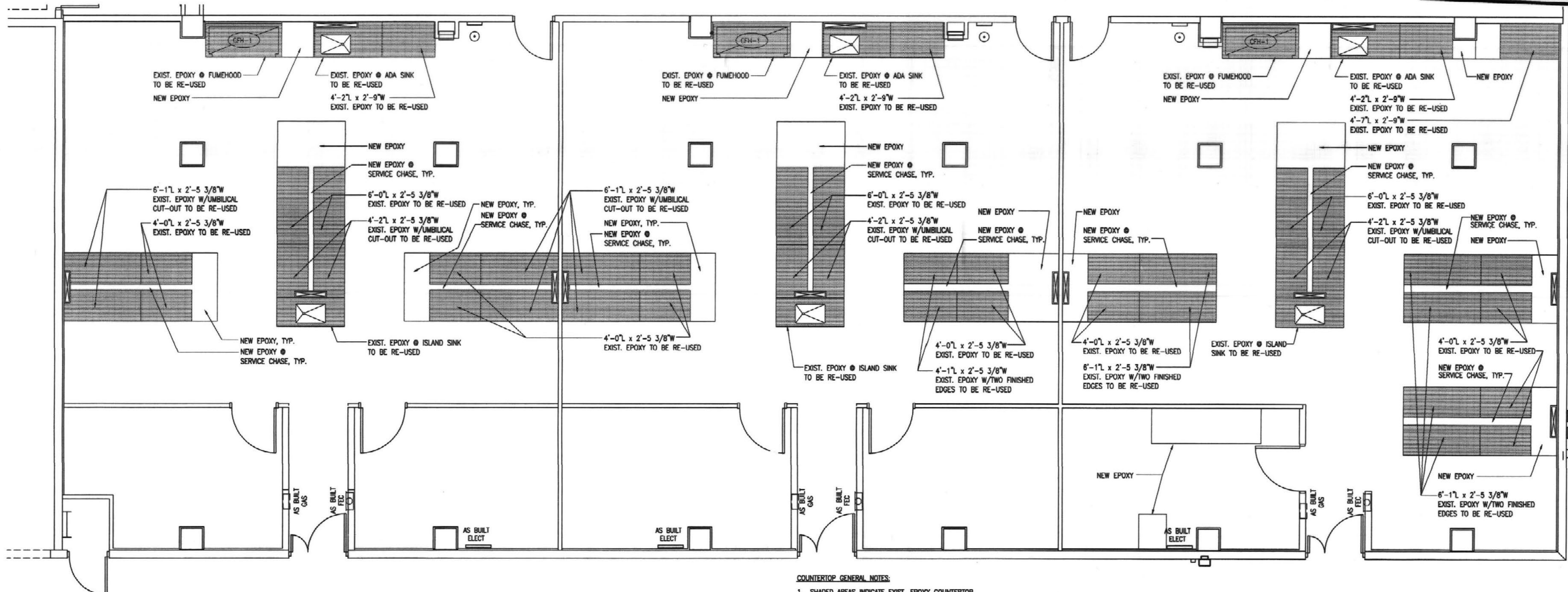
GENERAL NOTES:

1. REFER TO SHEET L1 FOR ADDITIONAL NOTES SYMBOLS & ABBREVIATIONS
2. LAYOUT DIMENSIONS SHOWN IN RM. #120 ARE TYP. FOR RMs. #118 & #119
3. (ASTERISKS) INDICATES NEW MATERIALS (I.E. CASEWORK, WALL SHELVES, ETC.) TO BE PURCHASED BY OWNER & INSTALLED BY LABORATORY CASEWORK VENDOR
4. ITEMS NOT DESIGNATED WITH AN ASTERISK INDICATE EXISTING MATERIALS TO BE PROVIDED BY OWNER, AND INSTALLED BY LABORATORY CASEWORK VENDOR
5. SEE SPECIFICATION SECTION 12345 FOR INSTALLATION REQUIREMENTS OF EXISTING MATERIALS
6. SEE DMC 2/11 FOR EXISTING & NEW EPOXY COUNTERTOP LAYOUT, PROVIDED & INSTALLED BY LABORATORY CASEWORK VENDOR

1 LABORATORY FURNISHING PLAN

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

DRAWINGS L-1, L-2, AND L-3 ARE INCLUDED WITHIN THIS BID SET FOR GENERAL CONTRACTOR COORDINATION. THE CASEWORK, ACCESSORIES AND CASEWORK INSTALLATION SHALL BE PROVIDED UNDER SEPARATE CONTRACT. THIS BID SHALL INCLUDE THE UTILITY HOOKUP FOR CASEWORK: PLUMBING, EXHAUST, ELECTRICAL AND OTHER UTILITIES TO COMPLETE THE INSTALLATION OF THE LABORATORY CASEWORK AND ACCESSORIES.



COUNTERTOP GENERAL NOTES:

1. SHADED AREAS INDICATE EXIST. EPOXY COUNTERTOP TO BE INSTALLED BY LABORATORY CASEWORK VENDOR
2. OTHER AREAS OF EPOXY COUNTERTOP TO BE PROVIDED & INSTALLED BY LABORATORY CASEWORK VENDOR
3. LABORATORY CASEWORK VENDOR SHALL PROVIDE ALL REQUIRED BACKPLATES, SIDESPLASHES & COUNTERTOP SEALANTS & ACCESSORIES AS REQ'D.

2 EPOXY COUNTERTOP RE-USE PLAN

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

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Laboratory Fit-Up
University of Kentucky

LABORATORY
FURNISHINGS
PLANS

Flad & Associates

Sherman Carter Barnhart PSC
ARCHITECTURE • LANDSCAPE ARCHITECTURE • CIVIL ENGINEERING
2405 HARRISBURG ROAD • LEXINGTON, KY 40504 • PH: 859-224-1351 • FAX: 859-224-8446

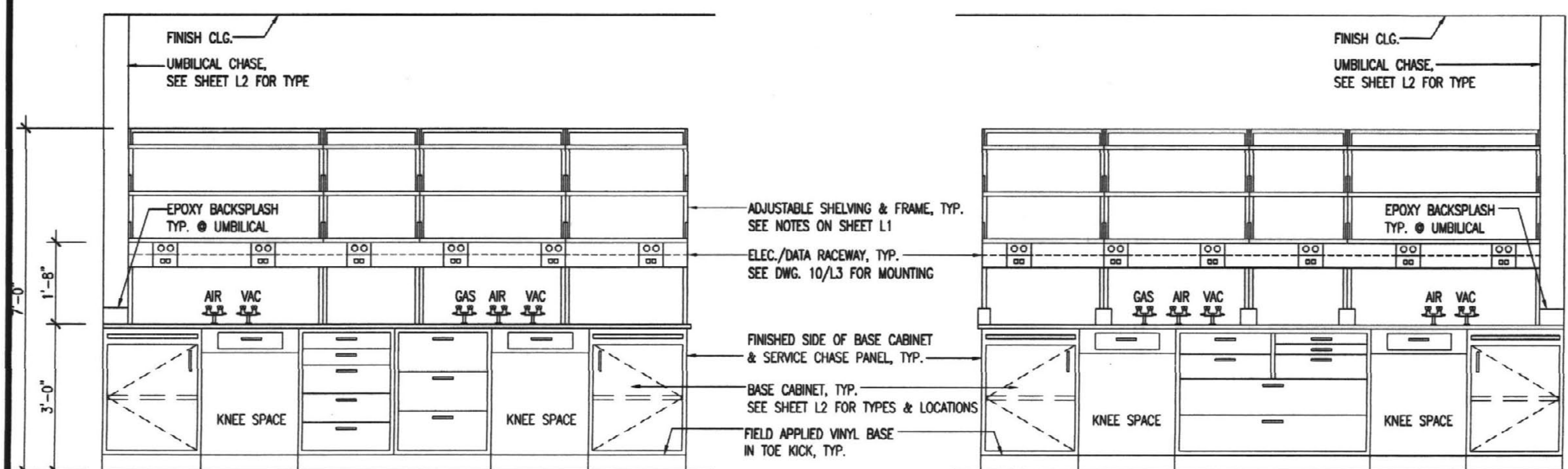
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DRAWN C Mummert
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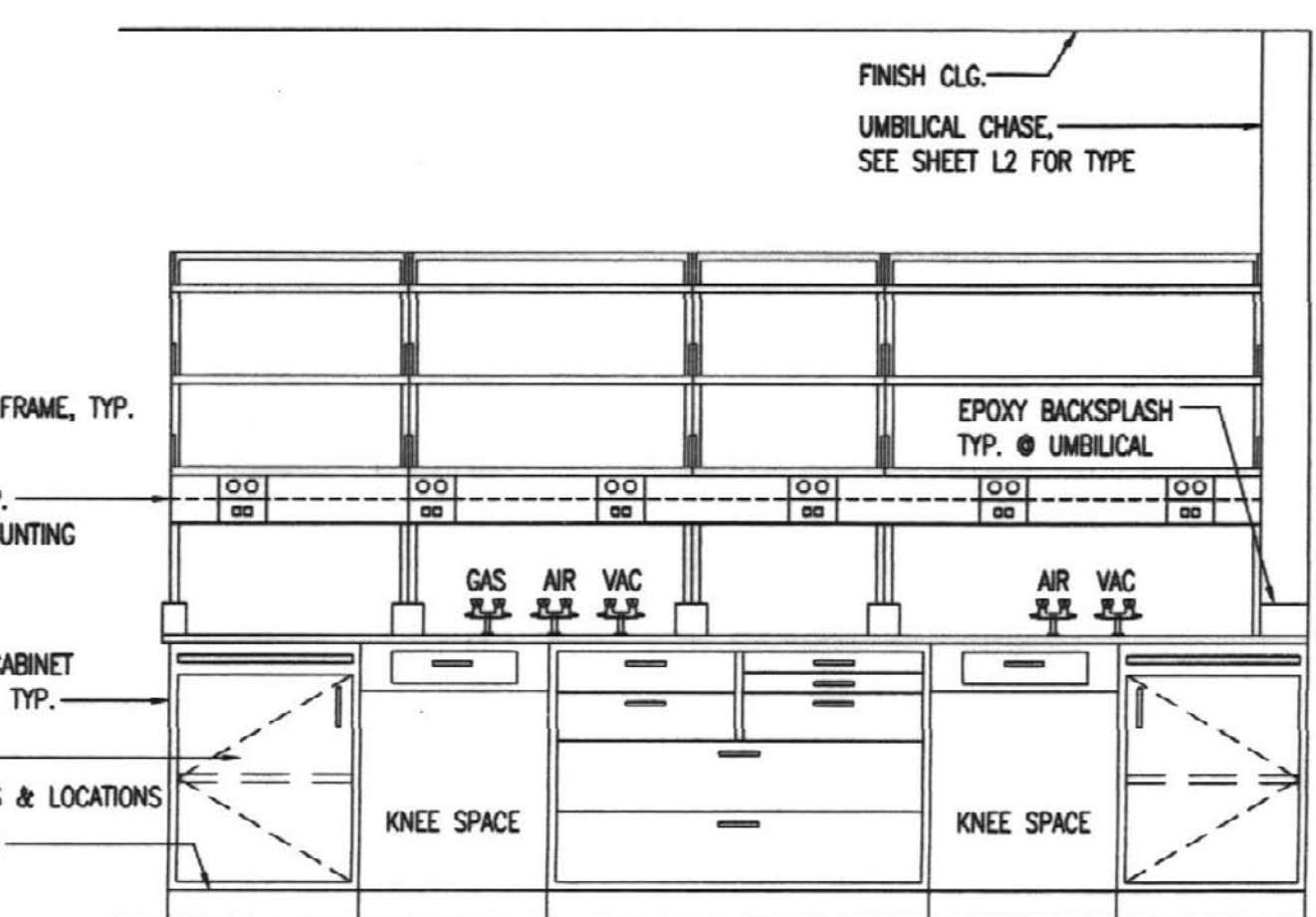
SHEET

L2

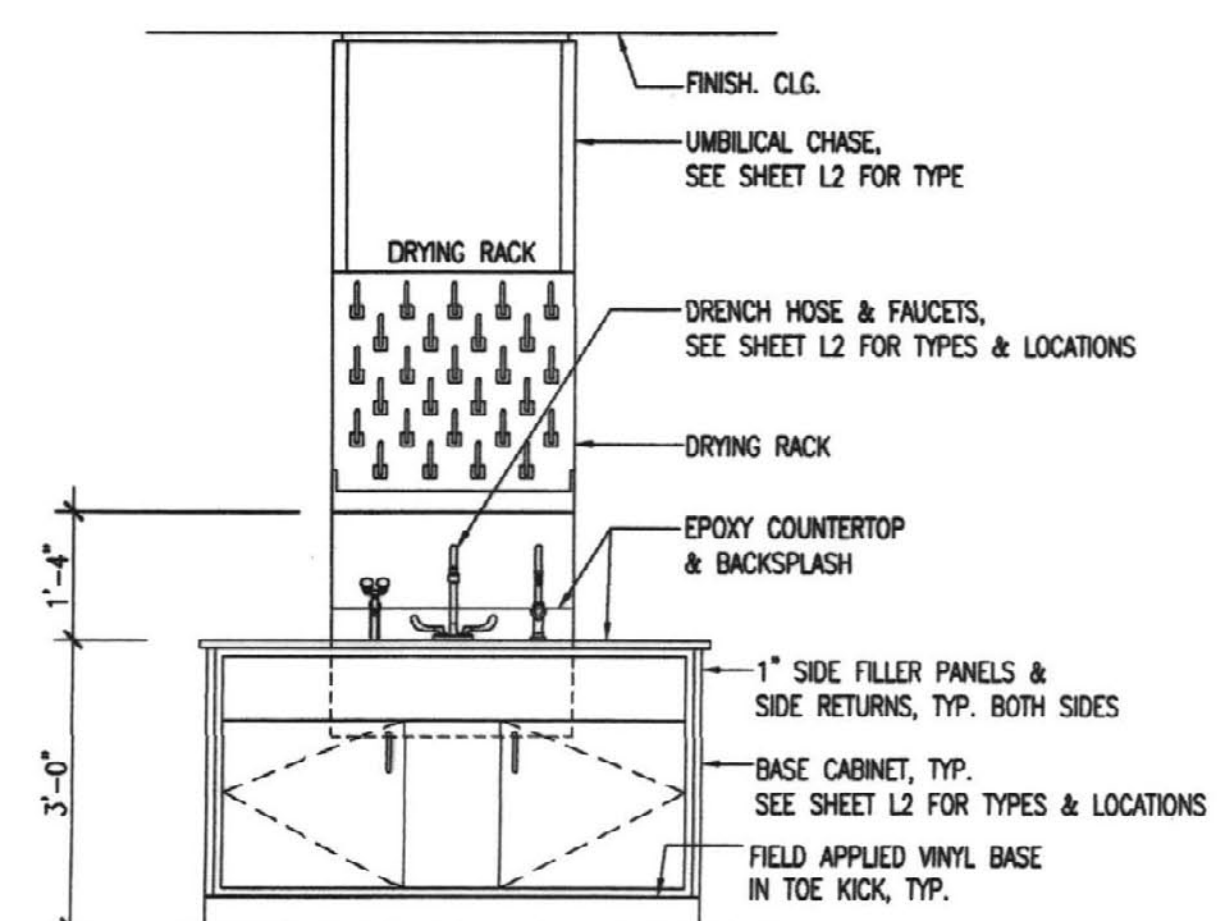
DRAWINGS L-1, L-2, AND L-3 ARE INCLUDED WITHIN THIS BID SET FOR GENERAL CONTRACTOR COORDINATION. THE CASEWORK, ACCESSORIES AND CASEWORK INSTALLATION SHALL BE PROVIDED UNDER SEPARATE CONTRACT. THIS BID SHALL INCLUDE THE UTILITY HOOKUP FOR CASEWORK: PLUMBING, EXHAUST, ELECTRICAL AND OTHER UTILITIES TO COMPLETE THE INSTALLATION OF THE LABORATORY CASEWORK AND ACCESSORIES.



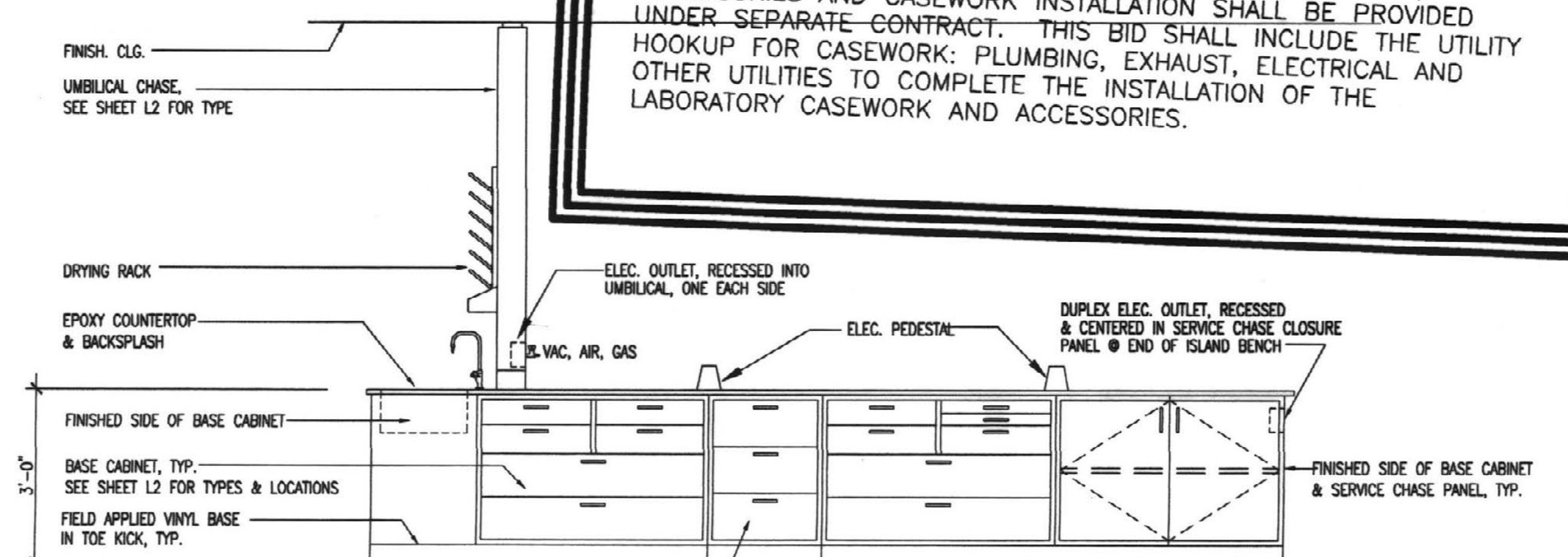
1 TYP. PENINSULA BENCH: SIDE ELEVATION
SCALE: 1/2"=1'-0"



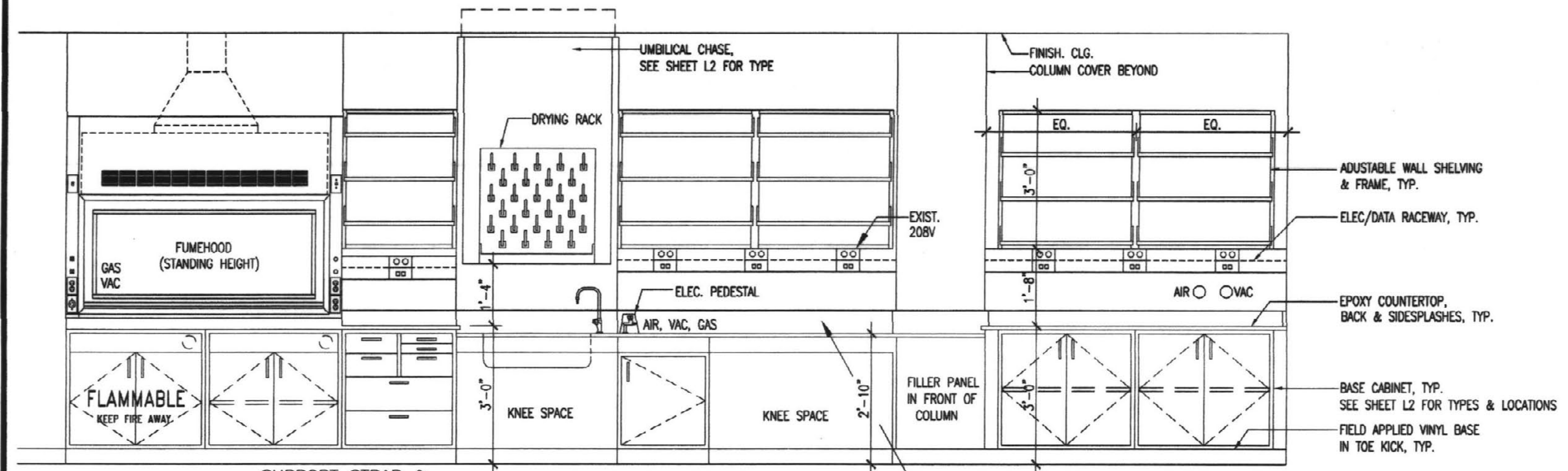
2 TYP. PENINSULA BENCH: SIDE ELEVATION
SCALE: 1/2"=1'-0"



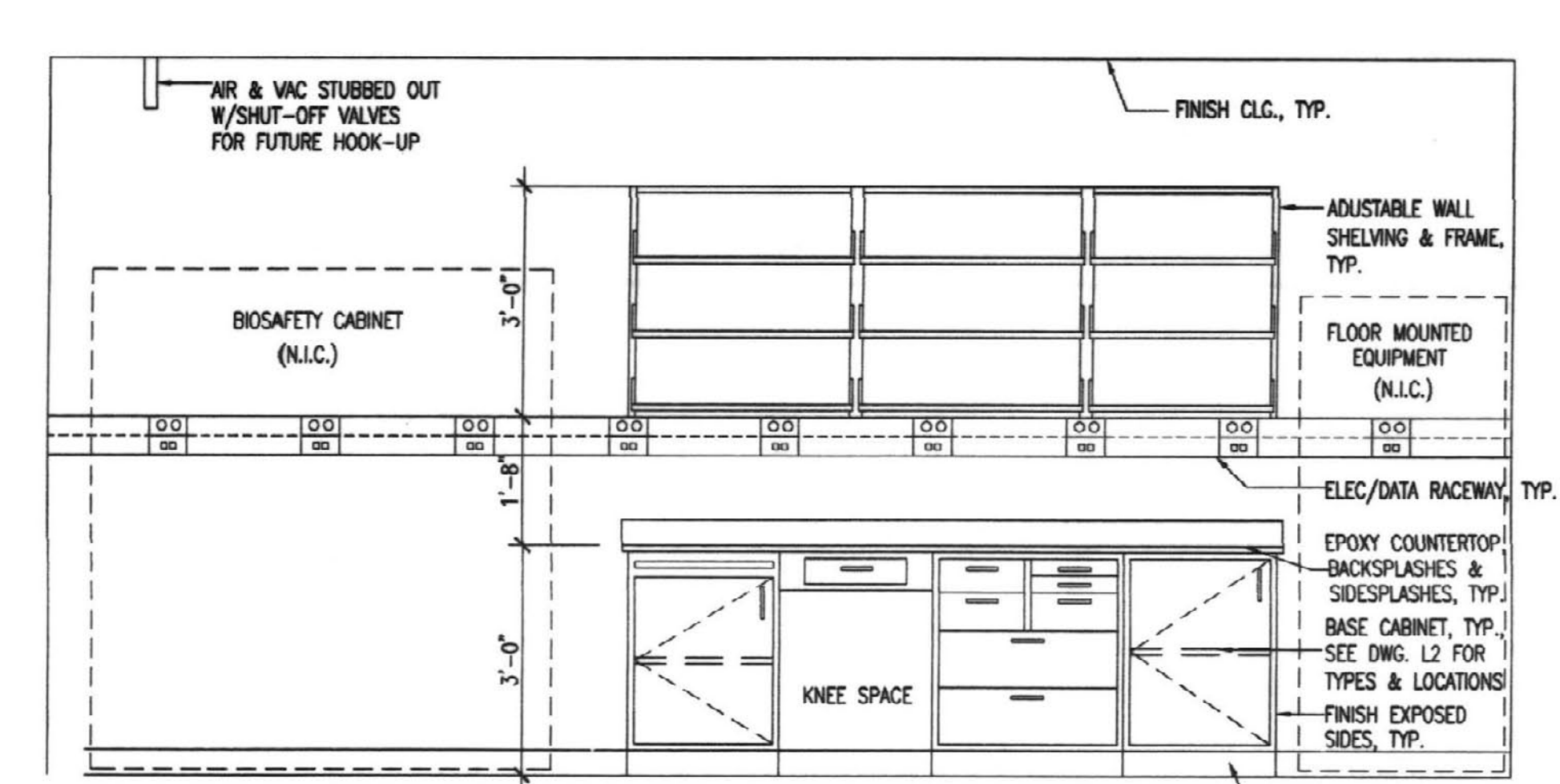
2A TYP. ISLAND BENCH: SINK ELEVATION
SCALE: 1/2"=1'-0"



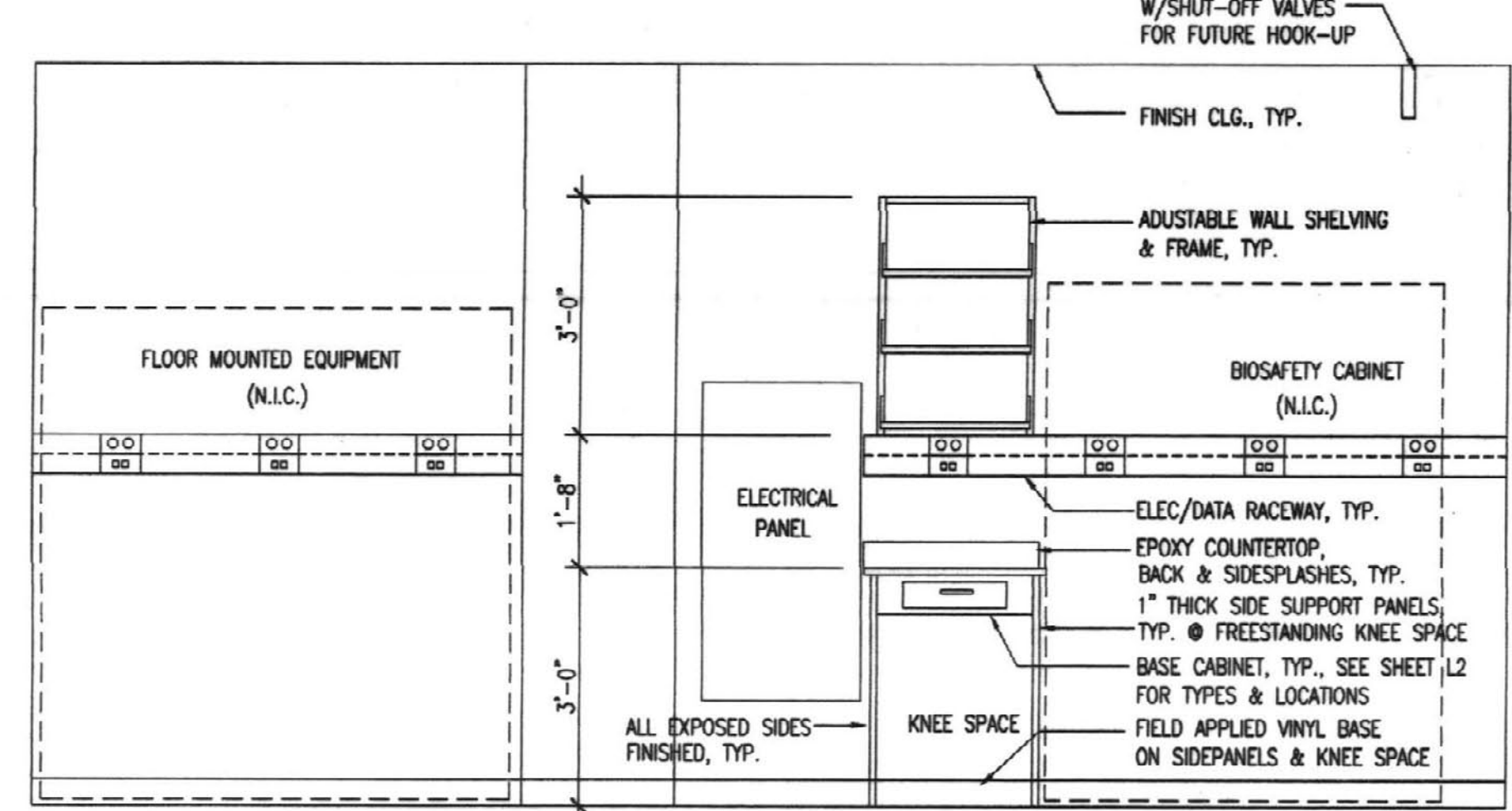
3 TYP. ISLAND BENCH: SIDE ELEVATION
SCALE: 1/2"=1'-0"



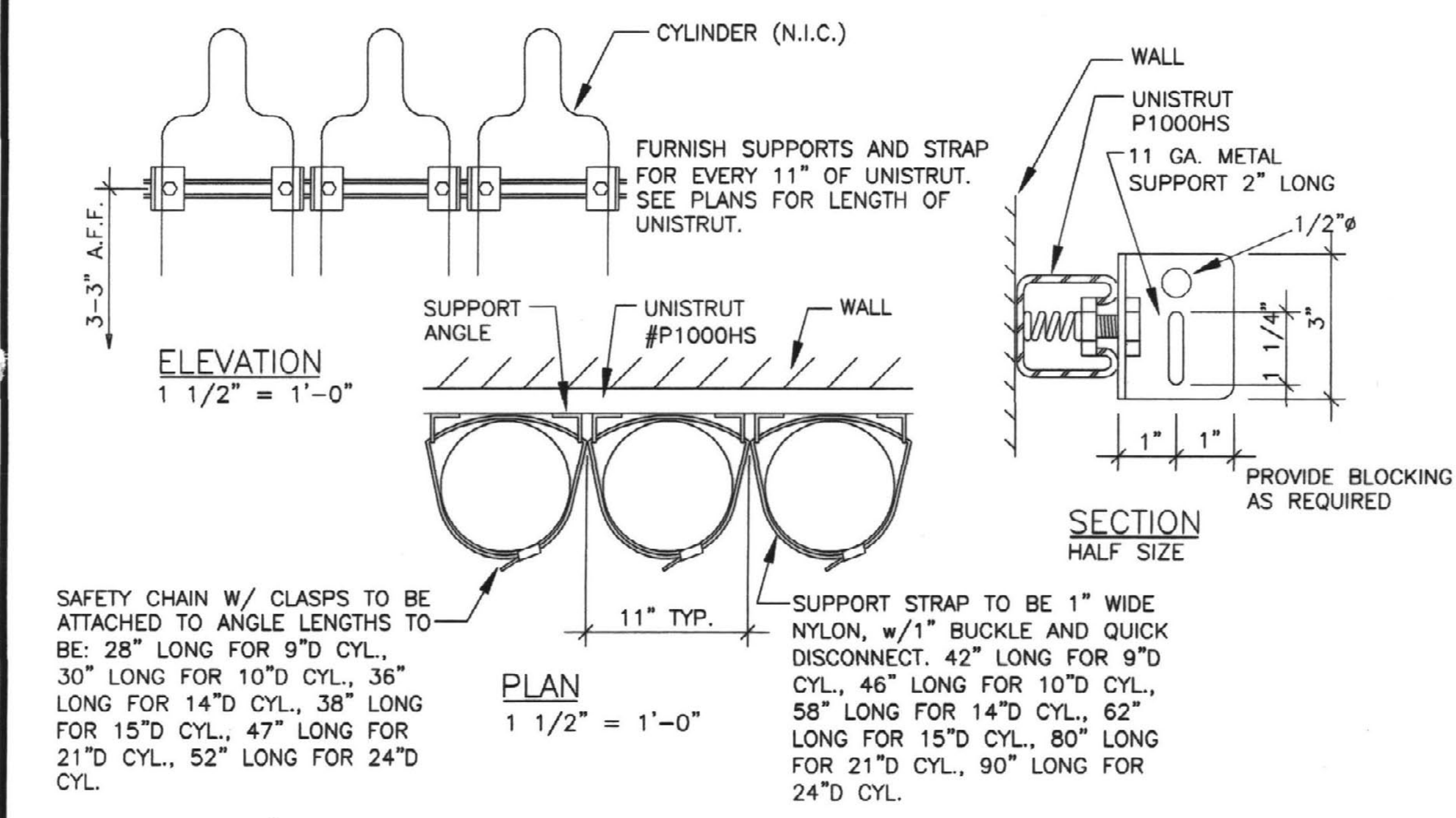
4 WALL BENCH: ADA STATION ELEVATION
SCALE: 1/2"=1'-0"



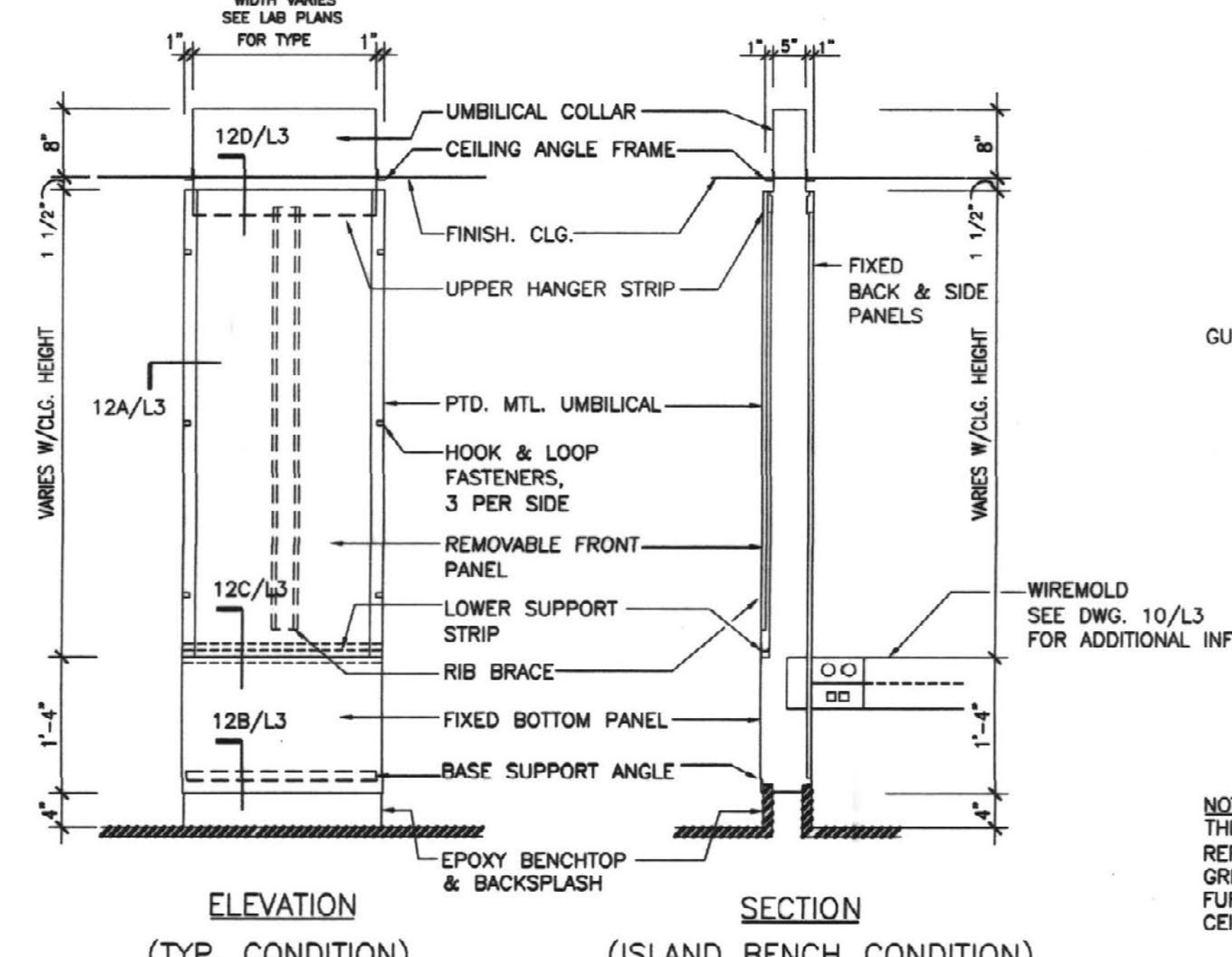
5 LAB SUPPORT: ELEVATION
SCALE: 1/2"=1'-0"



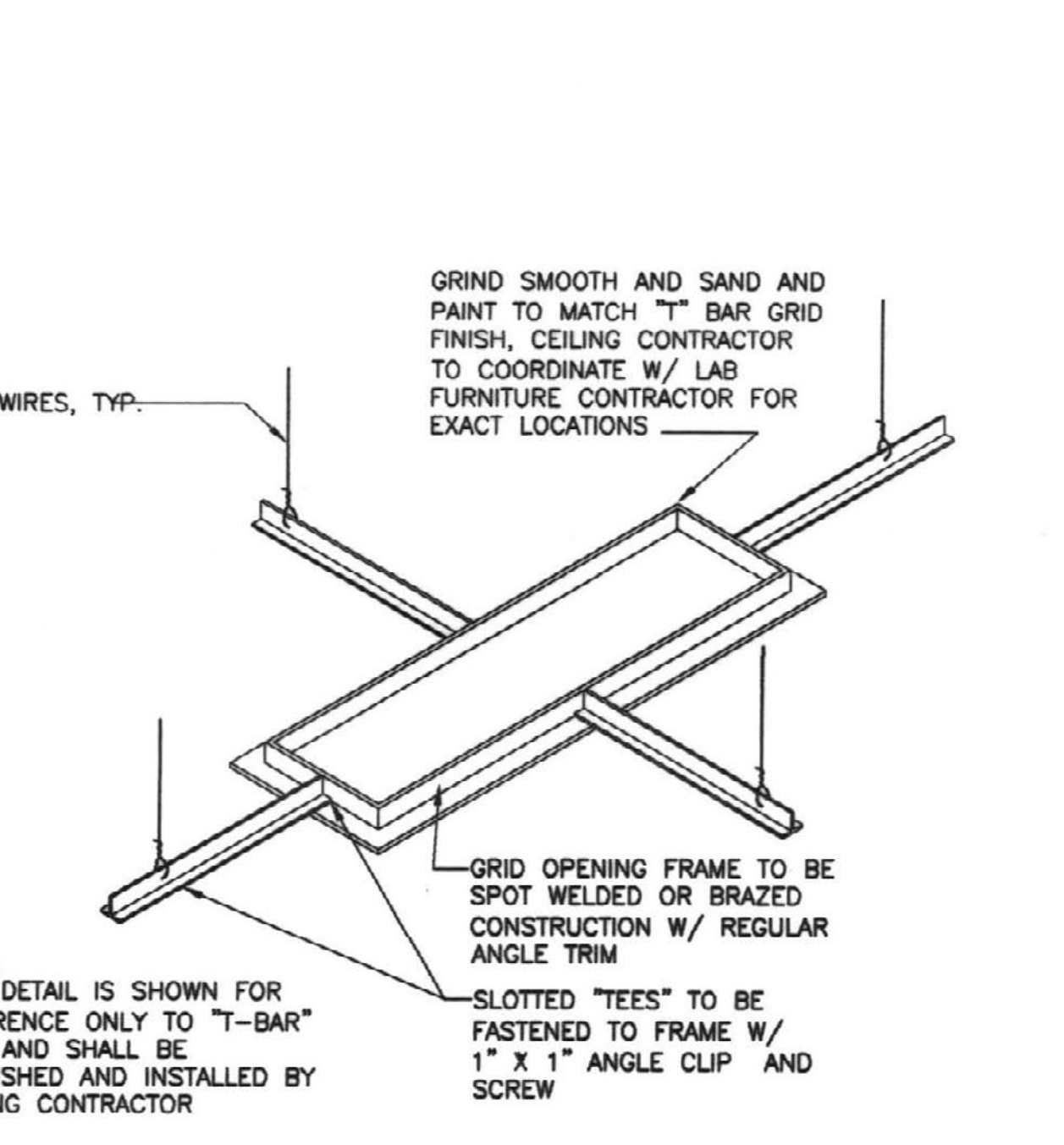
6 LAB SUPPORT: ELEVATION
SCALE: 1/2"=1'-0"



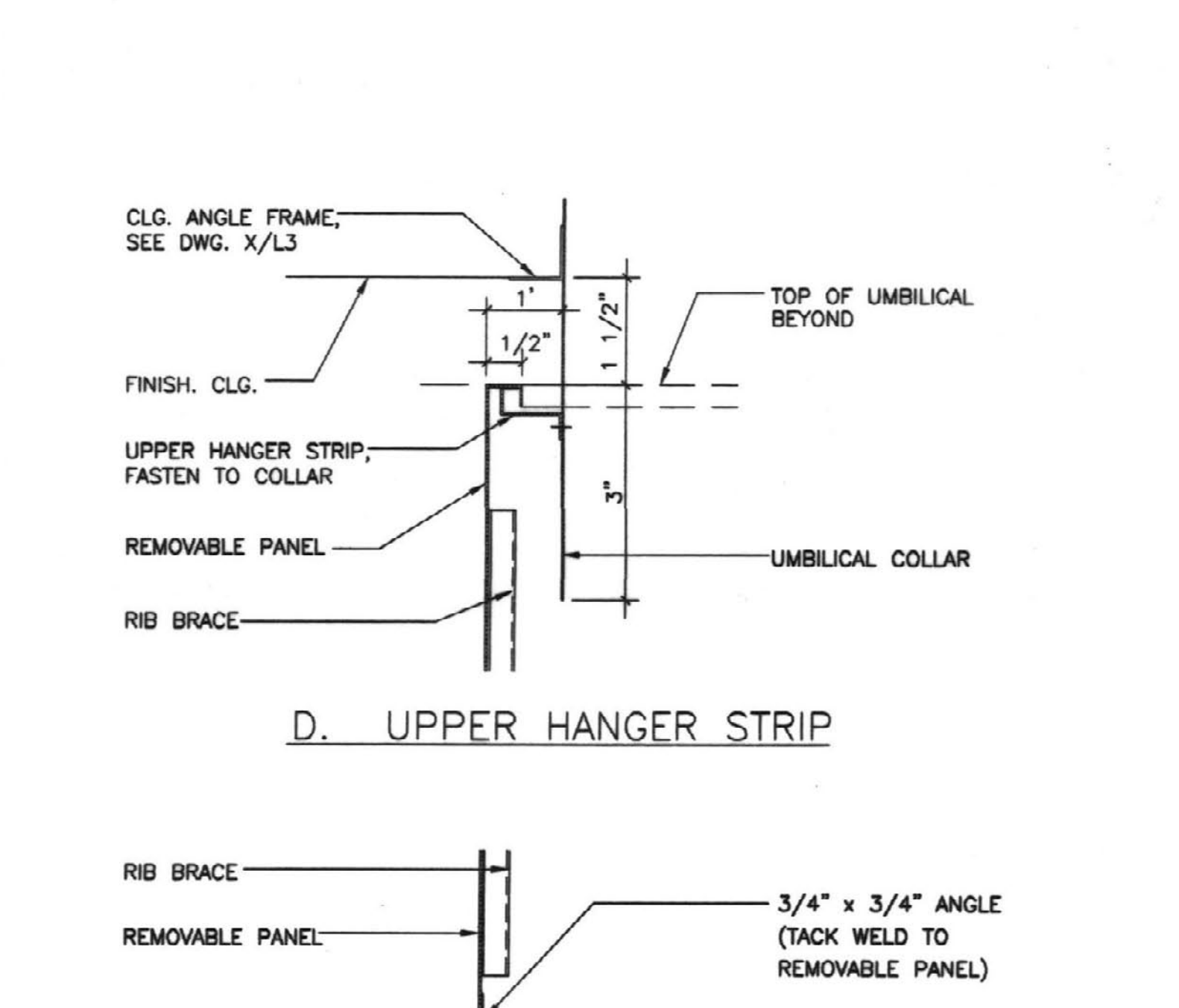
7 CYLINDER STRAP DETAIL
SCALE: 1-1/2"=1'-0"



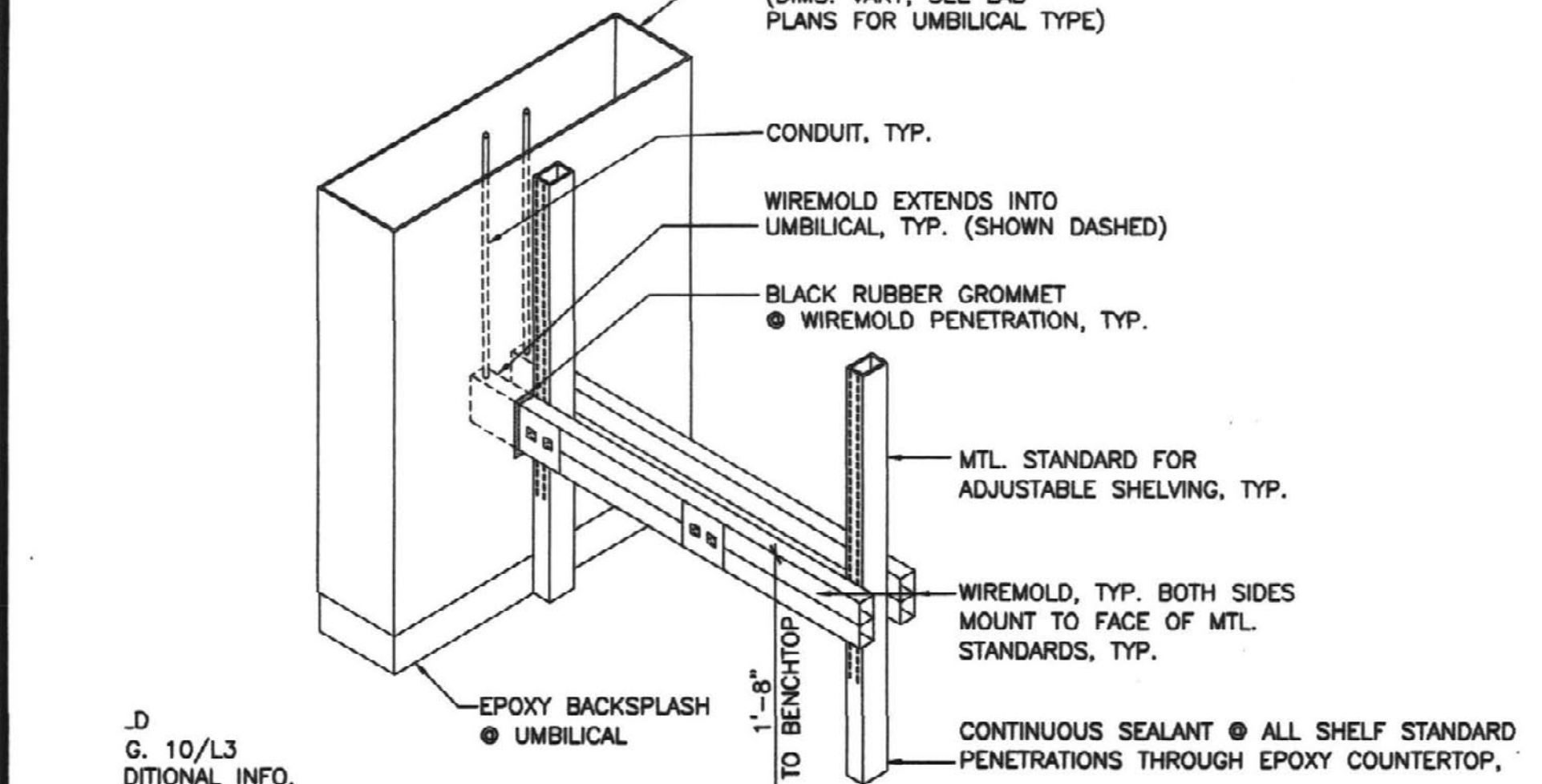
8 UMBILICAL ELEVATION / SECTION
SCALE: 3/4"=1'-0"



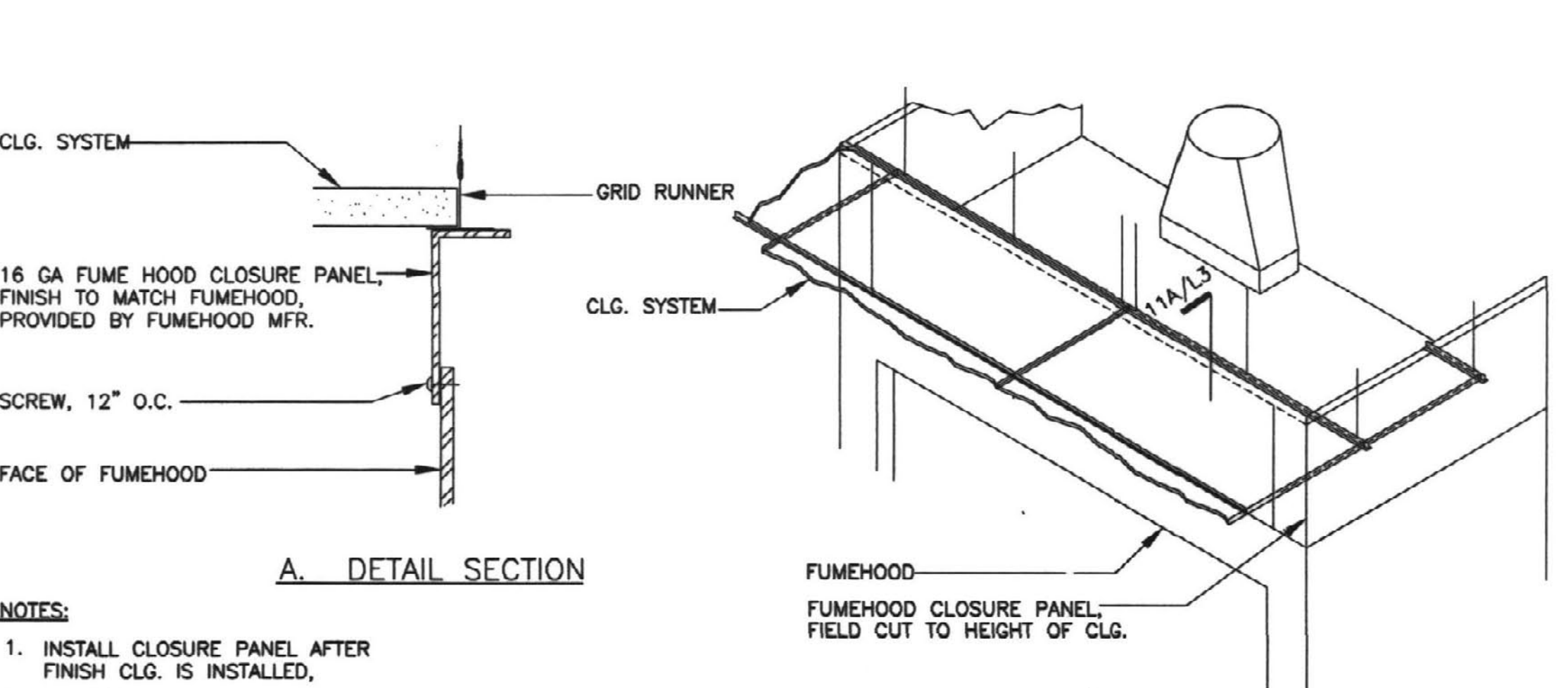
9 UMBILICAL CEILING COLLAR ISOMETRIC
SCALE: 1 1/2"=1'-0"



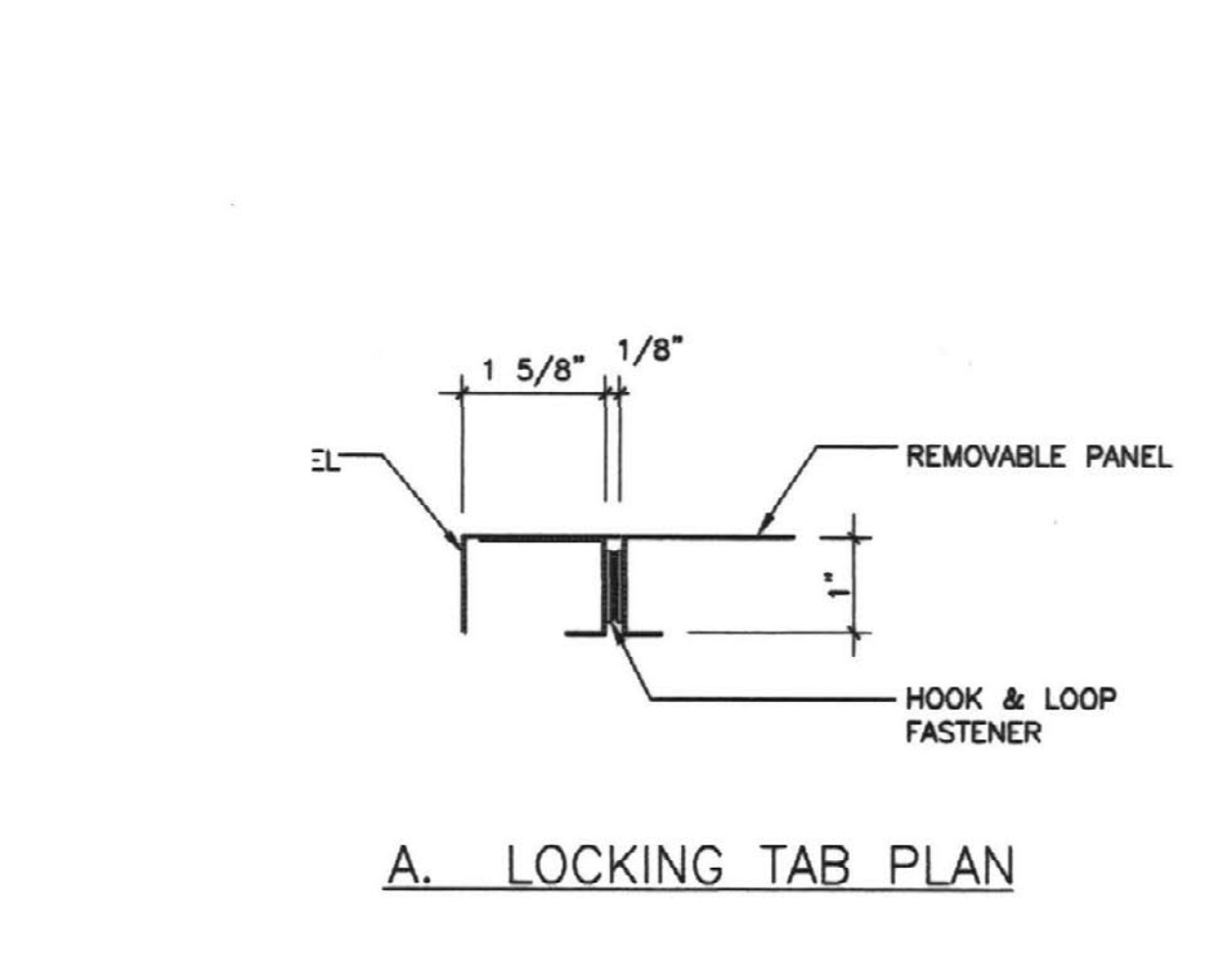
D. UPPER HANGER STRIP



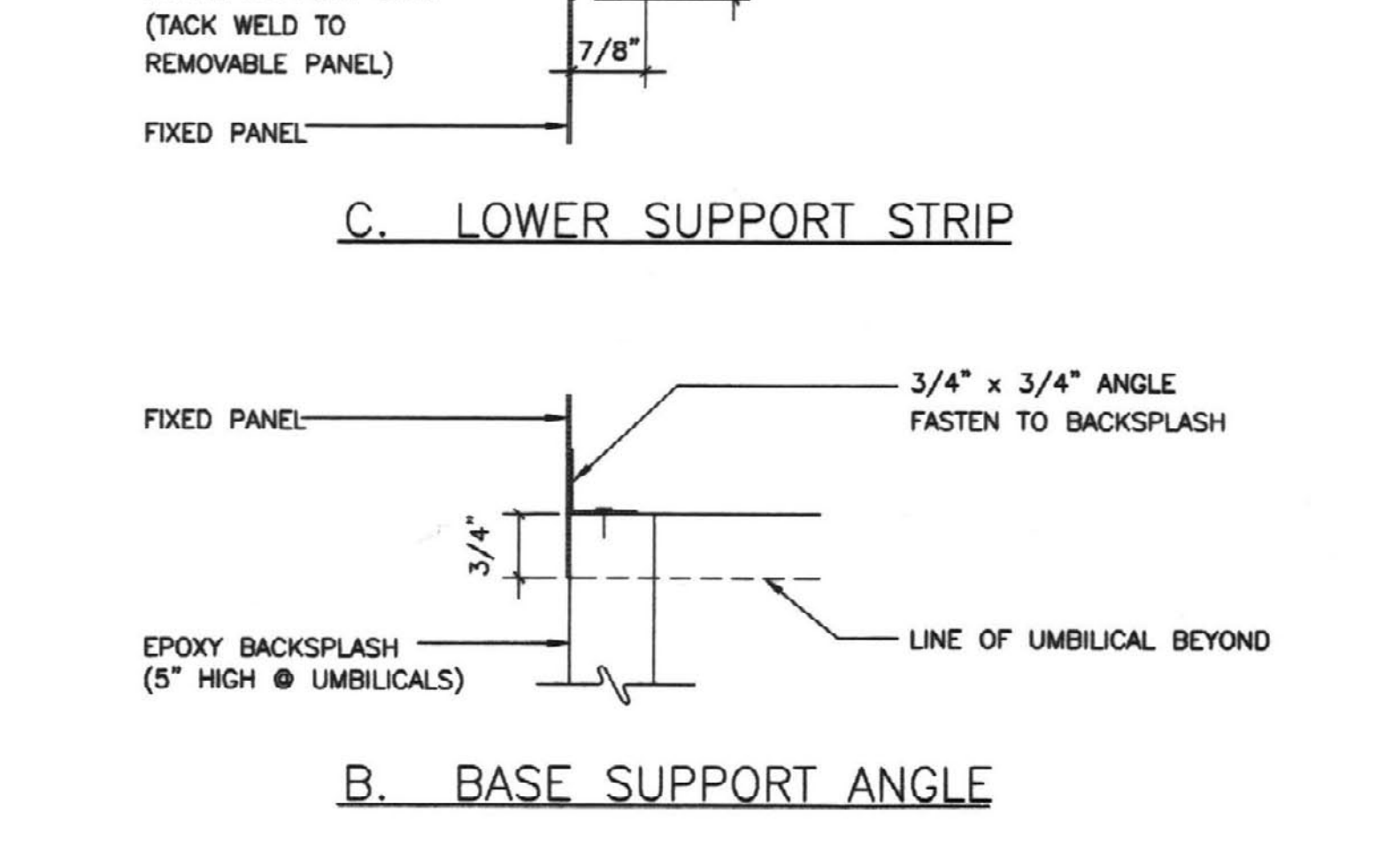
10 UMBILICAL / WIREMOLD ISOMETRIC
SCALE: 3/4"=1'-0"



11 FUMEHOOD DETAIL @ CEILING
SCALE: NOT TO SCALE



A. LOCKING TAB PLAN



B. BASE SUPPORT ANGLE

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LABORATORY
ELEVATIONS
& DETAILS

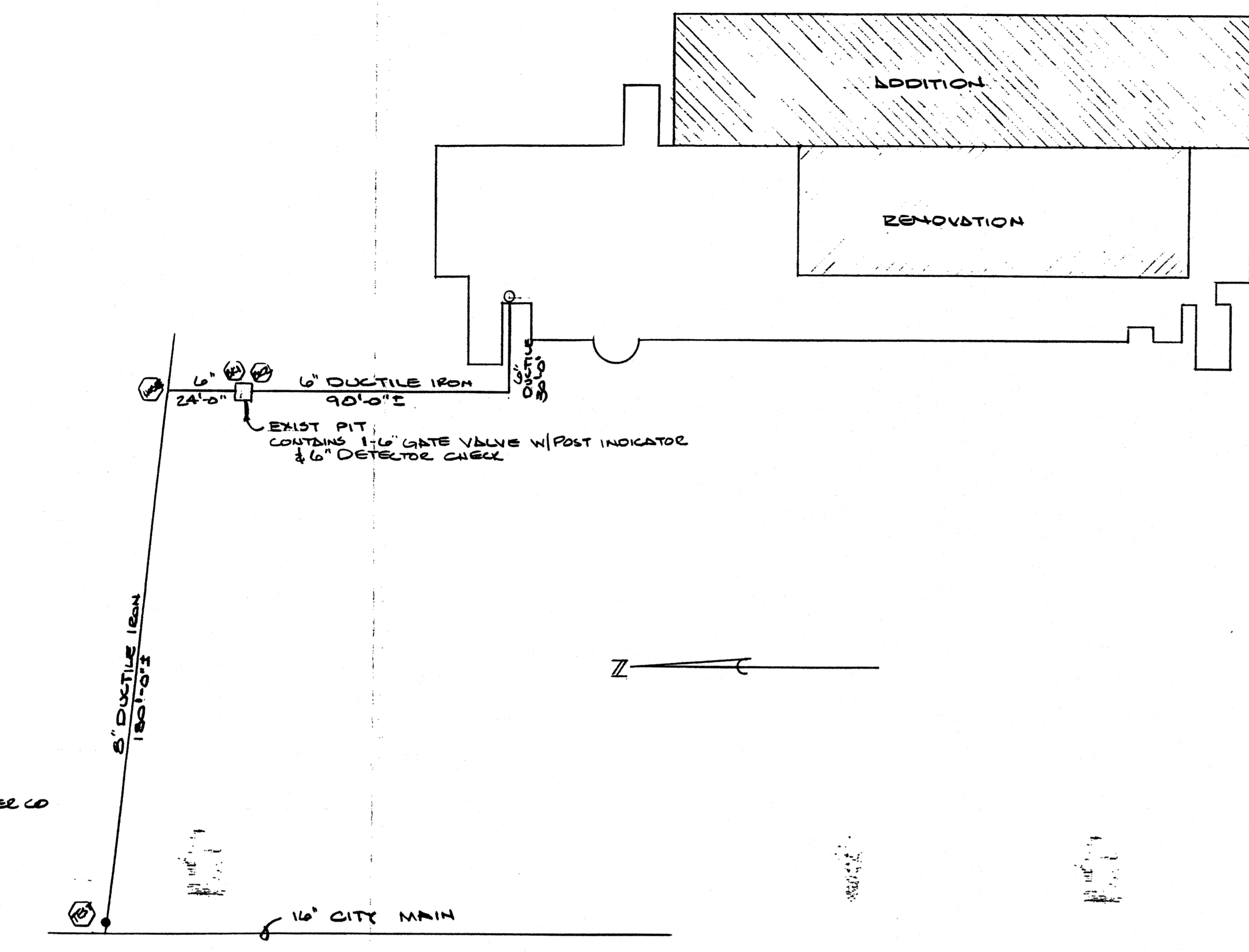
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JOB NO. 0166A
DATE November 12, 2002
DRAWN C MUMBERT
CHECKED B LANHAM

REVISIONS

SHEET
L3

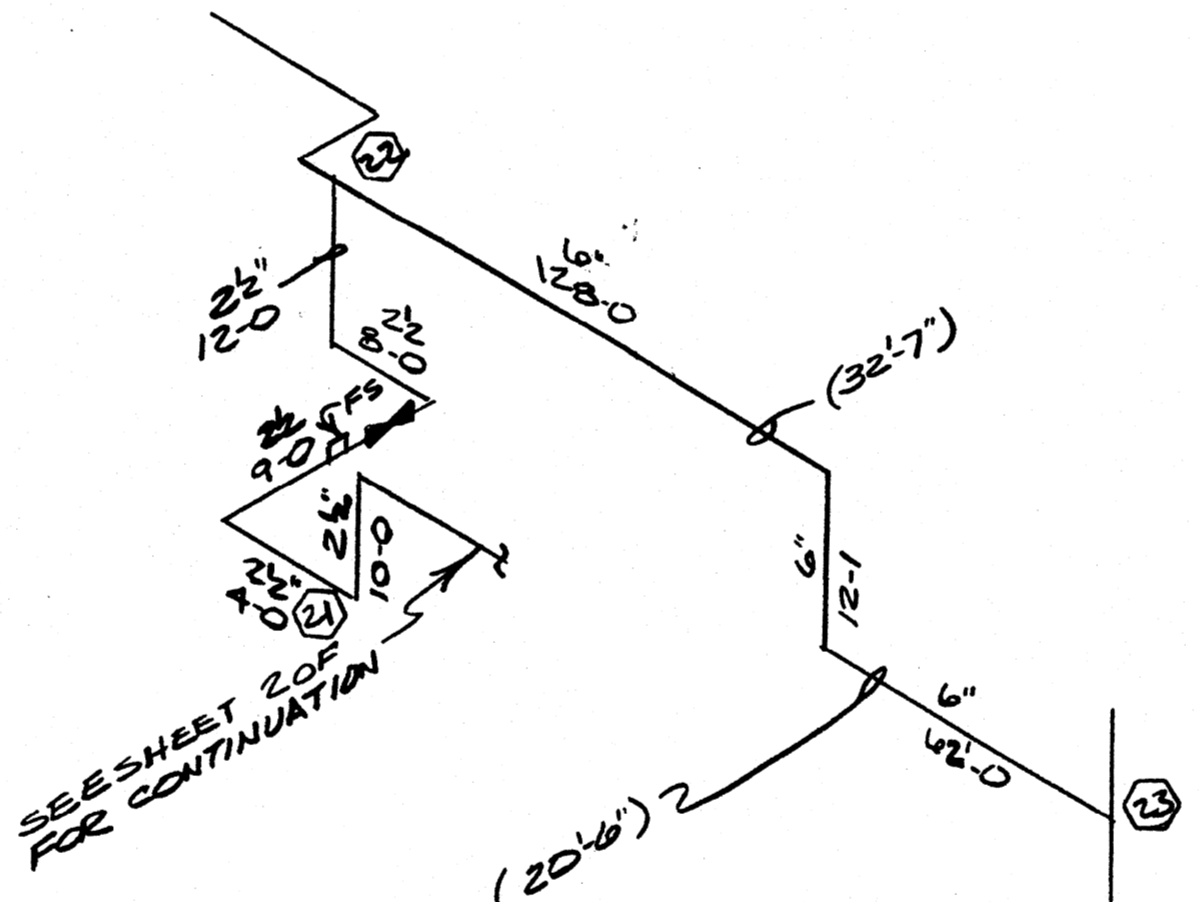


FLOW DATA:
 STATIC: 54.0 PSI
 RESIDUAL: 50 PSI
 FLOW: 2920 GPM
 DATE: 3/11/02 10:00AM
 BY: KY-AMERICAN WATER CO

NICHOLSVILLE RD (US 27)

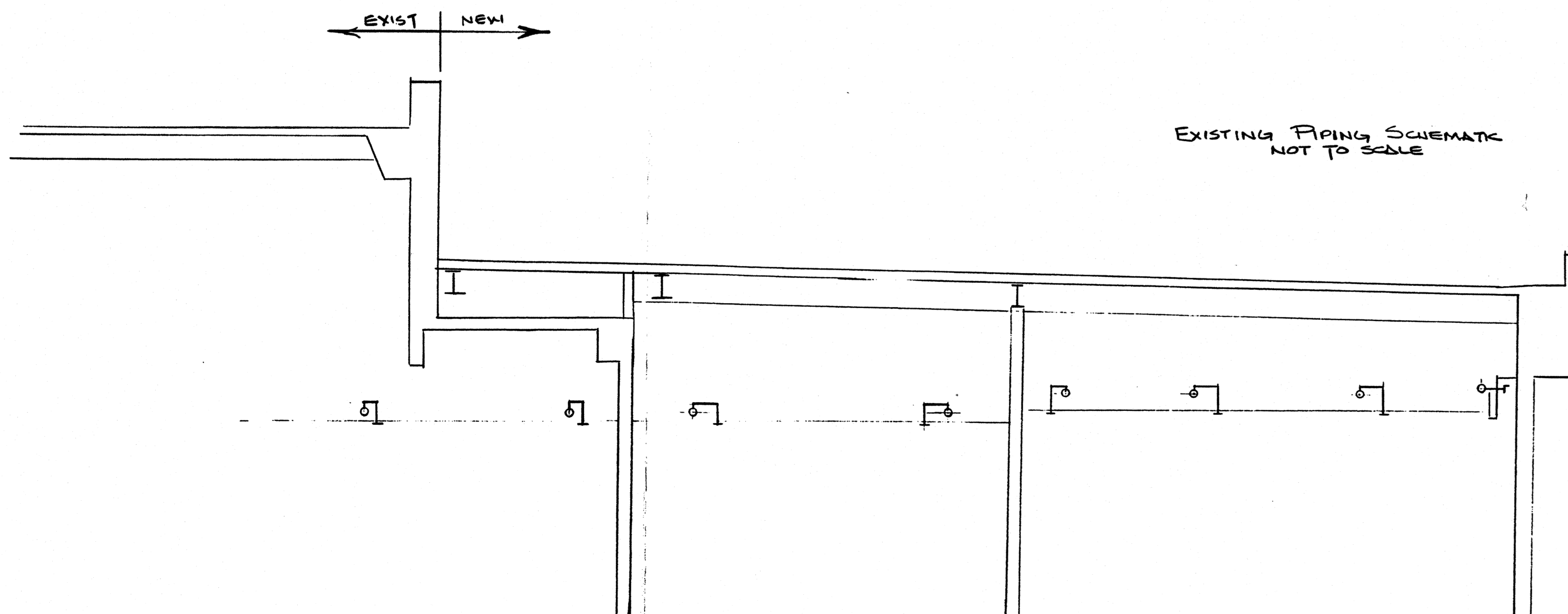
PLOT PLAN
 SCALE: 1"=30'-0"

- NOTES:
- 1) ALL PIPE 2" & SMALLER TO BE SCH 40
 - 2) ALL PIPE 2" & LARGER TO BE SCH 10
 - 3) ALL FITTINGS TO BE CAST IRON
 - 4) ALL HANGER PER NFPA 13
 - 5) (C) NOTES CENTER OF PIPE ABOVE FINISH FLOOR
 - 6) (H) NOTES HYDRAULIC NODE POINT
 - 7) (Z) NOTES APPROX LOCATION OF

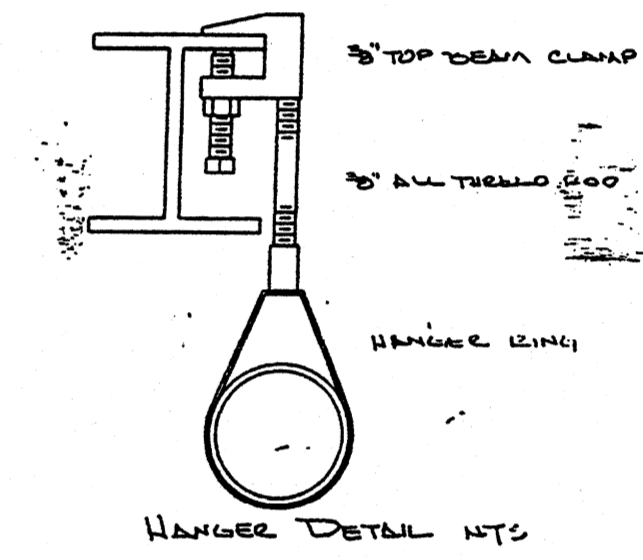


ELEVATIONS FOR THIS DRAWING ONLY,
 TAKEN OFF BASEMENT FLOOR

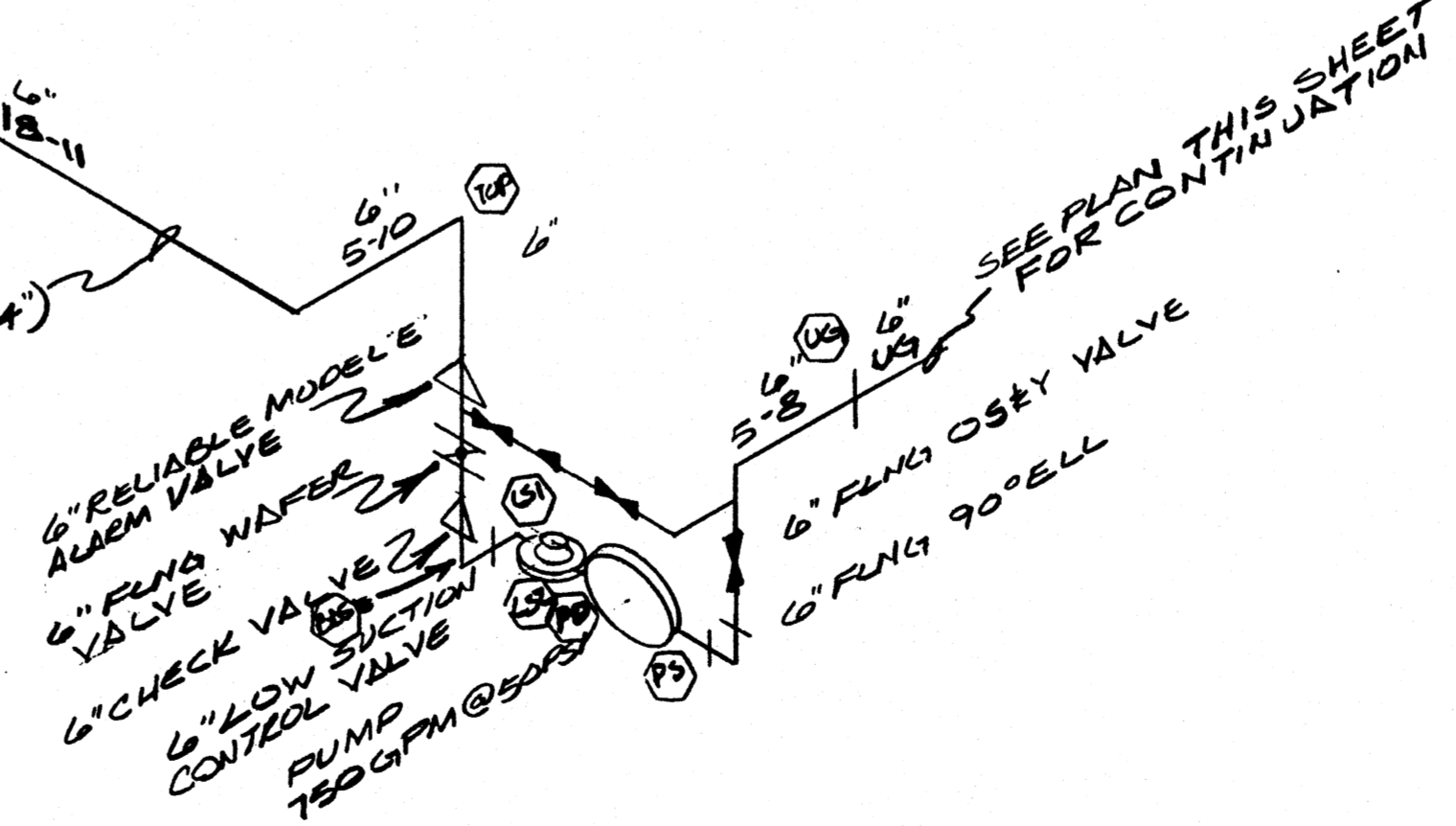
EXISTING PIPING SCHEMATIC
 NOT TO SCALE



CROSS SECTION
 NTS



HANGER DETAIL NTS



ITEMS SHOWN ON SHOP DRAWINGS
 MAY BE FURNISHED WITH CORRECTIONS SHOWN
 IN ACCORDANCE WITH THE FOLLOWING:

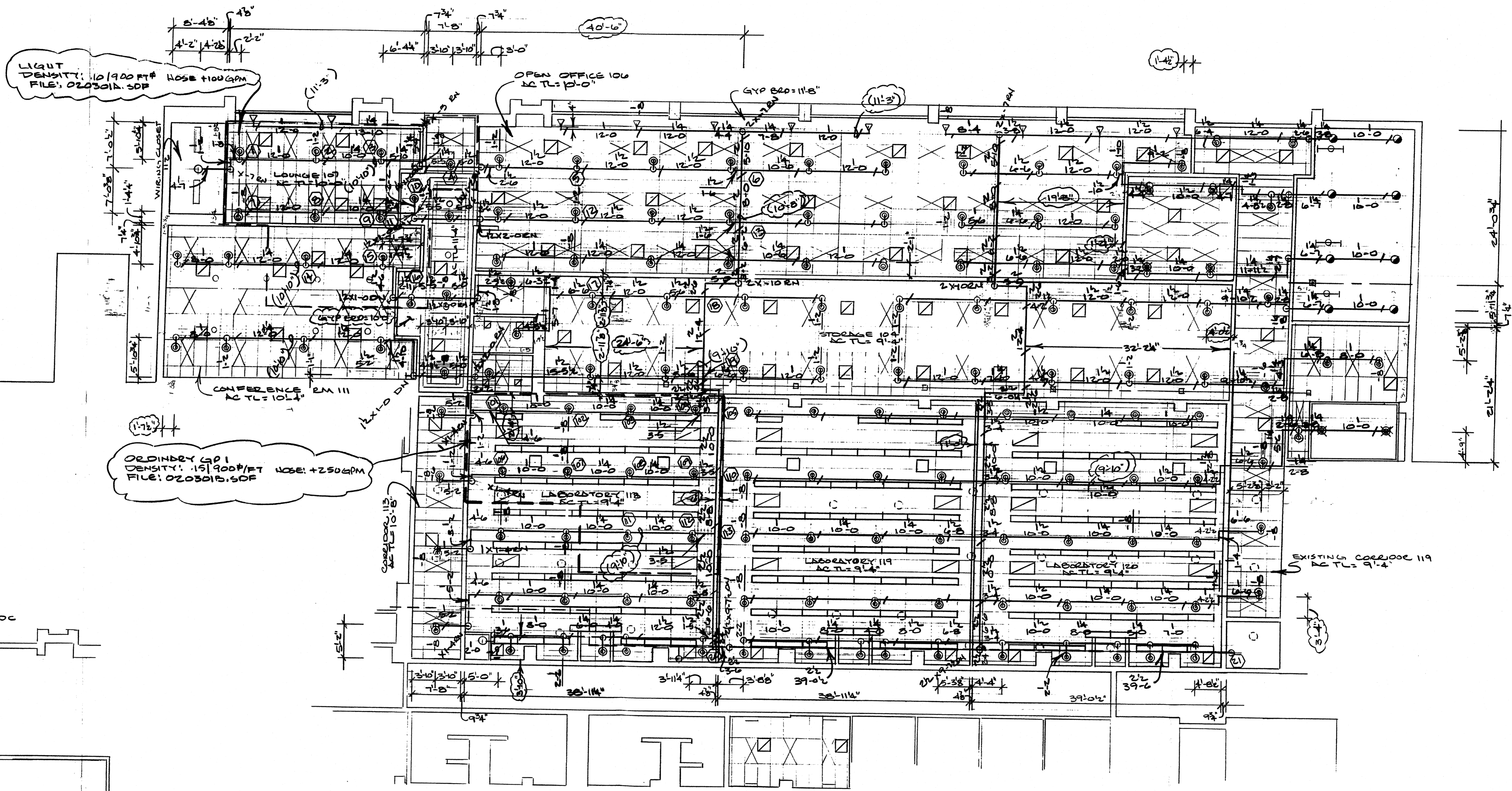
BY **LTS** AUG 31 2002
 CONSULTING ENGINEERS

Regl. Char. No. 1000000000, London, Tazewell, Inc.
 SHELBYVILLE, KENTUCKY

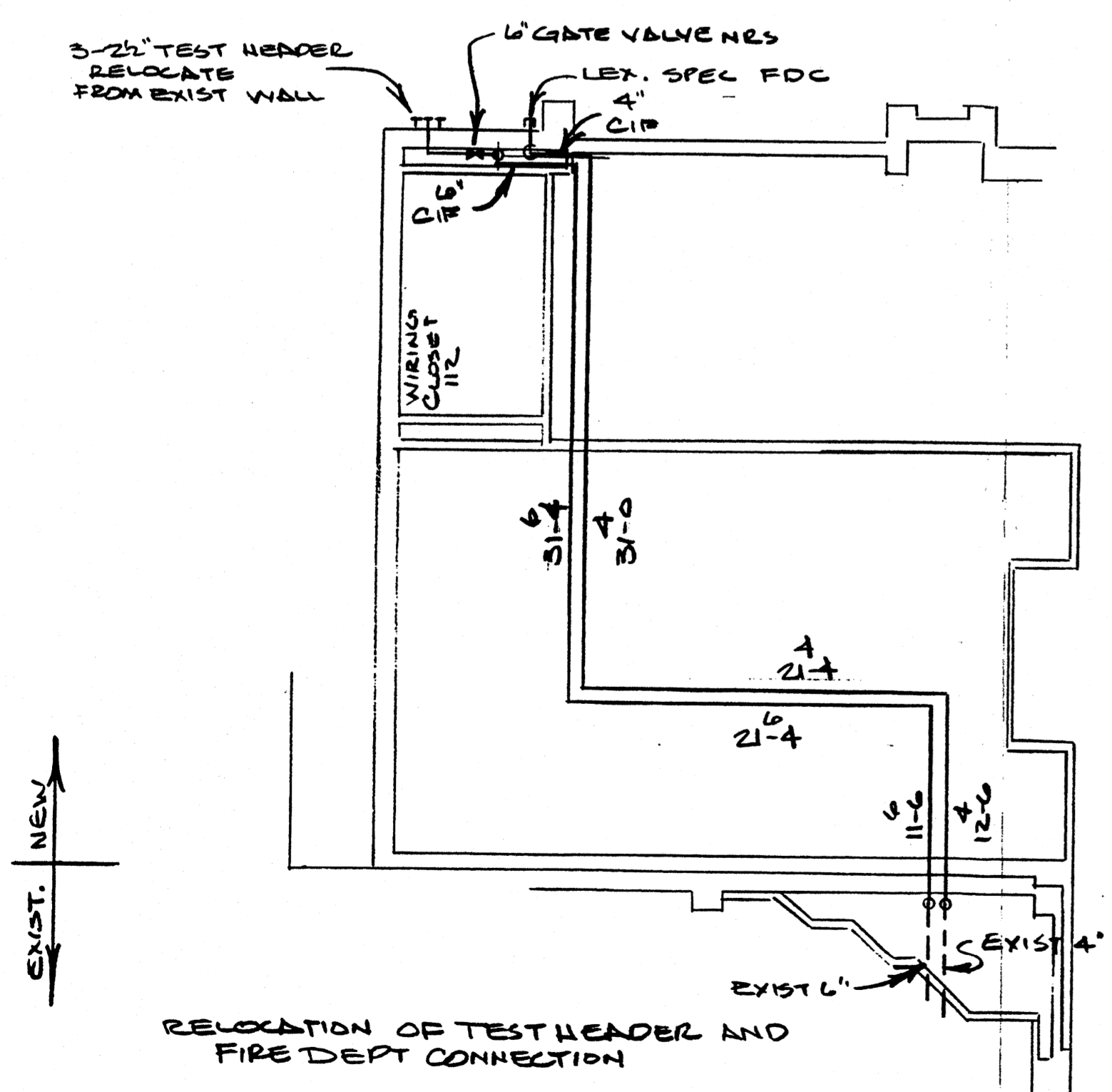
Conditions or comments made on the shop drawings during the review of the drawings are not to be construed as a contract. The drawings are subject to review of general conditions with the design contract of the project and general conditions with the contract documents. The contractor is responsible for obtaining and complying with all applicable codes, ordinances, regulations, and standards of practice and dimensions, including the work with that of all other trades, and performing the work in a safe and satisfactory manner.

	GLUCK EQUINE CENTER RENOVATION UNIVERSITY OF KENTUCKY LEXINGTON, KY	
	2317 Finkbein Court P.O. Box 13580 Lexington, KY 40503 Phone (606) 254-4422 Fax (606) 253-2300	Date: 8/02 Scale: 1/8"=1'-0" By: C.L. Drawing: 1 OF 2
Revision: 10/02		Job # 020301

- 00 2" 155° RELIABLE MODEL FIRE QUICK RESPONSE BRASS UPRIGHT (2)
- 00 2" 200° RELIABLE MODEL FIRE QUICK RESPONSE BRASS UPRIGHT (2)
- 00 2" 155° RELIABLE MODEL FIRE FL QUICK RESPONSE CUR RECESS PENDENT W/ CUR PLATE (147)
- 00 2" 155° RELIABLE MODEL FIRE QUICK RESPONSE CUR HORIZONTAL SIDEWALL W/ IPE CUR PLATE (11)
- 00 2" 155° RELIABLE MODEL GBFL QUICK RESPONSE CUR DRY PENDENT W/ IPE PLATE (6)



TOTAL HEADS THIS SHEET (174)



	GLUCK EQUINE CENTER RENOVATION UNIVERSITY OF KENTUCKY LEXINGTON, KY	
2317 Franklin Court P.O. Box 13580 Lexington, KY 40503 Phone (609) 254-422 Fax (609) 233-2320	Date: 8/02	Scale: 1/2" = 1'-0"
Revision:	By: C.L.	Drawing: 20P2
100 # 020301		