

GENERAL NOTES

1. THE CONTRACTOR AND ALL SUB CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE OWNER OF ANY DISCREPANCY. THE CONTRACTOR AND SUBCONTRACTORS SHALL VERIFY DRAWINGS AND DIMENSIONS SHOWN ON THE STRUCTURAL WITH RELATED REQUIREMENTS ON THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WITHIN 10 DAYS RECEIPT OF DRAWINGS.
2. FLOOR AND WALL OPENINGS: SLEEVES, VARIATION IN STRUCTURAL SLAB ELEVATIONS, DEPRESSED AREA SAND ALL OTHER ARCHITECTURAL, MECHANICAL, ELECTRICAL AND CIVIL REQUIREMENTS MUST BE COORDINATED BEFORE CONTRACTOR PROCEEDS.
3. IN ALL CASES WHERE A CONFLICT MAY OCCUR SUCH AS BETWEEN ITEMS COVERED BY SPECIFICATIONS AND NOTES ON THE DRAWINGS, OR BETWEEN GENERAL NOTES AND SPECIFIC DETAILS THE OWNER SHALL BE NOTIFIED AND HE WILL INTERPRET THE INTENT OF THE CONTRACT DOCUMENTS.
4. DETAILS NOTED AS TYPICAL SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE.
5. WHERE NO SPECIFIC DETAIL IS SHOWN THE FRAMING OR CONSTRUCTION SHALL BE IDENTICAL SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT.
6. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF 6TH EDITION (2017) FLORIDA BUILDING CODE.
7. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON STRUCTURAL DRAWINGS.
8. THE PRECISE DIMENSIONS AND LOCATIONS OF DOORS AND WINDOWS OPENINGS SHALL BE DETERMINED FROM ARCHITECTURAL PLANS AND DETAILS COORDINATED WITH OWNERS SELECTIONS AND MANUFACTURERS SPECS OTHER WALL AND FLOOR OPENINGS SHALL BE ALSO REQUIRED BY MECHANICAL, ELECTRICAL OR SIMILAR REQUIREMENTS SHALL BE VERIFIED FROM SHOP DRAWINGS, EQUIPMENT DATA, DIMENSIONS, ETC., AS REQUIRED.

STRUCTURAL NOTES.-

FOUNDATIONS.-
THE FOUNDATIONS ARE DESIGNED FOR ALLOWABLE SOIL BEARING PRESSURE OF 2000 POUNDS PER SQUARE FOOT FILL MATERIAL UP TO FINISH GRADE SHALL BE PLACED WITH MAXIMUM LIFTS OF 12 INCHES. SUBGRADE AND EACH LIFT OF MATERIAL SHALL BE COMPACTED TO 95 PROCTOR DENSITY DETERMINED IN ACCORDANCE WITH ASTM D-1557.

CONCRETE.-
CONCRETE SHALL ACHIEVE A STRENGTH AT 28 DAYS OF 3000 PSI FOR FOOTINGS SLABS ON GRADE, AND GROUDED MASONRY CELLS, TIE BEAMS AND C.I.P. SLABS SHALL BE 40-3000 PSI. CONCRETE SHALL BE A MIX DESIGNED BY A RECOGNIZED TESTING LABORATORY AND SHALL BE PLACED, CURED AND TESTED ACCORDING TO ACI AND ASTM STANDARDS AND SPECIFICATIONS.

FORMWORK AND SHORING.-
STRUCTURAL CONCRETE SHALL NOT BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO-THIRDS OF THE 28 DAY DESIGN STRENGTH. ERECTION AND REMOVAL OF ALL FORMWORK SHORES AND RESHORES SHALL MEET THE REQUIREMENTS OF THE ACI STANDARDS AND SPECIFICATIONS.

REINFORCING STEEL.-
TO BE ASTM GRADE 60 DEFORMED BARS FREE FROM OIL AND RUST STEEL SHALL BE BENT AND PLACED ACCORDING TO THE ACI STANDARDS AND SPECIFICATIONS. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. #5 BARS SHALL BE LAPPED 2'-0" U.N.O.

WELDED WIRE FABRIC (WWF).-
TO CONFORM TO ASTM A-185 FREE FROM OIL AND RUST AND SHALL BE PLACED ACCORDING TO THE ACI STANDARDS AND SPECIFICATIONS. MINIMUM LAP SHALL BE ONE FOOT.

MISC STEEL.-
ALL NEW STEEL TO BE ASTM A-36 STRUCTURAL STEEL, 36 KSI MIN CONNECTIONS PER MIN. CONNECTIONS PER AISC STANDARDS DETAILS. BOLTS TO BE ASTM A307, WELDED TO BE PER AWS SPEC.

MASONRY WALLS.-
8" HOLLOW MASONRY UNITS SHALL MEET ASTM C-90 FOR LOAD BEARING TYPE MASONRY. MORTAR SHALL BE TYPE "M" OR "S" AND MEET C-270. GROUT SHALL BE 3000 PSI FEA GRAVEL CONCRETE AND MEET ASTM C-476. PROVIDE HOOKED DOWELS IN FOOTINGS FOR ALL VERTICAL REINFORCING ABOVE LAP SPICES TO BE A MINIMUM 2'-1". EXTEND VERTICAL REINFORCING INTO HIGHEST CONCRETE BEAM ABOVE. MASONRY BLOCK CELLS AT WALL ENDS, CORNERS, INTERSECTIONS AND ADJACENT TO OPENINGS SHALL BE GROUT FILLED WITH ONE #5 VERTICAL REINFORCING BAR. TIE BEAMS SHALL BE POURED AFTER THE MASONRY BLOCK WALLS BELOW ARE IN PLACE CONFINED CONCRETE IN THE TIE BEAMS TO AREA REQUIRED. DO NOT USE SOLID METAL OR FELT CAVITY CAPS. MASONRY WALLS BELOW THE SOIL LINE SHALL HAVE GALVANIZED #9 GAUGE TRUSS TYPE HORIZONTAL JOINT REINFORCEMENT AT EACH COURSE AND WALLS ABOVE THE SOIL LINE SHALL HAVE THE HORIZONTAL JOINT REINFORCING SPACED AT 16" ON CENTER.

PENETRATIONS.-
NO PENETRATIONS OR OPENINGS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS OR WITHOUT PREVIOUS APPROVAL OF THE ENGINEER.

WOOD.-
WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PROTECTED OR PRESSURE TREATED IN ACCORDANCE WITH AITC-109.

APPLICABLE CODES

6TH EDITION (2017) FLORIDA BUILDING CODES
6TH EDITION (2017) FLORIDA BUILDING CODE: RESIDENTIAL
2014 NFPA-70 NATIONAL ELECTRICAL CODE

PROJECT INFORMATION

ALLOWED	PROVIDED
• OCCUPANCY/ CLASSIFICATION	RESIDENTIAL R-3
• TYPE OF CONSTRUCTION:	TYPE V (B) - UNSPRINKLERED.
• BUILDING AREA:	TOTAL UNDER ROOF: 2,026 SF.
• HEIGHT OF BUILDING:	13'-2" MEAN HEIGHT OF ROOF
• BUILDING HEIGHT IN STORIES:	1 STORY PROVIDED
• FLOOD ZONE:	---
• DESIGN CRITERIA - BASIC WIND SPEED: WIND IMPORTANCE FACTOR (Iw): BUILDING CATEGORY: EXPOSURE CATEGORY:	100 MPH 1.0 LOW-RISE BUILDING, ENCLOSED C



SINGLE FAMILY RESIDENCE

"66TH AVE NE"

NAPLES, FL

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- A-5 ROOF PLAN
- A-6 DETAILS

ELECTRICAL

- E-1 ELECTRICAL PLAN, SCHEDULES & NOTES

REV.	DESCRIPTION

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PROJ. NAME: **SINGLE FAMILY RESIDENCE "66TH AVE NE"**
NAPLES, FL

DESCRIPTION: **COVER SHEET**

DATE: **JANUARY 20, 2020**

RDA CONSULTING ENGINEERS, L.L.C.
CERTIFICATE OF AUTHORIZATION NUMBER: 31149
3606 ENTERPRISE AVE.
PHONE: 239.302.3280 FAX: 239.302.3281

CERTIFY THAT THESE PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE BUILDING CODE REQUIREMENTS

RODNEY DE AZA
FLORIDA PE # 78411



DuPont Flashing Systems PHYSICAL PROPERTIES DATA SHEET

PROPERTIES	DUPONT™ FLEXWRAP™ MF	DUPONT™ FLEXWRAP™ RW	DUPONT™ FLASHING TAPE
Face Sheet	Micro-crossed, polyethylene laminate (white)	Elastomeric polyethylene laminate (white)	Polypolyene film
Adhesive**	Butyl Rubber (black)	Butyl Rubber (black)	Butyl Rubber (black)
Thickness	64 mil (1,626 micron)	70 mil (1,775 micron)	20 mil (507 micron)
Release Liner	1 piece, heavy-duty siliconized paper for 6-inch width product; 2 piece, heavy-duty siliconized paper for 9-inch width product	Custom-designed, multi-piece, heavy-duty siliconized paper	1 piece heavy-duty siliconized paper
Dimensions	6- or 9-inch width x 75 feet length	9-inch width x 6-inch length custom flanged piece	4, 6, or 9-inch width x 100 feet length
Applications	Round top or custom shaped windows, 3-D all protection, wall interruptions: i.e. dryer vents, hose bibs. Suitable for use on substrates where fasteners cannot be applied.	Corner pieces for all and head of recessed windows. Available in integral or double-stud versions.	Jambe and heads of rectangular windows and doors.

PROPERTIES	DUPONT™ STRAIGHTFLASH™	DUPONT™ STRAIGHTFLASH™ VF
Face Sheet	Spunbonded polyethylene laminate (white)	Spunbonded polyethylene laminate (white)
Adhesive**	Butyl rubber (black)	Transposed dual sided adhesive for continuous integration; Butyl rubber (black)
Thickness	30 mil (762 micron)	30 mil (762 micron)
Release Liner	2 piece, heavy-duty siliconized, scored release paper	2 piece, heavy-duty siliconized, scored release paper
Dimensions	4-inch width x 100 feet length 9-inch width x 125 feet length	6-inch width x 125 feet length
Applications	Jambe and heads of rectangular windows	Brick mold, non-integral flanged and non-flanged rectangular windows and doors.

Performance Testing

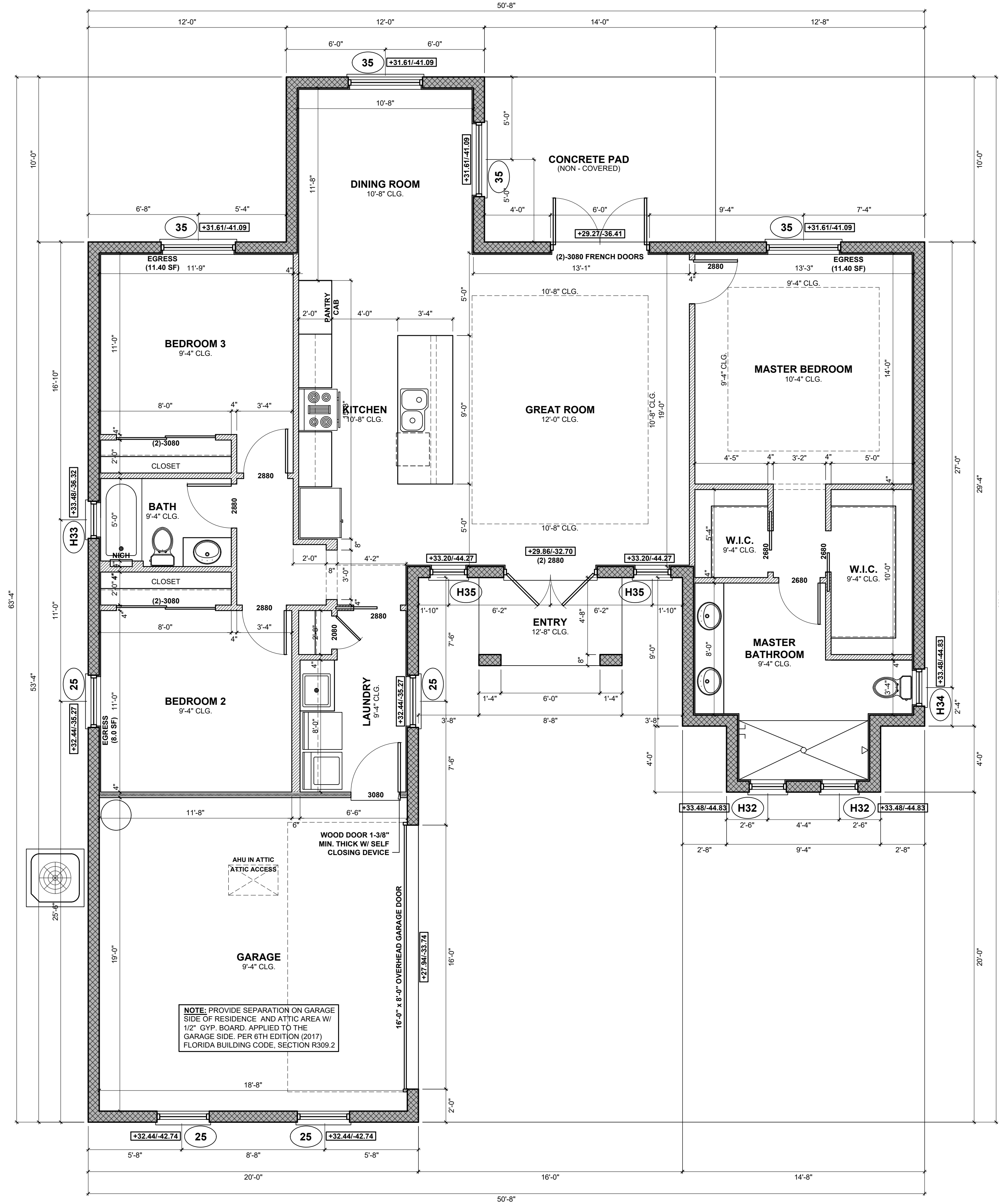
INSTALLED SYSTEM WATER INTRUSION TESTING (tested with no exterior cladding)
ASTM E-331
ASTM E-331 after thermal aging (0-100°F)
WATER VAPOR PERMEABILITY (ASTM E-96)
APPLICATION TEMPERATURE
UV RESISTANCE

Class A (no primer)
Level 3 Thermal Exposure 80°C/176°F for 7 days

For more information about DuPont Flashing Systems, please visit us at www.ConstructionTape.com or call 1-800-44-Tyvek.



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

8" PRECAST U-INTELS STANDARD LENGTHS		
OVERALL LENGTH	TOP STEEL	BOTTOM STEEL
3'-0" (36")	2-7/32" wire	2-#3 rebar
3'-4" (40")	2-7/32" wire	2-#3 rebar
3'-8" (44")	2-7/32" wire	2-#3 rebar
4'-0" (48")	2-7/32" wire	2-#3 rebar
4'-6" (54")	2-7/32" wire	2-#3 rebar
4'-8" (56")	2-7/32" wire	2-#3 rebar
5'-0" (60")	2-7/32" wire	2-#3 rebar
5'-4" (64")	2-7/32" wire	2-#3 rebar
5'-10" (70")	2-7/32" wire	2-#3 rebar
6'-0" (72")	2-7/32" wire	2-#4 rebar
6'-6" (78")	2-7/32" wire	2-#4 rebar
6'-8" (80")	2-7/32" wire	2-#4 rebar
7'-4" (88")	2-7/32" wire	2-#4 rebar
7'-6" (90")	2-7/32" wire	2-#4 rebar
8'-0" (96")	2-#3 rebar	2-#4 rebar
8'-8" (104")	2-#3 rebar	2-#4 rebar
9'-4" (112")	2-#3 rebar	2-#4 rebar
10'-0" (120")	2-#3 rebar	2-#4 rebar
10'-6" (126")	2-#3 rebar	2-#4 rebar
10'-8" (128")	2-#3 rebar	2-#5 rebar
11'-4" (136")	2-#3 rebar	2-#5 rebar
12'-0" (144")	2-#3 rebar	2-#5 rebar
13'-4" (160")	2-#3 rebar	2-#5 rebar
14'-0" (168")	2-#3 rebar	2-#5 rebar

Rebar: ASTM A615 Grade 60
Wire: ASTM A510
Concrete Strength: 3500 psi
Average Self Weight: 33 pcf
Finish: Grey Block

8" PRESTRESSED U-INTELS STANDARD LENGTHS			
OVERALL LENGTH	TOP STEEL	BOTTOM STEEL	REMARKS
14'-8" (176")	NONE	2-7/16 strand	
15'-4" (184")	NONE	2-7/16 strand	
17'-4" (208")	NONE	2-7/16 strand	
19'-4" (232")	2-7/32" wire	2-7/16 strand	
21'-4" (256")	2-7/32" wire	2-7/16 strand	
22'-0" (264")	2-7/32" wire	2-7/16 strand	
24'-0" (288")	2-7/32" wire	2-7/16 strand	

Rebar: ASTM A615 Grade 60
Wire: ASTM A510
Strand: ASTM A416 Grade 270
Concrete Strength: 4500 psi
Synthetic Fibers: 2.5 lbs/yd
Average Self Weight: 37 pcf
Finish: Grey Smooth Form

WINDOW MARK	WINDOW SIZE	TYPE	REMARK
(H32)	26-1/2" x 26"	SINGLE HUNG	IMPACT RESISTANT
(H33)	26-1/2" x 38-3/8"	SINGLE HUNG	IMPACT RESISTANT
(H34)	26-1/2" x 50-5/8"	SINGLE HUNG	IMPACT RESISTANT
(H35)	26-1/2" x 63"	SINGLE HUNG	IMPACT RESISTANT
(25)	37" x 63"	SINGLE HUNG	IMPACT RESISTANT
(35)	53-1/8" x 63"	SINGLE HUNG	IMPACT RESISTANT

BUILDING SQUARE FOOTAGE	
TABULATION	
TOTAL A/C LIVING AREA	1,587 SQ FT
GARAGE	393 SQ FT
ENTRY	46 SQ FT
TOTAL NON-A/C	439 SQ FT
TOTAL UNDER ROOF	2,026 SQ FT



REV.	DESCRIPTION

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PROJ. NAME: **SINGLE FAMILY RESIDENCE "66TH AVE NE"**
NAPLES, FL

DATE: **JANUARY 20, 2020**

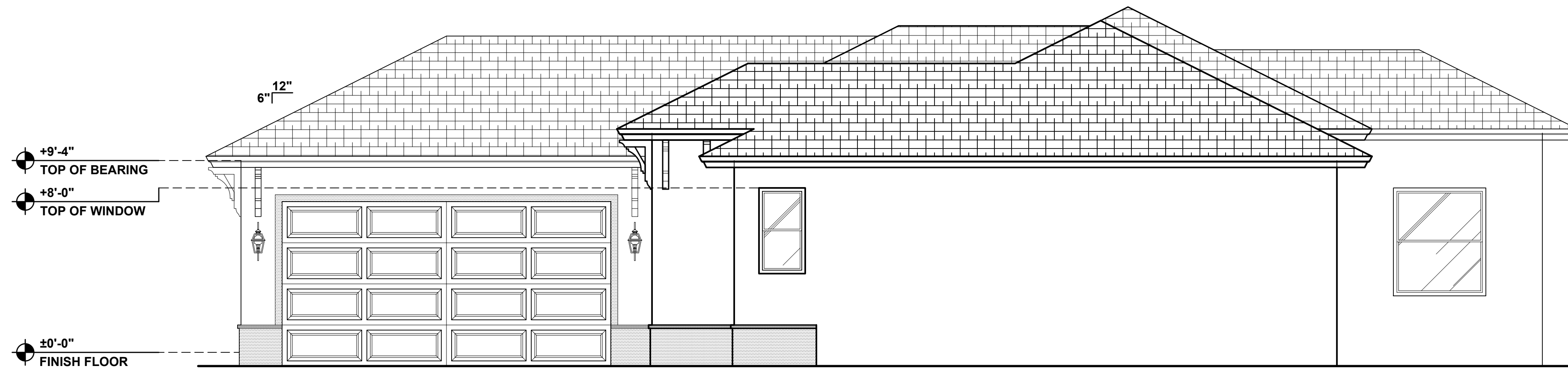
RDA CONSULTING ENGINEERS, LLC.
CERTIFICATE OF AUTHORIZATION NUMBER: 31149
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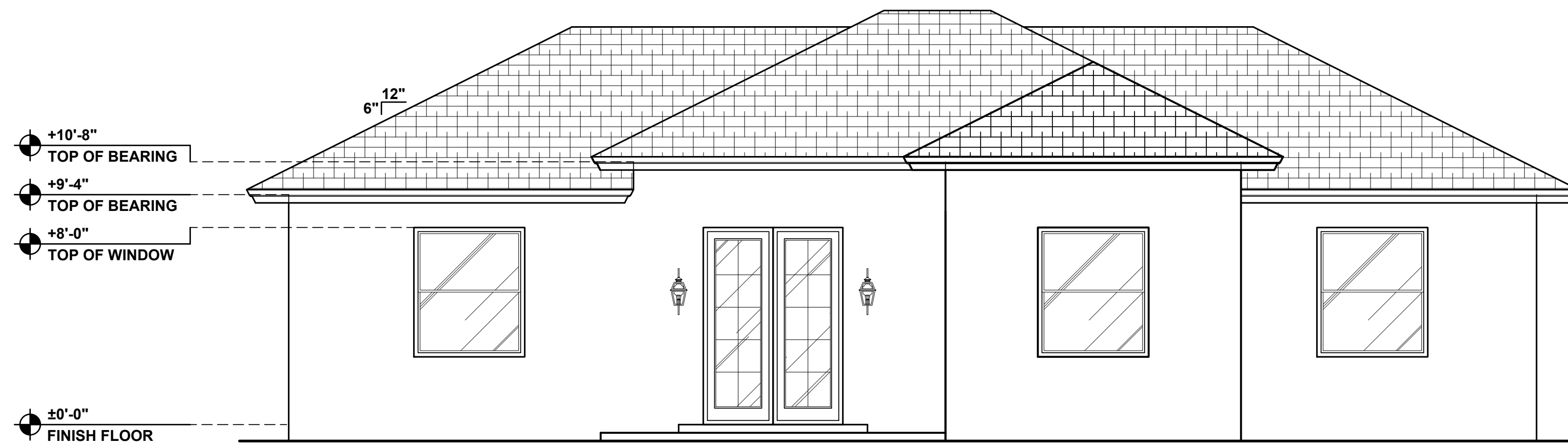
FRONT ELEVATION

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



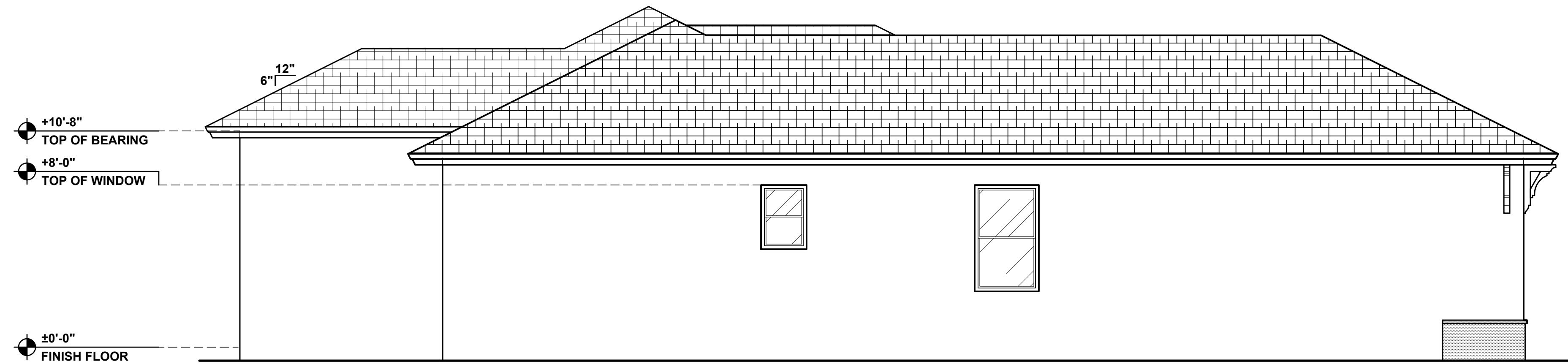
LEFT SIDE ELEVATION

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



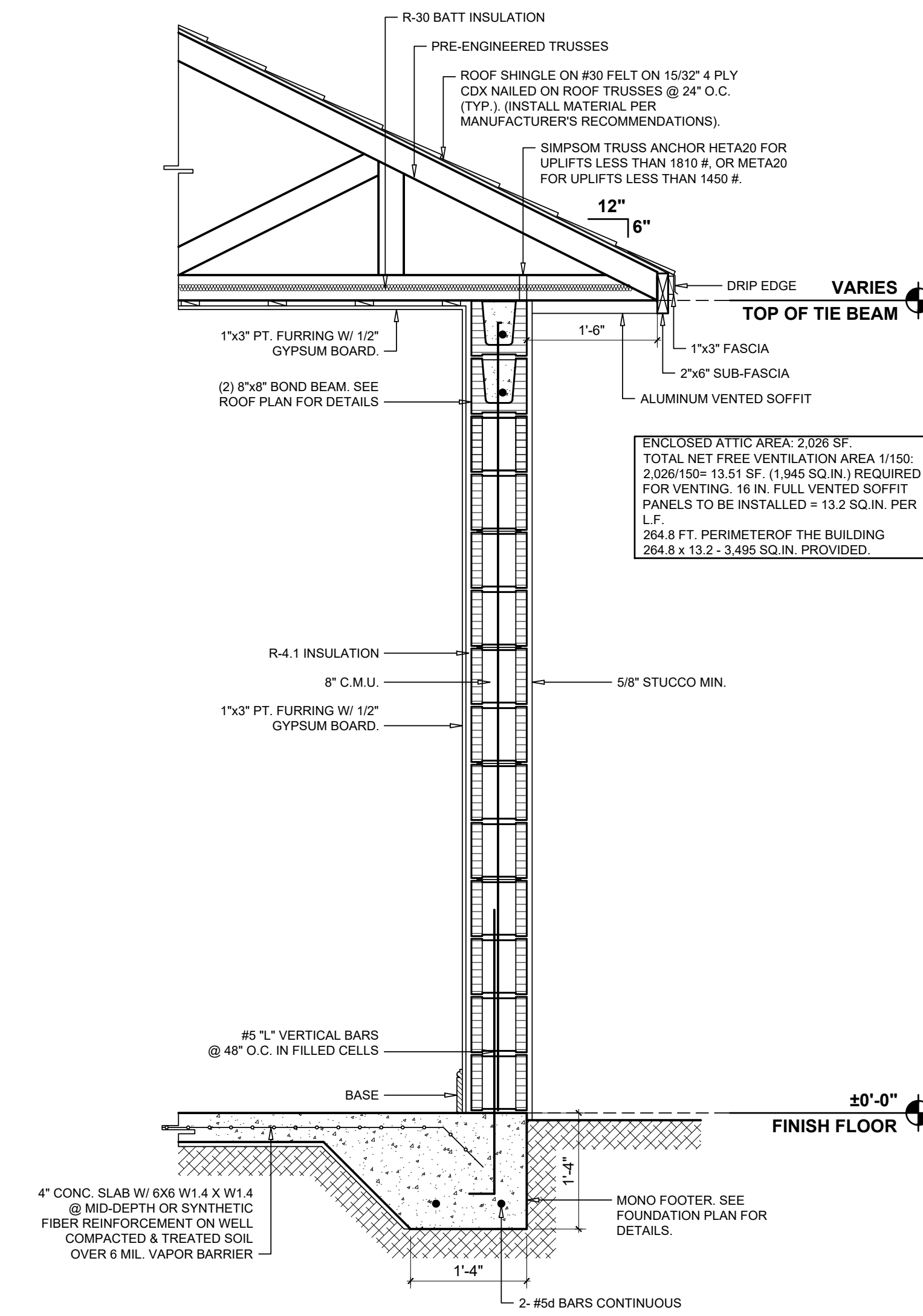
REAR ELEVATION

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



RIGHT SIDE ELEVATION

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



WALL SECTION TYP.

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

ENCLOSED ATTIC AREA: 2,026 SF
 TOTAL NET FREE VENTILATION AREA 1/150:
 2,026/150= 13.51 SF (1,945 SQ IN.) REQUIRED
 FOR VENTING. 16 IN. FULL VENTED SOFFIT
 PANELS TO BE INSTALLED = 13.2 SQ. IN. PER
 L.F.
 264.8 FT. PERIMETER OF THE BUILDING
 264.8 x 13.2 = 3,495 SQ. IN. PROVIDED.

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THESE CONSTRUCTION DOCUMENTS
 HAVE BEEN PREPARED BY THE ARCHITECT
 AND HIS ASSOCIATES IN ACCORDANCE WITH
 THE PROFESSIONAL STANDARDS AND
 PRACTICES OF THE ARCHITECTURAL
 PROFESSION IN THE STATE OF FLORIDA.
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 SHALL BE MADE BY THE ARCHITECT OR HIS
 ASSOCIATES IN WRITING AND SHALL BE
 INCORPORATED INTO THESE DOCUMENTS
 BY THE ARCHITECT'S SIGNATURE AND
 SEAL.

REV.	DESCRIPTION

PROJ. NAME: **SINGLE FAMILY RESIDENCE "66TH AVE NE"**
 NAPLES, FL

DESCRIPTION: **ELEVATIONS**

DATE: **JANUARY 20, 2020**

RDA CONSULTING ENGINEERS, LLC.
 CERTIFICATE OF AUTHORIZATION NUMBER: 31149
 3806 ENTERPRISE AVE
 NAPLES, FL 34104
 PHONE: 239.302.3280 FAX: 239.302.3281

RONNY DE AZA
 FLORIDA PE # 78411



STRUCTURAL NOTES

DESIGN CRITERIA:

THE MAIN WIND-FORCE RESISTANCE SYSTEM AND COMPONENTS AND CLADDING HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 6TH EDITION (2017) TO WITHSTAND WIND PRESSURES GENERATED BY A MINIMUM BASIC WIND SPEED OF 160 M.P.H.

FOUNDATION:

THE FOUNDATION HAS BEEN DESIGNED FOR A SAFE LOAD BEARING CAPACITY OF 2000 PSF. THE CONTRACTOR SHALL VERIFY SOIL BEARING PRESSURES.

CONCRETE:

ALL CONCRETE WORK SHALL CONFORM TO SPECIFICATIONS FOR ALL STRUCTURAL CONCRETE FOR BUILDINGS (A.C.I.-301). CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.

CONCRETE CLEAR COVER:

FOUNDATIONS: 3"
BEAMS: 1.50" TO STIRRUP
SLABS NOT EXPOSED TO THE WEATHER: 0.75"
SLABS EXPOSED TO THE WEATHER: 1.50"

REINFORCING STEEL:

ALL REINFORCING STEEL BARS SHALL CONFORM TO ASTM 615 SPECIFICATIONS AND SUPPLEMENTARY REQUIREMENTS #1 FOR DEFORMED BILLET STEEL WITH 60,000 PSI MINIMUM YIELD STRENGTH. PROVIDE DOWELS IN FOUNDATIONS TO MATCH REINFORCING ABOVE.

PRE-ENGINEERED WOOD ROOF TRUSSES:

PRE-ENGINEERED WOOD ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOADS:

L.L. TOP CHORD 20 PSF
D.L. TOP CHORD 20 PSF
D.L. BOTTOM CHORD 10 PSF

TRUSS MANUFACTURER SHALL SUBMIT SIGNED AND SEALED PLAN VIEW SHOP DRAWINGS W/ ENGINEERED PROFILES AND CALCULATIONS SHOWING ALL REQUIRED TIE DOWNING TO GENERAL CONSTRUCTION. ALL ROOF TRUSSES SHALL BE DESIGNED FOR A MIN. BASIC WIND SPEED OF 160 M.P.H PER THE FLORIDA BUILDING CODE, 6TH EDITION (2017).

MASONRY:

SHALL CONFORM TO ASTM C-90. UNITS SHALL BE ERECTED IN INTERLOCKED RUNNING BOND PATTERN. MORTAR SHALL BE TYPE "N" OR "S" AND MEET ASTM C-270. PROVIDE GAUGE 9 HORIZONTAL JOINT REINFORCEMENT EVERY OTHER COURSE. $f_m = 1500$ PSI. GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI & CONFORM TO ASTM C-476.

SOLID SAWN LUMBER:

TOP AND BOTTOM PLATES, SAWN LUMBER, BEAMS, HEADERS, SOLID AND BUILT UP POSTS SHALL BE #2 SOUTHERN YELLOW PINE WITH THE FOLLOWING MINIMUM PROPERTIES:

$F_b = 1200$ PSI
 $F_v = 90$ PSI
 $E = 1.5 \times 10^6$ PSI

LAMINATED VENEER LUMBER:

L.V.L. & P.S.L. INDICATES LAMINATED LUMBER AS MANUFACTURED BY "TRUSS JOIST McILLAN" CORPORATION. ALL DESIGN DATA FOR THIS MATERIAL DIVISION SHALL BE AS SPECIFIED BY THE MANUFACTURER. ALL ATTACHMENTS, FILLERS ETC. AND INSTALLATION PROCEDURES SHALL IN STRICT ACCORDANCE W/ THE MANUFACTURERS SPECS.

LINTELS:

DOOR OR WINDOW OPENINGS IN MASONRY WALLS SHALL HAVE CONCRETE LINTELS. WHERE THE HEAD OF THE OPENING IS WITHIN 16" OF THE TIE BEAM, OR SLAB, LINTELS SHALL BE POURED INTEGRAL WITH THE TIE BEAMS, OR SLAB. ADD 2# BARS TO EVERY 8" DROP OF THE TIE BEAM. WHERE PRECAST LINTELS ARE USED, THEY SHALL BEAR MINIMUM OF 8" ON THE SUPPORT AND HAVE THE FOLLOWING SIZE AND REINFORCEMENT:

- SPANS UP TO 6'-0" USE 8" X 8" PRECAST U LINTELS
- SPANS UP TO 12'-0" USE 8" X 8" PRE-STRESSED U LINTELS
- REINFORCE AS SHOWN

ROOF SHEATHING:

WOOD STRUCTURAL ROOF SHEATHING DIAPHRAGM SHALL BE 15/32" THICK (A.P.A. RATED) C. D. EXTERIOR INSTALLED PERPENDICULAR TO SUPPORTS AND SECURED W/ 10d NAILS AT 4" O.C. ALL PANEL EDGES AND AT 6" O.C. ALONG ALL INTERMEDIATE SUPPORTS - (4) PLY MATERIAL TO BE USED - SPAN RATING SHALL BE 32/16.

WALL SHEATHING:

WALL SHEATHING DIAPHRAGM SHALL BE 15/32" TH. (A.P.A. RATED) C. D. EXT. INSTALLED PERPENDICULAR TO SUPPORTS AND SECURED W/ 8d NAILS AT 6" O.C. ALL PANEL EDGES - PROVIDE 2" X 4" BLK. BETWEEN STUDS W/ 3-1/2" FACE SET VERTICAL AT ALL PANEL EDGES - ALL INTERMEDIATE SUPPORTS SHALL BE NAILED W/ 8d NAILS AT 12" O.C. - SPAN RATING SHALL BE 32/16.

METAL FASTENERS / CONNECTORS:

ALL HANGERS, CLIPS, STRAPS, TO BE MANUFACTURED BY "SIMPSON STRONG TIE" (UNLESS NOTED OTHERWISE) - REFER TO PLAN & THE DOWN SCHEDULE FOR ALL SPECIFIED FASTENER NUMBERS - CONSULT MFGS. CATALOG #C "WOOD CONSTRUCTION CONNECTORS" AND "HIGH WIND-RESISTANT CONST. CONNECTORS" CATALOG #C-HW - INSTALL ALL STRAPS PER MFGS. SPECIFICATIONS WITH DISTANCE OF STRAP BEING EQUAL FROM POINT OF CONN. ALL STRAPS SHALL BE 2-MAX.

BELOW CONNECTION (1E) BEAM TO POST INTERFACE) ALL CONNECTORS SHALL HAVE ALL NAIL HOLES FILLED WITH APPROPRIATE SIZE NAILS PER SIMPSON'S SPECS.

ALL FLAT STRAPS OR TWIST STRAPS SHALL BE APPLIED WITH EQUAL LENGTHS OF STRAP TO HEADER OR BEAM AND COLUMN, ETC., WHERE (2) STRAPS ARE INDICATED, APPLY ONE (1) AT EACH SIDE OF CONNECTION, FILL ALL HOLES WITH SPECIFIED NAIL COUNT.

GENERAL:

CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO COMMENCING WITH CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY FIELD CONDITION WHICH MAY NOT BE IN ACCORDANCE WITH DESIGN CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE JOB SITE CONSTRUCTION SAFETY. FOR FINISHED FLOOR ELEVATIONS, SLOPES, STEPS AND RECESSES, REFER TO ARCHITECTURAL PLANS. FOR SIZE AND LOCATION OF MECHANICAL SLEEVES AND OPENINGS, REFER TO MECHANICAL AND ARCHITECTURAL PLANS.

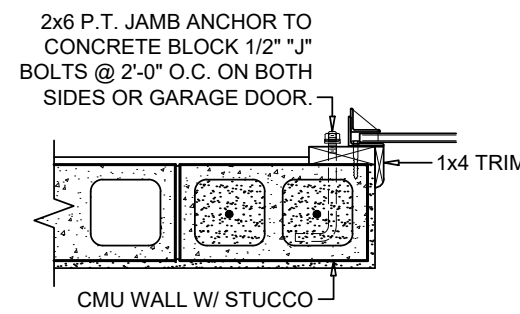
FORM WORK AND SHORING:

SHORES AND RE-SHORES SHALL MEET THE REQUIREMENTS AS SET FORTH IN THE CURRENT A.C.I. 347 AND A.C.I. 301 LATEST EDITIONS. FORM WORK AND SHORING SHALL BE DESIGNED BY A FLORIDA REGISTERED ENGINEER.

SLABS ON FILL:

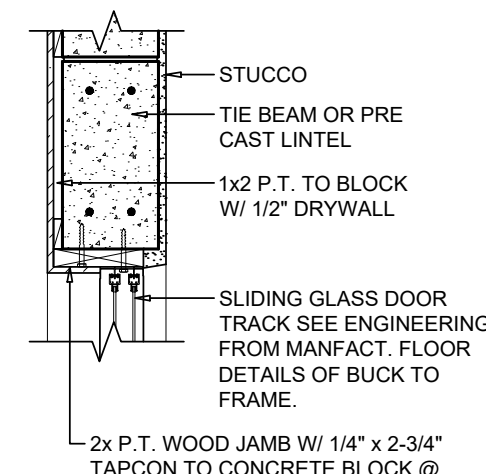
EXTERIOR SLABS ON FILL SHALL BE 4" THICK, UNLESS OTHERWISE NOTED ON PLANS. REINFORCED WITH 6" X 6" W/ 14" X W/ 14" W.W.M. FILL MATERIAL UNDER SLAB SHALL BE CLEAN SAND AND/OR ROCK AND SHALL BE COMPACTED TO 95% (MIN.) OF ASTM D 1557 IN LIFTS NOT TO EXCEED 12" IN DEPTH. SLAB ON FILL SHALL BE POURED AGAINST APPROVED VAPOR BARRIER.

FIBER REINFORCED CONCRETE SLABS SHALL CONTAIN SYNTHETIC FIBER REINFORCEMENT. FIBER LENGTH SHALL BE 1/2" TO 2". DOSAGE AMOUNTS SHOULD BE FROM 0.75 TO 1.5 LBS PER CUBIC YARD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. SYNTHETIC FIBERS SHALL COMPLY WITH ASTM C1116.



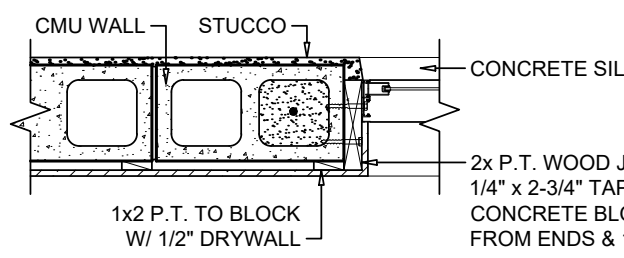
GARAGE DOOR JAMB DETAIL

SCALE: N.T.S.



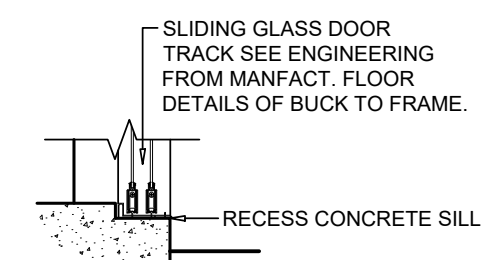
SLIDING GLASS DOOR HEAD DETAIL

SCALE: N.T.S.



SLIDING GLASS DOOR JAMB DETAIL

SCALE: N.T.S.



SLIDING GLASS DOOR SILL DETAIL

SCALE: N.T.S.

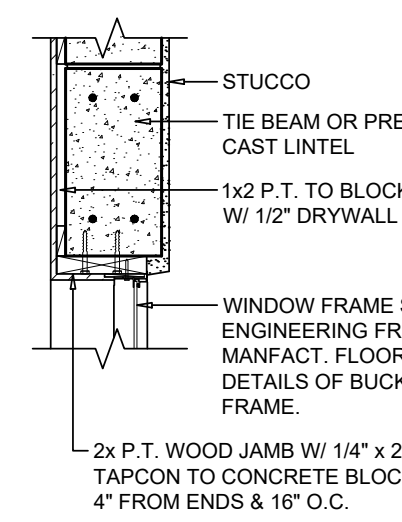
ALTERNATE WINDOW / DOOR JAM ATTACHMENT

WINDOW JAMS SHALL CONSIST OF 1X3 (MIN.) PRESSURE TREATED ATTACHED TO MASONRY WITH 3/16" X 2 1/2" TAPCONS AT 4" FROM EA. END AND 16" O.C. FOR OPENINGS UP TO 6'-0". PROVIDE 3/16" X 2 1/2" TAPCONS AT 12" O.C. FOR OPENINGS GREATER THAN 6'-0" TO 5'-0" HIGH. ANCHORS SHALL NOT BE IN THE BEVELED AREA.

SLIDING DOORS OR WINDOWS UP TO 8'-0" HIGH REQUIRING BUCKING WIDER THAN 4" UP TO 8" SHALL BE ATTACHED TO THE MASONRY WALL WITH (2) ROWS OF 3/16" X 2 1/2" AT 16" O.C. FOR 1X BUCKS AND 1 1/4" X 3 1/2" AT 16" O.C. FOR 2X BUCKS.

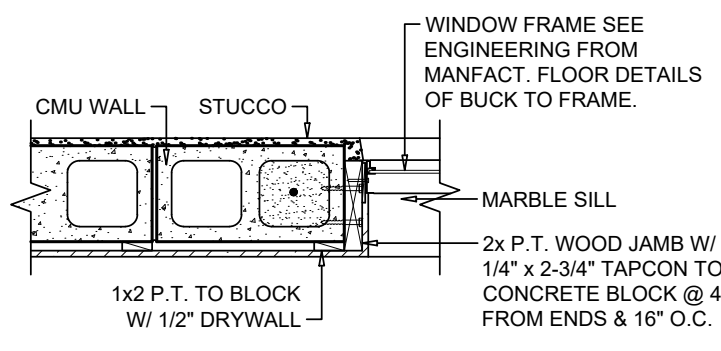
WINDOW ATTACHMENT SHALL BE PER MANUFACTURER'S SPECIFICATIONS AND SHALL BE ATTACHED DIRECTLY TO THE MASONRY WALL THROUGH THE BUCKING IF USING 1" THICK BUCKSTRIPS.

MASONRY CELLS ON EACH SIDE OF THE OPENING SHALL BE FILLED SOLID WITH #5 REBAR EACH CELL IN ACCORDANCE WITH THE MASONRY NOTES.



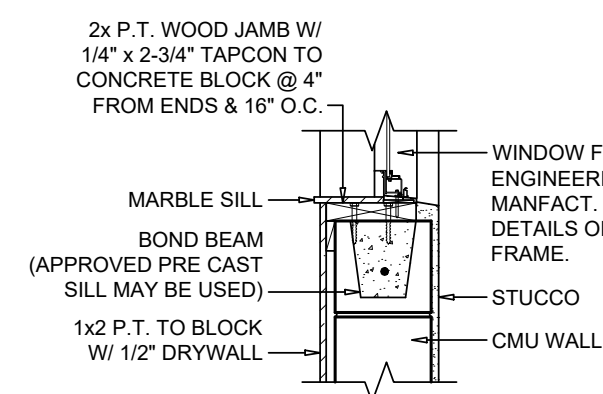
WINDOW HEAD DETAIL

SCALE: N.T.S.



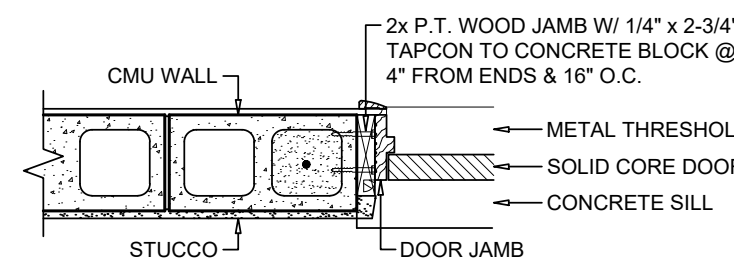
WINDOW JAMB DETAIL

SCALE: N.T.S.



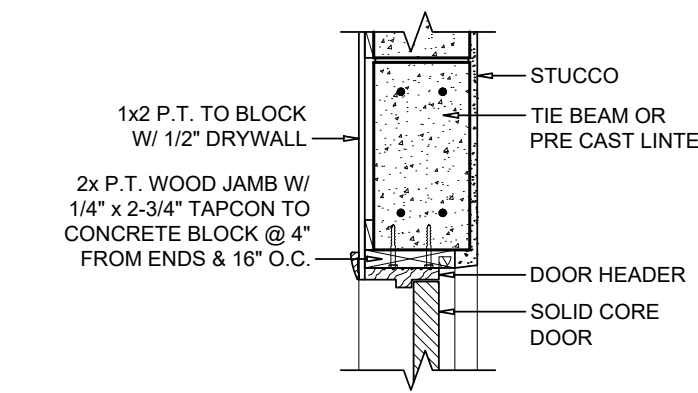
WINDOW SILL DETAIL

SCALE: N.T.S.



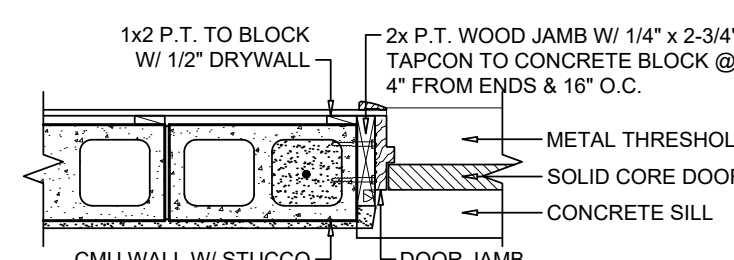
DOOR JAMB TO BLOCK DETAIL

SCALE: N.T.S.



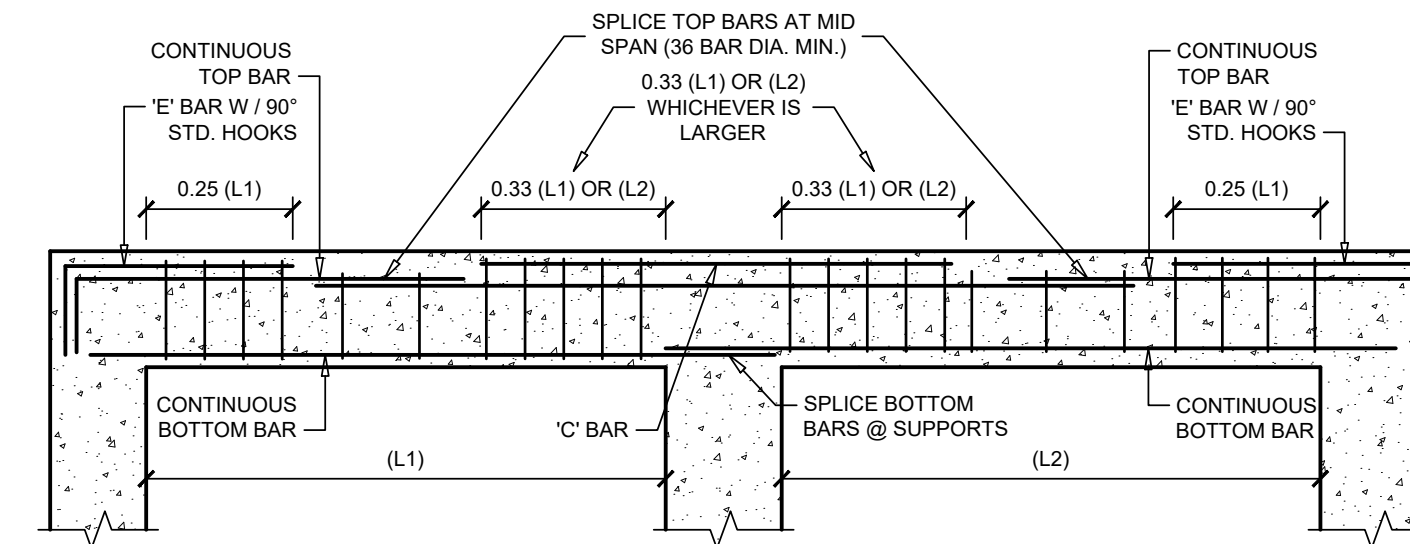
DOOR HEAD DETAIL

SCALE: N.T.S.



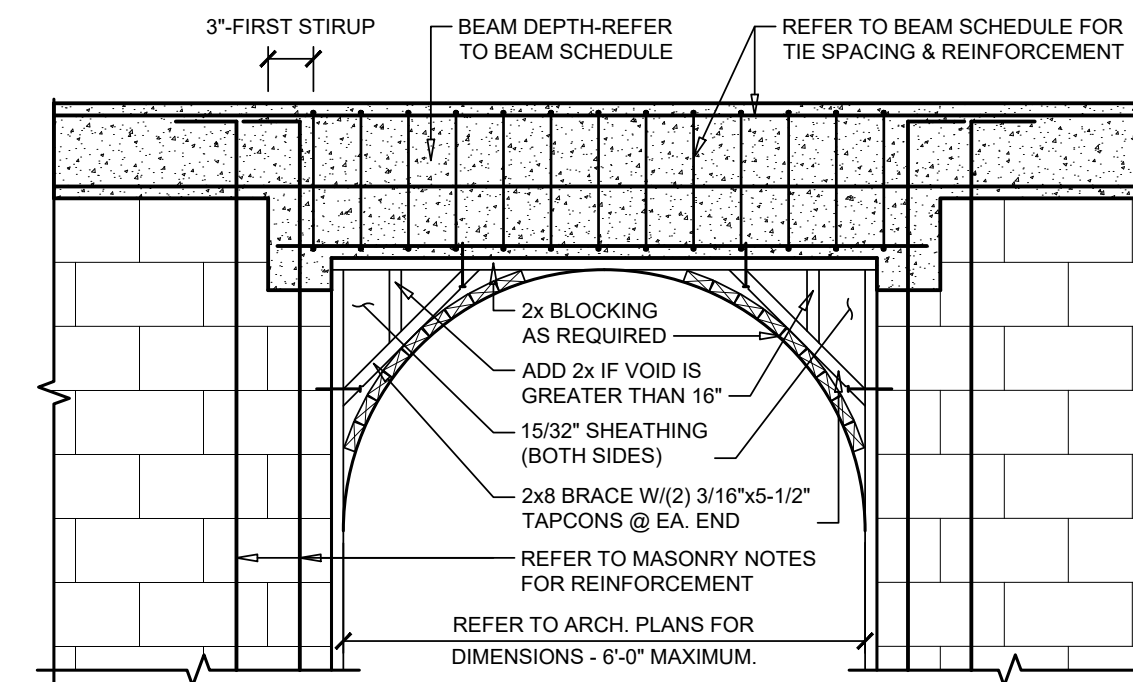
DOOR JAMB TO BLOCK DETAIL

SCALE: N.T.S.



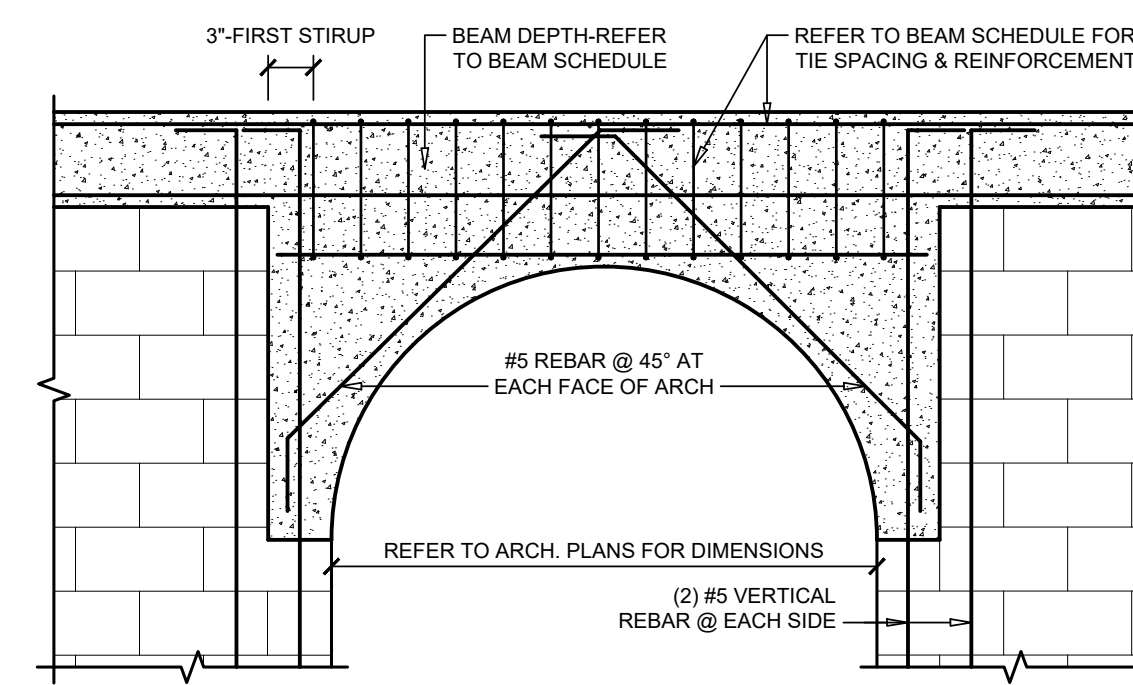
BEAM BAR DIAGRAM

SCALE: N.T.S.



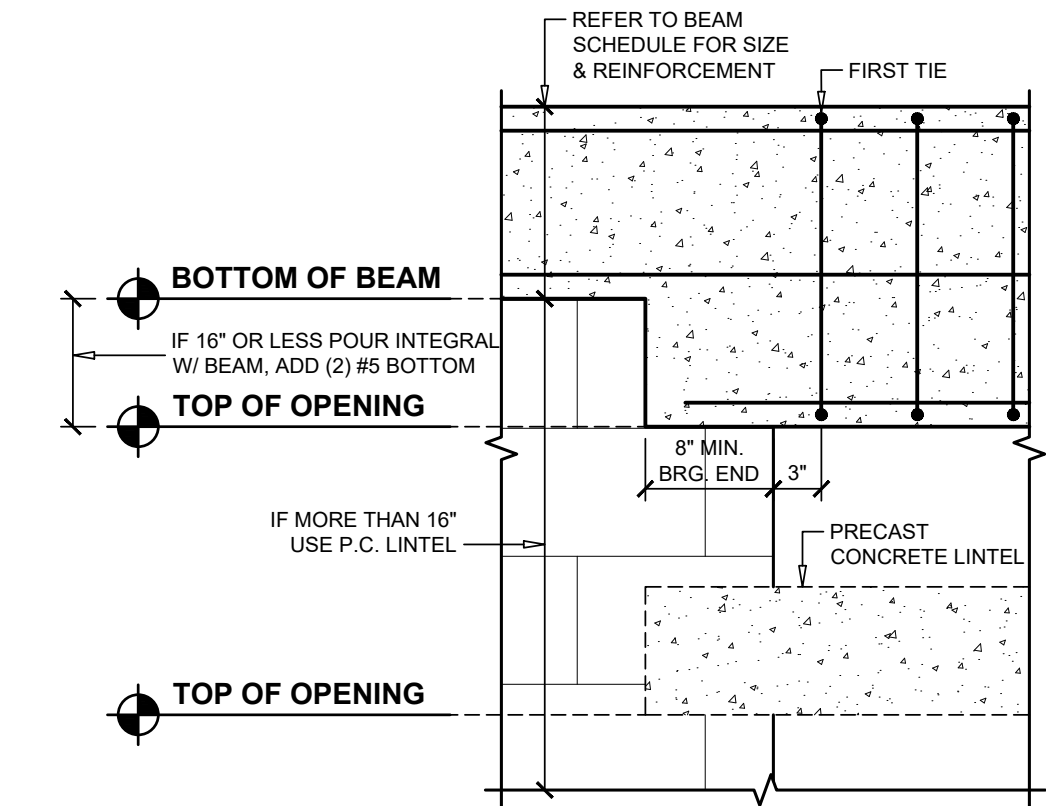
TYPICAL WOOD FRAME ARCH DETAIL

SCALE: N.T.S.



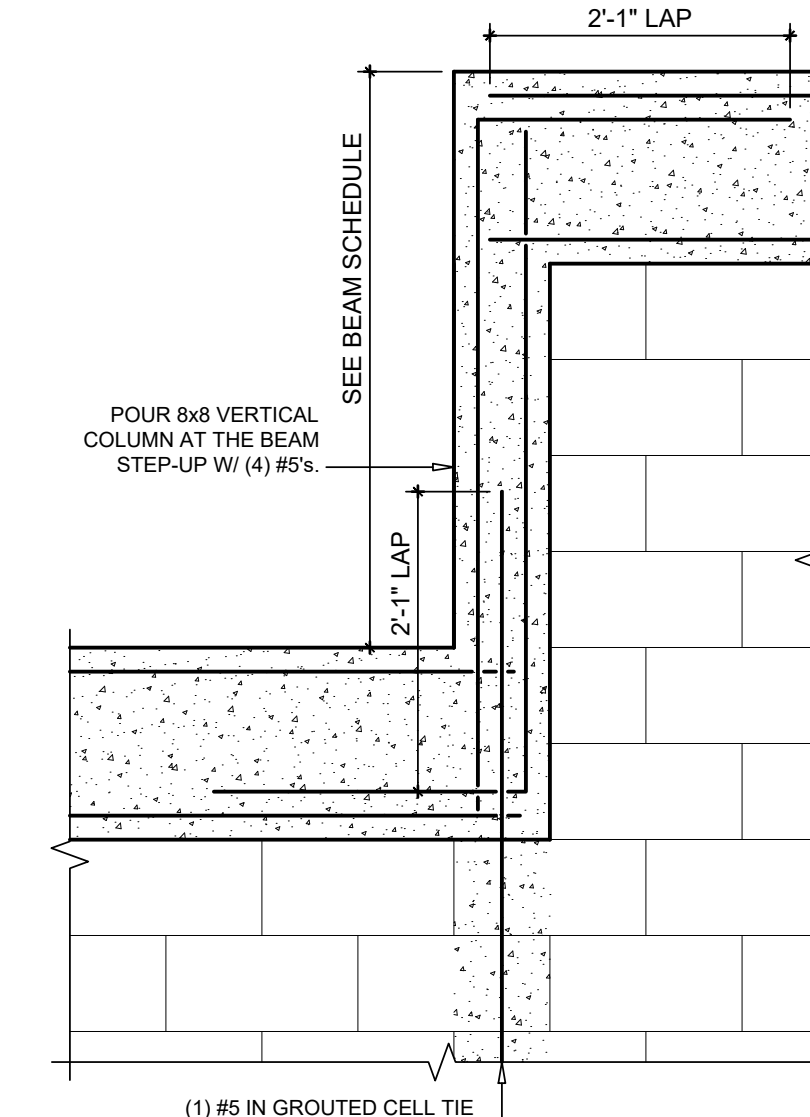
TYPICAL ARCH DETAIL

SCALE: N.T.S.



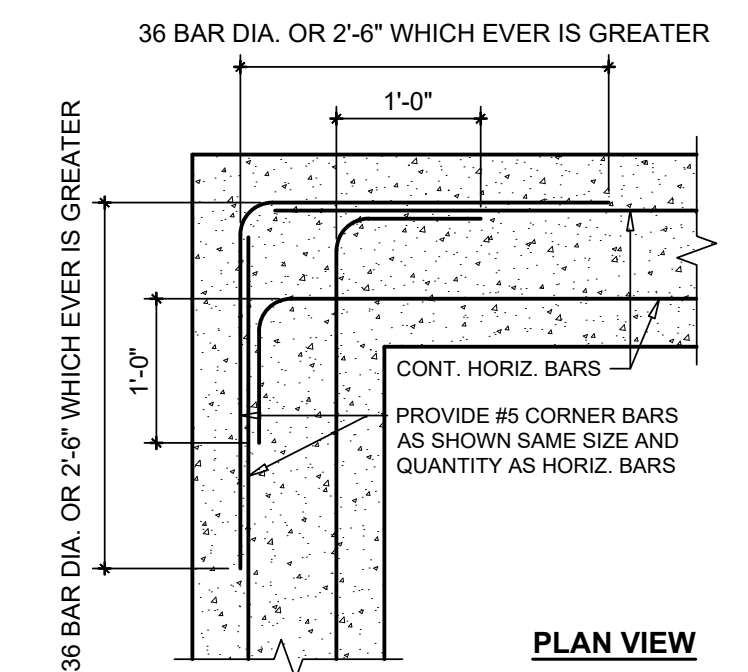
TYPICAL BEAM / LINTEL OVER OPENING

SCALE: N.T.S.



STEP-UP TIE BEAM DETAIL

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



DETAIL FOR FOOTINGS, TIE BEAMS, AND WALLS (TYP.)

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

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PROJ. NAME: SINGLE FAMILY RESIDENCE "66TH AVE NE" NAPLES, FL

DATE: JANUARY 20, 2020

RDA CONSULTING ENGINEERS, L.L.C. AUTHORIZATION NUMBER: 31149 3606 ENTERPRISE AVE. PHONE: 239-302-3280 FAX: 239-302-3281

RONNY DE AZA FLORIDA PE # 78411

SHEET No:

REV.	DESCRIPTION

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PROJ. NAME: **SINGLE FAMILY RESIDENCE "66TH AVE NE"**
 NAPLES, FL

DATE: **JANUARY 20, 2020**

DESCRIPTION: **ELECTRICAL PLAN**

RDA CONSULTING ENGINEERS, L.L.C.
 CERTIFICATE OF AUTHORIZATION NUMBER: 31149
 3606 ENTERPRISE AVE
 PHONE: 239.302.8280 FAX: 239.302.3281

RONNY DE AZA
 FLORIDA PE # 78411

DESIGNED BY: RDA CONSULTING ENGINEERS, L.L.C.
 SPECIFICATIONS: CONSTRUCTION OF ELECTRICAL SYSTEMS PER BUILDING CODE REQUIREMENTS

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
⌚	SWITCH SINGLE POLE
⌚⌚	3 WAY SWITCH
⌚⌚⌚	4 WAY SWITCH
⌚⌚⌚⌚	INCANDESCENT LIGHT DIMMER AND SWITCH
⌚⌚⌚⌚⌚	MOTION DETECTOR SENSOR
⌚⌚⌚⌚⌚⌚	RECESSED RESTROOM EXHAUST FAN
⌚⌚⌚⌚⌚⌚⌚	WALL MOUNT LIGHTING FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚	SURFACE MOUNTED WALL SCONCE LIGHT
⌚⌚⌚⌚⌚⌚⌚⌚⌚	CEILING MOUNT LIGHTING FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	HANGING CEILING LIGHTING FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	RECESSED LIGHTING FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	VAPOR PROOF RECESSED LIGHTING FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	EXTERIOR FLOOD LIGHT FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	FLUORESCENT LIGHTING STRIP FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	FLUORESCENT WRAP AROUND LIGHTING FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	2x2 PARABOLIC RECESSED LIGHTING FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	2x2 ACRYLIC RECESSED LIGHTING FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	2x4 PARABOLIC RECESSED LIGHTING FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	2x4 ACRYLIC RECESSED LIGHTING FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	CEILING FAN
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	CEILING FAN WITH LIGHT KIT
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	EXIT LIGHTING FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	EMERGENCY LIGHTING FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	EXIT & EMERGENCY COMBINATION LIGHTING FIXTURE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	EXIT LIGHTING FIXTURE DIRECTIONAL CHEVRONS
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	CEILING MOUNTED COMBINATION SMOKE / CARBON MONOXIDE ALARM
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	ELECTRICAL PANEL SURFACE MOUNT
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	DUPLEX RECEPTACLE 125V 20A
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	1/2 SWITCHED DUPLEX RECEPTACLE 125V 15A (RESIDENTIAL)
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	DUPLEX RECEPTACLE 125V 20A GROUND FAULT CIRCUIT INTERRUPT & WATERPROOF COVER
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	DUPLEX RECEPTACLE 125V 20A GROUND FAULT CIRCUIT INTERRUPT
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	DUPLEX FLOOR RECEPTACLE 125V 20A
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	DUPLEX CEILING MOUNTED RECEPTACLE 125V 20A
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	208/240 VOLT RECEPTACLE 4WIRE
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	CEILING MOUNTED JUNCTION / OUTLET BOX
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	TELEPHONE OUTLET
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	DATA OUTLET
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	TELEVISION OUTLET
⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚⌚	DOOR BELL
⌚⌚	MOTOR
⌚⌚⌚	MOTOR DISCONNECT SWITCH
⌚⌚	ELECTRICAL METER

ELECTRICAL NOTES

- IT IS THE INTENT OF THE DESIGNER THAT THE ELECTRICAL SUBCONTRACTOR IS TO BID AND INSTALL ALL ELECTRICAL ITEMS AS REQUIRED PER APPLICABLE ELECTRICAL BUILDING CODES.
- ALL EXTERIOR OUTLETS AND OUTLETS IN KITCHEN, BATHROOMS AND UTILITY TO BE ON GFI CIRCUITS.
 - VERIFY POWER HOOK UP LOCATION AND TYPE OF SERVICE (UNDERGROUND OR OVERHEAD) WITH RESPECT TO SUBDIVISION REQUIREMENTS.
 - ALL SMOKE DETECTORS ARE TO BE HARD WIRED AND INTERCONNECTED WITH BATTERY BACKUP.
 - ALL FIXTURES SHALL BE APPROVED BY THE OWNER PRIOR TO PURCHASE AND INSTALLATION.
 - ALL 120V, SINGLE PHASE, 15 AND 20 AMP BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN ALL LIVING AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT

EQUAL TO: **SQ. "D" Q0142M200** VOLTAGE: **120/240V, 1Ø, 3W**

TYPE: **LOADCENTER** PANEL "A" MAINS: **200A**

MOUNTING: **FLUSH** TYPE MAINS: **MB**

CIR. NO.	IDENTIFICATION	"A" VA	"B" VA	TRIP AMPS	POLE	WIRE	COND	COND	WIRE	POLE	TRIP AMPS	"A" VA	"B" VA	IDENTIFICATION	CIR. NO.
1	* AHU-1	-	-	60	2	6	1"	3/4"	8	2	40	-	-	RANGE	2
3	* AHU-1	-	-	60	-	6	-	-	8	-	40	-	-	RANGE	4
5	* CU-1 (3 TON)	-	-	50	2	8	3/4"	1/2"	10	2	30	-	-	DRYER	6
7	* CU-1	-	-	50	-	8	-	-	10	-	30	-	-	DRYER	8
9	REFRIGERATOR	-	-	20	1	12	1/2"	1/2"	12	1	20	-	-	WASHER	10
11	DISPOSAL	-	-	20	1	12	1/2"	1/2"	12	1	20	-	-	LAUNDRY	12
13	KITCHEN RECEPTACLES	-	-	20	1	12	1/2"	1/2"	12	1	20	-	-	DISHWASHER	14
15	KITCHEN RECEPTACLES	-	-	20	1	12	1/2"	1/2"	12	1	20	-	-	GARAGE	16
17	MICROWAVE	-	-	20	1	12	1/2"	1/2"	12	1	20	-	-	BATHROOM RCPT.	18
19	** BEDROOM 2	-	-	15	1	14	1/2"	1/2"	10	2	30	-	-	WATER HEATER	20
21	** BEDROOM 3	-	-	15	1	14	1/2"	1/2"	10	-	30	-	-	WATER HEATER	22
23	MASTER BATH RECEPTACLES	-	-	20	1	12	1/2"	1/2"	14	1	15	-	-	** MASTER BEDROOM	24
25	GREAT ROOM	-	-	15	1	14	1/2"	1/2"	12	1	20	-	-	LANAI RECEPTACLES	26
27	** MASTER BEDROOM	-	-	15	1	14	1/2"	1/2"	14	1	15	-	-	GENERAL LIGHTING	28
29	GENERAL LIGHTING	-	-	15	1	14	1/2"	1/2"	14	1	15	-	-	GENERAL LIGHTING	30
31	GENERAL LIGHTING	-	-	15	1	14	1/2"	1/2"	10	2	25	-	-	OVEN	32
33		-	-						10	-	25	-	-	OVEN	34
35		-	-									-	-		36
37		-	-									-	-		38
39		-	-									-	-		40
41		-	-									-	-		42
SUB-TOTAL KVA/Ø												SUB-TOTAL KVA/Ø			

* VERIFY SIZE OF O.C.P. DEVICE W/ MANUFACTURER, MECHANICAL DRAWINGS AND FIELD VERIFICATION.
 ** INDICATES ARC. FAULT BREAKER.
 *** VIA TIME SWITCH.

Residential Standard Calculation Version 7.28 9/25/1997

STEP 1 Article 220.42 & 220.52

1587	General Lighting load	4,761 VA	
2	Small Appliance	3,000 VA	
1	Laundry circuit	1,500 VA	
	Gen.Lgt., Sm App. & Laun. Load	9,261 VA	
		3,000 VA @ 100% = 3,000 VA	
		6,261 VA @ 35% = 2,191 VA	
			1/15/2020 15:25

General Lighting Demand Load **5,191 VA**

STEP 2 Article 220.50 & 220.51

3,000	4,700 VA	AHU 1	8,800 VA	Total Heat Load	8,800 VA
A/C #2	VA	AHU 2	VA	Total CU Load	4,700 VA
A/C #3	VA	AHU 3	VA	Greater of Heat @ 100% vs A/C @ 100%	8,800 VA
A/C #4	VA	AHU 4	VA		
A/C #5	VA	AHU 5	VA		

Appliance Demand Load **6,938 VA**

STEP 3 Article 220.53

4,500 VA	1	Water Heater	4,500 VA	Dryer Demand Load	5,000 VA
1,400 VA	1	Refrigerator	1,400 VA	Range Demand Load	8,000 VA
600 VA	1	Freezer	600 VA	Service Demand	33,929 VA
1,030 VA	1	Dishwasher	1,030 VA	Demand Load	141 A
690 VA	1	Disposal	690 VA	Neutral Demand	74 A
780 VA	1	Trash Compactor	780 VA	See Service Riser	
1,630 VA	1	Microwave	1,630 VA		
340 VA	0	Mini Refrigerator	VA		
400 VA	0	Range hood	VA		
540 VA	0	Wine Cooler	VA		
1,500 VA	0	Ironing Center	VA		
		Saucer Tub	VA		
		Sprinkler Pump	VA		
		Well Pump	VA		
		Fountain Pump	VA		
		Elevator	VA		
		Pool Equip. Panel	VA 100% Demand		
		U.C. Ice Maker	VA No Demand		
			VA No Demand		
			4 or more demand @ 75% plus 100% demand loads	Total Appliance Load	9,250 VA
					6,938 VA

STEP 4 Article 220.54
 Electric Clothes Dryers **5,000 VA**

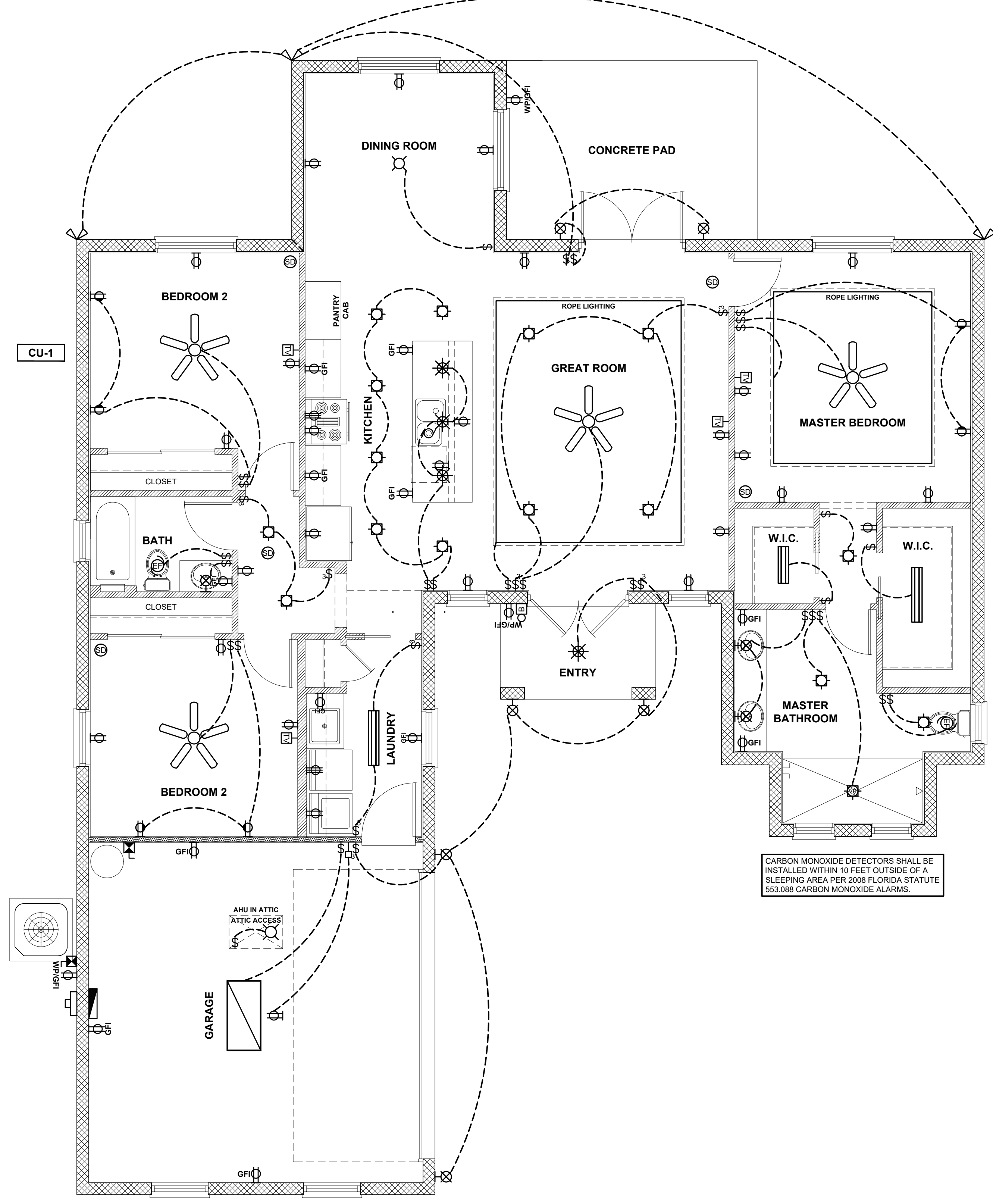
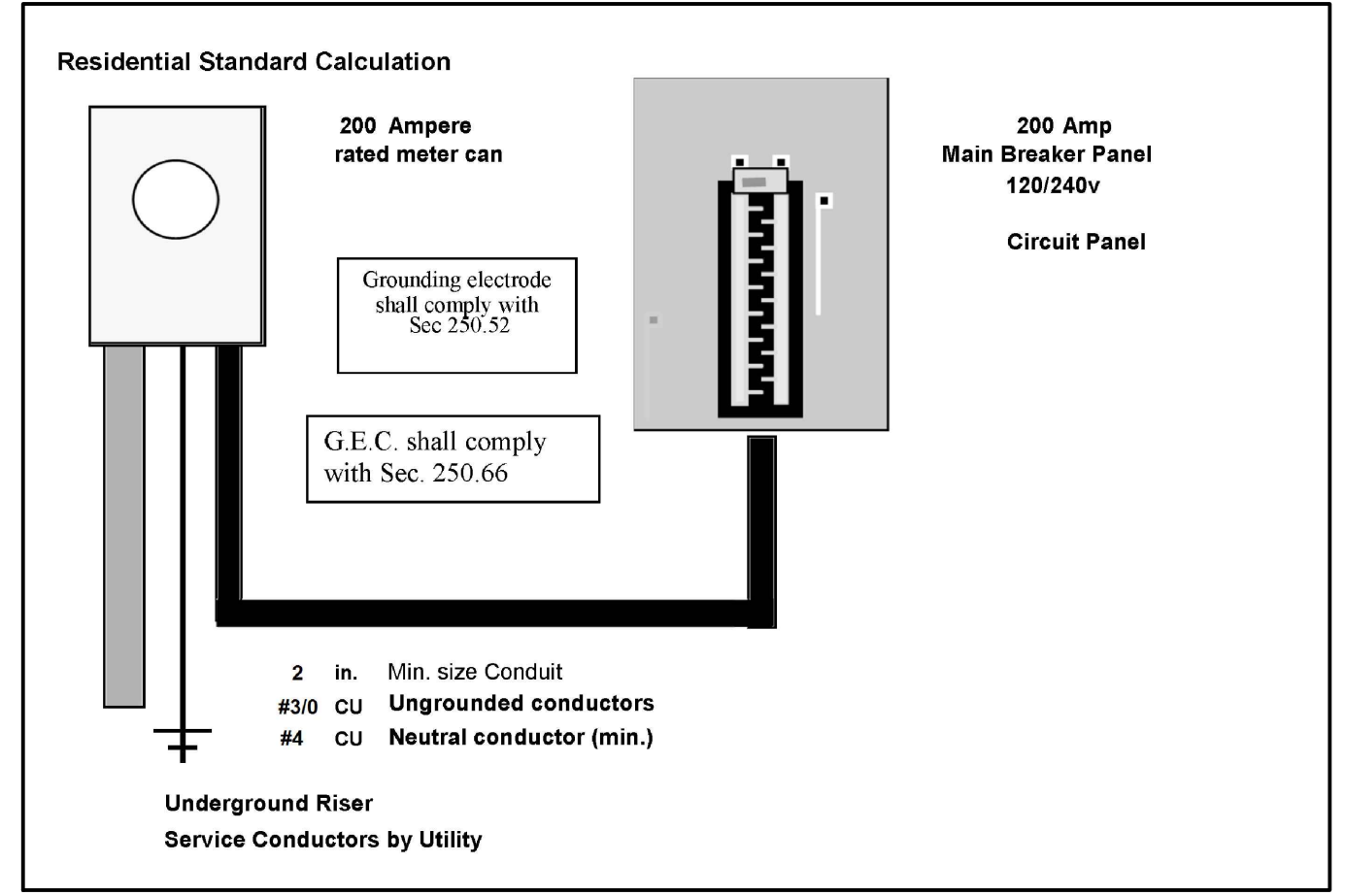
STEP 5 Article 220.55
 Electric Ranges **11,600 W** Col C demand **8,000 W**

Number of appliances **2**

Number of appliances **0** Dem. Factor **0%**

Cooktop & Oven Demand Load **W**

JC ROBALINO, INC.
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ELECTRICAL PLAN

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