

ATLAS
GREENHOUSE

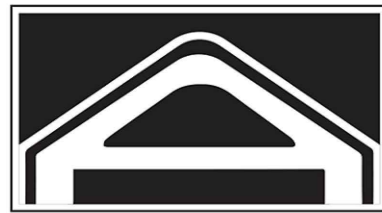
WATAUGA CC NCSU CE

971 West King Street • Boone, NC 28607

Scholar Series Greenhouse

DRAWING INDEX

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G1	GENERAL NOTES & DESIGN BASIS
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ATLAS
GREENHOUSE
9596 Hwy 82 Alapaha, GA 31622
Ph: 800-346-9902 / Fax: 229-532-4600
www.atlasgreenhouse.com

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PROJECT
**SCHOLAR SERIES
GREENHOUSE**

PROJECT ADDRESS
971 West King Street
Boone, NC 28607

CUSTOMER
WATAUGA CC NCSU CE

CUSTOMER ADDRESS
971 West King Street
Boone, NC 28607

Engineer's Seal

ENGINEER'S SEAL APPLIES TO DESIGN
OF STRUCTURAL COMPONENTS ONLY



REVIEWED
By Richard T Smith at 5:06 pm, Mar 31, 2025

PROJECT NUMBER
E-24-076-S

SHEET TITLE
TITLE SHEET

DRAWN BY
PL

DATE
2/4/25

SHEET NUMBER

T1

GENERAL NOTES

DESIGN BASIS:

2018 NORTH CAROLINA BUILDING CODE / 2015 IBC, CHAPTER 16 / ASCE 7-16

RISK CATEGORY	II
DEAD LOAD	D = 4 psf
ROOF LIVE LOAD	L = 12 psf min. or snow
COLLATERAL LOAD	C = 270 lbs hanging baskets

SNOW DESIGN

GROUND SNOW LOAD	P _g = 63 psf
SNOW EXPOSURE FACTOR	C _e = 1.0
SNOW LOAD IMPORTANCE FACTOR	I = 1.0
THERMAL FACTOR	C _t = 0.85
ROOF SNOW LOAD	P _f = 0.7*C _e *C _t *I*P _g = 37 psf
MINIMUM ROOF SNOW LOAD	P _{f,min} = 37 psf

WIND DESIGN

ULTIMATE WIND SPEED (3 SECOND GUST)	V _{ult} = 115 mph
NOMINAL WIND SPEED (3 SECOND GUST)	V _{asd} = 89 mph
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	GC _{pi} = +/- 0.18
BASIC WIND PRESSURE	q = 22.2 psf

SEISMIC DESIGN

SEISMIC IMPORTANCE FACTOR	I = 1.00
SPECTRAL RESPONSE ACCELERATION	S _s = 0.262
SPECTRAL RESPONSE ACCELERATION	S ₁ = 0.097
SITE CLASS	D
SPECTRAL RESPONSE COEFFICIENT	S _{DS} = 0.278
SPECTRAL RESPONSE COEFFICIENT	S _{D1} = 0.155
SEISMIC DESIGN CATEGORY	C
EQUIVALENT LATERAL FORCE PROCEDURE	
DESIGN BASE SHEAR	V = 0.09 x W
RESPONSE MODIFICATION FACTOR	R = 3
SEISMIC RESPONSE COEFFICIENT	C _s = 0.09

ATLAS GREENHOUSE, LLC. DISCLAIMS ALL RESPONSIBILITY FOR ANY INJURY OR DAMAGE CAUSED BY THE GREENHOUSE OR EQUIPMENT. IT IS THE CUSTOMER'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS.

ATLAS GREENHOUSE, LLC. CANNOT AND WILL NOT BE HELD RESPONSIBLE FOR PRODUCT FAILURE WHERE EXCESSIVE WEATHER CONDITIONS SUCH AS SNOW, WIND, FIRE, OR HAIL HAVE OCCURRED AND SUCH OCCURRENCES HAVE EXCEEDED THE DESIGN LOADS STATED IN ENGINEERING SPECIFICATIONS.

FURTHERMORE, ATLAS GREENHOUSE, LLC. CANNOT AND WILL NOT BE HELD RESPONSIBLE FOR PRODUCT FAILURE DUE TO IMPROPER INSTALLATION OR FAILURE TO FOLLOW THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

IT IS THE CUSTOMER'S RESPONSIBILITY TO UNDERSTAND: PROPER INSTALLATION AND MAINTENANCE AS DESCRIBED IN THIS MANUAL IS VITAL IN ACHIEVING SNOW AND WIND LOAD RATINGS. ATLAS DISCLAIMS ALL RESPONSIBILITIES OF ANY INJURY OR DAMAGE CAUSED BY THE GREENHOUSES OR EQUIPMENT.

!! IMPORTANT!!

Footings and/or foundations shown in the drawings are designed using assumed soil properties and values in the absence of a site specific soil report. Soil types and densities may vary from location to location even within your county. If a soil report can be provided, the design values can be checked more accurately. Fiber reinforced concrete is recommended for the slab to reduce the risk of shrink cracking. If heavy vehicle or equipment will be used, additional reinforcement of the slab is recommended. Proceeding with installation of the foundation and slab as designed implies acceptance of the assumed properties and risk. Details are typical, unless specified by "others".

FOUNDATION CONSTRUCTION

GREENHOUSE COLUMN POSTS MUST BE SET AT SIDEWALL HEIGHT SPECIFIED ON DRAWINGS. ALL GRADES ON GROUND AND/OR FOUNDATIONS SHALL BE ADEQUATE FOR PROPER WATER DISPERSAL FROM GUTTERS BASED ON AVERAGE RAINFALL FOR INTENDED AREA.

STUB UPS

- WATER AND ELECTRICAL STUB UPS ARE TO BE LOCATED ON THE INSIDE OF THE GREENHOUSE.
- ELECTRICAL STUB UP - BASED ON 2" DIA. - IS TYPICALLY PLACED 8" ON CENTER FROM THE OUTER MOST EDGE OF THE FOUNDATION AND, IF APPLICABLE, LOCATED BEHIND AN END WALL STUD. ELEVATION & FOUNDATION SHEETS WILL INDICATE NECESSARY DETAILS.
- WATER STUB UP - 1" DIA. TYPICAL - GALVANIZED AND IS ABOVE FINISHED FLOOR A MINIMUM OF 8".
- ANY PLUMBING BEYOND WATER STUB UP IS ABOVE FINISHED FLOOR USING (3/4" DIA.) PVC PIPING.
- ALL GAS & GAS LINES WILL BE PROVIDED BY OTHERS AFTER THE CONSTRUCTION OF THE GREENHOUSE IS COMPLETED.
- GAS STUB UP WILL BE LOCATED OUTSIDE THE GREENHOUSE AND DEPENDING ON THE HEATER LOCATION, ENTER THROUGH THE SIDE WALL OR THE END WALL AND ABOVE FINISHED FLOOR OF THE GREENHOUSE.



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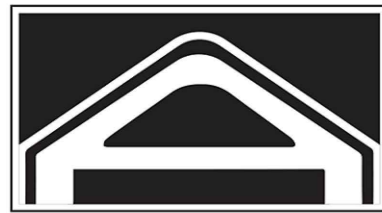
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G1

ABBREVIATIONS

(NOT ALL ABBREVIATIONS WILL APPLY TO THIS PROJECT)

AB - ANCHOR BOLT	DIA/Ø - DIAMETER	HORIZ - HORIZONTAL	SECT - SECTION
AFF - ABOVE FINISHED	DIAG - DIAGONAL	IBC - INTERNATIONAL	SF - SQUARE FEET
FLOOR	DIM - DIMENSION	BUILDING CODE	SLP - SLOPE
ALUM - ALUMINUM	DWG - DRAWING	ID - INSIDE DIAMETER	SOG - SLAB ON GRADE
ANCH - ANCHOR,	EL - ELEVATION	IN - INCHES	SPA - SPACED, SPACING, SPACES
ANCHORAGE	ELEC - ELECTRICAL	INFO - INFORMATION	SPEC - SPECIFICATION
APPROX - APPROXIMATE	EOS - EDGE OF SLAB	INT - INTERIOR	SQ - SQUARE
BOS - BOTTOM OF STEEL	EQ - EQUAL	ITC - INSIDE TO CENTER	SS - STAINLESS STEEL
BOTT - BOTTOM	EQPT - EQUIPMENT	No. - NUMBER	STD - STANDARD
BTWN - BETWEEN	EXIST - EXISTING	NOM - NOMINAL	SYS - SYSTEM
CC - CENTER TO CENTER	EXT - EXTERIOR	NTS - NOT TO SCALE	TOC - TOP OF CONCRETE
CL/℄ - CENTER LINE	FD - FLOOR DRAIN	OC - ON CENTER	TOPL - TOP OF PLATE
CLR - CLEARANCE, CLEAR	FDN - FOUNDATION	OD - OUTSIDE DIAMETER	TOS - TOP OF STEEL
COL - COLUMN	FF - FINISHED FLOOR	OPNG - OPENING	TOSL - TOP OF SLAB
CONC - CONCRETE	GA - GAUGE	OTC - OUTSIDE TO CENTER	TYP - TYPICAL
CONT - CONTINUOUS	GALV - GALVANIZED	PL - PLATE	UNO - UNLESS NOTED OTHERWISE
CTR - CENTER	GR - GRADE	PREFAB - PREFABRICATED	VERT - VERTICAL
CTRD - CENTERED	GRND - GROUND	PRELIM - PRELIMINARY	WI - WITH
DEG/° - DEGREES	HDR - HEADER	REV - REVISION	W/O - WITHOUT
DET - DETAIL	HGT - HEIGHT	SCHED - SCHEDULE	



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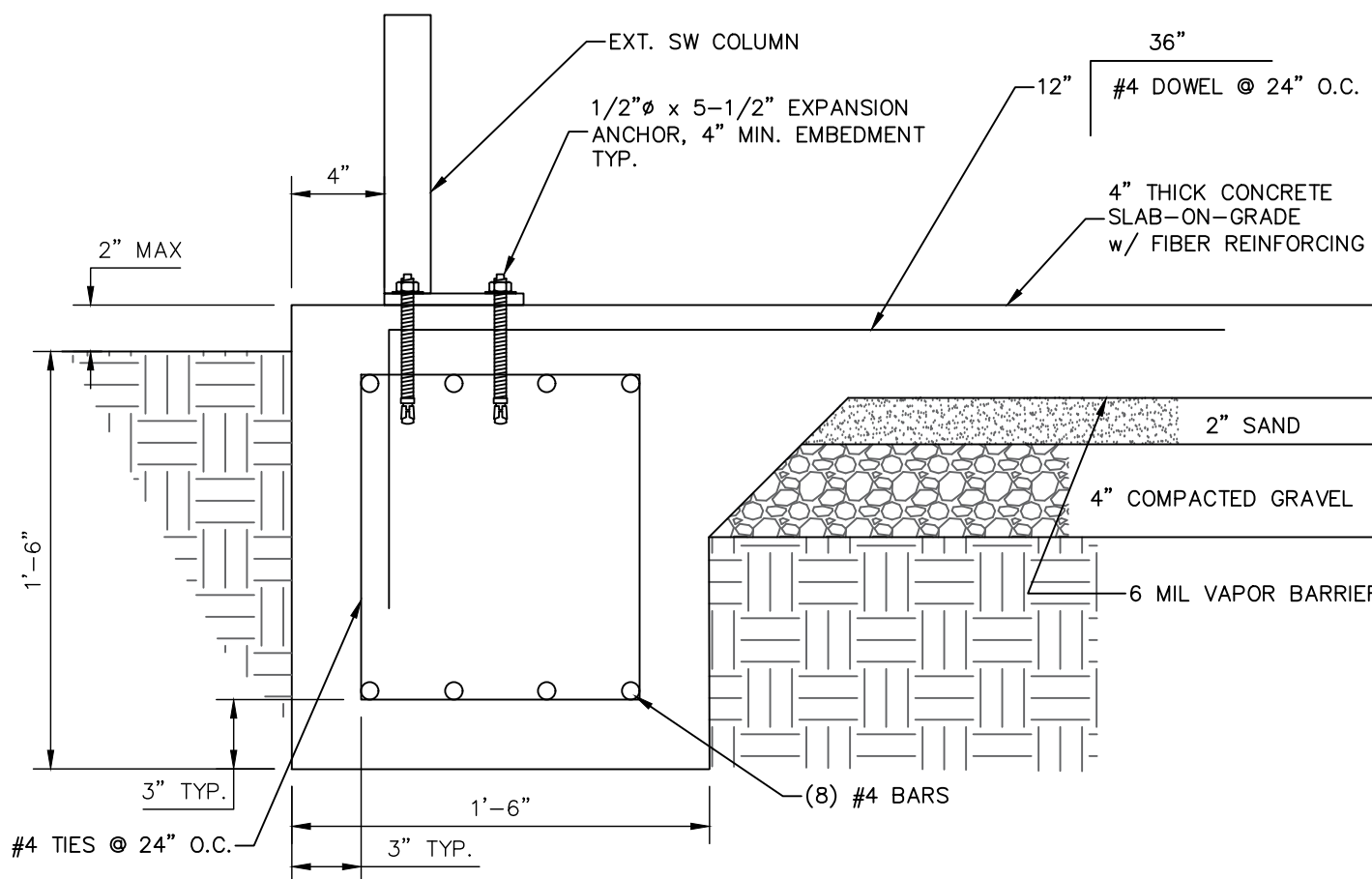
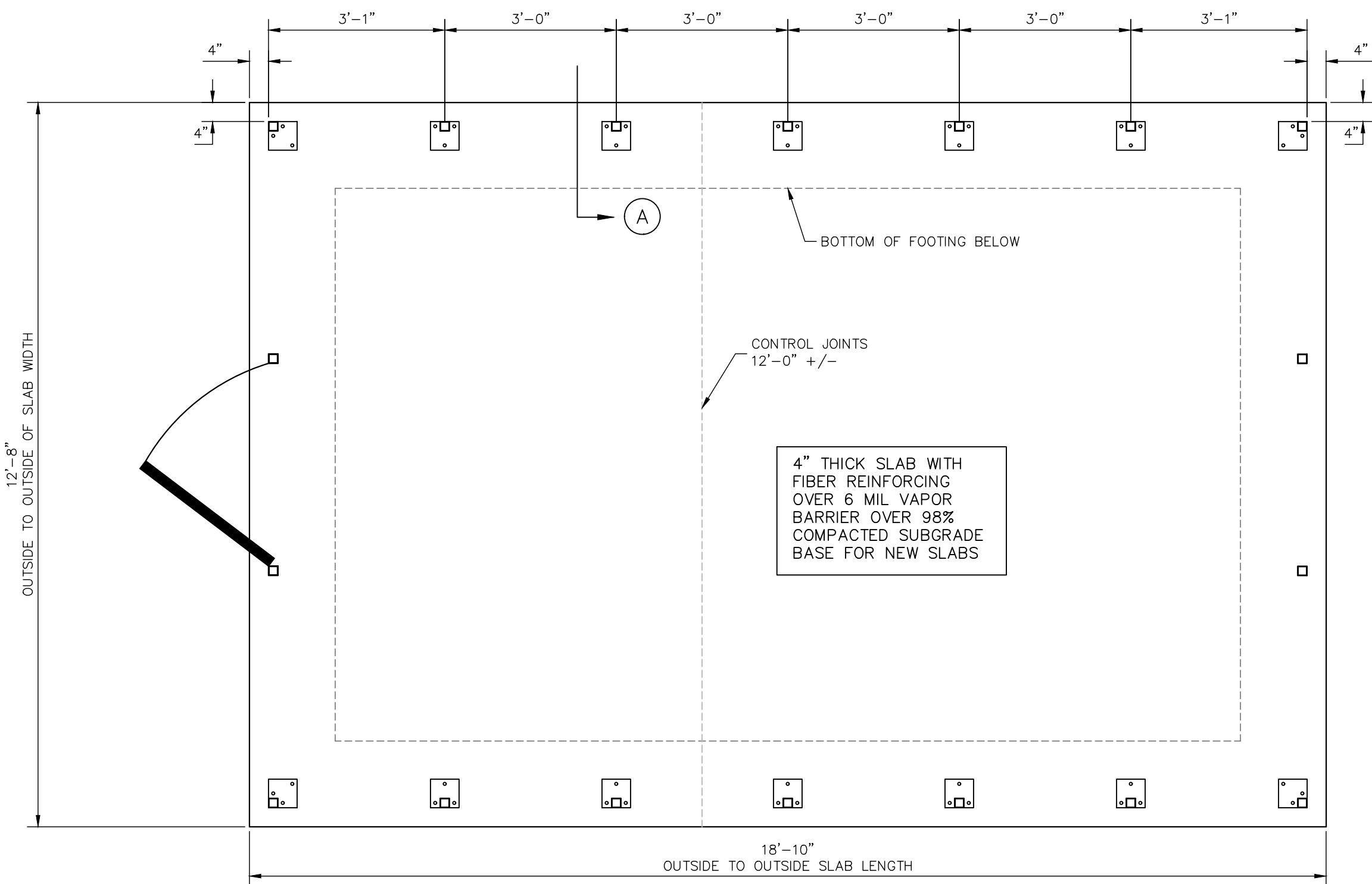
SHEET TITLE
FOUNDATION PLAN

DRAWN BY
PL

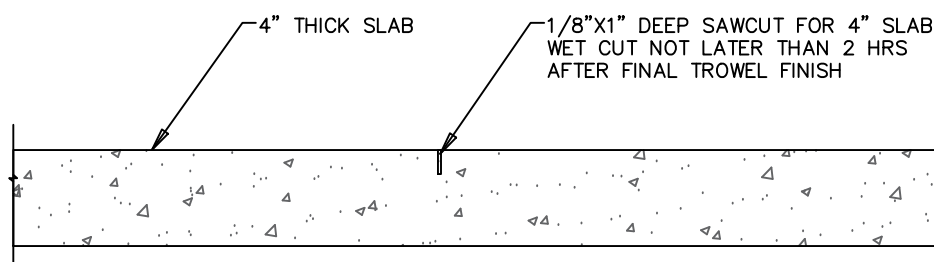
DATE
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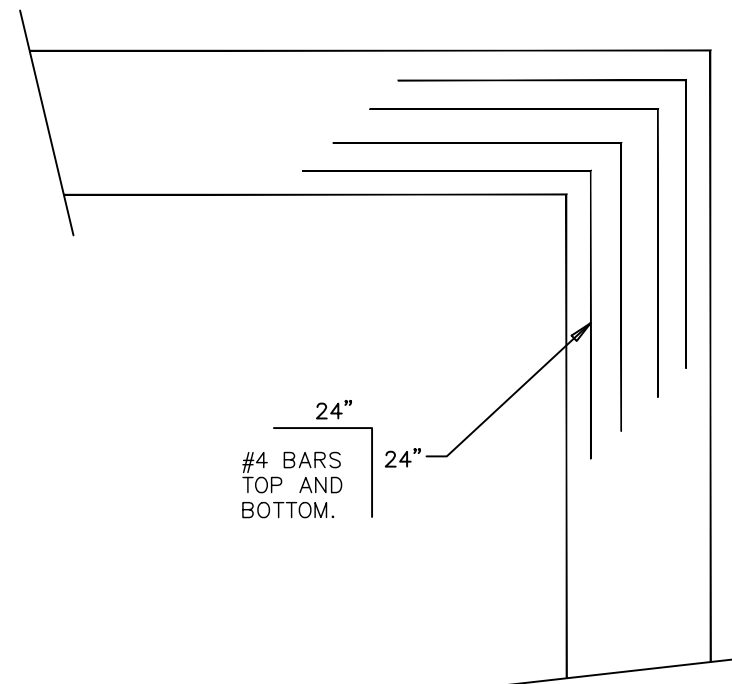
F1



A SECTION A
SCALE: NTS



B TYP. CONTROL JOINT DETAIL
SCALE: NTS



C TYP. CORNER DETAIL
SCALE: NTS

COLUMN PLATES:

LEFT SIDE CORNER PLATE

INTERMEDIATE PLATE

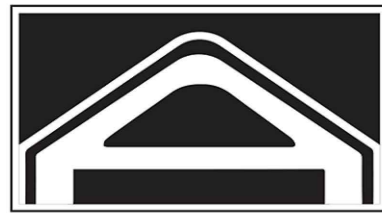
RIGHT SIDE CORNER PLATE

FOUNDATION NOTES:

- ATLAS IS NOT RESPONSIBLE FOR THE ADEQUACY OF THE FOUNDING SOILS. THE FOUNDATION DESIGN IS BASED UPON CLASS 5 SOIL PER I.B.C.-15 AND THE ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE A MINIMUM OF 1500 PSF. THE OWNER MAY WANT TO OBTAIN A SOILS INVESTIGATION BY A REGISTERED DESIGN PROFESSIONAL TO CONFIRM THE ASSUMPTIONS OF THE DESIGN AND TO DETERMINE THE ADEQUACY OF THE SOILS TO SUPPORT THE PROPOSED STRUCTURE.
- ATLAS SHALL BE NOTIFIED IMMEDIATELY IF ANY CONDITIONS ARE DIFFERENT THAN THESE ASSUMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE SOIL CONDITIONS BEFORE CONSTRUCTION, AND IF UNUSUAL CONDITIONS ARE ENCOUNTERED, TO NOTIFY ATLAS BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION.
- COMPACTED BACKFILL SHALL BE USED IN THE EXCAVATION AFTER THE CONCRETE IS SET.
- ALL FOOTINGS SHALL BE A MINIMUM OF 18 INCHES WIDE AND DEPTH PER PLANS AND SCHEDULE. MINIMUM REINFORCING STEEL SHALL BE 8 - #4 BARS HORIZONTAL.
- WHERE REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO PLACING CONCRETE, AFTER ALL EMBEDDED STEEL HARDWARE AND REINFORCING HAVE BEEN PLACED.
- CONCRETE FOOTINGS SHALL HAVE AN ULTIMATE STRENGTH OF 3000 PSI AT 28 DAYS. CONCRETE SHALL CONTAIN A MINIMUM OF: 5 SACKS CONCRETE PER CUBIC YARD, 3/4 AGGREGATE, 'HARD ROCK' MIX. CONCRETE USED IN FOUNDATIONS SHALL HAVE A MAXIMUM SLUMP OF 4".
- REINFORCING STEEL, WHEN SPECIFIED, SHALL BE ASTM A615 GRADE 60 EXCEPT #3 BARS AND DOWELS MAY BE GRADE 40.
- WELDED WIRE FABRIC (W.W.F.) WHEN SPECIFIED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A185 OR A497 WITH YIELD STRENGTH OF 60 KSI.
- CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM-C94.
- DRAIN AND PLUMBING DESIGN SHOULD BE COORDINATED BEFORE POURING CONCRETE.
- OWNER IS RESPONSIBLE FOR PROVIDING ADEQUATE COMPACTED SUBGRADE FIRM SOIL.

LEGAL NOTES:

- USING THESE PLANS, DRAWINGS AND SPECIFICATIONS TO CONSTRUCT THE STRUCTURES OR FOUNDATIONS CONSTITUTE AGREEMENT BY THE CLIENT TO THE FOLLOWING.
- INDEMNIFICATION - THE CLIENT SHALL INDEMNIFY AND HOLD HARMLESS ATLAS AND ANY OF ITS PERSONNEL & SUB CONTRACTORS FROM AND AGAINST ANY AND ALL CLAIMS. DAMAGES, LOSSES & EXPENSES (INCLUDING REASONABLE ATTORNEY'S FEES) ARISING OUT OF OR RESULTING FROM THE PERFORMANCE OF THE SERVICES, PROVIDED THAT ANY SUCH CLAIMS, DAMAGE, LOSS OR EXPENSE IS CAUSED IN WHOLE OR IN PART BY THE NEGLIGENT ACT OR OMISSION AND/OR STRICT LIABILITY OF THE CLIENT, ANYONE DIRECTLY OR INDIRECTLY EMPLOYED BY THE CLIENT OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE. THIS INDEMNIFICATION SHALL INCLUDE ANY CLAIM, DAMAGE OF LOSSES DUE TO THE PRESENCE OF HAZARDOUS MATERIALS.
- RISK ALLOCATION - IN RECOGNITION OF THE RELATIVE RISKS, REWARDS & BENEFITS OF THE PROJECT TO BOTH THE CLIENT & ATLAS, THE RISKS HAVE BEEN ALLOCATED SO THAT THE CLIENT AGREES THAT TO THE FULLEST EXTENT PERMITTED BY LAW ATLAS'S TOTAL LIABILITY TO THE CLIENT, FOR ANY & ALL INJURIES, CLAIMS, LOSSES, EXPENSES, DAMAGES OR CLAIM EXPENSES ARISING OUT OF THIS AGREEMENT, FROM ANY CAUSE OR CAUSES, SHALL NOT EXCEED THE TOTAL AMOUNT OF \$50,000.00, THE AMOUNT OF ATLAS'S FEE (WHICHEVER IS LESS) OR OTHER AMOUNT AGREED UPON WHEN ADDED UNDER SPECIAL CONDITIONS. SUCH CAUSES INCLUDE, BUT ARE NOT LIMITED TO, ATLAS'S NEGLIGENCE, ERRORS, OMISSIONS, STRICT LIABILITY, BREACH OF CONTRACT OR BREACH OF WARRANTY.
- OWNERSHIP DOCUMENTS - ALL DOCUMENTS PRODUCED BY ATLAS UNDER THIS AGREEMENT REMAIN THE PROPERTY OF ATLAS & MAY NOT BE USED BY THE CLIENT FOR ANY OTHER ENDEAVOR WITHOUT THE WRITTEN CONSENT OF ATLAS.
- DISPUTE RESOLUTION - ANY CLAIM OR DISPUTE BETWEEN THE CLIENT AND ATLAS SHALL BE SUBMITTED TO NON-BINDING MEDIATION SUBJECT TO THE PARTIES AGREEING TO A MEDIATOR(S). THIS AGREEMENT SHALL BE GOVERNED BY THE LAWS OF THE PRINCIPAL PLACE OF BUSINESS OF ATLAS.



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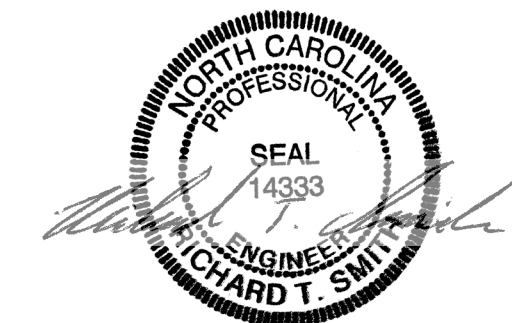
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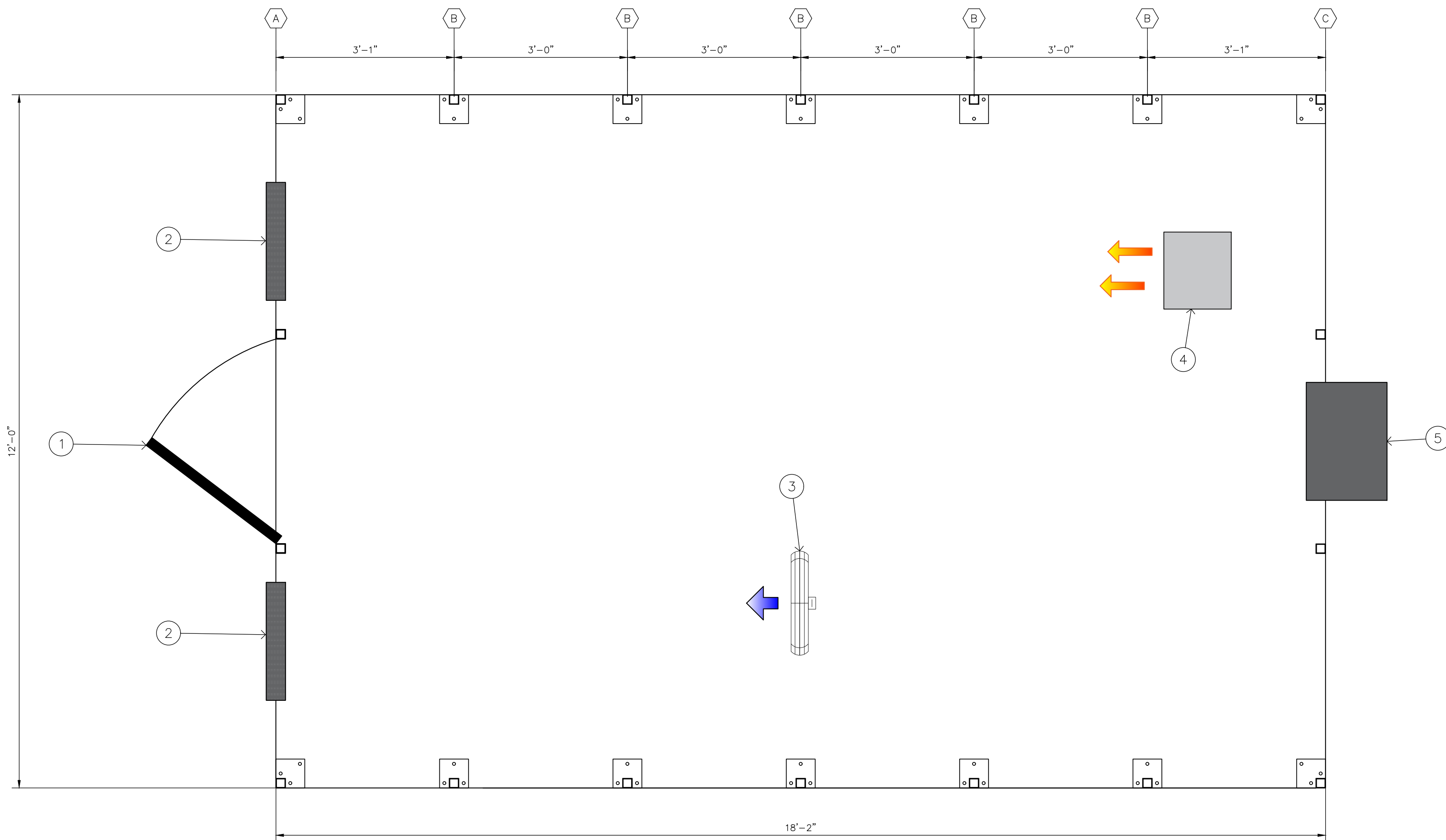
SHEET TITLE
**FLOOR PLAN &
EQUIPMENT LAYOUT**

DRAWN BY
PL

DATE
2/4/25

SHEET NUMBER

F2



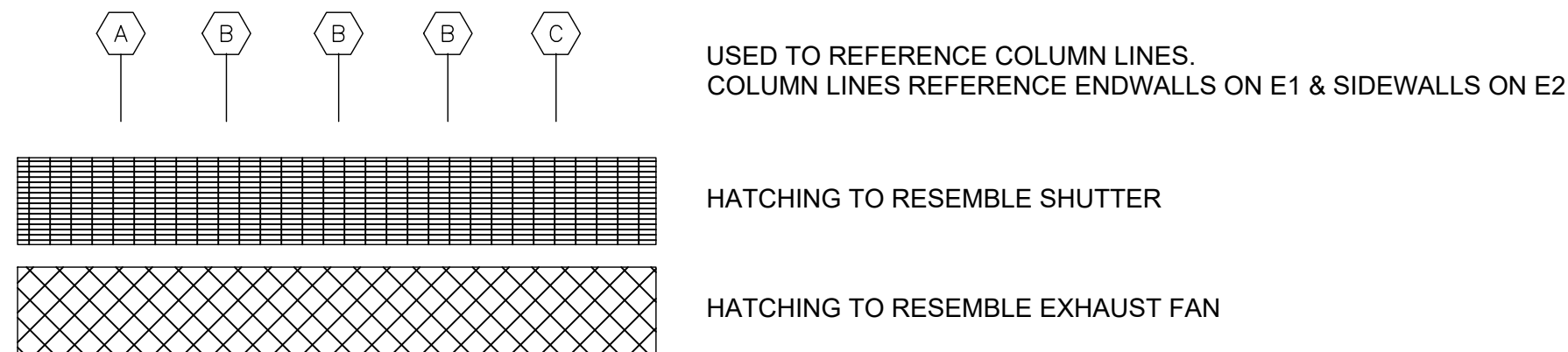
**THIS SHEET IS FOR STRUCTURAL MEASUREMENTS ONLY! USE SHEET F1 FOR POURING CONCRETE.
DO NOT USE MEASUREMENTS LISTED HERE TO POUR CONCRETE, IT WILL BE THE WRONG!**

KEY NOTES:

- 42" x 6'-6" A.D.A COMPLIANT SINGLE SWING DOOR
- 24" MOTORIZED SHUTTER
- 18" HORIZONTAL AIR FLOW FAN
- 60,000 BTU HEATER
- 18" BOX WALL FAN

#

LEGEND:



USED TO REFERENCE COLUMN LINES.
COLUMN LINES REFERENCE ENDWALLS ON E1 & SIDEWALLS ON E2

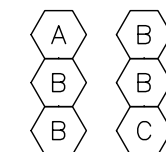
HATCHING TO RESEMBLE SHUTTER

HATCHING TO RESEMBLE EXHAUST FAN

GENERAL NOTES:

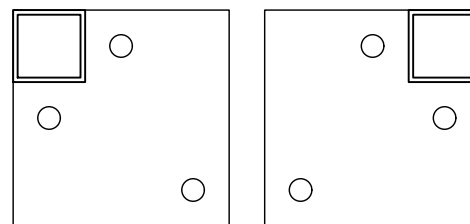
COLUMN SPACING IS:

OUTSIDE TO CENTER 6'-1"
CENTER TO CENTER 6'-0"
CENTER TO OUTSIDE 6'-1"

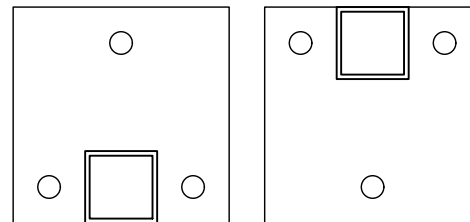


COLUMN PLATES:

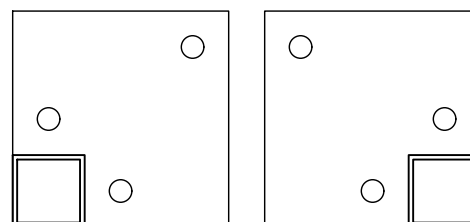
LEFT SIDE CORNER PLATE

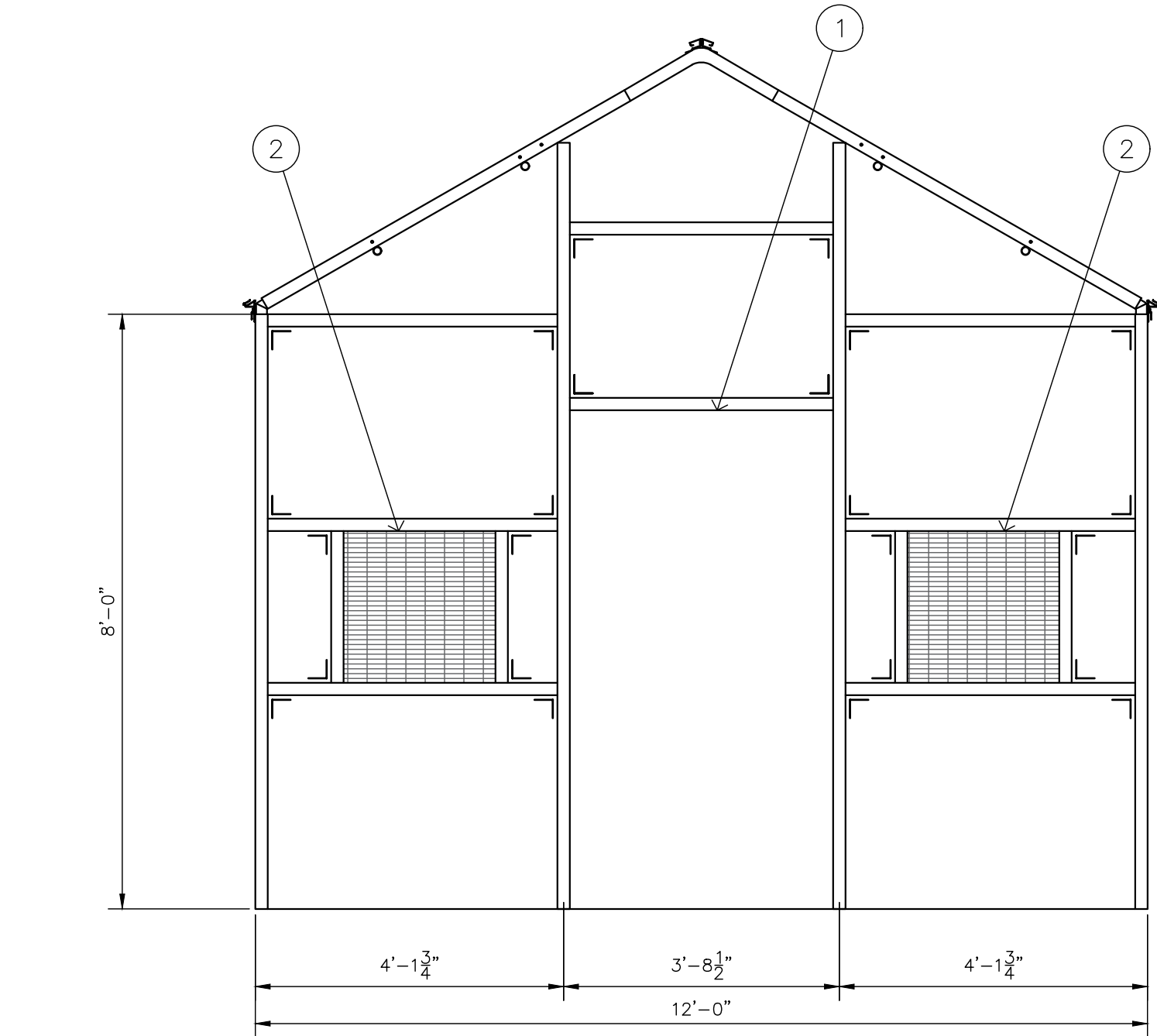


INTERMEDIATE PLATE

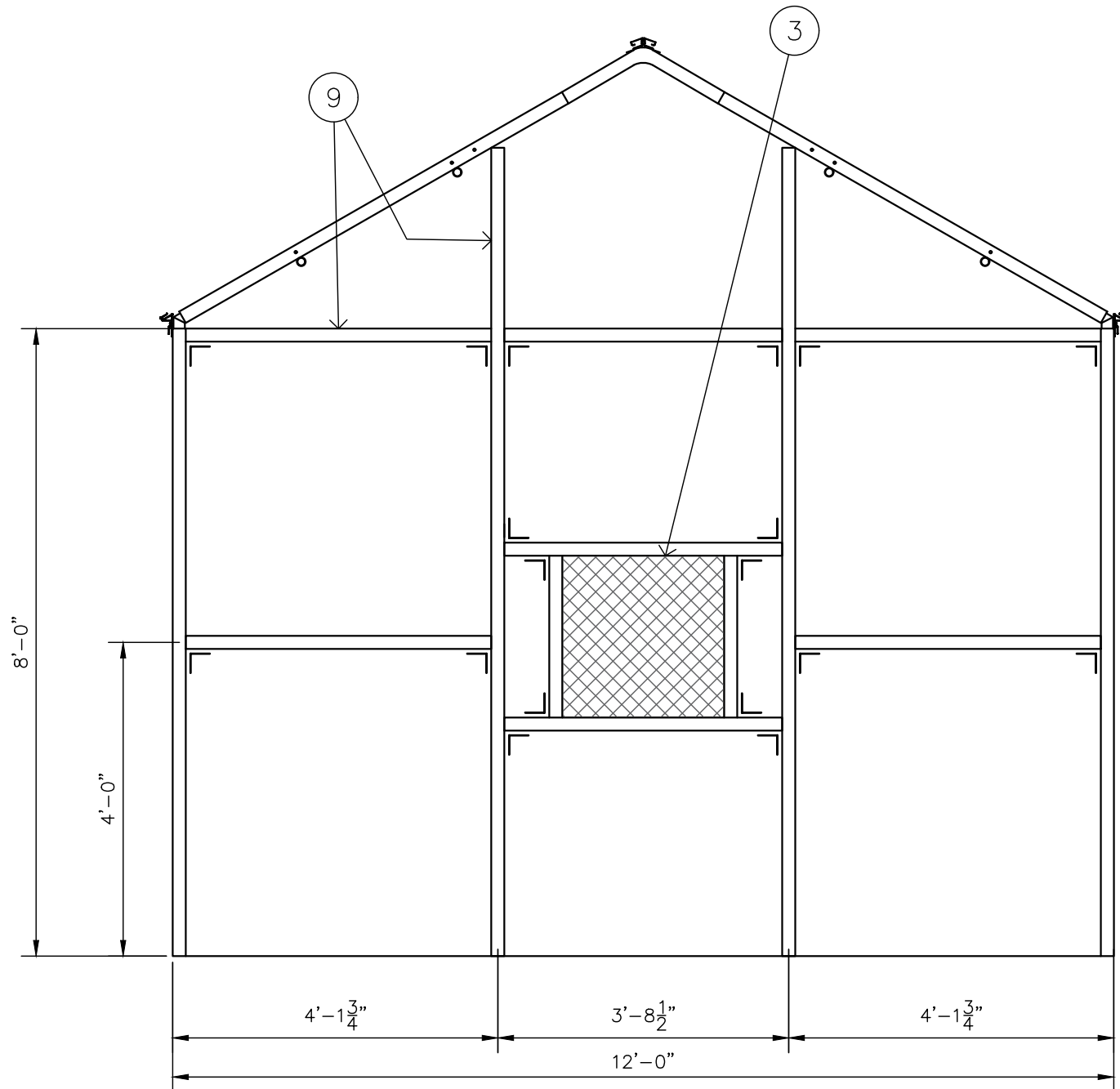


RIGHT SIDE CORNER PLATE

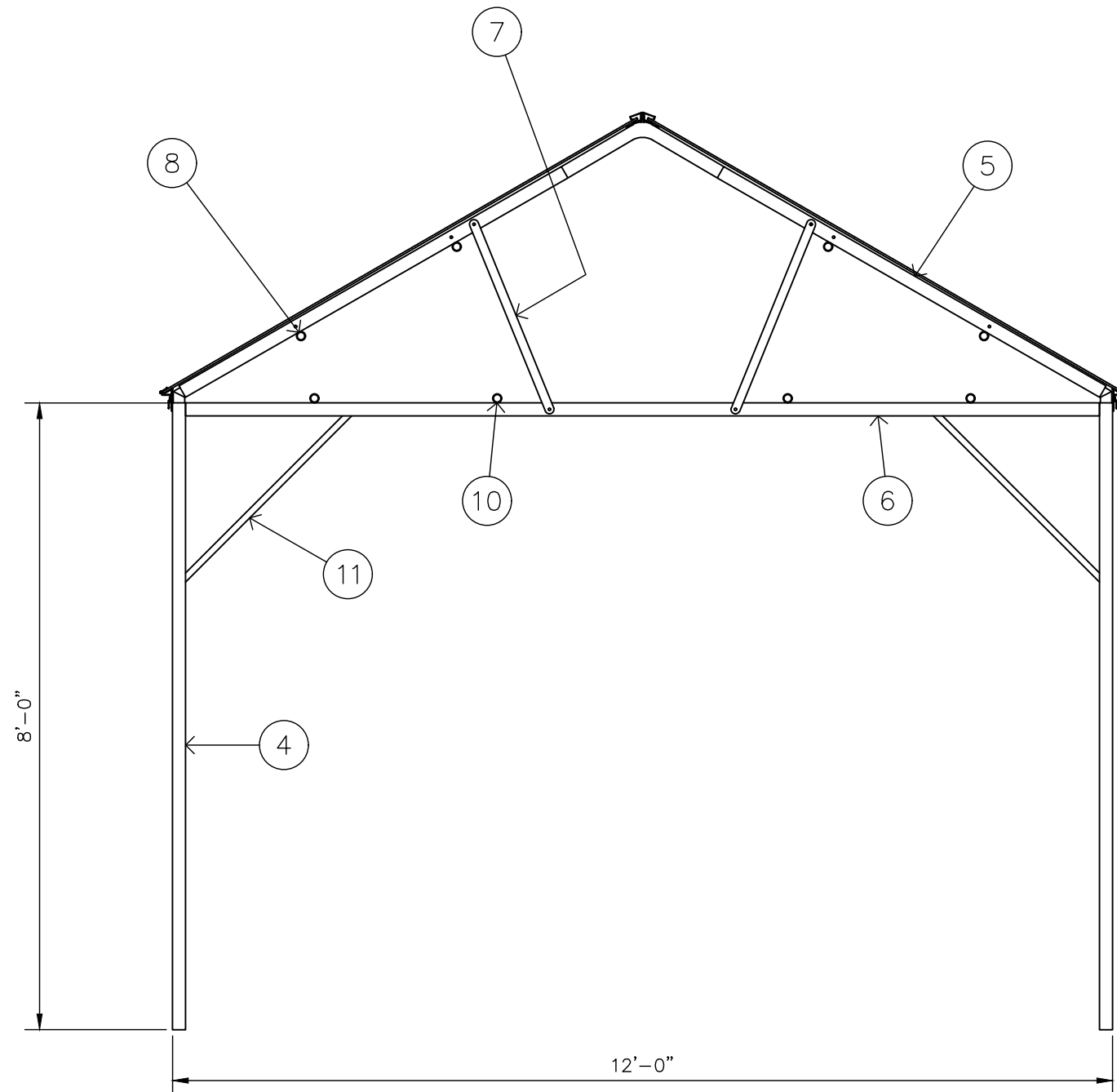




A FRONT ELEVATION
SCALE: 1/2":1'-0"



C REAR ELEVATION
SCALE: 1/2":1'-0"

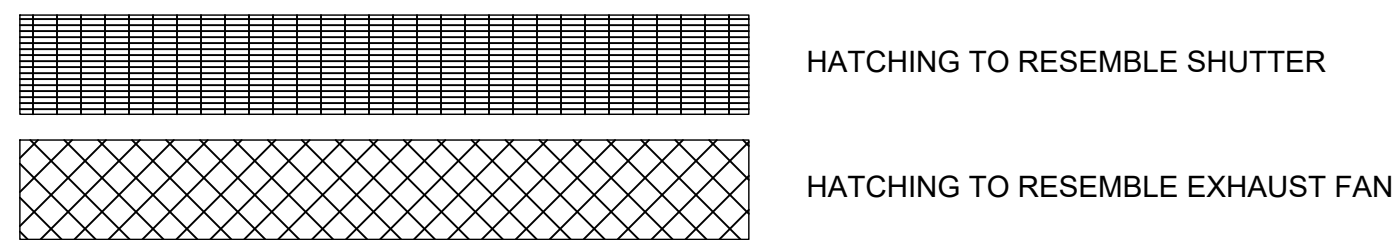


B INTERMEDIATE ELEVATION
SCALE: 1/2":1'-0"

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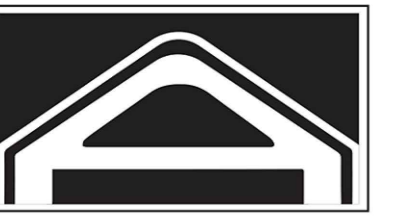
- | | |
|--|--|
| 1. 42" x 6'-6" A.D.A COMPLIANT SINGLE SWING DOOR | ROUGH OPENING: 42 $\frac{1}{2}$ "W x 80"H |
| 2. 24" MOTORIZED SHUTTER | ROUGH OPENING: 24 $\frac{3}{4}$ "W x 24 $\frac{3}{4}$ "H |
| 3. 18" BOX WALL FAN | ROUGH OPENING: 28 $\frac{3}{4}$ "W x 28 $\frac{3}{4}$ "H |
| 4. Columns: 2" x 2" x 14 ga | |
| 5. Bows: 2" x 2" x 14 ga | |
| 6. Cross Truss: 2" x 2" x 14 ga | |
| 7. Truss Uprights: 1.315" Pipe x 17 ga | |
| 8. Roof Purlins: 1.315" Pipe x 17 ga (4 runs total) | |
| 9. End Wall: 2" x 2" x 14 ga (2 columns) | |
| 10. Hanging Basket Rails: 1.315" Pipe x 17 ga (4 runs) | |
| 11. Gussets: 2" x 2" x 14 ga | |

LEGEND:



GENERAL NOTES:

ENDWALLS REFERENCE COLUMN LINES ON F1 & E2



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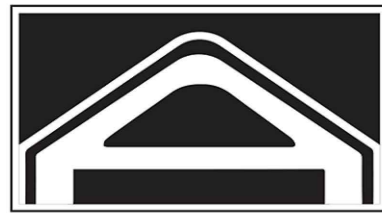
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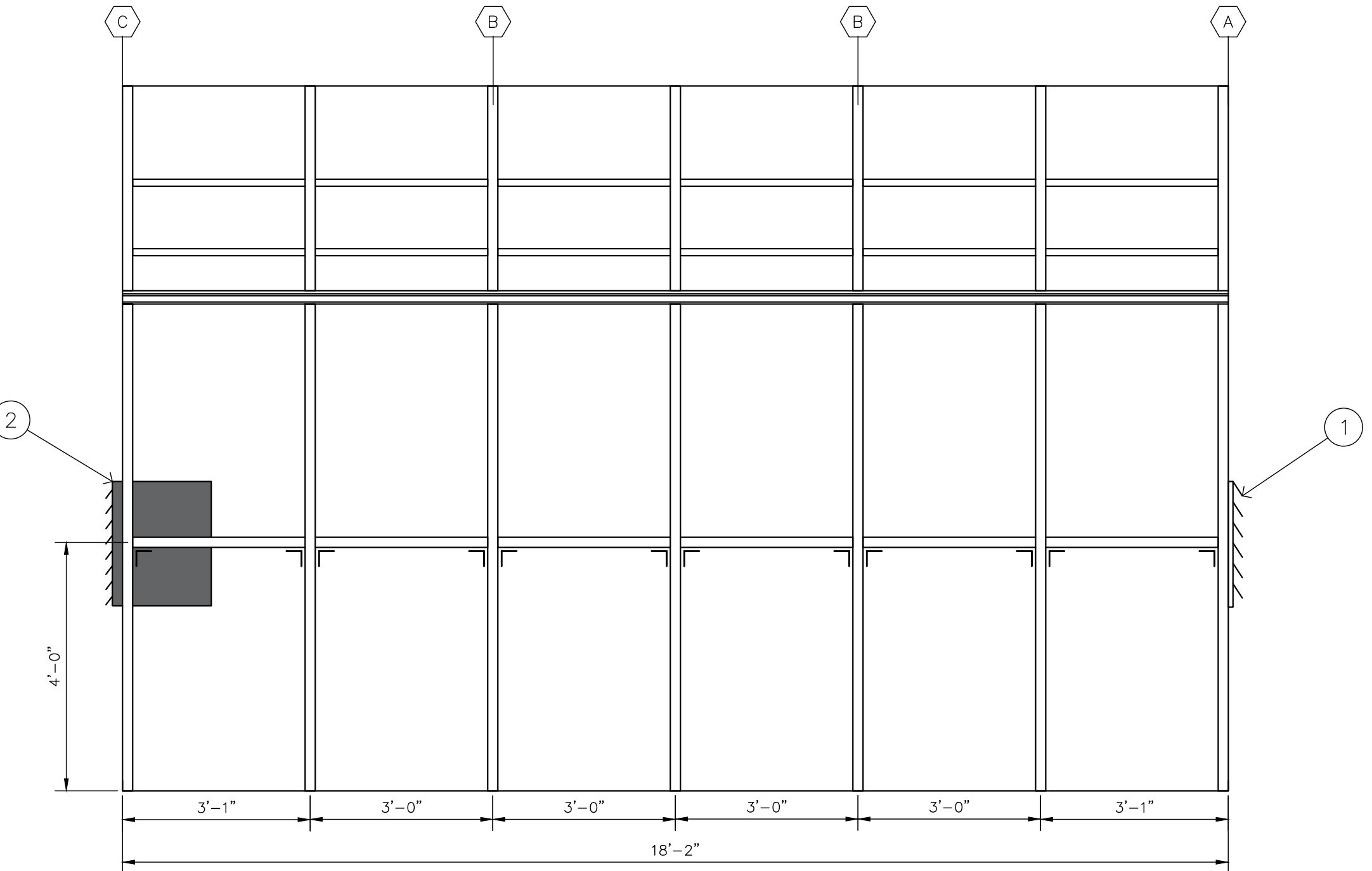
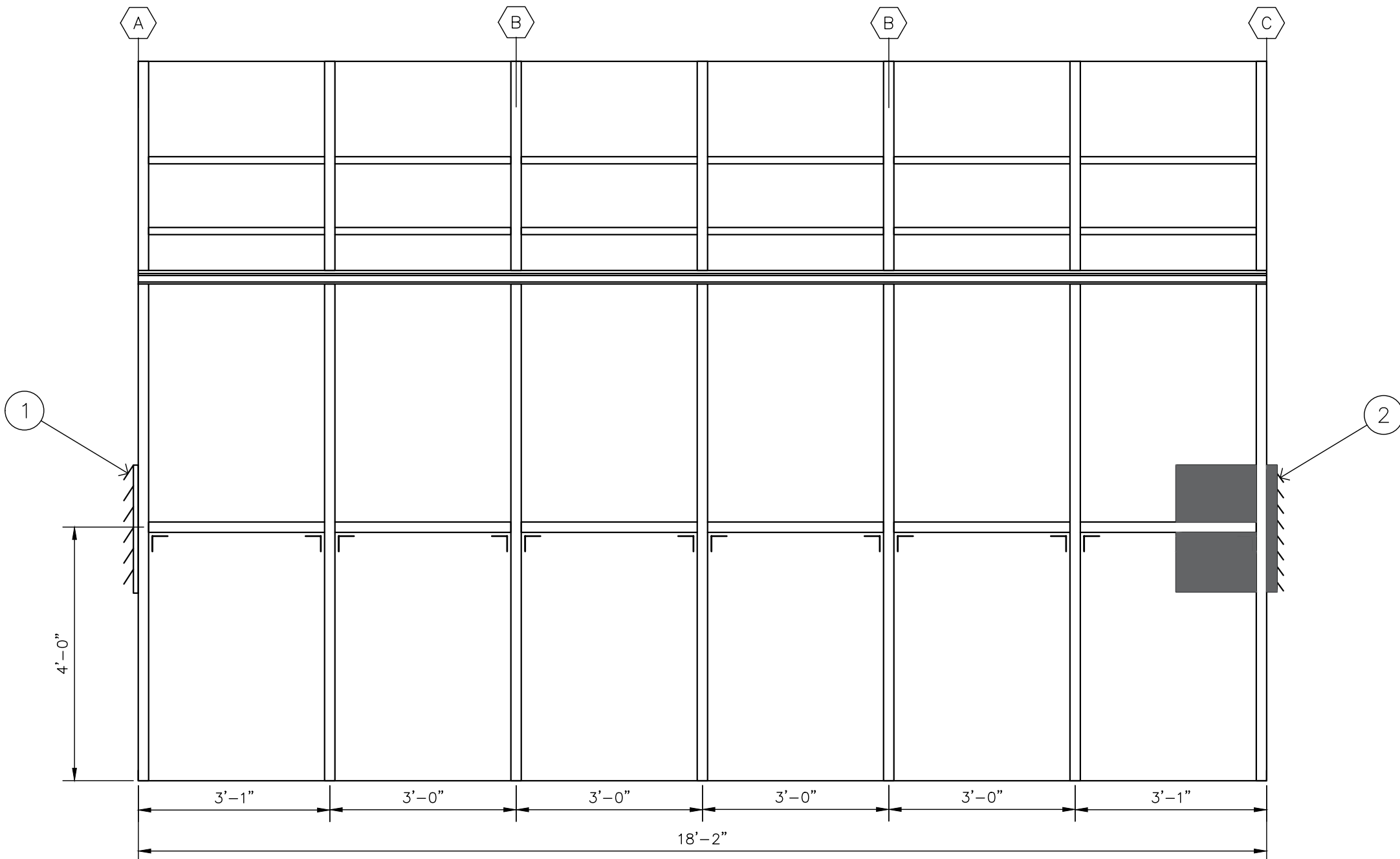
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SIDEWALL ELEVATION

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E2



KEY NOTES:

LEGEND:

GENERAL NOTES:

1. 24" MOTORIZED SHUTTER
2. 18" BOX WALL FAN
3. Sidewall Girts: 2" x 2" x 14 ga (2 runs total) @ 4'

A B B B C
COLUMN LINES.

SIDEWALLS REFERENCE COLUMN LINES ON F1 & ENDWALLS ON E1