



FLOOR AREA	
TOTAL SITE AREA	4,977 SQ.FT.
BUILDING COVERAGE	1,656.3 SQ.FT. (33.28%)
<b>LIVING AREAS:</b>	
GROUND FLOOR	907.6 SQ.FT.
FIRST FLOOR	1,508.5 SQ.FT.
SECOND FLOOR	1,297.7 SQ.FT.
<b>TOTAL</b>	<b>3,713.8 SQ.FT.</b>
<b>MISC. AREAS:</b>	
CRAWLSPACE	842.5 SQ.FT.
GROUND FL. DECK	140.5 SQ.FT.
PORCH	118.7 SQ.FT.
GAR / STORAGE	481 SQ.FT.
1ST FLR. DECKS	112.6 SQ.FT.
2ND FLR. DECKS	370.5 SQ.FT.
ROOF DECK	461.9 SQ.FT.
OUTDOOR SHWR	32 SQ.FT.
<b>VOLUME</b>	<b>35,001.4 CU.FT.</b>
NOTE:	NUMBERS INDICATED ARE IN SQUARE FEET U.N.O.

PROJECT CRITERIA	
Building Code:	IRC 2021 - N.J. EDITION
Energy Compliance:	Per IECC 2021-Rescheck
Use Group:	R-5
Construction Type:	5A
Number of Stories:	3
Height of Structure:	33'-11 <sup>3</sup> / <sub>4</sub> "
Sprinkler Type:	N/A
Preliminary Flood Zone:	AE
Effective Flood Zone:	AE
Base Flood Elev. (BFE):	+8.0' + 1.0' FREE BOARD
Design Flood Elev. (DFE):	+9.0'

DRAWING LIST	
COV	COVER SHEET
A-1	PILING/FLOOR PLANS
A-2	FLOOR PLANS
A-3	ELEVATIONS
A-4	STRUCTURAL PLANS
A-5	STRUCTURAL PLANS
A-6	ROOF & ROOF FRAMING PLANS
A-7	ELECTRICAL PLANS
A-8	ELECTRICAL PLANS
D-1	DETAILS
D-2	TJI DETAILS

DESIGN LOADS	
<b>SNOW LOADS:</b>	
FLAT ROOF	- 10.5 PSF
GROUND SNOW LOAD	- 20 PSF
SNOW EXPOSURE FACTOR	- .7
SNOW LOAD IMPORTANCE FACTOR	- 1.0
<b>WIND LOADS:</b>	
BASIC WIND SPEED	- 128 MPH
WIND LOAD IMPORTANCE FACTOR	- 1.40
WIND EXPOSURE	- C
<b>WIND DESIGN PRESSURE:</b>	
ROOF	- 14.4 X 1.4 = 20.16
WALLS	- 18.4 X 1.4 = 25.76
DEAD LOAD	- 10 PSF
<b>LIVE LOADS</b>	
FLOORS - LIVING AREA	- 40 PSF
SLEEPING AREA	- 30 PSF
ATTIC	- 20 PSF
ROOFS	- 20 PSF
STAIRS	- 50 PSF
BALCONIES	- 60 PSF
DECKS	- 50 PSF

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ARMINIO RESIDENCE  
LOT: 18 BLOCK: 15.26  
14 EAST SIGSBEE AVE. LONG BEACH TOWNSHIP - BRANT BEACH  
OCEAN COUNTY, NEW JERSEY  
NEW SINGLE FAMILY RESIDENCE

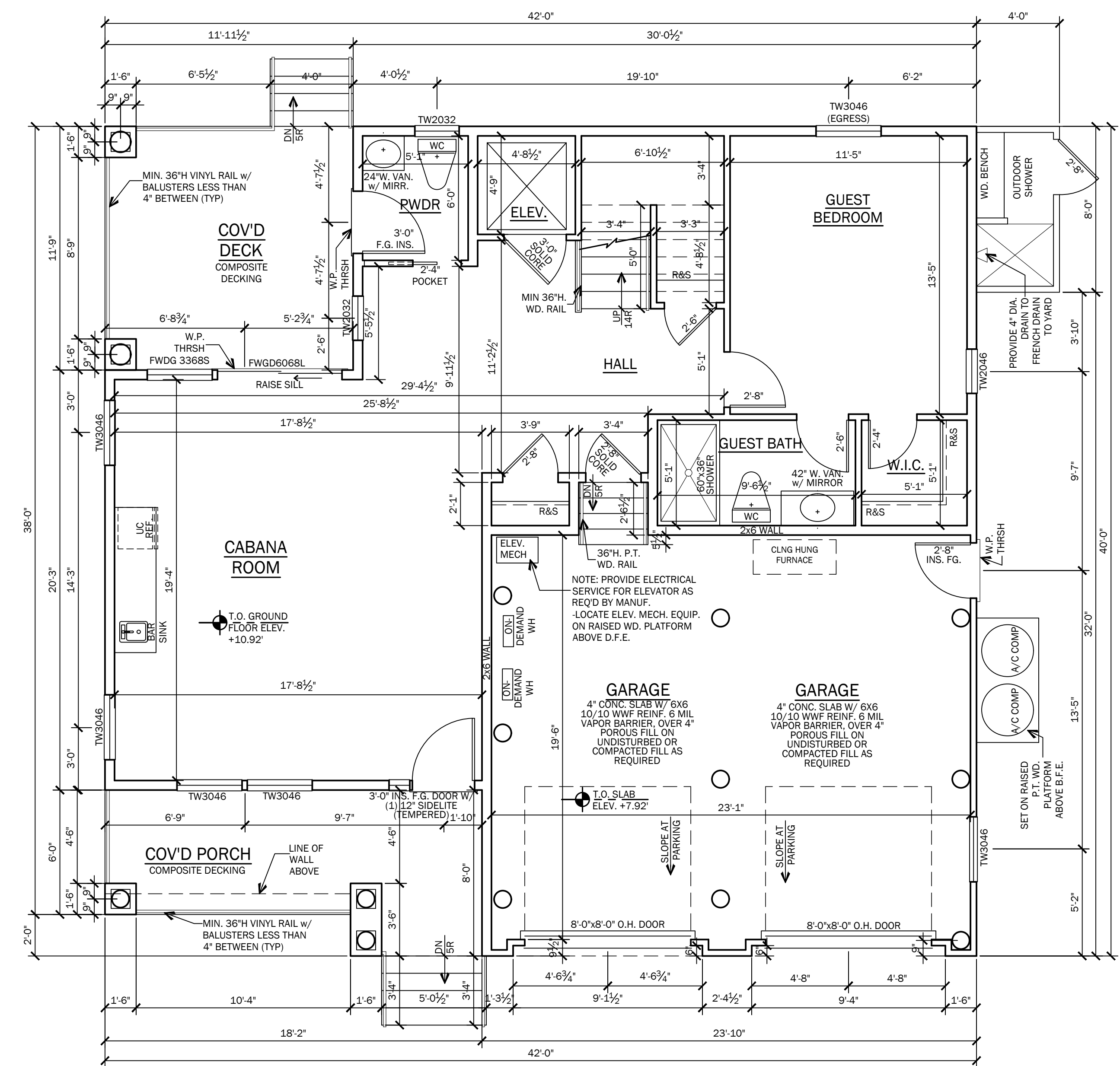
REVISIONS	
No.	Date

DATE  
11/22/2023

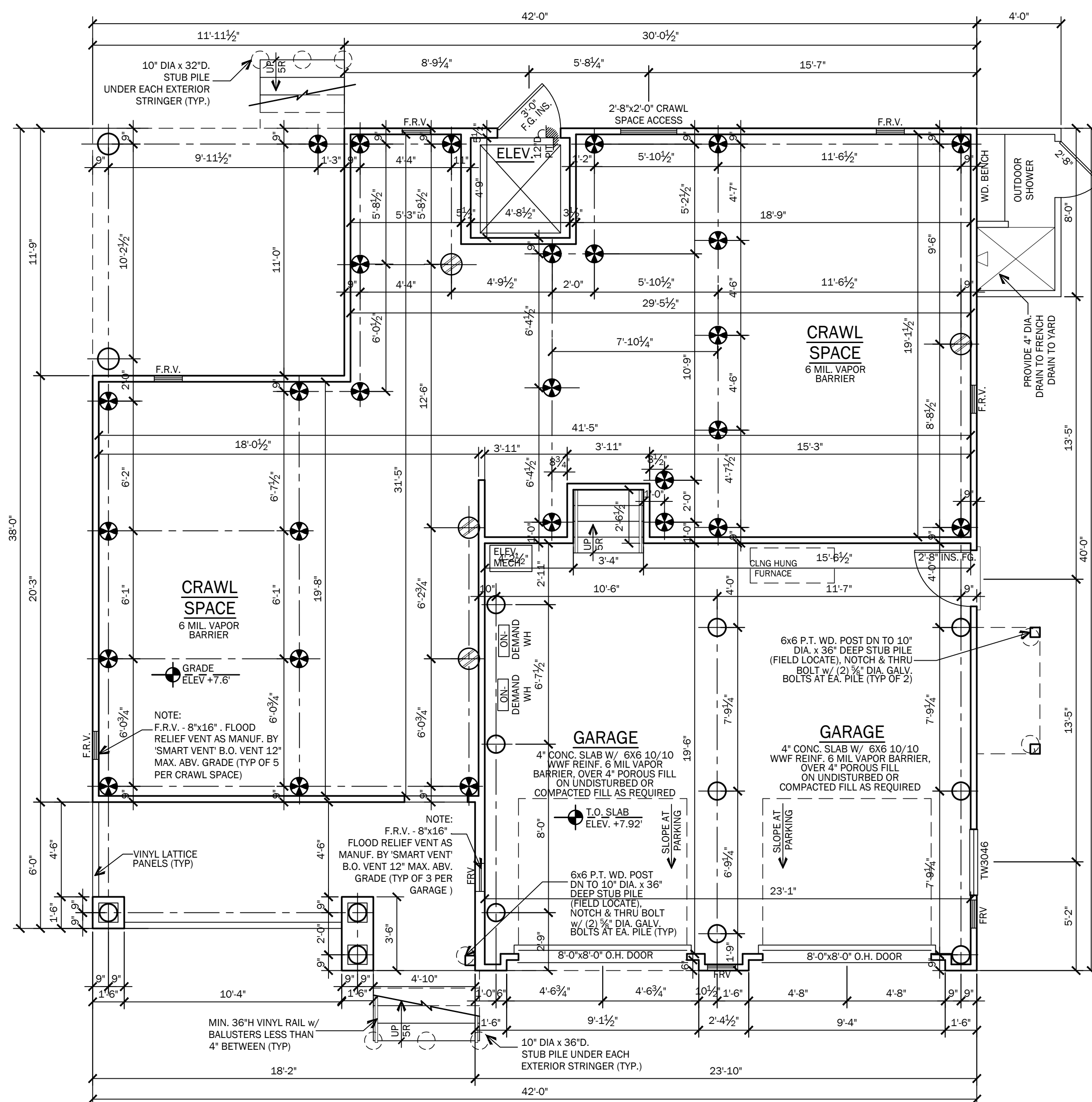
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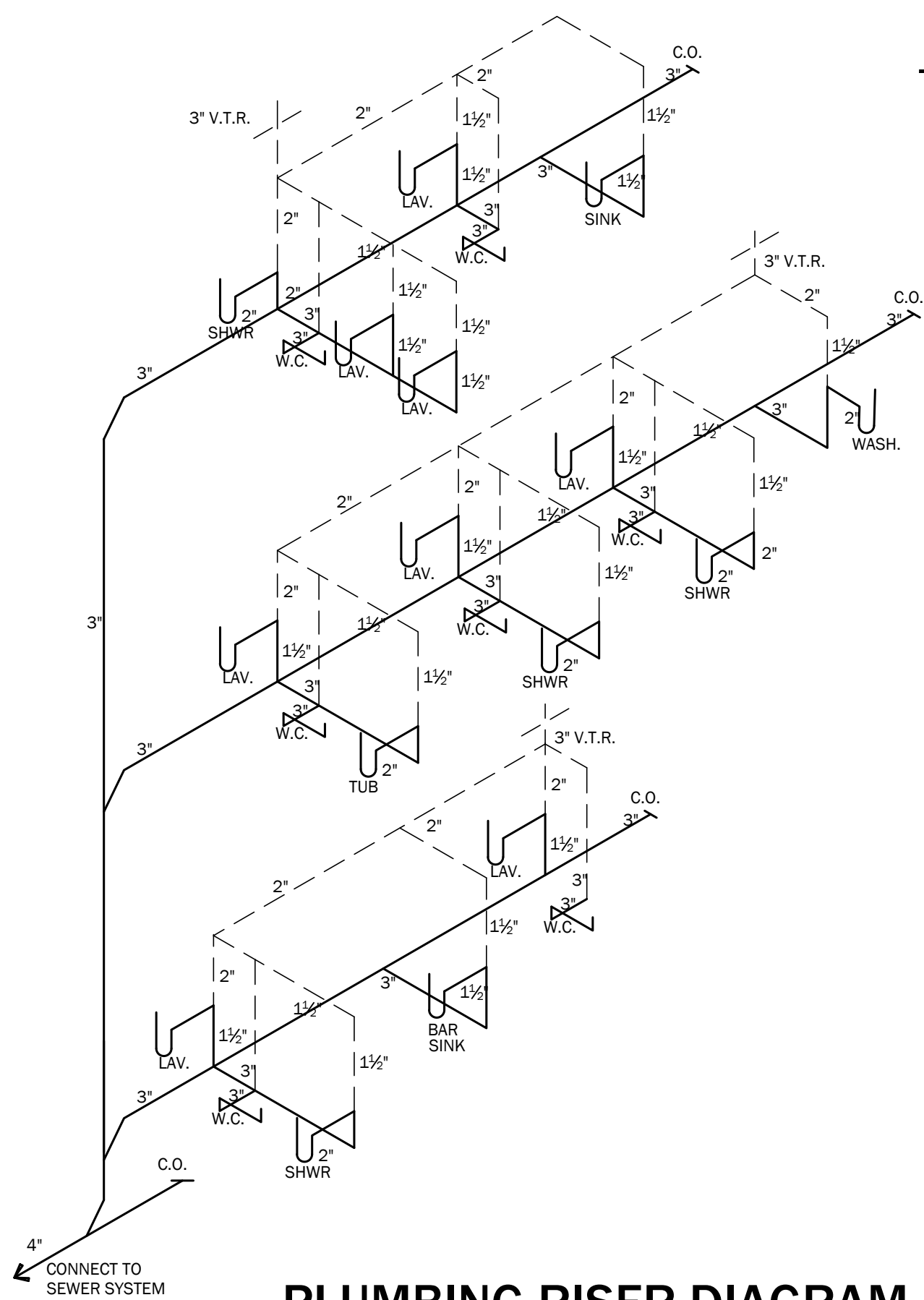
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**COV**  
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**GROUND FLOOR PLAN**  
1/4" = 1'-0"



**PILING PLAN**  
1/4" = 1'-0"



**PLUMBING RISER DIAGRAM**  
1/4" = 1'-0"

ATTIC VENT		FLOOR AREA	
MAIN ROOF	2.51 SQ. FT.	TOTAL SITE AREA	4,977 SQ. FT.
RIDGE AREA	2.51 SQ. FT.	BUILDING COVERAGE	1,656.3 SQ. FT. (33.28%)
NOTE: AREAS ARE CALCULATED BY 1/300 OF THE ATTIC FLOOR AREA, 50% OF AREA AT THE RIDGE, 50% OF AREA AT THE SOFFIT.			
SOFFIT NOTE		LIVING AREAS:	
PROVIDE EXTERIOR GRADE G.W.B. AT ANY CEILING EXPOSED TO WEATHER, UNLESS NOTED OTHERWISE.		GROUND FLOOR	907.6 SQ. FT.
		FIRST FLOOR	1,508.5 SQ. FT.
		SECOND FLOOR	1,297.7 SQ. FT.
		TOTAL	3,713.8 SQ. FT.
AIR INFILTRATION BARRIER		MISC. AREAS:	
-PER 2021 IECC, SECTION 402.4.1. THE BUILDING THERMAL ENVELOPE SHALL BE DURABLY SEALED TO LIMIT INFILTRATION. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR THE DIFFERENTIAL EXPANSION AND CONTRACTION. THE FOLLOWING SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL, SUITABLE FILM OR SOLID MATERIAL: -ALL JOINTS, SEAMS, AND PENETRATIONS -SITE-BUILT WINDOWS, DOORS, AND SKYLIGHTS -OPENINGS BETWEEN WINDOW AND DOOR ASSEMBLIES AND THEIR RESPECTIVE JAMBS AND FRAMING -UTILITY PENETRATIONS -DROPPED CEILING OR CHASES ADJACENT TO THE THERMAL ENVELOPE -KNEE WALLS -WALLS AND CEILING SEPARATING A GARAGE FROM CONDITIONED SPACES -BEHIND TUBS AND SHOWERS ON EXTERIOR WALLS -COMMON WALLS BETWEEN DWELLING UNITS		GROUND FL. DECK	842.5 SQ. FT.
		PORCH	140.5 SQ. FT.
		GAR / STORAGE	118.7 SQ. FT.
		1ST FLR. DECKS	481 SQ. FT.
		2ND FLR. DECKS	112.6 SQ. FT.
		ROOF DECK	370.5 SQ. FT.
		ROOF SHWR	461.9 SQ. FT.
		OUTDOOR SHWR	32 SQ. FT.
		VOLUME	35,001.4 CU. FT.
		NOTE:	NUMBERS INDICATED ARE IN SQUARE FEET U.N.O.
STAIR NOTES		GENERAL NOTES	
-INTERIOR STAIR TREADS SHALL BE 10" MIN. PLUS 1" NOSING (TYP.) UNLESS NOTED OTHERWISE		-ALL DIMENSIONS ARE TO ROUGH FRAMING.	
-EXTERIOR STAIR TREADS SHALL BE 10" MIN. PLUS 1" NOSING (TYP.) UNLESS NOTED OTHERWISE		-ALL EXTERIOR WALLS SHALL BE 2x6 STUDS AT 16" O.C. MAX. UNLESS OTHERWISE NOTED.	
-STAIR RISER HEIGHT SHALL BE 8 1/4" MAXIMUM.		-ALL INTERIOR WALLS SHALL BE 2x4 STUDS AT 16" O.C. MAX. UNLESS OTHERWISE NOTED.	
-ALL HANDRAILS SHALL BE 36" ABOVE NOSING (TYPICAL)		-ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED.	
-ALL HANDRAIL GRIP SIZES SHALL BE 1 1/2" DIA. MIN. TO 2" DIA. MAX.		-ALL EXTERIOR DECK LUMBER SHALL BE PRESSURE TREATED.	
-ALL GUARDRAILS SHALL BE 36" MIN. ABOVE FLOOR (TYPICAL)		-ALL CONCRETE USED FOR SLABS AND FOOTINGS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS.	
-ALL BALUSTERS SHALL BE CONSTRUCTED SO ALL OPENINGS ARE LESS THAN 4" (TYP.)		-THE BOTTOM OF EACH FLOOR VENT OPENING MUST BE NOT MORE THAN 1 FOOT ABOVE THE HIGHER OF THE FINAL INTERIOR GRADE (OR FLOOR) AND THE FINISHED EXTERIOR GRADE IMMEDIATELY UNDER EACH OPENING.	
-ALL WD. HANDRAILS, GUARDRAILS & BALUSTERS EXPOSED TO THE WEATHER SHALL BE PRESSURE TREATED		-WHERE DRAWINGS ARE IN CONFLICT WITH OTHER DRAWINGS, CONTRACTOR SHALL NOTIFY THE ARCHITECT.	
-WHERE GLAZING IS LESS THAN 180 DEGREES FROM THE PLACE OF A DOOR IN A CLOSED POSITION AND WITHIN 24" OF THE HINGE SIDE OF AN INSWINGING DOOR		-WINDOW MODEL # ARE BASED ON "400 SERIES" BY "ANDERSEN WINDOW CORP." MODELS. CONTRACTOR TO VERIFY EGRESS / MIN. 24" SILL HEIGHT WHEN SUBSTITUTING MANUFACTURER.	
-GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36" ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION.		-PROVIDE TEMPERED GLASS AT THE FOLLOWING LOCATIONS: -IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARC OF THE DOOR IN A CLOSED POSITION	
-FIRE STOPPING SHALL BE INSTALLED AT ALL FLR./CLG. & CLG./ROOF LEVELS, INCLUDING FLUE / FIREPLACE CHASE		-FIRE STOPPING TO BE MIN. 3/4" PLYWOOD SHEATHING.	
-FIRE STOPPING TO BE MIN. 3/4" PLYWOOD SHEATHING.		-FILL ALL ANNULAR SPACES OF FIRE STOPPING PENETRATIONS w/ AN APPROVED FIRE STOPPING.	
-ELEVATORS THAT DO NOT REQUIRE A MACHINE ROOM SHALL HAVE A SMOKE DETECTOR OR SPRINKLER HEAD LOCATED WITHIN THE ELEV. SHAFT.		-PROVIDE CEMENT BOARD TILE BACKER AT ALL WET WALL AREAS (SHOWER AND TUB AREAS)	
		-PROVIDE PORTABLE FIRE EXTINGUISHER AT KITCHEN AREA	
		-PROVIDE TWO VENTS IN ANY CONDITIONED ROOM w/ A GAS APPLIANCE IF THERE IS NO DIRECT VENT. ONE VENT WITHIN 1'-0" OF THE CEILING, AND ONE VENT WITHIN 1'-0" OF THE FLOOR. EACH VENT TO BE A MIN. OF 1 SQ. IN. / 1,000 BTU. PER LATEST EDITION OF THE NJ EDITION IF THE IRC, SECTION 62407.	
RESIDENTIAL ELEVATOR		WALLS AND PROJECTIONS LESS THAN 5'-0" FROM PROPERTY LINE	
1HR SHAFT SEP. ASSEM. BASED ON F.M.F.C-172 (1) LAYERS 5/8" TYPE 'X' G.W.B. ON INSIDE AND (1) LAYER 5/8" TYPE 'X' G.W.B. ON EXTERIOR OF ELEV. SHAFT ABOVE D.F.E.		-ALL WALLS AND PROJECTIONS PARALLEL TO THE PROPERTY LINE LESS THAN 5 FEET AND SHALL BE 1-HOUR RATED AND CONSTRUCTED PER U.L. DESIGN U305. (1) LAYER 5/8" TYPE 'X' G.W.B. SHALL BE SUPPLIED TO BOTH SIDES OF THE WALL. (2) LAYERS 5/8" TYPE 'X' G.W.B. SHALL BE SUPPLIED TO UNDERSIDE OF ALL PROJECTIONS.	
PROVIDE (1) LAYER 5/8" FIREHESITANT WALLBOARD BY NATIONAL Gypsum COMPANY, OR APPROVED, EQUAL ON INSIDE AND ON OUTSIDE OF ELEV. SHAFT, BELOW D.F.E.		-PROVIDE (1) LAYER 5/8" TYPE 'X' G.W.B. AT ALL WALLS AND FLOOR/CEILING ASSEMBLIES (UNLESS NOTED OTHERWISE BELOW)	
		-PROVIDE (2) LAYERS 5/8" TYPE 'X' AT ALL ROOF/CEILING ASSEMBLIES PER F.M.F.C.-172.	
		-PROVIDE (1) LAYER 5/8" TYPE 'X' G.W.B. AT ENTIRE CEILING AT GROUND FLOOR	
		-PROVIDE (2) LAYERS 5/8" TYPE 'X' AT DROPPED BEAM IN GARAGE. FIRE RATED G.W.B. MAY BE OMITTED FOR COMMODITY OR ENGINEERED BEAMS LARGER THAN (3) 2X10 MEMBERS PER FTO-13.	
		-PROVIDE (2) LAYER 5/8" TYPE 'X' G.W.B. @ DROPPED HVAC SOFFIT @ GARAGE.	
		-DUCTWORK LOCATED BELOW FIRE RATED ASSEMBLY AT THE GARAGE SHALL BE WRAPPED w/ (2) LAYERS 5/8" TYPE 'X' G.W.B. OR FIRE DAMPERS SHALL BE PROVIDED AT ALL PENETRATIONS.	
		-ENGINEERED WOOD PRODUCTS - CUTS, NOTCHES AND HOLES BORED IN TRUSSES, STRUCTURAL COMPOSITE LUMBER, STRUCTURAL GLUE LAMINATED MEMBERS OR JOISTS ARE PROHIBITED EXCEPT WHERE PERMITTED BY THE MANUFACTURER'S RECOMMENDATIONS, PER NJ IRC, SECTION R502.8.2	
		-DUCTWORK LOCATED BELOW FIRE RATED ASSEMBLY AT THE GARAGE SHALL BE WRAPPED w/ (2) LAYERS 5/8" TYPE 'X' G.W.B. OR FIRE DAMPERS SHALL BE PROVIDED AT ALL PENETRATIONS.	
		-PROVIDE UL LISTED RECESSED LIGHT FIXTURES IN 1 HR RATED FLOOR/CEILING OR FIRE RATED LIGHT FIXTURES OR FIRE RATED LIGHT FIXTURES OR FIRE RATED LIGHT FIXTURES MAY BE OMITTED IF MEMBRANE PENETRATIONS DO NOT EXCEED 16 SQ. IN. IN AREA AND PROVIDED THAT THE OPENINGS OF MEMBRANES DO NOT EXCEED 100 SQ. IN. IN ANY 100 SQ. FT. OF CEILING AREA AND PROVIDED THAT SOLID FIRE BLOCKING IS INSTALLED.	
		-PROVIDE EXHAUST FANS w/ HARD DUCT AT CEILING/ROOF ASSEMBLIES. EXHAUST DIRECTLY TO EXTERIOR.	
		-PROVIDE 1 HR RATED FIRE COLLARS FOR ALL PLUMBING PENETRATIONS OVER 2 INCHES.	
		-ALL DUCTWORK PROVIDED IN 1 HR RATED FLOOR/CEILING ASSEMBLIES OF SECOND FLOOR TO BE HARD DUCT ONLY.	
		-FIRE DAMPERS REQUIRED AT CEILING LINE OF ROOF/CEILING ASSEMBLY OR BE PROVIDED w/ HARD DUCT THROUGHOUT.	
PILE KEY		REVISIONS	
10" DIA. P.T. STUB PILE x32"D. (MIN.), SEE PLAN		No.	Date
12" DIA. P.T. PILE x20'-0" L. (MIN.)		Description	
10" DIA. P.T. PILE x20'-0" L. (MIN.) 15 TON CAPACITY			
10" DIA. P.T. PILE x30'-0" L. (MIN.)			
10" DIA. P.T. PILE x35'-0" L. (MIN.) EXTEND TO UNDERSIDE OF FLOOR SHEATHING			
BEARING CAPACITY TO BE MINIMUM: 10 TON FOR HOUSE PILES 7 TON FOR DECK PILES PILES TO BE DRIVEN TO (10'-0") M.S.L. MIN. -PILE TO BE NOTCHED FOR BANDS NO MORE THAN 50% OF THE PILE DIAMETER. -COPPER NAPHTHENATE TREATMENT SHALL BE FIELD APPLIED TO THE CUT END OF P.T. PILE, WHEN IN CONTACT WITH CONCRETE.		DATE	11/22/2023
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		SHEET	A-1
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ARCHITECTURE

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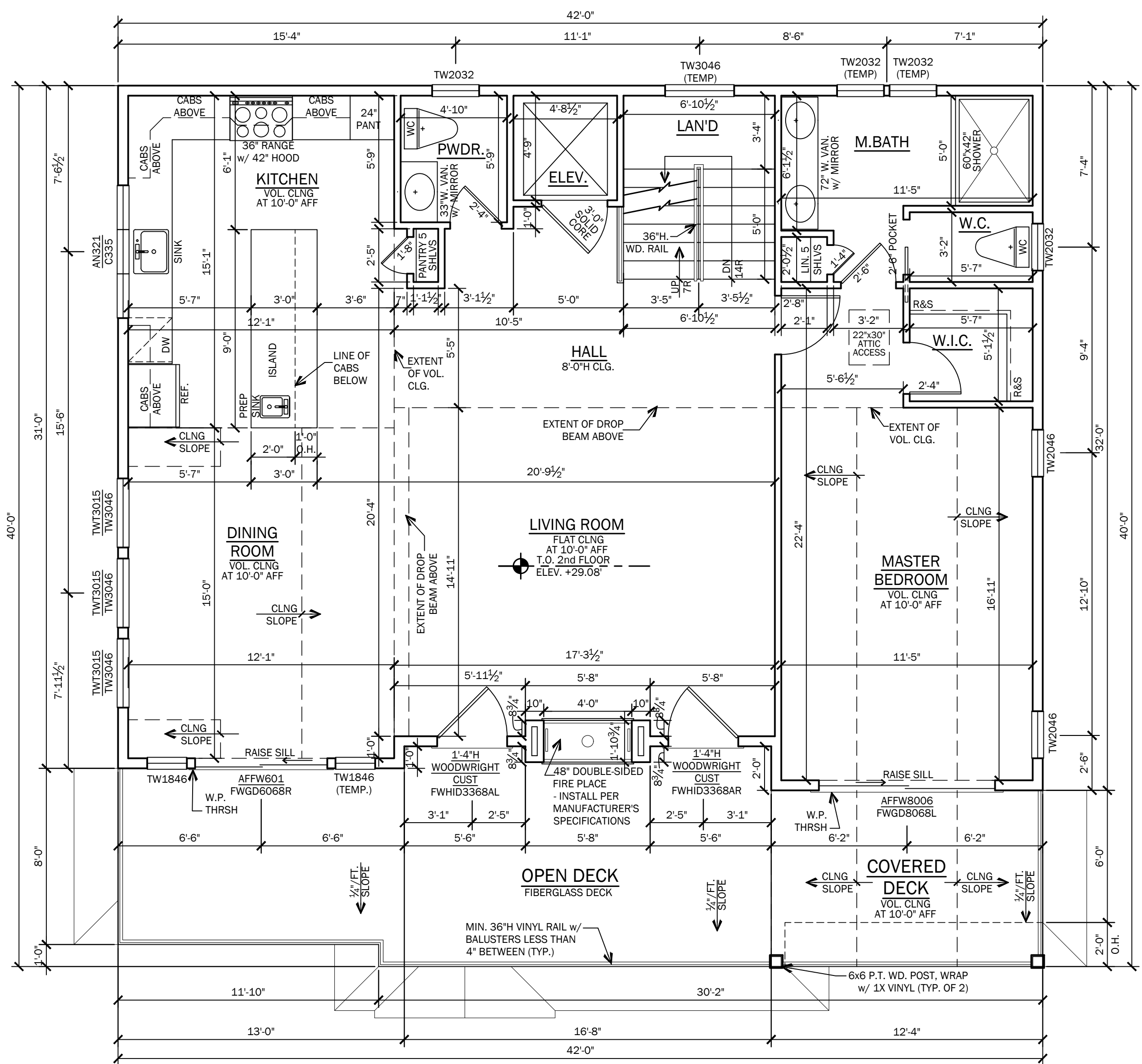
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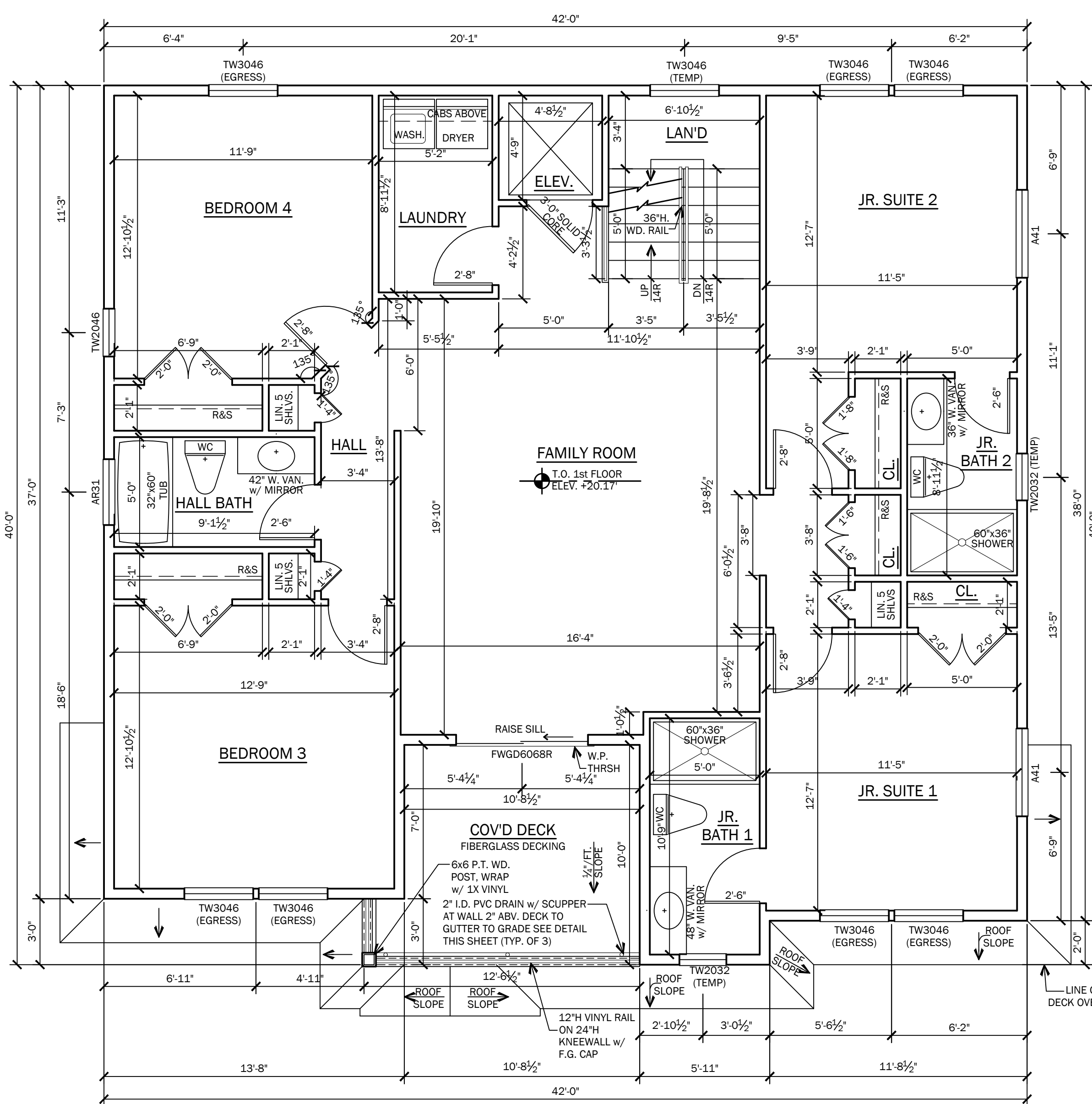
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P.L.L.C. #NJ-021771  
Piling Engineer





**SECOND FLOOR PLAN**  
1/4" = 1'-0"



**FIRST FLOOR PLAN**  
1/4" = 1'-0"

FLOOR AREA	
TOTAL SITE AREA	4,977 SQ.FT.
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OUTDOOR SHWR	32 SQ.FT.
VOLUME	35,001.4 CU.FT.
NOTE: NUMBERS INDICATED ARE IN SQUARE FEET U.N.O.	

**GENERAL NOTES**

- ALL DIMENSIONS ARE TO ROUGH FRAMING.
- ALL EXTERIOR WALLS SHALL BE 2x6 STUDS AT 16" O.C. MAX. UNLESS OTHERWISE NOTED.
- ALL INTERIOR WALLS SHALL BE 2x4 STUDS AT 16" O.C. MAX. UNLESS OTHERWISE NOTED.
- ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED.
- ALL EXTERIOR DECK LUMBER SHALL BE PRESSURE TREATED.
- ALL CONCRETE USED FOR SLABS AND FOOTINGS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS.
- THE BOTTOM OF EACH FLOOD VENT OPENING MUST BE NOT MORE THAN 1 FOOT ABOVE THE HIGHER OF THE FINAL INTERIOR GRADE (OR FLOOR) AND THE FINISHED EXTERIOR GRADE IMMEDIATELY UNDER EACH OPENING.
- WHERE DRAWINGS ARE IN CONFLICT WITH OTHER DRAWINGS, CONTRACTOR SHALL NOTIFY THE ARCHITECT.
- WINDOW MODEL # ARE BASED ON "400 SERIES" BY "ANDERSEN WINDOW CORP." MODELS. CONTRACTOR TO VERIFY EGRESS / MIN. 24" SILL HEIGHT WHEN SUBSTITUTING MANUFACTURER.
- PROVIDE TEMPERED GLASS AT THE FOLLOWING LOCATIONS:
  - IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARC OF THE DOOR IN A CLOSED POSITION
  - WHERE GLAZING IS LESS THAN 180 DEGREES FROM THE PLACE OF A DOOR IN A CLOSED POSITION AND WITHIN 24" OF THE HINGE SIDE OF AN INSWINGING DOOR
  - IN BATHROOMS, SHOWERS AND OVER WHIRLPOOLS, WHERE THE BOTTOM EDGE IF THE GLAZING IS LESS THAN 60" ABOVE ANY STANDING OR WALKING SURFACE.
  - GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36" ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION.
- PROVIDE PORTABLE FIRE EXTINGUISHER AT KITCHEN AREA
- PROVIDE TWO VENTS IN ANY CONDITIONED ROOM w/ A GAS APPLIANCE IF THERE IS NO DIRECT VENT. ONE VENT WITHIN 1'-0" OF THE CEILING, AND ONE VENT WITHIN 1'-0" OF THE FLOOR. EACH VENT TO BE A MIN. OF 1 SQ. IN. / 1000 BTU. PER LATEST EDITION OF THE NJ EDITION IF THE IRC, SECTION G2407.

**ATTIC VENT**

MAIN ROOF	2.51 SQ. FT.
RIDGE AREA	2.51 SQ. FT.
SOFFIT AREA	2.51 SQ. FT.

**SOFFIT NOTE**

PROVIDE EXTERIOR GRADE G.W.B. AT ANY CEILING EXPOSED TO WEATHER, UNLESS NOTED OTHERWISE.

**AIR INFILTRATION BARRIER**

- PER 2021 IECC, SECTION 402.4.1. THE BUILDING THERMAL ENVELOPE SHALL BE DURABLY SEALED TO LIMIT INFILTRATION. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR THE DIFFERENTIAL EXPANSION AND CONTRACTION. THE FOLLOWING SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL, SUITABLE FILM OR SOLID MATERIAL:
  - ALL JOINTS, SEAMS, AND PENETRATIONS SITE-BUILT WINDOWS, DOORS, AND SKYLIGHTS
  - OPENINGS BETWEEN WINDOW AND DOOR ASSEMBLIES AND THEIR RESPECTIVE JAMBS AND FRAMING
  - UTILITY PENETRATIONS
  - DROPPED CEILINGS OR CHASES ADJACENT TO THE THERMAL ENVELOPE
  - KNEE WALLS
  - WALLS AND CEILINGS SEPARATING A GARAGE FROM CONDITIONED SPACES
  - BEHIND TUBS AND SHOWERS ON EXTERIOR WALLS
  - COMMON WALLS BETWEEN DWELLING UNITS
  - ATTIC ACCESS OPENINGS
  - RIM JOIST JUNCTION
  - OTHER SOURCES OF INFILTRATION

**STAIR NOTES**

- INTERIOR STAIR TREADS SHALL BE 10" MIN. PLUS 1" NOSING (TYP.) UNLESS NOTED OTHERWISE.
- EXTERIOR STAIR TREADS SHALL BE 10" MIN. PLUS 1" NOSING (TYP.) UNLESS NOTED OTHERWISE.
- STAIR RISER HEIGHT SHALL BE 8 1/2" MAXIMUM.
- ALL HANDRAILS SHALL BE 36" ABOVE NOSING (TYPICAL).
- ALL HANDRAIL GRIP SIZES SHALL BE 1 1/2" DIA. MIN. TO 2" DIA. MAX.
- ALL GUARDRAILS SHALL BE 36" MIN. ABOVE FLOOR (TYPICAL).
- ALL BALUSTERS SHALL BE CONSTRUCTED SO ALL OPENINGS ARE LESS THAN 4" (TYP.)
- ALL WD. HANDRAILS, GUARDRAILS & BALUSTERS EXPOSED TO THE WEATHER SHALL BE PRESSURE TREATED.
- NOTES:
  - ALL GARAGE DOORS TO BE WIND RESISTANT TO 115 MPH.

**OUTDOOR SHOWER**

THE OUTDOOR SHOWER SHALL HAVE COLD WATER ONLY AND NO FLOOR DRAIN. OUTDOOR SHOWER TO BE ON P.T. WD. PLATFORM AT GRADE ON UNDISTURBED SOIL WITH 4" DIA. DRAIN TO FRENCH DRAIN TO YARD.

**WALLS AND PROJECTIONS LESS THAN 5'-0" FROM PROPERTY LINE**

ALL WALLS AND PROJECTIONS PARALLEL TO THE PROPERTY LINE LESS THAN 5 FEET AND SHALL BE 1-HOUR RATED AND CONSTRUCTED PER U.L. DESIGN U305. (1) LAYER 5/8" TYPE 'X' G.W.B. SHALL BE SUPPLIED TO BOTH SIDES OF THE WALL. (2) LAYERS 5/8" TYPE 'X' G.W.B. SHALL BE SUPPLIED TO UNDERSIDE OF ALL PROJECTIONS.

**5A CONST. NOTE**

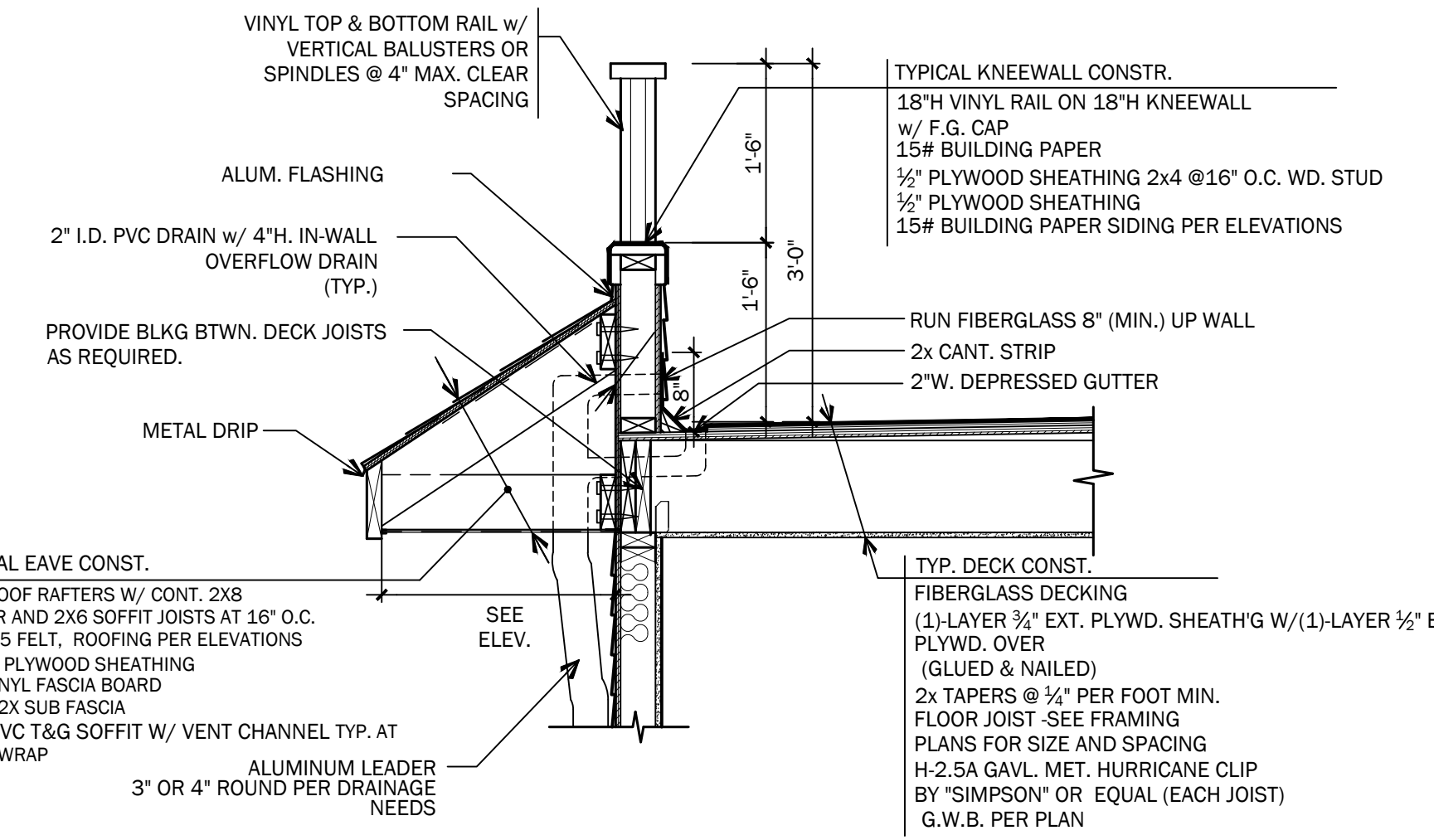
- PROVIDE (1) LAYER 3/8" TYPE 'X' G.W.B. AT ALL WALLS AND FLOOR/CEILING ASSEMBLIES (UNLESS NOTED OTHERWISE BELOW)
- PROVIDE (2) LAYERS 3/8" TYPE 'X' AT ALL ROOF/CEILING ASSEMBLIES PER F.M.F.C.-172.
- PROVIDE (1) LAYER 3/8" TYPE 'X' G.W.B. AT ENTIRE CEILING AT GROUND FLOOR
- PROVIDE (2) LAYERS 3/8" TYPE 'X' AT DROPPED BEAM IN GARAGE. FIRE RATED GWB MAY BE OMITTED FOR COMMODITY OR ENGINEERED BEAMS LARGER THAN (3) 2X10 MEMBERS PER FTO-13.
- PROVIDE (2) LAYER 3/8" TYPE 'X' G.W.B. @ DROPPED HVAC SOFFIT @ GARAGE.
- DUCTWORK LOCATED BELOW FIRE RATED ASSEMBLY AT THE GARAGE SHALL BE WRAPPED w/ (2) LAYERS 3/8" TYPE 'X' G.W.B. OR FIRE DAMPERS SHALL BE PROVIDED AT ALL PENETRATIONS.
- PROVIDE UL LISTED RECESSED LIGHT FIXTURES IN 1 HR RATED FLOOR/CEILING OR FIRE RATED LIGHT COVERS. UL LISTED LIGHT FIXTURES OR FIRE RATED LIGHT COVERS MAY BE OMITTED IF MEMBRANE PENETRATIONS DO NOT EXCEED 16 SQ.IN. IN AREA AND PROVIDED THAT THE OPENINGS OF MEMBRANES DO NOT EXCEED 100 SQ.IN. IN ANY 100 SQ.FT. OF CEILING AREA AND PROVIDED THAT SOLID FIRE BLOCKING IS INSTALLED.

**FLOOD RESISTANT CONSTRUCTION NOTE**

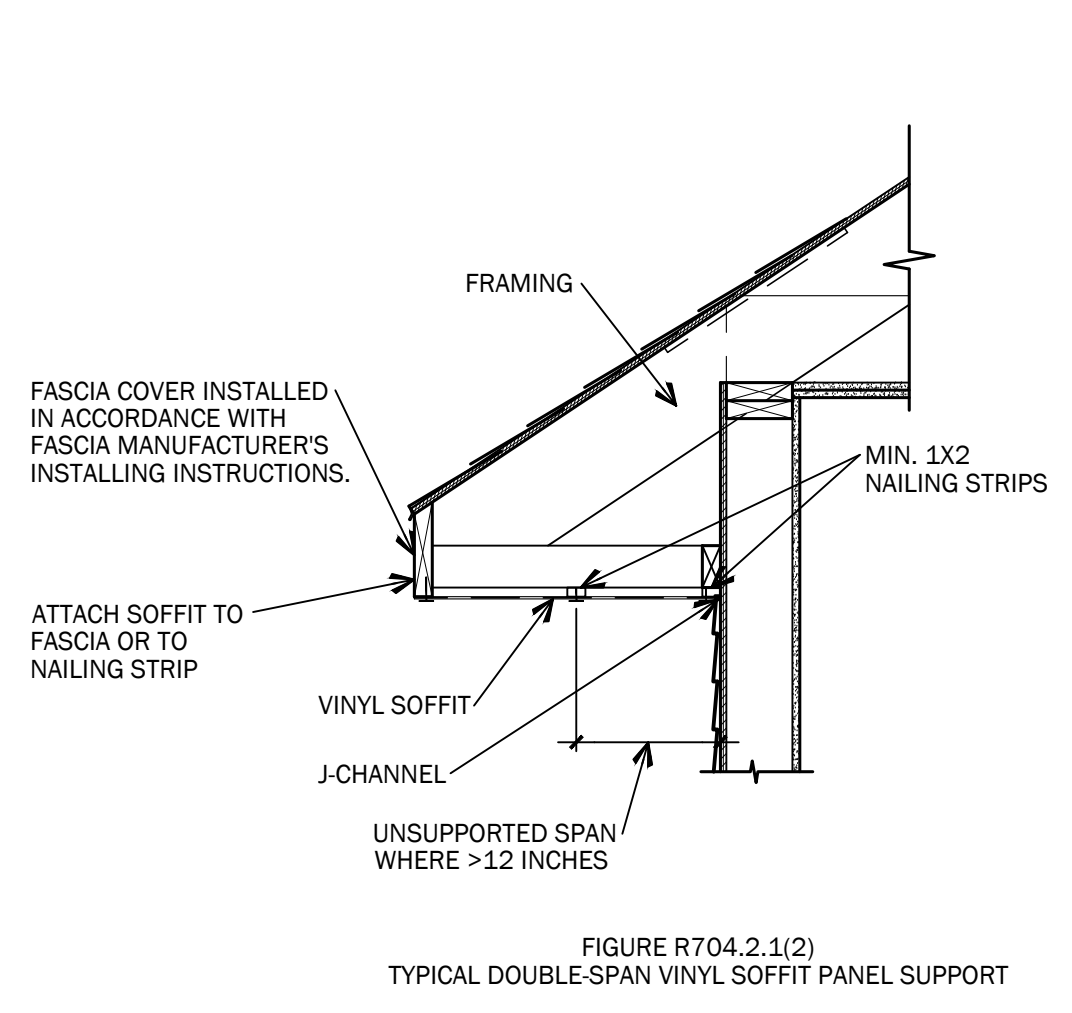
- PROVIDE EXHAUST FANS w/ HARD DUCT AT CEILING/ROOF ASSEMBLIES. EXHAUST DIRECTLY TO EXTERIOR.
- PROVIDE 1 HR RATED FIRE COLLARS FOR ALL PLUMBING PENETRATIONS OVER 2 INCHES.
- ALL DUCTWORK PROVIDED IN 1 HR RATED FLOOR/CEILING ASSEMBLIES OF SECOND FLOOR TO BE HARD DUCT ONLY.
- FIRE DAMPERS REQUIRED AT CEILING LINE OF ROOF/CEILING ASSEMBLY OR BE PROVIDED w/ HARD DUCT THROUGHOUT.

**GENERAL NOTES**

- ALL DIMENSIONS ARE TO ROUGH FRAMING.
- ALL EXTERIOR WALLS SHALL BE 2x6 STUDS AT 16" O.C. MAX. UNLESS OTHERWISE NOTED.
- ALL INTERIOR WALLS SHALL BE 2x4 STUDS AT 16" O.C. MAX. UNLESS OTHERWISE NOTED.
- ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED.
- ALL EXTERIOR DECK LUMBER SHALL BE PRESSURE TREATED.
- ALL CONCRETE USED FOR SLABS AND FOOTINGS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS.
- THE BOTTOM OF EACH FLOOD VENT OPENING MUST BE NOT MORE THAN 1 FOOT ABOVE THE HIGHER OF THE FINAL INTERIOR GRADE (OR FLOOR) AND THE FINISHED EXTERIOR GRADE IMMEDIATELY UNDER EACH OPENING.
- WHERE DRAWINGS ARE IN CONFLICT WITH OTHER DRAWINGS, CONTRACTOR SHALL NOTIFY THE ARCHITECT.
- WINDOW MODEL # ARE BASED ON "400 SERIES" BY "ANDERSEN WINDOW CORP." MODELS. CONTRACTOR TO VERIFY EGRESS / MIN. 24" SILL HEIGHT WHEN SUBSTITUTING MANUFACTURER.
- PROVIDE TEMPERED GLASS AT THE FOLLOWING LOCATIONS:
  - IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST VERTICAL EDGE IS WITHIN A 24" ARC OF THE DOOR IN A CLOSED POSITION
  - WHERE GLAZING IS LESS THAN 180 DEGREES FROM THE PLACE OF A DOOR IN A CLOSED POSITION AND WITHIN 24" OF THE HINGE SIDE OF AN INSWINGING DOOR
  - IN BATHROOMS, SHOWERS AND OVER WHIRLPOOLS, WHERE THE BOTTOM EDGE IF THE GLAZING IS LESS THAN 60" ABOVE ANY STANDING OR WALKING SURFACE.
  - GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36" ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS AND RAMPS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION.
- PROVIDE PORTABLE FIRE EXTINGUISHER AT KITCHEN AREA
- PROVIDE TWO VENTS IN ANY CONDITIONED ROOM w/ A GAS APPLIANCE IF THERE IS NO DIRECT VENT. ONE VENT WITHIN 1'-0" OF THE CEILING, AND ONE VENT WITHIN 1'-0" OF THE FLOOR. EACH VENT TO BE A MIN. OF 1 SQ. IN. / 1000 BTU. PER LATEST EDITION OF THE NJ EDITION IF THE IRC, SECTION G2407.



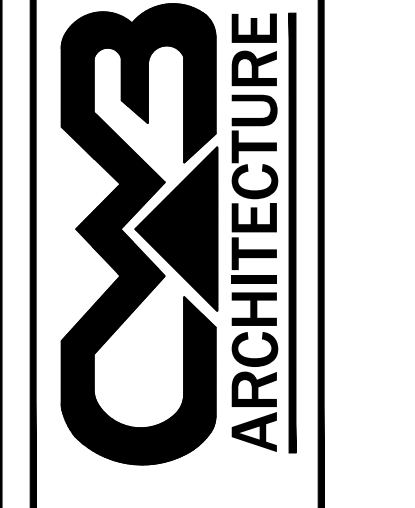
**SCUPPER DETAIL**  
N.T.S.



**TYPICAL DOUBLE SPAN SOFFIT DETAIL**  
N.T.S.

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ARMINIO RESIDENCE  
LOT: 18 BLOCK: 15-26  
14 EAST SIGSBEE AVE. LONG BEACH TOWNSHIP - BRANT BEACH  
OCEAN COUNTY, NEW JERSEY  
FLOOR PLANS

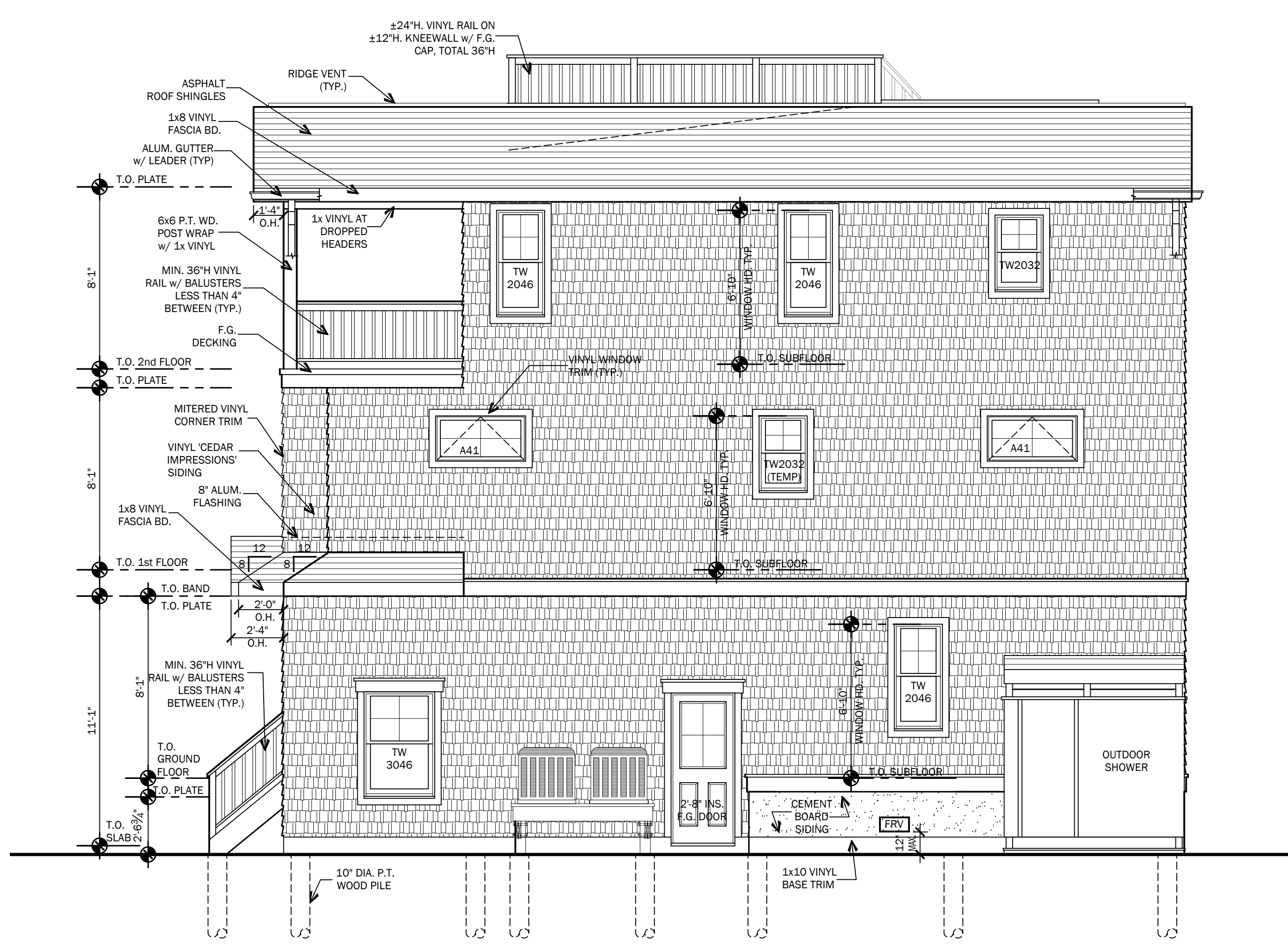
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**DATE**  
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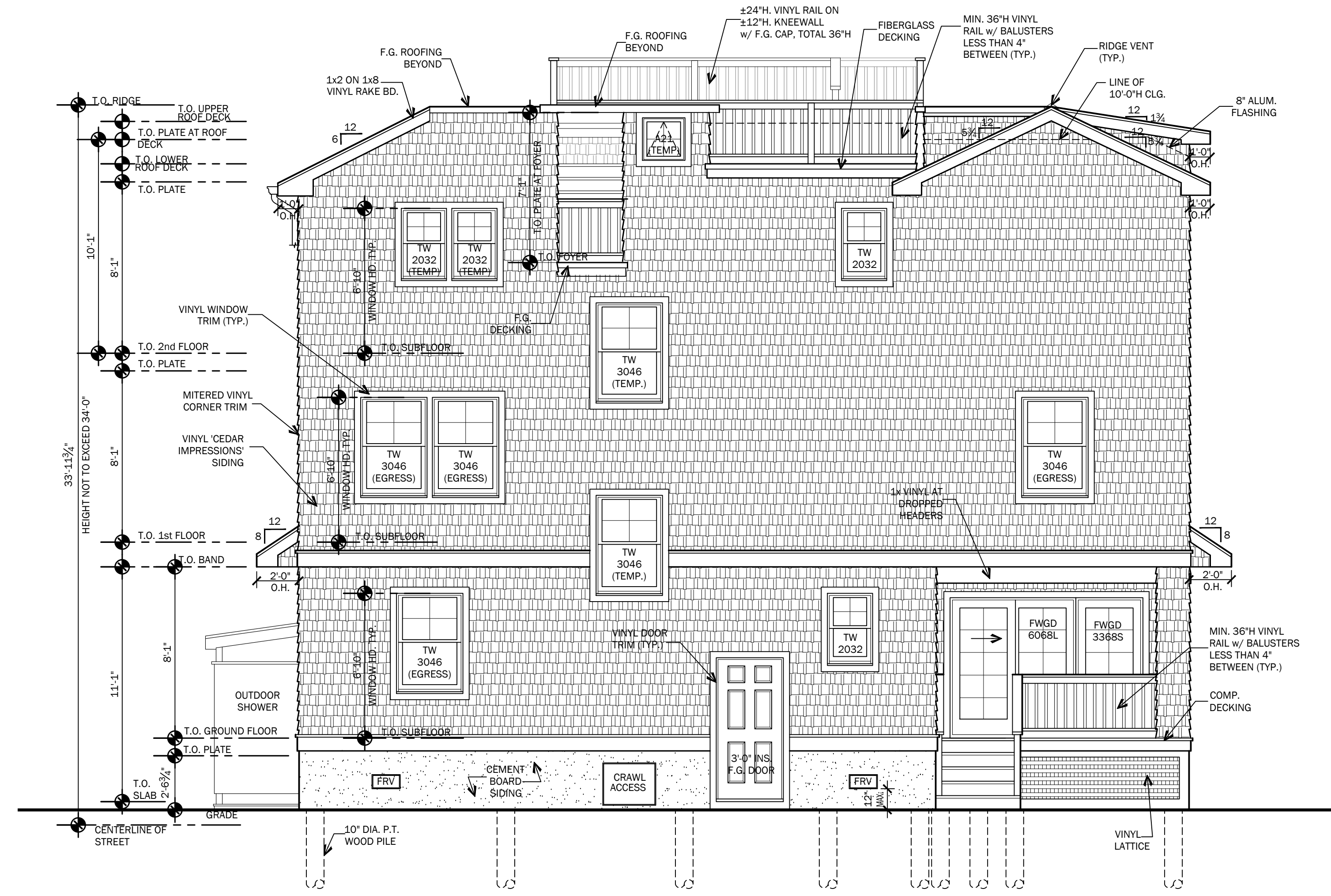
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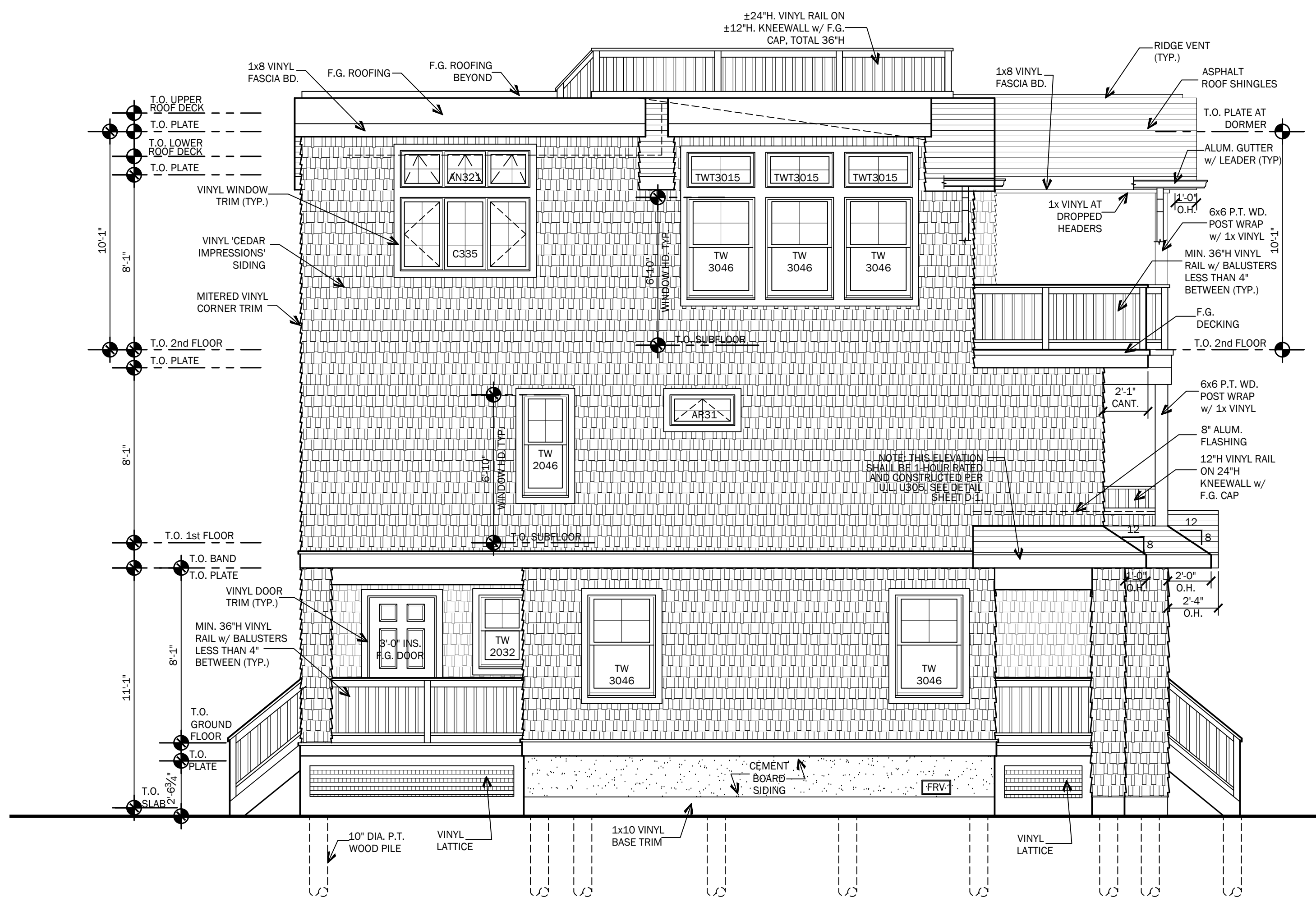
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**A-2**  
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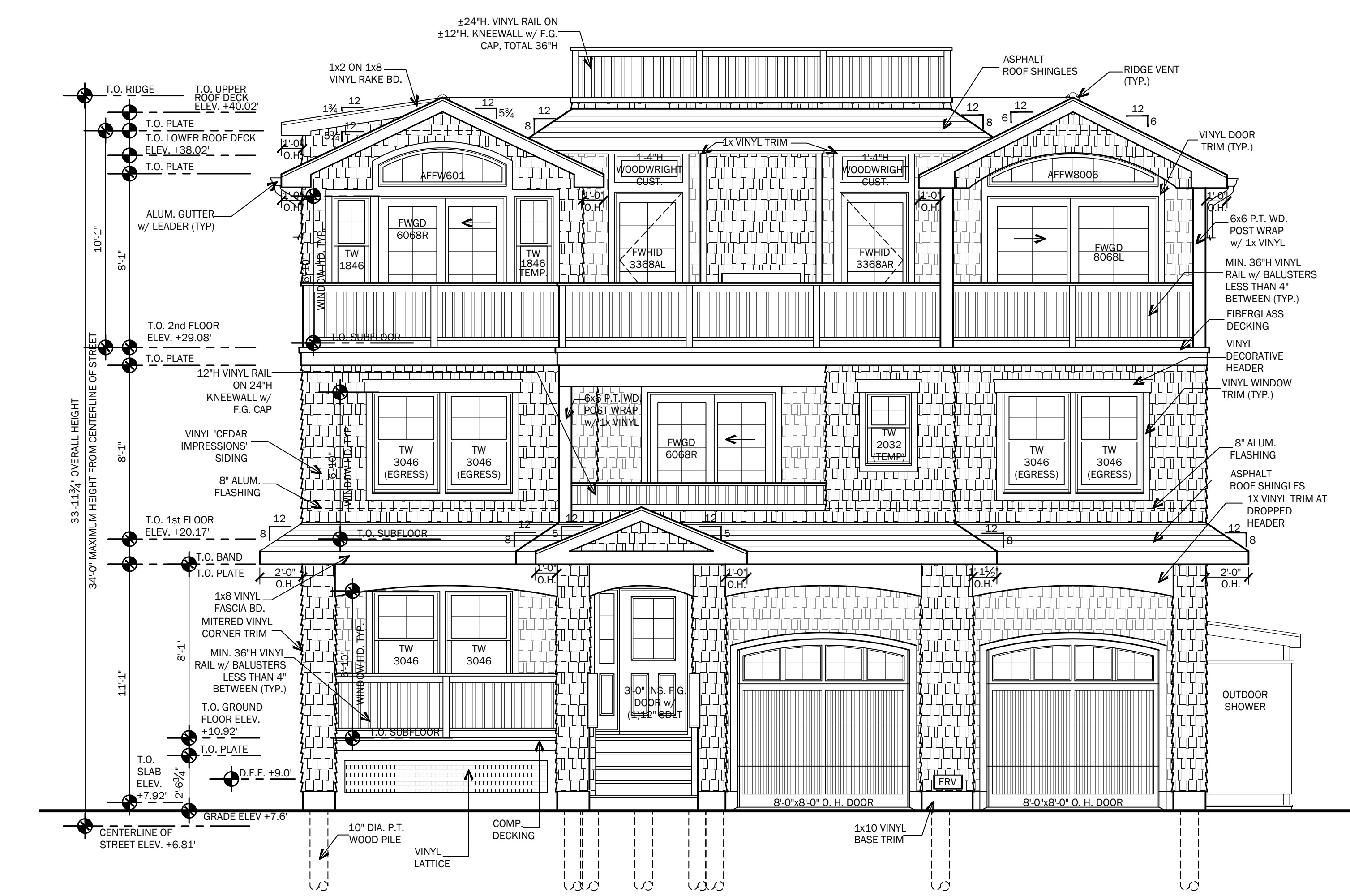
**RIGHT SIDE ELEVATION**  
1/4" = 1'-0"



**REAR ELEVATION**  
1/4" = 1'-0"



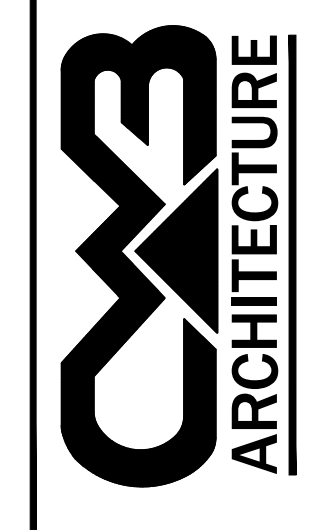
**LEFT SIDE ELEVATION**  
1/4" = 1'-0"



**FRONT ELEVATION**  
1/4" = 1'-0"

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**ARMINIO RESIDENCE**  
LOT: 18 BLOCK: 15.26  
14 EAST SIGSBEE AVE. LONG BEACH TOWNSHIP - BRANT BEACH  
OCEAN COUNTY, NEW JERSEY

REVISIONS	
No.	Description

DATE  
11/22/2023

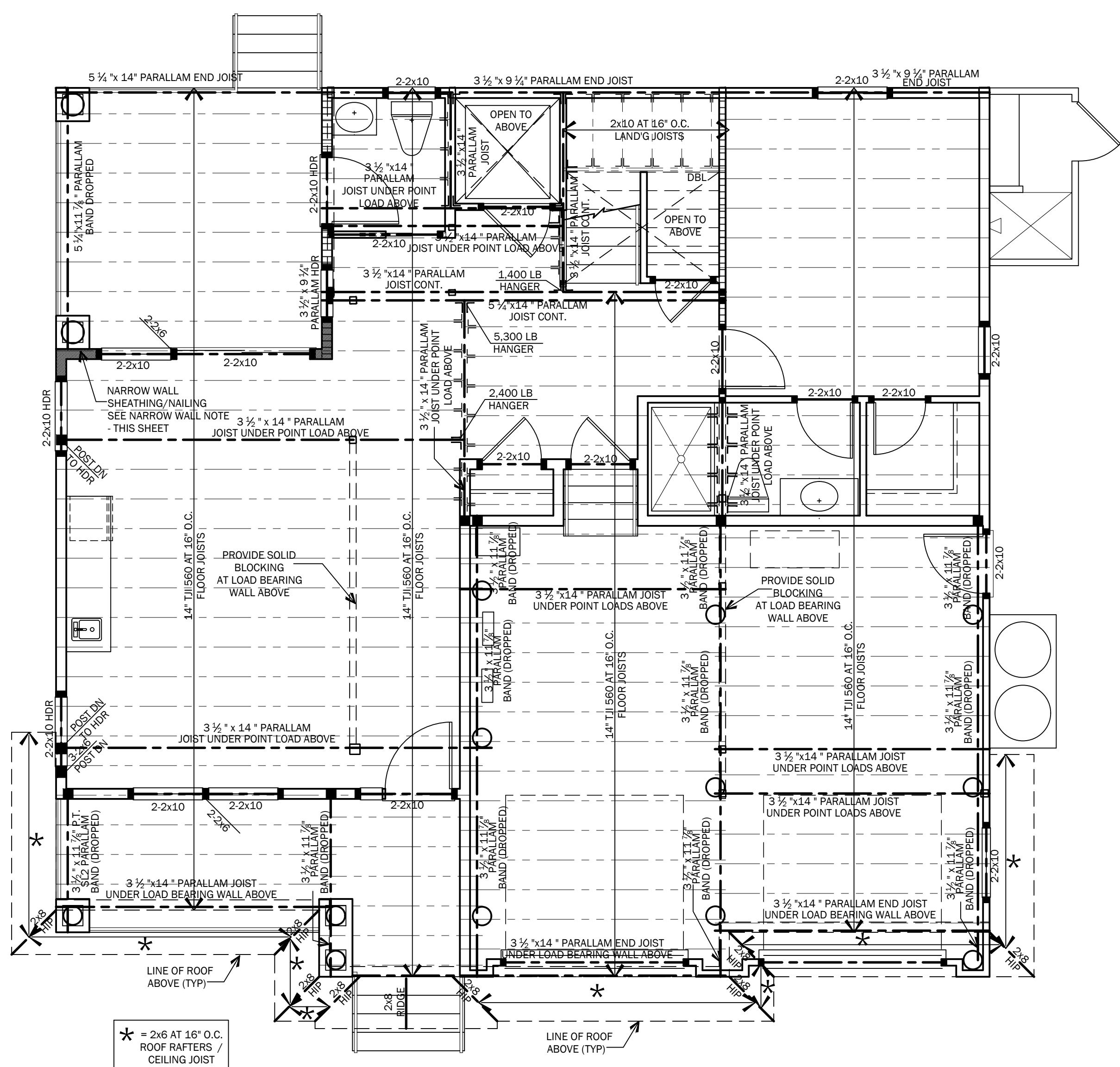
COMM. No.  
23080

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DHT/BNR

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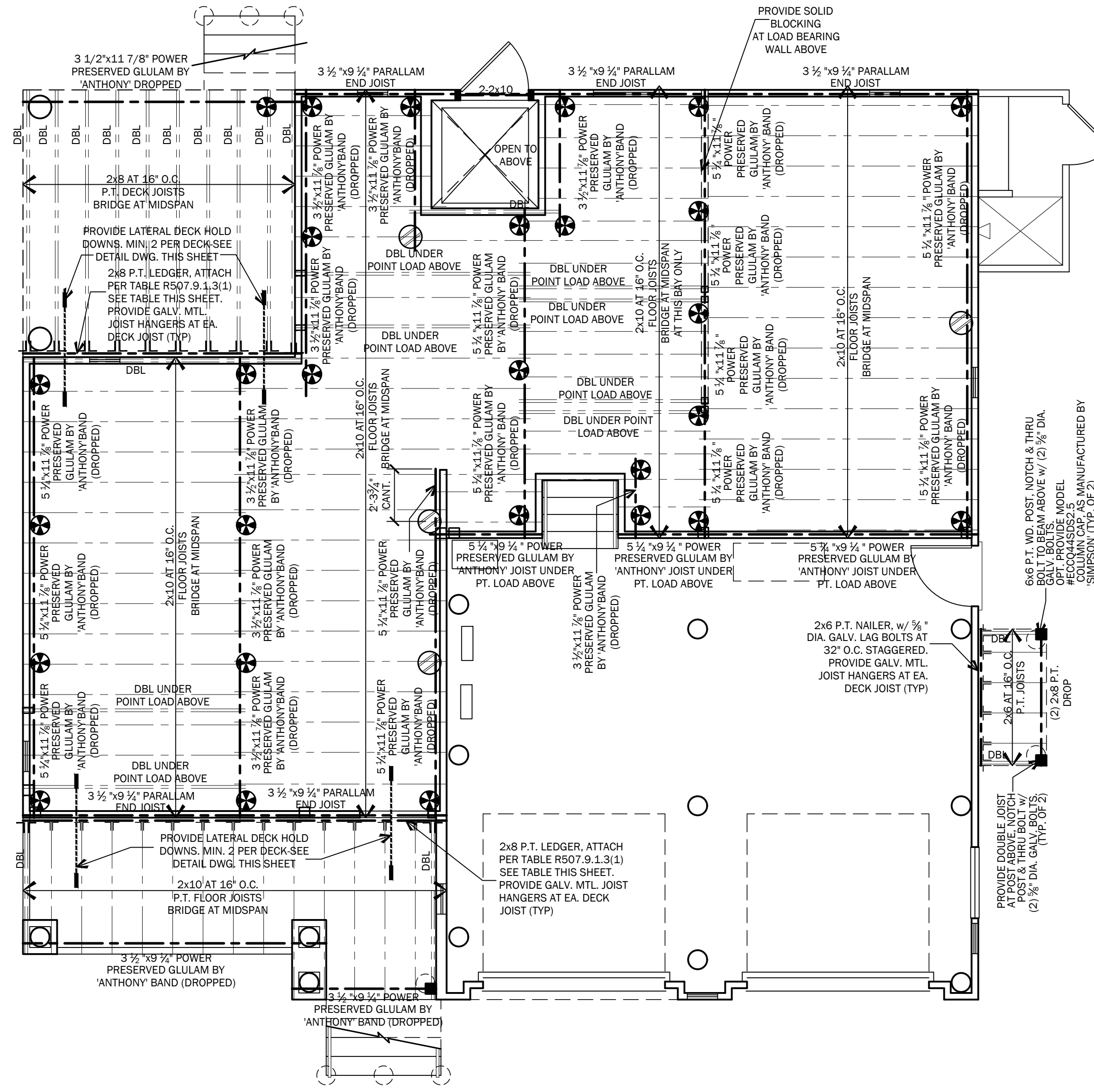
ELEVATIONS





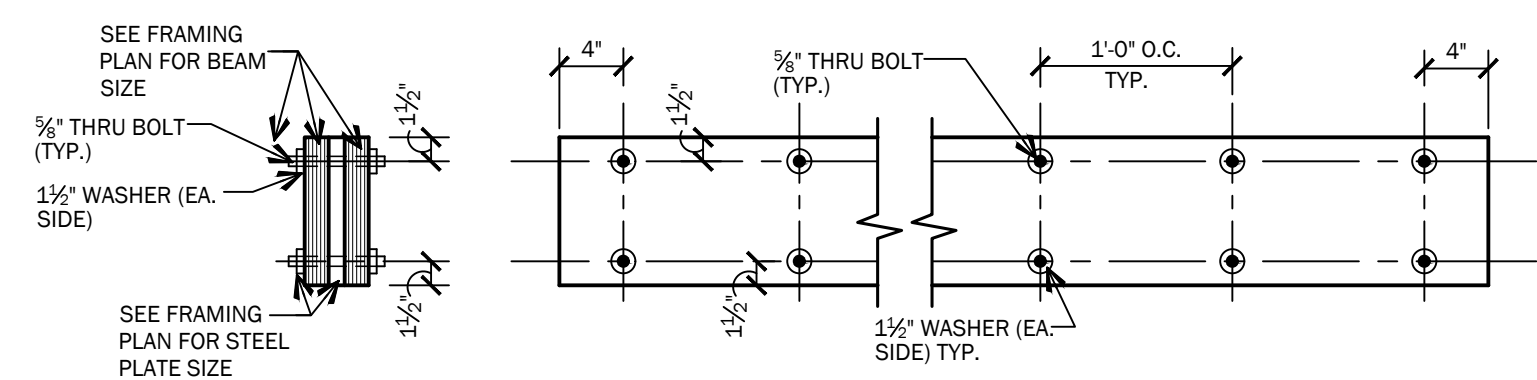
**FIRST FLOOR FRAMING PLAN**

1/4" = 1'-0"



**GROUND FLOOR FRAMING PLAN**

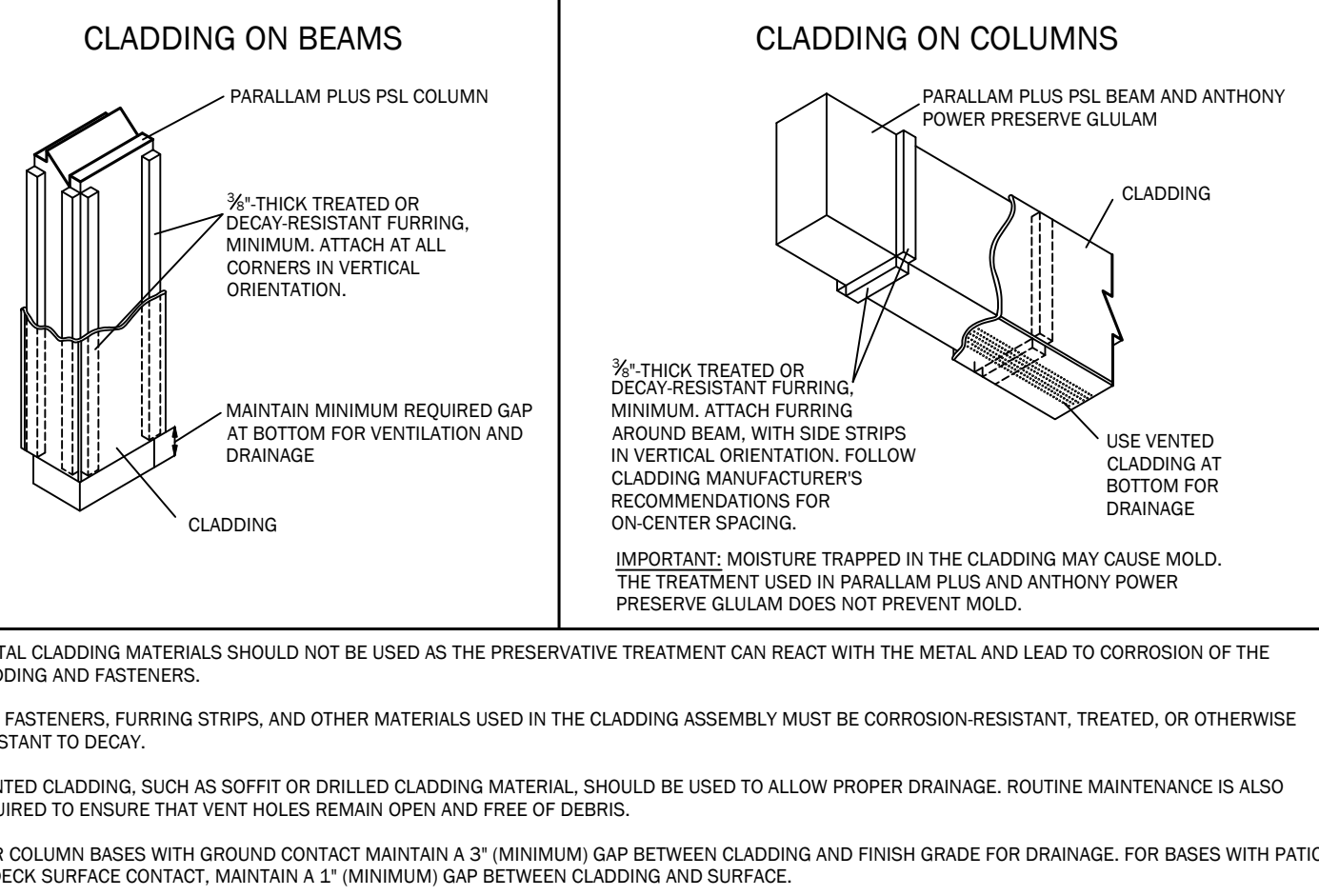
1/4" = 1'-0"



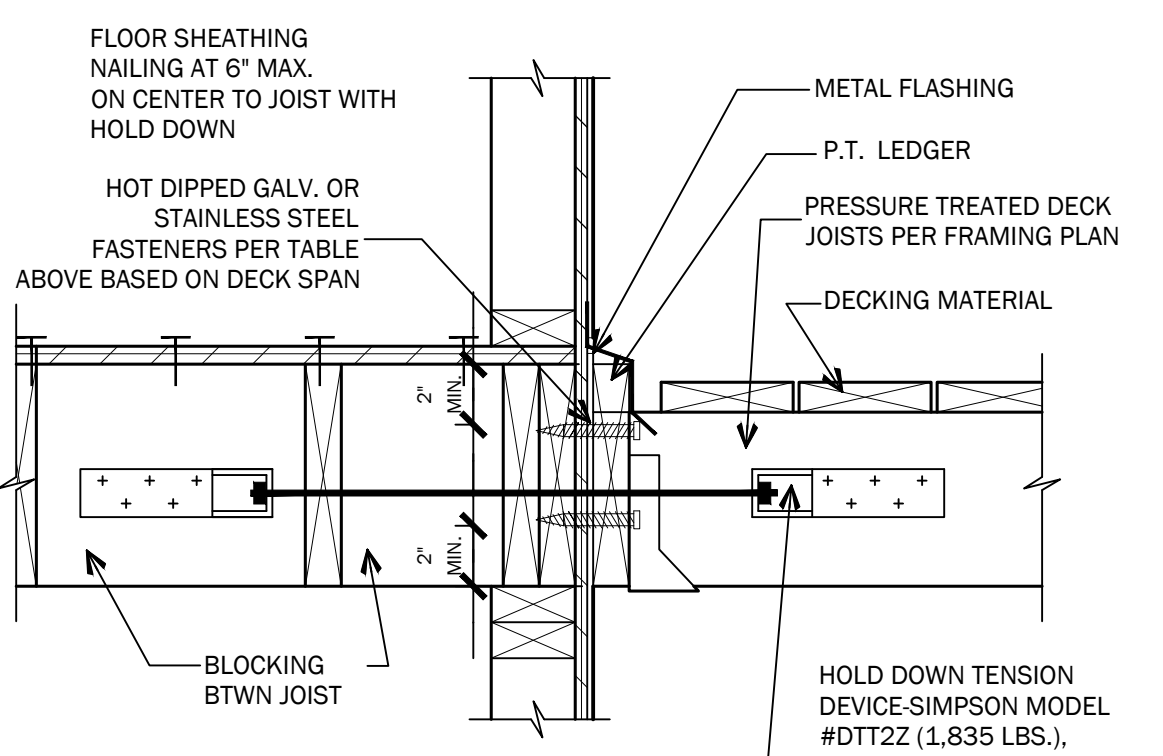
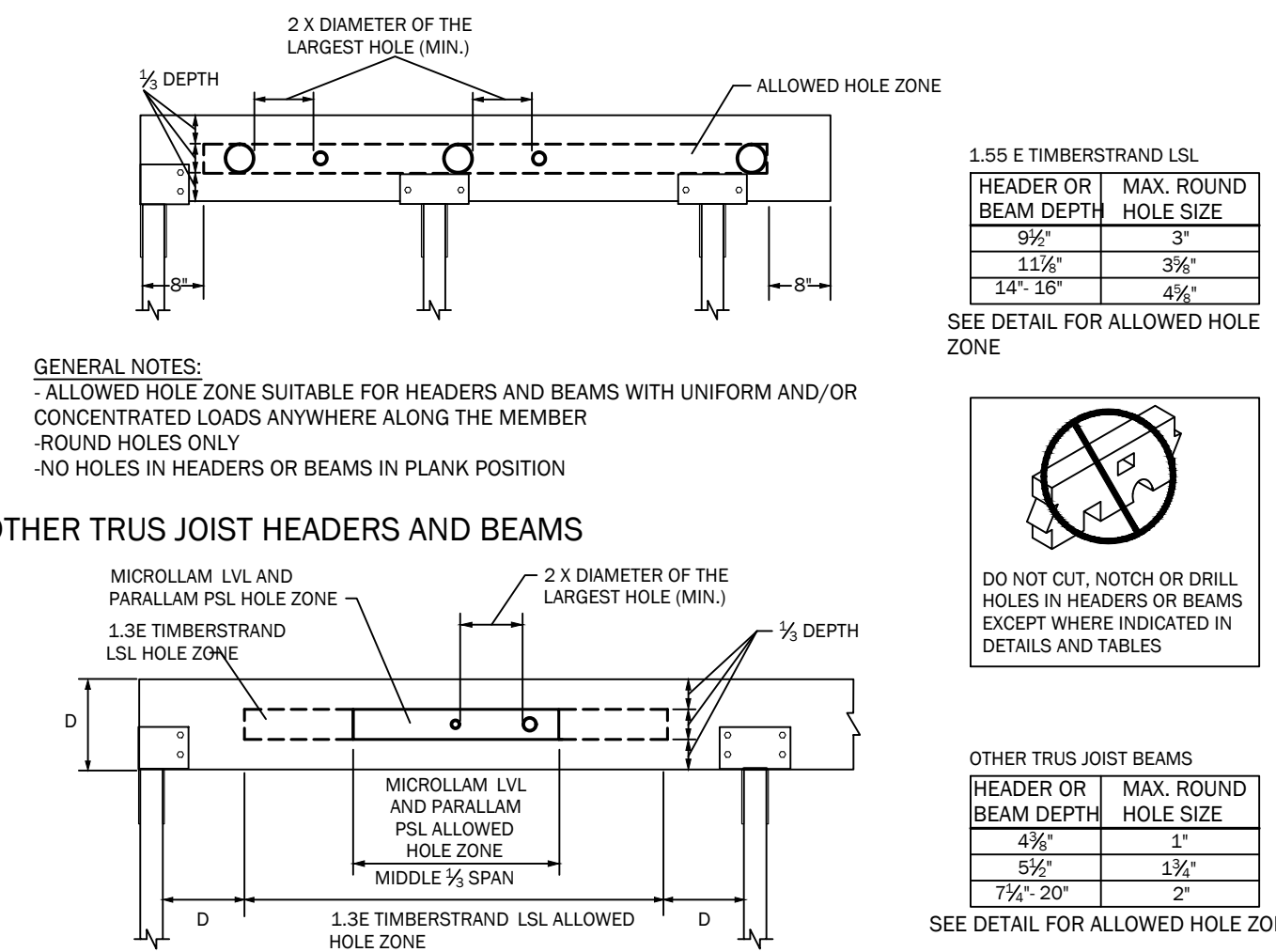
**FLITCH BEAM BOLTING DETAIL**

SCALE: 1"=1'-0"

**REQUIRED CLADDING FOR EXPOSED BEAMS & COLUMNS**



**ALLOWABLE HOLES-HEADERS AND BEAMS**  
1.55E TIMBERSTRAND LSL HEADERS AND BEAMS



**DECK HOLD DOWN DETAIL**

N.T.S.

NARROW WALL SHEATHING NOTE		STRUCTURAL NOTES	
<p>PER NEW JERSEY EDITION OF THE 2021 IRC - SECTION R602.12.6 - NARROW WALLS WHERE NOTED</p> <p>NARROW WALL SECTIONS UTILIZING WOOD STRUCTURAL PANELS SHALL BE CONNECTED USING TABLE R602.3(3). SEE TABLE THIS SHEET.</p> <p>WHERE NOTED NARROW WALL SECTIONS UTILIZING MIN. 1/2" STRUCTURAL FIBERBOARD SHEATHING SHALL BE CONNECTED W/ (2) ROWS 8d COMMON NAILS @ 3" o.c. @ PANEL EDGES &amp; 6" o.c. @ FIELD. FASTEN SHEATHING TO HEADERS W/ 8d COMMON NAILS IN 3" GRID PATTERN. PANEL SPLICES, IF NEEDED, TO OCCUR WITHIN 24" OF MID-HEIGHT. (TYP.)</p> <p>PROVIDE NARROW WALL SHEATHING/NAILING AT EXTERIOR WALLS LESS THAN 10'-0" H/W PANELS LESS THAN 3'-0" WIDE.</p>		<p>INDICATES LOAD BEARING WALL.</p> <p>ALL EXTERIOR WALLS SHALL BE 2x6 STUDS AT 16" O.C. MAX. UNLESS OTHERWISE NOTED.</p> <p>ALL INTERIOR WALLS SHALL BE 2x4 STUDS AT 16" O.C. MAX. UNLESS OTHERWISE NOTED.</p> <p>ALL FRAMING LUMBER TO BE HEM-FIR #2 Fb=850 PSI OR BETTER</p> <p>ALL PRESSURE TREATED LUMBER TO BE SOUTHERN YELLOW PINE #2 OR BETTER</p> <p>PROVIDE SOLID WOOD BLOCKING BELOW ALL POINT LOADS ABOVE.</p> <p>ALL DIMENSIONS ARE TO ROUGH FRAMING.</p> <p>ALL CONCRETE USED FOR SLABS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS</p> <p>ALL CONCRETE FOOTINGS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI @ 28 DAYS.</p> <p>ALL CONCRETE USED FOR WALLS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 PSI @ 28 DAYS.</p> <p>ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED.</p> <p>ALL LUMBER IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL.</p> <p>ALL EXTERIOR DECK LUMBER SHALL BE PRESSURE TREATED.</p> <p>WHERE 'AZEK' DECKING IS USED, JOIST SPACING SHOULD BE 12" O.C. MINIMUM.</p> <p>DECK FLASHING TAPE SHALL BE APPLIED TO THE TOP EDGE OF ANY 'PARALLAM PLUS PSL' OR 'ANTHONY POWER PRESERVED GLULAM', USED IN EXPOSED DECK APPLICATIONS</p> <p>INSTALLATION OF FRAMING SHALL COMPLY WITH ALL APPLICABLE CODES AND LOCAL ORDINANCES.</p> <p>WHERE DRAWINGS ARE IN CONFLICT WITH OTHER DRAWINGS, CONTRACTOR SHALL NOTIFY THE ARCHITECT.</p> <p>ALL PARALLAMS TO BE MANUFACTURED BY TRUSS JOIST OR EQUIVALENT SIZE LVL OR LAMINATED WOOD BEAM, MINIMUM Fb=2,900 PSI</p> <p>ALL LAMINATED WOOD BEAMS TO BE MINIMUM Fb=2,400 PSI</p> <p>PROVIDE GALVANIZED METAL JOIST/ BEAM HANGERS AT ALL JOISTS/ BEAM TO BEAM CONNECTIONS AS MANUFACTURED BY 'SIMPSON' OR APPROVED EQUAL.</p> <p>ALL STRUCTURAL MEMBERS TO BE FASTENED AS PER TABLE R602.3(1) OF THE 2021 EDITION OF THE IRC.</p> <p>PROVIDE BRIDGING AT ALL FLOOR JOISTS W/ SPAN GREATER THAN 8'-0" TYP. (WHERE ENGINEERED LUMBER IS PROVIDED, BLOCK ONLY AS REQUIRED PER MANUFACTURER SPECIFICATIONS.)</p> <p>PILE TO BE NOTCHED FOR BANDS NO MORE THAN 50% OF THE PILE DIAMETER.</p> <p>COPPER NAPHTHENATE TREATMENT SHALL BE FIELD APPLIED TO THE CUT END OF P.T. PILE, WHEN IN CONTACT WITH CONCRETE.</p> <p>COP-GUARD TREATMENT SHALL BE FIELD APPLIED TO THE CUT END OF 'ANTHONY' POWER PRESERVED GLULAM BEAMS.</p>	
<p><b>SHEATHING NOTE:</b></p> <p>ALL PLYWOOD ROOF AND WALL SHEATHING WITHIN 4 FT. OF GABLE END SHALL BE CONNECTED W/ 8d DEFORMED OR RING NAILS @ 6" O.C. PERIMETER AND INFIELD. ALL OTHER SHEATHING TO BE INSTALLED W/ 8d DEFORMED OR RING NAILS @ 6" O.C. @ PERIMETER AND 12" O.C. INFIELD.</p>		<p><b>ROOFING NOTES</b></p> <p>ROOFING FASTENING METHOD SHALL BE IN ACCORDANCE WITH ASTM 3161, CLASS F AND ASPHALT SHINGLES SHALL BEAR A LABEL INDICATING COMPLIANCE WITH ASTM 3061, CLASS F.</p> <p>ROOFS WITH A SLOPE OF 2:12 TO 4:12 SHALL BE PROVIDED WITH (2) LAYERS OF 15# FELT UNDERLAYMENT OR SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET COMPLYING WITH ASTM D 1970.</p>	

**TYPICAL DECK LEDGER DETAIL / FASTENER SCHEDULE**

TABLE R507.9.1.3(1) FASTNER SPACING FOR A SOUTHERN PINE OR HEM-FIR DECK LEDGER AND A 2" NOMINAL SOLID-SAWN SPRUCE-PINE-FIR BAND JOIST

JOIST SPAN	CONNECTION DETAILS						
	6'-0" AND LESS	6'-1" TO 8'-0"	8'-1" TO 10'-0"	10'-1" TO 12'-0"	12'-1" TO 14'-0"	14'-1" TO 16'-0"	16'-1" TO 18'-0"
1/2" DIAMETER LAG SCREW WITH 1/2" INCH MAXIMUM SHEATHING	30"	23"	18"	15"	13"	11"	10"
1/2" DIAMETER BOLT WITH 1/2" INCH MAXIMUM SHEATHING	36"	36"	34"	29"	24"	21"	19"
LEDGER LOK BY FASTEN MASTER w/ 15/32" OR 7/16" SHEATHING	14"	11"	8"	7"	6"	5"	4"
SDWS22400DB SCREW BY 'SIMPSON' w/ 15/32" OR 7/16" SHEATHING	15"	12"	9"	8"	7"	6"	5"

**DECK LEDGER / FASTENER NOTES**

1. THE TIP OF THE LAG SCREW SHALL FULLY EXTEND BEYOND THE INSIDE FACE OF THE BAND JOIST
2. LAG SCREWS OR BOLTS SHALL BE PLACED 2" IN FROM THE BOTTOM OR TOP OF THE DECK LEDGERS AND BETWEEN 2" AND 5" IN FROM THE ENDS. THE LAG SCREWS OR BOLTS SHALL BE STAGGERED FROM THE TOP TO THE BOTTOM ALONG THE HORIZONTAL RUN OR THE DECK LEDGER.
3. EXPOSED FASTENERS AND CONNECTORS, EXPOSED TO SALT WATER OR LOCATED WITHIN 300 FEET OF A SALT WATER SHORELINE, SHALL BE STAINLESS STEEL.

FASTENING SCHEDULE PER TABLE R602.3(1)

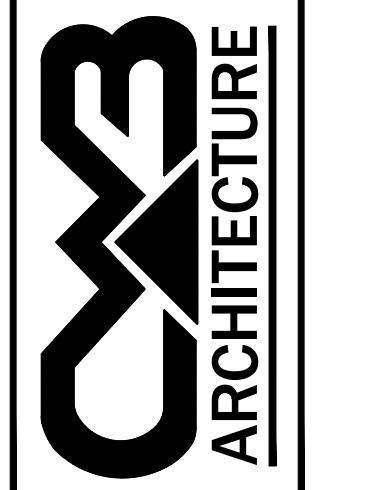
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING OF FASTENERS		MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS TABLE R602.7.5
			EDGES (inches)	INTERMEDIATE SUPPORTS (inches)	
31	3/8" - 1/2"	6d common or deformed (2" x 0.113" x 0.266" head) OR (2" x 0.113" x 0.266" head nail (subfloor, wall)	6	6	4'-0"
		8d common (2 1/2" x 0.131") nail OR RRS-01 (2 1/2" x 0.113") nail (roof)	6	6	6'-0"
		8d common (2 1/2" x 0.131") nail (subfloor, wall)	6	12	8'-0"
32	3/8" - 3/4"	8d common (2 1/2" x 0.131") nail (roof) OR RRS-01 OR (2 1/2" x 0.113") nail (roof)	6	6	10'-0"
		8d common (2 1/2" x 0.131") nail (roof) OR RRS-01 OR (2 1/2" x 0.113") nail (roof)	6	12	12'-0"
		Deformed 2 1/2" x 0.113" x 0.266" head (wall or subfloor)	6	12	14'-0"
33	7/8" - 1 1/4"	10d common (3" x 0.148") nail OR (2 1/2" x 0.131" x 0.281" head) deformed nail	6	12	16'-0"
		10d common (3" x 0.148") nail OR (2 1/2" x 0.131" x 0.281" head) deformed nail	6	12	18'-0"

TABLE R602.3(3) REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES

MINIMUM NAIL SIZE	MINIMUM WOOD STRUCTURAL PANEL SPAN RATING	MINIMUM NOMINAL PANEL THICKNESS (inches)	MINIMUM WALL STUD SPACING (inches)	PANEL NAIL SPACING		ULTIMATE DESIGN WIND SPEED (mph)		
				EDGES (inches o.c.)	FIELD (inches o.c.)	WIND EXPOSURE CATEGORY	B	C
6d common (2" x 0.113")	24/0	3/8"	16	6	12	140	115	110
							120	110
8d common (2 1/2" x 0.131")	24/16	7/8"	16	6	12	140	140	135
							120	110

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**ARMINIO RESIDENCE**  
LOT: 18 BLOCK: 15.26  
14 EAST SIGSBEE AVE. LONG BEACH TOWNSHIP - BRANT BEACH  
OCEAN COUNTY, NEW JERSEY  
STRUCTURAL FLOOR PLANS

No.	Date	REVISIONS	
		Description	

DATE  
11/22/2023

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23080

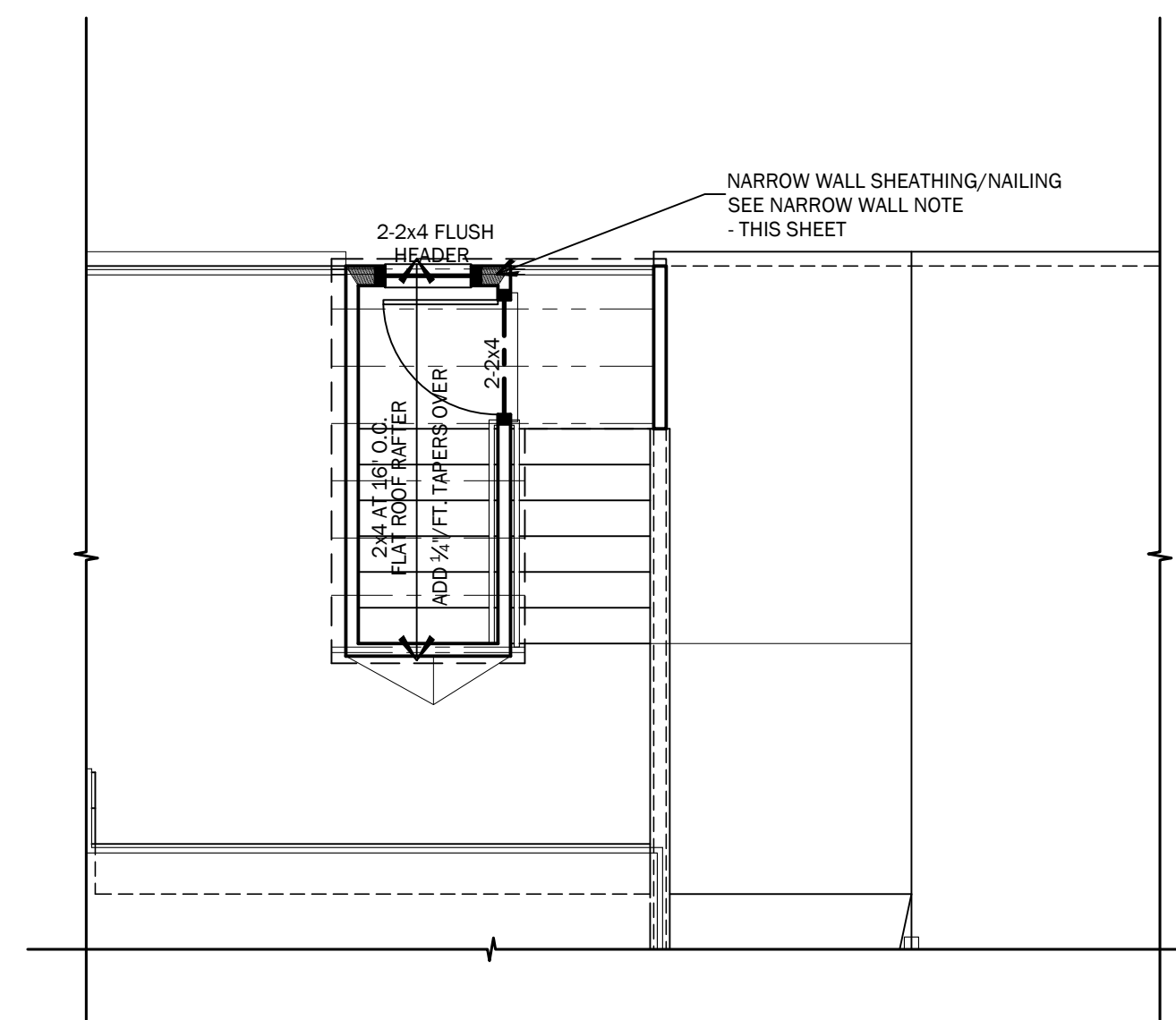
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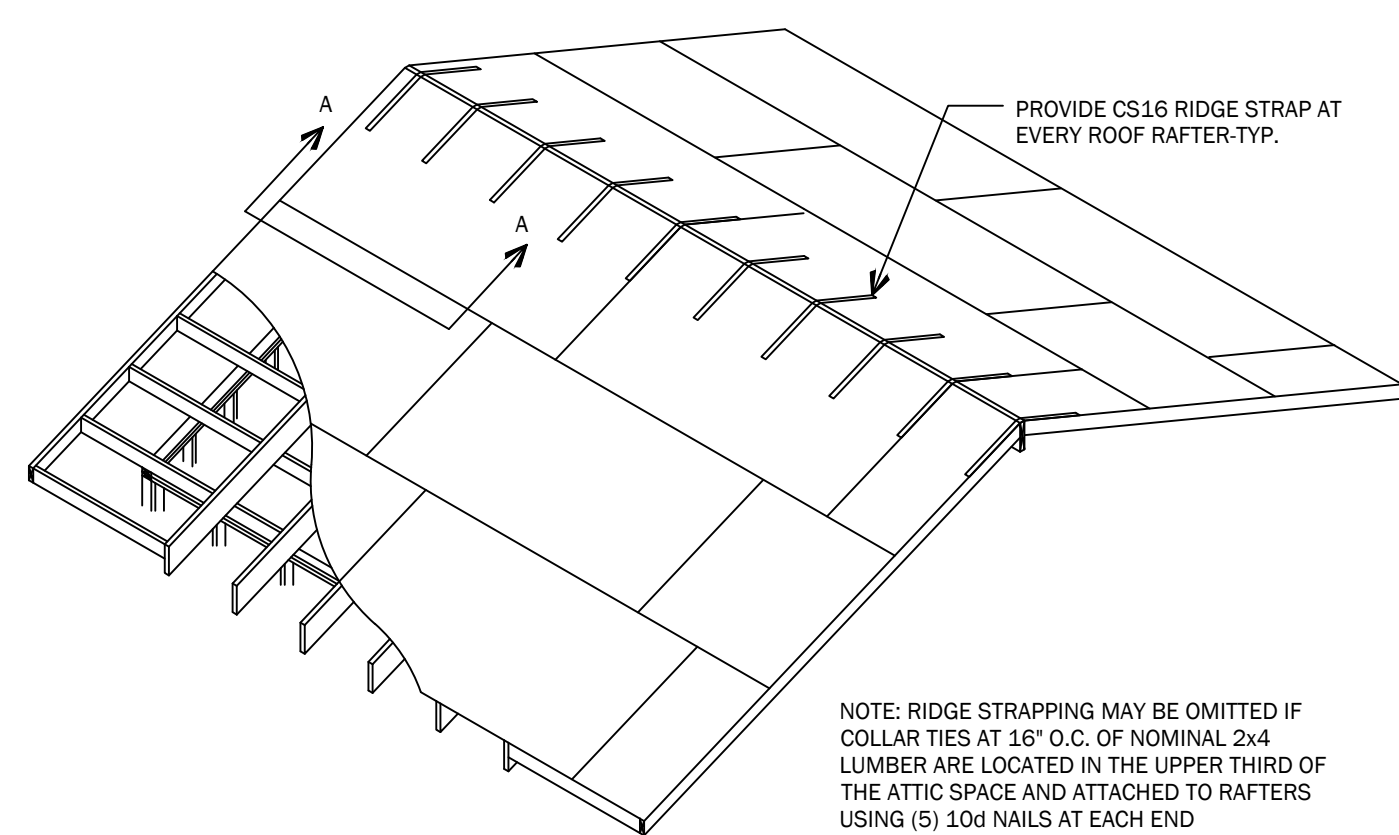
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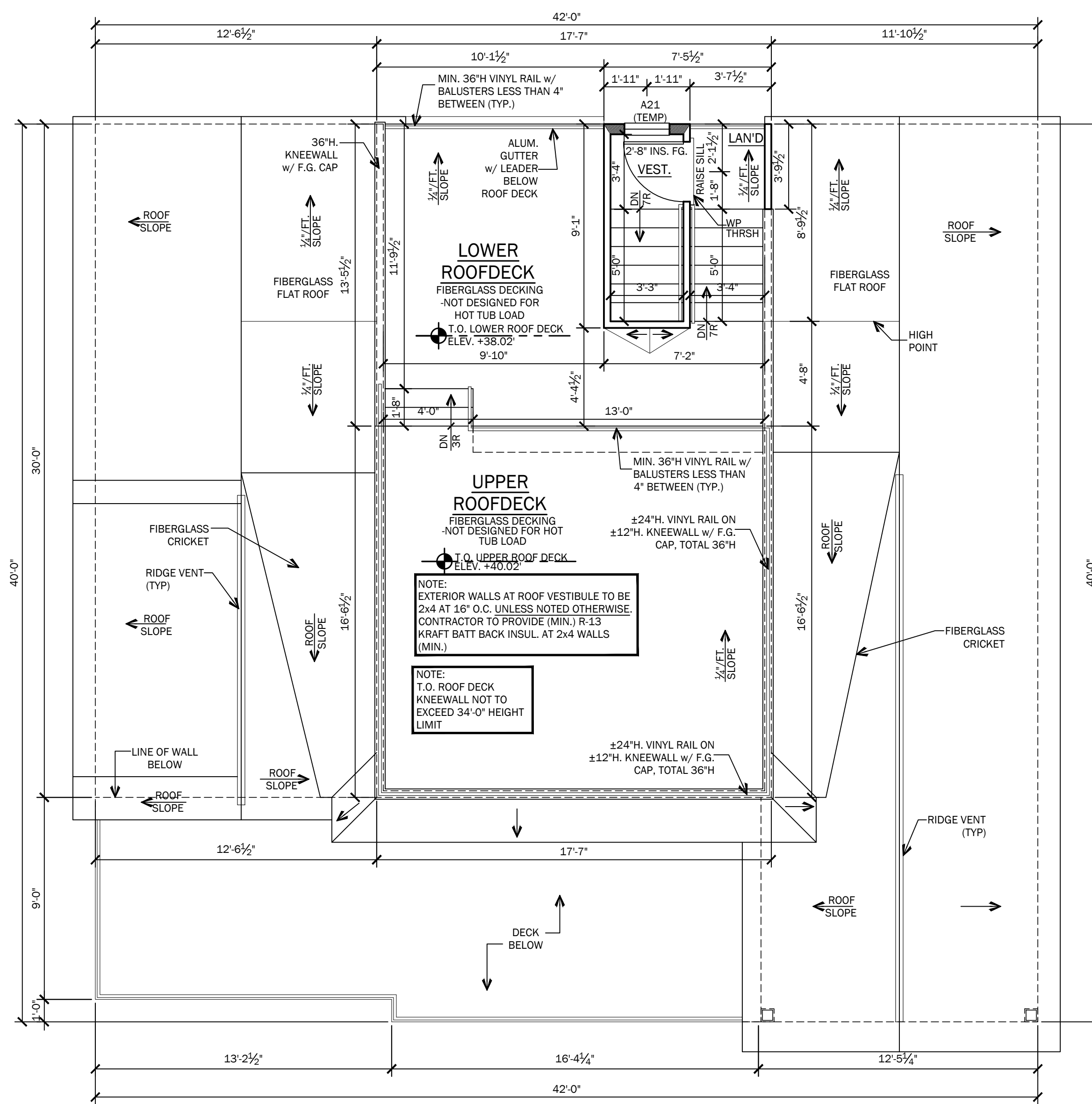




**UPPER ROOF FRAMING PLAN**  
1/4" = 1'-0"



**TYPICAL RIDGE STRAPPING DETAIL**  
N.T.S.



**ROOF DECK PLAN**  
1/4" = 1'-0"

**NARROW WALL SHEATHING NOTE**

PER NEW JERSEY EDITION OF THE 2021 IRC SECTION R602.12.6 - NARROW PANELS WHERE NOTED

NARROW WALL SECTIONS UTILIZING WOOD STRUCTURAL PANELS SHALL BE CONNECTED USING TABLE R602.3(3). SEE TABLE THIS SHEET.

WHERE NOTED NARROW WALL SECTIONS UTILIZING MIN. 1/2" STRUCTURAL FIBERBOARD SHEATHING SHALL BE CONNECTED w/ (2)-ROWS 8d COMMON NAILS @ 3" o.c. @ PANEL EDGES & 6" o.c. @ FIELD. FASTEN SHEATHING TO HEADERS w/ 8d COMMON NAILS IN 3" GRID PATTERN. PANEL SPLICES, IF NEEDED, TO OCCUR WITHIN 24" OF MID-HEIGHT. (TYP.)

PROVIDE NARROW WALL SHEATHING/NAILING AT EXTERIOR WALLS LESS THAN 10'-0" H W/ PANELS LESS THAN 3'-0" WIDE.

**SHEATHING NOTE:**

ALL PLYWOOD ROOF AND WALL SHEATHING WITHIN 4 FT. OF GABLE END SHALL BE CONNECTED W/ 8d DEFORMED OR RING NAILS @ 6" O.C. PERIMETER AND INFIELD. ALL OTHER SHEATHING TO BE INSTALLED W/ 8d DEFORMED OR RING NAILS @ 6" O.C. @ PERIMETER AND 12" O.C. INFIELD.

**ROOFING NOTES**

ROOFING FASTENING METHOD SHALL BE IN ACCORDANCE WITH ASTM 3161, CLASS F AND ASPHALT SHINGLES SHALL BEAR A LABEL INDICATING COMPLIANCE WITH ASTM 3061, CLASS F.

ROOFS WITH A SLOPE OF 2:12 TO 4:12 SHALL BE PROVIDED WITH (2)-LAYERS OF 15# FELT UNDERLAYMENT OR SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET COMPLYING WITH ASTM D 1970.

**STRUCTURAL NOTES**

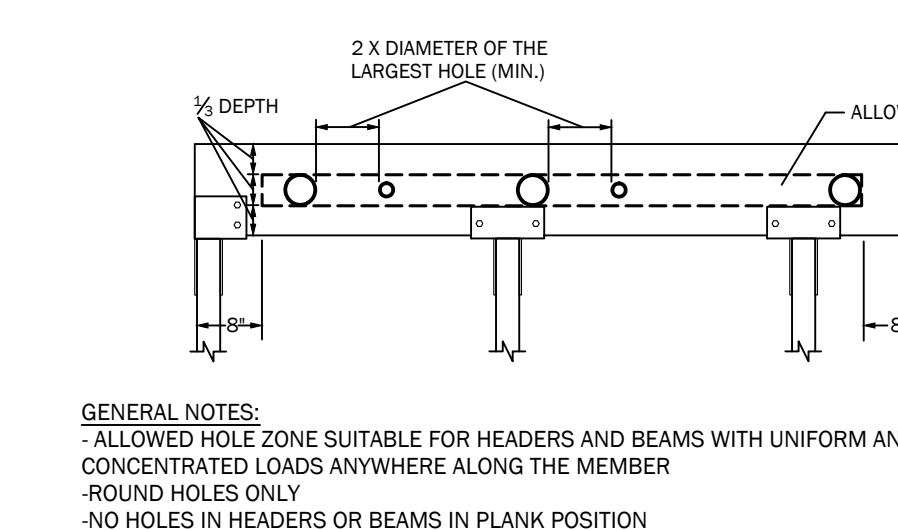
INDICATES LOAD BEARING WALL.

- ALL EXTERIOR WALLS SHALL BE 2x6 STUDS AT 16" O.C. MAX. UNLESS OTHERWISE NOTED.
- ALL INTERIOR WALLS SHALL BE 2x4 STUDS AT 16" O.C. MAX. UNLESS OTHERWISE NOTED.
- ALL FRAMING LUMBER TO BE HEM-FIR #2 Fb=850 PSI OR BETTER
- ALL PRESSURE TREATED LUMBER TO BE SOUTHERN YELLOW PINE #2 OR BETTER
- PROVIDE SOLID WOOD BLOCKING BELOW ALL POINT LOADS ABOVE.
- ALL DIMENSIONS ARE TO ROUGH FRAMING.
- ALL CONCRETE USED FOR SLABS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS.
- ALL CONCRETE FOOTINGS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 psi @ 28 DAYS.
- ALL CONCRETE USED FOR WALLS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,500 psi @ 28 DAYS.
- ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED.
- ALL STAPLES IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE STAINLESS STEEL.
- ALL EXTERIOR DECK LUMBER SHALL BE PRESSURE TREATED.
- WHERE 'AZEK' DECKING IS USED, JOIST SPACING SHOULD BE 12" O.C. MINIMUM.
- DECK FLASHING TAPE SHALL BE APPLIED TO THE TOP EDGE OF ANY 'PARALLAM PLUS PSL' OR 'ANTHONY POWER PRESERVED GLULAM', USED IN EXPOSED DECK APPLICATIONS.
- INSTALLATION OF FRAMING SHALL COMPLY WITH ALL APPLICABLE CODES AND LOCAL ORDINANCES.
- WHERE DRAWINGS ARE IN CONFLICT WITH OTHER DRAWINGS, CONTRACTOR SHALL NOTIFY THE ARCHITECT.
- ALL PARALLAMS TO BE MANUFACTURED BY TRUSS JOIST OR EQUIVALENT SIZE LVL OR LAMINATED WOOD BEAM, MINIMUM Fb=2,900 PSI
- ALL LAMINATED WOOD BEAMS TO BE MINIMUM Fb=2,400 PSI
- PROVIDE GALVANIZED METAL JOIST/ BEAM HANGERS AT ALL JOISTS/ BEAM TO BEAM CONNECTIONS AS MANUFACTURED BY 'SIMPSON' OR APPROVED EQUAL
- ALL STRUCTURAL MEMBERS TO BE FASTENED AS PER TABLE R602.3(1) OF THE 2021 EDITION OF THE IRC.
- PROVIDE BRIDGING AT ALL FLOOR JOISTS w/ SPAN GREATER THAN 8'-0" TYP. (WHERE ENGINEERED LUMBER IS PROVIDED, BLOCK ONLY AS REQUIRED PER MANUFACTURER'S SPECIFICATIONS.
- PILE TO BE NOTCHED FOR BANDS NO MORE THAN 50% OF THE PILE DIAMETER.
- COPPER NAPHTHENATE TREATMENT SHALL BE FIELD APPLIED TO THE CUT END OF P.T. PILE, WHEN IN CONTACT WITH CONCRETE.
- 'COP GUARD' TREATMENT SHALL BE FIELD APPLIED TO THE CUT END OF 'ANTHONY' POWER PRESERVED GLULAM BEAMS.

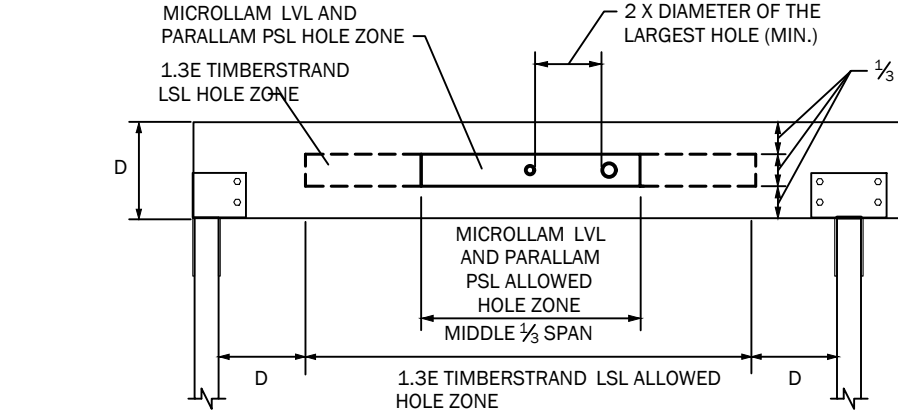
**RAFTER/CEILING JOIST HEEL JOINT CONNECTIONS**  
PER TABLE R802.5.2(1)

RAFTER SLOPE	RAFTER SPACING (INCHES)	GROUND SNOW LOAD (PSF)		
		20	30	50
3:12	12	3	5	8
	16	4	7	10
	19.2	4	8	12
	24	5	10	15
	12	3	4	6
	16	3	5	8
4:12	19.2	3	6	9
	24	4	8	11
	12	3	3	5
	16	3	4	6
	19.2	3	5	7
	24	3	6	9
5:12	12	3	3	4
	16	3	3	5
	19.2	3	4	5
	24	3	5	7
	12	3	3	4
	16	3	3	4
7:12	19.2	3	4	5
	24	3	5	7
	12	3	3	3
	16	3	3	4
	19.2	3	3	4
	24	3	4	5
9:12	12	3	3	3
	16	3	3	3
	19.2	3	3	3
	24	3	3	3
	12	3	3	3
	16	3	3	3
12:12	19.2	3	3	3
	24	3	3	4

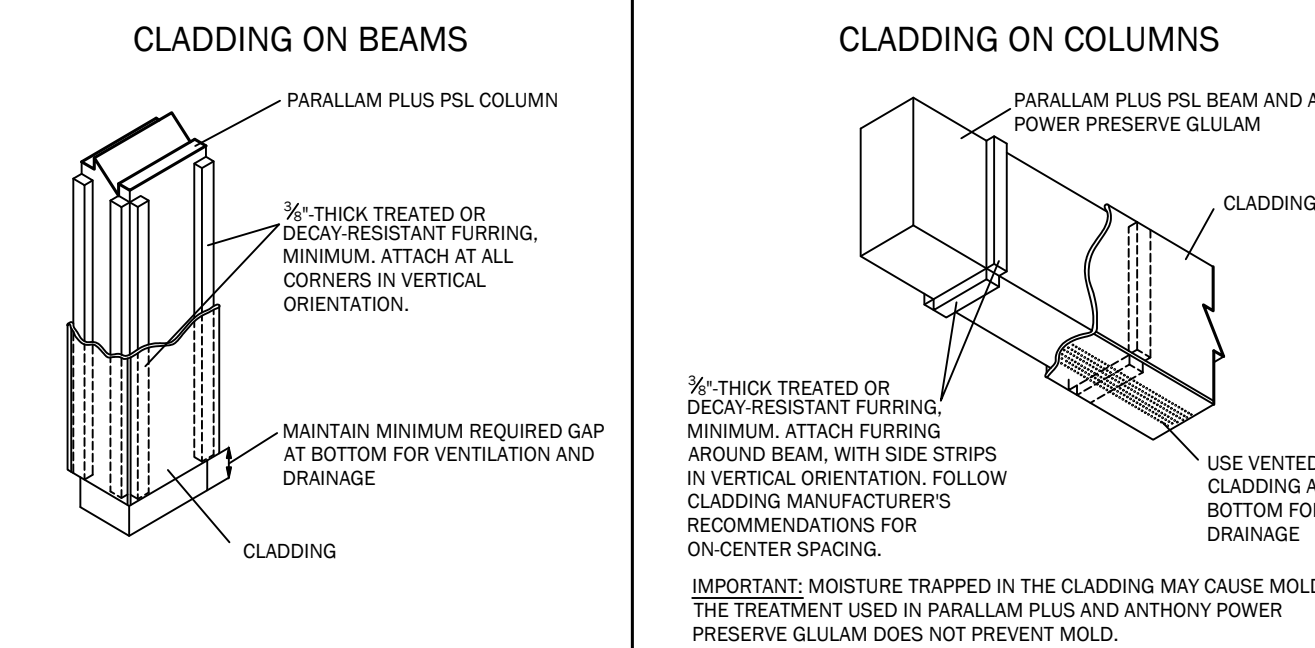
**ALLOWABLE HOLES-HEADERS AND BEAMS**  
1.55E TIMBERSTRAND LSL HEADERS AND BEAMS



**OTHER TRUS JOIST HEADERS AND BEAMS**



**REQUIRED CLADDING FOR EXPOSED BEAMS & COLUMNS**



METAL CLADDING MATERIALS SHOULD NOT BE USED AS THE PRESERVATIVE TREATMENT CAN REACT WITH THE METAL AND LEAD TO CORROSION OF THE CLADDING AND FASTENERS.

ALL FASTENERS, FURRING STRIPS, AND OTHER MATERIALS USED IN THE CLADDING ASSEMBLY MUST BE CORROSION-RESISTANT, TREATED, OR OTHERWISE RESISTANT TO DECAY.

VENTED CLADDING, SUCH AS SOFFIT OR DRILLED CLADDING MATERIAL, SHOULD BE USED TO ALLOW PROPER DRAINAGE. ROUTINE MAINTENANCE IS ALSO REQUIRED TO ENSURE THAT VENT HOLES REMAIN OPEN AND FREE OF DEBRIS.

FOR COLUMN BASES WITH GROUND CONTACT MAINTAIN A 3" (MINIMUM) GAP BETWEEN CLADDING AND FINISH GRADE FOR DRAINAGE. FOR BASES WITH PATIO OR DECK SURFACE CONTACT, MAINTAIN A 1" (MINIMUM) GAP BETWEEN CLADDING AND SURFACE.

CLADDING DETAILS SHOWN ARE INTENDED FOR USE WITH PARALLAM PLUS PSL AND ANTHONY POWER PRESERVED GLULAMS ONLY AND SHOULD NOT BE USED WITH UNTREATED PRODUCTS.

DO NOT WRAP EXTERIOR PARALLAM PLUS PSL PRODUCTS OR ANTHONY POWER PRESERVED GLULAMS WITH MATERIALS THAT MAY TRAP MOISTURE, SUCH AS WOOD, METAL, OR PLASTIC TRIM THAT DOES NOT ALLOW FOR PROPER VENTILATION AND DRAINAGE.

**FASTENING SCHEDULE PER TABLE R602.3(1)**  
WOOD STRUCTURAL PANELS, SUBFLOOR, ROOF, AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING (SEE TABLE R602.3(3) FOR WOOD STRUCTURAL PANEL EXTERIOR WALL SHEATHING TO WALL FRAMING) NOTE: PROVIDE BLOCKING AT ALL WALL PANEL EDGES AS REQUIRED.

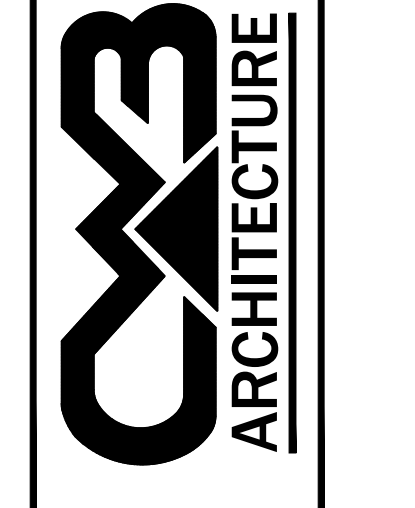
ITEM	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING OF FASTENERS		MINIMUM NUMBER OF FULL HEIGHT STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS TABLE R602.7.5	
			EDGES (inches)	INTERMEDIATE SUPPORTS (inches)	HEADER SPAN	MAXIMUM STUD SPACING
31	3/8" - 1/2"	6d common or deformed (2" x 0.113" x 0.266" head) OR 2" x 0.113" x 0.266" head nail (subfloor, wall)	6	6	4'-0"	24"
		8d common (2 1/2" x 0.131" nail) OR RRSR-01 (2 1/2" x 0.113" nail) (roof)	6	6	8'-0"	2
		8d common (2 1/2" x 0.131" nail) (subfloor, wall)	6	12	10'-0"	3
32	1 3/8" - 1 1/2"	8d common (2 1/2" x 0.131" nail) (subfloor, wall)	6	12	12'-0"	3
		8d common (2 1/2" x 0.131" nail) (roof) OR RRSR-01 OR (2 1/2" x 0.113" nail) (roof)	6	6	14'-0"	3
		Deformed 2 1/2" x 0.113" x 0.266" head (wall or subfloor)	6	12	16'-0"	4
33	3/4" - 1 1/4"	10d common (3" x 0.148" nail) OR (2 1/2" x 0.131" x 0.281" head) deformed nail	6	12	18'-0"	2

**TABLE R602.3(3) REQUIREMENTS FOR WOOD STRUCTURAL PANEL WALL SHEATHING USED TO RESIST WIND PRESSURES**

MINIMUM NAIL SIZE	MINIMUM PENETRATION (inches)	MINIMUM WOOD STRUCTURAL PANEL RATING	MINIMUM NOMINAL PANEL THICKNESS (inches)	MAXIMUM WALL STUD SPACING (inches)	PANEL NAIL SPACING			ULTIMATE DESIGN WIND SPEED, (mph) WIND EXPOSURE CATEGORY		
					EDGES (inches o.c.)	FIELD (inches o.c.)		B	C	D
6d common (2" x 0.113")	1.5	24/0	3/8	16	6	12	140	115	110	
					6	12	170	140	135	
8d common (2 1/2" x 0.131")	1.75	24/16	1/2	24	6	12	140	115	110	
					6	12	170	140	135	

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**ARMINIO RESIDENCE**  
LOT: 18 BLOCK: 15.26  
14 EAST SIGSBEE AVE. LONG BEACH TOWNSHIP - BRANT BEACH  
OCEAN COUNTY, NEW JERSEY

**REVISIONS**

No.	Date	Description

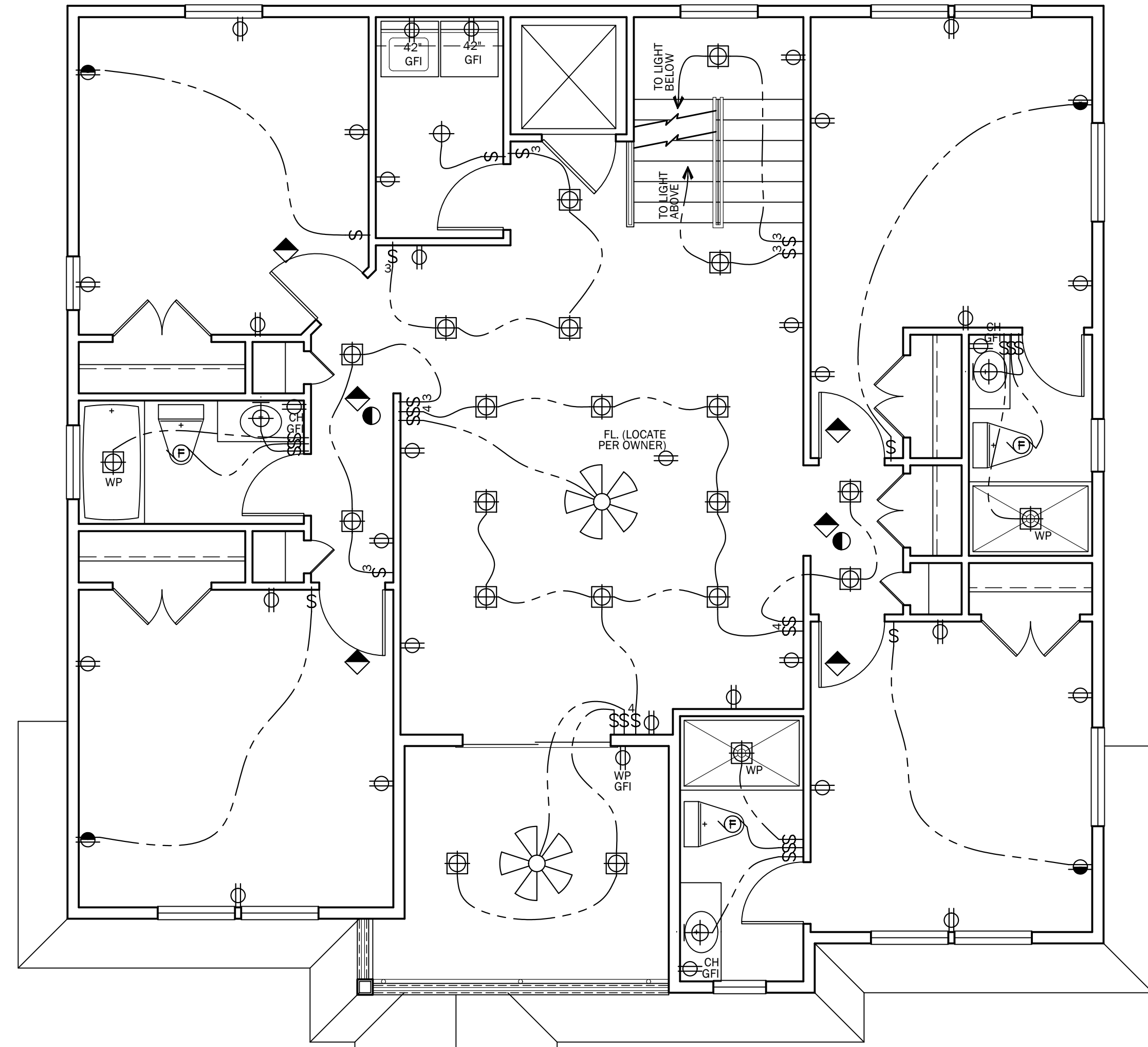
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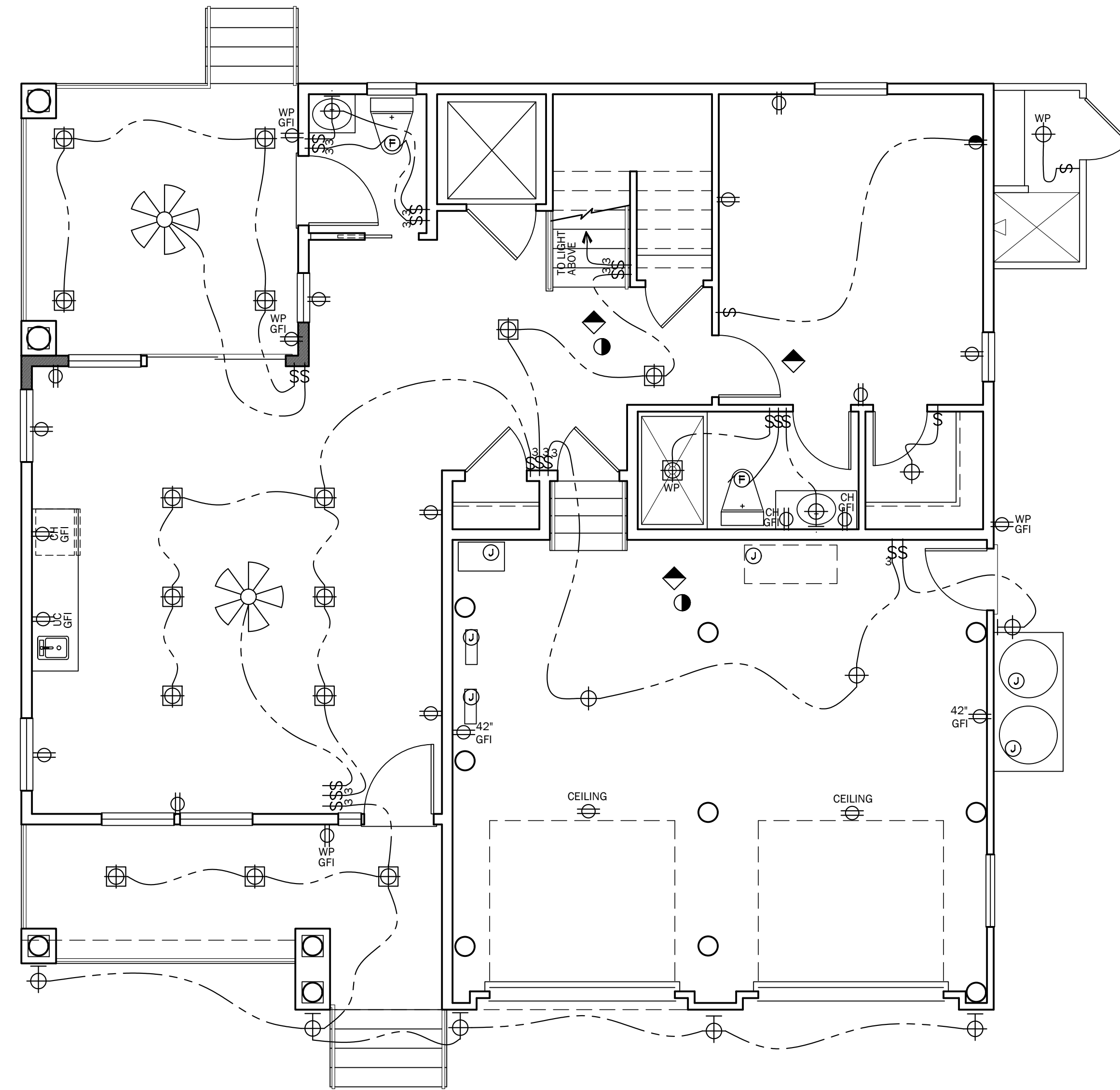
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**FIRST FLOOR ELECTRICAL PLAN**

1/4" = 1'-0"



**GROUND FLOOR ELECTRICAL PLAN**

1/4" = 1'-0"

**ELECTRICAL NOTES**

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE w/ AMENDMENTS PER NJUCC, AND / OR LOCAL CODES.
2. PROVIDE CONVENIENCE OUTLETS AS REQUIRED BY CODE.
3. BRANCH CIRCUIT WIRING IN DAMP, WET, OR EXPOSED AREAS SHALL BE INSTALLED IN CONDUIT.
4. PROVIDE ALL FIXTURES WITH LAMPS.
5. ALL SMOKE & CARBON MONOXIDE DETECTORS SHALL BE WIRED TOGETHER TO PROVIDE A SIMULTANEOUS ALARM.
6. SMOKE AND CARBON MONOXIDE DETECTORS SHALL BE 110 VOLTS WITH A BATTERY BACK-UP.
7. PER NEC ARTICLE 406.12, ALL 125 VOLT RATED, 15 AND 20 AMP RECEPTACLE OUTLETS WILL BE REQUIRED TO BE TAMPER RESISTANT.
8. PER NEC ARTICLE 210.12, THE AFCI PROTECTION SHALL BE REQUIRED IN 120 VOLT, SINGLE PHASE, 15 AND 20 AMP BRANCH CIRCUITS THROUGHOUT, EXCLUDING BATHROOMS, KITCHENS, GARAGES, UNFINISHED BASEMENTS, OR EXTERIOR LOCATIONS.
9. AN EXTERIOR RECEPTACLE OUTLET WILL BE REQUIRED WITHIN THE PERIMETER OF BALCONIES, DECKS, AND PORCHES THAT ARE ACCESSIBLE FROM INSIDE THE DWELLING. THE RECEPTACLE MUST BE PLACED WITHIN 6'-6" ABOVE THE SURFACE BELOW, TAMPER RESISTANT, AND GFCI PROTECTED.
10. ALL PERMANENTLY INSTALLED FIXTURES, EXCLUDING KITCHEN APPLIANCE FIXTURES, SHALL BE LOW-EFFICACY
11. PERMANENTLY INSTALLED FIXTURES SHALL HAVE A DIMMER, OCCUPANT SENSOR, OR ANOTHER CONTROL BUILT INTO THE FIXTURE  
-EXCEPTIONS: BATHROOMS, HALLWAYS, EXTERIOR LIGHTING, OR SECURITY LIGHTING.
12. WHERE THE POWER FOR EXTERIOR LIGHTING EXCEEDS 30 WATTS, DAYLIGHT SENSORS ARE REQUIRED FOR EXTERIOR LIGHTING
13. ALL UTILITIES INCLUDING ELECTRIC METER, ELECTRICAL PANEL, PUMPS, AND PLUMBING, TO BE INSTALLED ABOVE DESIGN FLOOD ELEVATION, AND CANNOT BE ATTACHED TO A BREAK-AWAY WALL IN A 'V ZONE' OR 'COASTAL A ZONE'.
14. ELECTRICAL WIRING, RECEPTACLES, SWITCHES, AND LIGHTS BELOW DESIGN FLOOD ELEVATION (DFE) SHALL BE GROUPED TOGETHER ON ISOLATED CIRCUITS WITH GFCI BREAKERS.
15. ELECTRICAL WIRING BELOW DFE SHALL BE PROTECTED USING ELECTRICAL METALLIC TUBING (EMT) PER NEC ARTICLE 358.
16. ELECTRICAL RECEPTACLES LOCATED BELOW DFE SHALL BE IN A WEATHER PROOF ENCLOSURE, SUITABLE FOR A WET LOCATION, PER NEC ARTICLE 406B.

**HVAC NOTES**

1. THE ENTIRE SYSTEM SHALL BE DESIGNED BY A LICENSED TECHNICIAN AND INSTALLED BY HVAC CONTRACTOR WITH WARRANTIES.
2. HEATING SYSTEM SHALL BE GAS-FIRED FORCED HOT AIR, TWO ZONE WITH SPLIT DAMPER, WITH A/C SHARING DISTRIBUTION DUCTWORK. 2ND UNIT TO BE LOCATED IN ATTIC.
3. DUCTWORK SHALL BE DESIGNED TO SUPPLY CONDITIONED AIR UNIFORMLY TO ALL SPACES.
4. UNITS SELECTED SHALL BE 90% EFFICIENT OR BETTER.
5. ALL DUCTWORK INSTALLED IN AN UNCONDITIONED SPACE SHALL HAVE R-8 INSULATION ON ALL SUPPLY DUCTS AND R-6 ON ALL RETURN DUCTS
6. BLOWER SEAL TEST WILL NEED TO BE COMPLETED PRIOR TO FINAL INSPECTION

**ELECTRICAL SYMBOLS**

	SINGLE POLE SWITCH		TELEPHONE OUTLET
	THREE (3) POLE SWITCH		CABLE TELEVISION OUTLET
	FOUR (4) POLE SWITCH		THERMOSTAT
	DIMMER SWITCH		DOOR BELL BUTTON
	3 SPEED FAN SWITCH		DOOR BELL CHIMES
	DUPLEX OUTLET		SMOKE DETECTOR
	QUAD OUTLET		CARBON MONOXIDE DETECTOR
	DUPLEX OUTLET GFI		SPRINKLER ALARM BELL
	GROUND FAULT INTERRUPTED		ELECTRIC PANEL
	DUPLEX OUTLET SPLIT WIRED TO SWITCH		ELECTRIC METER
	WATER PROOF GROUND FAULT		FLUORESCENT LIGHT FIXTURE
	DUPLEX OUTLET w/SWITCH		FLUORESCENT STRIP FIXTURE
	220 SERVICE OUTLET		UNDER CABINET FIXTURE
	JUNCTION BOX		CEILING FAN
	CEILING LIGHT FIXTURE		
	RECESSED CEILING LIGHT FIXTURE		
	WALL LIGHT FIXTURE		
	GARBAGE DISPOSAL		
	CEILING EXHAUST FAN		
	WALL EXHAUST FAN		
	EXHAUST FAN w/LIGHT		
	EXTERIOR FLOOD LIGHT		

**NOTE:**  
 - CH INDICATES COUNTER HEIGHT  
 - DIMENSIONS ADJACENT TO SYMBOL INDICATE HEIGHT ABOVE FINISH FLOOR.  
**SMOKE DETECTOR NOTE:**  
 - ALL SMOKE AND CARBON MONOXIDE DETECTORS TO BE WIRED TOGETHER TO PROVIDE A SIMULTANEOUS ALARM.  
 - SMOKE AND CARBON MONOXIDE DETECTORS SHALL BE 110 VOLT, WITH A BATTERY BACK-UP.

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**ARMINIO RESIDENCE**  
 LOT: 18 BLOCK: 15.26  
 14 EAST SIGSBEE AVE. LONG BEACH TOWNSHIP - BRANT BEACH  
 OCEAN COUNTY, NEW JERSEY  
 ELECTRICAL PLANS

REVISIONS	
No.	Date

**DATE**  
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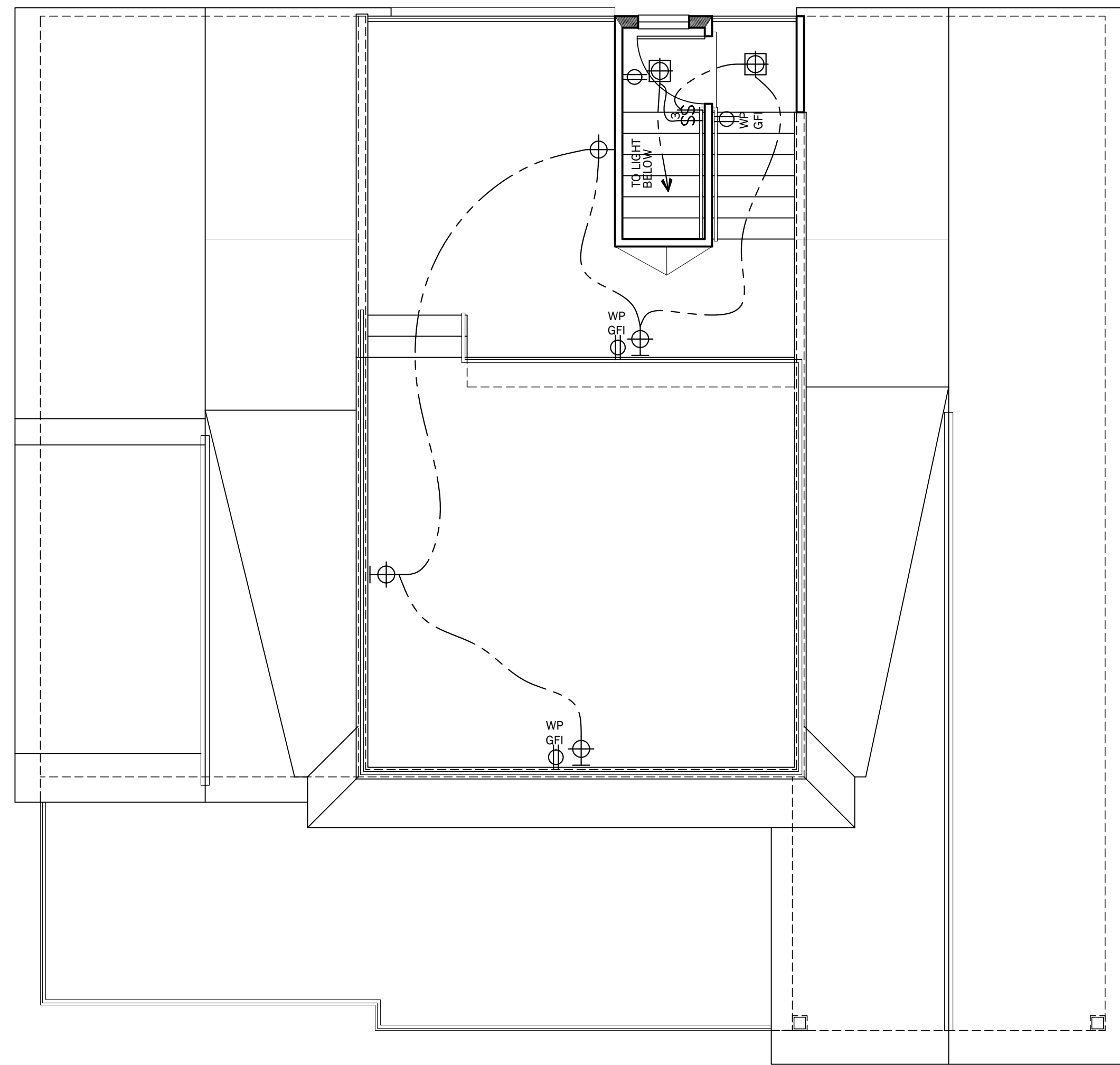
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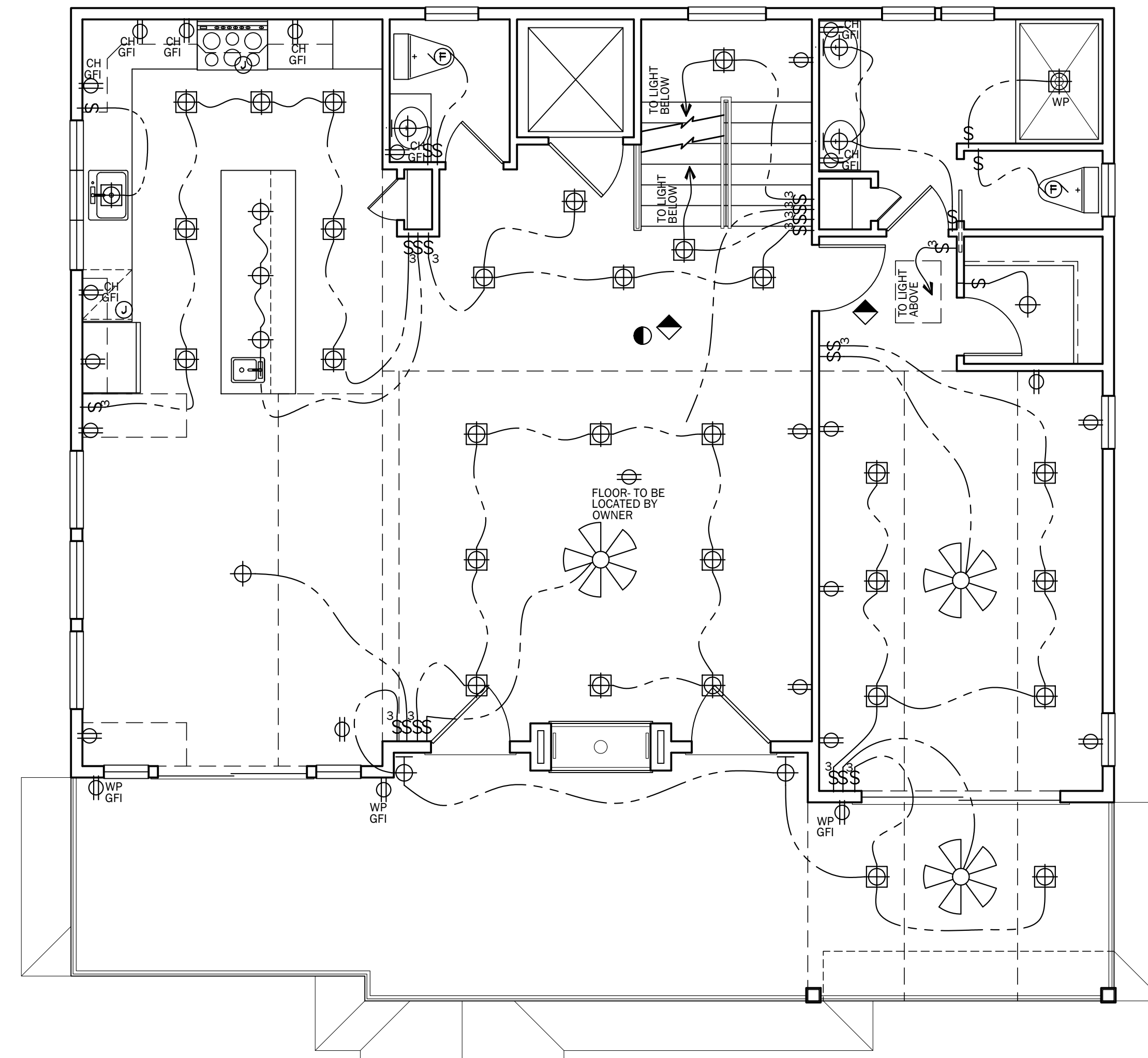
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**ROOF DECK ELECTRICAL PLAN**

1/4" = 1'-0"



**SECOND FLOOR ELECTRICAL PLAN**

1/4" = 1'-0"

**ELECTRICAL NOTES**

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	DUPLEX OUTLET		SMOKE DETECTOR
	QUAD OUTLET		CARBON MONOXIDE DETECTOR
	DUPLEX OUTLET GROUND FAULT INTERRUPTED		SPRINKLER ALARM BELL
	DUPLEX OUTLET SPLIT WIRED TO SWITCH		ELECTRIC PANEL
	DUPLEX OUTLET WATER PROOF GROUND FAULT		ELECTRIC METER
	DUPLEX OUTLET w/SWITCH		FLUORESCENT LIGHT FIXTURE
	220 SERVICE OUTLET		FLUORESCENT STRIP FIXTURE
	JUNCTION BOX		UNDER CABINET FIXTURE
	CEILING LIGHT FIXTURE		CEILING FAN
	RECESSED CEILING LIGHT FIXTURE		
	WALL LIGHT FIXTURE		
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	CEILING EXHAUST FAN		
	WALL EXHAUST FAN		
	EXHAUST FAN w/LIGHT		
	EXTERIOR FLOOD LIGHT		

**NOTE:**

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**REVISIONS**

No.	Date	Description

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**COMM. No.**  
23080

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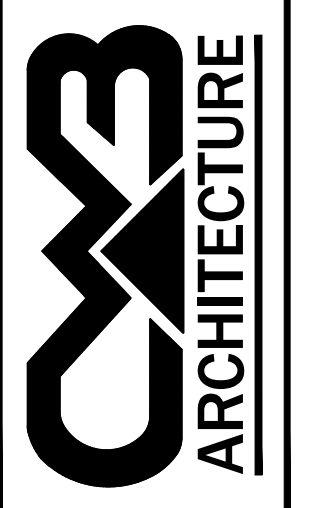
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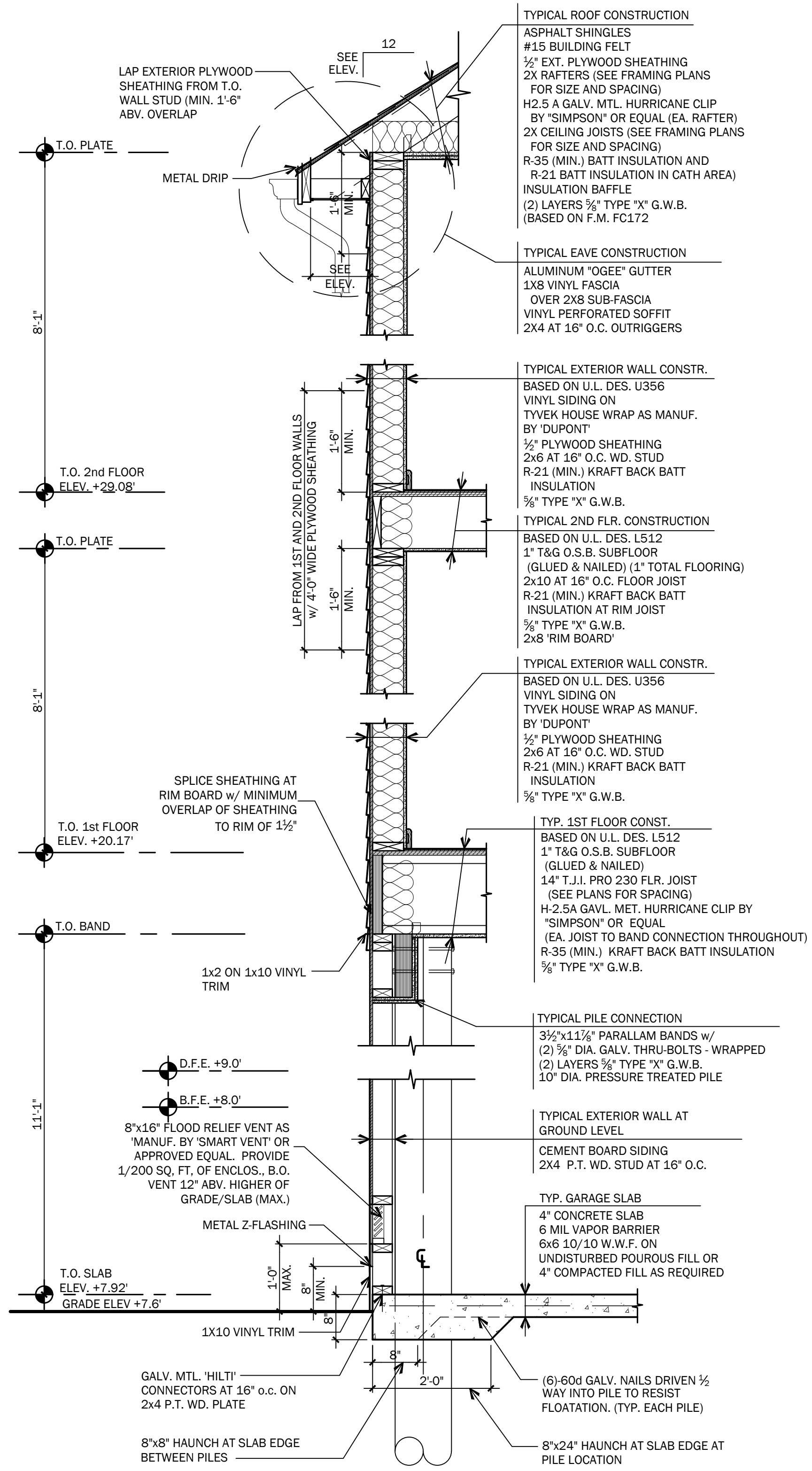
**ARMINIO RESIDENCE**  
LOT: 18 BLOCK: 15.26  
14 EAST SIGSBEE AVE. LONG BEACH TOWNSHIP - BRANT BEACH  
OCEAN COUNTY, NEW JERSEY

ELECTRICAL PLANS

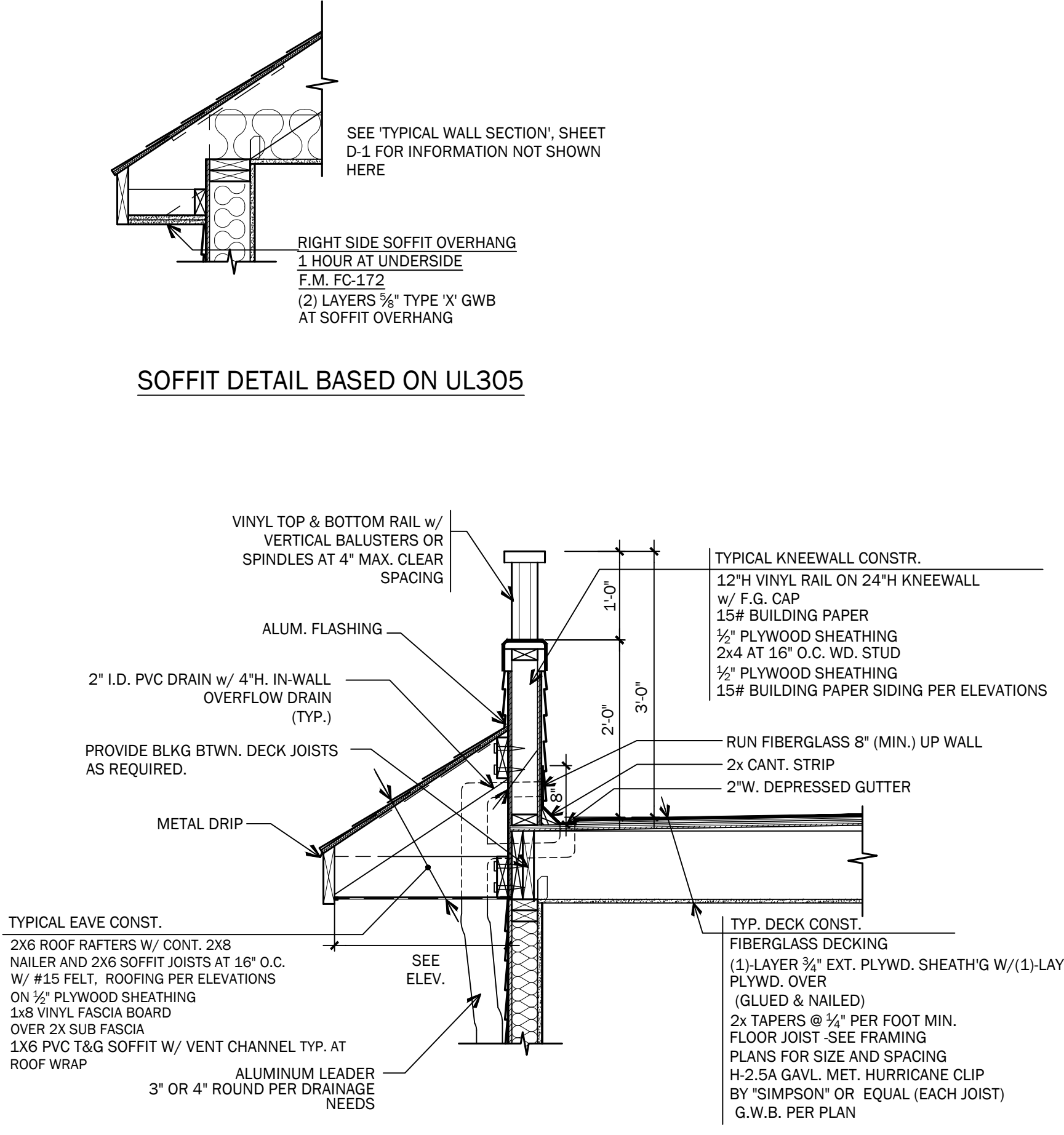


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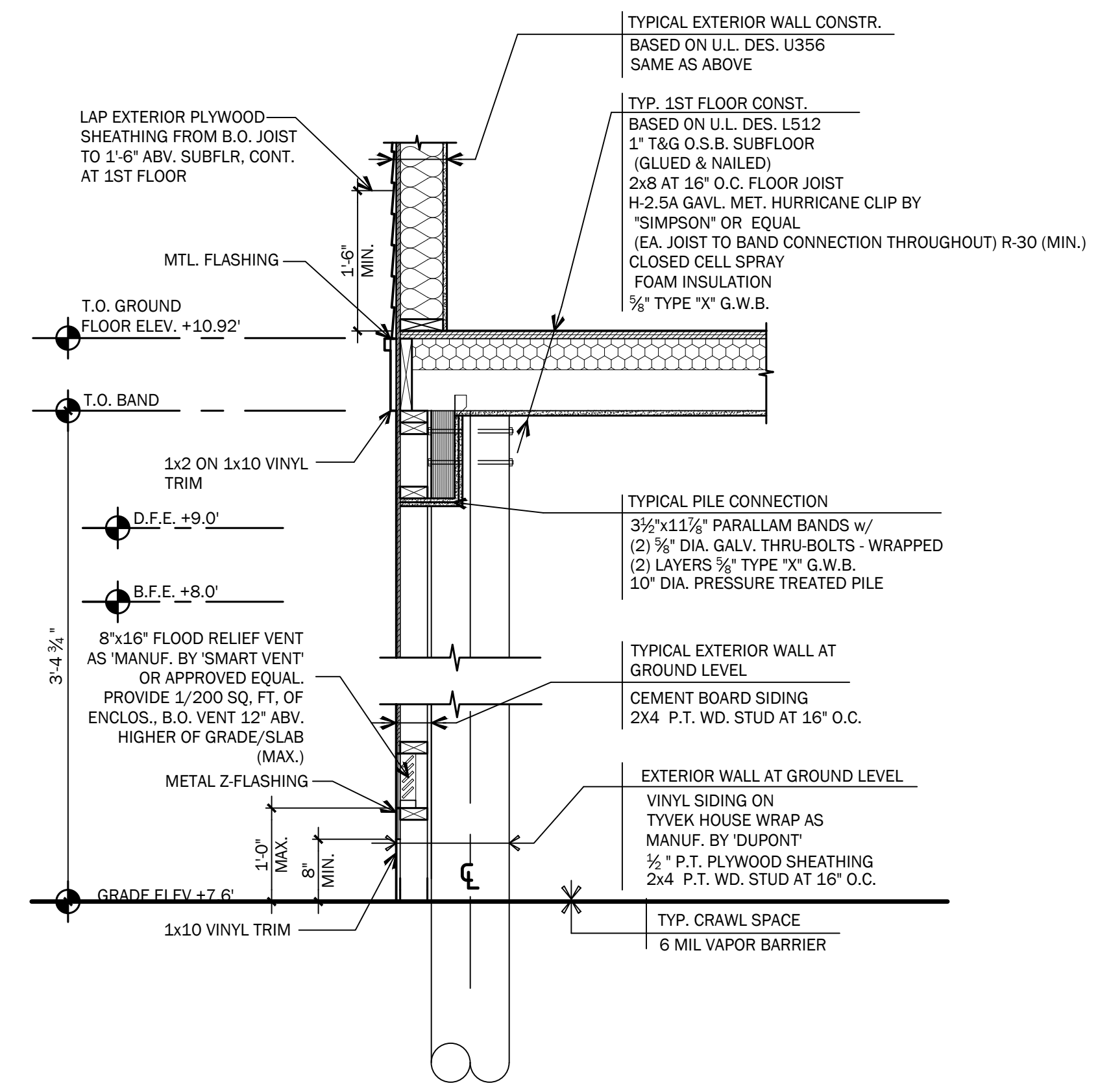
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#NJ. 0121771  
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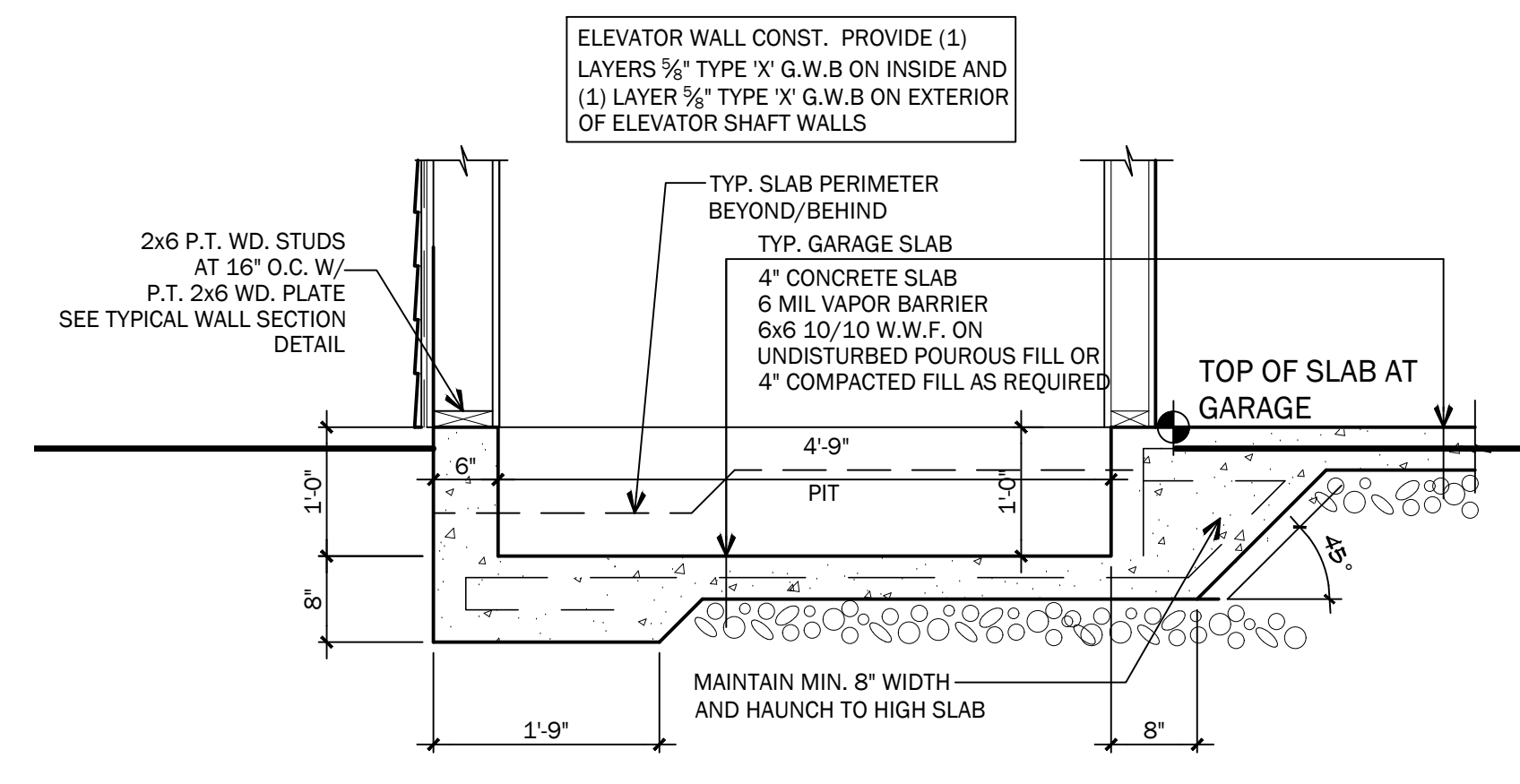
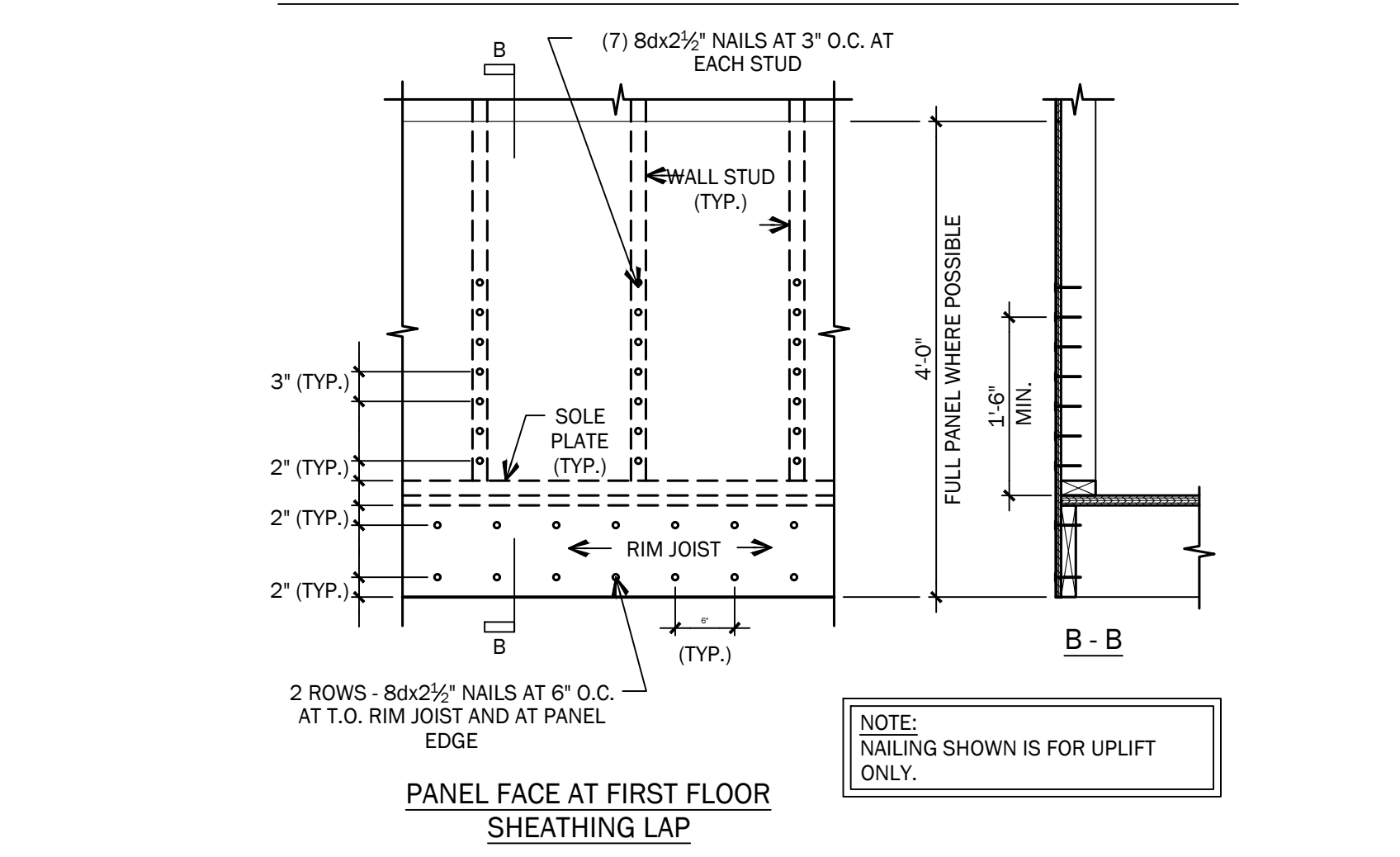
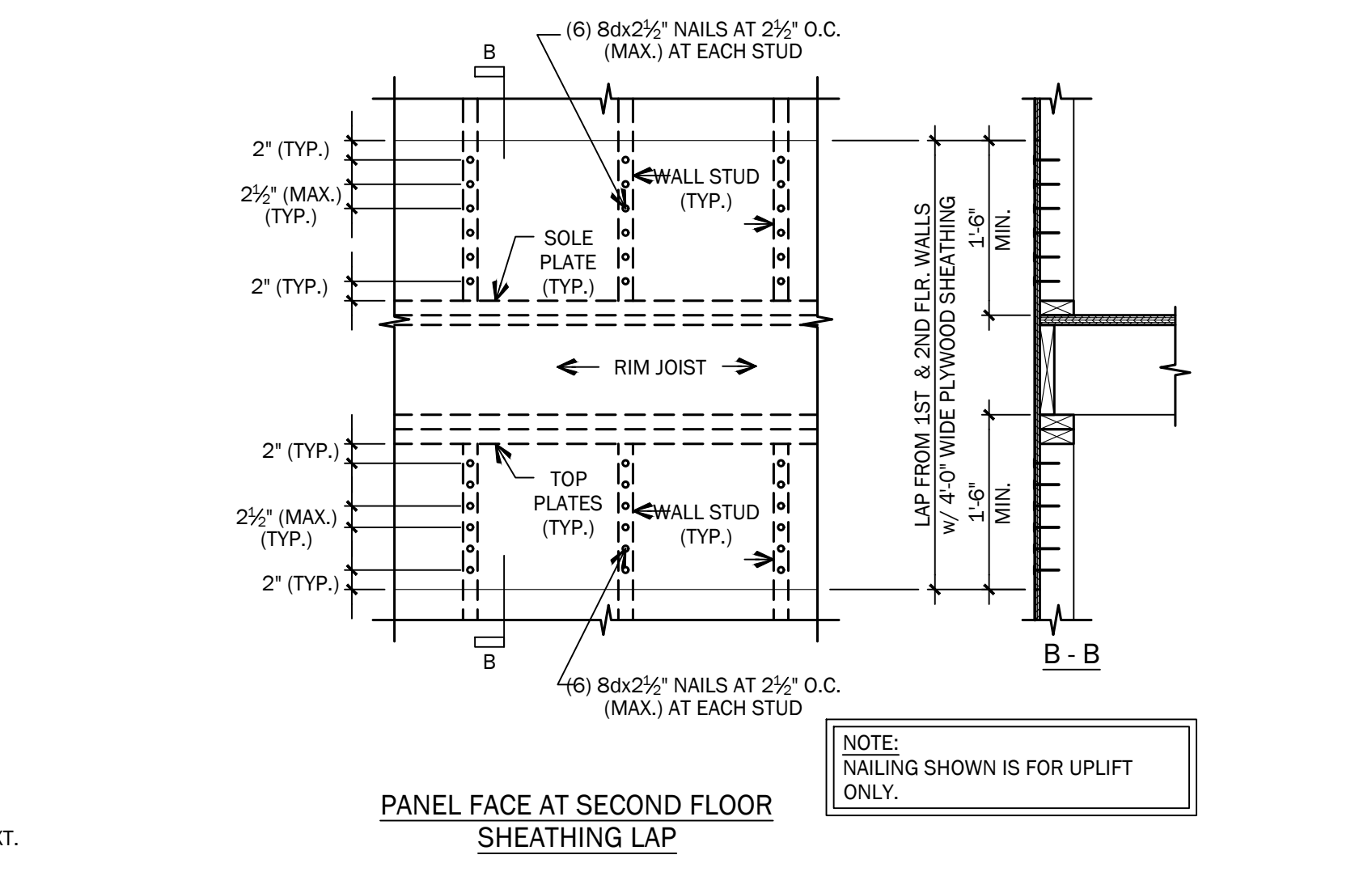
**TYPICAL WALL SECTION AT GARAGE**  
3/4" = 1'-0"



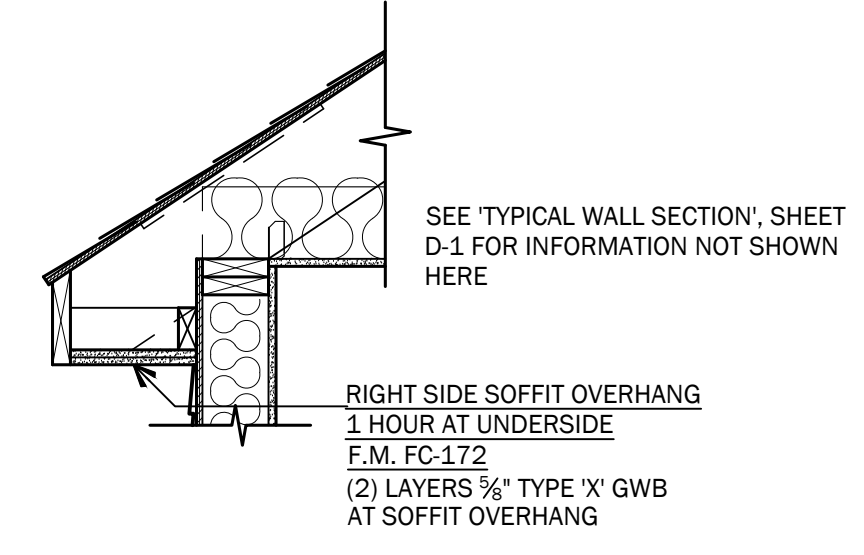
**TYPICAL WALL SECTION AT ROOF DECK**  
3/4" = 1'-0"



**TYPICAL WALL SECTION AT GROUND FLOOR**  
3/4" = 1'-0"



**ELEV. PIT DETAIL**  
3/4" = 1'-0"



**SOFFIT DETAIL BASED ON UL305**

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P.E. #00000000

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**CW ARCHITECTURE**

**ARMINIO RESIDENCE**  
LOT: 18 BLOCK: 15.26  
14 EAST SIGSBEE AVE. LONG BEACH TOWNSHIP - BRANT BEACH  
OCEAN COUNTY, NEW JERSEY

DETAILS

REVISIONS	Description
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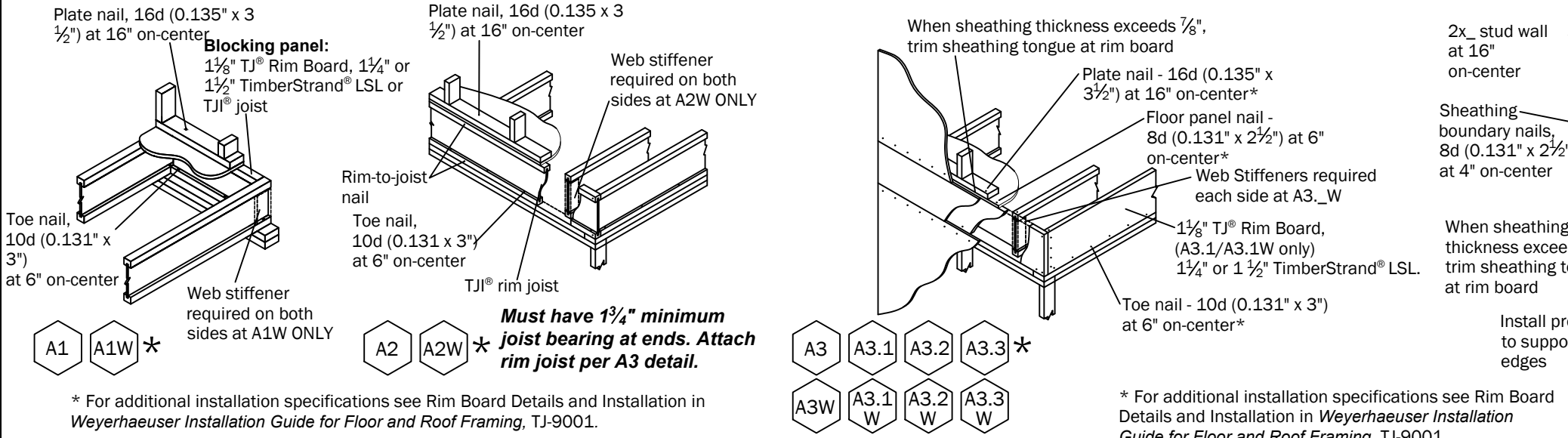
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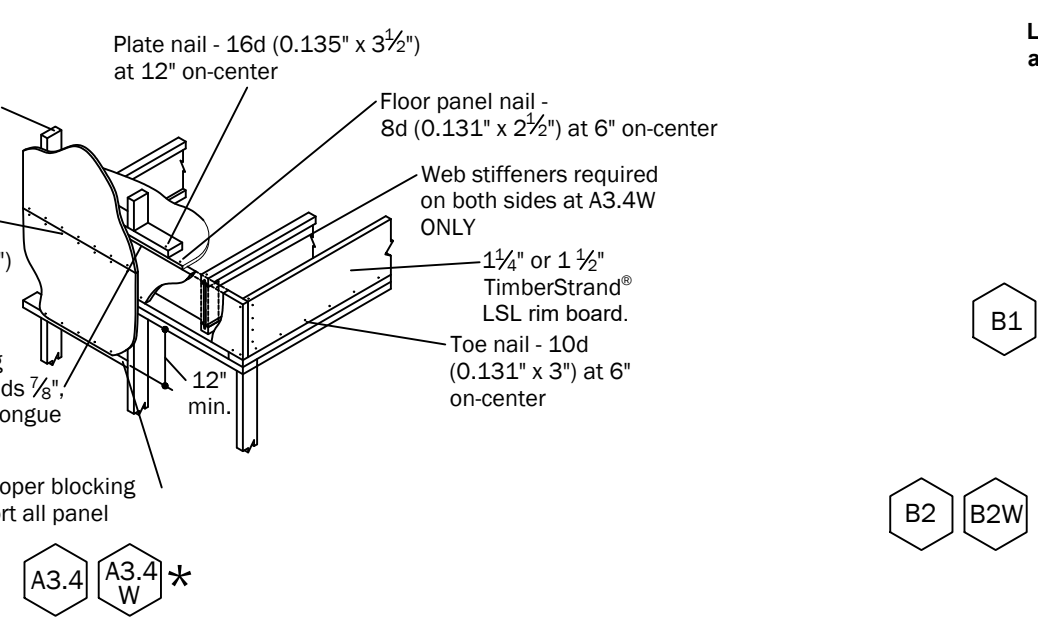
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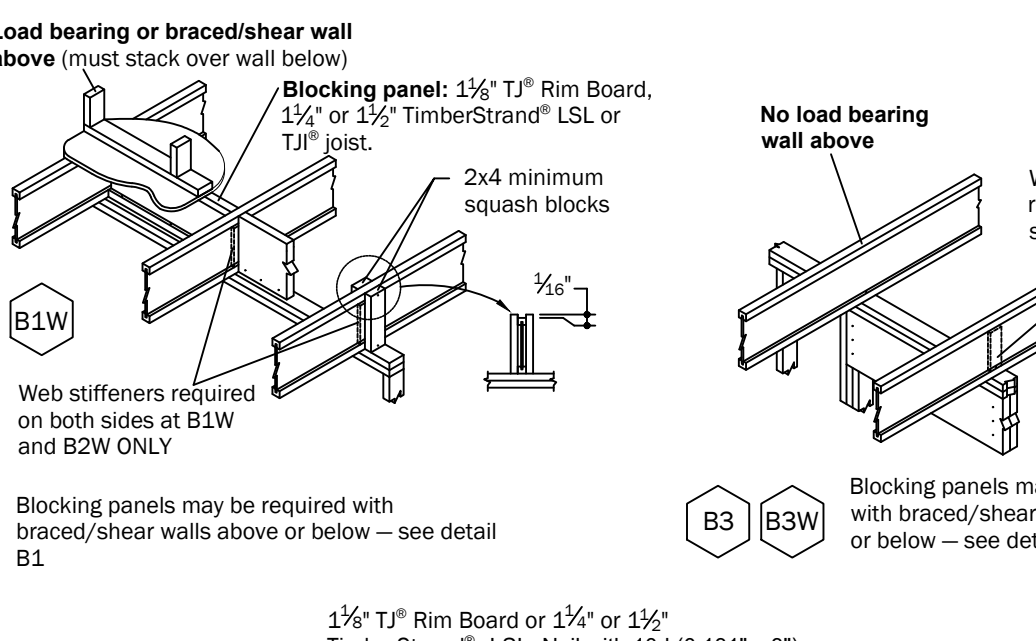
**JOIST DETAILS**



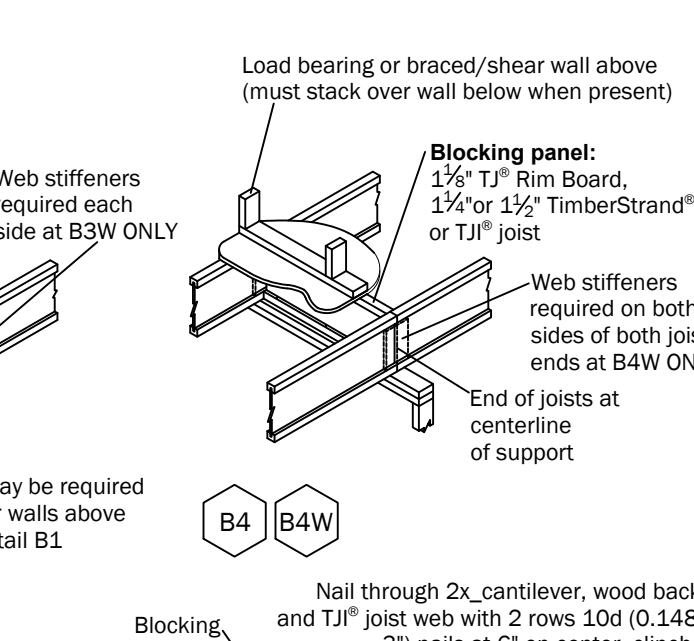
\* For additional installation specifications see Rim Board Details and Installation in Weyerhaeuser Installation Guide for Floor and Roof Framing, TJ-9001.



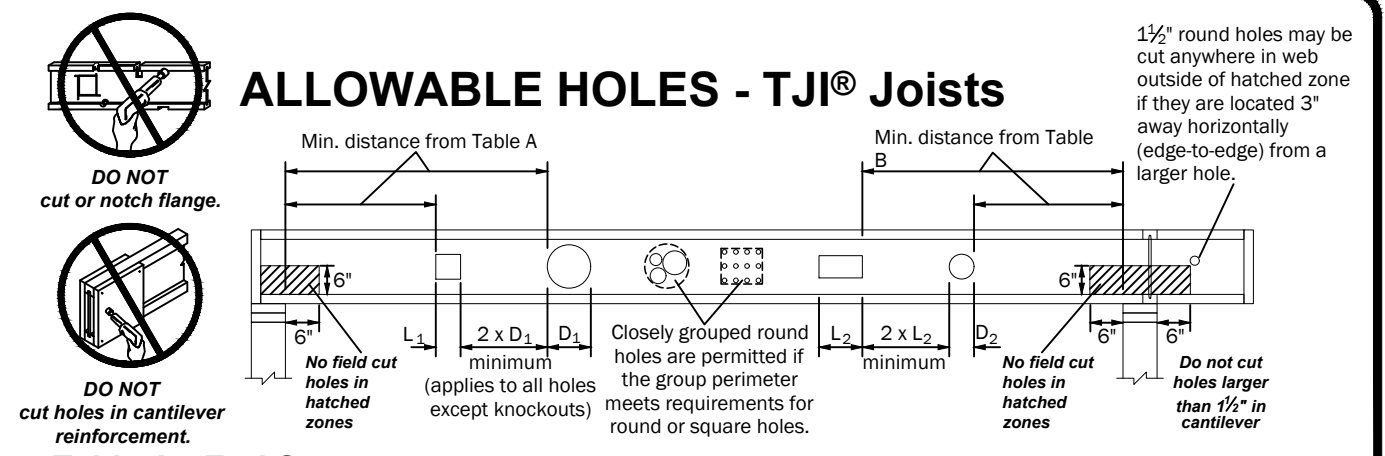
Blocking panels may be required with braced/shear walls above or below - see detail B1



Blocking panels may be required with braced/shear walls above or below - see detail B1



Blocking panels may be required with braced/shear walls above or below - see detail B1



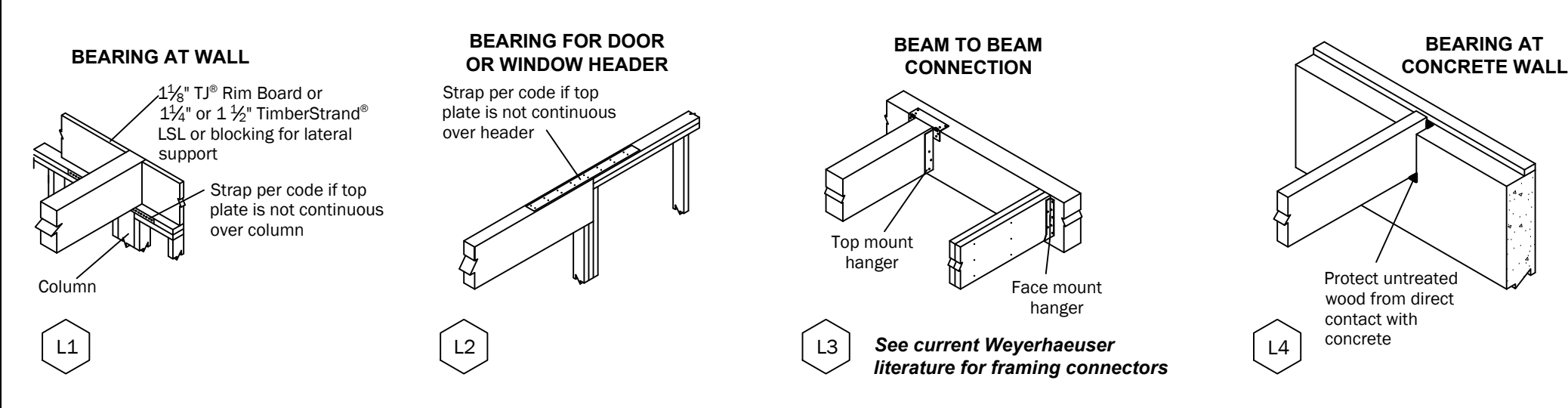
**Table A - End Support**  
Minimum distance from edge of hole to inside face of nearest end support

JOIST DEPTH	TJI®	ROUND HOLE SIZE										SQUARE OR RECTANGULAR HOLE SIZE									
		2"	3"	4"	6"	8"	10"	11"	12"	14"	16"	2"	3"	4"	6"	8"	10"	11"	12"	14"	16"
9 1/2"	110	1.0"	1.0"	2.0"	2.0"	3.0"	3.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	
	210	1.0"	1.0"	2.0"	2.0"	3.0"	3.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	
	330	1.0"	1.0"	2.0"	2.0"	3.0"	3.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	
	560	1.0"	1.0"	2.0"	2.0"	3.0"	3.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	5.0"	

**Table B - Intermediate or Cantilever Support**  
Minimum distance from edge of hole to inside face of nearest intermediate or cantilever support

JOIST DEPTH	TJI®	ROUND HOLE SIZE										SQUARE OR RECTANGULAR HOLE SIZE									
		2"	3"	4"	6"	8"	10"	11"	12"	14"	16"	2"	3"	4"	6"	8"	10"	11"	12"	14"	16"
9 1/2"	110	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	
	210	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	
	330	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	
	560	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	2.0"	

**BEAM DETAILS**



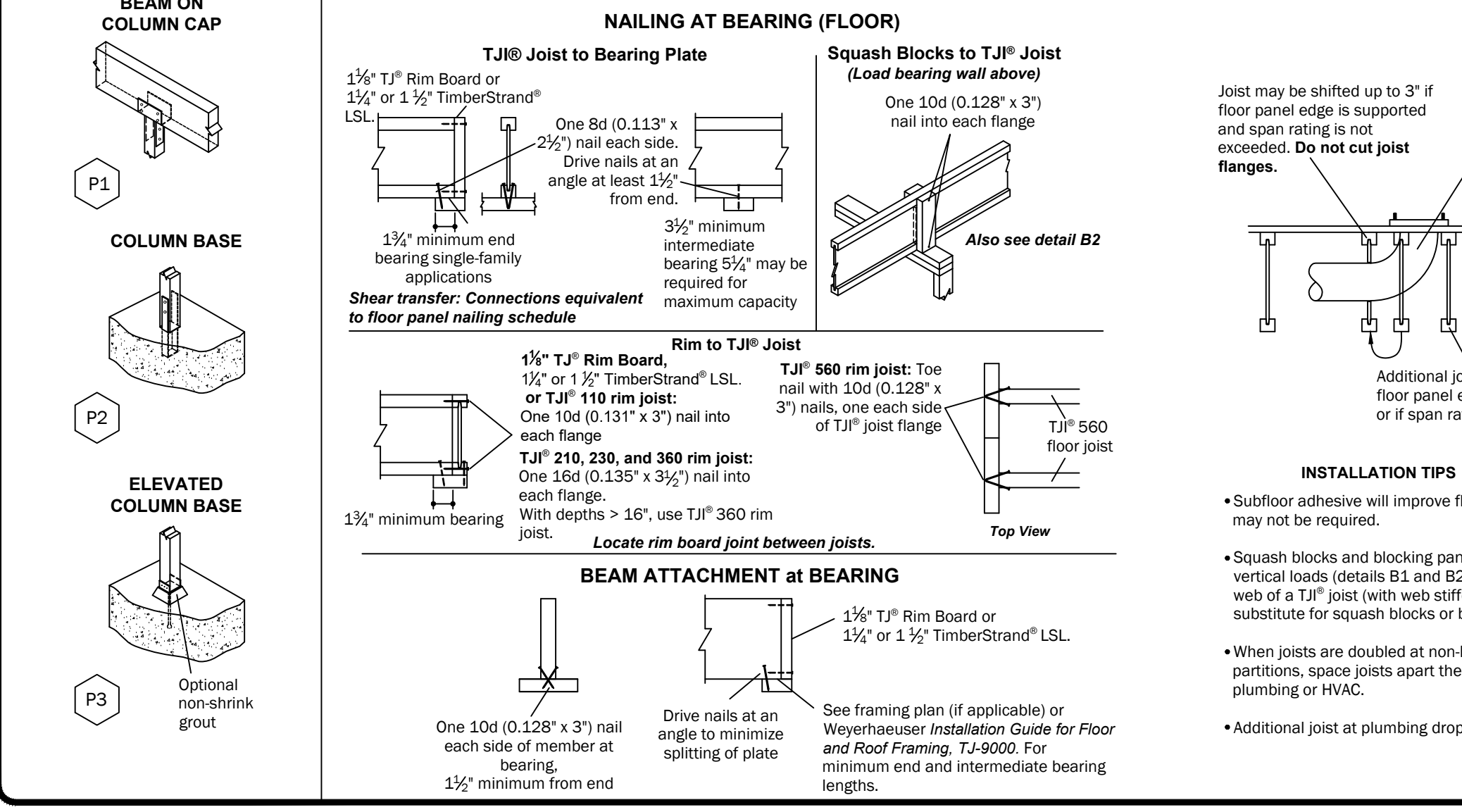
See current Weyerhaeuser literature for framing connectors

**FASTENER INSTALLATION REQUIREMENTS**

Piece Width	# of Piles	Type	Min. Length	# Rows	O.C. Spacing	Location
2	2	10d nails	3"	3 <sup>rd</sup>	12"	One side
		12d-16d Screws	3 1/2" or 3 3/4"	2 <sup>nd</sup>	24"	One side
3	3	10d nails	3"	3 <sup>rd</sup>	12"	Both sides
		12d-16d Screws	3 1/2" or 3 3/4"	2 <sup>nd</sup>	24"	Both sides
4	4	10d nails	3"	3 <sup>rd</sup>	12"	One side (per ply)
		12d-16d Screws	3 1/2" or 3 3/4"	2 <sup>nd</sup>	24"	One side
3 1/2"	2	Screws	5" or 6"	2	24"	Both sides
		1/2" bolts	8"	2	24"	One side

(1) 10d nails are 0.128" diameter, 12d-16d nails are 0.148" - 0.162" diameter; screws are SDS, SDW, USP, WS, or TrussLOK®  
(2) An additional row of nails is required with depths of 14" or greater.  
(3) When connecting 4-ply members, nail each ply to the other and offset nail rows by 2" from the rows in the ply below.

**Multiple-Member Connections for Top-Loaded Beams**



**FASTENING OF FLOOR PANELS**  
Guidelines for Closest On-Center Spacing per Row

Nail Size	110, 210, 330	360 and 560	1 1/2" TJI® Rim Board	1 1/2" TJI® Rim Board	1 1/2" TJI® Rim Board	1 1/2" TJI® Rim Board	1 1/2" TJI® Rim Board	1 1/2" TJI® Rim Board	1 1/2" TJI® Rim Board	1 1/2" TJI® Rim Board
8d (0.113" x 2 1/2"), 8d (0.131" x 2 1/2")	4"	4"	6"	4"	3"	3"	4"	4"	4"	4"
10d (0.148" x 3"), 10d (0.148" x 3 1/4")	4 1/8"	4 1/8"	6"	4"	3"	3"	4"	4"	4"	4"
16d (0.162" x 3 1/2")	6"	6"	16 1/8"	6 1/8"	6 1/8"	6 1/8"	6 1/8"	6 1/8"	6 1/8"	6 1/8"

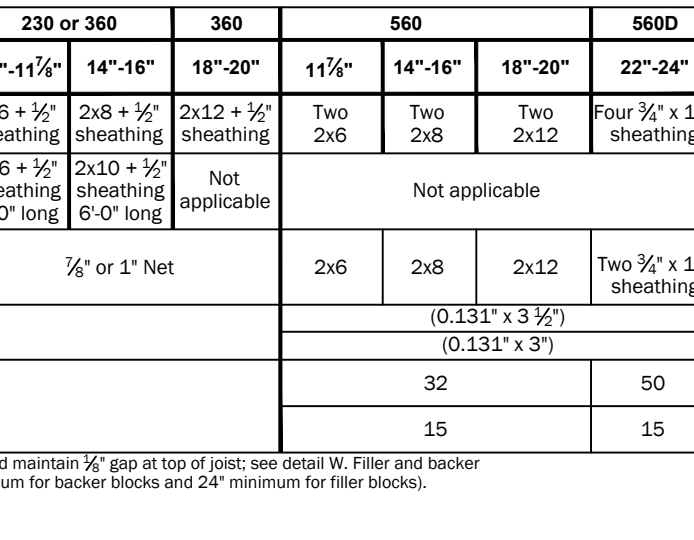
(1) Stagger nails when using 4" on-center spacing and maintain 3/8" joist and panel edge distance. One row of fasteners is permitted two at abutting panel edges for diaphragm. Fastener spacing for TJI joists in diaphragm applications cannot be less than shown in table. When fastener spacing for blocking is less than spacing shown above, rectangular blocking must be used in lieu of TJI joists.  
(2) For non-diaphragm applications, multiple rows of fasteners are permitted if the rows are offset at least 1/2" and staggered.  
(3) With 10d (0.148" x 3") nails, spacing can be reduced to 3" on-center for light gauge steel straps.  
(4) Can be reduced to 5" on-center if nail penetration into the narrow edge is no more than 1/2" (to minimize splitting).  
(5) Can be reduced to 4" on-center if nail penetration into the narrow edge is no more than 1/4" (to minimize splitting).  
(6) Can be reduced to 3 1/2" on-center if nail penetration into the narrow edge is no more than 3/8" (to minimize splitting).  
■ Recommended nailing is 12" on-center in field and 6" on-center along panel edge. Fastening requirements on engineered drawings supersede recommendations listed above.  
■ Maximum nail spacing for TJI joists is 18" on-center.  
■ 14 ga. staples may be substituted for 8d (0.113" x 2 1/2") nails if minimum penetration of 1" into the TJI joist or rim board is achieved.  
■ To minimize splitting, maintain edge distance and row spacing of 2 1/2" x nail diameter or 3/8", whichever is greater.  
■ Nailing rows must be offset at least 1/2" and staggered.  
■ For recommended nailing and adhesives, see INSTALLATION RECOMMENDATIONS on page 2 of the Weyerhaeuser Installation Guide for Floor and Roof Framing, TJ-9001.

**FILLER AND BACKER BLOCK SIZES**

TJI® Joist	110	210	230 or 360	360	560	560D
Depth	9 1/2"-11 1/2"	14"-16"	9 1/2"-11 1/2"	14"-16"	18"-20"	11 1/2"
Filler Block H <sub>1</sub> (Detail H <sub>1</sub> )	2x6	2x8	2x6 + 3/8" sheathing	2x8 + 3/8" sheathing	2x12 + 1/2" sheathing	Two 2x6
Cantilever Filler (Detail E <sub>1</sub> )	2x6	2x8	2x6 + 3/8" sheathing	2x8 + 3/8" sheathing	2x12 + 1/2" sheathing	Two 2x12
Backer Block H <sub>2</sub> (Detail F <sub>1</sub> or H <sub>2</sub> )	3/4" or 3/8"	3/4" or 3/8"	3/4" or 3/8"	3/4" or 3/8"	3/4" or 3/8"	Not applicable
Nail Size	(0.131" x 3")					
Filler	(0.131" x 3 1/2")					
Backer	50					
Quantity	15					

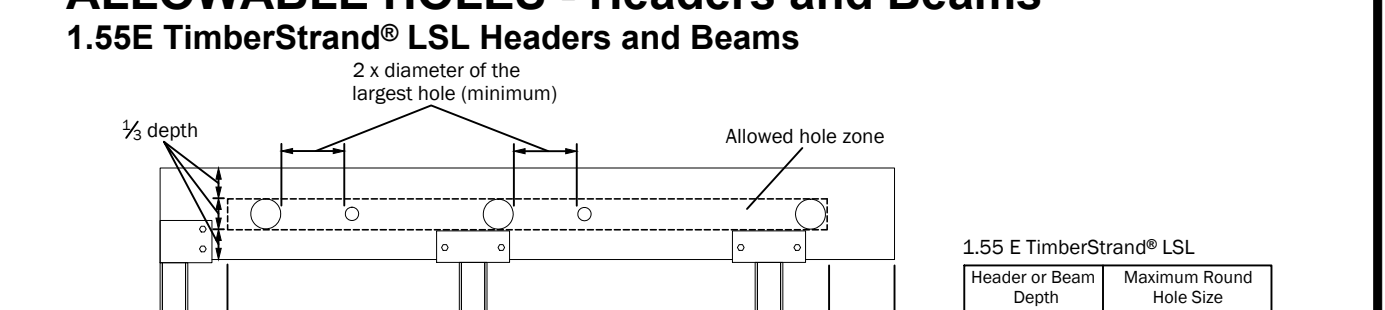
(1) If necessary, increase filler and backer block height for face mount hangers and maintain 3/8" gap at top of joist; see detail W. Filler and backer block dimensions should accommodate required nailing without splitting (1" minimum for backer blocks and 2" minimum for filler blocks).  
(2) Clinch nails when possible.

**EXTERIOR DECK ATTACHMENT**



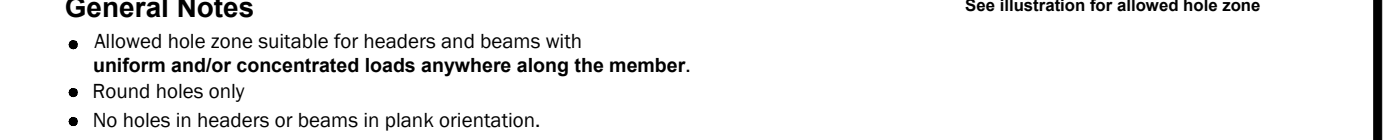
When specified on the layout, one of the bracing options above is required

**ALLOWABLE HOLES - Headers and Beams**  
1.55E TimberStrand® LSL Headers and Beams



General Notes:  
• Allowed hole zone suitable for headers and beams with uniform and/or concentrated loads anywhere along the member.  
• Round holes only.  
• No holes in cantilevers.  
• No holes in headers or beams in plank orientation.

**Other Trus Joist® Headers and Beams**



General Notes:  
• Allowed hole zone suitable for headers and beams with uniform loads only.  
• Round holes only.  
• No holes in cantilevers.  
• No holes in headers or beams in plank orientation.

**WARNING**  
Joists are unstable until braced laterally

Bracing Includes:  
• Blocking  
• Hangers  
• Sheathing  
• Rim Board  
• Strut Lines  
• Rim Joist

DO NOT walk on joists until braced. INJURY MAY RESULT.  
DO NOT walk on joists that are lying flat.  
DO NOT stack building materials on unbraced joists. Stack only over beams or walls.

Lack of proper bracing during construction can result in serious accidents. Observe the following guidelines:  
1. All blocking, hangers, rim boards and rim joists at the end supports of the TJI joist must be completely installed and properly nailed.  
2. Lateral strength, like braced end wall or an existing deck, must be established at the ends of the bay. This can also be accomplished by a temporary or permanent deck (sheathing fastened to the first 4 feet of joists at the end of the bay).  
3. Safety bracing with 1x4 (minimum) must be installed to a braced end wall or sheathed area (as in note 2) and to each joist. Install bracing with 2 - 5d (0.131" x 2 1/2") nails each joist and end support at 5 ft on center (6 ft for TJI 110 joists). Without this bracing, buckling sideways or rollover is highly probable under light construction loads - such as a worker or one layer of unbraced sheathing.  
4. Sheathing must be completely attached to each TJI joist before additional loads can be placed on the system.  
5. Ends of cantilevers require safety bracing on both the top and bottom flanges.  
6. The flanges must remain straight within 1/2" from true alignment.  
7. See www.wy.com/besafe for additional installation information.

Warning: Drilling, sawing, sanding or machining wood products generates wood dust. The paint and/or coating on this product may contain titanium dioxide. Wood dust and titanium dioxide are substances known to the state of California to cause cancer. For more information on Proposition 65, visit www.cdc.gov/inform.

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