

State of Vermont
Department of Buildings & General Services
HARTFORD INFORMATION CENTER

I-91 SOUTHBOUND
HARTFORD, VERMONT
FEDERAL PROJECT No. IM BUILDING (6)

AGENCY OF ADMINISTRATION
DEPT. OF BUILDINGS & GENERAL SERVICES
2 GOVERNOR AIKEN AVENUE
MONTPELIER, VERMONT 05633-5801
THOMAS W. TORTI, COMMISSIONER

FEDERAL HIGHWAY ADMIN. VERMONT DIVISION
FEDERAL BUILDING
87 STATE STREET, P.O. BOX 568
MONTPELIER, VERMONT 05601
CHARLES E. BASNER

AGENCY OF ADMINISTRATION
NATIONAL LIFE BUILDING
1 NATIONAL LIFE DRIVE
MONTPELIER, VERMONT 05633
BRIAN R. SEARLES, SECRETARY

DIVISION ADMINISTRATOR

Index of Drawings

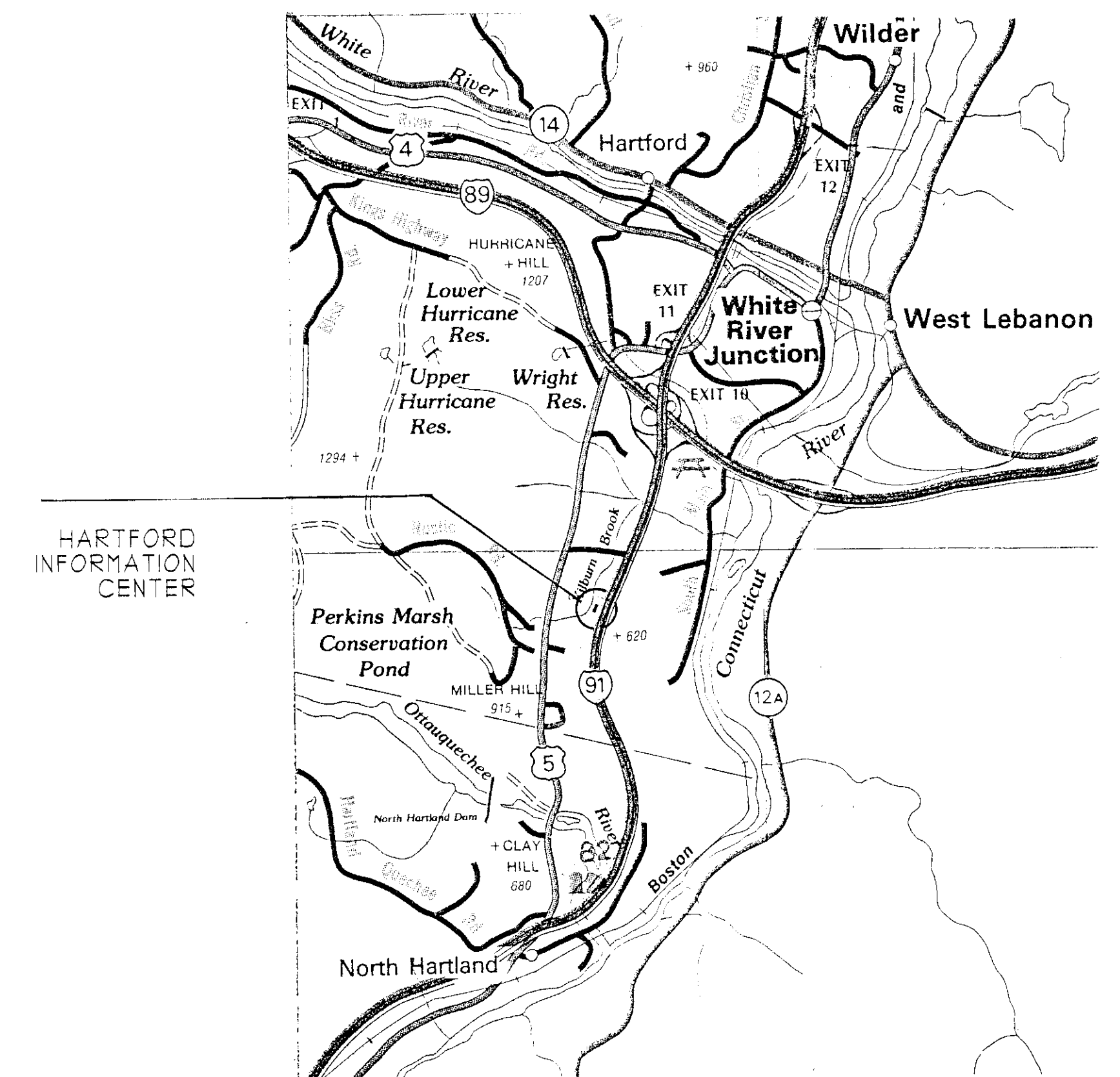
SD	SITE PLAN
001	A1 BASEMENT, MAIN FLOOR, ATTIC & ROOF PLANS, ROOFING DETAILS
002	A2 BUILDING ELEVATIONS
003	A3 CROSS SECTIONS
004	A4 WALL SECTIONS
005	A5 WALL SECTION, WINDOW DETAILS
006	A6 INTERIOR ELEVATIONS
007	A7 INTERIOR ELEVATIONS, DETAILS
008	A8 ROOM FINISH SCHEDULE, DOOR SCHEDULE, WALL, DOOR & FRAME TYPES
009	A9 REFLECTED CEILING PLAN, DETAILS
010	A10 DETAILS
12	S1 FOUNDATION PLAN & DETAILS
13	S2 ROOF SUB-FRAMING, MAIN & ATTIC FLOOR FRAMING PLANS
14	S3 ROOF FRAMING & OVERLAY PLANS
15	S4 FRAMING DETAILS I
16	S5 FRAMING DETAILS II
17	M1 HVAC PLANS & DETAILS
18	M2 HVAC PLANS & DETAILS
19	M3 HVAC SECTIONS & DETAILS
20	M4 HVAC SCHEDULES
21	M5 HVAC SCHEDULES
22	P1 BASEMENT PLANS & DETAILS
23	P2 PLUMBING PLANS & DETAILS
24	P3 PLUMBING PLANS & DETAILS
25	E1 LIGHTING PLAN - MAIN FLOOR
26	E2 POWER & SIGNAL PLAN - MAIN FLOOR
27	E3 BASEMENT & ATTIC ELECTRICAL PLANS & DETAILS
28	E4 ELECTRICAL DETAILS & DIAGRAMS
29	E5 SITE PLAN - ELECTRICAL



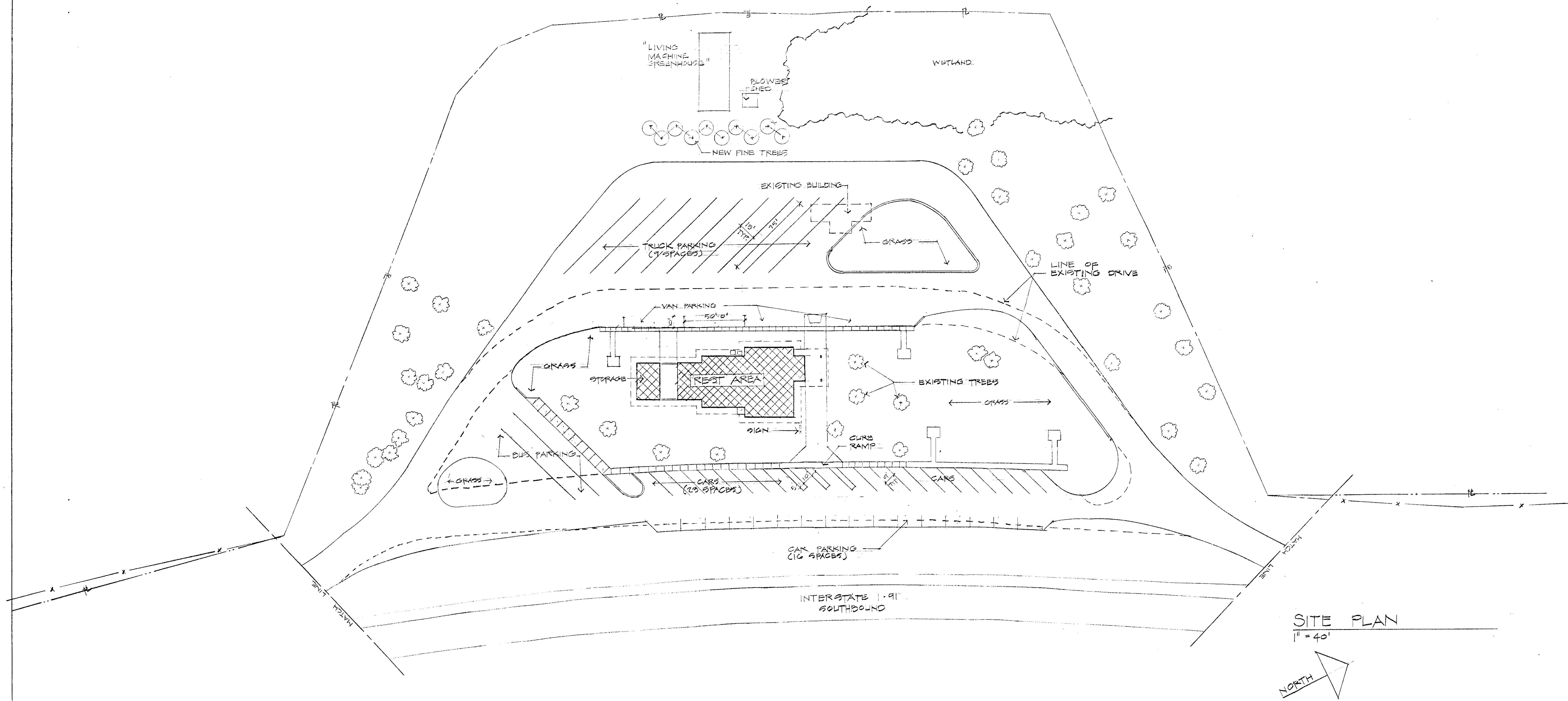
Howard Dean, M.D.
Governor

November 2000

NBF ARCHITECTS, P.C.
24 1/2 CENTER STREET
RUTLAND, VT 05701



PROJECT LOCATION



N.B.F.
 Nimtz • Berryhill • Figiel
 ARCHITECTS P.C.
 24 1/2 Center Street
 Rutland, Vermont
 0 5 7 0 1

Steven J. Banik, P.E.
 STRUCTURAL ENGINEER
 Cuttingsville, Vermont
 0 5 7 3 8

ANE ASSOCIATES
 CONSULTING ENGINEERS, P.C.
 Rutland, Vermont
 0 5 7 0 1

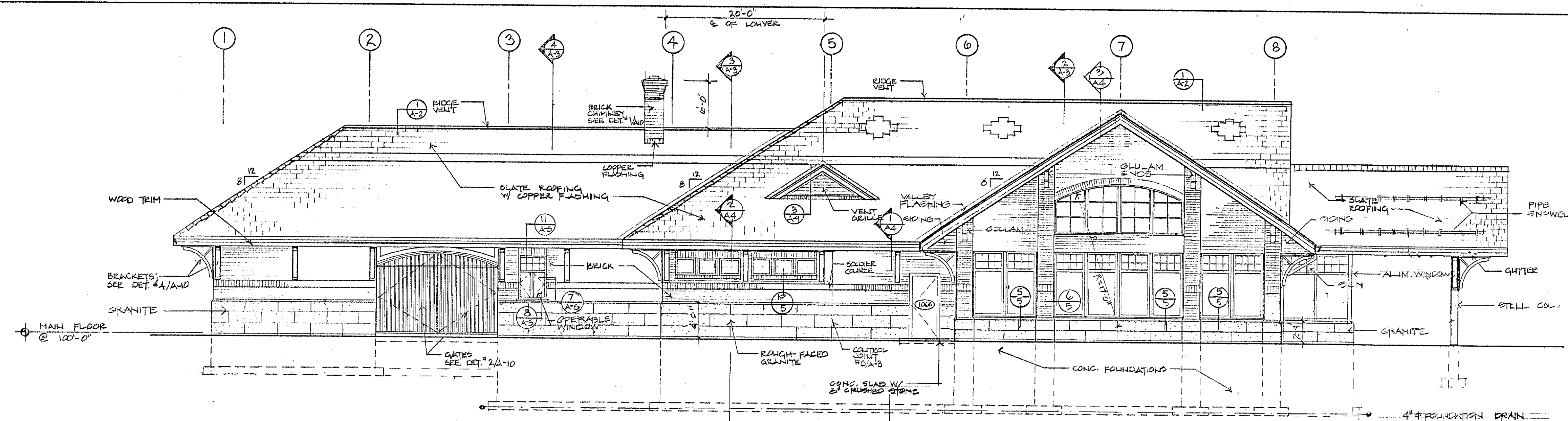
DuBois & King
 •Engineering •Planning
 •Development •Management
 Rutland, Vermont
 0 5 7 0 1

Southbound I-91
Hartford
Travel and Information Center
 Hartford, Vermont

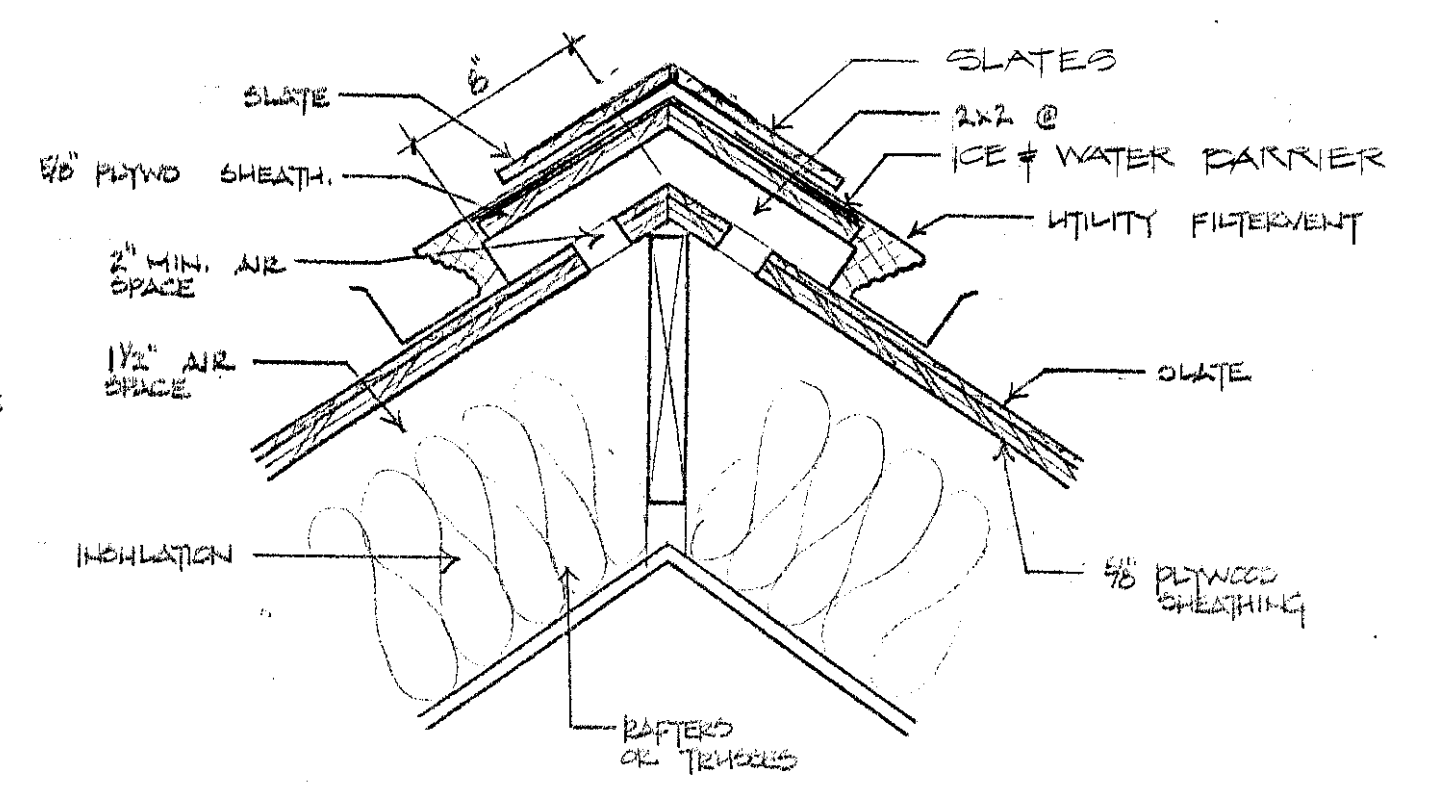
SITE PLAN

10.31.01 CLIENT REVIEW
 Date Issued For

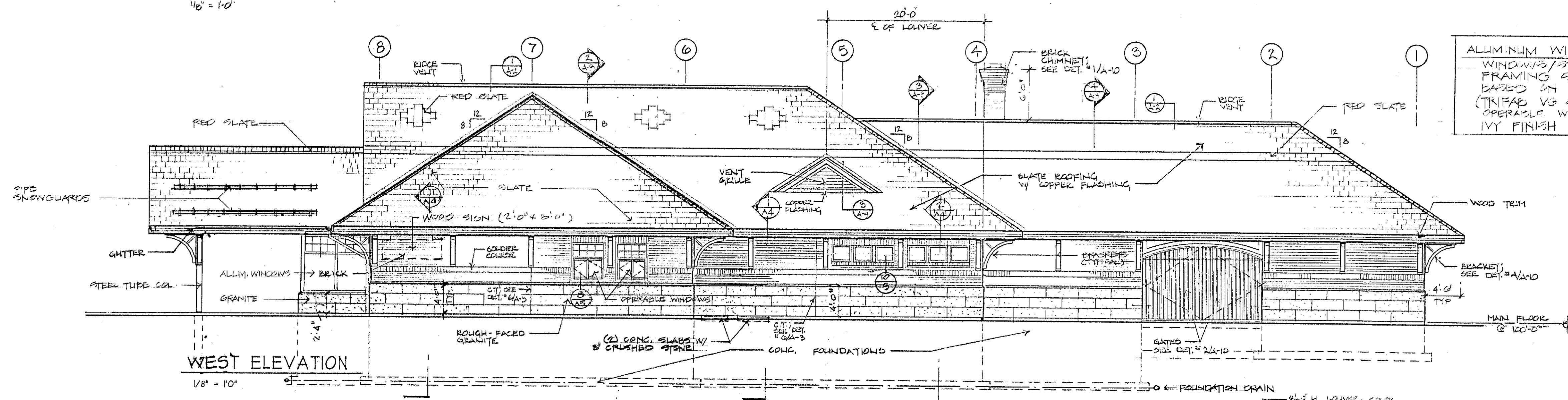
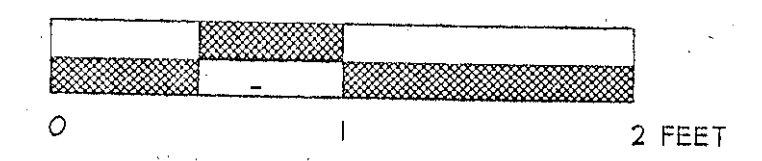
Project: Hartford
 Project Number: 9203
SD 1
 Sheet # 1 Of 1



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

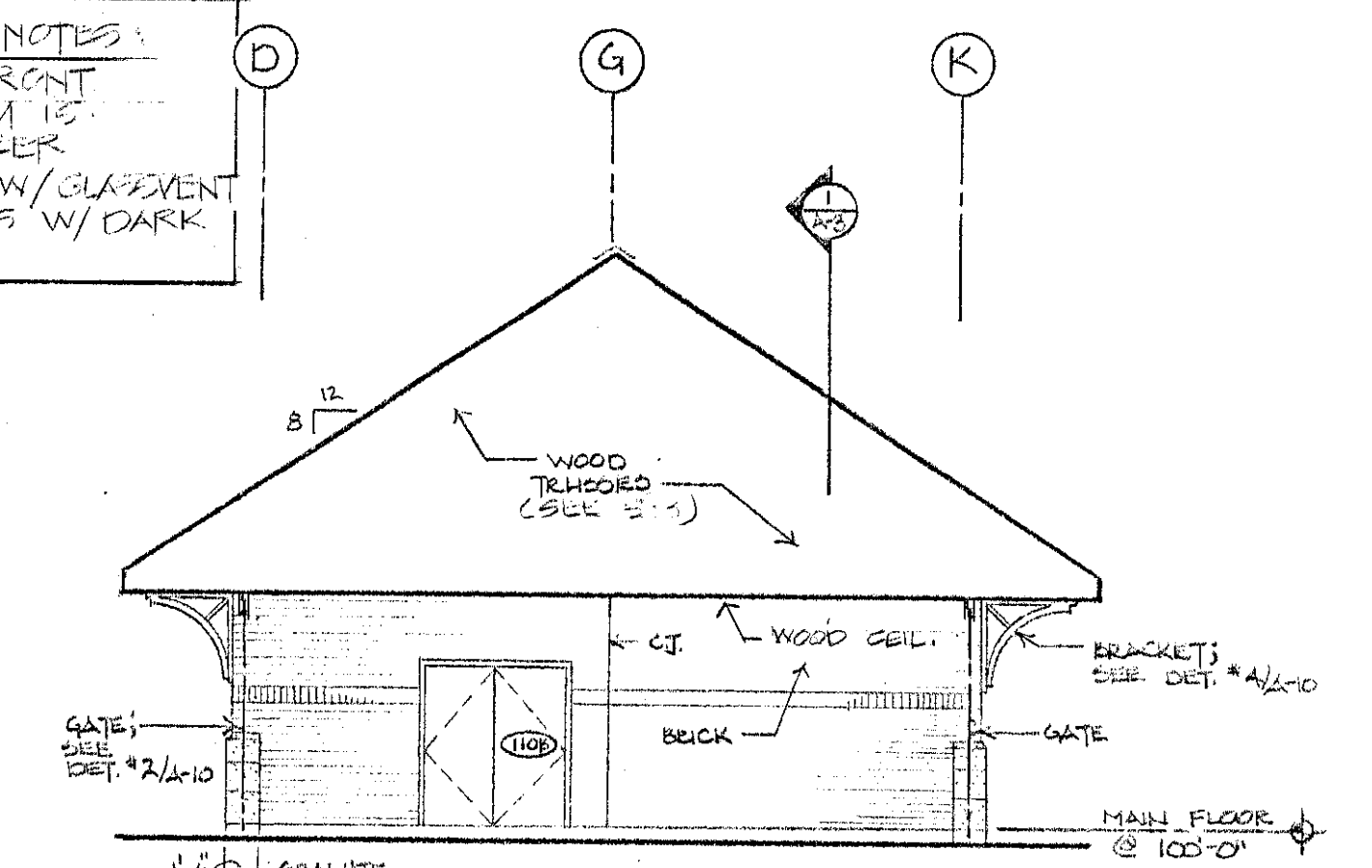


1 RIDGE VENT DETAIL
1/2" = 1'-0"

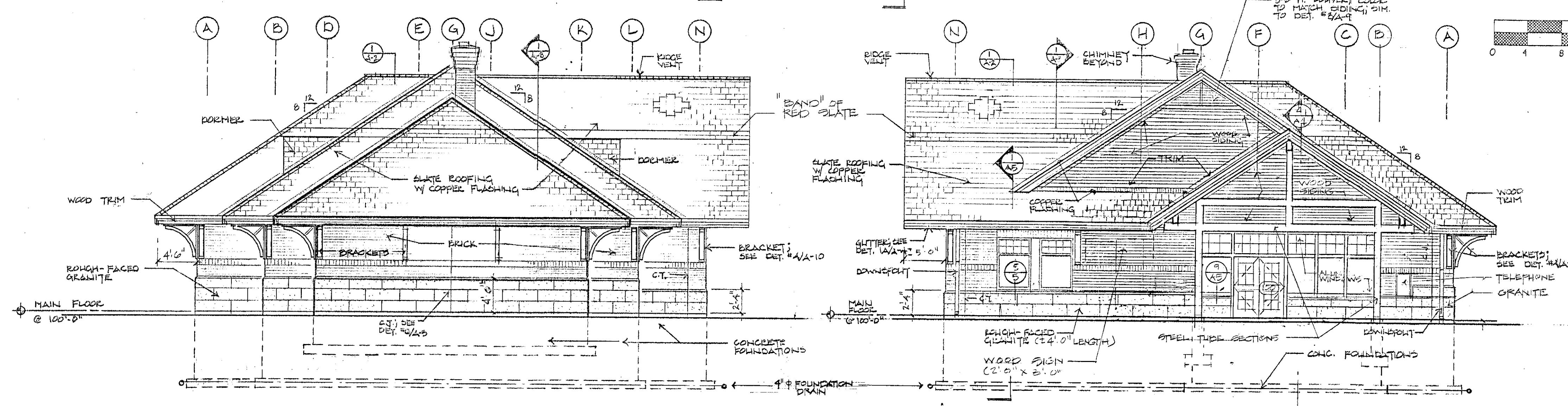


WEST ELEVATION
1/8" = 1'-0"

ALUMINUM WINDOW NOTES:
WINDOWS/DOOR/FRONT
FRAMING SYSTEM IS
BASED ON KAWNEER
(TRIFAB VS 451 T) W/ GLASS VENT
OPERABLE WINDOWS W/ DARK
IVY FINISH

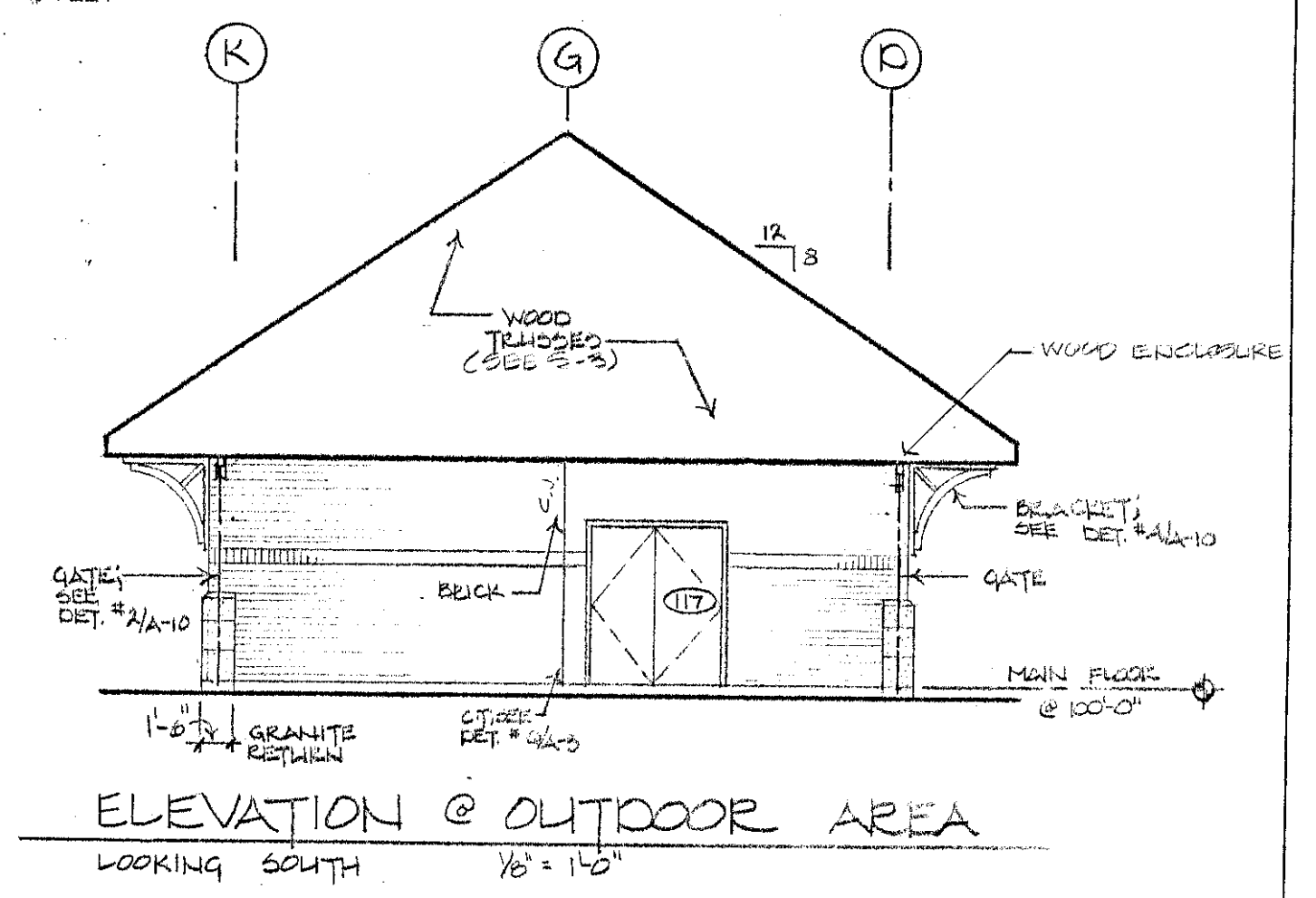


ELEVATION @ OUTDOOR AREA
LOOKING NORTH
1/8" = 1'-0"



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

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



ELEVATION @ OUTDOOR AREA
LOOKING SOUTH
1/8" = 1'-0"

N.B.F.
Nimtz • Berryhill • Figiel
ARCHITECTS P.C.
24 1/2 Center Street
Rutland, Vermont
05701

Steven J. Banik, P.E.
STRUCTURAL ENGINEER
Cuttingsville, Vermont
05738

LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.
Rutland, Vermont
05701

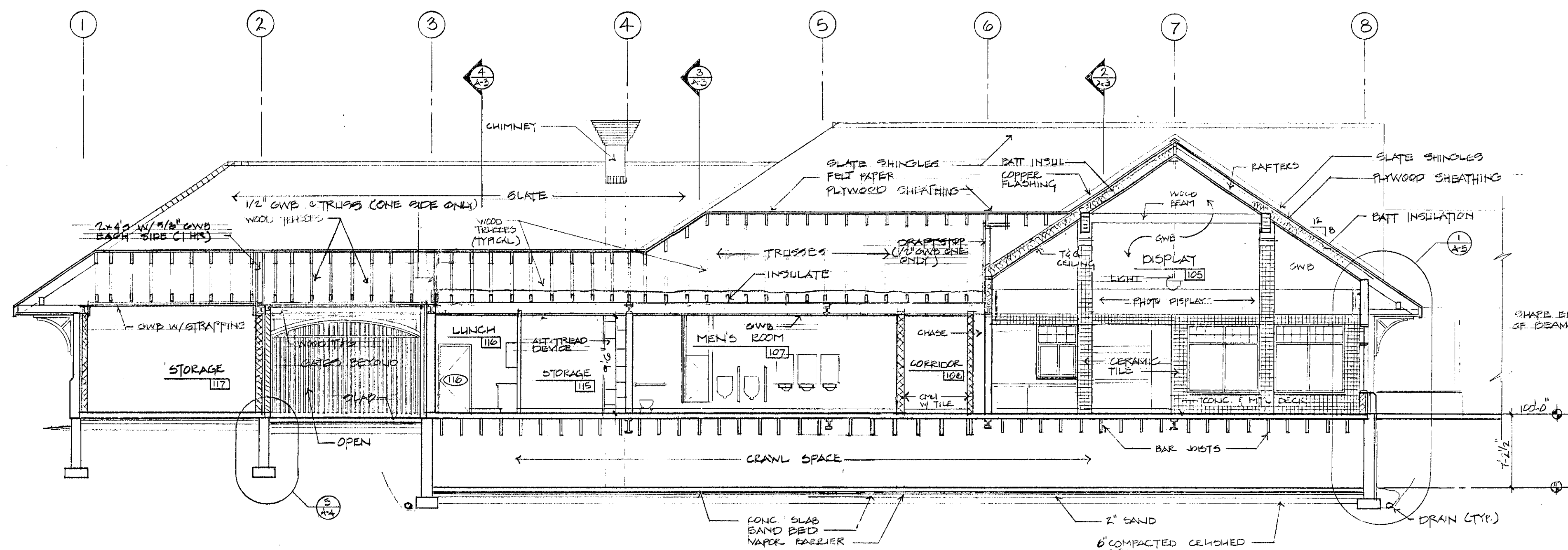
Dubois & King
• Engineering • Planning
• Development • Management
Rutland, Vermont
05701

Southbound I-91
Hartford
Travel and Information Center
Hartford, Vermont

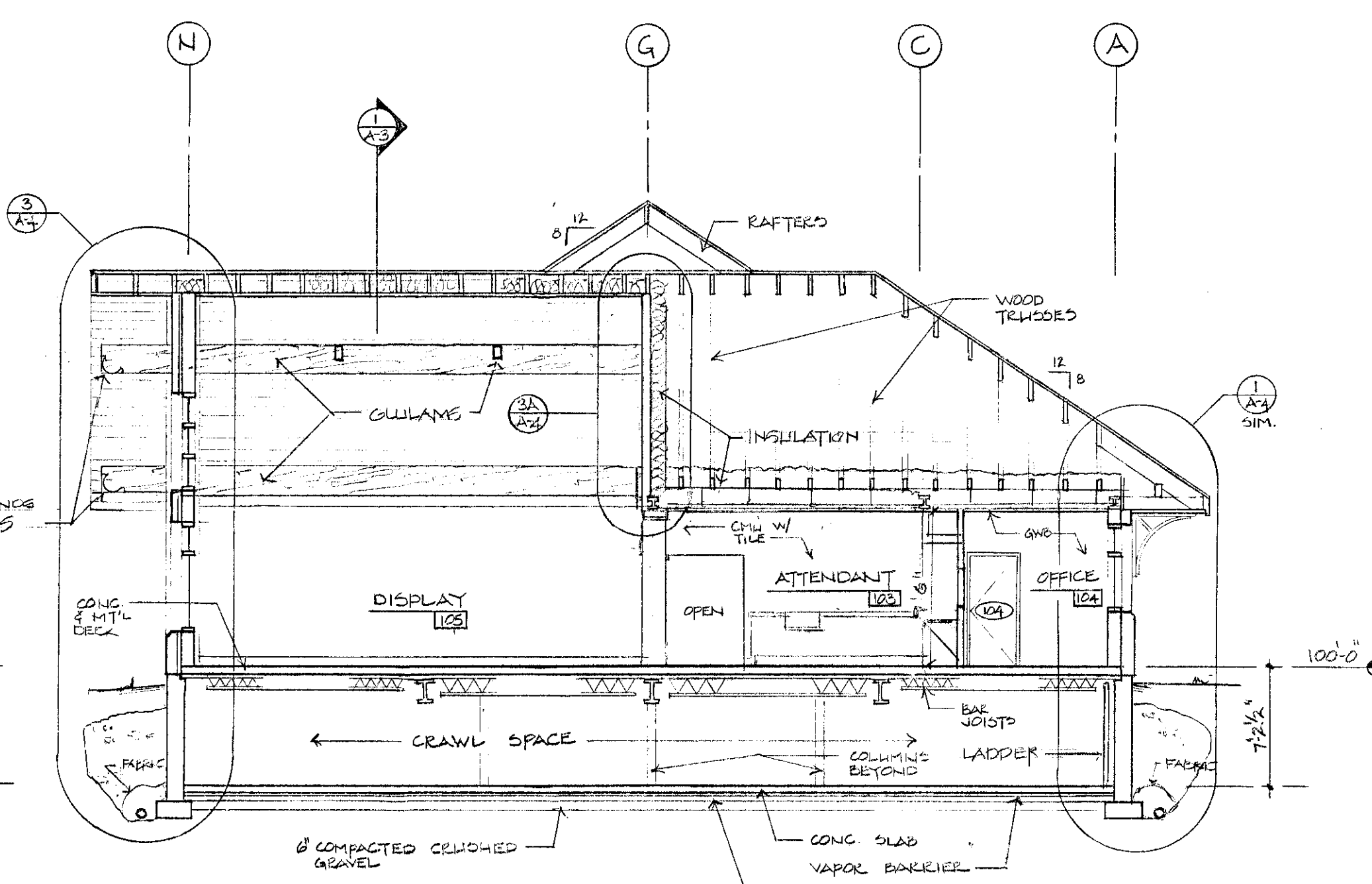
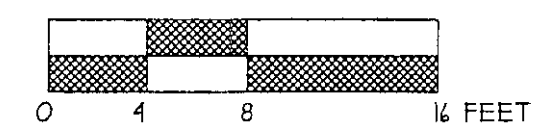
Building Elevations

10.31.00
Date
CLIENT REVIEW
Issued For

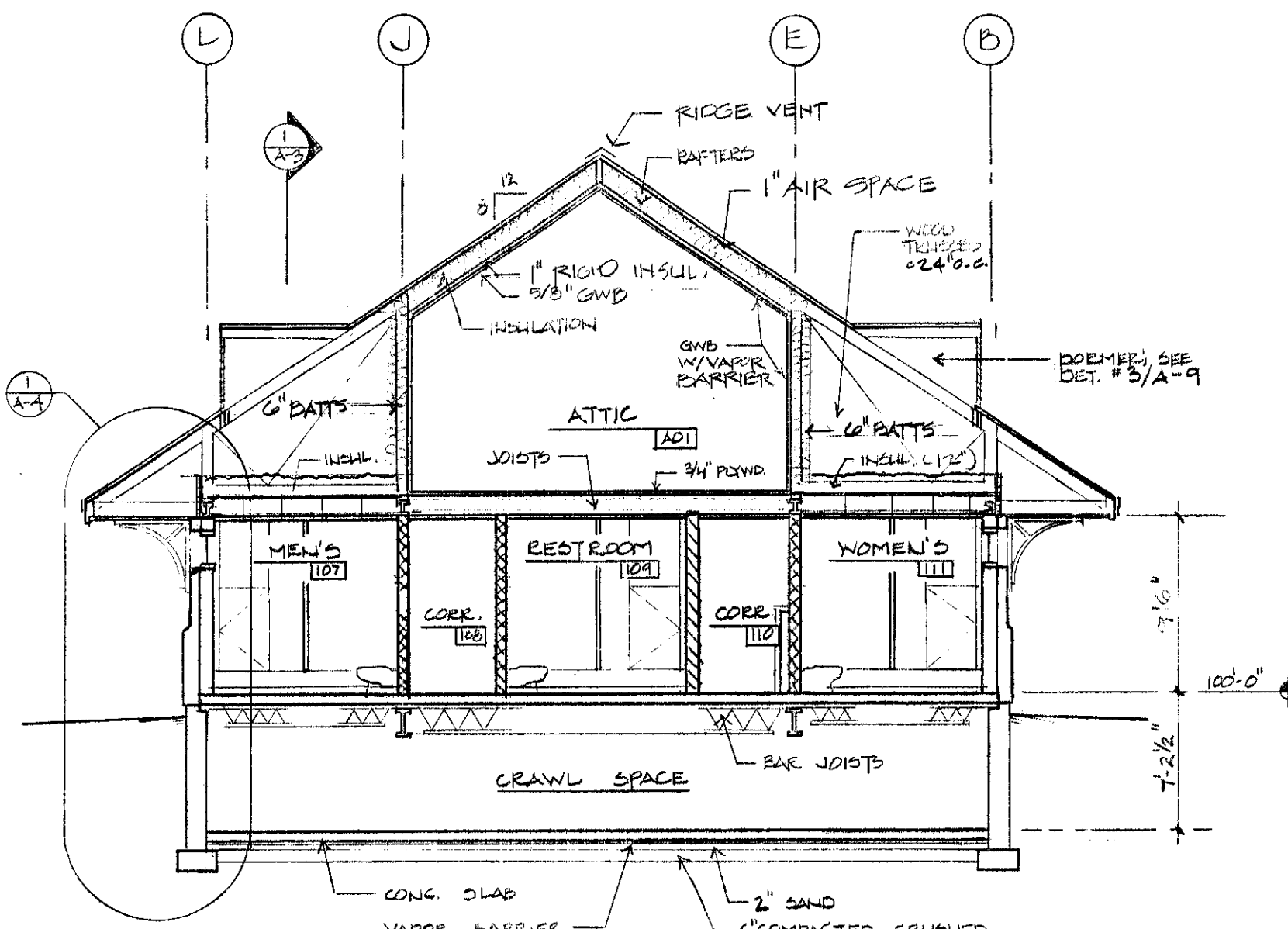
Project: Hartford
Project Number: 9203
A2
Sheet # 2 of 28



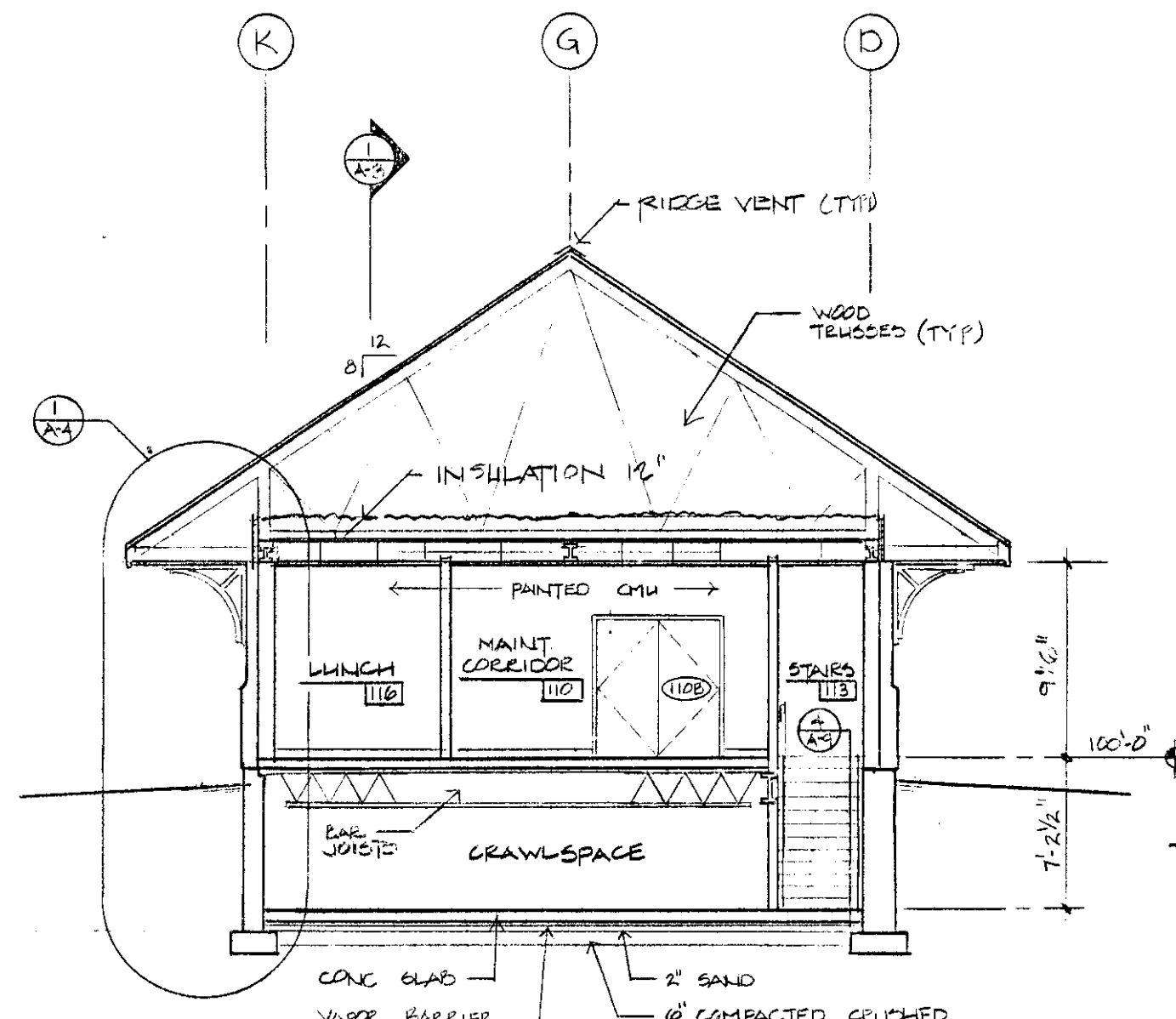
1 CROSS SECTION
A-3
1/8" = 1'-0"



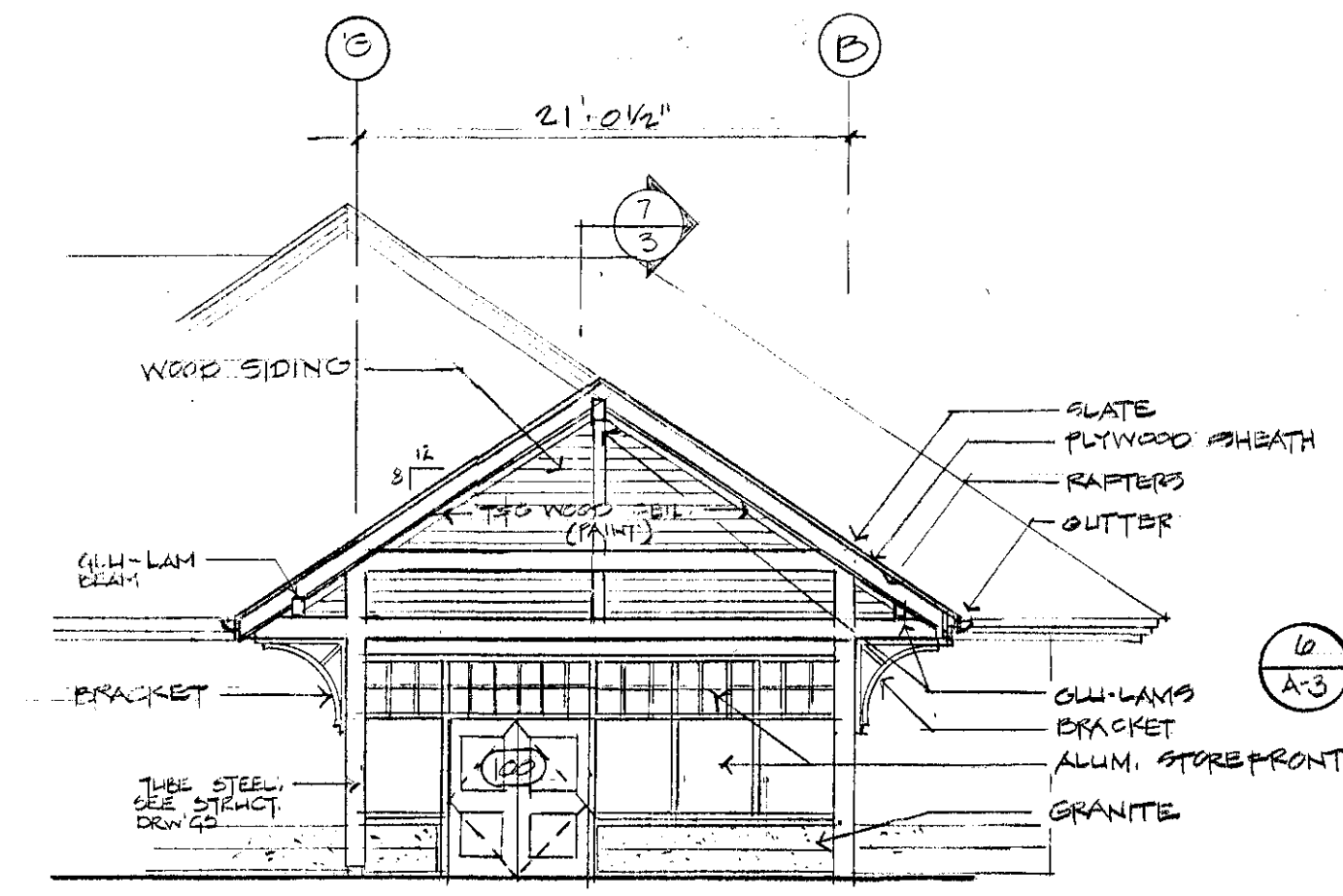
2 CROSS SECTION
A-3
1/8" = 1'-0"



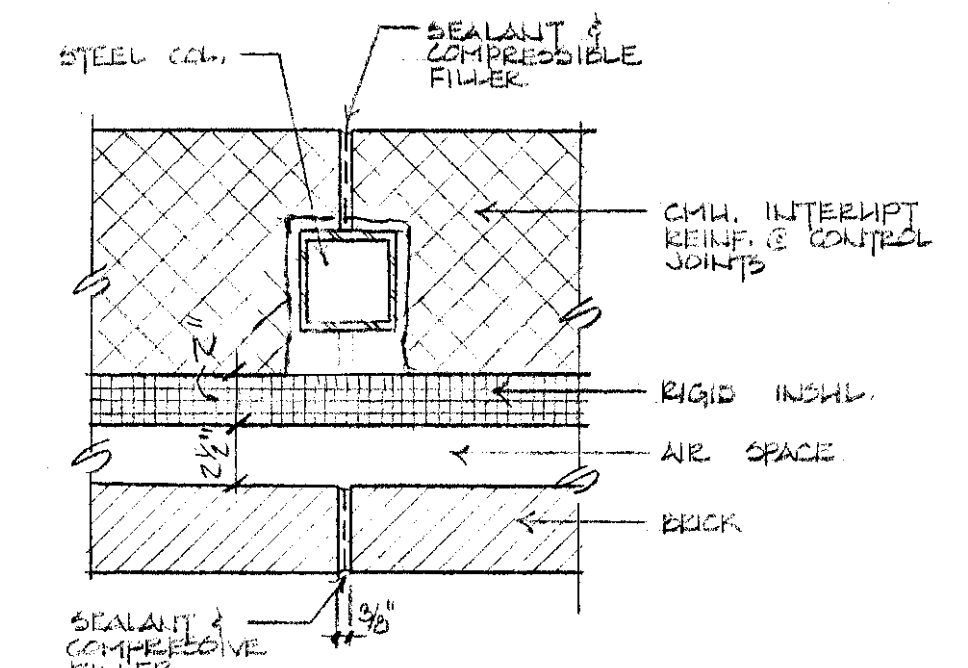
3 CROSS SECTION
A-3
1/8" = 1'-0"



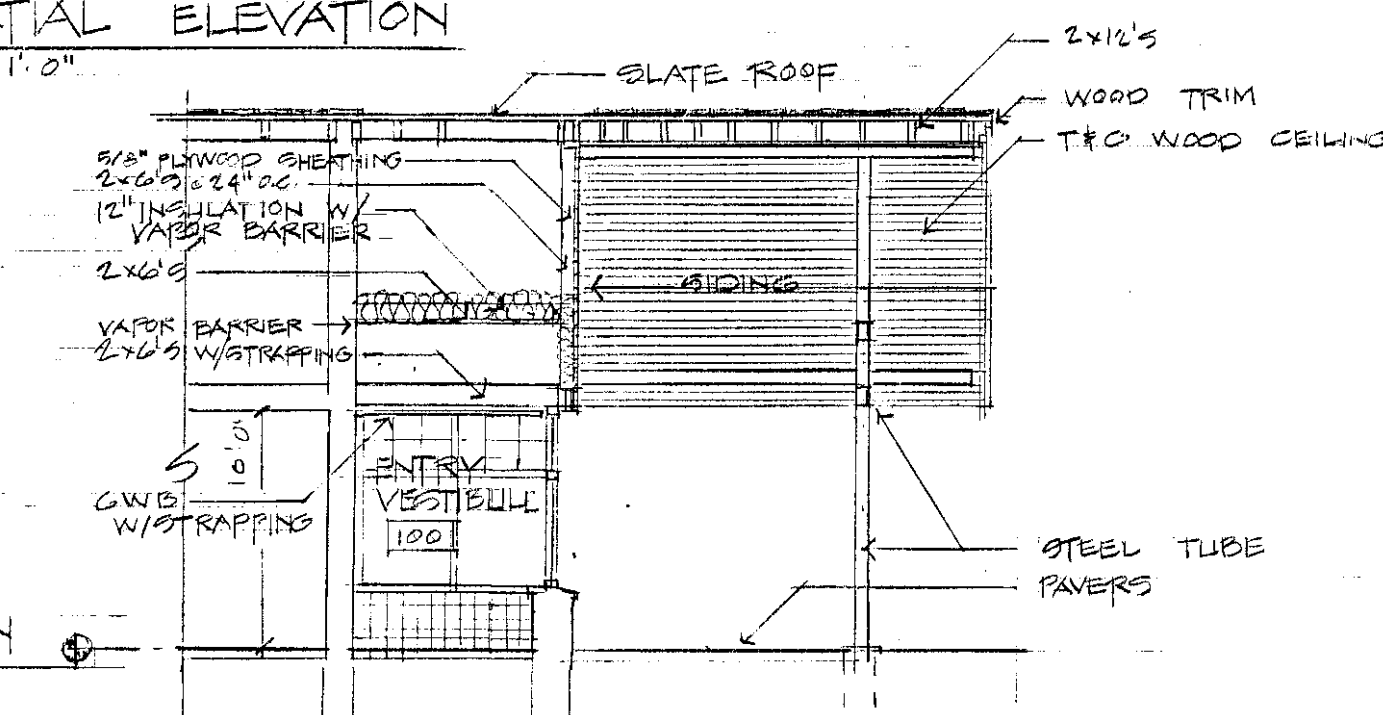
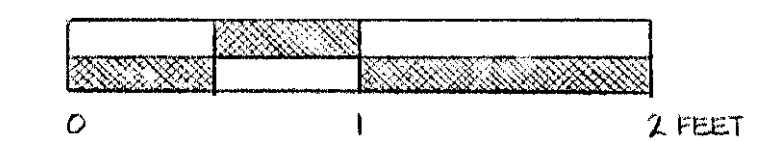
4 CROSS SECTION
A-3
1/8" = 1'-0"



5 PARTIAL ELEVATION
A-3
1/8" = 1'-0"



6 CONTROL JOINT @ COL. (TYP)
A-3
1/8" = 1'-0"



7 PARTIAL SECTION
A-3
1/8" = 1'-0"

N.B.F.
Nimtz • Berryhill • Figiel
ARCHITECTS P.C.
24 1/2 Center Street
Rutland, Vermont
0 5 7 0 1

Steven J. Banik, P.E.
STRUCTURAL ENGINEER
Cuttingsville, Vermont
0 5 7 3 8

LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.
Rutland, Vermont
0 5 7 0 1

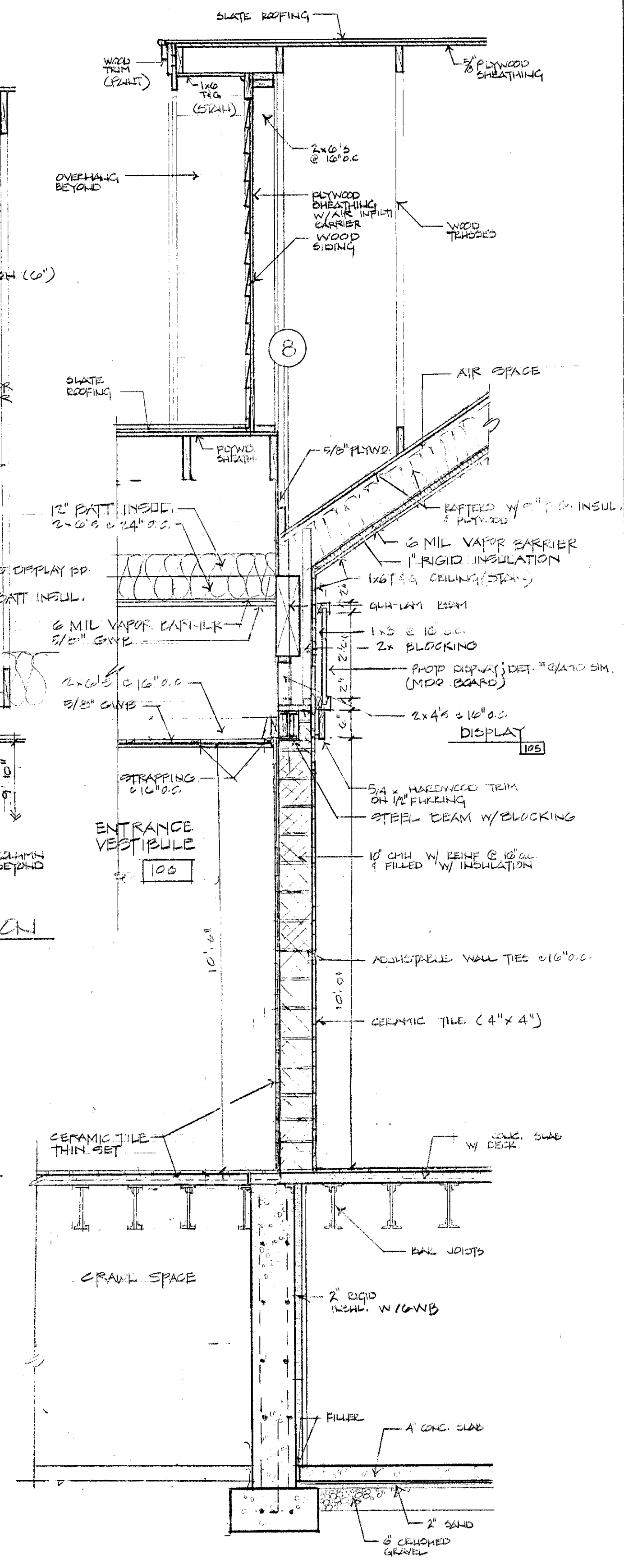
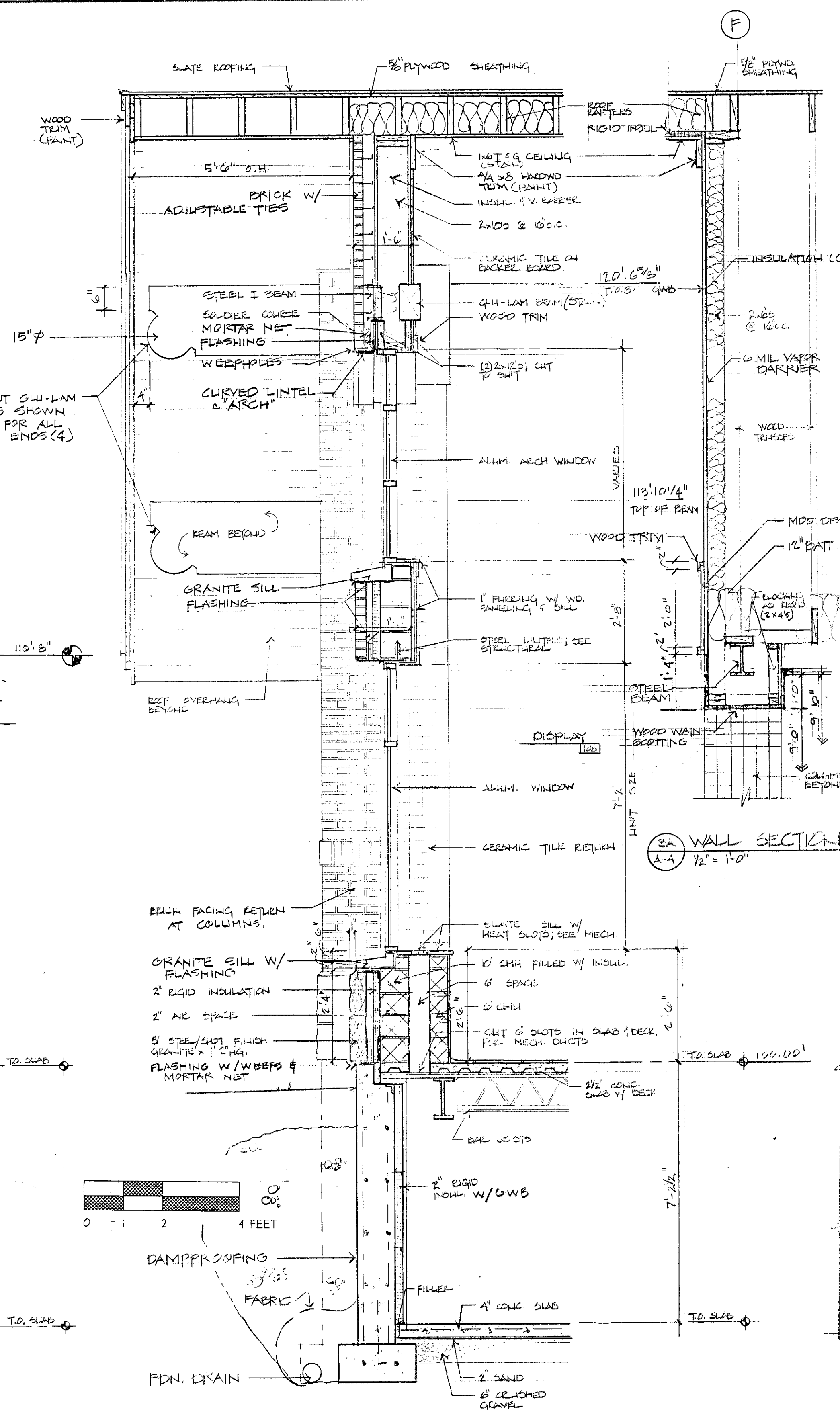
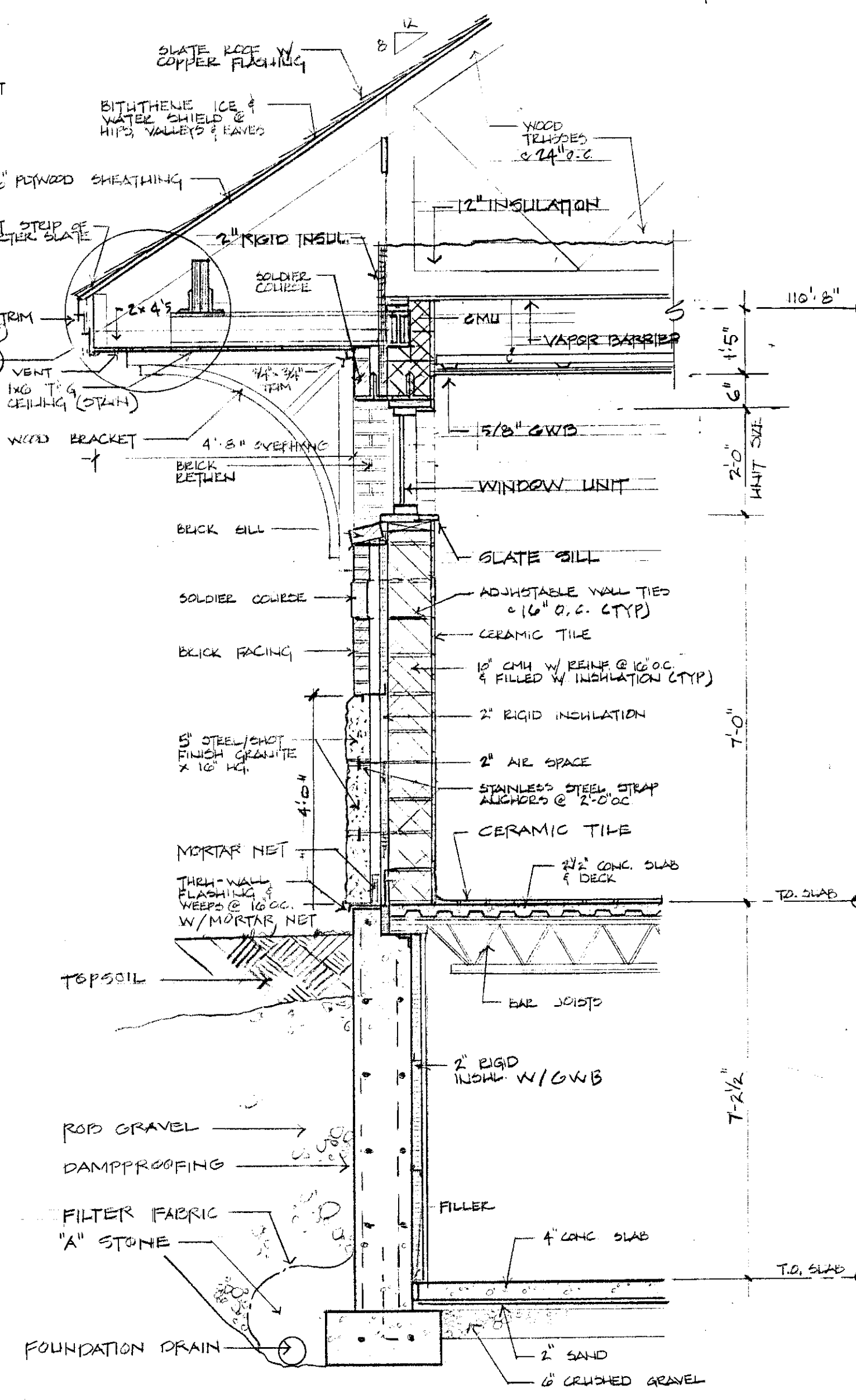
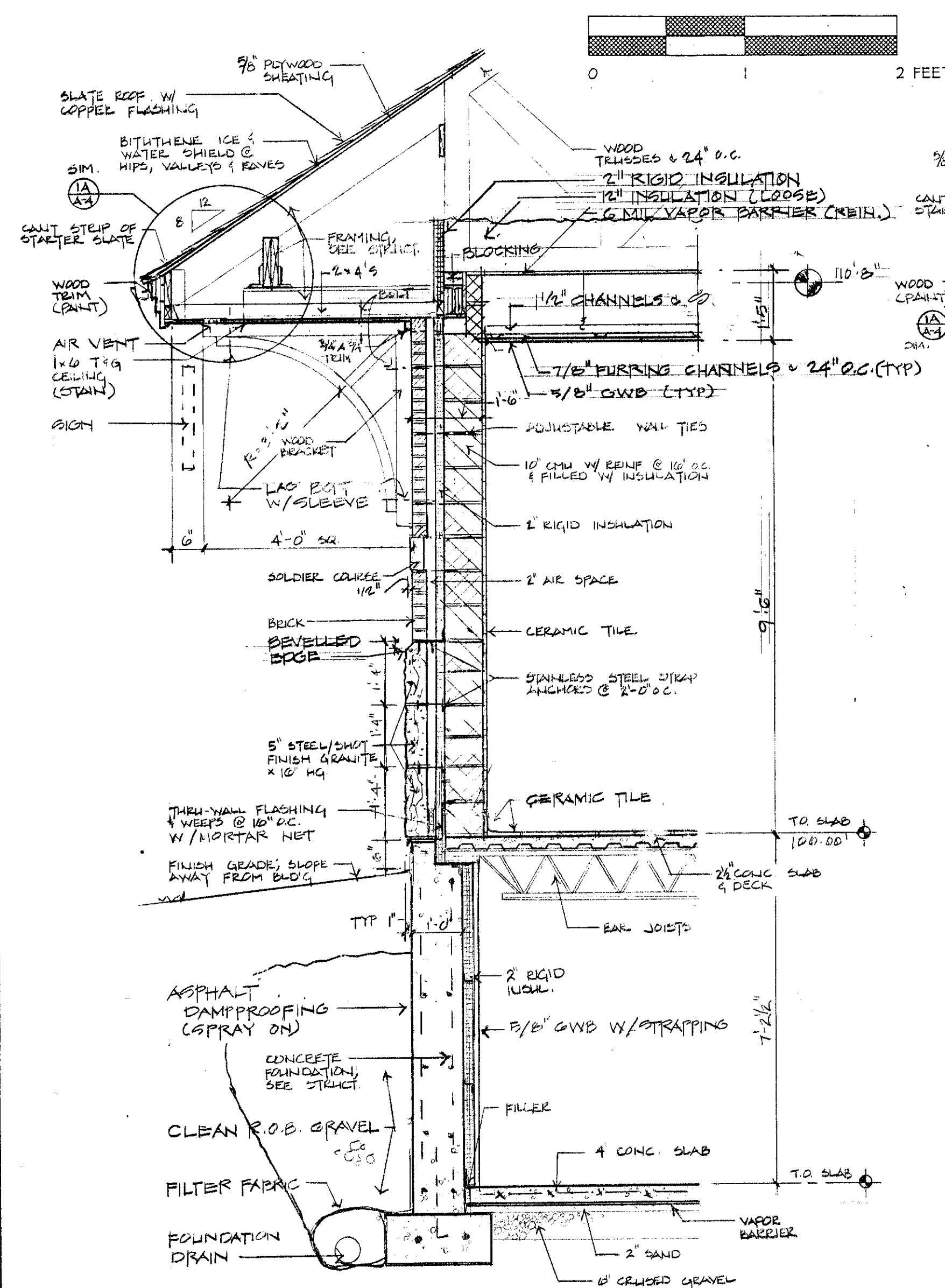
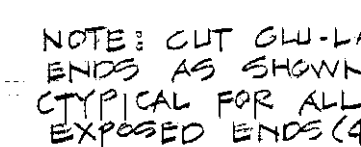
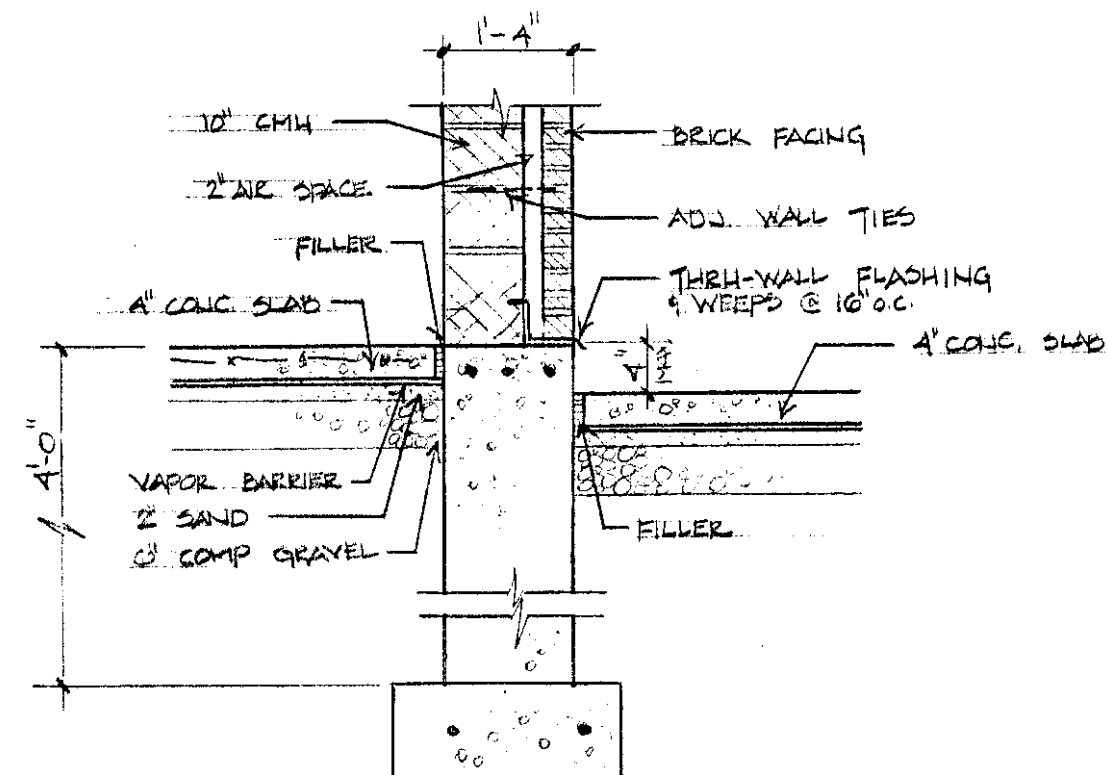
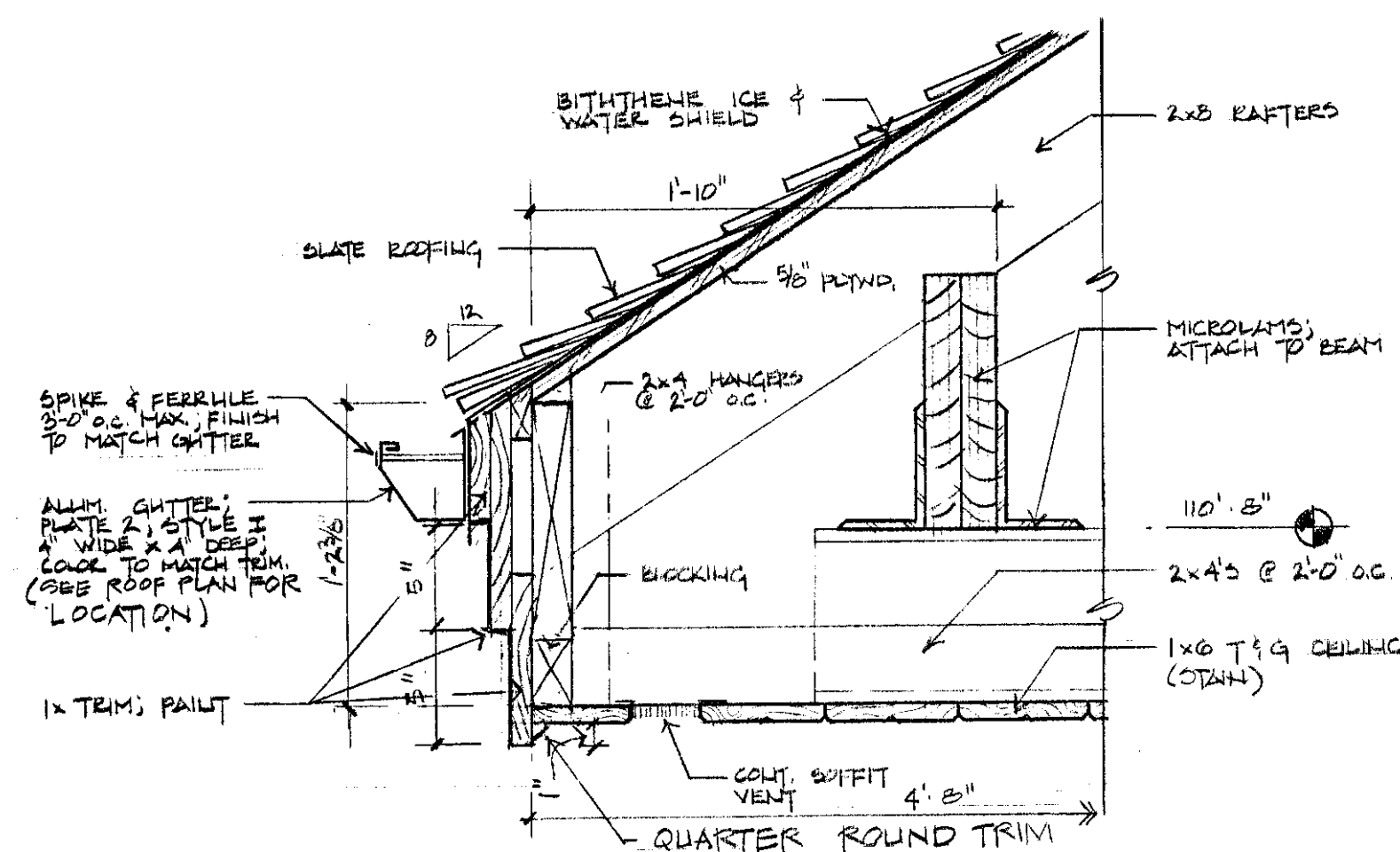
DuBois & King
• Engineering • Planning
• Development • Management
Rutland, Vermont
0 5 7 0 1

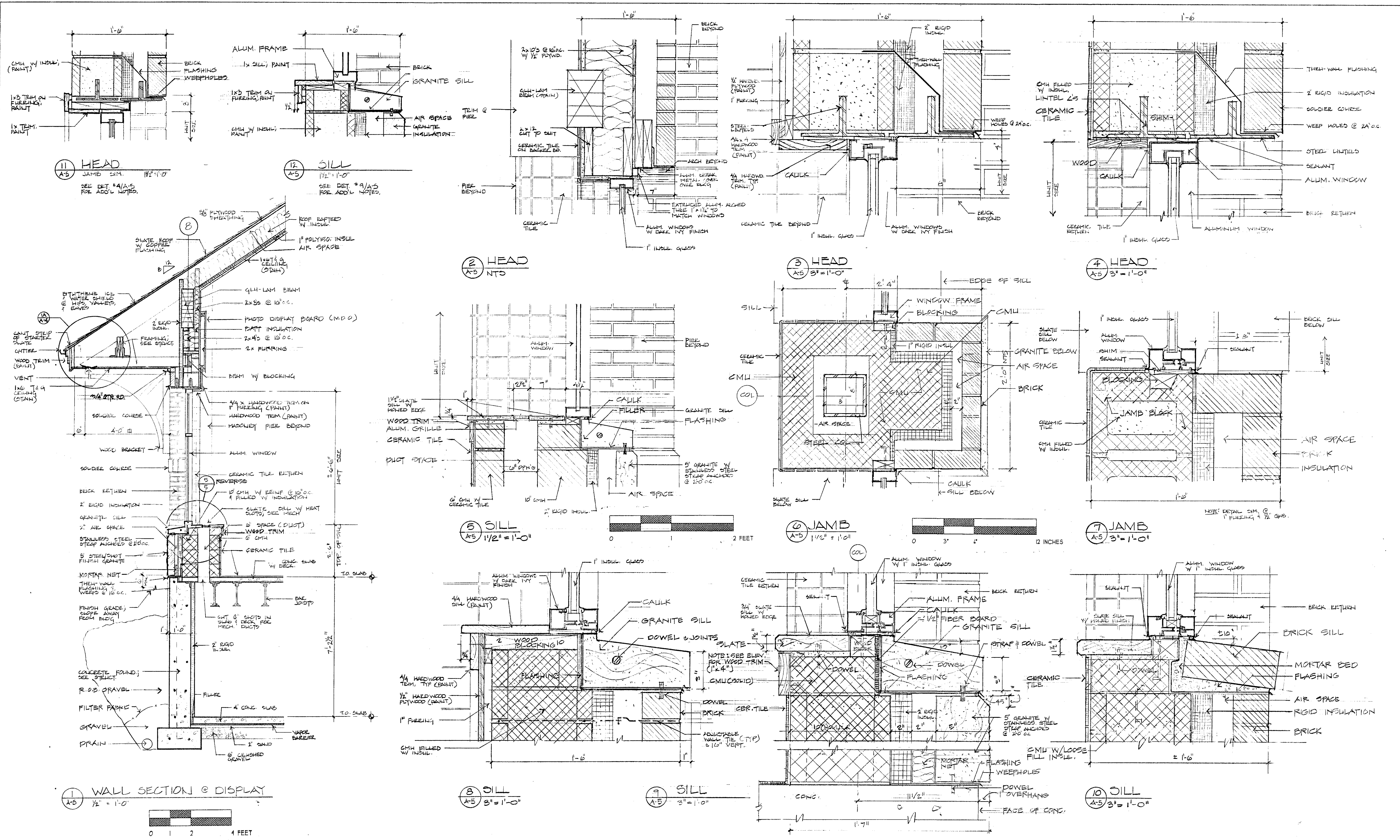
Southbound I-91
Hartford
Travel and Information Center
Hartford, Vermont

Cross Sections

10-31-00 CLIENT REVIEW
Date Issued For

Project: Hartford
Project Number: 9203
A3
Sheet # 3 of 28





N.B.F.

Nimtz • Berryhill • Figiel
ARCHITECTS P.C.
24 1/2 Center Street
Rutland, Vermont
0 5 7 0 1

Steven J. Banik, P.E.
STRUCTURAL ENGINEER
Cuttingsville, Vermont
0 5 7 3 8

LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.
Rutland, Vermont
0 5 7 0 1

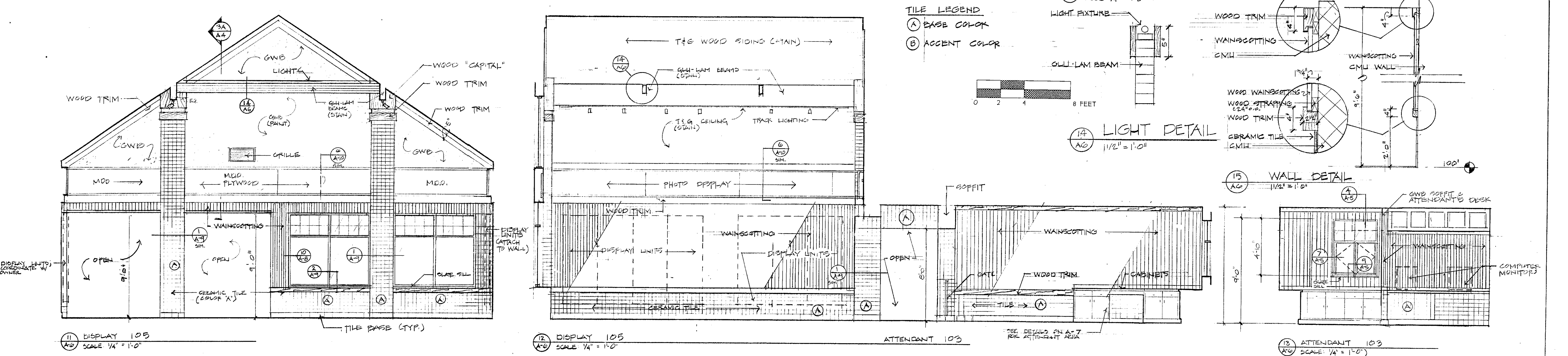
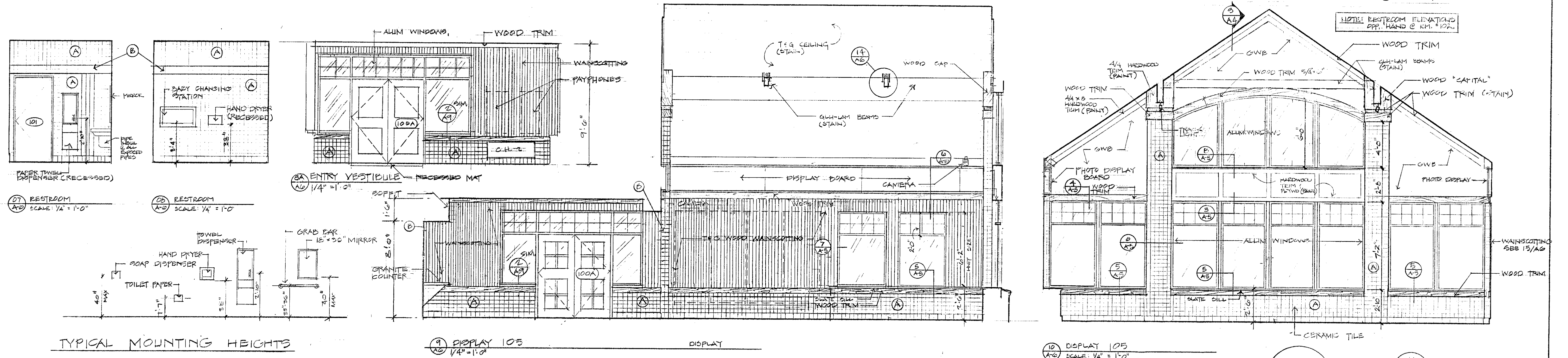
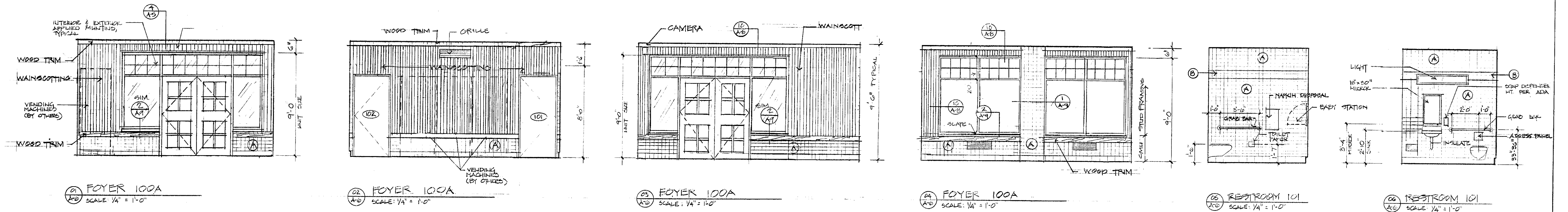
Dubois & King
• Engineering • Planning
• Development • Management
Rutland, Vermont
0 5 7 0 1

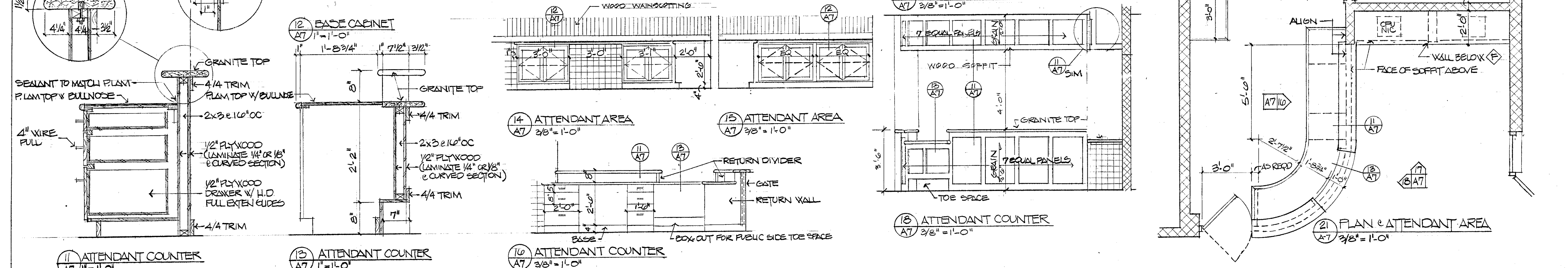
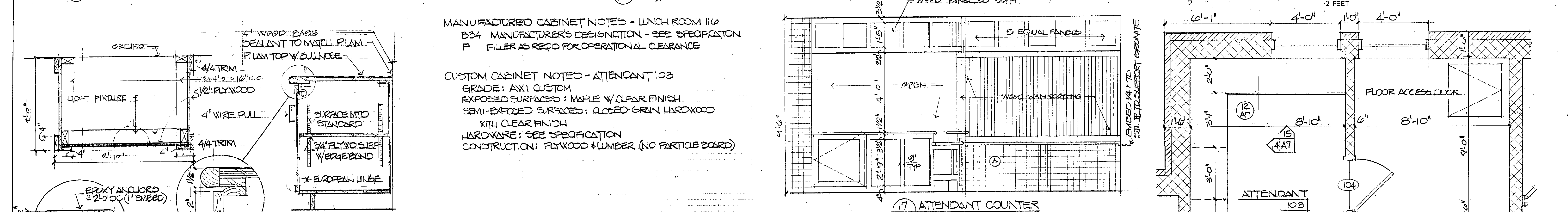
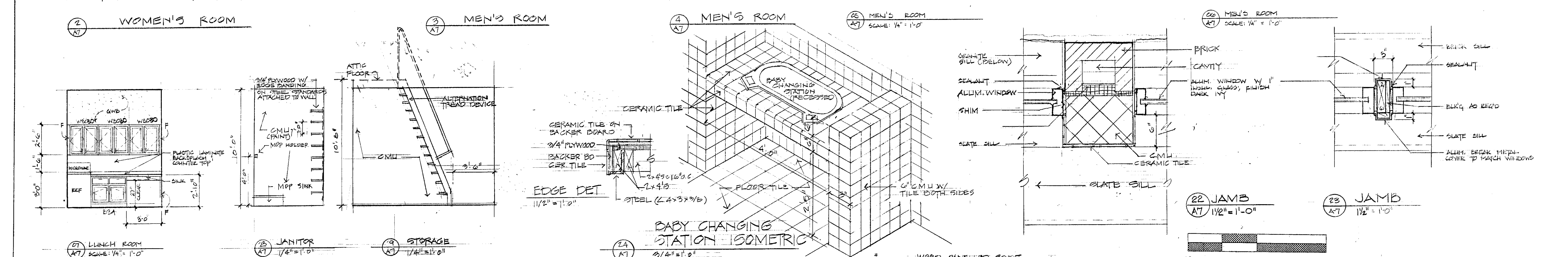
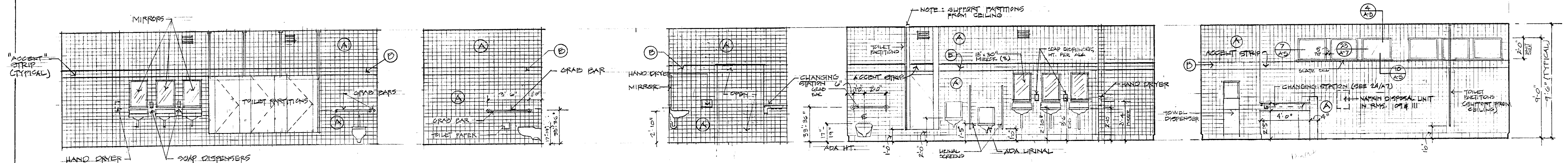
Southbound I-91
Hartford
Travel and Information Center
Hartford, Vermont

Wall Section
Window Details

10/31/00 CLIENT REVIEW
Date Issued For

Project: Hartford
Project Number: 9203
A5
Sheet # 5 Of 23



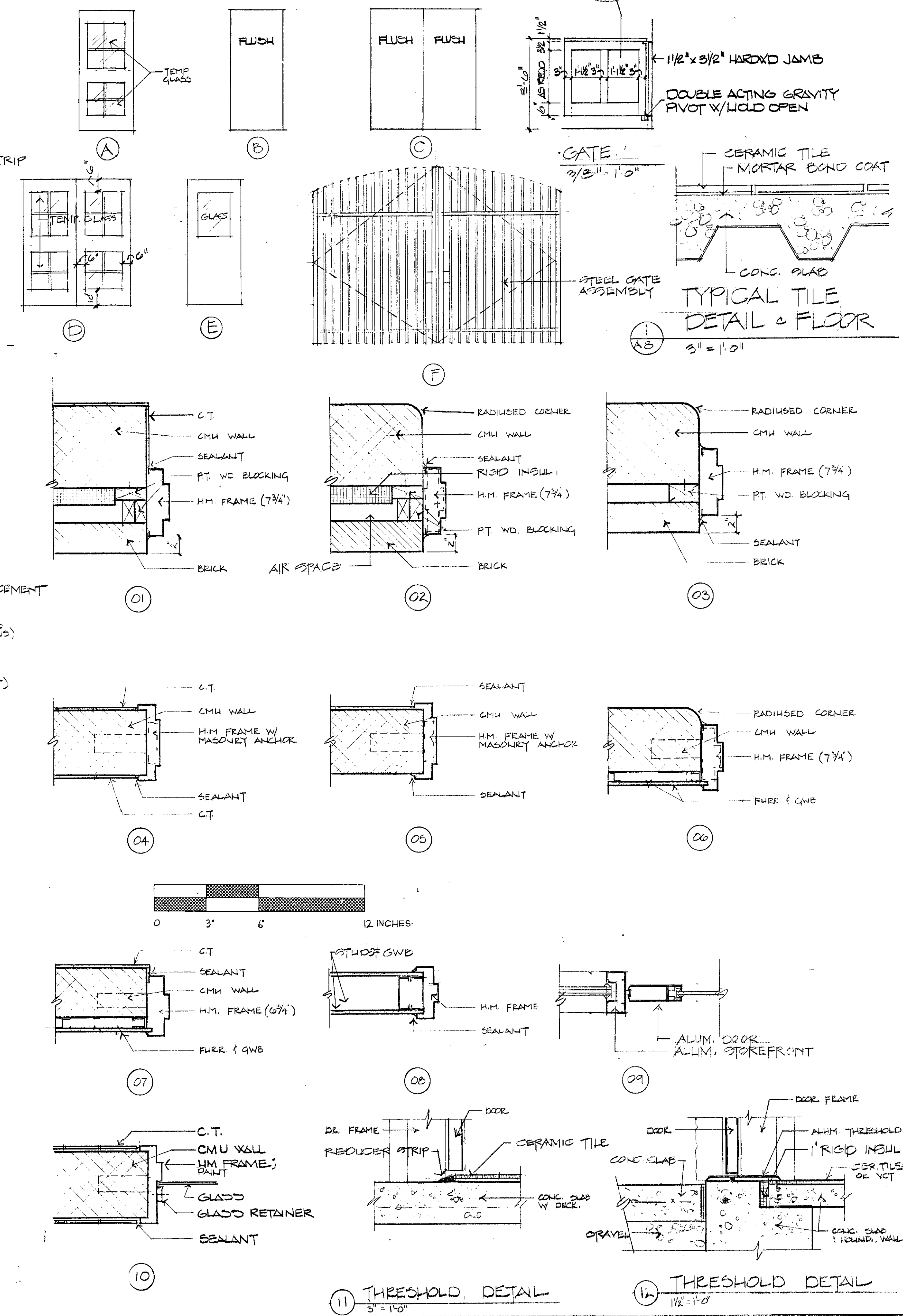


ROOM FINISH SCHEDULE												
#	ROOM NAME	FLOOR		BASE		WALLS		TRIM		CEILING		REMARKS
		MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	MAT.	FIN.	
100	ENTRANCE VESTIBULE	CONC.	C.T.	C.T.	---	C.M.U.	C.T./WD.	---	---	GWB	PAINT	9'6"
101	RESTROOM	CONC.	C.T.	C.T.	---	C.M.U.	C.T.	---	---	GWB	PAINT	9'6"
102	RESTROOM	CONC.	C.T.	C.T.	---	C.M.U.	C.T.	---	---	GWB	PAINT	9'6"
103	ATTENDANT	CONC.	C.T.	C.T.	---	C.M.U.	C.T./WD.	---	---	GWB	PAINT	9'6" PAINT IN PEEK
104	OFFICE	CONC.	C.T.	C.T.	---	C.M.U./GWB	PAINT	---	---	GWB	PAINT	9'6" FLOOR HATCH
105	DISPLAY	CONC.	C.T.	C.T.	---	C.M.U.	C.T./WD.	WOOD	PAINT	WOOD	STAIN	VARIES
106	CORRIDOR	CONC.	C.T.	C.T.	---	C.M.U.	C.T.	---	---	GWB	PAINT	9'6"
107	MEN'S ROOM	CONC.	C.T.	C.T.	---	C.M.U.	C.T.	---	---	GWB	PAINT	9'6"
108	MAINT. CORRIDOR	CONC.	V.C.T.	COVE	---	C.M.U.	PAINT	---	---	GWB	PAINT	9'6"
109	RESTROOM	CONC.	C.T.	C.T.	---	C.M.U.	C.T.	---	---	GWB	PAINT	9'6"
110	MAINT. CORRIDOR	CONC.	V.C.T.	COVE	---	C.M.U./GWB	PAINT	---	---	GWB	PAINT	9'6"
111	WOMEN'S ROOM	CONC.	C.T.	C.T.	---	C.M.U.	C.T.	---	---	GWB	PAINT	9'6"
112	ELEC. STORAGE	CONC.	PAINT	COVE	---	C.M.U./GWB	PAINT	---	---	GWB	PAINT	9'6"
113	STAIRS	CONC./W.C.	PAINT	---	---	C.M.U./GWB	PAINT	---	---	GWB	PAINT	9'6"
114	BOILER	CONC.	PAINT	COVE	---	C.M.U./GWB	PAINT	---	---	GWB	PAINT	9'6"
115	J. CLOSET & STORAGE	CONC.	V.C.T.	COVE	---	C.M.U./GWB	PAINT	---	---	GWB	PAINT	9'6"
116	LUCKY ROOM	CONC.	V.C.T.	COVE	---	C.M.U./GWB	PAINT	---	---	GWB	PAINT	9'6"
117	STORAGE	CONC.	---	---	---	C.M.U.	---	---	---	GWB	PAINT	9'6" SURFACE HARDENER
100A	FOYER	CONC.	C.T.	C.T.	---	C.M.U.	---	---	---	GWB	PAINT	9'6" RECESSED MAT
201	ATTIC	WOOD	PAINT	---	---	GWB	PAINT	---	---	GWB	PAINT	VARIES 3/4" T&G PLYWOOD FUR.
201	UNFINISHED CRAWL	CONC.	---	---	---	C.M.U.	---	---	---	EXPOSED JOISTS	---	SURFACE HARDENER

DOOR SCHEDULE												
DOOR							FIRE	FRAME			HARDWARE SET	
#	WTH	HGT	TYPE	MAT.	FIN.		RTG	TYPE		SILL	MAT.	FIN.
100	6'0	7'0	D	ALUM.			—	09		12	ALUM.	H-4, L-8, CL-1, PP-1, T, W
100A	6'0	7'0	D	ALUM.			—	09	●	ALUM.		H-4, L-8, CL-1, PP-1, W
100B	6'0	7'0	D	ALUM.			—	09	●	ALUM.		H-4, L-8, CL-1, PP-1, W
101	3'0	7'0	B	WOOD	STAIN		—	04		—	MTL	PAINT H-1, L-3, L-4, SI, KP, ST
102	3'0	7'0	B	WOOD	STAIN		—	04		—	MTL	PAINT H-1, L-3, L-4, SI, KP, ST
106	3'0	7'0	B	H.M.	PAINT		—	01	●	—	MTL	PAINT H-2, L-1, W, T
107	3'0	7'0	B	WOOD	STAIN		—	04		—	MTL	PAINT H-1, L-7, PP-1, SI, KP, ST
108	3'0	7'0	B	WOOD	STAIN		—	04		—	MTL	PAINT H-1, L-7, PP-1, SI, KP, REDUCER S
109	3'0	7'0	B	WOOD	STAIN		—	05		—	MTL	PAINT H-1, L-7, PP-1, SI, KP, ST, REDUCER
110A	2'0	7'0	B	WOOD	STAIN		—	05		11	MTL	PAINT H-1, L-6, SI, KP, REDUCER STR
110B	6'0	7'0	C	H.M.	PAINT		—	02		12	MTL	PAINT H-2, L-2, FB, DH, W, T
111	3'0	7'0	B	WOOD	STAIN		—	05		—	MTL	PAINT H-1, L-7, PP-1, SI, ST, KP
112	3'0	7'0	B	WOOD	STAIN		—	05		—	MTL	PAINT H-1, L-6, SI, KP,
113	3'0	7'0	B	WOOD	STAIN	COM		02		—	MTL	PAINT H-1, L-2, FB, DH, W, T
114	3'0	7'0	B	WOOD	STAIN	COM		05		—	MTL	PAINT H-1, L-2, ST, SI, REDUCER STR
115	3'0	7'0	B	WOOD	STAIN		—	05		—	MTL	PAINT H-1, L-7, PP-1, SI, DB, KP
116	3'0	7'0	B	WOOD	STAIN		—	05		—	MTL	PAINT H-1, L-3, CL, SI, V. REDUCER STRIP
117	6'0	7'0	C	H.M.	PAINT			05		12	MTL	PAINT H-2, L-2, FB, DH
118	3'0	7'0	B	WOOD	STAIN			03		—	MTL	PAINT H-1, L-2, SI, ST
119A/119B	VARIES	F	STEEL	PAINT						—	MTL	PAINT HINGES & LOCKS BY MANUF.
119B	VARIES	F	STEEL	PAINT						—	MTL	PAINT HINGES & LOCKS BY MANUF.
200	3'0	6'6	B	H.M.	PAINT	COM		05		—	MTL	PAINT H-1, L-3

DOOR TYPES

1/4" = 1'-0"



WALL TYPES

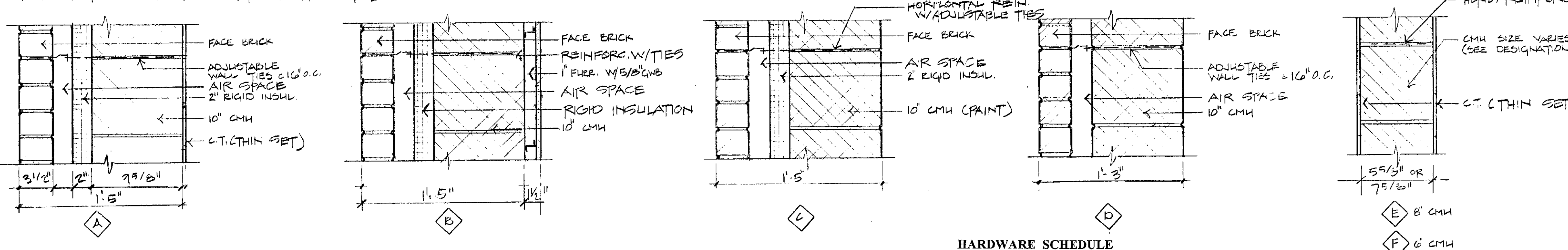
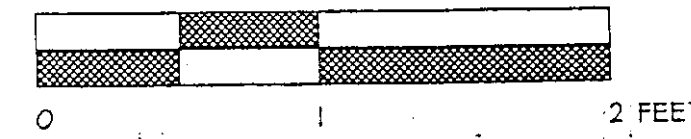
1/2" = 1'-0"

NOTE: NOM. DIMENSIONS ARE TO FACE OF BLOCK

NOTE: USE RADIO OR SHUL NOSE CORNERS @ ALL EXPOSED AREAS

NOTE: USE STE AND BUTLE TIES - TYPE (9 GA) @ 10" OC. SPACING

1 NUMBERED BESIDE SYMBOL DENOTES WALL FIRE RATING IN MINUTES



HARDWARE SCHEDULE

SYMBOL	ITEM DESCRIPTION	MANUFACTURER & PRODUCT DESIGNATION
H-1	1 1/2" pair ball bearing butt hinges per leaf	Stanley FBB 179 4 1/2 x 4 1/2 US4 for 3'-0" wide doors
H-2	1 1/2" pair non-ferrous ball bearing butt hinges per leaf with non-removable pin	Stanley FBB 168 4 1/2 x 4 1/2 US4 (for doors over 3'-0" w)
H-3	Gravity Pivot Hinges	Bonner Type 7512-H, US4
H-4	1 1/2" pair stainless steel butt hinges	KAWNEER 9445 W/NRP
L-1	Panic Exit Device, lever handle	NT Monarch 18-M-4LE "Dane", US4
L-2	Mortise Storeroom/Exit Lock, lever handle	NT Falcon LM-581-DN, US4
L-3	Bored lockset, Privacy function, lever handle	NT Falcon T-301-D, US4
L-4	Cylinder deadlock	NT Falcon #D421, US4
L-5	Bored lockset, Passage function, lever handle	NT Falcon T-101-D, US4 (@ fire rated doors use 3/4" proj.)
L-6	Bored lockset, Classroom function, lever handle	NT Falcon T-561-D, US4
L-7	Cylinder deadlock w/ thumb-turn	NT Falcon #D441, US4
Note:	All locks to have 7 pin interchangeable cores.	
CL	PANIC EXIT DEVICE	KAWNEER "DOR-O-MATIC 1690"
CL-1	Closer - one per leaf	Sargent 350 w/ delay action, parallel arm, paint to match frame.
PP	Push plate & pull - one set per leaf @ maintenance side	LCN 4000 SUPER SMOOTHIE
PP-1	KAWNEER "ARCHITECTS CLASSIC L690D"	Ives 8200 8" x 16" US4 Push Plate
SI	Door silencers - 3 per leaf @ jamb, 2 per db'l leaf @ head.	Ives #20
FB	Flush bolts - one pair per leaf	Ives #458 US4
SB	Surface bolts - one pair per leaf	Ives #454, 8" long, US4
ST	Kickplate - one per leaf on push side - 8" high by 1 1/2" less than door width for single door	Ives #8400 Metal US4
DH	Door stop or wall bumper as required one per leaf	Ives #407 1/2" - US4 or Ives #430 series US4 where floor mounted
W	Door holder - one per leaf	Ives #452, 5" long, US4
T	Weatherstripping & seals	National Guard Products, Inc. 5050 Weatherstrip 320V Door bottom Astragal @ db'l doors

LEGEND: ROOM FINISH SCHEDULE ABBREVIATIONS

FLOOR	WALLS
CONC. - CONCRETE	C.M.U. - CONCRETE/MASONRY UNIT
C.T. - CERAMIC TILE	GWB - GYPSUM WALL BOARD
V.C.T. - VINYL TILE	C.T. - CERAMIC TILE
WD. - WOOD	
CPT. - CARPET	
BASE	
C.T. - CERAMIC TILE	
COVE - KICKER	

N.B.F.
Nimtz • Berryhill • Figiel
ARCHITECTS P.C.
24 1/2 Center Street
Rutland, Vermont
0 5 7 0 1

Steven J. Banik, P.E.
STRUCTURAL ENGINEER
Cuttingsville, Vermont
0 5 7 3 8

LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.
Rutland, Vermont
0 5 7 0 1

DuBois & King
• Engineering • Planning
• Development • Management
Rutland, Vermont
0 5 7 0 1

Southbound I-91
Hartford
Travel and Information Center
Hartford, Vermont

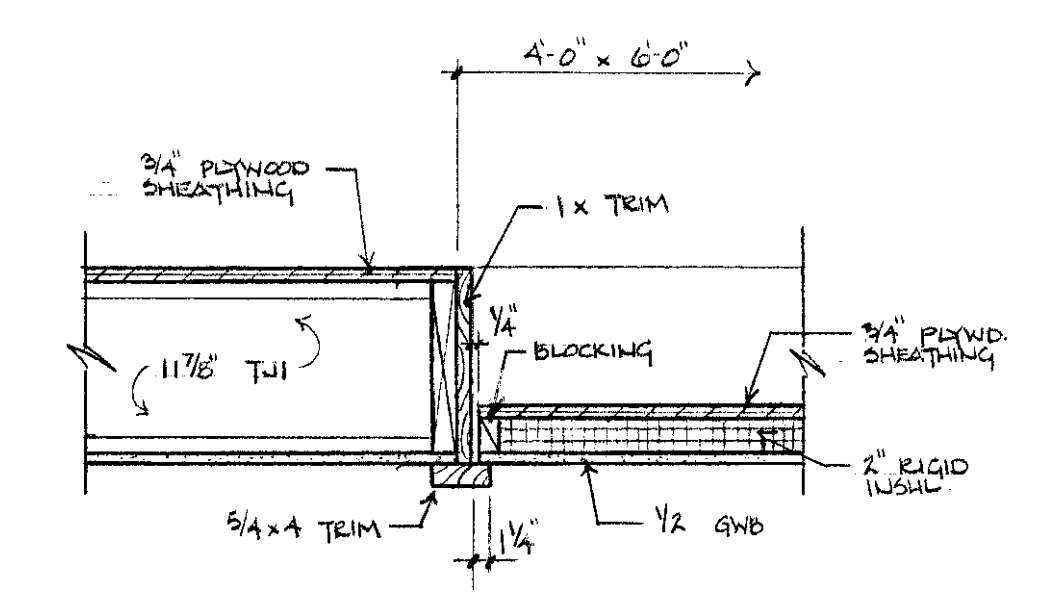
Room Finish Schedule
Door Schedule
Wall, Door & Frame Types
Sheet Title

03/00 CLIENT REVIEW
Date Issued For

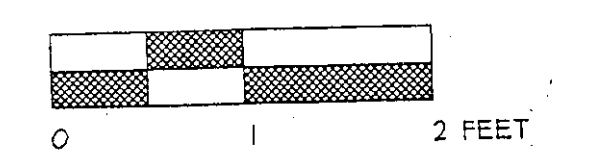
Project: Hartford
Project Number: 9203
A8
Sheet # 8 Of 28

SYMBOLS LIST

- PENDANT MOUNT FIXTURE
- ⊙ CEILING MOUNT FIXTURE
- FLUORESCENT TROFFER
- ⊖ FLUORESCENT OPEN STRIP
- TRACK LIGHTING
- EXHAUST FAN
- ⊠ RETURN AIR
- ⊞ SUPPLY AIR
- ⊗ PENDANT MOUNT EXIT SIGN

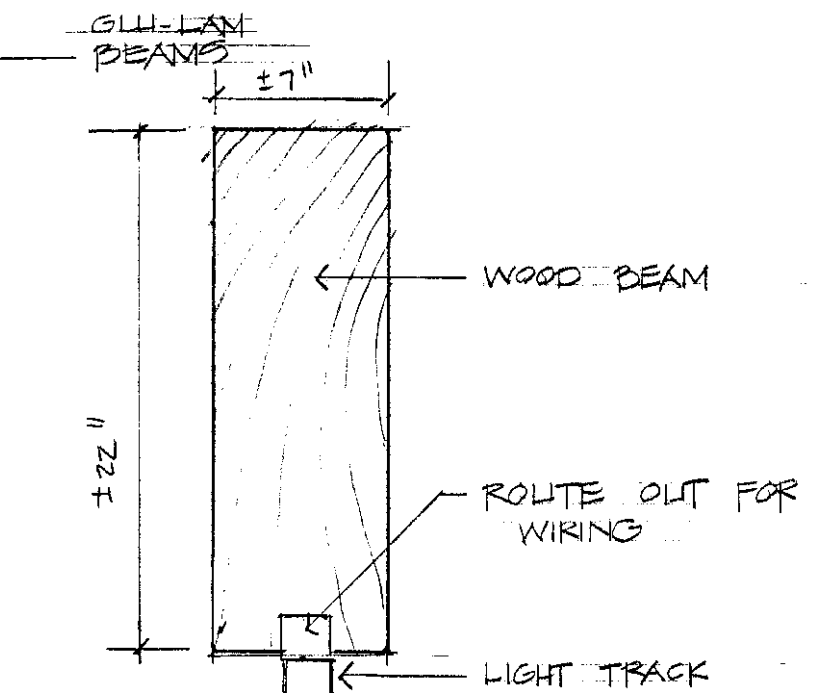


ACCESS PANEL DETAIL
1" = 1'-0"

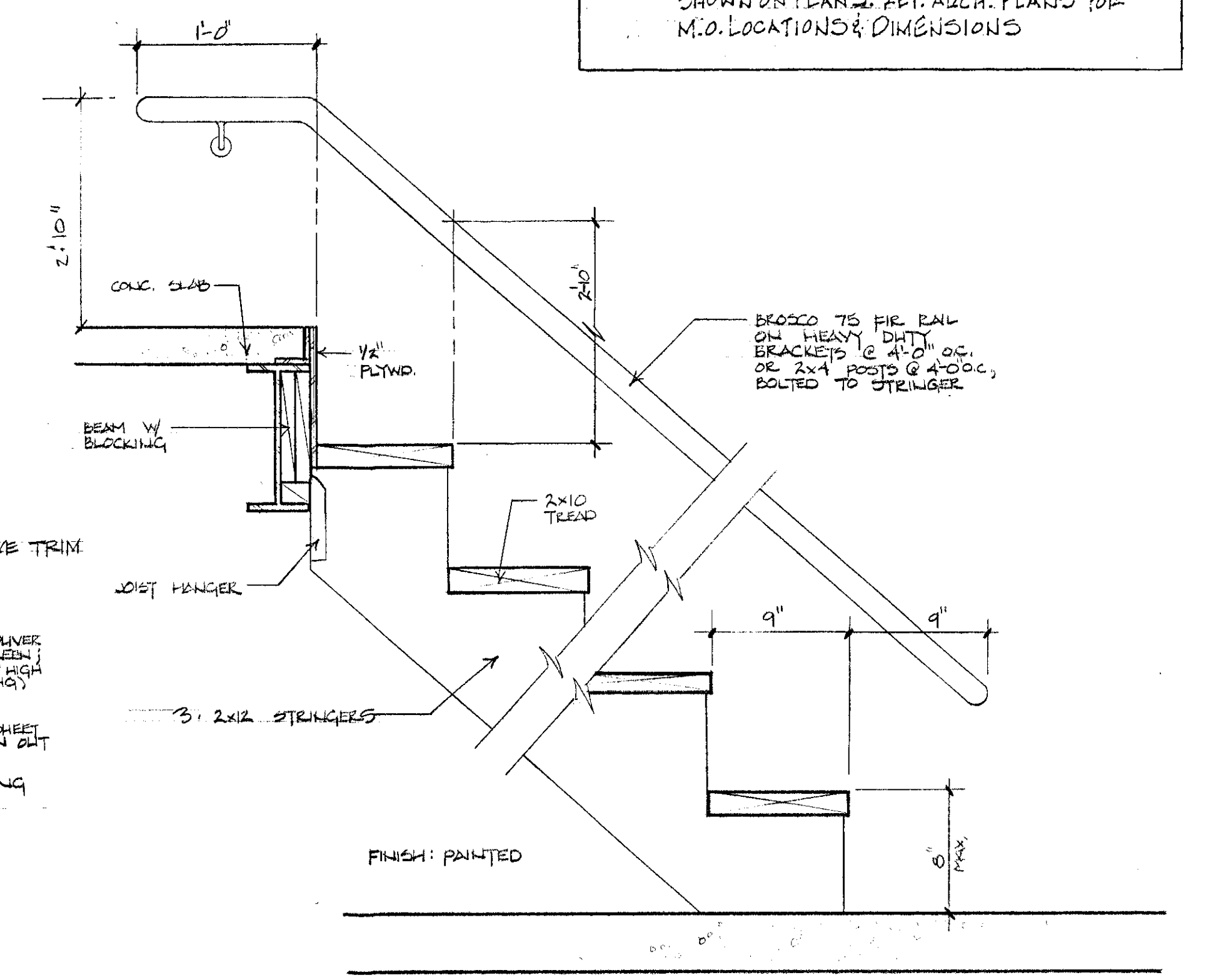


M.O.	BRICK	0" CMU	8" CMU	10" CMU
≤ 4'-0"	L32x32x910	WT4x0	(1) L32x32x910	(3) L32x32x910
≤ 6'-0"	L32x32x910	WT4x0	(1) L32x32x910	(3) L32x32x910
≤ 8'-0"	L32x32x910	WT7x11	(1) L32x32x910	(3) L32x32x910
> 8'-0"	SEE STRUCT. DWGS			

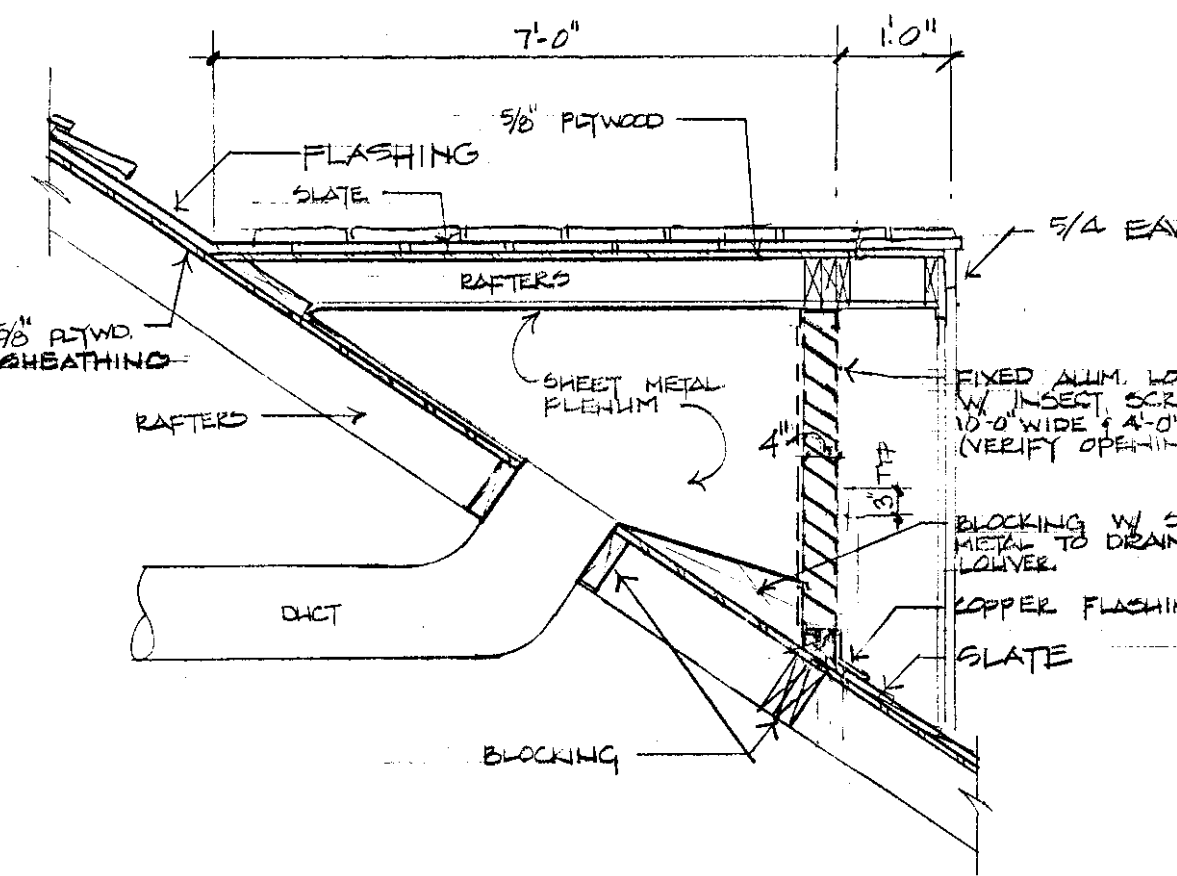
NOTES: 1. USE THIS SCHEDULE FOR ALL LINTELS NOT SHOWN ON PLANS. REF. ARCH. PLANS FOR M.O. LOCATIONS & DIMENSIONS



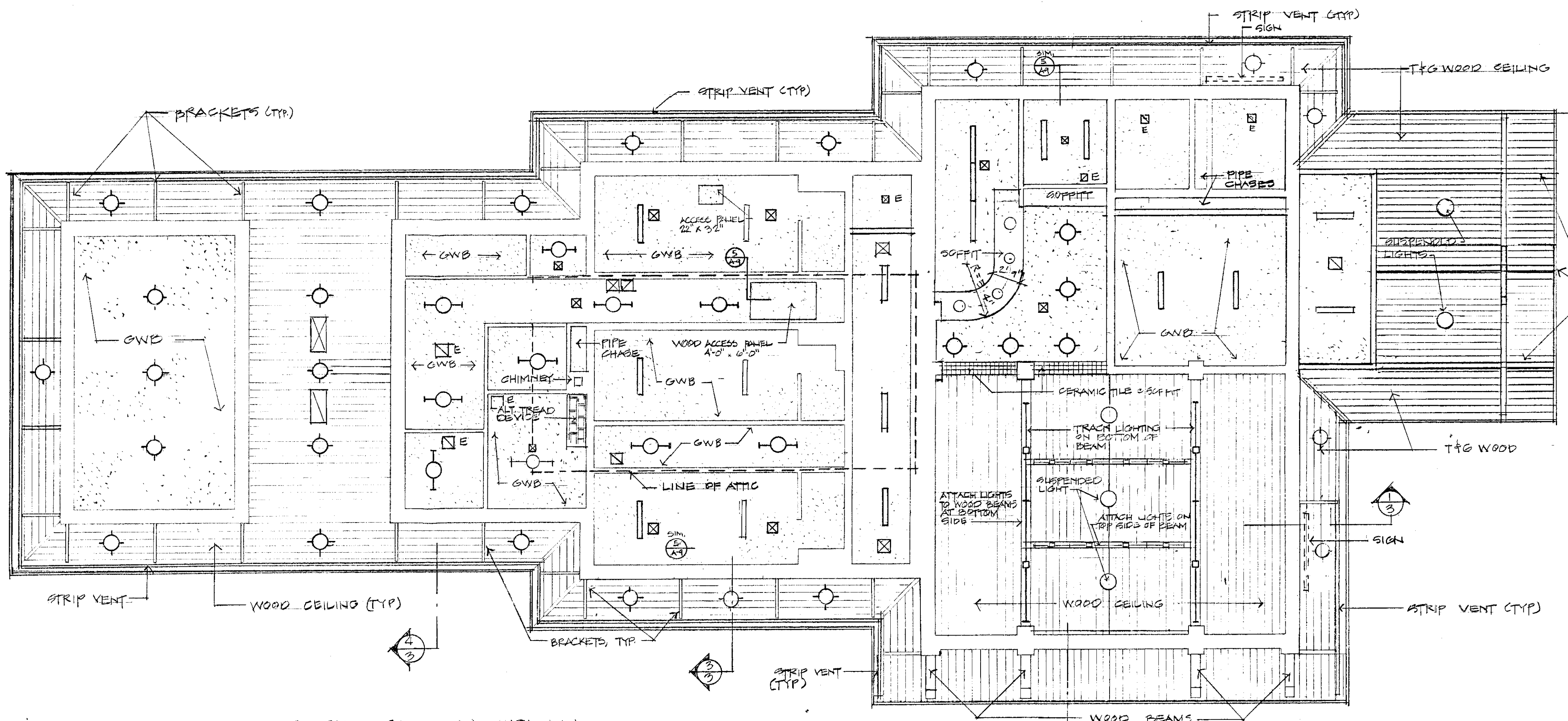
LIGHT DETAIL



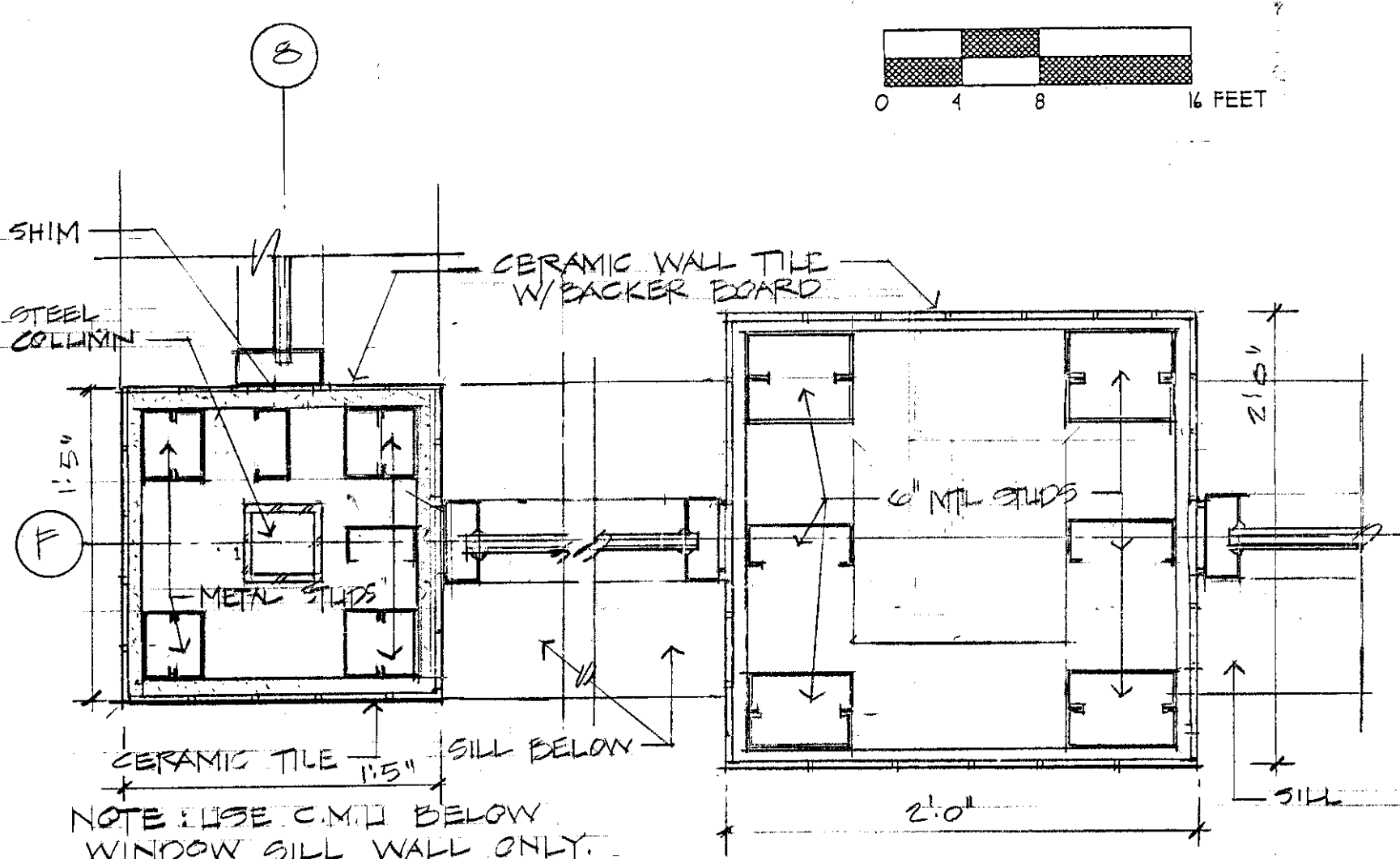
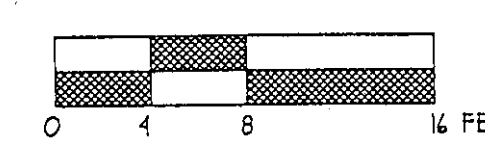
STAIR/RAIL DETAIL
1 1/2" = 1'-0"



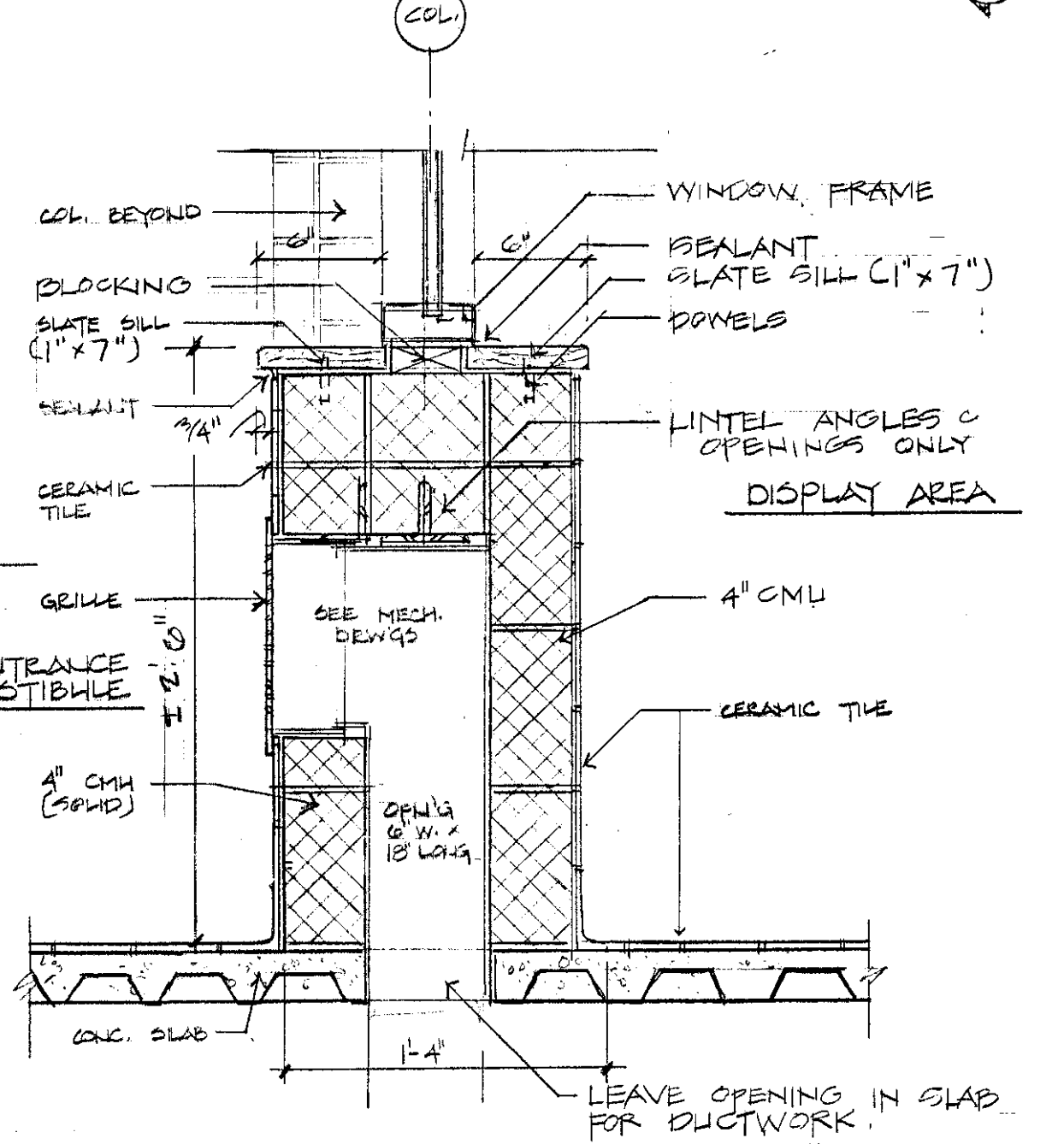
DORMER/LOUVER DETAIL
1/2" = 1'-0"



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



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



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

N.B.F.
Nimtz • Berryhill • Figiel
ARCHITECTS P.C.
24 1/2 Center Street
Rutland, Vermont
05701

Steven J. Banik, P.E.
STRUCTURAL ENGINEER
Cuttingsville, Vermont
05738

LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.
Rutland, Vermont
05701

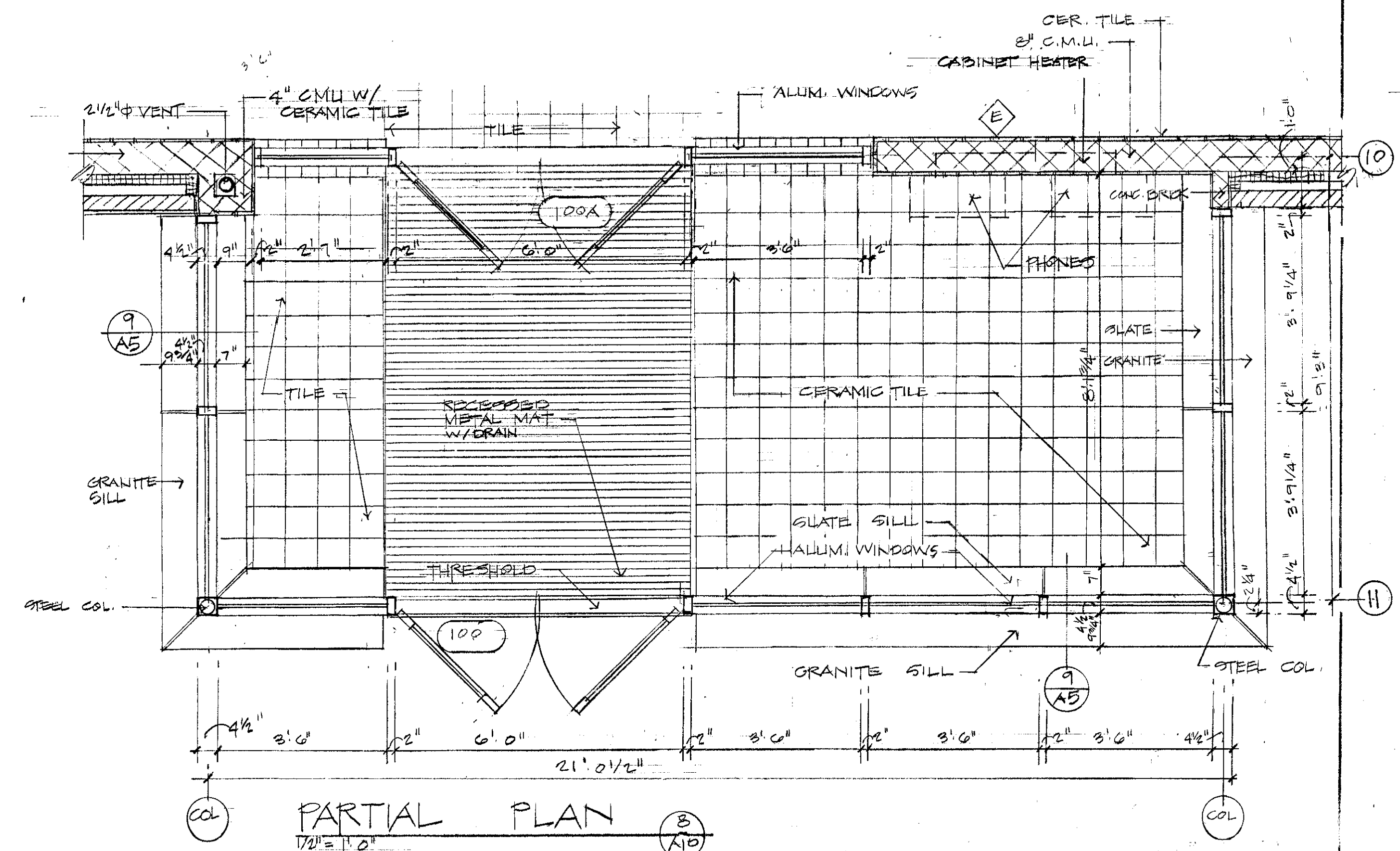
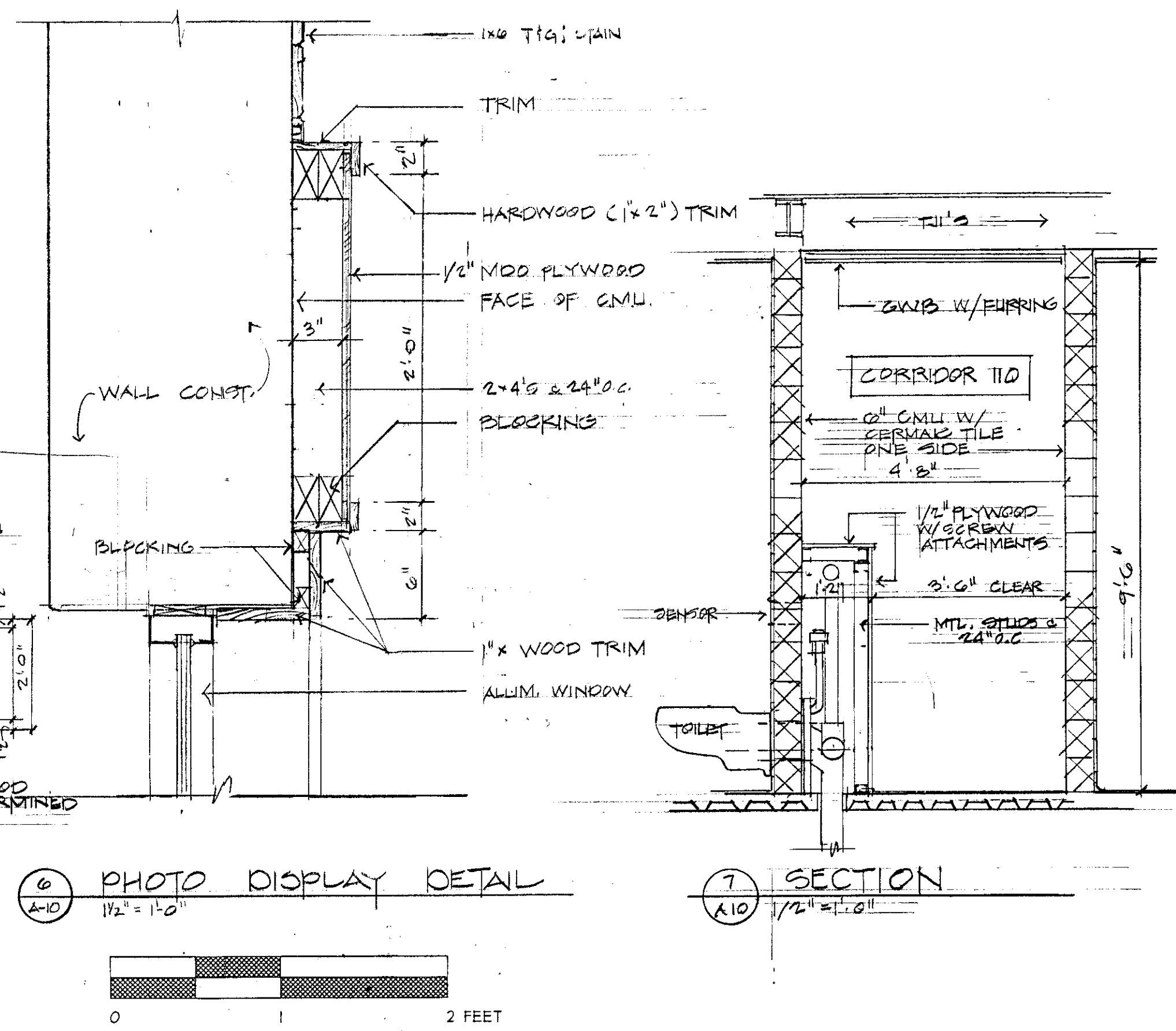
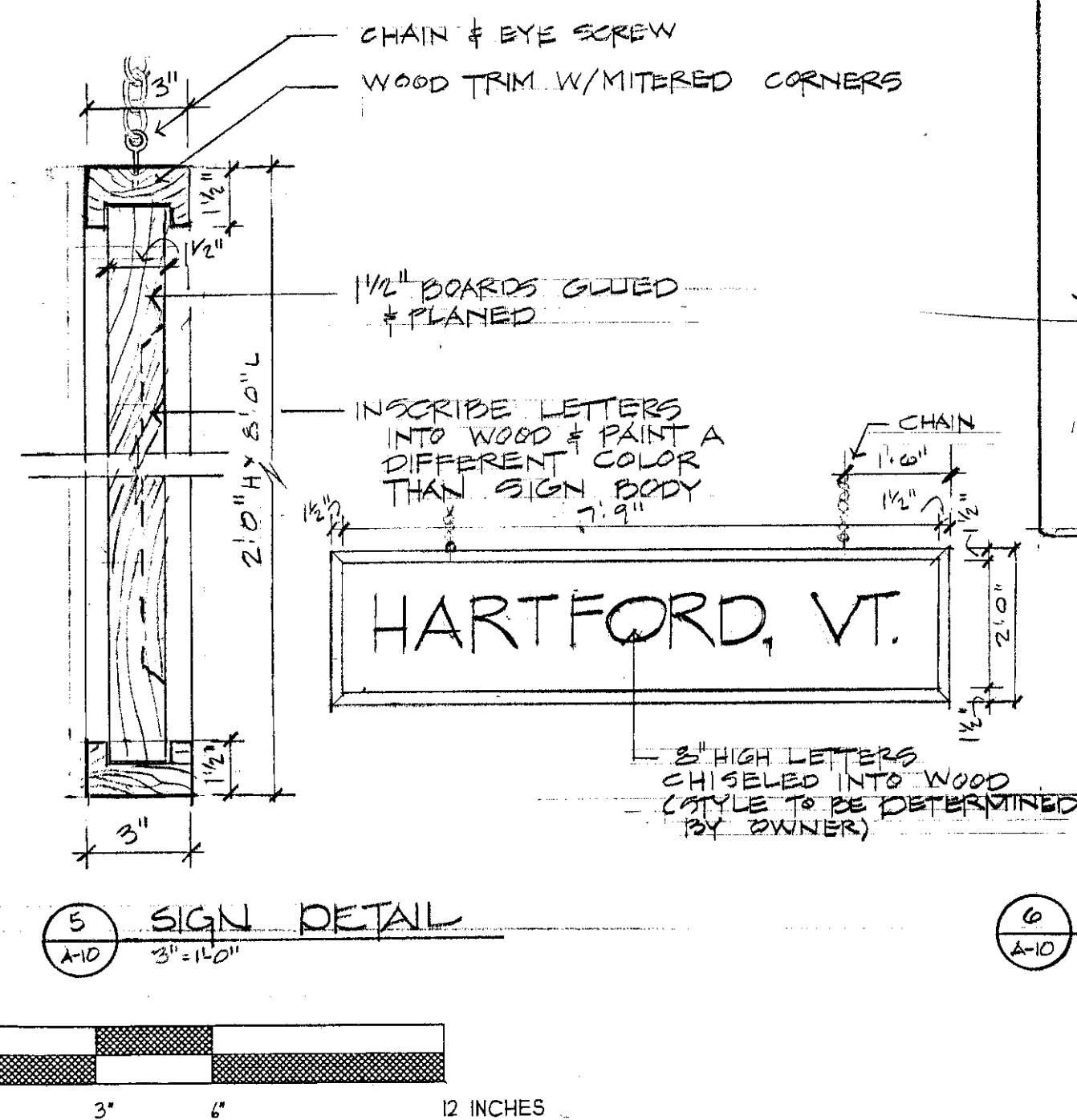
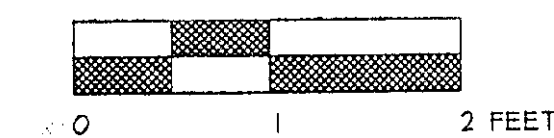
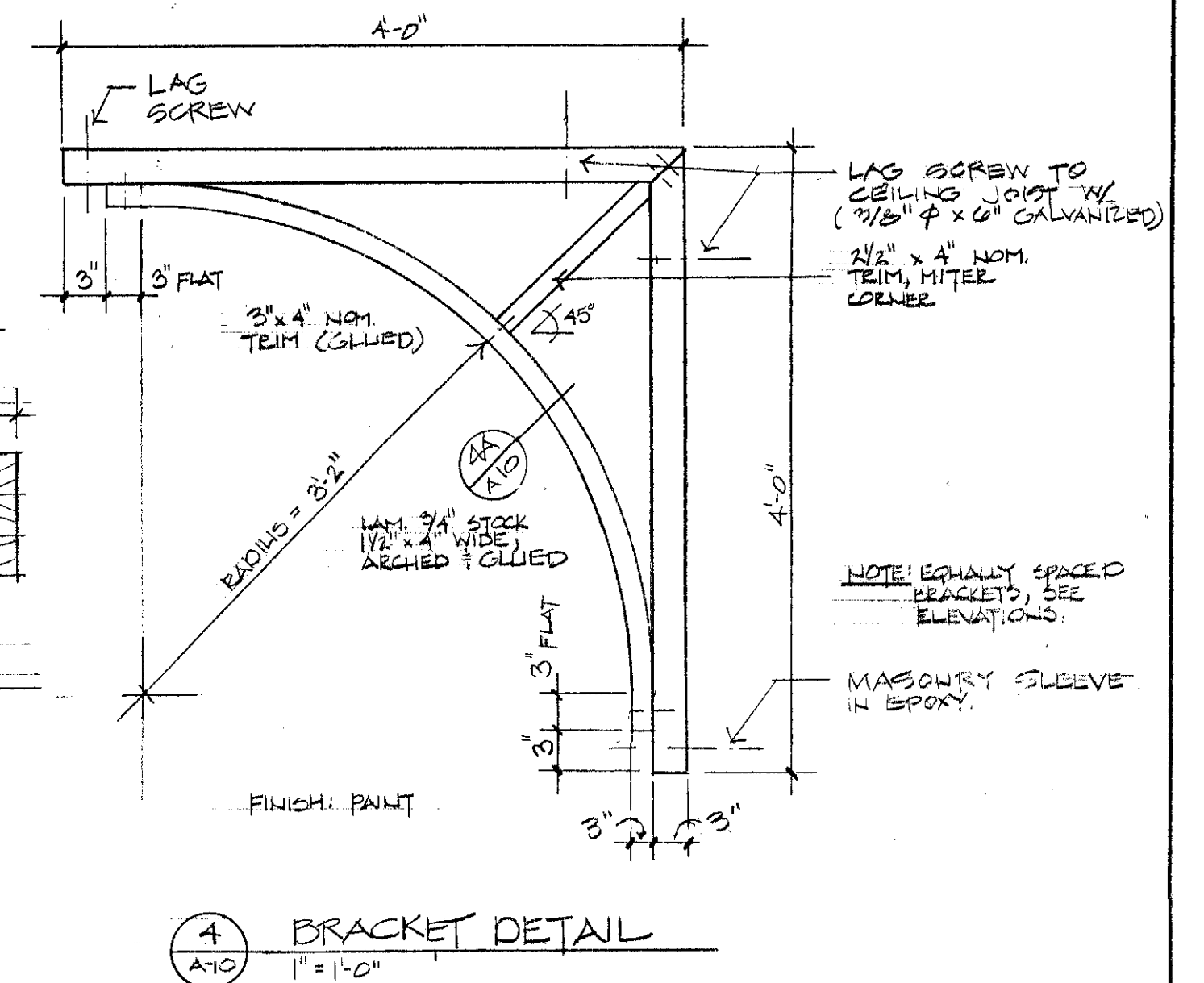
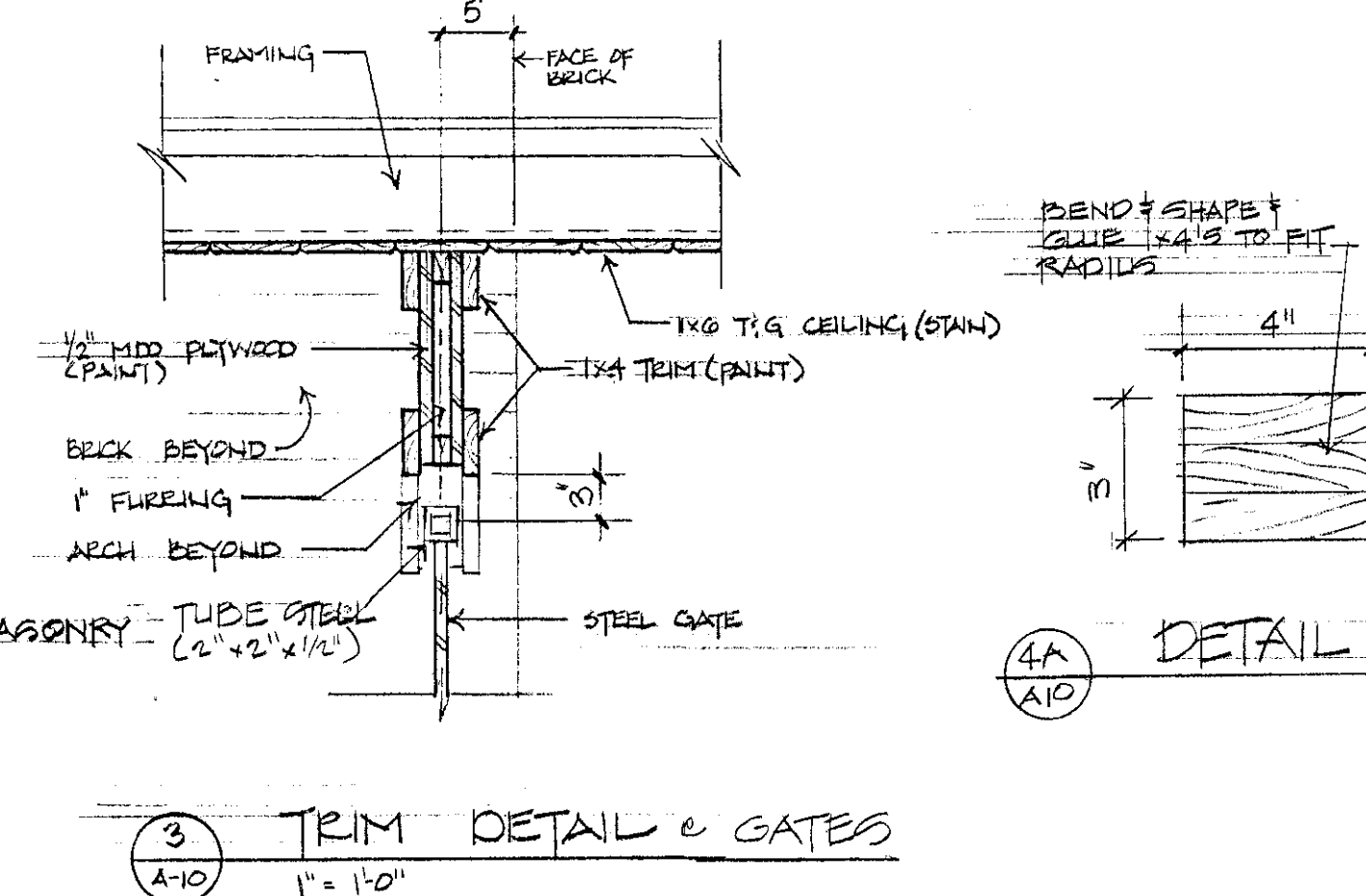
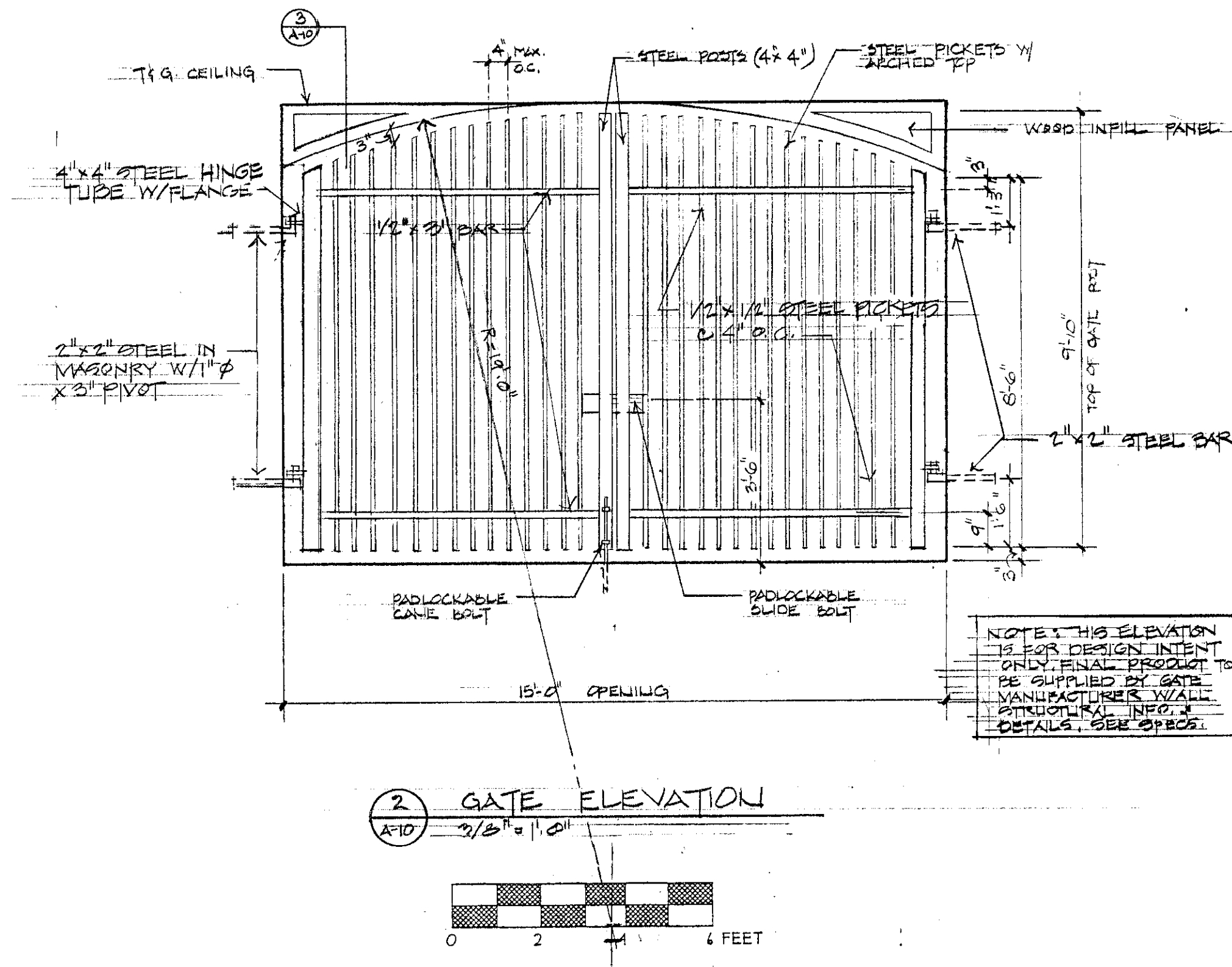
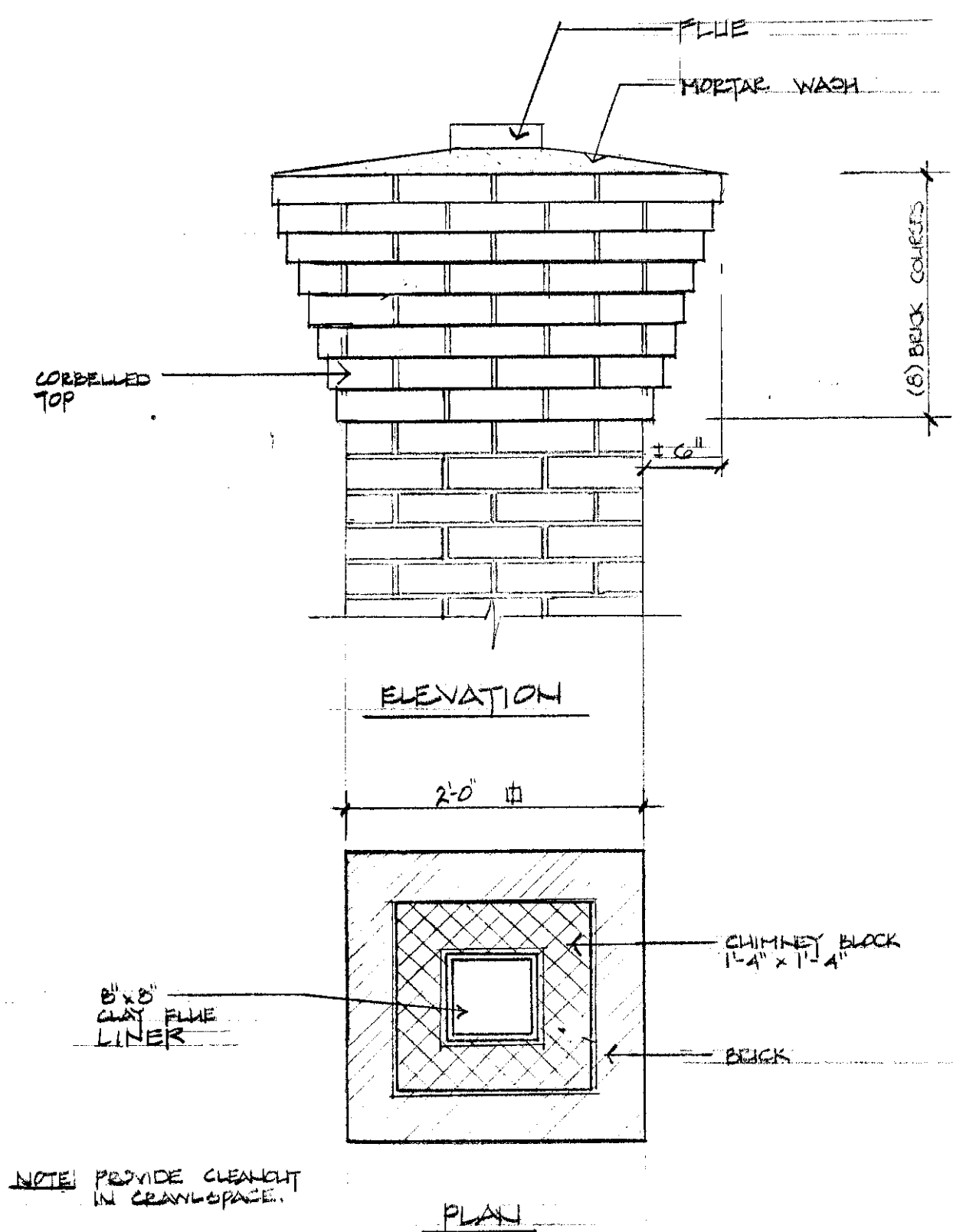
DUBOIS & KING
• Engineering • Planning
• Development • Management
Rutland, Vermont
05701

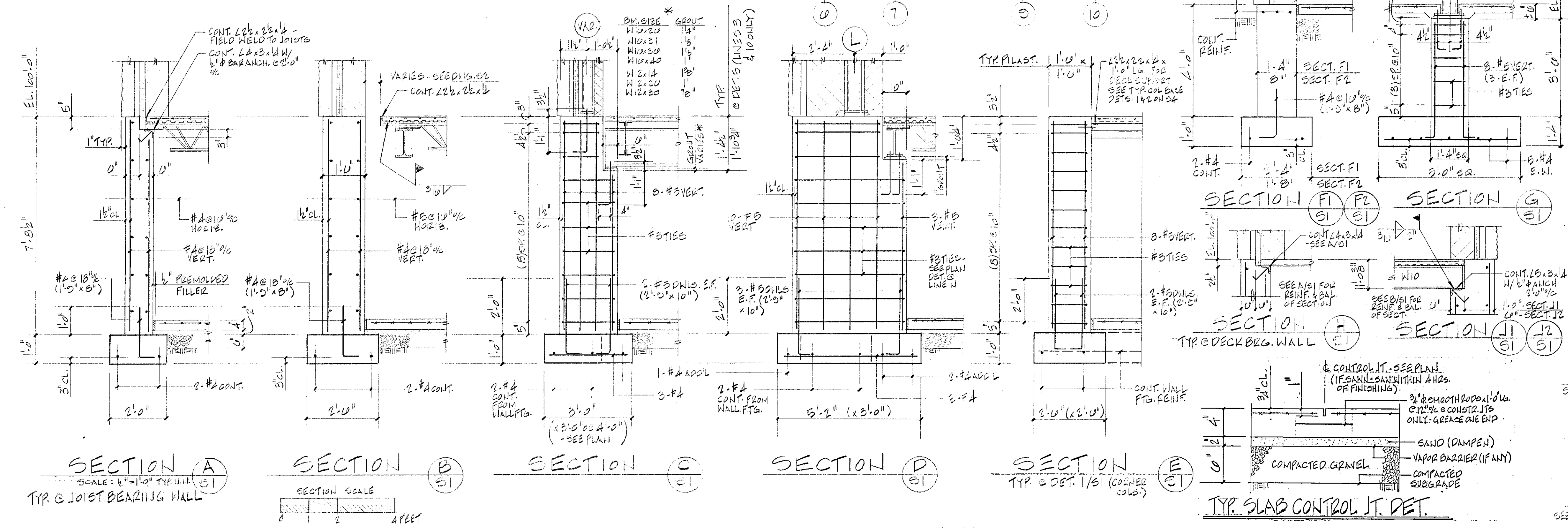
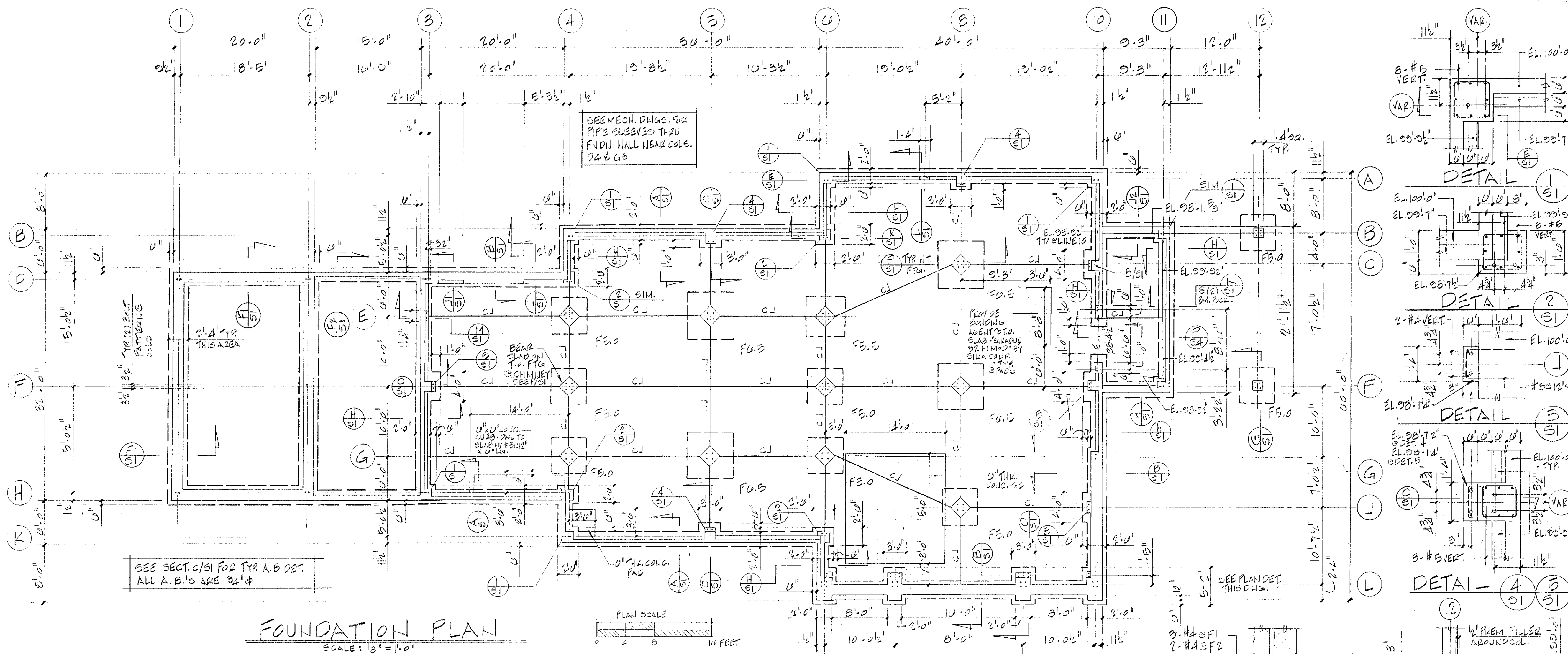
Southbound I-91
Hartford
Travel and Information Center
Hartford, Vermont

Reflected Ceiling Plan
Details

03/00 CLIENT REVIEW
Date Issued For

Project: Hartford
Project Number: 9203
A9
Sheet # 9 Of 28

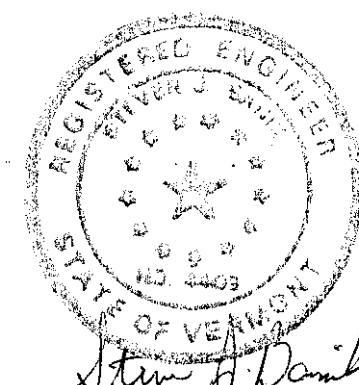




- CONCRETE NOTES**
- ALL CONCRETE DESIGN, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH ACI BUILDING CODE 318, LATEST EDITION.
 - CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. MAXIMUM AGGREGATE SIZE SHALL BE 3/4" (COARSE AGGREGATE NO. 67). FINE AGGREGATE SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION C33.
 - CEMENT FOR CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF TYPE I PORTLAND CEMENT IN ACCORDANCE WITH ASTM SPECIFICATION C-150.
 - MIX PROPORTIONING:
MAXIMUM WATER/CEMENT RATIO = 0.45
MINIMUM CEMENT CONTENT = 540 PCY
MINIMUM SLUMP = 2"
MAXIMUM SLUMP = 4"
AIR ENTRAINMENT = 6% (=/- 2%)
 - CONCRETE SHALL BE PLACED IN HORIZONTAL LAYERS OF 18" TO 24" AS NEAR AS POSSIBLE TO ITS FINAL POSITION. EACH HORIZONTAL LAYER SHALL BE CONSOLIDATED BY THE USE OF APPROVED VIBRATORY EQUIPMENT. THE USE OF VIBRATORS TO MOVE CONCRETE HORIZONTALLY IS PROHIBITED.
 - REINFORCING BARS SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM SPECIFICATION 615, GRADE 60. THE PLACEMENT OF REINFORCING SHALL BE IN ACCORDANCE WITH ACI 318.
 - WELDED WIRE FABRIC SHALL CONFORM TO ASTM SPECIFICATION 185, LATEST EDITION. SHEETS SHALL LAP ONE FULL MESH AT SIDES AND ENDS AND SHALL BE WIRED TOGETHER.
 - ALL SPLICES NOT SHOWN ON THE DRAWINGS SHALL BE INSTALLED AS CLASS B SPLICES IN ACCORDANCE WITH ACI 318.
 - CONCRETE FORMS SHALL BE EXTERIOR GRADE PLYWOOD OR METAL PRODUCING SMOOTH SURFACES WHERE APPEARANCE IS ESSENTIAL.
 - ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4" CHAMFER.
 - PLACE STRUCTURAL BACKFILL IN 9" LIFTS AND COMPACT TO A MINIMUM OF 95% MAXIMUM DRY DENSITY OBTAINABLE PER ASTM SPECIFICATION D-1557.
 - ALL ANCHOR BOLTS SHALL BE SUPPLIED WITH HIGH STRENGTH WASHERS AND HEAVY HEX NUTS AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A307.
 - FOUNDATIONS HAVE BEEN DESIGNED BASED ON AN ALLOWABLE NET BEARING PRESSURE OF 2000 PSF.
 - ALL TIE-IN DIMENSIONS TO EXISTING STRUCTURES SHALL BE FIELD VERIFIED PRIOR TO THE BEGINNING OF CONSTRUCTION.
 - THE CONTRACTOR SHALL PROVIDE FOR THE COMPRESSIVE STRENGTH TESTING OF THE CONCRETE. TWO TEST CYLINDERS FOR EVERY 100 CUBIC YARDS OF CONCRETE PLACED DAILY SHALL BE TESTED AT 7 AND 28 DAYS. CONCRETE FAILING TO MEET THE SPECIFIED STRENGTH SHALL BE REPLACED BY THE CONTRACTOR.
 - PROVISIONS SHALL BE MADE TO MAINTAIN THE CONCRETE AT A MINIMUM TEMPERATURE OF 40°F FOR A PERIOD OF SEVEN DAYS. CONCRETE SHALL BE CURED BY A METHOD APPROVED BY THE ENGINEER AND IN ACCORDANCE WITH ACI 308, LATEST EDITION.
 - FORM SURFACES IN CONTACT WITH CONCRETE SHALL BE COATED WITH AN EFFECTIVE BOND BREAKER.
 - THE CONTRACTOR SHALL SUBMIT THREE SETS OF SHOP DRAWINGS OF THE REINFORCING STEEL FOR APPROVAL PRIOR TO FABRICATION.

N.B.F.
Nimtze • Berryhill • Pigiel
ARCHITECTS P.C.
24 1/2 Center Street Rutland, Vermont 05701

Steven J. Banik, P.E.
STRUCTURAL ENGINEER
Cuttingsville, Vermont 05738



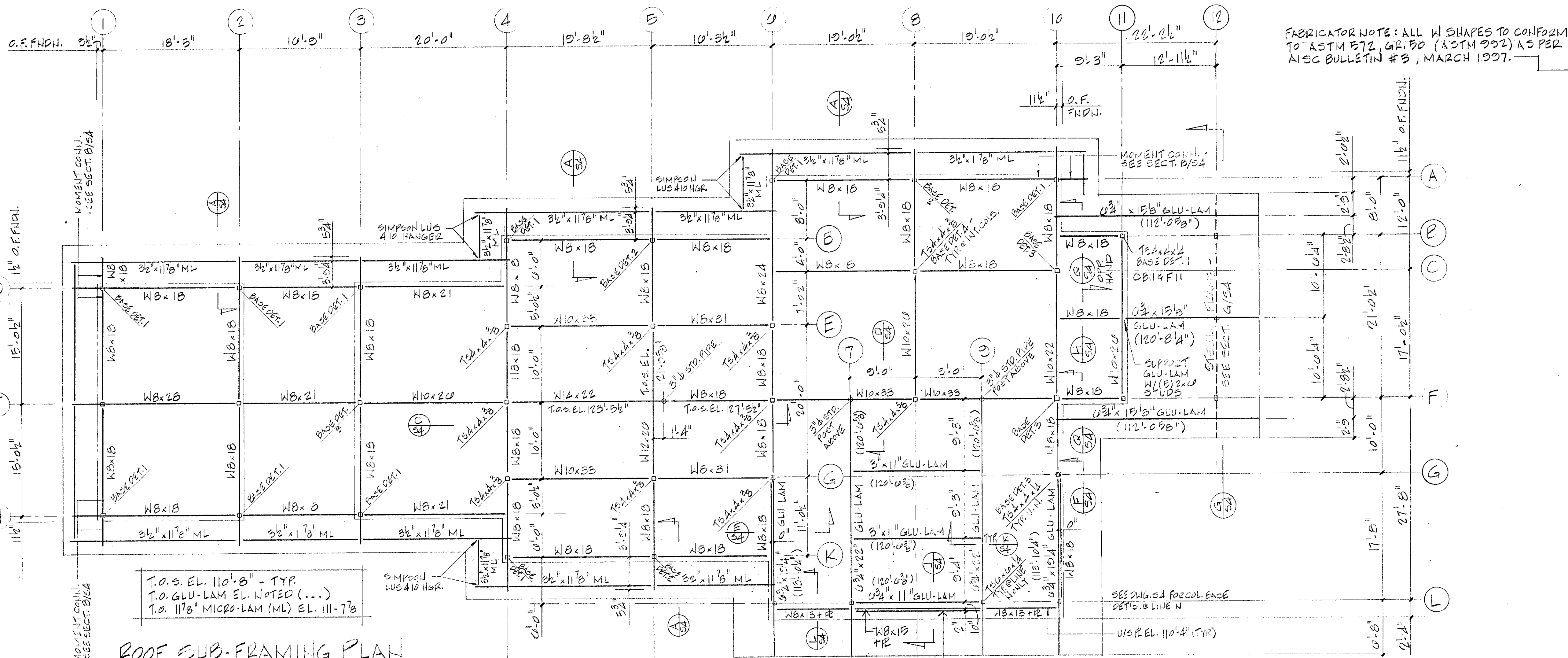
DuBois & King
Mechanical and Electrical Consulting Engineers
Rutland, Vermont 05701

SOUTHBOUND, I-91
HARTFORD
TRAVEL AND INFORMATION CENTER
HARTFORD, VERMONT

FOUNDATION PLAN
& DETAILS

10/6/95 10/31/00	OWNER REVIEW CLIENT REVIEW
DATE	ISSUED FOR

S1



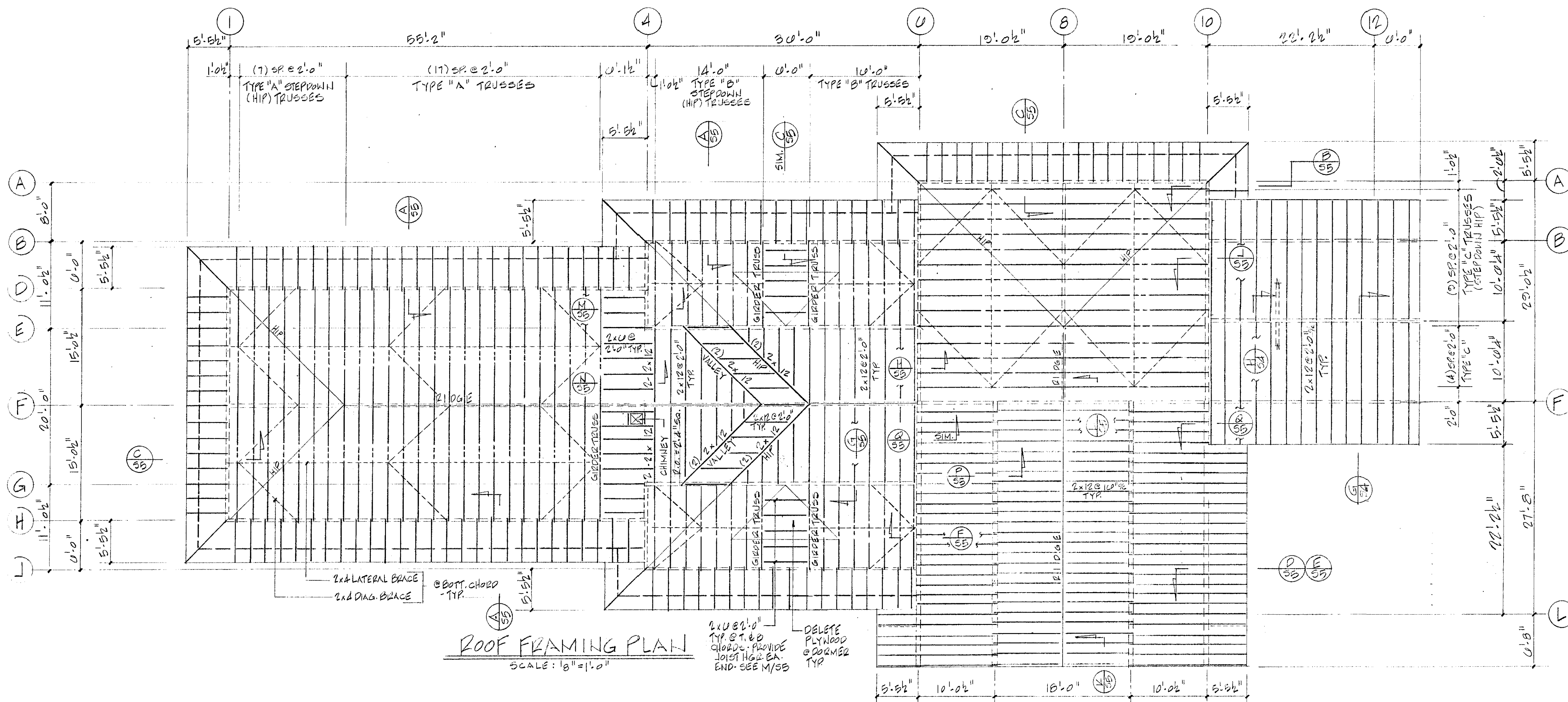
ROOF SUB-FRAMING PLAN
SCALE: 3/8" = 1'-0"



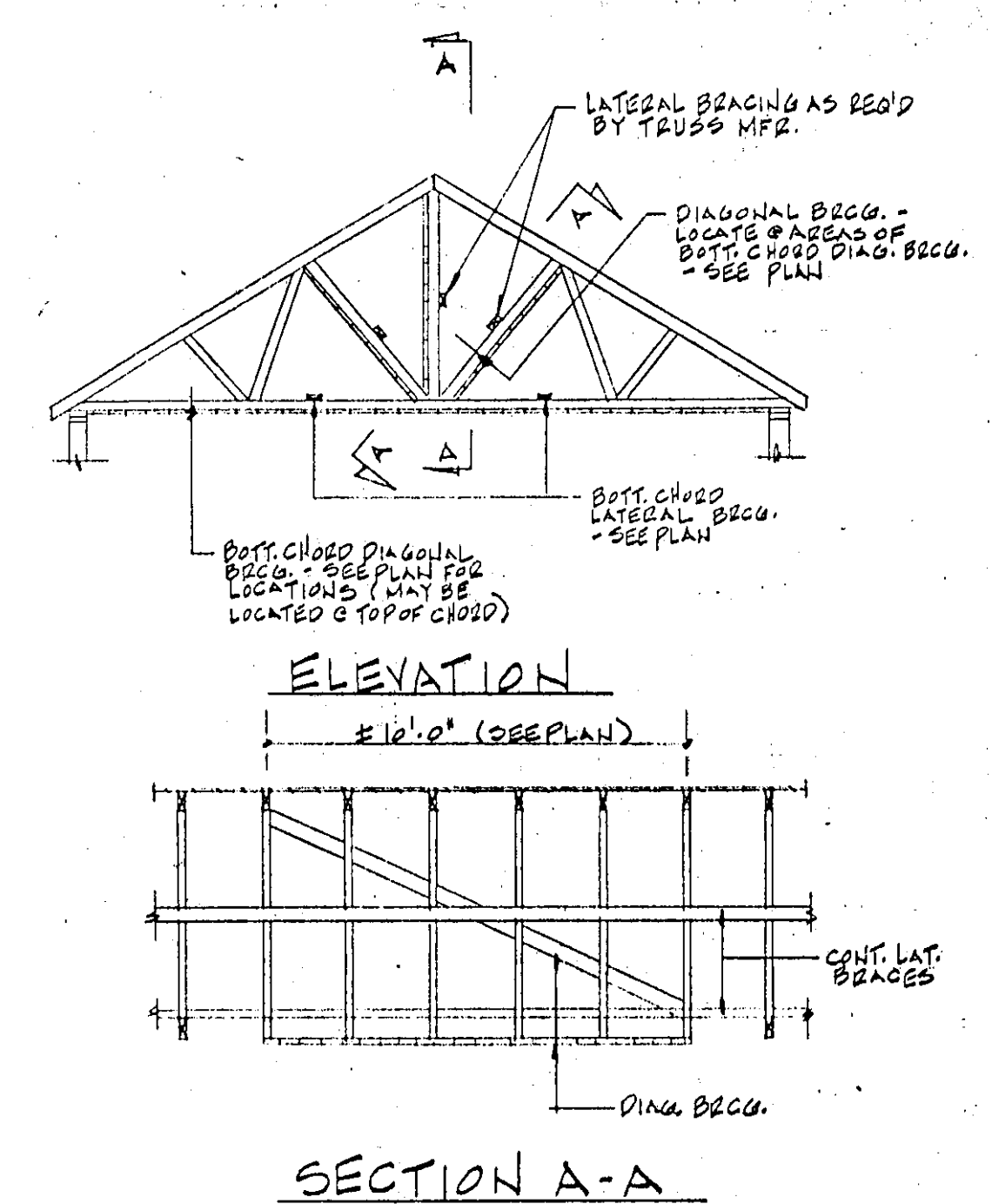
DESIGN LOAD TABLE		
ROOF	MAIN FLOOR	ATTIC FLOOR
GROUND SNOW = 50 PSF EXPOSURE FACTOR = 0.8 IMPORTANCE FACTOR = 1.0 FLAT ROOF SNOW = 40 PSF SLOPE ROOFING = 10 50% PLTNG. = 2 TREES = 5 CELLS/MISC. = 5 PSF TOTAL = 62 PSF VALLEY SETS ADD 5 PSF	LIVE LOAD = 100 PSF 2" SLAB ON DECK = 30 PSF JOISTS + ACCESS. = 3 PSF MISC. MECH. = 5 PSF FLOORING = 12 PSF TOTAL = 150 PSF MASONRY PARTITIONS 8" CMU = 40 PSF 0" CMU = 30 PSF (PER VERTICAL FT.)	LIVE LOAD = 50 PSF 3" PLTNG. = 3 TJI JOISTS = 4 GWB CELLS = 3 TOTAL = 60 PSF

ATTIC FLOOR FRAMING PLAN
SCALE: 3/8" = 1'-0"

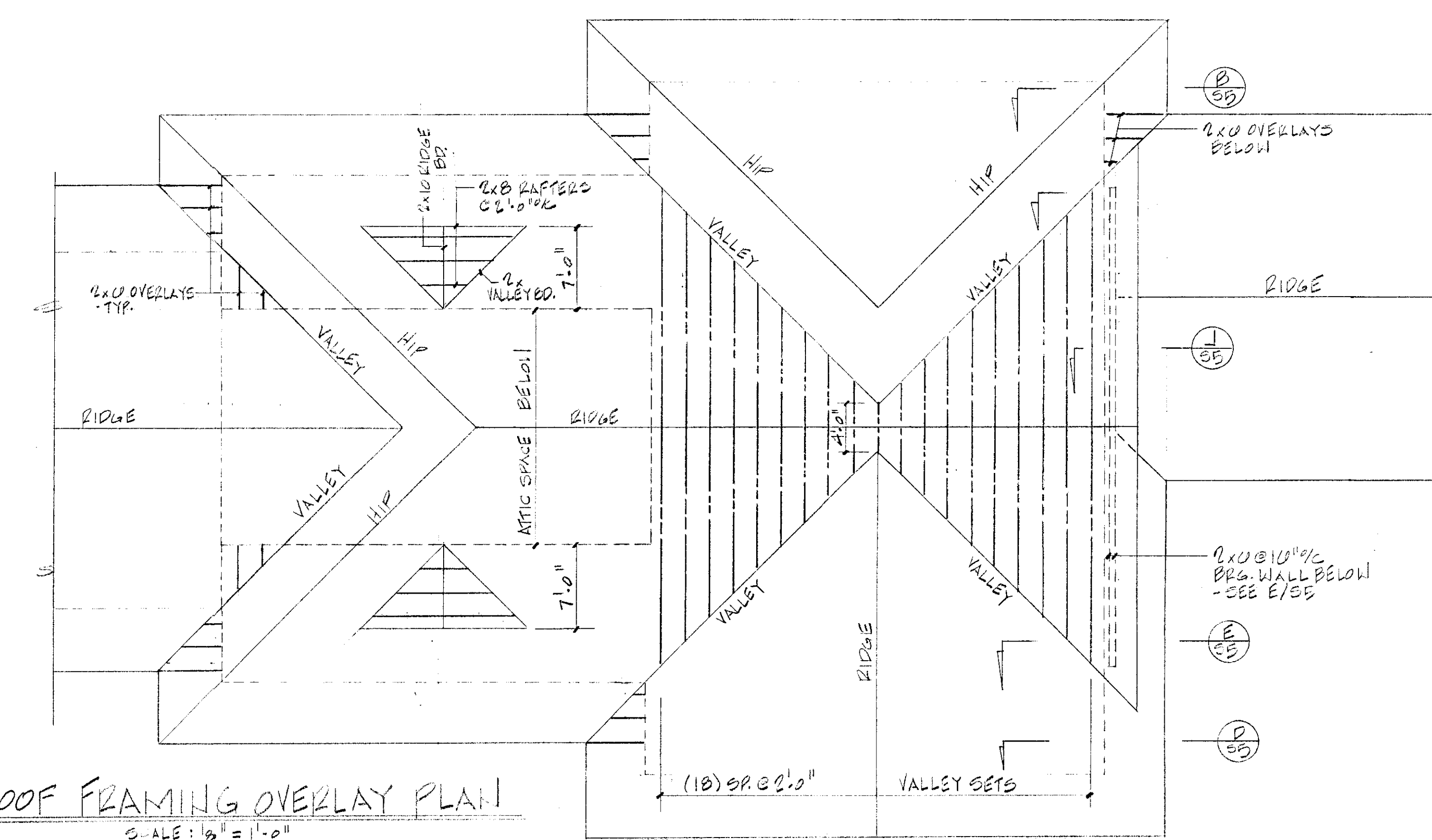
N.B.F. Nimtz • Berryhill • Figiel ARCHITECTS P.C. 24 1/2 Center Street Rutland, Vermont 05701	Steven J. Banik, P.E. STRUCTURAL ENGINEER Cuttingsville, Vermont 05738		DuBois & King Mechanical and Electrical Consulting Engineers Rutland, Vermont 05701	SOUTHBOUND I-91 HARTFORD TRAVEL AND INFORMATION CENTER HARTFORD, VERMONT	ROOF SUB-FRAMING, MAIN & ATTIC FLOOR FRAMING PLANS	10/6/95 10.31.00	OWNER REVIEW CLIENT REVIEW	S2 12 of 28
						DATE	ISSUED FOR	



ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



TYPICAL TRUSS BRACING DETAILS
NO SCALE



ROOF FRAMING OVERLAY PLAN
SCALE: 1/8" = 1'-0"

LUMBER NOTES

1. ALL STRESS GRADE LUMBER SHALL COMPLY WITH THE NATIONAL DESIGN SPECIFICATION STANDARDS FOR WOOD CONSTRUCTION OF THE NATIONAL FOREST PRODUCTS ASSOCIATION.
2. ALL LUMBER SHALL BE NO. 2 SPRUCE/PINE/FIR OR BETTER. EACH PIECE OF LUMBER SHALL BE GRADE STAMPED BY AN APPROVED GRADING RULES AGENCY.
3. MICRO-LAM LUMBER SHALL BE AS MANUFACTURED BY THE TRUS JOIST CORP., BOISE, IDAHO.
4. NO STRUCTURAL LUMBER MEMBER SHALL BE DRILLED OR NOTCHED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OR ARCHITECT.
5. NAILING SHALL BE AS PER THE RECOMMENDED FASTENING SCHEDULE OF APPENDIX C OF THE BOCA BUILDING CODE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
6. FRAMING ANCHORS SHALL BE AS NOTED ON THE DRAWINGS AND SHALL BE AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, INC. OR AN EQUAL APPROVED BY THE STRUCTURAL ENGINEER.
7. PLYWOOD SHALL BE C-D EXTERIOR GRADE. PLYWOOD SHALL BE LAIN WITH THE FACE GRAIN PERPENDICULAR TO THE SUPPORTS.
8. CONTRACTOR SHALL PROVIDE SIMPSON PSC PLYWOOD SHEATHING CLIPS AT MID-SPAN OF ALL UNSUPPORTED EDGES OF PLYWOOD ROOF SHEATHING.

PREFABRICATED WOOD TRUSS NOTES

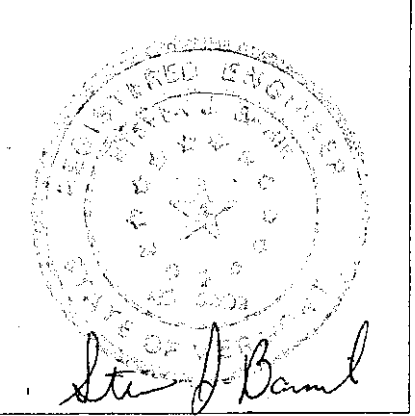
1. TRUSSES SHALL COMPLY WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION AND THE DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES BY THE TRUSS PLATE INSTITUTE.
2. ALL LUMBER SHALL BE GRADE STAMPED BY AN APPROVED GRADING RULES AGENCY
3. ALL CONNECTOR PLATES SHALL BE A MINIMUM THICKNESS OF 0.036 INCHES AND SHALL BE MANUFACTURED FROM STEEL MEETING THE REQUIREMENTS OF ASTM A446 GRADE A AND SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A523, COATING DESIGNATION G60.
4. ALL TRUSSES SHALL BE SECURELY BRACED DURING ERECTION AND AFTER PERMANENT INSTALLATION IN ACCORDANCE WITH "BRACING WOOD TRUSSES, COMMENTARY AND RECOMMENDATIONS (BWT-76)" BY THE TRUSS PLATE INSTITUTE. ADDITIONAL PERMANENT BRACING SHALL BE INSTALLED AS INDICATED ON THE PLANS AND THE TRUSS MANUFACTURER'S SHOP DRAWINGS.
5. TRUSSES SHALL BE FABRICATED IN ACCORDANCE WITH "QUALITY CONTROL MANUAL QCM-77" OF THE TRUSS PLATE INSTITUTE.
6. TRUSSES SHALL BE DESIGNED FOR A GROUND SNOW LOAD OF 50 PSF.
7. CONTRACTOR SHALL SUBMIT FOR APPROVAL, PRIOR TO TRUSS FABRICATION, (3) SETS OF SHOP DRAWINGS STAMPED BY A CURRENTLY REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF VERMONT WHO WILL BE CONSIDERED THE RESPONSIBLE DESIGN ENGINEER OF THE TRUSSES.
8. ALL FIELD BRACING SHALL BE NAILED TO EACH TRUSS MEMBER WITH (2) 10d MINIMUM
9. DESIGN DEAD LOADS: TYPICAL = 15 PSF, BATT. CHORD = 7 PSF MIN. FLAT ROOF SNOW LOAD, P_s = 40 PSF

TRUSS SCHEDULE								
TRUSS	TYPE	LENGTH	END DEPTH	PITCH	END BRG.	INT. BRG.	ADD'L MODIFICATIONS	
							STEPPDOWN HIP	GIRDER
"A"	COMMON	30'-7 1/4"	3'-8 1/2"	8:12	5 1/2"	5 1/2"	YES	YES
"B"	MONO	11'-3 1/2"	3'-8 1/2"	8:12	5 1/2" LOW 5 1/2" HIGH	NONE	YES	YES
"C"	COMMON	30'-7 1/4"	3'-8 1/2"	8:12	5 1/2"	5 1/2"	YES	NONE

NOTES: 1. SEE PLAN FOR LOCATION OF STEPPDOWN & GIRDER TRUSSES. GIRDER TRUSSES TO BE 2-PLY MINIMUM W/ 2x4 MIN. TOP & BOTTOM CHORDS
2. SEE PLANS FOR TRUSS QUANTITIES & LOCATIONS
3. INTERIOR BRACING IS AT 2' OF TRUSS UNLESS NOTED ON THE PLANS
4. LENGTH OF TRUSS IS OUT TO OUT OF BEARINGS.

N.B.F.
Nimtz • Berryhill • Figiel
ARCHITECTS P.C.
24 1/2 Center Street Rutland, Vermont 05701

Steven J. Banik, P.E.
STRUCTURAL ENGINEER
Cuttingsville, Vermont 05738



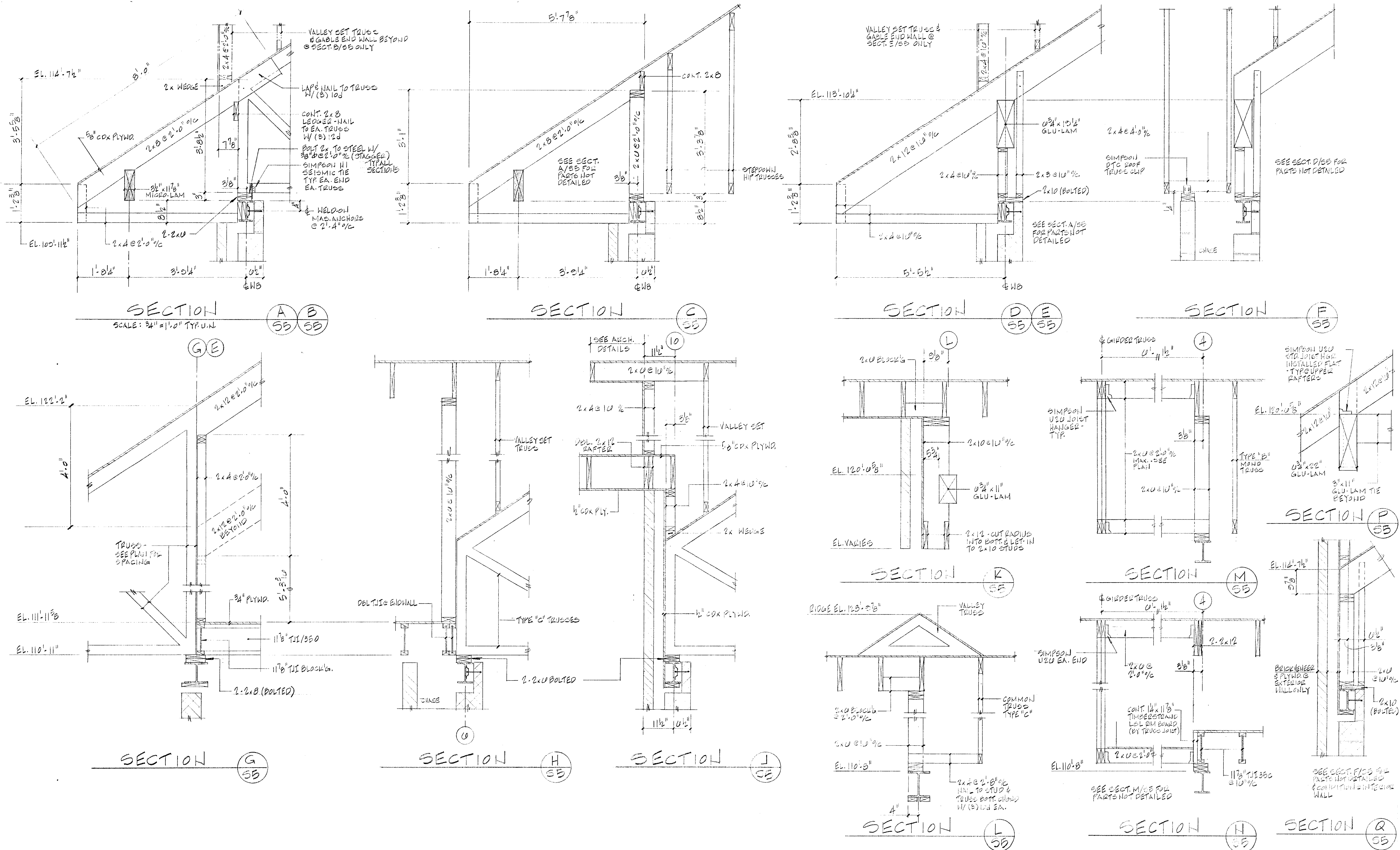
DuBois & King
Mechanical and Electrical Consulting Engineers
Rutland, Vermont 05701

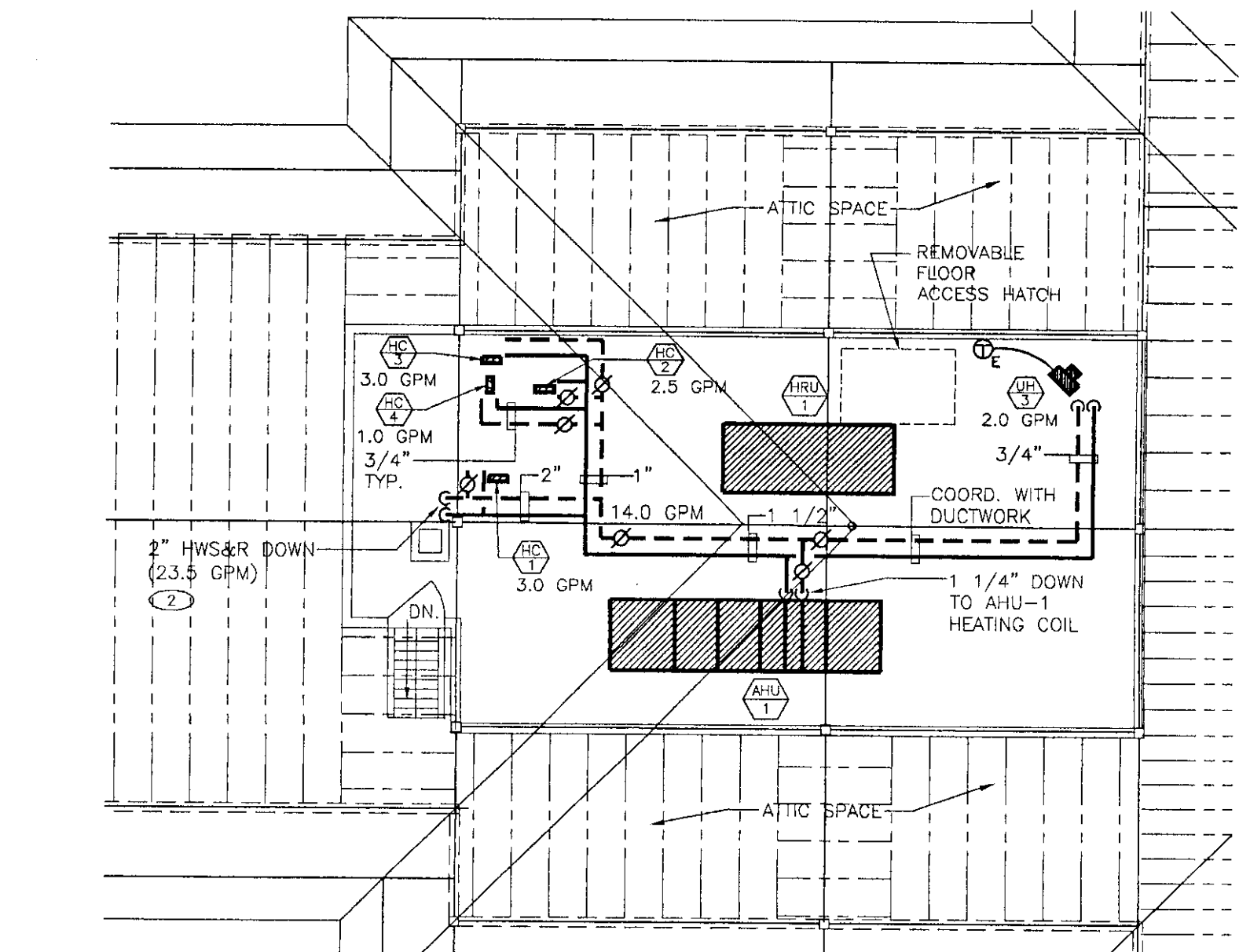
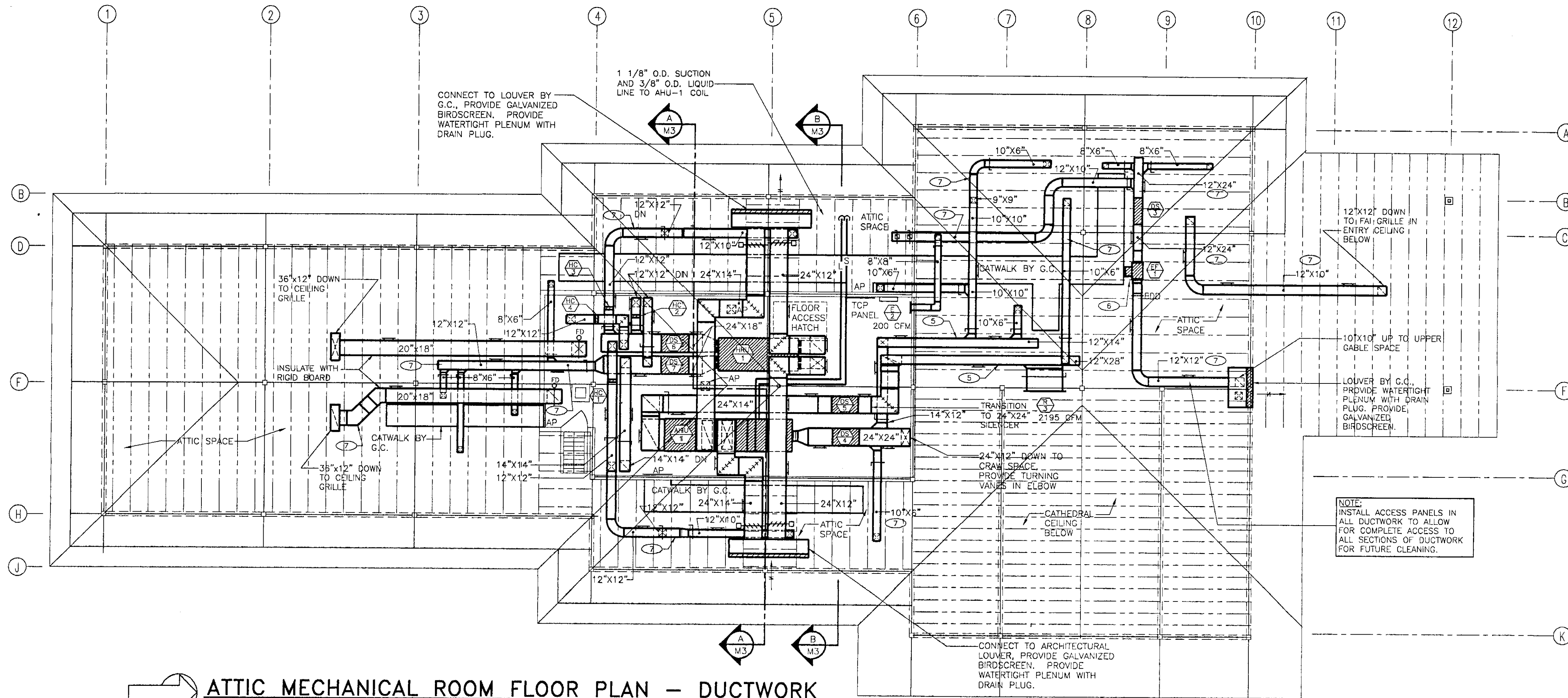
SOUTHBOUND I-91
HARTFORD
TRAVEL AND INFORMATION CENTER
HARTFORD, VERMONT
JOB NAME

ROOF FRAMING &
OVERLAY PLANS
SHEET TITLE

10/6/95
10/31/00
OWNER REVIEW
CLIENT REVIEW
DATE ISSUED FOR
13 28

S3



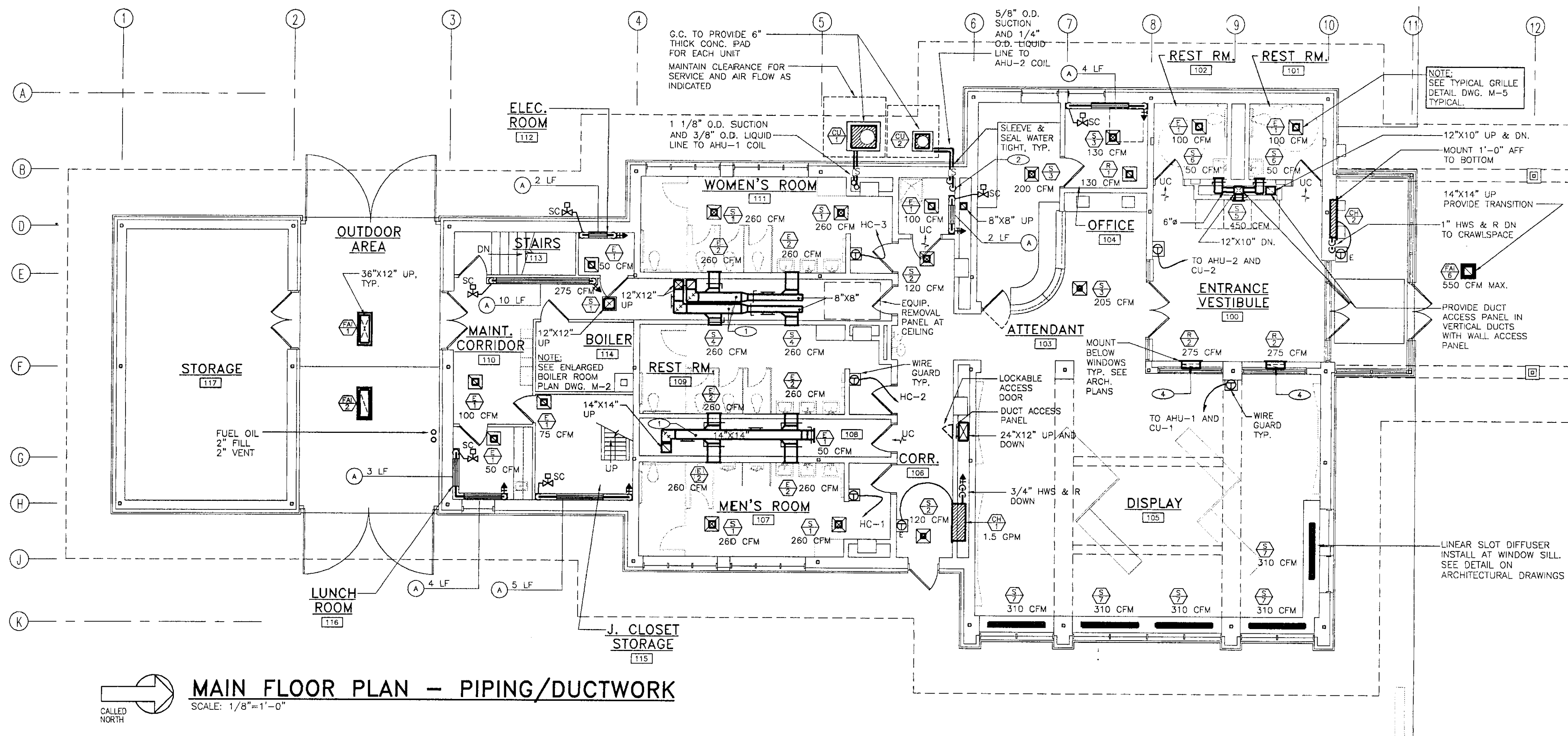


MECHANICAL LEGEND AND ABBREVIATIONS

	FLEXIBLE DUCT CONNECTION	CH	CABINET HEATER
	SUPPLY DUCT RISER	UH	UNIT HEATER
	RETURN OR EXHAUST AIR DUCT RISER	DS	DUCT SILENCER
	RETURN OR EXHAUST DUCT DROP	OA	OUTSIDE AIR
	SUPPLY DUCT DROP	SA	SUPPLY AIR
	AIR BRANCH DUCT TAKE-OFF 45°	RA	RETURN AIR
	AIR TURNING VANES IN DUCTWORK	HC	HEATING COIL
	BOTTOM ACCESS DOOR IN DUCTWORK	⊕	SPACE THERMOSTAT, E = 120VAC
	VOLUME DAMPER	EF	EXHAUST FAN
	MOTORIZED DAMPER	AHU	AIR HANDLING UNIT
	BALL VALVE	HRU	HEAT RECOVERY UNIT
	BALL VALVE DRAIN W/CAP & CHAIN	AFF	ABOVE FINISH FLOOR
	CHECK VALVE	B.D.D.	GRAVITY BACKDRAFT DAMPER
	BALANCING VALVE	—	HOT WATER SUPPLY PIPING
	ACCESS DOOR IN SIDE OF DUCTWORK	---	HOT WATER RETURN PIPING
	UC UNDERCUT DOOR	—FOS	FUEL OIL SUPPLY
		—FOR	FUEL OIL RETURN
		↑	AIR VENT
		SC	SELF-CONTAINED RADIATION VALVE

KEYED NOTES: (APPLY TO THIS DRAWING ONLY)

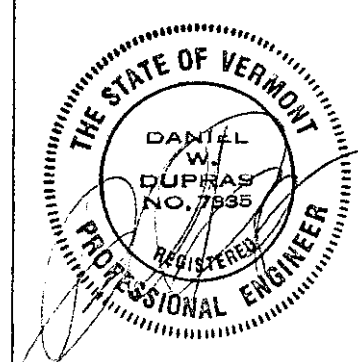
- DUCTWORK LOCATED BELOW CEILING
- SLEEVE AND FIRE SEAL PIPE PENETRATIONS
- NOT USED
- 18" x 4" DOWN TO CRAWLSPACE, TYPICAL FOR TWO, COORDINATE WITH BAR JOISTS, SEE ARCHITECTURAL DETAIL
- RUN BETWEEN ROOF TRUSSES, COORDINATE WITH FINAL TRUSS CONFIGURATION
- EF IN ATTIC SPACE HANG FROM TRUSS WITH THREADED RODS AND SPRING ISOLATORS
- RUN DUCT IN ATTIC SPACE COORDINATE WITH FRAMING



N·B·F
Nimt · Berryhill · Figiel
ARCHITECTS P.C.
24 1/2 Center Street
Rutland, Vermont
0 5 7 0 1

Steven J. Banik, P.E.
STRUCTURAL ENGINEER
Cuttingsville, Vermont
0 5 7 3 8

LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.
Rutland, Vermont
0 5 7 0 1



DuBois & King
Engineering • Planning
Development • Management
Rutland, Vermont
0 5 7 0 1

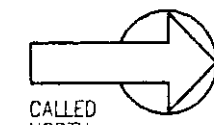
Southbound I-91
Hartford
Travel and Information Center
Hartford, Vermont

HVAC PLANS
AND DETAILS

10/31/00
Date

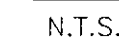
CLIENT REVIEW
Issued For

Project: Hartford
Project Number: 0029
M1
Sheet # 16 of 28



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

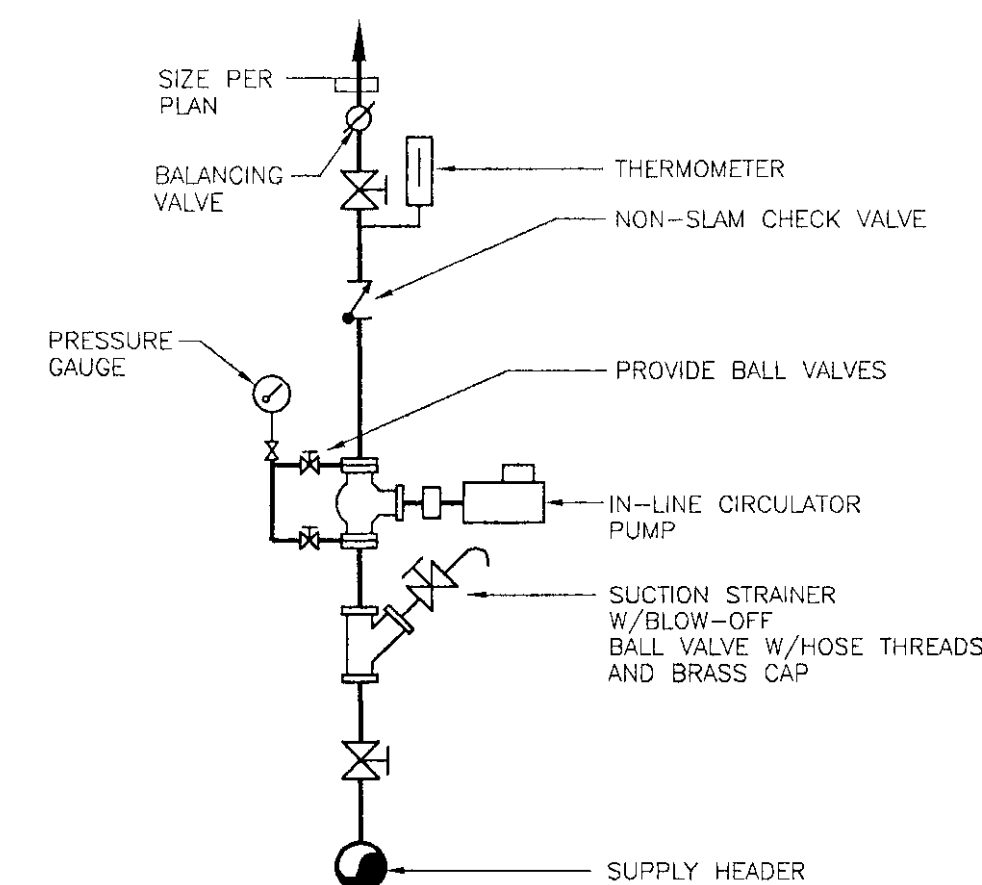
NOTE: ALL PIPE PENETRATIONS THRU BOILER ROOM SHALL BE FIRE SEALED WITH U.L. LISTED FIRE SEALANTS



NOTE: CABINET HEATER PIPING SIMILAR



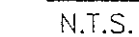
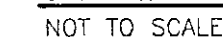
NOTE:
PROVIDE DUCT ACCESS PANELS ON BOTH SIDES OF HEATING COIL
FOR CLEANING HEATING COIL.



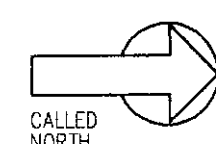
N.T.S.



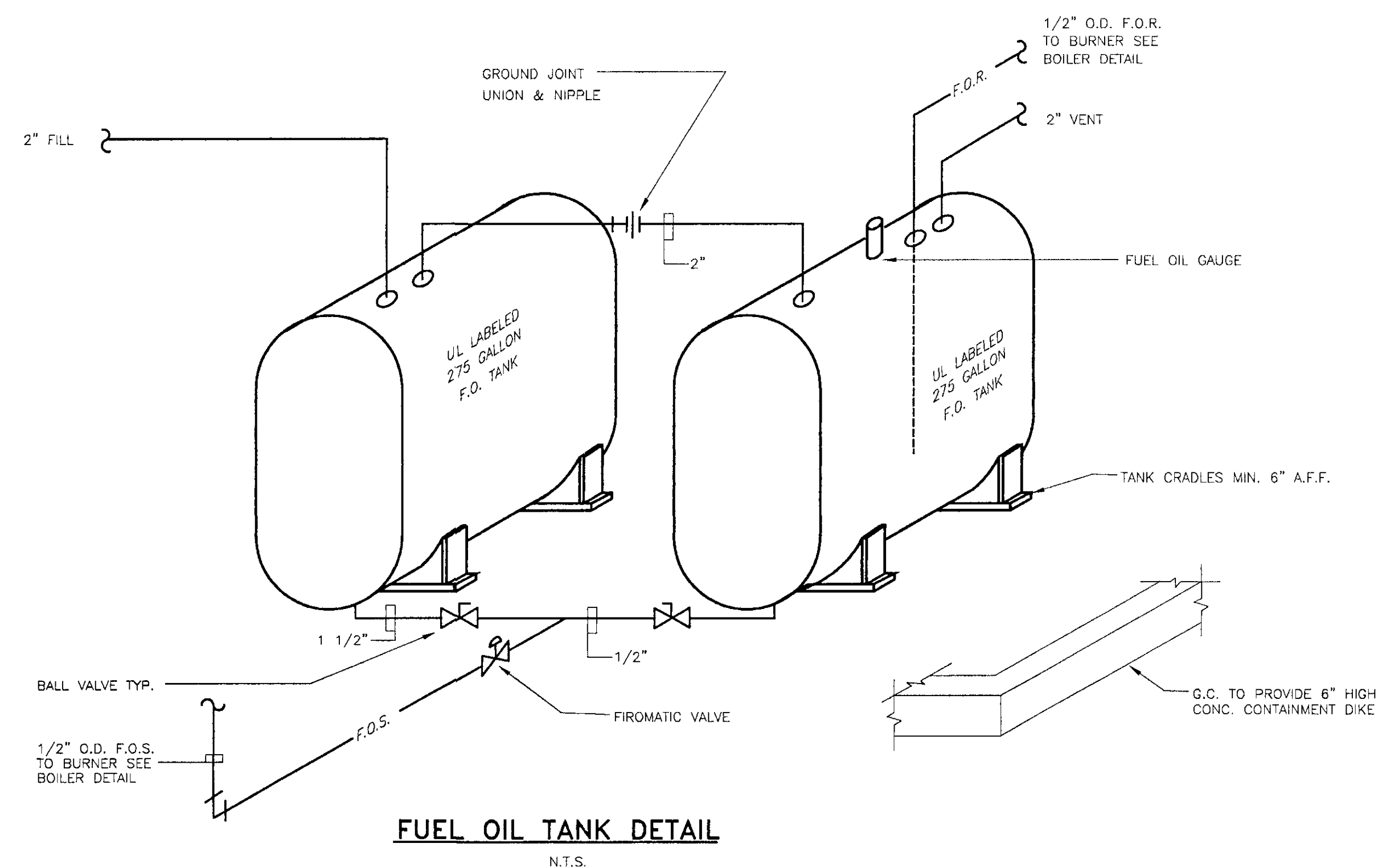
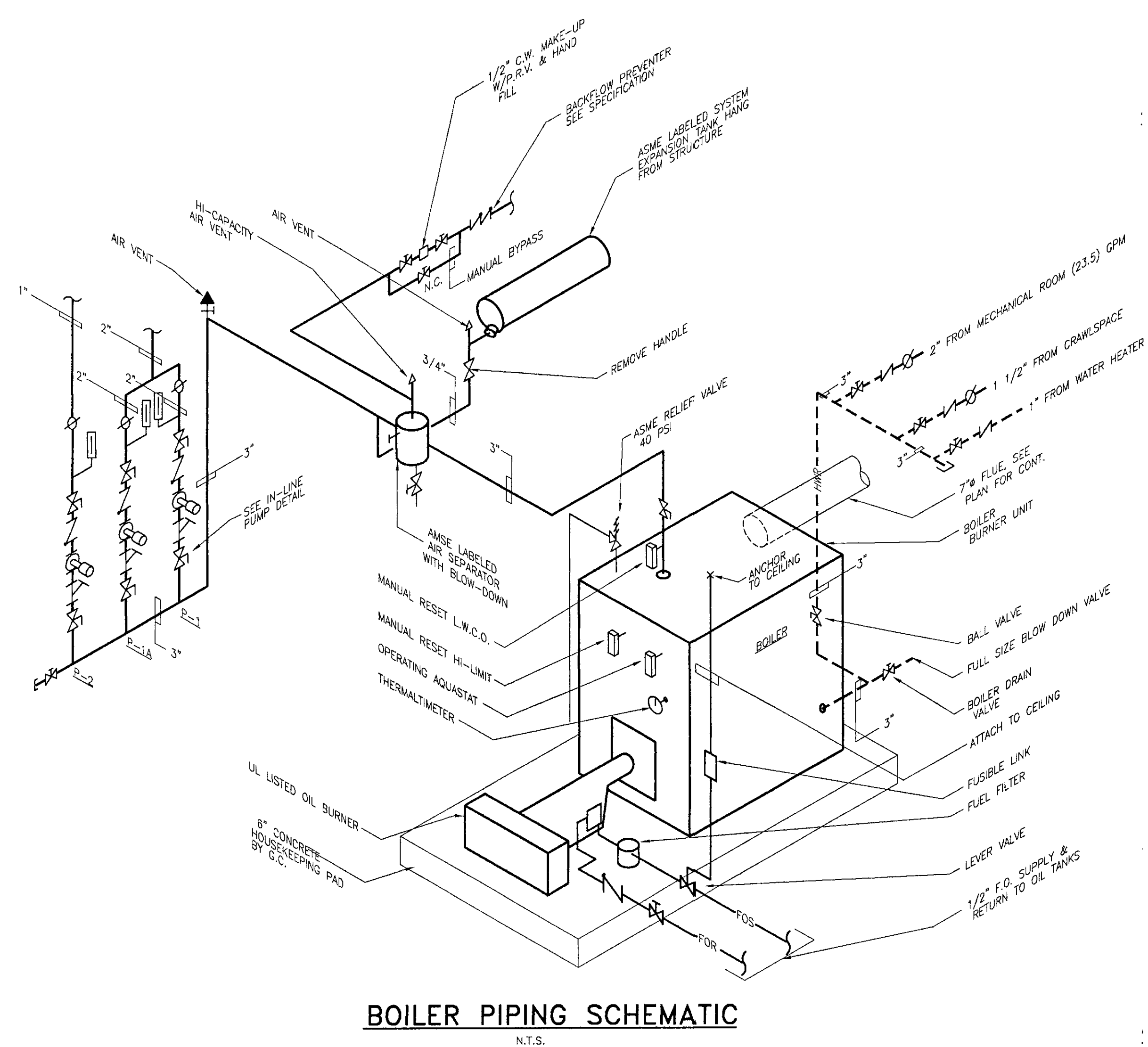
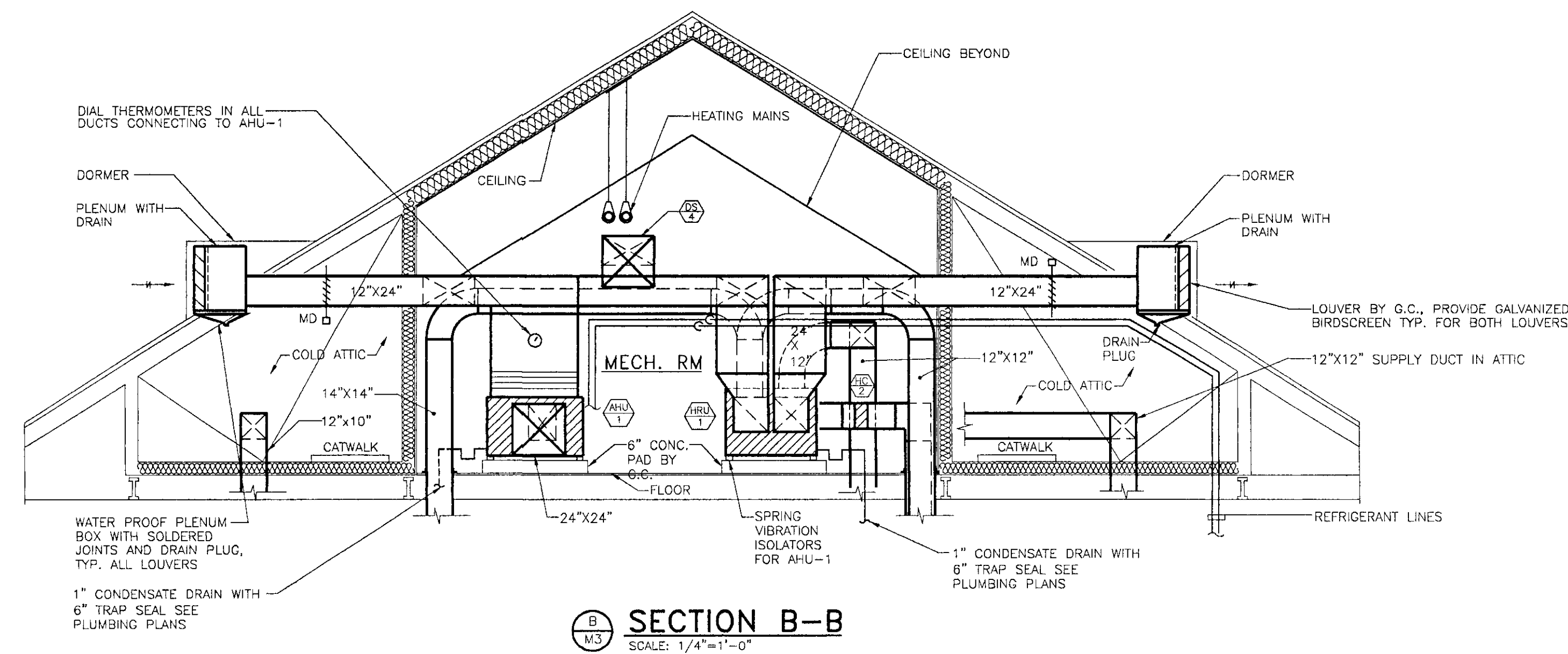
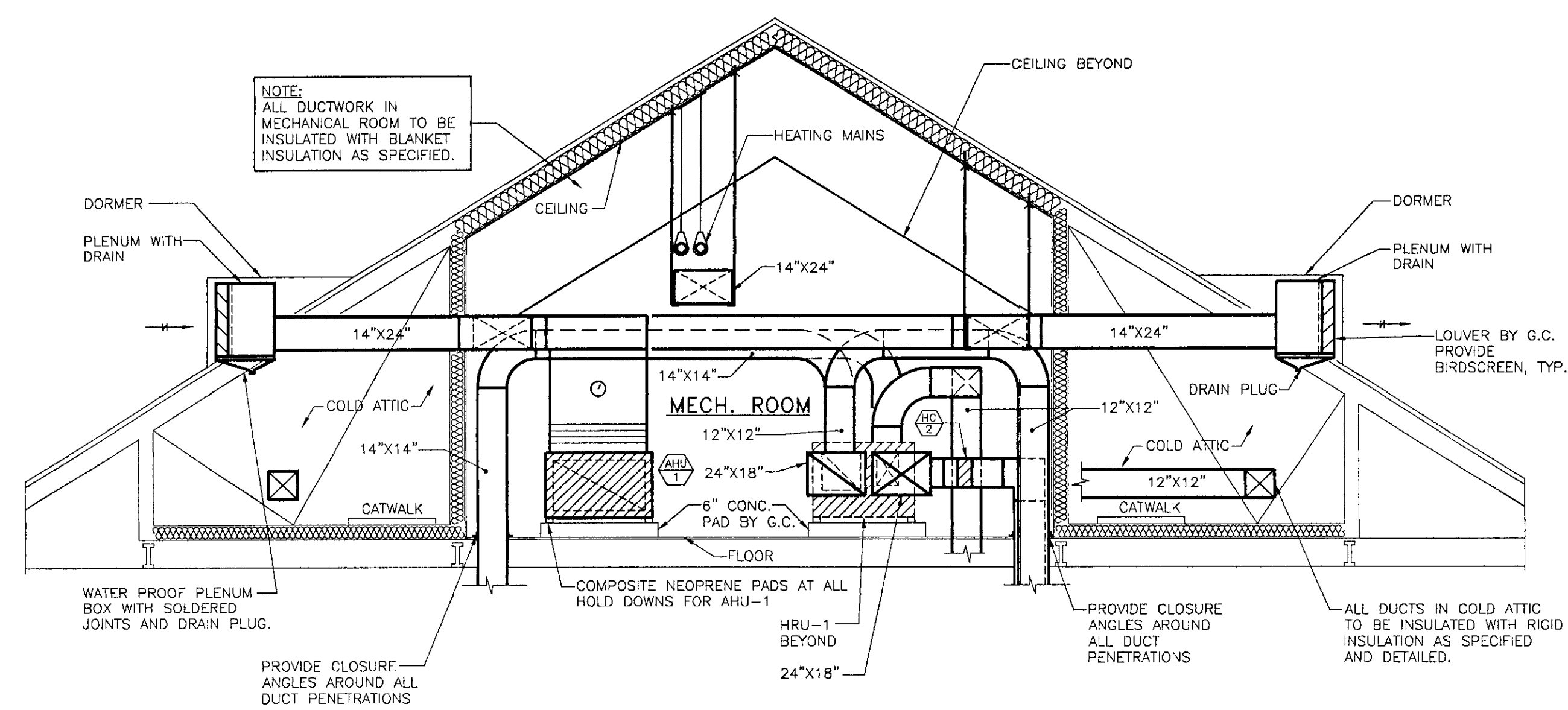
NOTE:
PROVIDE INSULATED ACCESS DOORS WITH
EXTENDED JAMBS TO ACCEPTS SPECIFICATIONS
INSULATIONS.



NOTE:
SIMILAR FOR RETURN AND EXHAUST GRILLES AND REGISTERS



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



AIR HANDLING UNIT SCHEDULE																																PLAN SYMBOL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
REF. No.	MANUFACTURER/ MODEL	AREA SERVED	SUPPLY FAN SECTION								DX COIL								HOT WATER HEATING COIL								RETURN FAN SECTION								REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
			CFM	MAX. OUTLET VEL. FPM	RPM	STATIC PRESS. IN. WG.		MOTOR				TYPE		E.A.T.		CAPACITY (MBH)		LIQ. TEMP	SUCT. TEMP.	L.A.T.		AIR TEMP. °F		MBH	FACE VEL FPM	WATER TEMP. °F		GPM	AIR PRESS. DROP IN. WG.	AIR PRESS. DROP FT. HD.	CFM	MAX. OUTLET VEL. FPM	RPM			STATIC PRESS. IN. WG.		MOTOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
						TOT.	EXT.	HP.	VOLTS	PHASE	HZ	ROWS	SIZE	DB	WB	TOTAL	SENS.			DB	WB	ENT.	LVG.			ENT.	LVG.									TOT.	EXT.	HP.	VOLTS	PHASE	HZ																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

NOTES:
1) AHU-1 SHALL BE DOUBLE WALL CONSTRUCTION, PROVIDE RETURN FAN, ECONOMIZER, FILTER MIXING BOX, DX COIL, INTERNAL FACE AND BYPASS, HOT WATER COIL, AND SUPPLY FAN SECTIONS.
2) AHU-2 SHALL BE DOUBLE WALL CONSTRUCTION, PROVIDE FILTER MIXING BOX, DX COIL, HOT WATER COIL, AND SUPPLY FAN SECTIONS.

HEAT RECOVERY UNIT SCHEDULE																												PLAN SYMBOL		
REF. No.	MANUFACTURER	MODEL	SUPPLY SIDE												EXHAUST SIDE															
			CFM	MAX. FACE VEL. FPM	RPM	STATIC PRESS. IN. WG.		MOTOR				AIR TEMP. °F (DB/WB) WINTER		AIR TEMP. °F (DB/WB) SUMMER		CFM	MAX. FACE VEL. FPM	RPM	STATIC PRESS. IN. WG.		MOTOR				AIR TEMP. °F (DB/WB) WINTER		AIR TEMP. °F (DB/WB) SUMMER			
						TOT.	EXT.	HP.	VOLTS	PHASE	HZ	ENT.	LVG.	ENT.	LVG.				TOT.	EXT.	HP.	VOLTS	PHASE	HZ	ENT.	LVG.	ENT.	LVG.		
HRU-1	DESCHAMPS	MICRO - Z 2070	1895	-	-	2.37	0.75	1 1/2	240	1	60	-20/-20	42/12	88/72	79/65	1895	-	-	2.37	0.75	1 1/2	240	1	60	70/47	10.0°F DB	75/66	84.0°F DB		

NOTE:
1) PROVIDE SPRING VIBRATION ISOLATORS FOR BASE MOUNTING, ONE SPARE SET OF BELTS AND FILTERS FOR UNIT. PROVIDE DEFROST AND BYPASS CONTROLS AS SPECIFIED.

AIR COOLED CONDENSING UNIT SCHEDULE																				PLAN SYMBOL		
REF. No.	MANUFACTURER/ MODEL	NOMINAL CAPACITY	AMBIENT TEMP. °F	SUCTION TEMP °F	REFRIG. TYPE	COMPRESSOR								CONDENSER FAN								REMARKS
						NO.	RLA	LRA	ELECTRICAL				NO.	RLA	FLA RA	ELECTRICAL						
									HP.	VOLTS	PHASE	HZ				HP.	VOLTS	PHASE	HZ			
CU-1	TRANE/TTB060C100B	5 TON	95°	45°	R-22	1	29.1	141	--	240	1	60	1	--	1.90	1/4	240	1	60	SEE NOTE		
CU-2	TRANE/TTB012C100A	1 TON	95°	45°	R-22	1	7.0	45	--	240	1	60	1	--	0.83	1/8	240	1	60	SEE NOTE		

NOTE: PROVIDE INDOOR FAN RELAY KIT, EVAPORATOR DEFROST CONTROL, THERMAL EXPANSION VALVE, OUTDOOR THERMOSTAT, ISOLATORS, CRANKCASE HEATERS, LOW AMBIENT CONTROLS, INCLUDING HOT GAS BYPASS AND FAN SPEED CONTROLS

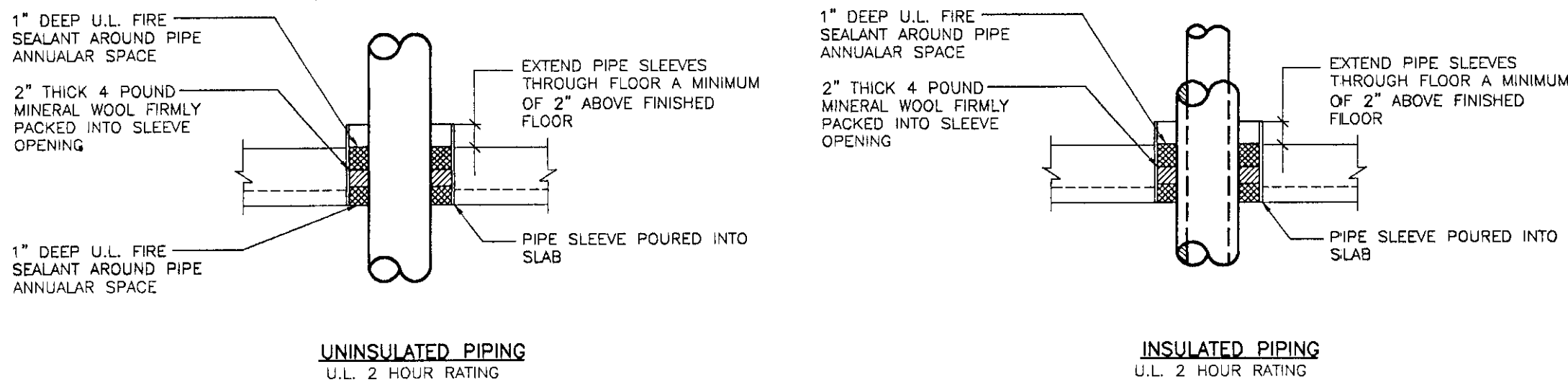
EXHAUST FAN SCHEDULE											PLAN SYMBOL		
REF NO.	CFM	MAX. OUT-VEL. FPM	RPM	TOTAL STATIC PRESS. IN. WG.	MOTOR				DRIVE	MANUFACTURE MODEL		REMARKS	
					HP	VOLTS	Ø	H _z					
EF-1	700	228	1275	0.50	1/4	115	1	60	BELT	GREENHECK	BSQ-80-4	INSULATED MOTOR COVER/ INSULATED FAN CASING	

PUMP SCHEDULE												PLAN SYMBOL	P-#
REF. No.	SYSTEM SERVED	PUMP LOCATION	GPM	PRESS. DROP FT. HD.	OPERATING OR STANDBY	MOTOR				MANUFACT.	MODEL	REMARKS	
						HP	RPM	VOLTS	PHASE				
P-1	HEATING SYS.	BOILER ROOM	39.0	20.0	PRIMARY	1	1750	240	1	BELL & GOSSETT	60-2X2X5 1/4		
P-1A	HEATING SYS.	BOILER ROOM	39.0	20.0	STAND BY	1	1750	240	1	BELL & GOSSETT	60-2X2X5 1/4		
P-2	WATER HEATER	BOILER ROOM	5.0	14.0	-	1/4	1750	120	1	BELL & GOSSETT	60-1X1X5 1/4		

DUCT SILENCER SCHEDULE																				PLAN SYMBOL:		
REF. NO.	MANUFACTURER	MODEL NO.	SIZE IN H. x W.	LENGTH FT.	DYNAMIC INSERTION LOSS (MZ) OCTAVE BAND								SELF-POWER LEVEL (DB) OCTAVE BAND								STATIC PRESSURE	
					1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8		
					63	125	250	500	1K	2K	4K	8K	63	125	250	500	1K	2K	4K	8K	DROP (INWG)	
DS-1	I-A-C	3S	12"x12"	3'-0"	7	13	17	30	36	33	26	13	54	51	50	51	54	56	52	40	0.10"	
DS-2	I-A-C	3S	12"x12"	3'-0"	7	12	16	28	35	35	28	17	55	49	49	47	46	49	42	32	0.10"	
DS-3	I-A-C	3S	12"x24"	3'-0"	7	13	17	30	36	33	26	13	54	51	50	51	54	56	52	40	0.05"	
DS-4	I-A-C	3S	24"x24"	3'-0"	7	12	16	28	35	35	28	17	55	49	49	47	46	49	42	32	0.15"	
DS-5	I-A-C	3S	24"x24"	3'-0"	7	13	17	30	36	33	26	13	54	51	50	51	54	56	52	40	0.15"	
DS-6	I-A-C	3S	24"x18"	3'-0"	7	12	16	28	35	35	28	17	55	49	49	47	46	49	42	32	0.15"	
DS-7	I-A-C	3S	24"x18"	3'-0"	7	13	17	30	36	33	26	13	54	51	50	51	54	56	52	40	0.15"	

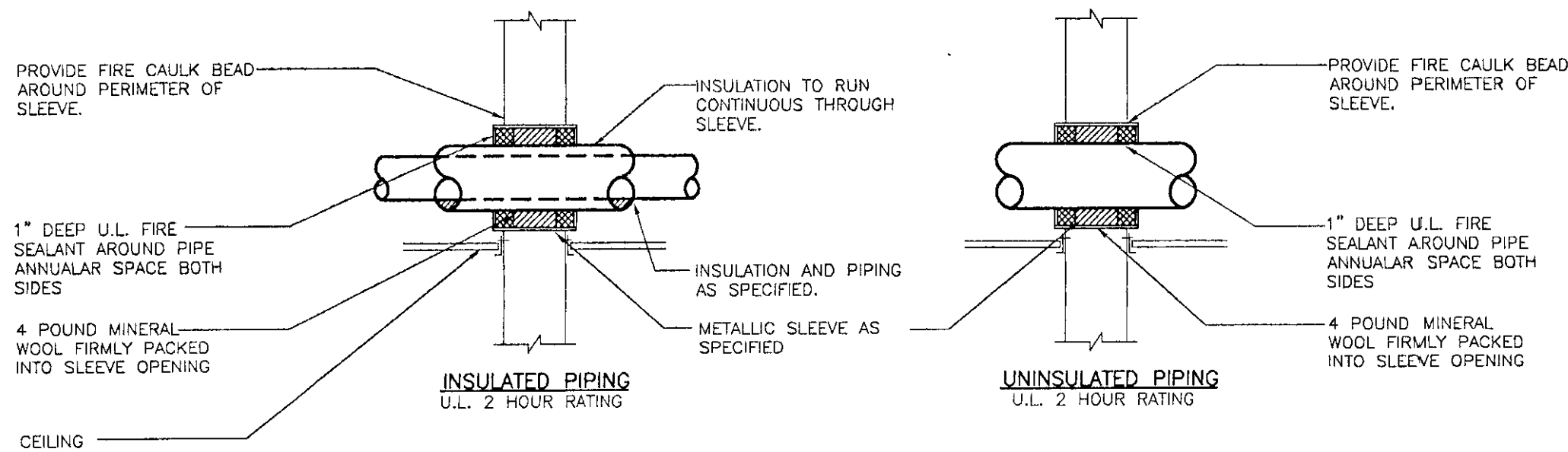
RADIATION SCHEDULE													PLAN SYMBOL	☐
TYPE	MANUF.	ENCLOSURE	ENCLOSURE HEIGHT	ELEMENT	MOUNTING HEIGHT	TIER	BTU/FT.	LIN. FT.	TOT. M.B.H.	A.W.T (DEG. F)	FINISH	REMARKS		
A	VULCAN	DS-12	12"	3/4"C-2 3/4X4 1/2-60	16"	1	1060	PER PLAN	PER PLAN	170	SELECTED BY ARCH.			

DIFFUSER-GRILLE-REGISTER-LOUVER SCHEDULE					S = SUPPLY R = RETURN	FAI = FRESH AIR INTAKE E = EXHAUST	PLAN SYMBOL		
No.	MANUFACTURER	SERIES	MODEL	SIZE (W. X H.)	AIR PAT	DAMPER	FINISH	REMARKS	
E-1	METAL-AIRE	RH	RH	8X8	FIXED	-	W.E.		
E-2	METAL-AIRE	RH	RH	12X8	FIXED	-	W.E.		
S-1	METAL-AIRE	5000-1	5000-1	12X12	S2	-	W.E.		
S-2	METAL-AIRE	5000-1	5000-1	9X9	S1	-	W.E.		
S-3	METAL-AIRE	5000-1	5000-1	9X9	S4	-	W.E.		
S-4	METAL-AIRE	4000	V4004D	12X8	DBL. DEFL.	-	W.E.		
S-5	METAL-AIRE	4000	V4004D	12X12	DBL. DEFL.	-	W.E.		
S-6	METAL-AIRE	4000	V4004D	8X6	DBL. DEFL.	-	W.E.		
S-7	METAL-AIRE	2000	2100	2 1/2"X6"-0"	15° DEFL.	-	ALUM.		
R-1	METAL-AIRE	RH	RH	8x8	FIXED	-	W.E.		
R-2	METAL-AIRE	2000	-	18X8	FIXED	-	ALUM.		
R-3	METAL-AIRE	RH	RH	48X24	FIXED	-	W.E.		
FAI-1	METAL-AIRE	4538	4538	36X12	38° DEFL.	-	FIELD PAINT	PROVIDE BIRDSCREEN, PRIME COAT	
FAI-2	METAL-AIRE	4538	4538	36X12	38° DEFL.	-	FIELD PAINT	PROVIDE BIRDSCREEN, PRIME COAT	
FAI-3	METAL-AIRE	4538	4538	14X14	38° DEFL.	-	FIELD PAINT	PROVIDE BIRDSCREEN, PRIME COAT	



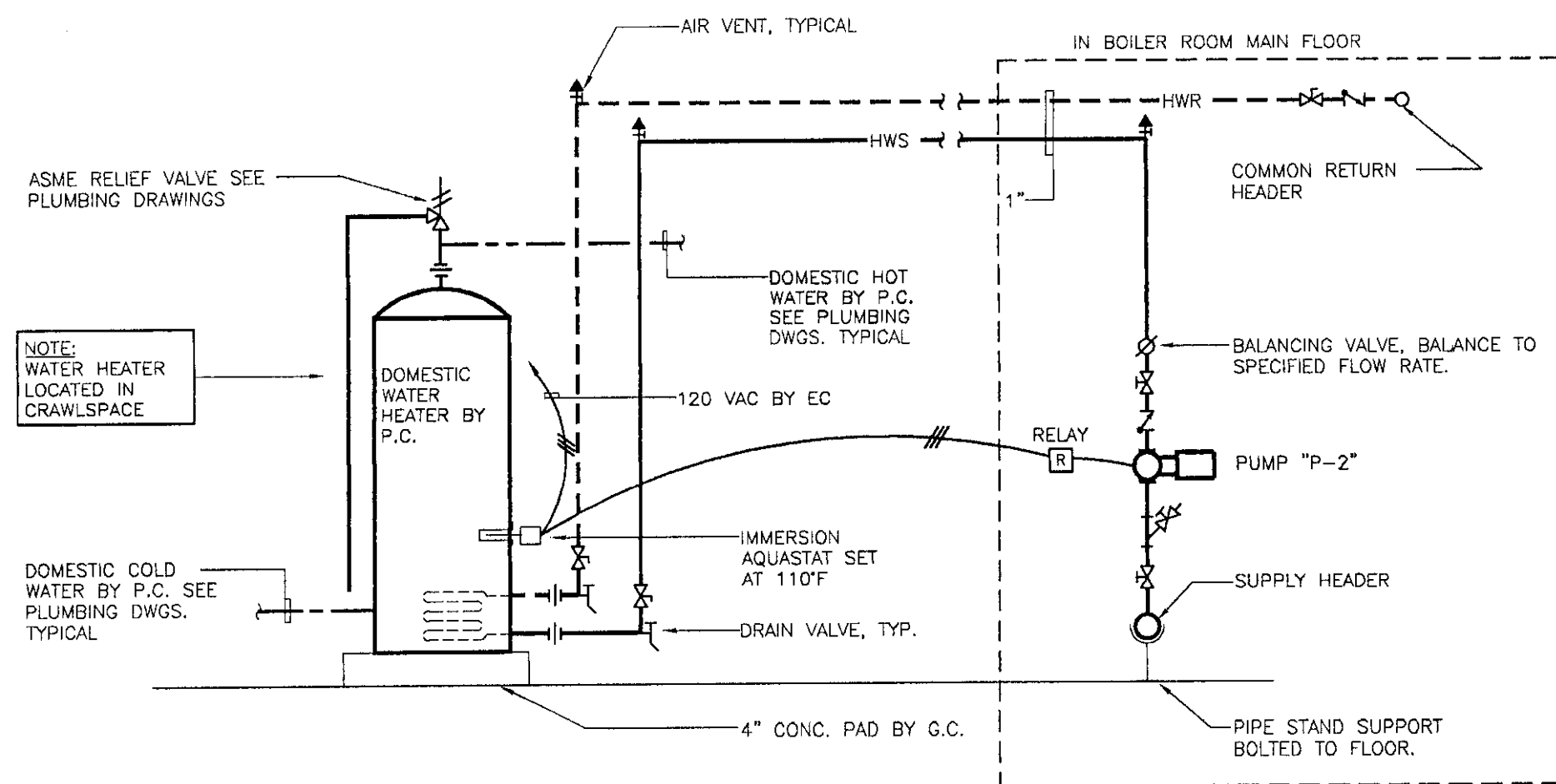
FLOOR PIPE PENETRATION DETAILS

NOTE:
1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
2) ALL FLOOR PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.



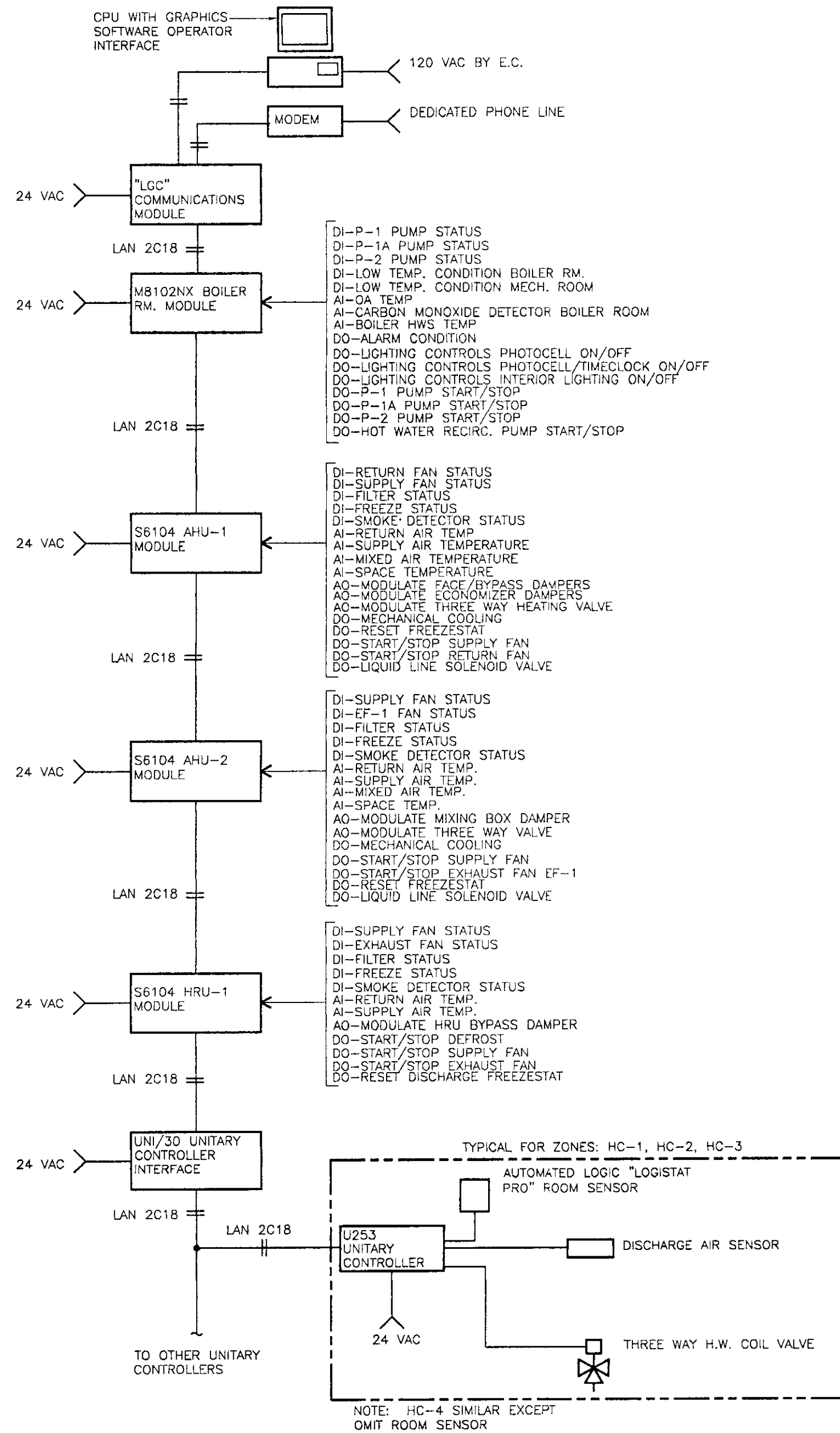
WALL PIPE PENETRATION DETAILS

NOTE:
1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
2) ALL WALL PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.



WATER HEATER PIPING DETAIL

N.T.S.

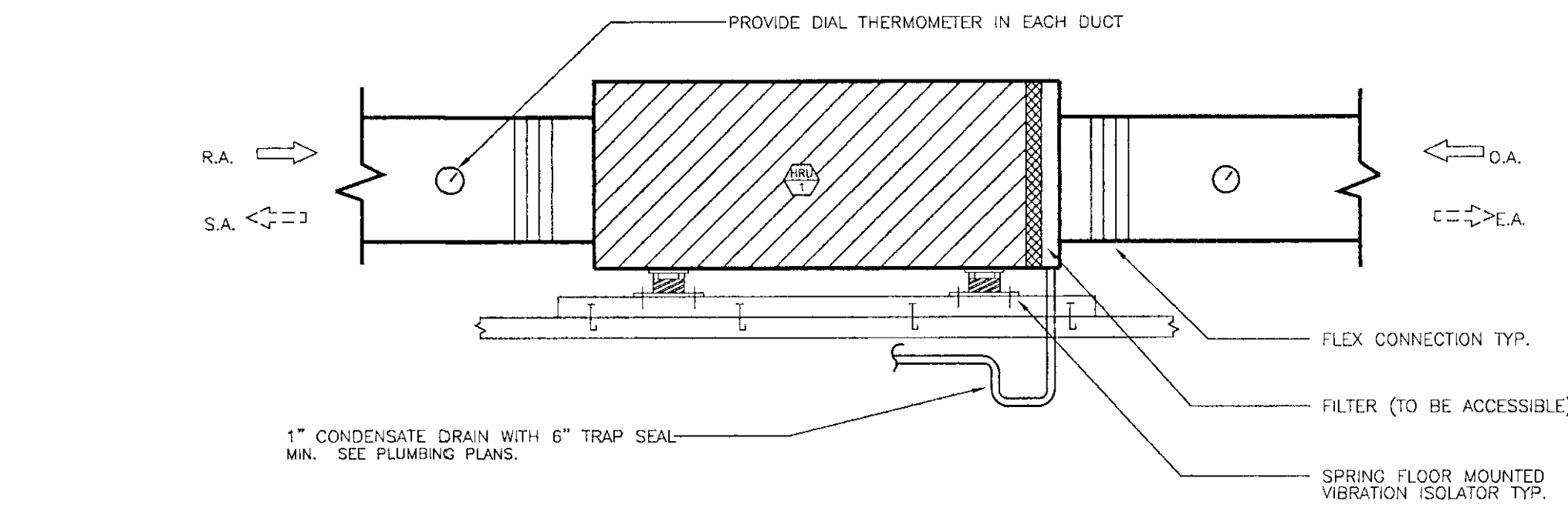


DDC CONTROL SYSTEM ARCHITECTURE

NO SCALE

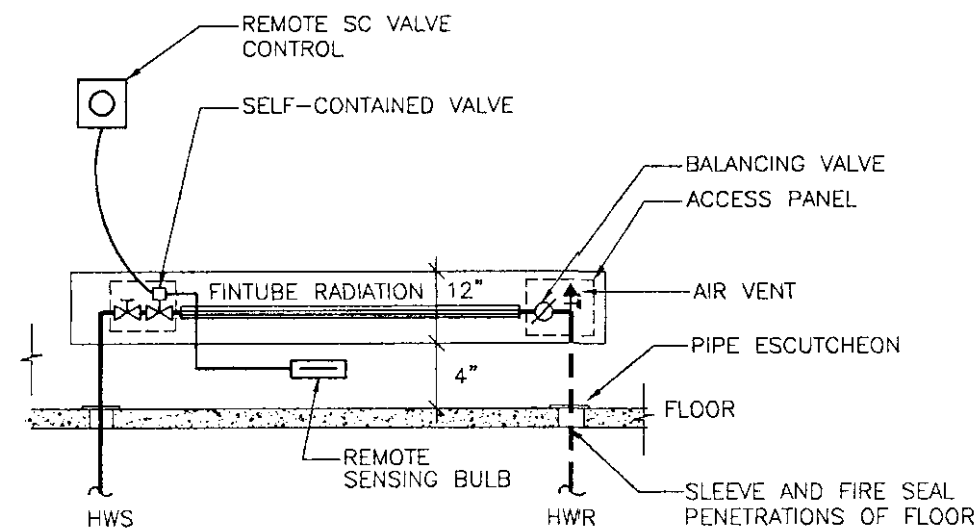
CABINET AND UNIT HEATER SCHEDULE											PLAN SYMBOL	
REF. No.	MBH	CFM	GPM	PRESS. DROP (FT. HD.)	WATER TEMP °F		MOTOR				THROW FT.	MANUFACT. MODEL
					ENT.	LVG.	HP	RPM	VOLTS	PHASE		
UH-1	13.4	580	2.0	2.2	180	160	1/50	1550	120	1	—	VULCAN HV-125A
UH-2	13.4	580	2.0	2.2	180	160	1/50	1550	120	1	—	VULCAN HV-125A
UH-3	13.4	580	2.0	2.2	180	160	1/50	1550	120	1	—	VULCAN HV-125A
CH-1	38.9	420	4.0	1.5	180	157.3	1/10	1050	120	1	—	VULCAN RWI-04
CH-2	19.9	225	1.5	0.22	180	148.9	1/10	1050	120	1	—	VULCAN RWI-02

NOTE:
1) CABINET HEATER CH-1 & CH-2 SHALL BE PROVIDED WITH OPTIONS 10, 11, 12, 23, 29, 125.



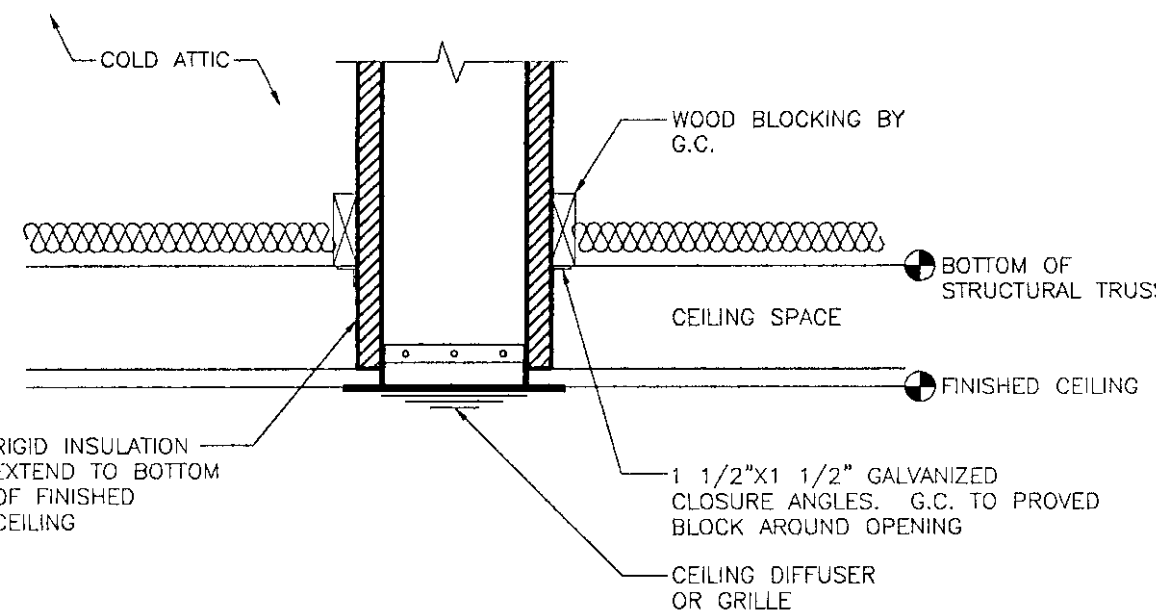
INDOOR HEAT RECOVERY UNIT DETAIL

N.T.S.



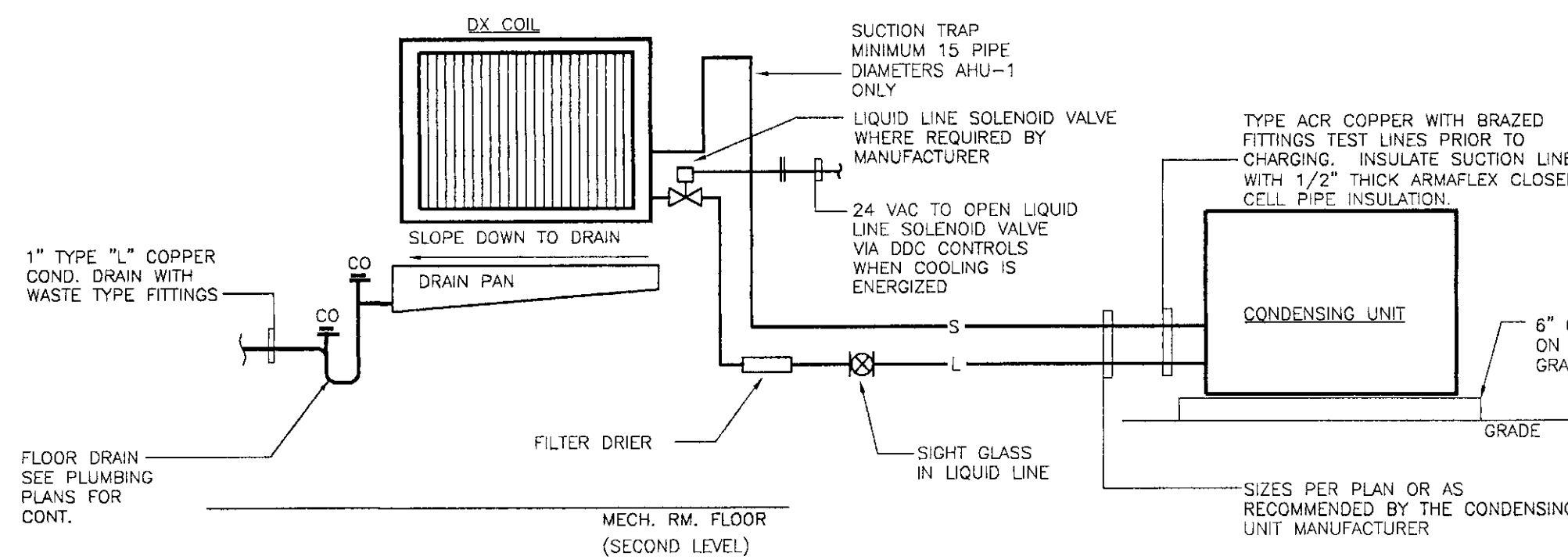
RADIATION PIPING DETAILS

NO SCALE



DIFFUSER/GRILLE DETAIL

NO SCALE



DX COIL REFRIGERANT PIPING DETAIL

NO SCALE

N·B·F
Nimtz • Berryhill • Figiel
ARCHITECTS P.C.
24 1/2 Center Street
Rutland, Vermont
0 5 7 0 1

Steven J. Banik, P.E.
STRUCTURAL ENGINEER
Cuttingsville, Vermont
0 5 7 3 8

LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.
Rutland, Vermont
0 5 7 0 1

THE STATE OF VERMONT
DANIEL W. PUFFINBERGER
REGISTERED PROFESSIONAL ENGINEER
NO. 7499

DuBois & King
• Engineering • Planning
• Development • Management
Rutland, Vermont
0 5 7 0 1

Southbound I-91
Hartford
Travel and Information Center
Hartford, Vermont
Job Name

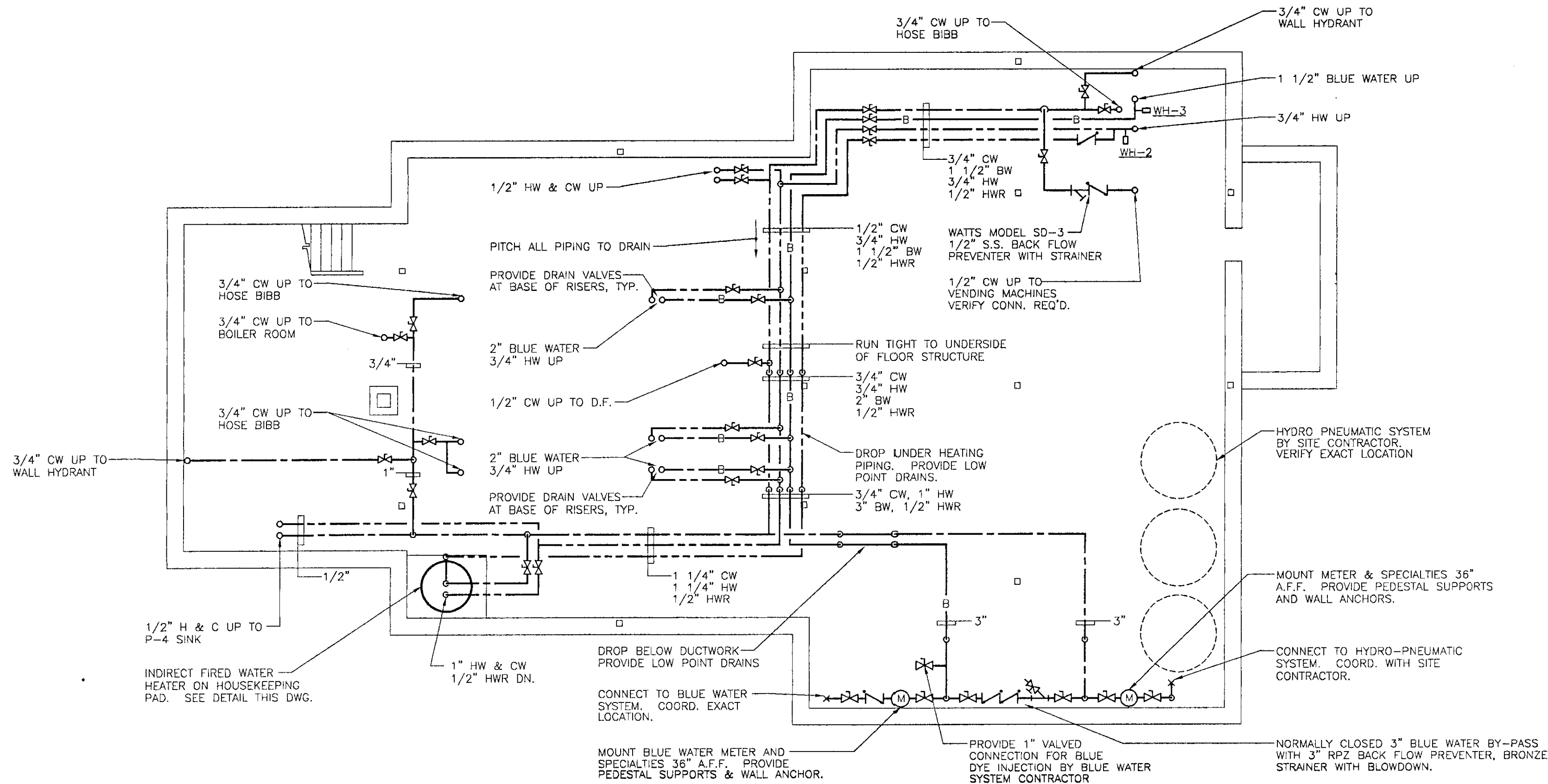
HVAC SCHEDULES
AND DETAILS

Sheet Title

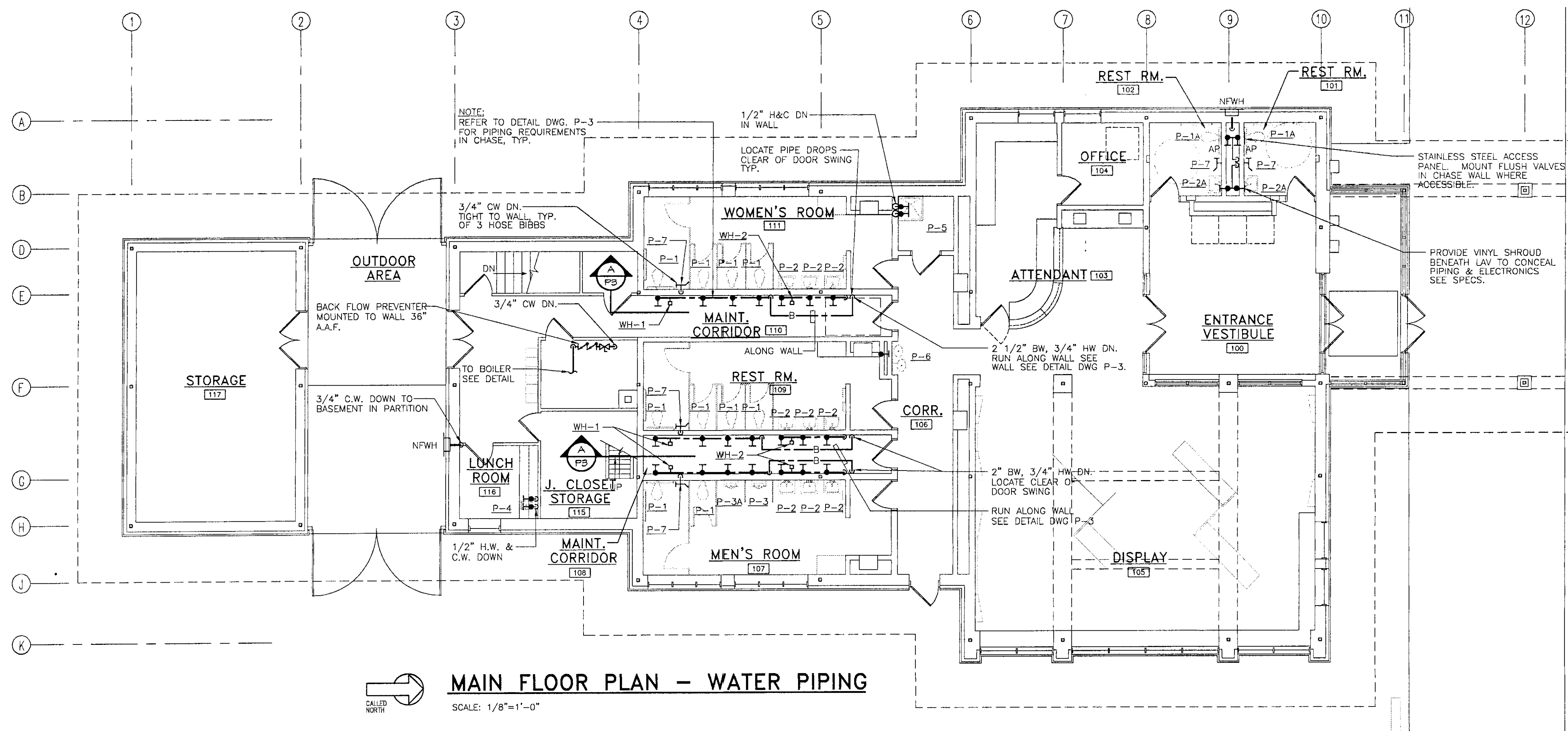
10/31/00
Date

CLIENT REVIEW
Issued For

Project: Hartford
Project Number: 0029
M5
Sheet # 20 Of 28



BASEMENT FLOOR PLAN - WATER PIPING
SCALE: 1/8"=1'-0"



MAIN FLOOR PLAN - WATER PIPING
SCALE: 1/8"=1'-0"

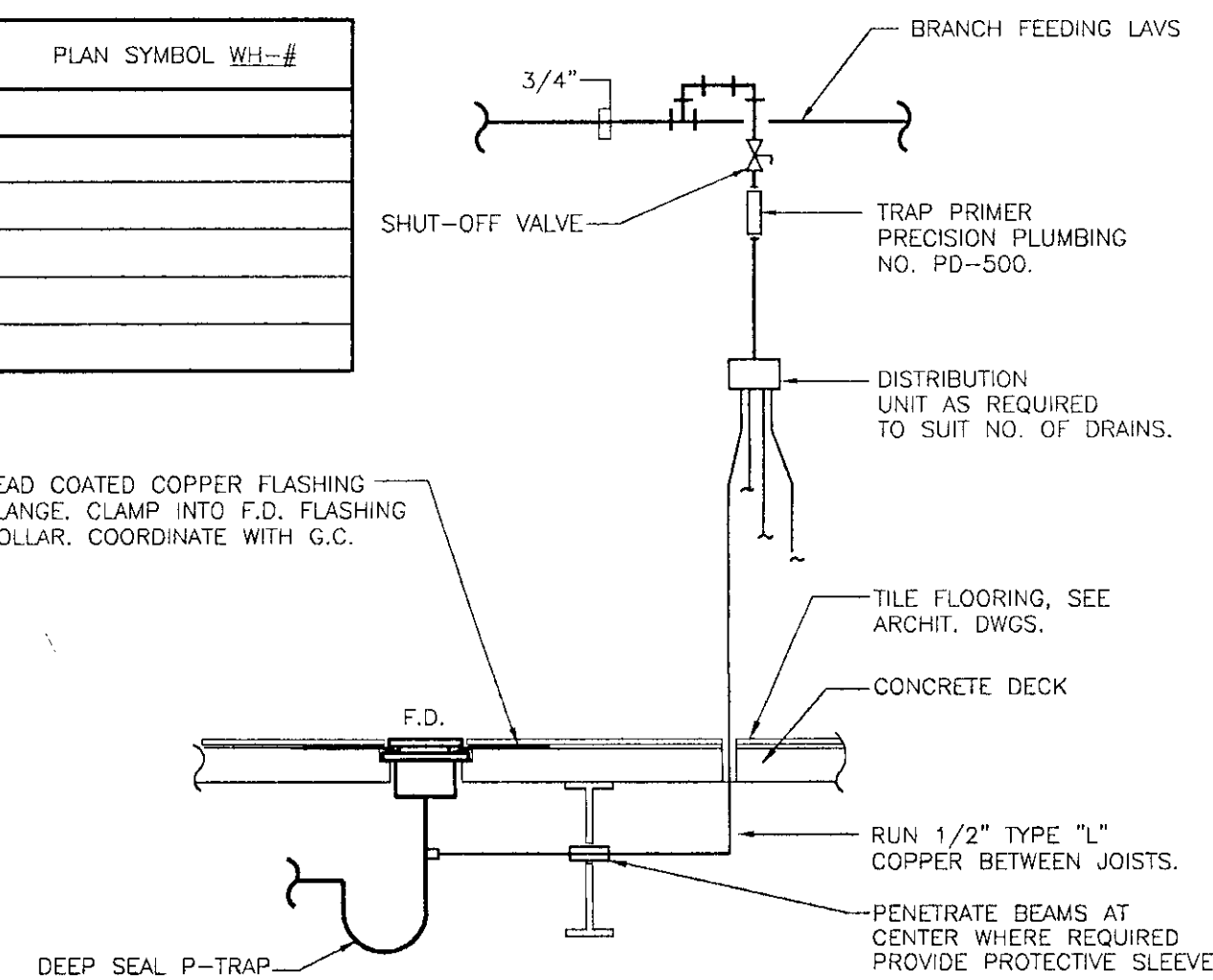
PLUMBING FIXTURE CONNECTION SCHEDULE								PLAN SYMBOL	P-#
NO.	FIXTURE	SOIL	DRAIN	VENT	C.W.	H.W.	TRAP		
P-1	WATER CLOSET	3"	-	2"	1"	-	INTEGRAL		
P-2	LAVATORY	-	2"	2"	1/2"	1/2"	1 1/4"x 1 1/2" P		
P-3	URINAL	-	2"	2"	3/4"	-	INTEGRAL		
P-3A	URINAL	-	2"	2"	3/4"	-	INTEGRAL		
P-4	LUNCH ROOM SINK	-	1 1/2"	1 1/2"	1/2"	1/2"	1 1/2" P-TRAP		
P-5	MOP SINK	-	3"	2"	1/2"	1/2"	3" P-TRAP		
P-6	DRINKING FOUNTAIN	-	1 1/2"	1 1/2"	1/2"	-	1 1/4" P-TRAP		
P-7	HOSE BIBB	-	-	-	3/4"	3/4"	-		

WATER HAMMER ARRESTOR SCHEDULE					PLAN SYMBOL	WH-#
TAG	MANUFACTURER	MODEL	SIZE	REMARKS		
WH-1	ZURN	Z-1700	#300			
WH-2	ZURN	Z-1700	#100			
WH-3	ZURN	Z-1700	#200			

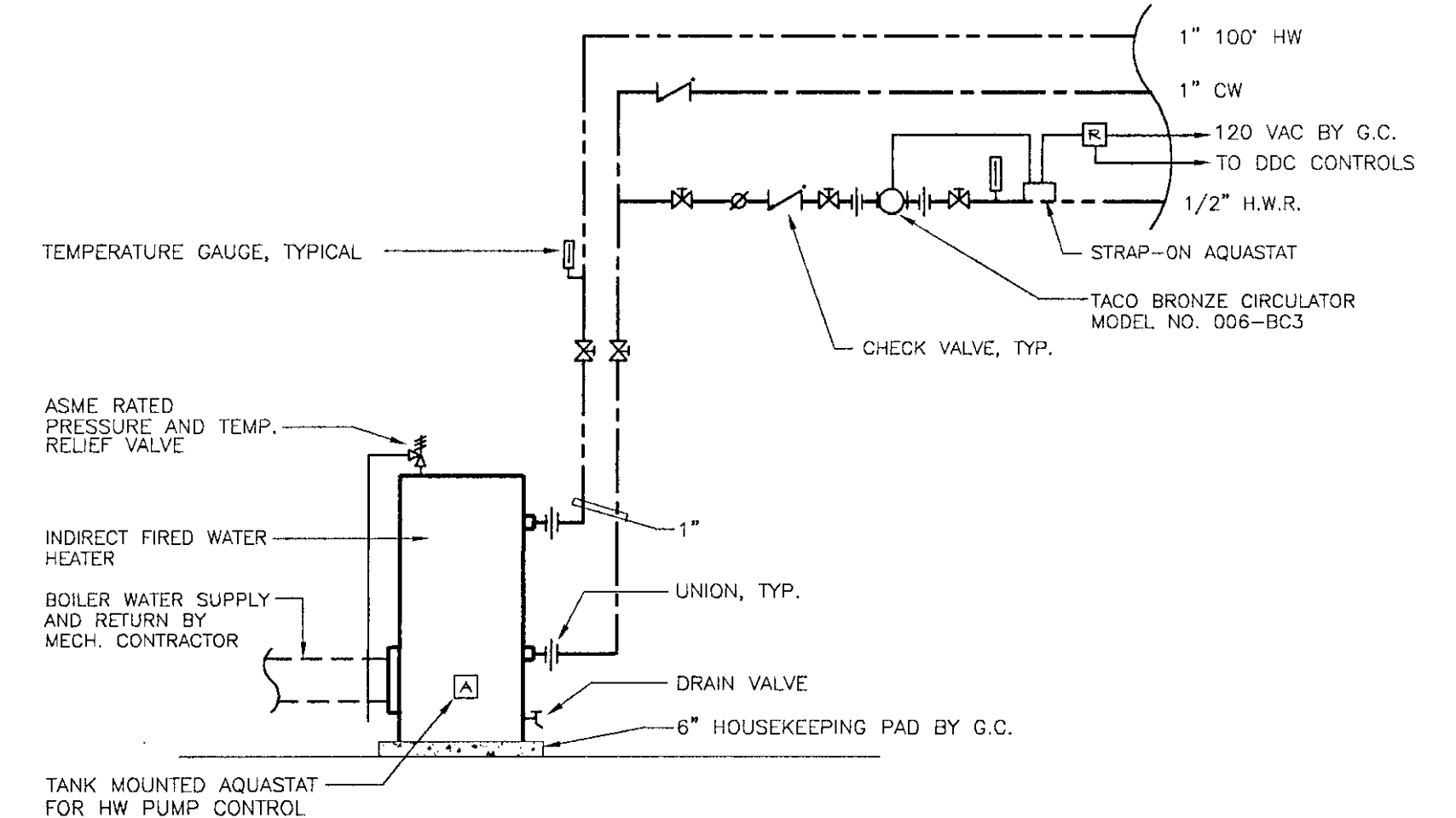
GENERAL NOTES:

- 1) REFER TO ARCHITECTURAL & STRUCTURAL DWGS. FOR EXACT FLOOR DRAIN AND PLUMBING FIXTURE LOCATIONS.
- 2) COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO CONSTRUCTION.
- 3) PITCH ALL WASTE PIPING AT 1/4" PER FT. PITCH ALL WATER PIPING TO DRAIN TO LOW POINTS.

LEAD COATED COPPER FLASHING FLANGE. CLAMP INTO F.D. FLASHING COLLAR. COORDINATE WITH G.C.



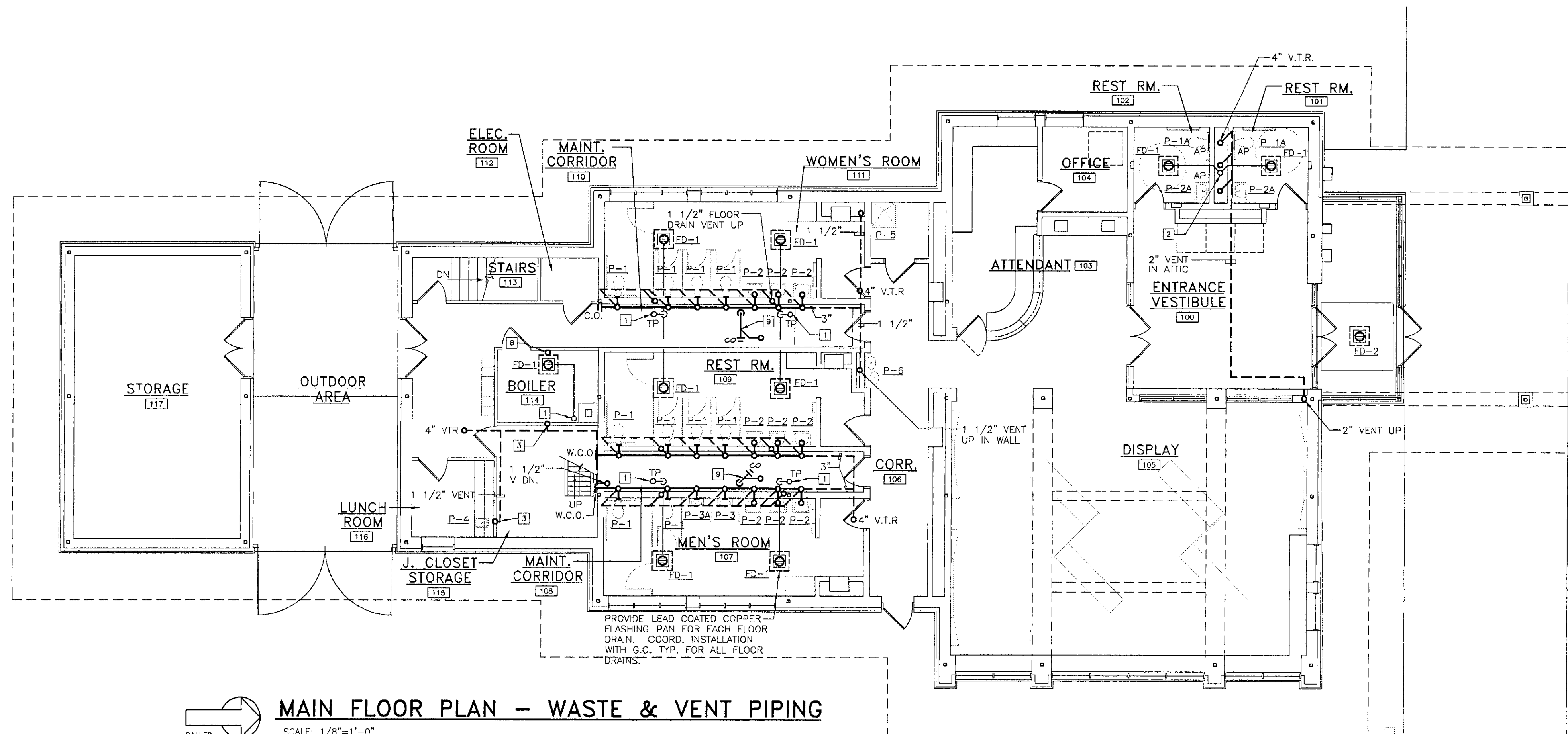
TRAP PRIMER DETAIL
N.T.S.



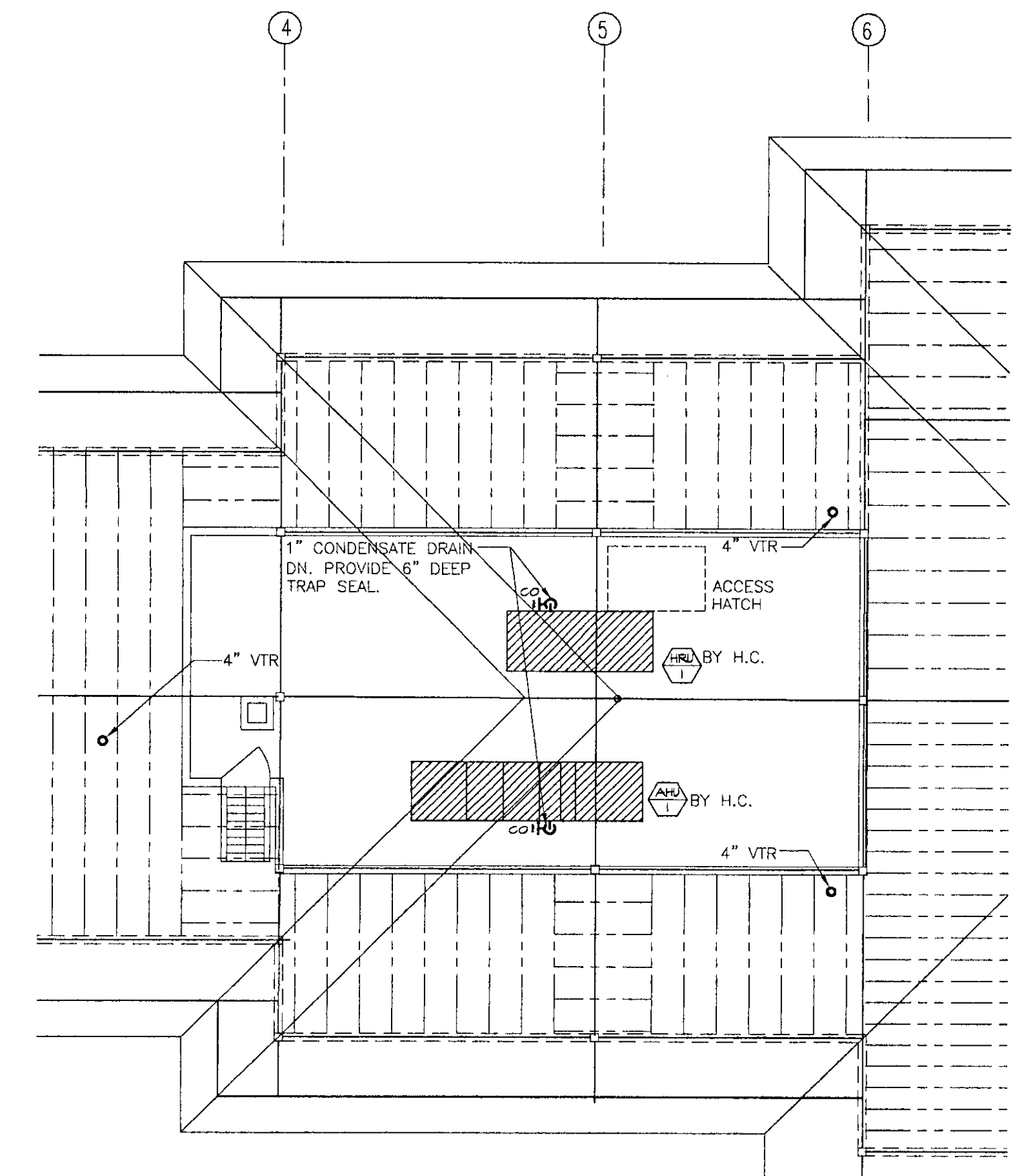
INDIRECT FIRED WATER HEATER DETAIL
N.T.S.

PLUMBING LEGEND

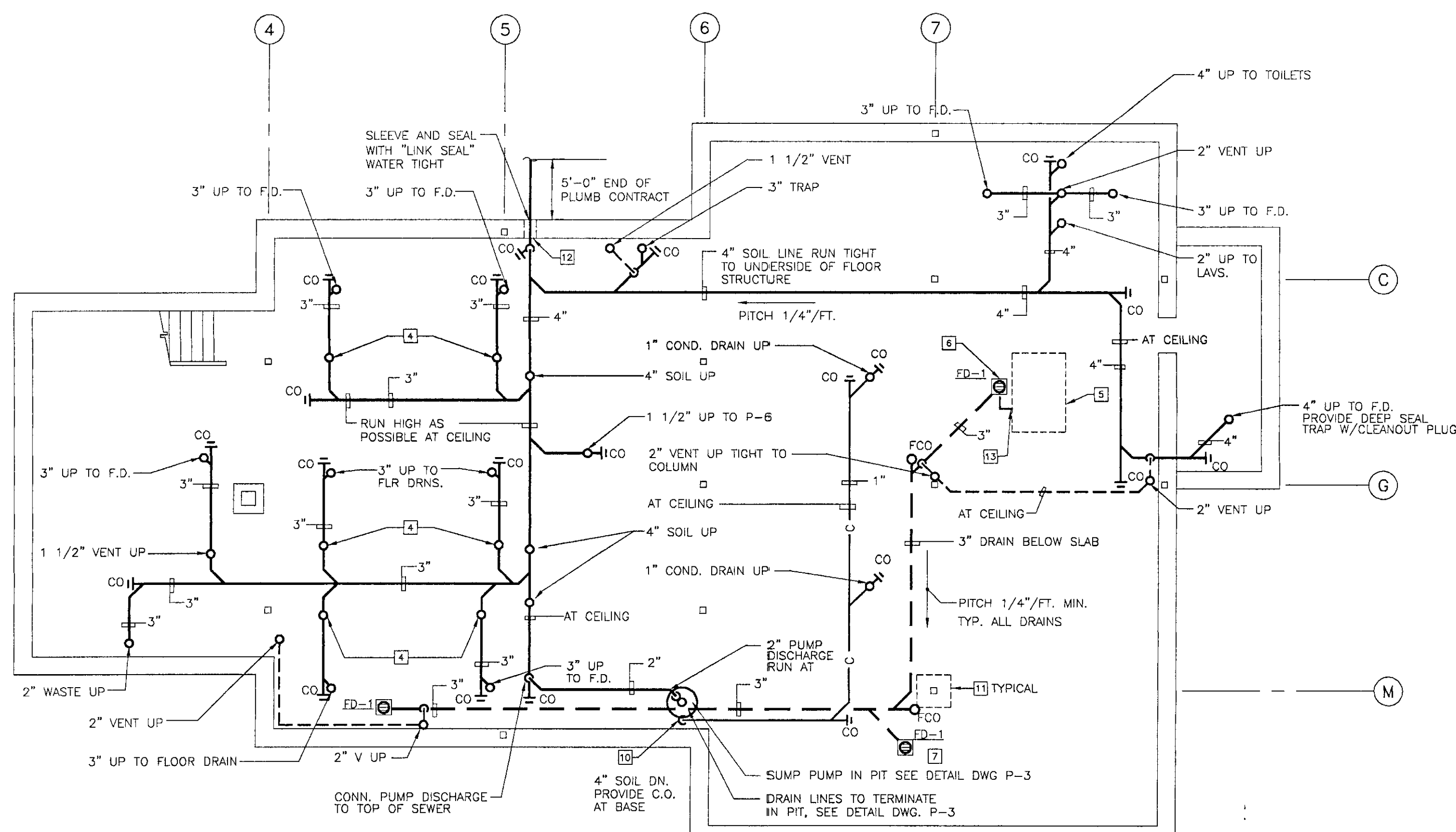
—	SANITARY PIPING
---	VENT PIPING
---	COLD WATER PIPING
---	HOT WATER PIPING (105')
---	HOT WATER RETURN PIPING (105')
B	BLUE WATER PIPING
C	CONDENSATE PIPING
X	BALL VALVE SHUT OFF
I	FIXTURE SHUT OFF
H.B.	HOSE BIBB
NFWH	NON-FREEZE WALL HYDRANT
—	PIPE RISER
—	PIPE DROP
F.D.	FLOOR DRAIN
FCO	FLOOR CLEANOUT
CO	CLEANOUT
Z	BACK FLOW PREVENTER
Z	CHECK VALVE
Ø	TEMPERATURE GAUGE
Ø	BALANCING VALVE
—	UNION
WH	WATER HAMMER ARRESTOR
M	WATER METER



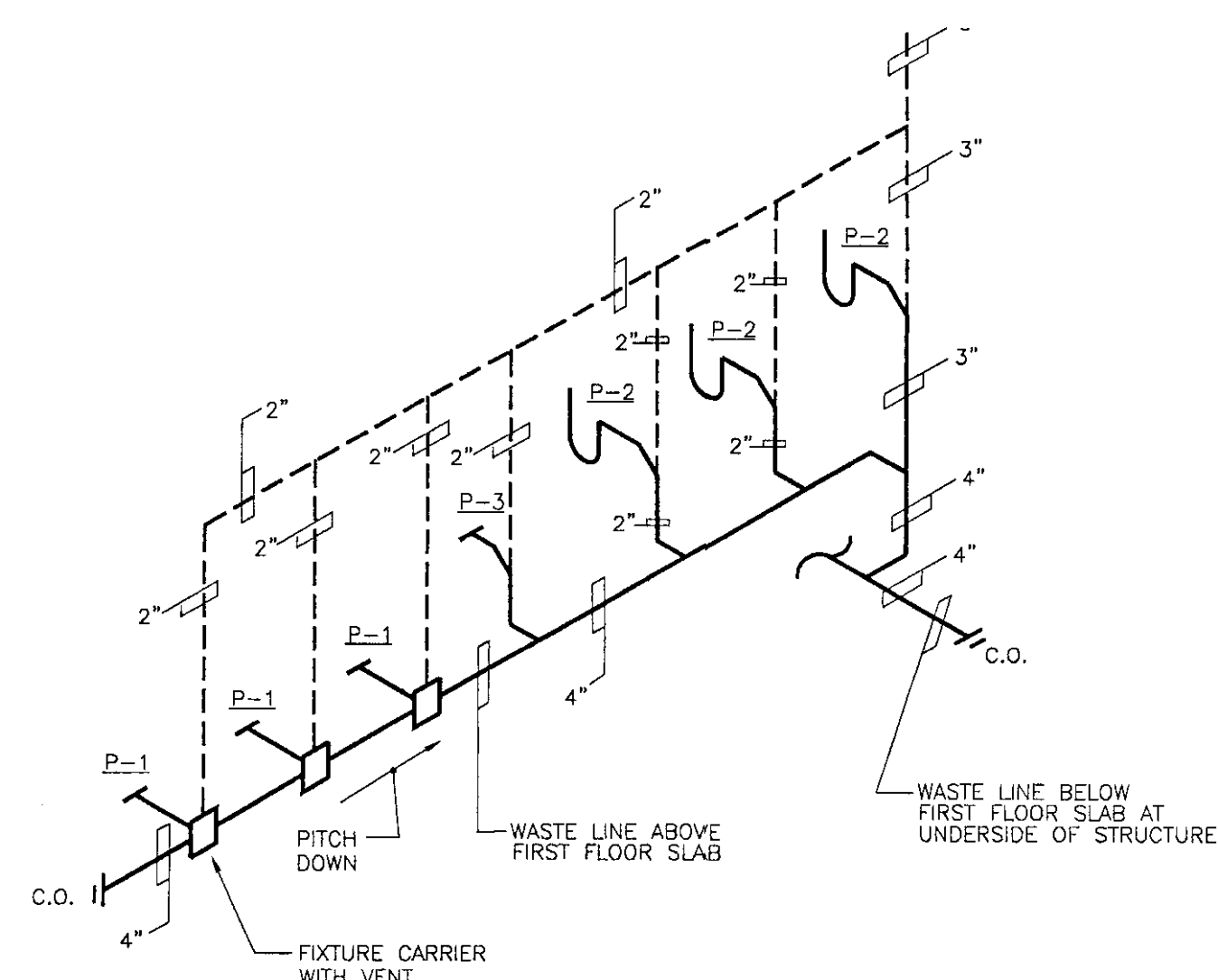
MAIN FLOOR PLAN - WASTE & VENT PIPING
SCALE: 1/8"=1'-0"



MECHANICAL ROOM PLAN - WASTE & VENT PIPING
SCALE: 1/8"=1'-0"



BASEMENT FLOOR PLAN - WASTE & VENT PIPING
SCALE: 1/8"=1'-0"



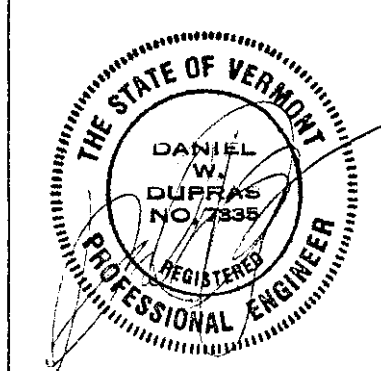
TYPICAL REST ROOM WASTE STACK DIAGRAM
NOT TO SCALE

- DRAWING NOTES**
- TRAP PRIMER MOUNTED TO WALL WHERE ACCESSIBLE. CONNECT TO LAV BRANCH PIPING RUN TRAP PRIMER TIGHT TO WALL THRU FLOOR SLAB.
 - TRAP PRIMER IN CHASE WALL. PROVIDE ACCESS PANEL OF ADEQUATE SIZE FOR MAINTENANCE PURPOSES.
 - 1 1/2" VENT UP IN WALL RUN TIGHT TO CEILING.
 - 1 1/2" VENT UP TIGHT TO PLUMBING CORRIDOR WALL. RUN BETWEEN WALL & HORIZONTAL SOIL LINE AT FLOOR.
 - AIR HANDLING UNIT SEE MECH. DRAWINGS COORD. EXACT LOCATION.
 - COORD. FLOOR DRAIN LOCATION WITH AIR HANDLING UNIT LOCATION.
 - COORD. FLOOR DRAIN LOCATION WITH DOMESTIC WATER & BLUE WATER SYSTEM EQUIPMENT.
 - 1" CONDENSATE DRAIN TIGHT TO WALL. DISCHARGE TO F.D. MAINTAIN AIR GAP. RUN INSULATION CONTINUOUS.
 - 1" CONDENSATE DRAIN UP. DROP DN. TIGHT TO WALL COORDINATE WITH WASTE, VENT & WATER PIPING.
 - 1" CONDENSATE DRAIN TIGHT TO WALL. PIPE TO SUMP PIT.
 - COORDINATE EXACT ROUTING BELOW SLAB WITH FOOTINGS, TYPICAL ALL LOCATIONS.
 - COORDINATE BUILDING SEWER INVERT WITH SEPTIC SYSTEM REQUIREMENTS. COORDINATE WITH SITE CONTRACTOR TO ESTABLISH REQUIRED INVERT. MAINTAIN 5'-0" OF COVER.
 - PROVIDE 1" CONDENSATE DRAIN WITH 6" TRAP SEAL.

N·B·F
Nimtz • Berryhill • Figiel
ARCHITECTS P.C.
24 1/2 Center Street
Rutland, Vermont
0 5 7 0 1

Steven J. Banik, P.E.
STRUCTURAL ENGINEER
Cuttingsville, Vermont
0 5 7 3 8

LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.
Rutland, Vermont
0 5 7 0 1



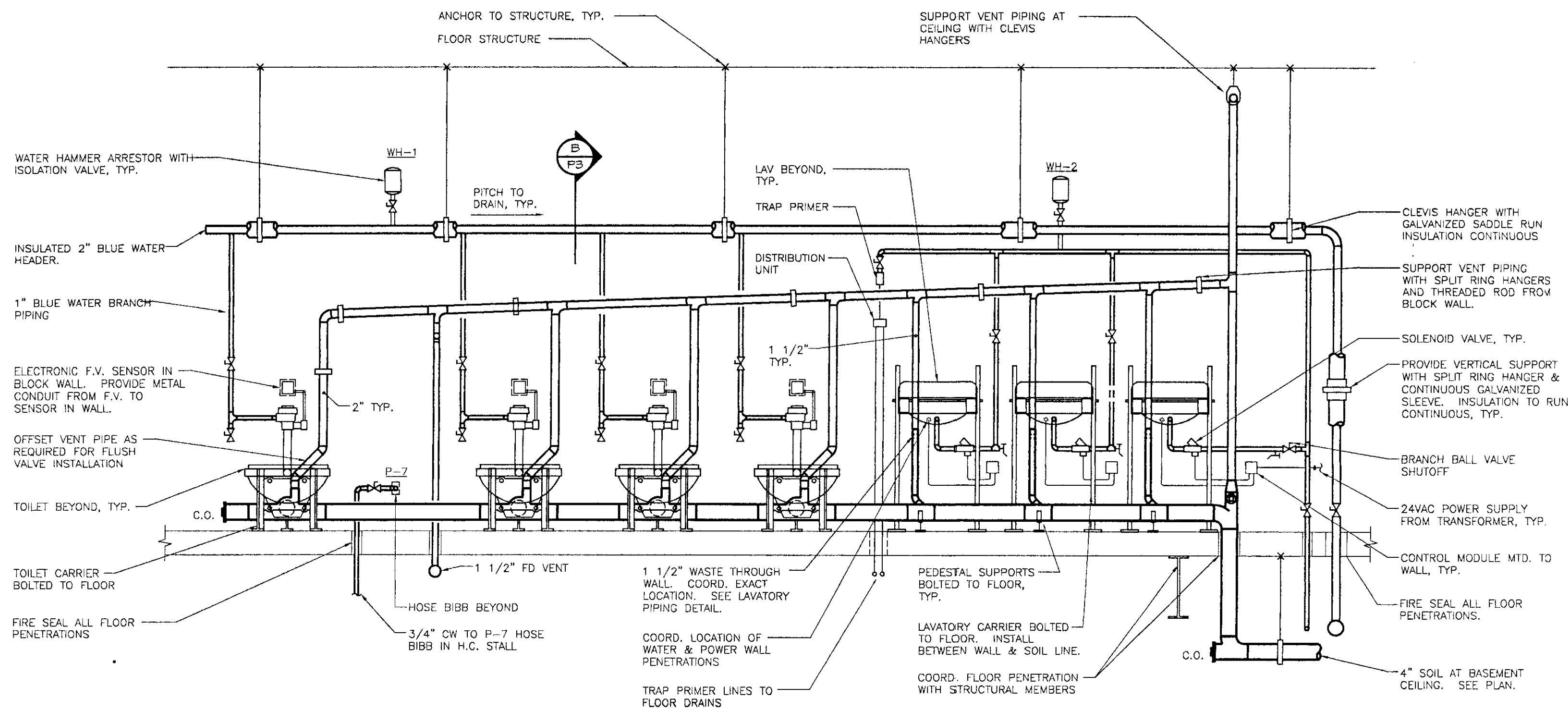
DuBois & King
• Engineering • Planning
• Development • Management
Rutland, Vermont
0 5 7 0 1

Southbound I-91
Hartford
Travel and Information Center
Hartford, Vermont

PLUMBING PLANS
AND DETAILS

10/31/00
Date
CLIENT REVIEW
Issued For

Project: Hartford
Project Number: 0029
P2
Sheet # 22 Of 28

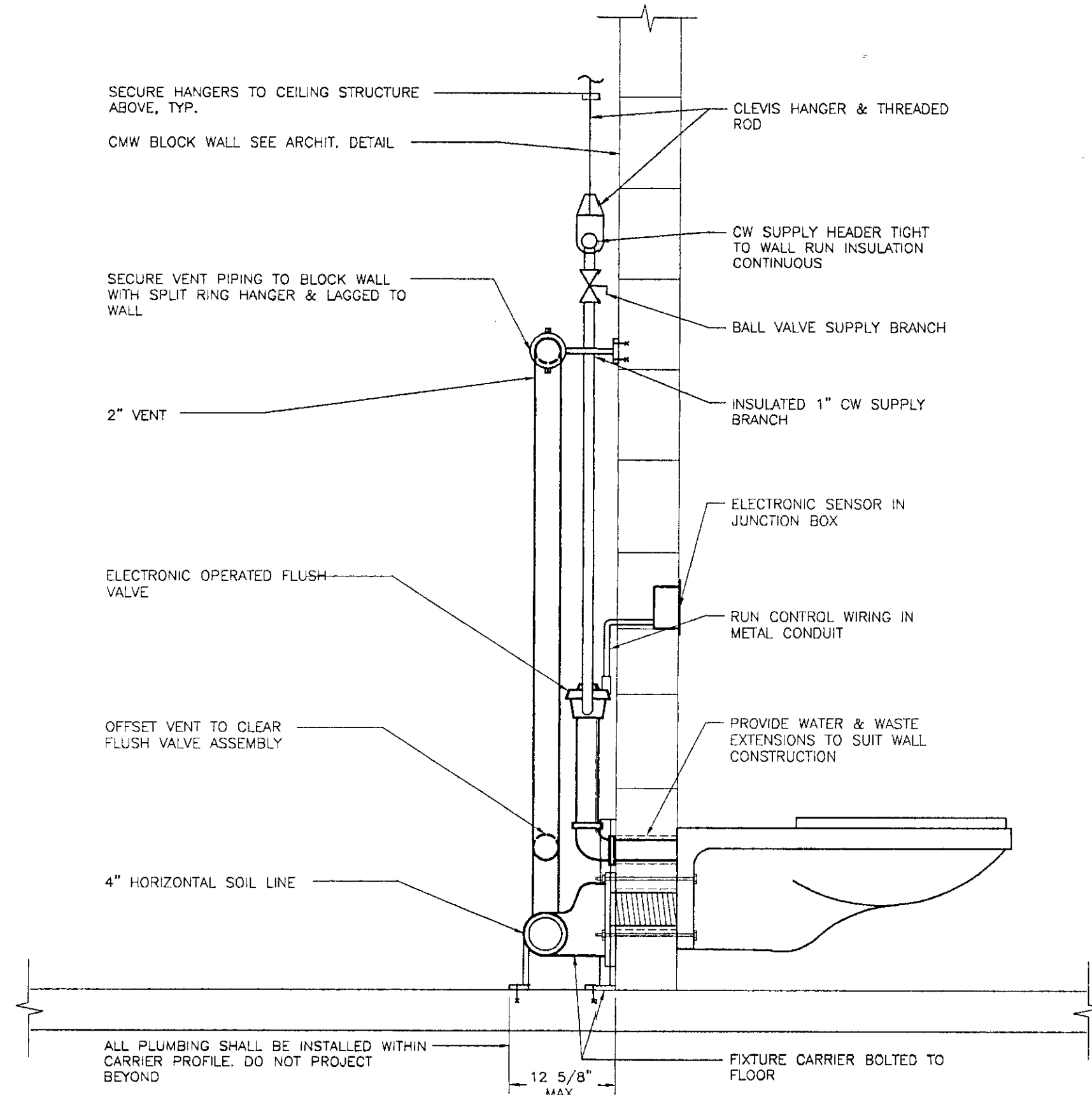


REST ROOM SECTION - PLUMBING

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

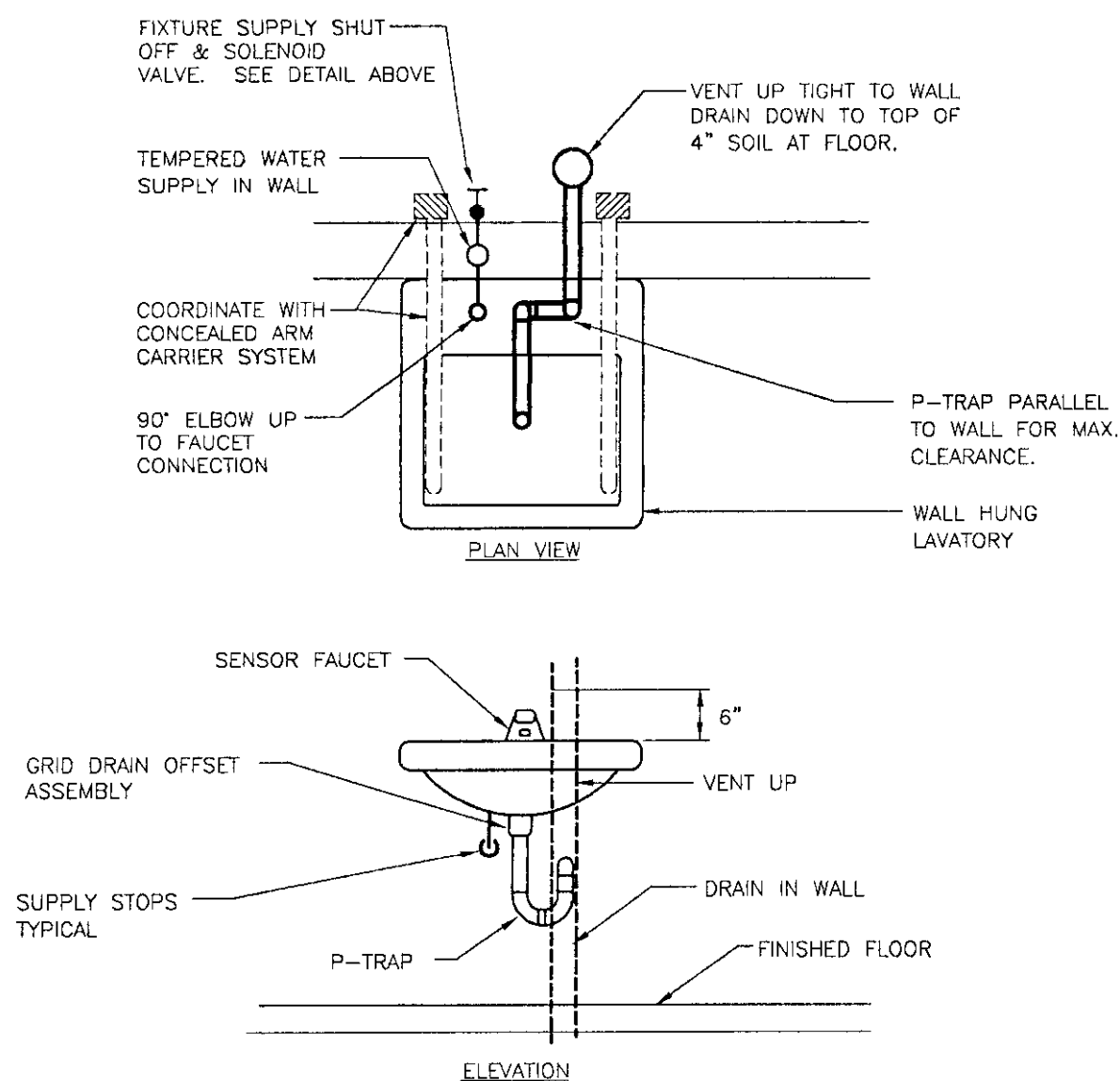
NOTE:

- 1) FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS FOR EXACT F.V. SENSOR INSTALLATION.
- 2) DETAIL IS DIAGRAMMATIC & INTENDED FOR COORDINATION. FOLLOW MANUFACTURERS INSTALLATION INSTRUCTIONS FOR MOUNTING HEIGHTS & ANCHORING REQUIREMENTS.
- 3) PIPE INSULATION NOT SHOWN FOR CLARITY. SEE SPECIFICATIONS FOR INSULATION REQUIREMENTS.
- 4) ARRANGEMENT SIMILAR FOR EACH TOILET ROOM. ROOMS WITH URINALS VARY SLIGHTLY.
- 5) ALL FIXTURES & SPECIALTIES SHALL BE INSTALLED FOR EASY ACCESSIBILITY & SHALL MAINTAIN A LOW PROFILE. SEE SECTION 'B' THIS SHEET.



TOILET CARRIER DETAIL

SCALE: 1" = 1'-0"

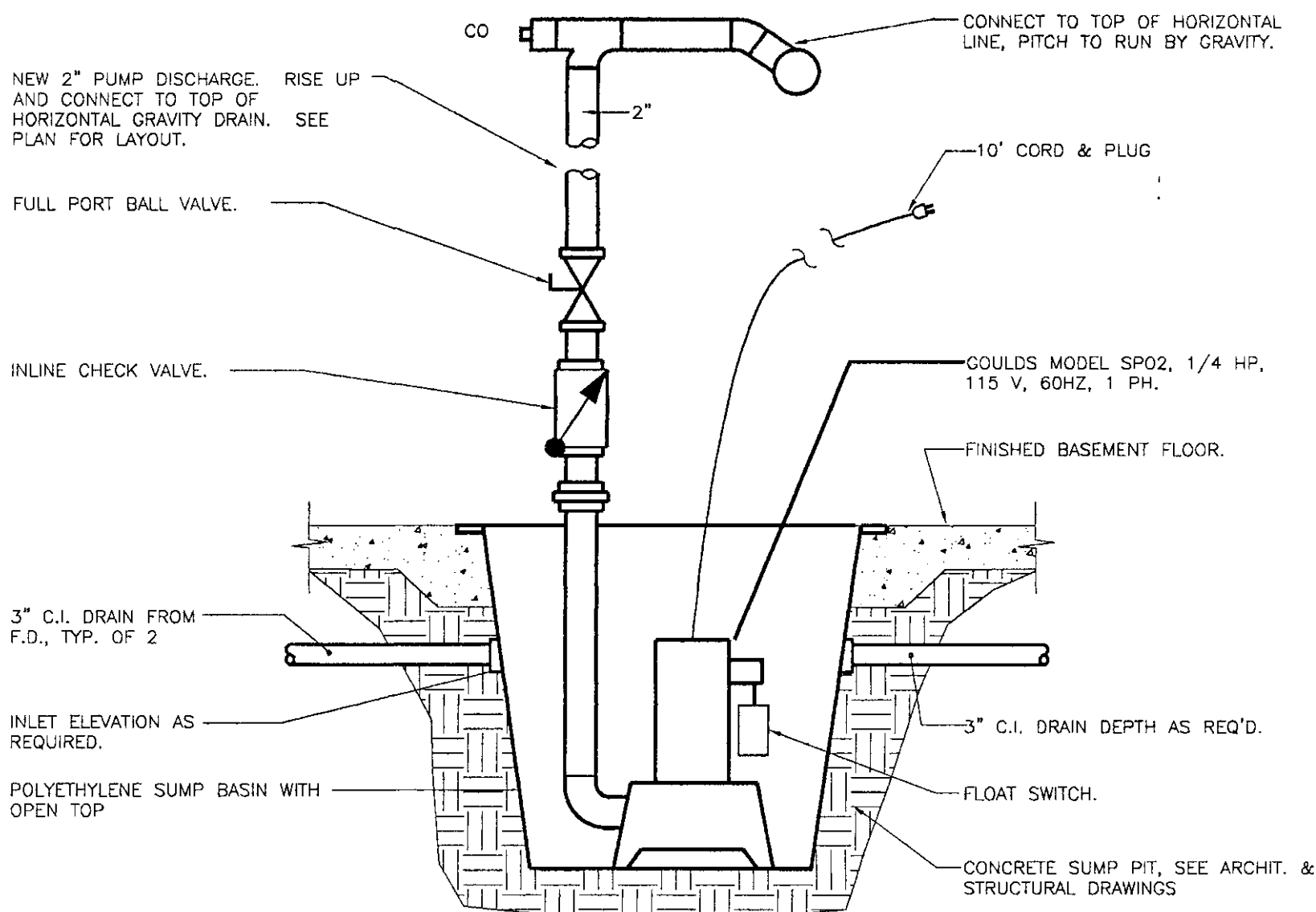


LAVATORY PIPING DETAIL

N.T.S.

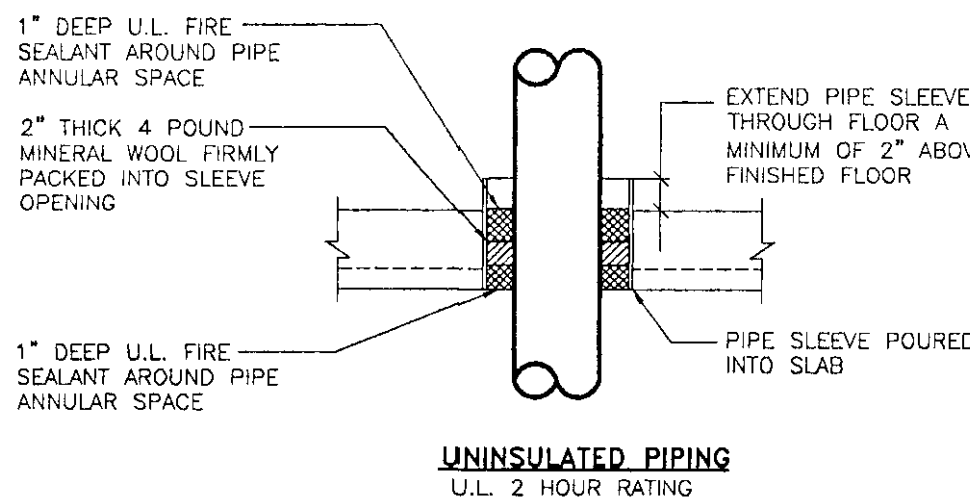
NOTES: ALL P-TRAPS ON LAVATORIES SHALL BE INSTALLED AS SHOWN

INSTALL SENSOR FAUCET, SENSOR, TRANSFORMER AND SOLENOID VALVE PER MANUFACTURER. COORDINATE TRANSFORMER INSTALLATION AND ALL ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.



SUMP PUMP PIPING DETAIL

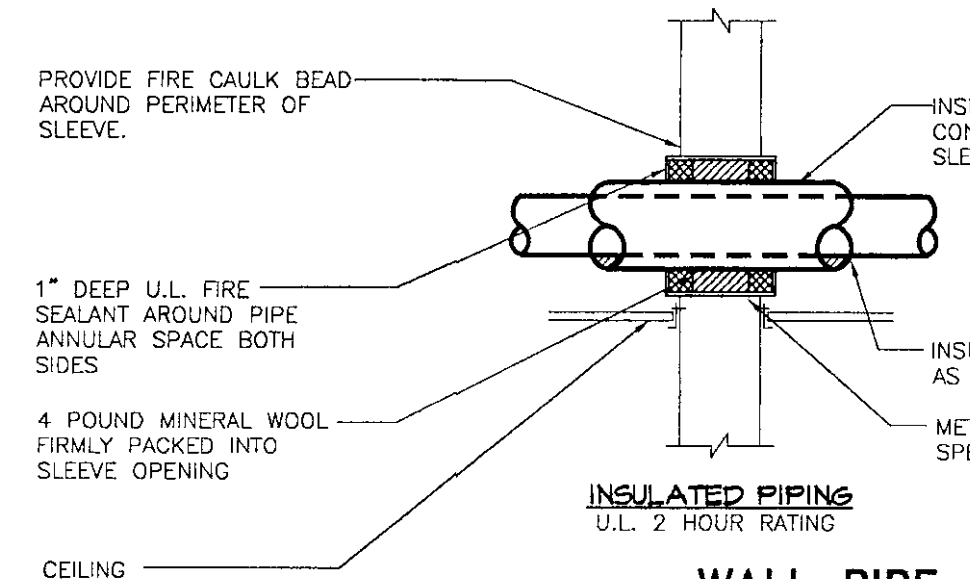
NOT TO SCALE



FLOOR PIPE PENETRATION DETAILS

NOT TO SCALE

- NOTE:
- 1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
 - 2) ALL FLOOR PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.



WALL PIPE PENETRATION DETAILS

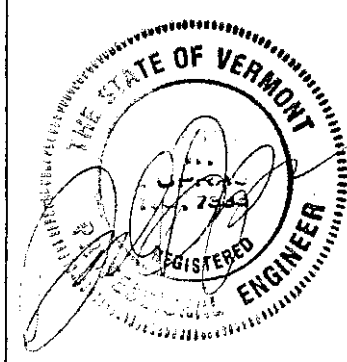
NOT TO SCALE

- NOTE:
- 1) FOLLOW FIRE SEALANT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS IN CONJUNCTION WITH REQUIREMENTS AS DETAILED.
 - 2) ALL WALL PIPE PENETRATIONS SHALL BE INSTALLED PER THIS DETAIL.

N·B·F
Nimt • Berryhill • Figiel
ARCHITECTS P.C.
24 1/2 Center Street
Rutland, Vermont
0 5 7 0 1

Steven J. Banik, P.E.
STRUCTURAL ENGINEER
Cuttingsville, Vermont
0 5 7 3 8

LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.
Rutland, Vermont
0 5 7 0 1



DuBois & King
•Engineering •Planning
•Development •Management
Rutland, Vermont
0 5 7 0 1

Southbound I-91
Hartford
Travel and Information Center
Hartford, Vermont

PLUMBING PLANS
AND DETAILS

10/31/00
Date

CLIENT REVIEW
Issued For

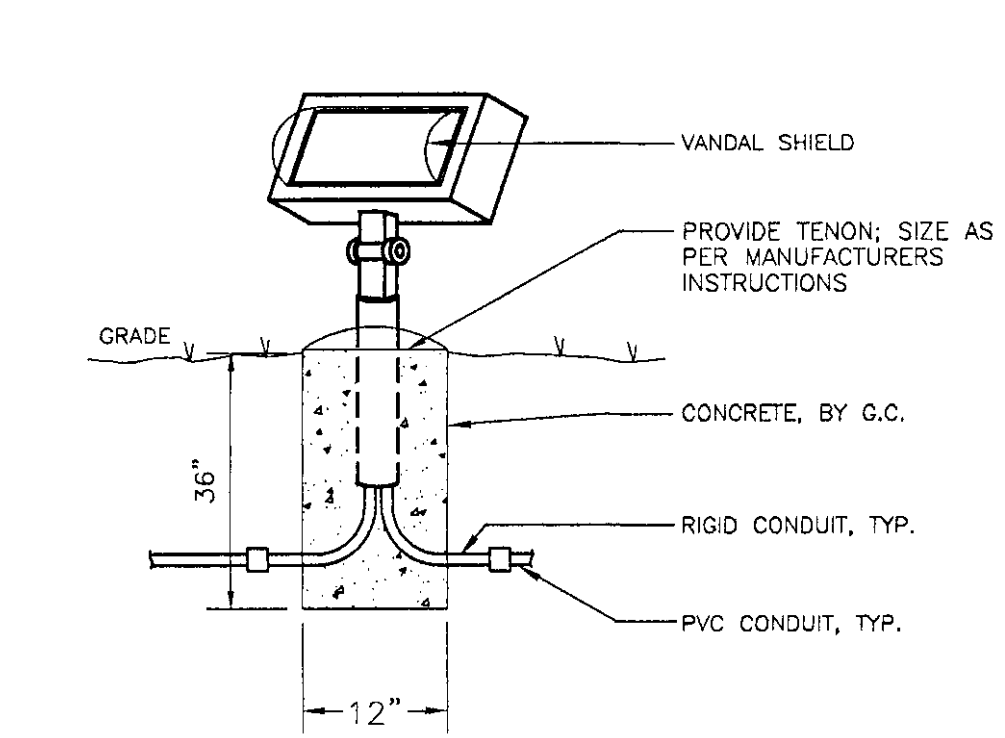
Project: Hartford
Project Number: 0029
P3
Sheet # 23 Of 28

LIGHTING FIXTURE SCHEDULE								
TYPE	MANUFACTURER	STYLE	CATALOG #	FINISH	DIFFUSER	MOUNTING	LAMPS	REMARKS
A	METALUX	STAGGERED STRIP	SL232120DB	WHITE	NONE	ON BEAM	(2) 32W T-8	1, 2
B	METALUX	VANDAL RESISTANT TROFFER	WFC232ACTF140120EB81	WHITE	ACRYLIC	CLG-REC	(2) 32W T-8	7, 11
B1	METALUX	VANDAL RESISTANT TROFFER	WFC232ACTF140120DB	WHITE	ACRYLIC	CLG-REC	(2) 32W T-8(6"U)	2, 11
C	HALO	DOWNLIGHT	H800DB-810BA	WHITE	BLACK BAFFLE	CLG-REC	(2) 18W COMPACT FLUOR	2
D	METALUX	OPEN STRIP	SS232HRS120VEB81	WHITE	NONE	CLG-REC	(2) 32W T-8	
F	FAIL-SAFE	LINEAR FLUORESCENT	FSRCP64A120	WHITE	POLYCARBONATE	WALL @ 8'-0"	(2) 32W T-8	12
G	VISA	SCHOOLHOUSE	CP308R-1H70-PB-OA 96"-SBC	POLISHED BRASS	GLASS GLOBE	PENDANT OVERALL 96"	(1) 70W MH	6
H	HUBBELL	GLOBE/GUARD	NVX150HG	GREY	GLASS GLOBE	AS INDICATED	(1) 100W A19	
K	HUBBELL	GLOBE/GUARD	NVQB180HG	GREY	GLASS GLOBE	AS INDICATED	(1) 18W COMPACT FLUOR	
L	HALO	DOWNLIGHT	M700-730S-1773	WHITE	FRESNEL GLASS	CLG-REC	(1) 70W MH	8, 14
M	ARCH. AREA LIGHTING	PERIOD PENDANT	PRMD-VS-70MH120-BLK	BLACK	ACRYLIC	PENDANT	(1) 70W MH	4, 14
N	HALO	TRACK FIXTURE	L1730	WHITE	NONE	TRACK	(1) 50W PAR30 NFL	10
P	ARCH. AREA LIGHTING	PERIOD POLE	PRMDV570MH240-TRABDBS4R1712S	BLACK	ACRYLIC	POLE @ 17'	(1) 150W HPS	9, 13, 14
Q	SPAULDING	CAMBRIDGE	CEI-PW-5400-III-240-SF-SBG	BLACK	TEMPERED GLASS	POLE @ 40'	(1) 400W HPS	5, 9, 14
R	McGRAW-EDISON	GROUND MOUNT FLOOD LIGHT	FLA12211FA15	BLACK	TEMPERED GLASS VANDAL SHIELD	SEE DETAIL	(1) 100W HPS	14
S	HALO	ADJUSTABLE ACCENT	M700T-790-1720W	WHITE	BLACK BAFFLE	CLG-REC	(1) 35W MH	11, 14
⊗	FAIL-SAFE	EXIT	X6DW5RW DUALEBPTWT	WHITE	RED LETTERS	WALL @ 96" OR CLG AS NOTED	LED; PROVIDED WITH FIXTURE	
☐	SURELITES	EMERGENCY	CU-1-HP-PCL	WHITE	POLYCARB.	WALL @ 96" U.O.N.	PROVIDED WITH FIXTURE	
=LT=	HALO	LIGHT TRACK	L650 SERIES	WHITE	NONE	CENTER ON BEAM	NONE	3
⬇	SURELITES	REMOTE HEAD	CU-1-R-PCL	WHITE	POLYCARB.	WALL @ 96" U.O.N.	PROVIDED WITH FIXTURE	
⬇WP	SURELITES	WEATHER PROOF REMOTE HEAD	GT-8-DWGY-WG7	WHITE	WIRE GUARD	WALL @ 108" U.O.N.	PROVIDED WITH FIXTURE	

REMARKS:

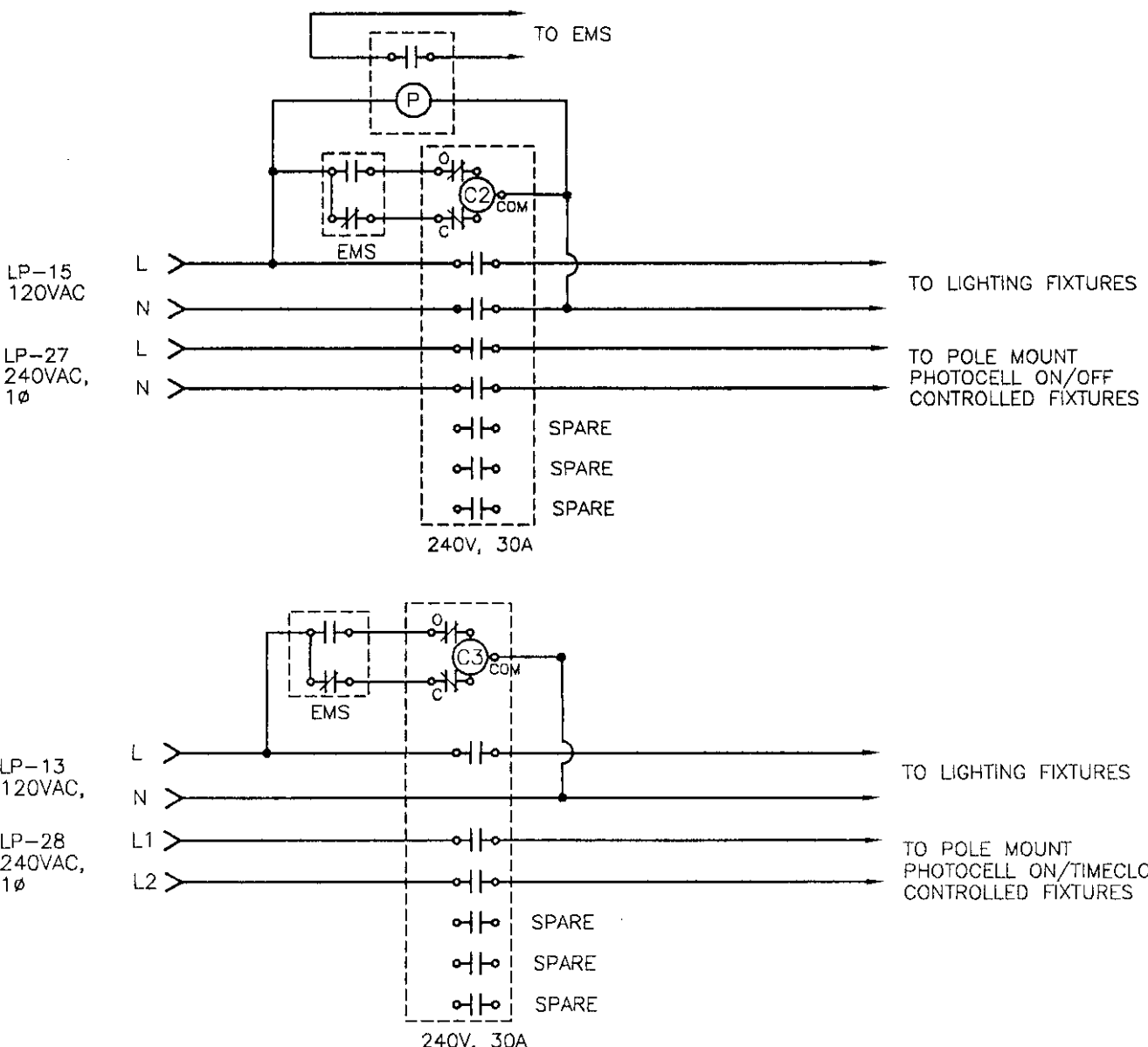
1. FIXTURE SHALL BE MOUNTED ON TOP OF BEAM AS INDICATED ON PLAN AND ARCHITECT'S DETAILS.
2. DIMMABLE ELECTRONIC BALLASTS, REFER TO SPECIFICATIONS
3. PROVIDE ACCESSORIES (FEEDS, CONNECTORS, ETC.) AS NECESSARY TO MAKE A COMPLETE, FINISHED ASSEMBLY.
4. FIXTURE SHALL BE PENDANT MOUNTED. PROVIDE 4' SOLID PENDANT WITH SWIVEL TYPE BASE FOR MOUNTING ON SLOPED SURFACE.
5. PROVIDE MATCHING SPAULDING 40-SQS-625-SGL SQUARE STEEL POLE PROVIDE ANCHOR BOLTS, TOP CAP, HAND HOLE WITH COVER AND BASE COVERS WITH EACH.
6. WITH SURFACE MOUNT BALLAST CANOPY.
7. FIXTURE SHALL BE 1'x4' TO ALLOW MOUNTING BETWEEN BOTTOM WEB OF TRUSSES.
8. MOUNT FIXTURE 18" TO CENTERLINE FROM EXTERIOR WALL.
9. PROVIDE INDIVIDUAL FUSING AT EACH FIXTURE.
10. PROVIDE 36 FIXTURES, MOUNT ON TRACK AND AIM AS DIRECTED BY OWNER.
11. PROVIDE WHITE PAINTED STEEL TRIM KIT FOR MOUNTING IN DRY WALL CEILING.
12. FURNISH TWO (2) TORX HEAD SCREW DRIVERS. DELIVER TO OWNER.
13. PROVIDE IES TYPE I, III OR FT DISTRIBUTION AS INDICATED SUBSTITUTE TYPE DESIGNATION FOR "XX" IN CATALOG NUMBER
14. PROVIDE BALLAST FOR -20' F STARTING

CONTACTOR LIGHTING SCHEDULE					
CONTACTOR	CONTROL	POLES	AMPS	HOLD TYPE	COMMENTS
C1	INTERIOR LIGHTING	10	20	MECH.	
C2	EXTERIOR LIGHTING	6	20	MECH.	PHOTOCELL ON/OFF
C3	EXTERIOR LIGHTING	6	20	MECH.	PHOTOCELL ON TIME OFF



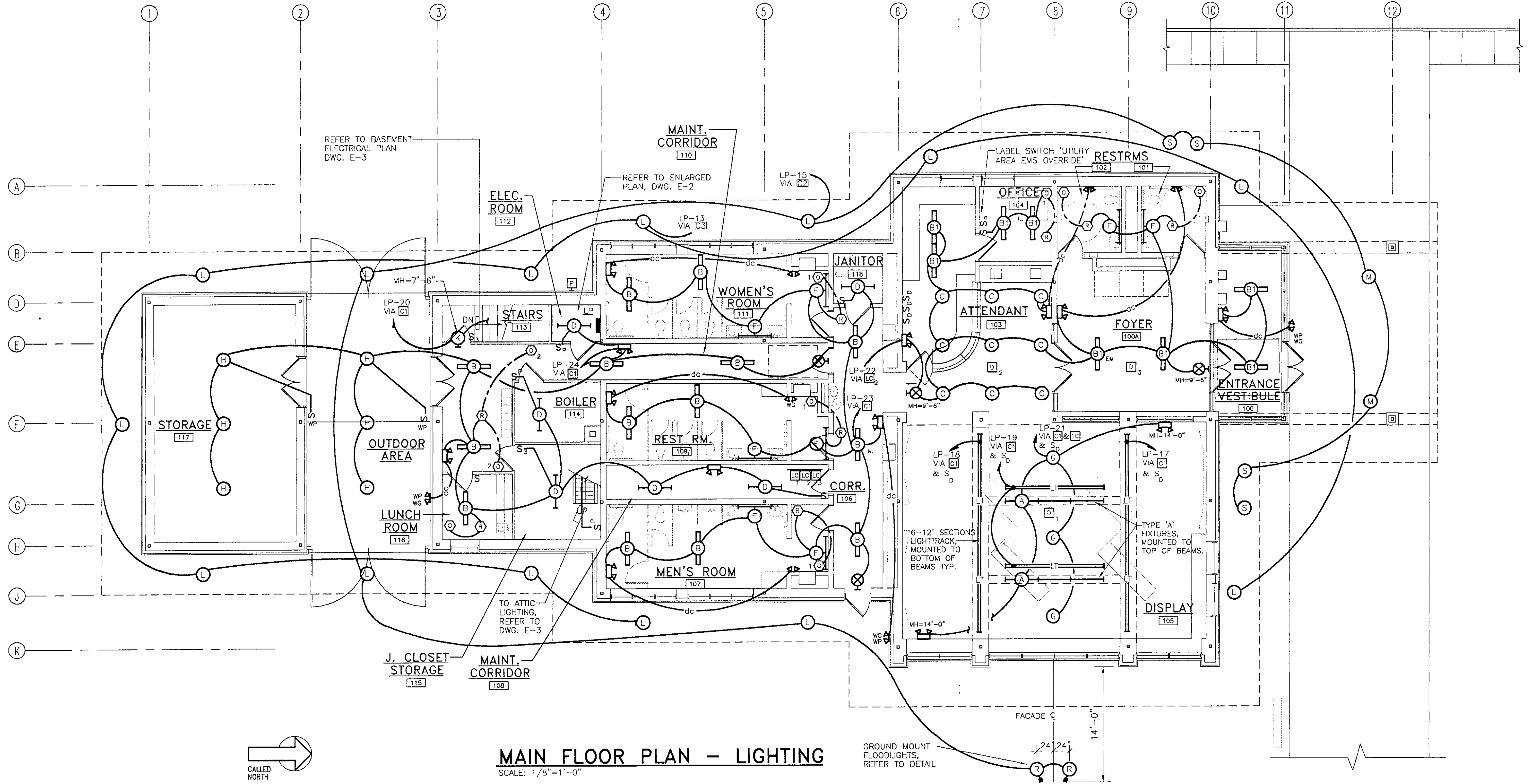
TYPICAL 'R' FIXTURE MOUNTING DETAIL
NOT TO SCALE

- NOTE:
1. GALVANIZED RIGID STEEL CONDUIT CONTINUES 24" PAST END OF SWEEPS. SCHED. 40 PVC DB FOR STRAIGHT RUNS.
 2. LIGHT POLE GROUND NOT SHOWN; #8 AWG WITH GROUND ROD.
 3. BASE REINFORCING: 6 x 6/6 WWF CAGE, 8" DIA.
 4. PROVIDE CONCRETE ENCASEMENT OF CONDUIT BELOW ROADWAYS.

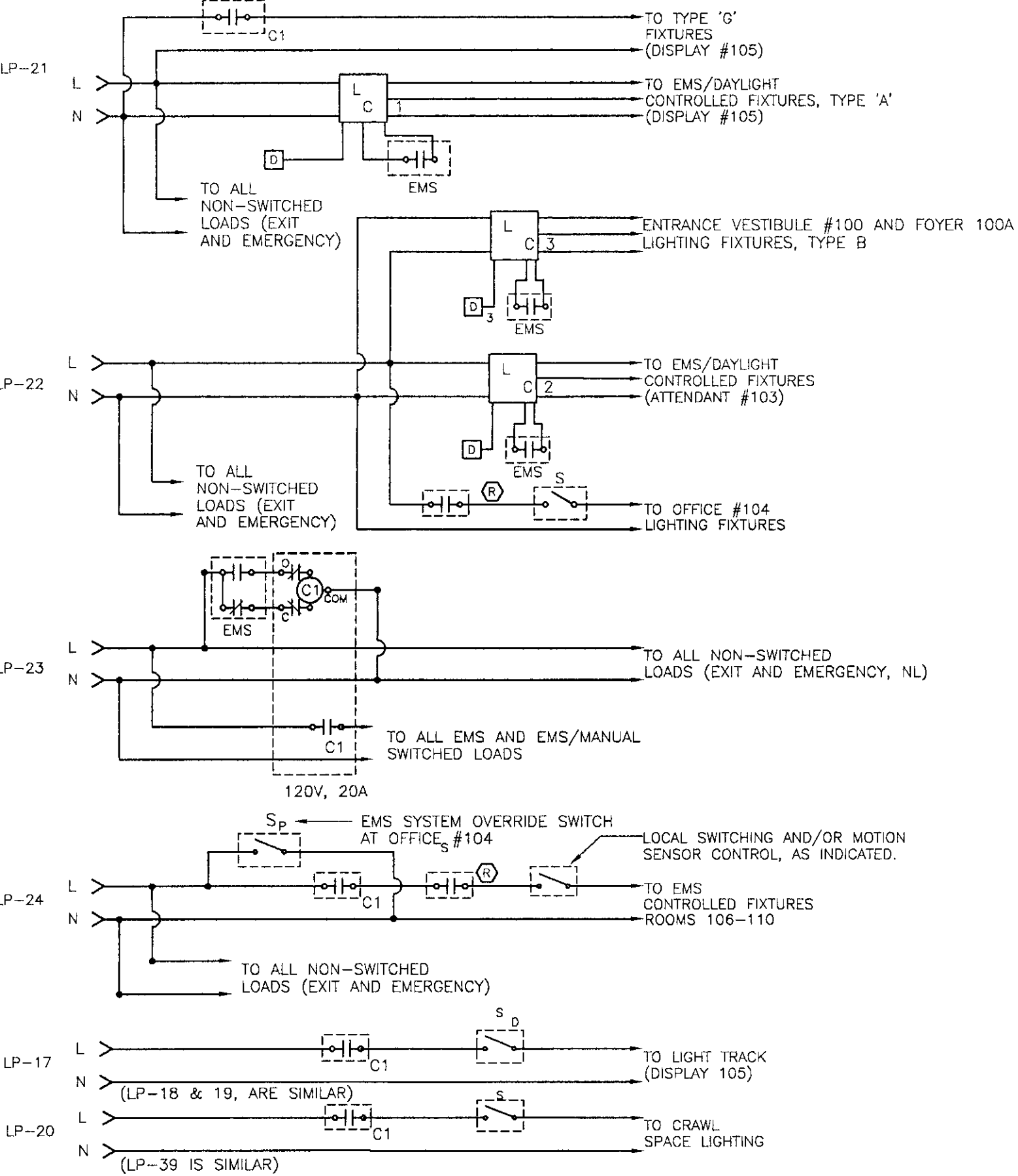


EXTERIOR LIGHTING CONTROL WIRING DIAGRAM
NOT TO SCALE

- NOTES
1. BONDING CONDUCTOR IS NOT SHOWN.

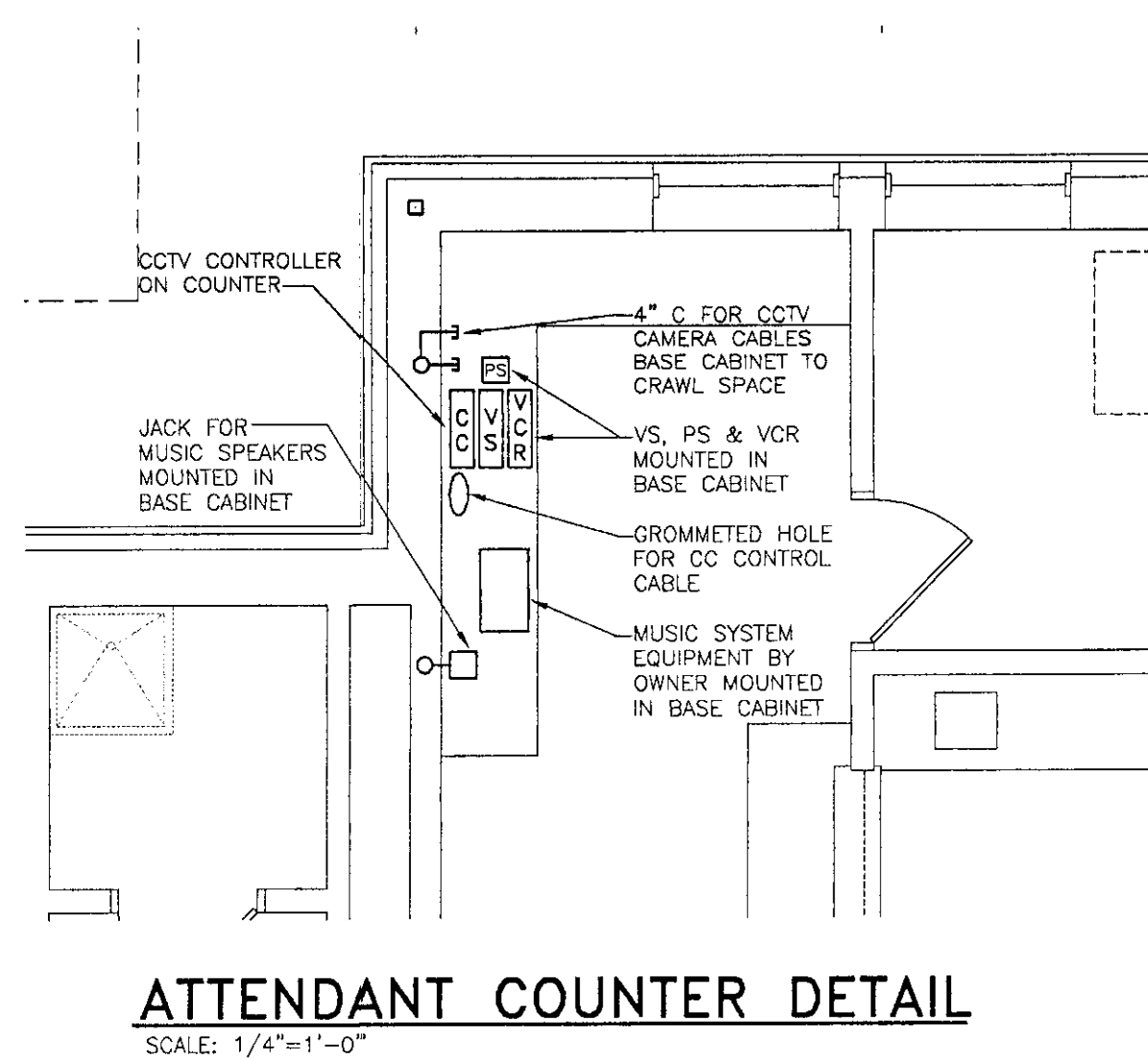
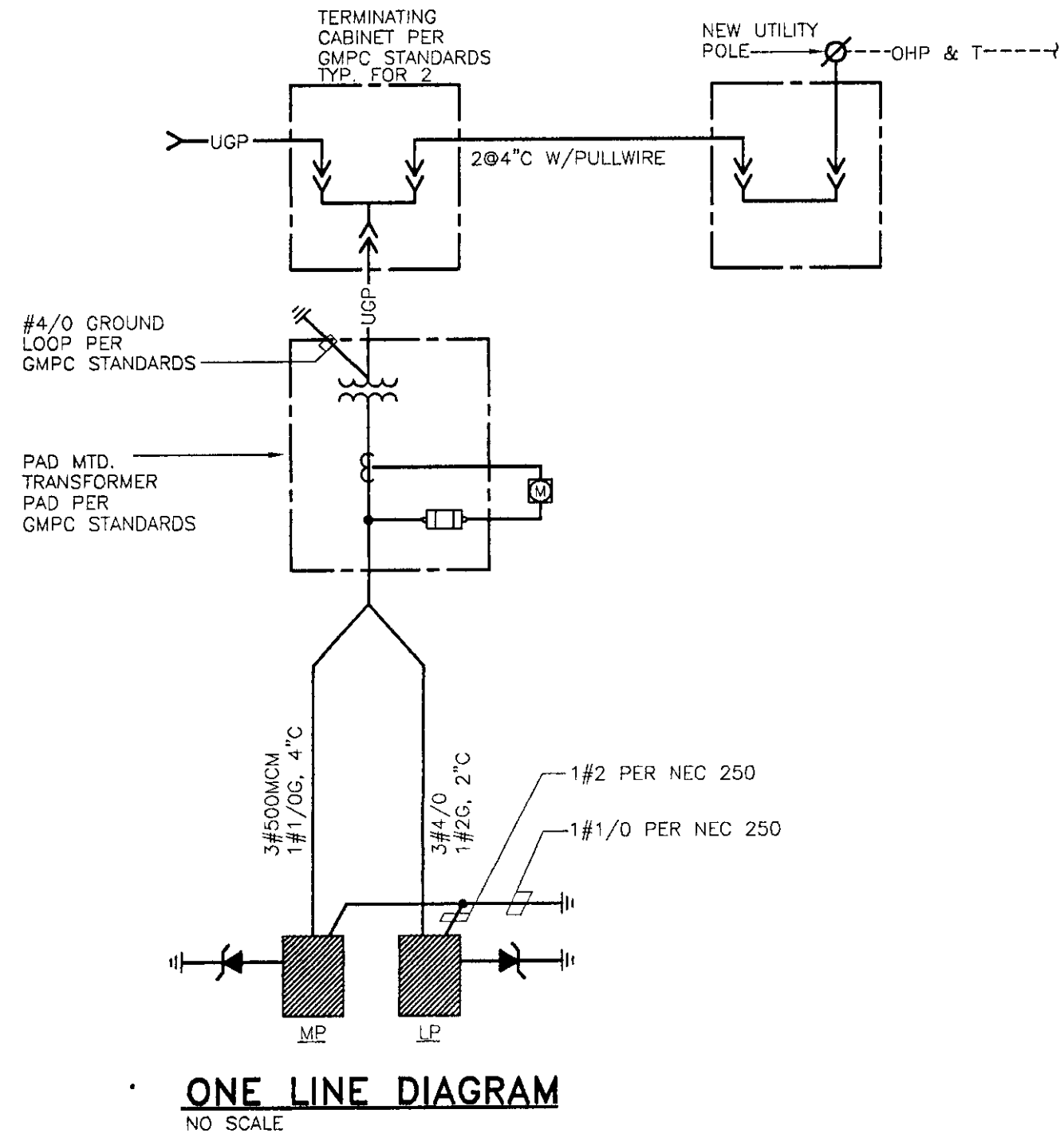


MAIN FLOOR PLAN - LIGHTING
SCALE: 1/8"=1'-0"



INTERIOR LIGHTING CONTROL WIRING DIAGRAM
NOT TO SCALE

- NOTES
1. BONDING CONDUCTOR IS NOT SHOWN.
 2. REFER TO PLANS FOR EXACT QUANTITIES OF DEVICES AND BRANCHES.

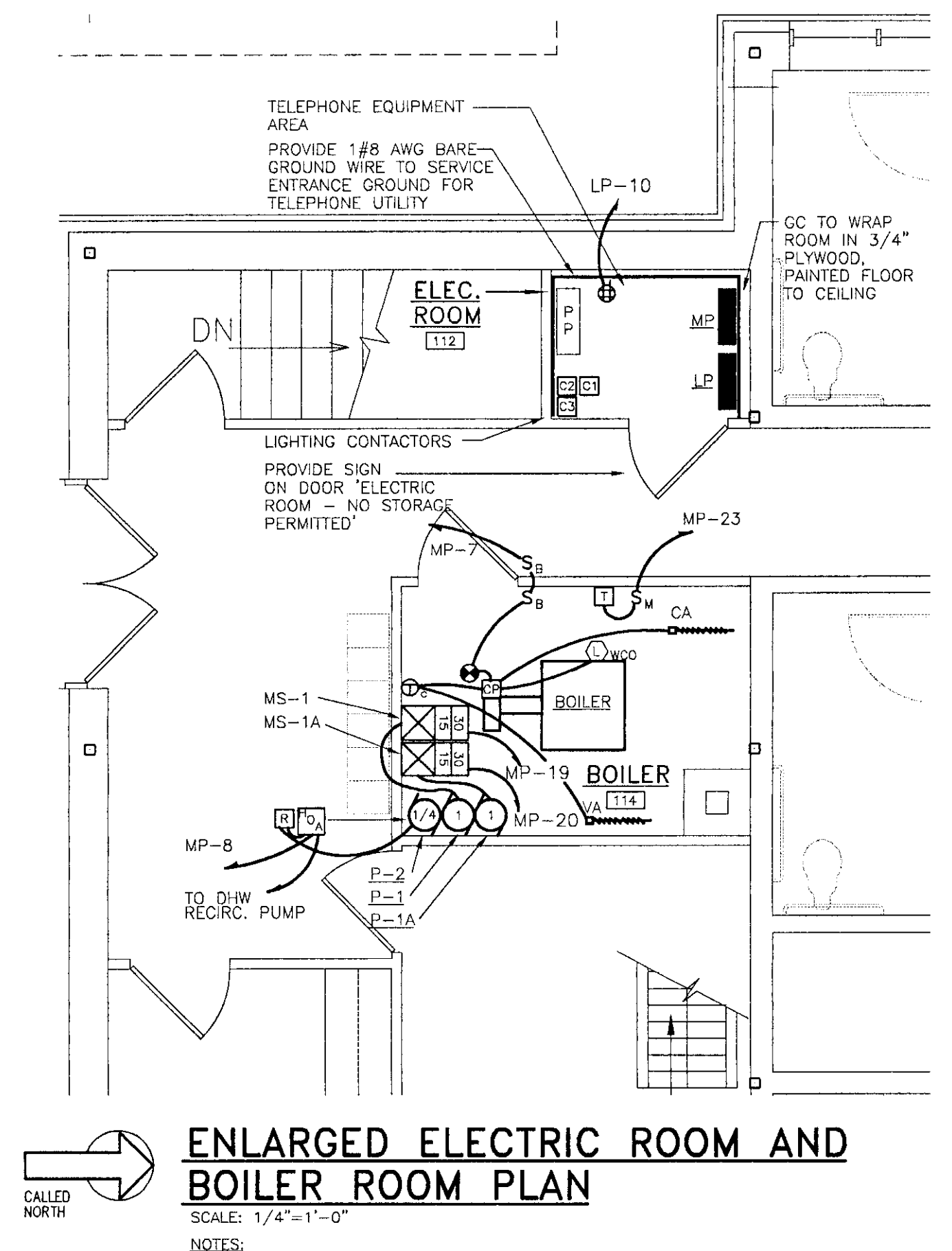
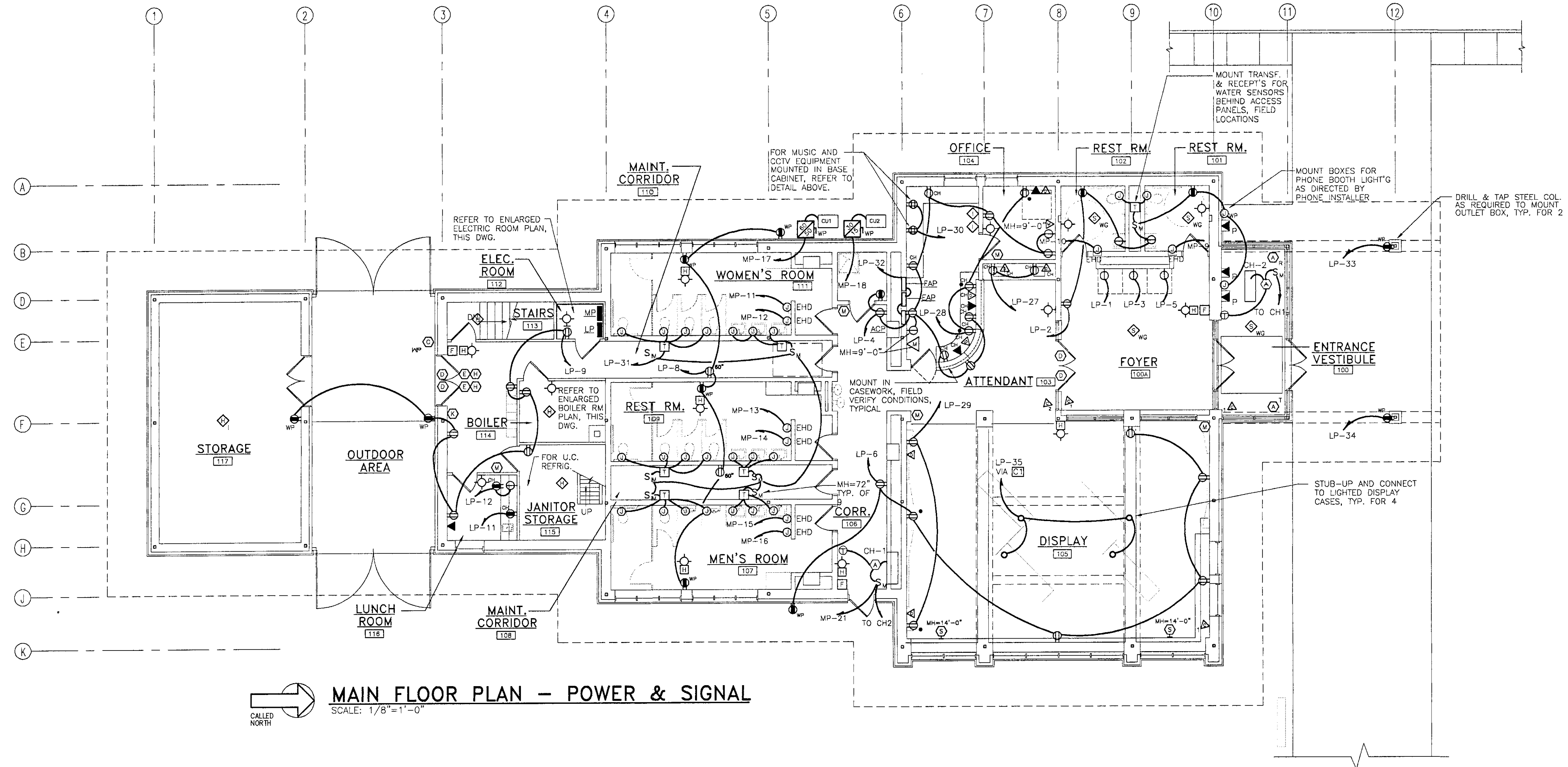


PANEL SCHEDULE									
PANEL MP		MANUF.: GE		MAIN-SIZE: 400A		VOLTS: 120/240			
		TYPE: AQ		TYPE: TJD-CIRC.BKBR.		PHASE: 1			
42	POLES	BUS: 400A(AL)		BRANCHES- CIRCUIT BREAKER		WIRE: 3			
		MOUNTING: SURFACE		TYPE: THQB,THQD		GROUND BUS, COVER			
22000	A.I.C.	SIZE: 20"Wx6"Dx42"H		MOUNTING: BOLT-ON		DOOR & LOCK			
BRANCH CIRCUITS					Equipment		Wiring		
No.	Breakers	Pole Amp.	Ph.	Con. Load			Cond.	Wire	
1	2	40	1		1.5&1	AHU-1	3/4"	2 # 8 2 #10N&G	
2	2	20	1		1@1/2	AHU-2	1/2"	3 #12 1 #12G	
3	2	40	1		2@1.5	HUR-1	3/4"	2 # 8 2 #10N&G	
4	2	50	1			WELL PUMP	1"	2 # 8 1 #10G	
5	1	20	1		1/4	EF-1, UH-3	1/2"	2 #12 1 #12G	
6	1	20	1		0.2	UH-1,2	1/2"	2 #12 1 #12G	
7, 8	1	20	1		3@1/4	BURNER, P2, RECIRC. PUMP	1/2"	2 #12 1 #12G	
9-16	1	30	1		19.2	HAND DRYERS	MC	2 #10 1 #10G	
17	2	60	1		7.4	CU-1	1"	2 # 4 1 # 8G	
18	2	20	1		2.1	CU-2	1/2"	2 #12 1 #12G	
19,20	2	20	1		2@1	P1, P1A	1/2"	3 #12 1 #12G	
21, 23	1	20	1		0.9	CH-1, SUMP PUMP, TEMP. CONTROL	1/2"	2 #12 1 #12G	
24	2	60	1			SURGE SUPPRESSOR	1"	3 # 8 1 # 8G	
25	2					SPACE			
26-29	1					SPARES			
30	2	125	1		20.0	WASTE WATER TREATMENT	2"	3 #2/0 1 # 8G	

NOTE: SUBFEED BREAKER #30 REQUIRED 4 SPACES FOR SINGLE BRANCH MOUNTING.

PANEL SCHEDULE									
PANEL LP		MANUF.: GE		MAIN-SIZE: 200A			VOLTS: 120/240		
		TYPE: AQ		TYPE: TJD-CIRC-BKBR			PHASE: 1		
42 POLES		BUS: 225A		BRANCHES- CIRCUIT BREAKER			WIRE: 3		
		MOUNTING: SURFACE		TYPE: THHGB			GROUND BUS, COVER,		
22000 A.I.C.		SIZE: 20"Wx6"Dx42"H		MOUNTING: BOLT-ON			DOOR & LOCK		
BRANCH CIRCUITS					Equipment		Wiring		
No.	Breakers Pole Amp.	Ph.	Con. Load Kw Hp.	Cond.			Wire		
1-10	1	20	1	10.4	RECEPTACLE	MC	2 #12 1 #12G		
11, 12	1	20	1	3.0	SM. APPLIANCE	MC	2 #12 1 #12G		
14	1	20	1	0.6	ATTIC LIGHTING AND RECEPTACLE	MC	2 #12 1 #12G		
13, 15	1	20	1	2.6	EXTERIOR BUILDING LIGHTING	MC	2 #12 1 #12G		
16	1	20	1	0.1	EMS	MC	2 #12 2#12G&IG		
17-24	1	20	1	8.8	LIGHTING	MC	2 #12 1#12G		
25, 26	2	20	1	5.8	EXTERIOR SITE LIGHTING	1"	2 #8 1 #10G		
27-29	1	20	1		COMPUTER OUTLETS	MC	2 #12 2#12G&IG		
30	1	20	1		MUSIC, CCTV	MC	2 #12 1 #12G		
31	1	20	1	0.6	PLUMBING FIXTURES	MC	2 #12 1 #12G		
32	1	20	1	0.2	FIRE ALARM, ENTRY ALARM, & ACCESS CONTROL PANELS	MC	2 #12 1 #12G		
33, 34	1	20	1	0.4	EXT. RECEPT.	1/2"	2 #12 1 #12G		
35	1	20	1		LIGHTED DISPLAY CASES	MC	2 #12 1 #12G		
36	2	60	1		SURGE SUPPRESSOR	1"	2 #12 1 #12G		
37	2				SPACE				
38, 39	1	20			SPARES				

- LP NOTES:
1. PROVIDE ISOLATED GROUND BUS ACCESSORY.
2. CIRCUITS LP-16 (EMS) AND LP-27 TO 29 (COMPUTERS) SHALL HAVE AN ISOLATED GROUND CONDUCTOR. MARK CONDUCTOR ACCORDINGLY.
3. PROVIDE RED LOCK-ON CLIP FOR CIRCUIT BREAKER 32.



- NOTES:
1. REFER TO SITE PLAN FOR EXACT ROUTING OF UTILITY SERVICE CONDUITS

N.B.F.
Nimtz • Berryhill • Figiel
ARCHITECTS P.C.
24 1/2 Center Street
Rutland, Vermont
0 5 7 0 1

Steven J. Banik, P.E.
STRUCTURAL ENGINEER
Cuttingsville, Vermont
0 5 7 3 8

LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.
Rutland, Vermont
0 5 7 0 1

CHARLES F. LANE
No. 4100
PROFESSIONAL ENGINEER

Dubois & King
Engineering • Planning
Development • Management
Rutland, Vermont
0 5 7 0 1

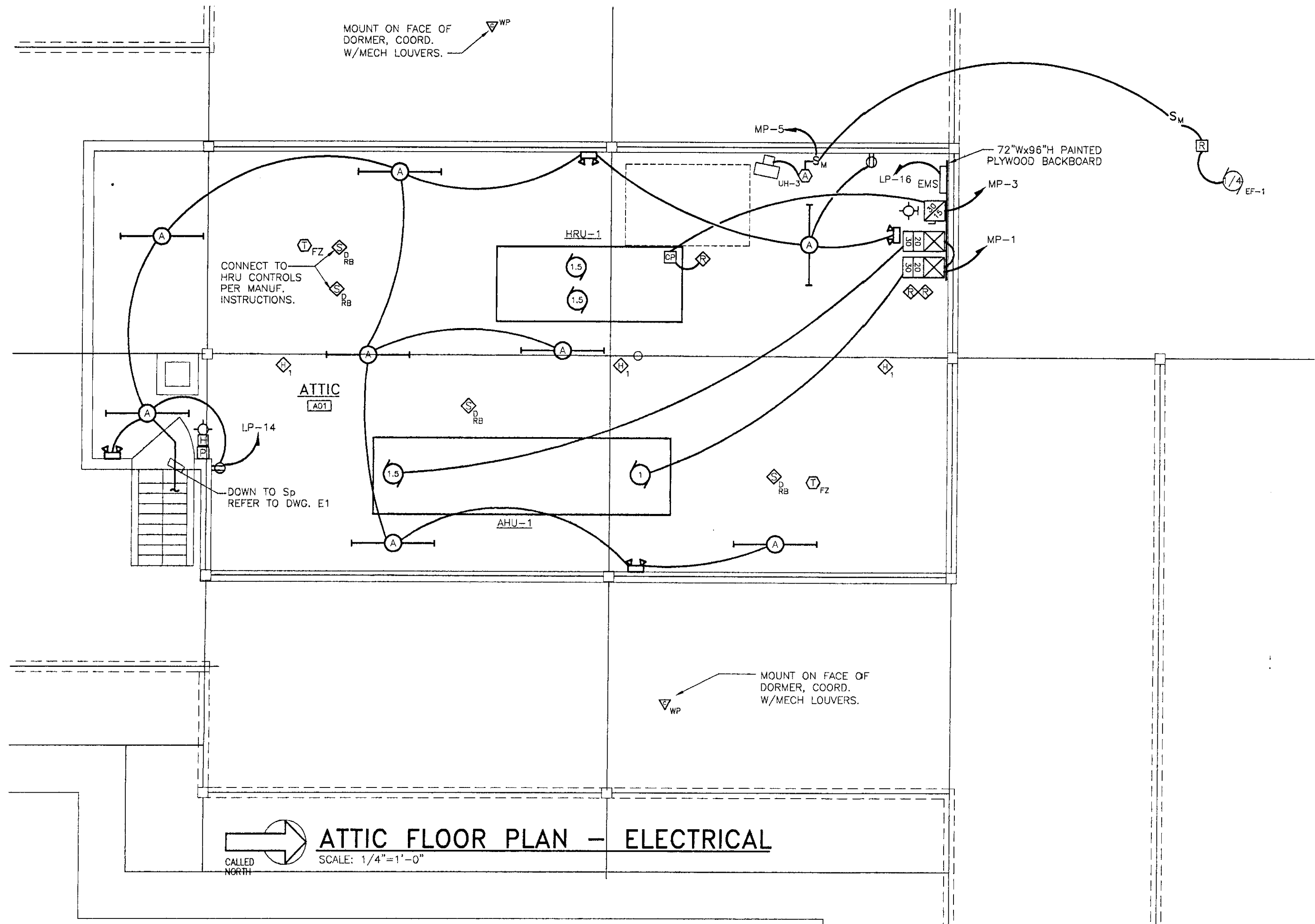
Southbound I-91
Hartford
Travel and Information Center
Hartford, Vermont

POWER & SIGNAL
PLAN-MAIN FLOOR

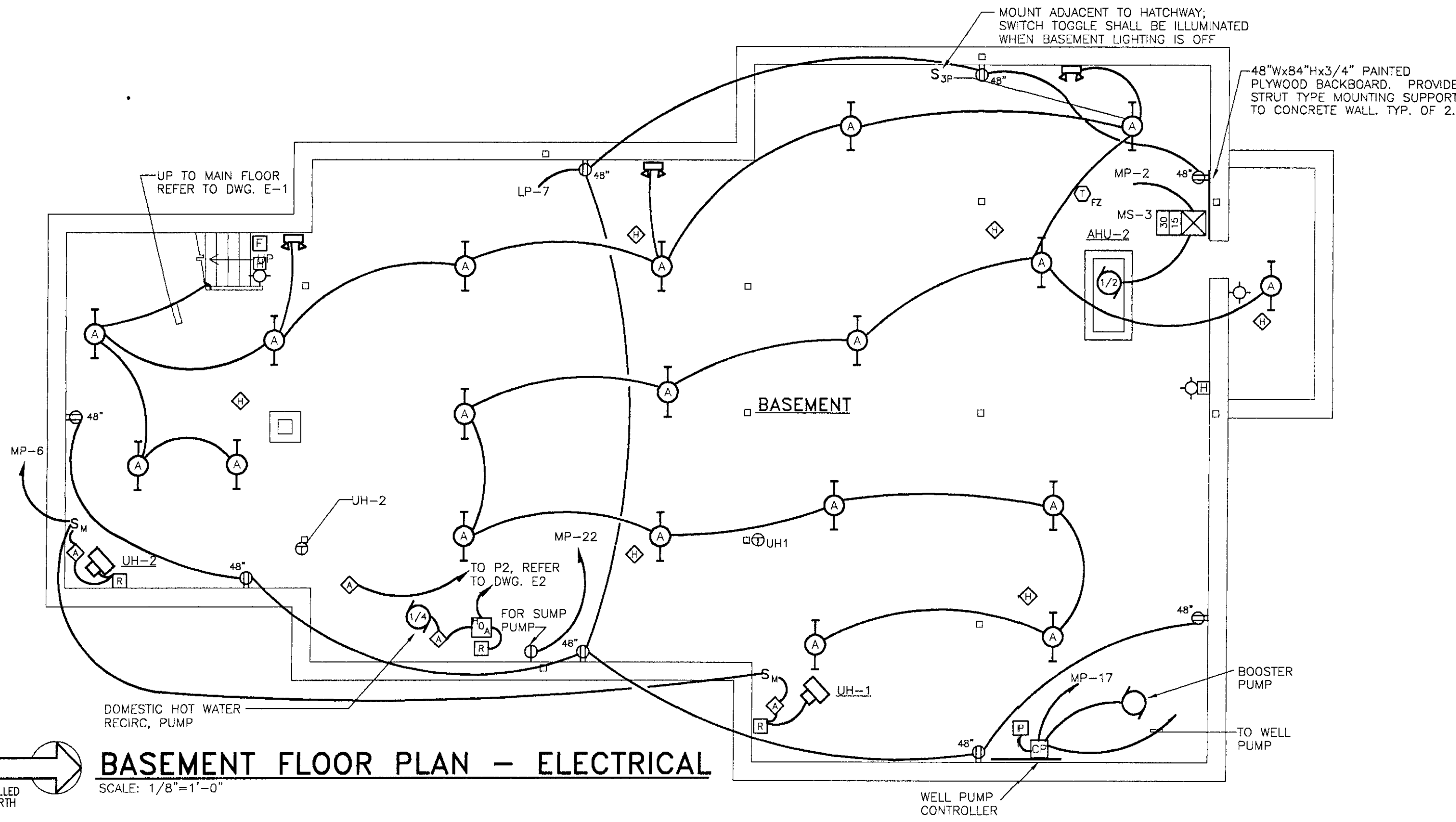
10/31/00
Date

CLIENT REVIEW
Issued For

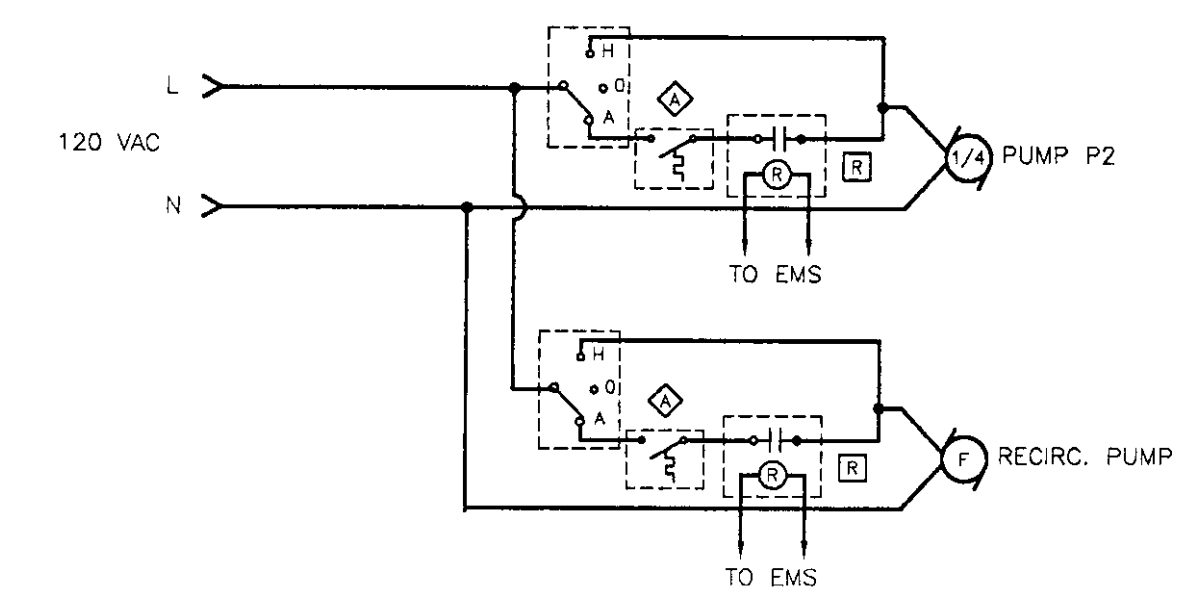
Project: **Hartford**
Project Number: **0029**
E2
Sheet # **25** Of **28**



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

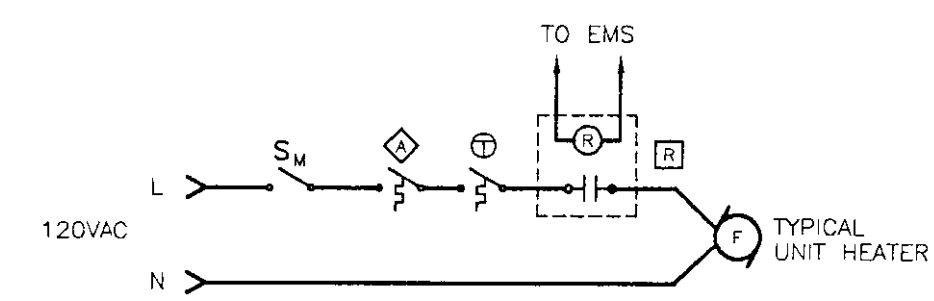


BASEMENT FLOOR PLAN - ELECTRICAL
SCALE: 1/8"=1'-0"



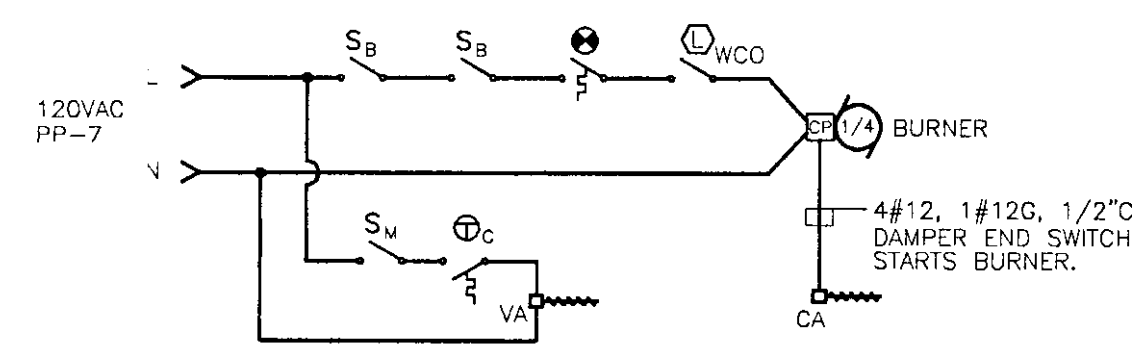
DOMESTIC HOT WATER CONTROL WIRING DIAGRAM
NO SCALE

NOTES
1. BONDING CONDUCTOR IS NOT SHOWN.



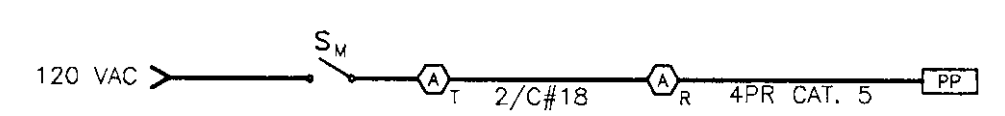
UNIT HEATER WIRING DIAGRAM
NO SCALE

NOTES
1. BONDING CONDUCTOR IS NOT SHOWN.
2. TYPICAL FOR UH-1, 2, & 3.
3. SIMILAR FOR CH-1 & 2.
4. SIMILAR FOR EF-1, EXCEPT NO AQUASTAT.

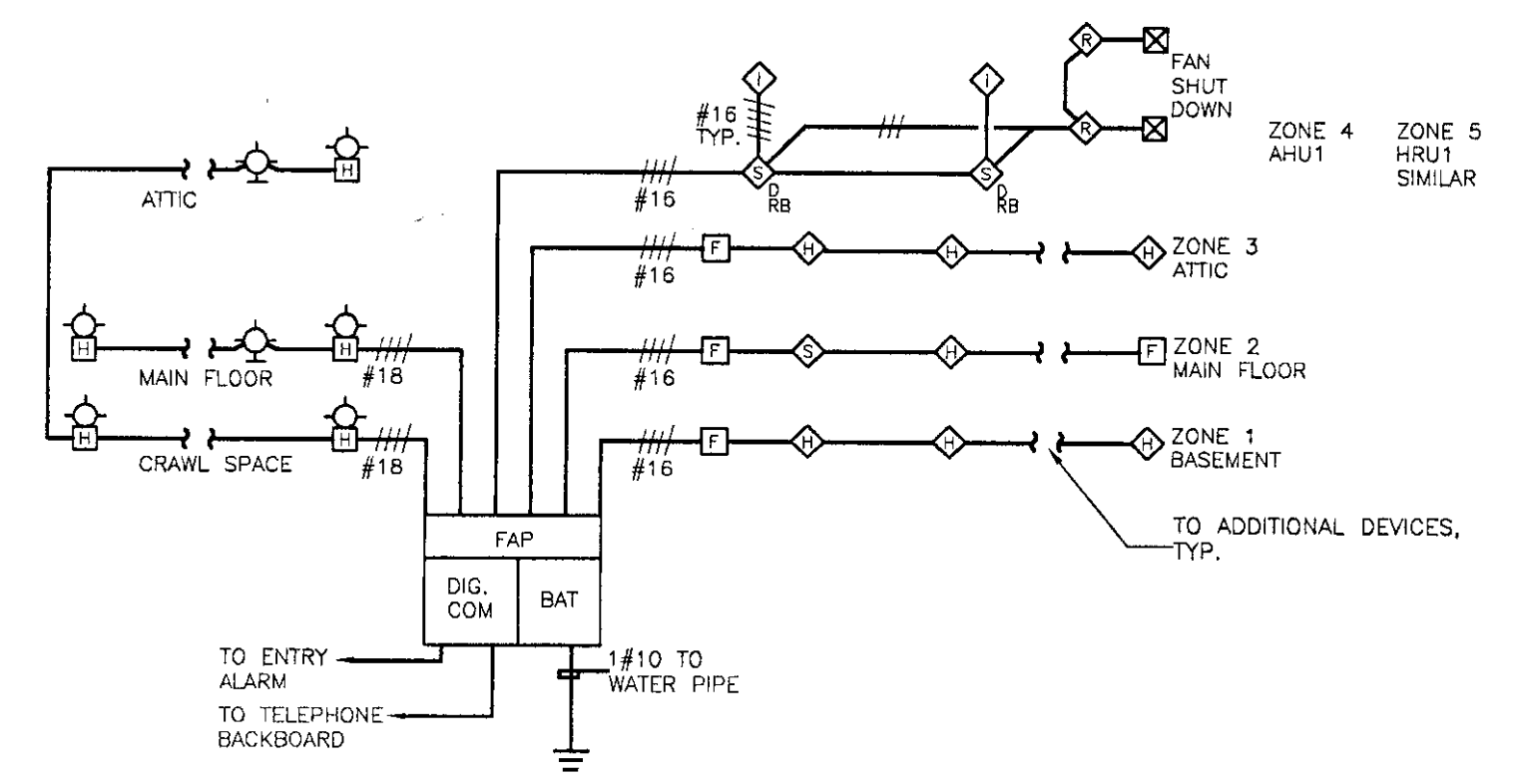


BURNER WIRING DIAGRAM
NO SCALE

NOTES
1. BONDING CONDUCTOR IS NOT SHOWN.

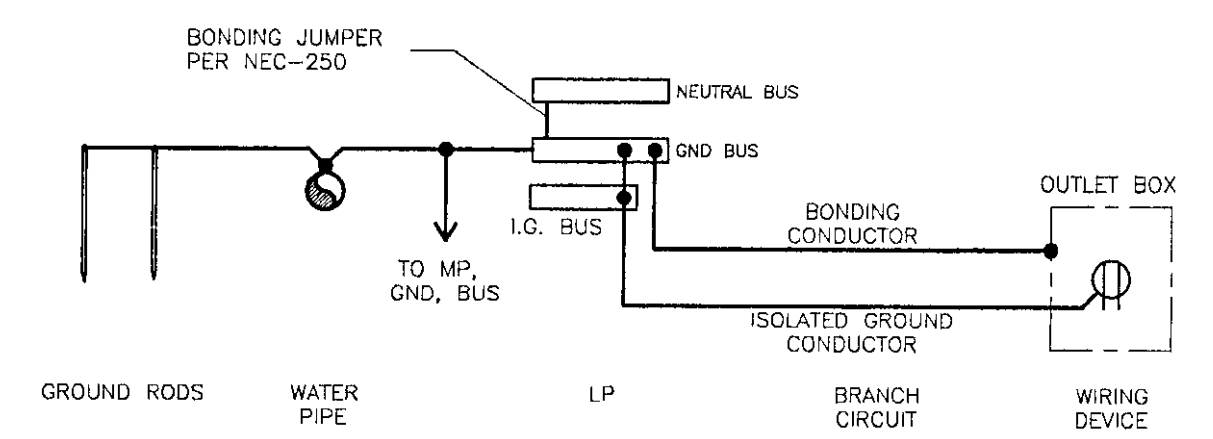


ATTENDANCE COUNTER RISER DIAGRAM
NO SCALE



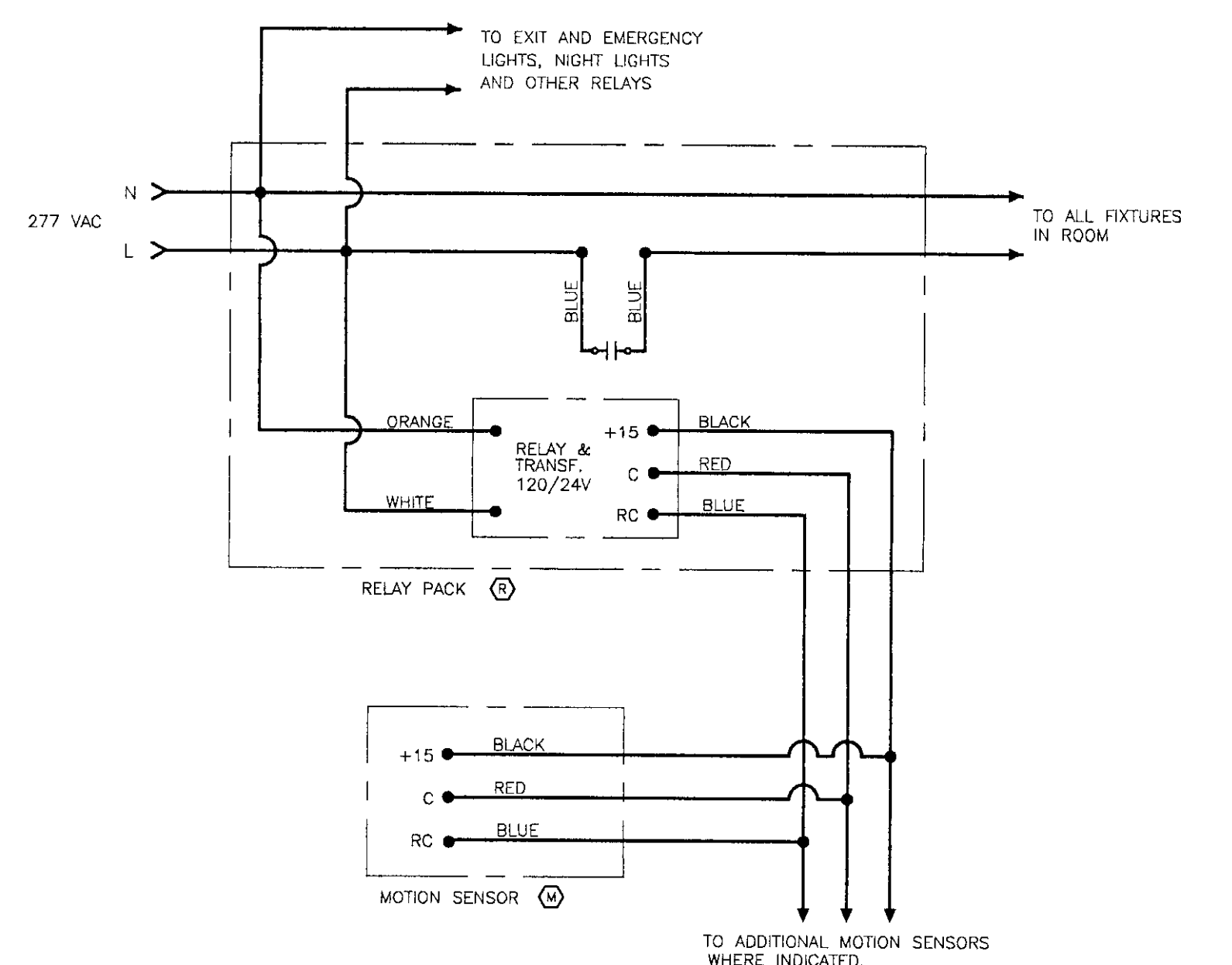
FIRE ALARM SYSTEM RISER DIAGRAM
NOT TO SCALE

NOTE:
1. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF DEVICES.



ISOLATED GROUND WIRING DETAIL
NOT TO SCALE

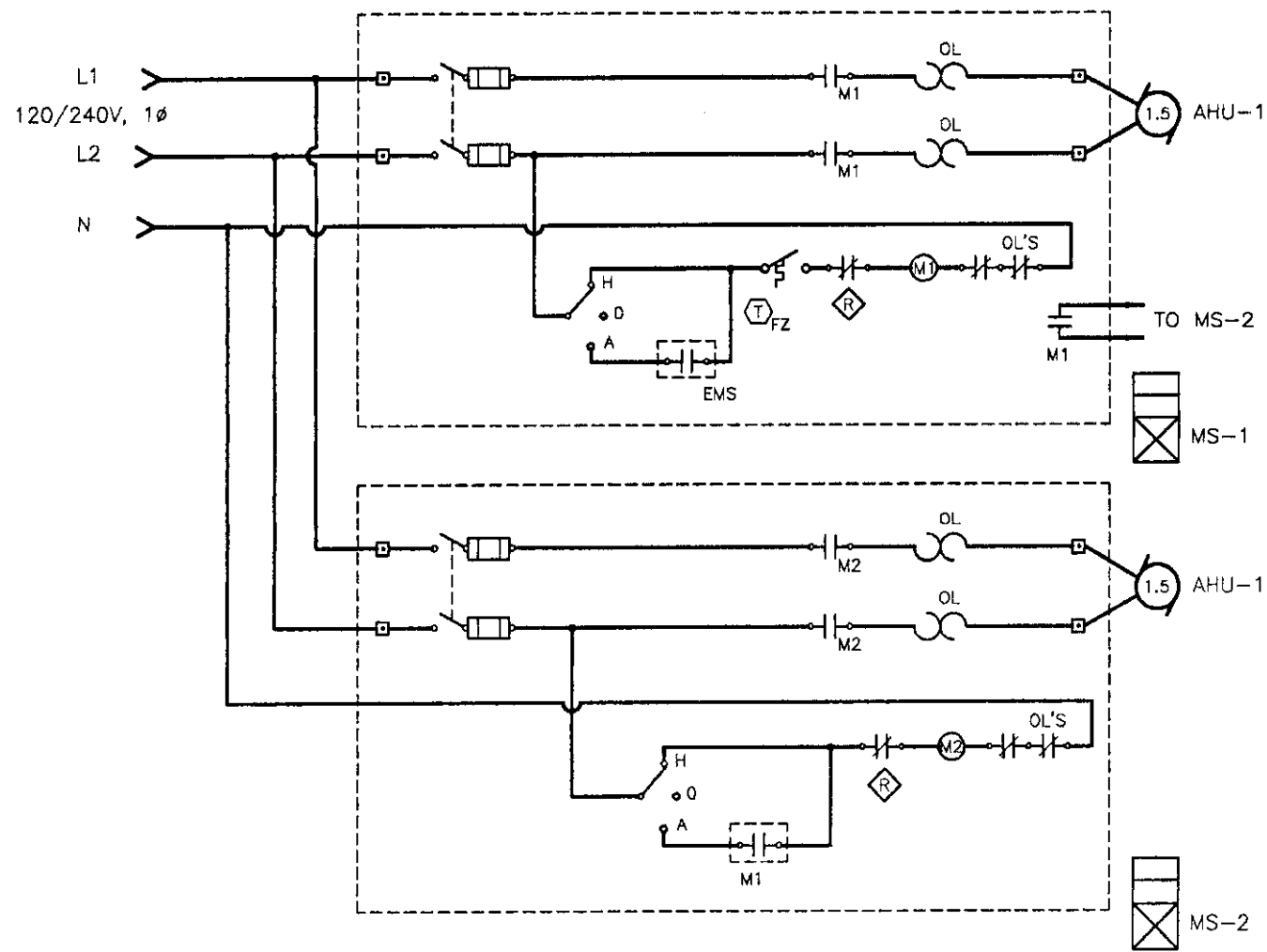
NOTE:
1. REFER TO ONE LINE DIAGRAM AND PANEL SCHEDULE FOR CONDUCTOR SIZES.



MOTION SENSOR WIRING DIAGRAM
NOT TO SCALE

NOTES
1. BONDING CONDUCTOR NOT SHOWN

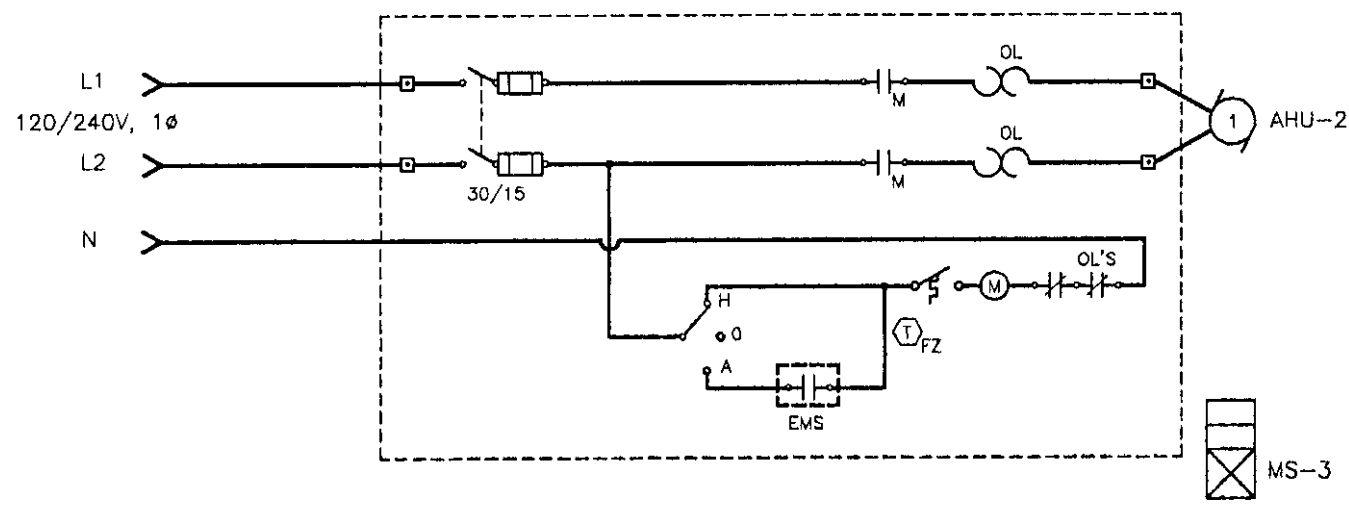
GENERAL NOTE:
COORDINATE EXACT LIGHTING FIXTURE PLACEMENT WITH MECHANICAL WORK PRIOR TO ROUGH-IN IN UTILITY SPACES. (I.E.: ATTIC AND BASEMENT)



AHU-1 CONTROL WIRING DIAGRAM

NO SCALE

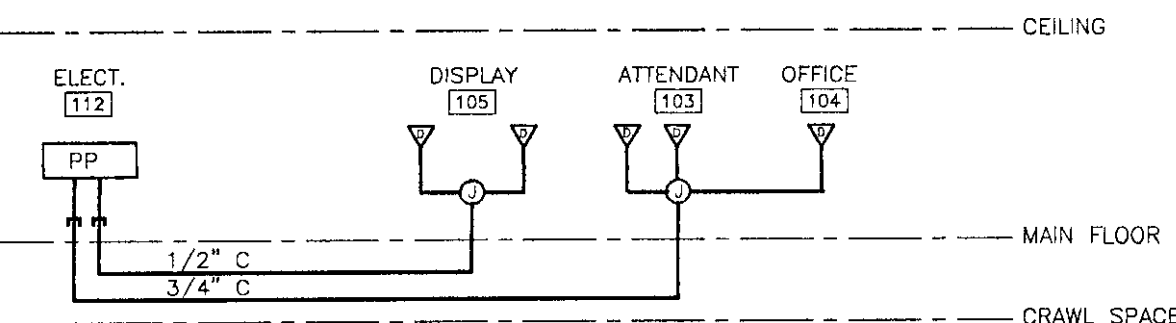
- NOTES:
1. BONDING CONDUCTOR IS NOT INDICATED.



AHU-2 CONTROL WIRING DIAGRAM

NO SCALE

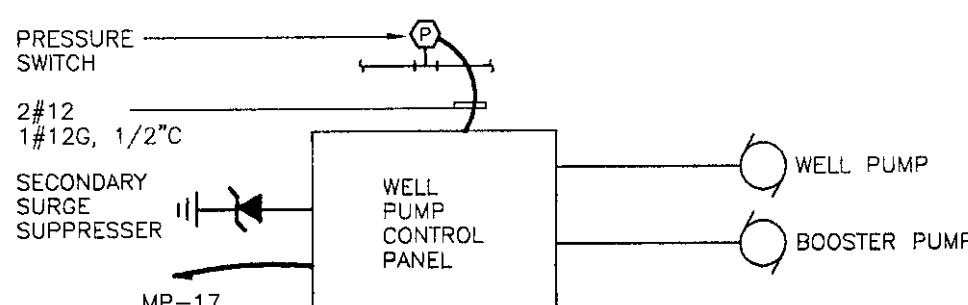
- NOTES:
1. BONDING CONDUCTOR IS NOT INDICATED.
 2. SIMILAR FOR CIRCULATOR PUMPS P1 AND P 1A EXCEPT WITHOUT FREEZESTAT.



LAN RISER DIAGRAM

NO SCALE

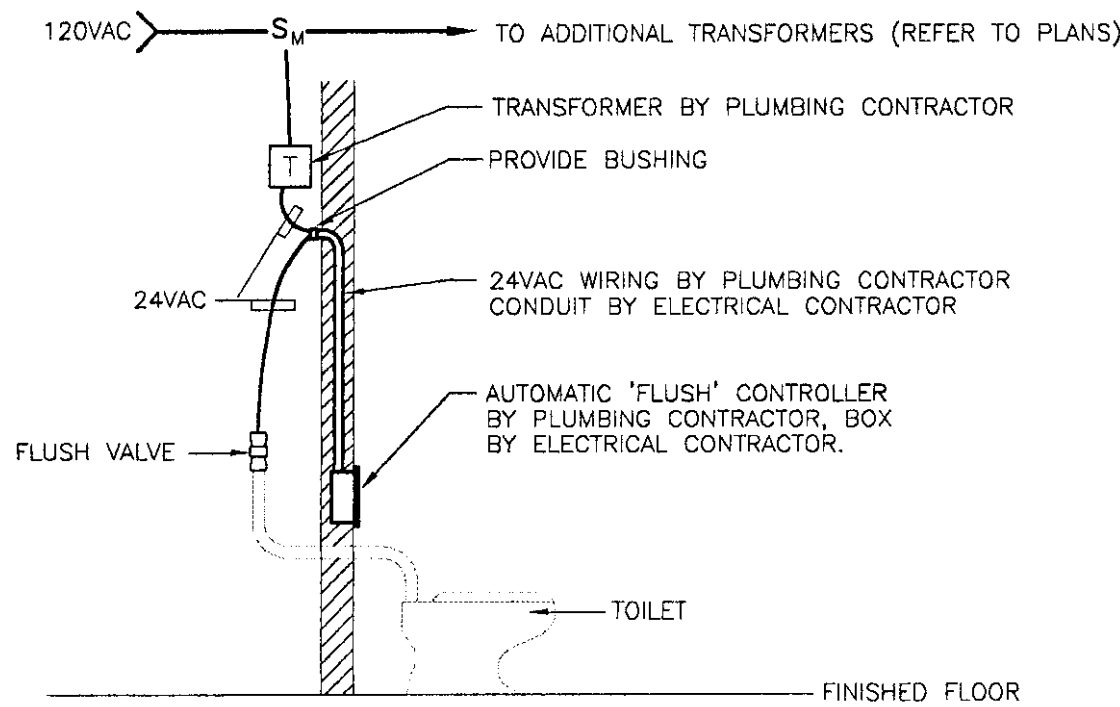
- NOTES:
1. ALL CABLES SHALL BE 4 PAIR CAT. 5. ALL OUTLETS SHALL BE 4" SQ.X1 1/2" W/SINGLE GANG RING.
 2. CONTRACTORS OPTION TO RUN CABLES IN CEILING SPACE W/O CONDUIT. PROVIDE WIDE BODY 'J' HOOKS OR 'D' RINGS FOR CABLE SUPPORT.



WELL PUMP CONTROL WIRING DIAGRAM

NO SCALE

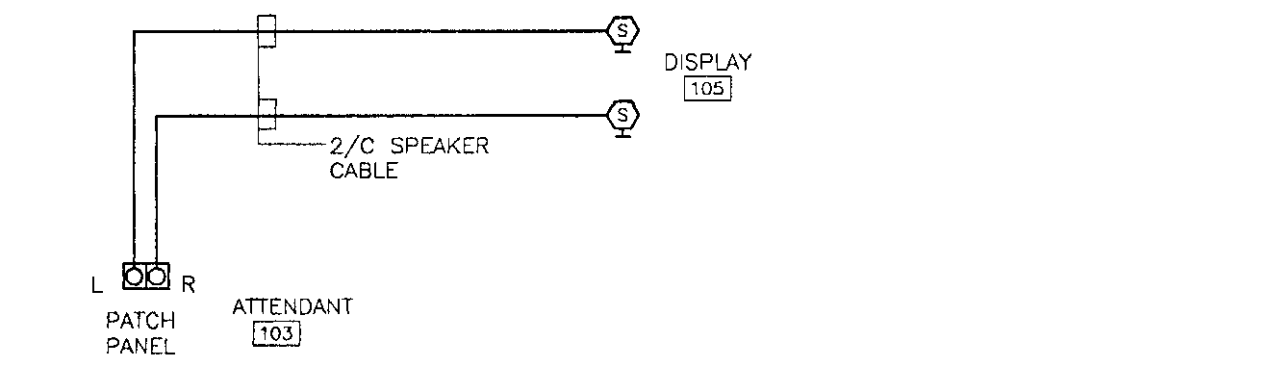
- NOTES:
1. BONDING CONDUCTOR IS NOT INDICATED.
 2. FIELD VERIFY EXACT LOCATIONS OF ALL EQUIPMENT



AUTOMATIC FLUSH VALVE CONTROL WIRING ELEVATION

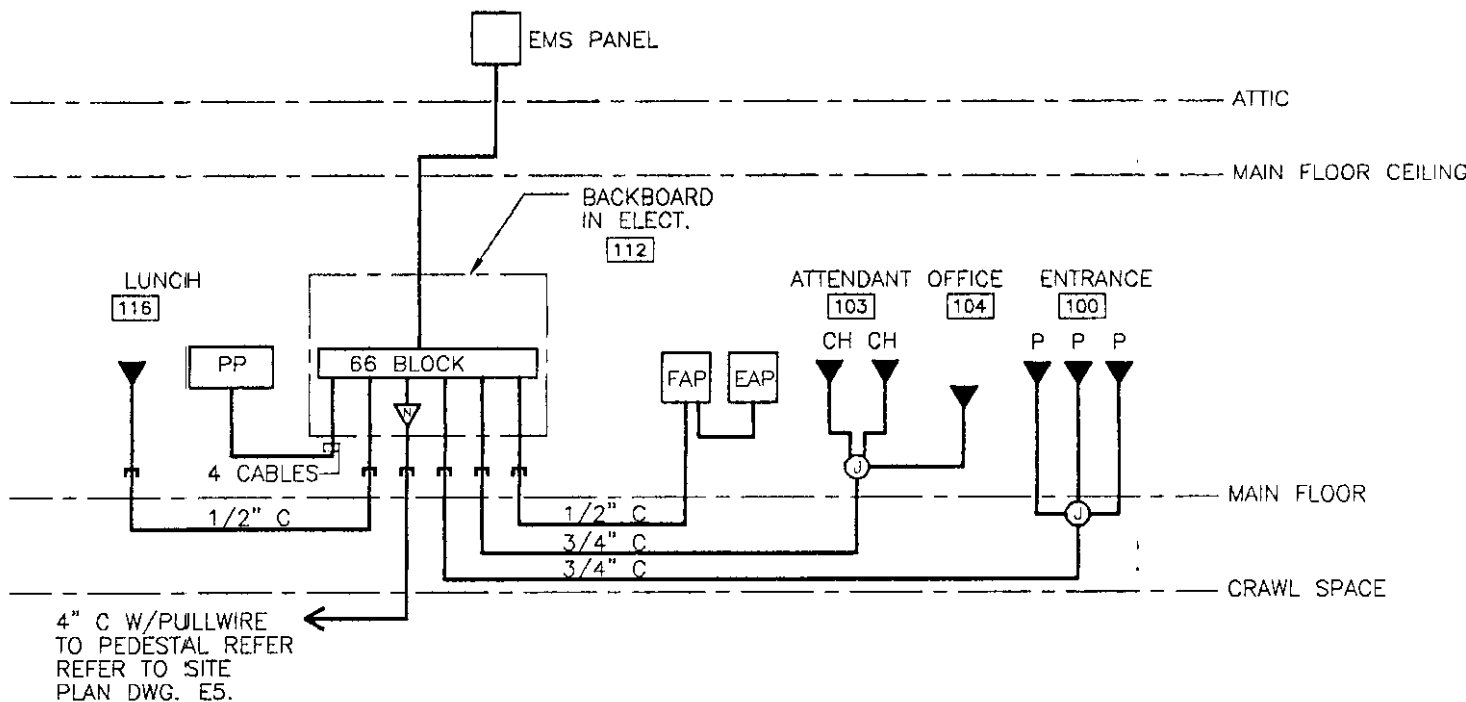
NOT TO SCALE

- NOTES:
1. BONDING CONDUCTORS ARE NOT SHOWN.
 2. TYPICAL FOR TOILETS, SIMILAR FOR LAVATORIES. REFER TO PLANS FOR LOCATIONS.
 3. COORDINATE INSTALLATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.



MUSIC SYSTEM RISER DIAGRAM

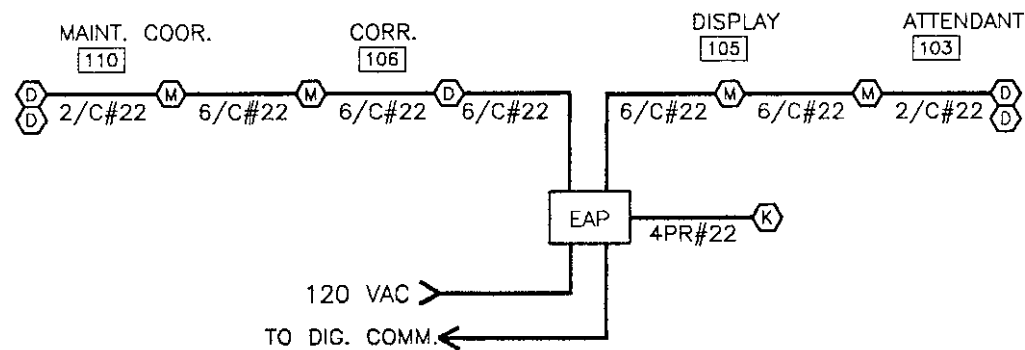
NO SCALE



TELEPHONE RISER DIAGRAM

NO SCALE

- NOTES:
1. ALL CABLES SHALL BE 4 PAIR CAT. 5.
 2. CONTRACTORS OPTION TO RUN CABLES THROUGH CEILING SPACE W/O CONDUIT. PROVIDE WIDE BODY 'J' HOOKS OR 'D' RINGS FOR CABLE SUPPORT.



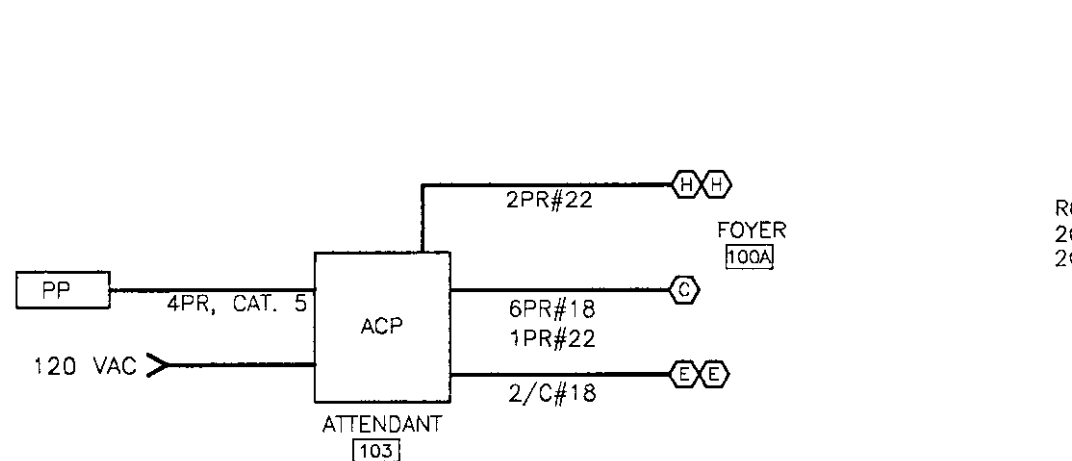
ENTRY ALARM RISER DIAGRAM

NO SCALE

ELECTRICAL LEGEND & ABBREVIATIONS

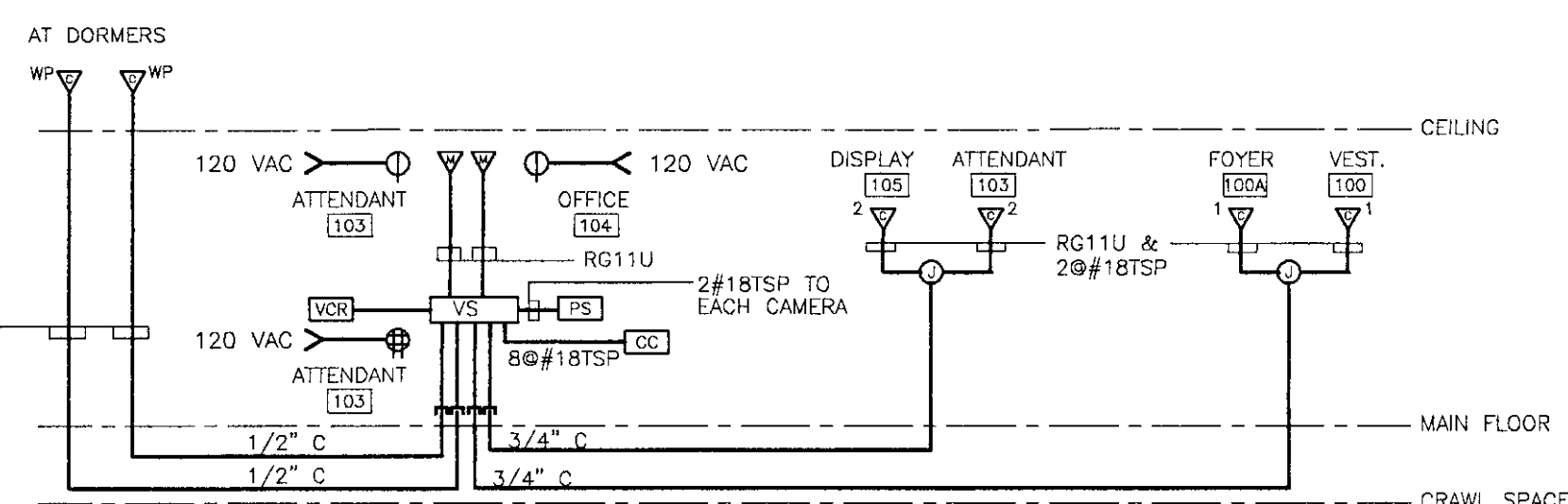
	RECESSED FLUORESCENT FIXTURE, TYPE AS INDICATED. REFER TO SCHEDULE AND SPECIFICATIONS. SUBSCRIPTS: o = SWITCHGROUP, NL = UNSWITCHED NIGHT LIGHT.
	SURFACE MOUNTED FLUORESCENT FIXTURE, TYPE AS INDICATED, REFER TO SCHEDULE AND SPECIFICATIONS. SUBSCRIPTS: o = SWITCHGROUP, NL = UNSWITCHED NIGHT LIGHT.
	WALL MOUNTED FLUORESCENT FIXTURE, TYPE AS INDICATED, REFER TO SCHEDULE AND SPECIFICATIONS. SUBSCRIPTS: o = SWITCHGROUP, NL = UNSWITCHED NIGHT LIGHT.
	CEILING MOUNTED INCANDESCENT, COMPACT FLUORESCENT OR H.I.D. FIXTURE, TYPE AS INDICATED. REFER TO SCHEDULE AND SPECIFICATIONS. SUBSCRIPTS: o = SWITCHGROUP, NL = UNSWITCHED NIGHT LIGHT.
	WALL MOUNTED, INCANDESCENT, COMPACT FLUORESCENT OR H.I.D. FIXTURE REFER TO SCHEDULE AND SPECIFICATIONS. TYPE AS INDICATED. SUBSCRIPTS: o = SWITCHGROUP, NL = UNSWITCHED NIGHT LIGHT.
	POLE MOUNTED H.I.D. FIXTURE, REFER TO SCHEDULE AND/OR SPECIFICATIONS. TYPE AS INDICATED. SUBSCRIPTS: o = SWITCHGROUP, NL = UNSWITCHED NIGHT LIGHT.
	WALL MOUNTED EXIT LIGHT, BACK MOUNTED ON WALL. MH=8'-0" U.O.N. SUBSCRIPTS: T = TOP MOUNTED, E = END MOUNTED, 2 = DOUBLE FACE
	WALL MOUNTED REMOTE EMERGENCY LIGHTING HEADS, TYPE (1) AS INDICATED. M.H. = 8' - 0"
	SINGLE POLE SWITCH, MH = 4'-0" U.O.N., SUBSCRIPTS: 2 = 2 POLE, 3 = WAY, 4 = 4 WAY, K = KEY OPERATED, D = DIMMER, V = VARIABLE SPEED, o = SWITCHGROUP
	LIGHTING CONTROLLER FOR DAYLIGHT DIMMING SYSTEM, MH = 6'-0" TO TOP SUBSCRIPTS: 1 = SYSTEM NUMBER, REFER TO SPECIFICATIONS.
	DAYLIGHT SENSOR, SUBSCRIPTS: 1 = SYSTEM NUMBER, REFER TO SPECIFICATIONS.
	OCCUPANCY SENSOR, SUBSCRIPTS: 1 = TYPE, REFER TO SPECIFICATIONS.
	LOW VOLTAGE LIGHTING RELAY, REFER TO SPECIFICATIONS.
	DUPLEX RECEPTACLE, MH = 2'-0" U.O.N.
	DOUBLE DUPLEX RECEPTACLE, MH = 2'-0" U.O.N.
	DUPLEX RECEPTACLE WITH ISOLATED GROUND AND SURGE SUPPRESSOR, MH = 2'-0" U.O.N.
	DUPLEX RECEPTACLE WITH 5 MA G.F.C.I., MH = 2'-0" U.O.N.
	SINGLE RECEPTACLE, MH = 2'-0" U.O.N., SUBSCRIPTS: EWC = ELECTRIC WATER COOLER
	BRANCH CIRCUIT WIRING.
	LOW VOLTAGE WIRING.
	DC WIRING FOR EMERGENCY LIGHTING SYSTEM
	HOME RUN TO PANELBOARD AND CIRCUIT BREAKER INDICATED.
	PANELBOARD WITH DESIGNATION, 120/208 VOLTS, REFER TO SCHEDULE. MH = 6'-0" TO TOP.
	SURGE SUPPRESSOR
	UTILITY METER, MH = 5'0"
	MOTOR WITH HORSEPOWER DESIGNATED, F= FRACTIONAL HORSEPOWER LESS THAT 1/8 HP.
	PRE-WIRED CONTROL PACKAGE FURNISHED WITH EQUIPMENT.
	TOGGLE TYPE MOTOR DISCONNECT SWITCH, HP RATED, MH = 4'-6" U.O.N. OR ON EQUIPMENT.
	BURNER EMERGENCY SWITCH, REFER TO SPECIFICATIONS, MH = 4'-6" U.O.N.
	SELF CONTAINED CONTROL DEVICE, L = LEVEL, P = PRESSURE, T = TEMPERATURE SUBSCRIPTS: LWO = LOW WATER CUTOFF SWITCH, H = HIGH, L = LOW, O = OPERATING, FZ = FREEZE STAT.
	DRY TYPE TRANSFORMER FOR TEMPERATURE CONTROL POWER, FURNISHED BY MECH. CONTR. 120 VAC WIRING BY ELECT. CONTR.
	LOW VOLTAGE TEMPERATURE CONTROL RELAY, PROVIDED BY MECHANICAL CONTRACTOR. 120 VAC WIRING BY ELECTRICAL CONTRACTOR
	UNIT HEATER, PROVIDED BY MECH. CONTR., WIRED BY ELECT. CONTR.
	CABINET HEATER, PROVIDED BY MECH. CONTR. WIRED BY ELECT. CONTR.
	THERMOSTAT, PROVIDED BY MECH. CONTR. 120 VAC WIRING BY ELECT. CONTR.
	AQUASTAT, PROVIDED BY MECH. CONTR. WIRED BY ELECT. CONTR.
	FIR-O-MATIC SWITCH, CEILING MOUNTED.
	DISCONNECT SWITCH, MH = 6' - 0" OR ON EQUIPMENT, 60/40 = FRAME/FUSE SIZE, N = NOT FUSED.
	MOTORIZED DAMPER, PROVIDED BY MECH. CONTR. WIRED BY ELECT. CONTR. SUBSCRIPTS: CA = COMBUSTION AIR, VA = VENTILATION AIR.
	MOTOR STARTER, MH = 5'-0" OR ON EQUIPMENT. SUBSCRIPTS: VFD = VARIABLE FREQUENCY DRIVE
	COMBINATION MAGNETIC STARTER, MH = 6' - 0" OR ON EQUIPMENT, 60/40 = FRAME/FUSE SIZE, N = NOT FUSED.
	HAND/OFF/AUTO SWITCH. MH = 4'-6". U.O.N.

	SPEAKER, WALL MOUNTED. MH = 8'-0", U.O.N., SUBSCRIPTS: 1 = TYPE
	FIRE ALARM MANUAL PULL STATION, MH = 48" = U.O.N.
	FIRE ALARM SMOKE DETECTOR. SUBSCRIPTS: D= DUCT MOUNTED,
	FIRE ALARM HEAT DETECTOR, 130' ROR, SUBSCRIPTS: 1=135' FIXED, 2=200' FIXED.
	REMOTE INDICATOR AND RESET SWITCH FOR SMOKE DETECTOR, MH = 4'-0" U.O.N.
	FIRE ALARM COMBINATION HORN AND STROBE LIGHT, MH = 7'-0" TO BOTTOM, U.O.N., NUMBER INDICATES CANDLEPOWER OF STROBE.
	FIRE ALARM STROBE LIGHT, MH = 7'-0" TO BOTTOM, U.O.N., NUMBER INDICATES CANDLEPOWER OF STROBE.
	FIRE ALARM SYSTEM INPUT MODULE
	FIRE ALARM SYSTEM OUTPUT MODULE
	SPRINKLER SYSTEM FLOW SWITCH
	SPRINKLER SYSTEM SUPERVISORY TAMPER SWITCH
	SPRINKLER SYSTEM SUPERVISORY PRESSURE SWITCH. SUBSCRIPTS: H = HIGH, L = LOW
	FIRE ALARM RELAY
	ENTRY ALARM MOTION SENSOR, WALL MOUNT AT CEILING.
	ENTRY ALARM KEYPAD. MH = 4'-0"
	ENTRY ALARM DOOR CONTACT. MOUNT IN HEAD FRAME ON STRIKE SIDE OF DOOR.
	ENTRY ALARM CONTROL PANEL
	ACCESS CONTROL CARD READER, M.H. = 4'-0".
	ELECTRIC DOOR STRIKE
	ACCESS CONTROL DOOR STATUS SENSOR.
	ACCESS CONTROL SYSTEM CONTROL PANEL
	CCTV CAMERA OUTLET, TYPE AS INDICATED. REFER TO SPECIFICATIONS.
	CCTV MONITOR, CEILING MOUNTED.
	CCTV CONTROL CONSOLE, DESK MOUNTED.
	VIDEO SWITCH. DESK MOUNTED
	VIDEO RECORDER. DESK MOUNTED
	CCTV CAMERA POWER SUPPLY, DESK MOUNTED
	ATTENDANCE COUNTER OUTLET. SUBSCRIPTS: T=TRANSMITTER MH=2'-0", R=RECEIVER MH=2'-0", MH=4'-6".
	TELEPHONE OUTLET, MH = 2'-0" U.O.N., SUBSCRIPT: W = WALL MOUNTED AT 4'-6".
	P = PAY PHONE MOUNTED AT 4'
	COMBINATION TELEPHONE/DATA OUTLET, MH = 2'-0" U.O.N., SUBSCRIPT: W = WALL MOUNTED AT 4'-6".
	DATA OUTLET, MH = 2'-0" U.O.N., SUBSCRIPT.
	PATCH PANEL, MH=4'-6"
	TIME CLOCK, MH = 5' - 0" SUBSCRIPTS: 1 = TYPE
	CONTRACTOR, MH = 5' - 0"
	PHOTOCELL, MH = 10'-0", SUBSCRIPTS: 1 = TYPE
	MOUNTING HEIGHT TO CENTER OF OUTLET ABOVE FINISHED FLOOR OR GRADE.
	COUNTER HEIGHT MOUNTING - 6" ABOVE BACKSPLASH.
	UNLESS OTHERWISE NOTED
	WEATHERPROOF, N.E.M.A. 3R, MINIMUM.
	ELECTRIC HAND DRYER
	ENERGY MANAGEMENT SYSTEM (DDC TEMPERATURE CONTROLS)
	TYPICAL
	TWISTED, SHIELDED PAIR
	UNDERGROUND PRIMARY ELECTRIC
	UNDERGROUND ELECTRIC SERVICE
	UNDERGROUND TELEPHONE
	UNDERGROUND BRANCH CIRCUIT
	OVERHEAD PRIMARY
	OVERHEAD SECONDARY
	OVERHEAD TELEPHONE



ACCESS CONTROL SYSTEM WIRING DIAGRAM

NO SCALE



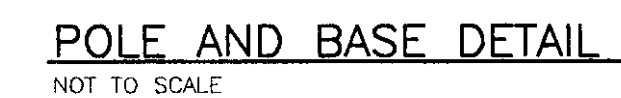
CCTV RISER DIAGRAM

NO SCALE

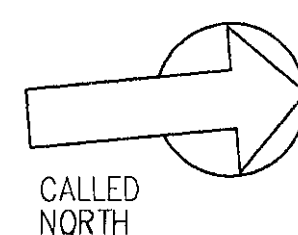
- NOTES:
1. CONTRACTORS OPTION TO RUN CABLES THROUGH CEILING SPACE W/O CONDUIT. PROVIDE WIDE BODY 'J' HOOKS OR 'D' RINGS FOR CABLE SUPPORT.



- ① DISCONNECT AND REMOVE EXISTING LIGHT POLES. REMOVE ALL ASSOCIATED WIRING BACK TO SOURCE. COORDINATE WITH G.C. FOR REMOVAL OF EXISTING BASES.
- ② DISCONNECT AND REMOVE BACK TO SOURCE ALL 120VAC AND TELEPHONE WIRING SERVING PUBLIC TELEPHONE. COORDINATE REMOVAL OF TELEPHONE AND KIOSK WITH TELEPHONE UTILITY.
- ③ COORDINATE WITH POWER AND TELEPHONE UTILITIES FOR DISCONNECTION OF THEIR SERVICES WIRING TO BUILDING.
- ④ COORDINATE WITH POWER AND TELEPHONE UTILITIES FOR REMOVAL OF EXISTING OVERHEAD UTILITY LINE, ASSOCIATED POLES AND HARDWARE. REFER TO UNDERGROUND UTILITY DUCTS INDICATED ON SITE PLANS AND ONE-LINE DIAGRAM AND TELEPHONE SYSTEM RISER DIAGRAM FOR NEW WORK.
- ⑤ DISCONNECT AND REMOVE EXISTING WIRING SERVING WELLHEAD BACK TO SOURCE. PROVIDE NEW POWER WIRING FROM EXISTING WELLHEAD TO NEW BUILDING, SIZE AND TYPE TO MATCH EXISTING. FIELD VERIFY CONDITIONS. REFER TO DWG. E2 AND E4 FOR CONNECTIONS.
- ⑥ PROVIDE FIBERGLASS HANDHOLES FLUSH WITH GRADE.



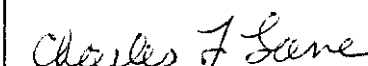
- NOTES
1. SHOWN FOR TYPE Q, SIMILAR FOR TYPE P, EXCEPT 12" DIAMETER OVERALL.



SCALE: 1"=40'-0"

Nimtze • Berryhill • Figiel
ARCHITECTS P.C.
24 1/2 Center Street
Rutland, Vermont
05701

LANE ASSOCIATES
CONSULTING ENGINEERS, P.C.
Rutland, Vermont
05701



Southbound I-91
Hartford
Travel and Information Center
Hartford, Vermont

Sheet Title

et # 28 Of 28