

# 3541-43 HAVEN LLC

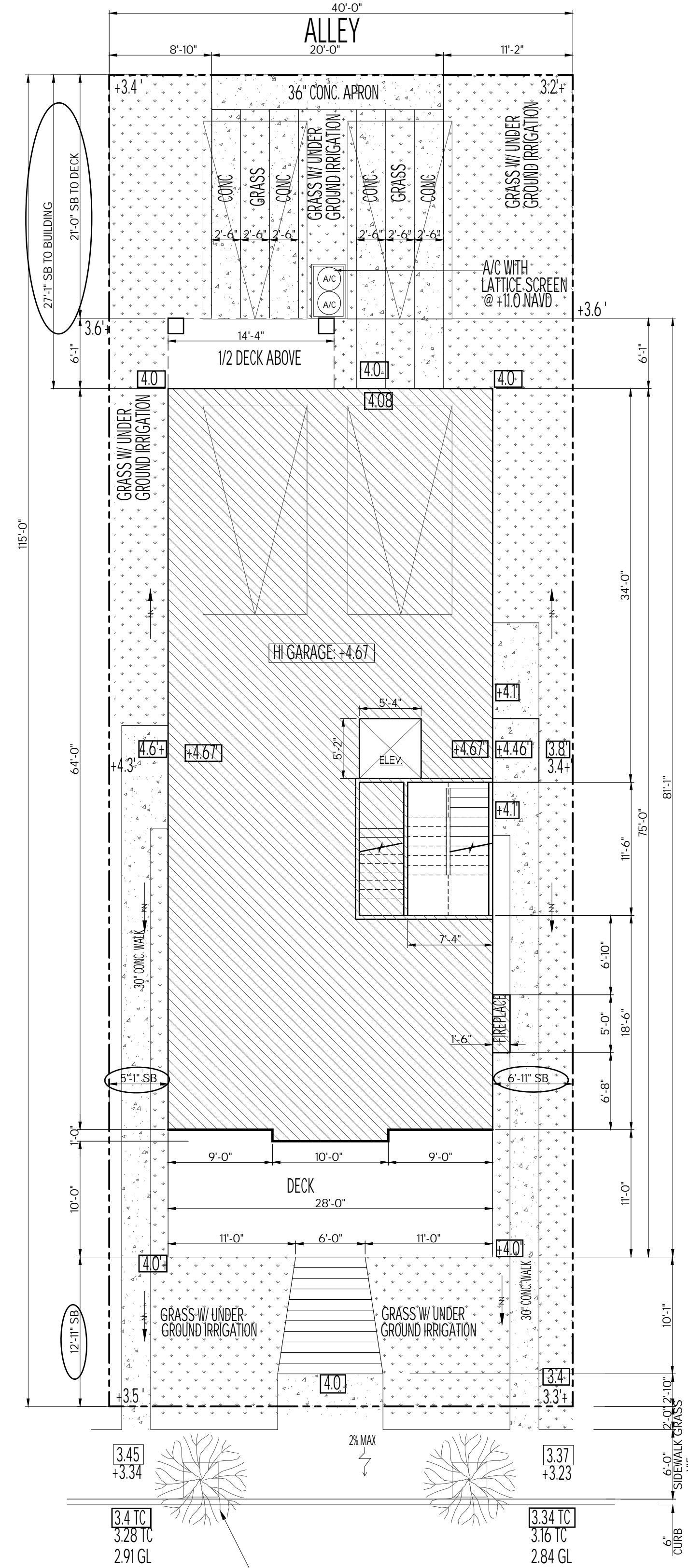
## 3541-43 HAVEN AVE

LOT 3 BLOCK 3504  
 LOT SIZE = 4,600  
 BUILDING COVERAGE = 1,740 SF, 37.8%  
 (ALLOWABLE = 1,748 SF, 38%)  
 IMPERVIOUS COVERAGE = 2,878 SF, 62.5%  
 (ALLOWABLE = 2,990 SF, 65%)  
 RIDGE EL. = 41.60'  
 HI GARAGE = +4.67' NAVD  
 FIRST FL. EL. = +12.0 NAVD  
 BFE = +9' NAVD  
 PROPOSED STRUCTURE TO HAVE GUTTERS  
 AND DOWNSPOUTS

NOTE  
 SIDEWALKS AND DRIVEWAYS SHALL HAVE A MINIMUM CONCRETE THICKNESS OF 4" EXCEPT WHERE THE SIDEWALK IS PART OF A DRIVEWAY IN WHICH CASE THE MINIMUM CONCRETE THICKNESS SHALL BE 6". MINIMUM SIDEWALK WIDTH SHALL BE 6' EXCEPT IN THOSE BLOCKS OR AREAS WHERE PARTIALLY DEVELOPED SIDEWALKS OF LESSER OR GREATER WIDTHS EXIST.

THAT PORTION OF THE DRIVEWAY FROM THE INTERIOR PROPERTY LINE TO THE STREET SHALL HAVE A MINIMUM THICKNESS OF 6" AND SHALL BE CONSTRUCTED OF CONCRETE. ALL DRIVEWAYS SHALL BE REINFORCED WITH WELDED WIRE FABRIC (MIN. 6X6), FIBERMESH, OR AN EQUIVALENT APPROVED BY THE CITY ENGINEER OR HIS DESIGNEE.

EXPANSION JOINTS SHALL BE INSTALLED AT INTERVALS NOT EXCEEDING 20'. PREFORMED BITUMINOUS CELLULAR JOINT FILLERS 1/2" THICK SHALL BE PLACED IN THE EXPANSION JOINTS. FORMED JOINTS SHALL BE CUT INTO THE CONCRETE SIDEWALK BETWEEN THE EXPANSION JOINTS AT EQUAL INTERVALS NOT EXCEEDING WITH WIDTH OF THE SIDEWALK.



(2) REGENT SCHOLOR TREES 2.5'-3" CAL / BB/ 12'-14' TALL W/ NO BRANCHES BELOW 7'-0" MIN. 30' FROM ADJACENT TREES, TYP.

PLOT PLAN  
 SCALE: 1/8" = 1'-0"



HAVEN AVE ELEVATION

### November 9, 2022

### Working Drawings

#### BUILDING DATA

2018 INTERNATIONAL RESIDENTIAL CODE, NJ. ED.  
 USE GROUP = R5  
 CONSTRUCTION TYPE = 5B  
 TOTAL BLDG. SF = 3,634 SF  
 TOTAL STRUCTURAL VOLUME = 50,820 CF  
 BUILDING COVER (Not Impervious) = 2,268 SF  
 FLOOD ZONE = AE  
 BASE FLOOD ELEVATION = +9.0' NAVD 88

#### LIST OF DRAWINGS

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5-17-18	FR15	WOOD FRAMING DETAILS
12-14-16	TJ/HHD	TJ/HHD DETAILS
4-20-13	FS-1	FIRE STOPPING DETAILS

3541-43 HAVEN LLC  
 3541-43 HAVEN AVENUE  
 LOT: 3 BLOCK: 3504  
 OCEAN CITY, NJ

TITLE

**THOMAS / BECHTOLD**  
 ARCHITECTURE & ENGINEERING

Andrew Bechtold  
 17642

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Date: 11-09-22

File No:

Scale: AS NOTED

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LEFT & FRONT ELEVATIONS

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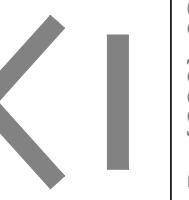
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- STANDING SEAM METAL ROOF
- RIDGE VENT W/ SHINGLE CAP
- NICEDAR NICKEL GAP ONLY ON FRONT BAY
- 30 YR DIMENSIONAL ASPHALT ROOFING SHINGLES
- 1X4 AZEK TRIM OVER 1X8 AZEK FASCIA
- VINYL WINDOWS & DOORS
- HORIZONTAL VINYL SIDING W/ 4" TRIM @ CORNERS
- CANVAS AWNINGS
- 4" WHITE WINDOW SURROUNDS
- 12" COLUMNS SQUARE
- VINYL POSTS & RAILINGS
- 18" SQ. BRICK VENEER FLINTS
- 2 OVER 10 AZEK BARGE BOARD
- 2 X 6 AZEK PANELS
- STUCCO

LEFT SIDE ELEVATION

NOTE: ALL WINDOWS MORE THAN 6'-0" ABOVE GRADE, DECKS OR PORCHES MUST HAVE SILLS 24" N. AFF



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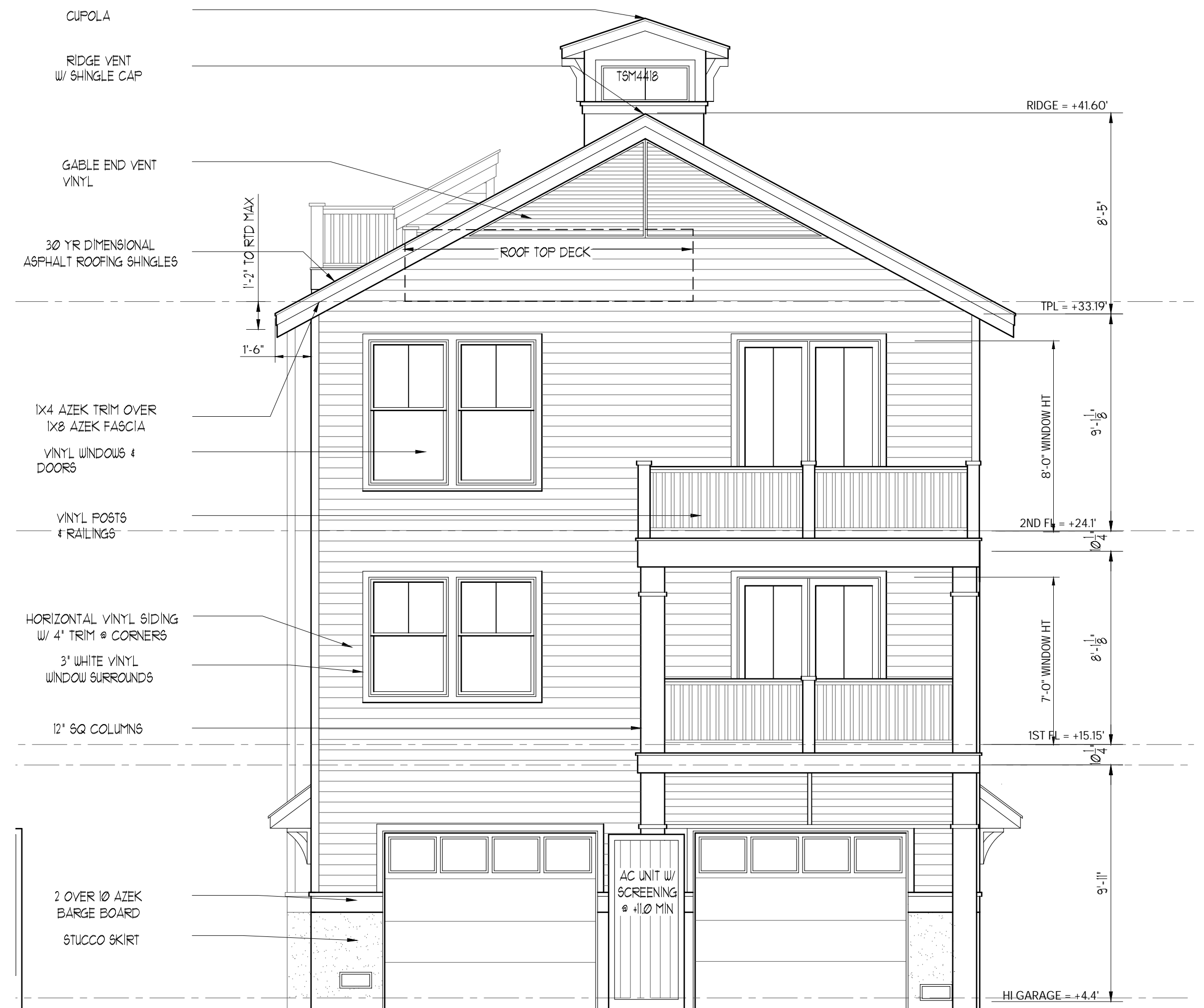
HAVEN AVE ELEVATION

NOTE: ALL WINDOWS MORE THAN 6'-0" ABOVE GRADE, DECKS OR PORCHES MUST HAVE SILLS 24" N. AFF



**RIGHT SIDE ELEVATION**

NOTE: ALL WINDOWS MORE THAN 6'-0" ABOVE GRADE, DECKS OR PORCHES MUST HAVE SILLS 24 IN. AFF



**ALLEY ELEVATION**

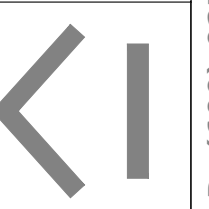
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RIGHT & REAR  
 ELEVATIONS

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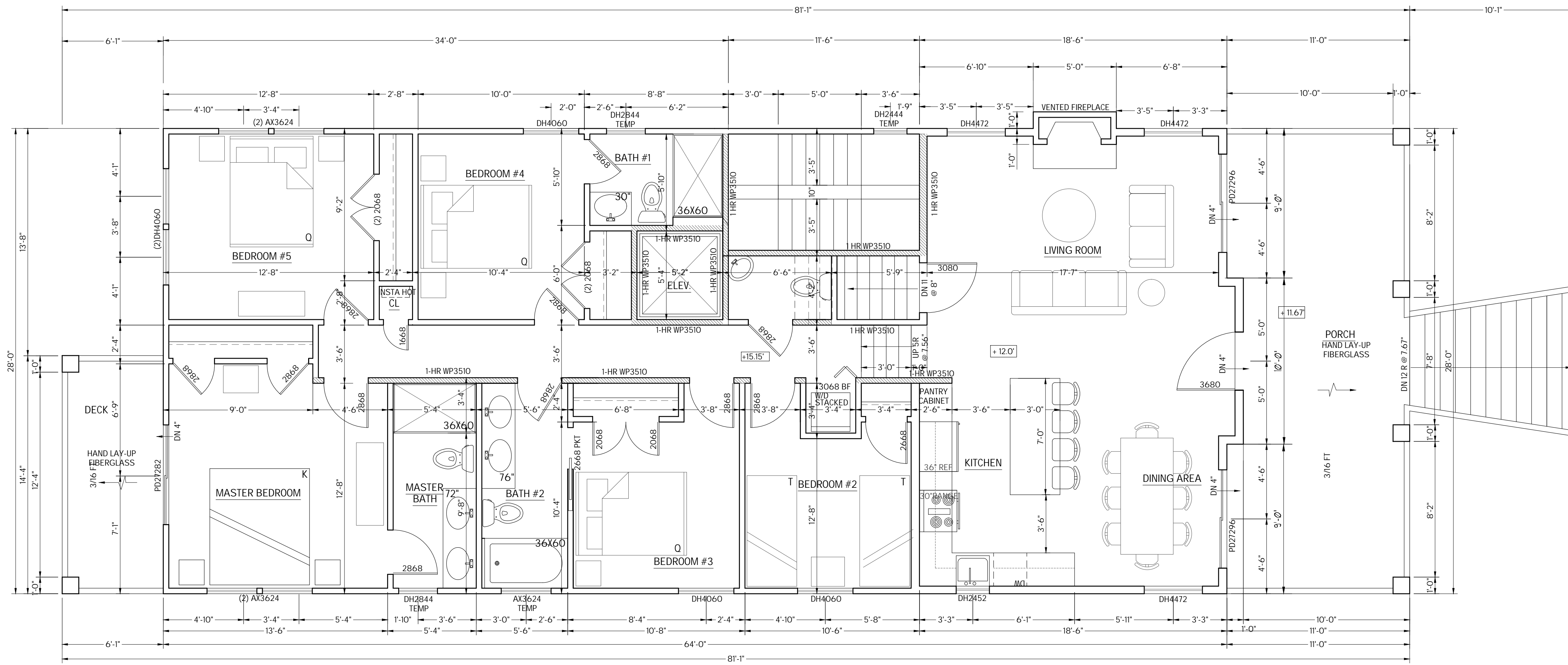
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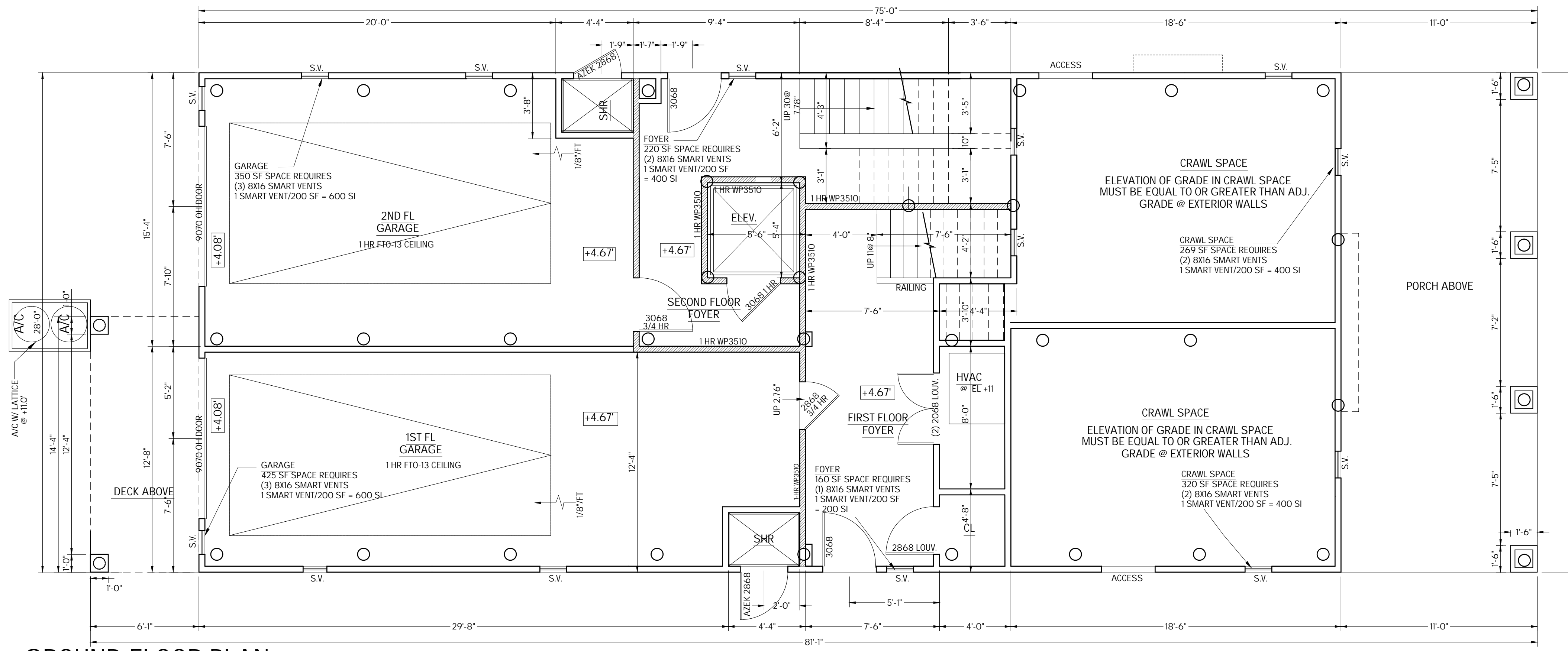
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Date: 11-09-22	File No: 21022
Scale: 1/4"=1'-0"	Dwg. No. A-2
Drawn: RMB/SLM	Checked: GWT/ACB



**FIRST FLOOR PLAN**

NOTE: ALL WINDOWS MORE THAN 6'-0" ABOVE GRADE, DECKS OR PORCHES MUST HAVE SILLS 24 IN. AFF  
1,694 SF



**GROUND FLOOR PLAN**

ELEVATION OF GRADE IN GROUND FLOOR MUST BE EQUAL TO OR GREATER THAN ADJ. GRADE @ EXTERIOR WALLS  
NOTE: ALL WINDOWS MORE THAN 6'-0" ABOVE GRADE, DECKS OR PORCHES MUST HAVE SILLS 24 IN. AFF

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GROUND & FIRST  
FLOOR PLANS

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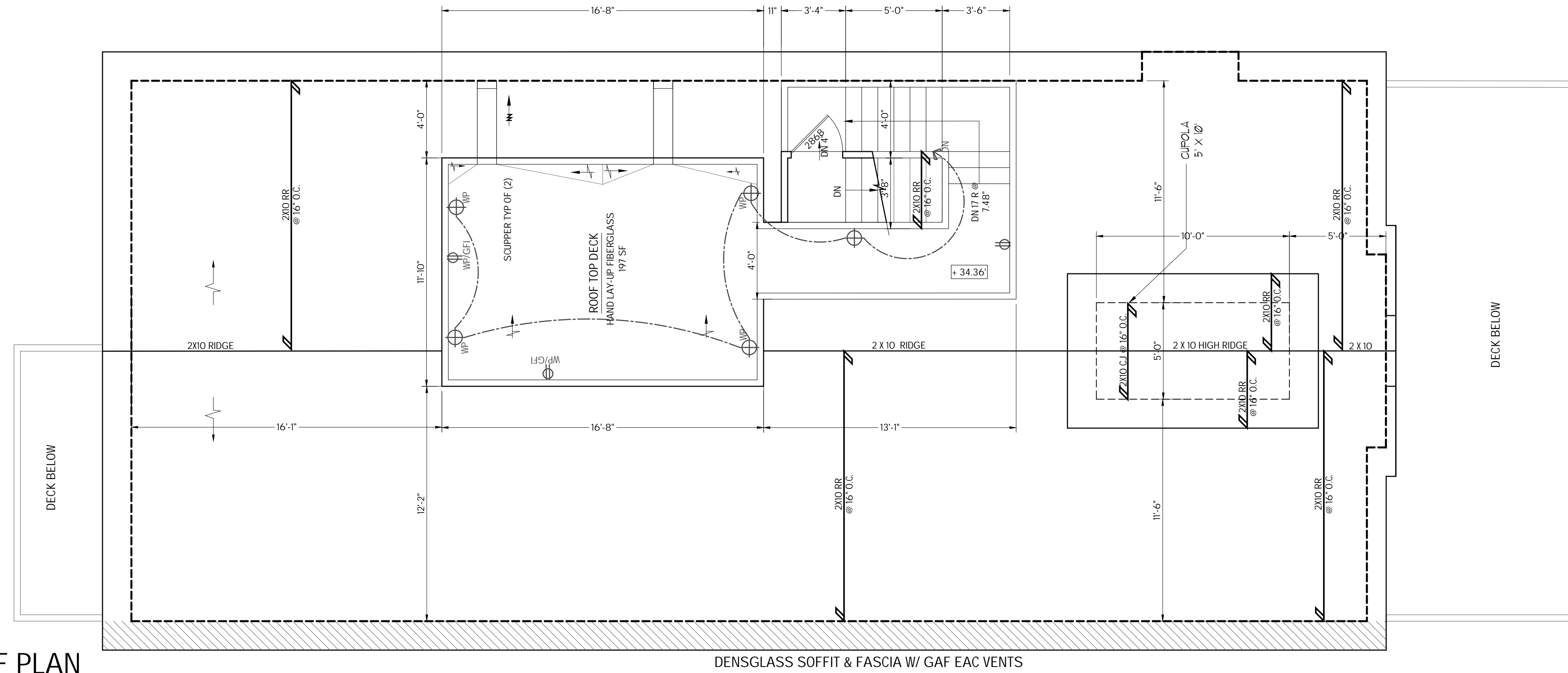
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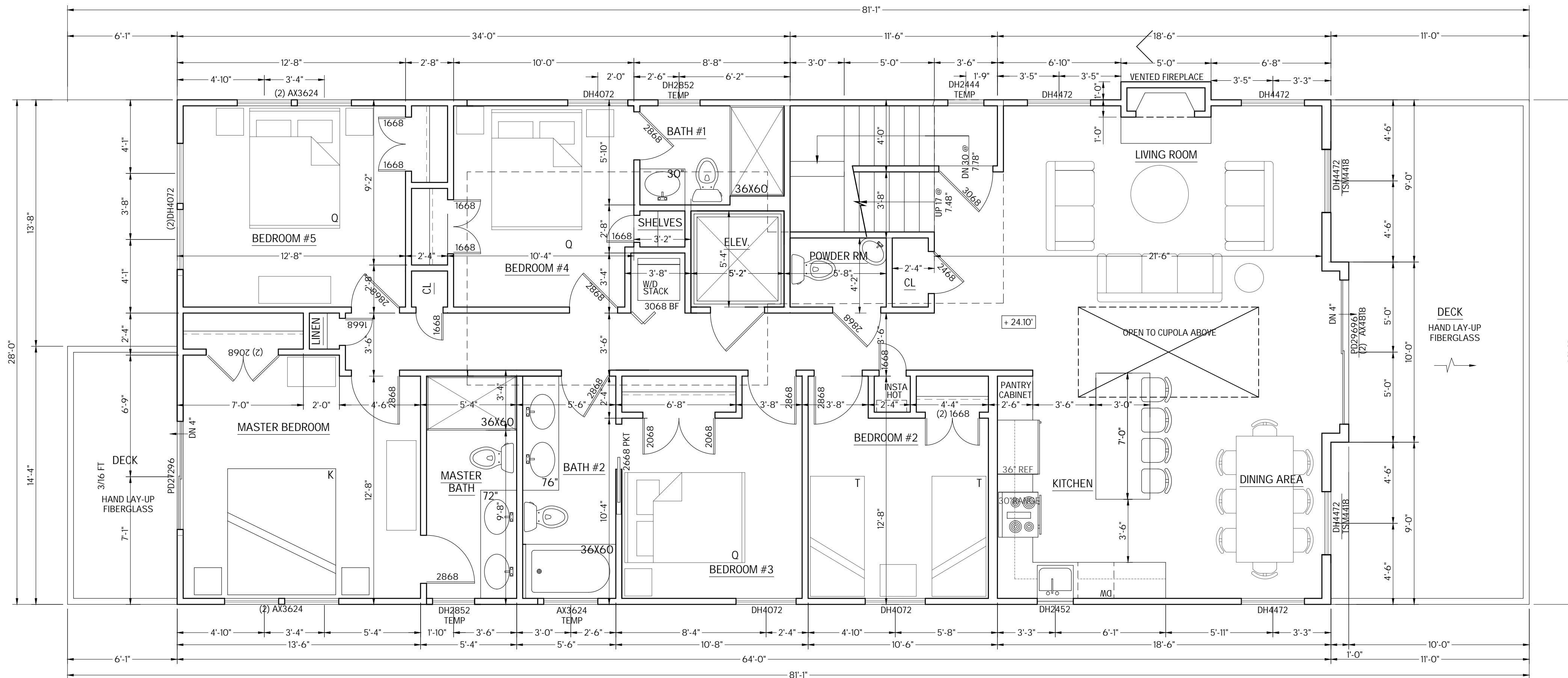
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**ROOF PLAN**

FLAT ROOF (LESS THAN 4 ON 12): 197 SF, 8.4%  
 1,053 SF/300=3.51 SF X 144= 505.44/65= 7.78= (8) GAF EACH 8"x16" SOFFIT VENTS  
 TOTAL= 8 VENTS X 128 = 1,024 SF/144= 7.11 SF/102= 6.9% OF SOFFITS TO BE VENTED  
 CUPOLA IS 50 SF / 2,068 SF (ROOF AREA) = 2.3%



**SECOND FLOOR PLAN**

NOTE: ALL WINDOWS MORE THAN 6'-0" ABOVE GRADE.  
 DECKS OR PORCHES MUST HAVE SILLS 24 IN. AFF

1740 SF

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**SECOND FLOOR & ROOF PLANS**

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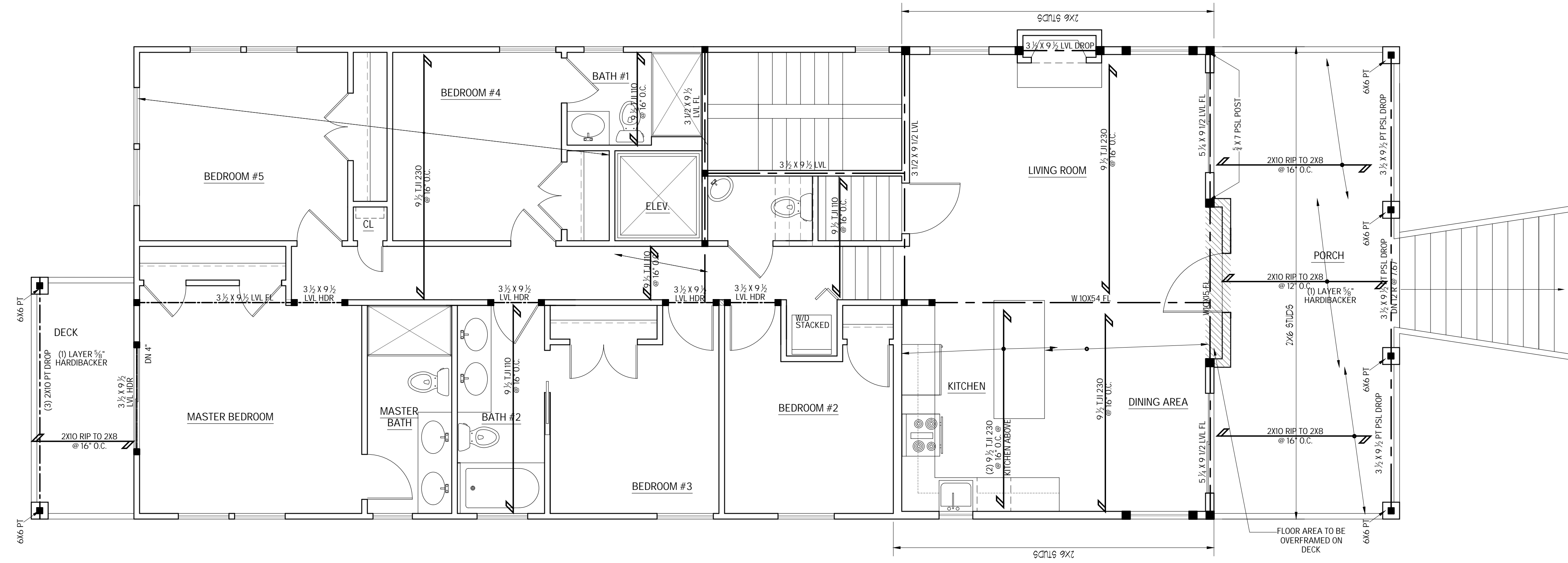
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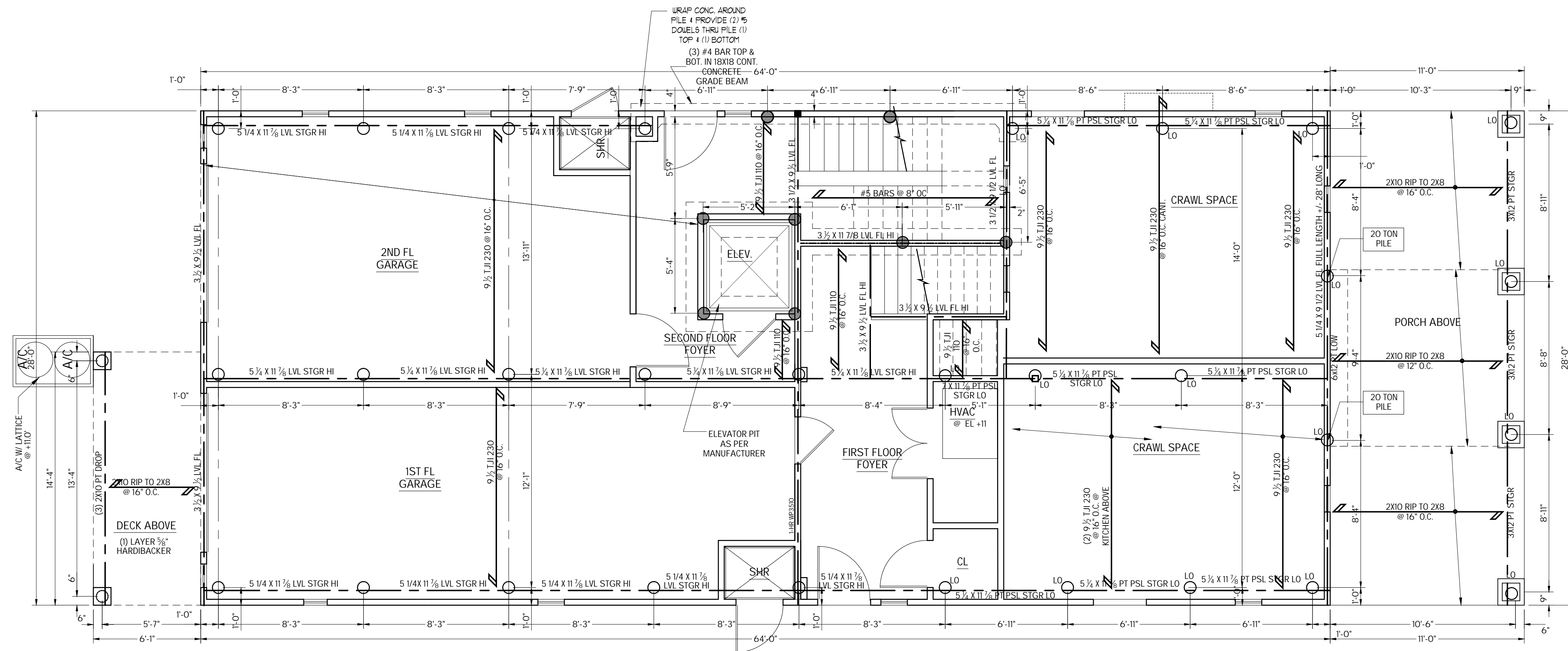
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**FIRST FLOOR PLAN**

NOTE: PT LUMBER SHALL HAVE FIELD APPLIED COATING  
 MANUFACTURER: NO-BURN PLUS  
 NOTE: 2X6 STUD WALLS @ 1ST FLOOR STREET SIDE

1,694 SF



**GROUND FLOOR PLAN**

NOTE: PT LUMBER SHALL HAVE FIELD APPLIED COATING  
 MANUFACTURER: NO-BURN PLUS OR SAFE-T-GUARD BY FIRE TECT.

**POST LEGEND**

- POST FROM ABOVE
- MIN (3) 2X WALL THICKNESS UNLESS OTHERWISE NOTED

**PILING LEGEND**

- PILE STRINGER
- ▨ PILE GRADE BEAM

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**GROUND & 1ST FLOOR  
 STRUCTURAL PLANS**

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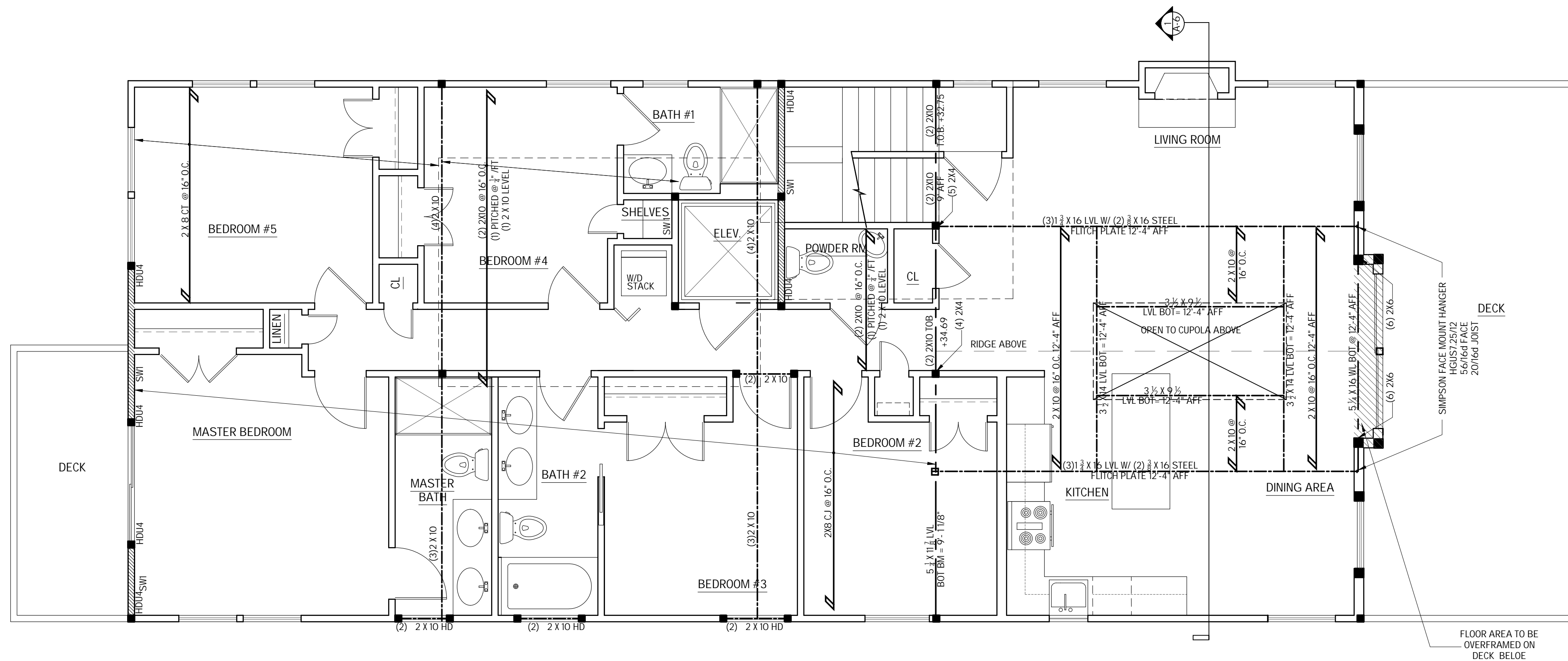
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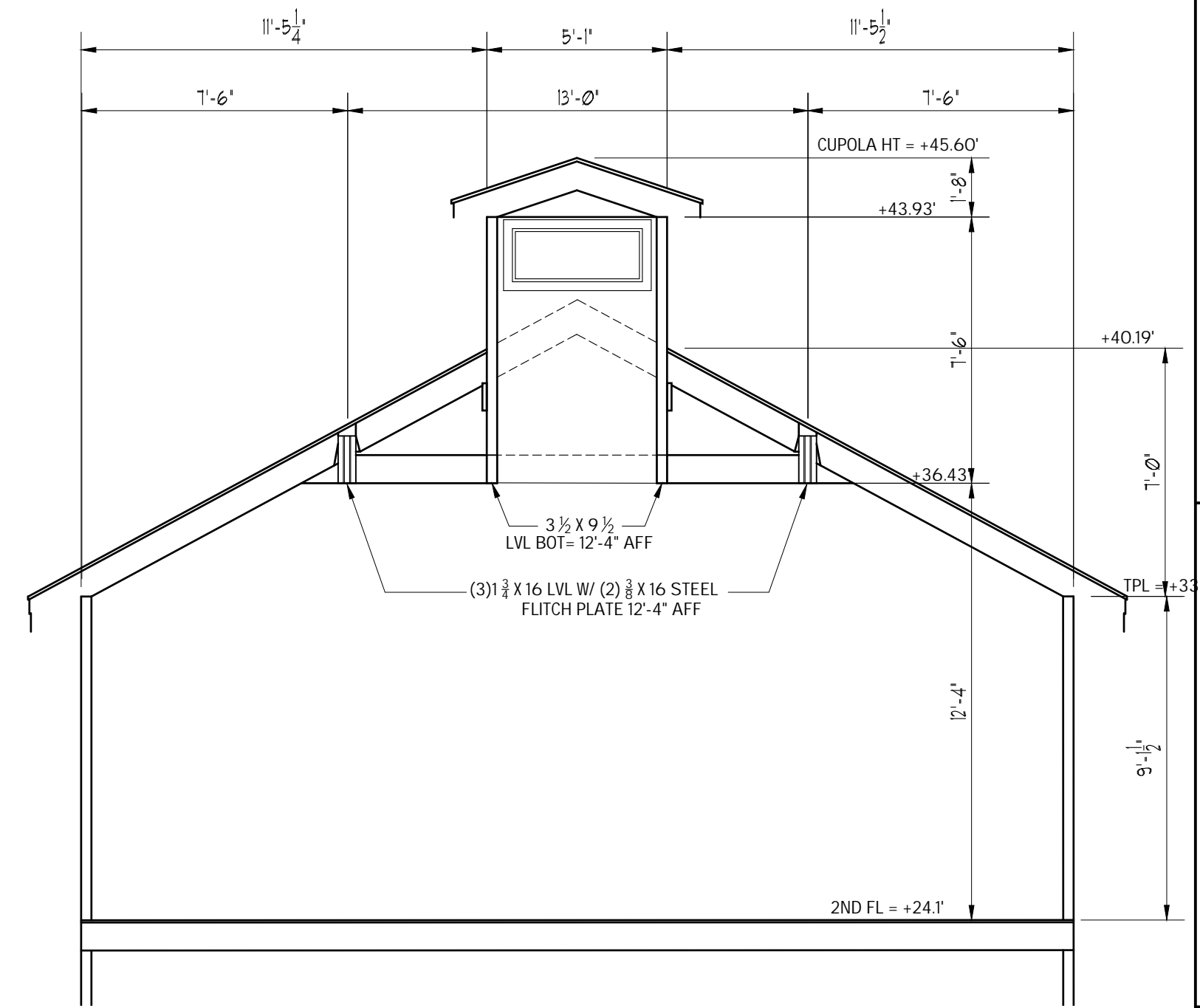
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**SECOND FLOOR PLAN**

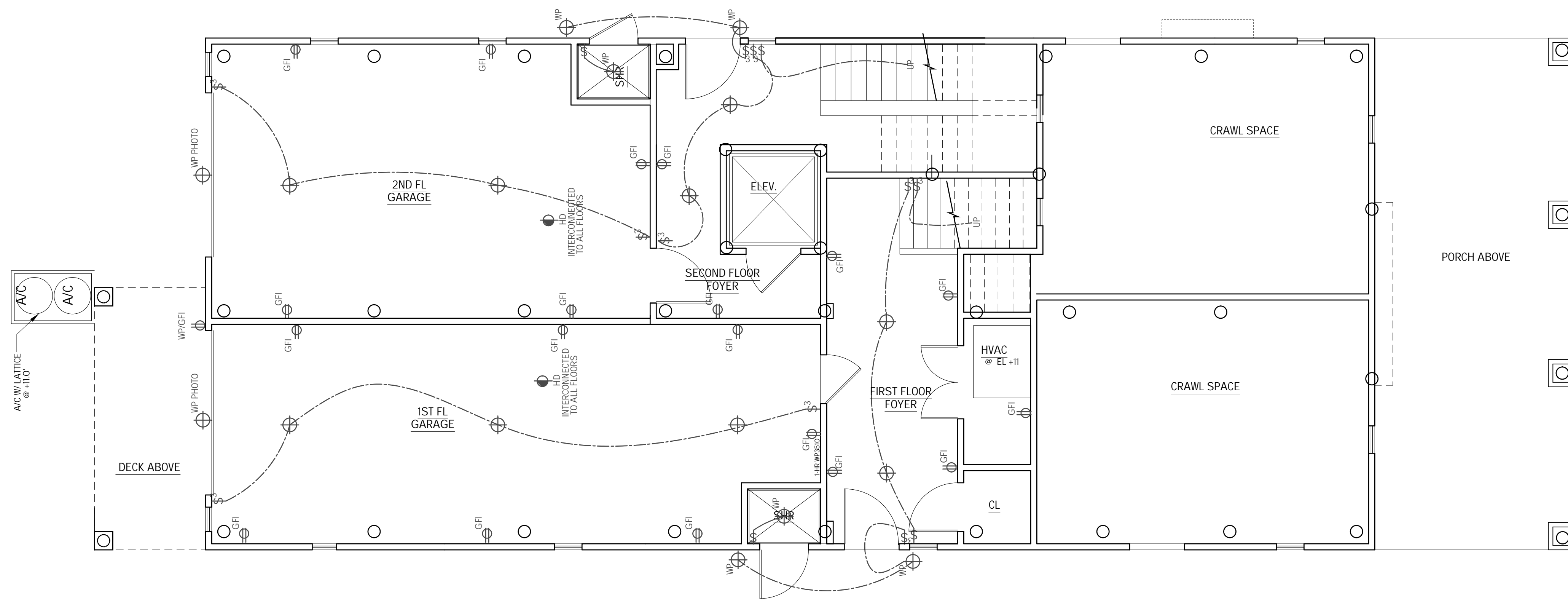
NOTE: PT LUMBER SHALL HAVE FIELD APPLIED COATING MANUFACTURER: NO-BURN PLUS

1740 SF



**SECTION @ CUPOLA**

1/4"=1'



**GROUND FLOOR PLAN**

NOTE:  
 - ALL CEILING FANS TO HAVE LIGHTS.  
 - SD's MUST BE LOCATED MIN OF 36" AWAY FROM TIPS OF FAN BLADES,  
 BATHROOM DOORS W/ TUB / SHOWER + HVAC SUPPLY OUTLETS, TYP.  
 - CARBON MONOXIDE ALARMS / DETECTORS, WHERE REQUIRED, SHALL BE  
 INSTALLED NO MORE THAN 10'-0" FROM ALL SLEEPING ROOMS

ELECTRICAL LEGEND			
	ELECTRIC FAN		GFI OUTLET
	CABLE		WATERPROOF GFI OUTLET
	SMOKE DETECTOR		LIGHT
	SMOKE DETECTOR & CARBON MONOXIDE		PENDANT LIGHT
	ELECTRIC SWITCH		WATERPROOF LIGHT
	OUTLET		CHANDELIER
	FLOOR OUTLET		FAN WITH LIGHT

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2ND FLOOR  
 STRUCTURAL &  
 GROUND FLOOR  
 ELECTRICAL PLANS

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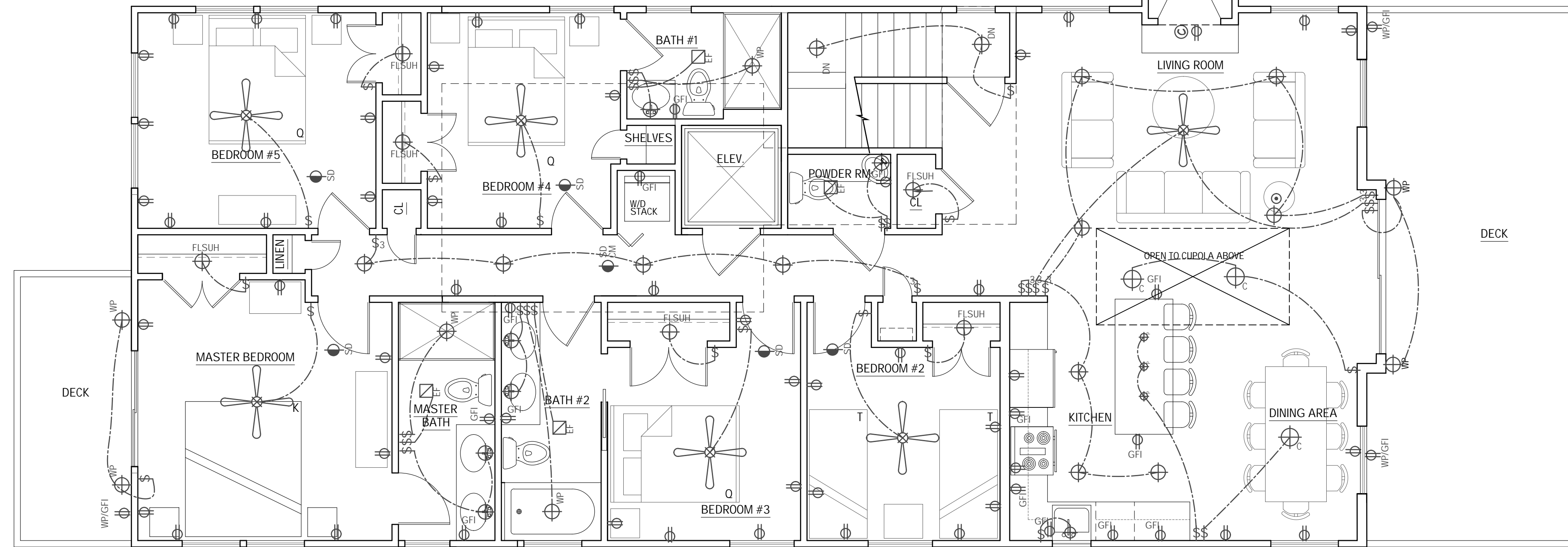
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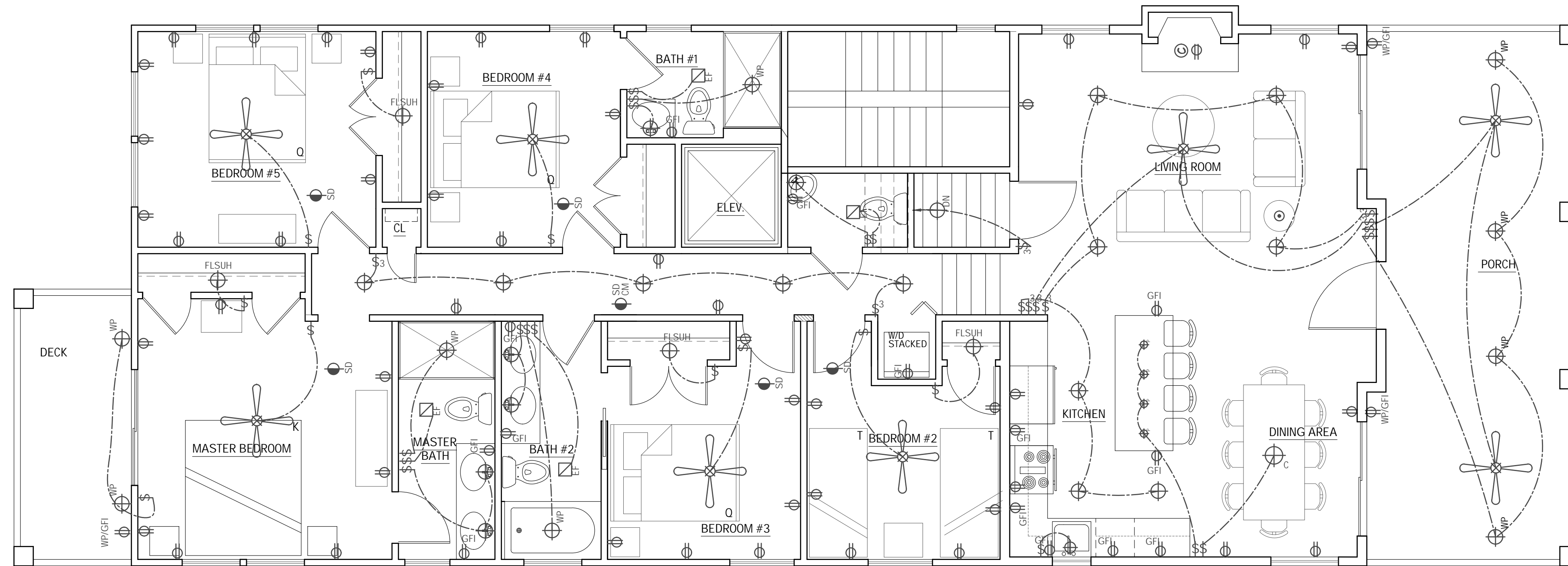
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**SECOND FLOOR PLAN**

NOTE:  
 - ALL CEILING FANS TO HAVE LIGHTS.  
 - SD'S MUST BE LOCATED MIN OF 36" AWAY FROM TIPS OF FAN BLADES.  
 BATHROOM DOORS W/ TUB / SHOWER, 4 HVAC SUPPLY OUTLETS, TYP.  
 - CARBON MONOXIDE ALARMS / DETECTORS, WHERE REQUIRED, SHALL BE INSTALLED NO MORE THAN 10'-0" FROM ALL SLEEPING ROOMS

1740 SF



**FIRST FLOOR PLAN**

NOTE:  
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 BATHROOM DOORS W/ TUB / SHOWER, 4 HVAC SUPPLY OUTLETS, TYP.  
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1,694 SF

ELECTRICAL LEGEND			
⊞	ELECTRIC FAN	⊕	GFI OUTLET
⊙	CABLE	⊕	WATERPROOF GFI OUTLET
⊙	SMOKE DETECTOR	⊕	LIGHT
⊙	SMOKE DETECTOR & CARBON MONOXIDE	⊕	PENDANT LIGHT
⊙	ELECTRIC SWITCH	⊕	WATERPROOF LIGHT
⊙	OUTLET	⊕	CHANDELIER
⊙	FLOOR OUTLET	⊕	FAN WITH LIGHT

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1ST & 2ND FLOOR  
 ELECTRICAL PLANS

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Dwg. No: A-7



General Notes and Specifications  
All construction shall conform to the current Uniform Construction Code 2018 International Residential Code New Jersey Edition, 2008 International Plumbing Code, 2018 International Mechanical Code, 2017 NEC, IBC for One and Two Family Dwellings, Local Ordinances and FEMA Flood Regulations.

Drawings and Design are the property of the architect and shall not be reproduced without expressed written consent of the architect.  
Contractor shall check all dimensions and verify all existing conditions before proceeding with the work. The contractor is responsible to immediately upon discovery report to the Architect any omissions, inadvertent exclusions and inconsistencies within these documents. The Architect shall be notified, immediately of any changes to the plans as specified. Any deviations from these plans as specified is strictly prohibited and must be coordinated through the Architect. DO NOT SCALE DRAWINGS.

Shop Drawing Submittal  
The contractor is required to submit to the Architect, for approval all shop drawings related to the design. Fabrication and installation of any material and equipment prior to the approval of shop drawings not permitted.  
Dimensions  
All dimensions are to be confirmed by the builder prior to commencing work. Any deviations or discrepancies are to be reported to the architect before proceeding. The builder's attention is specifically addressed to the height limitation established by the drawing.  
Windows and Door Sizing  
(a) Type and Manufacture - Vitruvo S-Series or equal  
(b) All exterior windows shall be complete with insulating glass and insect screens.  
(c) At least one window shall exceed 5'1" net at gross area per code with minimum height of 44" above finished floor, net clear height opening of 24" and net clear width opening of 20". All gross window net shall maintain a minimum 24" height to the sill from the interior finish floor for all windows that exceed a height of 84" from the window sill to the exterior grade or deck below.

Doors  
(a) All exterior doors shall be finished top and bottom, caulked, and weather-stripped and emit thresholds provided.  
(b) All interior doors to be 1' undercut.  
(c) Safety glass shall be used in all doors as required in the 2018 IRC section 308.4 and as noted on drawings.  
(d) All doors between garage and dwelling shall be 3/4 hour minimum.  
(e) All doors shall have a max. 1/2" high threshold from finish floor.  
(f) All garage doors must withstand 50 psf up loads

Fishing  
Fishing provided 3/8 gal. Economy stainless steel ( s ) fishing over all windows and doors in exterior walls. Provide 3/8 gal as per flashing at threshold doors. Provide 3/8 gal as fishing at ridges, valleys, and drip edges of roof. Provide termite shield on top of all foundation walls. Provide wall flashing base, cap, thru-wall and counter flashing, etc., as required to prevent entrance of moisture and water. Provide caulking at head, jamb and sills. Caulk all vertical and horizontal joints at unit openings and penetrations, joints, etc.  
Star Railings  
Railings shall be constructed so that a 4" diameter ball cannot pass through.  
Guard rails shall be capable of resisting a concentrated load of 200 lbs/ft along the top railing and a uniform load of 50 pif. Intermediate rails shall be capable of a horizontal concentrated load of 100 lbs.

Stairs  
(a) All risers shall be 8 1/4" max.  
(b) All treads shall be 9" min.  
(c) The width of stairs shall be 36"  
(d) Landing depth shall be min. 36"  
(e) Min. head room clearance 6' - 8"  
(f) Guard rails shall be 36" high min.  
(g) Handrails shall be 1 1/2" diameter to 2" diameter max. and shall be mounted 34" to 38" above tread nosing.  
(h) All exterior stair landing shall be pressure treated.  
(i) All risers shall be closed.

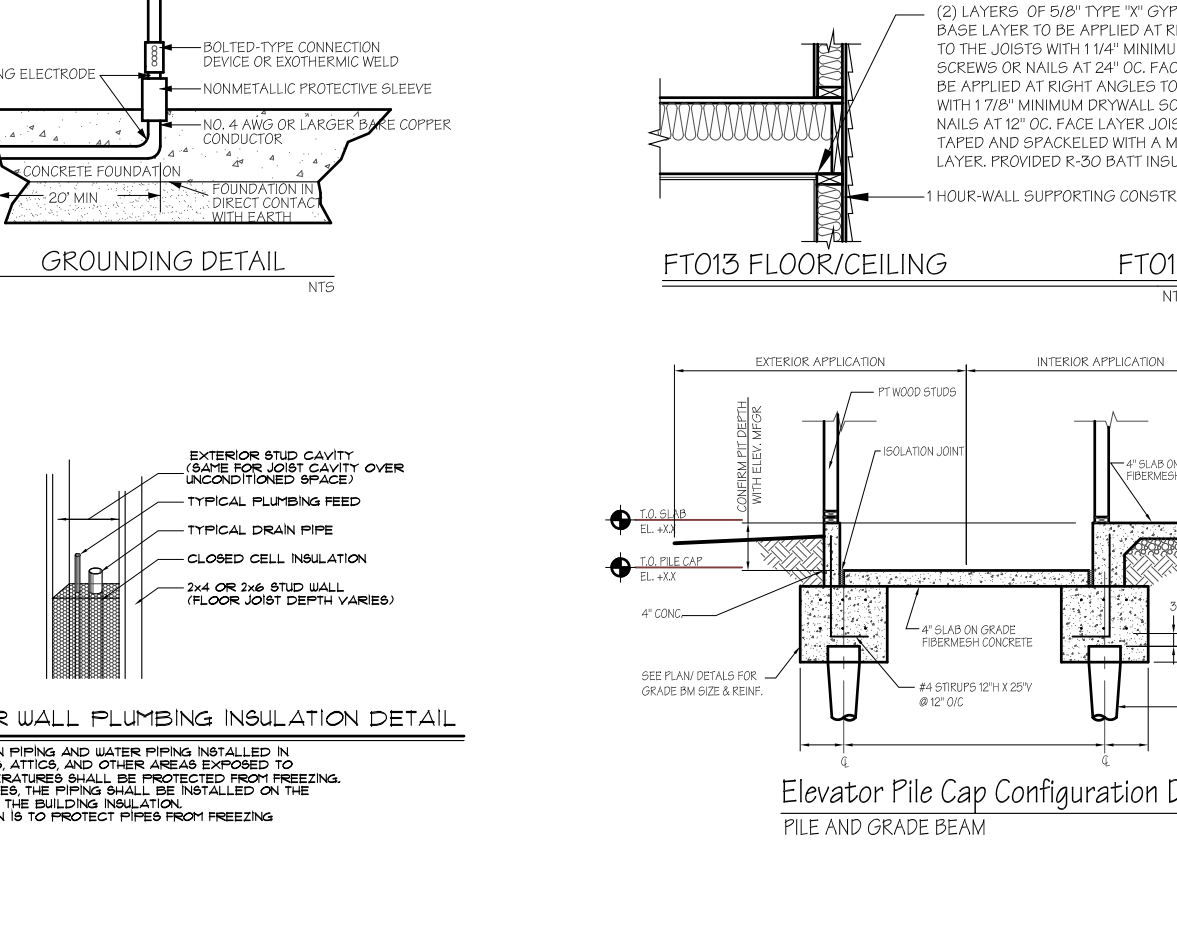
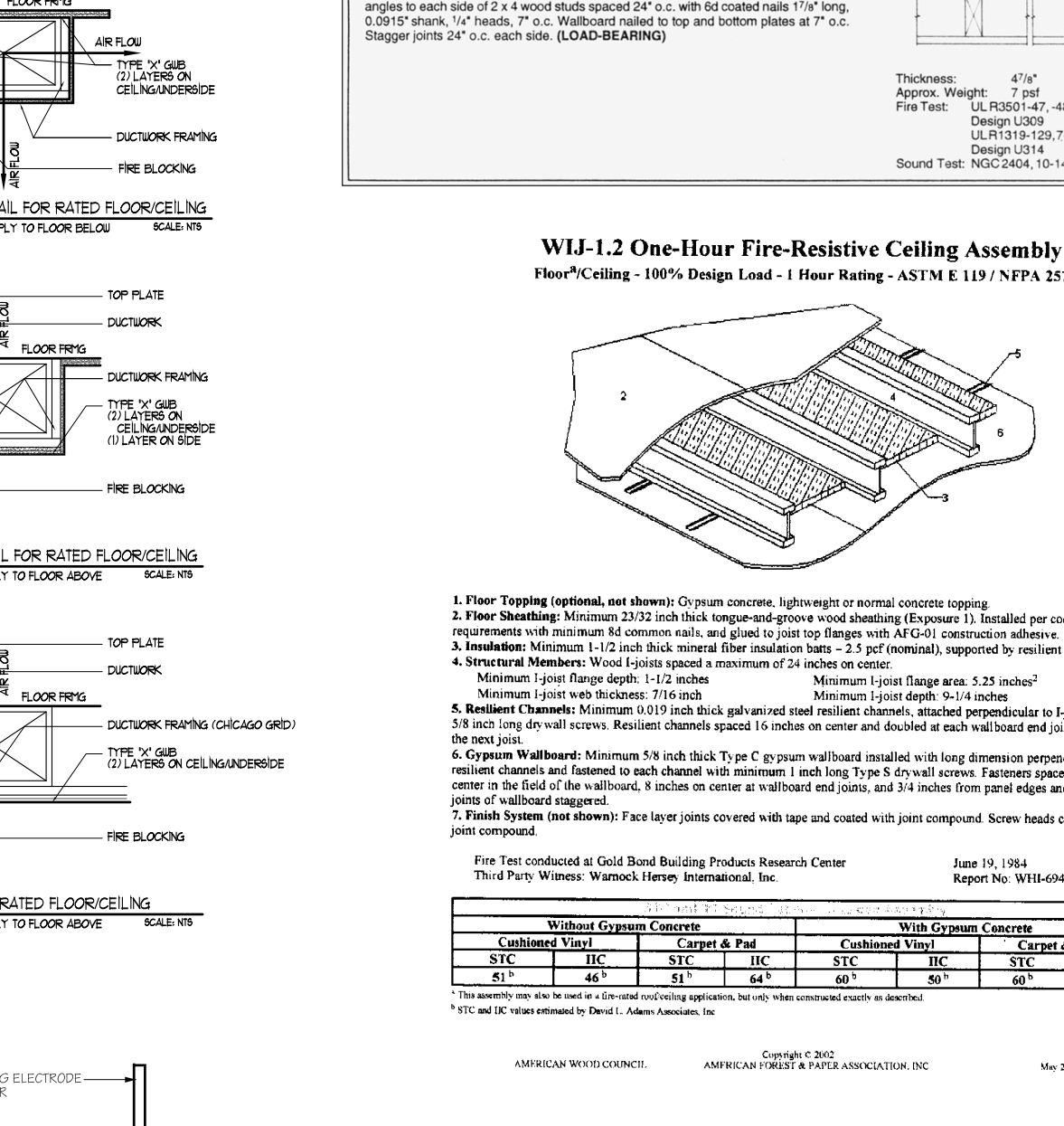
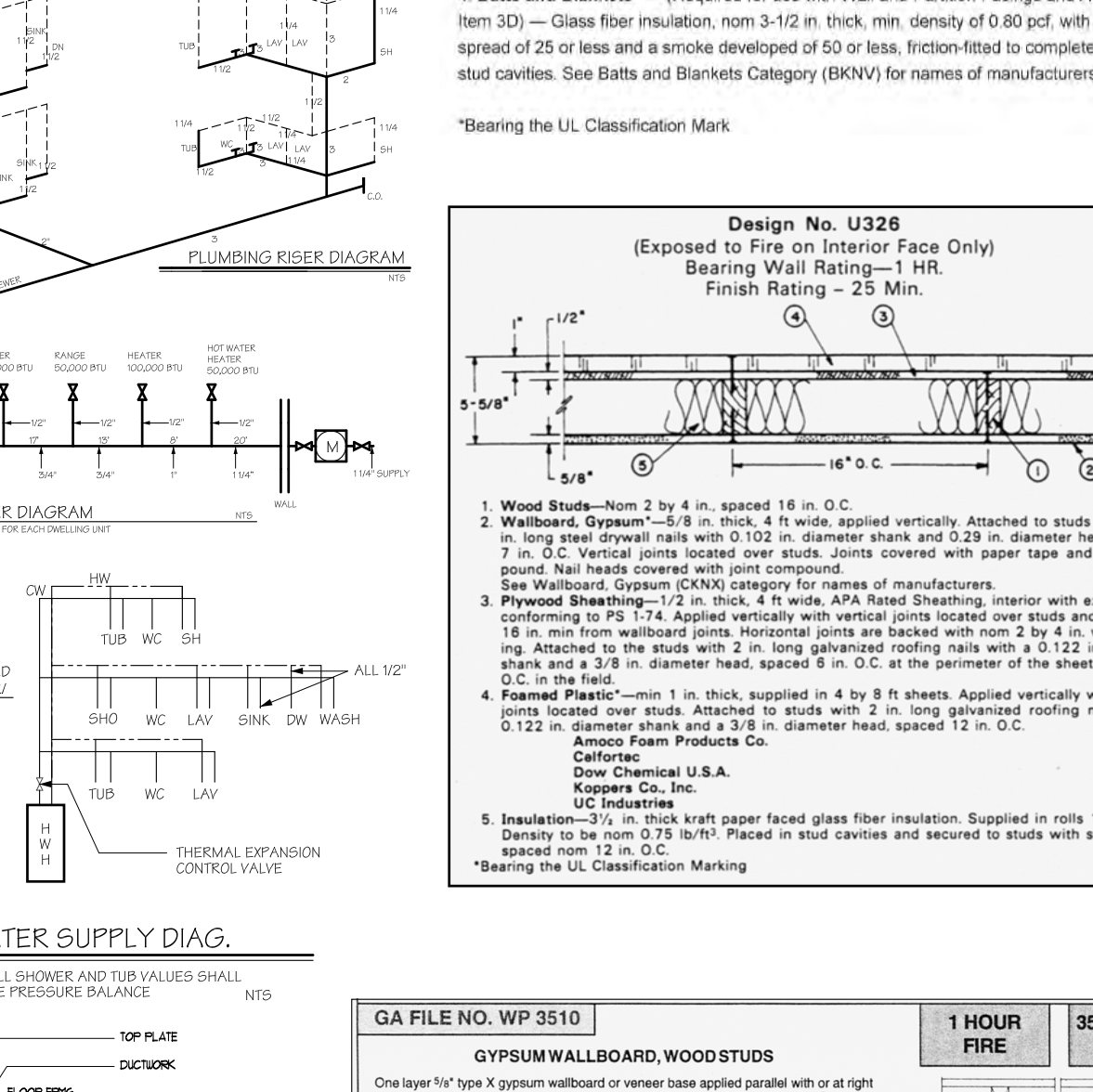
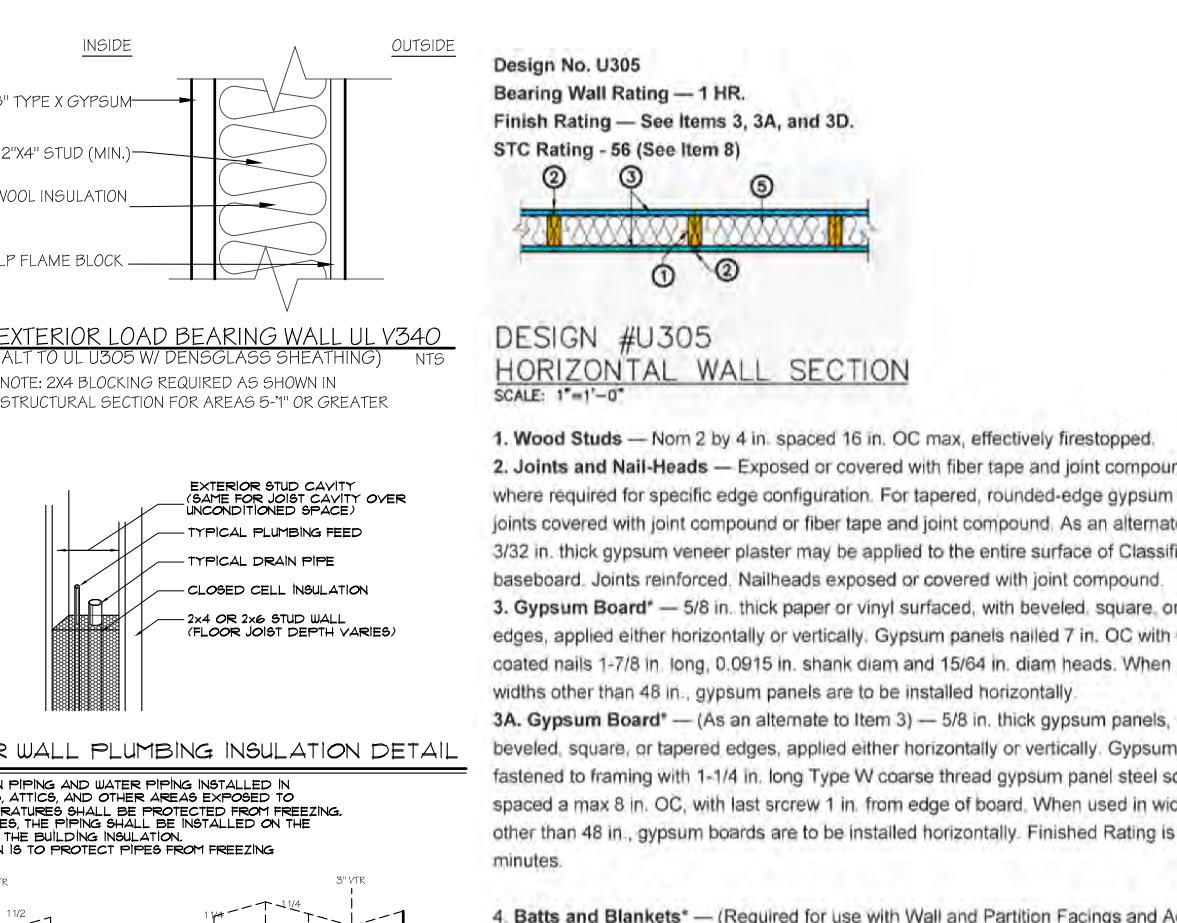
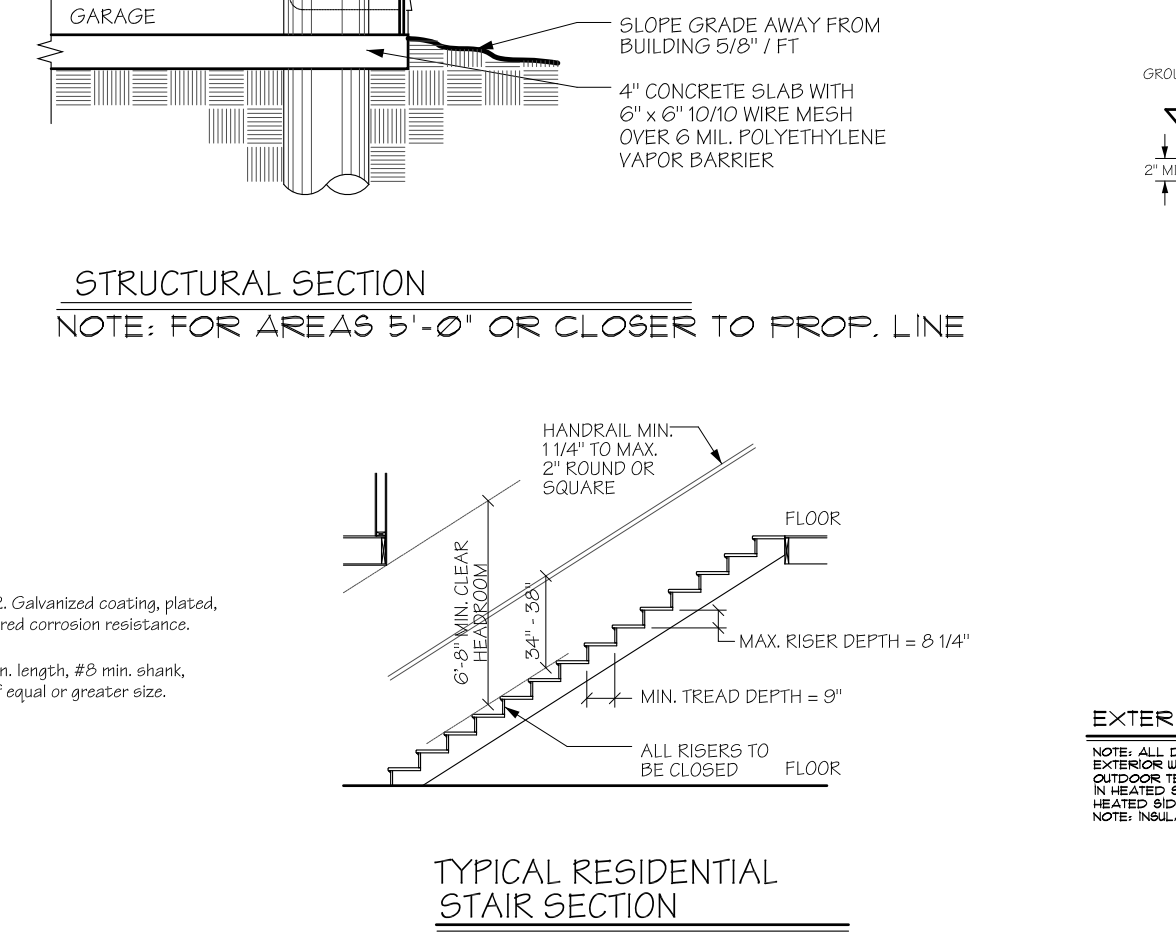
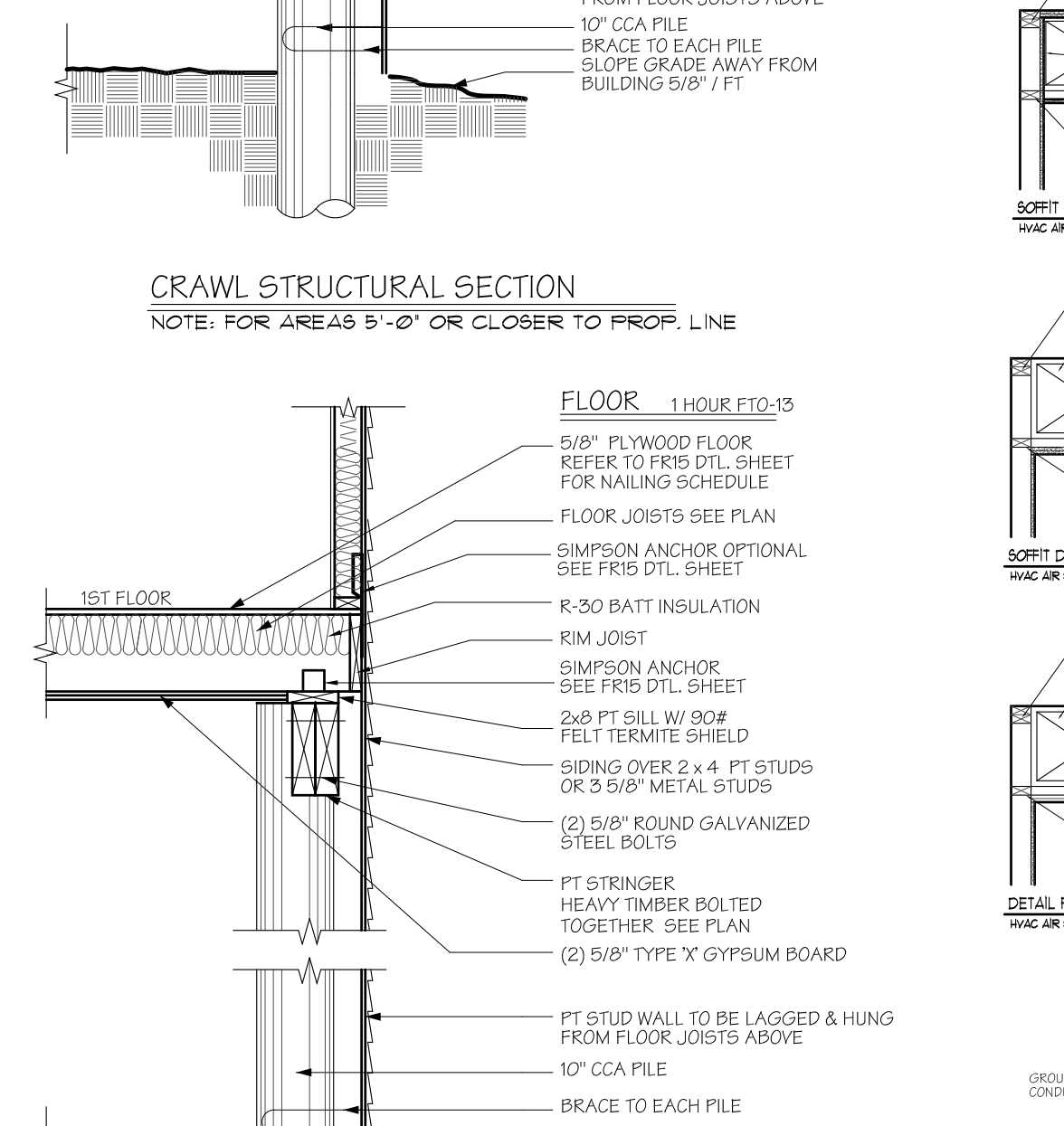
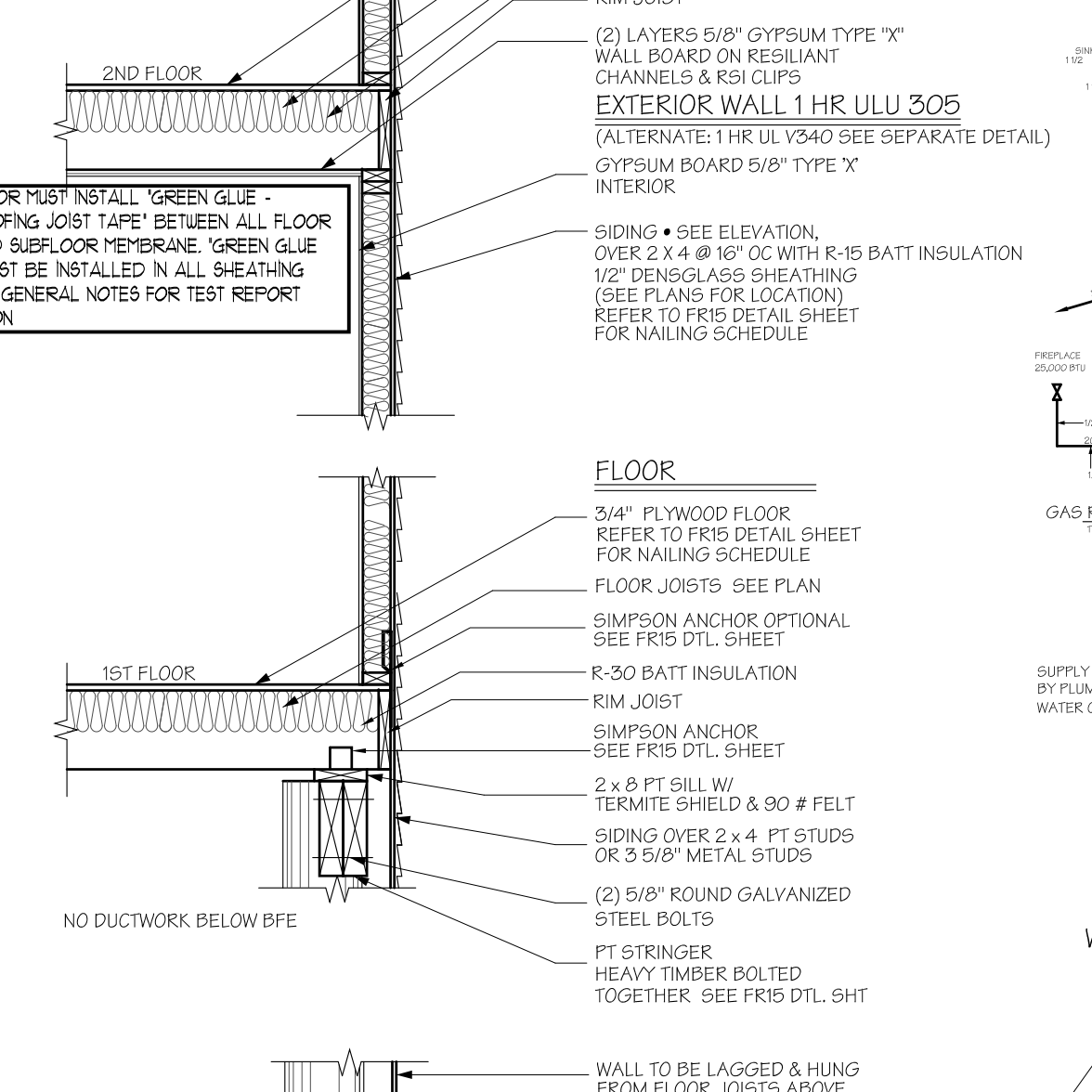
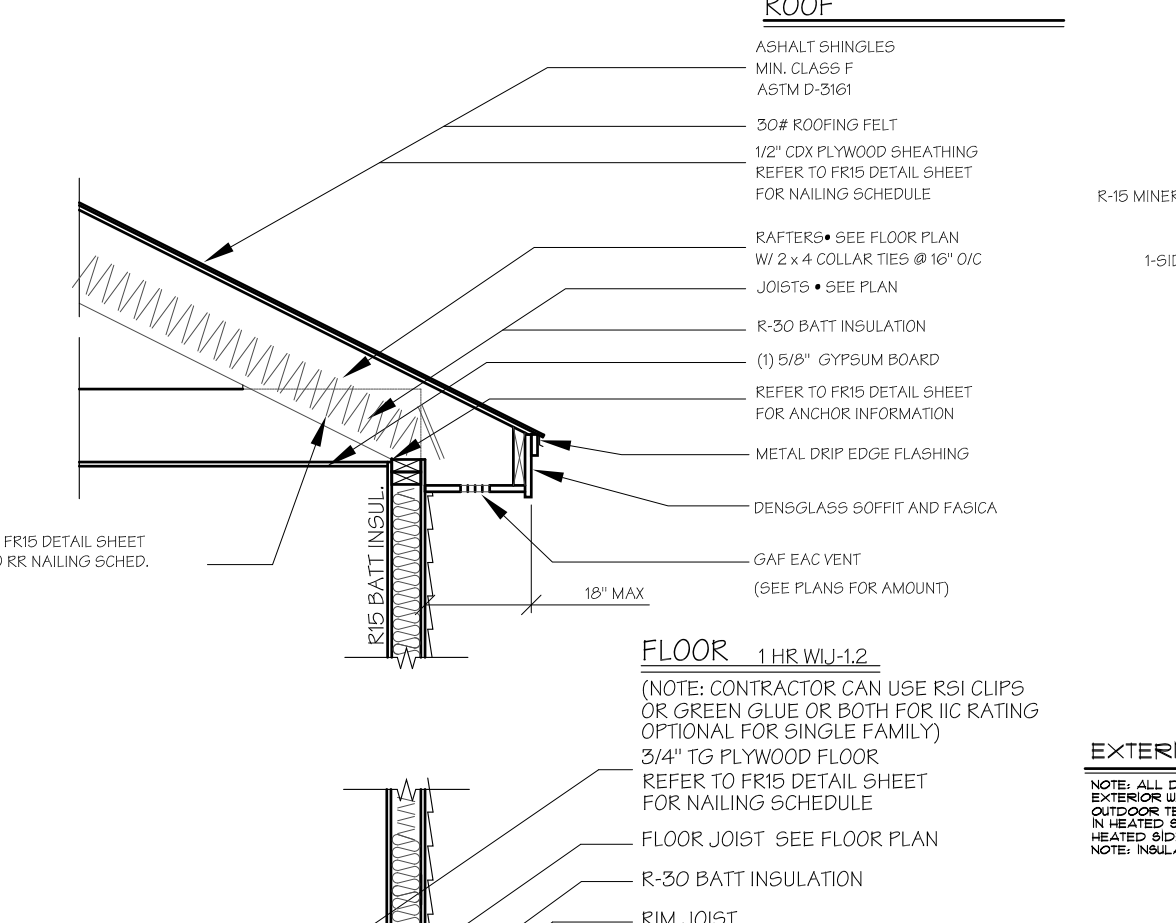
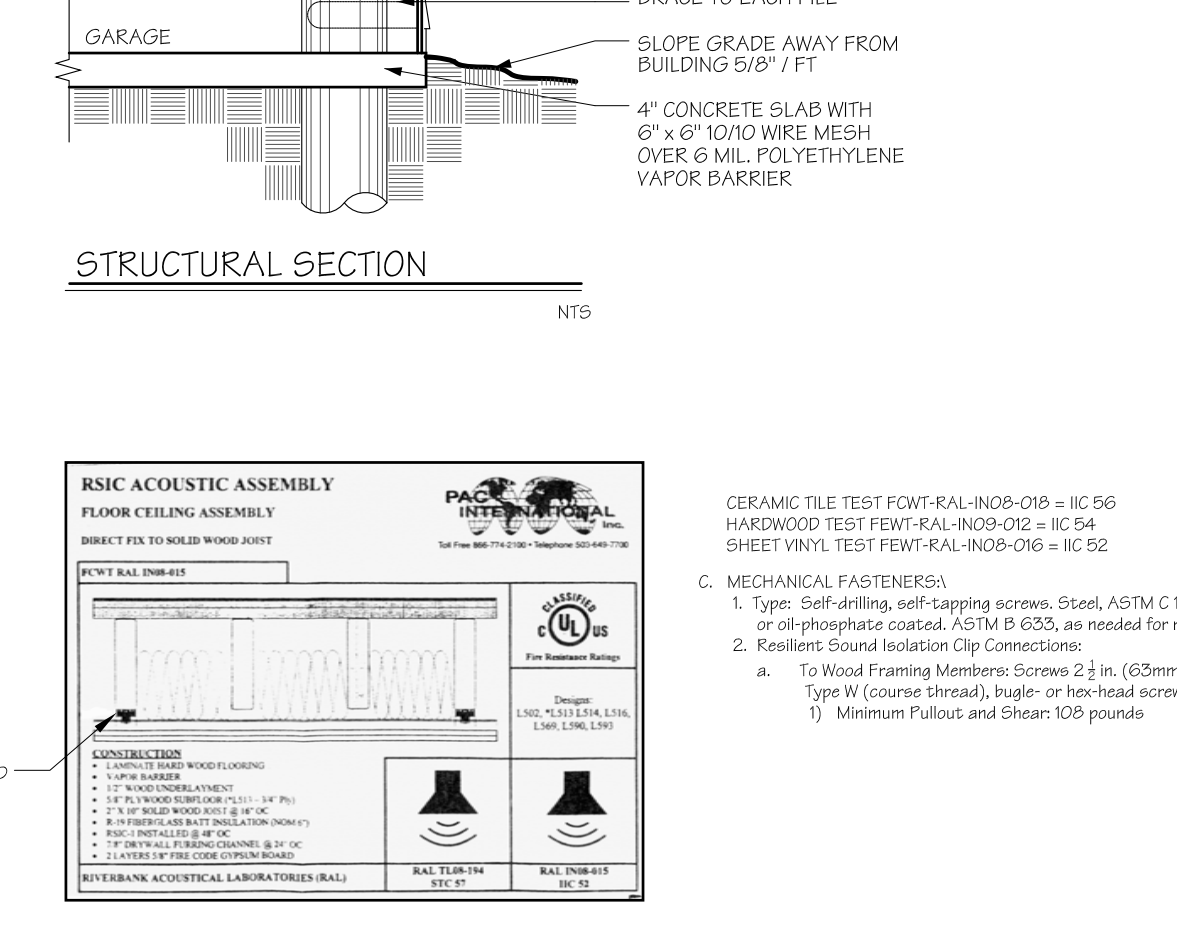
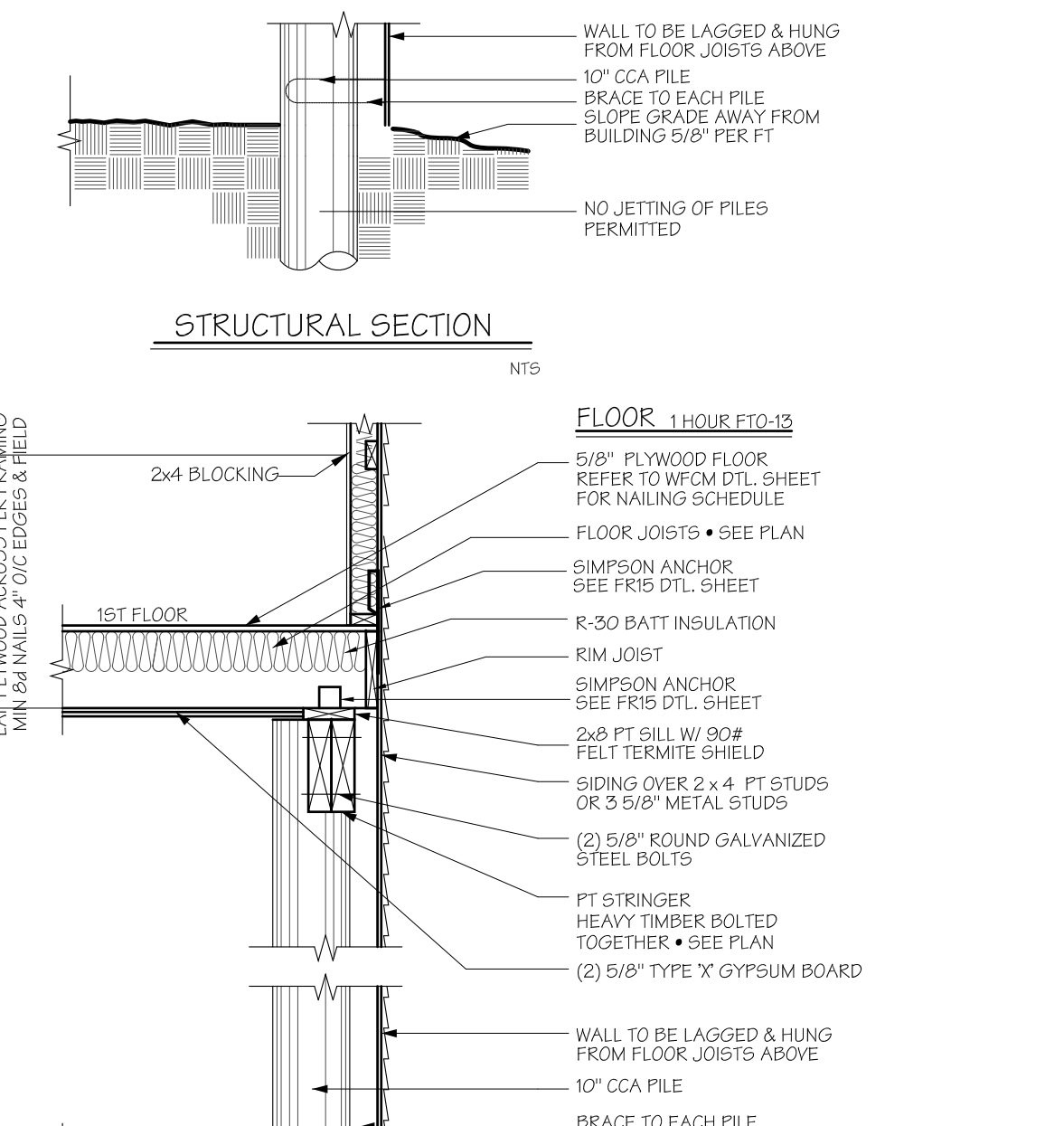
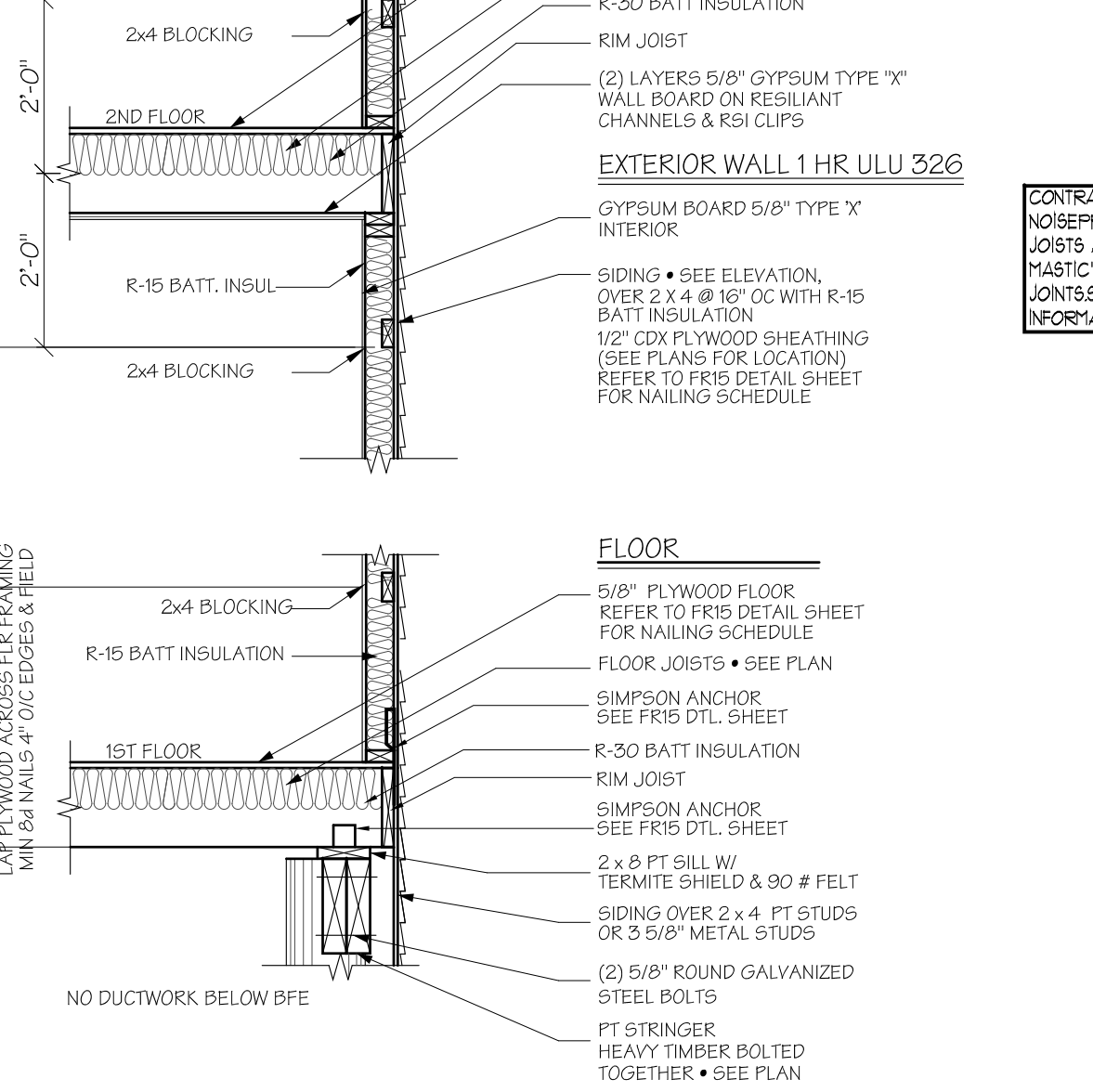
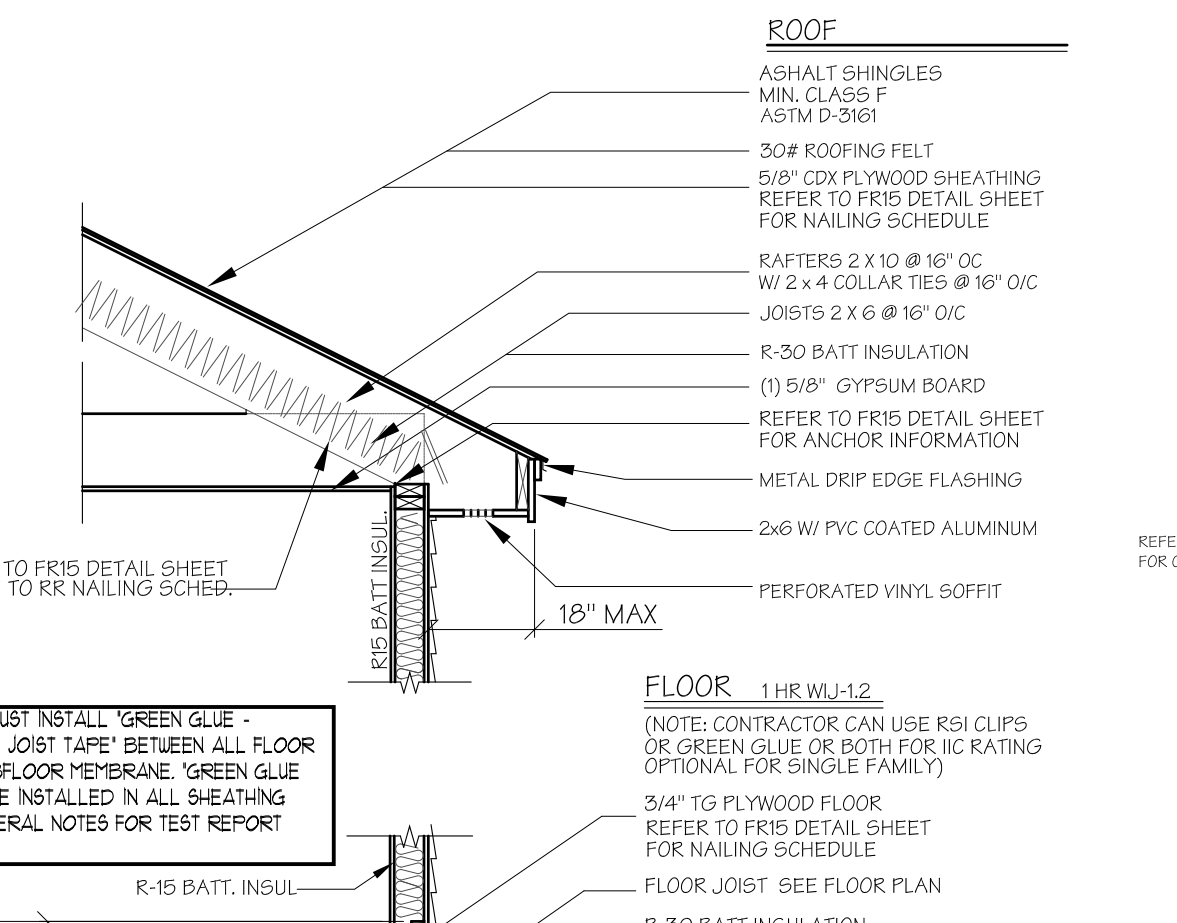
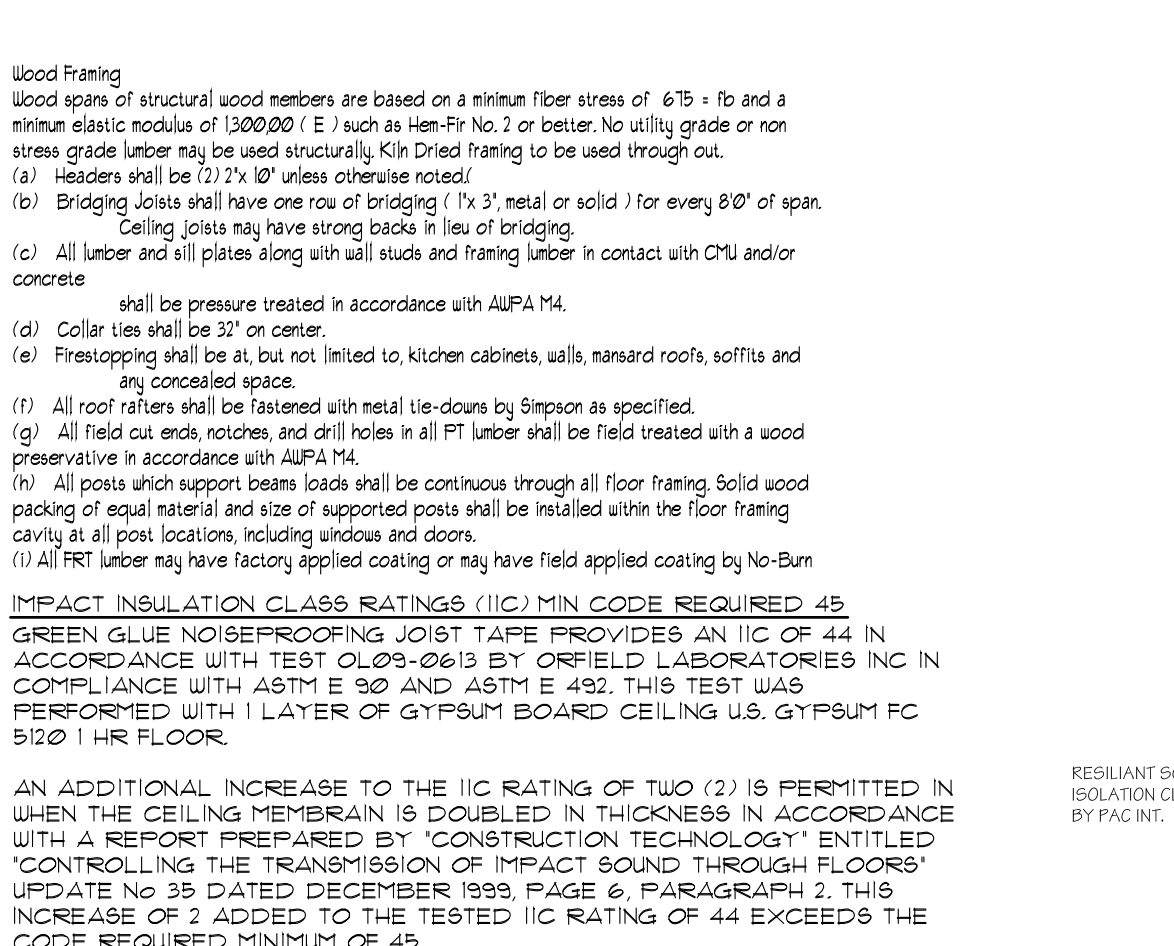
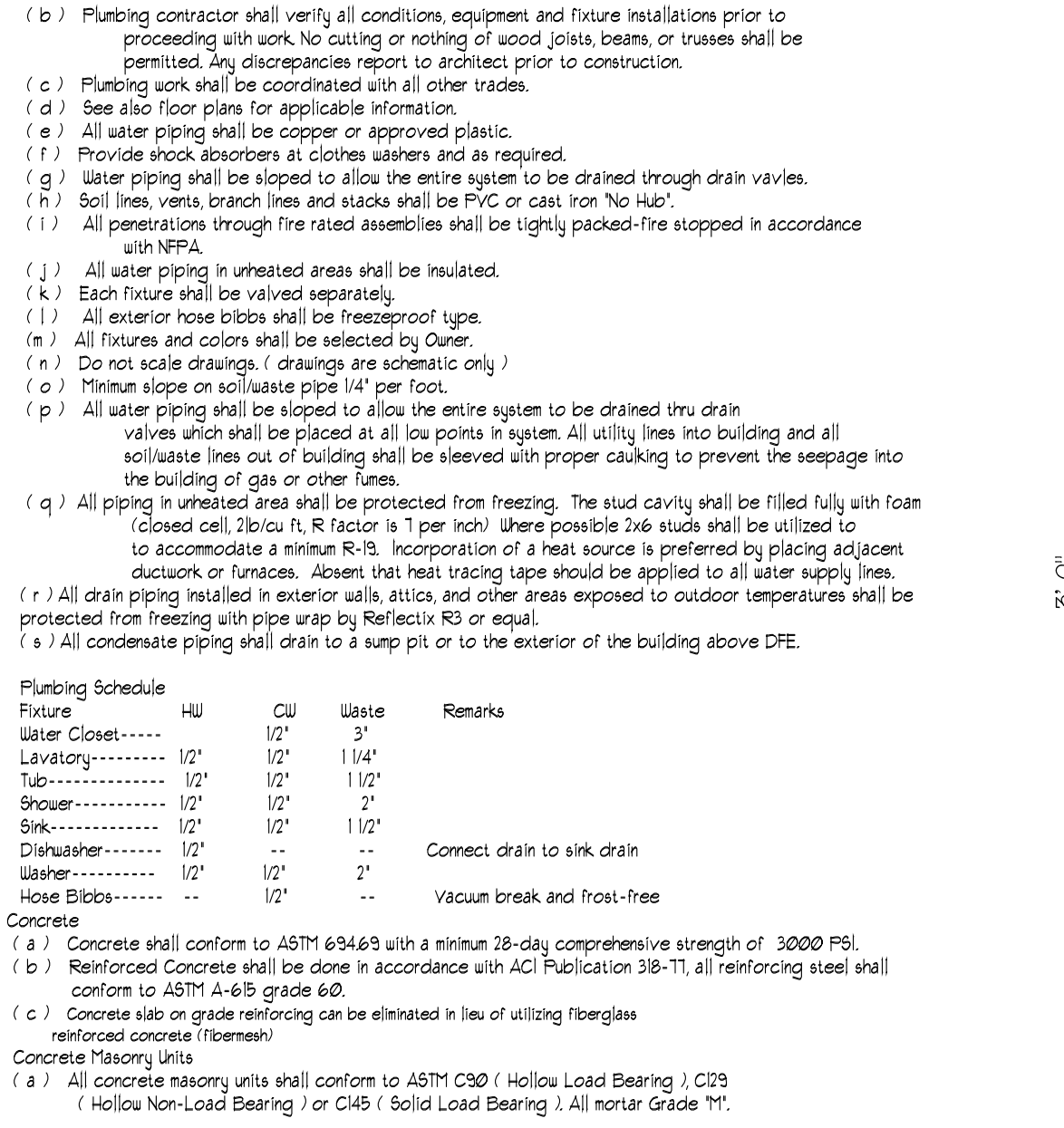
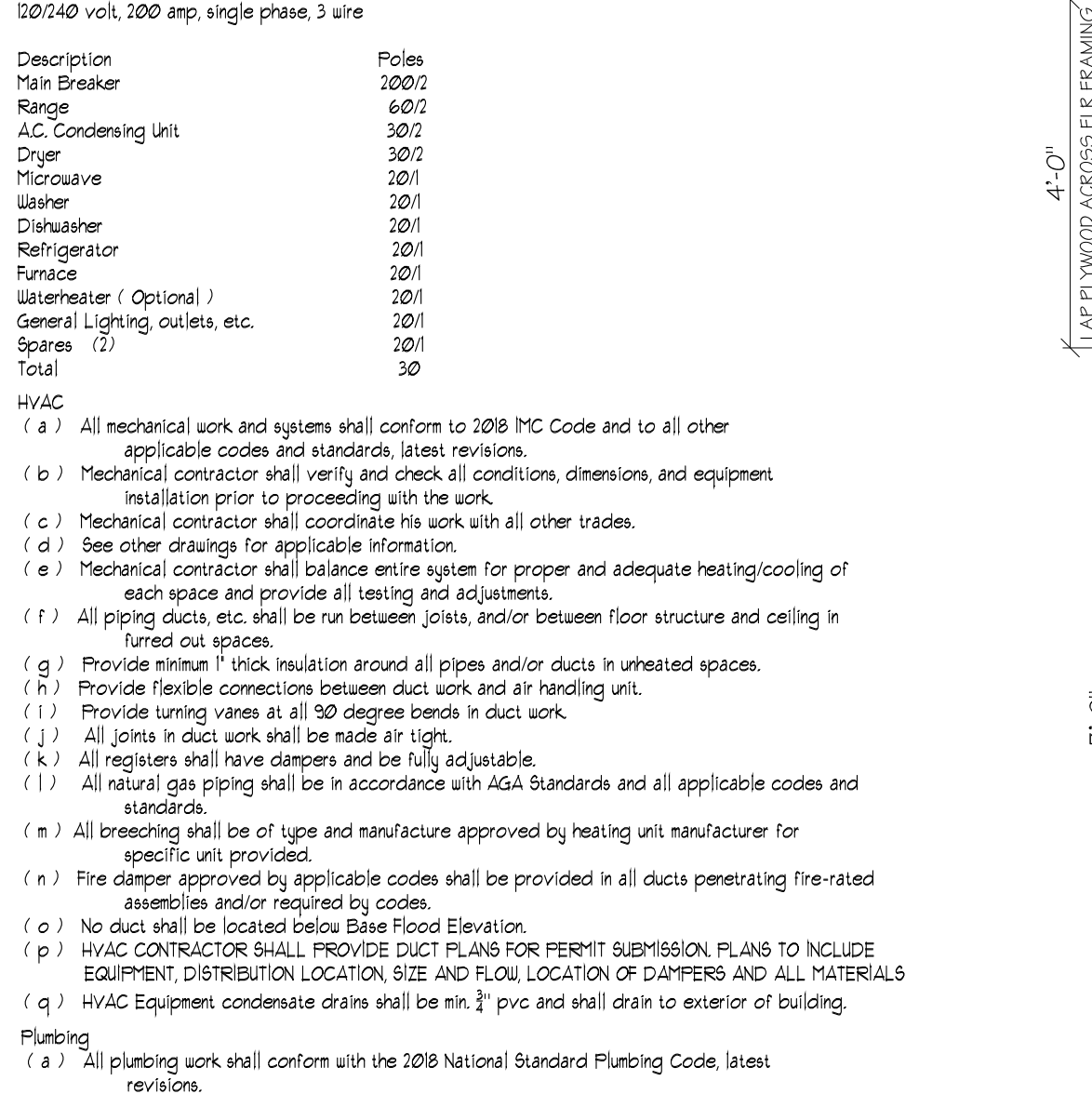
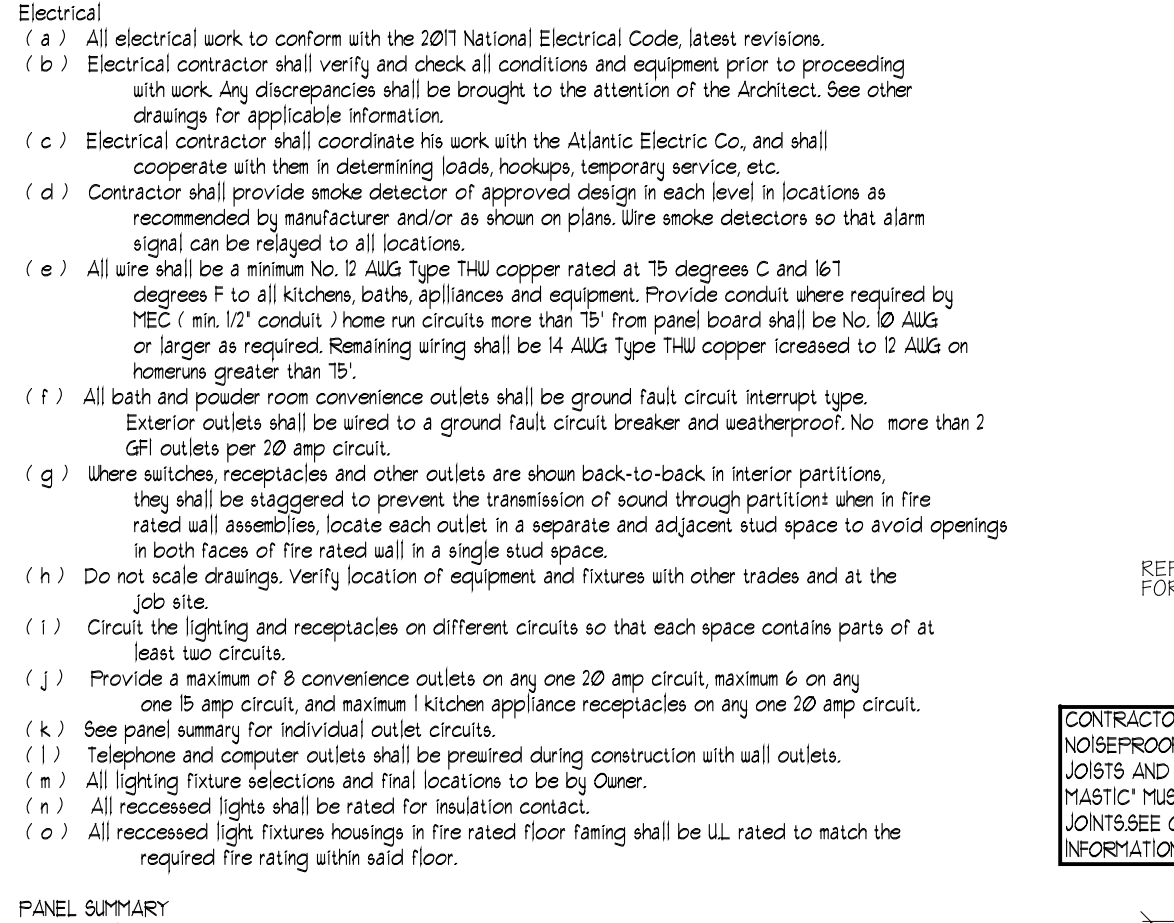
Closets  
Closets closets shall have one shelf and pole ( closets over 4'0" shall have shelf support ). All linen closets shall have a minimum of 5 shelves.  
Fireplaces  
Fireplace hearth shall be constructed of noncombustible material and shall extend 18" in front and 8" on sides of openings less than 6 ft and 20" in front and 12" on sides for openings 6 ft or larger.  
Gypsum Wallboard  
(a) Minimum 1/2" thickness  
(b) All gypsum wallboard in bathrooms and wet areas shall be water-resistant type.  
(c) Wall finishes Below BFE: Exterior wall finish shall be stucco. Interior fire rated walls shall be Dur-O-Rock. Interior non-fire rated walls may be plaster, under board, or dur-o-rock.

Material Below Base Flood Elevation  
Exterior wall finishes shall be stucco. Interior fire rated walls shall be Dur-O-Rock or Hardiplank. Interior non-rated fire rated walls shall be plaster, under board, Dur-O-Rock or Hardiplank up to 12" above BFE. Framing below BFE shall be PT. Insulation below BFE shall be rigid polyisocyanurate type insulation.  
Access  
(a) Provide 12" x 30" minimum access to attic.  
(b) Provide crawl space access to all exterior doors. Provide 3/8 gal as fishing at ridges, valleys, and drip edges of roof.  
(c) Provide access to plumbing fixture control valves.  
Vents  
(a) Attic and soffits vents shall be screened.  
(b) Flood vents shall be 8" x 6" Smart Vents as per NIACTB-115A/B  
(c) All sills to Crawl Space vents must be mounted maximum 6" above adjacent grade.  
(d) All ridges shall be equipped with continuous ridge vents.  
Air Leakage  
(a) Building must meet air leakage requirements of 2018 IECC  
Anchors  
(a) Sill straps are not allowed in flood zone.  
(b) Anchor bolts galv. max. be 5/8" diameter, 18" long 1" from all corners and end cuts of all plates, then at 7'-8" on center. Each sill plate shall have a minimum 2 anchors per board. All Anchor Bolts must have 3" galvanized washers.  
(c) Sheathing to lap for box horizontal and shall extend equivalent to all Anchor bolts to all walls.  
(d) On barrier islands, use specified hurricane clips and anchors to hold down floor joists and roof rafters at all levels. Simpson G85 (7x60) or equal for interior areas and stainless steel for All exterior applications. NO EXCEPTIONS.  
(e) All anchors that are in contact with any pressure treated wood shall be stainless steel. NO EXCEPTIONS.  
(f) All nails used in galvanized hardware must be galvanized and all all nails used in stainless steel hardware must be stainless steel. NO EXCEPTIONS.  
(g) All specified hangers, clips, ties, hold-downs, etc. are Simpson Strong-Tie brand. Before substituting anchor brand, confirm load capacities based on reliable published testing data or calculations. All substitutions from the specified hangers, clips, ties, hold-downs, etc. must be submitted the Architect for evaluation and written approval prior to installation.

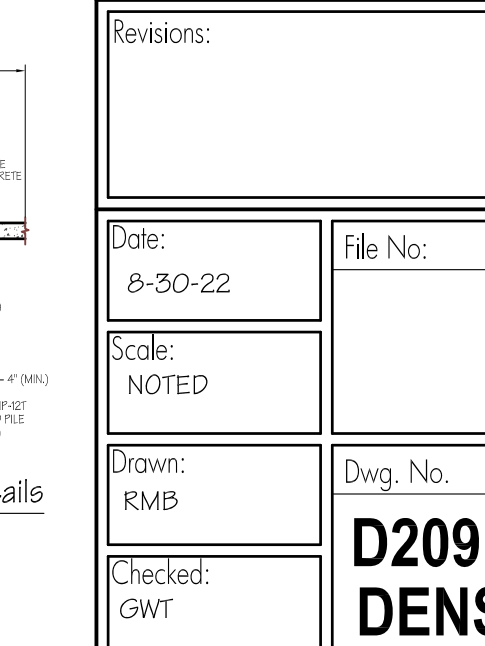
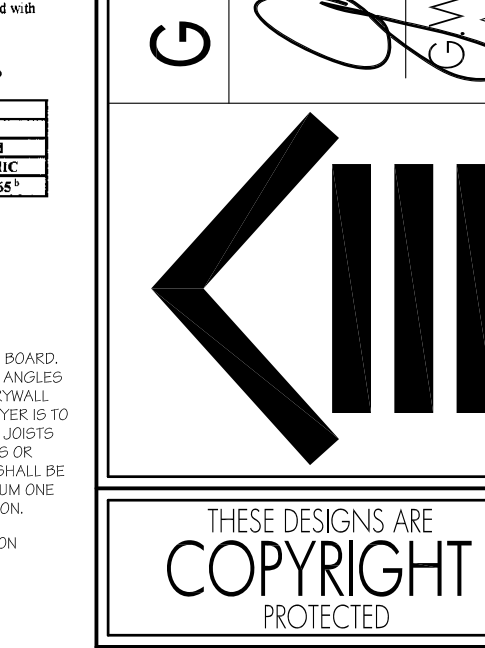
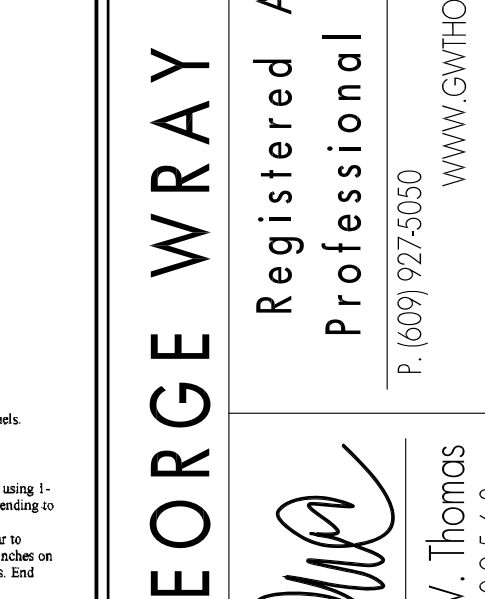
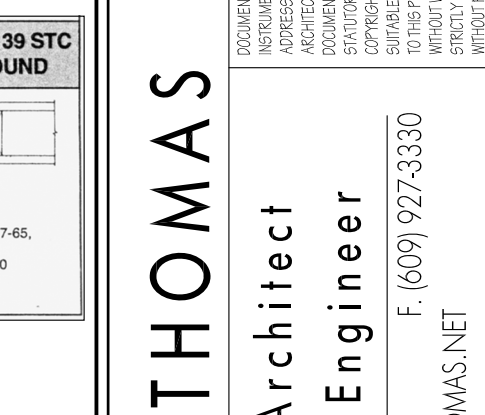
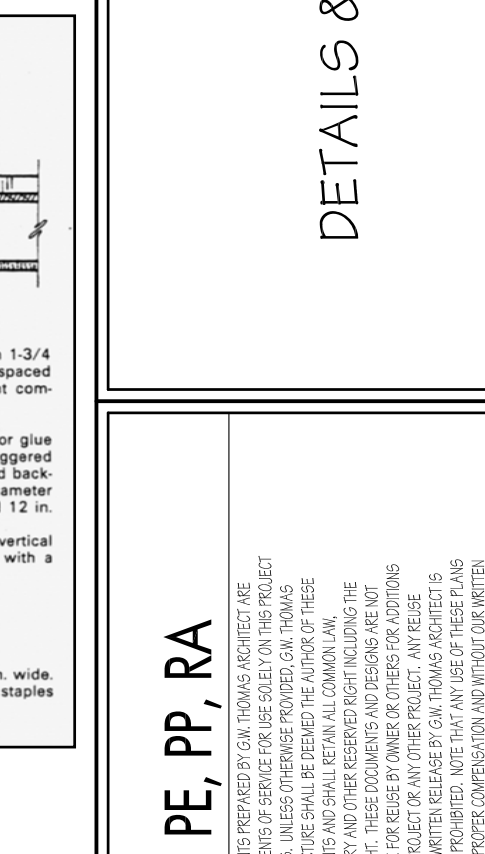
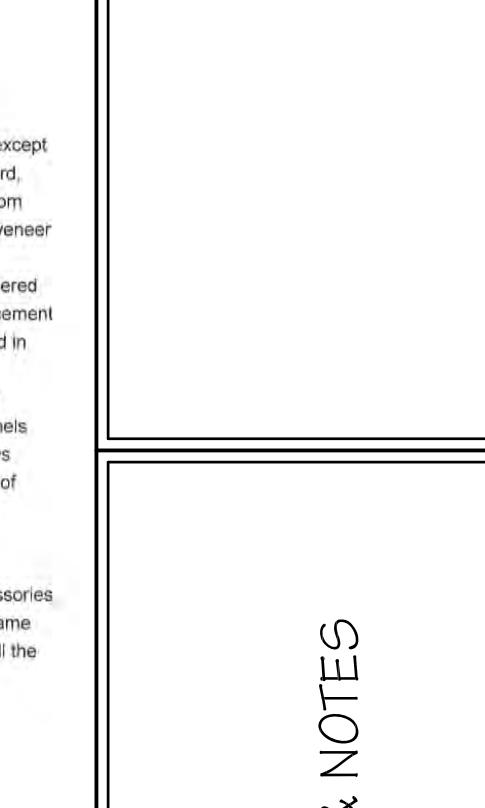
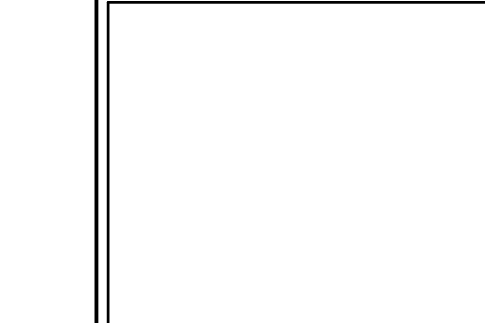
DESIGN LIVING LOADS  
Living Areas 40psf  
Sleeping Areas 30psf tread  
Attic Storage 20psf  
Deck Area Same as floor served  
Balcony Area Same as floor served  
Wind Load 125 MPH Ultimate Load / 91 MPH Design Load  
The contractor shall perform work in a safe and non-hazardous manner. Shoring and structural supports shall be secured in place prior to any demolition of walls.  
Contractor is responsible to keep site and structure free from miscellaneous debris and equipment and shall maintain the same to a clean, non hazardous, workable environment.  
DUELLING LINE RATED PENETRATIONS  
ALL PENETRATIONS THROUGH A FIRE RATED WALL OR FLOOR ASSEMBLY SHALL BE PROTECTED. PROTECTIONS SHALL BE WITH A DEVICE OR METHOD STOPPING WHICH HAS A MINIMUM FIRE RESISTANCE RATING WHICH IS EQUAL TO THE FIRE RATED WALL OR FLOOR ASSEMBLY BEING PENETRATED.  
Tiebar Pile Foundation  
(a) Tying piles shall be of Southern Yellow Pine and shall comply with the requirements of the standard specifications for round lumber piles, AWP-A U 1. Minimum allowable bending strength Fb = 2,400 PSI  
(b) Two test piles shall be driven at opposite ends of the structure to determine final length of piles. All piles shall be natural upper shall be full length and uncoupled and shall have a minimum cut diameter of 10" (315" measured 36" from the end of the butt).  
(c) Piles shall be CCA 0.8 PCF pressure treated as per ASTM for Category UC4C. The tops of all cut-off piles shall be field treated with a PT preservative.  
(d) Piles shall be driven through all fills and organic layers until the design bearing capacity is reached as determined by the Davidson 4 Torsion Formula. Min. depth 10' Below MSL.  
(e) All piles shall be installed plumb and in their design location.  
(f) If any pile is installed out of plumb more than 2 percent of the pile length the pile shall be rejected unless the design of the foundation can be modified to adequately resist the resulting lateral forces as determined by the Engineer.  
(g) A tolerance of 3 inches from the designated location is permitted in the installation of individual piles.  
(h) Should any pile be damaged during driving or be driven outside its specified location for position or stated herein, otherwise not conform to requirements, it shall be abandoned and additional pile or piles shall be furnished and installed in locations designated by the Architect as no additional cost to the Owner.  
(i) The contractor shall establish and locate all lines and levels and shall be responsible for the correct location and accuracy of all piles.  
(j) All hardware to be hot-dipped galvanized.  
(k) All bolts in piling stringer connections, after tightening bolts over washers, to be passed with a chisel in a manner not to allow removal or loosening of nuts.  
(l) All piles should be driven to T to capacity unless otherwise noted.  
(m) Architect/Engineer or research office or representative is required to inspect the installation of all piles and shall be present during the installation of all piles. All pile logs shall be provided to the Architect/Engineer of records office within 5 days of completion of driving piles.  
(n) The pile contractor is responsible for protecting structures in the area from vibrations caused by the driving of all piles

WOOD FRAMING  
Wood spans of structural wood members are based on a minimum fiber stress of 675 + Fb and a minimum elastic modulus of 1,000,000 + E, such as Item No. 1 or better. No utility grade or non stress grade lumber may be used structurally. KD Dried framing to be used through-out.  
(a) Headers shall be 7/2" x 10" unless otherwise noted.  
(b) Bridging joists shall have one row of bridging ( 1 x 3" , nail or solid ) for every 8'0" of span.  
(c) Ceiling joists may have strong back in lieu of bridging.  
(d) All lumber and sill plates along with wall studs and framing labor in contact with CHU and/or concrete shall be pressure treated in accordance with AWP-A 14.  
(e) Collar tie studs shall be 3" on center.  
(f) Frostproof shall be at, but not limited to, kitchen cabinets, walls, nared roof, soffits and any concealed spaces.  
(g) All roof rafters shall be fastened with metal tie-downs by Simpson as specified.  
(h) All field cut ends, noiches, and nail holes in all PT lumber shall be field treated with a wood preservative in accordance with AWP-A 14.  
(i) All posts which support beam loads shall be continuous through all floor framing. Solid wood packing of equal material and size of supported posts shall be installed using the floor framing cavity at all post locations, including windows and doors.  
(j) All FTR lumber may have factory applied coating or may have field applied coating by No-Burn.  
IMPACT INSULATION CLASS RATING (IIC) MIN CODE REQUIRED 45  
GREEN GLUE NOISEPROOFING JOIST TAPE PROVIDES AN IIC OF 44 IN ACCORDANCE WITH TEST Q129-09/13 BY ORISFIELD TECHNOLOGIES INC IN COMPLIANCE WITH ASTM E 50 AND ASTM E 492. THIS TEST WAS PERFORMED WITH 1 LAYER OF GYPSUM BOARD CEILING U.S. GYPSUM PC 512 1 HR ULO.  
AN ADDITIONAL INCREASE TO THE IIC RATING OF TWO (2) IS PERMITTED IN WHEN THE CEILING MEMBRANE IS DOUBLED IN THICKNESS IN ACCORDANCE WITH A REPORT PREPARED BY "CONSTRUCTION TECHNOLOGIES INC" ENTITLED "CONTROLLING THE TRANSMISSION OF IMPACT SOUND THROUGH FLOORS" UPDATE NO 35 DATED DECEMBER 1999. PAGE 6, PARAGRAPH 2, THIS INCREASE OF 2 ADDED TO THE TESTED IIC RATING OF 44 EXCEEDS THE CODE REQUIRED MINIMUM OF 45.

Roof  
(a) All electrical work to conform with the 2017 National Electrical Code latest revisions.  
(b) Electrical contractor shall verify and check all conditions and equipment prior to proceeding with work. Any discrepancies shall be brought to the attention of the Architect. See other drawings for applicable information.  
(c) Electrical contractor shall coordinate his work with the Atlantic Electric Co. and shall cooperate with them in determining loads, hookups, temporary service, etc.  
(d) Contractor shall provide smoke detector of approved design in each level in locations as recommended by manufacturer and/or as shown on plans. If smoke detectors so that alarm signal can be relayed to all locations.  
(e) All wire shall be a minimum No. 12 AWG Type THW copper rated at 75 degrees C and 60 degrees F to all circuits, baths, appliances and equipment. Provide conduit where required by NEC in 1/2" conduit. Home run circuits more than 15' from panel board shall be No. 10 AWG or larger as required. Remaining wiring shall be 14 AWG Type THW copper (rated to 75 deg on terminus greater than 15').  
(f) All bath and powder room convenience outlets shall be ground fault circuit interrupt type. Exterior outlets shall be used to a ground fault circuit breaker and interstep. No more than 2 GFI outlets per 20 amp circuit.  
(g) Where switches, receptacles and other outlets are shown back-to-back in interior partitions, they shall be staggered to prevent the transmission of sound through partition when in fire rated wall assemblies, locate each outlet in a separate and adjacent stud space to avoid openings in both faces of fire rated wall in a single stud space.  
(h) Do not scale drawings; verify location of equipment and fixtures with other trades and at the job site.  
(i) Circuit the lighting and receptacles on different circuits so that each space contains parts of at least two circuits.  
(j) Provide a maximum of 8 convenience outlets on any one 20 amp circuit, maximum 6 on any one 15 amp circuit, and maximum 1 kitchen appliance receptacles on any one 20 amp circuit.  
(k) See panel scheduling for outlet circuits.  
(l) Telephone and computer outlets shall be pre-wired during construction with wall outlets.  
(m) All lighting fixture selections and final locations to be by Owner.  
(n) All required lights shall be located for insulation contact.  
(o) All recessed light fixtures housed in fire rated floor/ceiling shall be UL rated to match the required fire rating with said floor.  
PANEL SCHEDULE  
120/240 volt, 1200 amp, single phase, 3 wire  
Description Poles  
Main Breaker 2000  
Range 60/2  
AC Condensing Unit 30/2  
Dishwasher 20/1  
Refrigerator 20/1  
Furnace 20/1  
Watermeter ( Optional ) 20/1  
General Lighting outlets, etc. 20/1  
Spikes ( 2 ) 20/1  
Total 30  
Description Poles  
Main Breaker 2000  
Range 60/2  
AC Condensing Unit 30/2  
Dishwasher 20/1  
Refrigerator 20/1  
Furnace 20/1  
Watermeter ( Optional ) 20/1  
General Lighting outlets, etc. 20/1  
Spikes ( 2 ) 20/1  
Total 30



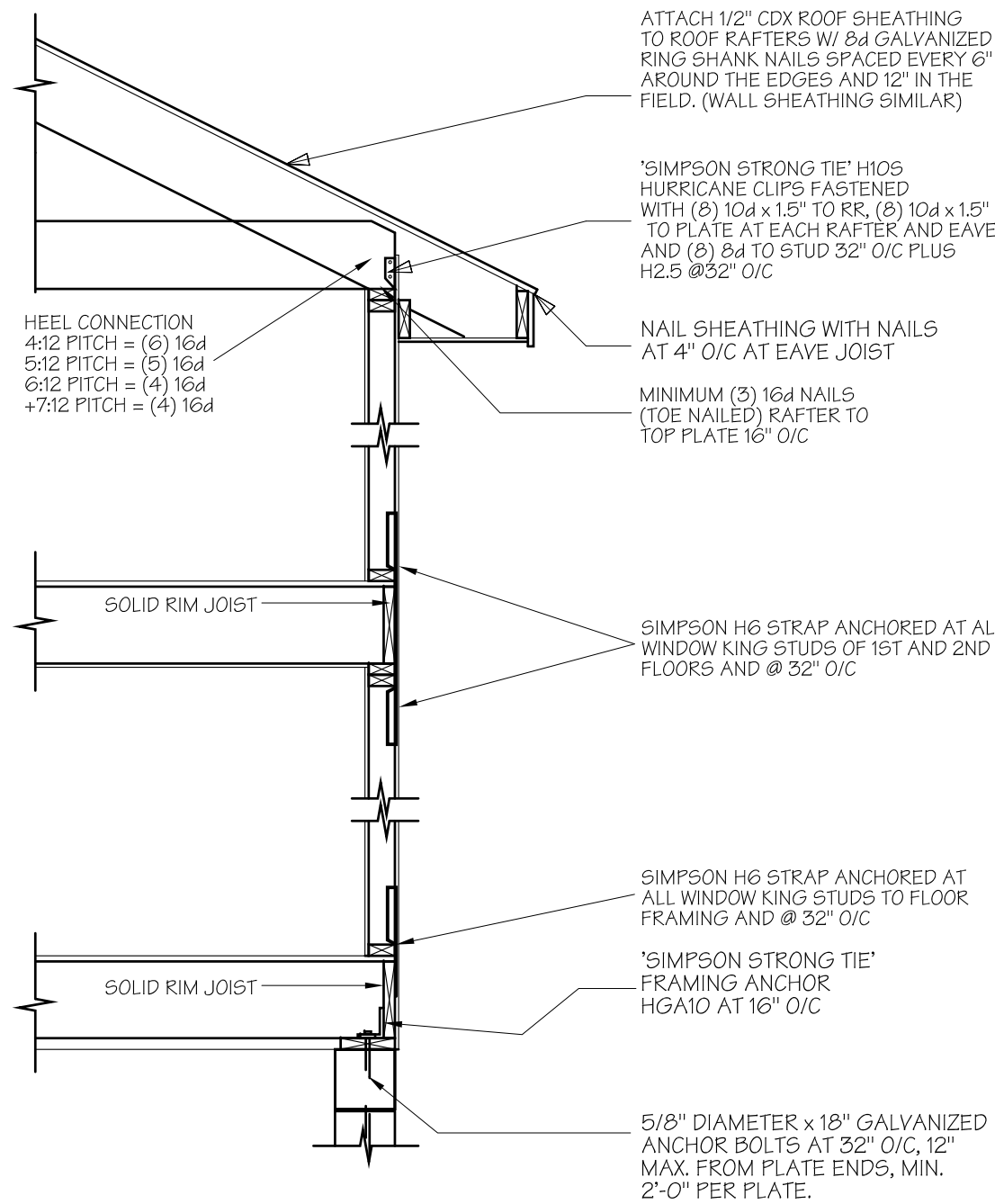
EXTERIOR WALL PLUMBING INSULATION DETAIL  
NOTE: ALL DRAIN PIPES AND WATER PIPING INSTALLED IN EXTERIOR WALLS SHALL BE PROTECTED FROM FREEZING IN THE WINTER. SEE GENERAL NOTES FOR TEST REPORT INFORMATION.  
PLUMBING RISER DIAGRAM  
GAS RISER DIAGRAM  
WATER SUPPLY DIAG.  
DETAIL FOR RATED FLOOR/CILING  
DETAIL FOR RATED FLOOR/CILING  
FT013 FLOOR/CEILING  
FT013 FLOOR/CEILING  
GROUNDING DETAIL  
ELEVATOR PILE CAP Configuration Details



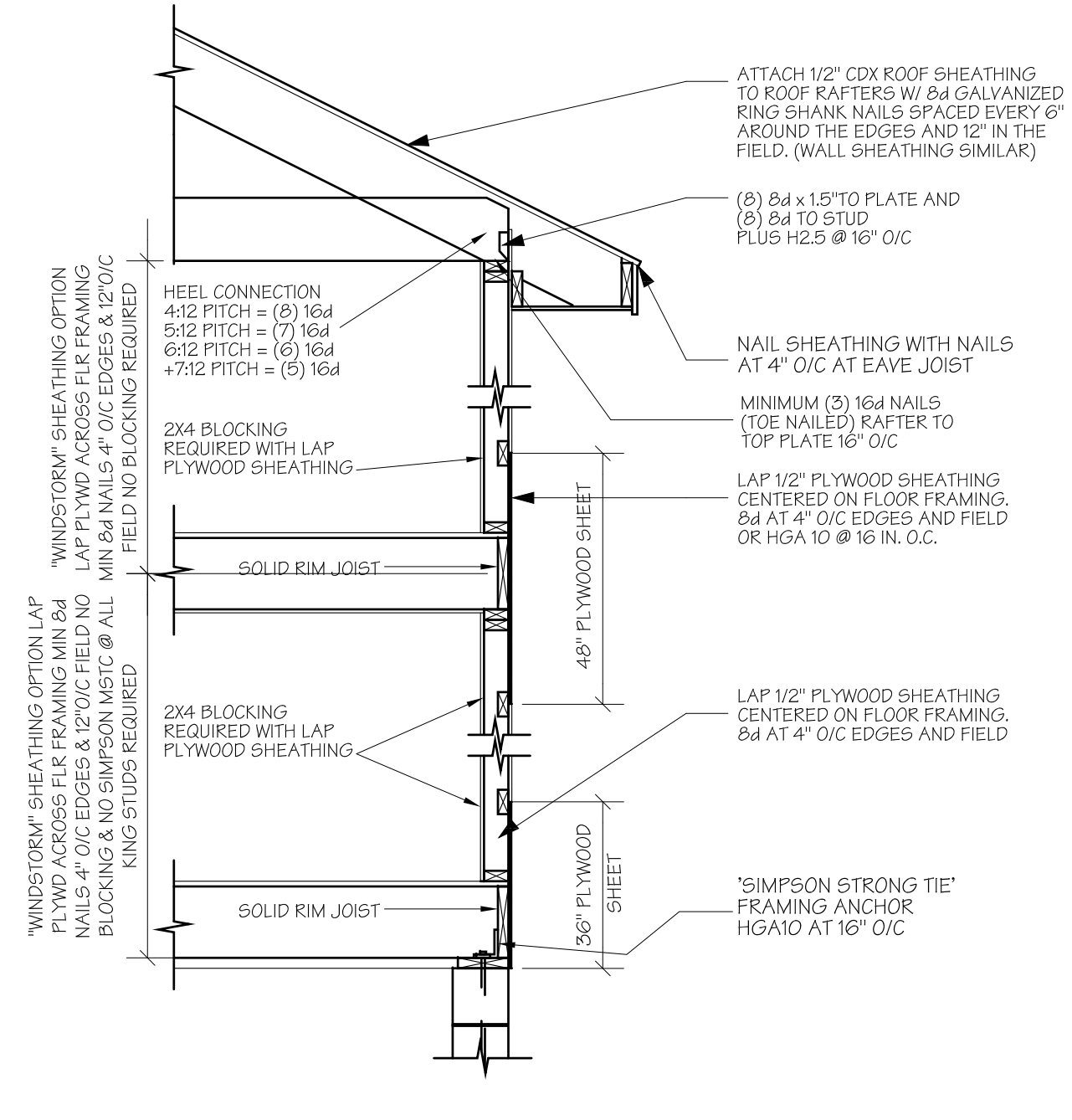
DETAILS & NOTES  
Revisions:  
Date: 8-30-22  
Scale: NOTED  
Drawn: RMB  
Checked: GWT  
Dwg. No. D209B DENS  
98 DUPLEX 5PT HEIGHT PREFAB DENSGLAS

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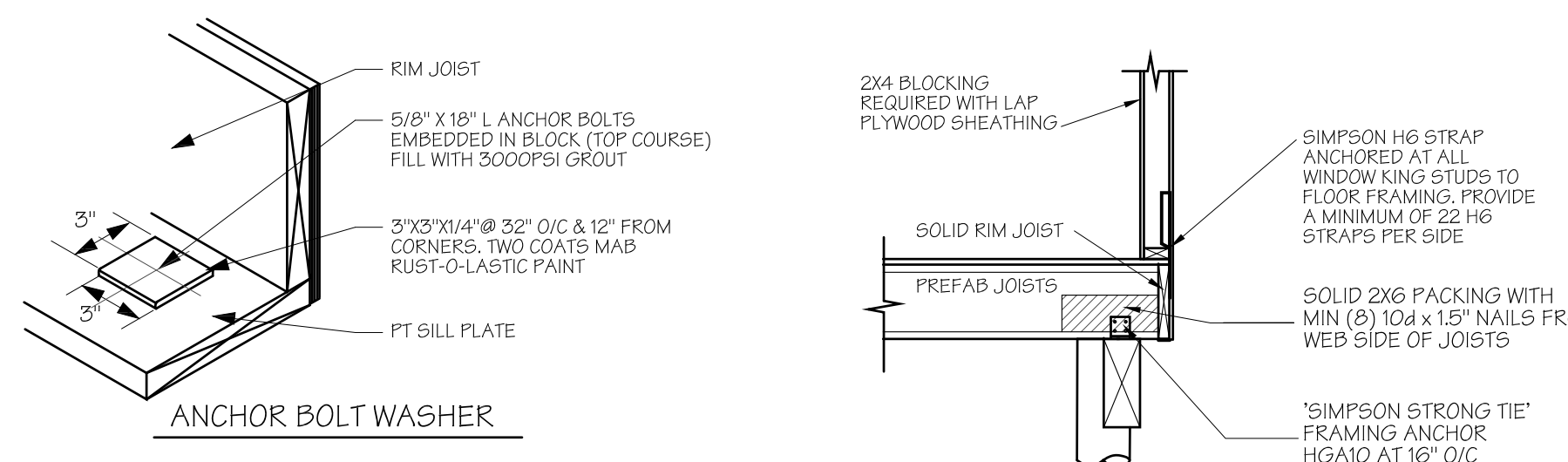
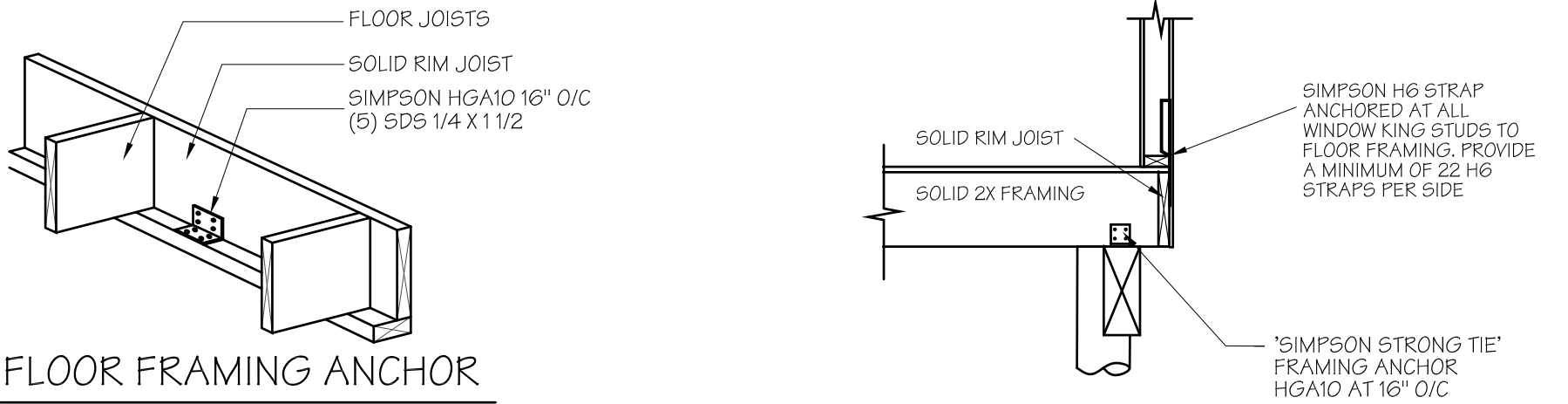
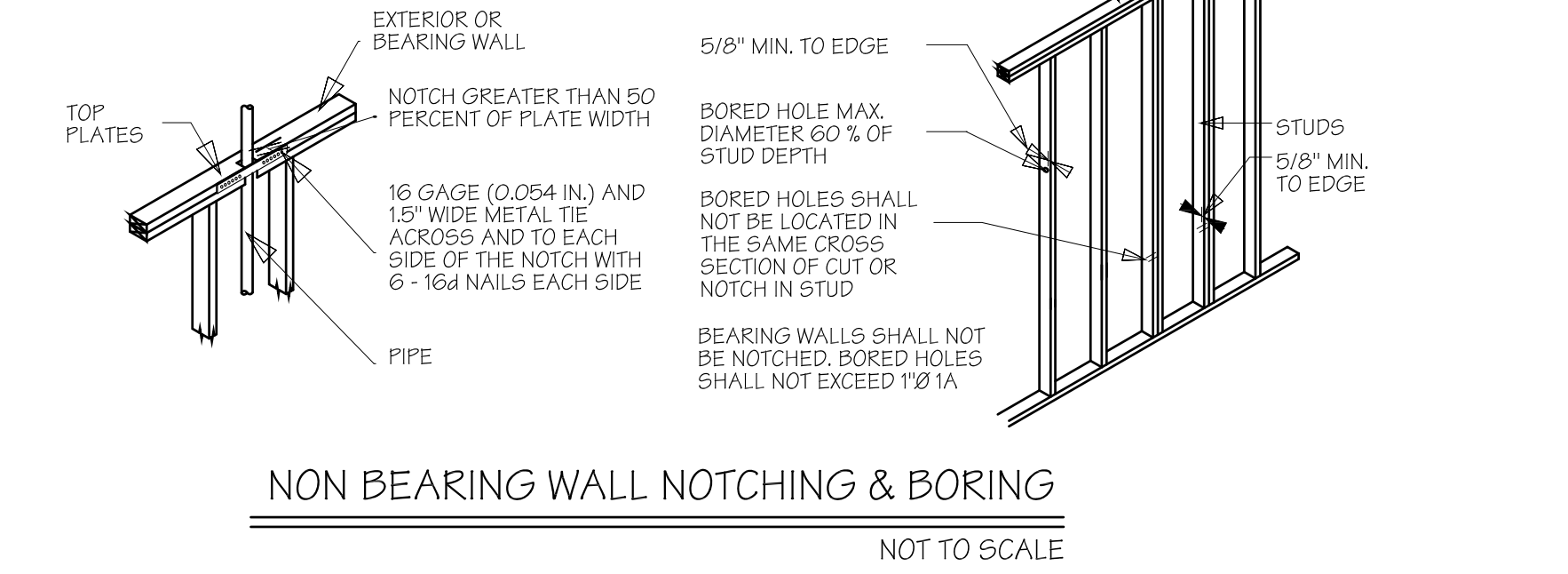
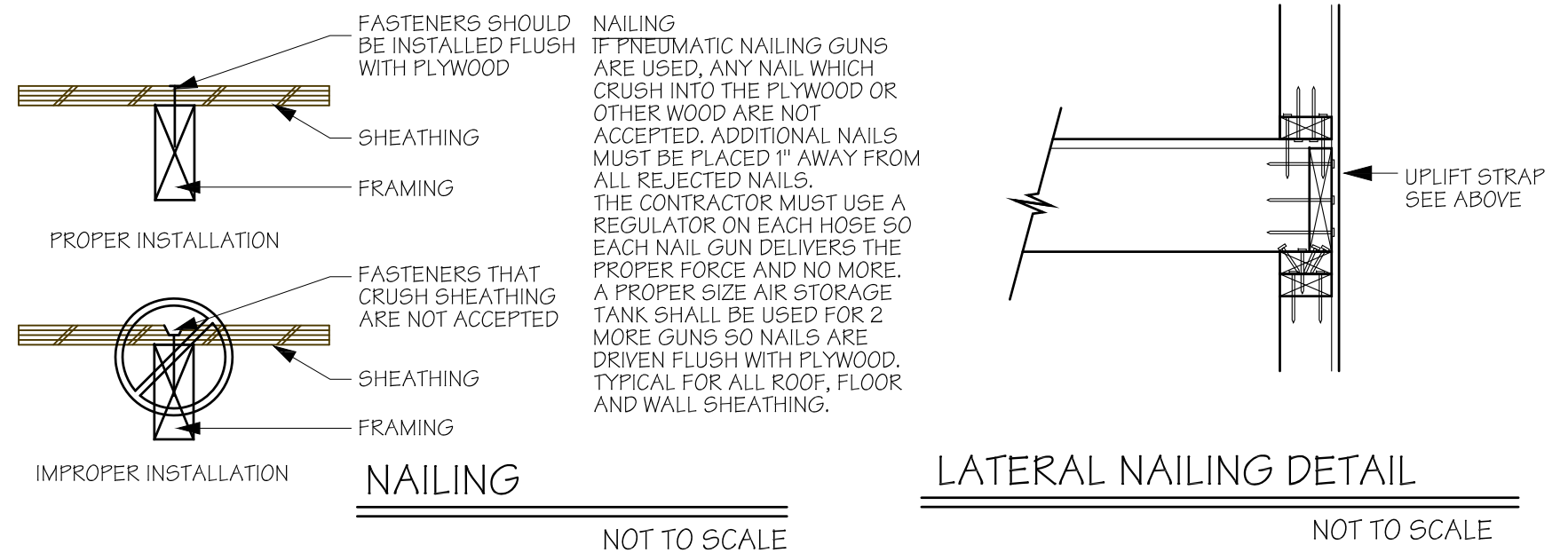




TYP. DENSGLASS SHEATHED WALL SECTION  
WALLS 5'-0" OR LESS FROM THE PROPERTY LINE NOT TO SCALE

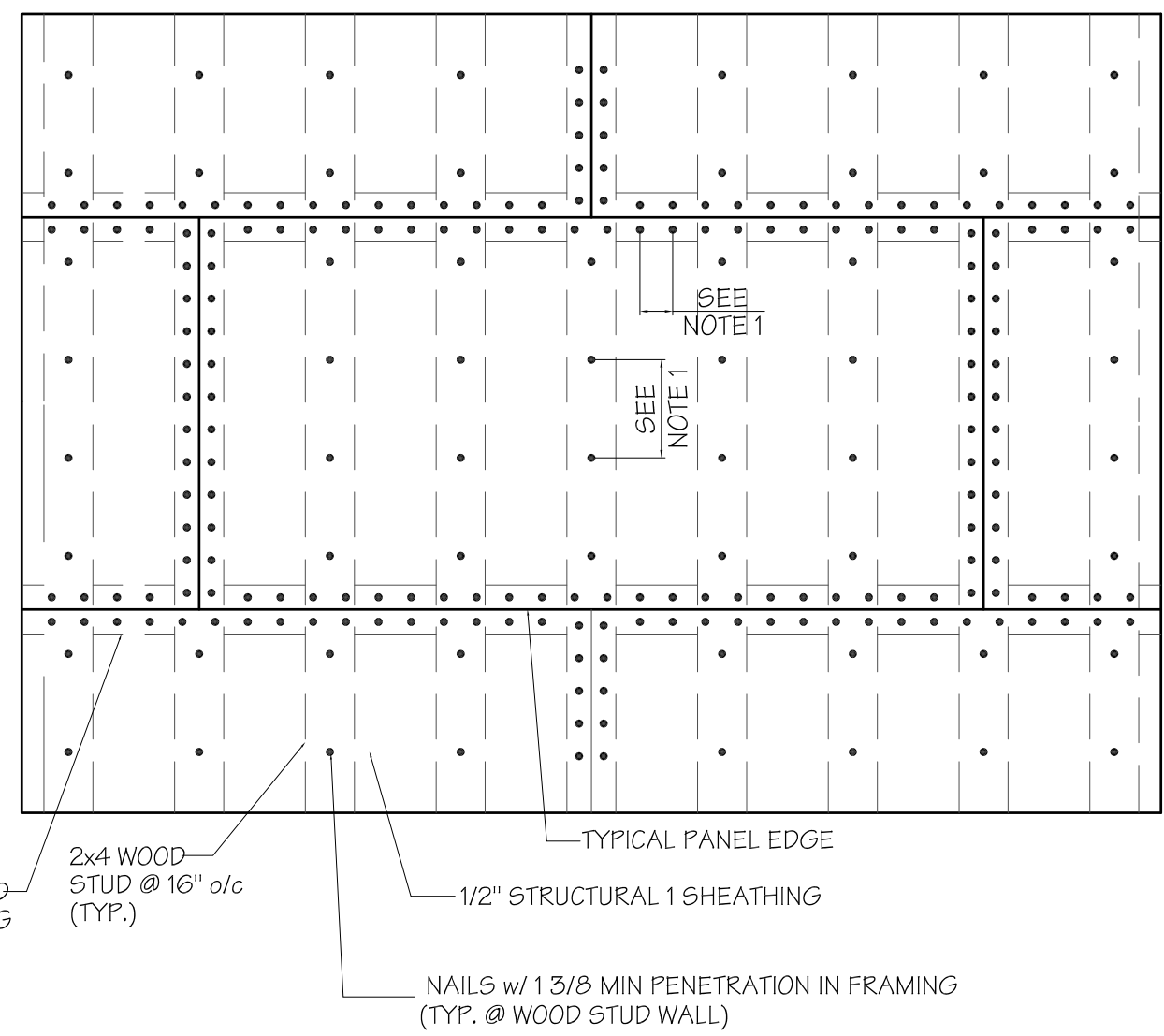


TYP. PLYWOOD SHEATHED WALL SECTION  
WALLS 5'-0" OR GREATER FROM THE PROPERTY LINE NOT TO SCALE



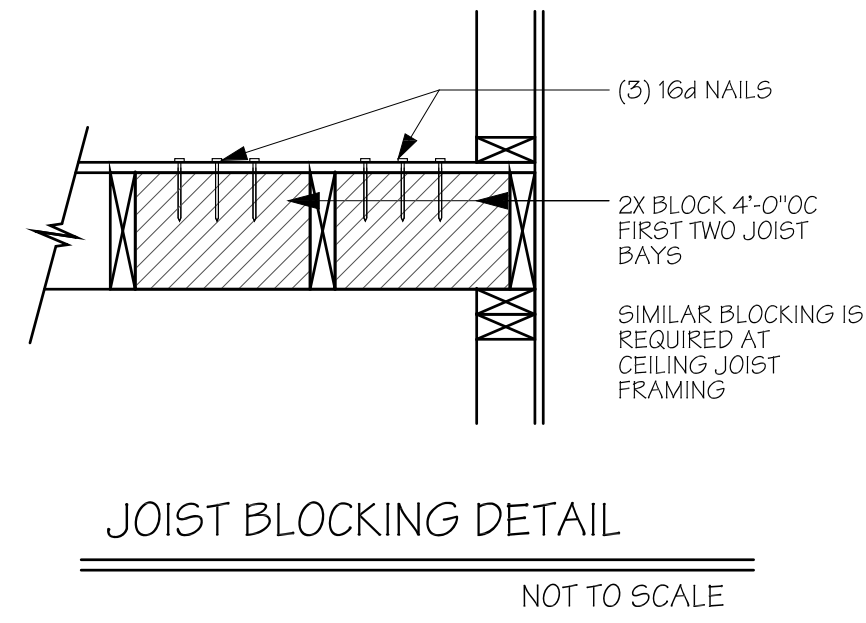
TYPICAL HIGH WIND CONSTRUCTION  
NOT TO SCALE

FLOOR FRAMING ANCHOR / PILE STRINGERS  
NOT TO SCALE

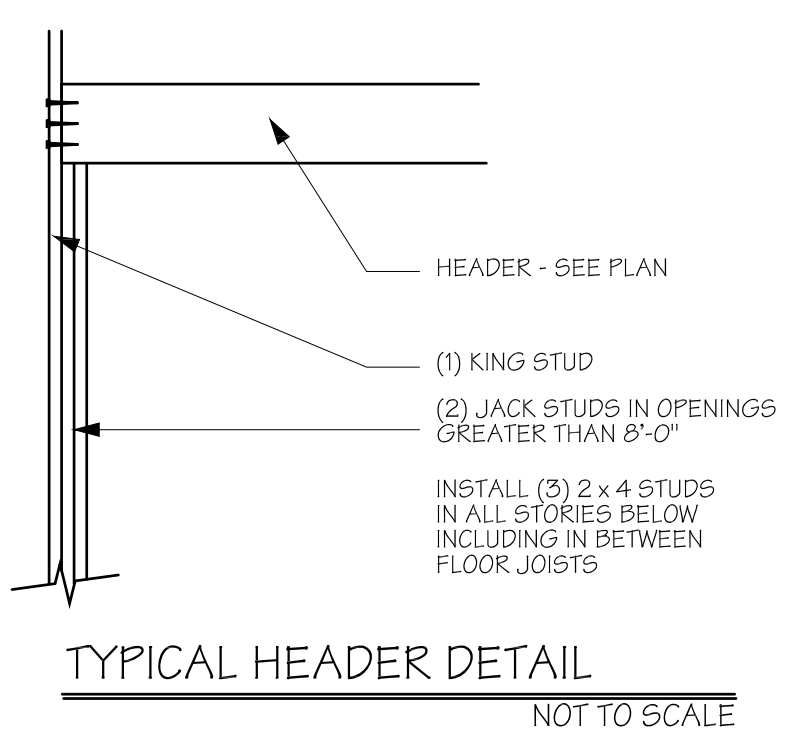


TYPICAL SHEAR WALL PANEL NAILING PATTERN

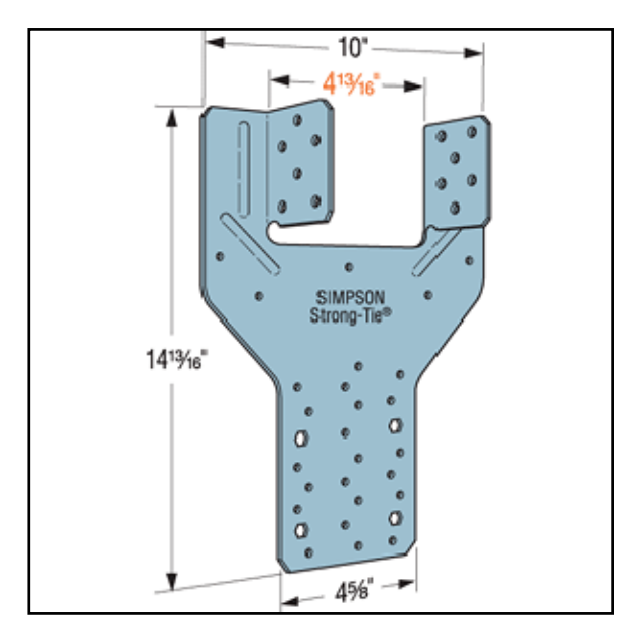
- NOTES:
- FASTENER SPACING @ PANEL EDGES ON ALL SHEAR WALLS AS PER SCHEDULE MINIMUM EMBEDMENT OF NAILS = 1 3/8"
  - SHEATHING SHALL BE NAILED DIRECTLY TO WALL STUDS AND BLOCKING
  - PANEL EDGES INCLUDE EDGES OF SHEATHING AROUND WINDOW AND DOOR OPENINGS



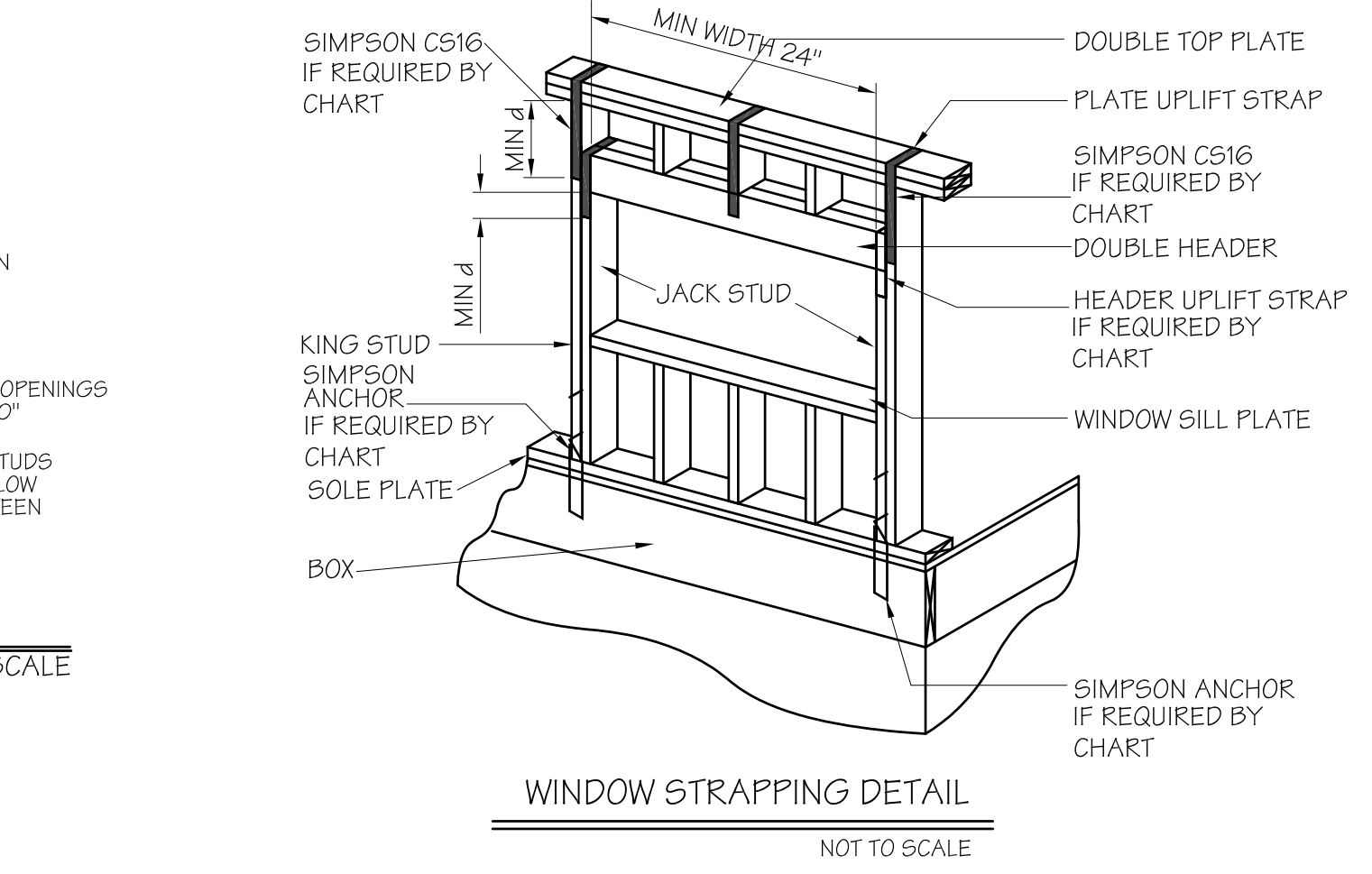
JOIST BLOCKING DETAIL  
NOT TO SCALE



TYPICAL HEADER DETAIL  
NOT TO SCALE



Simpson LGT3-SDS2.5  
TO BE USED ONLY AT DOOR OPENINGS GREATER THAN 75"

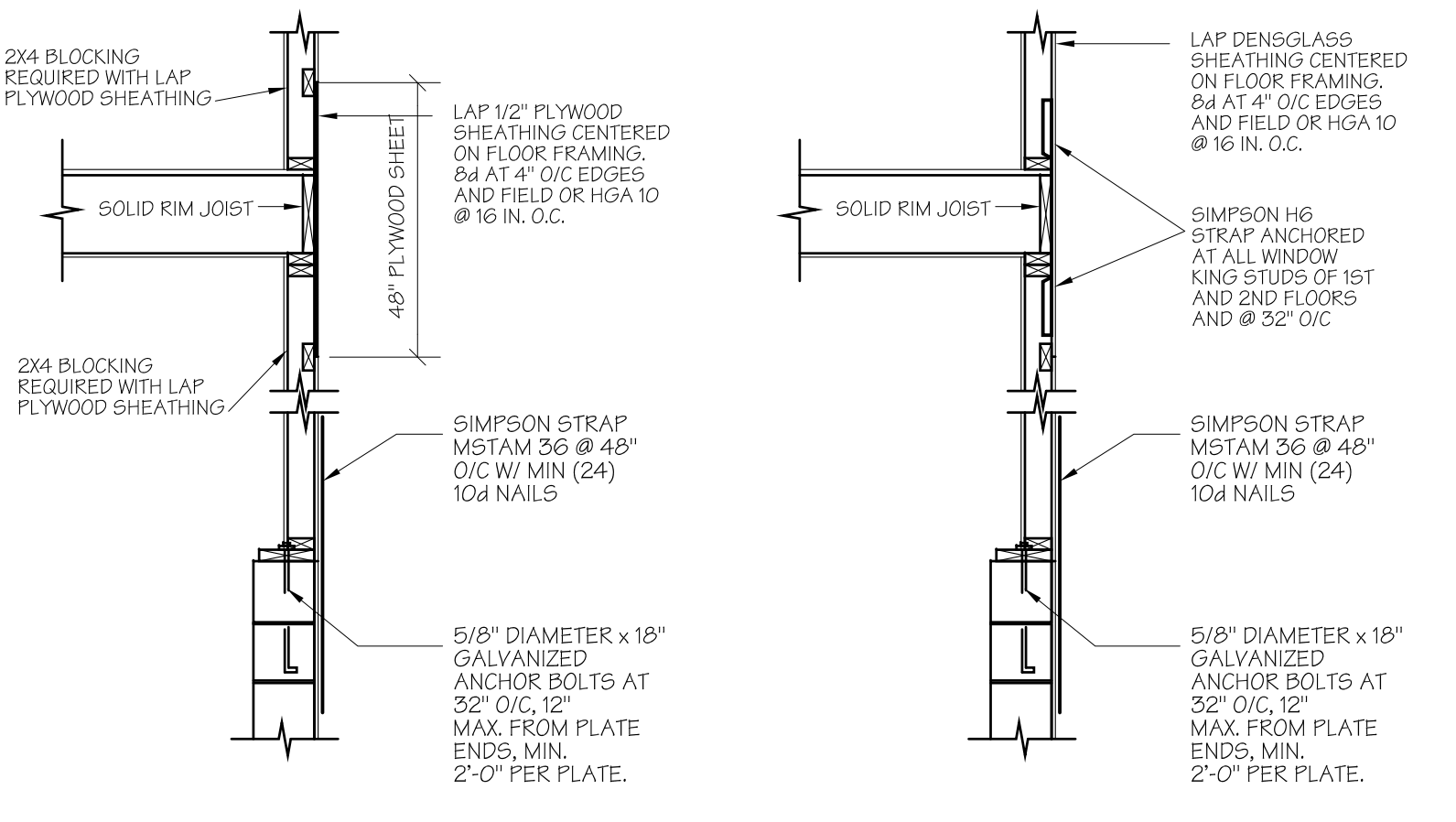


WINDOW STRAPPING DETAIL  
NOT TO SCALE

OPENING WIDTH	REQUIRED STRAP	MIN d	TOTAL NAILS REQ'D	KING & JACK STUD ANCHOR TO FLOOR		
				ANCHOR	STUD FASTENERS	RIM JOIST FASTENERS
UP TO 72"	N/A	N/A	N/A	N/A	N/A	N/A
73" TO 96"	SIMPSON C516	26"	(40) 6d @ 2" O/C	LGT3-SDS2.5	(12) SDS 1/4 X 2 1/2	(26) 16d NAILS
97" TO 120"	SIMPSON C516	30"	(50) 6d @ 2" O/C	LGT3-SDS2.5	(12) SDS 1/4 X 2 1/2	(26) 16d NAILS
121" TO 144"	SIMPSON C516	36"	(60) 6d @ 2" O/C	LGT3-SDS2.5	(12) SDS 1/4 X 2 1/2	(26) 16d NAILS

ALL STRAPS SHALL BE CONTINUOUS AND SHALL WRAP OVER HEADER AND TOP PLATES. STRAPS SHALL BE MOUNTED EQUIDISTANT DOWN EACH SIDE OF EACH STUD. ONE HALF (1/2) OF THE TOTAL NAIL COUNT SHALL BE PROVIDED ON EACH SIDE OF EACH STUD.

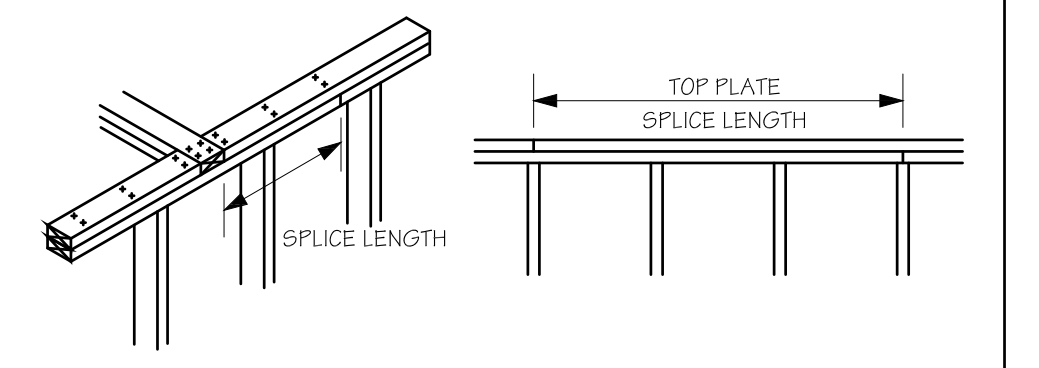
GENERAL NAILING SCHEDULE			
JOINT DESCRIPTION	NUMBER OF COMMON NAILS	NUMBER OF BOX NAILS	NAIL SPACING
<b>ROOF FRAMING</b>			
BLOCKING TO RAFTER (TOE-NAILED)	2-6d	2-10d	EACH END
RIM BOARD TO RAFTER (END-NAILED)	2-16d	3-16d	EACH END
<b>WALL FRAMING</b>			
TOP PLATES AT INTERSECTIONS (FACE-NAILED)	4-16d	5-16d	AT JOINTS
STUD TO STUD (FACE-NAILED)	2-16d	2-16d	24" O/C
HEADER TO HEADER (FACE-NAILED)	16d	16d	16" O/C ALONG EDGES
<b>FLOOR FRAMING</b>			
JOIST TO SILL, TOP PLATE OR GIRDER (TOE-NAILED)	4-6d	4-10d	PER JOIST
BLOCKING TO JOIST (TOE-NAILED)	2-6d	2-10d	EACH END
BLOCKING TO SILL OR TOP PLATE (TOE-NAILED)	3-16d	4-16d	EACH BLOCK
LEDGER STRIP TO BEAM OR GIRDER (FACE-NAILED)	3-16d	4-16d	EACH JOIST
JOIST ON LEDGER TO BEAM (TOE-NAILED)	3-6d	3-10d	PER JOIST
BAND JOIST TO JOIST (END-NAILED)	3-16d	4-16d	PER JOIST
BAND JOIST TO SILL OR TOP PLATE (TOE-NAILED)	2-16d	3-16d	PER FOOT
<b>ROOF SHEATHING</b>			
<b>WOOD STRUCTURAL PANELS</b>			
RAFTERS OR TRUSSES SPACED UP TO 16" O/C	6d	10d	4' PERIMETER ZONE 6" EDGE / 6" FIELD
RAFTERS OR TRUSSES SPACED OVER 16" O/C	6d	10d	4' EDGE / 4" FIELD 4" EDGE / 8" FIELD
GABLE ENDWALL RAKE OR RAKE TRUSS W/O GABLE OVERHANG	6d	10d	6" EDGE / 6" FIELD 6" EDGE / 12" FIELD
GABLE ENDWALL RAKE OR RAKE TRUSS W/ STRUCTURAL OUTLOOKERS	6d	10d	6" EDGE / 6" FIELD 6" EDGE / 12" FIELD
GABLE ENDWALL RAKE OR RAKE TRUSS W/ LOOKOUT BLOCKS	6d	10d	4' EDGE / 4" FIELD 4" EDGE / 8" FIELD
<b>CEILING SHEATHING</b>			
GYPSUM WALLBOARD	5d COOLERS	--	4' EDGE / 7" FIELD 7" EDGE / 10" FIELD
<b>WALL SHEATHING</b>			
<b>WOOD STRUCTURAL PANELS</b>			
STUDS SPACED UP TO 24" O/C	6d	10d	6" EDGE / 6" FIELD 6" EDGE / 12" FIELD
1/2" AND 25/32" FIBERBOARD PANELS	6d	--	3" EDGE / 6" FIELD 3" EDGE / 6" FIELD
1/2" GYPSUM WALLBOARD	5d COOLERS	--	4' EDGE / 7" FIELD 7" EDGE / 10" FIELD
<b>FLOOR SHEATHING</b>			
<b>WOOD STRUCTURAL PANELS</b>			
1" OR LESS	6d	10d	6" EDGE / 6" FIELD 6" EDGE / 12" FIELD
GREATER THAN 1"	10d	16d	6" EDGE / 6" FIELD 6" EDGE / 12" FIELD



STEM WALL STRAPPING  
PLYWOOD SHEATHING  
WALLS 5'-0" OR GREATER FROM THE PROPERTY LINE

STEM WALL STRAPPING  
DENSGLASS SHEATHING  
WALLS 5'-0" OR LESS FROM THE PROPERTY LINE

SPlice LENGTH (FT)	TOP PLATE SPLICE															
	BUILDING DIMENSION OF WALL CONTAINING TOP PLATE SPLICE (FT)															
	12	16	20	24	28	32	36	40	50	60	70	80				
	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	
2	4	6	8	8	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	
4	4	6	7	8	10	12	14	16	NP	NP	NP	NP	NP	NP	NP	
6	4	6	7	8	10	12	14	16	20	24	NP	NP	NP	NP	NP	
8	4	6	7	8	10	12	14	16	20	24	28	32	NP	NP	NP	

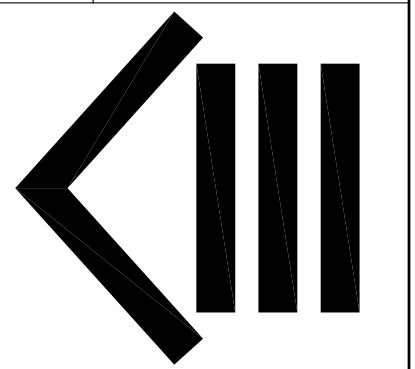


2015 FRAMING DETAILS

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Registered Architect  
Professional Engineer

George Wray Thomas  
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Revisions:

Date:  
5-17-18

Scale:  
NONE

Drawn:  
RMB

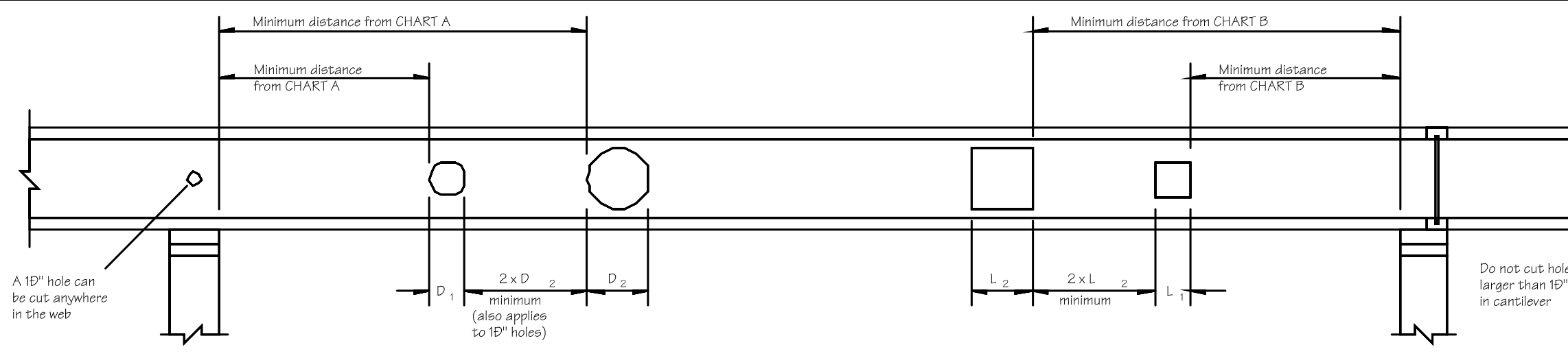
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DWS

File No:

Dwg. No.

FR15





HOW TO USE THESE CHARTS  
 1. Determine the hole shape (round, square or rectangular) and select the appropriate chart - A or B.  
 2. Under HOLE SIZE, locate the column which meets or exceeds the size of hole you require.  
 3. Use the first two columns to identify the T.J. joist series and depth being used in your floor or roof system.  
 4. Scan right across the row until you intersect the column which contains the hole size you selected.  
 The value shown is the required minimum distance from edge of the hole to the inside face of the nearest support.

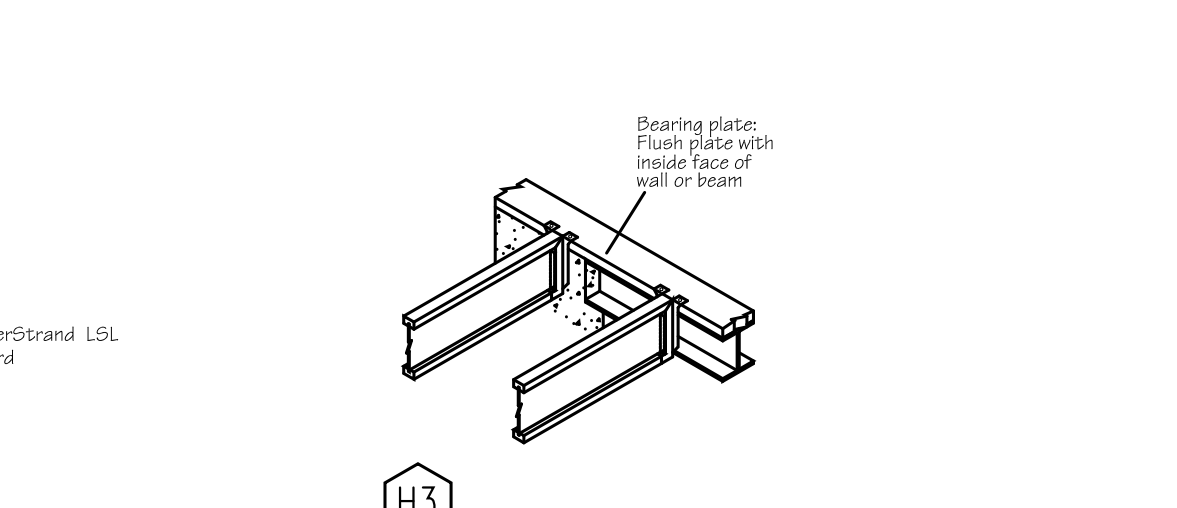
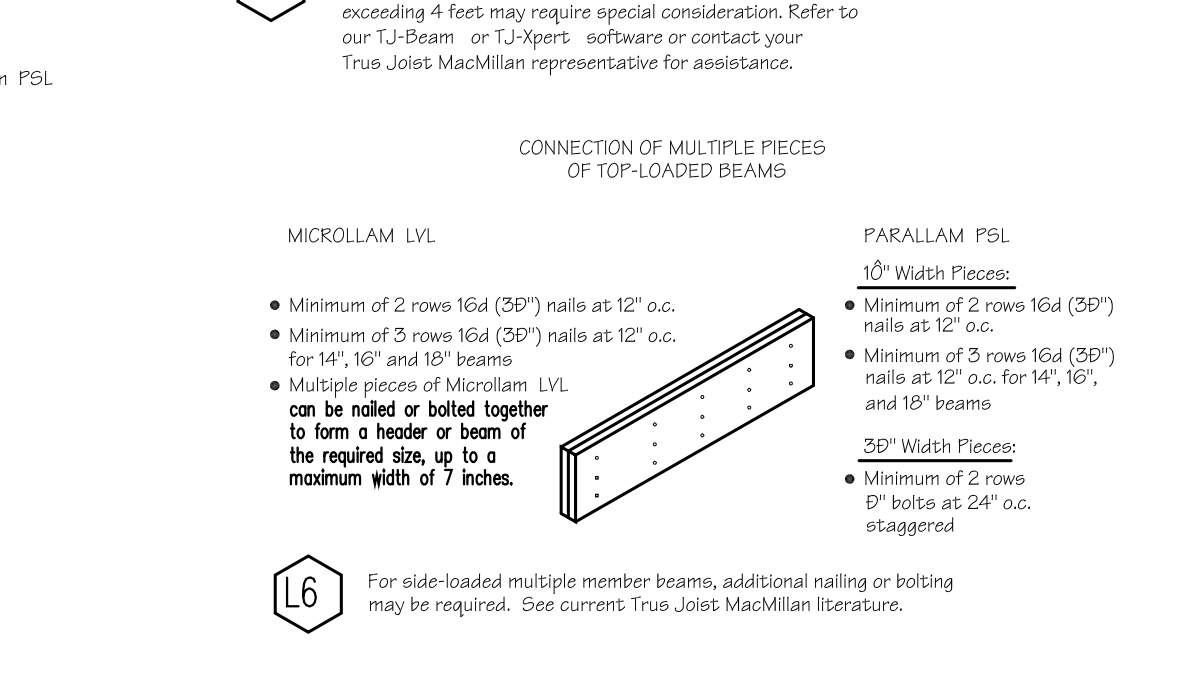
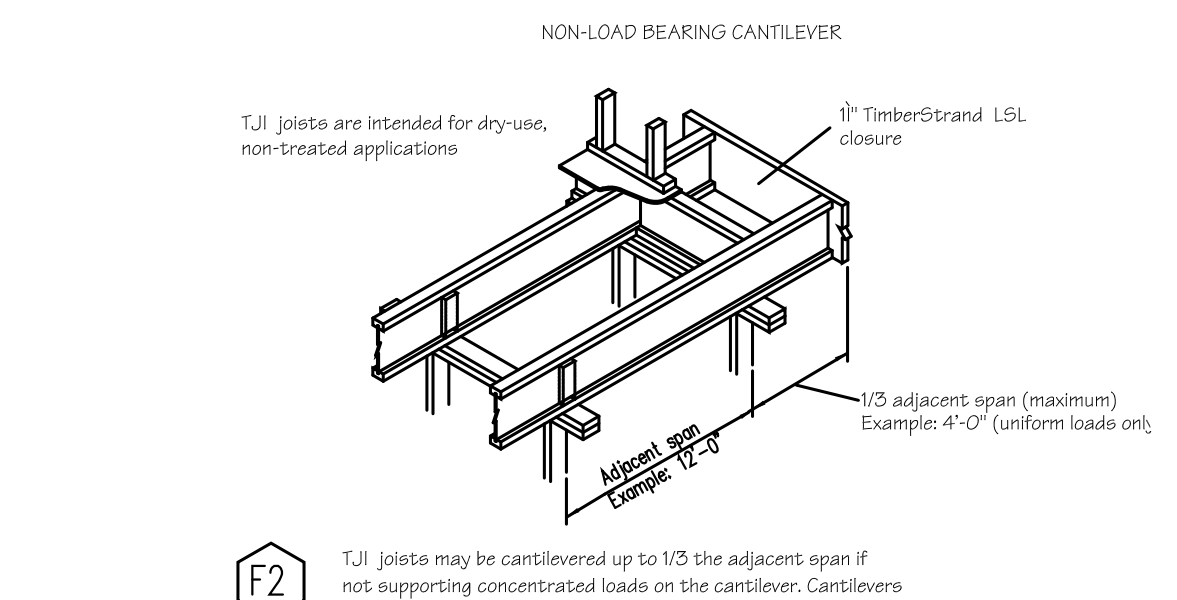
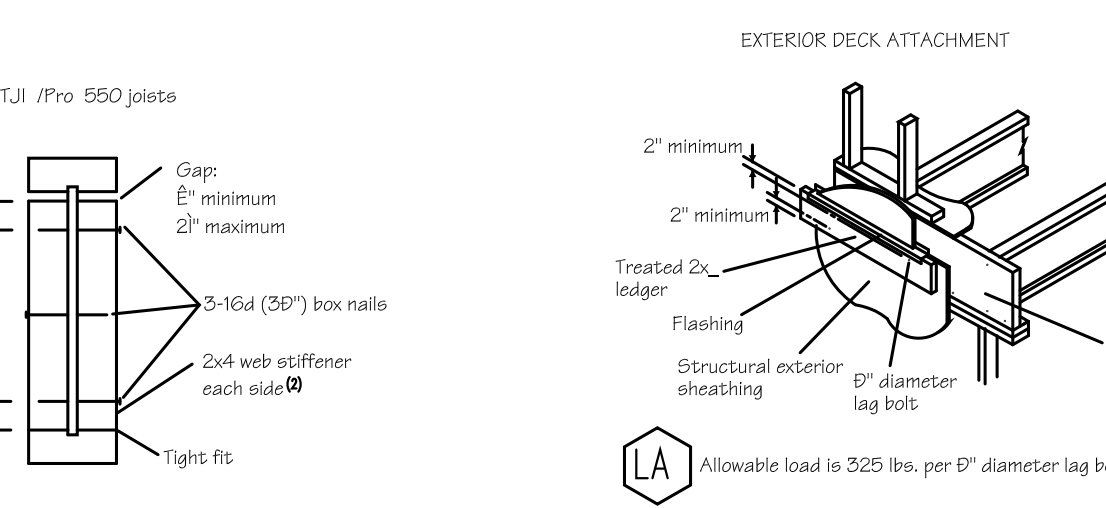
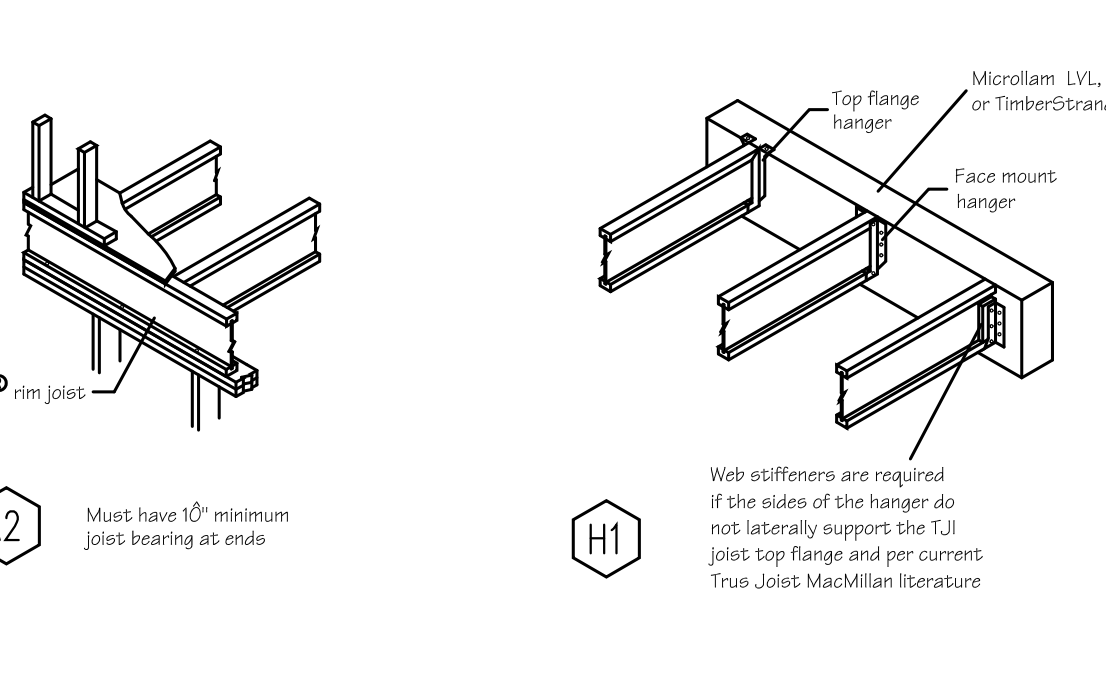
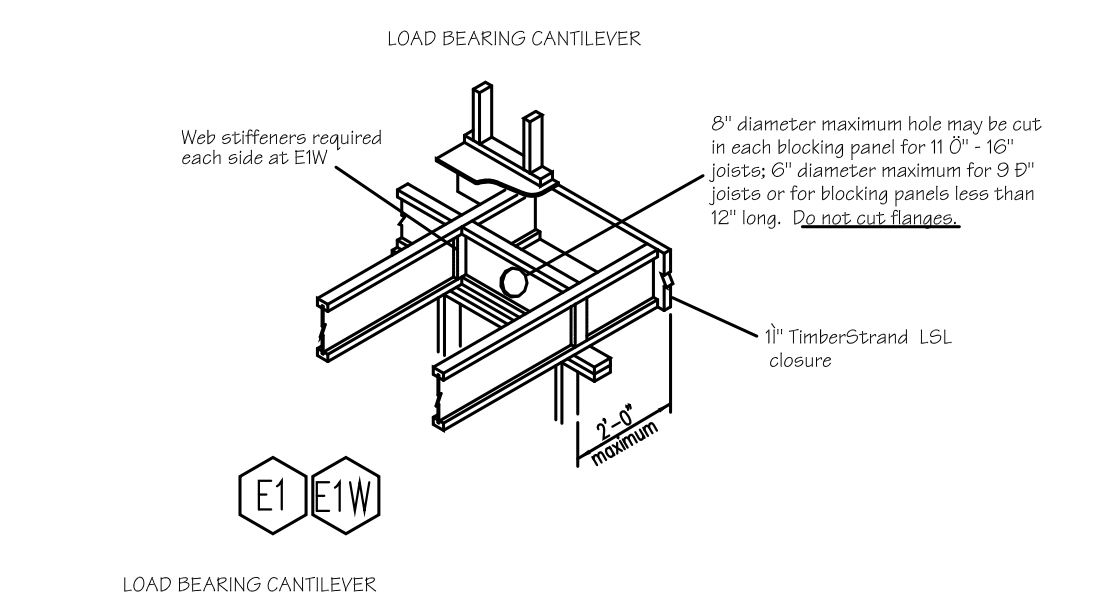
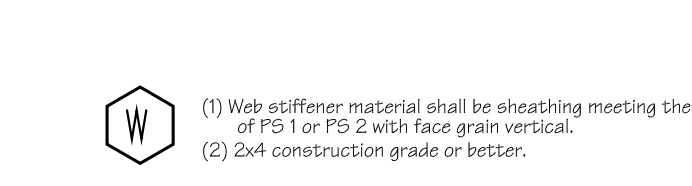
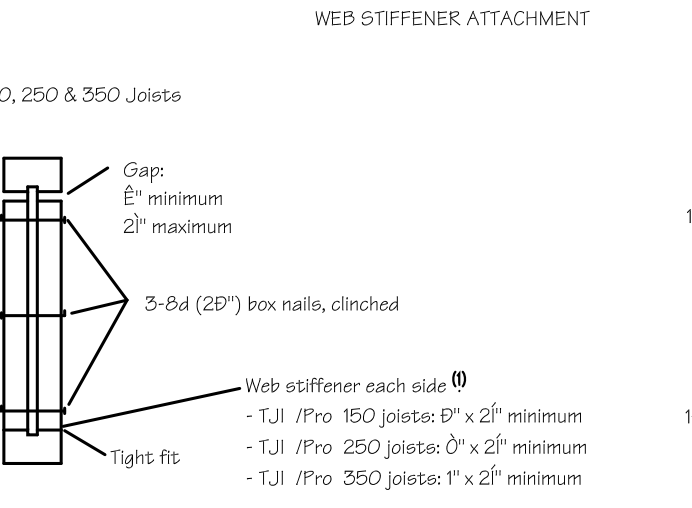
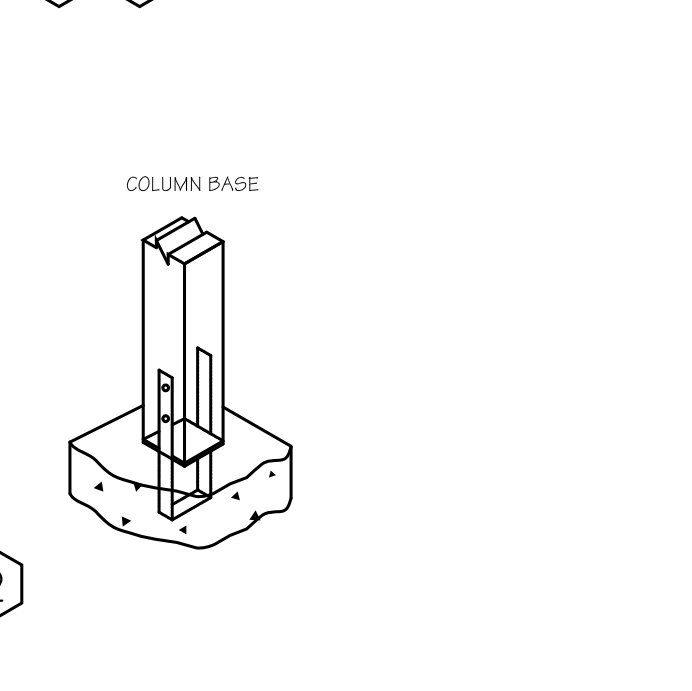
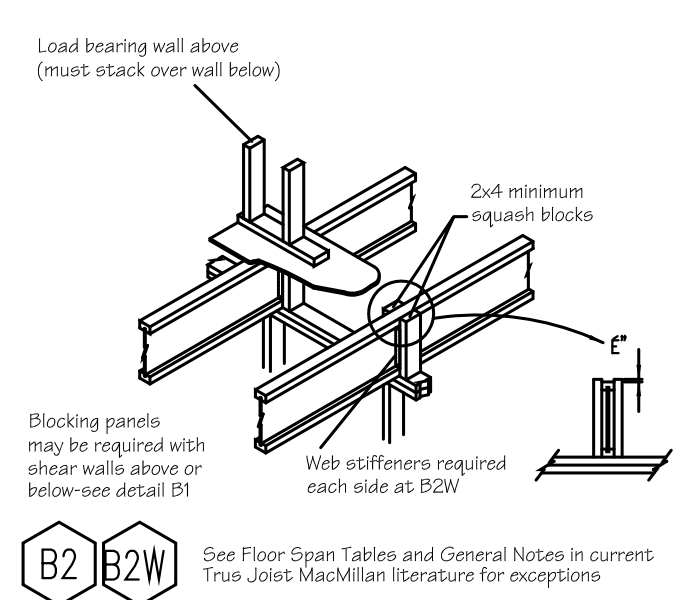
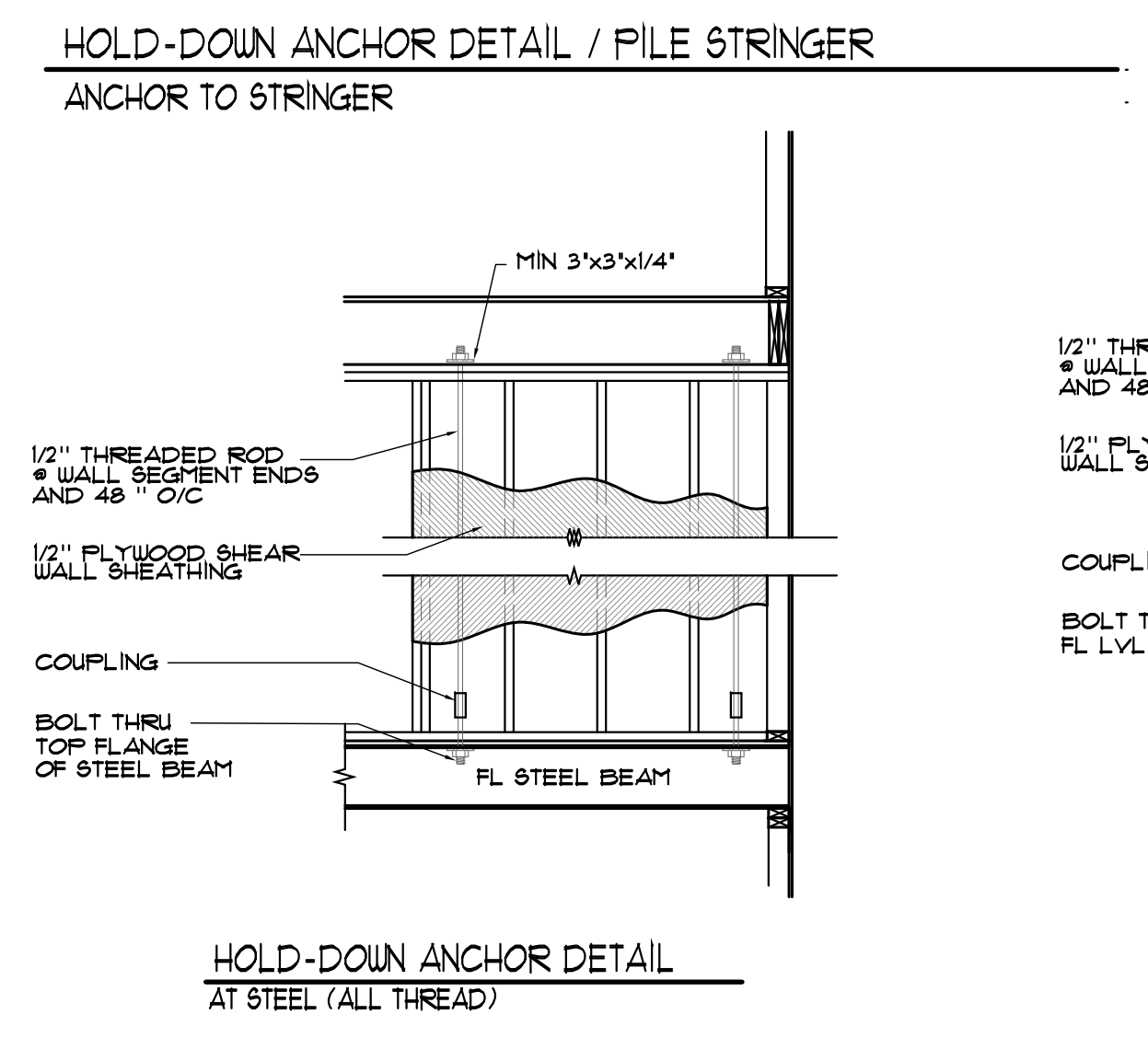
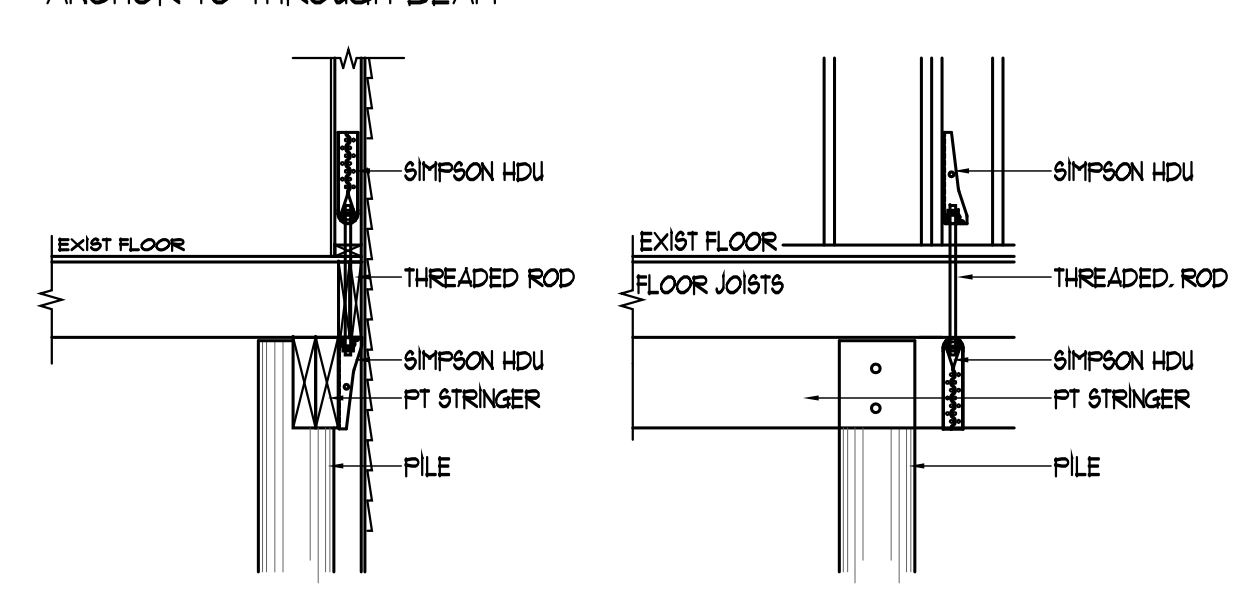
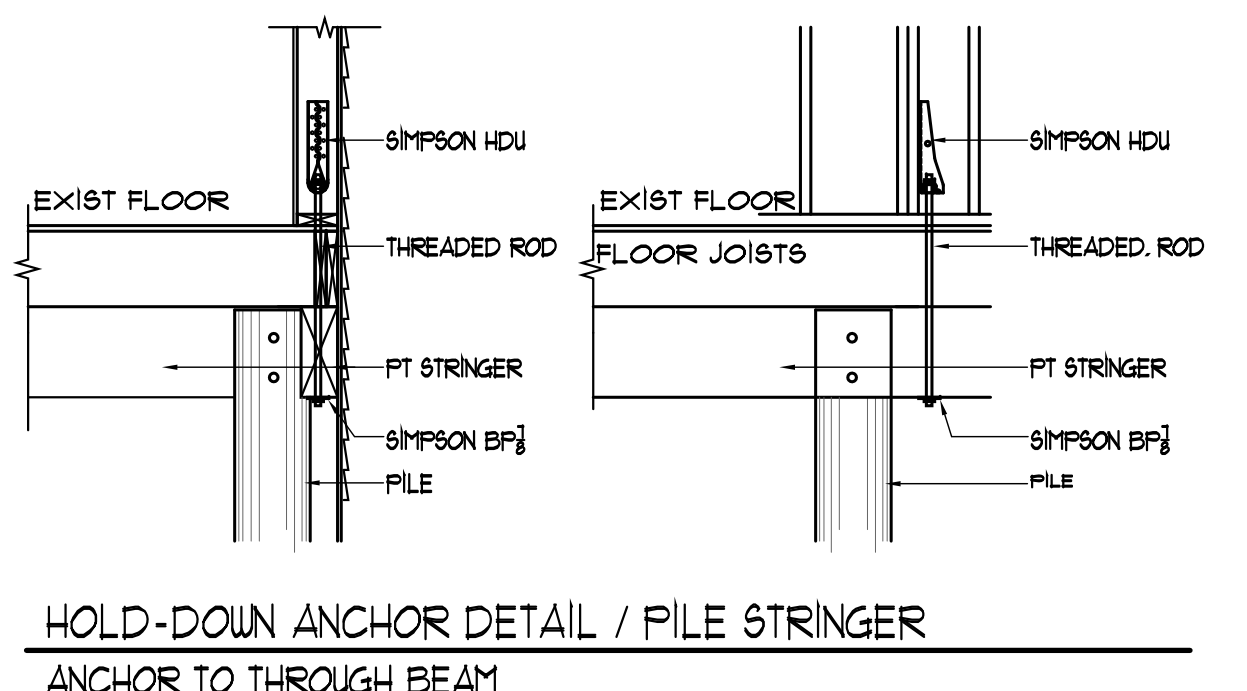
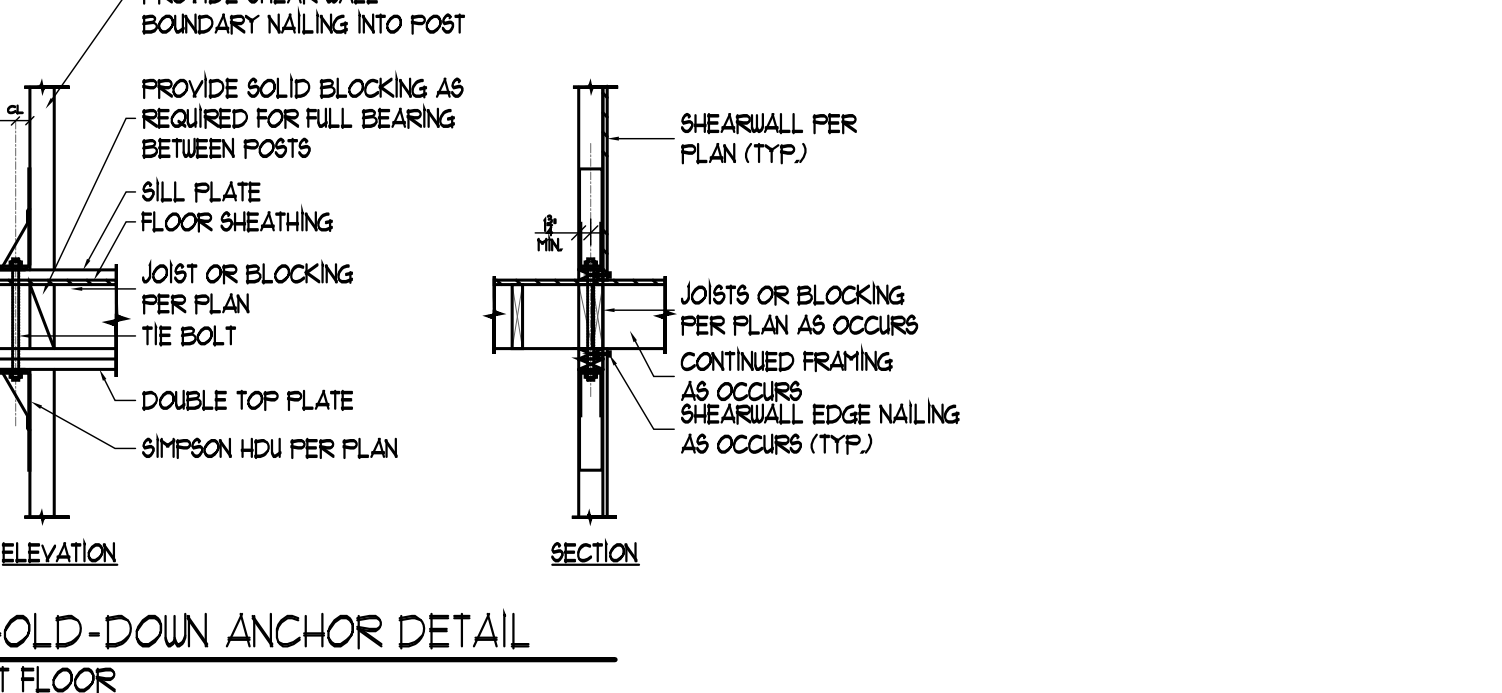
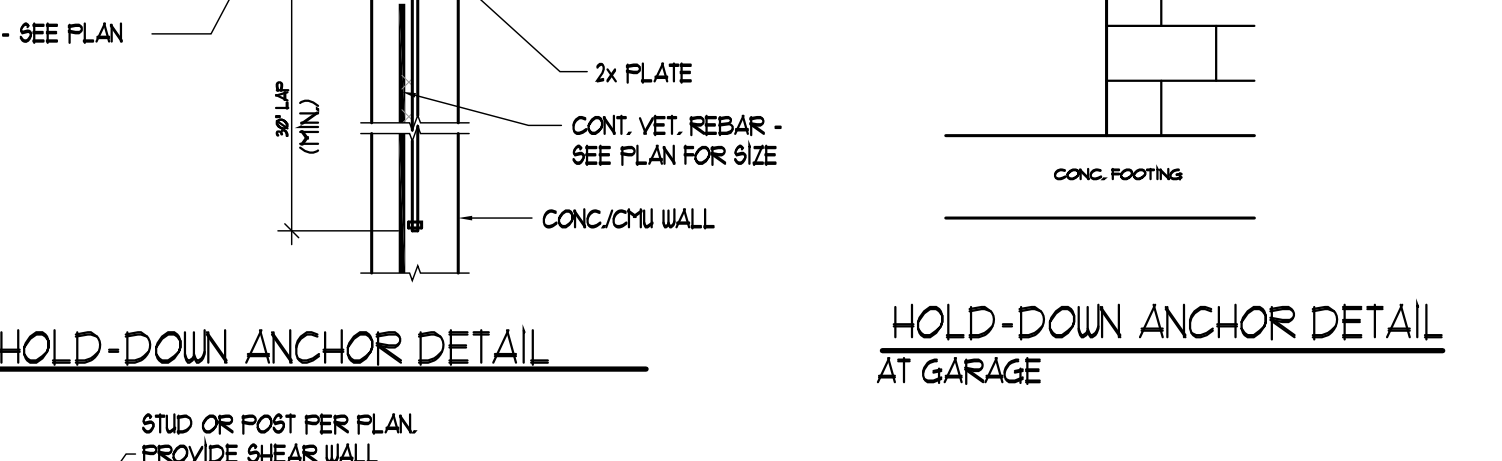
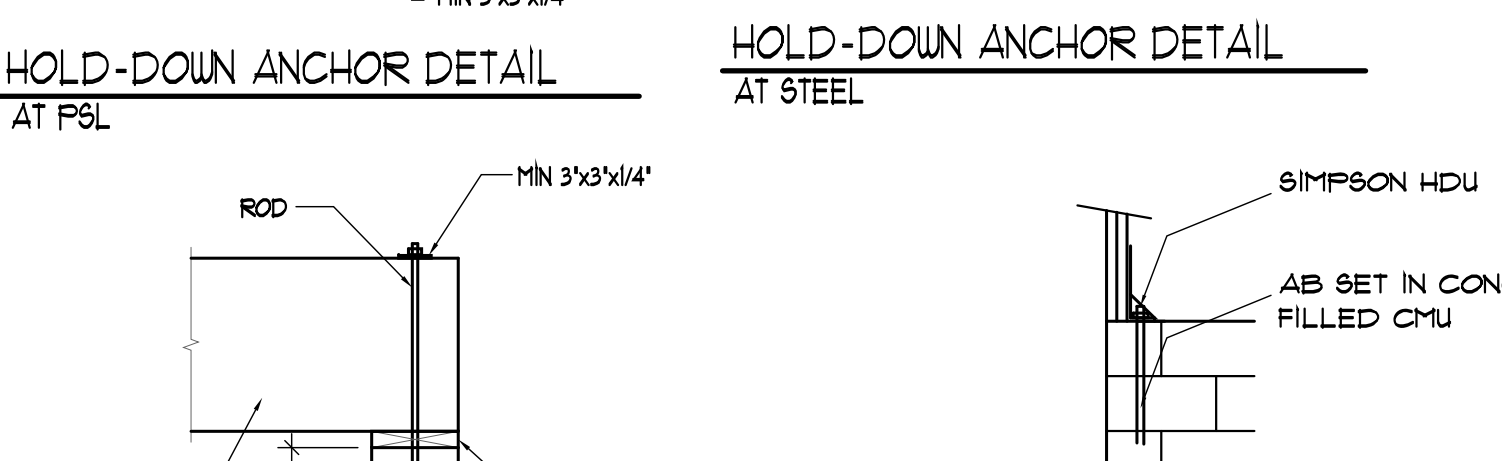
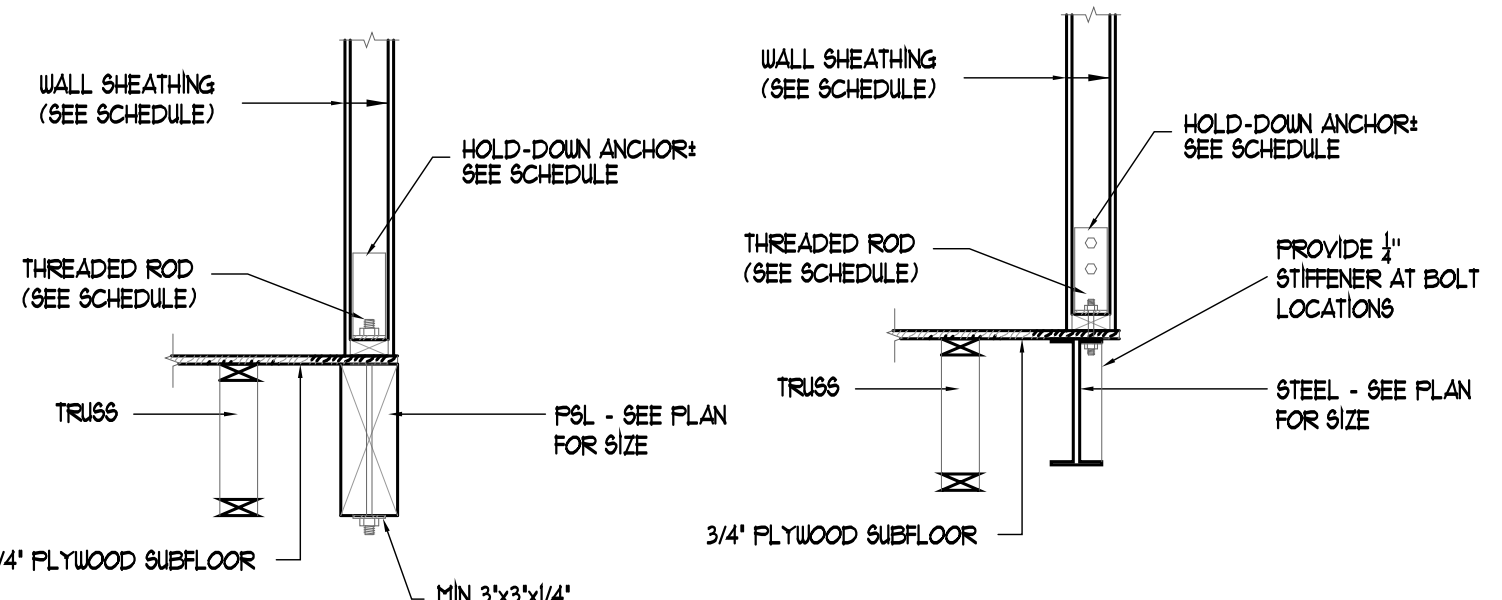
CHART A - ROUND HOLES  
 MINIMUM DISTANCE FROM INSIDE FACE OF ANY SUPPORT TO NEAREST EDGE OF HOLE

Depth	T.J. / Pro	ROUND HOLE SIZE													
		2"	3"	4"	5"	6"	6 1/2"	7"	8"	8 1/2"	9"	10"	10 1/2"	12"	12 1/2"
9 1/2"	150	1'-0"	1'-0"	3'-0"	5'-0"	6'-6"	7'-6"								
	250	1'-0"	2'-6"	4'-0"	5'-6"	7'-0"	8'-0"								
10 1/2"	150	1'-0"	1'-0"	2'-0"	3'-0"	3'-6"	5'-0"	7'-0"	8'-6"						
	250	1'-0"	1'-0"	2'-0"	3'-0"	4'-6"	5'-0"	6'-0"	8'-0"	9'-0"					
14"	250	1'-0"	1'-0"	1'-0"	1'-6"	2'-0"	3'-0"	5'-0"	6'-0"	6'-6"	8'-6"	10'-0"			
	350	1'-0"	1'-0"	1'-0"	1'-6"	3'-0"	3'-6"	4'-6"	6'-0"	7'-0"	8'-0"	9'-6"	11'-0"		
16"	250	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	1'-6"	2'-6"	3'-0"	5'-0"	6'-6"	9'-0"	11'-0"	
	350	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-0"	4'-0"	5'-0"	6'-6"	8'-0"	10'-6"	12'-6"	
18"	250	1'-0"	1'-0"	1'-0"	2'-0"	2'-6"	3'-6"	5'-0"	7'-0"	8'-6"	10'-0"	12'-0"			
	350	1'-0"	1'-0"	1'-0"	2'-0"	2'-6"	3'-6"	5'-0"	7'-0"	8'-6"	10'-0"	12'-0"	13'-6"		

CHART B - SQUARE OR RECTANGULAR HOLES  
 MINIMUM DISTANCE FROM INSIDE FACE OF ANY SUPPORT TO NEAREST EDGE OF HOLE

Depth	T.J. / Pro	SQUARE OR RECTANGULAR HOLE SIZE													
		2"	3"	4"	5"	6"	6 1/2"	7"	8"	8 1/2"	9"	10"	10 1/2"	12"	12 1/2"
9 1/2"	150	1'-0"	2'-0"	4'-0"	6'-0"	6'-6"	6'-6"								
	250	1'-0"	2'-6"	4'-6"	6'-6"	7'-0"	7'-0"								
10 1/2"	150	1'-0"	1'-0"	2'-0"	4'-0"	6'-6"	7'-6"	8'-0"	8'-6"	9'-0"					
	250	1'-0"	1'-0"	2'-0"	3'-6"	5'-0"	7'-6"	8'-0"	8'-6"	9'-0"	9'-6"				
14"	250	1'-0"	1'-0"	1'-6"	3'-6"	6'-0"	6'-6"	10'-0"	10'-6"	11'-0"	12'-0"				
	350	1'-0"	1'-0"	2'-6"	4'-6"	6'-6"	7'-0"	9'-0"	10'-6"	11'-6"	12'-0"				
16"	250	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	2'-0"	4'-0"	6'-6"	8'-6"	9'-6"	10'-0"	11'-0"	11'-6"	
	350	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-6"	3'-0"	3'-6"	5'-0"	6'-6"	8'-0"	10'-6"	13'-0"	
18"	250	1'-0"	1'-0"	1'-0"	2'-0"	2'-6"	3'-6"	5'-0"	7'-0"	8'-6"	10'-0"	12'-0"	13'-0"	13'-6"	
	350	1'-0"	1'-0"	1'-0"	2'-0"	2'-6"	3'-6"	5'-0"	7'-0"	8'-6"	10'-0"	12'-0"	13'-0"	15'-0"	

\*Rectangular holes based on measurement of longest side.



SHEARWALL SCHEDULE

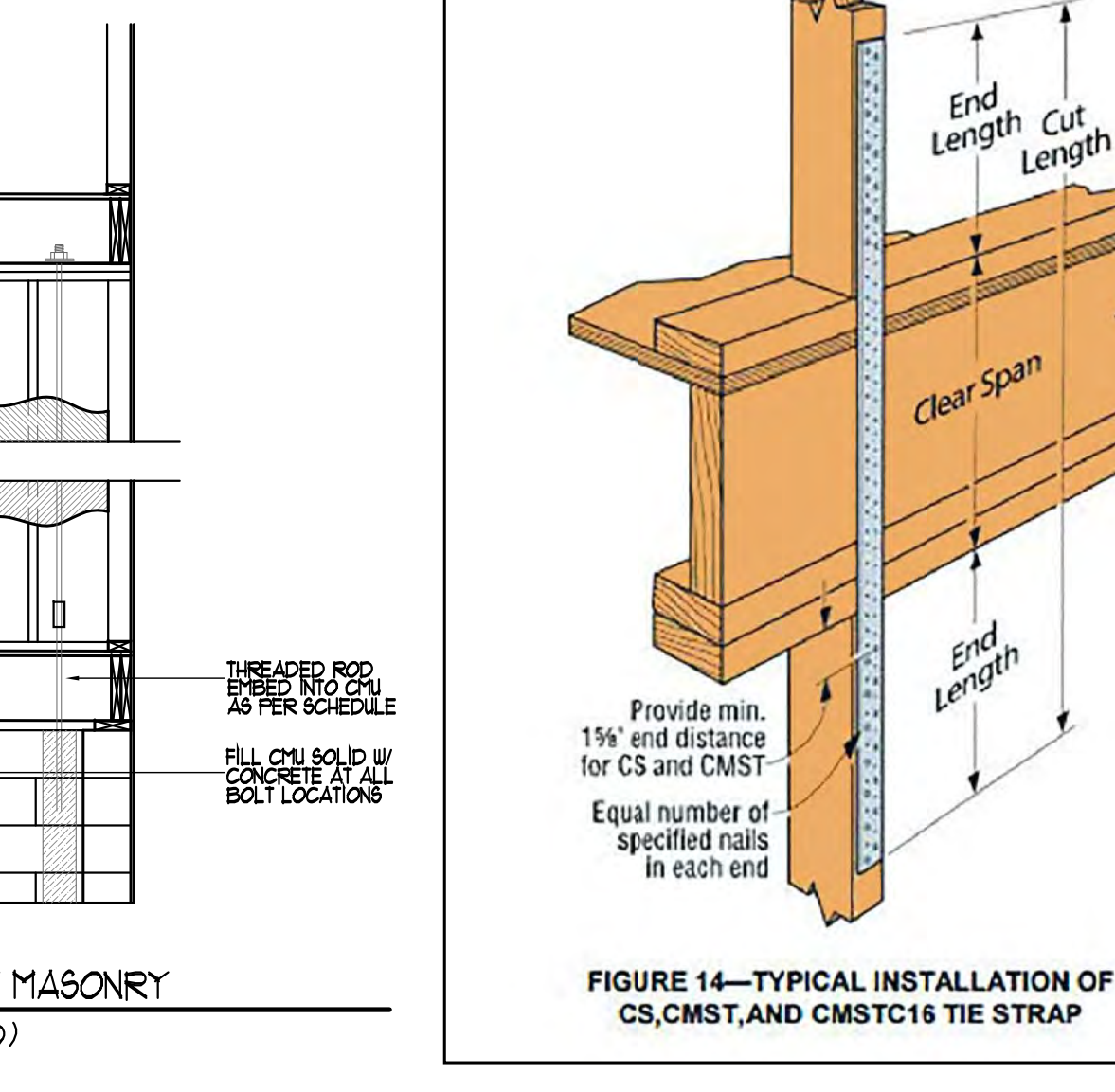
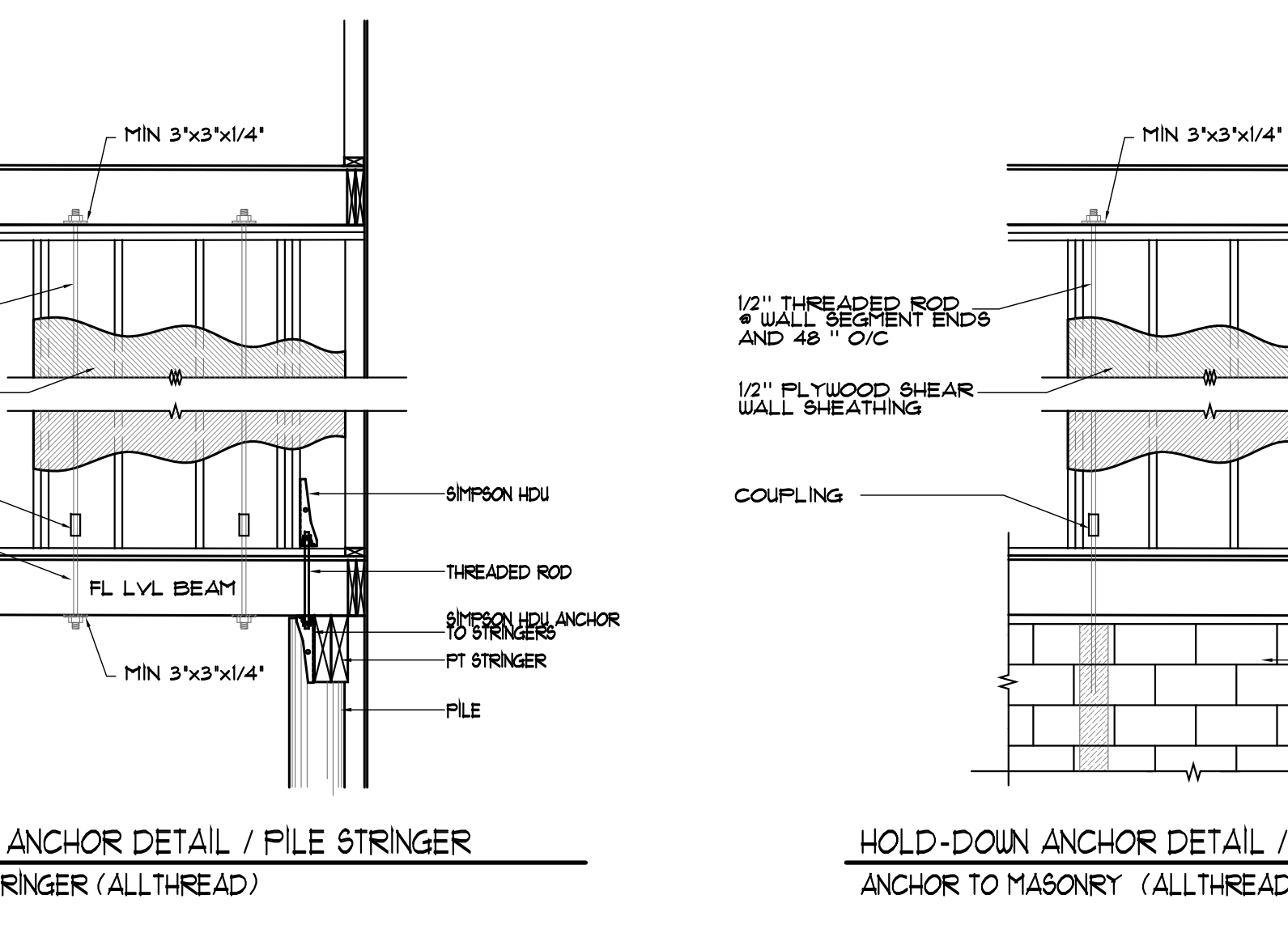
SHEARWALL #	PLYWOOD	SIDES OF WALL	NAILS	EMBEDMENT	SHEAR WALL ANCHORS		REMARKS
					CMU	FLR TO FLR	
1	1/2"	1X	8d @ 4" O/C	1 3/8"	HDU 4	CMSTC16	MSTCABB3 TO RIM JOIST H6 AT ALL FLOOR JOISTS TO STGR
2	1/2"	1X	8d @ 3" O/C	1 3/8"	HDU 5	CMSTC16	MSTCABB3 TO RIM JOIST H6 AT ALL FLOOR JOISTS TO STGR
3	1/2"	2X	8d @ 4" O/C	1 3/8"	HDU 8	CMSTC14	MSTCABB3 TO RIM JOIST H6 AT ALL FLOOR JOISTS TO STGR
4	1/2"	2X	8d @ 3" O/C	1 3/8"	HDU 11	CMSTC12	MSTCABB3 TO RIM JOIST H6 AT ALL FLOOR JOISTS TO STGR
5	FULL HEIGHT 8" MASONRY WITH #4 VERTICAL IN CONCRETE FILLED CORES @ 48" O/C						
6	FULL HEIGHT 8" MASONRY WITH #4 VERTICAL IN CONCRETE FILLED CORES @ 8" O/C						

HOLD DOWN ANCHOR SCHEDULE

HOLD DOWN MARK	MODEL	MIN WOOD MEMBER THKNGS	SCREWS	BOLT MODEL	ANCHOR BOLT DIA.	MINIMUM EMBEDMENT
HDU4	HDU4-SDS2.5	4.5"	10 SDS 1/4 x 2 1/2"	SSTB16	5/8"	12 1/2"
HDU5	HDU5-SDS2.5	4.5"	14 SDS 1/4 x 2 1/2"	SSTB16	5/8"	12 1/2"
HDU8	HDU8-SDS2.5	4.5"	20 SDS 1/4 x 2 1/2"	SSTB28	7/8"	24 7/8"
HDU11	HDU11-SDS2.5	5.5"	30 SDS 1/4 x 2 1/2"	SSTB28	7/8"	24 7/8"

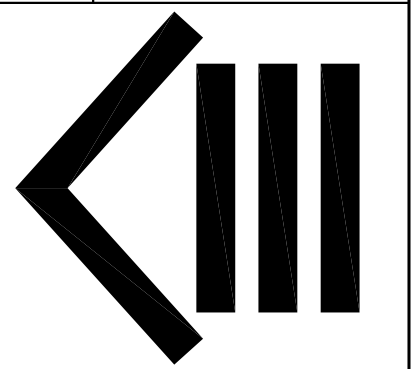
STRAP ANCHOR SCHEDULE

STRAP MARK	MODEL	MIN WOOD POST MEMBER THKNGS	NAILS	MIN LENGTH OF STRAP ON WOOD POST
ST16	CMSTC16	4.5"	(58) 16d	25"
ST14	CMSTC14	4.5"	(66) 16d	30"
ST12	CMSTC12	4.5"	(84) 16d	38"



PREFABRICATED JOIST & HOLD DOWN AND STRAPPING DETAILS

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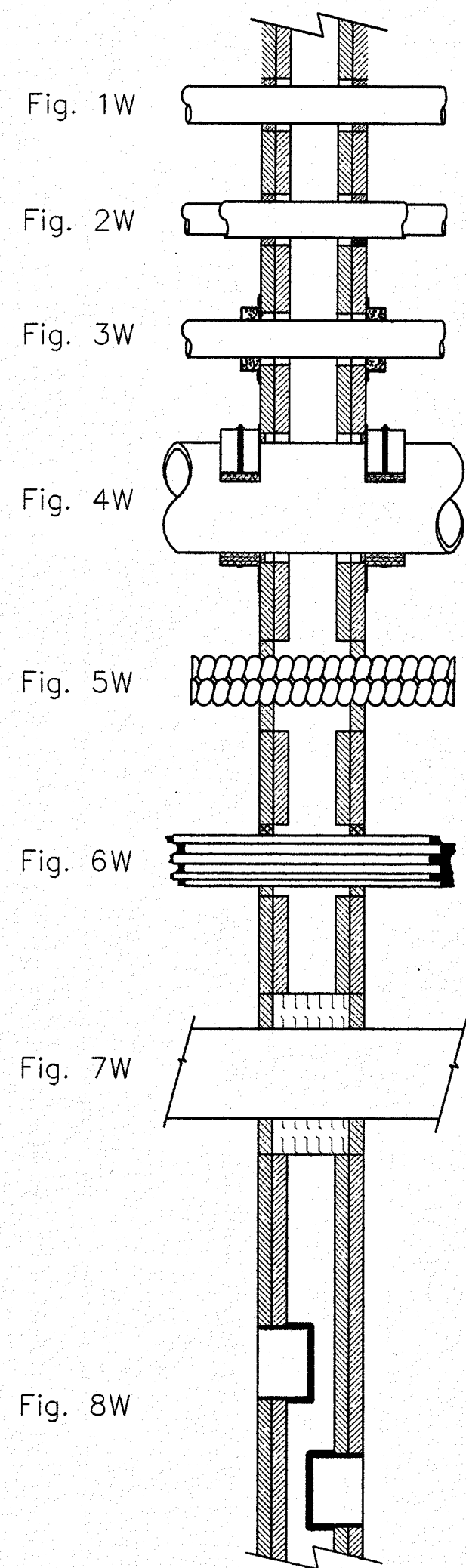
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Revisions:

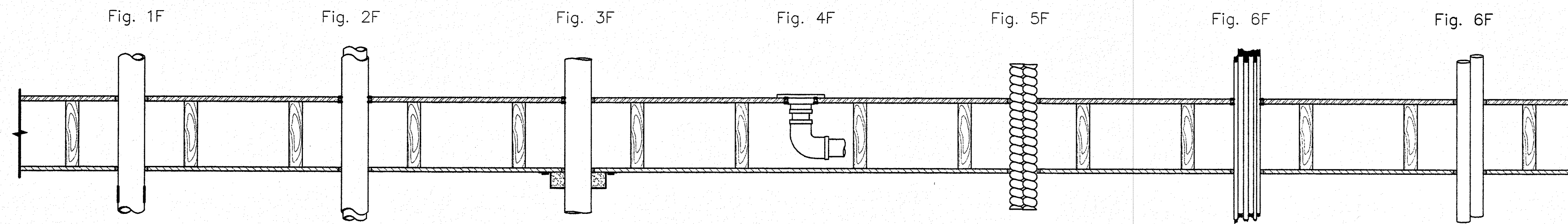
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# WALL PENETRATIONS



# FLOOR PENETRATIONS (L500 SERIES)



PENETRATING ITEM	NELSON PRODUCT	CONSTRUCTION TYPE					
		FIG NO.	L500 SERIES WOOD FLOOR ASSY	FIG NO.	G500 SERIES CONCRETE & MEMBRANE	FIG NO.	GYPSUM WALL
STEEL, CAST IRON, COPPER PIPE OR STEEL CONDUIT	ES1399	1F	F-C-1100/FS-0486	1F	F-E-1007/FS-0409	1W	W-L-1276/FS-0348
	LB93		F-C-1116/FS-0548		—		W-L-1334/FS-0590
FIBERGLASS INSULATED STEEL, CAST IRON, COPPER	ES1399	2F	F-C-5061/FS-0478	2F	—	2W	—
	LB93		F-C-5070/FS-0560		F-E-5007/FS-0566		W-L-5215/FS-0607
AB/PVC INSULATED STEEL, CAST IRON, COPPER	LB93	2F	—	2F	F-E-5007/FS-0566	2W	W-L-5214/FS-0606
	LB93/WR93		F-C-5071/FS-0625		—		—
NON-METALLIC PIPE OR CONDUIT	LB93	1F	F-C-2276/FS-0551		—	1W	W-L-2381/FS-0594
	LB93/WR93	1F	F-C-2293/FS-0623	3F	F-E-2025/FS-0628	4W	W-L-2388/FS-0632
	PCS	3F	F-C-2031/FS-0137		—	3W	W-L-2071/FS-0110
NON-METALLIC PIPE CLOSET, FLANGHE	ES1399	4F	F-C-2278/FS-0553		—		—
	LB93		F-C-2278/FS-0553		—		—
NON-METALLIC TUBING SDR9 (PEX) MULTIPLE	ES1399	4F	F-C-2282/FS-0557		—		—
	LB93		F-C-2282/FS-0557		—		W-L-2383/FS-0596
FLEXIBLE METALLIC CONDUIT (multiple)	ES1399	5F	F-C-1129/FS-0521	5F	—	5W	W-L-1429/FS-0670
	LB93		F-C-1118/FS-0550		F-E-1013/FS-0564		W-L-1429/FS-0670
SERVICE ENTRANCE CABLE ROMEX CABLE COMMUNICATIONS CABLE	ES1399	6F	F-C-3078/FS-0558	6F	F-E-3007/FS-0410	6W	W-L-3270/FS-0649
	ES1399		F-C-3073/FS-0488		F-E-3007/FS-0410		W-L-3270/FS-0649
	ES1399		F-C-3073/FS-0488		F-E-3007/FS-0410		W-L-3270/FS-0649
STEEL DUCT	ES1399	1F	F-C-7020/FS-0408	1F	F-E-7004/FS-0411	7W	W-L-7092/FS-0466
ELECTRICAL OUTLET BOX WALL PROTECTION WHERE NEEDED	F&P PADS		—		—	8W	R10764(CLV)/FS-0671

**Notes:**

1. This drawing provides a condensed list of firestop systems for a variety of through penetration applications. Additional systems are offered by Nelson Firestop Products. These may be accessed on the "Products/Systems" tab at our website at [www.nelsonfirestop.com](http://www.nelsonfirestop.com). See the "Applications/Systems Index".
2. Underwriters Laboratories systems may be accessed at the UL website [www.ul.com](http://www.ul.com) under "Certifications" or more specifically <http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/gothornbr.html>
3. All systems shown are rated minimum 2 hour "F" rating.
4. Nelson Firestop Engineering Tech Support - 800-331-7325

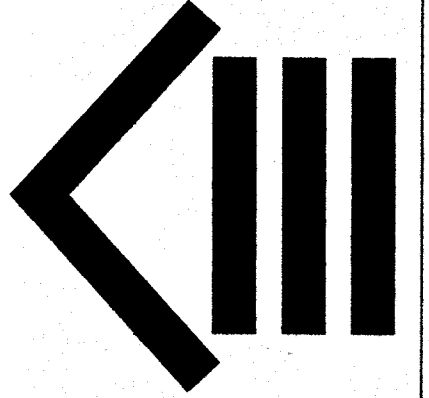
UL System No./Nelson Dwg. No.

FIRESTOP SYSTEM SELECTION  
WOOD FRAME CONSTRUCTION  
NELSON FIRESTOP PRODUCTS

**EGS** PROPRIETARY INFORMATION OF  
Nelson Firestop  
EGS Electrical Group  
TULSA, OKLAHOMA U.S.A.

FIRE STOPPING  
DETAILS

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