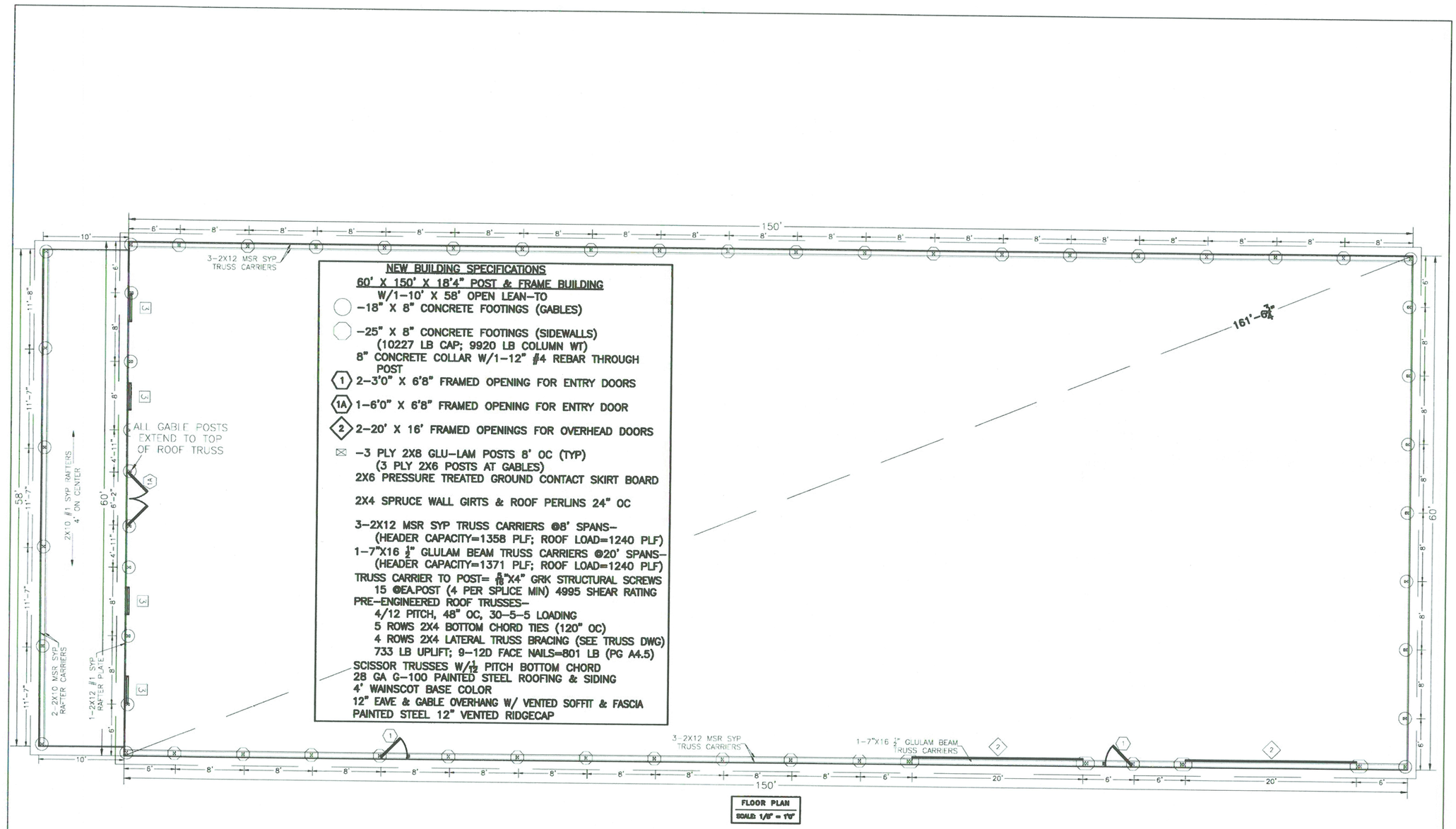


NEW BUILDING SPECIFICATIONS

60' X 150' X 18'4" POST & FRAME BUILDING
W/1-10' X 58' OPEN LEAN-TO
-18" X 8" CONCRETE FOOTINGS (GABLES)
-25" X 8" CONCRETE FOOTINGS (SIDEWALLS)
(10227 LB CAP; 9920 LB COLUMN WT)
8" CONCRETE COLLAR W/1-12" #4 REBAR THROUGH POST
(1) 2-3'0" X 6'8" FRAMED OPENING FOR ENTRY DOORS
(1A) 1-6'0" X 6'8" FRAMED OPENING FOR ENTRY DOOR
(2) 2-20' X 16' FRAMED OPENINGS FOR OVERHEAD DOORS
⊠ -3 PLY 2X8 GLU-LAM POSTS 8' OC (TYP)
(3 PLY 2X6 POSTS AT GABLES)
2X6 PRESSURE TREATED GROUND CONTACT SKIRT BOARD
2X4 SPRUCE WALL GIRTS & ROOF PERLINS 24" OC
3-2X12 MSR SYP TRUSS CARRIERS @8' SPANS-
(HEADER CAPACITY=1358 PLF; ROOF LOAD=1240 PLF)
1-7"X16 1/2" GLULAM BEAM TRUSS CARRIERS @20' SPANS-
(HEADER CAPACITY=1371 PLF; ROOF LOAD=1240 PLF)
TRUSS CARRIER TO POST= 5/16"X4" GRK STRUCTURAL SCREWS
15 @EA.POST (4 PER SPLICE MIN) 4995 SHEAR RATING
PRE-ENGINEERED ROOF TRUSSES-
4/12 PITCH, 48" OC, 30-5-5 LOADING
5 ROWS 2X4 BOTTOM CHORD TIES (120" OC)
4 ROWS 2X4 LATERAL TRUSS BRACING (SEE TRUSS DWG)
733 LB UPLIFT; 9-12D FACE NAILS=801 LB (PG A4.5)
SCISSOR TRUSSES W/1/12 PITCH BOTTOM CHORD
28 GA G-100 PAINTED STEEL ROOFING & SIDING
4' WAINSCOT BASE COLOR
12" EAVE & GABLE OVERHANG W/ VENTED SOFFIT & FASCIA
PAINTED STEEL 12" VENTED RIDGECAP

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

FLOOR PLAN
A.1

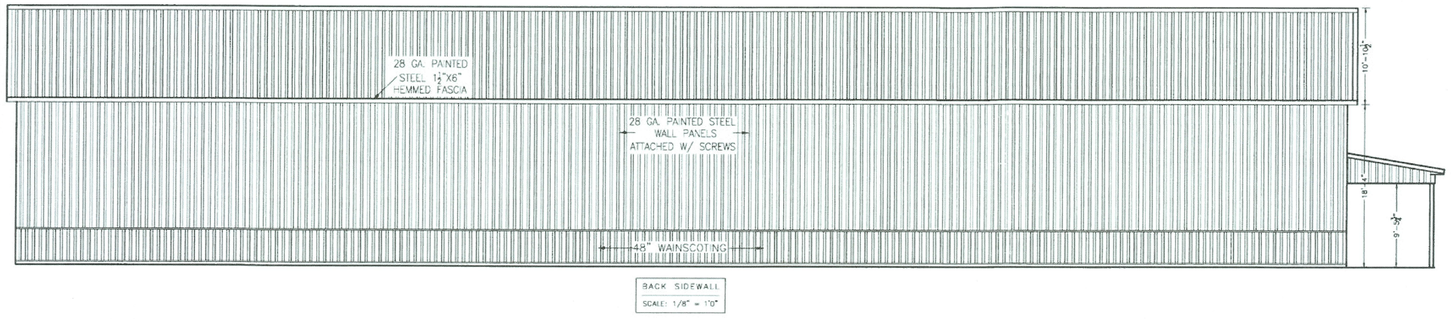
DRAWN BY: ALS
REVIEW:
REVISIONS:
1" = 6'
DATE: 12/8/21
SITE: PIAZZA

OWNER

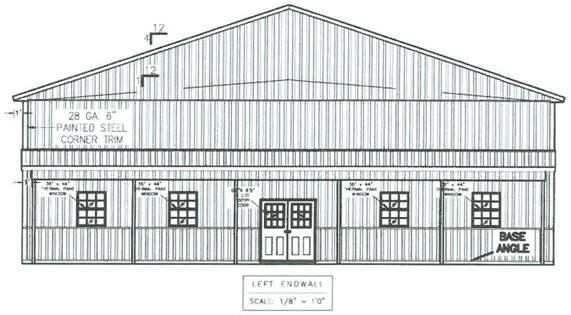
SAL PIAZZA
1 ERIC COURT
LAWRENCEVILLE NJ

BUILDER

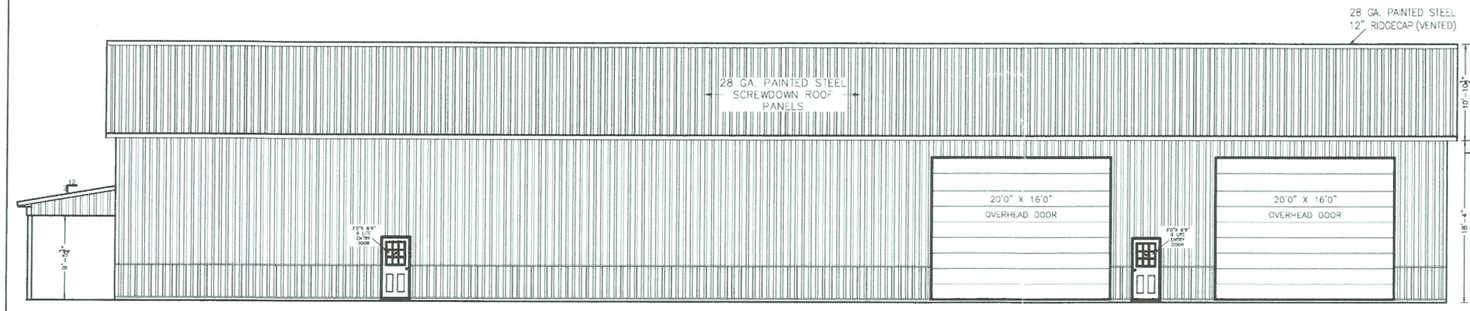
POLE BUILDINGS
SHIRK LLC
807 READING ROAD EAST EARL, PA 17519
717-445-6888 FAX 717-445-3001



BACK SIDEWALL
SCALE: 1/8" = 1'0"



LEFT ENDWALL
SCALE: 1/8" = 1'0"



FRONT SIDEWALL
SCALE: 1/8" = 1'0"

RIGHT ENDWALL
SCALE: 1/8" = 1'0"

ELEVATIONS

A.2

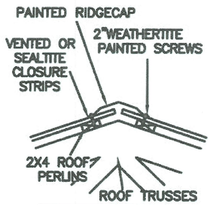
DRAWN BY: ALS
REVIEW:
REVISIONS:
1" = 8'
DATE: 12/8/21
SITE: PIAZZA

OWNER

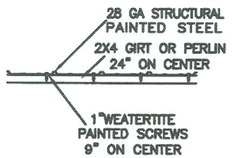
SAL PIAZZA
1 ERIC COURT
LAWRENCEVILLE NJ

BUILDER

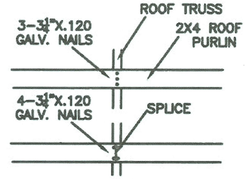
POLE BUILDINGS
SHIRK LLC
807 READING ROAD EAST EARL, PA 17519
717-445-6888 FAX 717-445-3001



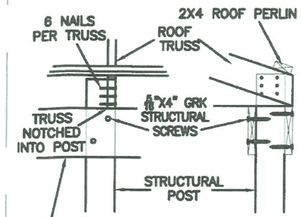
12" RIDGE CAP DETAIL
SCALE: 1/2" = 1'0"



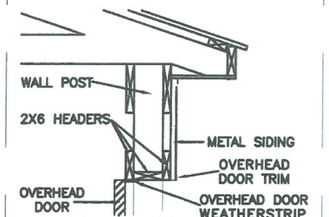
METAL SIDING & ROOFING FASTENERS
SCALE: 1/2" = 1'0"



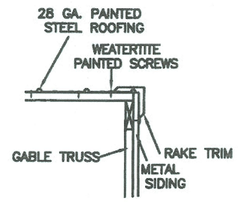
ROOF PURLIN FASTENING DETAIL
SCALE: 1/2" = 1'0"



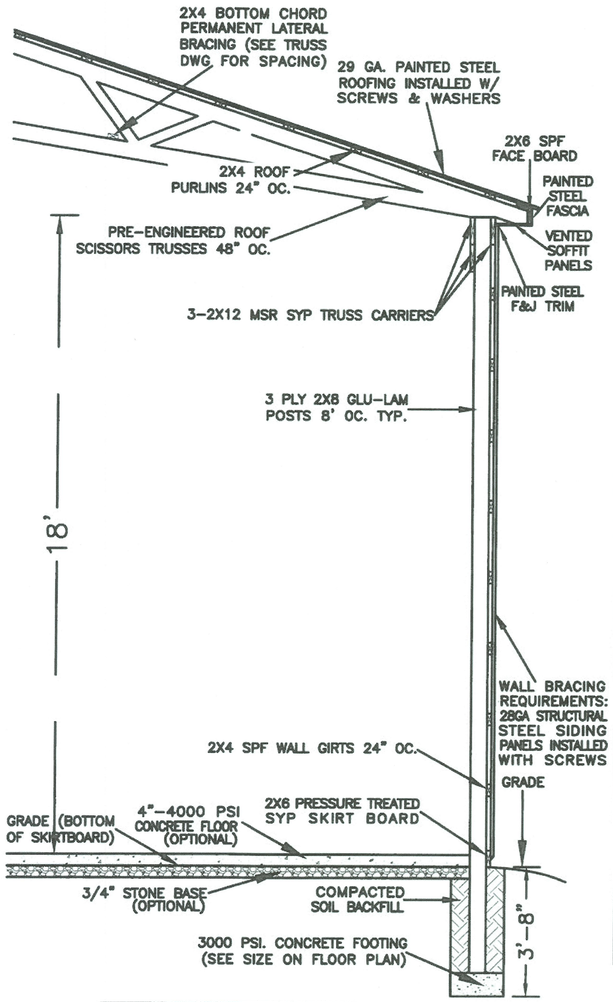
GRK STRUCTURAL SCREW TO POST FASTENER DETAIL
SCALE: 1/2" = 1'0"



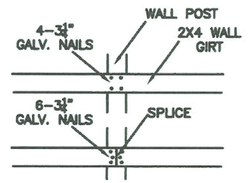
OVERHEAD DOOR HEADER DETAIL
SCALE: 1/2" = 1'0"



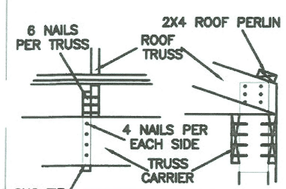
RAKE TRIM DETAIL
SCALE: 1/2" = 1'0"



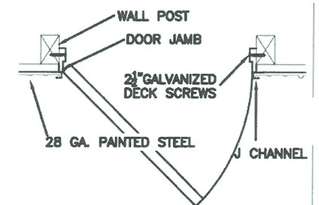
TYPICAL FRAME SECTION (ENDWALL VIEW)
SCALE: 1/4" = 1'0"



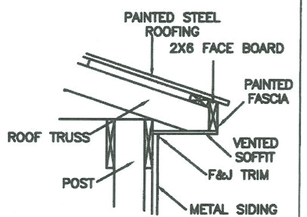
SIDEWALL GIRT FASTENING DETAIL
SCALE: 1/2" = 1'0"



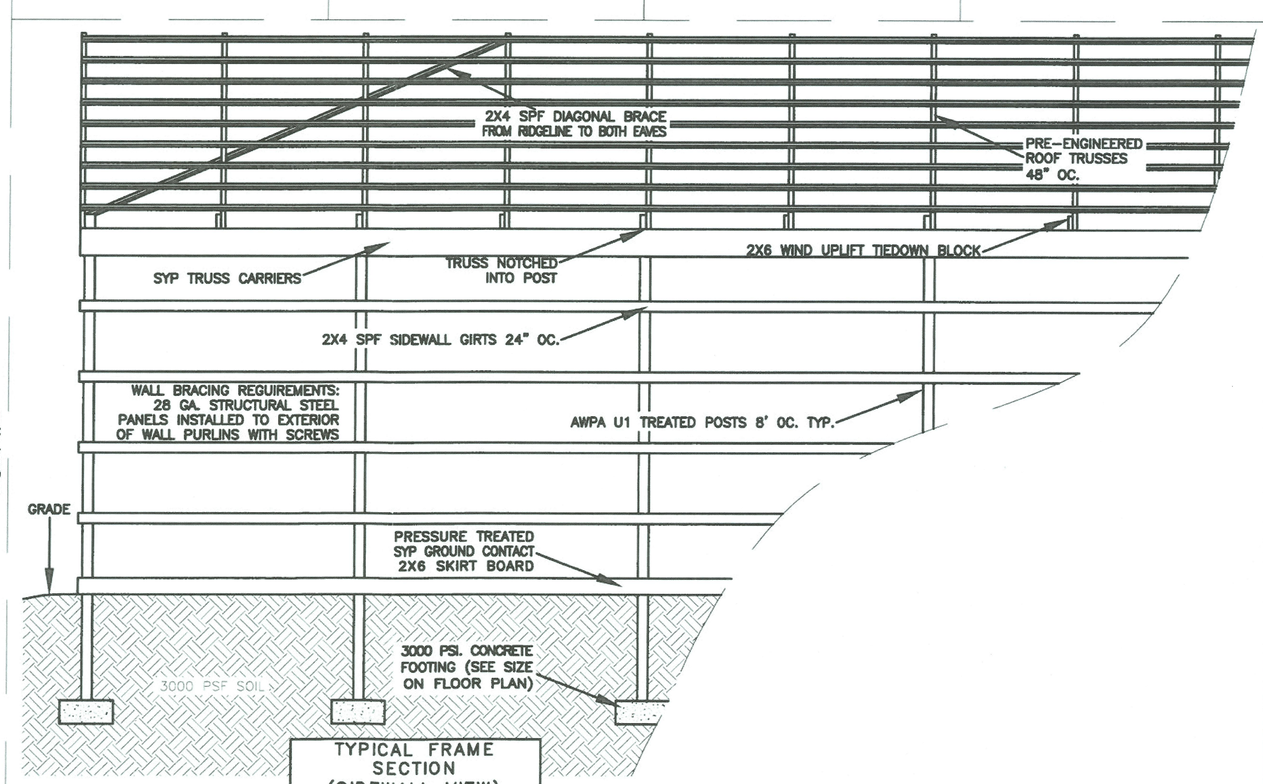
TRUSS TO TIE BLOCK FASTENER DETAIL
SCALE: 1/2" = 1'0"



ENTRY DOOR JAMB DETAIL
SCALE: 1/2" = 1'0"



12"EAVE OVERHANG DETAIL
SCALE: 1/2" = 1'0"



TYPICAL FRAME SECTION (SIDEWALL VIEW)
SCALE: 1/4" = 1'0"

BUILDER
SHIRK POLE BUILDINGS LLC
807 READING ROAD EAST EARL, PA 17519
717-445-6888 FAX 717-445-3001

OWNER

SAL PIAZZA
1 ERIC COURT
LAWRENCEVILLE NJ

DRAWN BY:	ALS
REVIEW:	
REVISIONS:	
DATE:	12/8/21
SITE:	PIAZZA
SECTIONS	

A.3

BUILDING DESIGN NOTES AND DETAILS

A4.1 GRADING & EXCAVATION
FINISHED GRADE SHALL BE BELOW FLOOR LEVEL WITH ADEQUATE FALL TO CARRY SURFACE WATER AWAY FROM BUILDING. FOOTINGS SHALL BE CIRCULAR (UNLESS NOTED OTHERWISE) AUGERED TO THE DEPTH AND DIAMETER SPECIFIED, WITH ALL LOOSE FILL REMOVED BEFORE CONCRETE FOOTING MATERIAL IS PLACED.

A4.2 FOOTINGS
STANDARD DEPTH FOR FOOTING EXCAVATION IS 44" FROM FINSIH FLOOR HEIGHT FOOTINGS SHALL BE A MINIMUM OF 36" DEPTH FOR FROST PROTECTION OR; LOCAL BUILDING CODE DEPTH REQUIREMENTS FOR FROST PROTECTION WILL BE FOLLOWED. DRY MIX CONCRETE HYDRATED IN-SITU WILL BE USED UNLESS OTHERWISE SPECIFIED.

A4.3 FRAMING
LUMBER FOR SIDEWALL GIRTS AND PERLINS SHALL BE #2 SPRUCE OR COMPARABLE. LUMBER FOR SKIRTBOARD, POSTS AND BEAMS SHALL BE #2 OR BETTER SOUTHERN YELLOW PINE. TIMBERVALUES FOR 3 PLY 2X6 GLU-LAM :FB=2150, FC=2050. LUMBER FOR TRUSS CARRIERS SHALL BE #1 OR BETTER SOUTHERN YELLOW PINE. ALL GROUND CONTACT LUMBER SHALL BE TREATED TO AWPA U1-09 (COMMODITY SPECIFICATION A, USE CATEGORY 4B AND SECTION 5.2) AND ASAE(ASABE)EP559, .60 CCA MINIMUM AND SHALL BEAR AN ACCREDITED LABEL USING #1 OR BETTER SYP.

A4.4 ROOF TRUSSES
ROOF TRUSSES SHALL BE PRE-ENGINEERED. GROUND SNOW LOAD, DRIFT LOAD, COLLATERAL LOAD, AND WIND LOAD ARE TO BE IN ACCORDANCE WITH BUILDING CODE. TRUSS ERECTION AND BRACING SHALL BE PROVIDED ACCORDING TO MANUFACTURERS SPECIFICATIONS. BOTTOM CHORD OF TRUSS SHALL HAVE PERMANENT LATERAL BRACING OF 120" OC. OR AS REQUIRED PER ROOF TRUSS DESIGN. THE DESIGN PROFESSIONAL OF RECORD HAS REVIEWED THE PRE-ENGINEERED ROOF TRUSS DRAWINGS AS PER R502.11.1 & IBC 107.3.4.1 AND THEY COMPLY WITH THE STRUCTURAL DESIGN REQUIREMENTS.

A4.5 ROOF TRUSS UPLIFT AND LATERAL CONNECTIONS
PRIMARY ROOF TRUSSES SHALL BE CONNECTED TO THE SIDE OF THE STRUCTURAL POSTS AND INTERMEDIATE ROOF TRUSSES SHALL BE CONNECTED TO THE STRUCTURAL HEADER WITH UPLIFT BLOCKS WITH A SUFFICIENT NUMBER OF FACE NAILS TO OFFSET THE WIND UPLIFT FACTOR AND LATERAL LOADS NOTED ON THE ROOF TRUSS DRAWING IN ACCORDANCE WITH IBC SECTION 2304.9.1, 2308.10.1, AND 2308.10.6

A4.6 FASTENERS AND FRAMING CONNECTIONS STRUCTURE COMPLIES WITH ASAE(ASABE) EP484 DIAPHRAM DESIGNS& ACTIONS FOR METALCLAD BUILDINGS, IBC WIND BRACING REQUIREMENTS, IBC CONSTRAINED/ UNCONSTRAINED POST REQUIREMENTS& POST TO FOOTING CONNECTION. ALL FRAMING CONNECTIONS SHALL BE OF A SIZE AND DESIGN TO MEET DESIGN LOADS SPECIFIED. NAILS USED IN .60 ACQ/CCA TREATED WOOD SHALL BE 12D HOT DIPPED GALVANIZED; ASTM A 153 PLATED 1.2 MIL SCREWS, AND A 65 CLASS G 185 HARDWARE. THE MINIMUM AMOUNT OF 12D NAILS IN 2X4 ROOF PERLINS IS 2. THE MINIMUM AMOUNT OF 12D NAILS IN 2X4 WALL GIRTS IS 3. THE MINIMUM # OF 12D NAILS IN $1\frac{1}{2}$" STRUCTURAL TIMBER IS 1 PER $\frac{1}{2}$" BOARD WIDTH. TRUSS CARRIER CONNECTION TO POST: $\frac{5}{16}$"x4" GRK RSS STRUCTURAL SCREWS. SCREW VALUES; LATERAL DESIGN VALUE=333 LB, TENSILE STRENGTH=139,000 PSI, PULLOUT=2644 LBS, HEAD PULL THROUGH=825 LBS, MIN. BENDING ANGLE=35°

A4.7 METAL SIDING AND ROOFING METAL SIDING AND ROOFING SHALL BE INSTALLED WITH #9 WOODGRIP, $\frac{1}{4}$" HEX HEAD, METAL AND RUBBER WASHERED GALVANIZED COLOR MATCHING SCREWS. FASTENERS SHALL COMPLY WITH THE ROOFING & SIDING MFG'S REQUIREMENTS. METAL SIDING AND ROOFING SHALL BE WARRANTED #1 GRADE 80,000 PSI MIN. TENSILE STRENGTH CORRUGATED 28 GAUGE PAINTED ABM STEEL PANELS GALVANIZED TO A MINIMUM OF G-100.
METAL SIDING AND ROOFING SHALL BE TRIMMED WITH CORRECT FLASHINGS AT EXPOSED EDGES, ROOF ENDS, CORNERS, DOORS, WINDOWS AND RIDGES, EXCEPT; BOTTOM EDGE OF STANDARD ROOFING MATERIALS.

A4.8 CONCRETE FLOOR (OPTIONAL)
FIBER REINFORCED 4000 PSI CONCRETE SLAB ON GRADE OVER COMPACTED BASE. SLAB WILL BE POURED AGAINST SKIRTBOARD WITH NO TURN DOWN.

A4.9 STRUCTURAL DESIGN PARAMETERS
BUILDING USE= STORAGE
USE GROUP=U
RISK CATEGORY I
EXPOSURE CATEGORY= C
HEIGHT & AREA LIMITATIONS=5B UNPROTECTED
OCCUPANCY LOAD=AS PER DESIGN
TOTAL NUMBER OF FLOORS= 1
TOTAL FLOOR AREA (SQ FT)=9000
BUILDING VOLUME (CU FT)=200,300
STRUCTURE IS DESIGNED FOR ASCE 7-16 ULTIMATE WIND SPEED, VULT=115 MPH (3 SECOND GUST) AND NOMINAL DESIGN WIND SPEED VASD=91 MPH.
SOIL BEARING CALCULATIONS ARE BASED ON SOIL BASE CONDITION 3000 PSF @48" BELOW GRADE UNLESS NOTED OTHERWISE.
30 PSF(LIVE) MIN.SNOW; 5 PSF TOP CHORD & 5 PSF BOTTOM CHORD LOADS.

A4.10 APPLICABLE BUILDING CODES
THESE PLANS ARE DESIGNED IN ACCORDANCE WITH THE FOLLOWING BUILDING CODES:
2018 IBC CODE NJ EDITION (N.J.A.C. 5:23-3.14) AND ASCE 7-16

A4.11 DESIGN REFERENCES:
NFBA GUIDLINES FOR POST & FRAME CONSTRUCTION
AMERICAN WOOD COUNCIL 2018 NDS & WFCM 2018 FOR WOOD CONSTRUCTION
SOUTHERN PINE COUNCIL (JOISTS & RAFTERS/ HEADERS & BEAMS)
AMERICAN NATIONAL STANDARDS (ANSI 117-2010)
SOUTHERN BUILDING CODE CONGRESS (SSTD10)
ASCE MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
GEORGIA PACIFIC ENGINEERED LUMBER (EDITION 10)

A4.12 WARRANTY NOTES
ANY DESIGN MODIFICATION OR ANY STRUCTURAL MODIFICATION BEFORE, DURING, OR AFTER CONSTRUCTION TO BUILDING BY ANY PERSON(S) OR COMPANY OTHER THAN WORK PERFORMED OR APPROVED BY SHIRK POLE BUILDINGS LLC WILL VOID ANY AND ALL WARRANTIES PROVIDED BY MANUFACTURERS AND/OR SHIRK POLE BUILDINGS LLC.
SUCH DESIGN MODIFICATIONS AND/OR STRUCTURAL MODIFICATIONS INCLUDE:
DRILLING, REMOVING, CUTTING, SAWING, SPLINTERING OR DAMAGING ANY STRUCTURAL MEMBERS INCLUDING FOOTINGS, POSTS, GIRTS, BEAMS, TRUSSES, PERLINS, PANELS, WINDOWS, DOORS, NAILS, SCREWS, AND BOLTS.
SUCH DESIGN MODIFICATIONS AND/OR STRUCTURAL MODIFICATIONS ALSO INCLUDE:
ADDING ADDITONS, SNOW DRIFT LOAD FROM ADDITIONS, LEAN-TO'S, ATTIC STORAGE, CHAIN HOISTS, OPENINGS, SKYLIGHTS, ROOF VENTS, AND LOUVERS.
SHIRK POLE BUILDINGS LLC WILL NOT BE LIABLE FOR ANY FAILURES RESULTING FROM THOSE MODIFICATIONS LISTED ABOVE, OR FROM ANY OTHER MODIFICATIONS NOT APPROVED BY A CERTIFIED ENGINEER.

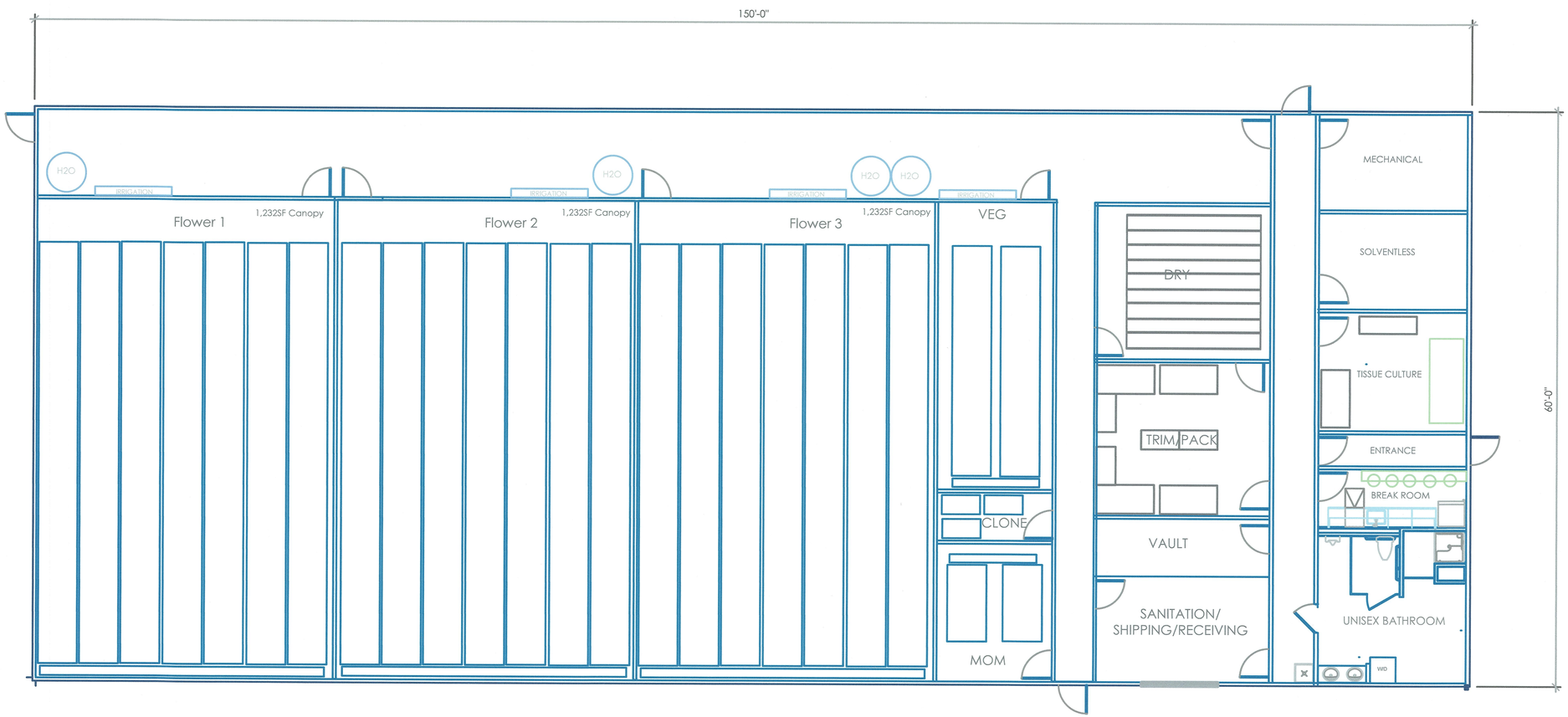
A4.13 CONTRACTOR LICENSING
NJ 13VH02705800 EXPIRES 3/31/2023

BUILDER
SHIRK POLE BUILDINGS LLC
807 READING ROAD EAST EARL, PA 17519
717-445-6888 FAX 717-445-3001

OWNER
SAL PIAZZA
1 ERIC COURT
LAWRENCEVILLE NJ

DRAWN BY:	ALS
REVIEW:	
REVISIONS:	
DATE: 12/8/21	
SITE: PIAZZA	
DETAILS	

A.4


150'-0"
60'-0"
H2O
IRRIGATION
Flower 1
1,232SF Canopy
Flower 2
1,232SF Canopy
Flower 3
1,232SF Canopy
VEG
CLONE
MOM
DRY
TRIM/PACK
VAULT
SANITATION/
SHIPPING/RECEIVING
MECHANICAL
SOLVENTLESS
TISSUE CULTURE
ENTRANCE
BREAK ROOM
UNISEX BATHROOM
W/D

DXB 100

DXB 50

DXB Mini CA

DXB Mini