

LEGEND:
 ~~~~~ DRAINAGE FLOW ARROW  
 FFE = FINISHED FLOOR ELEVATION  
 - - - - - LOT LINE

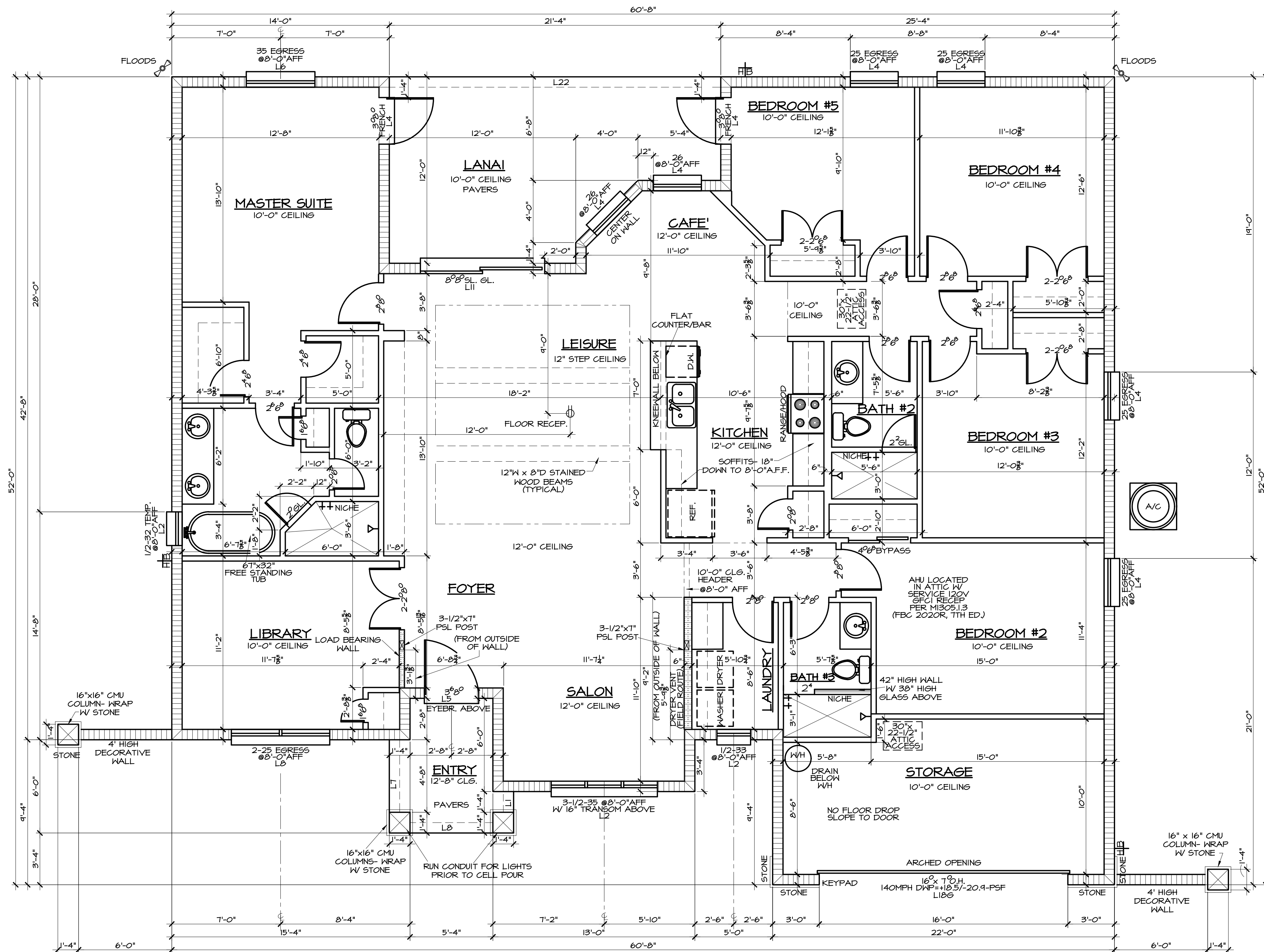
LEGEND:  
 ~~~~~ DRAIN  
 FFE = FINISH

| LINE TABLE | | | | |
|------------|--------|------------------|-----------------|-----------------|
| Line # | Length | Direction | Start Point | End Point |
| L1 | 110.67 | N1° 03' 50.02"W | (406.18,-50.02) | (404.12,60.63) |
| C1 | 76.84 | N11° 38' 47.15"W | (404.12,60.63) | (388.70,135.46) |
| C2 | 131.10 | N1° 03' 50.02"W | (388.70,135.46) | (386.32,263.58) |
| C3 | 76.84 | N9° 31' 07.12"E | (386.32,263.58) | (398.95,338.93) |
| L2 | 8.56 | N1° 03' 50.02"W | (398.95,338.93) | (398.79,347.49) |
| C4 | 260.89 | N25° 58' 37.09"W | (398.79,347.49) | (288.09,574.70) |
| L3 | 25.81 | N50° 53' 24.17"W | (288.09,574.70) | (268.06,590.98) |
| L4 | 130.00 | N39° 16' 03.51"W | (268.06,590.98) | (185.78,691.63) |

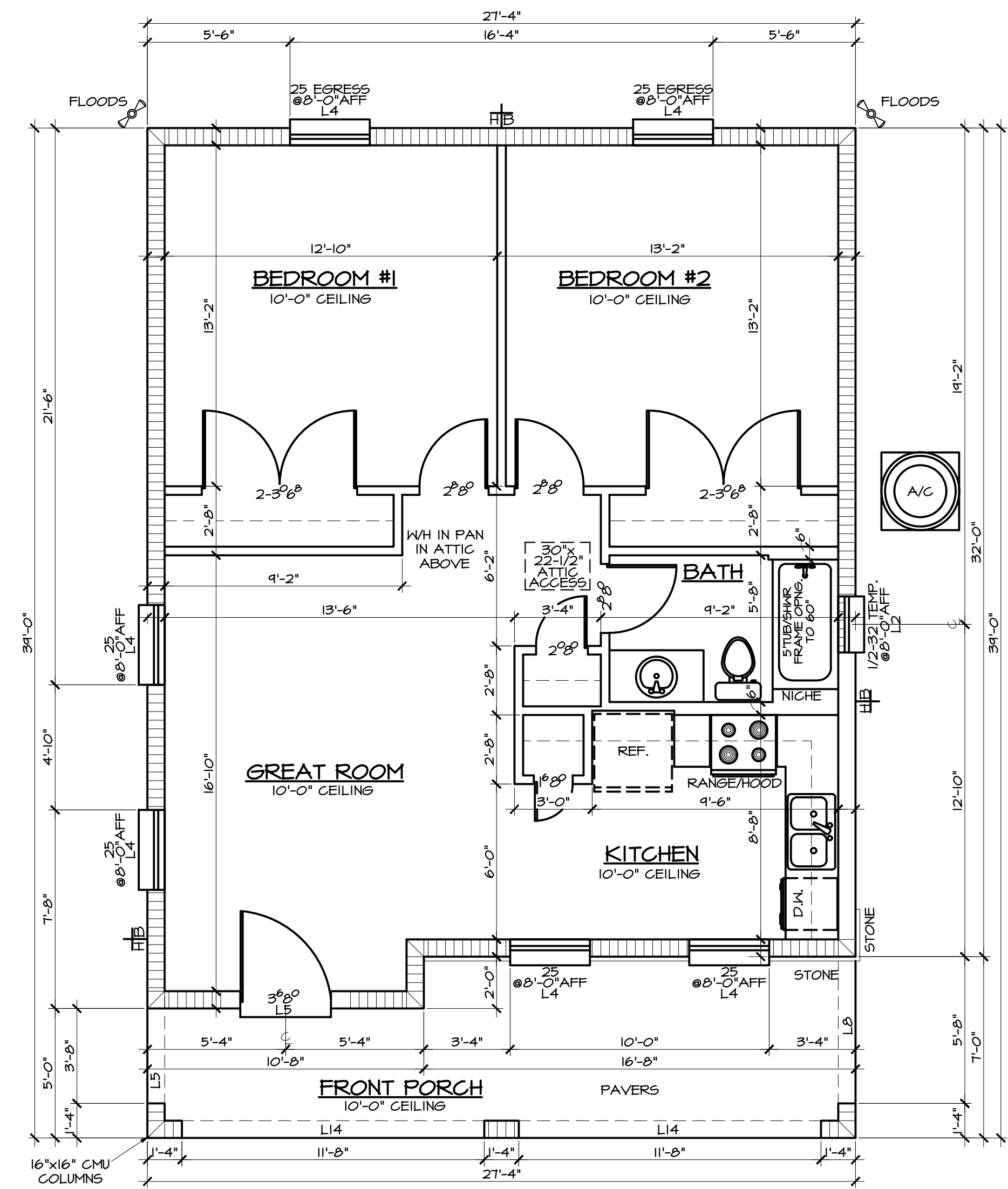
ADAM BARGER
 "THE MAXDIN 2"
 BARGER ESTATES
Site Plan
 1" = 40'-0"

ENGINEER OF RECORD:
ARKAY ENGINEERING INC.
 STRUCTURAL ENGINEERS
 1958 E. EDGEWOOD DRIVE LAKELAND, FLORIDA 33803
 PHONE: 863-688-6500 FAX: 863-688-6551
 STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION # EB6347
 RICHARD L. KIDDEY, P.E. - FLORIDA LICENSE # 37296

ARKAY #19632



Floor Plan
1/4" = 1'-0"



In-Law Suite Plan
1/4" = 1'-0"

* NOTE: ALL WINDOWS ARE SINGLE HUNG EXCEPT AS NOTED AS FIXED, TRANSOM, HALF CIRCLE, OR EYEBROW

| Plan Call Out | Width | Height | Sq. Ft. |
|---------------|-------|--------|---------|
| 12 | 14" | 26" | 3 |
| 13 | 14" | 38" | 5 |
| 14 | 14" | 50" | 7 |
| 15 | 14" | 63" | 8 |
| 16 | 14" | 72" | 10 |
| 17 | 14" | 90" | 12 |
| 1/2-32 | 26" | 26" | 5 |
| 1/2-33 | 26" | 38" | 7 |
| 1/2-34 | 26" | 50" | 9 |
| 1/2-35 | 26" | 63" | 11 |
| 1/2-36 | 26" | 72" | 13 |
| 1/2-37 | 26" | 90" | 16 |
| 22 | 31" | 26" | 7 |
| 23 | 31" | 38" | 10 |
| 24 | 31" | 50" | 13 |
| 25 | 31" | 63" | 16 |
| 26 | 31" | 72" | 19 |
| 27 | 31" | 90" | 22 |
| 32 | 53" | 26" | 10 |
| 33 | 53" | 38" | 14 |
| 34 | 53" | 50" | 18 |
| 35 | 53" | 63" | 23 |
| 36 | 53" | 72" | 27 |
| 37 | 53" | 90" | 32 |

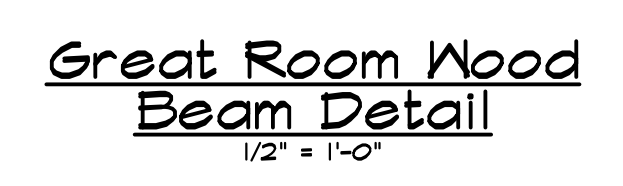
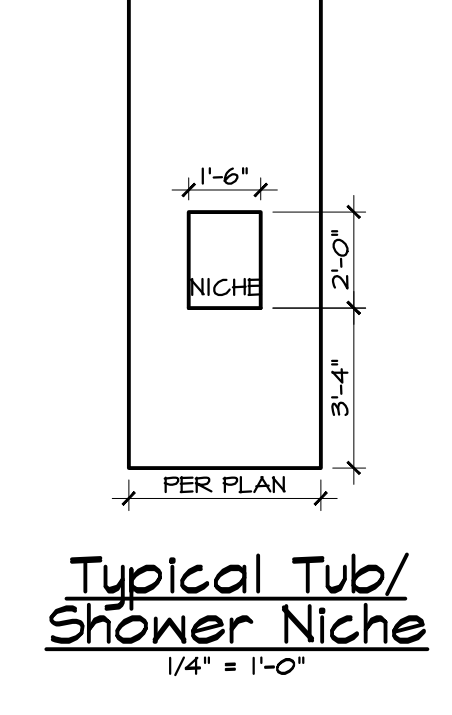
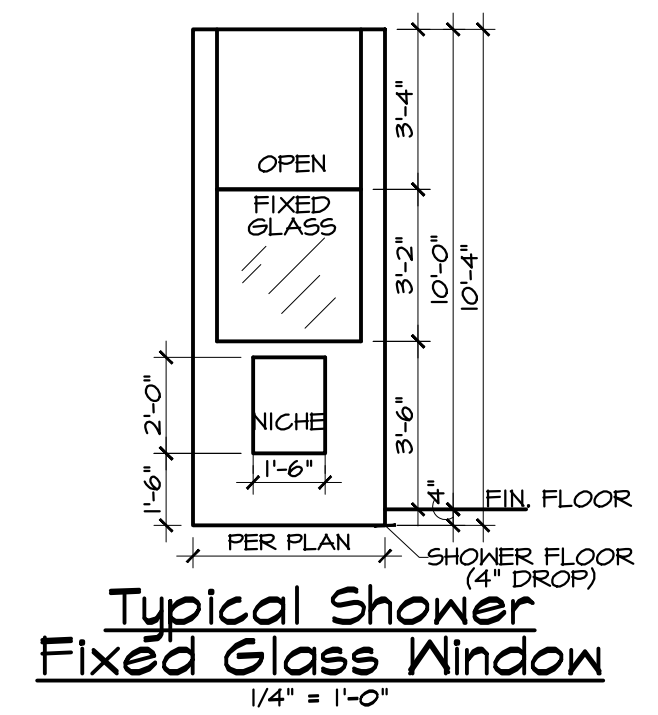
* MEETS MIN. EGRESS SIZE REQUIREMENTS PER IRC 2020 7th Ed. RES. R301.0

* ALL DOORS EXCEPT CLOSET DOORS ARE TO BE TI-ASTRAGAL DOORS

* ENTRY DOORS FROM GARAGE TO HOUSE MUST BE SOLID CORE CONSTRUCTION 20 MINUTE RATED DOOR W/ SELF-CLOSING GLASS SIDE LITES @ ENTRY DOORS MUST BE TEMPERED*

* FRONT DOOR INSTALLATION: TAPCONS TO BE LOCATED BEHIND WEATHERSTRIP

* BATH VENT FAN VENTS IN SOFFIT TO HAVE BLOCKING & TO BE LOCATED MIN. 3' FROM ANY WINDOW



| Concrete Intel Schedule | | | |
|-------------------------|------------|------------|--------------------------|
| Tag Nos. | Clear Span | Intel Size | Pre-cast And Prestressed |
| | | | TYPE/SIZE |
| L1 | 1'-6" | 2'-0" | 8"-U NOT REQ'D |
| L2 | 2'-2" | 3'-6" | 8"-U NOT REQ'D |
| L3 | 2'-8" | 4'-0" | 8"-U NOT REQ'D |
| L4 | 3'-2" | 4'-6" | 8"-U NOT REQ'D |
| L5 | 4'-0" | 5'-4" | 8"-F NOT REQ'D |
| L6 | 4'-6" | 5'-10" | 8"-U NOT REQ'D |
| L7 | 5'-2" | 6'-6" | 8"-F NOT REQ'D |
| L8 | 6'-2" | 7'-6" | 8"-F 1-#5 |
| L9 | 7'-0" | | NOT AVAILABLE |
| L10 | 8'-0" | 9'-4" | 8"-F 1-#5 |
| L11 | 9'-2" | 10'-6" | 8"-F 1-#5 |
| L12 | 10'-0" | 11'-4" | 8"-F 1-#5 |
| L13 | 11'-2" | 12'-6" | 8"-F 1-#5 |
| L14 | 12'-0" | 13'-4" | 8"-F 1-#5 |
| L15 | 12'-8" | 14'-0" | 8"-F 1-#5 T4B |
| L16 | 13'-4" | 14'-8" | 8"-PS-F 1-#5 T4B |
| L17 | 14'-0" | 15'-4" | 8"-PS-F 1-#5 T4B |
| L18 | 16'-0" | 17'-4" | 8"-PS-F 1-#5 T4B |
| L19 | 18'-0" | 19'-4" | 8"-PS-C 1-#5 T4B |
| L20 | 18'-8" | 20'-0" | 8"-PS-F-C 1-#5 T4B |
| L21 | 20'-8" | 22'-0" | 8"-PS-F-C 1-#5 T4B |
| L22 | 22'-8" | 24'-0" | 8"-PS-F-C 1-#5 T4B |

| AREAS: | |
|---------------|--------------|
| LIVING | 2,384 |
| GARAGE | 225 |
| ENTRY | 58 |
| LANAI | 214 |
| TOTAL: | 2,881 |

| AREAS: | |
|---------------|--------------|
| IN-LAW LIVING | 896 |
| IN-LAW PORCH | 170 |
| TOTAL: | 1,066 |

- DESIGN LOADS:
- Design conforms with Florida Bldg. Code 7th Edition (2020) (Building & Residential) Design Criteria for 140MPH Wind Forces Per ASCE/SEI T-16 Minimum Design Loads For Buildings & Other Structures.
 - Wood: No. 2 Grade Southern Pine Or Better
 - Risk Category II
 - MNFRS Chapters 26 Thru 24
 - Chap. 30: Components/Cladding (C4-C)
 - Excl: Low Rise Building
 - Doors & Windows: 147 PSF
 - Garage Door: 18.5/-20.4
 - Internal Pressure Coefficient: ± 0.18
 - Exposure: 'B'
 - Residential Category R3

| REVISIONS | BY |
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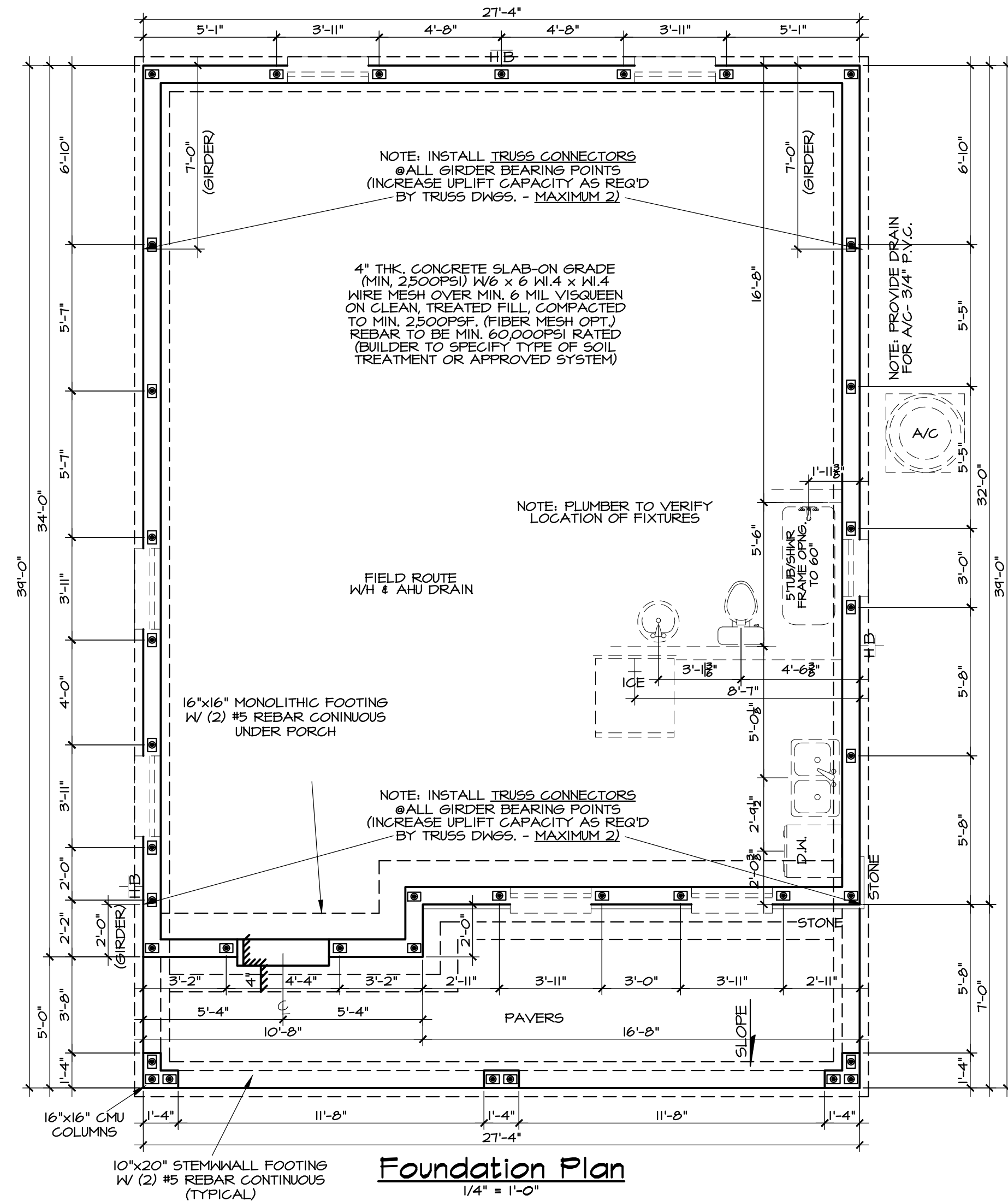
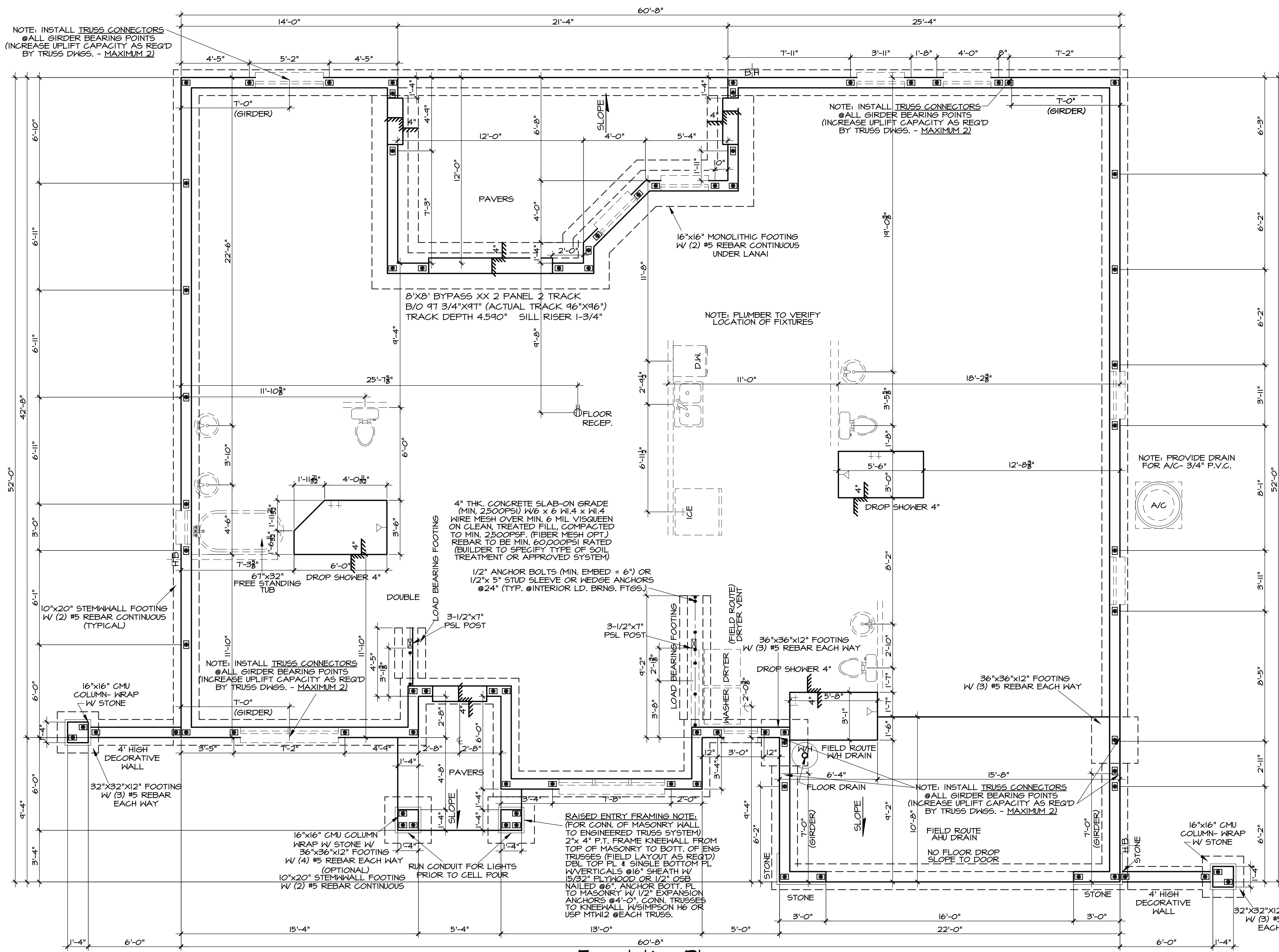
ENGINEER OF RECORD:
ARKAY ENGINEERING INC.
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1805 E. EGRESS BLVD. SUITE 100, APOBIA, FL 32608
PHONE: 863-647-5815 FAX: 863-647-5816
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RICHARD L. KIDDEY, P.E. - FLORIDA LICENSE # 97196

The Maxxin 2 Custom For:
Adam Barger
Lot #2, Barger Estates
Floor Plans

HULBERT HOMES, INC.
PHONE: 863-647-5815
FAX: 644-1125

ARKAY #19632
DRAWN BY: SDF
DATE CHECKED: 16 APR 2021
DATE: 27 JAN 2021
SCALE: AS NOTED
SHEET: 1
OF 5 SHEETS
PAPER SIZE: 24"x36"

NOTE: WINDOW SIZES ARE APPROXIMATE. Dimensions are from inside masonry and framing, rounded up to the nearest inch. Masonry walls = 8". Frame walls = 4". Address, zoning, drainage, and easements are not included in dimensions. Detail Coord. 2020.03.03 for: 2020.03.03



Foundation Plan
1/4" = 1'-0"

Foundation Plan
1/4" = 1'-0"

NOTES:

- FOOTING DOWEL & POURED CELL W/ #5 FROM SLAB TO BOND BEAM. DOWELS: 40"x10" LG. HOOK - MIN. EMBED. 5" INTO 8" FOOTINGS AND 6" IN ALL OTHERS MIN. LAP @ VERTICAL WALL REINFORCEMENT = 25"
- FOUNDATION CONTRACTOR TO VERIFY LOCATIONS OF REINFORCEMENT NEAR OPENINGS (FLOOR/FOUNDATION PLANS)
- ALL EXTERIOR WALLS ARE ENGINEERED AS SHEAR WALLS. SHEAR WALLS FOR SIDE & END WALLS CONFORM TO MIN. DESIGN REQUIREMENTS OF FBC 7th Ed. (2022) & PROVISIONS OF THE NATIONAL CONCRETE MASONRY ASSOC. SPECIFICATION AND ACI 530 (BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES)
- FOUNDATION PLAN IS VALID AS SHOWN UNLESS ADDITIONAL REQUIREMENTS ARE INDICATED ON SOILS TEST REPORT NOT AVAILABLE TO ENGINEER OF RECORD PRIOR TO THIS DESIGN

NOTE: OPTIONAL:
BORA-CARE SUBTERRANEAN TERMITE TREATMENT TO BE USED. APPLICATION TO GROUND FLOOR WOOD SURFACES ONLY PER CH. 893.01, FL. STATUTES FBC 2017, 6TH ED.

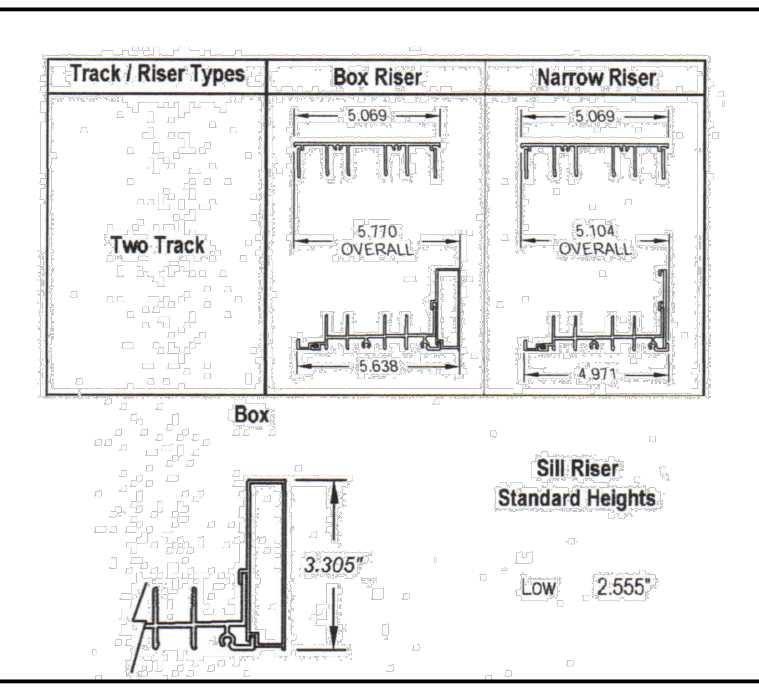
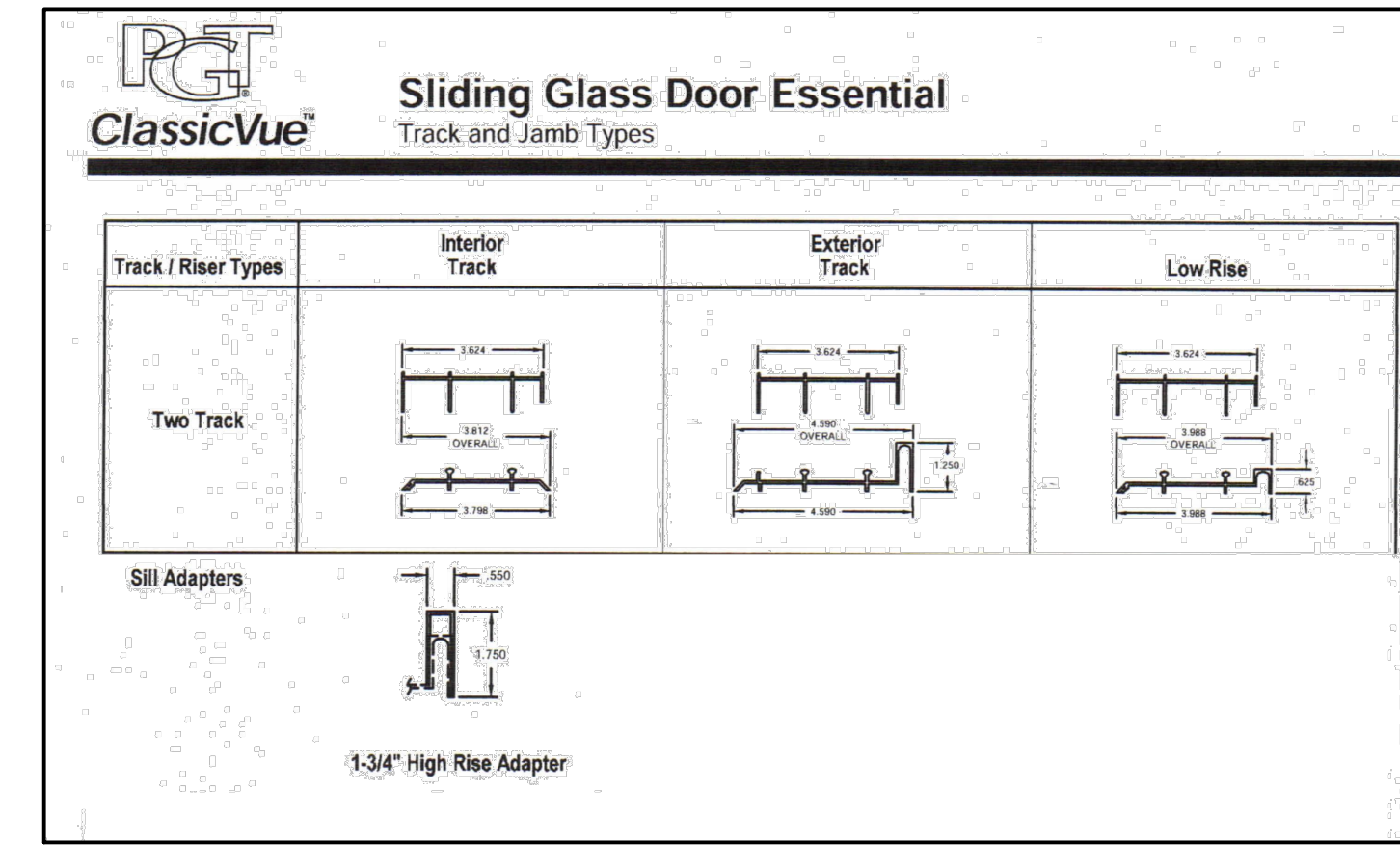
NOTE: FOUNDATION CONTRACTOR TO VERIFY PLACEMENT OF STEEL REINFORCEMENT CLEARS WINDOW OPENINGS VERIFY W/FLOOR PLAN

A FOUNDATION SURVEY SHALL BE PERFORMED AND A COPY OF THE SURVEY SHALL BE ON THE SITE FOR THE BUILDING INSPECTORS USE. OR ALL PROPERTY MARKERS SHALL BE EXPOSED AND A STRING ATTACHED FROM MARKER TO MARKER TO VERIFY REQUIRED SETBACKS.

BUILDER OPTION:
POWER BOX LINTELS (SEE LINTEL SCHEDULE) FOR CLEAR SPANS OVER 16'-0" UP TO 30'-0" USE POWER BOX LINTEL (8" x 16" 1600 COMPOSITE PET. 1) W/ #5 IN 8" x 16" CMUS. (PER POWERS STEEL CATALOG (MAY REPLACE MASONRY LINTELS))

ALL PLUMBING ELECTRICAL AND MECHANICAL ROUGH-INS MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING A FRAMING INSPECTION. (FBC 109.6)

| CONNECTOR SCHEDULE | | | |
|--------------------|---------|---------------|----------|
| SIMPSON | UP/LIFT | USP | |
| Stock Number | Uplift | Stock Number | Uplift |
| H25 | 415 | RT1 | 585 |
| H4 | 360 | RT4 | 410 |
| | | RT3 | 505 |
| H25A | 600 | RTTA | 635 |
| H6 | 415 | LFTA6 | 1015 |
| H10 | 405 | RT16 (F OR T) | 1225 |
| META12 | 1240 | TA12/TA14 | 825/1055 |
| | | HTA16-18 | 1400 |
| META14 THRU 20 | 1450 | TA16 THRU 36 | 1205 |
| META16 THRU 24 | 1805 | HTA16 THRU 48 | 1615 |
| AB144 | 2200 | PA144 | 2350 |
| AB166 | 2300 | PA166 | 2380 |
| BC4 | 490 | C44 | 1000 |
| BC46 | 490 | C46 | 1000 |
| LWS210-2 | 1710 | JWS210-2 | 1980 |
| LWS214-2 | 1710 | JWS214-2 | 1980 |
| PH4 | 705 | KPH4 | 860 |
| MYS12 | 1000 | MW12 | 1085 |
| LTS12 | 775 | LPTA | 1250 |
| LTS16 | 775 | LTH16 | 775 |
| MEHA3.56/425 | 3,145 | NFM35X100 | 3,450 |
| LFTA | 1205 | KLFTA | 1285 |
| H5 | 1300 | HD2X | 1415 |
| H16 | 1470 | RT22F | 1225 |
| M8T | 3,465 | HTT22 | 5,370 |
| H8T-3 | 10,530 | HJ8T3 | 9,860 |
| H8T-4 | 9,250 | HJ8T4 | 9,860 |
| ST4 | 755 | ST4 | 745 |
| LSTA30 | 1,640 | LSTA30 | 1,640 |
| HUC210-2 | 1,505 | HD210-2 (INV) | 1,575 |



MINIMUM STEM WALL HT. = 1'-4" AS SHOWN ON WALL SECTIONS. IF STEM WALL EXCEEDS 6'-0" IN HT. THE ENGINEER OF RECORD MUST REVIEW THE FOUNDATION PLAN TO DETERMINE IF MORE POURED CELLS ARE REQUIRED. IF STEM WALL EXCEEDS 5 COURSES - ALL CELLS INDICATED ON FOUNDATION PLAN MUST BE POURED FILL PRIOR TO BACKFILLING OF FOUNDATION.

- DESIGN LOADS:**
- Design conforms with Florida Bldg. Code 7th Edition (2022) (Building & Residential) Design Criteria for 140MPH Wind Forces For Buildings & Other Structures.
 - Wood: No. 2 Grade Southern Pine Or Better
 - Risk Category II
 - MinFRS Chapters 26 Thru 29
 - Chap. 30, Components/Cladding (C4 C) Part I: Low Rise Building Doors & Windows 147 PSF Garage Door 18.5'-20'-0"
 - Internal Pressure Coefficient: +0.18
 - Exposure 'B'
 - Residential Category R3

| REVISIONS | BY |
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ENGINEER OF RECORD:
ARKAY ENGINEERING INC.
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1818 E. EDELSON BLVD. SUITE 100, AURORA, FL 32805
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STATE OF FLORIDA CERT. OF AUTHORIZATION # EB0347
RICHARD L. KIDDEY, P.E. - FLORIDA LICENSE # 97196

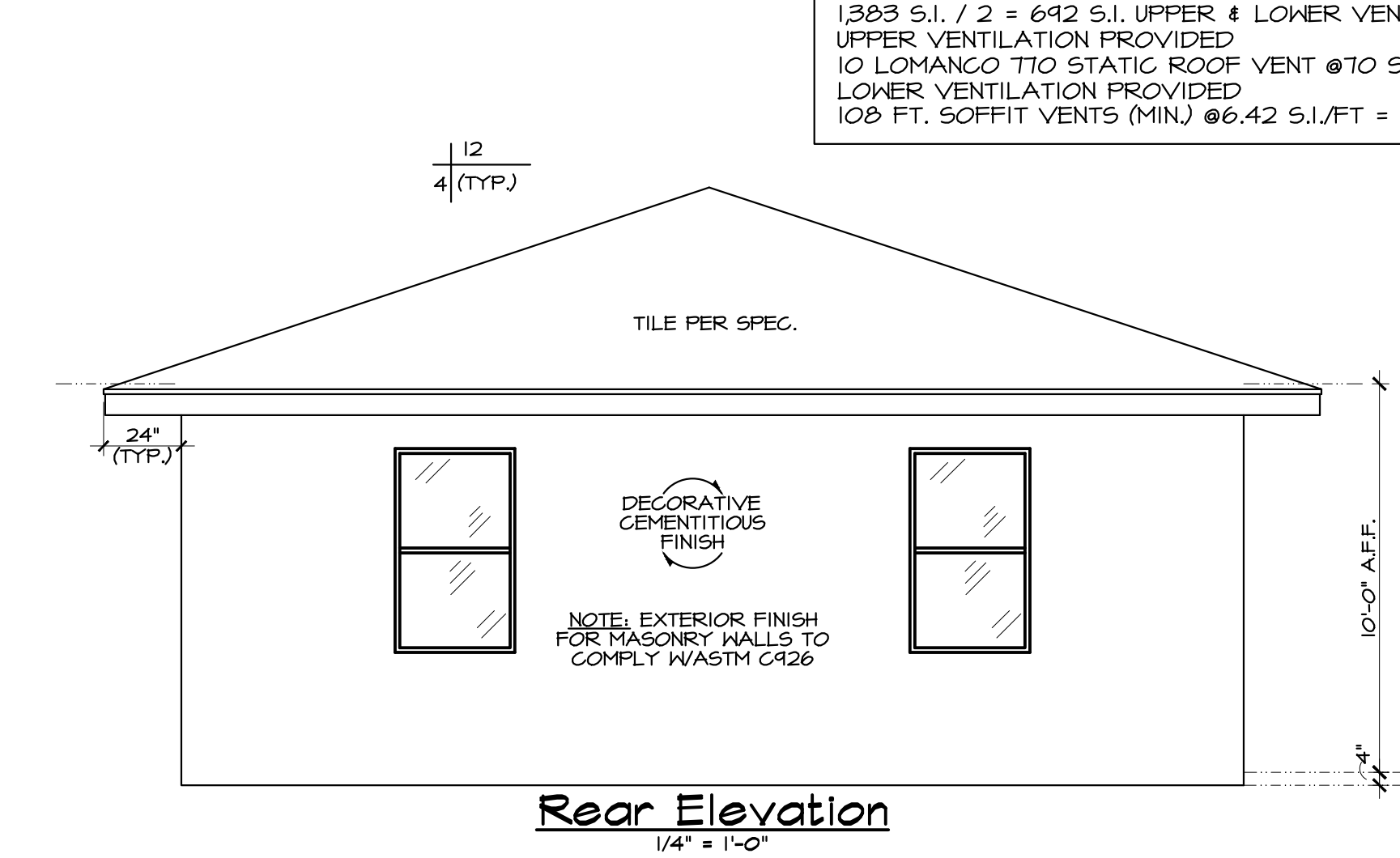
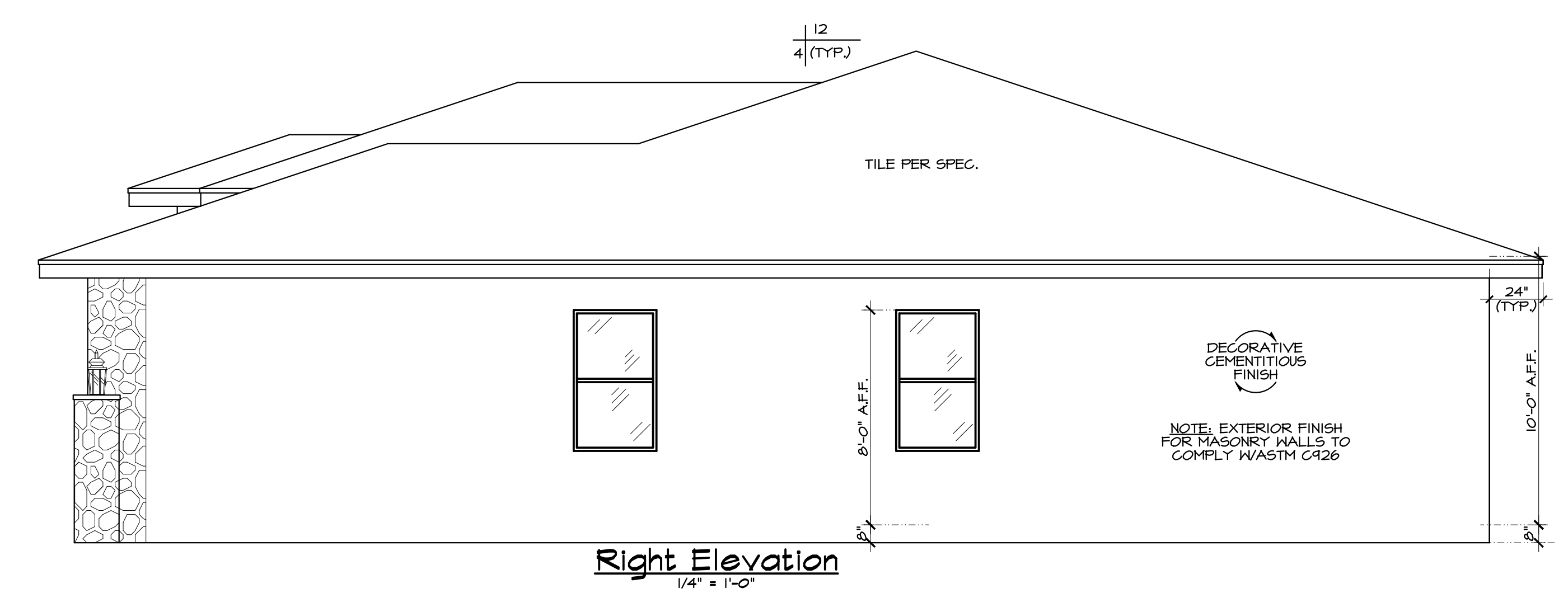
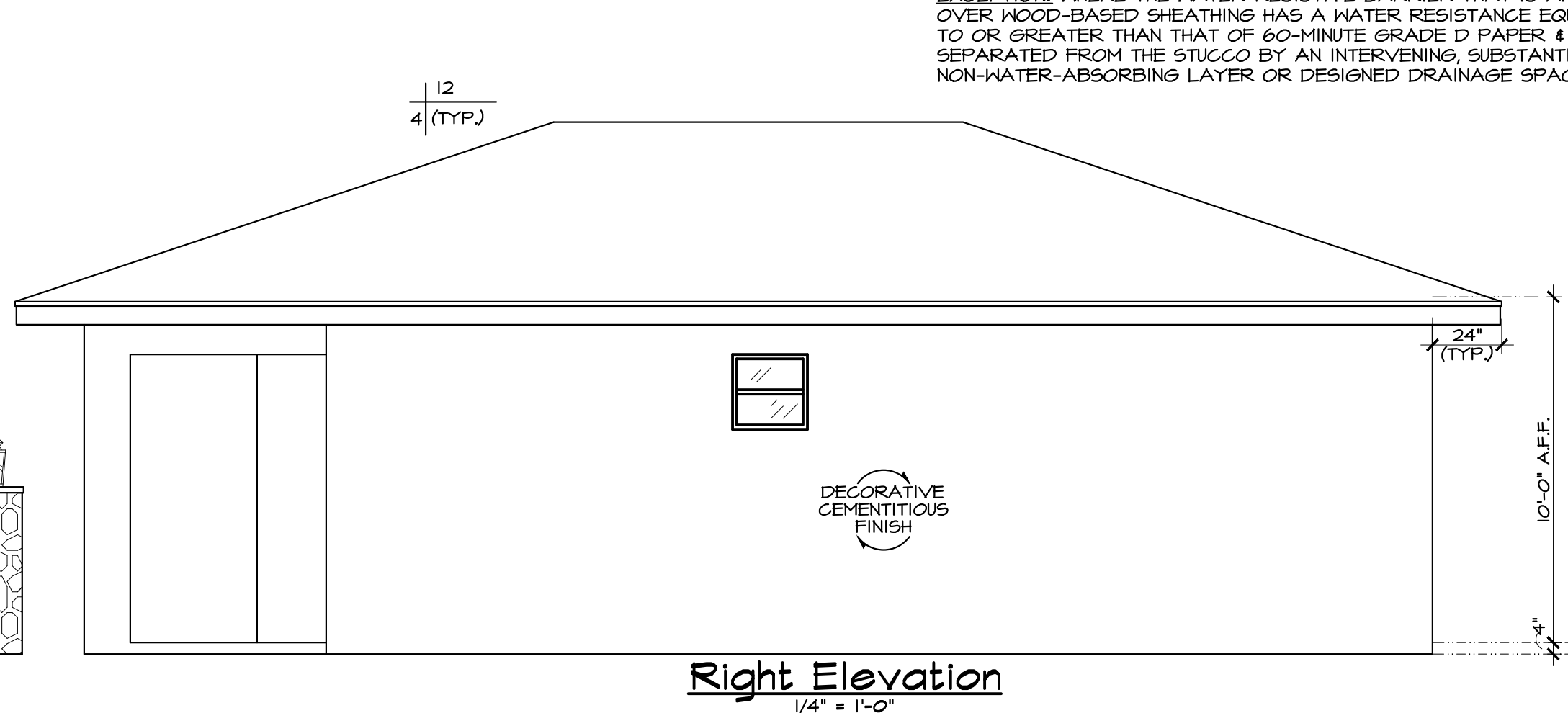
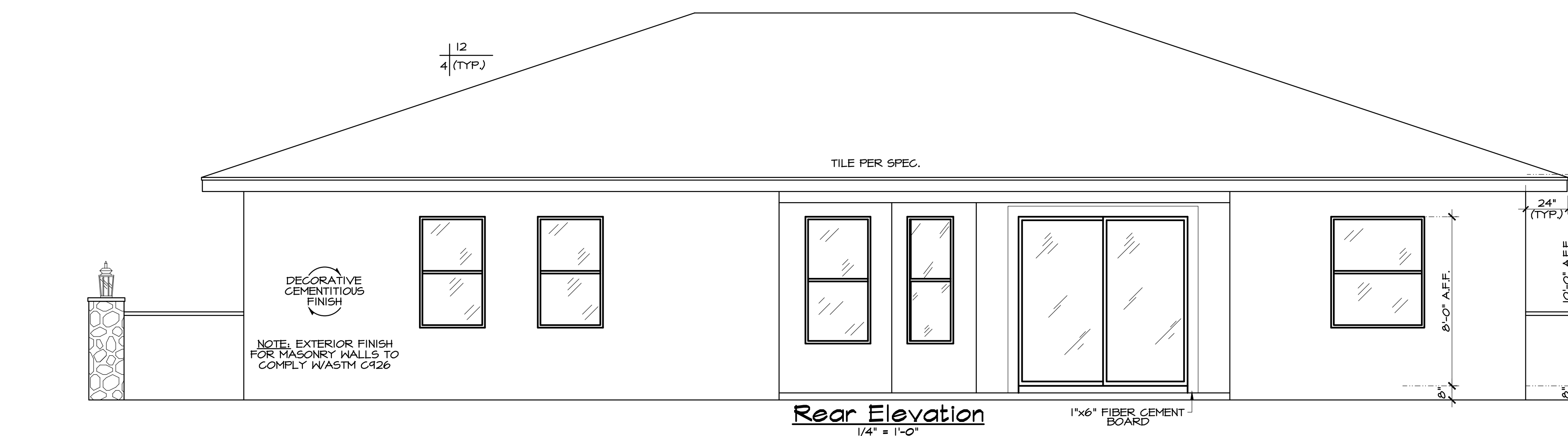
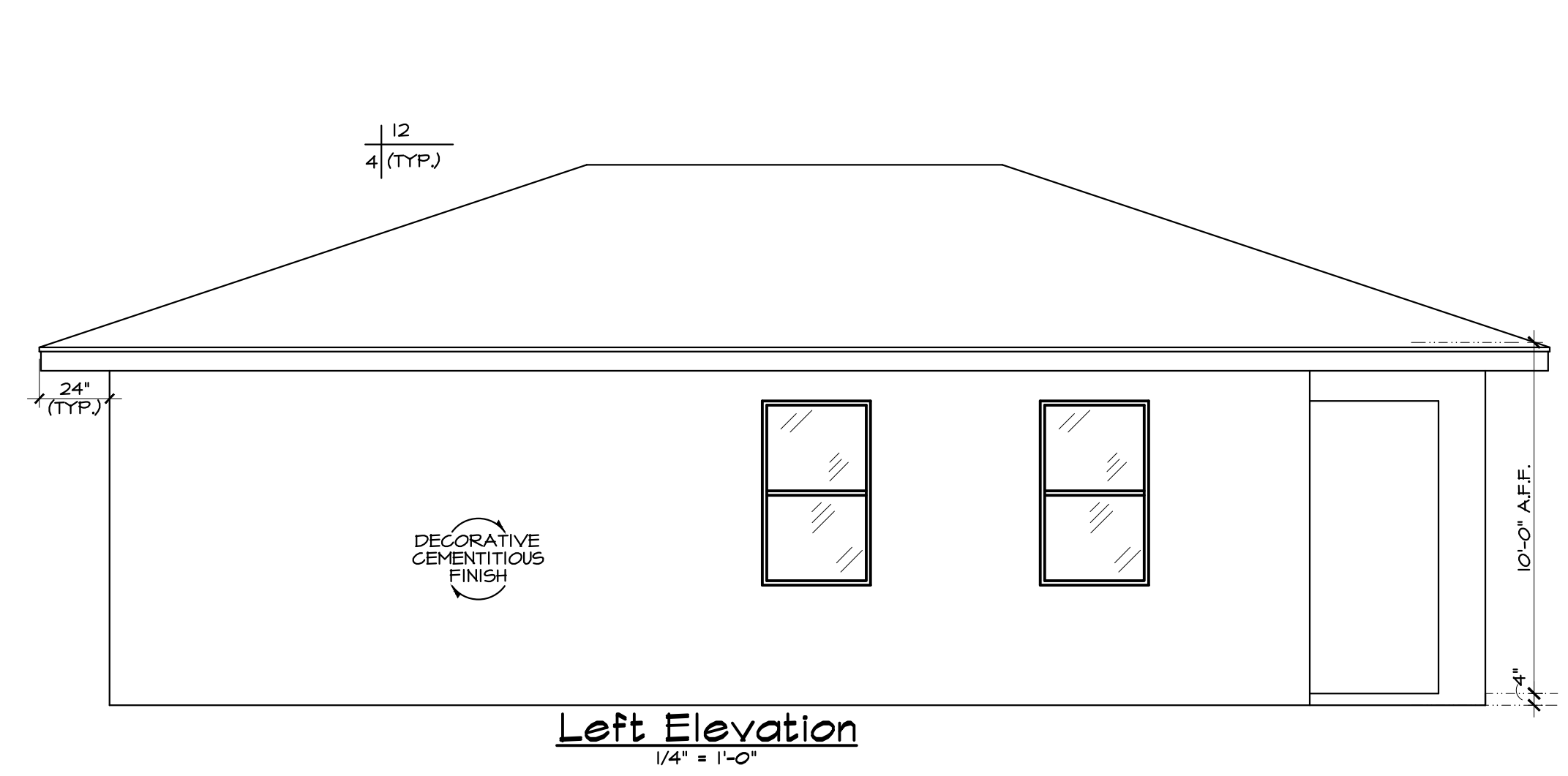
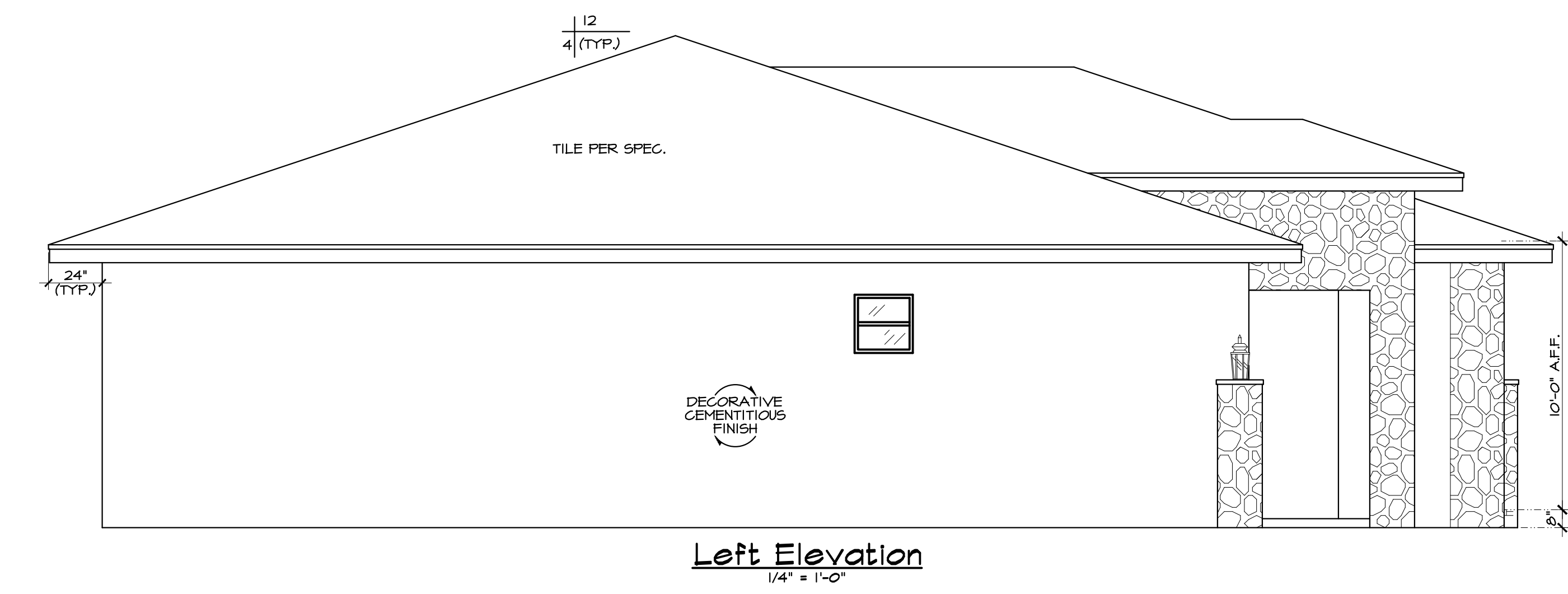
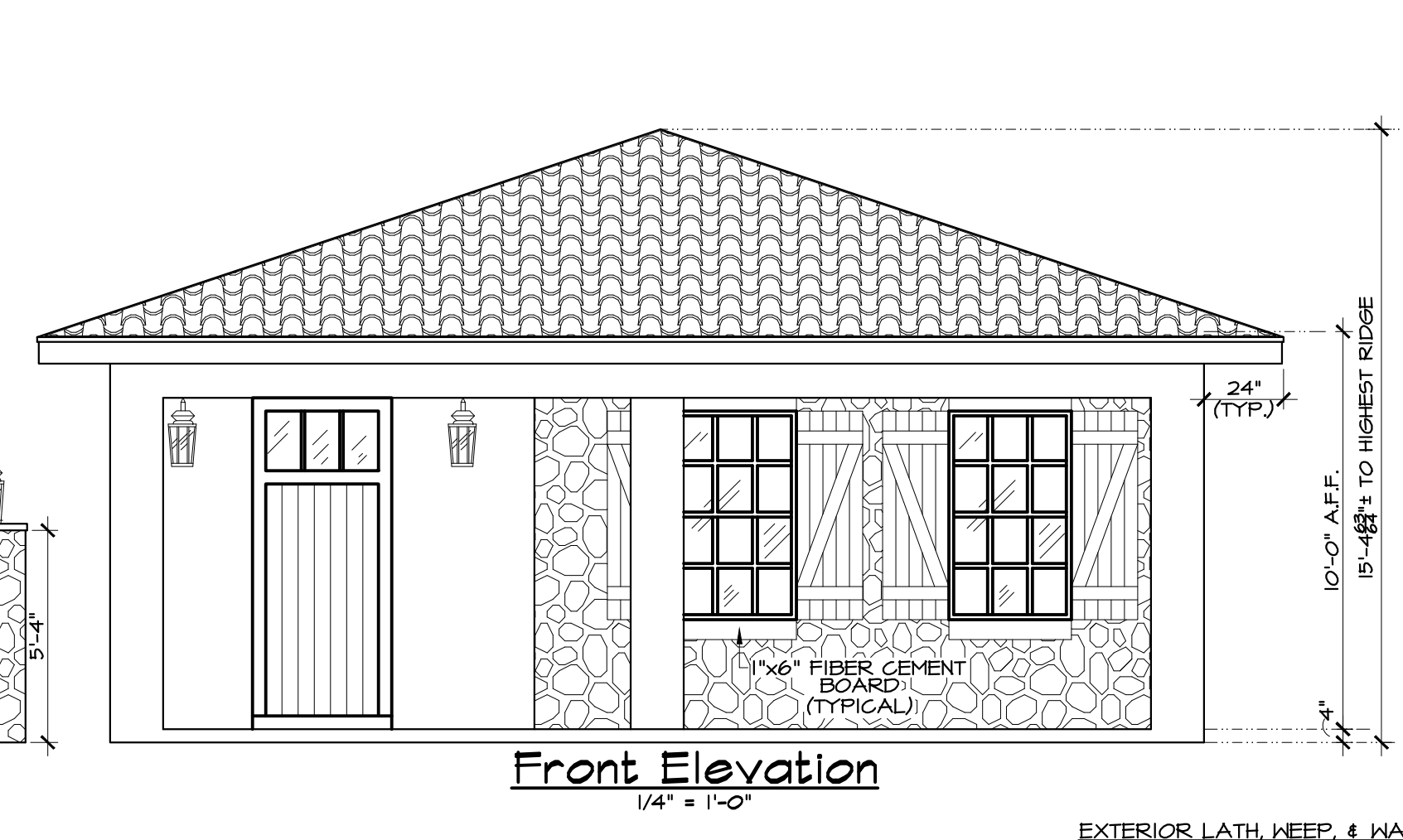
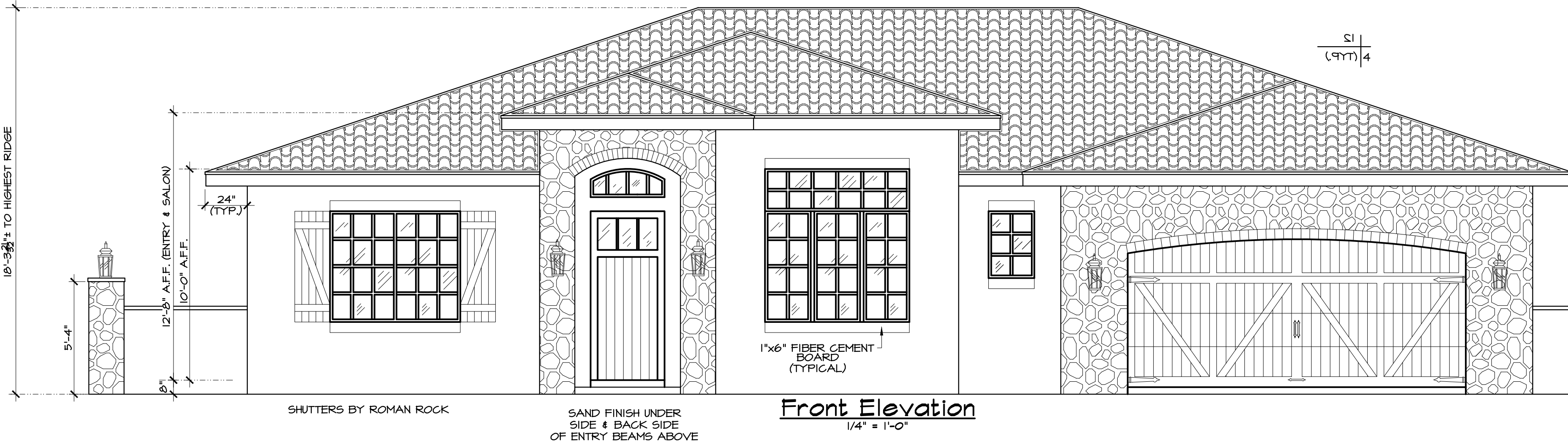
The Maxxin Custom For:
The Barger Residence
Lot #2, Barger Estates
Foundation Plans

HULBERT HOMES, INC.
PHONE: 863-647-5815
FAX: 644-1125

ARKAY #19632
DRAWN BY: SDF
DATE CHECKED: 16 APR 2021
DATE: 18 MAR 2021
SCALE: AS NOTED
SHEET: 2
OF 5 SHEETS
PAPER SIZE: 24" x 36"

NOTE: DIMENSIONS ARE APPROXIMATE. Dimensions are from inside masonry and framing, rounded up to the nearest 1/8" for masonry walls = 8". Frame walls = 4". Address, framing, drywall, insulation and accessories are not included in dimensions. Detail Coord. Issues only for: BARGE. Reproduction.

| REVISIONS | BY |
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EXTERIOR LATH, WEEP, & WATER RESISTIVE BARRIER NOTES:

- EXTERIOR PLASTER:** INSTALLATION OF THESE MATERIALS SHALL BE IN COMPLIANCE W/ ASTM C 426 & ASTM C 1063 & THEIR PROVISIONS OF THIS CODE.
- LATH:** ALL LATH & LATH ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIALS. EXPANDED METAL OR WOVEN WIRE LATH SHALL BE ATTACHED W/ 1-1/2-INCH-LONG (38 MM), 11 GAGE NAILS HAVING A 7/16-INCH (11.1MM) HEAD, OR 7/8-INCH LONG (22.2MM), 16 GAGE STAPLES, SPACED AT NO MORE THAN 6" (152 MM), OR AS OTHERWISE APPROVED.
- PLASTER:** PLASTERING WITH PORTLAND CEMENT PLASTER SHALL BE NOT LESS THAN 3 COATS WHEN APPLIED OVER METAL LATH OR WIRE LATH & SHALL BE NOT LESS THAN 2 COATS WHEN APPLIED OVER MASONRY, CONCRETE, PRESSURE-PRESERVATIVE TREATED WOOD OR DECAY-RESISTANT WOOD AS SPECIFIED IN SECTION R311.1 OR GYPSUM BACKING. IF THE PLASTER SURFACE IS COMPLETELY COVERED BY VENEER OR OTHER FINISHING MATERIAL, OR IS COMPLETELY CONCEALED, PLASTER APPLICATION NEED BE ONLY 2 COATS, PROVIDED THE TOTAL THICKNESS IS AS SET FORTH IN TABLE R102.1(I). THE PROPORTION OF AGGREGATE TO CEMENTITIOUS MATERIALS SHALL BE AS SET FORTH IN TABLE.
- WEEP SCREENS:** A MIN. 0.019-INCH (0.5 MM) NO. 26 GALVANIZED SHEET GAGE, CORROSION-RESISTANT WEEP SCREED OR PLASTIC WEEP SCREED, WITH A MIN. VERTICAL ATTACHMENT FLANGE OF 3-1/2 INCHES (84 MM) SHALL BE PROVIDED AT OR BELOW FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS IN ACCORDANCE W/ ASTM C 426. THE WEEP SCREED SHALL BE PLACED A MIN. OF 4 INCHES (102 MM) ABOVE THE EARTH OR 2 INCHES (51 MM) ABOVE PAVED AREAS & SHALL BE OF A TYPE OF THAT WILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. THE WEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER & TERMINATE ON THE ATTACHMENT FLANGE OF THE WEEP SCREED.
- WATER-RESISTIVE BARRIERS:** WATER-RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED IN SECTION R1403.2 & WHERE APPLIED OVER WOOD-BASED SHEATHING, SHALL INCLUDE A WATER-RESISTIVE VAPOR-PERMEABLE BARRIER W/ A PERFORMANCE AT LEAST EQUIVALENT TO 2 LAYERS OF GRADE D PAPER. THE INDIVIDUAL LAYERS SHALL BE INSTALLED INDEPENDENTLY SUCH THAT EACH LAYER PROVIDES A SEPARATE CONTINUOUS PLAN & ANY FLASHING (INSTALLED IN ACCORDANCE W/ SECTION R103.2) INTENDED TO DRAIN TO THE WATER-RESISTIVE BARRIER IS DIRECTED BETWEEN THE LAYERS.
EXCEPTION: WHERE THE WATER-RESISTIVE BARRIER THAT IS APPLIED OVER WOOD-BASED SHEATHING HAS A WATER RESISTANCE EQUAL TO OR GREATER THAN THAT OF 60-MINUTE GRADE D PAPER & IS SEPARATED FROM THE STUCCO BY AN INTERVENING SUBSTANTIALLY NON-WATER-ABSORBING LAYER OR DESIGNED DRAINAGE SPACE.

ATTIC SPACE VENTILATION CALCULATION:
 2,881 S.F. ATTIC AREA / 300 = 9.60 S.F. x 144 = 1,383 S.F.
 1,383 S.F. / 2 = 692 S.F. UPPER & LOWER VENTILATION REQUIRED
 UPPER VENTILATION PROVIDED
 10 LOMANCO T10 STATIC ROOF VENT @70 S.F. / EA = 700 > 692 S.F.
 LOWER VENTILATION PROVIDED
 108 FT. SOFFIT VENTS (MIN.) @6.42 S.F./FT = 693 > 692 S.F.

ATTIC SPACE VENTILATION CALCULATION FOR IN-LAW SUITE:
 1,066 S.F. ATTIC AREA / 300 = 3.55 S.F. x 144 = 511 S.F.
 511 S.F. / 2 = 256 S.F. UPPER & LOWER VENTILATION REQUIRED
 UPPER VENTILATION PROVIDED
 4 LOMANCO T10 STATIC ROOF VENT @70 S.F. / EA = 280 > 256 S.F.
 LOWER VENTILATION PROVIDED
 41 FT. SOFFIT VENTS (MIN.) @6.42 S.F./FT = 263 > 256 S.F.

DESIGN LOADS:

- Design conforms with Florida Bldg. Code
- 18 Edition (2022) Building & Residential Design Criteria for 140MPH Wind Forces Per ASCE/SEI 7-16 Minimum Design Loads For Buildings & Other Structures.
- Wood: No. 2 Grade Southern Pine Or Better
- MIFRS Chapters 26 Thru 28
- Chap. 30: Components/Cladding (C4-C)
- Part I: Low Rise Building
 Doors & Windows 44T PSF
 Garage Door 48.5/-20.4
- Internal Pressure Coefficient: ± 0.18
- Exposure 'B'
- Residential Category R3

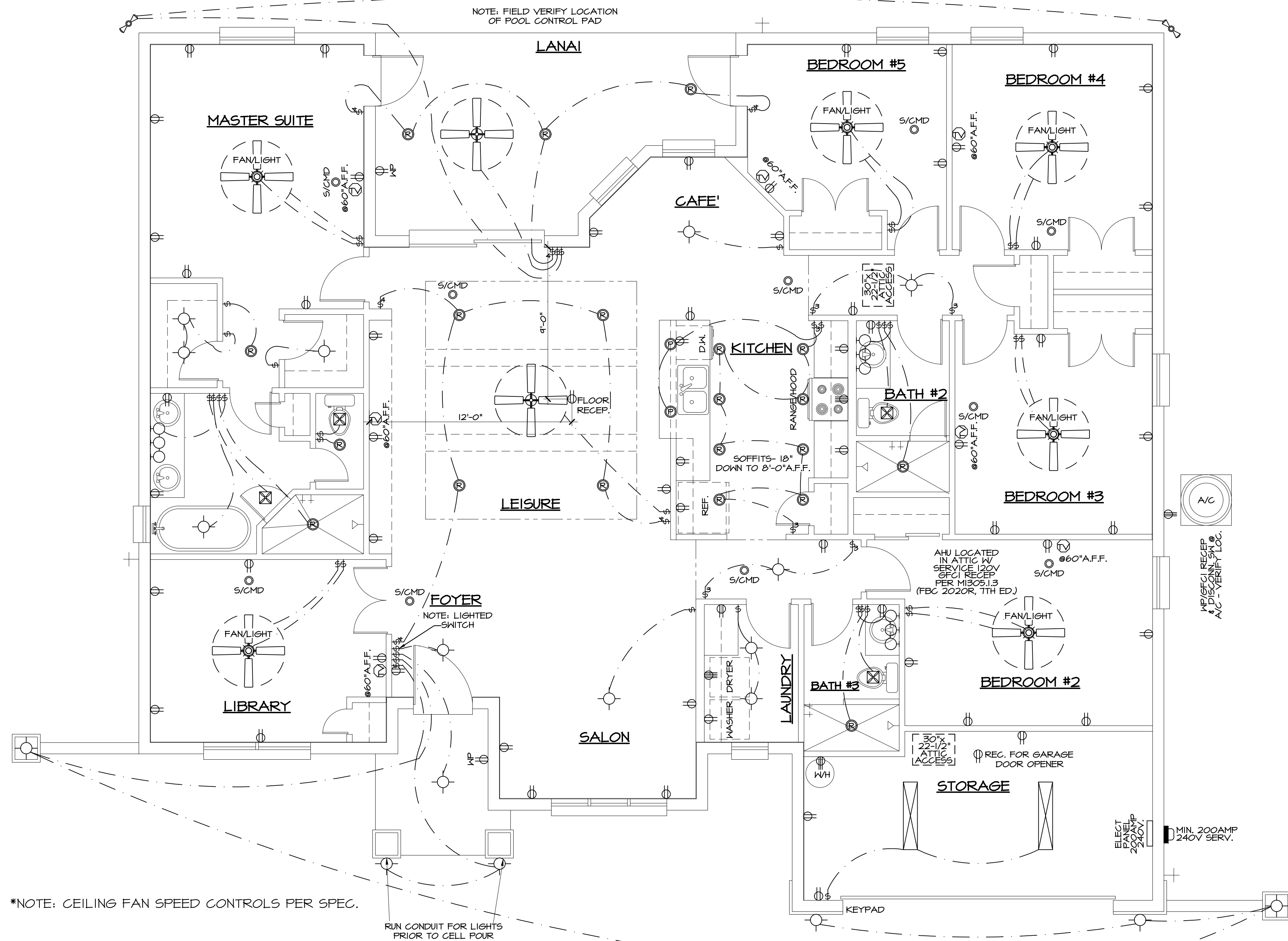
ENGINEER OF RECORD:
ARKAY ENGINEERING INC.
 STRUCTURAL ENGINEER
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 PHOENIX, ARIZONA 85005
 PHONE: 602-998-2600 FAX: 602-998-4555
 STATE OF FLORIDA CERT. OF AUTHORIZATION # EB9347
 RICHARD L. KIDDEY, P.E. - FLORIDA LICENSE # 97196

The Maxxin 2 Custom For:
Adam Barger
Lot #2, Barger Estates
Elevations

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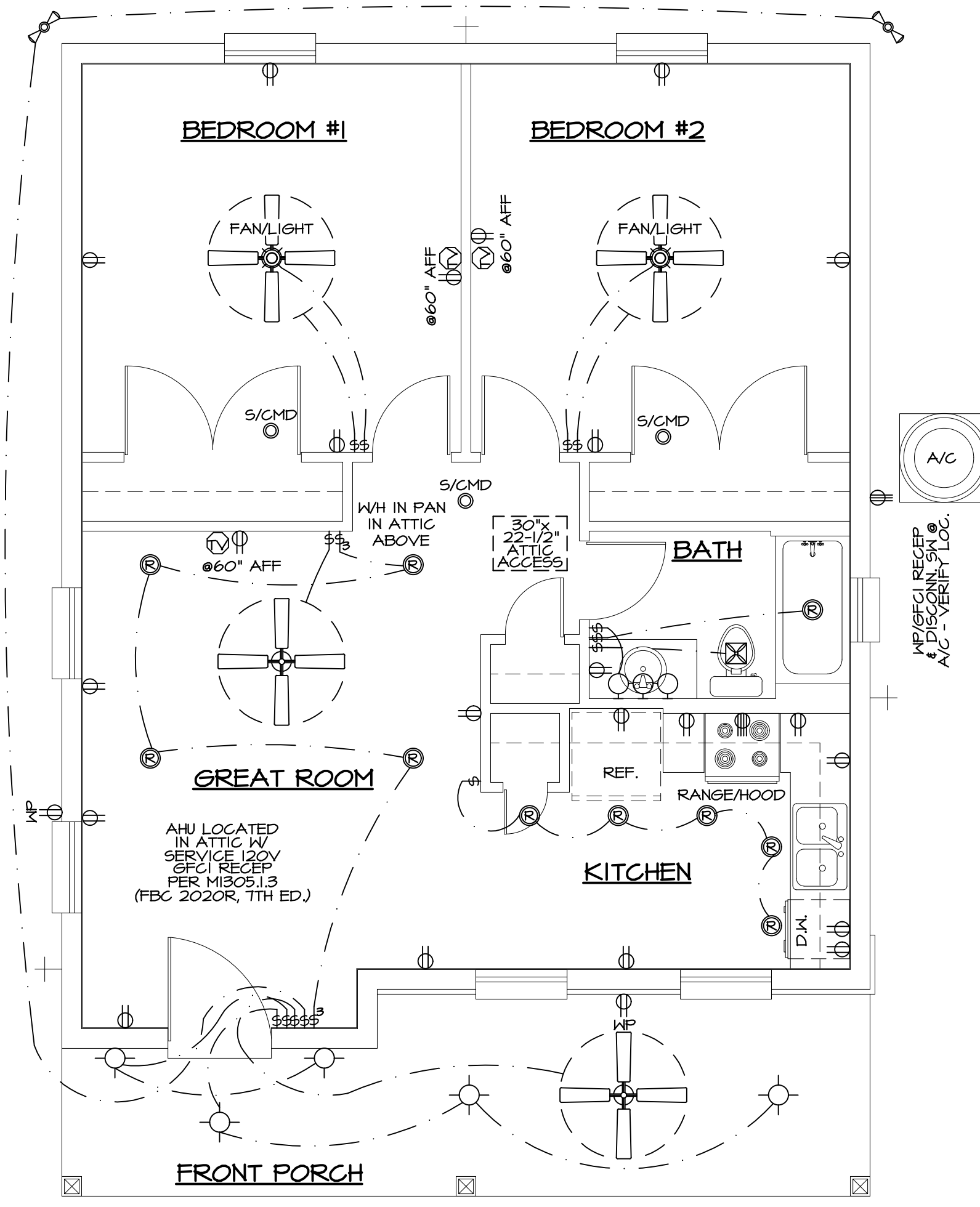
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NOTE: WINDOW SIZES ARE APPROXIMATE. Dimensions are from inside masonry and framing, rounded up to the nearest inch. Masonry walls = 8". Frame walls = 4". Address, framing, drywall, insulation and accessories are not included in dimensions. Detail Coord. 2405-2025-003-000-0000-0000-0000



*NOTE: CEILING FAN SPEED CONTROLS PER SPEC.
 RUN CONDUIT FOR LIGHTS PRIOR TO CELL FOUR

Lighting/Electrical Plan
 1/4" = 1'-0"



In-Law Suite Lighting/Electrical Plan
 1/4" = 1'-0"

| ELECTRICAL LEGEND | | | |
|-------------------|--------------------------|---|---------------------------|
| Ⓛ | DUPLEX RECEPTACLE | Ⓛ | LED LIGHT |
| Ⓛ | 220V RECEPTACLES | Ⓛ | TELEVISION OUTLET |
| Ⓛ | SPLIT-WIRED RECEPTACLE | Ⓛ | PHONE JACK |
| Ⓛ | WEATHERPROOF RECEPT. | Ⓛ | SMOKE DETECTOR * |
| Ⓛ | GROUND FAULT INTERRUPT * | Ⓛ | CARBON MONOXIDE DETECTOR* |
| Ⓛ | ARC FAULT INTERRUPT * | Ⓛ | COMBO SMOKE/CO DETECTOR* |
| Ⓛ | SINGLE SWITCH | Ⓛ | LIGHT FIXTURE |
| Ⓛ | THREE-WAY SWITCH | Ⓛ | DIMMER |
| Ⓛ | RECESSED CAN | Ⓛ | VENT FAN |
| Ⓛ | EYEBALL SPOT | Ⓛ | FLOODLIGHTS |
| Ⓛ | PENDANT HANGING LIGHT | Ⓛ | FAN FANLIGHT/HEATLAMP |
| Ⓛ | ACCENT LIGHT | Ⓛ | VENTALITE |

ELECTRICAL NOTES (NEC 2020):

- SMOKE/CO DETECTORS TO BE HARD WIRED & INTERCONNECTED IN BATTERY BACKUPS. *
- CO DETECTORS (GAS) TO BE PROVIDED @ GARAGE ENTRY DOORS ON RESIDENCE SIDE. *
- AFGI CIRCUITS, ALL CIRCUITS EXCEPT 6FGI PROTECTED TO BE AFGI PROTECTED. *
- W/TAMPER PROOF RECEPTACLES (PER NEC 2017)
- 6FGI PROTECTED CIRCUITS: ALL GARAGE, KITCHEN, BATH, LAUNDRY & EXTERIOR RECEPT.*
- PROVIDE 6FGI RECEPTACLE @ AHU FOR SERVICE TECHNICIAN
- PROVIDE 6FGI RECEPTACLE & DISCONNECT SWITCH @ A/C CONDENSER

* ALL LED BULBS WHEN POSSIBLE *

| | |
|--------|-------|
| AREAS: | |
| LIVING | 2,384 |
| GARAGE | 225 |
| ENTRY | 58 |
| LANAI | 214 |
| TOTAL: | 2,881 |

| | |
|---------------|-------|
| AREAS: | |
| IN-LAW LIVING | 896 |
| IN-LAW PORCH | 170 |
| TOTAL: | 1,066 |

DESIGN LOADS:

- Design conforms with Florida Bldg. Code 7th Edition (2020) (Building & Residential) Design Criteria for 140MPH Wind Forces Per ASCE/SEI 7-16 Minimum Design Loads For Buildings & Other Structures.
- Wood: No. 2 Grade Southern Pine Or Better
- Risk Category II
- MNFRS Chapters 26 Thru 24
- Chap. 30: Components/Cladding (C4 C) Part 1: Low Rise Building Doors & Windows ±47 PSF Garage Door ±18.5/-20.4
- Internal Pressure Coefficient: ± 0.18
- Exposure 'B'
- Residential Category R3

| REVISIONS | BY |
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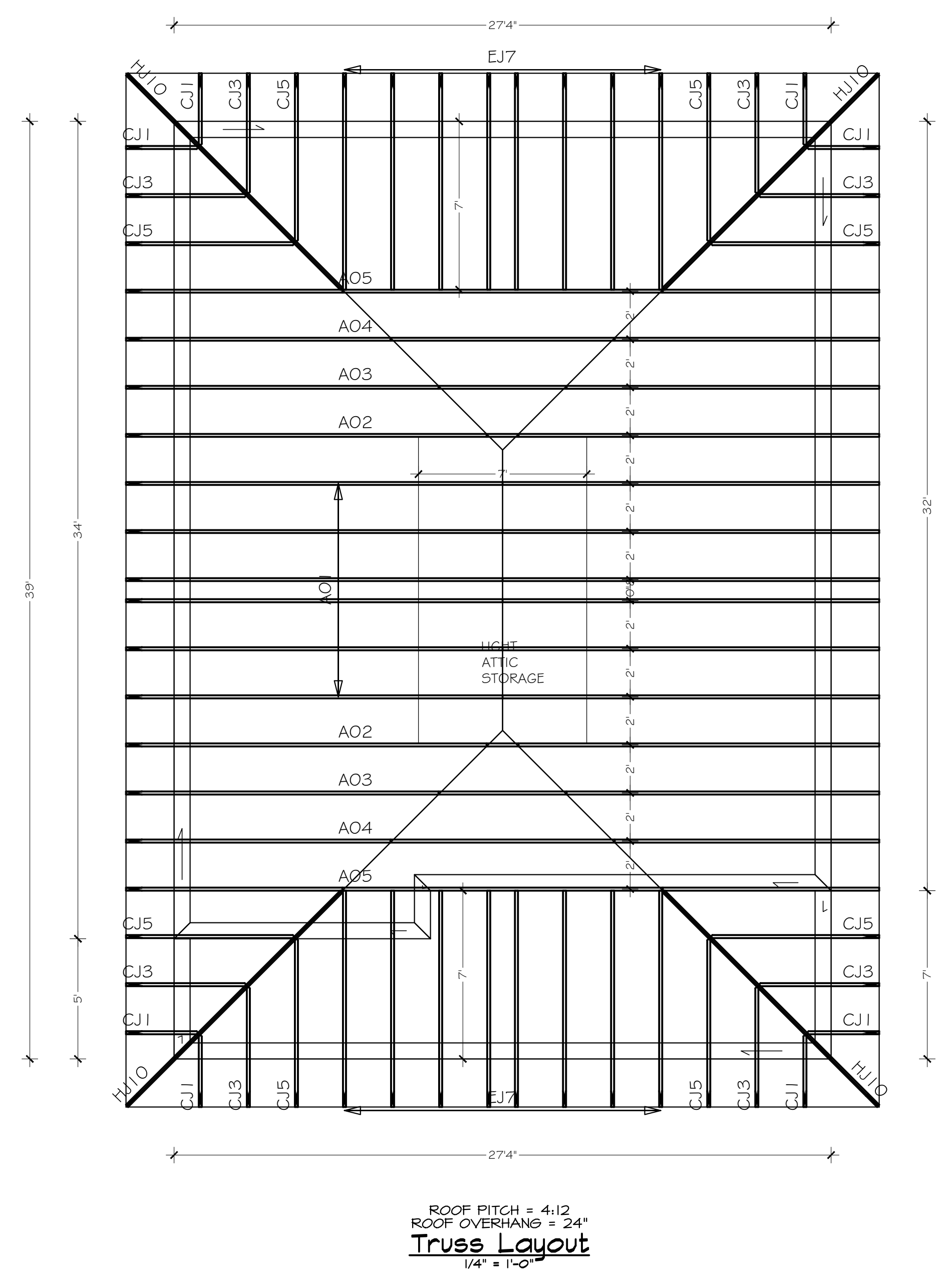
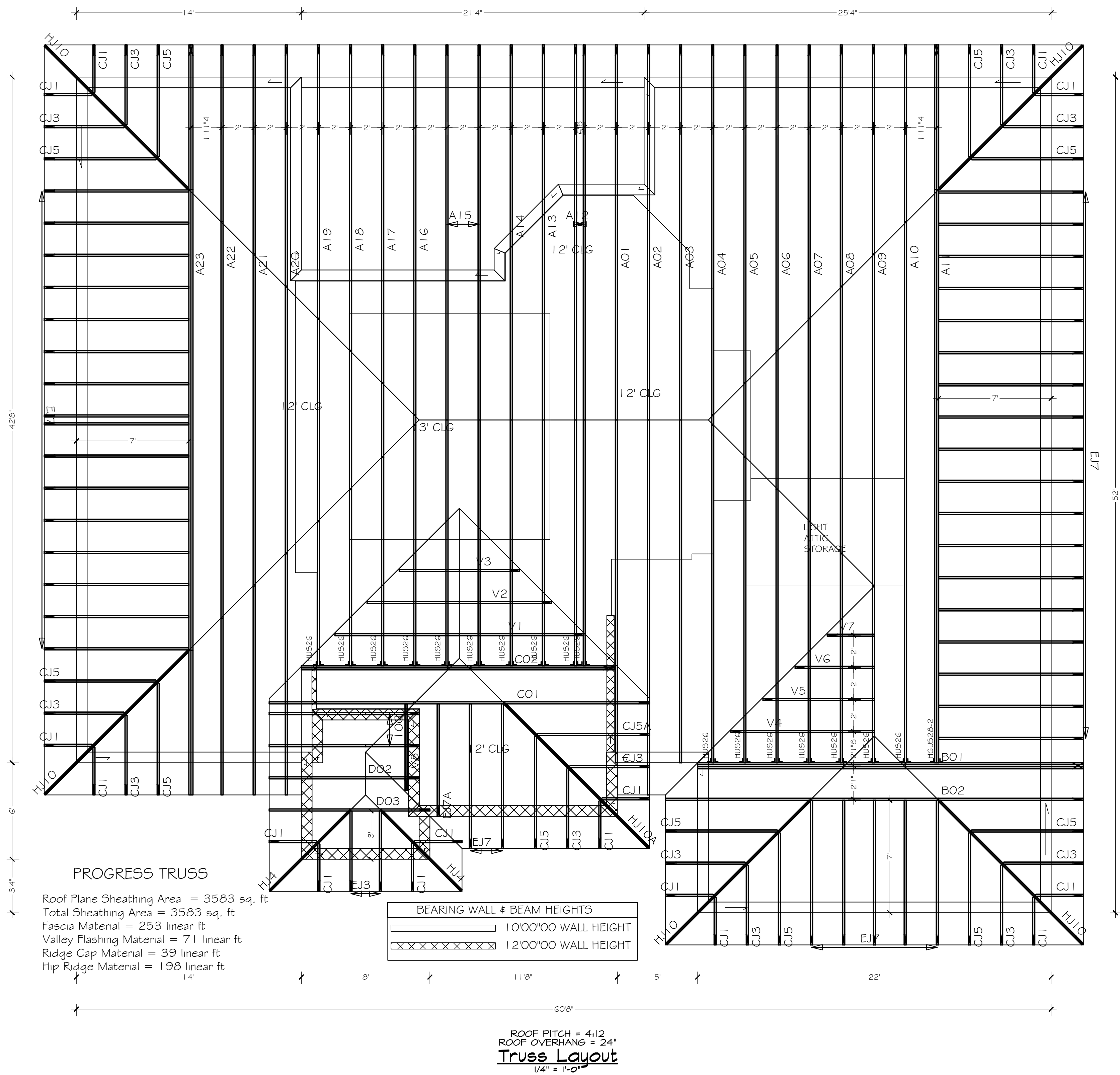
ENGINEER OF RECORD:
ARKAY ENGINEERING INC.
 STRUCTURAL ENGINEERS
 1800 E. EGRESS BLVD., SUITE 100, AURORA, FL 32005
 PHONE: 863-647-5815 FAX: 863-647-5815
 STATE OF FLORIDA CERT. OF AUTHORIZATION # EB8347
 RICHARD L. KIDDEY, P.E. - FLORIDA LICENSE # 97196

The Maxdin 2 Custom For:
Adam Barger
 Lot #2, Barger Estates
Lighting & Electrical Plans

Hulbert Homes, Inc.
 PHONE: 863-647-5815
 FAX: 644-1125

ARKAY #19632
 DRAWN BY SDF
 DATE CHECKED 16 APR 2021
 DATE 27 JAN 2021
 SCALE AS NOTED
 SHEET 4
 OF 5 SHEETS
 PAPER SIZE 24"x36"

NOTE: DIMENSIONS ARE APPROXIMATE. Dimensions are from inside masonry and framing, rounded up to the nearest inch. Masonry walls = 8". Frame walls = 4". All doors, terraces, stairs, porches, and balconies are to be finished in accordance with the architectural specifications.



| REVISIONS | BY |
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ENGINEER OF RECORD:

ARKAY ENGINEERING INC.
 STRUCTURAL ENGINEERS
 1800 E. EDELSON AVENUE, SUITE 100, JACKSONVILLE, FLORIDA 32205
 PHONE: 904-949-8600 FAX: 904-949-4957
 STATE OF FLORIDA CERT. OF AUTHORIZATION # EB634T
 RICHARD L. KIDDEY, P.E. - FLORIDA LICENSE # 97246

The Maxxin Custom For:
Adam Barger
Lot #2, Barger Estates
Truss Layouts

HULBERT HOMES, INC.
 PHONE: 863-647-5815
 FAX: 644-1125

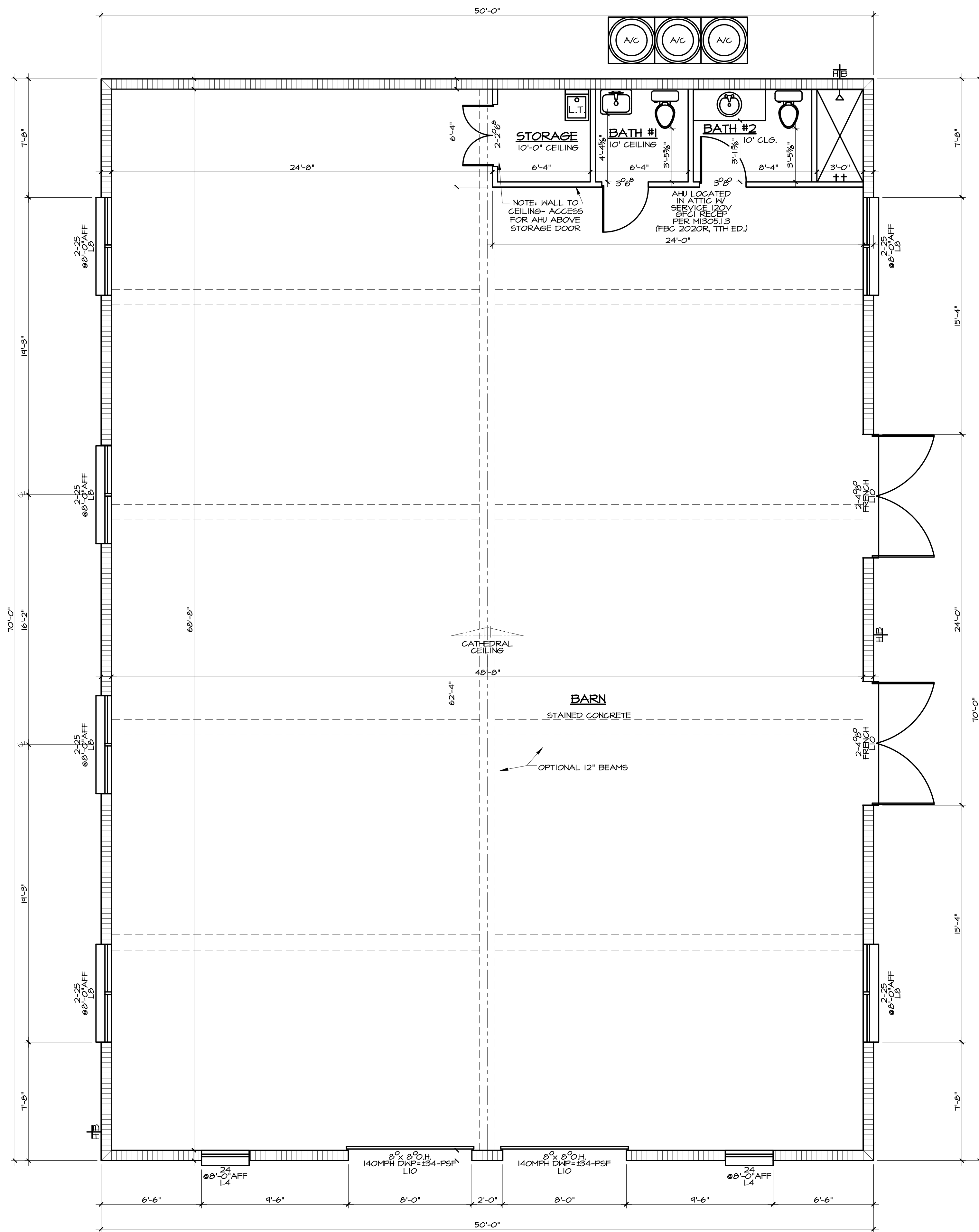
ARKAY #19632

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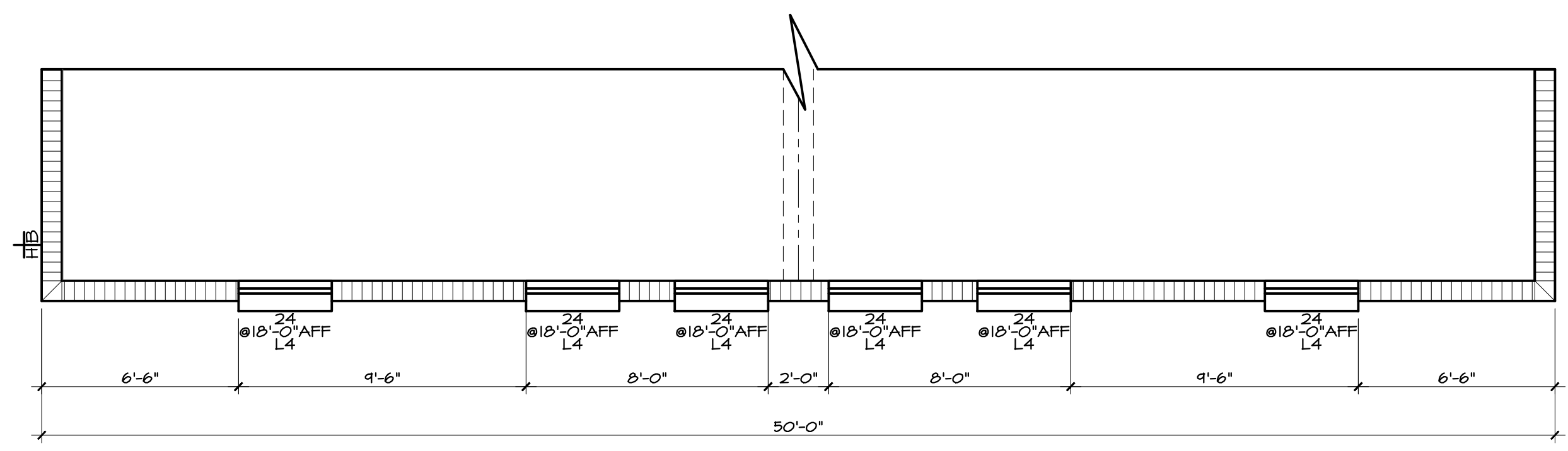
DATE
 27 MAR 2018
 SCALE
 AS NOTED
 SHEET
 5
 OF 5 SHEETS
 JOB NO.

- DESIGN LOADS:**
- Design conforms with Florida Bldg. Code 7th Edition (2020) (Building & Residential) Design Criteria for 140MPH Wind Forces Per ASCE/SEI 7-16 Minimum Design Loads For Buildings & Other Structures.
 - Wood: No. 2 Grade Southern Pine Or Better
 - Risk Category II
 - MINFRS Chapters 26 Thru 29
 - Chap. 30: Components/Cladding (C & C) Part I: Low Rise Building
 Roofs & Windows 4/4 PSF
 Garage Doors 40/20
 +10.5/-20.4
 - Internal Pressure Coefficients: ± 0.18
 - Exposure "B"
 - Residential Category R3

NOTE: REPORT SIZES ARE APPROXIMATE. Dimensions are from inside masonry and framing, rounded up to the nearest inch. Masonry walls = 8". Frame walls = 4". Vertical, Tertiary, or grill, Revision and Descriptors are all included in dimensions. Detail Locations are for illustration purposes.



Floor Plan
1/4" = 1'-0"



Upper Window Plan
1/4" = 1'-0"

* NOTE: ALL WINDOWS ARE SINGLE HUNG EXCEPT AS NOTED AS FIXED, TRANSOM, HALF CIRCLE, OR EYEBROW

| WINDOW SCHEDULE | | | | |
|-----------------|-------|--------|---------|---|
| Plan Call Out | Width | Height | Sq. Ft. | * |
| 12 | 19" | 26" | 3 | |
| 13 | 19" | 38" | 5 | |
| 14 | 19" | 50" | 7 | |
| 15 | 19" | 63" | 8 | |
| 16 | 19" | 72" | 10 | |
| 17 | 19" | 90" | 11 | |
| 1/2-32 | 26" | 26" | 5 | |
| 1/2-33 | 26" | 38" | 7 | |
| 1/2-34 | 26" | 50" | 9 | |
| 1/2-35 | 26" | 63" | 11 | |
| 1/2-36 | 26" | 72" | 13 | |
| 1/2-37 | 26" | 90" | 16 | |
| 22 | 37" | 26" | 7 | |
| 23 | 37" | 38" | 10 | |
| 24 | 37" | 50" | 13 | |
| 25 | 37" | 63" | 16 | * |
| 26 | 37" | 72" | 19 | * |
| 27 | 37" | 90" | 22 | * |
| 32 | 53" | 26" | 10 | |
| 33 | 53" | 38" | 14 | |
| 34 | 53" | 50" | 18 | |
| 35 | 53" | 63" | 23 | * |
| 36 | 53" | 72" | 27 | * |
| 37 | 53" | 90" | 32 | * |

* MEETS MIN. EGRESS SIZE REQUIREMENTS PER IRC 2020 10th Ed., RES. R301.

| CONNECTOR SCHEDULE | | | |
|--------------------|--------|---------------|-----------|
| SIMPSON | | USP | |
| Stock Number | Uplift | Stock Number | Uplift |
| H2.5 | 415 | RT1 | 585 |
| H4 | 360 | RT4 | 410 |
| | | RT3 | 505 |
| H2.5A | 600 | RT1A | 635 |
| H6 | 915 | LFTA6 | 1,015 |
| H10 | 905 | RT16 (F OR T) | 1,225 |
| META12 | 1,240 | TA12/TA14 | 825/1,155 |
| META14 THRU 20 | 1,450 | TA16 THRU 36 | 1,205 |
| META16 THRU 24 | 1,805 | HTA16 THRU 48 | 1,615 |
| AEU44 | 2,200 | PAU44 | 2,350 |
| AEU66 | 2,300 | PAU66 | 2,380 |
| BC4 | 980 | C44 | 1,000 |
| BC46 | 980 | C46 | 1,000 |
| LUS210-2 | 1,710 | JUS210-2 | 1,980 |
| LUS214-2 | 1,710 | JUS214-2 | 1,980 |
| KFA4 | 705 | KFA4 | 860 |
| MYS12 | 1,000 | MYS12 | 1,085 |
| LTS12 | 775 | LFTA | 1,250 |
| LTS16 | 775 | LFTA6 | 775 |
| MEHA36/M25 | 3,145 | NFMSX10U | 3,450 |
| LFTA | 1,205 | KLFTA | 1,235 |
| H5 | 1,300 | HD2X | 1,415 |
| H6 | 1,470 | RT22F | 1,225 |
| MGT | 3,465 | HTT22 | 5,370 |
| HST-3 | 10,530 | HU8T3 | 9,860 |
| HST-4 | 9,250 | HU8T4 | 9,860 |
| ST1 | 755 | ST1 | 745 |
| LSTA30 | 1,640 | LSTA30 | 1,640 |
| HUC210-2 | 1,505 | HD210-2 (INV) | 1,575 |

Concrete Intel Schedule

| Tag No. | Clear Span | Intel Size | TYPE/SIZE | | Rebar |
|---------|------------|------------|------------|------------|-------|
| | | | TYPE/SIZE | Notes | |
| L1 | 1'-6" | 2'-0" | 8"-U | NOT REQD | |
| L2 | 2'-2" | 3'-6" | 8"-U | NOT REQD | |
| L3 | 2'-8" | 4'-0" | 8"-U | NOT REQD | |
| L4 | 3'-2" | 4'-6" | 8"-U | NOT REQD | |
| L5 | 4'-0" | 5'-4" | 8"-U | NOT REQD | |
| L6 | 4'-6" | 5'-10" | 8"-U | NOT REQD | |
| L7 | 5'-2" | 6'-6" | 8"-F | NOT REQD | |
| L8 | 6'-2" | 7'-6" | 8"-F | 1 - #5 | |
| L9 | 7'-0" | 8'-6" | 8"-F | 1 - #5 | |
| L10 | 8'-0" | 9'-6" | 8"-F | 1 - #5 | |
| L11 | 9'-2" | 10'-6" | 8"-F | 1 - #5 | |
| L12 | 10'-0" | 11'-4" | 8"-F | 1 - #5 | |
| L13 | 11'-2" | 12'-6" | 8"-F | 1 - #5 | |
| L14 | 12'-0" | 13'-4" | 8"-F | 1 - #5 | |
| L15 | 12'-8" | 14'-0" | 8"-F | 1 - #5 T4B | |
| L16 | 13'-4" | 14'-8" | 8"-PS-F | 1 - #5 T4B | |
| L17 | 14'-0" | 15'-4" | 8"-PS-F | 1 - #5 T4B | |
| L18 | 16'-0" | 17'-4" | 8"-PS-F | 1 - #5 T4B | |
| L19 | 18'-0" | 19'-4" | 16"-PS-C | 1 - #5 T4B | |
| L20 | 18'-8" | 20'-0" | 16"-PS-F-C | 1 - #5 T4B | |
| L21 | 20'-8" | 22'-0" | 16"-PS-F-C | 1 - #5 T4B | |
| L22 | 22'-8" | 24'-0" | 16"-PS-F-C | 1 - #5 T4B | |

Garage Door Intels

Garage Door W/Bonus Room Above

| | | | | |
|------|--------|--------|----------|------------|
| L18B | 16'-0" | 17'-4" | 24"-PS-F | 1 - #5 T4B |
| L18S | 18'-0" | 19'-4" | 16"-PS-F | 1 - #5 T4B |
| L18B | 16'-0" | 17'-4" | 24"-PS-C | 1 - #5 T4B |
| L18S | 18'-0" | 19'-4" | 16"-PS-C | 1 - #5 T4B |

* ENTRY DOORS FROM GARAGE TO HOUSE MUST BE SOLID CORE CONSTRUCTION 20 MINUTE RATED DOOR W/ SELF CLOSER GLASS SIDE LITES & ENTRY DOORS MUST BE TEMPERED*

- DESIGN LOADS:**
- Design conforms with Florida Bldg. Code 7th Edition (2020) (Building 4 Residential) Design Criteria For 140MPH Wind Forces Per ASCE/SEI 7-16 Minimum Design Loads For Buildings & Other Structures.
 - Wind: No. 2 Grade Southern Pine Or Better
 - Risk Category II
 - MFPS Chapters 26 Thru 24
 - Chap. 30, Components/Cladding (C4 C) Part I: Low Rise Building Doors & Windows #41 PSF Garage Door #10.5/20.1
 - Internal Pressure Coefficient: ± 0.18
 - Exposure B
 - Residential Category R3

| AREAS: | |
|--------|-------|
| BARN | 3,500 |
| TOTAL: | 3,500 |

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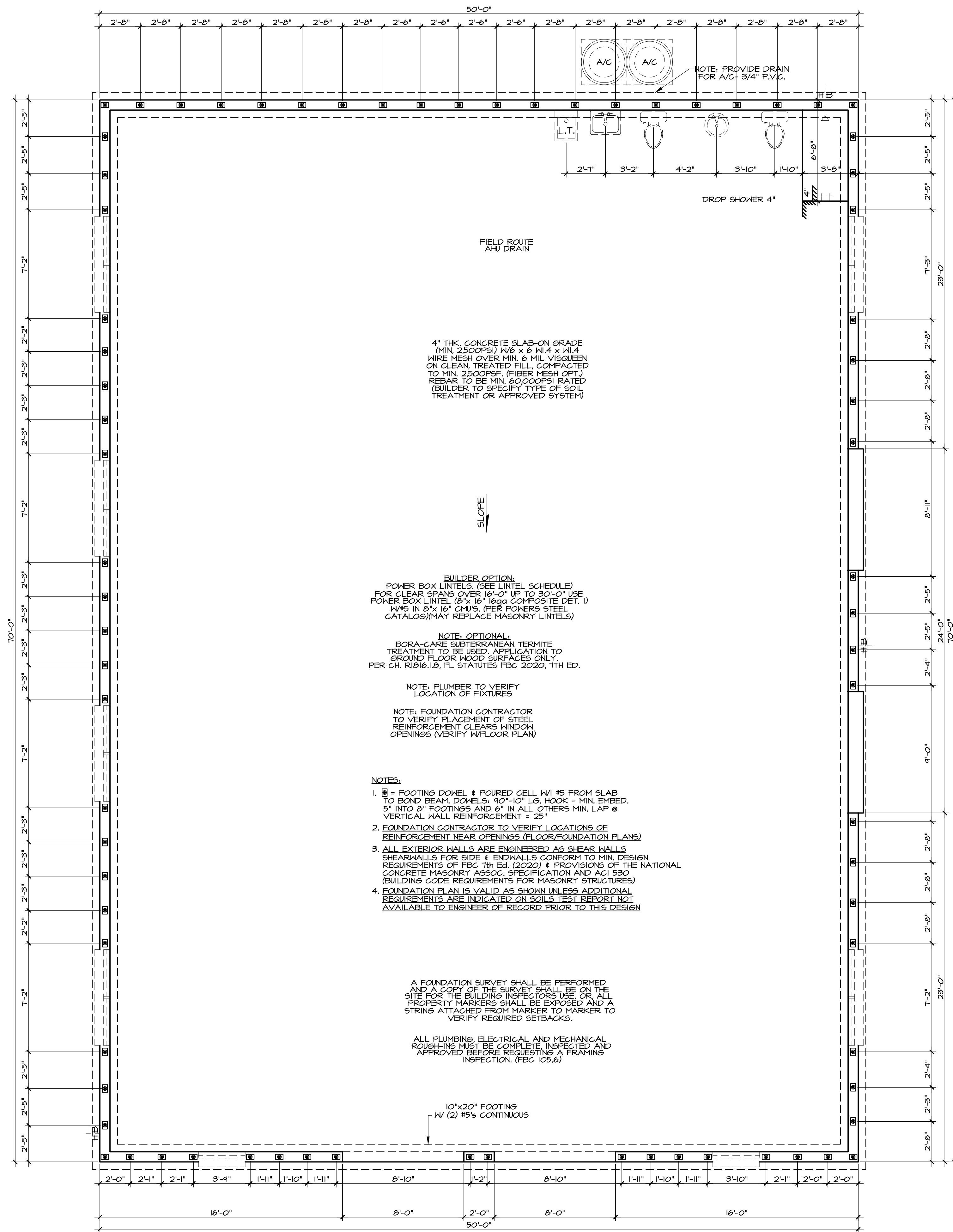
ENGINEER OF RECORD:
ARKAY ENGINEERING INC.
STRUCTURAL ENGINEERS
1850 E. EUGENIA AVE., SUITE 100, LITHIA, FL 34803
PHONE: 863-647-5815 FAX: 863-647-5815
STATE OF FLORIDA CERT. OF AUTHORIZATION # EB9347
RICHARD L. KIDDEY, P.E. - FLORIDA LICENSE # 97216

A Barn Custom For:
The Barger Residence
Lot #2, Barger Estates, Lithia, FL
Floor Plan

HULBERT HOMES, INC.
PHONE: 863-647-5815
FAX: 644-1125

ARKAY #19632
DRAWN BY: GDF
DATE CHECKED: 16 APR 2021
DATE: 8 NOV 2017
SCALE: AS NOTED
SHEET: 1
OF 4 SHEETS
PAPER SIZE: 24"x36"

NOTE: DIMENSIONS ARE APPROXIMATE. Dimensions are from inside masonry and framing, rounded up to the nearest inch. Masonry walls ± 8". Frame walls ± 4". Windows, doors, and glass are shown. Details, materials, and finishes are per AIA. Included in dimensions and descriptions are per AIA. Included in dimensions and descriptions are per AIA.



Foundation Plan
1/4" = 1'-0"

MINIMUM STEM WALL HT. = 1'-4" AS SHOWN ON WALL SECTIONS. IF STEM WALL EXCEEDS 6'-0" IN HT., THE ENGINEER OF RECORD MUST REVISION THE FOUNDATION PLAN TO DETERMINE IF MORE POURED CELLS ARE REQUIRED. IF STEM WALL EXCEEDS 5' COURSES, ALL CELLS INDICATED ON FOUNDATION PLAN MUST BE POURED FULL PRIOR TO BACKFILLING OF FOUNDATION.

- NOTES:**
- FOOTING DETAIL & POURED CELL W/ #5 FROM SLAB TO BOND BEAM. DETAILS: 40" x 10" LG. HOOK - MIN. EMBED. 5" INTO 8" FOOTINGS AND 6" IN ALL OTHERS. MIN. LAP & VERTICAL WALL REINFORCEMENT = 25"
 - FOUNDATION CONTRACTOR TO VERIFY LOCATIONS OF REINFORCEMENT NEAR OPENINGS (FLOOR/FOUNDATION PLANS)
 - ALL EXTERIOR WALLS ARE ENGINEERED AS SHEAR WALLS. SHEAR WALLS FOR SIDE & END WALLS CONFORM TO MIN. DESIGN REQUIREMENTS OF FBC 17th Ed. (2020) & PROVISIONS OF THE NATIONAL CONCRETE MASONRY ASSOC. SPECIFICATION AND ACI 530 (BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES)
 - FOUNDATION PLAN IS VALID AS SHOWN UNLESS ADDITIONAL REQUIREMENTS ARE INDICATED ON SOILS TEST REPORT NOT AVAILABLE TO ENGINEER OF RECORD PRIOR TO THIS DESIGN

4" THK. CONCRETE SLAB-ON GRADE (MIN. 2500PSF) W/ 6 x 6 MI. 4 x MI. 4 WIRE MESH OVER MIN. 6 MIL. VISQUEEN ON CLEAN, TREATED FILL, COMPACTED TO MIN. 2500PSF. (FIBER MESH OPT.) REBAR TO BE MIN. 60,000PSI RATED (BUILDER TO SPECIFY TYPE OF SOIL TREATMENT OR APPROVED SYSTEM)

FIELD ROUTE AHJ DRAIN

DROP SHOWER 4"

SLOPE

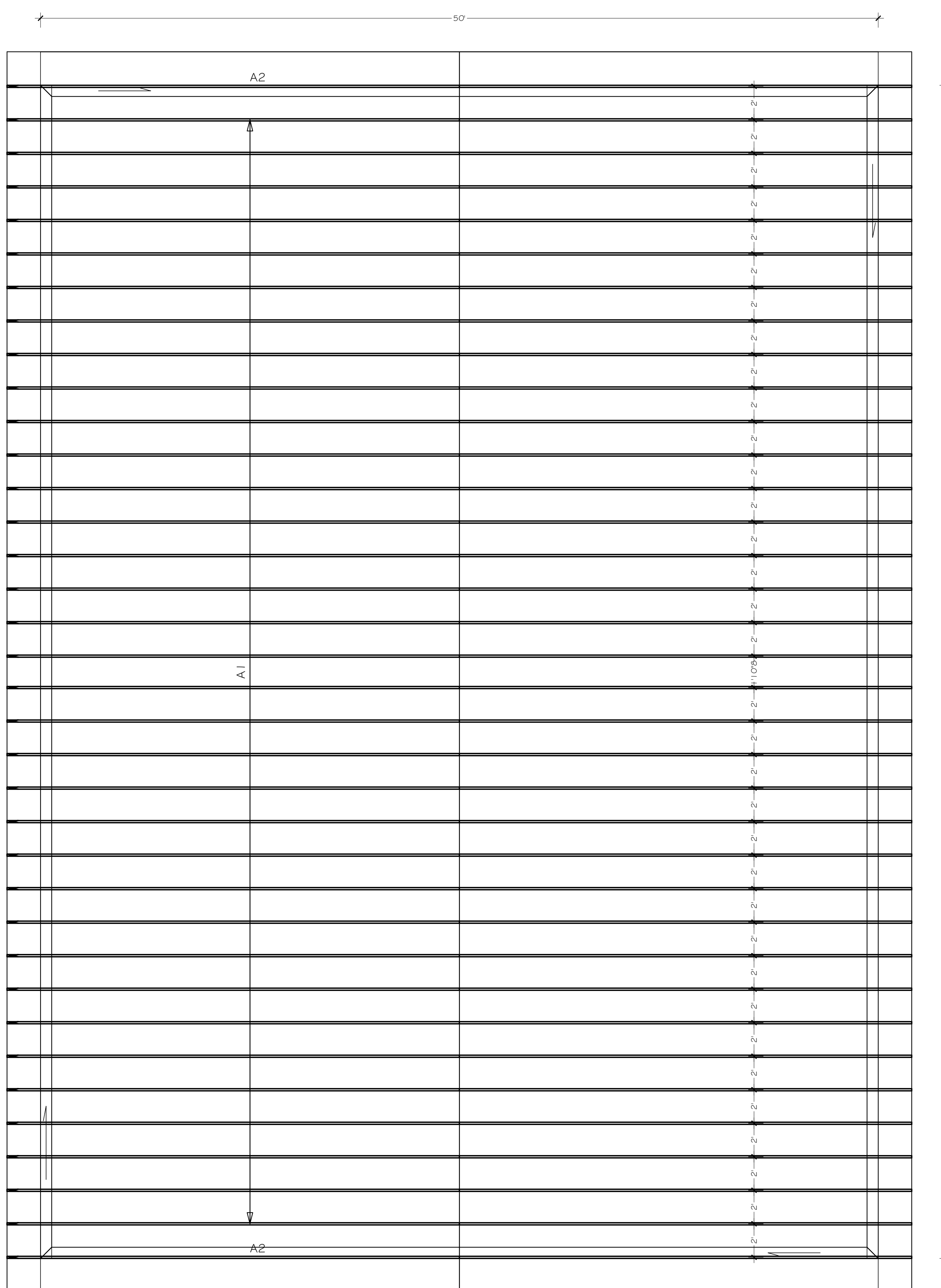
NOTE: FLUMBER TO VERIFY LOCATION OF FIXTURES

NOTE: FOUNDATION CONTRACTOR TO VERIFY PLACEMENT OF STEEL REINFORCEMENT CLEARS WINDOW OPENINGS (VERIFY W/FLOOR PLAN)

A FOUNDATION SURVEY SHALL BE PERFORMED AND A COPY OF THE SURVEY SHALL BE ON THE SITE FOR THE BUILDING INSPECTORS USE OR, ALL PROPERTY MARKERS SHALL BE EXPOSED AND A STRING ATTACHED FROM MARKER TO MARKER TO VERIFY REQUIRED SETBACKS.

ALL PLUMBING, ELECTRICAL AND MECHANICAL ROUGHING MUST BE COMPLETE, INSPECTED AND APPROVED BEFORE REQUESTING A FRAMING INSPECTION. (FBC 105.6)

10"x20" FOOTING W/ (2) #5s CONTINUOUS



PROGRESS TRUSS
ROOF PITCH = 4:12
ROOF OVERHANG = 16"
Truss Layout
1/4" = 1'-0"

- DESIGN LOADS:**
- Design conforms with Florida Bldg. Code 17th Edition (2020) (Building & Residential) Design Criteria for 140MPH Wind Forces Per ASCE/SEI 7-16 Minimum Design Loads For Buildings & Other Structures.
 - Wind: No. 2 Grade Southern Pine or Better
 - Risk Category II
 - MinFRS Chapters 26 Thru 29
 - Chap. 30, Components/Cladding (C4 C) Part I: Low Rise Building
Doors & Windows: 141 PSF
Garage Door: 18.5/20.4
 - Internal Pressure Coefficient: +0.18
 - Exposure 'B'
 - Residential Category R3

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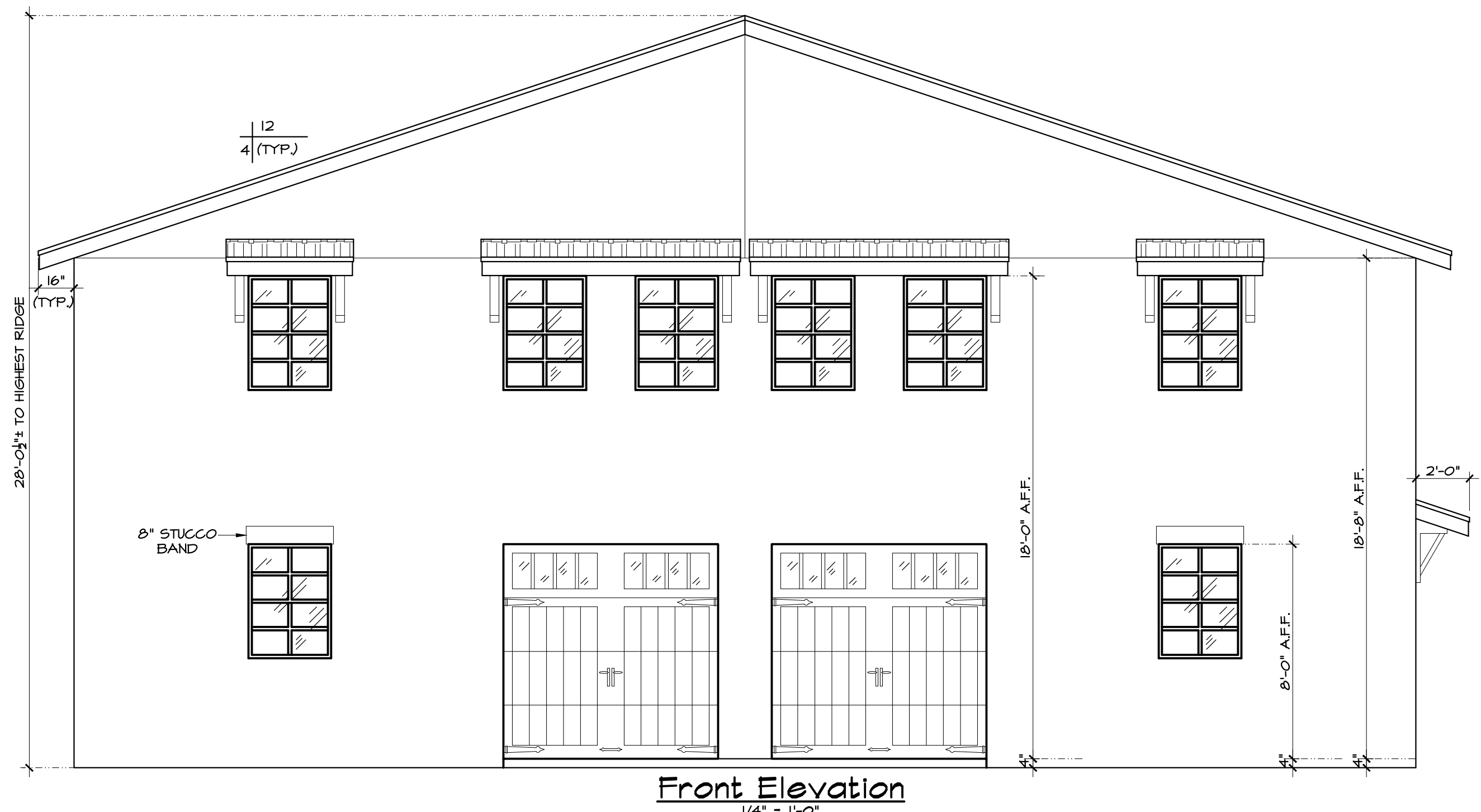
ENGINEER OF RECORD:
ARKAY ENGINEERING INC.
STRUCTURAL ENGINEERS
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PHONE: 888-999-8800 FAX: 813-484-4555
STATE OF FLORIDA CERT. OF AUTHORIZATION # EB6347
RICHARD L. KIDDEY, P.E. - FLORIDA LICENSE # 37196

A Barn Custom For:
The Barger Residence
Lot #2, Barger Estates, Lithia, FL
Foundation Plan

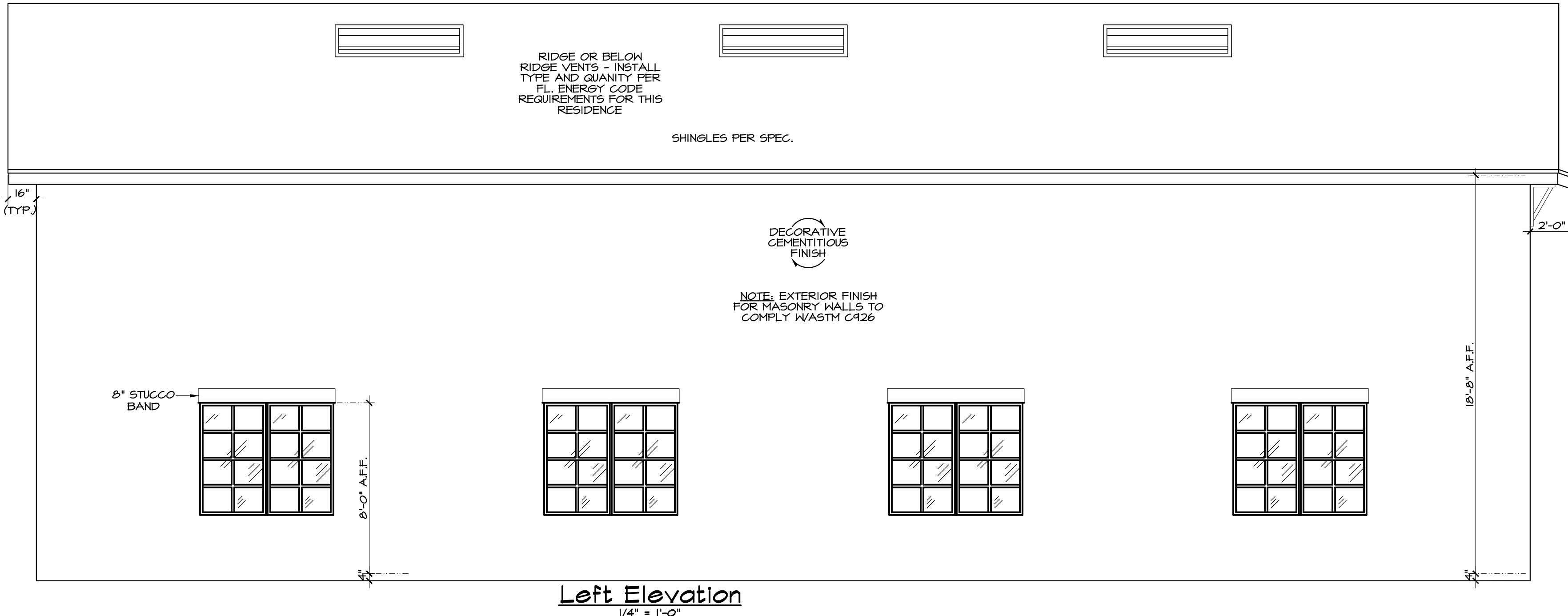
HULBERT HOMES, INC.
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| 21 MAY 2018 |
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| SHEET |
| 2 |
| OF 4 SHEETS |
| PAPER SIZE |
| 24"x36" |

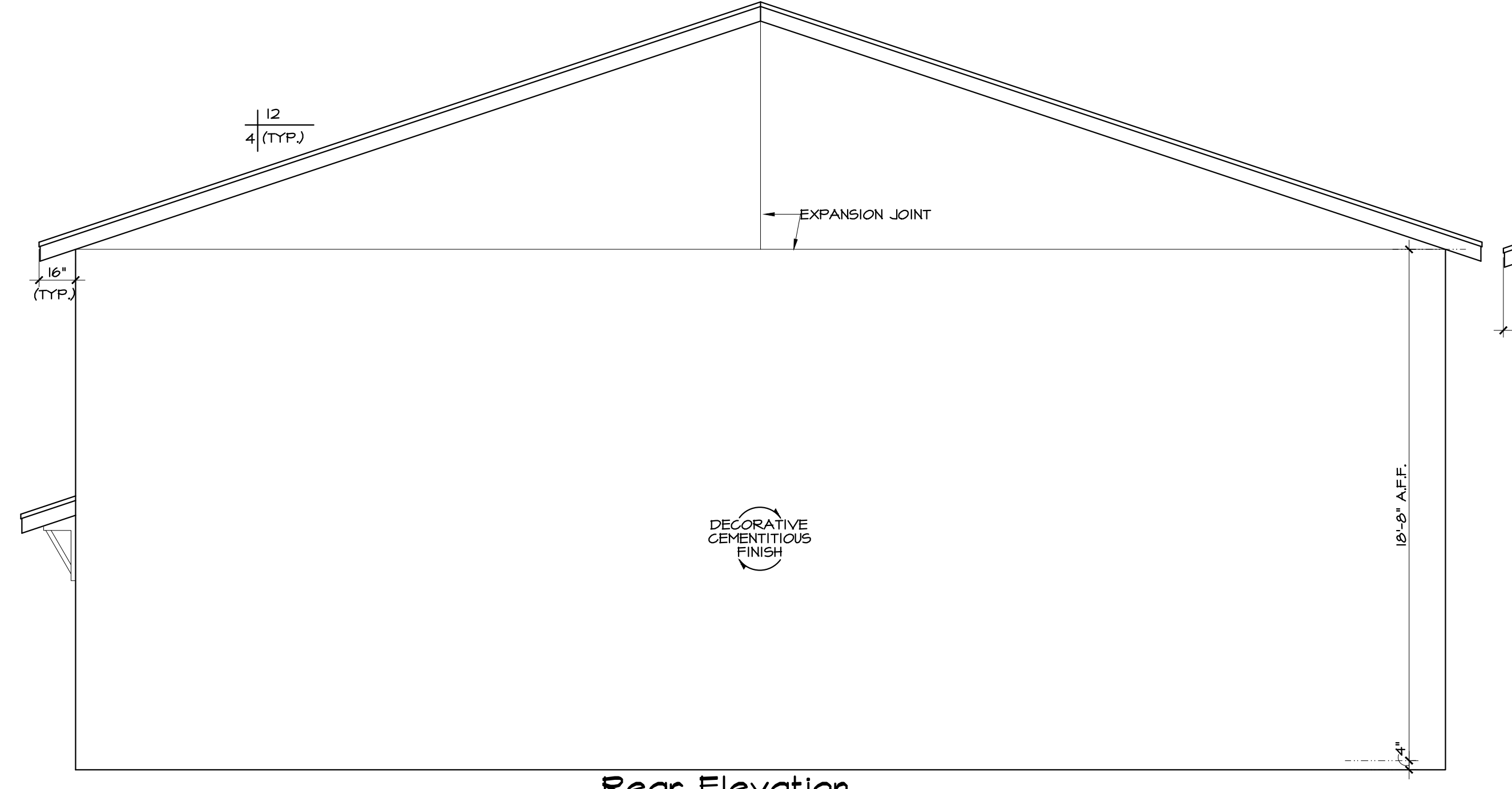
NOTE: DIMENSION SIZES ARE APPROXIMATE. Dimensions are from inside masonry and framing, rounded up to the nearest inch. Masonry walls = 8". Frame walls = 4". All other framing, drywall, insulation and accessories are 1/2" included in dimensions. Detail connections are per standard specifications.



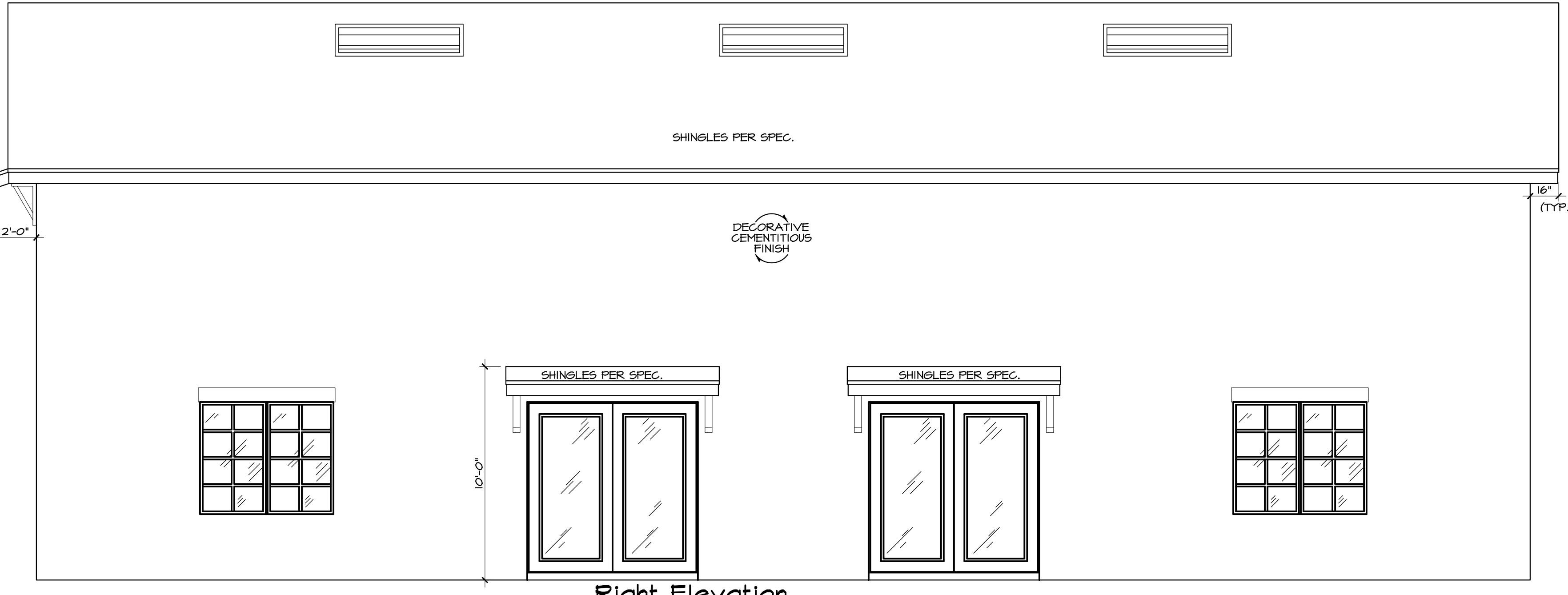
Front Elevation
1/4" = 1'-0"



Left Elevation
1/4" = 1'-0"



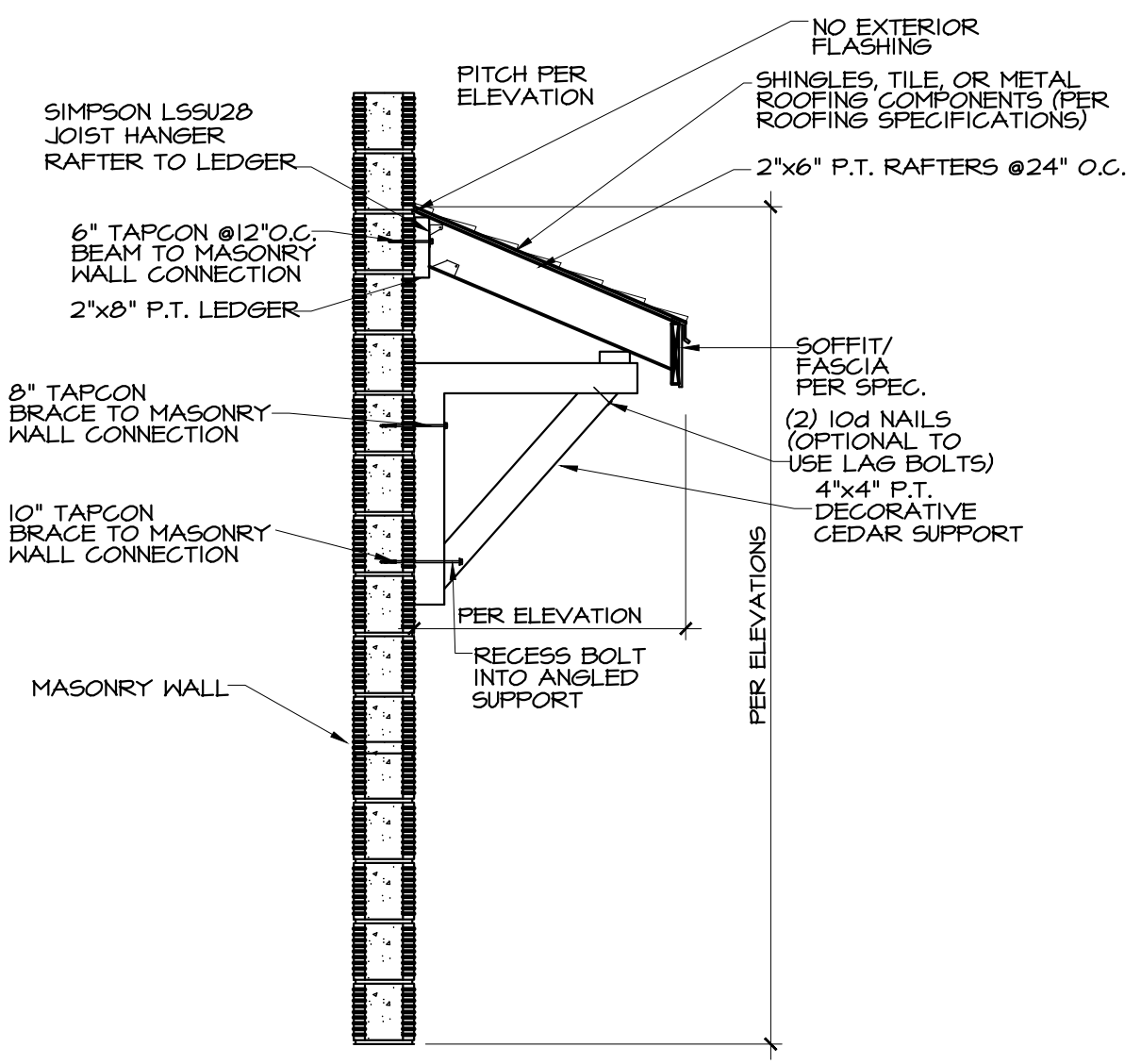
Rear Elevation
1/4" = 1'-0"



Right Elevation
1/4" = 1'-0"

EXTERIOR LATH, KEEP, & WATER RESISTIVE BARRIER NOTES:

1. EXTERIOR PLASTER: INSTALLATION OF THESE MATERIALS SHALL BE IN COMPLIANCE W/ ASTM C 926 & ASTM C 1063 & THEIR PROVISIONS OF THIS CODE.
2. LATH: ALL LATH & LATH ATTACHMENTS SHALL BE OF CORROSION-RESISTANT MATERIALS. EXPANDED METAL OR HEAVEN WIRE LATH SHALL BE ATTACHED W/ 1/2-INCH LONG (38 MM) #1 GAGE NAILS HAVING A 7/16-INCH (11.1MM) HEAD, OR 1/8-INCH LONG (22.2MM), 16 GAGE STAPLES, SPACED AT NO MORE THAN 6" (152 MM), OR AS OTHERWISE APPROVED.
3. PLASTER: PLASTERING WITH PORTLAND CEMENT PLASTER SHALL BE NOT LESS THAN 3 COATS WHEN APPLIED OVER METAL LATH OR WIRE LATH & SHALL BE NOT LESS THAN 2 COATS WHEN APPLIED OVER MASONRY, CONCRETE, PRESSURE-PRESERVATIVE TREATED WOOD OR DECAY-RESISTANT WOOD AS SPECIFIED IN SECTION R301.1 OR GYPSUM BACKING IF THE PLASTER SURFACE IS COMPLETELY COVERED BY VENEER OR OTHER FACING MATERIAL, OR IS COMPLETELY CONCEALED, PLASTER APPLICATION NEED BE ONLY 2 COATS, PROVIDED THE TOTAL THICKNESS IS AS SET FORTH IN TABLE R102.1(i). THE PROPORTION OF AGGREGATE TO CEMENTITIOUS MATERIALS SHALL BE AS SET FORTH IN TABLE.
4. KEEP SCREENS: A MIN. 0.019-INCH (0.5 MM) NO. 26 GALVANIZED SHEET GAGE), CORROSION-RESISTANT KEEP SCREED OR PLASTIC KEEP SCREED, WITH A MIN. VERTICAL ATTACHMENT FLANGE OF 3-1/2 INCHES (89 MM) SHALL BE PROVIDED AT OR BELOW FOUNDATION PLATE LINE ON EXTERIOR STUD WALLS IN ACCORDANCE W/ ASTM C 926. THE KEEP SCREED SHALL BE PLACED A MIN. OF 4 INCHES (102 MM) ABOVE THE EARTH OR 2 INCHES (51 MM) ABOVE PAVED AREAS & SHALL BE OF A TYPE OF THAT WILL ALLOW TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING. THE WEATHER-RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE. THE EXTERIOR LATH SHALL COVER & TERMINATE ON THE ATTACHMENT FLANGE OF THE KEEP SCREED.
5. WATER RESISTIVE BARRIERS: WATER RESISTIVE BARRIERS SHALL BE INSTALLED AS REQUIRED IN SECTION R1403.2 & WHERE APPLIED OVER WOOD-BASED SHEATHING, SHALL INCLUDE A WATER-RESISTIVE VAPOR-PERMEABLE BARRIER W/ A PERFORMANCE AT LEAST EQUIVALENT TO 2 LAYERS OF GRADE D PAPER. THE INDIVIDUAL LAYERS SHALL BE INSTALLED INDEPENDENTLY SUCH THAT EACH LAYER PROVIDES A SEPARATE CONTINUOUS PLANS & ANY FLASHING (INSTALLED IN ACCORDANCE W/ SECTION R103.2) INTENDED TO DRAIN TO THE WATER-RESISTIVE BARRIER IS DIRECTED BETWEEN THE LAYERS. EXCEPTION: WHERE THE WATER-RESISTIVE BARRIER THAT IS APPLIED OVER WOOD-BASED SHEATHING HAS A WATER RESISTANCE EQUAL TO OR GREATER THAN THAT OF 60-MINUTE GRADE D PAPER & IS SEPARATED FROM THE STUCCO BY AN INTERVENING, SUBSTANTIALLY NON-WATER-ABSORBING LAYER OR DESIGNED DRAINAGE SPACE.



Garage Roof Build-out
1/2" = 1'-0"

ATTIC SPACE VENTILATION CALCULATION:
 3,900 S.F. ATTIC AREA / 300 = 11.67 S.F. x 144 = 1,681 S.I.
 1,681 S.I. / 2 = 841 S.I. UPPER & LOWER VENTILATION REQUIRED
 UPPER VENTILATION PROVIDED
 13 LOMANGO T70 STATIC ROOF VENT @70 S.I. / EA = 910 > 841 S.I.
 LOWER VENTILATION PROVIDED
 132 FT. SOFFIT VENTS (MIN.) @6.42 S.I./FT = 841 > 841 S.I.

- DESIGN LOADS:**
1. Design conforms with Florida Bldg. Code 7th Edition (2020) (Building & Residential) Design Criteria for 140-MPH Wind Forces Per ASCE/SEI 7-16 Minimum Design Loads For Buildings & Other Structures
 2. Wood: No. 2 Grade Southern Pine Or Better
 3. Risk Category II
 4. MFRS Clapters 26 Thru 24
 5. Chap. 30: Components/Cladding (C & C) Part I: Low Rise Building
 Roofs & Windows 44 psf
 Garage Door +10.5/-20.9
 Internal Pressure Coefficient: + 0.10
 Exposure 'B'
 6. Residential Category R3

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ENGINEER OF RECORD:
ARKAY ENGINEERING INC.
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 STATE OF FLORIDA CERT. OF AUTHORIZATION # EB9347
 RICHARD L. KIDDEY, P.E. - FLORIDA LICENSE # 97246

A Barn Custom For:
The Barger Residence
 Lot #2, Barger Estates, Lithia, FL
Elevations

HULBERT HOMES, INC.
 PHONE: 863-647-5815
 FAX: 644-1125

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| PAPER SIZE |
| 24"x36" |

NOTE: DIMENSIONS ARE APPROXIMATE. Dimensions are from inside masonry and framing, rounded up to the nearest 1/8" (masonry walls = 8", frame walls = 4" inside), framing, ceiling, foundation and fasteners are not included in dimensions. Detail locations are not included in dimensions.

| REVISIONS | BY |
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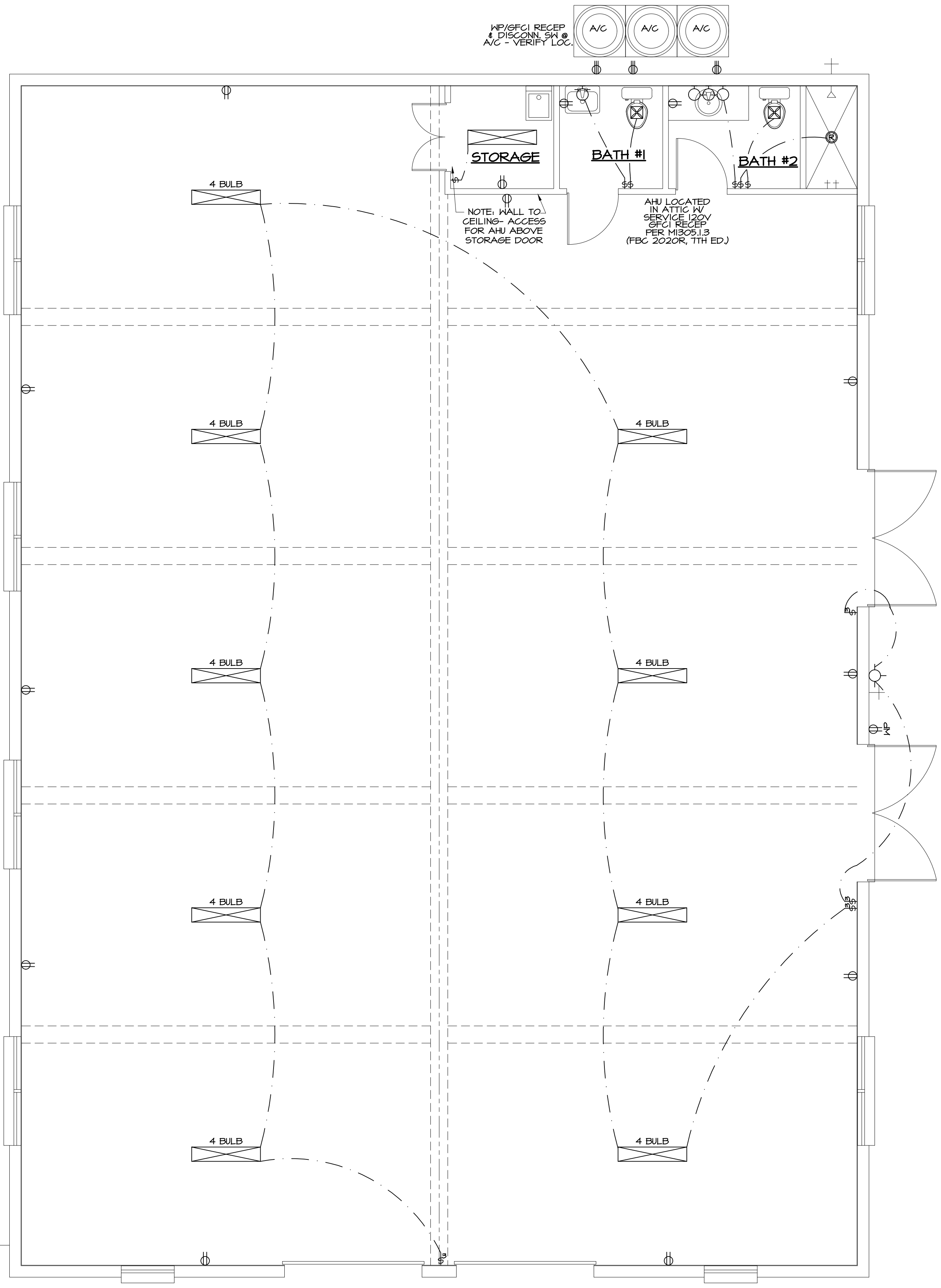
ENGINEER OF RECORD:
ARKAY ENGINEERING INC.
 STRUCTURAL ENGINEERS
 1100 E. EGGLESTON BLVD., SUITE 100, LITHIA, FL 33547
 PHONE: 863-647-5815 FAX: 863-647-5815
 STATE OF FLORIDA CERT. OF AUTHORIZATION # EB0347
 RICHARD L. KIDDEY, P.E. - FLORIDA LICENSE # 97296

A Barn Custom For:
The Barger Residence
 Lot #2, Barger Estates, Lithia, FL
Electrical Plan

Hulbert Homes, Inc.
 PHONE: 863-647-5815
 FAX: 644-1125

ARKAY #19632

| | |
|--------------|-------------|
| DRAWN BY | SDF |
| DATE CHECKED | 16 APR 2021 |
| DATE | 3 MAY 2018 |
| SCALE | AS NOTED |
| SHEET | 4 |
| OF 4 SHEETS | |
| PAPER SIZE | 24"x36" |



Electrical Plan
 1/4" = 1'-0"

| ELECTRICAL LEGEND | |
|-------------------|---------------------------|
| ⊕ | DUPLEX RECEPTACLE |
| ⊕⊕ | 220V RECEPTACLES |
| ⊕ | SPLIT-WIRED RECEPTACLE |
| ⊕WP | WEATHERPROOF RECEPT. |
| ⊕GFCI | GROUND FAULT INTERRUPT * |
| ⊕AFCI | ARC FAULT INTERRUPT * |
| ⊕ | SINGLE SWITCH |
| ⊕ ³ | THREE-WAY SWITCH |
| ⊕ | RECESSED CAN |
| ⊕ | EYEBALL SPOT |
| ⊕ | PENDANT HANGING LIGHT |
| ⊕ | ACCENT LIGHT |
| ⊕ | LED LIGHT |
| ⊕ | TELEVISION OUTLET |
| ⊕ | PHONE JACK |
| ⊕SD | SMOKE DETECTOR * |
| ⊕CMD | CARBON MONOXIDE DETECTOR* |
| ⊕ | COMBO SMOKE/CO DETECTOR* |
| ⊕ | LIGHT FIXTURE |
| ⊕ | DIMMER |
| ⊕ | VENT FAN |
| ⊕ | FLOODLIGHTS |
| ⊕ | FAN FAN/LIGHT/HEATLAMP |
| ⊕ | HEAT |
| ⊕ | VENTALITE |

ELECTRICAL NOTES (NEC2020):
 1. SMOKE/CO DETECTORS TO BE HARD WIRED & INTERCONNECTED W/ BATTERY BACKUPS. *
 2. CO DETECTORS (CMD) TO BE PROVIDED @ GARAGE ENTRY DOORS ON RESIDENCE SIDE *
 3. AFCI CIRCUITS: ALL CIRCUITS EXCEPT GFCI PROTECTED TO BE AFCI PROTECTED *
 W/ TAMPER PROOF RECEPTACLES (PER NEC 2017)
 4. GFCI PROTECTED CIRCUITS: ALL GARAGE, KITCHEN, BATH, LAUNDRY & EXTERIOR RECEPTS *
 5. PROVIDE GFCI RECEPTACLE @ AHU FOR SERVICE TECHNICIAN
 6. PROVIDE GFCI RECEPTACLE & DISCONNECT SWITCH @ A/C CONDENSER
 * ALL LED BULBS WHEN POSSIBLE *

- DESIGN LOADS:**
- Design conforms with Florida Bldg. Code 11th Edition (2020) (Building & Residential) Design Criteria for 140MPH Wind Forces Per ASCE/SEI 7-16 Minimum Design Loads for Buildings & Other Structures;
 - Wood: No. 2 Grade Southern Pine Or Better
 - Risk Category II
 - MFRRS Chapters 26 Thru 29
 - Chap. 30: Components/Cladding (C1 C) Part 1: Low Rise Building
 Doors & Windows: 447 psf
 Garage Door: +18.5/-20.9
 Internal Pressure Coefficient: ± 0.18
 - Exposure 'B'
 - Residential Category R3

| AREAS: | |
|--------|-------|
| BARN | 3,500 |
| TOTAL: | 3,500 |

NOTE: DIMENSIONS ARE APPROXIMATE. Dimensions are from inside masonry and framing, rounded up to the nearest inch. Masonry walls = 8". Frame walls = 4". All wall, ceiling, flooring, and baseboards are as indicated in dimensions. All wall, ceiling, and baseboards are as indicated in dimensions.

GENERAL NOTES:

THIS BUILDING HAS BEEN DESIGNED TO CONFORM TO THE 2020 FLORIDA BUILDING CODE 7TH EDITION AND THE 2020 FLORIDA BUILDING CODE - RESIDENTIAL 7TH EDITION.

ARKAY ENGINEERING, INC.: A REGISTERED, LICENSED, FLORIDA PROFESSIONAL STRUCTURAL ENGINEERING COMPANY, HAS APPLIED "RATIONAL ANALYSIS" FOR THE STRUCTURAL DESIGN OF THIS STRUCTURE.

THE BUILDING (INCLUDING ALL COMPONENTS AND CLADDINGS) SHALL BE DESIGNED FOR THE FOLLOWING SUPERIMPOSED LOADS:

FLOORS:
LIVE LOAD - 40 P.S.F.
DEAD LOAD - 10 P.S.F.

ROOF:
LIVE LOAD (TRUSS TOP CHORD) - 20 P.S.F.
DEAD LOAD (TRUSS TOP CHORD) - 10 P.S.F. (15 P.S.F. WHEN TILE ROOFING IS INSTALLED)
LIVE LOAD (TRUSS BOTTOM CHORD) - 10 P.S.F.
DEAD LOAD (TRUSS BOTTOM CHORD) - 10 P.S.F.
ASSUMED TRUSS SELF WEIGHT (DEAD LOAD) = 7 P.S.F.

WIND:
BUILDING IS DESIGNED TO CONFORM TO ASCE 7-16, CHAPTERS 26 THRU 31 PER 2020 FLORIDA BUILDING CODE, RESIDENTIAL - SECTION R302.1.1 AND 2020 FLORIDA BUILDING CODE (7TH EDITION) SECTION 609.1.1.

WIND DESIGN ASSUMPTIONS:
BUILDING EXPOSURE - D
BUILDING RISK CATEGORY - II
MEAN ROOF HEIGHT 30' OR LESS
HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENT = 1.0
ENCLOSED BUILDING
INTERNAL PRESSURE COEFFICIENT = +/- 0.18
WIND SPEED SHOWN AT THE BOTTOM RIGHT CORNER OF THIS SHEET

| COMPONENT & CLADDING WIND LOADS | | |
|---------------------------------|---------------------|---------------------------|
| BUILDING ZONE | ROOF OVERHANG LOADS | ALL OTHER COMPONENT LOADS |
| 1 | N/A | +32.3/-35.3 |
| 2 | -65.7 | +32.3/-56.2 |
| 3 | -10.6 | +32.3/-89.0 |
| 4 | N/A | +35.3/-38.2 |
| 5 | N/A | +35.3/-47.2 |

ALL STRUCTURAL ELEMENTS, EXTERIOR WALLS AND INTERIOR WALLS SHALL BE TYPE V CONSTRUCTION PER FBC 602.5

SOIL BEARING & COMPACTION:

THESE PLANS WERE DRAWN BASED UPON AN ALLOWABLE SOIL BEARING CAPACITY OF 2,000 P.S.F. (MINIMUM). THE CONTRACTOR/PROSPECT OWNER HAS RESPONSIBILITY FOR VERIFYING THAT THE SOIL ON THE SITE IS PROPERLY PREPARED & COMPACTED SUCH THAT IT CAN SUPPORT A 2,000 P.S.F. FOUNDATION LOADING.

ARKAY ENGINEERING, INC.: A REGISTERED, LICENSED, FLORIDA PROFESSIONAL STRUCTURAL ENGINEERING COMPANY, DESIGNED THESE FOUNDATIONS WITHOUT VISITING THE CONSTRUCTION SITE NOR PERFORMING ANY SOIL TESTING.

ARKAY ENGINEERING, INC. SHALL NOT BE RESPONSIBLE FOR THE SITE SOILS ABILITY TO SUPPORT THE BUILDING LOADS.

FOUNDATIONS & SLAB-ON-GRADE:

BUILDING SITE SHALL BE SCARPED TO REMOVE ALL ORGANIC MATERIALS WITHIN THE BUILDING AREA.

ANY ADDITIONAL FILL PLACED ON THE BUILDING PAD AREA SHALL BE COMPACTED SUCH THAT IT CAN ADEQUATELY SUPPORT A 2,000 P.S.F. FOUNDATION LOADING.

SLAB SHALL BE PLACED OVER A 6 MIL. VAPOR BARRIER ON CLEAN, ABSOLUTELY COMPACTED AND TERMITES POISONED SOIL.

CONCRETE UTILIZED IN THE FOUNDATIONS AND SLABS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 P.S.I.

REINFORCING STEEL SHALL BE GRADE 40 MINIMUM AND IDENTIFIED IN ACCORDANCE WITH ASTM A-65. LAP SPLICES, WHERE REQUIRED, SHALL BE A MINIMUM OF 25" FOR #5 REBAR, 30" FOR #6 REBAR & 35" FOR #7 REBAR.

PLANS ARE ENGINEERED FOR A MAXIMUM STEINWALL HEIGHT OF 4 COURSES (AFTER FINAL SITE GRADING). THE CONTRACTOR OR BUILDING OWNER SHALL DETERMINE THE EXACT STEINWALL HEIGHT BASED UPON SITE CONDITIONS PRIOR TO POURING THE FOUNDATION AND CONTACT ARKAY ENGINEERING WHEN MORE THAN 4 COURSES ARE REQUIRED.

A FOUNDATION SURVEY SHALL BE PERFORMED AND A COPY OF THE SURVEY SHALL BE ON THE SITE FOR THE BUILDING INSPECTORS USE, OR ALL PROPERTY MARKERS SHALL BE EXPOSED AND A STRING STRETCHED FROM MARKER TO MARKER TO VERIFY THE REQUIRED BUILDING SPACES.

MASONRY WALLS:

CONCRETE MASONRY UNITS SHALL BE HOLLOW UNIT MASONRY IN ACCORDANCE WITH ASTM C-90 AND SHALL HAVE A MINIMUM FM OF 1,500 P.S.I.

MORTAR SHALL CONFORM TO ASTM C-270 AND SHALL BE EITHER TYPE M OR S.

REINFORCING STEEL SHALL BE GRADE 40 MINIMUM AND IDENTIFIED IN ACCORDANCE WITH ASTM A-65. LAP SPLICES, WHERE REQUIRED, SHALL BE A MINIMUM OF 25" FOR #5 REBAR, 30" FOR #6 REBAR & 35" FOR #7 REBAR.

GROUT FOR THE POURED CELLS AND LINTELS SHALL HAVE A MAXIMUM COURSE AGGREGATE SIZE OF 3/8". PLACED AT AN 8" TO 12" INCH SLUMP AND HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2,500 P.S.I. (WHEN TESTED PER ASTM C-109).

PROVIDE CLEAN-OUT OPENINGS (2 SQ. IN.) IN CELLS CONTAINING SPLICED REINFORCEMENT, WHEN THE GROUT POUR EXCEEDS 5 FEET IN HEIGHT.

TIMBER MATERIALS:

ALL TIMBER MATERIALS SHALL BE AS FOLLOWS:

LVL BEAMS SHALL BE (198) MICRO LVL MATERIALS MANUFACTURED BY TRUSSJOIST MACMILLAN (OR EQUAL).

LUMBER UTILIZED IN BOTTOM PLATES, TOP PLATES, POSTS, STUD PACKS AND BEAMS SHALL BE #2 YELLOW PINE (OR BETTER).

EXTERIOR AND INTERIOR LOAD BEARING STUDS SHALL BE #2 SPRUCE (OR BETTER).

ALL OTHER STUDS SHALL BE "STD" GRADE SPRUCE.

PSL POSTS SHALL BE (186) PARALLEL PSL MATERIALS MANUFACTURED BY TRUSSJOIST MACMILLAN (OR EQUAL). SEE "POST SUPPORT TABLE" ON THIS SHEET FOR LOAD VALUES.

EXTERIOR WALLS SHALL BE CONSTRUCTED WITH 1/2" PLYWOOD OR 7/16" O.S.B. (2-M-W RATING) NAILED WITH 8D NAILS SPACED AT 3" O.C. ALONG ALL HORIZONTAL JOINTS & EDGES 6" O.C. ALONG ALL VERTICAL JOINTS & EDGES AND 12" O.C. ALONG ALL INTERMEDIATE STUDS.

AT OPENINGS 5'-0" WIDE OR LARGER, STRAP HEADER BEAM TO THE HEADER STUDS WITH (2) USP OR SIMPSON "LSTA21" STRAP TIES AT EACH END OF HEADER BEAM. ANCHOR BOTTOM OF HEADER STUDS TO FOUNDATION WITH A USP OR SIMPSON "HT16" TENSION TIE.

ANCHOR WOOD SHEARWALL SEGMENTS TO FOUNDATION WITH A USP OR SIMPSON "HT16" TENSION TIE AT EACH END OF WALL SEGMENTS AND AT ANY WALL SEGMENT INTERSECTIONS (BUILDING CORNERS).

ANCHOR TRUSSES AS FOLLOWS:
ROOF UPLIFTS OF 455# AND LESS USE (1) USP "RT3" OR SIMPSON "H3" HURRICANE TIE.
FOR UPLIFTS FROM 456# UP TO 910# USE (2) USP "RT3" OR SIMPSON "H3" HURRICANE TIES.
UPLIFTS FROM 911# UP TO 1450# USE A USP "HT20" OR SIMPSON "HT20" TWIST STRAP.

ALL PLUMBING, ELECTRICAL AND MECHANICAL ROUGH-INS MUST BE COMPLETE, INSPECTED AND APPROVED PRIOR TO REQUESTING THE FRAMING INSPECTION.

IF DESIRED, EQUIVALENT CONNECTORS MADE BY ANOTHER SUPPLIER MAY BE USED IN PLACE OF THE "USP" OR "SIMPSON" CONNECTORS SHOWN.

SOIL TERMITE TREATMENT:

TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING PESTICIDES APPLIED TO SOIL, OR WOOD BAITING SYSTEMS, OR OTHER APPROVED PROTECTION LABELED FOR USE AS A PREVENTATIVE TREATMENT TO NEW CONSTRUCTION.

A "CERTIFICATE OF COMPLIANCE" SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A "CERTIFICATE OF OCCUPANCY" WILL BE ISSUED. THE CERTIFICATE SHALL STATE:

"THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES."

IF A REGISTERED TERMITICIDE BAIT SYSTEM IS TO BE USED FOR SUBTERRANEAN TERMITES PREVENTION, SECTIONS R302.1.1 THROUGH R302.1.6 DO NOT APPLY. A SIGNED FIVE YEAR CONTRACT FROM THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY ASSURING INSTALLATION, MAINTENANCE AND MONITORING OF THE BAITING SYSTEM SHALL BE PROVIDED TO THE BUILDING DEPARTMENT PRIOR TO THE SLAB POUR. THE SYSTEM MUST BE INSTALLED PRIOR TO FINAL BUILDING APPROVAL.

INITIAL SOIL POISONING TREATMENT SHALL BE DONE AFTER ALL EXCAVATION BACKFILLING & COMPACTION ARE COMPLETE.

ANY SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RE-TREATED (INCLUDING ANY BOXED OR FORMED AREAS).

BOXED AREAS IN THE CONCRETE SLAB FOR INSTALLATION OF TRAPS SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF AN ADEQUATE SIZE & DEPTH TO ELIMINATE ANY DISTURBANCE OF THE SOIL AFTER THE INITIAL TREATMENT.

ANY CONCRETE OVERLAP, MORTAR OR STUCCO MATERIALS ALONG THE FOUNDATION PERIMETER MUST BE REMOVED PRIOR TO EXTERIOR SOIL TREATMENT.

EXTERIOR SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 12 INCHES OF THE STRUCTURE SIDE WALLS.

AN EXTERIOR VERTICAL CHEMICAL BARRIER SHALL BE INSTALLED AFTER CONSTRUCTION IS COMPLETE (INCLUDING LANDSCAPING AND IRRIGATION). ANY SOILS DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RE-TREATED.

CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 12 INCHES AWAY FROM THE BUILDING SIDEWALLS.

AFTER ALL WORK IS COMPLETED, ANY LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 12 INCHES OF THE BUILDING. THIS SHALL INCLUDE ALL GRADE STAKES, TIE TRAP BOXES, FORMS, SHAKES AND ANY OTHER CELLULOSE OR CONTAINING MATERIALS.

THE DISTANCE FROM THE EXTERIOR WALL COVERING (EXCEPTIONS PAINT AND DECORATIVE CEMENTITIOUS FINISHES LESS THAN 5/8" INCH THICK, APPLIED DIRECTLY ONTO THE FOUNDATION WALL) AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6 INCHES TO ALLOW FOR INSPECTION FOR FUTURE TERMITES INVESTIGATIONS.

TRUSSES:

IF THE CONTRACTOR, TRUSS MANUFACTURER OR ANY OTHER DESIGN PROFESSIONALS REVISE THE TRUSS SYSTEM LAYOUT FROM THOSE SHOWN ON THESE PLANS, ARKAY ENGINEERING, INC. IS REQUIRED TO REVIEW ALL FINAL CONSTRUCTION DOCUMENTS FOR COMPLIANCE WITH THE DESIGN INTENT PRIOR TO COMMENCEMENT OF THE PROJECT.

EXTERIOR WINDOWS & DOOR ASSEMBLIES:

ALL EXTERIOR WINDOW & GLASS DOORS SHALL BE TESTED IN ACCORDANCE WITH ANSI/AMMA/AMWA 10/152 STANDARDS AND BEAR AN AMMA OR WMA LABEL IDENTIFYING THE MANUFACTURER, PERFORMANCE CHARACTERISTICS AND APPROVED PRODUCT TESTING ENTITY.

ALL WALLS AND WINDOW DOOR/WINDOW ASSEMBLIES SHALL BE TESTED OR ENGINEERED TO TRANSFER 15 TIMES THE DESIGN LOADS TO THE ROUGH OPENING SUBSTRATE.

INSTALL ALL WINDOW & DOOR ASSEMBLIES PER THE MANUFACTURER'S ANCHORING RECOMMENDATIONS TO ACHIEVE THE DESIGN PRESSURES SPECIFIED.

ELECTRICAL, PLUMBING & MECHANICAL:

IN ACCORDANCE WITH CHAPTER 410.00(2)(1) OF THE FLORIDA ADMINISTRATIVE CODE, ELECTRICAL, PLUMBING AND MECHANICAL SYSTEMS SHALL BE DESIGNED BY THE RESPECTIVE CONTRACTORS TO MEET ALL APPLICABLE CODES. THE ELECTRICAL, PLUMBING AND MECHANICAL SYSTEMS DRAWN HEREON ARE BASED UPON A DESIGN PROVIDED BY THE OWNER TO ADDRESS THE HIS/HER REQUIREMENTS.

ALL ELECTRICAL OUTLETS IN BATHROOMS, KITCHEN (WITHIN 6 FEET OF SINKS), GARAGE AND AT EXTERIOR LOCATIONS SHALL BE WIRED INTO AN ARC-FAULT INTERRUPTER "GFI" CIRCUIT.

ALL ELECTRICAL OUTLETS IN BEDROOMS SHALL BE WIRED INTO AN ARC-FAULT INTERRUPTER "AFCI" CIRCUIT.

SAFETY GLAZING:

THE FOLLOWING SHALL BE CONSIDERED SPECIFIC HAZARDOUS LOCATIONS FOR THE PURPOSES OF GLAZING PER THE FLORIDA BUILDING CODE, RESIDENTIAL - SECTION R308:

- GLAZING IN SWINGING DOORS, FIXED AND SLIDING PANELS OF SLIDING DOOR ASSEMBLIES.
- GLAZING IN DOORS AND ENCLOSURES FOR HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHUBS AND SHOWERS. GLAZING IN ANY PORTION OF A BUILDING WALL ENCLOSED THESE COMPARTMENTS WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE DRAIN INLET.
- GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24 INCH RADIUS OF THE DOOR IN A CLOSED POSITION AND WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FINISHED FLOOR OR WALKING SURFACE.
- GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL, OTHER THAN THOSE LOCATIONS DESCRIBED IN ITEMS (2) AND (3) ABOVE, THAT MEETS ALL OF THE FOLLOWING CONDITIONS:
 - EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 SQ. FT.
 - BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR.
 - TOP EDGE GREATER THAN 36 INCHES ABOVE THE FLOOR.
 - ONE OR MORE WALKING SURFACES WITHIN 36 INCHES HORIZONTALLY OF THE PLANE OF THE GLAZING.

REFER TO THE FLORIDA BUILDING CODE, RESIDENTIAL - SECTION R308 FOR ADDITIONAL AREAS THAT MAY BE CONSIDERED A HAZARDOUS LOCATION FOR THE PURPOSE OF GLAZING.

DRAFT-STOPPING:

IN SINGLE FAMILY DWELLINGS, DRAFT-STOPPING SHALL BE PROVIDED (PARALLEL TO THE MAIN FRAMING MEMBERS) IN FLOOR/CEILING ASSEMBLIES SEPARATING USABLE SPACES. DRAFT-STOPPING SHALL BE CONSTRUCTION EQUIPMENT IS LOCATED IN THE ATTIC. IT SHALL BE INSTALLED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, RESIDENTIAL - SECTION M305.1.3

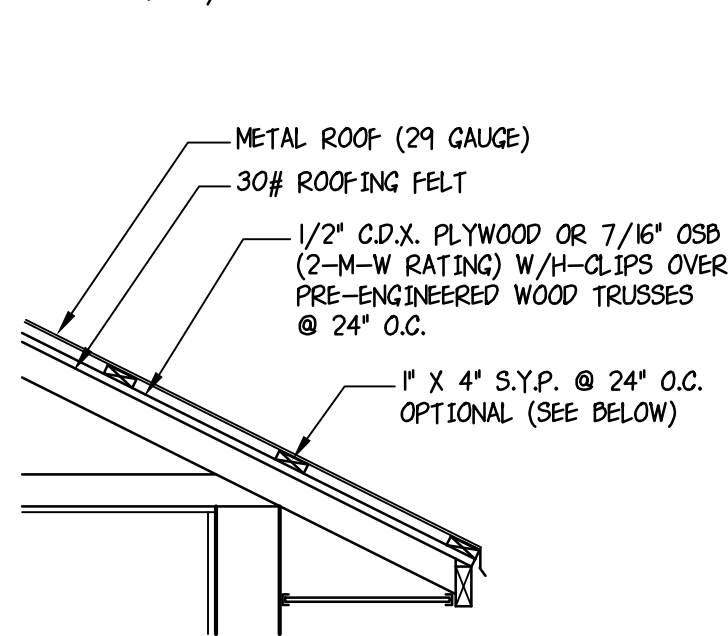
ATTIC ACCESS:

ATTIC ACCESS SHALL BE PROVIDED TO ATTIC AREAS EXCEEDING 30 SQ. FT. AND HAVING MINIMUM 30 INCHES OF VERTICAL HEIGHT. ROUGH-FRAME OPENING NOT TO BE LESS THAN 22 X 30 INCHES. WHEN MECHANICAL EQUIPMENT IS LOCATED IN THE ATTIC, IT SHALL BE INSTALLED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, RESIDENTIAL - SECTION M305.1.3

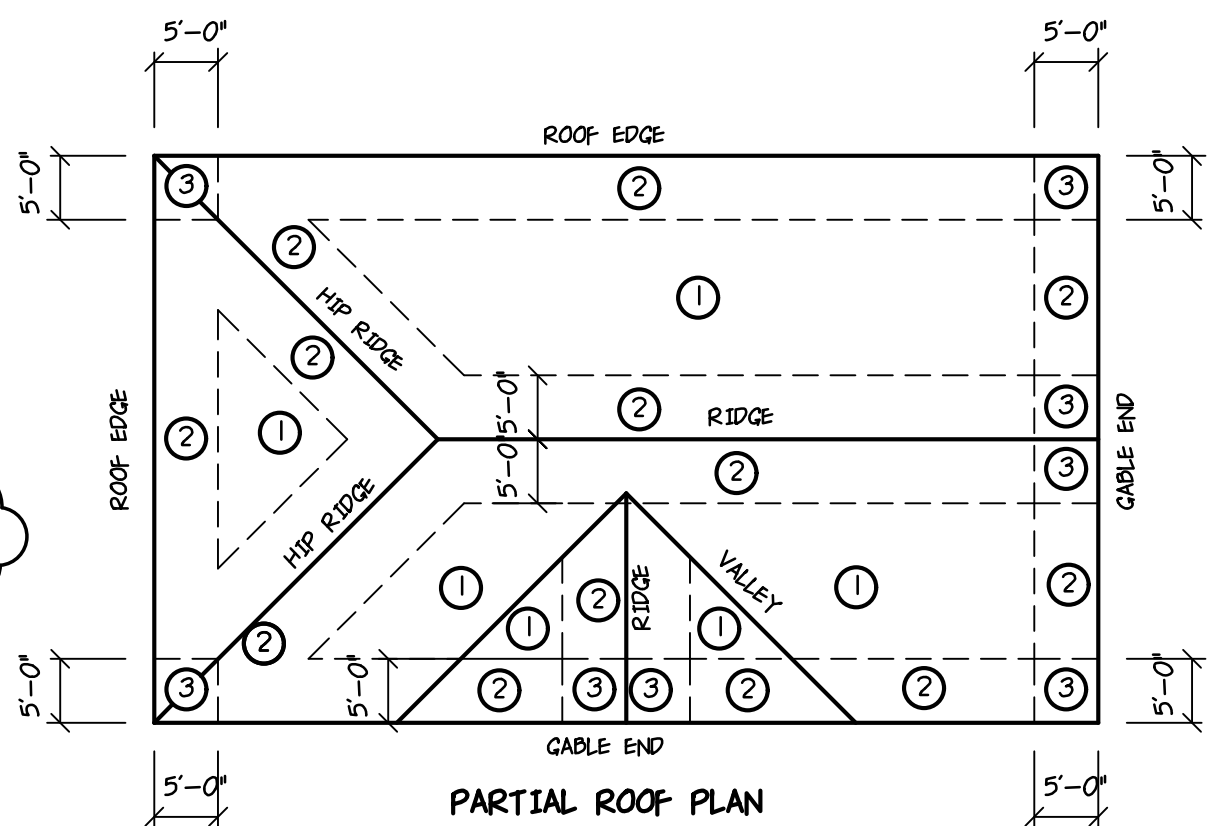
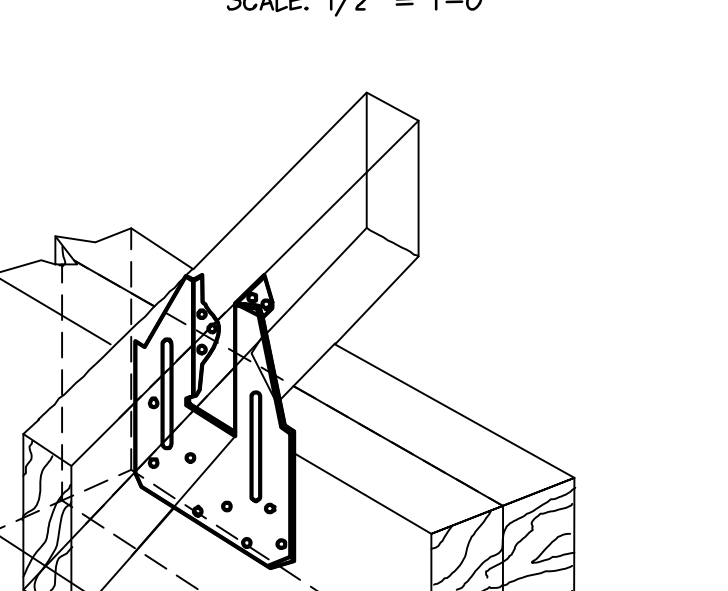
GARAGE:

NO OPENINGS SHALL BE PERMITTED FROM A GARAGE INTO A SLEEPING ROOM. OTHER OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL HAVE A DOOR (MIN. 1 3/8" THICK), OF SOLID WOOD, SOLID OR HONEYCOMB CORE STEEL, OR 20-MINUTE FIRE-RATED WALLS SEPARATING THE GARAGE AND RESIDENCE SHALL HAVE MIN. 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. THE CEILING SHALL HAVE MIN. 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED BY ALL HABITABLE ROOMS ABOVE WITH MIN. 5/8" TYPE-X GYPSUM BOARD.

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



METAL ROOF OPTION
SCALE: 1/2" = 1'-0"



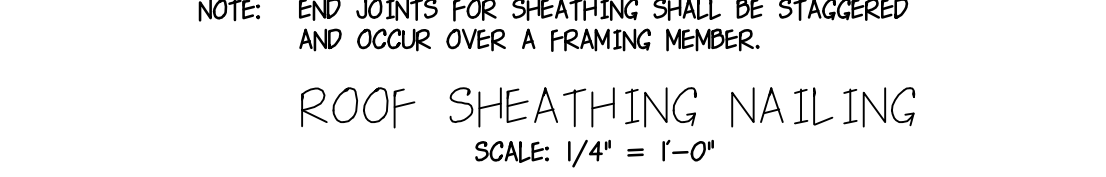
PARTIAL ROOF PLAN

ZONE 1: 8D RING SHANK NAILS AT 6" O.C. AT EDGES
8D RING SHANK NAILS AT 6" O.C. INTERMEDIATE

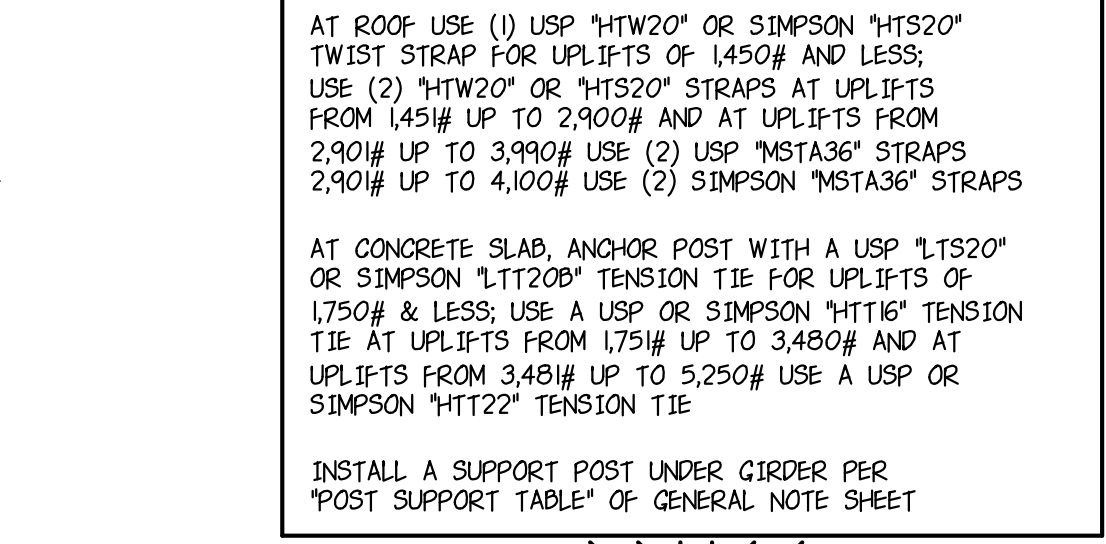
ZONE 2: 8D RING SHANK NAILS AT 6" O.C., 4" O.C. AT ROOF EDGES, RIDGE LINE, OR GABLE ENDWALL

NOTE: END JOINTS FOR SHEATHING SHALL BE STAGGERED AND OCCUR OVER A FRAMING MEMBER.

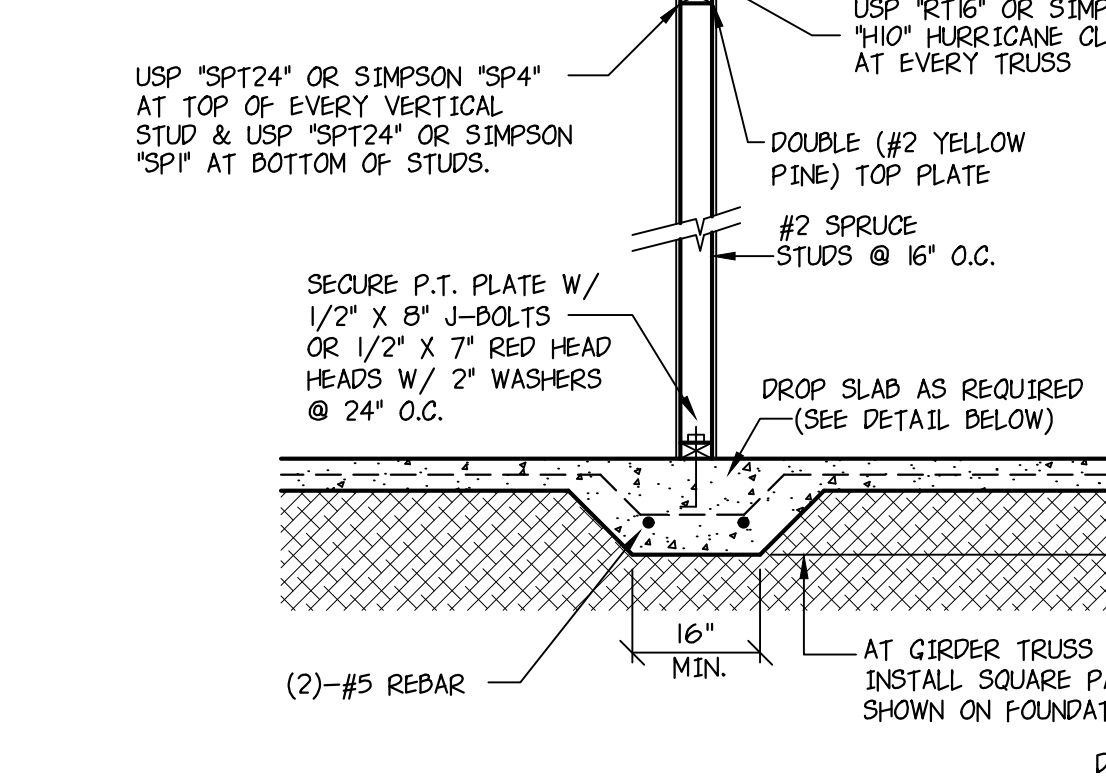
ROOF SHEATHING NAILING
SCALE: 1/4" = 1'-0"



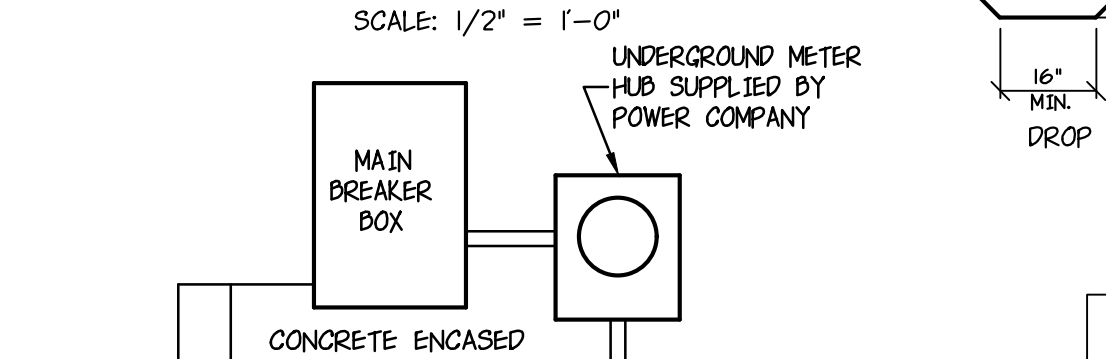
GIRDER TRUSS ANCHORING:



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



TRUSS TO BEAM DETAIL



ELECTRIC RISER
NOT TO SCALE

| PRODUCT CODE | DESCRIPTION | FASTENERS | DESIGN LOADS (LBS.) | |
|-----------------|--------------|-----------|---------------------|--------|
| | | | RANKING | UPLIFT |
| USP "P0M44" | POST CAP 4X4 | 20-8D | N/A | 570 |
| SIMPSON "P0M44" | POST CAP 4X4 | 20-8D | N/A | 470 |

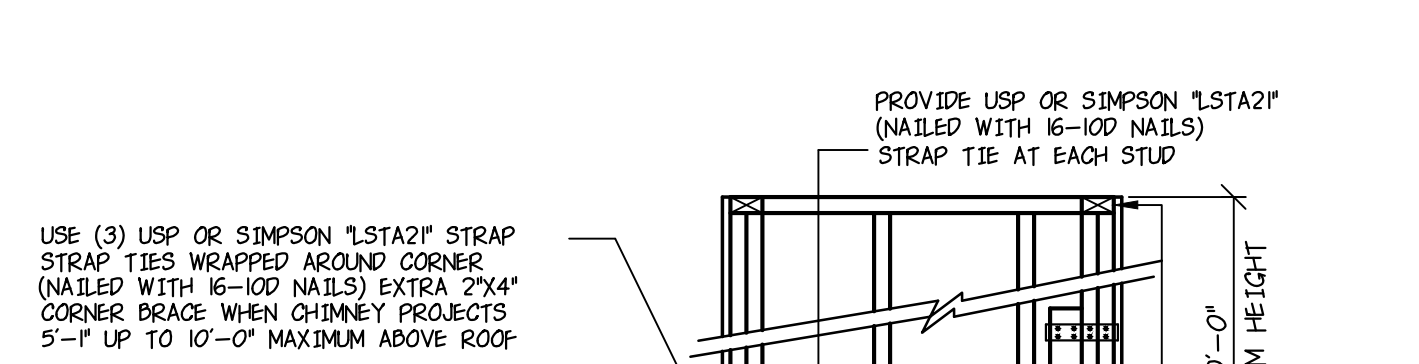
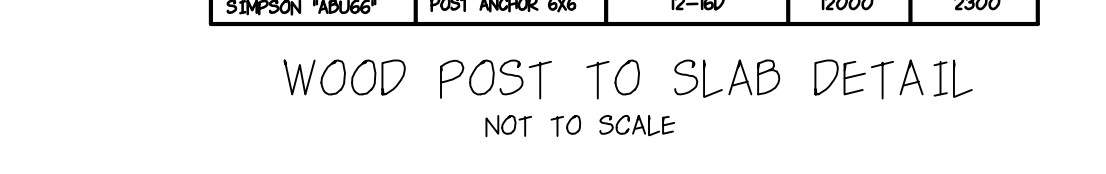
| PRODUCT CODE | DESCRIPTION | FASTENERS | DESIGN LOADS (LBS.) | |
|-----------------|--------------|-----------|---------------------|--------|
| | | | RANKING | UPLIFT |
| USP "P0M66" | POST CAP 6X6 | 20-8D | N/A | 905 |
| SIMPSON "P0M66" | POST CAP 6X6 | 20-8D | N/A | 470 |

BEAM TO POST DETAIL
NOT TO SCALE

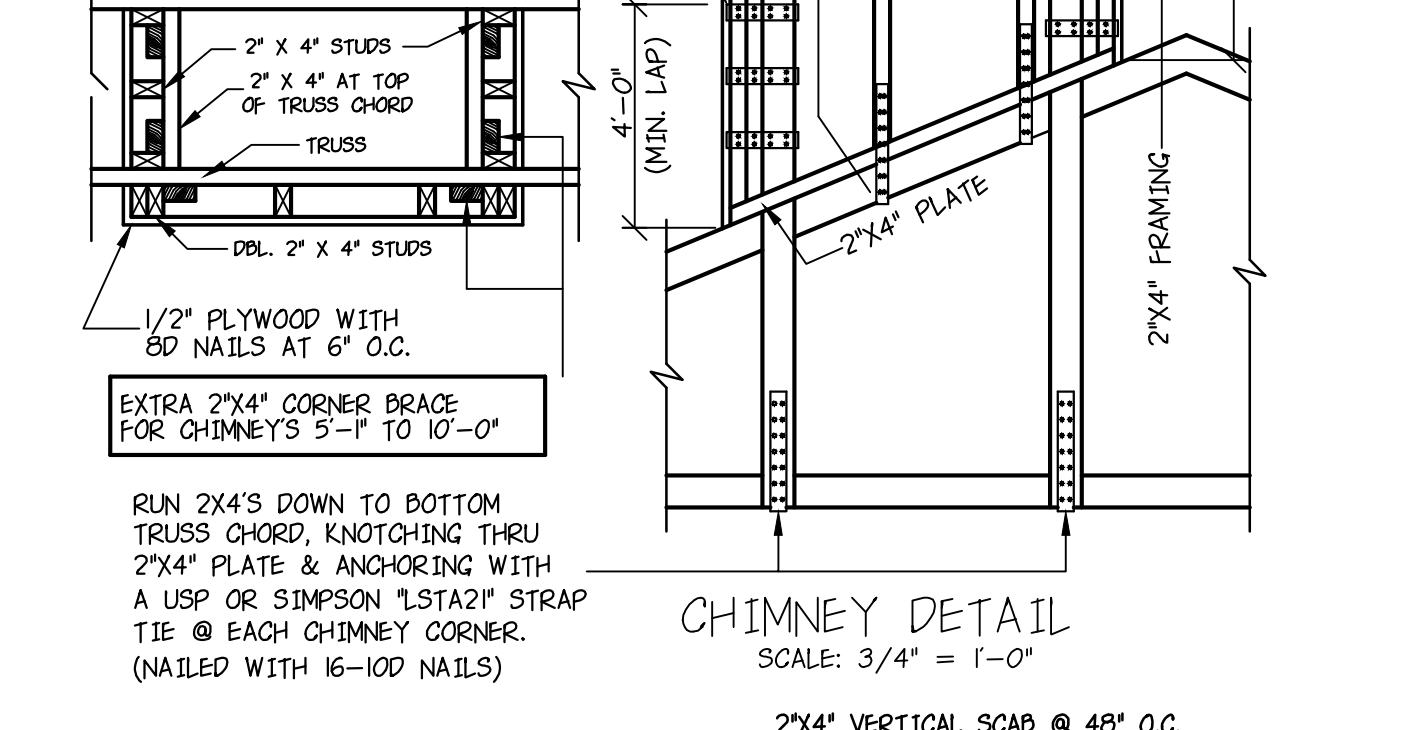
| PRODUCT CODE | DESCRIPTION | FASTENERS | DESIGN LOADS (LBS.) | |
|-----------------|-----------------|-----------|---------------------|--------|
| | | | RANKING | UPLIFT |
| USP "P0M44" | POST ANCHOR 4X4 | 2-8D | 6775 | 2350 |
| SIMPSON "P0M44" | POST ANCHOR 4X4 | 2-8D | 6665 | 2200 |

| PRODUCT CODE | DESCRIPTION | FASTENERS | DESIGN LOADS (LBS.) | |
|-----------------|-----------------|-----------|---------------------|--------|
| | | | RANKING | UPLIFT |
| USP "P0M66" | POST ANCHOR 6X6 | 2-8D | 8005 | 2380 |
| SIMPSON "P0M66" | POST ANCHOR 6X6 | 2-8D | 8000 | 2300 |

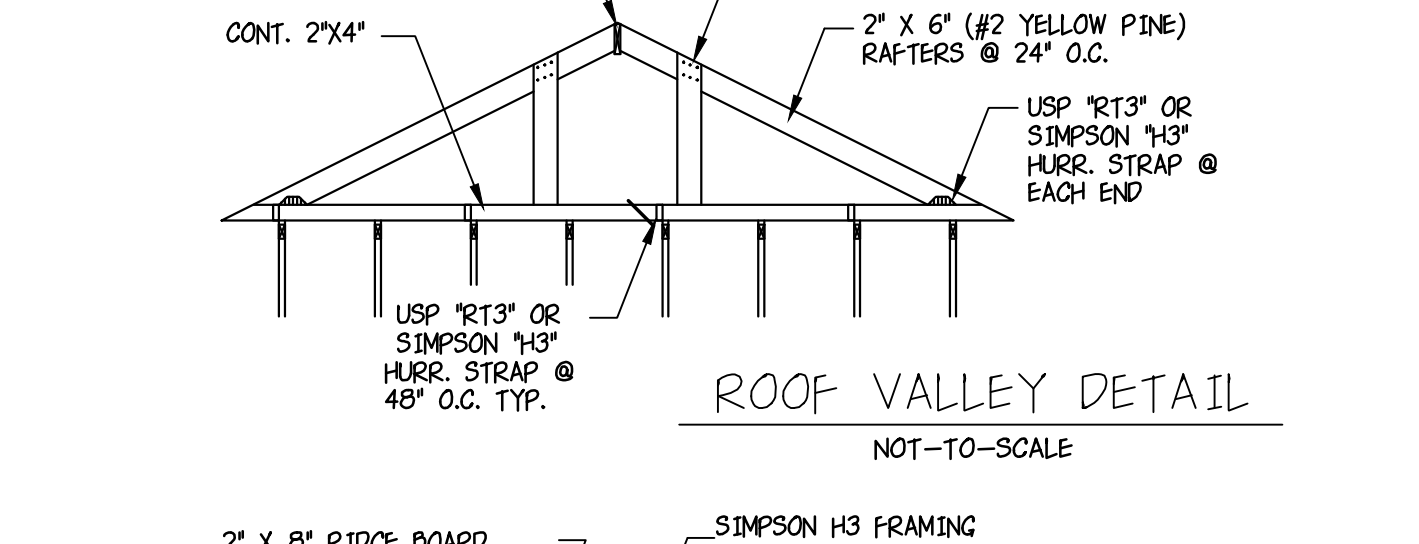
WOOD POST TO SLAB DETAIL
NOT TO SCALE



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



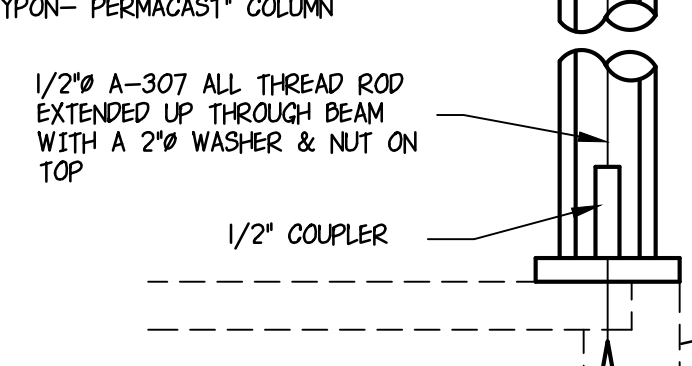
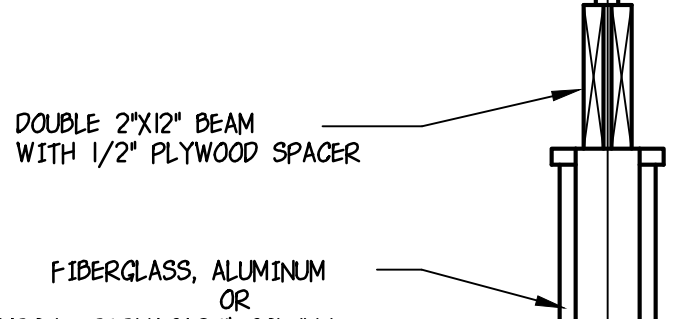
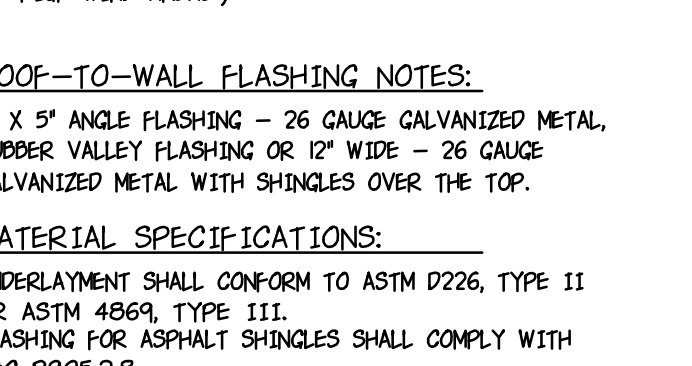
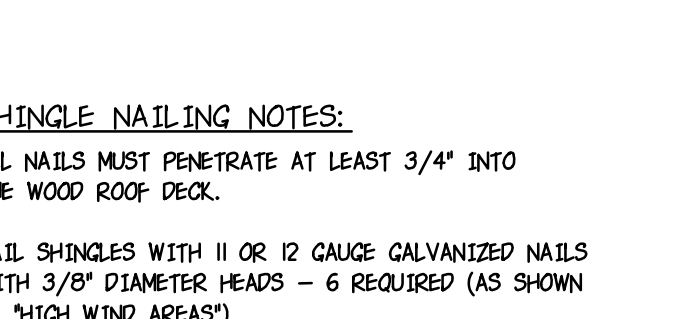
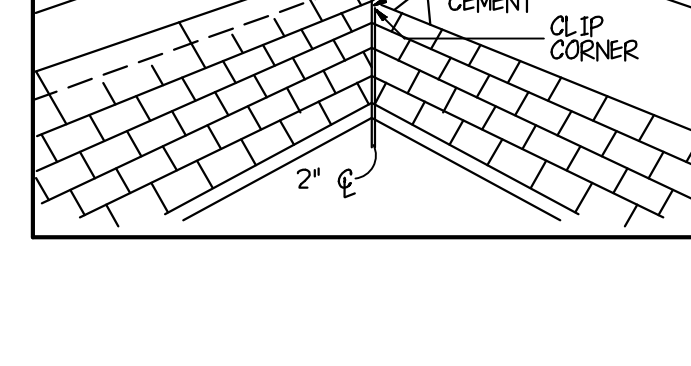
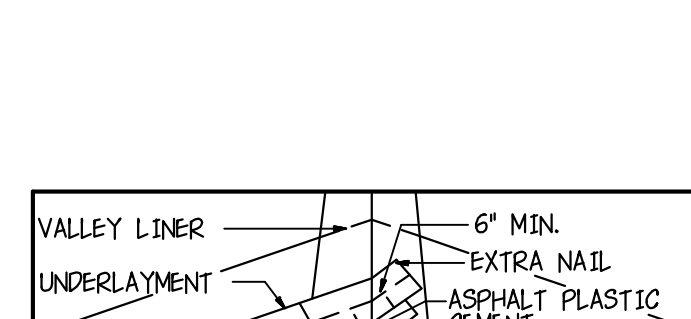
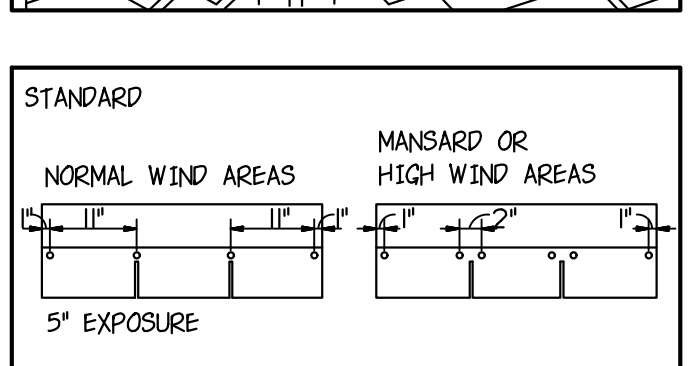
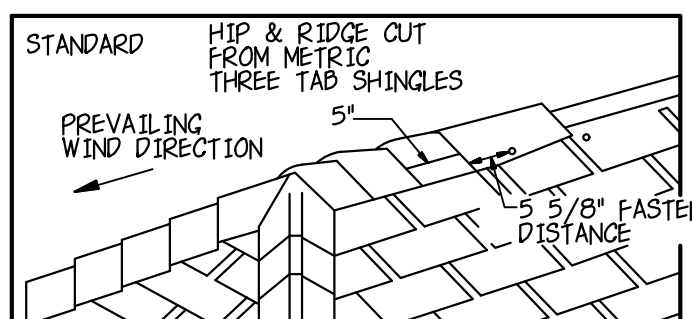
ROOF VALLEY DETAIL
NOT-TO-SCALE



POST SUPPORT TABLE

| POST LENGTH | POST SIZE | | | | | | | | | |
|-------------|-----------------|-----------------|-------------|-----------------|-------------|---------|------------|--------------|------------|--------------|
| | 3 1/2" X 3 1/2" | 3 1/2" X 5 1/4" | 3 1/2" X 7" | 5 1/4" X 5 1/4" | 5 1/4" X 7" | 7" X 7" | FLOOR ONLY | ROOF & FLOOR | FLOOR ONLY | ROOF & FLOOR |
| 8'-0" | 7,270# | 7,716# | 10,905# | 11,574# | 14,539# | 15,432# | 26,655# | 29,565# | 35,540# | 39,420# |
| 9'-0" | 6,115# | 6,441# | 9,173# | 9,662# | 12,231# | 12,883# | 23,484# | 25,631# | 31,312# | 34,175# |
| 10'-0" | 5,203# | 5,449# | 7,805# | 8,173# | 10,407# | 10,897# | 20,667# | 22,300# | 27,556# | 29,733# |
| 12'-0" | 3,885# | 4,033# | 5,827# | 6,050# | 7,770# | 8,067# | 16,166# | 17,107# | 21,555# | 22,907# |
| 14'-0" | 3,003# | 3,094# | 4,504# | 4,649# | 6,005# | 6,194# | 12,893# | 13,566# | 17,190# | 18,088# |
| 16'-0" | | | | | | | 10,483# | 10,952# | 13,977# | 14,603# |
| 18'-0" | | | | | | | 8,673# | 9,013# | 11,565# | 12,018# |
| 20'-0" | | | | | | | 7,286# | 7,540# | 9,715# | 10,053# |
| 22'-0" | | | | | | | | | 17,638# | 18,413# |
| 24'-0" | | | | | | | | | 15,333# | 15,944# |

POSTS SHALL BE (186) PARALLEL PSL MATERIALS MANUFACTURED BY TRUSSJOIST MACMILLAN (OR EQUAL).



ROOF SHINGLE & FLASHING INSTALLATION SPECS
NOT TO SCALE

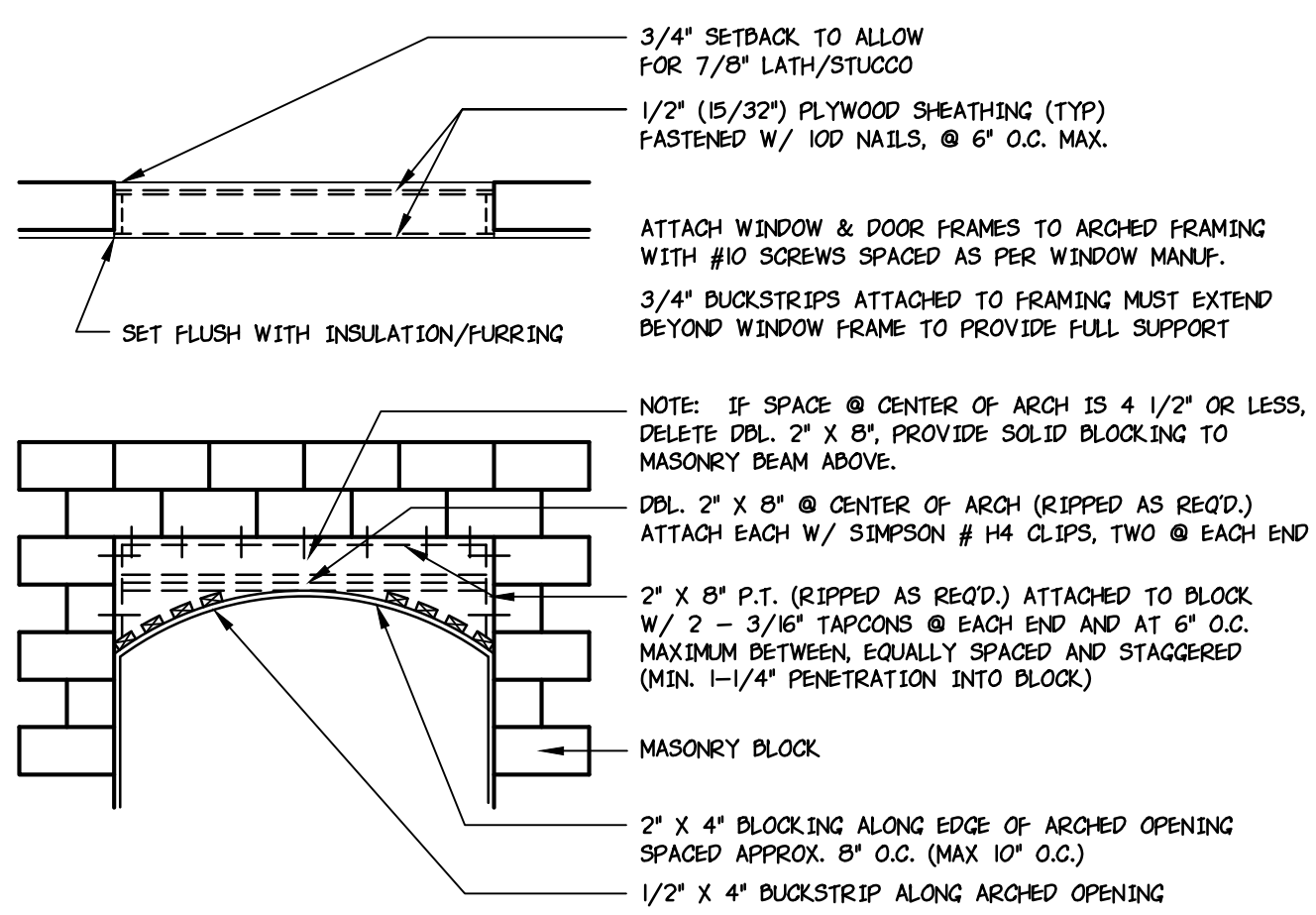
ENGINEER OF RECORD:
ARKAY ENGINEERING INC.
STRUCTURAL ENGINEERS
1458 E. EDGEWOOD DRIVE LAKELAND, FLORIDA 33809
PHONE: 888-668-6500 FAX: 888-668-6551
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION # EB6347
RICHARD L. KIDDET, P.E. - FLORIDA LICENSE # 512146

THE CONSTRUCTION PLANS SHOWN HEREON ARE IN COMPLIANCE WITH CHAPTER 16, SECTION 609 OF THE 2020 FLORIDA BUILDING CODE 7TH EDITION FOR A LOW M.P.H. ULTIMATE DESIGN WIND SPEED (RISK CATEGORY II) ALONG WITH THE ENTIRE 2020 FLORIDA BUILDING CODE, RESIDENTIAL, 7TH EDITION.

General Notes & Details

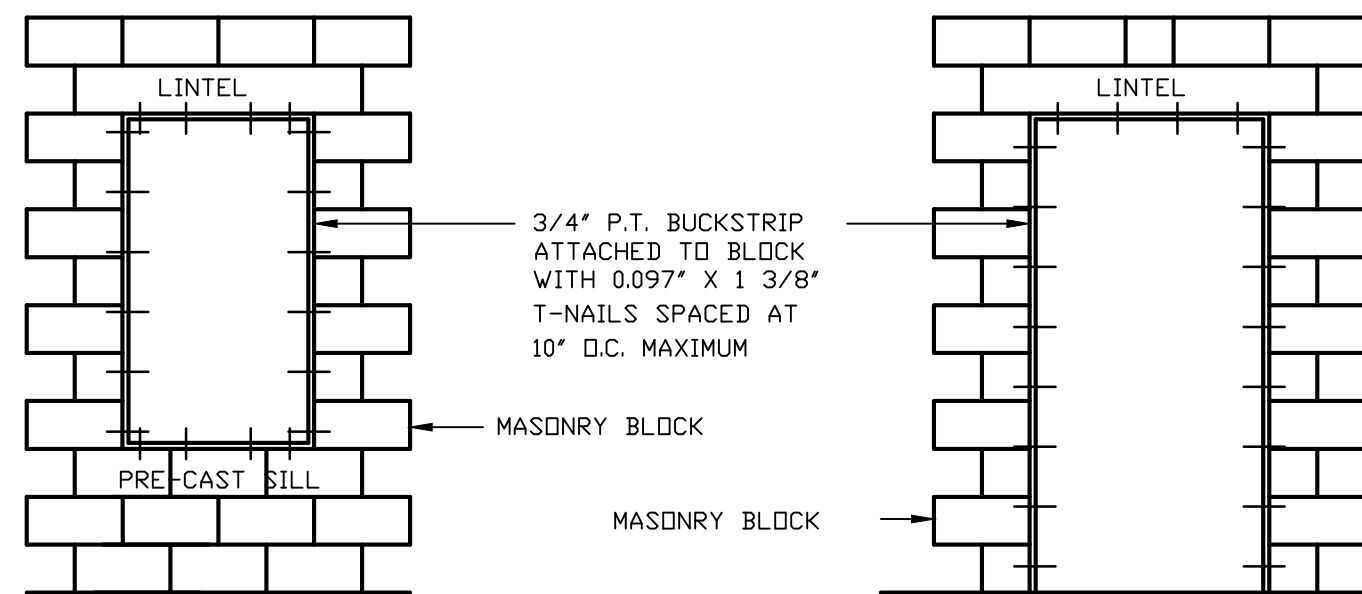
DATE: 1-2-21
SCALE: AS NOTED
JOB # FBC2020-140

SHEET
GN</



ARCHED WINDOW FILL-IN DETAIL
NOT TO SCALE

ATTACH WINDOW & DOOR FRAMES TO BLOCK WALL WITH TAPCON SCREWS SPACED AT WINDOW/DOOR MANUFACTURER'S SPECS (TAPCONS MUST PENETRATE THROUGH BUCKSTRIPS & INTO BLOCK 1 1/4" MINIMUM)



WINDOW BUCKSTRIP DETAIL
NOT TO SCALE

DOOR BUCKSTRIP DETAIL
NOT TO SCALE

NOTE: WINDOWS & DOORS MUST BE INSTALLED SUCH THAT THE MAXIMUM GAP BETWEEN THE FRAME AND BUCKSTRIP IS 1/4"; IF THICKER BUCKSTRIP MATERIAL IS NEEDED RIP IT FROM 1 1/2" MATERIAL & ATTACH TO BLOCK WITH 3/16" TAPCONS AT 8" O.C. (TAPCON MUST PENETRATE BLOCK 1 1/4" MINIMUM)

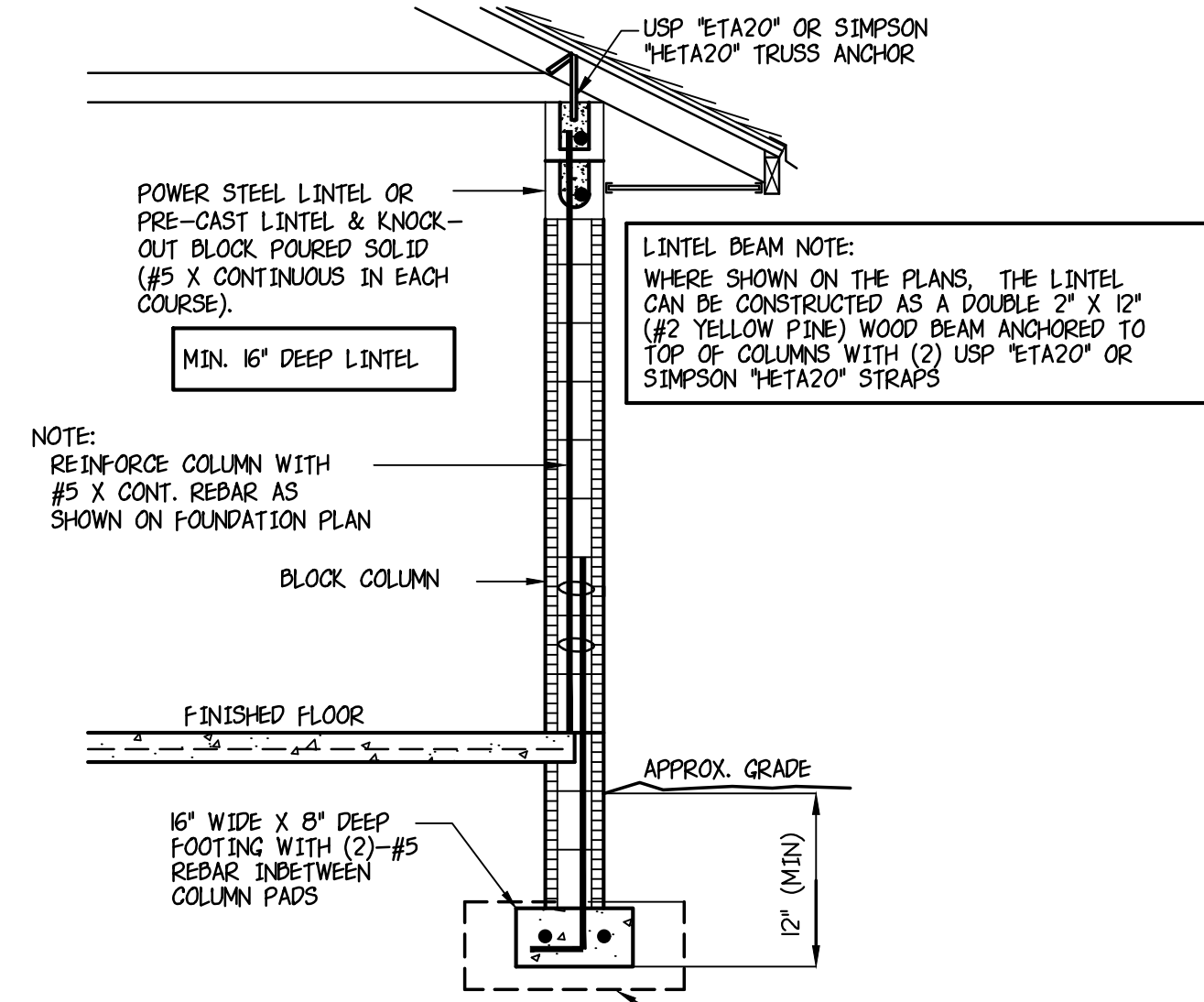
*IMPORTANT NOTE: IF NOT OTHERWISE NOTED, ALL WINDOWS FOR THE 140 MPH WIND SPEED MUST BE RATED FOR +35.3/-47.2 P.S.F. PRESSURES AND ALL GARAGE DOORS SHALL BE RATED FOR +18.5/-20.9 P.S.F. (MINIMUM).

| 140 MPH (3 SEC. GUST) WINDOWS (ENCLOSED BUILDING) | | | |
|---|-------------|------------------------|------------------------|
| WINDOW CALL-OUT | SQUARE FOOT | WIND PRESSURE POSITIVE | WIND PRESSURE NEGATIVE |
| 2024 | 4 | +35.3 | -47.2 |
| 2030 | 6 | +35.3 | -47.2 |
| 2038 | 7 | +35.3 | -47.2 |
| 2044 | 8 | +35.3 | -47.2 |
| 2050 | 10 | +35.3 | -47.2 |
| 2060 | 12 | +35.0 | -46.6 |
| 2424 | 5 | +35.3 | -47.2 |
| 2430 | 7 | +35.3 | -47.2 |
| 2438 | 8 | +35.3 | -47.2 |
| 2444 | 10 | +35.3 | -47.2 |
| 2450 | 11 | +35.1 | -46.9 |
| 2460 | 11 | +34.7 | -45.9 |
| 2824 | 6 | +35.3 | -47.2 |
| 2830 | 8 | +35.3 | -47.2 |
| 2838 | 9 | +35.3 | -47.2 |
| 2844 | 11 | +35.1 | -46.9 |
| 2850 | 13 | +34.8 | -46.2 |
| 2860 | 15 | +34.3 | -45.3 |
| 3024 | 7 | +35.3 | -47.2 |
| 3030 | 9 | +35.3 | -47.2 |
| 3038 | 11 | +35.1 | -46.9 |
| 3044 | 13 | +34.8 | -46.2 |
| 3050 | 15 | +34.5 | -45.6 |
| 3060 | 18 | +34.0 | -44.6 |
| 3424 | 7 | +35.3 | -47.2 |
| 3430 | 10 | +35.3 | -47.2 |
| 3438 | 12 | +35.0 | -46.6 |
| 3444 | 14 | +34.7 | -45.9 |
| 3450 | 16 | +34.3 | -45.3 |
| 3460 | 20 | +33.7 | -44.0 |
| 3824 | 8 | +35.3 | -47.2 |
| 3830 | 11 | +35.1 | -46.9 |
| 3838 | 13 | +34.8 | -46.2 |
| 3844 | 15 | +34.5 | -45.6 |
| 3850 | 18 | +34.0 | -44.6 |
| 3860 | 22 | +33.6 | -43.7 |
| 4224 | 9 | +35.3 | -47.2 |
| 4030 | 12 | +35.0 | -46.6 |
| 4038 | 14 | +34.7 | -45.9 |
| 4044 | 17 | +34.2 | -45.0 |
| 4050 | 20 | +33.7 | -44.0 |
| 4060 | 24 | +33.4 | -43.4 |

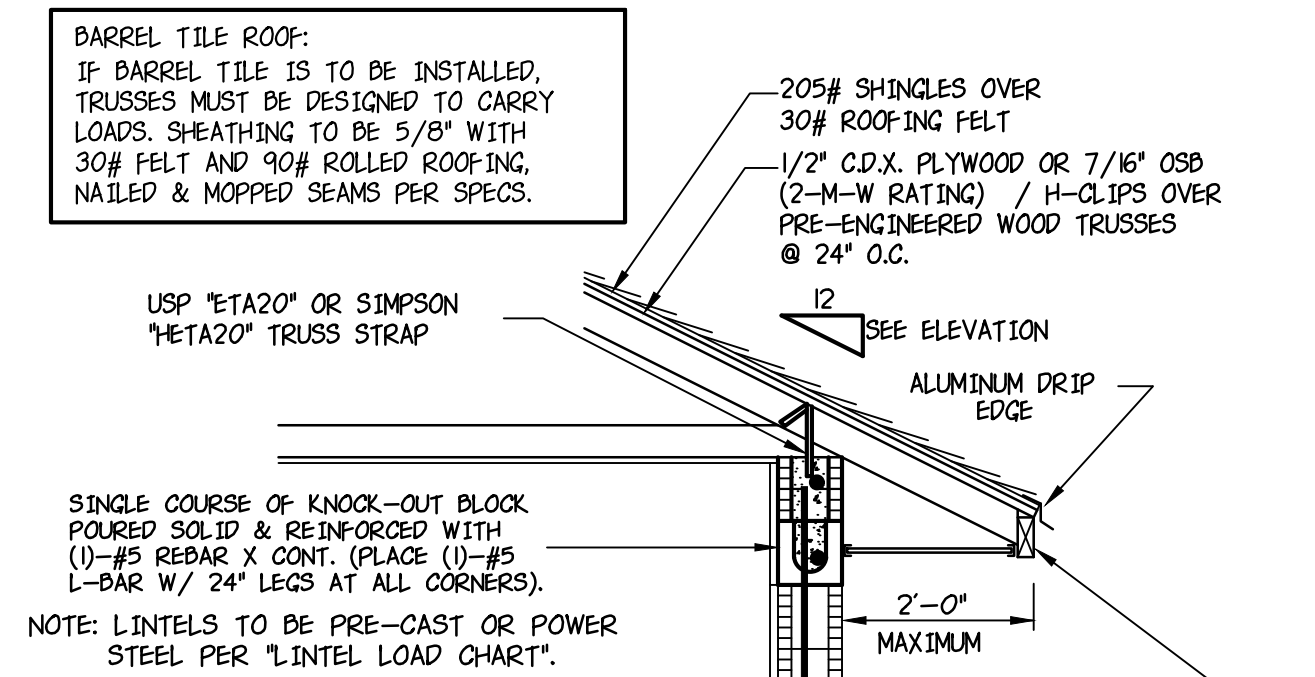
| 140 MPH (3 SEC. GUST) WINDOWS (ENCLOSED BUILDING) | | | |
|---|-------------|------------------------|------------------------|
| WINDOW CALL-OUT | SQUARE FOOT | WIND PRESSURE POSITIVE | WIND PRESSURE NEGATIVE |
| 12 | 3 | +35.3 | -47.2 |
| 13 | 5 | +35.3 | -47.2 |
| 14 | 7 | +35.3 | -47.2 |
| 15 | 8 | +35.3 | -47.2 |
| 16 | 10 | +35.3 | -47.2 |
| 1/2 32 | 5 | +35.3 | -47.2 |
| 1/2 33 | 7 | +35.3 | -47.2 |
| 1/2 34 | 9 | +35.3 | -47.2 |
| 1/2 35 | 12 | +35.0 | -46.6 |
| 1/2 36 | 14 | +34.7 | -45.9 |
| 3026 | 5 | +35.3 | -47.2 |
| 3028 | 8 | +35.3 | -47.2 |
| 3050 | 10 | +35.3 | -47.2 |
| 3063 | 13 | +34.8 | -46.2 |
| 3072 | 15 | +34.5 | -45.6 |
| 22 | 6 | +35.3 | -47.2 |
| 23 | 10 | +35.3 | -47.2 |
| 24 | 13 | +34.8 | -46.2 |
| 25 | 16 | +34.3 | -45.3 |
| 26 | 19 | +33.9 | -44.3 |
| 4826 | 8 | +35.3 | -47.2 |
| 4838 | 12 | +35.0 | -46.6 |
| 4850 | 16 | +34.3 | -45.3 |
| 4863 | 21 | +33.6 | -43.9 |
| 4872 | 24 | +33.4 | -43.4 |
| 32 | 9 | +35.3 | -47.2 |
| 33 | 14 | +34.7 | -45.9 |
| 34 | 18 | +34.0 | -44.6 |
| 35 | 23 | +33.5 | -43.6 |
| 36 | 28 | +33.1 | -42.9 |

| 140 MPH (3 SEC. GUST) OPENINGS (ENCLOSED BUILDING) | | | |
|--|------------------------|------------------------|--|
| WINDOW OR DOOR OPENING SQ. FT. | WIND PRESSURE POSITIVE | WIND PRESSURE NEGATIVE | |
| 10 | +35.3 | -47.2 | |
| 20 | +33.7 | -44.0 | |
| 30 | +33.0 | -42.6 | |
| 40 | +32.3 | -41.2 | |
| 50 | +31.6 | -39.8 | |
| 60 | +31.3 | -39.2 | |
| 70 | +31.0 | -38.6 | |
| 80 | +30.6 | -37.9 | |
| 90 | +30.3 | -37.3 | |
| 100+ | +30 | -36.7 | |

GARAGE DOORS +18.5/-20.9 PSF

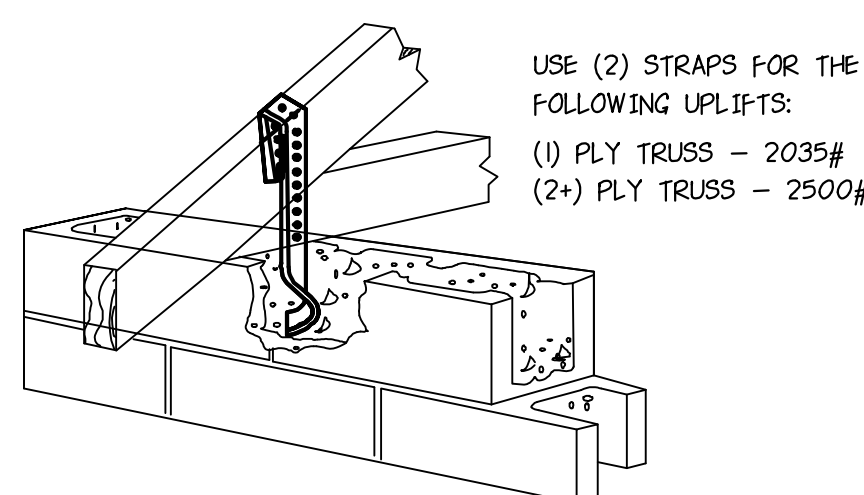


BLOCK COLUMN DETAIL
SCALE: 1/2" = 1'-0"



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

| PRODUCT CODE | DESCRIPTION | MATERIAL GAUGE | DIMENSION LENGTH | FASTENERS 100 X 1 1/2" | DESIGN LOADS (LBS.) UPLIFT | F1 | F2 |
|----------------|--------------|----------------|------------------|------------------------|----------------------------|-----|-----|
| USP #2A20* | TRUSS ANCHOR | 16 | 20" | 10 | 1500 | 540 | 660 |
| SIMPSON #2A20* | TRUSS ANCHOR | 16 | 20" | 10 | 1800 | 330 | 730 |



TRUSS TO BLOCK DETAIL
NOT TO SCALE

USE SIMPSON #MC1 HEAVY GIRDER TIEDOWN FOR UPLIFTS UP TO 3,960#

USE SIMPSON #4CT-3 HEAVY GIRDER TIEDOWN FOR UPLIFTS UP TO 10,530#

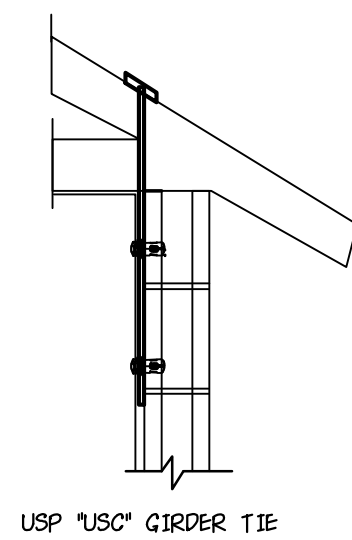
USE SIMPSON #4CT-4 HEAVY GIRDER TIEDOWN FOR UPLIFTS UP TO 9,250#

USE (1) SIMPSON #GTR# FACE MOUNT GIRDER TIEDOWN FOR UPLIFTS UP TO 5,000 LBS. WITH (2) 1/2" X 5" TITEN HD FASTENERS OR EQUIV.

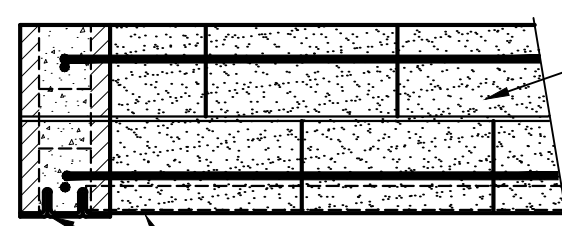
USE (2) SIMPSON #GTR# FACE MOUNT GIRDER TIEDOWNS FOR UPLIFTS UP TO 9,400 LBS. WITH (4) 1/2" X 5" TITEN HD FASTENERS OR EQUIV.

USE USP #UC# GIRDER TIE CONNECTOR FOR UPLIFTS UP TO 6,170 LBS. WITH (2) 3/4" X 5" EXPANSION BOLTS.

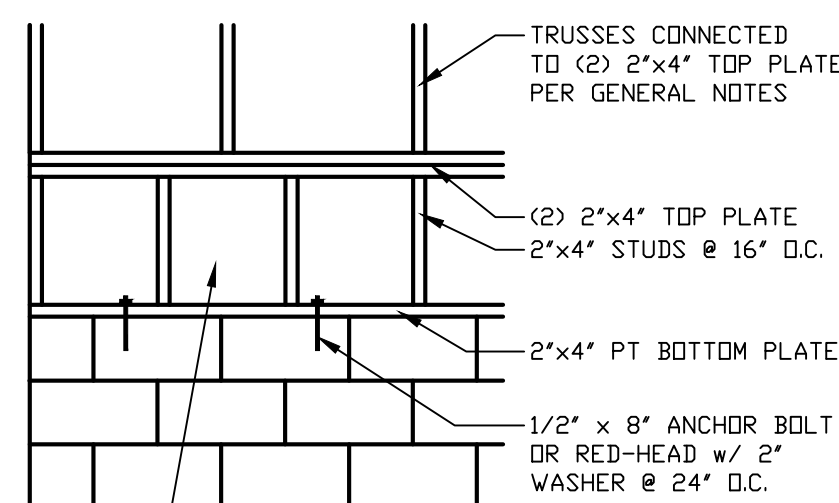
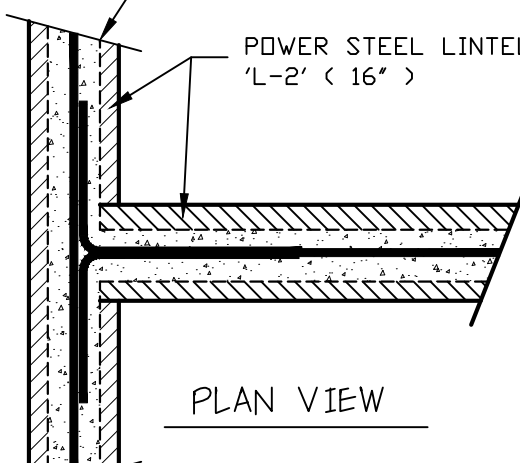
USE USP #US# GIRDER TIE CONNECTOR FOR UPLIFTS FROM 6,171 TO 11,500 LBS. WITH (4) 3/4" X 5" EXPANSION BOLTS.



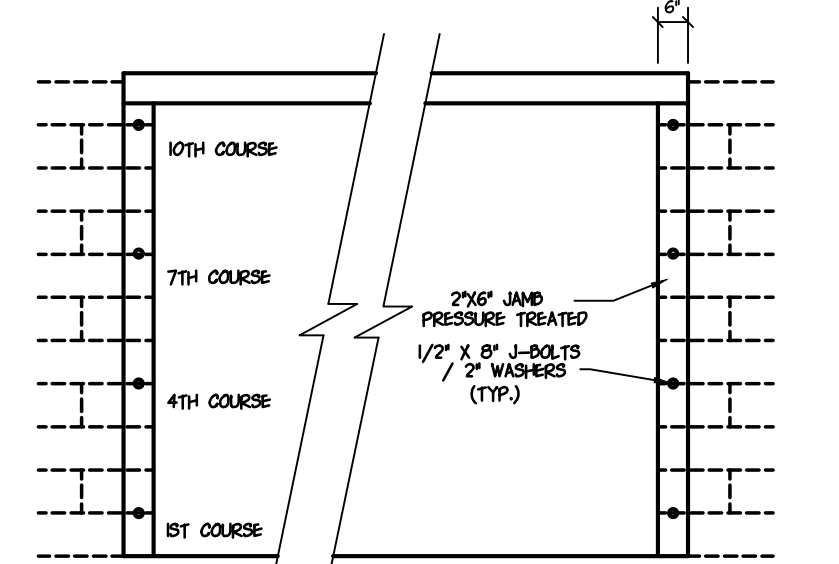
GIRDER TRUSS TO BLOCK DETAIL
NOT TO SCALE



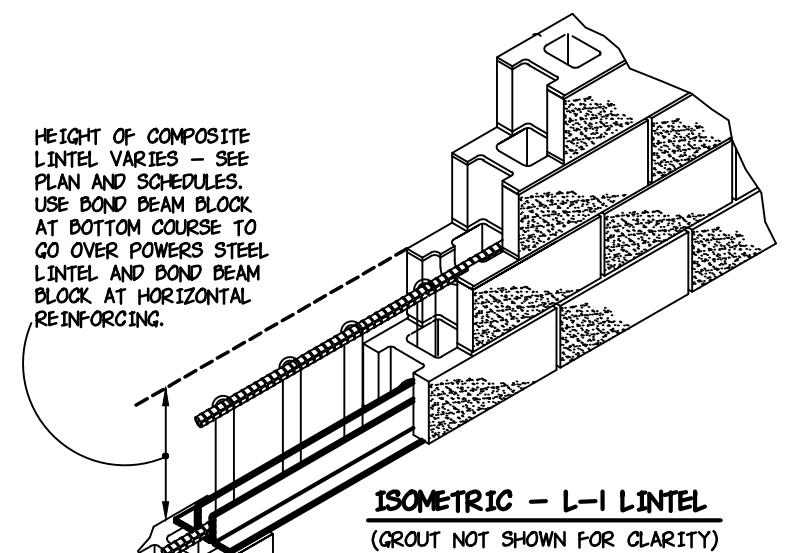
SECTION @ POWERS STEEL INTERSECTION
NOT TO SCALE



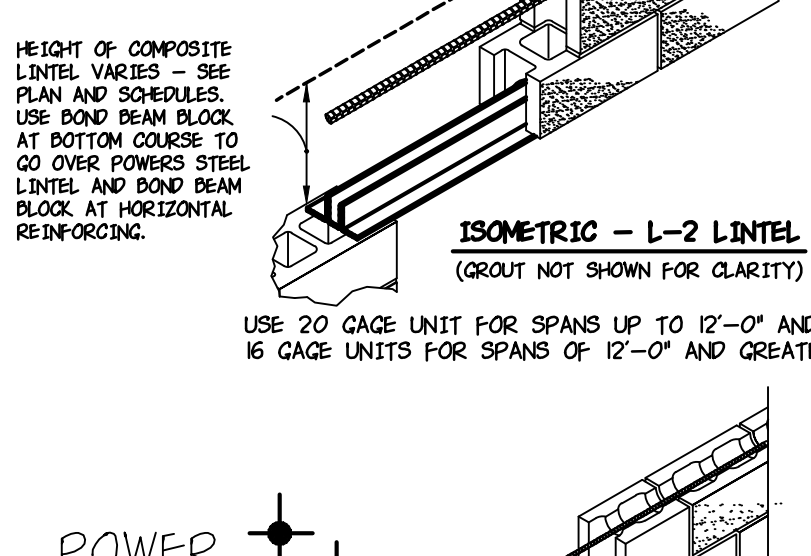
KNEEWALL DETAIL
NOT TO SCALE



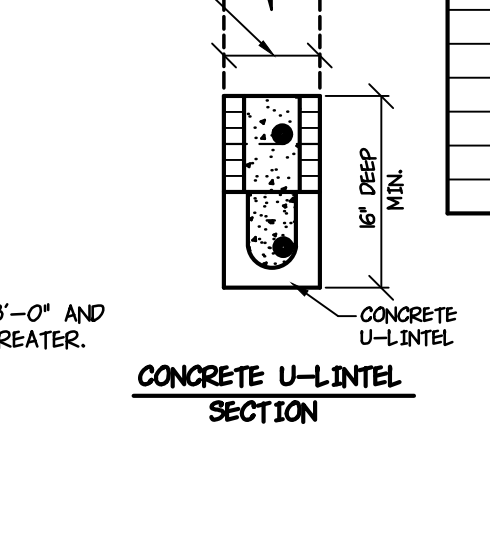
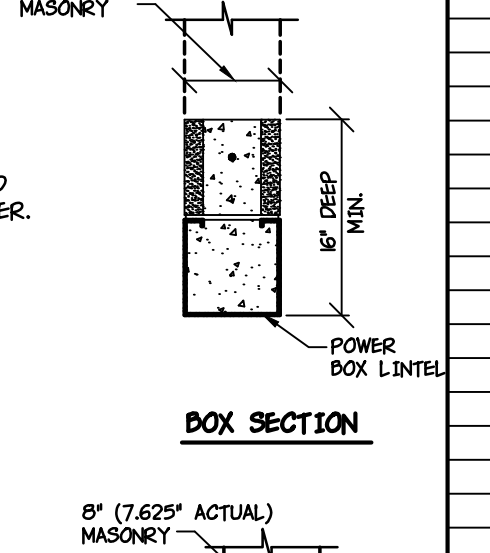
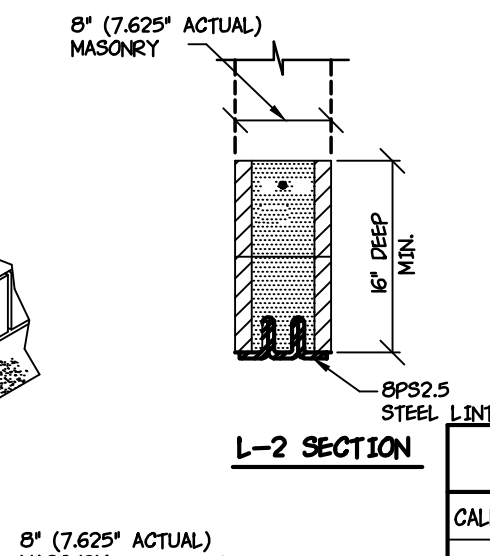
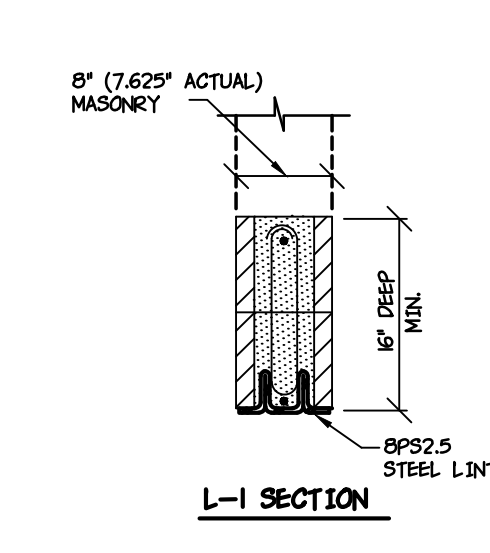
GARAGE DOOR JAMB
NOT TO SCALE



POWER STEEL

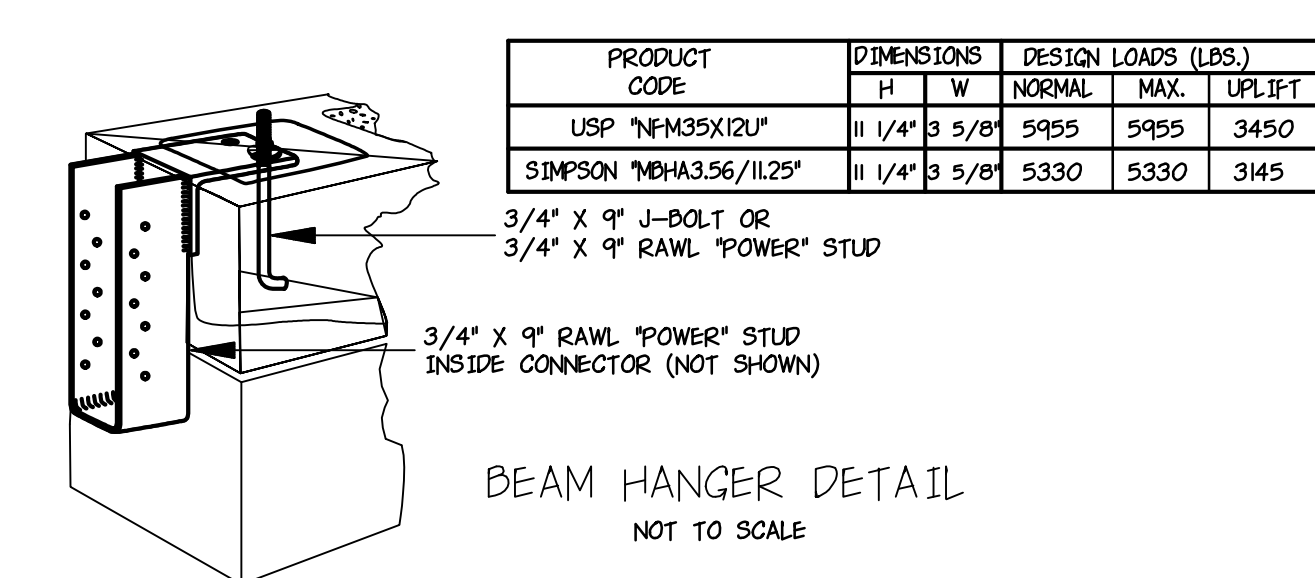


POWER STEEL



| LINTEL LOAD CHART (16" DEEP SECTION) | | | |
|--------------------------------------|------------|------------------------|----------------------|
| CALL-OUT | CLEAR SPAN | CONCRETE U-LINTEL | "POWER" STEEL |
| L1 | 1'-6" | 4987 P.L.F. (UNFILLED) | 7070 P.L.F. L-2 |
| L2 | 2'-2" | 3435 P.L.F. (UNFILLED) | 6626 P.L.F. L-2 |
| L3 | 2'-8" | 2777 P.L.F. (UNFILLED) | 5296 P.L.F. L-2 |
| L4 | 3'-2" | 2332 P.L.F. (UNFILLED) | 4508 P.L.F. L-2 |
| L5 | 4'-0" | 1835 P.L.F. (UNFILLED) | 3535 P.L.F. L-2 |
| L6 | 4'-6" | 1624 P.L.F. (UNFILLED) | 3154 P.L.F. L-2 |
| L7 | 5'-2" | 2739 P.L.F. ** | 2746 P.L.F. L-2 ** |
| L8 | 6'-2" | 2271 P.L.F. ** | 2298 P.L.F. L-2 ** |
| L9 | 7'-0" | 1987 P.L.F. ** | 2025 P.L.F. L-2 ** |
| L10 | 8'-0" | 1723 P.L.F. ** | 1768 P.L.F. L-2 ** |
| L11 | 9'-2" | 1494 P.L.F. ** | 1545 P.L.F. L-2 ** |
| L12 | 10'-0" | 1254 P.L.F. ** | 1244 P.L.F. L-2 ** |
| L13 | 10'-8" | 1277 P.L.F. ** | 1325 P.L.F. L-2 ** |
| L14 | 11'-2" | 1200 P.L.F. ** | 1230 P.L.F. L-2 ** |
| L15 | 12'-0" | 1029 P.L.F. ** | 1078 P.L.F. L-2 ** |
| L16 | 12'-8" | 1044 P.L.F. ** | 116 P.L.F. L-2 ** |
| L17 | 13'-4" | 1398 P.L.F. ** P | 1387 P.L.F. ** S L-1 |
| L18 | 14'-0" | 1327 P.L.F. ** P | 1321 P.L.F. ** S L-1 |
| L19 | 15'-0" | 1152 P.L.F. ** P | 1048 P.L.F. ** S L-1 |
| L20 | 16'-0" | 1016 P.L.F. ** P | 828 P.L.F. ** S L-1 |
| L21 | 18'-0" | 977 P.L.F. ** P | 770 P.L.F. ** S L-1 |
| L22 | 20'-0" | 876 P.L.F. ** P | 629 P.L.F. ** S L-1 |
| L23 | 22'-0" | 784 P.L.F. ** P | 523 P.L.F. ** S L-1 |

** DENOTES #5 REBAR X CONT. PLACED IN BOTTOM COURSE AND 16" DEEP BEAM POURED SOLID WITH 2,500 PSI CONCRETE.
** P DENOTES PRE-STRESSED U-LINTEL WITH #5 REBAR X CONT. PLACED IN BOTTOM COURSE & 16" DEEP BEAM POURED SOLID WITH 2,500 PSI CONCRETE.
** S DENOTES "POWER" STEEL L-1 LINTEL WITH #5 REBAR X CONT. PLACED IN BOTTOM COURSE & (6)-5/8" SMOOTH STRIPS AT 8" O.C. AT EACH END IN A 16" DEEP BEAM POURED SOLID WITH 2,500 PSI CONCRETE.



| PRODUCT CODE | DIMENSIONS | | DESIGN LOADS (LBS.) | |
|------------------------|------------|--------|---------------------|-------------|
| | H | W | NORMAL | MAX. UPLIFT |
| USP #FM35X12U* | 11 1/4" | 3 5/8" | 5955 | 3450 |
| SIMPSON #MBH43.56/125* | 11 1/4" | 3 5/8" | 5330 | 3145 |

ENGINEER OF RECORD:
ARKAY ENGINEERING INC.
STRUCTURAL ENGINEERS
1458 E. EDGEWOOD DRIVE LAKELAND, FLORIDA 33809
PHONE: 865-668-6500 FAX: 865-668-6551
STATE OF FLORIDA CERTIFICATE OF AUTHORIZATION # EB63647
RICHARD L. KIDDET, P.E. - FLORIDA LICENSE # 57126

THE CONSTRUCTION PLANS SHOWN HEREON ARE IN COMPLIANCE WITH CHAPTER 16, SECTION 1604 OF THE 2020 FLORIDA BUILDING CODE (TYP. EDITION FOR 140 MPH ULTIMATE DESIGN WIND SPEED (RISK CATEGORY II) ALONG WITH THE ENTIRE 2020 FLORIDA BUILDING CODE, CATEGORY II, HORIZONTAL WIND SPEED - RESIDENTIAL - 110 MPH)

Masonry Details
(One Story Buildings)

DATE: 1-2-21
SCALE: AS NOTED
JOB # FBC2020-140B
SHEET
CB1
MODIFIED CATHEDRAL
PERMIT SET