

GENERAL NOTES

1. IT IS THE INTENT OF THE DESIGNER THAT THIS WORK BE IN CONFORMANCE WITH ALL REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION OVER THIS TYPE OF CONSTRUCTION & OCCUPANCY. ALL CONTRACTORS SHALL DO THEIR WORK IN CONFORMANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE JOB SITE PRIOR TO COMMENCING WORK. CONTRACTOR SHALL REPORT ALL DISCREPANCIES IN THE DRAWINGS AND EXISTING CONDITIONS TO THE DESIGNER BEFORE COMMENCEMENT OF WORK. THE DESIGNER'S RESPONSIBILITIES EXTEND ONLY TO CHANGING THE DRAWINGS AND UP TO THE VALUE OF SAID DRAWINGS.
3. THE CONTRACTOR SHALL SUPPLY, LOCATE AND BUILD INTO THE WORK ALL INSERTS, ANCHORS, ANGLES, PLATES, OPENINGS, SLEEVES, HANGERS, SLAB DEPRESSIONS AND PITCHES AS MAY BE REQUIRED TO ATTACH AND ACCOMMODATE OTHER WORK.
4. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE IN THE WORK EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.



Rao Designs, LLC
 RESIDENTIAL & COMMERCIAL
 CUSTOM HOMES DESIGNS
 239-243-1534

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CS	COVER SHEET
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LOCATION MAP

DESIGN PARAMETERS	
APPLICABLE CODES:	
BUILDING CODE= FLORIDA BUILDING CODE, BUILDING 2014 AND SECTION 1609	
MECHANICAL CODE= FLORIDA BUILDING CODE, MECHANICAL 2014	
PLUMBING CODE= FLORIDA BUILDING CODE, PLUMBING 2014	
ELECTRICAL CODE= N.E.C. 2011	
LIFE SAFETY CODE= N.F.P.A.	
ACCESSIBILITY CODE= FLORIDA BUILDING CODE, BUILDING 2012	
ENERGY CODE= FLORIDA BUILDING CODE, BUILDING 2014	
BASIC WIND SPEED:	
WV=140 ALT. 124 NOM.	
RISK CAT.= 2	
EXP = B	
BUILDING OCCUPANCY CLASSIFICATION:	
<input type="checkbox"/> GROUP A - ASSEMBLY	<input type="checkbox"/> GROUP H - HAZARDOUS
<input type="checkbox"/> GROUP B - BUSINESS	<input type="checkbox"/> GROUP I - INSTITUTIONAL
<input type="checkbox"/> GROUP D - DAY CARE CENTER	<input type="checkbox"/> GROUP M - MERCANTILE
<input type="checkbox"/> GROUP E - EDUCATIONAL	<input checked="" type="checkbox"/> GROUP R - RESIDENTIAL
<input type="checkbox"/> GROUP F - FACTORY INDUSTRIAL	<input type="checkbox"/> GROUP S - STORAGE
	<input type="checkbox"/> GROUP U - UTILITY/MISC.
BUILDING OCCUPANCY CLASSIFICATION:	
<input type="checkbox"/> TYPE I	<input type="checkbox"/> TYPE IV
<input type="checkbox"/> TYPE II	<input type="checkbox"/> TYPE V
<input type="checkbox"/> TYPE III	<input type="checkbox"/> TYPE VI
	<input checked="" type="checkbox"/> TYPE V-A
	<input checked="" type="checkbox"/> TYPE V-B
EXPOSURE CATEGORY:	
<input type="checkbox"/> A	<input type="checkbox"/> C
<input checked="" type="checkbox"/> B	<input type="checkbox"/> D
WINDBORNE DEBRIS REGION:	
<input type="checkbox"/> NO	
<input checked="" type="checkbox"/> YES	
<input checked="" type="checkbox"/> IMPACT RESISTANT GLAZING	
<input type="checkbox"/> IMPACT RESISTANT COVERING	
<input type="checkbox"/> COMBINATION OF IMPACT RESISTANT GLAZING / COVERING	
INTERNAL PRESSURE COEFFICIENTS:	
<input type="checkbox"/> 0.00 (OPEN)	
<input checked="" type="checkbox"/> + 0.18 - 0.18 (ENCLOSED)	
<input type="checkbox"/> + 0.35 - 0.55 (PARTIALLY ENCLOSED)	

NOTE:
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 CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY & ALL COSTS RELATED TO CORRECTIONS OF THE PLANS.

© 2017 RAO DESIGNS, LLC

Rao Designs, LLC
 ANTONIO RAO 239-243-1534
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 antonio.rao@gmail.com

Quattrone & Associates, Inc.
 Engineers, Planners, & Development Consultants
 4311 Venetia Shores Blvd - Fort Myers, Florida 33916 - 238-886-5222
 Certificate of Authorization Number: 8465
 IF ANY ERRORS OR OMISSIONS EXIST IN THESE DRAWINGS OR ANY PART THEREOF, THE DESIGNER AND ENGINEER OF RECORD SHALL BE RESPONSIBLE FOR THE SAME. THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL INFORMATION PROVIDED TO HIM AND ALL INFORMATION OBTAINED FROM ANY SOURCE. THE CONTRACTOR SHALL STRICTLY ADHERE TO ALL APPLICABLE BUILDING DEPARTMENT CODES AND AMENDMENTS BY LOCAL JURISDICTION.
 THE MAXIMUM LIABILITY TO QUATTRONE & ASSOCIATES, INC. AND QUATTRONE & ASSOCIATES, INC. AND ASSOCIATES, INC. SHALL NOT EXCEED THE AMOUNT OF FEES PAID TO BE REPRODUCED OR CHANGED AND/OR COPIED WITHOUT OBTAINING THE EXPRESSED WRITTEN CONSENT FROM RAO DESIGNS, LLC.

REVISIONS:	DATE:
△ x	
△ x	
△ x	
△ x	

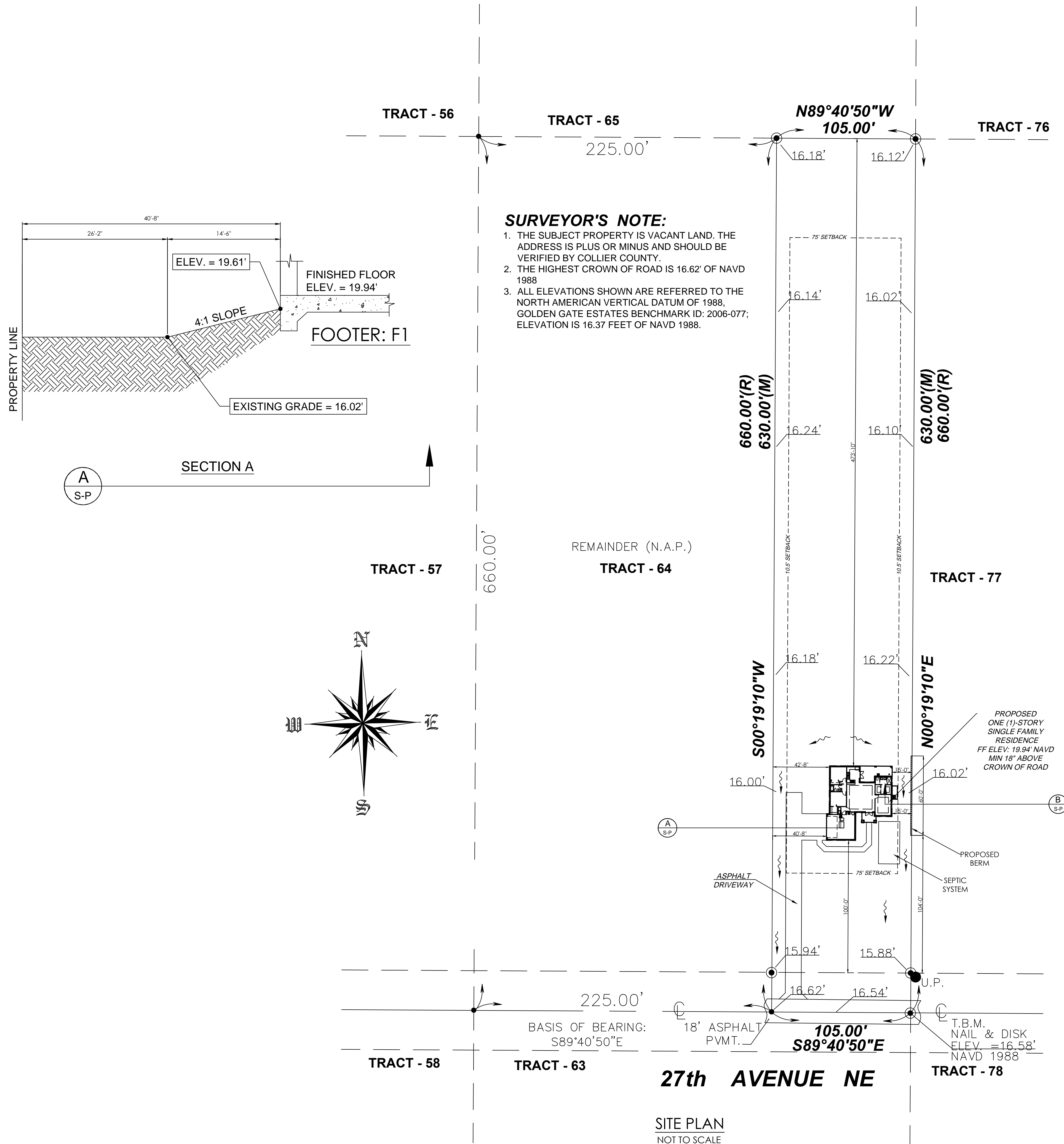
Drawn: AR CHECK BY: AQ
 11-13-2017 File: 17-199
 1/4" = 1'-0"

SPEC HOME
SINGLE FAMILY RESIDENCE
 Parcel No. 40067160008
27TH AVENUE NE
NAPLES FL 34120

APPROVED
 THIS STRUCTURE MEETS ALL REQUIREMENTS OF THE 2014 FL. BUILDING CODES
 ALFRED J. QUATTRONE
 FLORIDA P.E. #52741

THU, 11-30-2017 12:18 PM
 PLOTTED BY: ANTONIO

C-S



SURVEYOR'S NOTE:

1. THE SUBJECT PROPERTY IS VACANT LAND. THE ADDRESS IS PLUS OR MINUS AND SHOULD BE VERIFIED BY COLLIER COUNTY.
2. THE HIGHEST CROWN OF ROAD IS 16.62' OF NAVD 1988
3. ALL ELEVATIONS SHOWN ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988. GOLDEN GATE ESTATES BENCHMARK ID: 2006-077; ELEVATION IS 16.37 FEET OF NAVD 1988.

LAND USE BREAKDOWN/ CALCULATIONS (PER SECTION 6.05.03):

TOTAL SITE AREA	69,300	SF
ROOFED STRUCTURES AREA		
SINGLE FAMILY HOME	2236	SF
TOTAL ROOFED AREA	2236	SF 3%
IMPERVIOUS AREA		
PROPOSED ASPHALT DRIVE	2504	SF
PROPOSED CONCRETE PAD	40	SF
TOTAL IMPERVIOUS AREA	2544	SF 4%
TOTAL IMPACTED AREA	4780	SF 7%

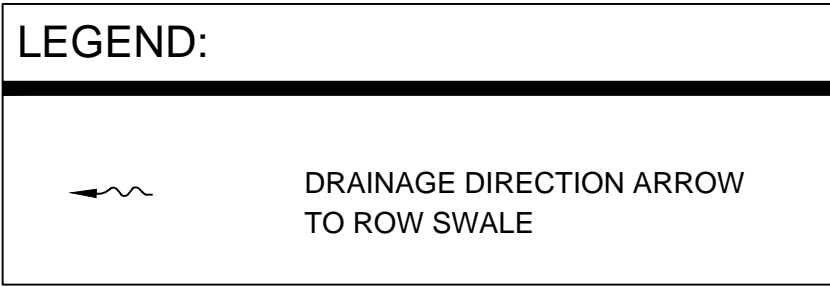
TYPE I DRAINAGE PLAN

- 1) SITE SHALL BE GRADED TO THE MAXIMUM EXTENT POSSIBLE TO THE PROPOSED FLOW ARROWS
- 2) ELEVATIONS BASED ON NAVD 1988
- 3) THIS PLAN IS FOR DRAINAGE
- 4) ELEVATIONS BASED ON LIDAR DATA. CONTRACTOR MUST VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION AND ADVISE THE ENGINEER OF ANY DISCREPANCIES BEFORE STARTING ANY SITE WORK (I.E. EXISTING SITE GRADES, ROAD ELEVATIONS).

BOUNDARY INFORMATION IS PER SURVEY:
 GEOMETRIC SURVEYING, INC
 SURVEY NO: 17-000503

LEGAL DESCRIPTION:
 THE EAST 105 FEET OF THE EAST 180 FEET OF TRACT No. 64, GOLDEN GATE ESTATES, UNIT 67, ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 5, PAGE 89, OF THE PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA.

FLOOD ZONE INFORMATION:
 THE NFIP FLOOD MAPS HAVE DESIGNATED THE HEREIN DESCRIBED LAND TO BE SITUATED IN:
 FLOOD ZONE: "AH"
 BASE FLOOD ELEVATION: 16.00 FT.
 COMMUNITY: 120067
 PANEL: 0245
 SUFFIX: H
 DATE OF FIRM: 05/16/2012
 THE SUBJECT PROPERTY DOES LIE IN A SPECIAL FLOOD HAZARD AREA.



CERTIFIED SURVEYOR TO VERIFY SETBACKS, PLACEMENT, FF ELEVATION AND SEPTIC ELEVATION

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Quattrone & Associates, Inc.
 Engineers, Planners, & Development Consultants
 4301 Veronica Shumaker Blvd - Fort Myers, Florida 33916 - 238-886-5222
 Certificate of Authorization Number: 8465

REVISIONS: DATE:

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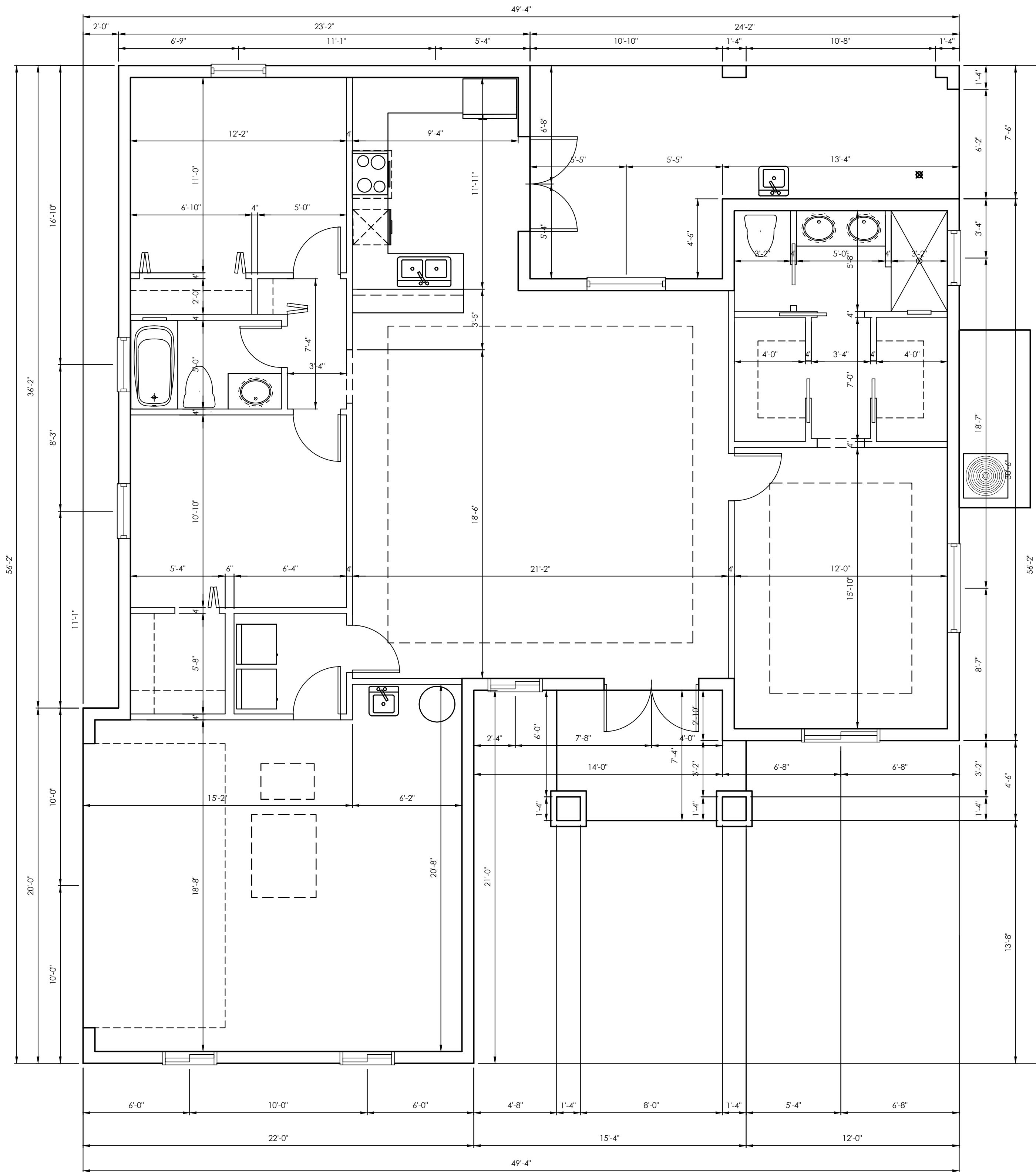
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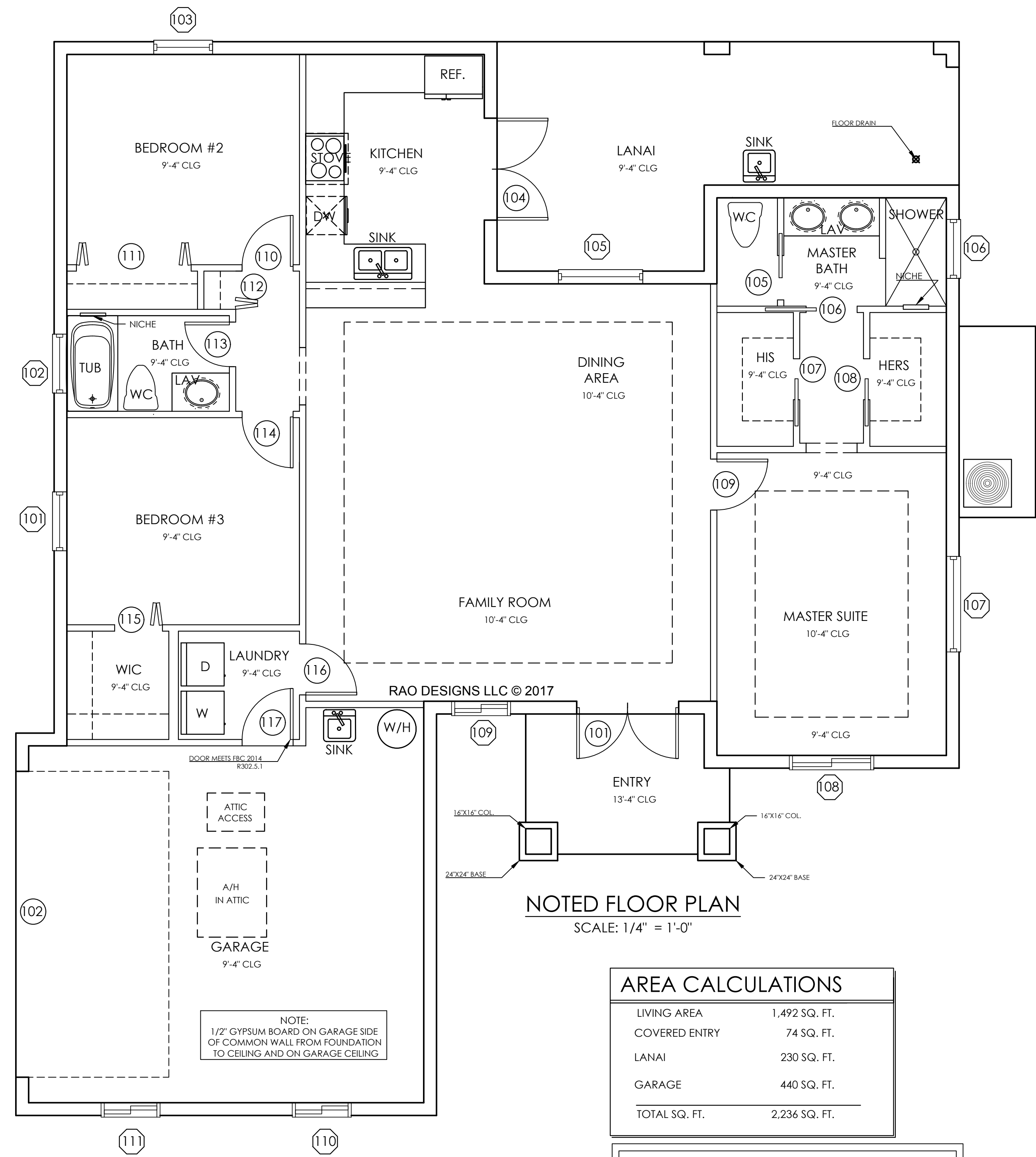
S-P



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

DOOR SCHEDULE						
NO.	STYLE	SIZE		MATERIAL	PROTECTION	REMARKS
		WIDTH	HEIGHT			
101	SWING-EXT	5'-4"	8'-0"	ALUMINUM	IMPACT	
102	GARAGE O.H.	16'-0"	8'-0"	METAL	IMPACT	
103	REMOVED					
104	SWING-EXT	5'-4"	8'-0"	ALUMINUM	IMPACT	
105	POCKET	2'-6"	8'-0"	WOOD		
106	POCKET	2'-8"	8'-0"	WOOD		
107	POCKET	2'-6"	8'-0"	WOOD		
108	POCKET	2'-6"	8'-0"	WOOD		
109	SWING	2'-8"	8'-0"	WOOD		
110	SWING	2'-8"	8'-0"	WOOD		
111	BI-FOLD	6'-0"	8'-0"	WOOD		
112	BI-FOLD	2'-0"	8'-0"	WOOD		
113	SWING	2'-6"	8'-0"	WOOD		
114	SWING	2'-8"	8'-0"	WOOD		
115	BI-FOLD	2'-6"	8'-0"	WOOD		
116	SWING	2'-8"	8'-0"	WOOD		
117	SWING	2'-8"	8'-0"	STEEL		20 MIN. RATED

WINDOW SCHEDULE						
NO.	STYLE	SIZE		MATERIAL	PROTECTION	REMARKS
		WIDTH	HEIGHT			
101	SINGLE HUNG	3'-1"	5'-3"	ALUM.	IMPACT	EGRESS
102	SINGLE HUNG	3'-1"	3'-2"	ALUM.	IMPACT	OBSCURE
103	SINGLE HUNG	3'-1"	5'-3"	ALUM.	IMPACT	EGRESS
104	REMOVED					
105	SINGLE HUNG	4'-5"	5'-3"	ALUM.	IMPACT	
106	SINGLE HUNG	3'-1"	3'-2"	ALUM.	IMPACT	OBSCURE
107	FIXED GLASS	5'-0"	1'-8"	ALUM.	IMPACT	
108	HORIZONTAL ROLLER	4'-6"	5'-3"	ALUM.	IMPACT	EGRESS
109	HORIZONTAL ROLLER	3'-0"	5'-3"	ALUM.	IMPACT	
110	HORIZONTAL ROLLER	3'-0"	5'-3"	ALUM.	IMPACT	
111	HORIZONTAL ROLLER	3'-0"	5'-3"	ALUM.	IMPACT	



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

AREA CALCULATIONS	
LIVING AREA	1,492 SQ. FT.
COVERED ENTRY	74 SQ. FT.
LANAI	230 SQ. FT.
GARAGE	440 SQ. FT.
TOTAL SQ. FT.	2,236 SQ. FT.

NOTE:
ALL GLASS IN WINDOWS OR DOORS THAT ENCRoACH BELOW 60" FROM FINISHED FLOOR, MUST COMPLY WITH FBC 2406.3 / FBC R308.4 TEMPERED GLASS IN HAZARDOUS LOCATIONS.

NOTES:
1) ALL EXTERIOR DOORS SHALL BE 1-3/4" FIBERGLASS
2) ALL INTERIOR DOORS SHALL BE HOLLOW CORE UNLESS NOTED OTHERWISE.
3) ALL BI-FOLDS TO BE CASED W/CASING AND BRICK MOLD.
4) INT. WALLS TO BE 2X4 STUDS

Per FBC R302.5.1 Residential. Openings from a private garage into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 [35mm] inches in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches [35mm] thick or 20-minute fire-rated doors, equipped with a self-closing device

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IF ANY PERSONS OR ORGANIZATIONS EXIST IN THESE JURISDICTIONS OR ANY OTHER JURISDICTIONS WHOSE INTERESTS MAY BE AFFECTED BY THE DESIGN OR CONSTRUCTION OF ANY PROJECT, THEY SHOULD CONTACT QUATTRONE & ASSOCIATES, INC. OR ANTONIO RAO, P.E., AT THE ABOVE ADDRESS OR BY TELEPHONE AT 238-886-5222. CONTRACTORS SHALL STRICTLY ADHERE TO ALL APPLICABLE BUILDING DEPARTMENT CODES AND AMENDMENTS BY LOCAL GOVERNMENT AGENCIES.
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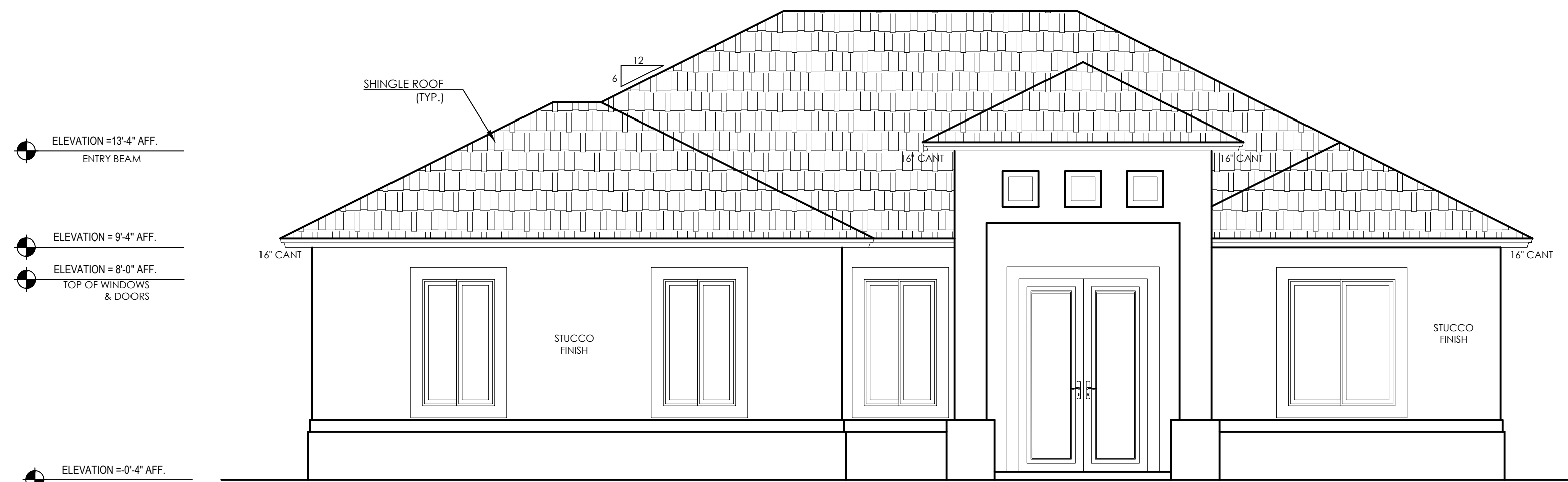
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3	x
4	x

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11-13-2017 File: 17-199
1/4" = 1'-0"

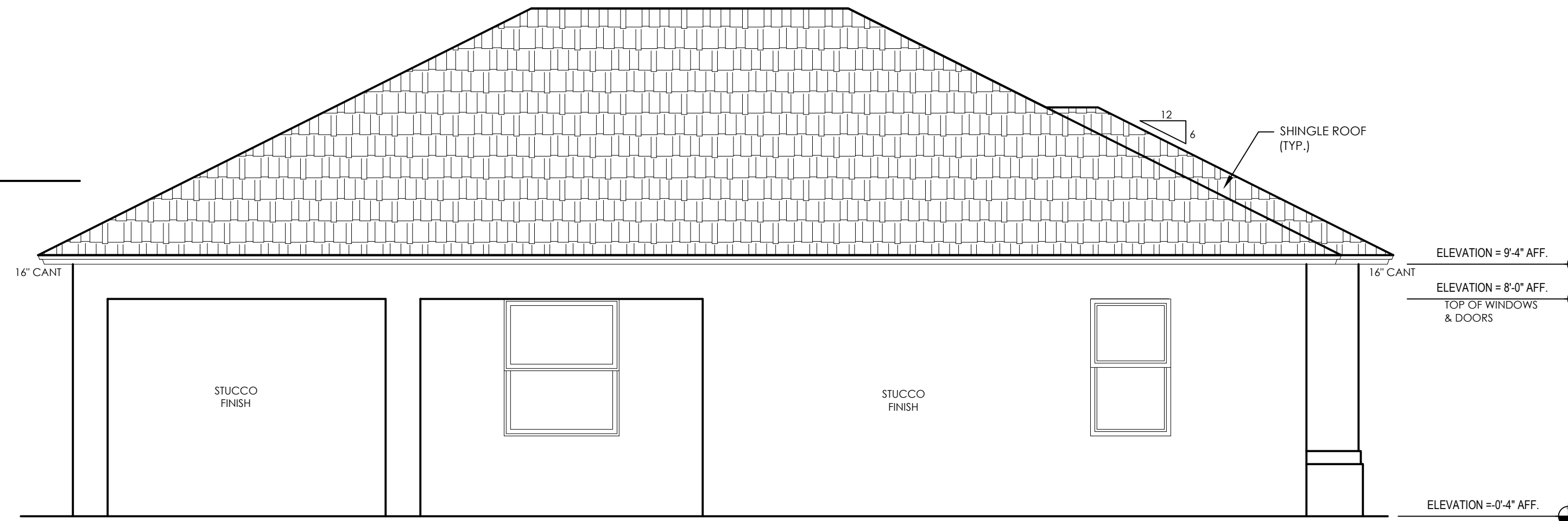
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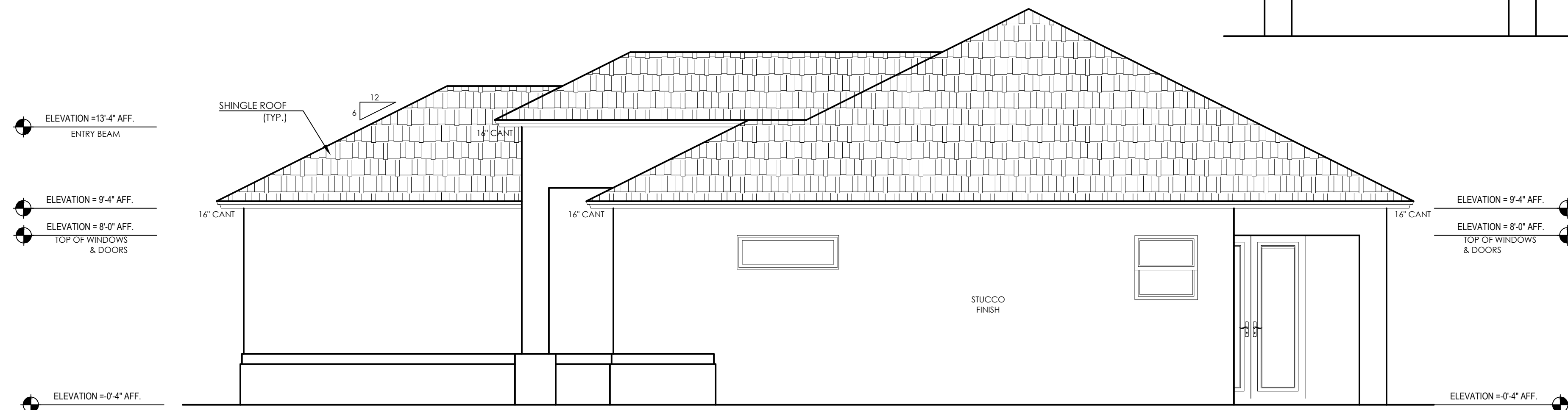
A-1



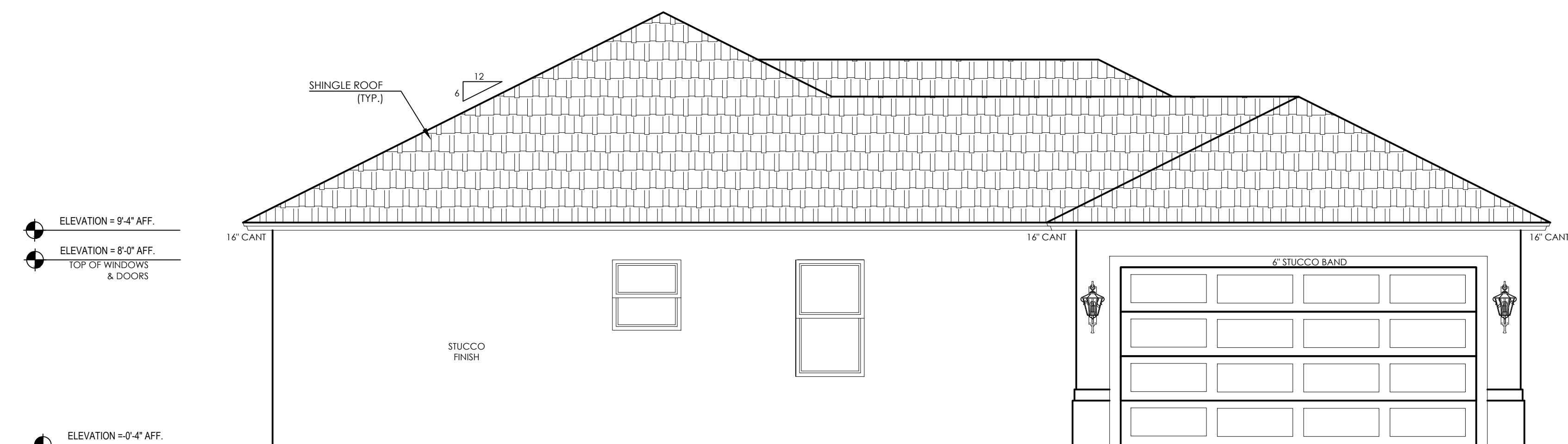
FRONT ELEVATION
SCALE: 1/4" = 1'-0"



REAR ELEVATION
SCALE: 1/4" = 1'-0"



RIGHT ELEVATION
SCALE: 1/4" = 1'-0"



LEFT ELEVATION
SCALE: 1/4" = 1'-0"

WINDLOADCALC.COM

BUILDING INFORMATION		JOB INFORMATION	
Design Wind Speed (mph)	Minimum	Client	Spec Home Parcel #40067160008
Minimum Wind Velocity (mph)	100	Address	27th Ave NE Naples FL 34120
Exposure	B	Company	Quattrone & Associates, Inc.
Roof Slope	12/6	Job Number	17-199
Roof Slope (degrees)	11.31	Project	Spec Home
Windward Exposure (ft)	0.0	Topographic Factor	
Leeward Exposure (ft)	0.0	Hill Slope	File: No Hill
Mean Roof Height (ft)	10.0	Hill Rise	0.0
Roof Slope (ft)	12	Hill Run	0.0
Roof Slope (ft)	6	Hill Rise	0.0
Roof Slope (ft)	12	Hill Run	0.0
Roof Slope (ft)	6	Project along Roof Perimeter (ft)	0.0

ASCE 7-10
Version 7.1
2010 - 2015 ©
Building Permit Edition
Wind Load Program

ZONE	APPLYING WIND LOAD FOR	EFFECTIVE WIND AREA (sqft)	Nominal Wind Load Pressures		NOA Approval Number	Max Pressure Per NOA	Manufacturer	Model Number
			MAXIMUM POSITIVE PRESSURE (psf)	MAXIMUM NEGATIVE PRESSURE (psf)				
DOORS	101	43	25.0	-27.4				
	102	128	23.1	-27.8				
	103	4	27.6	-32.0				
	104	42	25.0	-27.4				
NO.1 WINDOW (ONHANG TYP)	101	16	26.7	-29.1				
	102	16	26.7	-29.1				
	103	16	26.7	-29.1				
	104	23	26.1	-28.5				
	105	10	27.8	-31.0				
	106	8	27.8	-31.0				
	107	8	27.8	-31.0				
	108	24	26.1	-28.5				
	109	16	26.8	-29.1				
	110	16	26.8	-29.1				
	111	16	26.8	-29.1				

11/30/2017 Page1

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• QUATTRONE & ASSOCIATES, INC. AND
• QUATTRONE & ASSOCIATES, INC. ARE
RESPONSIBLE FOR SUPERVISION OF CONSTRUCTION OR
WITHIN 10 DAYS AFTER RECEIPT OF THESE DRAWINGS, AND
INC. OR QUATTRONE & ASSOCIATES, INC. SHALL BE
RESPONSIBLE FOR THE DETAILS AND COSTS OF RECTIFYING
CONTRACTING SHALL STRICTLY ADHERE TO ALL APPLICABLE
BUILDING DEPARTMENT CODES AND AMENDMENTS BY LOCAL
GOVERNMENT.
THE MAXIMUM LIABILITY TO QUATTRONE & ASSOCIATES, INC. AND
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QUATTRONE & ASSOCIATES, INC. SHALL NOT EXCEED THE
AMOUNT PAID TO QUATTRONE & ASSOCIATES, INC. AND
QUATTRONE & ASSOCIATES, INC. AND
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ELECTRICAL LEGEND

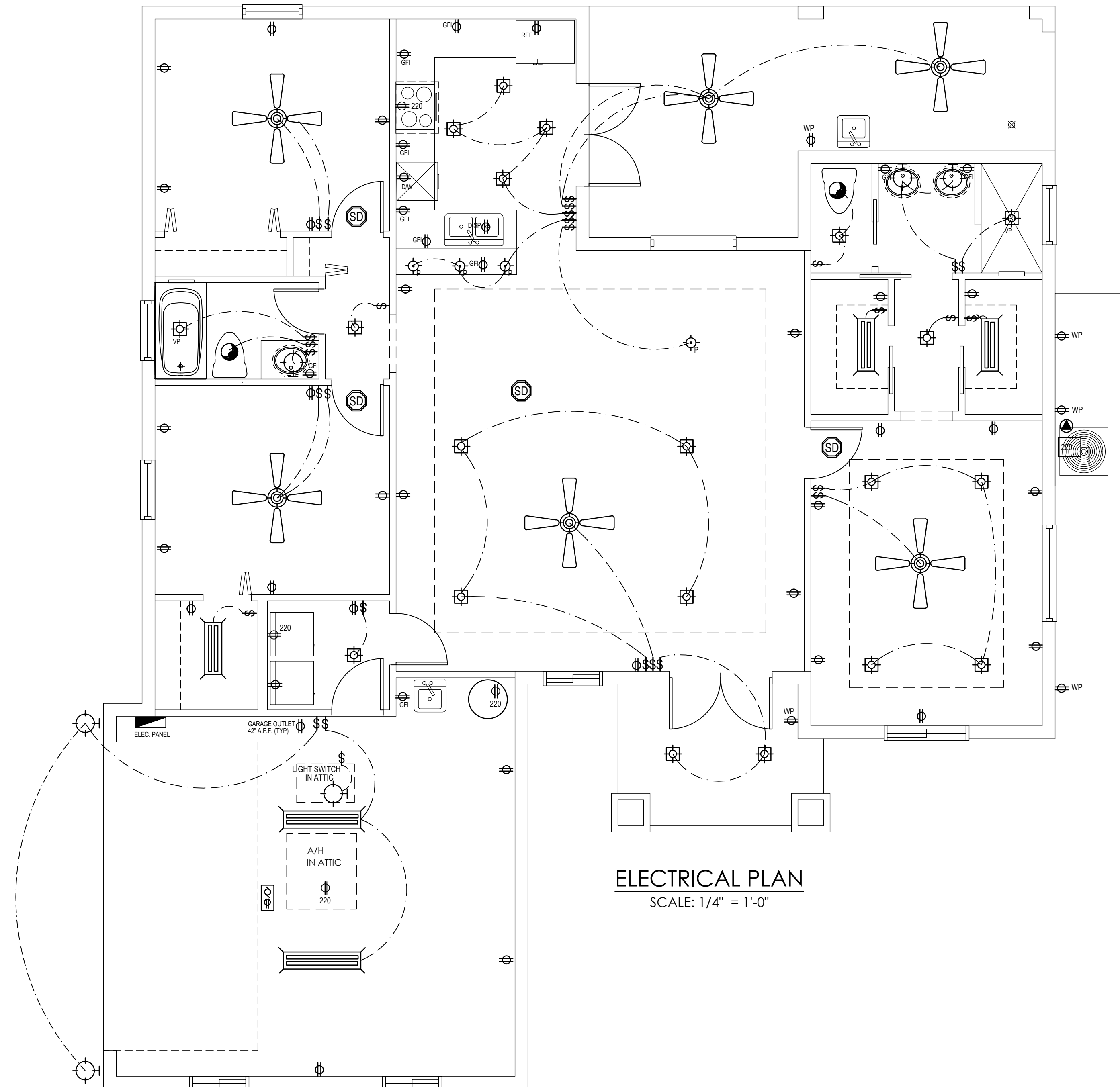
- 110v DUPLEX RECEPTACLE PER CODE
- 220v SIMPLEX RECEPTACLE PER CODE
- 110v GROUND FAULT INTERRUPT DUPLEX RECEPTACLE PER CODE
- 110v HALF HOT SWITCHED DUPLEX RECEPTACLE PER CODE
- GARAGE DOOR OPENER PUSH BUTTON
- GARAGE MOTOR DOOR OPENER
- CABLE T.V.
- SMOKE DETECTOR
- SINGLE POLE SWITCH
- 3-WAY SWITCH
- 4-WAY SWITCH
- TELEPHONE OUTLET
- EQUIPMENT CONNECTOR
- RECESSED CEILING LIGHT FIXTURE
- VAPOR PROOF RECESSED DIRECTIONAL "EYEBALL" RECESSED CEILING LIGHT FIXTURE
- CEILING MOUNTED LIGHT FIXTURE
- UNDER CABINET "HOCKEY PUCK" LIGHT FIXTURE
- WALL MOUNT
- CEILING MOUNTED 2 BULB FLUORESCENT FIXTURE
- SECURITY CAMERA (POWER & VIDEO)
- VP INDICATES VAPOR PROOF FIXTURE
- SECURITY MOTION LIGHT
- WP WATER PROOF
- EXHAUST FAN
- CEILING FAN
- TELEVISION OUTLET 12" AFF TO CNTR.
- ELECTRICAL PANEL
- PENDANT LIGHT
- DISCONNECT FOR A/C

- ELECTRICAL NOTES:**
- 1) RISER DIAGRAM AND ITS INSTALLATION SHALL BE APPROVED AND COORDINATED WITH F.P.&L. (FLORIDA POWER AND LIGHT).
 - 2) ALL INSTALLATIONS SHALL USE MOST STRINGENT GUIDE INCLUDING THOSE SUPPLIED BY F.P.&L. (FLORIDA POWER AND LIGHT).
 - 3) ELECTRICAL CONTRACTOR SHALL CONFORM W/UNITED TELEPHONE SERVICE OR TELEPHONE SERVICE INVOLVED IN THIS CONSTRUCTION
 - 4) COORDINATE INSTALLATION OF ELECTRICAL AND DEVICES W/OTHER TRADES, BEFORE INDIVIDUAL INSTALLATIONS CAN BEGIN (INCLUDING THE A/C SUB CONTRACT.
 - 5) VERIFY ALL OUTLET HEIGHTS (AND THEIR LOCATIONS INCLUDING FLOOR OUTLETS/JACKS) W/INTERIOR DESIGNER AND OTHER INVOLVED DESIGN PARTIES SUCH AS THE CABINET MAKER/OWNER/DEVELOPER/GENERAL CONTRACTOR.

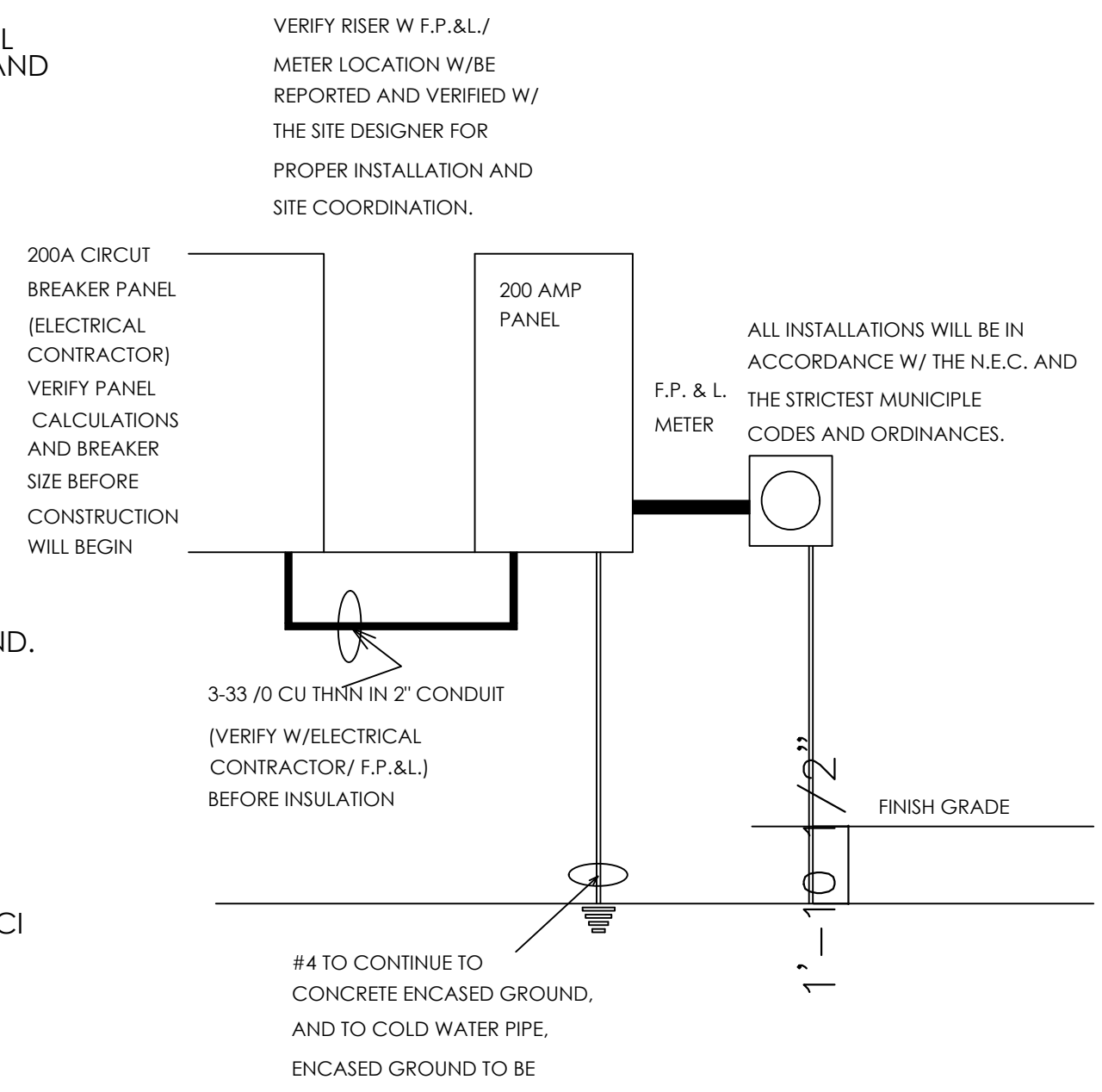
NOTE:
ELECT. CONTRACTOR SHALL VERIFY ALL LOADING (BREAKERS) AND WIRE SIZES BEFORE INSTALLATION WILL BEGIN

PANEL ARRANGEMENT IS FOR DEMONSTRATION PURPOSES ONLY AND ELECTRICAL CONTRACTOR AT HIS/HER DISCRETION MAY PLACE BREAKERS AND LOADS IN A DIFFERENT POSITION.-

- EXAMPLE: OPTIONAL WHIRLPOOL PUMP IS ADDED FOR MASTER BATH. ARRANGE LOADS ON PANEL IN A NEW ARRANGEMENT.**
- 1) MINIMUM WIRE SIZE SHALL BE #14 AWG. INSULATION FOR WIRE SIZE #6 AND SMALLER SHALL BE THWN, #14 AND LARGER SHALL THHN. ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID, #8 AND LARGER SHALL STRANDED (ROMEX MAY BE USED WERE APPROVED).
 - 2) CIRCUIT LOCATION AND LOAD DATA ARE BASED ON INFORMATION GATHERED FROM THE CONTRACTOR. THE ELECTRICIAN SHALL VERIFY ALL DATA BEFORE CONSTRUCTION BEGIN, INCLUDING PANEL SIZE/METER SIZE AND LOCATION/WIRE SIZES AND ALL MECHANICAL EQUIPMENT INC. POOL AND A/C..
 - 3) ALL 120V SINGLE PHASE 15A AND 20A KITCHEN ISLAND AREA/BATHROOMS/EXTERIOR/GARAGE OUTLETS SHALL BE G.F.I.-NOTE: GARAGE AND EXTERIOR OUTLETS SHALL HAVE AN ADDITION TO G.F.I. WATERPROOF COVERS
 - 4) CALCULATIONS ARE BASED ON COPPER CONDUCTORS.
 - 5) ELECT. CONTRACTOR SHALL VERIFY ALL LOADING (BREAKERS) AND WIRE SIZES BEFORE INSTALLATION WILL BEGIN. PANEL ARRANGEMENT IS FOR DEMONSTRATION PURPOSES ONLY AND THE ELECTRICAL CONTRACTOR AT HIS OR HER DISCRETION MAY PLACE BREAKERS AND LOADS IN A DIFFERENT POSITION.



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



ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED ELECTRIC FOR A/C, POOL, WATER AND SECURITY SYSTEMS (IF APPLICABLE)

ELECTRICAL CONTRACTOR SHALL VERIFY ALL TYPES & LOCATIONS W/ G.C. PRIOR TO COMMENCEMENT

VERIFY WITH OWNER TO PRE-WIRE FOR FLOOD, SECURITY LIGHTS.

PROVIDE SMOKE/CARBON MONOXIDE DETECTORS POWERED BY HOUSE ELECTRIC WITH BATTERY MONITORED BACK UP. SHALL BE INSTALLED IN EACH SLEEPING ROOM AND IN THE HALL OR IMMEDIATELY OUTSIDE EACH SLEEPING AREA, AND ON THE HIGHEST CEILING POINT OF EACH ADDITIONAL STORY OF THE RESIDENCE. ALL SMOKE DETECTORS SHALL BE INTER-CONNECTED SO THE ACTIVITY OF ANY ONE DEVICE WILL CAUSE ALL TO SOUND.

NOTE: INSTALL SMOKE/CARBON MONOXIDE DETECTOR COMBOS WITH IN 10 FEET OF BEDROOMS AND A MIN. 3' FROM BATHROOM DOORS AND A.C. RETURNS

NOTE: AFCI PROTECTION IS REQUIRED FOR ALL 125 VOLT, SINGLE PHASE, 15 + 20 AMP RECEPTACLES IN ALL LIVING AREAS BY USING AFCI CIRCUIT BREAKERS OR AFCI RECEPTACLES

NOTE:
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CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY & ALL COSTS RELATED TO CORRECTIONS OF THE PLANS.

RAO Rao Designs, LLC
ANTONIO RAO 239-243-1534
3606 ENTERPRISE AVE #210 NAPLES, FLORIDA 34104
antoniorao1@gmail.com

Q Quattrone & Associates, Inc.
Engineers, Planners, & Development Consultants
4301 Venetia Shoppes Blvd - Fort Myers, Florida 33916 - 238-886-5222
Certificate of Authorization Number: 9465

IF ANY ERRORS OR OMISSIONS EXIST IN THESE DRAWINGS OR ANY PART THEREOF, THE ENGINEER OR ARCHITECT SHALL BE RESPONSIBLE FOR CORRECTING THEM. THE CONTRACTOR SHALL STRICTLY ADHERE TO ALL APPLICABLE CODES AND ORDINANCES AND AMENDMENTS BY LOCAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL INFORMATION PROVIDED BY THE CLIENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES.

REVISIONS: DATE:

△	x.
△	x.
△	x.
△	x.

Drawn	CHECK BY
AR	AQ
11-13-2017	17-199

1/4" = 1'-0"

SPEC HOME
SINGLE FAMILY RESIDENCE
Parcel No. 40067160008
27TH AVENUE NE
NAPLES FL 34120

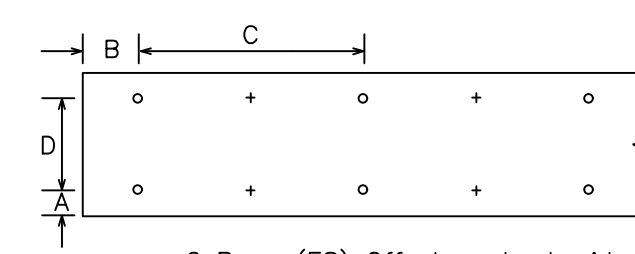
APPROVED
THIS STRUCTURE MEETS ALL REQUIREMENTS OF THE 2014 FL. BUILDING CODES

ALFRED J. QUATTRONE
FLORIDA P.E. #52741

THU, 11-30-2017 12:19 PM
PLOTTED BY: ANTONIO

Fastener Clearances for Multi-Ply Members

FASTENER TYPE	A		B		C		D	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
10d & 16d NAILS	2"	2"	6"	4"	12"	4"	24"	3"
BOLTS & SCREWS	2"	4"	12"	4"	24"	3"		

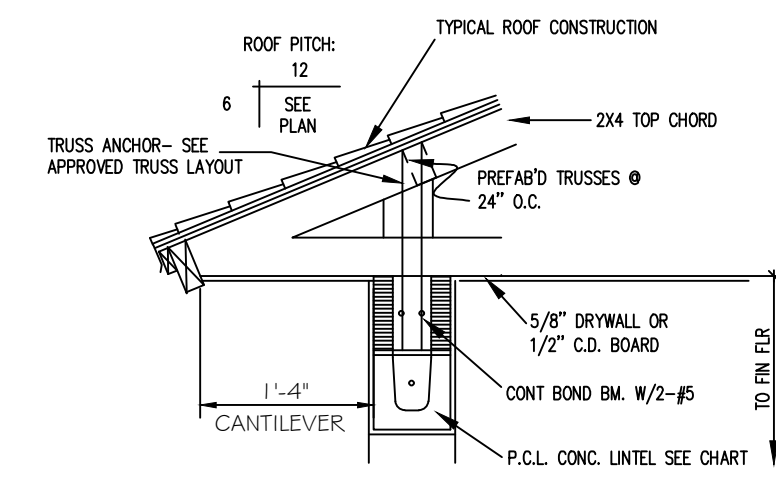


Note: Edge Distances also apply to beams only fastened on one side.

COLUMN SCHEDULE	
COLUMN	COLUMN DESCRIPTION
C-1	(3) 2X4 NO. 2 SYP GANGSTUD COLUMN -BASE CONNECTION TO CONCRETE: SIMPSON HTS5 -TOP CONNECTION TO HEADER: (2) SIMPSON HTS20 TWST STRAPS
C-2	(4) 2X4 NO. 2 SYP GANGSTUD COLUMN -BASE CONNECTION TO CONCRETE: SIMPSON HTS5 -TOP CONNECTION TO HEADER: (2) SIMPSON HTS20 TWST STRAPS
WOOD BEAM SCHEDULE	
BEAM	WOOD BEAM DESCRIPTION
WB-1	(2) 2"x12" NO. 2 SYP AND (1) 5/8" PLYWOOD FLITCH PLATE
WB-2	

REACTIONS AND UPLIFTS

#	TRUSS CONNECTIONS AS SHOWN		(WOOD)	
	REACTION	UPLIFT	CONECTOR	NOTES
①		0-1450	META20	CONCRETE
②		1450-1810	HETA20	CONCRETE
③	0-5140	0-2000	HHUS28-2	HANGER
④		1450-2900	2-HTS20	WOOD
⑤		1810-3620	2-HETA20	CONC
⑥		0-1450	HTS20	WOOD
⑦	0-890	0-585	U26	HANGER
⑧	0-3335	0-1550	HUS26	HANGER
⑨	0-5,140	0-2000	HHUS28-2	HANGER
⑩	6,968	-2,868	2-HETA20	CONC



TYP END DETAIL

ROOF TYPE SHINGLE ROOF

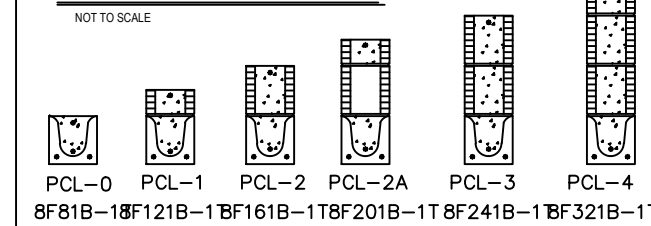
DESIGN CRITERIA	
WIND DESIGN METHOD	(ASCE7-10)
M.W.F.R.S. / C-C - HYBRID WIND	
COMPONENTS AND CLADDING	
ULTIMATE WIND SPEED	160 M.P.H.
NOMINAL WIND SPEED	124 M.P.H.
EXPOSURE CATEGORY	"B"
RISK CATEGORY	2
MEAN HEIGHT	15'-0"
OPENING CONDITIONS	
PARTIALLY ENCLOSED	
ENCLOSED BUILDING	
OPEN BUILDING	
ROOF LIVE LOAD L/360	
ROOF DEAD L/240 (SUPPORTING PLASTER CLG.)	

BEAM SCHEDULE FOR OPENINGS						
LABEL	OPENING	SIZE	T/R	I/R	B/R	STIRRUPS
B.B.M.	PERIMETER	8X8 1-COURSE	(1) No.5 ROD	CONTINUOUS		NOT REQUIRED
PCL-1	VARIABLES					REFER TO SPECIFIC LINTEL ENGINEERING FROM LINTLE MANUFACTURER.
PCL-2	VARIABLES					REFER TO SPECIFIC LINTEL ENGINEERING FROM LINTLE MANUFACTURER.
PCL-3	VARIABLES					REFER TO SPECIFIC LINTEL ENGINEERING FROM LINTLE MANUFACTURER.
PCL-2A	VARIABLES					REFER TO SPECIFIC LINTEL ENGINEERING FROM LINTLE MANUFACTURER.

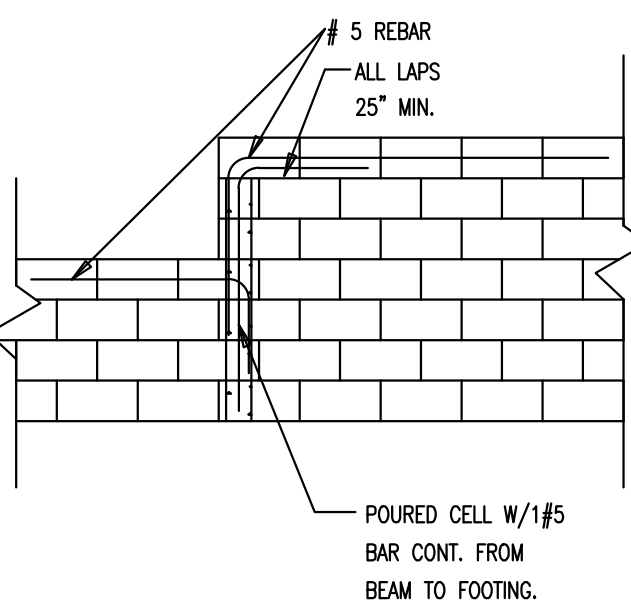
T/R = TOP REINFORCEMENT
I/R = INTERMEDIATE REINFORCEMENT
B/R = BOTTOM REINFORCEMENT

NOTE: TOP BEAM REINFORCEMENT OVER ALL OPENINGS (IN ADDITION TO THAT REQUIRED FOR THE BASIC WALL TO BEAM) SHALL EXTEND A MINIMUM OF 16 INCHES PAST THE EDGE OF THE OPENING .

CAST CRETE LINTEL PROFILES

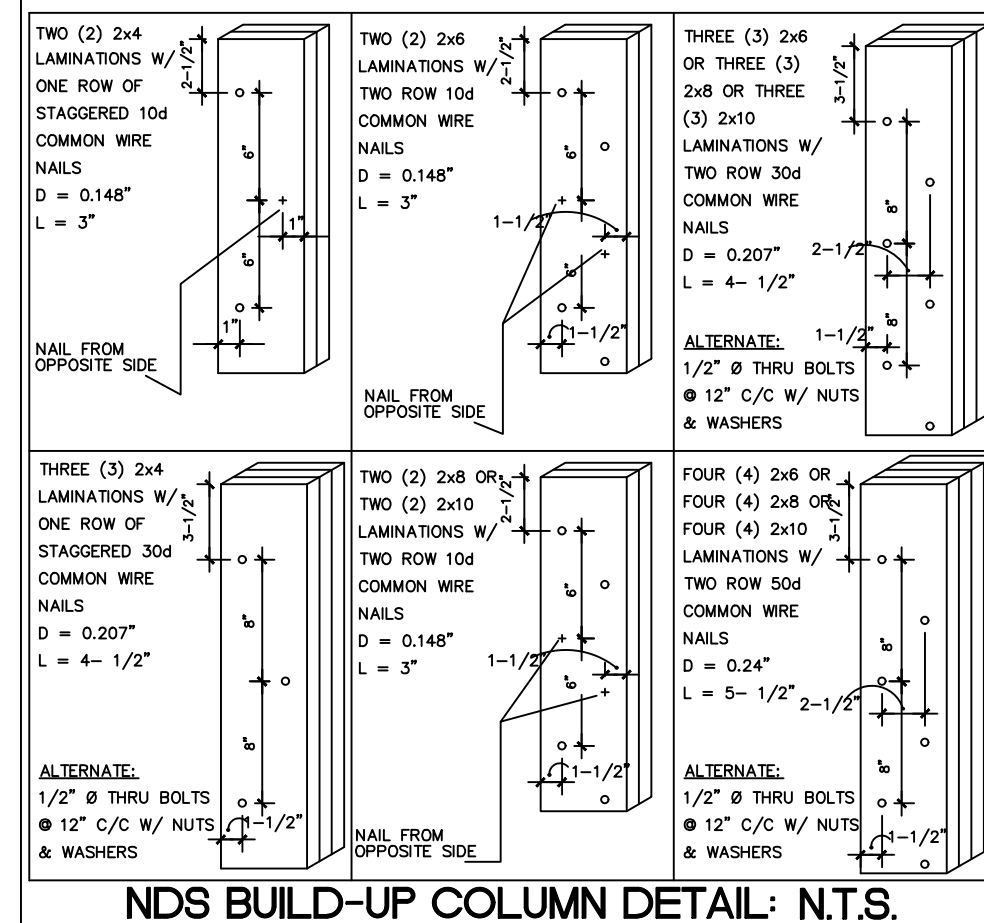


FOR ALL DESIGNATIONS AND FURTHER DETAILS SEE CAST CRETE DESIGN GUIDE CURRENT EDITION. SEE PLAN FOR LOCATIONS. NOT ALL DESIGNATIONS MAY BE USED ON THIS DRAWING SET.

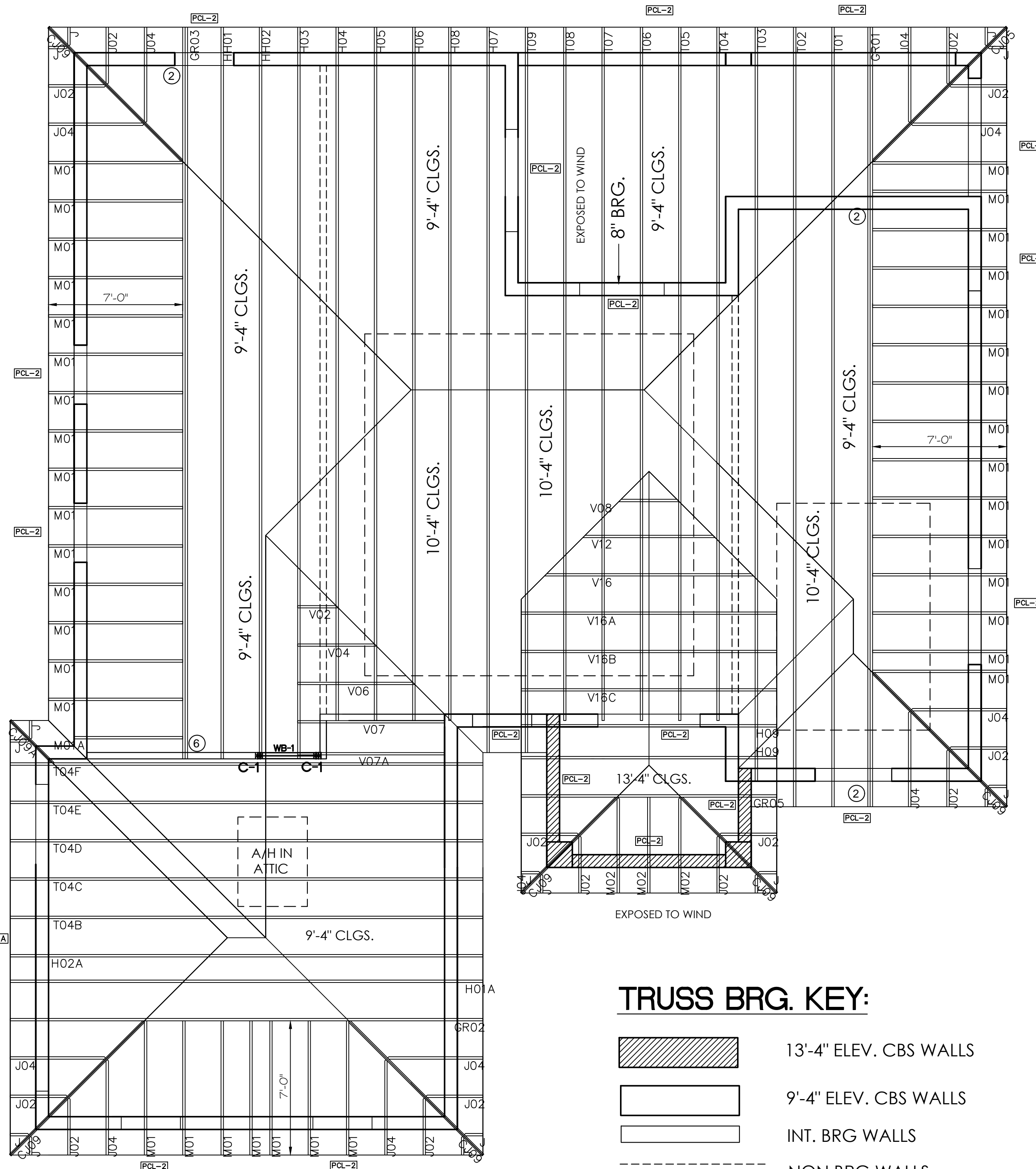


BUILD-UP COLUMN NOTES:

- ADJACENT NAILS ARE DRIVEN FROM OPPOSITE SIDES OF THE COLUMN.
- ALL NAILS TO PENETRATE AT LEAST 3/4 OF THICKNESS OF LAST PENETRATION.
- 150 O.C. SPACE BET. ROWS OF NAILS O.C. 180
- 200 O.C. SPACE BET. ROWS OF NAILS O.C. 200
- 100 O.C. SPACE BET. ROWS OF NAILS O.C. 200
- 50 O.C. EDGE DIST. O.C. 200
- 2 OR MORE LONGITUDINAL ROWS OF NAILS ARE PROVIDED WHEN $d > 3$ in.
- D = NAIL DIAMETER
- d = DEPTH (FACE WIDTH) OF INDIVIDUAL LAMINATIONS
- t = THICKNESS OF THINNEST LAMINATION
- WHEN ONE ROW OF NAILS ARE REQUIRED, ADJACENT NAILS SHALL BE STAGGERED
- WHEN ONE ROW OF NAILS ARE REQUIRED, ADJACENT NAILS SHALL BE STAGGERED
- WHEN THREE OR MORE LONGITUDINAL ROWS OF NAILS ARE USED, NAILS IN ADJACENT ROWS SHALL BE STAGGERED
- WHEN BORED HOLES ARE DESIRED TO PREVENT SPLITTING OF WOOD, THE DIAMETER OF THE HOLE SHALL NOT EXCEED 70% OF NAIL DIAMETER FOR SOUTHERN PINE.
- THESE DETAILS REPRODUCED FROM NDS SPECIFICATIONS 2005 EDITION



THE ENGINEER HAS CONSIDERED AND TAKEN IN CONSIDERATION THE GRAVITY AND UPLIFT LOADS AS PER CUSTOM MADE HOME COMPONENTS, JOB # 17-199 DATED 11-13-17 INTO THE DESIGN OF THIS STRUCTURE.



TRUSS BRG. KEY:

- 13'-4" ELEV. CBS WALLS
- 9'-4" ELEV. CBS WALLS
- INT. BRG WALLS
- NON BRG WALLS

NOTES:

- ALL REACTIONS OVER 5000# AND ALL UPLIFTS THAT EXCEED 1000# ARE LISTED ON THIS LAYOUT
- TRUSS BRACING SEE ENGINEERING DRAWINGS FOR TRUSS BRACING SPECIFICATIONS BY TRUSS MANUFACTURER. INCLUDING T, LATERAL BRACING AND RIDGE BRACING. (I.E. HIP CATS)
- INTERIOR BEARING WALLS STUDS SHALL BE @ MAX. 16" O.C. W/ 2" X BOTTOM PLATES (P.T. @ CONC.) AND DOUBLE TOP PLATES. SEE PLANS FOR LUMBER GRADES. BOTTOM PLATES AND LOWER TOP PLATES SHALL BE NAILED TO EACH STUD W/ 2-16d OR 4-8d TOENAILS. THE UPPER TOP PLATE SHALL BE NAILED TO THE LOWER TOP PLATE W/ 2 ROWS 10d NAILS @ 16" O.C. WALLS SHALL BE PROVIDED WITH CONTINUOUS MIDPOINT 2" X BLOCKING EQUALLY SPACED @ 4'-0" MAXIMUM NAILED W/ 2-16d NAILS OR 4-8d TOENAILS TO EACH STUD. OFFSET JOINTS IN TOP PLATES AT LEAST 24" (JOINTS OVER STUDS). ADDING 3-10d NAILS AT ENDS OF JOINT.
- HEADERS IN INTERIOR BEARING WALLS HEADERS SHALL BE MINIMUM 2-2"x6" WITH 1/2" PLYWOOD SPACER, NAILED W/ 2 ROWS 16d NAILS @ 16" O.C. STAGGERED EACH PLY. PROVIDE MINIMUM 3" BEARING EACH END OF HEADER. ATTACH HEADER TO JACK STUDS W/ 1-SIMPSON LSTA18 EACH STUD TO HEADER. SEE PLANS FOR HEADER.

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Quattrone & Associates, Inc.
Engineers, Planners, & Development Consultants
4301 Veneta Shemaker Blvd. - Fort Myers, Florida 33916 - 238-886-5222
Certificate of Authorization Number: 8465

IF ANY ERRORS OR OMISSIONS EXIST IN THESE DRAWINGS OR ANY PART THEREOF, THE ENGINEER, ARCHITECT, CONTRACTOR, OR ANY OTHER PARTY SHALL BE RESPONSIBLE FOR THE SAME. THE CONTRACTOR SHALL STRICTLY ADHERE TO ALL APPLICABLE CODES AND REGULATIONS AND SHALL BE RESPONSIBLE FOR THE RESULTS AND COSTS OF RECTIFYING ANY ERRORS OR OMISSIONS.

THE MAXIMUM LIABILITY TO QUATTRONE & ASSOCIATES, INC. SHALL BE LIMITED TO THE AMOUNT OF THE FEE RECEIVED BY QUATTRONE & ASSOCIATES, INC. FOR THE PROFESSIONAL SERVICES PROVIDED BY QUATTRONE & ASSOCIATES, INC.

REVISIONS: DATE:

1	x
2	x
3	x
4	x

Drawn: AR
CHECK BY: AQ
11-13-2017
File: 17-199

1/4" = 1'-0"

SPEC HOME SINGLE FAMILY RESIDENCE
Parcel No. 40067160008
27TH AVENUE NE
NAPLES FL 34120

APPROVED
THIS STRUCTURE MEETS ALL REQUIREMENTS OF THE 2014 FL. BUILDING CODES

ALFRED J. QUATTRONE
FLORIDA P.E. #52741

THU 11-30-2017 12:20 PM
PLOTTED BY: ANTONIO

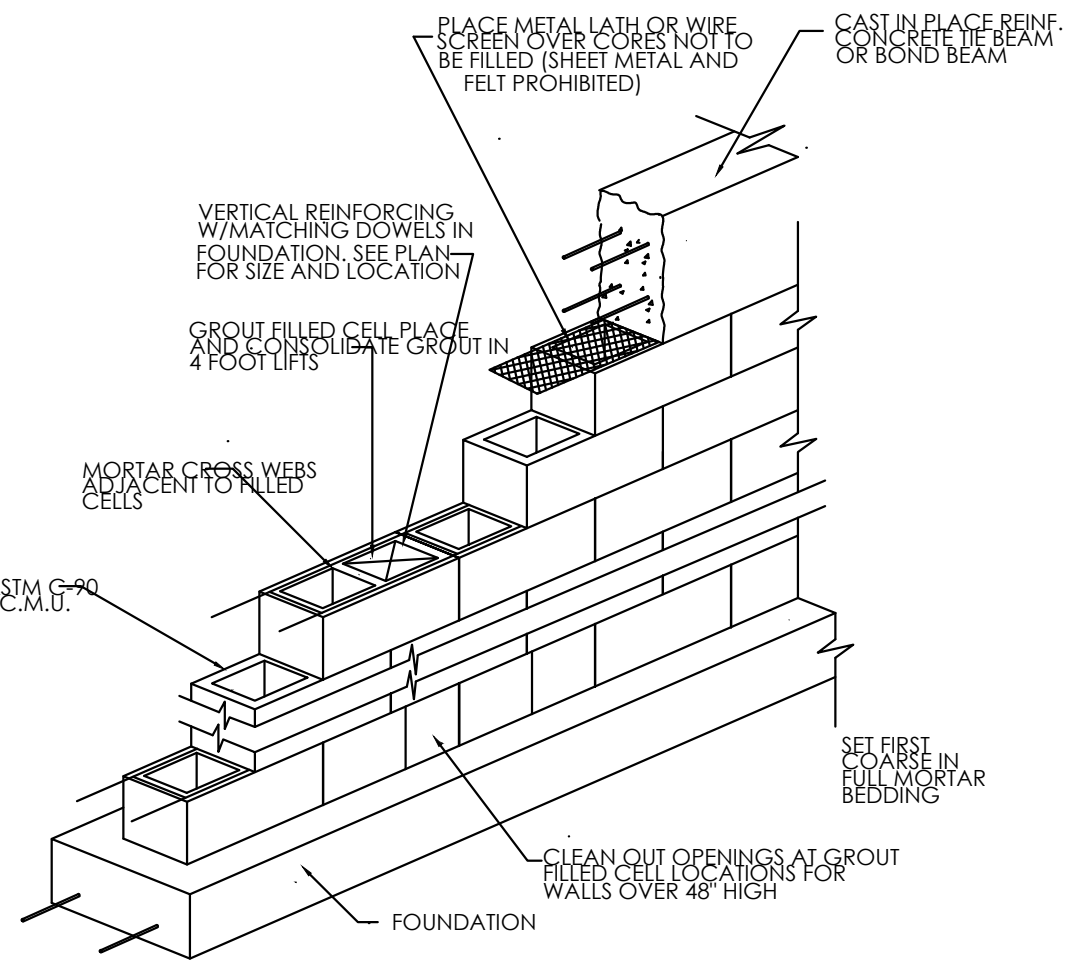
S-2

RAO

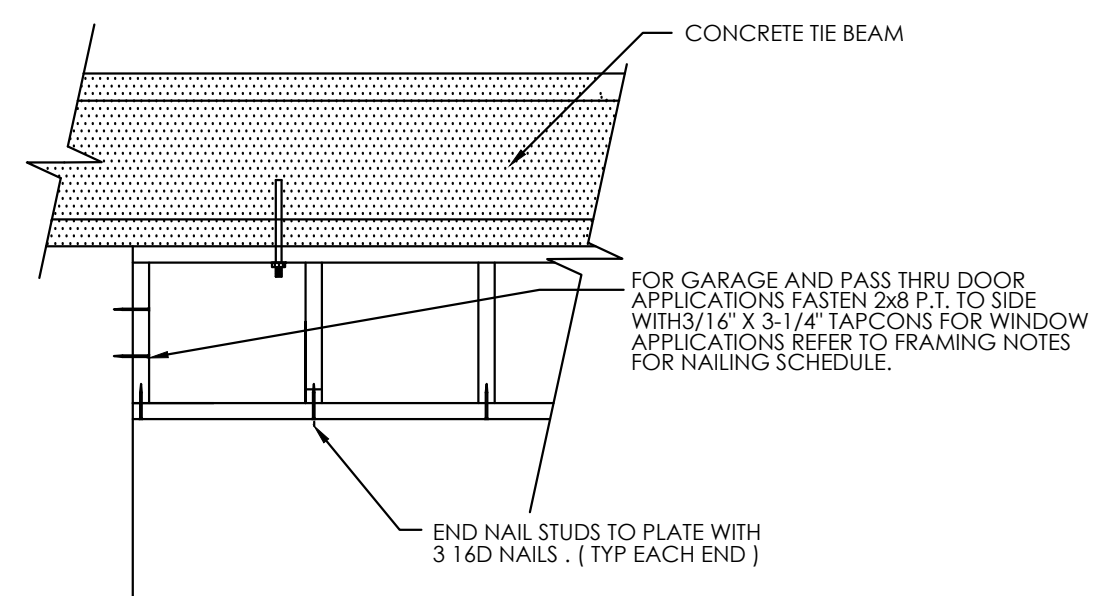
Rao Designs, LLC
ANTONIO RAO 239-243-1534
3606 ENTERPRISE AVE #10 NAPLES, FLORIDA 34104
antoniorao1@gmail.com

RAO DESIGNS, LLC HEREBY RESERVES ITS COMMON LAW COPYRIGHT. THIS DOCUMENT IS THE PROPERTY OF RAO DESIGNS, LLC. IT IS TO BE REPRODUCED OR CHANGED AND OR COPIED WITHOUT OBTAINING THE EXPRESSED WRITTEN CONSENT FROM RAO DESIGNS, LLC.

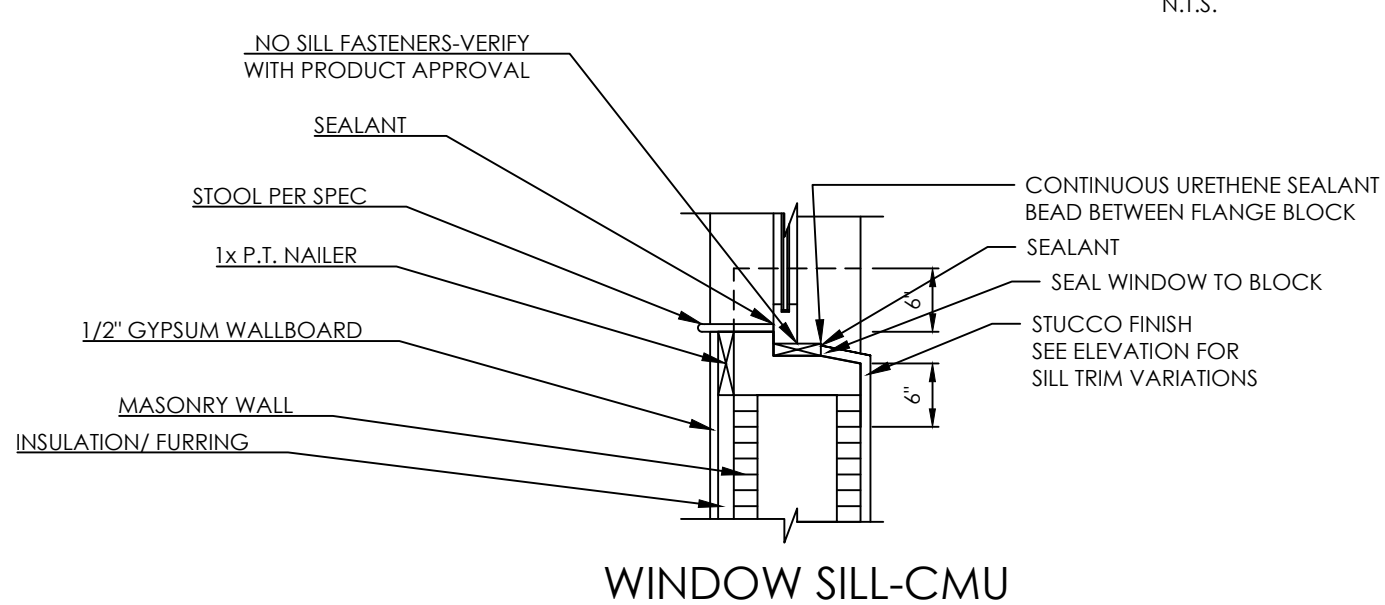
- FRAMING NOTES:**
- 1.) FOR WINDOW AND DOOR ATTACHMENT TO MASONRY USE BUCK IN BED OF LIQUID NAIL TO MASONRY SIDE AND TOP OF OPENING WITH 1" 3/4" x .097" POWER DRIVEN T-NAIL OR 3/16" x 2-1/4" TAPCONS. START AT 4" THEN 8" ON CENTER. ATTACH WINDOW IN ACCORDANCE WITH WINDOW MANUFACTURER'S SPECIFICATIONS.
 - 2.) FOR WINDOW ATTACHMENT TO FRAME USE MINIMUM (4) 8D NAILS PER EDGE. THEN 12" ON CENTER MAXIMUM.
 - 3.) FOR DOOR ATTACHMENT TO FRAME USE No. 8 x 3" STEEL SCREWS. (2) AT HEADER, (3) AT LOCK SIDE AND (2) MINIMUM EACH HINGE.
 - 4.) CONTRACTOR AND OR SUB-CONTRACTOR TO REVIEW THE TRUSS PLACEMENT PLAN TO COORDINATE.



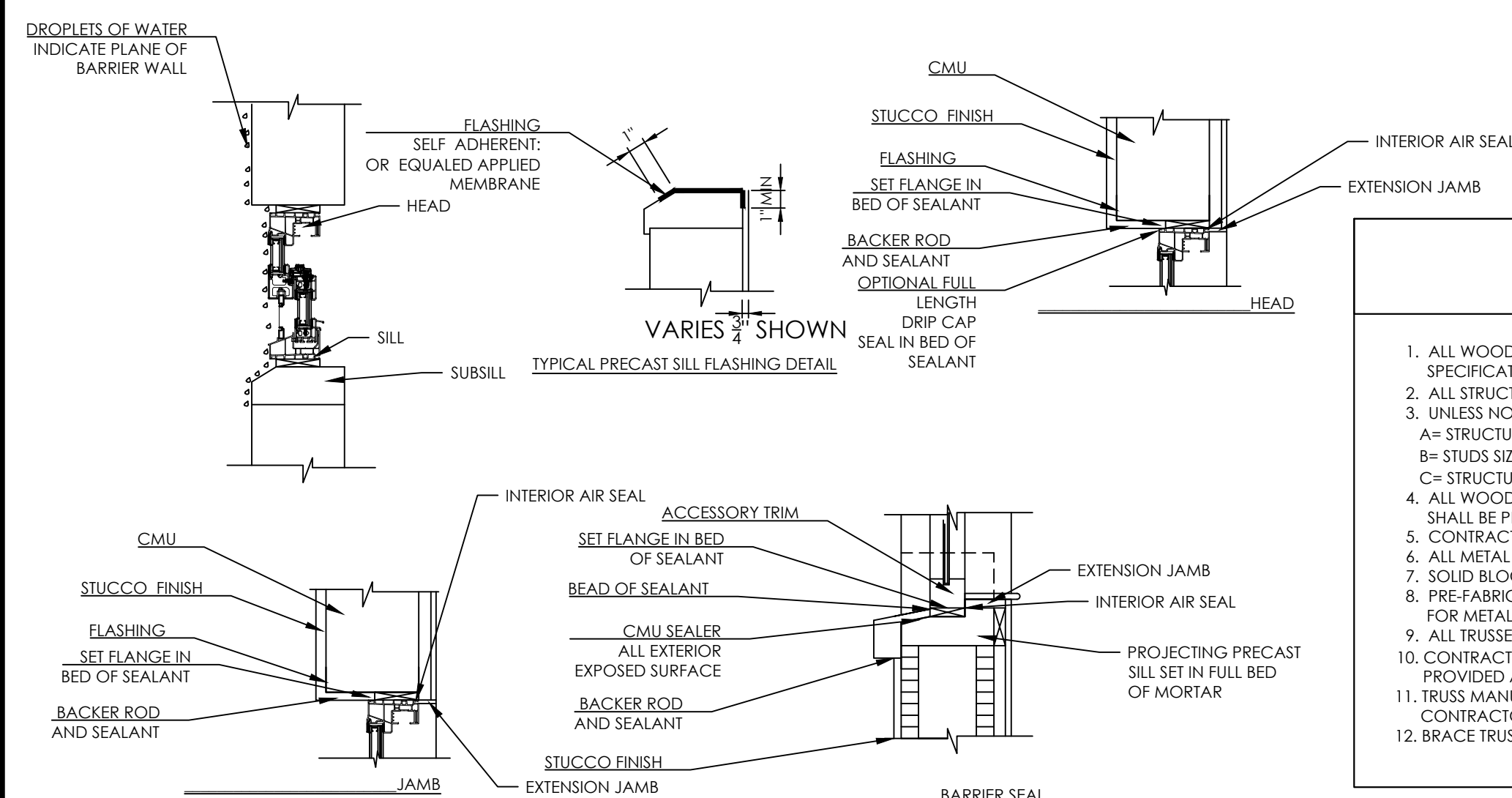
TYP. MASONRY WALL CONSTRUCTION



SPACE FRAMING OVER GARAGE AND PASS THRU DOORS



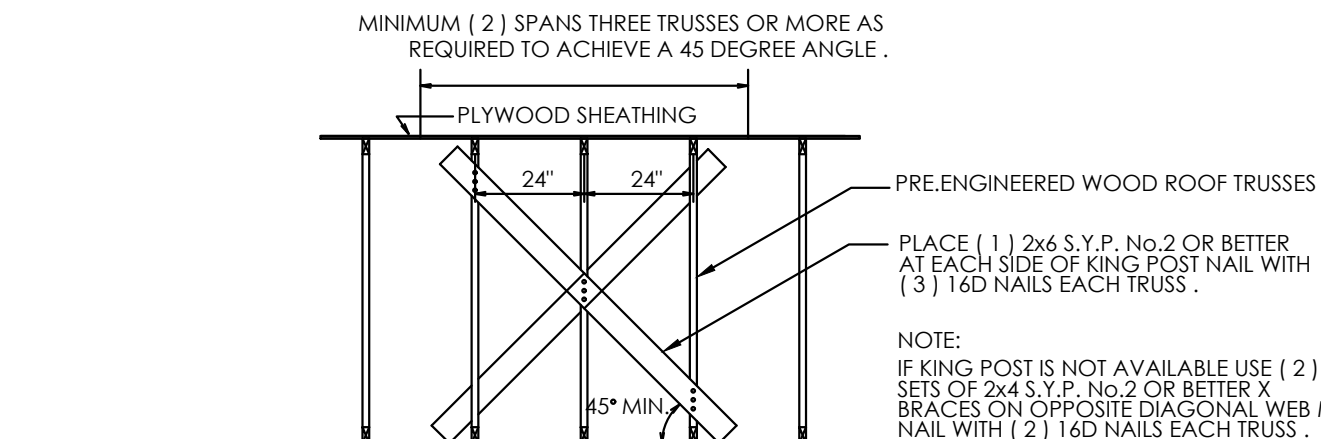
WINDOW SILL-CMU



DESIGNED TO MEET THE REQUIREMENTS OF FBC 14 SECTION R 703.08 FLASHING

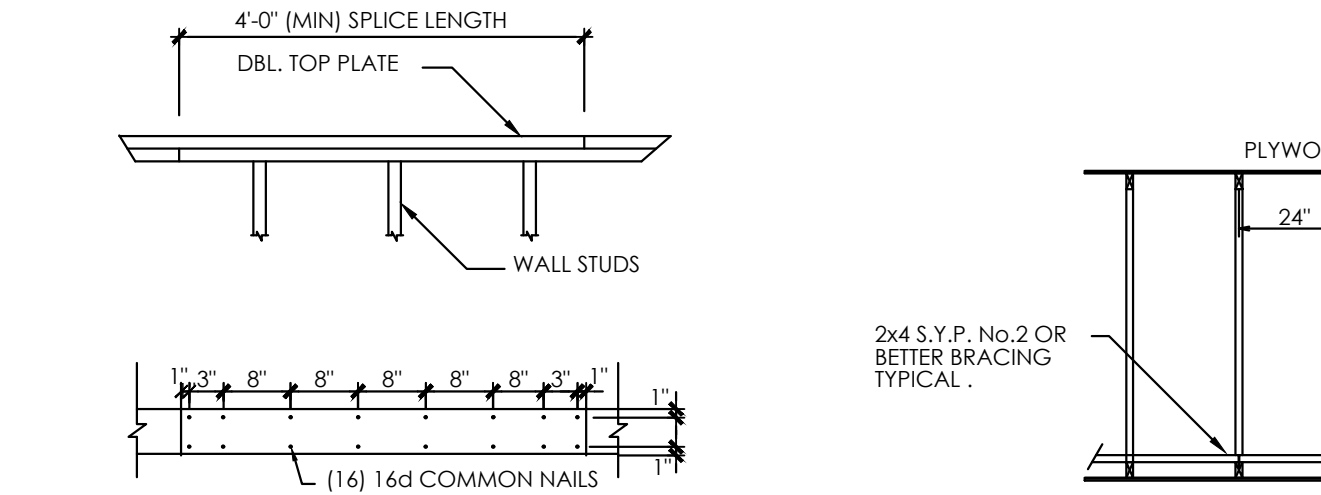
DECORATIVE ARCH FRAMING DETAIL

N.T.S.



INTERMEDIATE TRUSS BRACING

N.T.S.



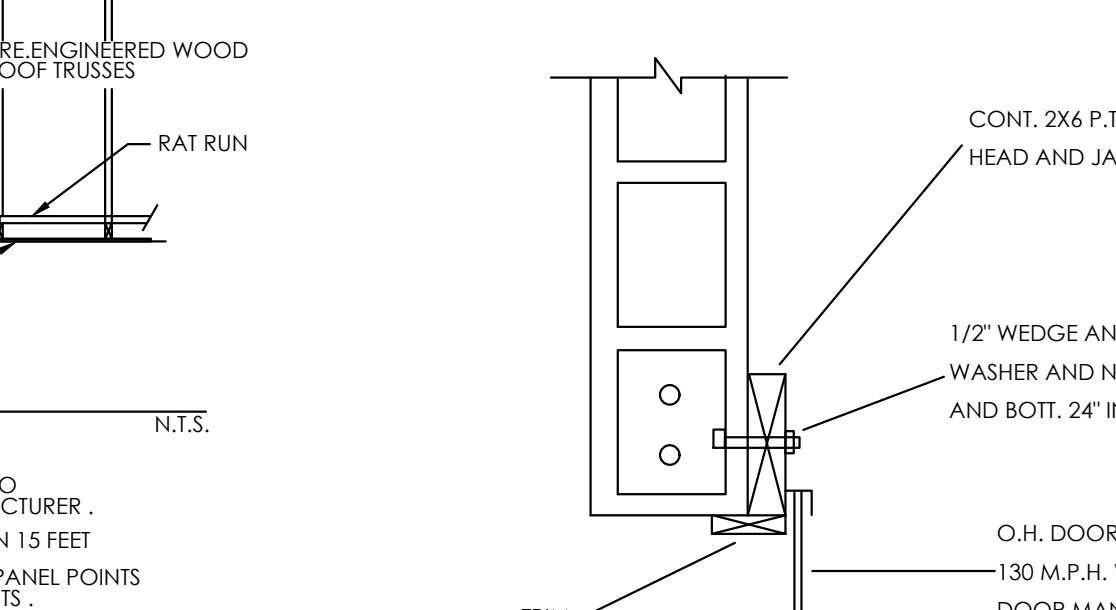
ROOF SHEATHING LAYOUT

N.T.S.



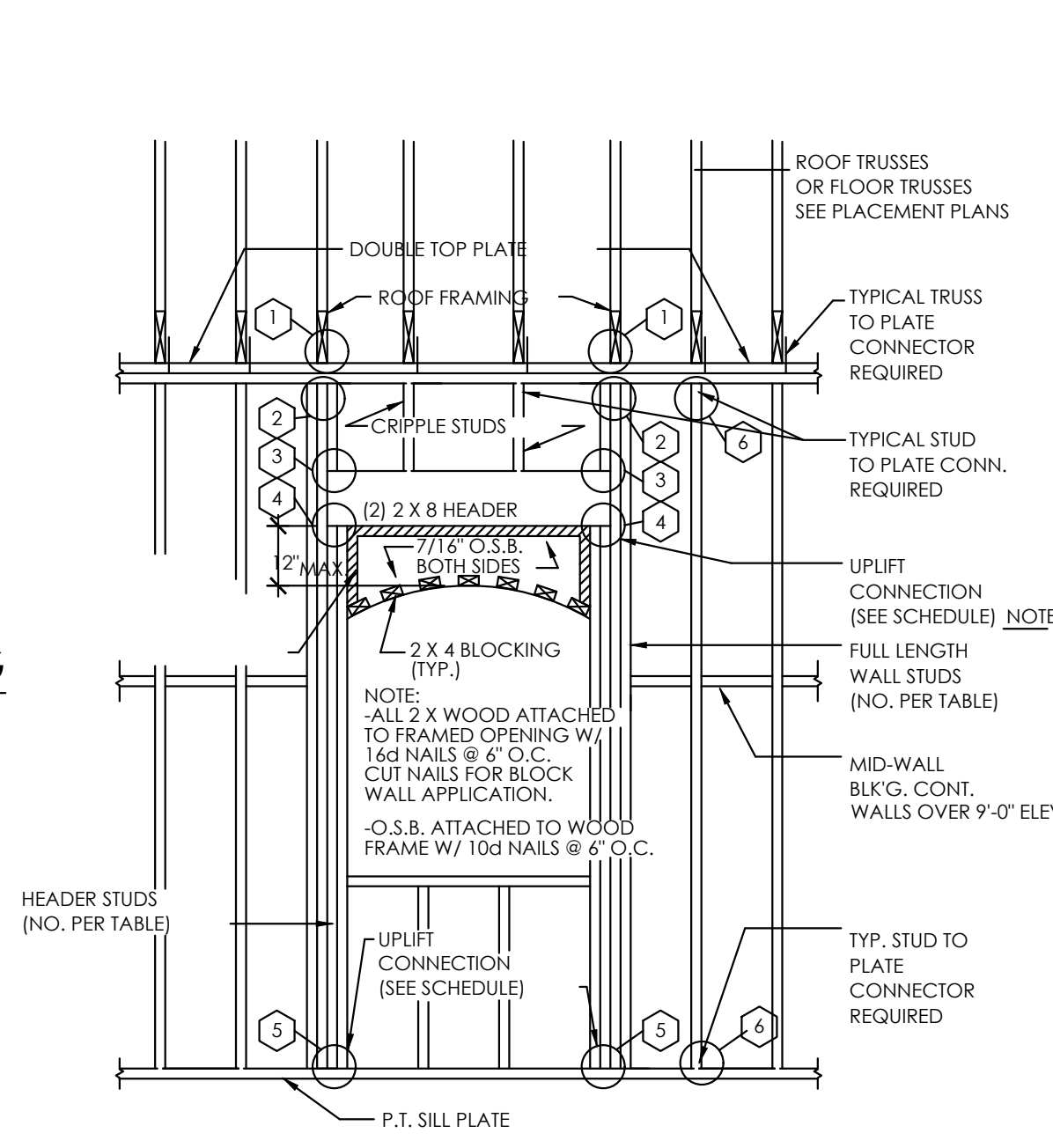
WOOD FRAME SPICING DETAIL

N.T.S.



GARAGE DOOR BUCK DETAIL

N.T.S.



FRAMING NOTES

1. ALL WOOD FRAMING SHALL BE FABRICATED AND INSTALLED PER AISC AND TPI AND NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION.
2. ALL STRUCTURAL WOOD MEMBERS SHALL HAVE A MIN. EXTREME FIBER STRESS IN BENDING (Fb)=1,200 P.S.I.
3. UNLESS NOTED OTHERWISE THE FOLLOWING MIN. LUMBER GRADES SHALL BE USED:
A= STRUCTURAL LIGHT FRAMING SIZE 2" TO 4" THICK X 2" TO 4" WIDE #2 OR BETTER.
B= STUDS SIZE 2" TO 4" THICK X 2" TO 6" WIDE-STUD GRADE.
C= STRUCTURAL JOISTS AND PLANKS SIZE 2" TO 4" THICK X 5" AND WIDER #2 OR BETTER.
4. ALL WOOD MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY, CONCRETE OR SOIL SHALL BE PRESSURE-TREATED.
5. CONTRACTOR SHALL PROVIDE ALL FASTENING DEVICES NECESSARY AND SUITED FOR EACH APPLICATION.
6. ALL METAL CONNECTORS AND FABRICATIONS SHALL COMPLY WITH AISC SPECS.
7. SOLID BLOCK ALL JOISTS AND RAFTERS AT POINTS OF SUPPORT.
8. PRE-FABRICATED TRUSSES SHALL COMPLY WITH NFPA FOR WOOD CONSTRUCTION, TPI DESIGN SPECS. FOR METAL PLATE CONNECTED WOOD TRUSSES AND AISC 100.
9. ALL TRUSSES SHALL BE DESIGNED AND CERTIFIED BY TRUSS MANUF. ENGINEER.
10. CONTRACTOR SHALL CORRELATE W/TRUSS MANUF. TO ENSURE ADEQUATE BEARING IS PROVIDED AT END REACTIONS OF ALL GIRDER TRUSSES.
11. TRUSS MANUF. SHALL SUBMIT SHOP DRAWINGS TO CONTRACTOR AND DESIGNER FOR REVIEW. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND VERIFICATION.
12. BRACE TRUSSES DURING ERECTION AND AFTER PERMANENT INSTALLATION TO COMPLY WITH TPI BWT-76.

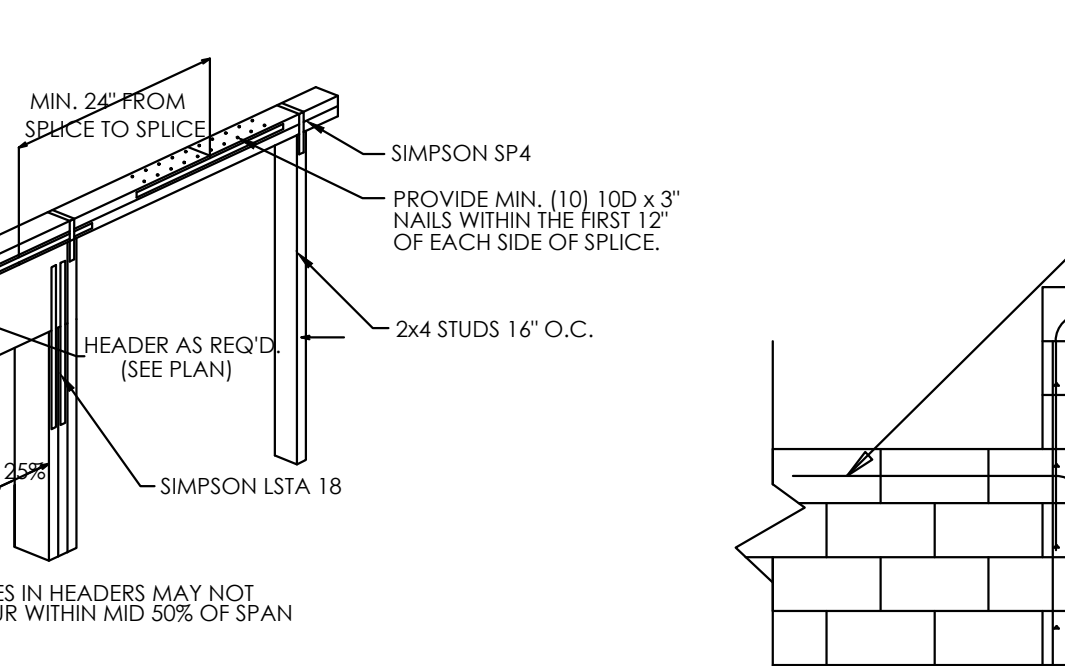
FOR LOAD BEARING OPENINGS

TYP. FRAMING AND CONNECTIONS

- | | |
|--|--|
| 1) SEE TRUSS PLAN FOR SPECIFIC TRUSS ANCHORING | 4) 1-LSTA18 E/STUD |
| 2) 1-LSTA12 E/STUD | 5) 1-SPH4 OR AS NOTED PER STUD TYPICAL |
| 3) 1-LSTA12 E/STUD | 6) SPH4 OR AS NOTED |

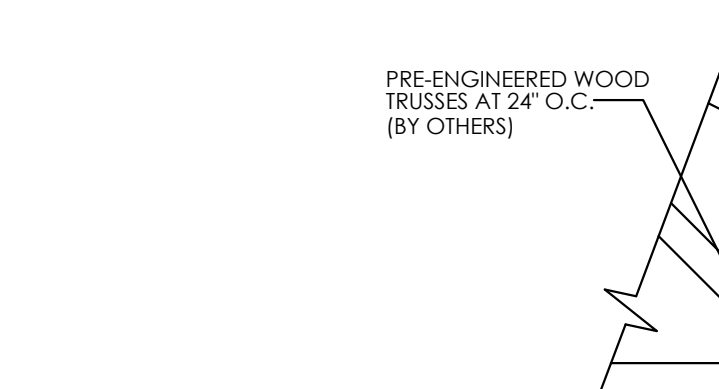
EXPOSED CEILING ATTACHMENT DETAIL

N.T.S.

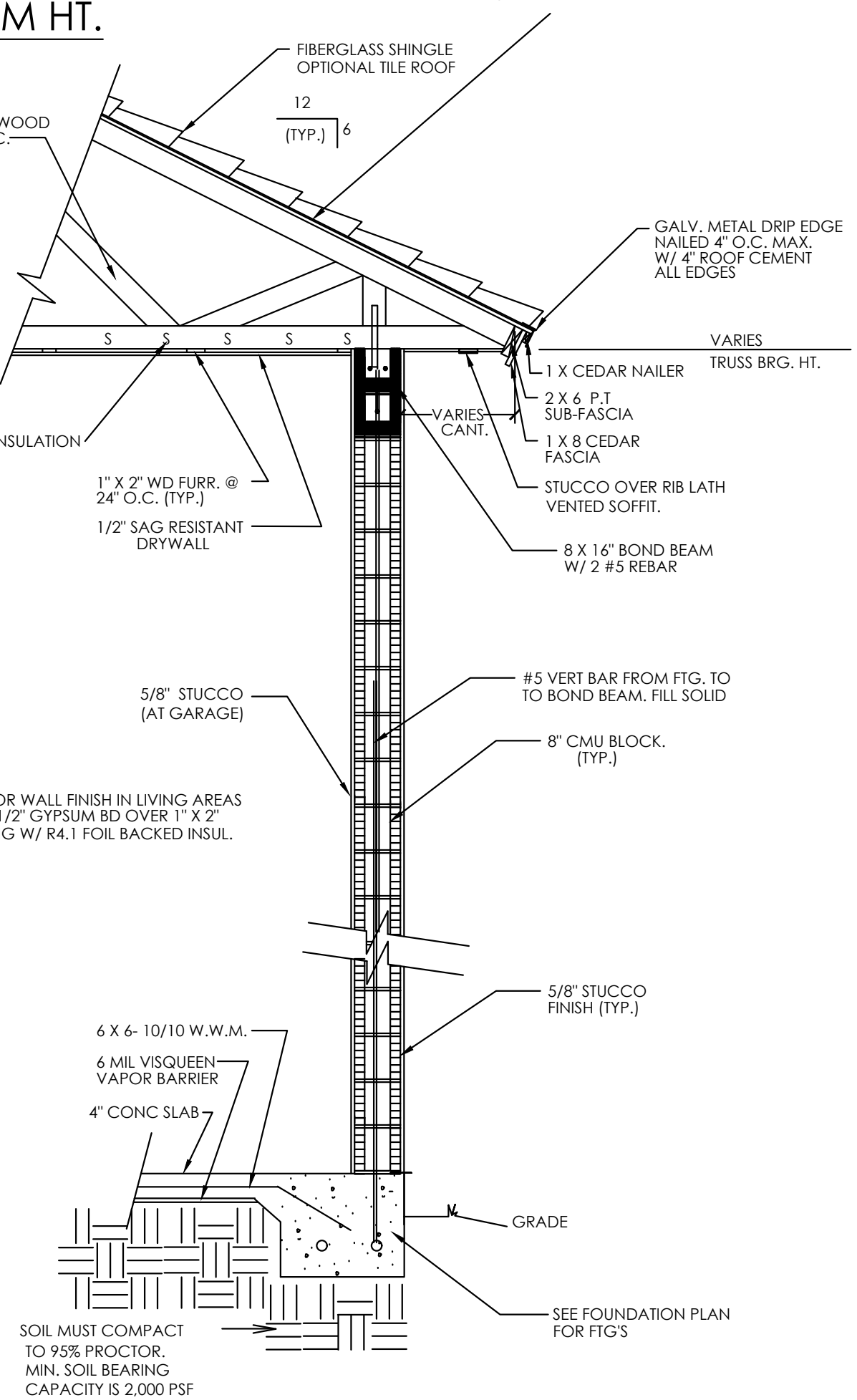


CHANGE OF TIE BEAM HT.

N.T.S.



ROOFING TO COMPLY AND BE IN ACCORDANCE W/ FBC 2014 GAF 3 TAB 25 YR. FUNGUS RESISTANT SHINGLE SELF SEAL OR INTERLOCK. ASTM D225. W/4-3/4\"/>



TYPICAL WALL SECTION

N.T.S.

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4301 Veneta Shores Blvd - Fort Myers, Florida 33916 - 239-936-5222
Certificate of Authorization Number: 9465
• QUATTRONE & ASSOCIATES, INC. AND ANY SUBSIDIARIES SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THIS PROJECT.
• CONTRACTOR SHALL CORRELATE W/TRUSS MANUF. TO ENSURE ADEQUATE BEARING IS PROVIDED AT END REACTIONS OF ALL GIRDER TRUSSES.
• CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO CONTRACTOR AND DESIGNER FOR REVIEW. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD DIMENSIONS AND VERIFICATION.
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REVISIONS: DATE:

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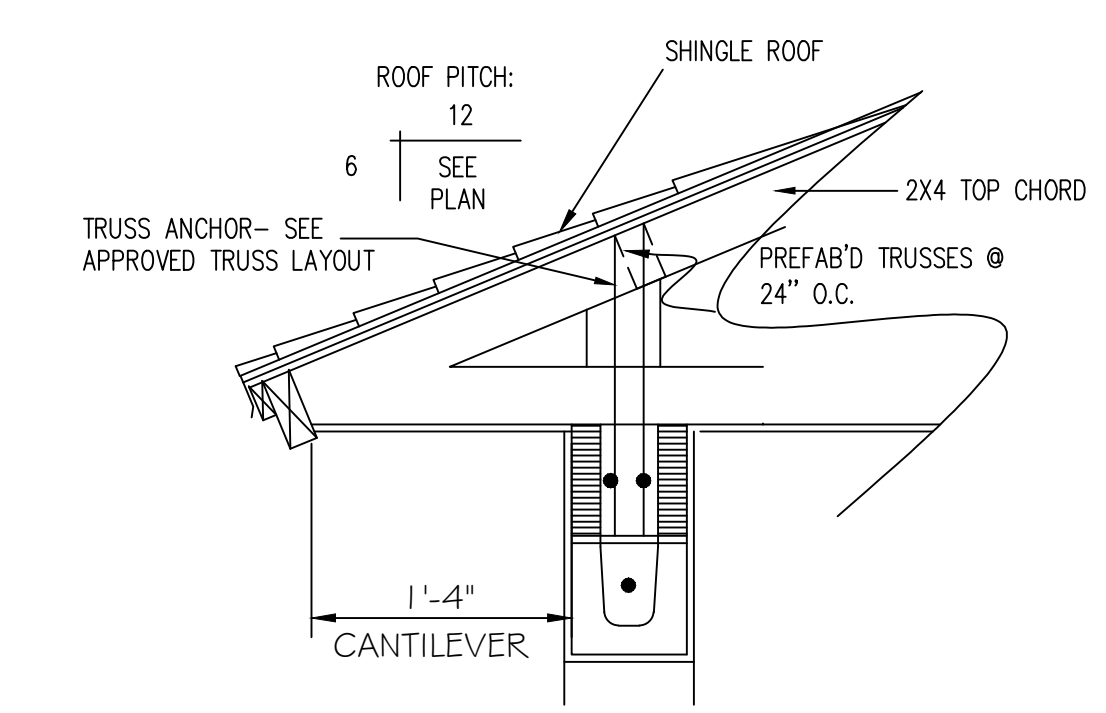
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ALFRED J. QUATTRONE
FLORIDA P.E. #52741
THU, 11-30-2017 12:20 PM
PLOTTED BY: ANTONIO

S-3

ONLY TRUSS TO GIRDER TRUSS CONNECTIONS PROVIDED BY BUILDER CMHC. ALL OTHER TRUSS CONNECTIONS PROVIDED BY BUILDER	QTY	SIMPSON
	(A)	HUS26 *
	X	HUS28
	X	HHUS26
	(B)	HHUS28
	(C)	HHUS28-2
(D)	U26	
X		
* ALL HANGERS SHOWN ARE HUS26 UNLESS OTHERWISE NOTED		



TYP END DETAIL

BUILDING CODE

FBC 2014

LOAD CONDITIONS

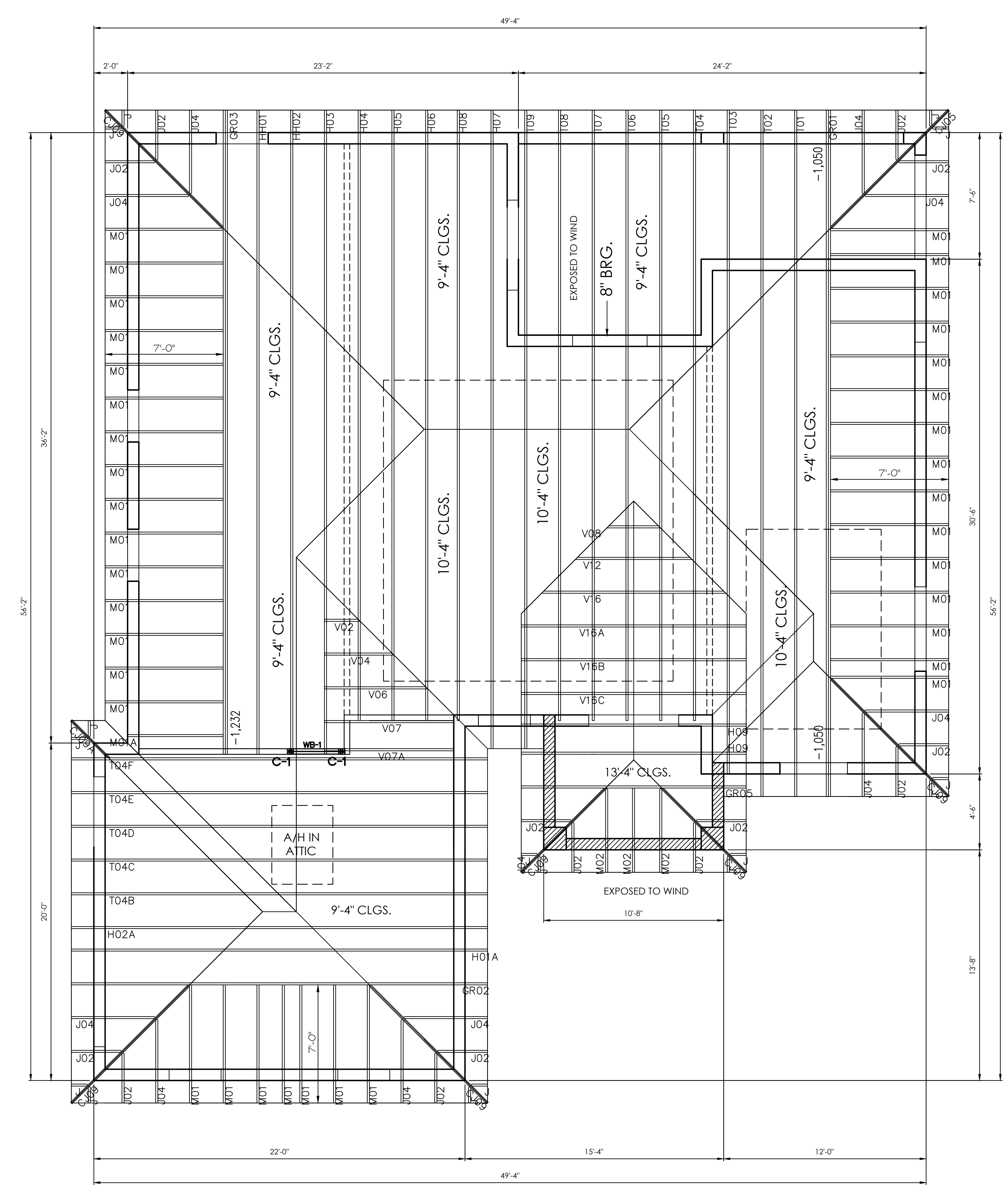
OCCUPANCY CATEGORY: RESIDENTIAL
 EXPOSURE CATEGORY: B
 WIND DESIGN METHOD: ASCE 7-10
 OPENING CONDITIONS: ENCLOSED
 INTERNAL PRESSURE COEFFICIENT +/- 0.18
 WIND SPEED: 160 MPH
 MEAN HEIGHT 15 FT.

ROOF

CHORD	LIVE	DEAD	TOTAL	DEAD LOAD TO BESET UPRT
	LB / SQ.FT. (PSF)			
TOP	20	20	40	5
BOTTOM	0	10	10	5
TOTAL	20	30	50	10

FLOOR

CHORD	LIVE	DEAD	TOTAL
TOP	30	15	45
BOTTOM	0	10	10
TOTAL	30	35	55



TRUSS BRG. KEY:

- 13'-4\"/>
- 9'-4\"/>
- INT. BRG WALLS
- NON BRG WALLS

ROOF TYPE
SHINGLE ROOF

DESIGN CRITERIA	
WIND DESIGN METHOD	(ASCE7-10)
M.W.F.R.S. / C-C- HYBRID WIND	<input checked="" type="checkbox"/>
COMPONENTS AND CLADDING	<input type="checkbox"/>
ULTIMATE WIND SPEED	160 M.P.H.
NOMINAL WIND SPEED	124 M.P.H.
EXPOSURE CATEGORY	"B"
RISK CATEGORY	2
MEAN HEIGHT	15'-0"
OPENING CONDITIONS	
PARTIALLY ENCLOSED	<input type="checkbox"/>
ENCLOSED BUILDING	<input checked="" type="checkbox"/>
OPEN BUILDING	<input type="checkbox"/>
ROOF LIVE LOAD L/360	
ROOF DEAD L/240 (SUPPORTING PLASTER CLG.)	

CONTRACTOR TO VERIFY DIMENSIONS AND DETAILS SPECIFICATIONS SHOWN. VERIFY LOCATION AND WEIGHTS OF A/H'S UPON ACCEPTING, SIGNING & APPROVING LAYOUT

BY SIGNING THIS LAYOUT YOU ARE AGREEING TO OUR INTERPRETATION OF THE BLUEPRINT GIVEN TO US. ANY CHANGES FROM THIS LAYOUT, BY REVISIONS TO THE BLUEPRINT OR BY NOT REVIEWING THE LAYOUT IN DETAIL ARE SOLELY THE RESPONSIBILITY OF THE BUILDER.

CUSTOM HOME MADE COMPONENTS, INC. WILL BEGIN TO ENGINEER THIS JOB. AT THIS POINT ANY BLUEPRINT CHANGES BY BUILDER ARE AT THE BUILDER'S EXPENCE.

APPROVED BY: _____ DATE: _____ DEL. DATE: _____

FINAL LAYOUT PRELIMINARY LAYOUT

ALL UPLIFTS AND DOWN LOADS EXCEEDING MAX LIMITS EXCEEDING BELOW WILL BE NOTED ON LAYOUT AS SHOWN ON LEFT

MAX UPLIFT = 1,000#
 MAX REACTION = 3,500#

TO: SPEC HOME

JOB: 27TH AVENUE NE NAPLES FL 34120

JOB # 17-199

PITCH	TC: 6/12	CANT: 1'-4"	SEE DETAILS FOR ELEVS UNLESS NOTED ALL TRUSSES 24" O.C. UNLESS NOTED
	BC: 0	TC: 2x4	

DR. BY: RG DATE: 11/13/17 SCALE: 1/4" = 1'-0"

CUSTOM MADE HOME COMPONENTS
 Trusses Built to Last
 Phone (941) 698-0011
 Fax (941) 698-0022