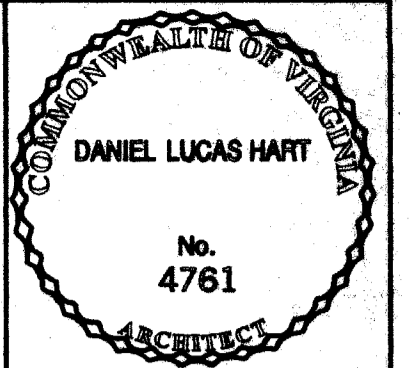


SOUTHPOINT SHOWPLACE
for
CDB Theaters Inc.
Fredericksburg, Virginia

DANIEL LUCAS HART, AIA, ARCHITECT
AUGUST 1996
Revised: 2-13-97

Drawing Index

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P-1	Plumbing Plan
M-1	Main Floor HVAC Plan
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E-7	Electric & Gas Roof Plan



Daniel Lucas Hart, AIA, Architect
 P.O. Box 1490
 Lewisburg, West Virginia 24901
 (304) 645-3057

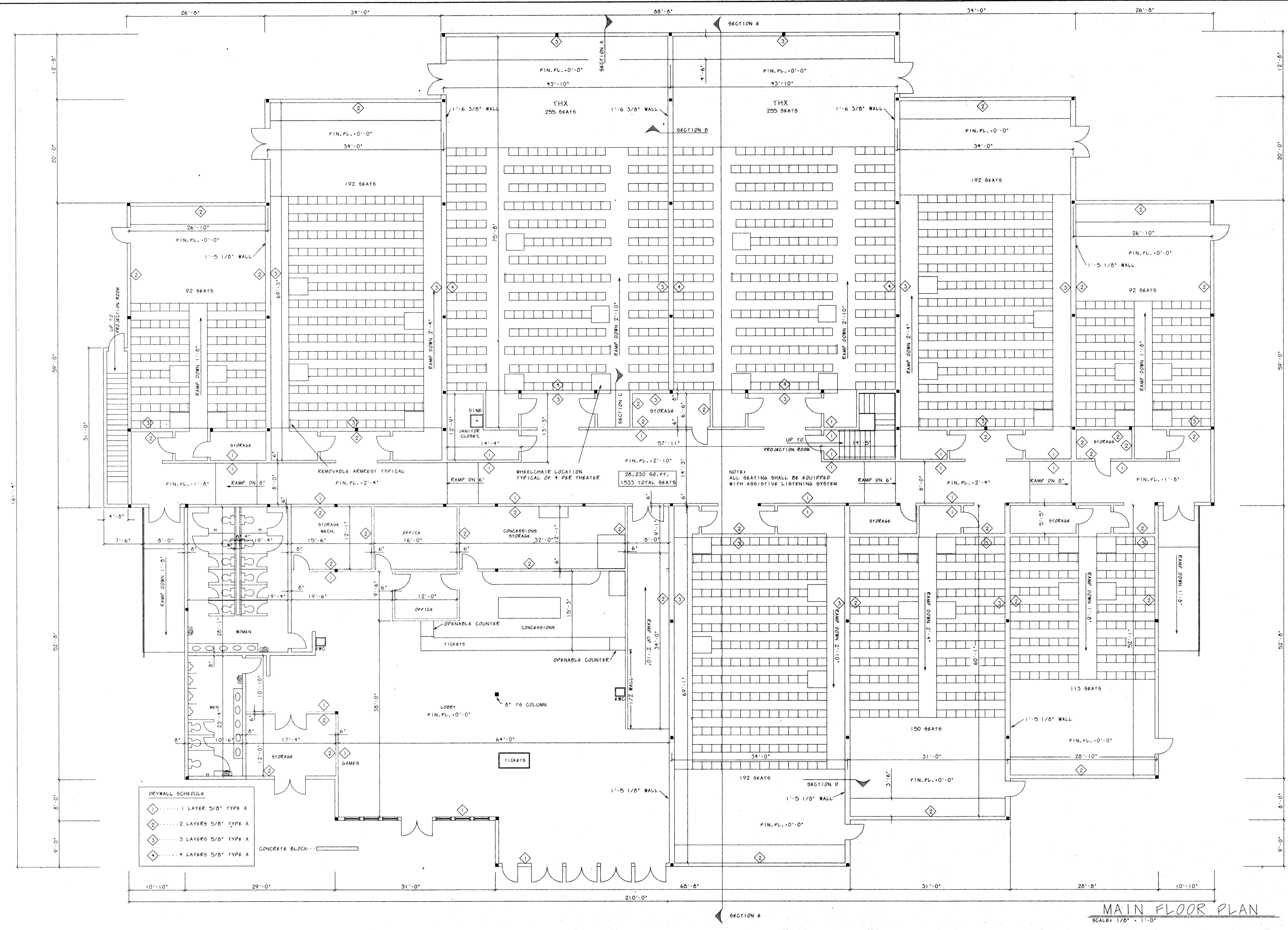
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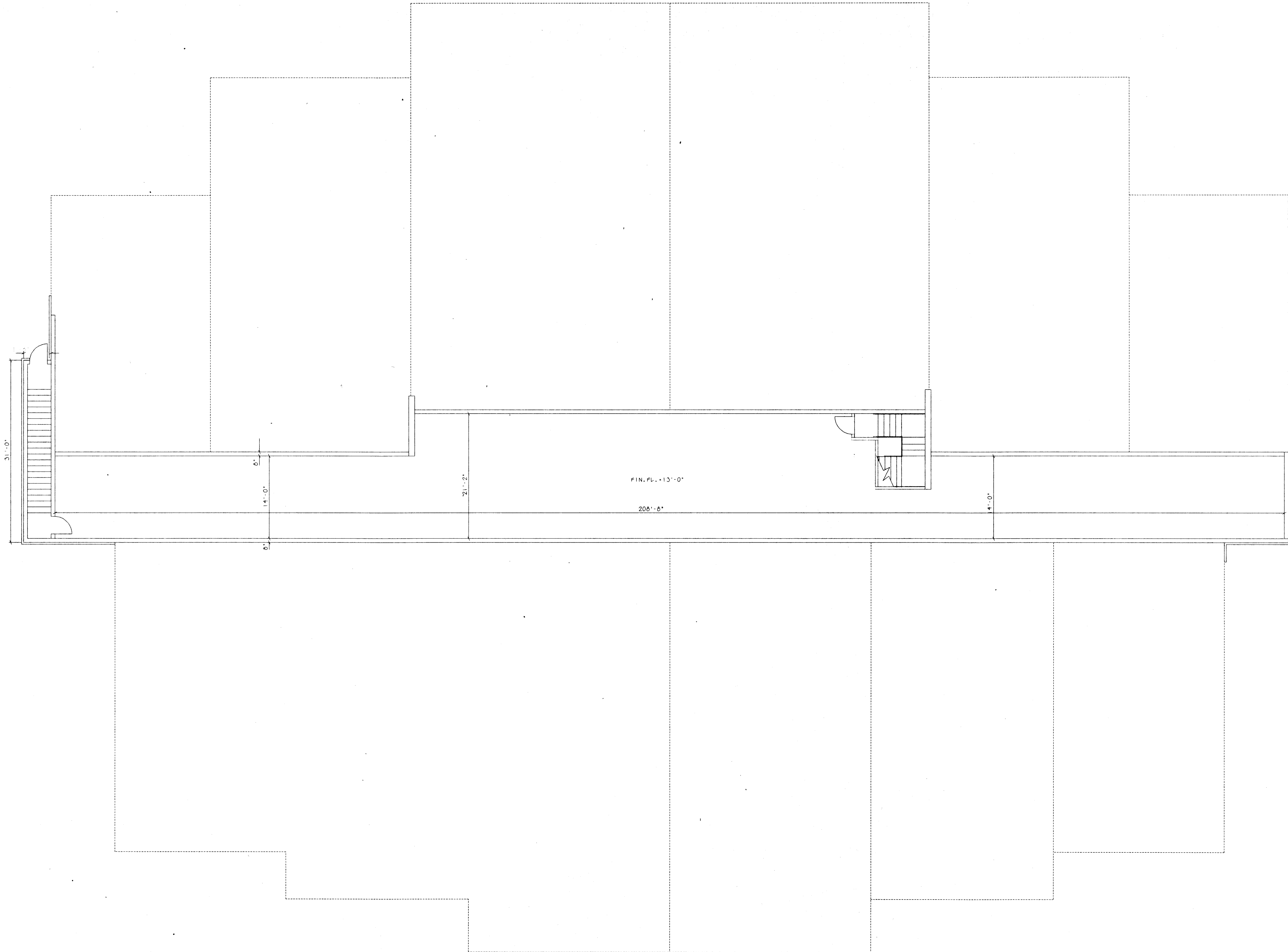
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 for
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 Fredericksburg, Virginia

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 02-15-97

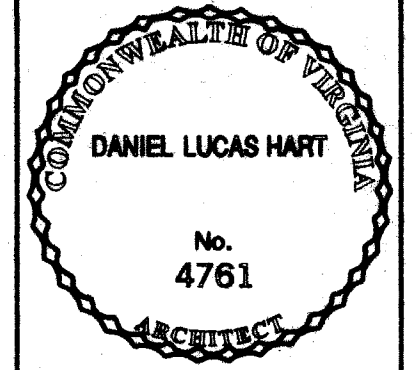
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A-1
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PROJECTION ROOM FLOOR PLAN
 SCALE: 1/8" = 1'-0"



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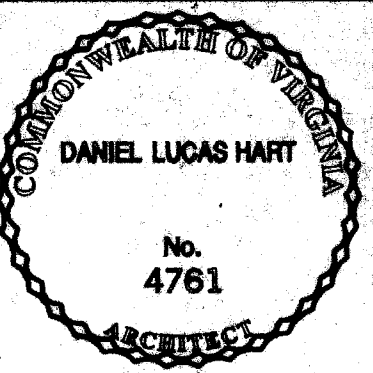
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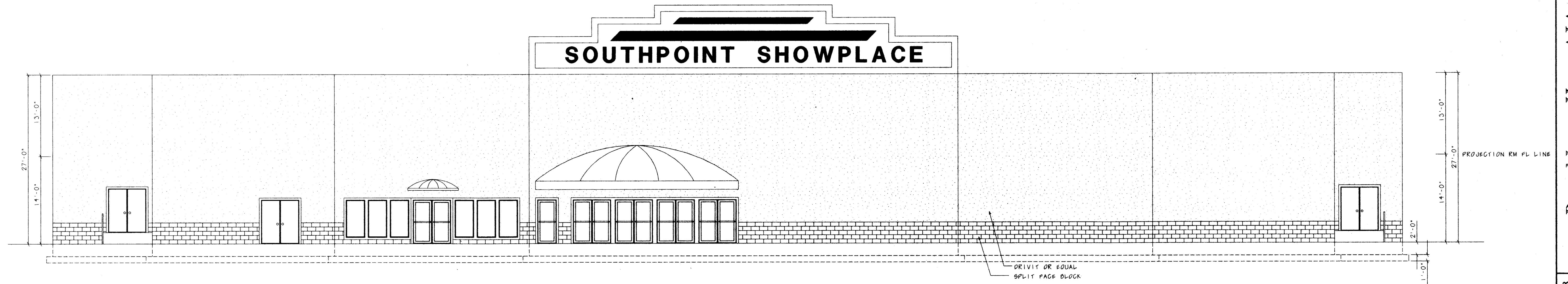
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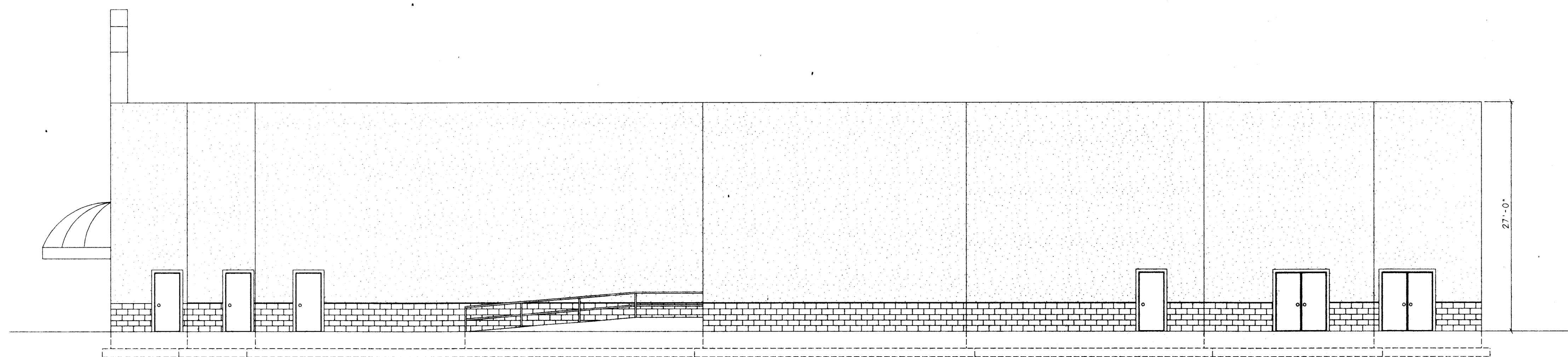
A-3

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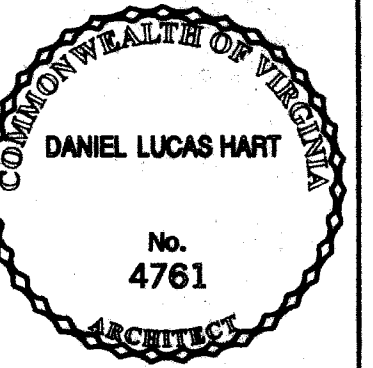
FRONT ELEVATION

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



RIGHT SIDE ELEVATION

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



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(304) 645-3057

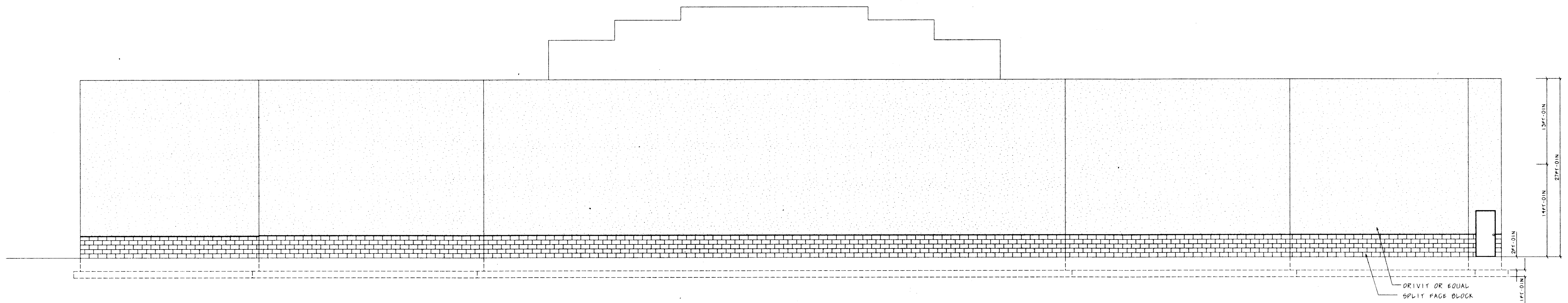
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DATE: 11-7-96

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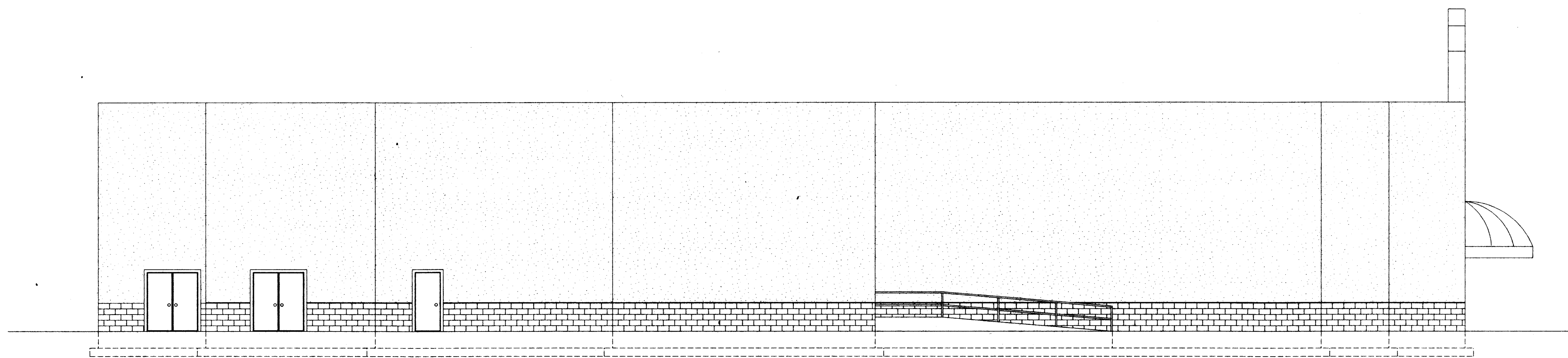
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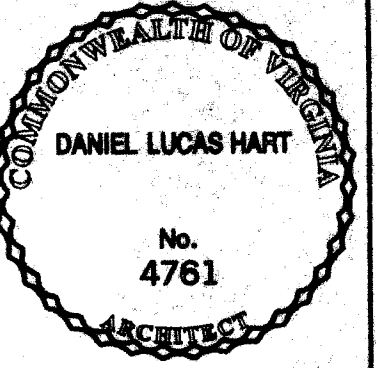
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REAR ELEVATION
SCALE: 1/8" = 1'-0"



LEFT SIDE ELEVATION
SCALE: 1/8" = 1'-0"



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(304) 645-3057

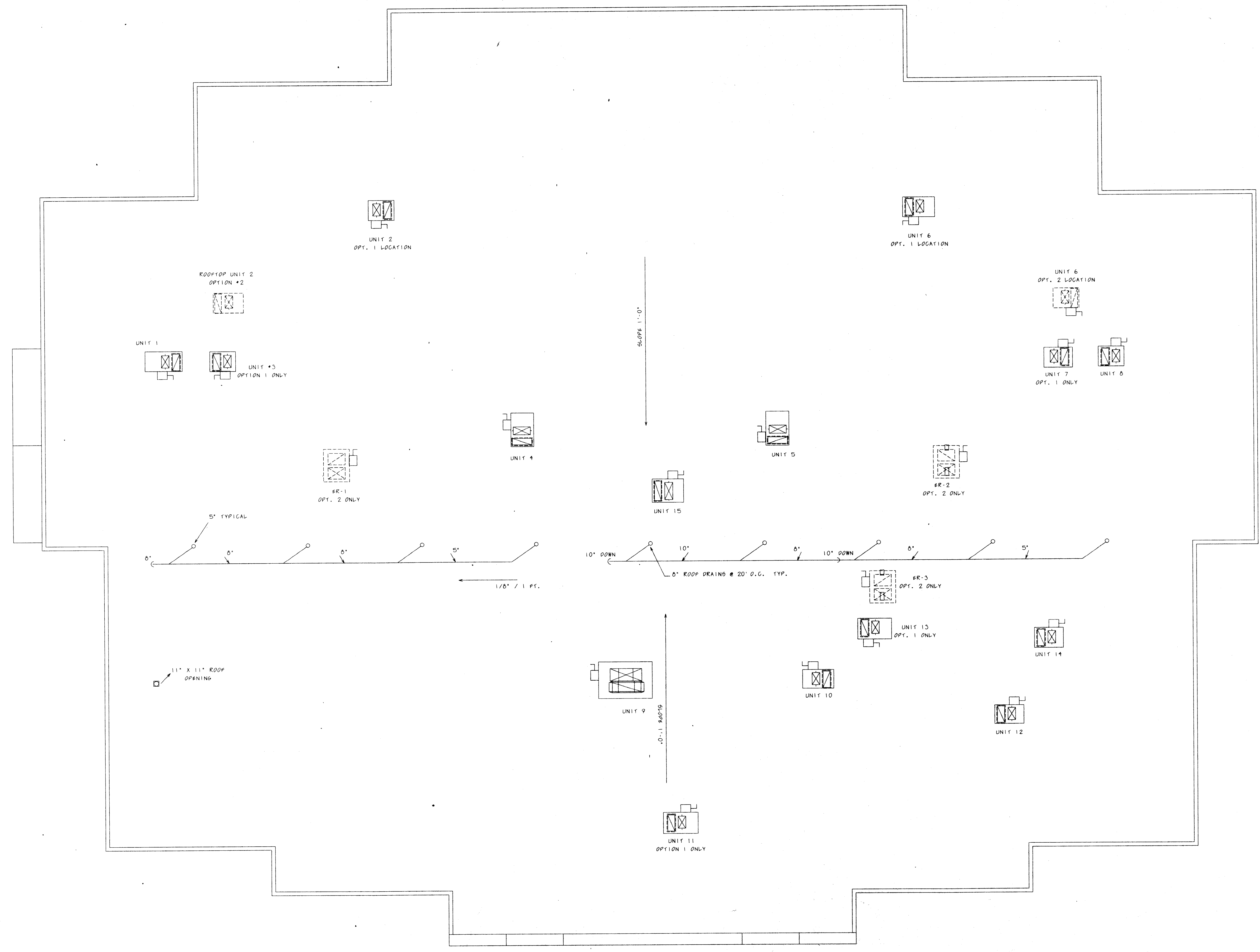
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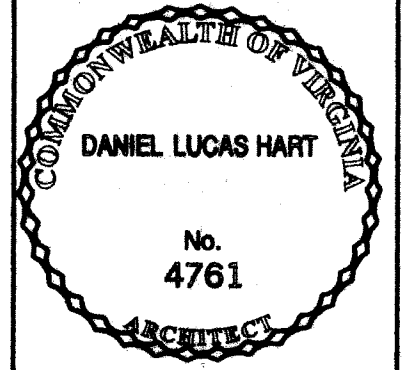
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A-5

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



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ROOM FINISH SCHEDULE

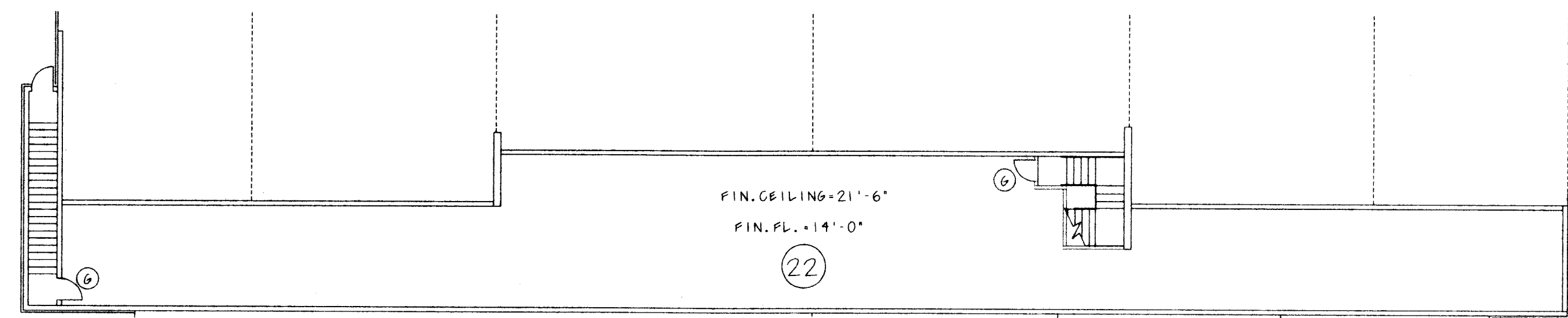
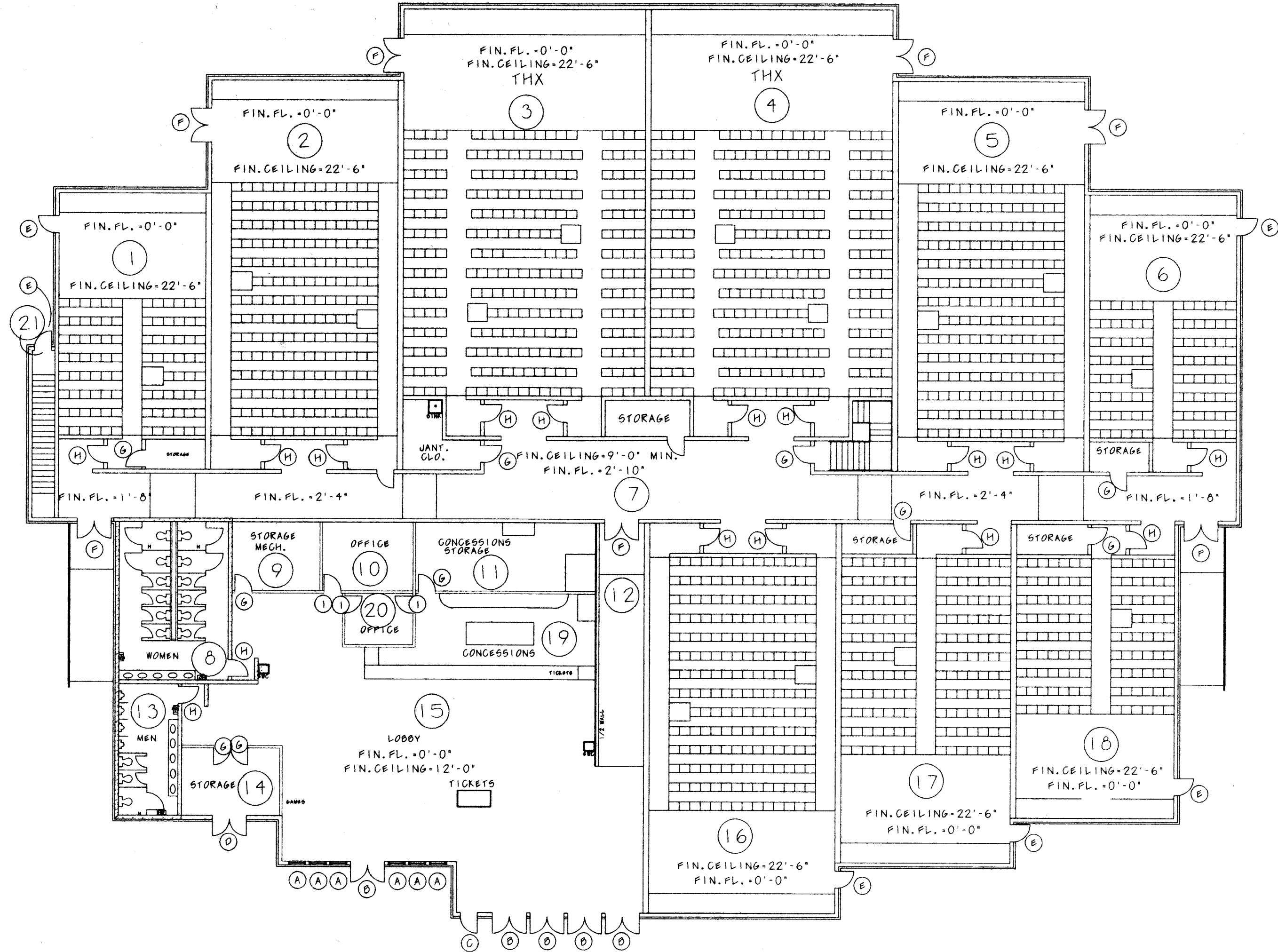
ROOM NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
ROOM NAME	THEATER	THEATER	THEATER	THEATER	THEATER	THEATER	CORRIDOR	RESTROOM	STOR/NGH	OFFICE	CON. STOR	RAMP	RESTROOM	STORAGE	LOBBY	THEATER	THEATER	THEATER	CONCESSION	OFFICE	STAIRS	PROJ RM
FLOORS	VCT	CARPET	CERAMIC TILE	QUARRY TILE	CONCRETE	VINYL	WOOD	QUARRY TILE	WOOD WAINSCOT	CHAIR RAIL	QUARRY TILE											
BASED																						
WALLS																						
CEILING																						
REMARKS	☒ - DENOTES NOT IN CONTRACT * SMOOTH, LIGHT COLORED, NON-ABSORBANT, EASILY CLEANABLE																					

WINDOW SCHEDULE

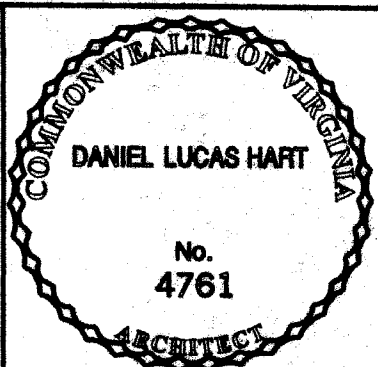
CODE	DESCRIPTION	SERIES	SIZE	LIGHT	VENT	FIN.	SPECS.	MANUFACTURER
A	FIXED THERMOPANE		36X72	SINGLE		ANODIZED	TEMPERED DOUBLE GLAZED	KAWNEER

DOOR SCHEDULE

CODE	DOOR			FRAME		CLASS 3 HARDWARE						NOTES				
	T	W	H	DESCRIPTION	TYPE	FIN.	HEAD	JAMB	SILL	PASS	PRIV.		KEY	LK	HINGE	STOP
B	1 3/4"	36"	00"	ALUM. FR. W/ TEMP. GLASS	PAIR	ANODIZED	ALUM.	ALUM.	ALUM.				*	*		PANIC HROWRE & SELF-CLOSER
C	1 3/4"	36"	00"	ALUM. FR. W/ TEMP. GLASS	SINGLE	ANODIZED	ALUM.	ALUM.	ALUM.				*	*		PANIC HROWRE & SELF-CLOSER
D	1 3/4"	36"	00"	FLUSH INSUL. METAL	PAIR	PAINTED	METAL	METAL	ALUM.				*	*		SELF-CLOSER, NO EXT. HROWRE
E	1 3/4"	36"	00"	FLUSH INSUL. METAL	SINGLE	PAINTED	METAL	METAL	ALUM.				*	*		SELF-CLOSER, PANIC HROWRE
F	1 3/4"	36"	00"	FLUSH INSUL. METAL	PAIR	PAINTED	METAL	METAL	ALUM.				*	*		SELF-CLOSER, PANIC HROWRE
G	1 3/4"	36"	00"	FLUSH INSUL. METAL	SINGLE	PRE-FIN.	METAL	METAL	ALUM.				*	*		2HR DOOR & FRAME W/ CLOSER
H	1 3/4"	36"	00"	FLUSH SOLID CORE WOOD DOORS	SINGLE	PRE-FIN.	METAL	METAL	ALUM.				*	*		SELF-CLOSER, PUSH/PULL HROWRE, KICK PLATES
I	1 3/4"	36"	00"	FLUSH SOLID CORE WOOD DOORS	SINGLE	PRE-FIN.	METAL	METAL	ALUM.				*	*		SELF-CLOSER



WIN/DOOR/ROOM FINISH SCHEDULE

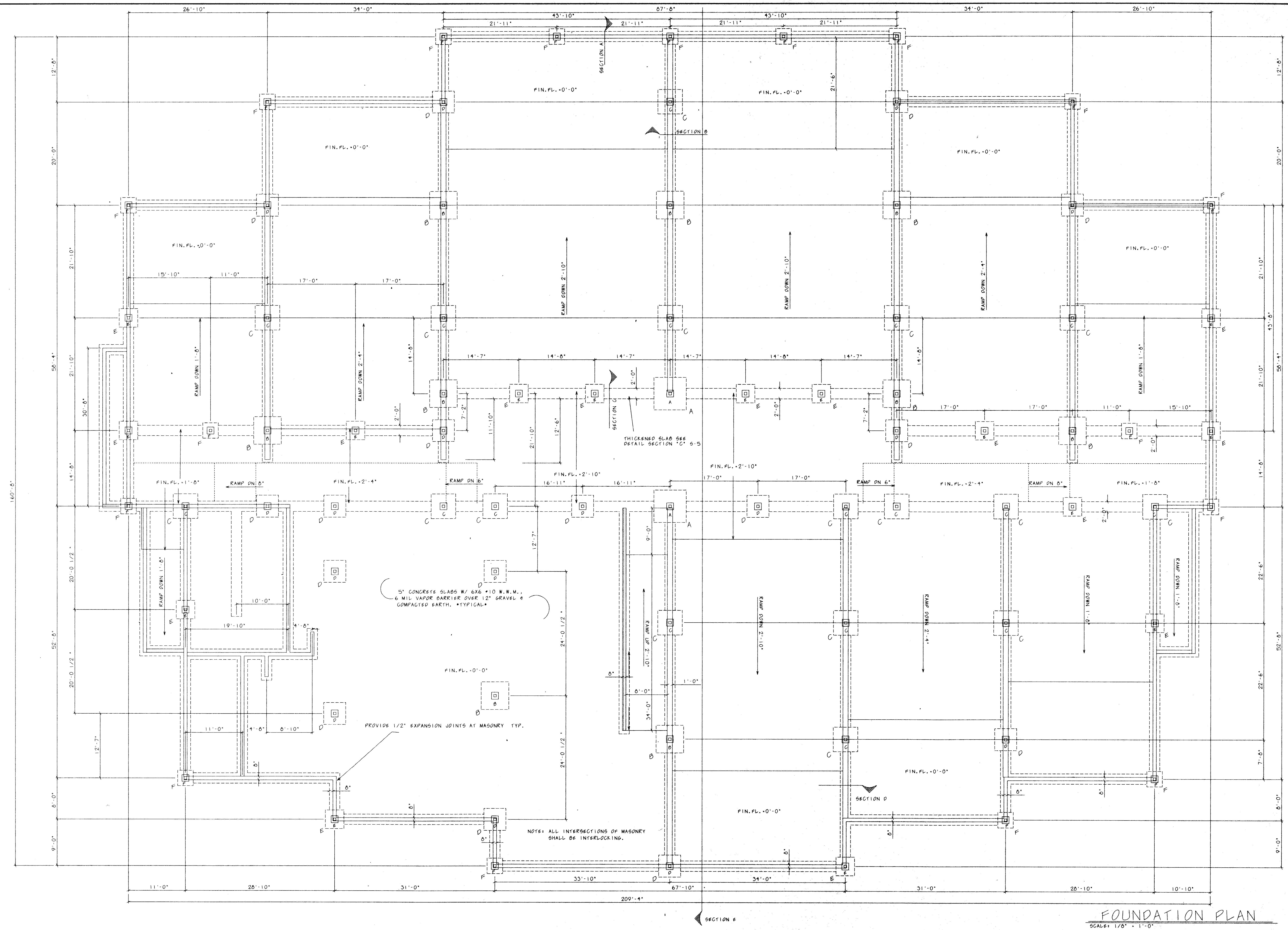


Daniel Lucas Hart, AIA, Architect
 P.O. Box 1490
 Lewisburg, West Virginia 24901
 (304) 645-3057

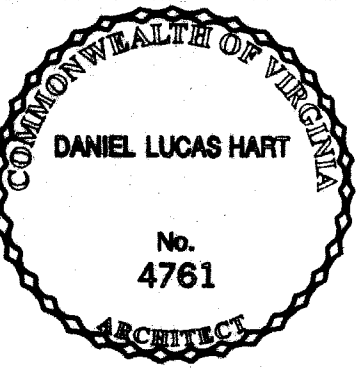
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SOUTHPOINT SHOWPLACE
 for
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 Fredericksburg, Virginia

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



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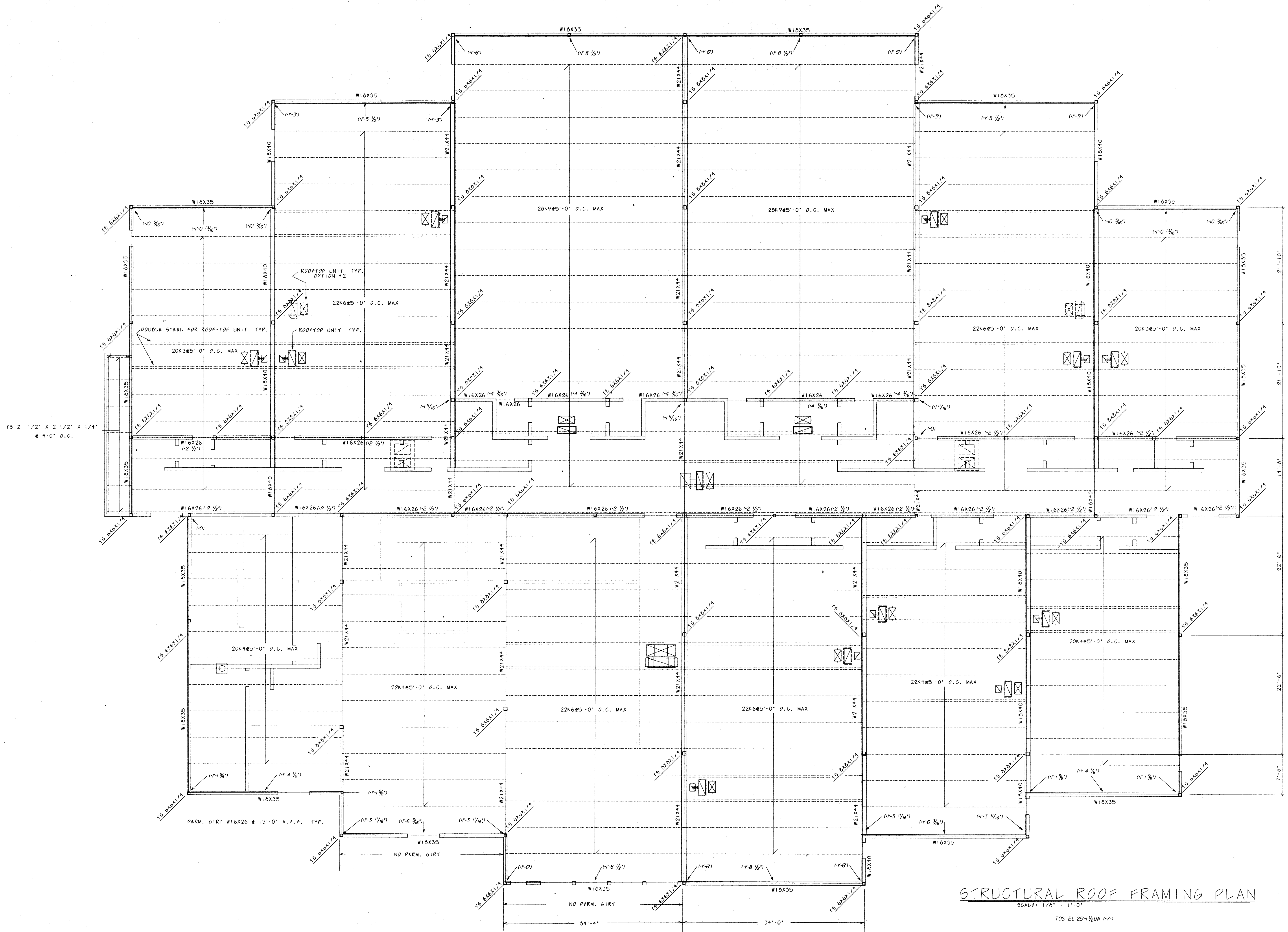
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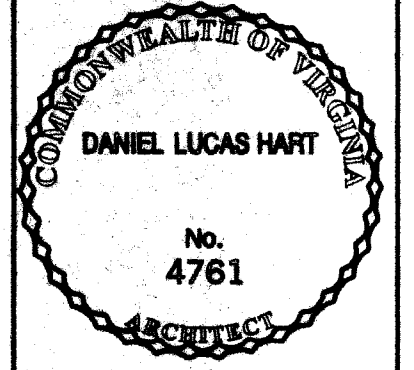
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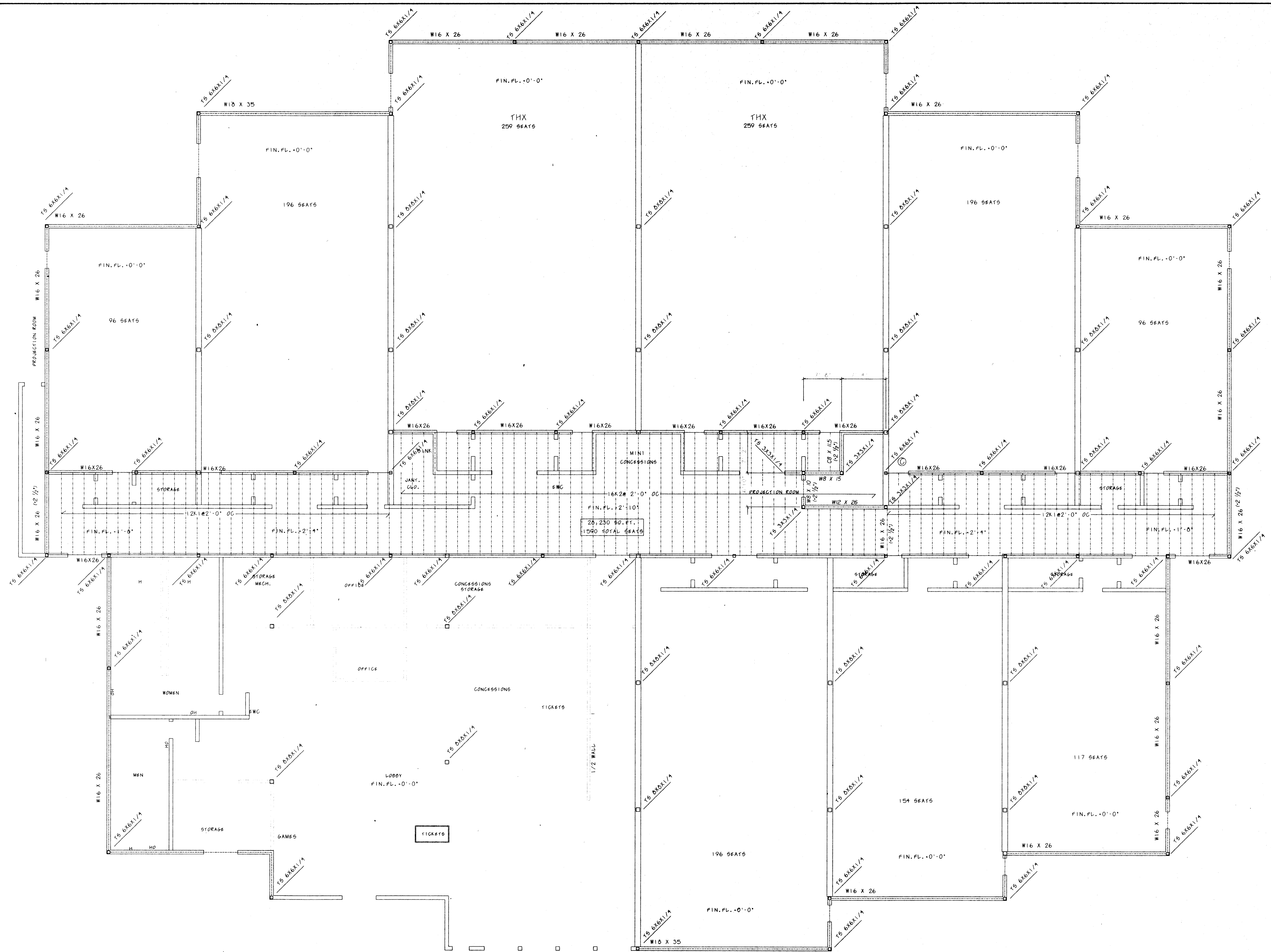
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STRUCTURAL ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"
TOS EL 25'-1 1/2" UN (+/-)



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 (304) 645-3057

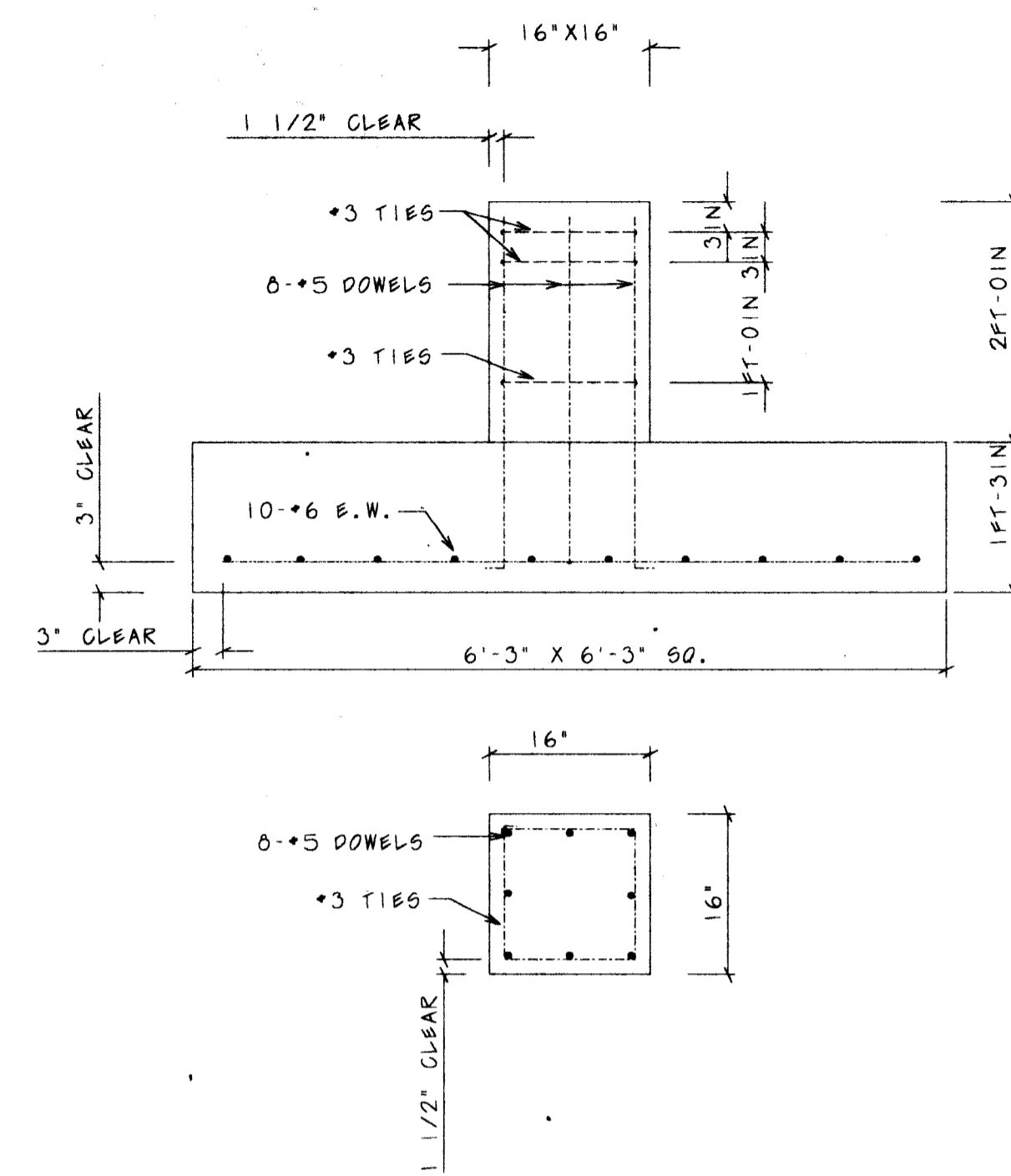


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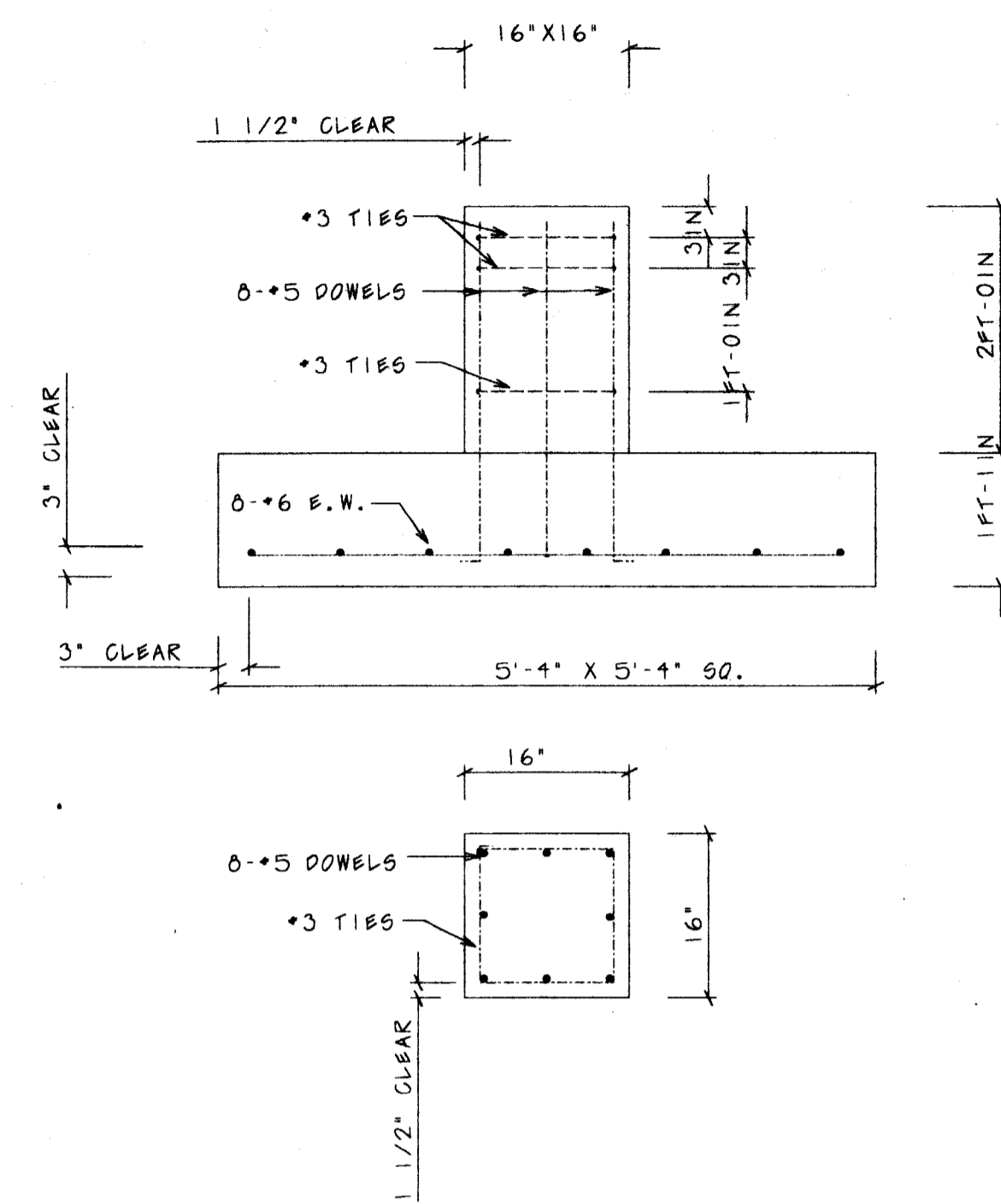
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S-3
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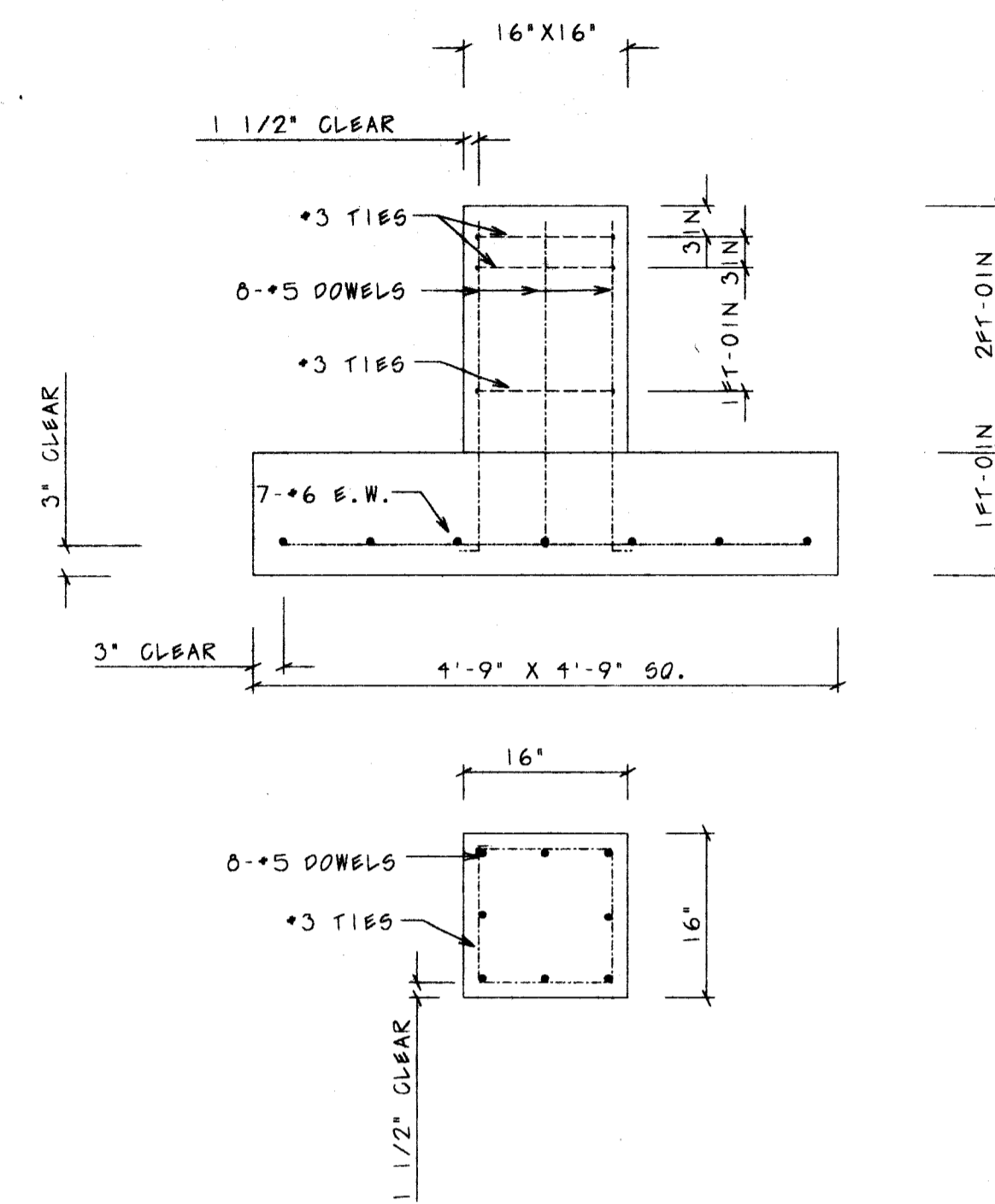
STRUCTURAL PROJ. ROOM AND GIRT FRAMING PLAN
 SCALE: 1/8" = 1'-0"
 TOS EL 13-7 UN (1-1)



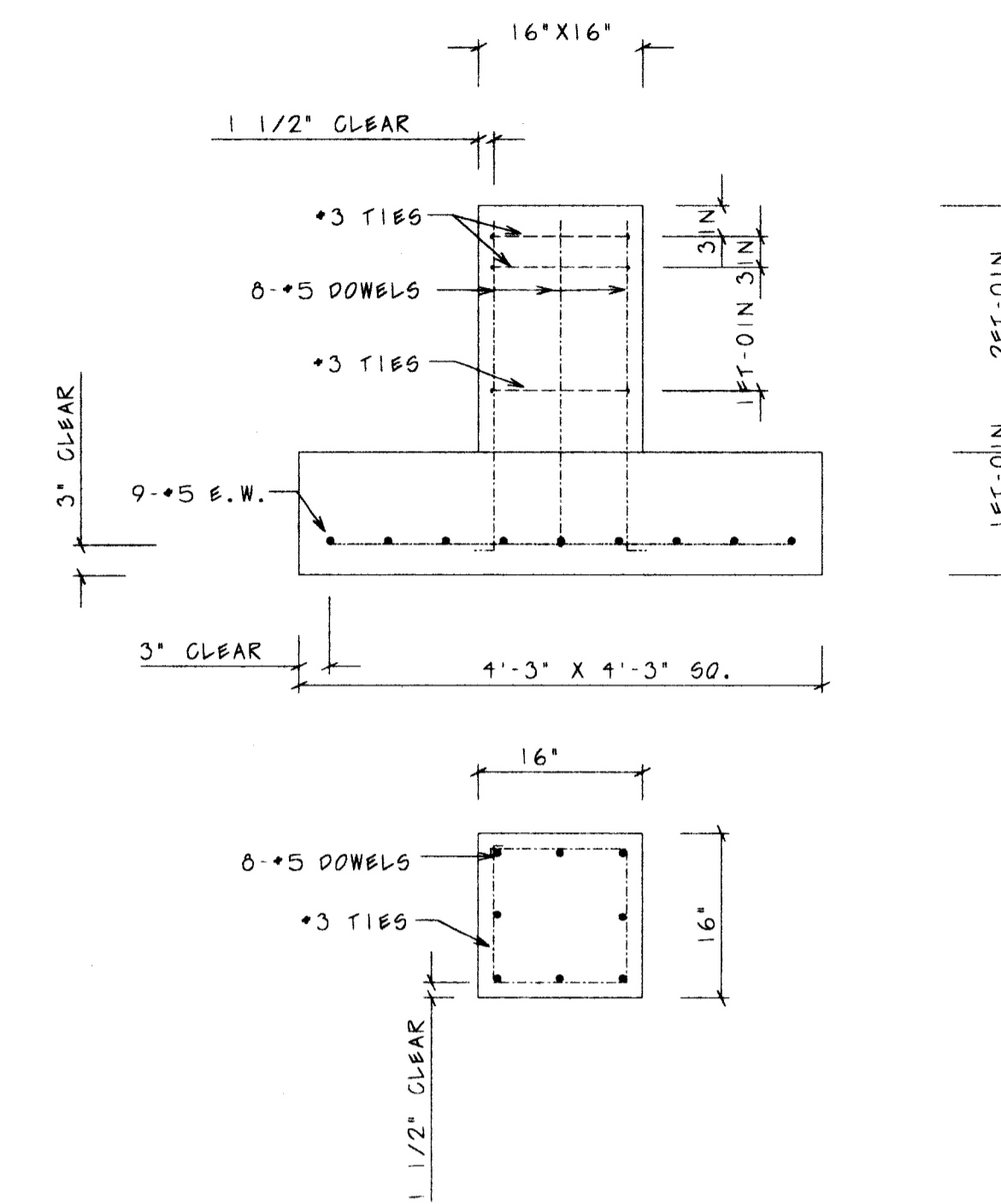
FOOTING "A" DETAIL
 SCALE: 3/4" = 1'-0"



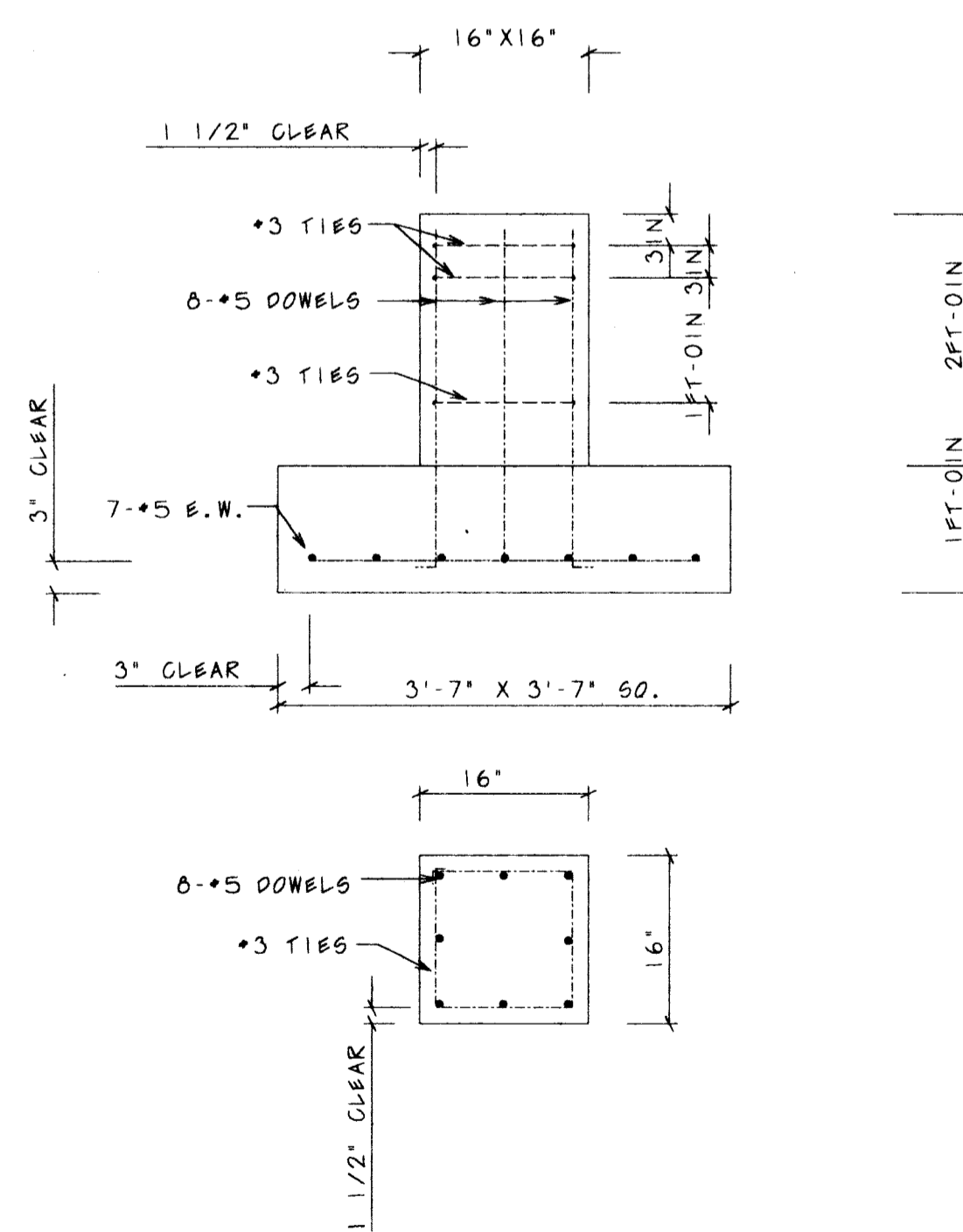
FOOTING "B" DETAIL
 SCALE: 3/4" = 1'-0"



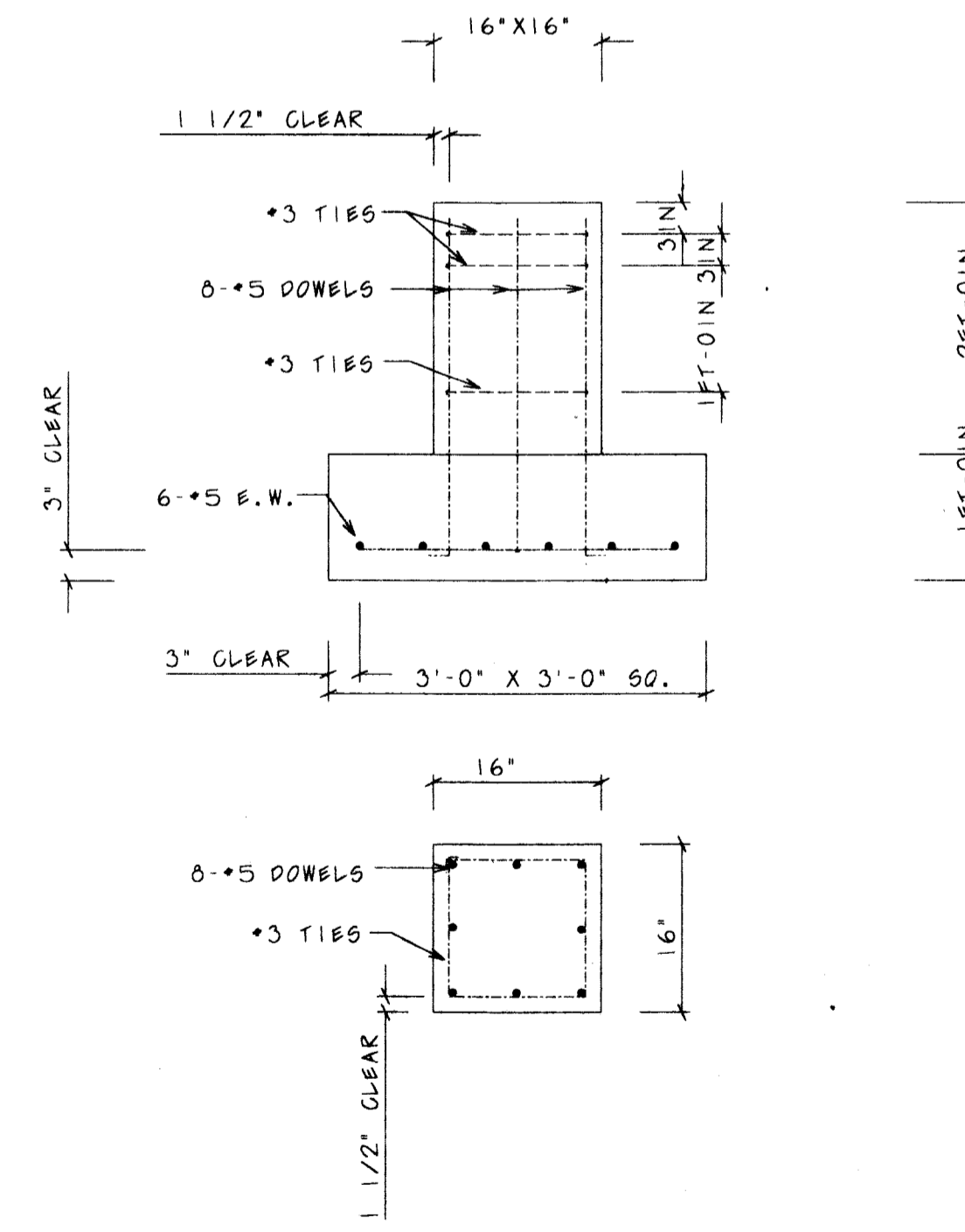
FOOTING "C" DETAIL
 SCALE: 3/4" = 1'-0"



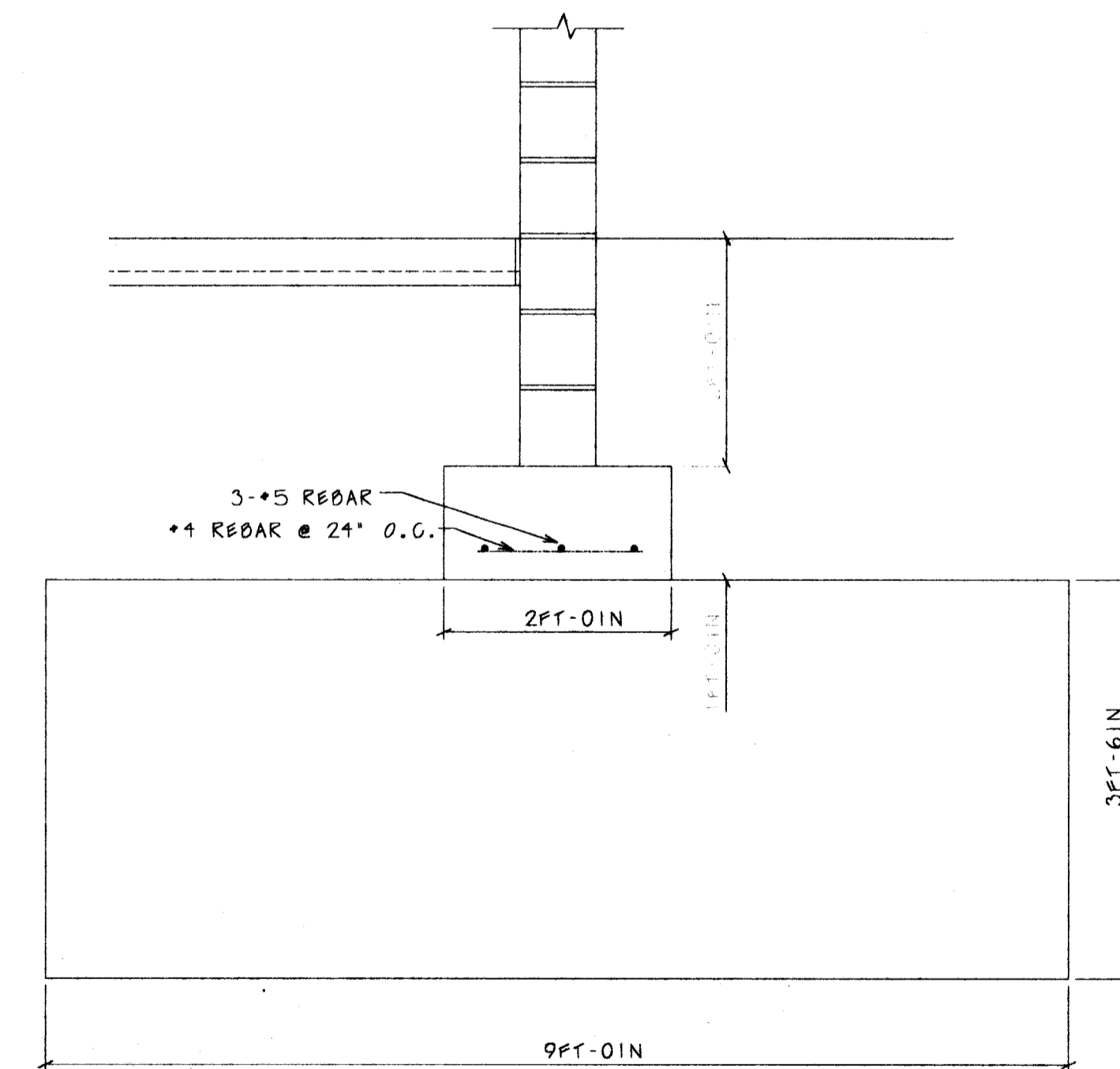
FOOTING "D" DETAIL
 SCALE: 3/4" = 1'-0"



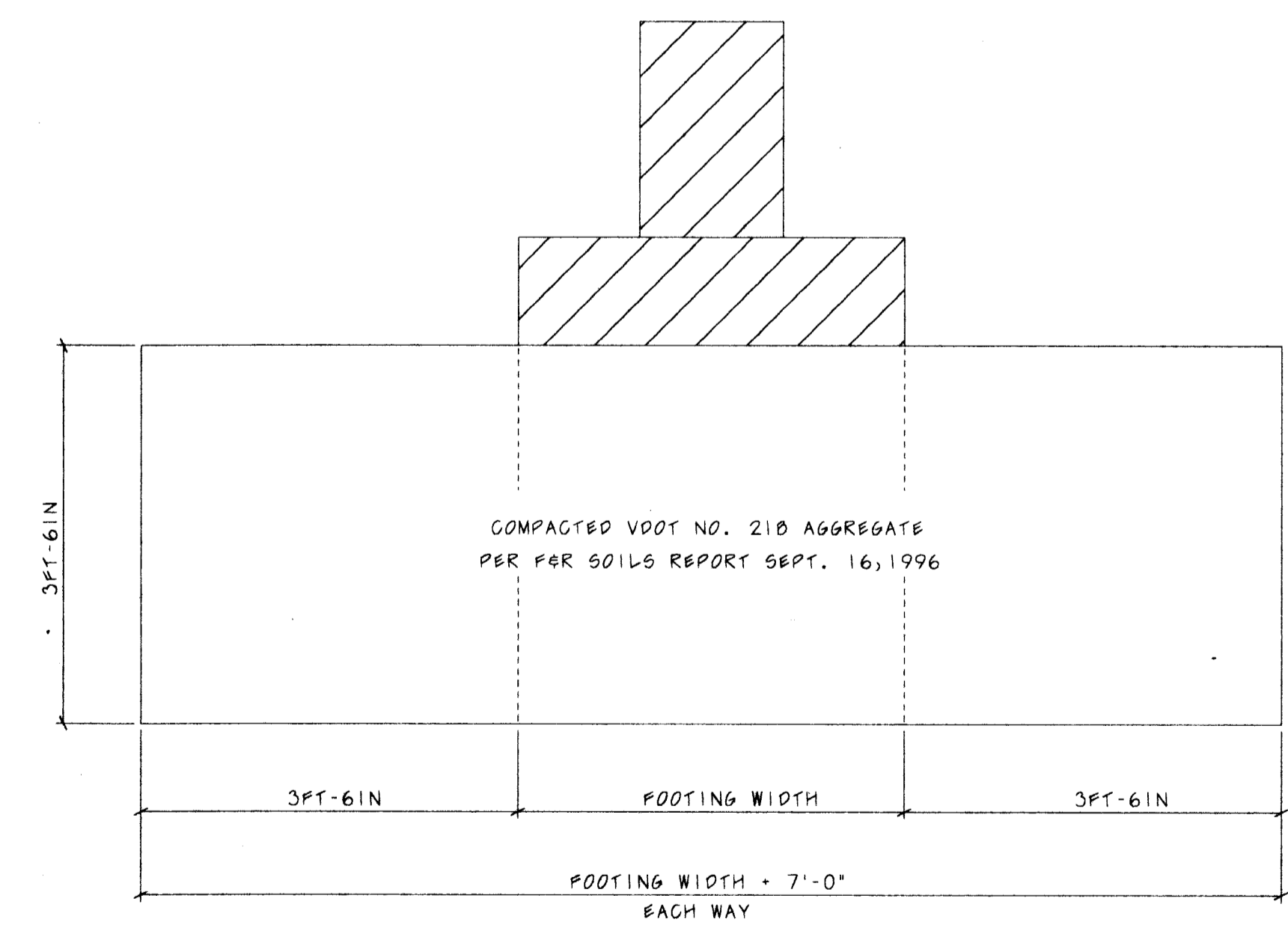
FOOTING "E" DETAIL
 SCALE: 3/4" = 1'-0"



FOOTING "F" DETAIL
 SCALE: 3/4" = 1'-0"

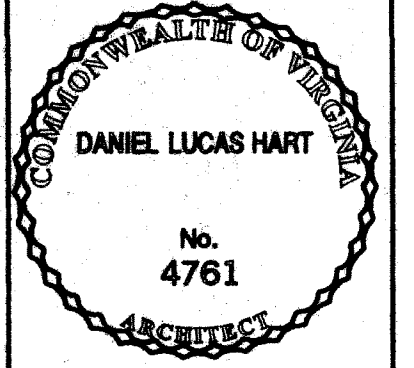


2FT WIDE CONTINUOUS FOOTING
 SCALE: 3/4" = 1'-0"



TYPICAL SPREAD FOOTING
 SCALE: 3/4" = 1'-0"

FC - 4000 PSI
 GRADE 60 REBAR



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 P.O. Box 1490
 Lewisburg, West Virginia 24901
 (304) 645-3057

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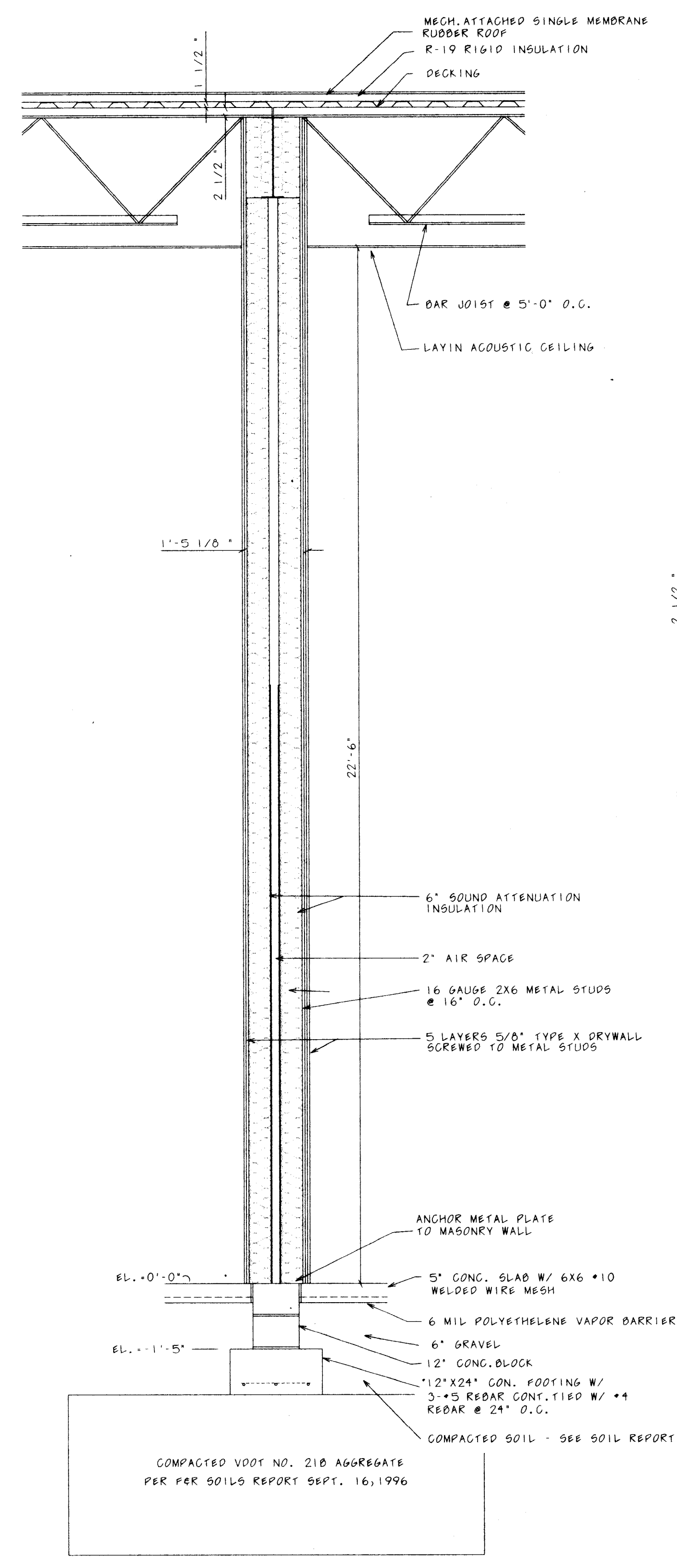
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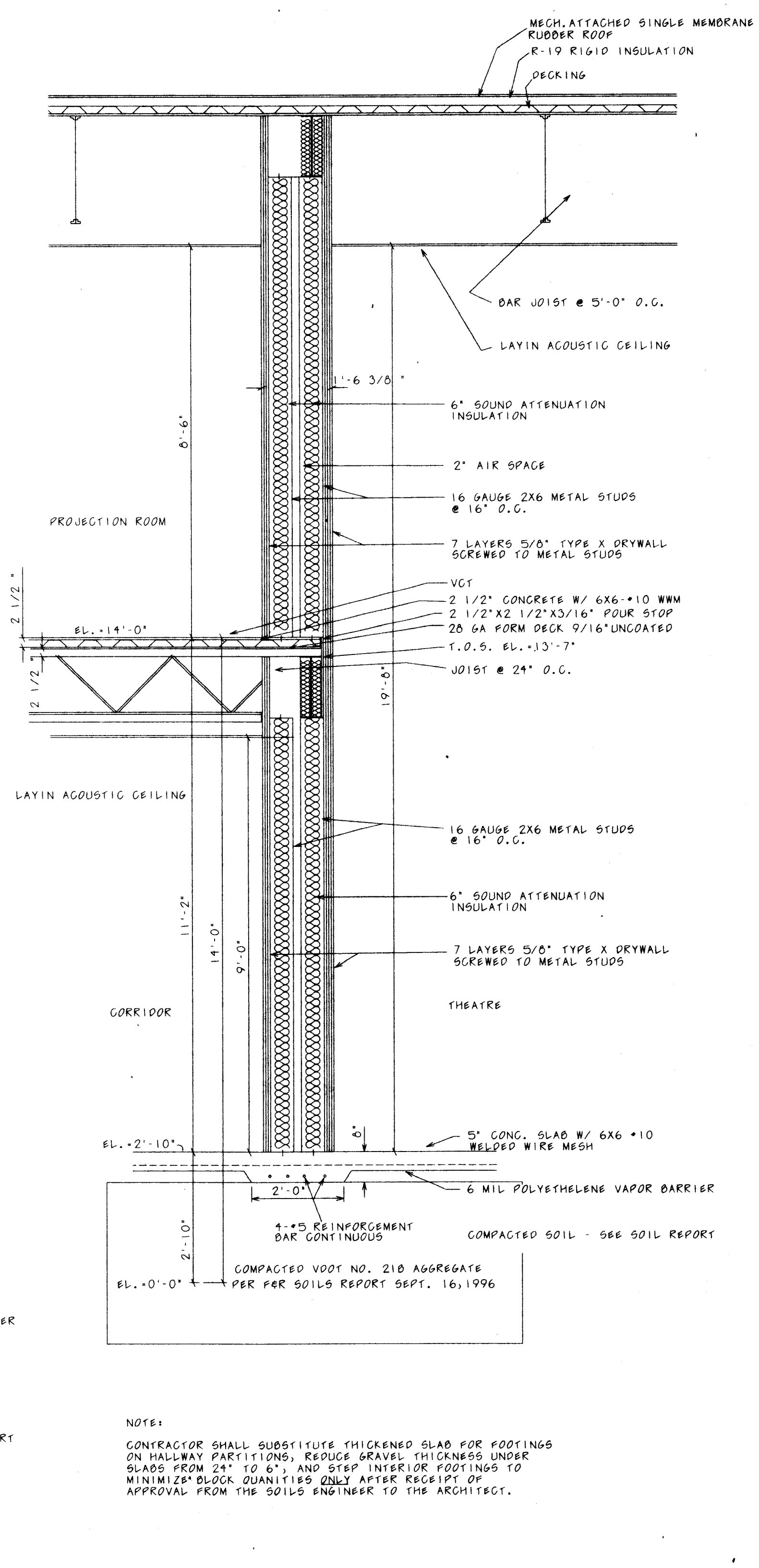
S-5

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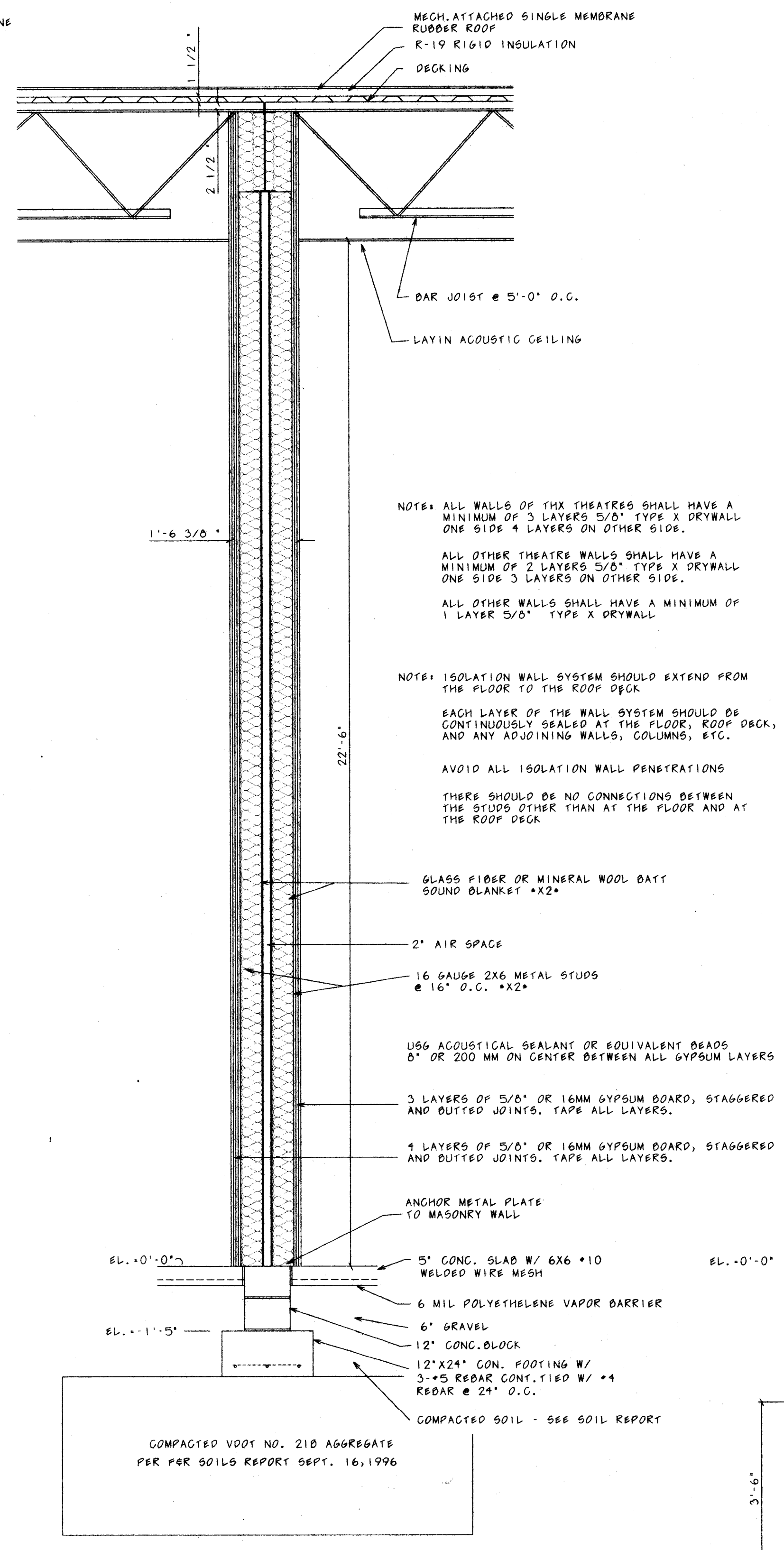
NOTES:
 SIGN PARAPET AT FRONT ELEVATION SHALL HAVE:
 • 3X3 TUBING AS VERTICAL SUPPORTS @ 8'-0" O.C.
 • 3X3 TUBING DIAGONAL BRACES SHALL BE FIELD WELDED @ 0'-0" O.C. BACK TO ROOF JOINTS
 • OWNER MAY ALTER SHAPE OF SIGNAGE AREA AT HIS DISCRETION



WALL SECTION - D
 SCALE: 1/2" = 1'-0"



WALL SECTION - C
 SCALE: 1/2" = 1'-0"

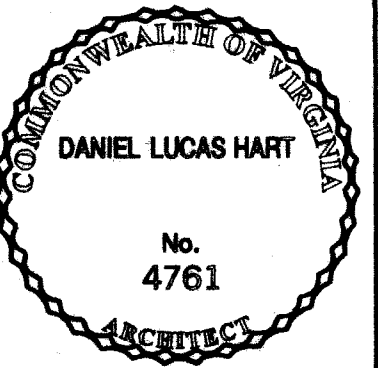


WALL SECTION - B
 @ THX THEATRES
 SCALE: 1/2" = 1'-0"

NOTE: SEE SHEET S-1



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



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 P.O. Box 1490
 Lewisburg, West Virginia 24901
 (304) 645-3057

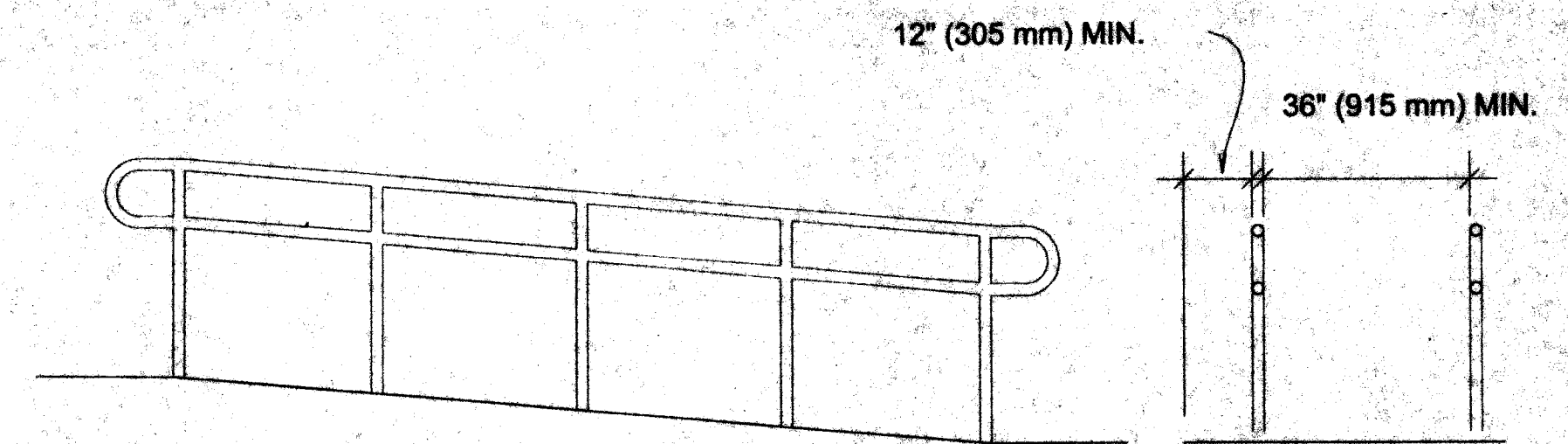
PROJECT NUMBER 9620
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 CHECKED BY DLH
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 for
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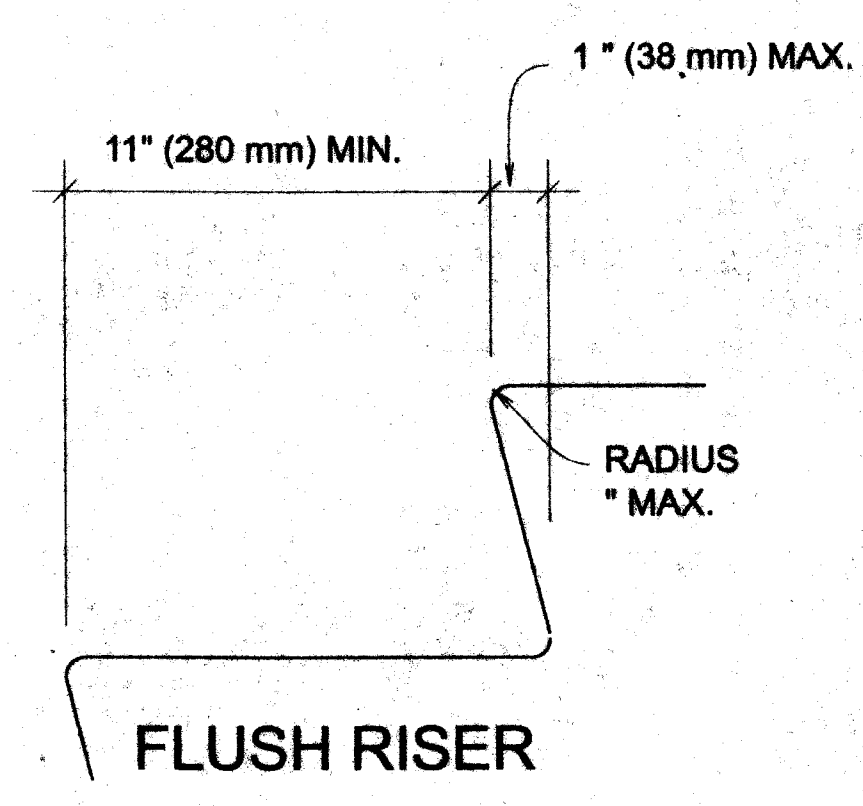
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S-6

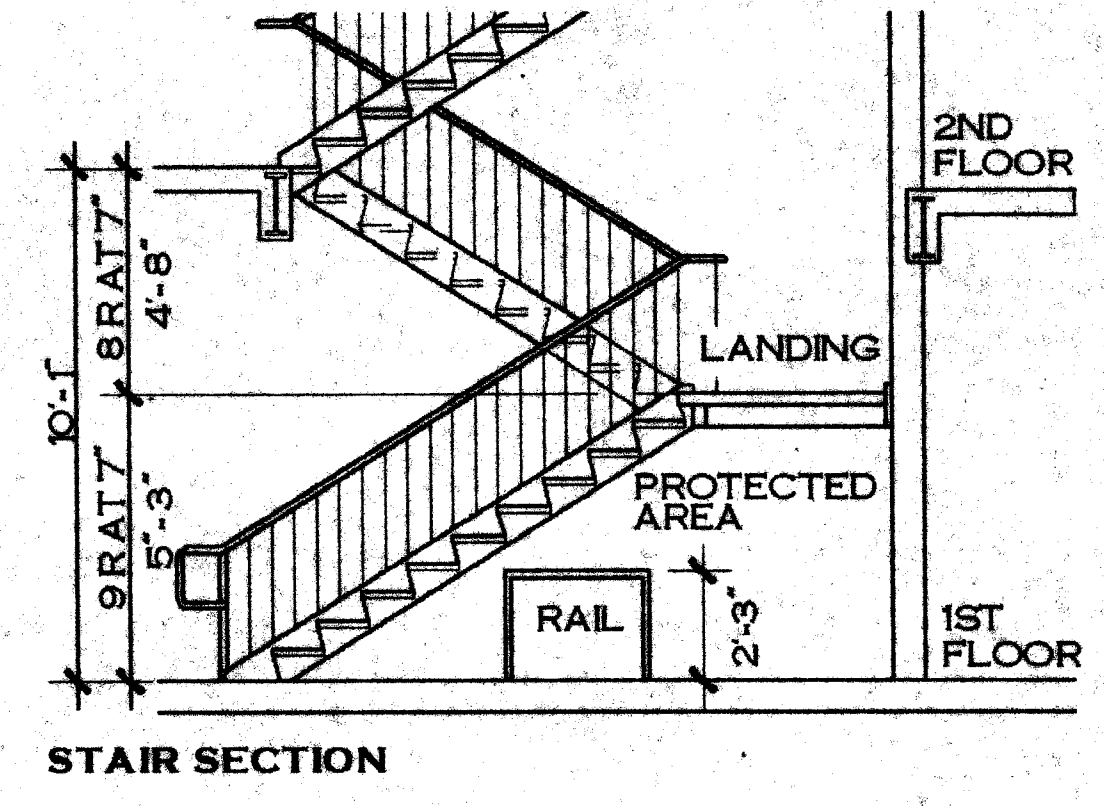
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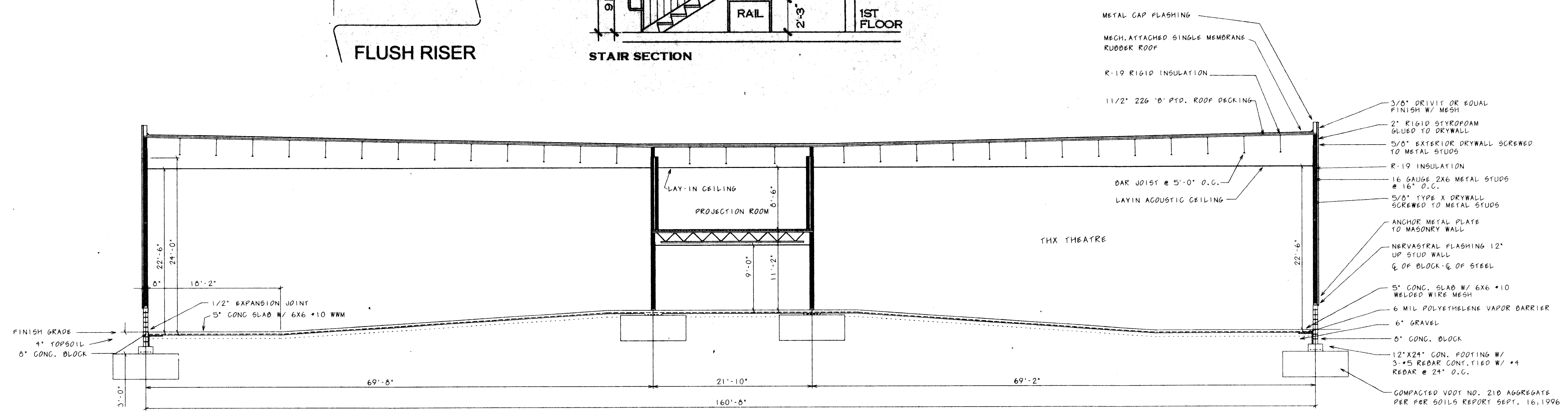
RAILING WITH EXTENDED PLATFORM



FLUSH RISER



STAIR SECTION



BUILDING SECTION E
 SCALE: 1/8" = 1'-0"
 5-6

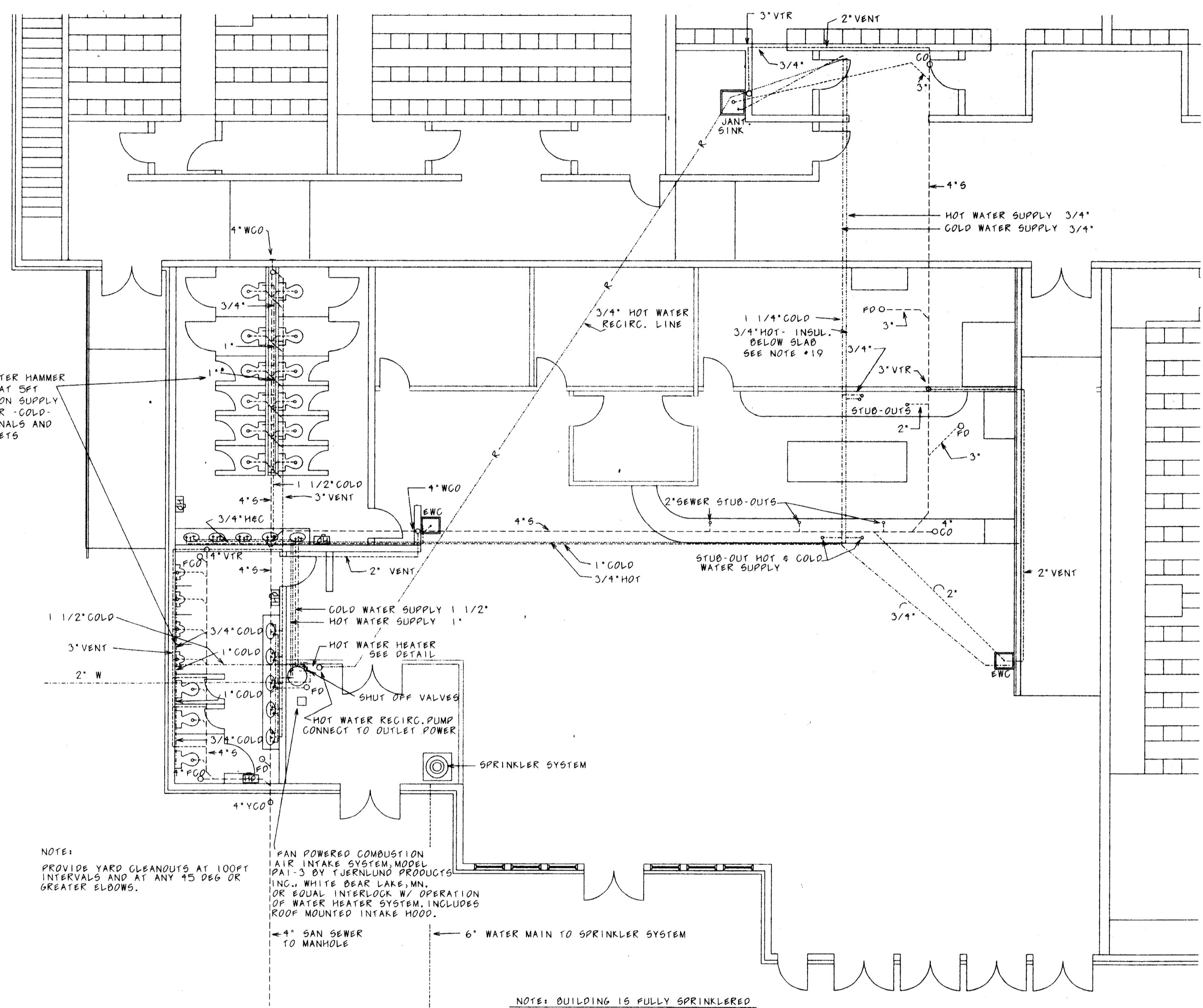
NOTE:
 SEE SHEET S-5 FOR SECTION DETAILS

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

Plumbing Notes—Southpoint Showplace

- On all copper lines use non-acid flux and 95/5 lead free solder.
- Plumbing trim shall be chrome plated. All exposed p-traps shall be chrome plate.
- Hangers for piping:
 - @ 6'-0" O.C. for piping 1½" and smaller
 - @ 1'-0" O.C. for piping 2" and larger
 - At elbows and as recommended by piping mfr.
- Clean outs shall be spaced no greater than 50' o.c., inside building (100' outside).
- Install dielectric unions at all dissimilar metal piping joints.
- Install unions and valves on each side of equipment.
- Piping through rated walls and floors shall be sealed with silicon elastomer sealant as shown on U.L. classified firestop system #129.
- All piping shall be tested by local authorities. Leaks shall not be permissible. Peening a leaking joint is not acceptable.
- After testing:
 - Flush out lines with clean potable water until lines run clear (domestic water system only).
 - Disinfect lines with approved chlorine (1 to 10 bleach to water ratio). Submit sample to architect.
- All holes bored for piping shall be located at centerline of stud or plate where possible. Protect from drywall installation damage with steel plates as required.
- Contractor to supply all necessary blocking, bridging and required bracing for pipes and or fixtures.
- Contractor is to notify architect of any deviation from approved plans.
- All piping, fittings, fixtures and other materials used shall be free of any burrs, nicks, or other defects, and should be dry fitted before installation.
- All piping shall be installed straight, plumb and without sags. Maintain ¼" per foot minimum slope on drain system.
- All through roof vents shall project 12" minimum above roof. They shall be sealed and secured by approved means.
- All drains and vent piping above first floor line shall be malleable iron piping. Below grade and first floor slab, it shall be SCH. 40 PVC.
- All interior gas piping shall be SCH. 40 steel pipe. Threaded fittings shall be used only in exposed areas. Weld all joints in concealed spaces. All exterior and below slab gas piping shall be polyethylene pipe rated for gas usage.
- All interior (and above ground floor slab) water piping shall be TYPE "L" copper with wrought solder fittings.
- All underslab domestic piping shall be Type "L" roll copper. Run underslab in 1" flexible foam pipe insulation. All stub outs may be insulated with ½" foam pipe insulation.
- All above slab hot water piping shall be insulated with 1" fiberglass with vapor barrier jacket. Runouts under 12 ft. long may be insulated with ½" fiberglass and vapor barrier jacket.

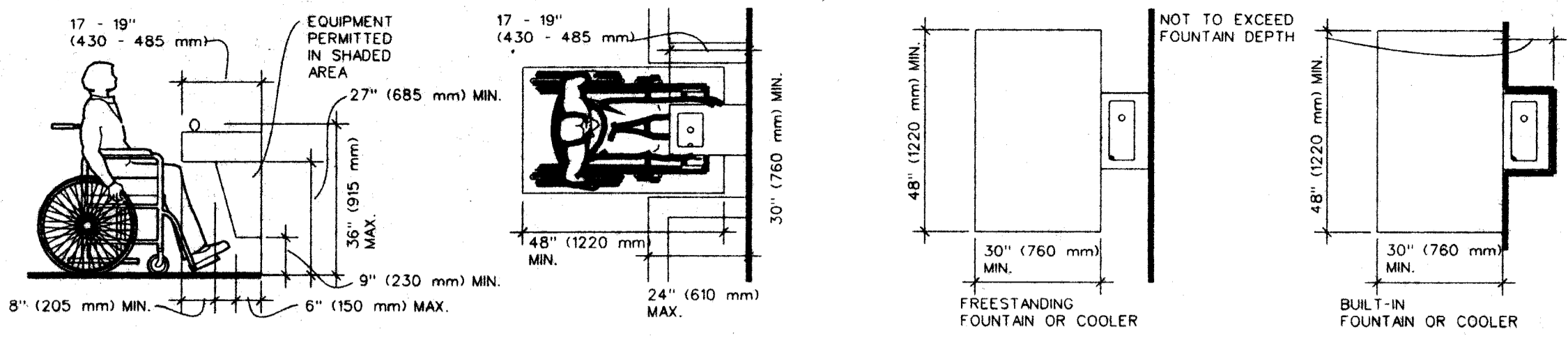
INSTALL WATER HAMMER ARRESTORS AT 5FT INTERVALS ON SUPPLY PIPE HEADER - COLD BEHIND URINALS AND WATER CLOSETS



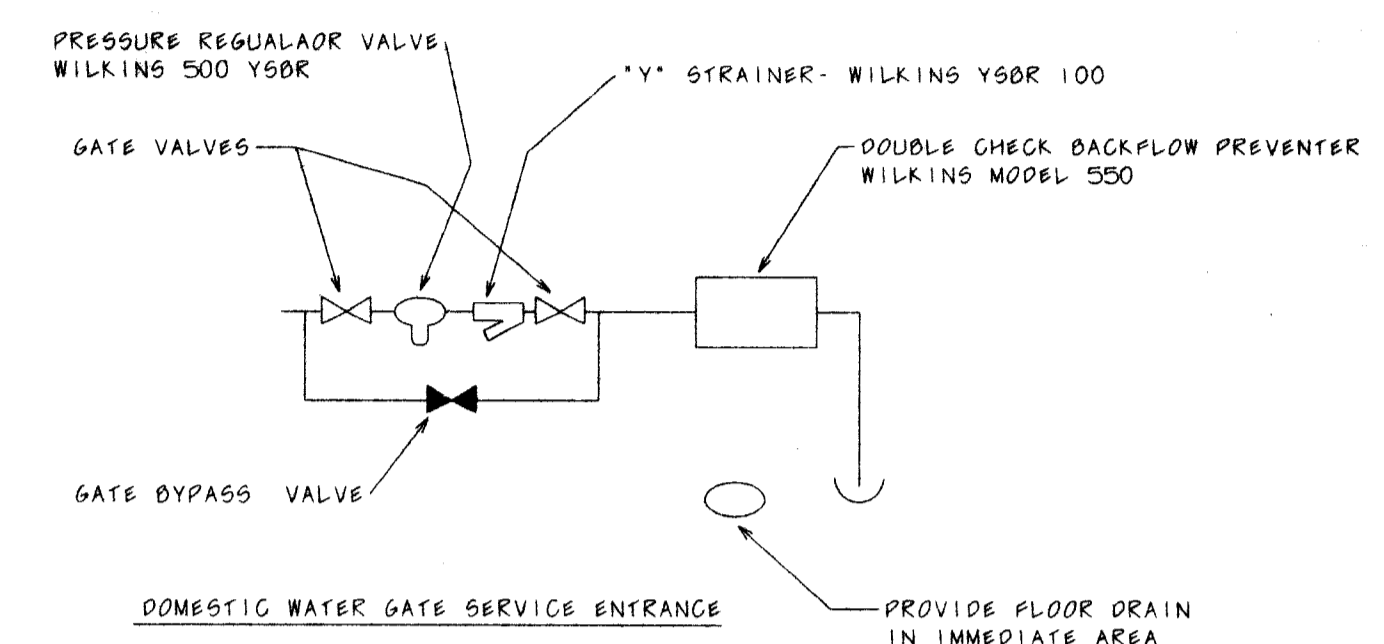
NOTE: PROVIDES YARD CLEANOUTS AT 100FT INTERVALS AND AT ANY 45 DEG OR GREATER ELBOWS.

FAN POWERED COMBUSTION AIR INTAKE SYSTEM, MODEL PAI-3 BY TUERNLUND PRODUCTS INC., WHITE BEAR LAKE, W.V. OR EQUAL INTERLOCK W/ OPERATION OF WATER HEATER SYSTEM. INCLUDES ROOF MOUNTED INTAKE HOOD.

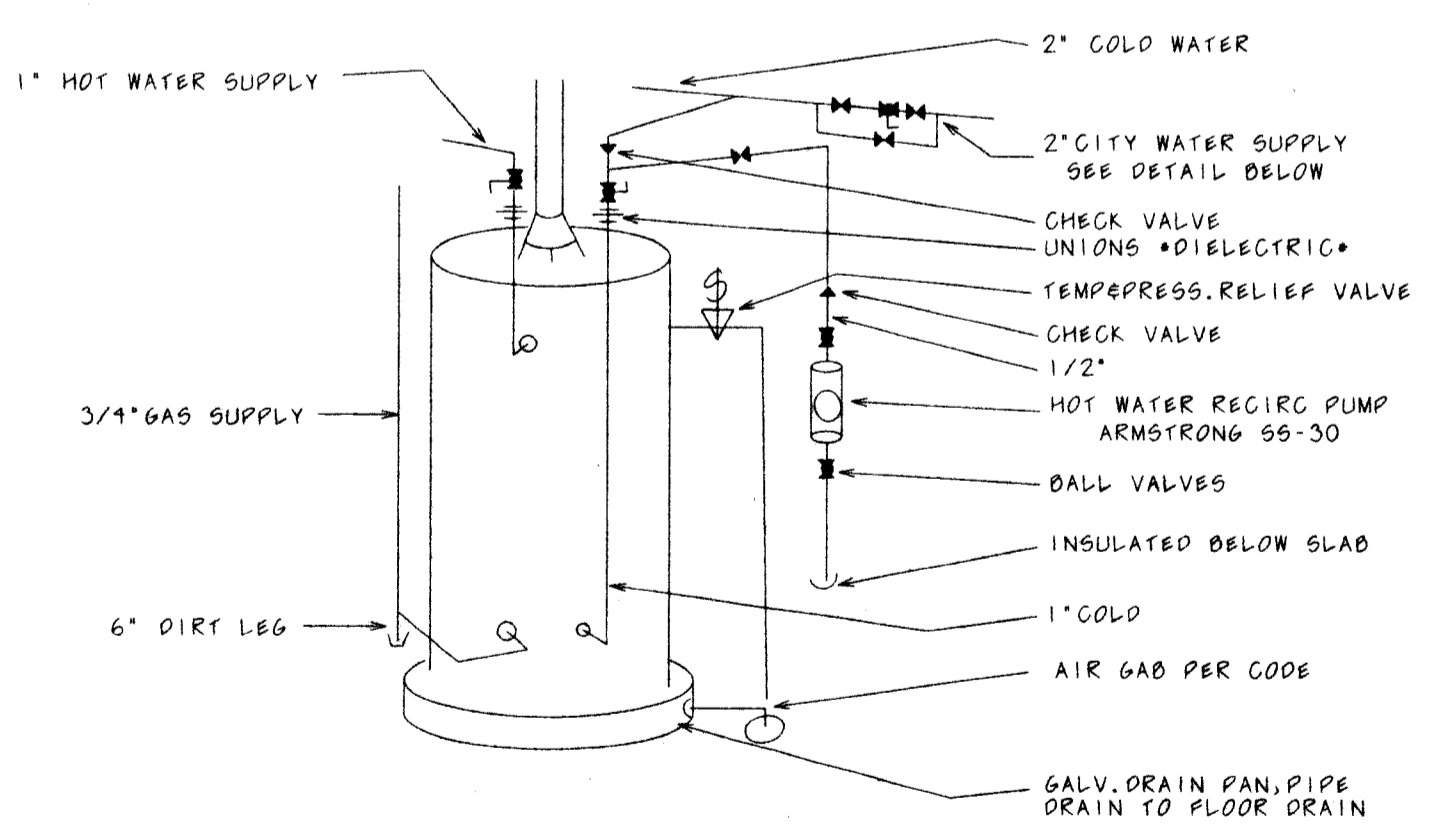
NOTE: BUILDING IS FULLY SPRINKLERED.



HANDICAPPED FOUNTAIN DETAIL

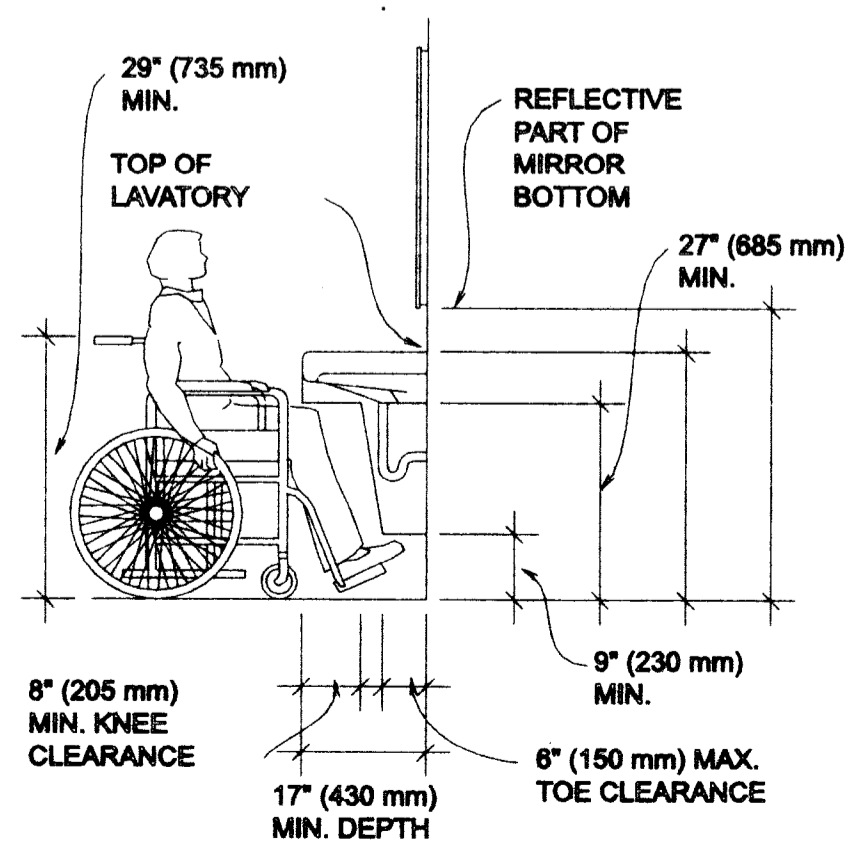


PLUMBING SYMBOLS	
	SHUT OFF VALVE
	FLOOR DRAIN
	4" SAN. SEWER
	Y.C.O.
	COLD WATER
	HOT WATER

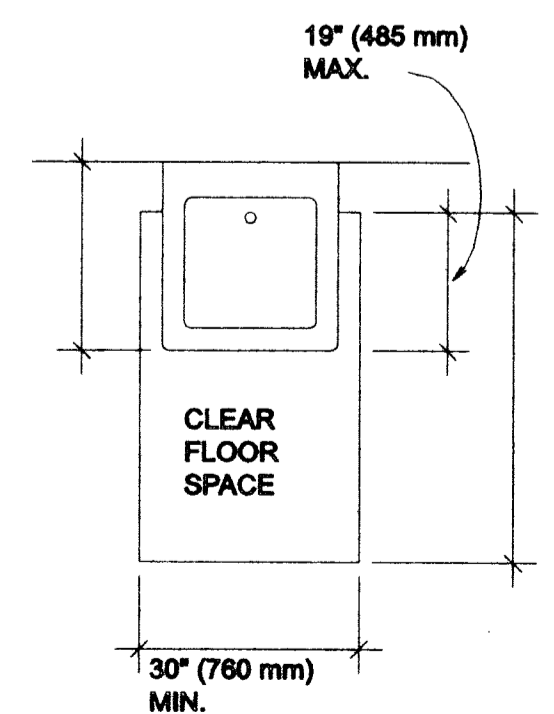


HOT WATER HEATER TO BE A.O. SMITH MODEL DT-100 OR APPROVED EQUAL-75,000 BTU/HR INPUT, 100 GAL. CAPACITY AND 60 GPM. RECOVERY @ 100° TEMPERATURE RISE.

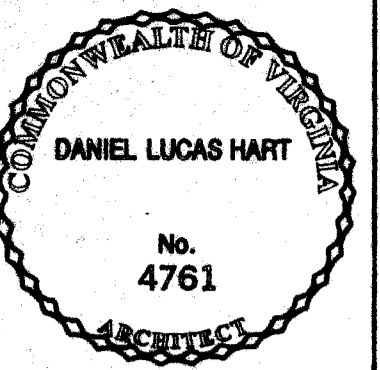
NOTE: MAX OUTLET TEMPERATURE OF HOT WATER HEATER SHALL BE 110° F



HANDICAPPED LAVATORY DETAIL



HANDICAPPED URINAL DETAIL



Daniel Lucas Hart, AIA, Architect
 P.O. Box 1490
 Lewisburg, West Virginia 24901
 (304) 645-3057

PROJECT NUMBER 9620
 DRAWN BY HPH
 CHECKED BY DLH
 DATE: 1-21-97

SOUTHPOINT SHOWPLACE
 for
 CDB Theaters Inc.
 Fredericksburg, Virginia

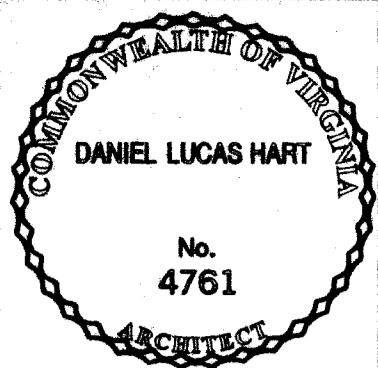
REVISED 02-15-97

DRAWING NUMBER

P-1

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



Daniel Lucas Hart, AIA, Architect
 P.O. Box 1490
 Lewisburg, West Virginia 24901
 (304) 645-3057

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SOUTHPOINT SHOWPLACE
 for
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 Fredericksburg, Virginia

REVISED
 02-13-97

DRAWING NUMBER

M-1

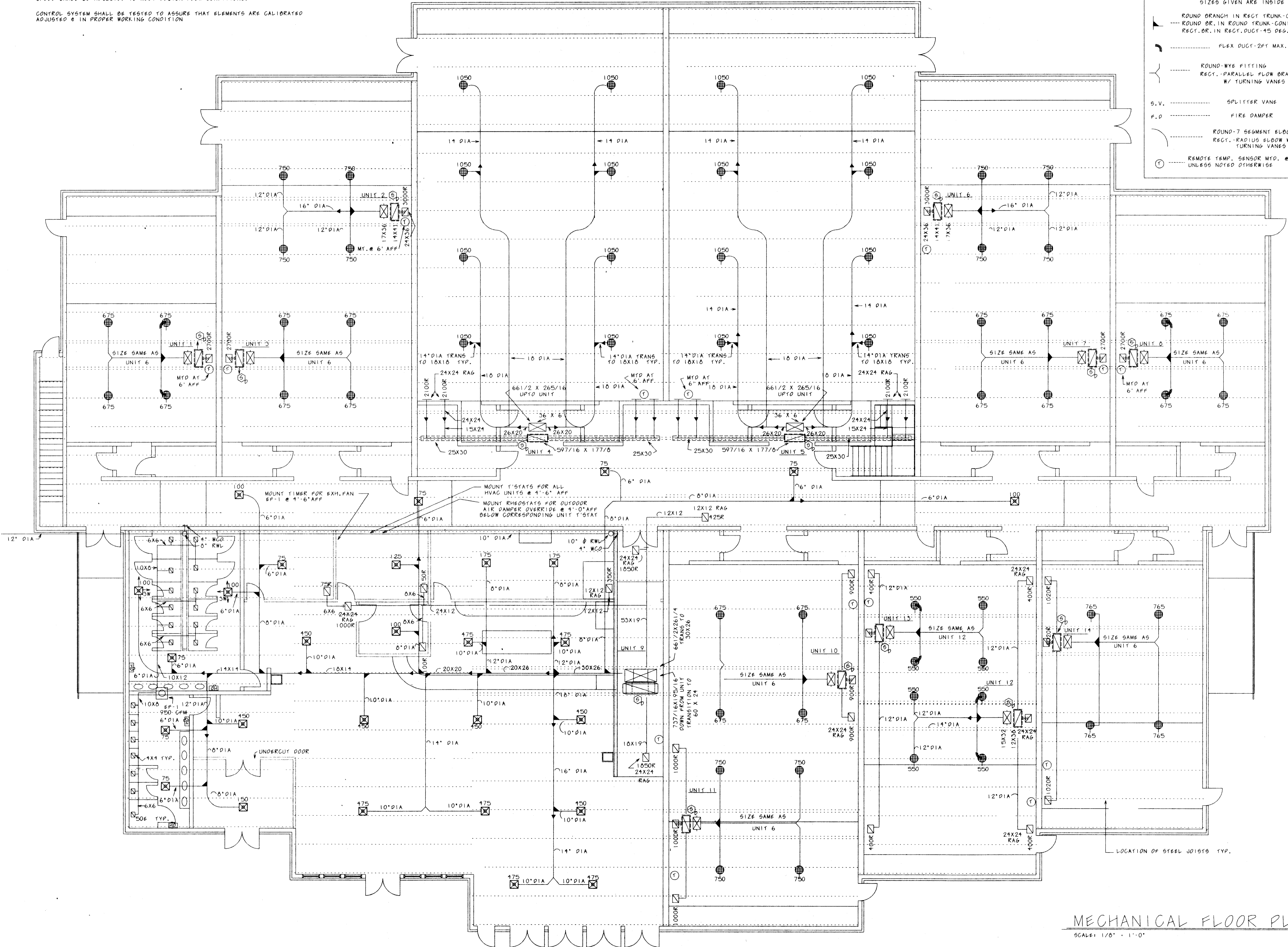
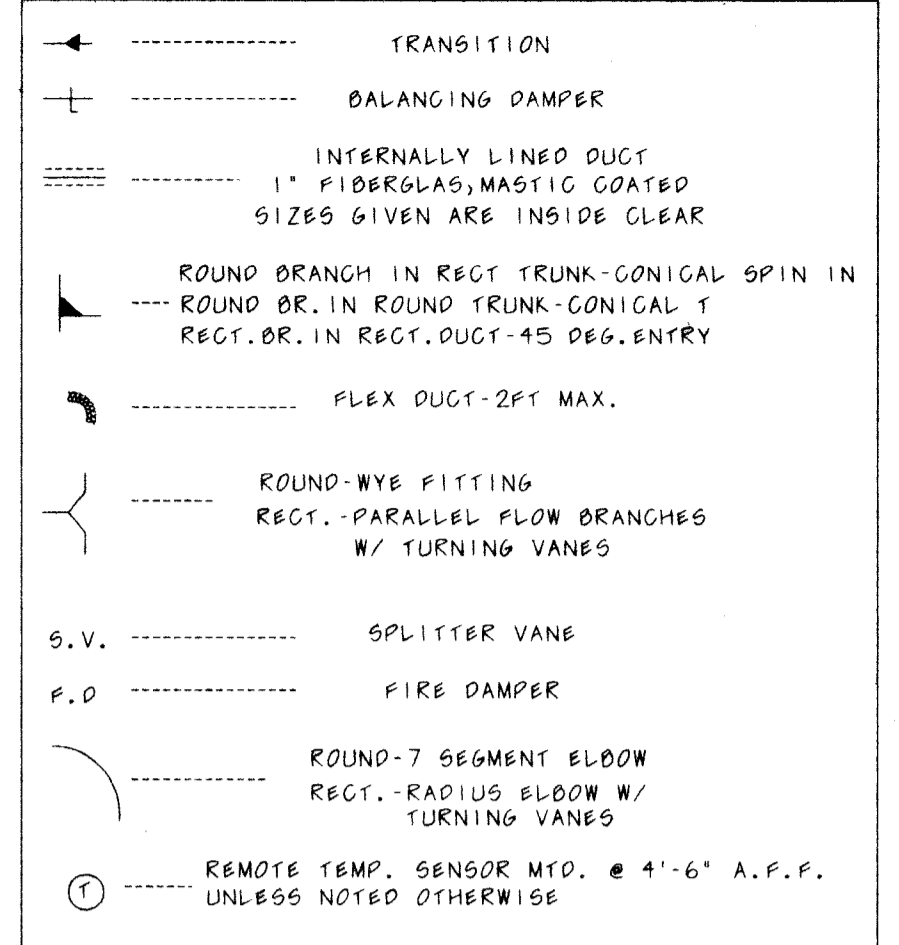
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NOTES:
 HVAC SYSTEM INSTALLER PROVIDE TO OWNER MANUAL DESCRIBING OPERATION & MAINTENANCE OF SYSTEM, NAMES OF QUALIFIED SERVICE AGENTS, REQUIRED MAINTENANCE ACTIONS, & CONTROL INFO INCLUDING SCHEMATICS, CONTROL SEQUENCE DESCRIPTIONS, CALIBRATION INFO, ETC...
 BALANCE AIR SYSTEMS TO FIRST MINIMIZE THROTTLING LOSSES, EXCEPT WHERE THROTTLING IS MINOR AND GREATER LOAD ON FAN THAN 1/3 HP. THEN FAN SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS.
 CONTROL SYSTEM SHALL BE TESTED TO ASSURE THAT ELEMENTS ARE CALIBRATED ADJUSTED & IN PROPER WORKING CONDITION

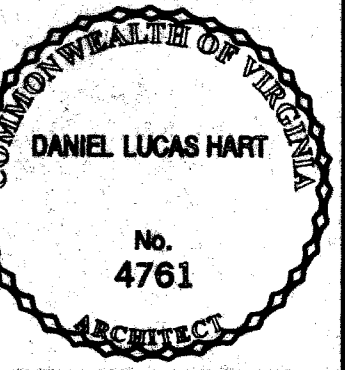
H.V.A.C. NOTES:

- CONTRACTOR TO VERIFY THAT DUCTWORK IS SIZED SO THAT IT WILL FIT THROUGH OR BETWEEN STRUCTURAL MEMBERS, AND/OR BETWEEN STRUCTURE AND CEILING
- ALL SUPPLY DUCT TO BE INSTALLED WITH EXTERIOR WRAPPED FIBERGLASS 1" THICK WITH ALUMINUM FOIL KRAFT FACING

LEGEND & SYMBOLS



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



Daniel Lucas Hart, AIA, Architect
 P.O. Box 1490
 Lewisburg, West Virginia 24901
 (304) 645-3057

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9620
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SOUTHPOINT SHOWPLACE
 for
 CDB Theaters Inc.
 Fredericksburg, Virginia

REVISED
 02-13-97

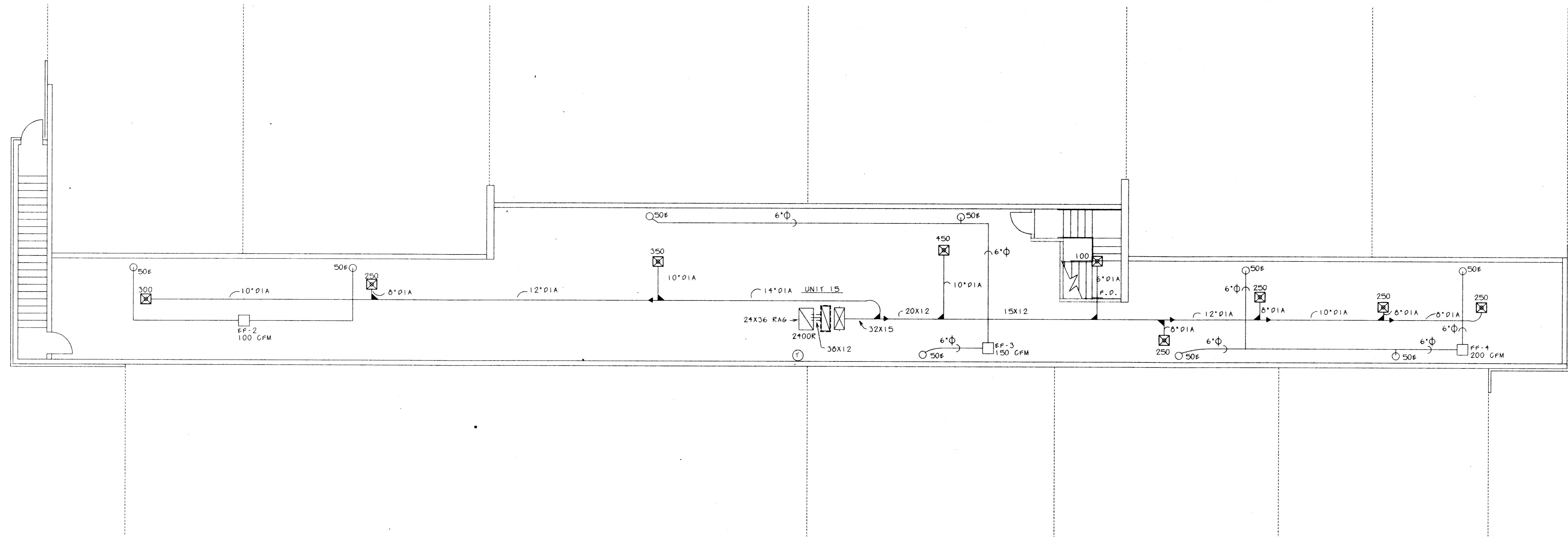
DRAWING NUMBER

M-2

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LEGEND & SYMBOLS

- TRANSITION
- + BALANCING DAMPER
- ==== INTERNALLY LINED DUCT
 1" FIBERGLAS, MASTIC COATED
 SIZES GIVEN ARE INSIDE CLEAR
- ROUND BRANCH IN RECT TRUNK-CONICAL SPIN IN
 ROUND DR. IN ROUND TRUNK-CONICAL T
 RECT. DR. IN RECT. DUCT-45 DEG. ENTRY
- FLEX DUCT-2FT MAX.
- ROUND-WYE FITTING
 RECT.-PARALLEL FLOW BRANCHES
 W/ TURNING VANES
- S.V. --- SPLITTER VANE
- F.D. --- FIRE DAMPER
- ROUND-7 SEGMENT ELBOW
 RECT.-RADIUS ELBOW W/
 TURNING VANES
- REMOTE TEMP. SENSOR MTD. @ 1'-6" A.F.F.
 UNLESS NOTED OTHERWISE



PROJECTION ROOM MECHANICAL PLAN

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

Southpoint Showplace

HVAC Design Assumptions

Design Temperatures & Humidities

Summer—5% of summer temperatures & humidities will exceed these values:

90° D.B., 76° W.B. Outside
78° D.B., 50% R.H. Inside

Winter—97½% of winter temperatures will be higher than this value:

14° D.B. Outside
70° D.B., 30% R.H. Inside

Outside Air Requirements

Lobby 20 CFM/Person
Theaters 15 CFM/Person
Corridors .05 CFM/ft² x 2120 ft² = 106 CFM
Restrooms 50 CFM/Toilet or Urinal, (Transfer Air) x 19=950CFM

Theater Adjustments

Assuming a theater is 100% occupied during the 1 hr. 45 minute movie, and 33% occupied during the 45 minute transition period between movies, using ASHRAE 62-1989 (6.1.3.4):

$$\frac{(100\%)(1.75\text{hr}) + (33\%)(.75\text{hr})}{2.5\text{hrs}} = 80\% \text{ Average Occupancy}$$

The daily operation would consist of 4 of these 2.5 hr. cycles:

Therefore, 80% of maximum seating capacities were used to size the required outside air.

Lobby Adjustments

Assuming a maximum occupancy of 200 people for short durations (½ to 1 hr.), and otherwise a much lower occupancy (less than 100 people), ASHRAE 62-1989 (6.1.3.4) allows the required outdoor air to be 50% of that required for the maximum capacity. The unit supplying O.A. to the lobby also supplies O.A. to the corridor. Since multiple spaces are supplied by a common source, using the calculations in (6.1.3.1) the total outside air supplied by unit 9 was adjusted to 2245 CFM.

Trane Packaged Gas/Electric Rooftop Units with Downflow Discharge

With these accessories:

- Factory supplied roof curb
- Motor operated outside air damper controlled by thermostat located in theater manager's office
- Programmable night setback control located in manager's office
- Remote temperature sensors (1 for each unit) located near return air grill of each unit (thermostat with digital display of temperature sensor's output)
- Insulation kit to prevent condensation from forming inside curb

Option 1—As Shown on Sheet M-1

Unit #	Trane Model #	Rated @ 80° E.D.B., 67° E.W.B. and 90° Ambient		Supply Air CFM	Outside Air CFM	Static Press	Nominal Rating	Heating Capacity		Unit Weight approx. lbs.	Curb Dimens.	Remarks
		MBH Total	MBH Sens					Input MBH	Output MBH			
1	YCD090C4	90.0	63.0	2700	1400	0.3	7½ Ton	120	97	950	42¾x77%	All units except #15 with economizer & bars. press. relief.
2	YCD075C4	76.7	57.8	3000	1470	0.3	6¾ Ton	120	97	900	42¾x77%	2HP Oversized Fan Motor
3	YCD090C4	90.0	63.0	2700	1470	0.3	7½ Ton	120	97	950	42¾x77%	
4	YCD211C4	24.0	156.0	8400	3885	0.48	17½ Ton	350	284	1850	63x98¾	7½HP Oversized Indoor Fan Motor
5	YCD211C4	214.0	156.0	8400	3885	0.48	17½ Ton	350	284	1850	63x98¾	7½HP Oversized Indoor Fan Motor
6	YCD075C4	76.7	57.8	3000	1470	0.3	6¾ Ton	120	97	900	42¾x77%	2HP Oversized Fan Motor
7	YCD090C4	90.0	63.0	2700	1470	0.3	7½ Ton	120	97	950	42¾x77%	
8	YCD090C4	90.0	63.0	2700	1400	0.3	7½ Ton	120	97	950	42¾x77%	
9	YCD240B4	242.3	171.2	7200	2245	0.5	20 Ton	400	324	2300	77x113½	
10	YCD090C4	90.0	63.0	2700	1470	0.3	7½ Ton	120	97	950	42¾x77%	
11	YCD075C4	76.7	57.8	3000	1470	0.3	6¾ Ton	120	97	900	42¾x77%	2HP Oversized Fan Motor
12	YCD060C4	63.3	45.5	2200	1155	0.3	5 Ton	90	70	800	39¾x73%	Oversized Indoor Fan Motor
13	YCD060C4	63.3	45.5	2200	1155	0.3	5 Ton	90	70	800	39¾x73%	Oversized Indoor Fan Motor
14	YCD102C4	105.0	72.4	3060	1755	0.3	8½ Ton	205	166	1250	42¾x77%	
15	YCD060C4	64.1	47.2	2400	0	0.52	5 Ton	90	70	800	39¾x73%	Oversized Indoor Fan Motor

EF-1—Same as Option 2 EF-2,3—Same as Option 2

Diffuser & Register Schedule

Mark	Titus Model	Description	Size	Noise Criteria	Throw (FT)	Comments
⊗	TDCA	Adjustable Square Ceiling Diffuser	200 CFM or more, 18x18 Less than 200 CFM, 12x12	Approx. 25	Varies	W/ opposed blade dampers.
⊠	50R	Egg crate	Per DWGS.*	Varies	—	Opposed blade dampers on exhaust only
⊞	350R	Wall or duct mounted return grill	Per DWGS.*	Approx. 22	—	W/O Damper. Blades to run in horizontal direction.
⊕	272RL TMRA	Ceiling Diffuser w/ adjustable blades	CFM ≤ 500—10x10 501-700—12x12 701-900—14x14 901-1100—16x16	26 25 24 22	Varies	W/ opposed blade damper. Provide filler panels & trim for 2x4 lay-in ceiling.

*=Same size as duct unless noted otherwise.

Energy Recovery Unit Schedule

#	Make	Model	CFM	Supply Air		Exhaust Air		Winter Design			Summer Design		
				E.S.P.	CFM	E.S.P.	CFM	Temp	Air Temp	R.H.	D.B.	W.B.	Air Temp
ER-1	Carnes	WVBA-18	5865	.14	5865	.35	14°	70°	30%	90	76	78°	50%
ER-2	Carnes	WVBA-18	5865	.13	5865	.32	14°	70°	30%	90	76	78°	50%
ER-3	Carnes	WVBA-18	6455	.23	6455	.18	14°	70°	30%	90	76	78°	50%

NOTE: All units weigh 1570 lbs. The curb roof opening is 61¼"x61¼".

A national account for the Carnes recovery units has been established. Allow \$37,300.00 (total) in your bid for the purchase of these units, which includes checkout, testing, and startup.

Address purchase order and questions to:

Multiple Ventilation Products
P.O. Box 4358
Charleston, WV 25364
Attn: Frank McCormick
Phone: 1-800-473-7682

Option 2—As Shown on Sheet M-5

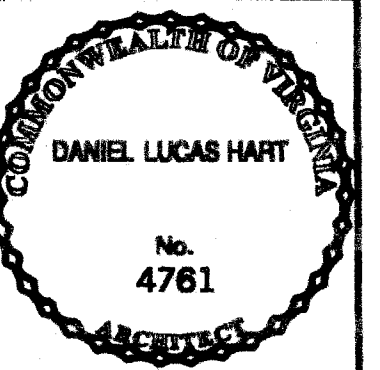
Unit #	Trane Model #	Rated @ 80° E.D.B., 67° E.W.B. and 90° Ambient		Supply Air CFM	Outside Air CFM*	Static Press	Nominal Rating	Heating Capacity		Unit Weight approx. lbs.	Curb Dimens.	Remarks
		MBH Total	MBH Sens					Input MBH	Output MBH			
1	YCD060C4	62.5	43.7	2000	150*	0.4	5 Ton	90	70	800	39¾x73%	
2	YCD090C4	92.0	65.9	3000	250*	0.5	7½ Ton	120	97	900	42¾x77%	2HP Oversized Fan Motor
3												
4	YCD120C4	125.0	93.3	4000	350*	0.4	10 Ton	135	105	1250	42¾x77%	
5	YCD120C4	125.0	93.3	4000	350*	0.4	10 Ton	135	105	1250	42¾x77%	
6	YCD090C4	92.0	65.9	3000	250*	0.5	7½ Ton	120	97	900	42¾x77%	2HP Oversized Fan Motor
7												
8	YCD060C4	62.5	43.7	2000	150*	0.4	5 Ton	90	70	800	39¾x73%	
9	YCD210C4	208.0	146.0	7000	600*	0.6	17½ Ton	250	203	1700	63x98¾	
10	YCD090C4	92.0	65.9	3000	250*	0.5	7½ Ton	120	97	900	42¾x77%	2HP Oversized Fan Motor
11												
12	YCD090C4	92.0	65.9	3000	400*	0.5	7½ Ton	120	97	900	42¾x77%	2HP Oversized Fan Motor
13												
14	YCD060 C4	62.5	43.7	2000	150*	0.4	5 Ton	90	70	800	39¾x73%	
15	YCD060C4	64.1	47.2	2400	0	0.52	5 Ton	90	70	800	39¾x73%	Oversized Indoor Fan Motor

EF-1—Carnes, VEBK08 M1, 950 CFM @ .4 H₂O, 12.3 Sones, 2050 RPM, ¼ HP motor, with roof curb and gravity operated backdraft.

*=Only the portion of the total outside air taken directly in by the rooftop heating/A.C. units. The remainder of the outside air is supplied to the units return airducts from energy recovery units. The total outside air is equal to the values given in Option 1 Schedule.

EF-2,3,4—Carnes, VEDK06, 200 CFM @ .25" H₂O, ½ HP motor, with roof curb and gravity operated backdraft damper.

MECHANICAL DETAILS & SPECS.



Daniel Lucas Hart, AIA, Architect
P.O. Box 1490
Lewisburg, West Virginia 24901
(304) 645-3057

PROJECT NUMBER 9620
DRAWN BY HPH
CHECKED BY DLH
DATE: 11-19-96

SOUTHPOINT SHOWPLACE
for
CDB Theaters Inc.
Fredericksburg, Virginia

DRAWING NUMBER

M-3

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H.V.A.C. Control Sequence

Option #1

1. A programmable thermostat for each Rooftop Unit, #1-14, shall be located in the manager's office. These thermostats shall be equipped with a remote temperature sensor, located on the drawings. During the "occupied" mode, the indoor air fan for the rooftop units #1-14 shall run continuously, and an aux relay from the thermostat shall open the outside air intake damper in the rooftop unit to a preset opening. During the "unoccupied" mode, the indoor fan shall go to normal cycling, and the outside air damper shall close.
2. A rheostat shall be provided for each unit, #1-14, to allow the manager to change the outdoor air intake damper position from the office. These rheostats shall be marked for the normal setting to allow the required outside air cfm for full occupancy.
3. An auxiliary relay on unit #9 thermostat shall control the operation of exhaust fan, EF-1, so that during the zone's "occupied" mode, the fan will operate.
4. Unit #15, serving the Projection Room, shall have a programmable thermostat, with and internal temperature sensor, and shall be located near the return air register for that unit.
5. All Units shall have a smoke detector mounted in the return air duct which will de-energize the unit when activated.

Option #2

1. See #1 above.
2. When Thermostats #1, 2, or 4 are calling for the "occupied" mode of operations from their respective units, an auxiliary relay will energize Energy Recovery Unit #1. Similarly, Thermostats #5, 6, or 8 will control the operation of ER-2, and Thermostats #9, 10, 12, or 14 will control the operation of ER-3.
3. See #3 above.
4. See #4 above.
5. See #5 above.

Mechanical Specifications-Trane

General

Units shall be dedicated downflow or horizontal airflow. Operating range shall be between 115 F and 0 F cooling as standard from the factory for all units. Cooling performance shall be rated in accordance with DOE and/or ARI testing procedures. All units shall be factory assembled, internally wired, fully charged with R-22 and 100 percent run-tested before leaving the factory. Wiring internal to the unit shall be colored and numbered for simplified identification. Units shall be UL listed and labeled, classified in accordance to ANSI Z21.47 for gas fired central furnaces and UL 1995 CAN/CSA No. 236-MGO for central cooling air conditioners. Canadian units shall be CSA certified.

Casing

Unit casing shall be constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized and finished with a weather-resistant baked enamel finish. Unit's surface shall be tested 500 hours in a salt spray test in compliance with ASTM B117. Cabinet construction shall allow for all maintenance on one side of the unit. Service panels shall have lifting handles and be removed and reinstalled by removing only a single fastener on the 3-7 1/2 ton units and not more than three screws on the 8 1/2-25 ton units while providing a water and air tight seal. The downflow unit's base pan shall have no penetrations within the perimeter of the curb other than the raised 1 3/4" high supply/return openings to provide an added water integrity precaution, if the condensate drain backs up. The base of the unit shall have provisions for forklift and crane lifting.

Unit Top

The top cover shall be one piece or where seams exist, it shall be double hemmed and gasket sealed to prevent water leakage.

Indoor Fan

The 3-5 ton units shall have a direct-drive, FC centrifugal fan. Units over 5 tons shall have belt driven, FC centrifugal fans with adjustable motor sheaves. Units over 7 1/2 tons shall have an adjustable idler-arm assembly for quick-adjustment to fan belts and motor sheaves. All motors shall be thermally protected. Oversized motors shall be available for high static operations.

Controls

Unit shall be completely factory wired with necessary controls and contactor pressure lugs or terminal block for power wiring. Units shall provide an external location for mounting fused disconnect device. Micro-processor controls shall be provided for all 24 volt control functions. The resident control algorithms shall make all heating, cooling and/or ventilating decisions in response to electronic signals from sensors measuring indoor and outdoor temperatures. The control algorithm maintains accurate temperature control, minimizes drift from set point and provides better building comfort. A centralized Micro-processor shall provide anti-short cycle timing and time delay between compressors to provide a higher level of machine protection.

Accessories

Roof Curb-Downflow. The roof curb shall be designed to mate with the downflow unit and provide support and a watertight

Filters

One inch, throwaway filters shall be standard in all 3-7 1/2 ton units. Filter rack can be converted to two inch capability. Two inch filters shall be factory supplied on all units above 7 1/2 tons.

Compressors

All 3-17 1/2 ton units shall be direct-drive hermetic, reciprocating type compressor(s) with centrifugal oil pump providing positive lubrication to moving parts. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of unit nameplate voltage.

Crankcase heater, internal temperature and current-sensitive motor overloads shall be included for maximum protection. Shall have internal spring isolation and sound muffling to minimize vibration transmission and noise. External high pressure cutout shall be provided on 15 and 17 1/2 ton models. Low pressure switches shall be standard.

All 20 and 25 ton units shall be direct-drive, hermetic, scroll type compressor(s) with gear type oil pump providing positive lubrication to moving parts. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of unit nameplate voltage. Internal temperature and current sensitive motor overloads shall be included for maximum protection. Shall have internal spring isolation and sound muffling to minimize vibration transmission and noise. External discharge temperature limit, winding temperature limit and compressor overload shall be provided.

Refrigerant Circuits

Each refrigerant circuit shall have independent fixed orifice expansion devices, service pressure ports and refrigerant line filter driers factory installed as standard. An area shall be provided for replacement suction line driers.

installation when installed properly. The roof curb design shall allow field-fabricated rectangular supply/return ductwork to be connected directly to the curb. Curb design shall comply with NRCA requirements. Curb shall ship knocked down for field assembly and include wood nailer strips.

Economizer-Downflow. This accessory shall be either field or factory installed. The assembly includes fully modulating 0-100 percent motor and dampers, barometric relief, minimum position setting, preset linkage, wiring harness with plug and fixed dry bulb control. Solid state enthalpy and differential enthalpy control shall be a factory supplied, field-installed accessory. The factory-installed economizer arrives in the shipping position and shall be moved to the operating position by the installing contractor.

Remote Potentiometer. The minimum position setting of economizer shall be adjusted with this accessory. **OPTION ONE ONLY.**

Powered Exhaust. The powered exhaust for 6 1/2 ton downflow units shall assist the barometric relief damper in the economizer in relieving building pressurization. **OPTION ONE ONLY.**

Motorized Outside Air Dampers. Manually set outdoor air dampers shall provide up to 50 percent outside air. Once set, outdoor air dampers shall open to set position when indoor fan starts (but an override on this to open only during desired times). The damper shall close to the full closed position when indoor fan shuts down or when the zone being

Evaporator And Condenser Coils

Internally finned 3/8" copper tubes mechanically bonded to configured aluminum plate fin shall be standard. Coils shall be leak tested at the factory to ensure pressure integrity. The evaporator coil and condenser coil shall be leak tested to 200 psig and pressure tested to 450 psig.

Gas Heating Section

The heating section shall have a drum and tube heat exchanger design using corrosion resistant steel components. A forced combustion blower shall supply premixed fuel to a single burner ignited by a pilotless hot surface ignition system. In order to provide reliable operation, a negative pressure gas valve shall be used that requires blower operation to initiate gas flow. On an initial call for heat, the combustion blower shall purge the heat exchanger 45 seconds before ignition. After three unsuccessful ignition attempts, the entire heating system shall be locked out until manually reset at the thermostat. Units shall be suitable for use with natural gas or propane (field installed kit) and also comply with California requirements for low NOx emissions.

Units under 5 tons shall have a single stage high or low heat option. The 6 1/2 and 7 1/2 ton units shall have either single or two stage heating options and the 8 1/2 through 25 ton units shall have two stage heating.

Outdoor Fans

The outdoor fans shall be direct-drive, statically and dynamically balanced, draw through in the vertical discharge position. The fan motor(s) shall be permanently lubricated and have built-in thermal overload protection.

served is unoccupied. This option shall be available for the 6 1/2-25 ton models. **OPTION ONE ONLY.**

Manual Outside Air Damper-Field. Installed rain hood and screen shall provide up to 25% outside air. **OPTION TWO ONLY.**

Oversized Motors-Field. and factory installed oversized motors shall be available for high static applications. Refer to Schedule for applicable units.

Low Static Drive-Field. Installed low static drive option shall allow the standard motor to operate at lower static performance. (See Fan Performance tables.)

High Static Drive-Field. Installed high static drive option shall allow the standard motor to operate with improved external static capabilities.

Insulation Kit-Field. Installed on 3-7 1/2 ton horizontal units to prevent high humidity condensation forming on bottom of unit when mounted on a downflow curb.

Control Options

Zone Sensors. Shall be provided to interface with the Micro equipped Voyagers and shall be available in either manual, automatic programmable with night setback, with system malfunction lights or remote sensor options.

ENERGY RECOVERY SCHEDULE-Option Two Only

Operating Sequence:

Unit will receive signal from building control system to energize. Exhaust Fan Blower and Recovery Wheel will start, the Supply Fan Blower will start shortly after. (This allows the recovery media to become "charged" with building heat/cool after being off in night setback.)

The units will have a factory installed "High" Temperature T'stat which will be set at 70 degrees. The units will have a factory installed "Low" Temperature T'stat which will be set at 55 degrees.

These High and Low T'stats sense the outside incoming temperature and control the start/stop rotation of the energy wheel only. THE FAN BLOWERS WILL CONTINUE RUN.

During the heating cycle The Energy Wheel will Rotate to recover heat from the exhaust air up to 66 degrees outside air temperature. The wheel stops turning at 65 degrees because at this point overheating of the outside air could occur, causing the primary units inside the building to start cooling. Where the untempered 55 degrees supplied to the primary units inside the building may not require any additional tempering before supplying the fresh air on to the occupied space.

The Energy Recovery Wheel will continue to not rotate until the outside air temperature reaches 70 degrees at which point, the Total system will be in the cooling cycle and the Recovery Wheel will begin to Rotate to recover the energy from the cooler, dryer exhaust air to transfer to the supply air side of the unit

THE ENERGY RECOVERY WHEEL WILL NOT TURN BETWEEN 55 DEGREES AND 70 DEGREES OUTSIDE AIR. THE SUPPLY AND EXHAUST FANS SHOULD ALWAYS RUN DURING THE "OCCUPIED" MODE.

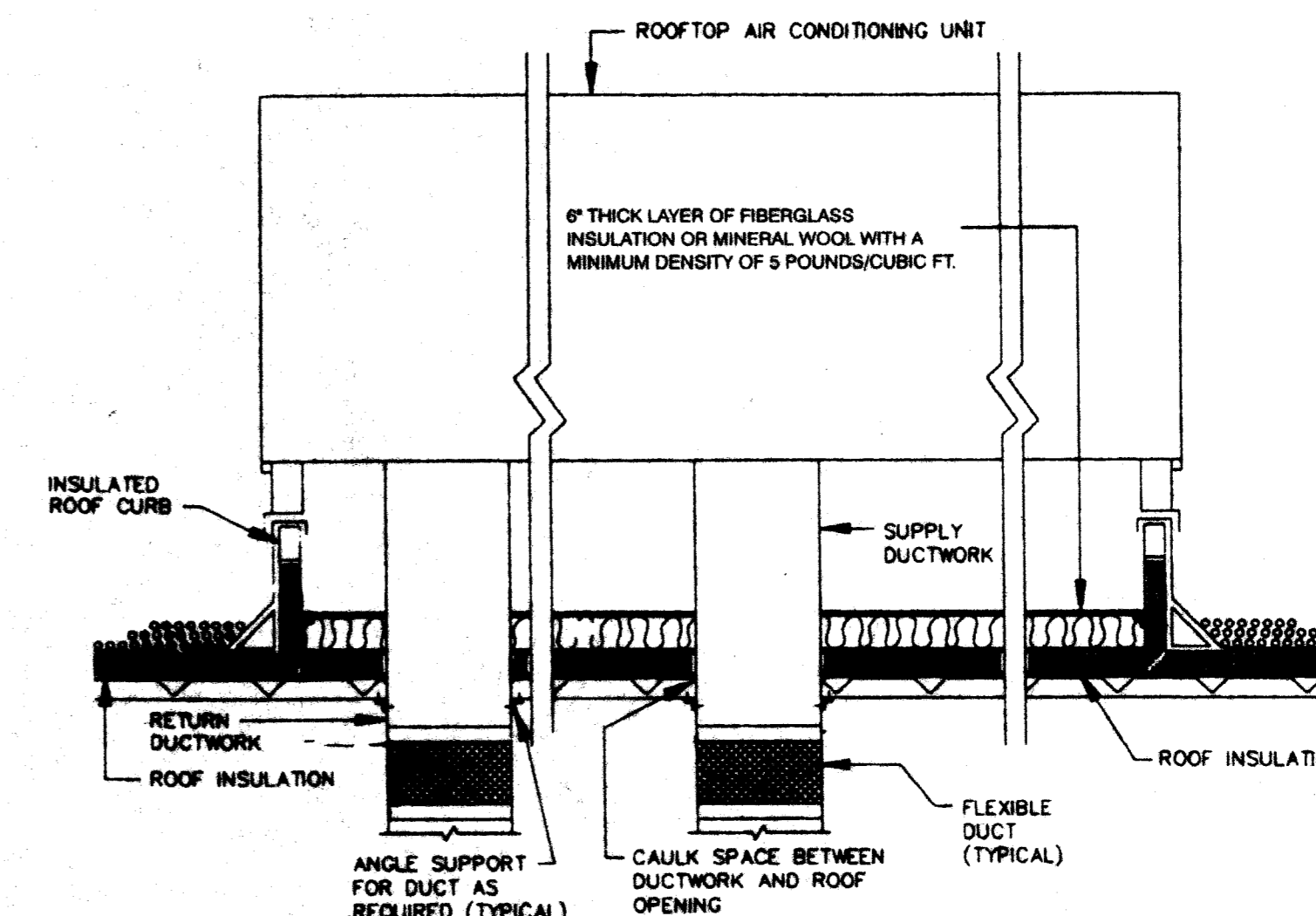
- 1) Energy recovery units manufactured by CARNES CO.
- 2) Units equipped with supply & exhaust fans, constant speed driven rotary heat exchangers series 300 aluminum latent wheel media with extended lubrication lines on ER wheel Bearings.
2" moisture eliminator/permanent aluminum supply/intake filters, 2" permanent aluminum filters at exhaust inlet to units.

Combination NEMA 3R enclosed motor starter/fused disconnect, 12" High Roof Curb. Motorized intake damper mounted on unit inlet, Gravity Backdraft Damper Mounted on Exhaust outlet. Foil Faced Housing insulation.

- 3) All units are 480V/3 phase, one point power connection with control transformer for Motorized Damper.

4) EXECUTION

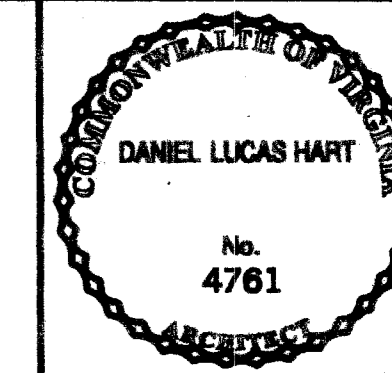
- 3.1 Installation
 - A. Install curb on roof.
 - B. Mount unit on curb. Install units on vibration rails on curbs as noted herein.
 - C. Make duct connections with flexible connectors. Install drain lines.
- 3.2 Project Closeout
 - A. Provide factory authorized start-up of equipment.
 - B. Test performance of each unit and submit written report of test results.
 1. Bind report in plastic cover.



- NOTES
1. CUT ROOF OPENINGS JUST LARGE ENOUGH TO ACCOMMODATE SUPPLY AND RETURN DUCTWORK. CAULK AIR TIGHT THE SPACE BETWEEN DUCTWORK AND ROOF OPENINGS.
 2. PROVIDE 5 # DENSITY INSULATION UNDER UNIT ON TOP OF ROOF AND INSIDE ROOF CURB.
 3. ROOF INSULATION SHALL EXTEND UNDER UNIT.

ROOFTOP AIR CONDITIONING UNIT

MECHANICAL DETAILS & SPECS.



Daniel Lucas Hart, AIA, Architect
P.O. Box 1490
Lewisburg, West Virginia 24901
(304) 645-3057

PROJECT NUMBER
9620
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SOUTHPOINT SHOWPLACE
for
CDB Theaters Inc.
Fredericksburg, Virginia

DRAWING NUMBER

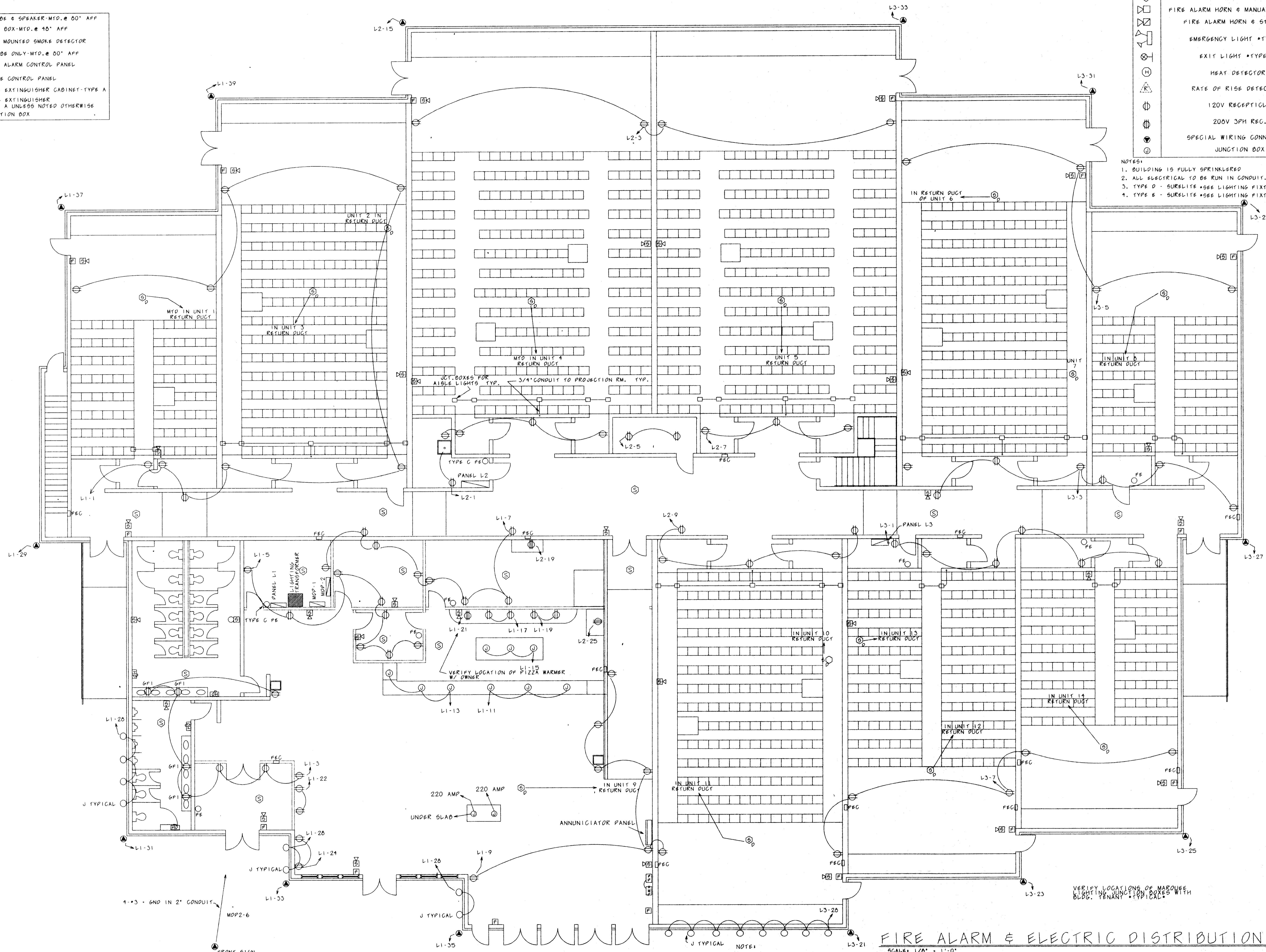
M-4

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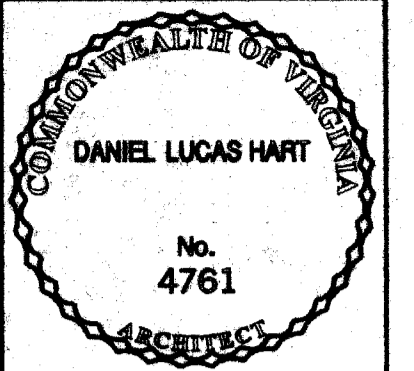
- ☐ --- STROBE & SPEAKER-MTD. @ 00' AFF
- ☐ --- PULL BOX-MTD. @ 90' AFF
- ⊙ --- DUCT MOUNTED SMOKE DETECTOR
- ⊙ --- STROBE ONLY-MTD. @ 00' AFF
- ☐ --- FIRE ALARM CONTROL PANEL
- ☐ --- VOICE CONTROL PANEL
- ☐ --- FIRE EXTINGUISHER CABINET-TYPE A
- ☐ --- FIRE EXTINGUISHER TYPE A UNLESS NOTED OTHERWISE
- ⊙ --- JUNCTION BOX

ELECTRICAL SYMBOLS	
SYMBOL	DESCRIPTION
⊙	SMOKE DETECTOR
☐	FIRE ALARM HORN & MANUAL PULL STATION
☐	FIRE ALARM HORN & STROBE LIGHT
☐	EMERGENCY LIGHT *TYPE B*
☐	EXIT LIGHT *TYPE D*
☐	HEAT DETECTOR
☐	RATE OF RISE DETECTOR
⊙	120V RECEPTACLE
⊙	200V 3PH REC.
⊙	SPECIAL WIRING CONNECTION
⊙	JUNCTION BOX

- NOTES:
1. BUILDING IS FULLY SPRINKLERED
 2. ALL ELECTRICAL TO BE RUN IN CONDUIT.
 3. TYPE D - SURELITE *SEE LIGHTING FIXTURE SCHEDULE*
 4. TYPE B - SURELITE *SEE LIGHTING FIXTURE SCHEDULE*



FIRE ALARM & ELECTRIC DISTRIBUTION PLAN
SCALE: 1/8" = 1'-0"



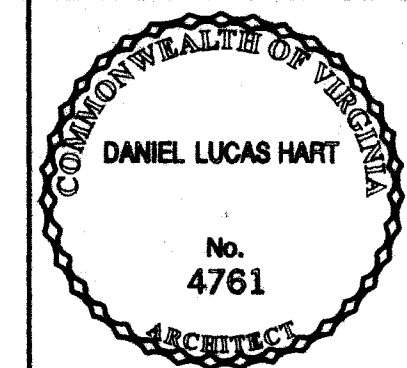
Daniel Lucas Hart, AIA, Architect
P.O. Box 1490
Lewisburg, West Virginia 24901
(304) 645-3057

PROJECT NUMBER
9620
DRAWN BY HPH
CHECKED BY DLH
DATE: 11-19-96

SOUTHPOINT SHOWPLACE
for
CDB Theaters Inc.
Fredericksburg, Virginia

REVISED
02-13-97
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E-1
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Daniel Lucas Hart, AIA, Architect
 P.O. Box 1490
 Lewisburg, West Virginia 24901
 (304) 645-3057

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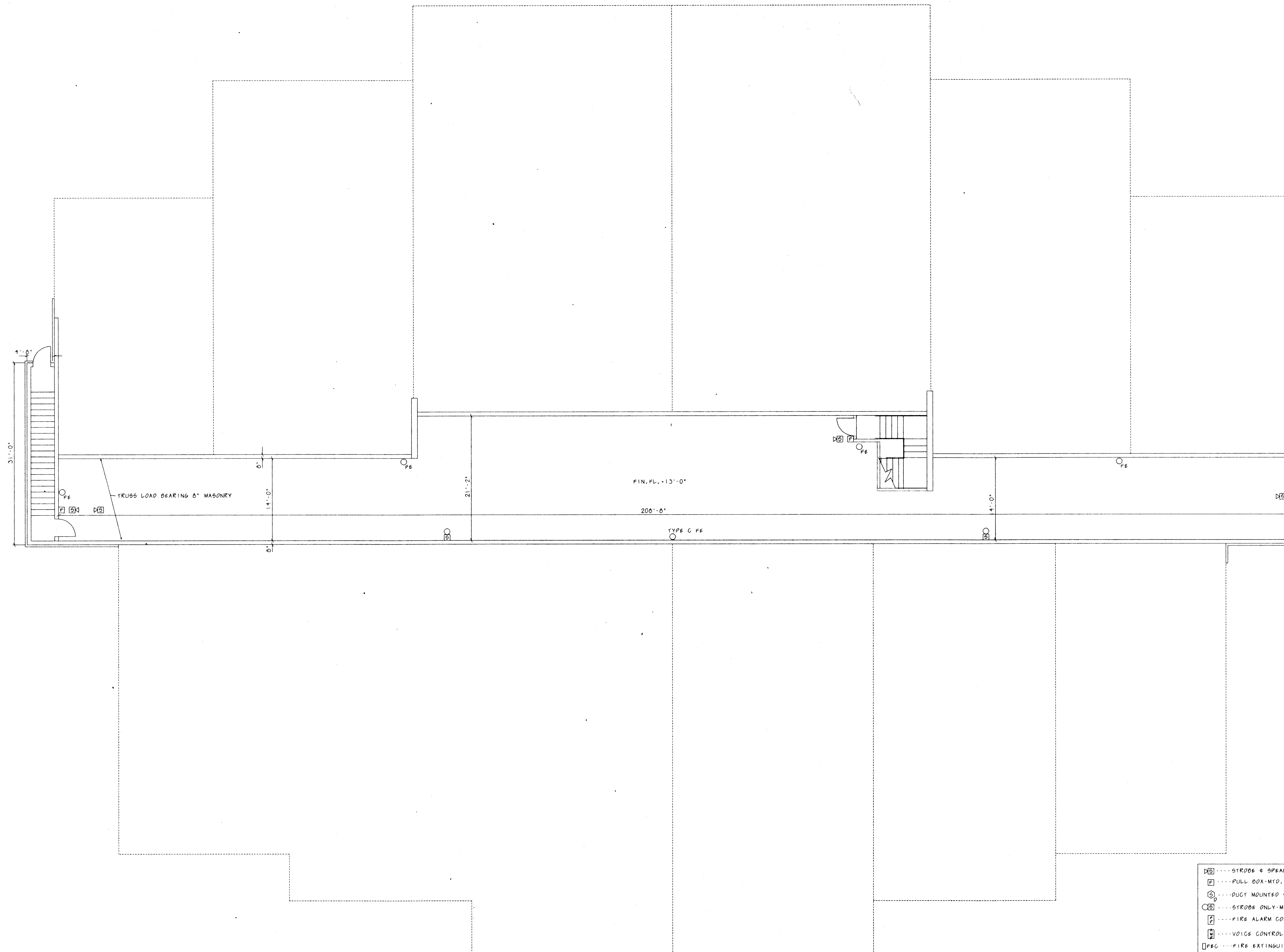
SOUTHPOINT SHOWPLACE
 for
CDB Theaters Inc.
 Fredericksburg, Virginia

REVISED
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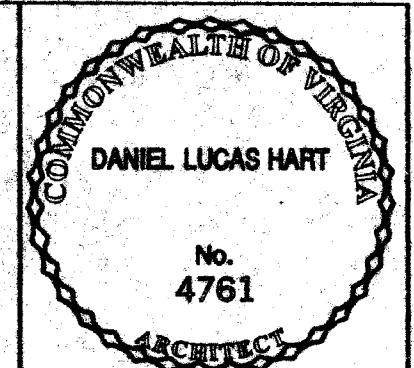
E-2

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- ☐ STROBE & SPEAKER-MTD. @ 90° AFF
- ☐ PULL BOX-MTD. @ 90° AFF
- ⊙ DUCT MOUNTED SMOKE DETECTOR
- ☐ STROBE ONLY-MTD. @ 90° AFF
- ☐ FIRE ALARM CONTROL PANEL
- ☐ VOICE CONTROL PANEL
- ☐ FIRE EXTINGUISHER CABINET-TYPE A
- ☐ FIRE EXTINGUISHER TYPE A UNLESS NOTED OTHERWISE

PROJECTION ROOM FLOOR PLAN
 SCALE: 1/8" = 1'-0"



Daniel Lucas Hart, AIA, Architect
P.O. Box 1490
Lewisburg, West Virginia 24901
(304) 645-3057

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SOUTHPOINT SHOWPLACE
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Fredericksburg, Virginia

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E-3

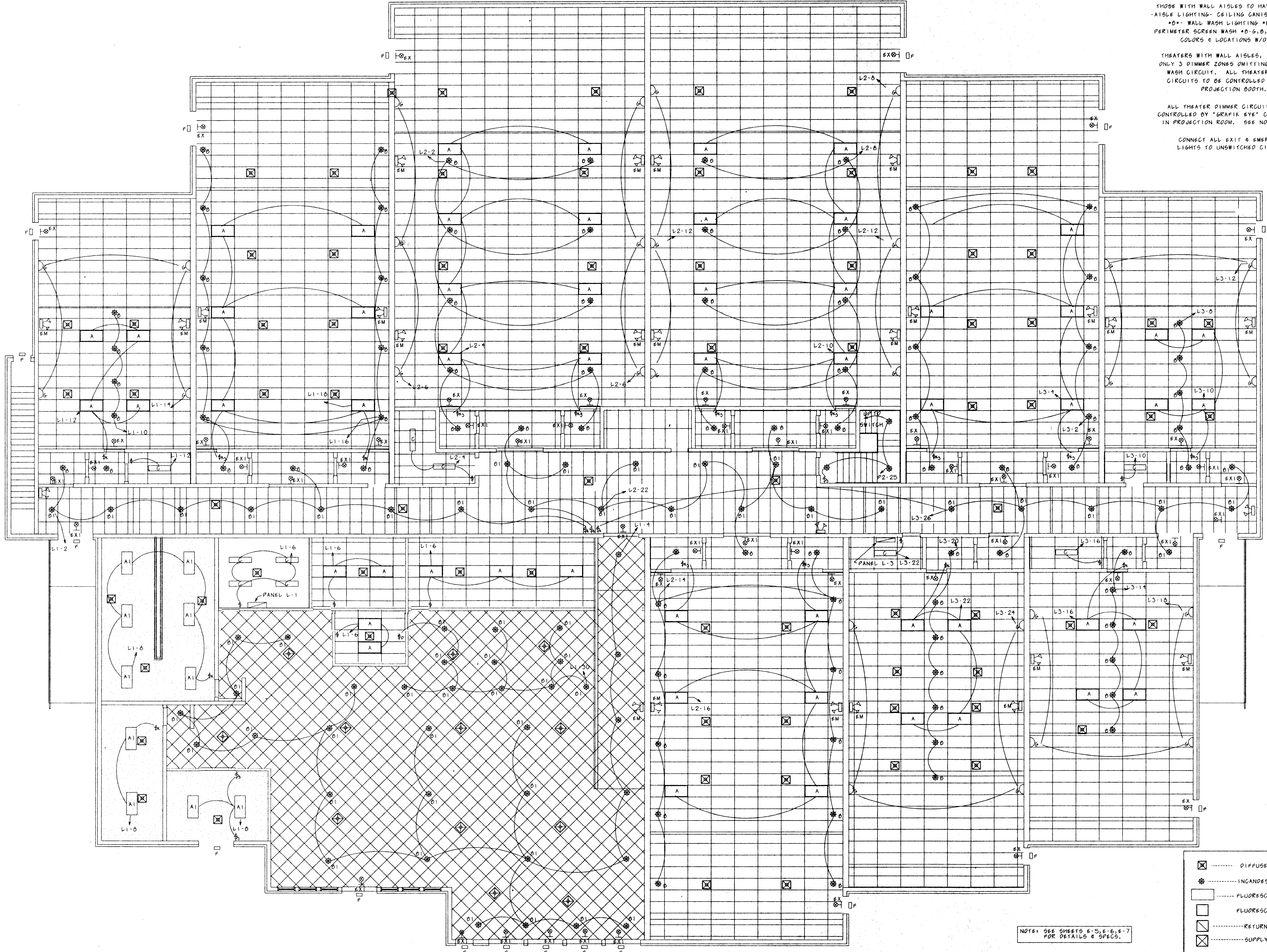
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LIGHTING NOTES:
DIMMER CIRCUITS - EACH THEATER EXCEPT THOSE WITH WALL AISLES TO HAVE 4 ZONES - AISLE LIGHTING - CEILING CANISTER LIGHTING
*D+ - WALL WASH LIGHTING *D+ - AND PERIMETER SCREEN WASH *D-G, D-R - VERIFY COLORS & LOCATIONS W/OWNER.

THEATERS WITH WALL AISLES, WILL HAVE ONLY 3 DIMMER ZONES OMITTING THE WALL WASH CIRCUIT. ALL THEATER DIMMER CIRCUITS TO BE CONTROLLED FROM THE PROJECTION BOOTH.

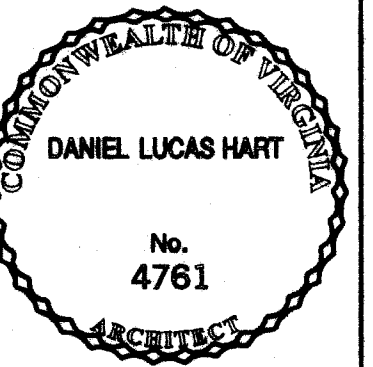
ALL THEATER DIMMER CIRCUITS TO BE CONTROLLED BY "GRAFIK EYE" CONTROLLERS IN PROJECTION ROOM. SEE NOTE ON E-4

CONNECT ALL EXIT & EMERGENCY LIGHTS TO UNSWITCHED CIRCUITS.



NOTE: SEE SHEETS E-5, E-6, E-7 FOR DETAILS & SPECS.

REFLECTED CEILING/LIGHTING PLAN
SCALE: 1/8" = 1'-0"



Daniel Lucas Hart, AIA, Architect
 P.O. Box 1490
 Lewisburg, West Virginia 24901
 (304) 645-3057

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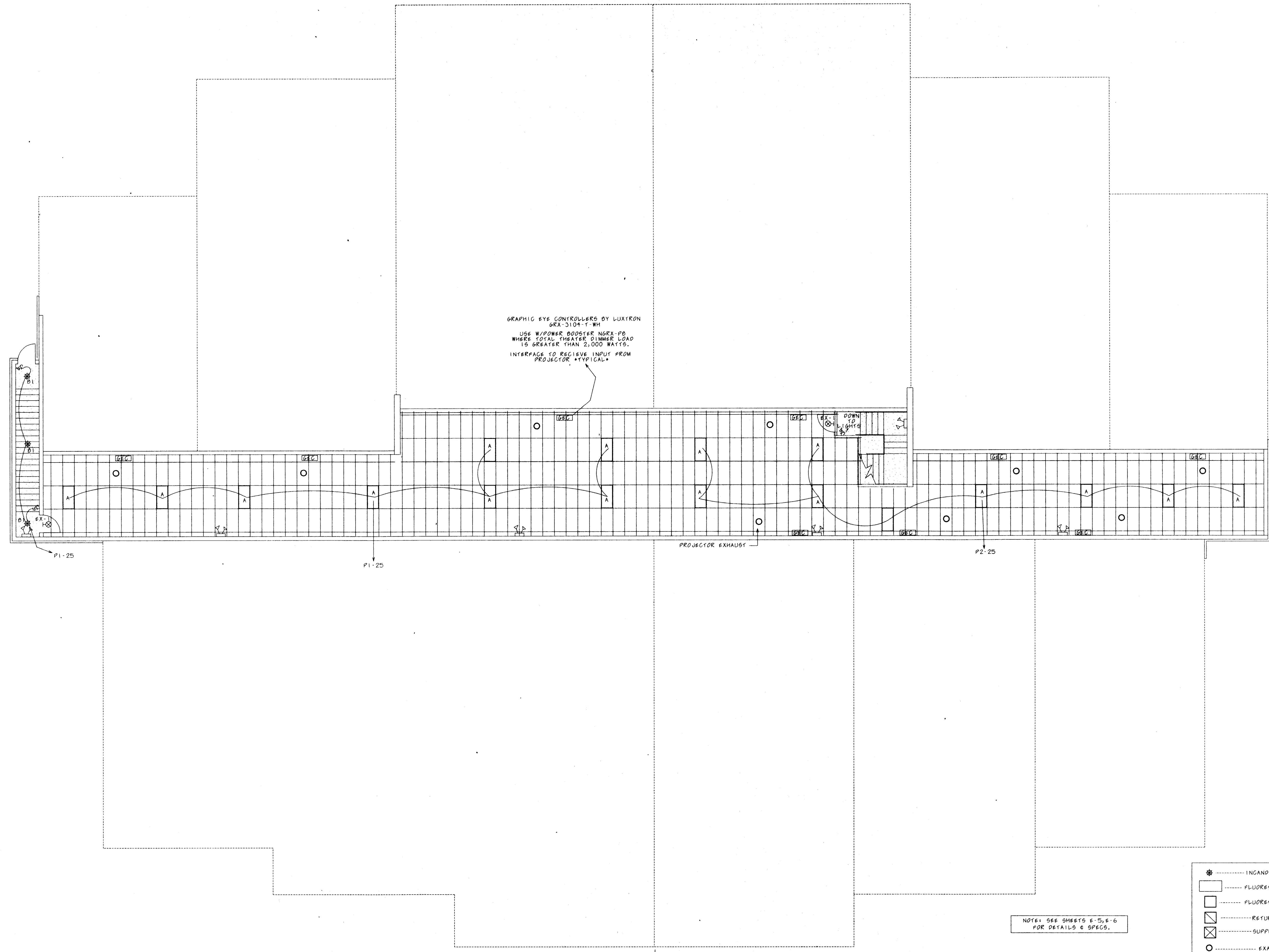
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E-4

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- ◆ INCANDESCENT FIXTURE
- FLUORESCENT FIXTURE
- FLUORESCENT FIXTURE
- RETURN GRILLE
- ⊗ SUPPLY GRILLE
- EXHAUST FAN
- GYP. DD.

PROJECTION ROOM REFLECTED CEILING/LIGHTING PLAN
 SCALE: 1/8" = 1'-0"

480V Main Distribution Panel M1

(480V, 3 ϕ , 4 Wire)
Siemens Sentron Panel Type S2, 600 Amp M.B., 65,000 I. A., Flush Mounted

	Circuit #	Size	Wire	Conduit	Description
Option #1	1	300A	300MCM	3"	Lighting Transformer
	2	150A	1/0	2"	Panel AC1
	3	100A	#2	2"	Panel AC2
	4	100A	#1	2"	Panel AC3
Option #2	2	100A	#2	2"	Panel AC1
	3	80A	#2	2"	Panel AC2
	4	80A	#2	2"	Panel AC3

208V Main Distribution Panel M2

(208V, 3 ϕ , 4 Wire)
Siemens Sentron Panel Type S2, 600 Amp M.B., 65,000 I. A., Flush Mounted

	Circuit #	Size	Wire	Conduit	Poles	Description
	1	150A	#1	1 1/2"	3	Lighting Panel L1
	2	100A	#3	1 1/2"	3	Panel L2
	3	100A	#3	1 1/2"	3	Panel L3
	4	200A	3/0	2"	3	Panel P1
	5	200A	3/0	2"	3	Panel P2
	6	20A	3/0	2"	3	Front Sign

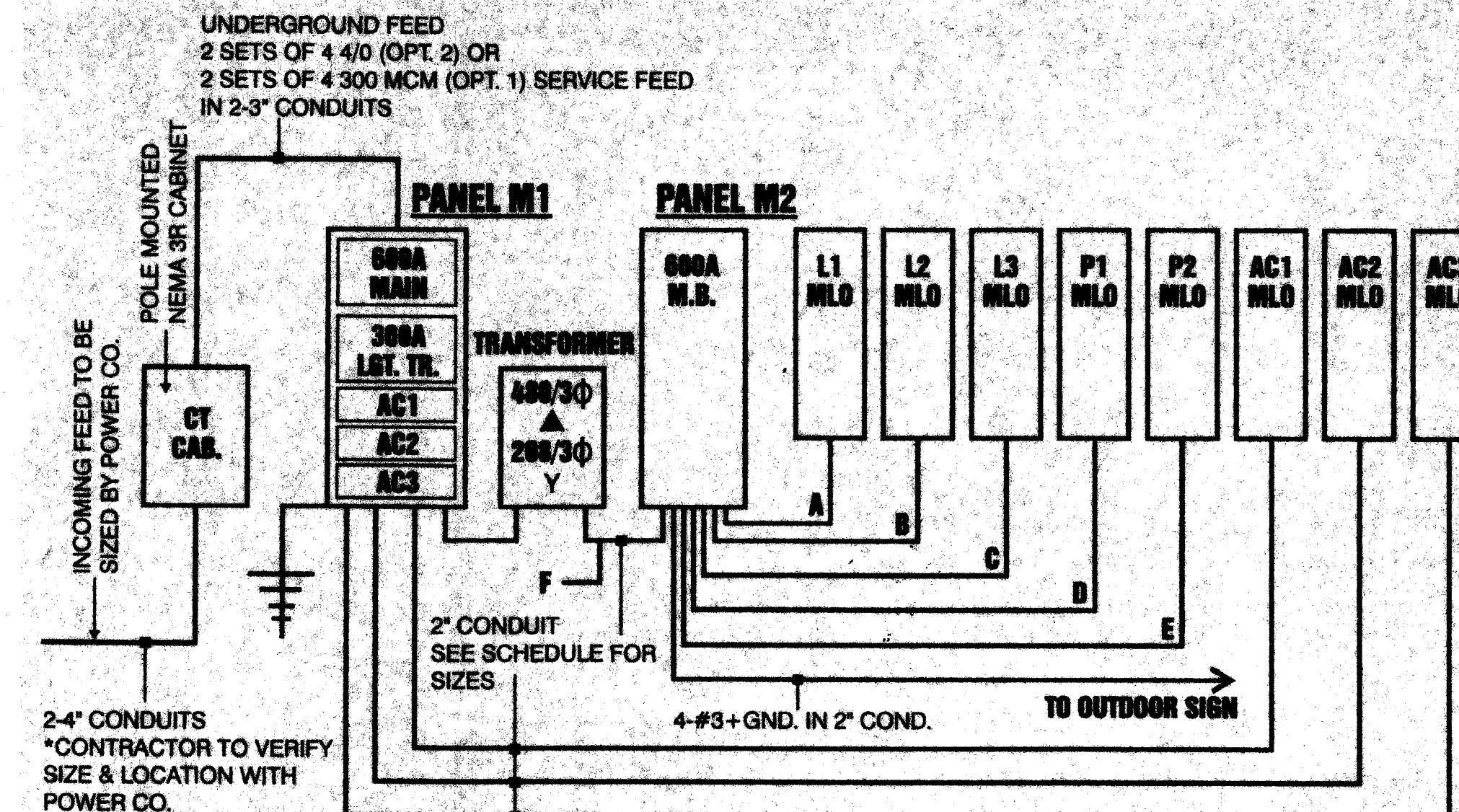
Total Connected Load (KW)

Option Two

	Summer (kw)	Winter (kw)
Lights	33.0	33.0
Outlets, including Sound System	52.6	52.6
Equipment	101.4	101.4
Signs & Neon	27.3	27.3
HVAC Equipment	202.7	66.1
TOTAL	417.0	280.4

Option One

	Summer (kw)	Winter (kw)
Lights	33.0	33.0
Outlets, including Sound System	52.6	52.6
Equipment	101.4	101.4
Signs & Neon	27.3	27.3
HVAC Equipment	251.8	48.7
TOTAL	466.1	263.0



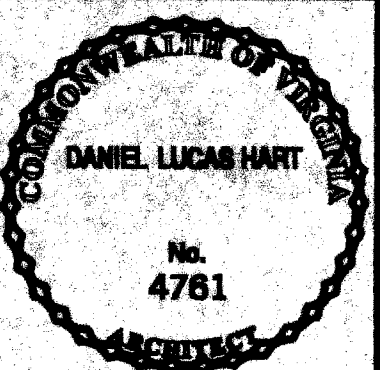
NOTES

- A-4-#3+GND. IN 1 1/2" COND. GROUND PER NEC
- B-4-#3+GND. IN 1 1/2" COND.
- C-4-#3+GND. IN 1 1/2" COND.
- D-4-3/0+GND. IN 2" COND.
- E-4-3/0+GND. IN 2" COND.
- F-2 SETS OF 4-350 MCM IN 2"-3" CONDUITS

Light Description List

Type	Catalog Number	Description	Lamp	Brand
A	2G440A-120-LE3	2x4 Fluorescent	4-40 watt	Metalox**
A1	2FP440A-120-LE3	2x4 Fluorescent	4-40 watt	Metalox ¹
B	H7T-310P	Recessed	75 Par 30	HALO ²
B1	H7T-310W	Recessed	75 Par 30	HALO ³
C	SS240-120-LE3	Surface Mounted Strip	2-40 watt	Metalox*
D1	Carpet to wall extrusion			Tivoli ⁵
D	ALCE-ADA-CL-4-XX			Tivoli ⁵
DTrs.	TR250CBH2			Tivoli ⁵
EM	CC-4-BK	Emergency Light	Par 36	Sure-Lites ⁴
EX	CCX-7070GBK	Emergency Light Green Lense	LED	Sure-Lites ⁴
EX1	CCX-7070RBK	Emergency Light Red Lense	LED	Sure-Lites ⁴
F	TTUCPP27N120V-EBP	Wall Mounted Exit Discharge Light	2-13 watt	Fail-Safe ^{4,6}
G	H2573B	Wall Mounted Sconce	75 watt incandescence	HALO

- *=Energy Saving Ballast
- **=Provide pulcord & switch for projection room lights
- 1=For mounting in drywall cig.
- 2=Black Baffle
- 3=White Baffle
- 4=Connect to unswitched circuit per NEC
- 5=Furnished and installed by building tenant
- 6=Provide with emergency battery pack. Mount centered over door @ 8'-0" A.F.F.



Daniel Lucas Hart, AIA, Architect
P.O. Box 1490
Lewisburg, West Virginia 24901
(304) 645-3057

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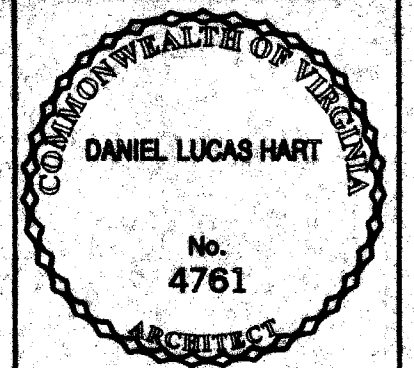
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LIGHT FIXTURE DETAILS



Daniel Lucas Hart, AIA, Architect
 P.O. Box 1490
 Lewisburg, West Virginia 24901
 (304) 645-3057

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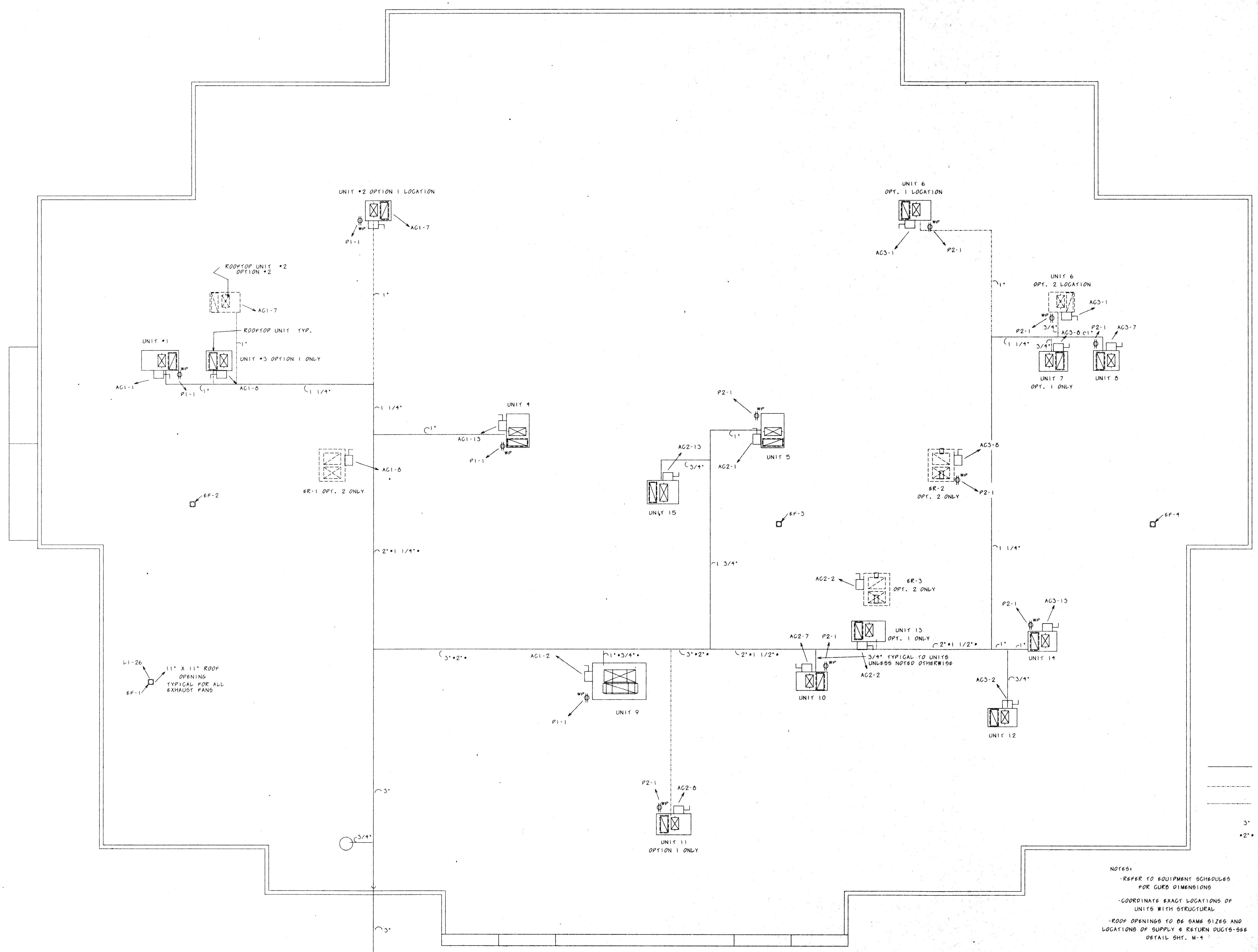
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GAS & ELECTRICAL ROOF PLAN
 SCALE: 1/8" = 1'-0"