### PROJECT DATA

PROJECT LOCATION:

LOT 1 AT FISHER AVENUE, WARRENTON, VA 20186 FAUQUIER COUNTY, VA

CODE OF JURISDICTION:

2021 - VIRGINIA RESIDENTIAL CODE

All construction shall be in conformance with the Virginia State amendments to the International Residential Code (IRC), 2021 edition.

USE GROUP:

R-5 RESIDENTIAL TYPE OF CONSTRUCTION: VB - UNPROTECTED

CLIMATE AND GEOGRAPHIC DESIGN CRITERIA:

FLOOR LIVE LOAD: 40 PSF ROOF LIVE LOAD: 30 PSF SNOW LOAD: 30 PSF WIND SPEED (3 SEC GUST): 115 MPH, EXPOSE C ATTICS W/O STORAGE: 10 PSF 20 PSF ATTICS W/STORAGE: 30 PSF HABITABLÉ ATTICS: 40 PSF 40 PSF DECKS & BALCONIES (EXT.):
GUARD & HANDRAILS: 200# (CONT., ANY DIR) SEISMIC CATEGORY: (LIGHT FRAME STRUCTURAL W/SHEAR WALLS)

CONCRETE WEATHERING: MODERATE TO HEAVY TERMITE INFESTATION: MODERATE DECAY PROBABILITY: ICE UNDERLAYMENT: YES FROST DEPTH: 24"

NOTE: VALUES SHOWN ARE MINIMUM — CONFIRM WITH LOCAL CODE OFFICIAL PRIOR TO CONSTRUCTION

# WESLEY II



### PROJECT TEAM

**OWNER** 

AKESIDE HOMES

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**DESIGNER** 

ALLEN WRIGHT DESIGN, PLLC

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# **ALLEN WRIGHT** DESIG (571) 482-7286



nfo@allenwrightdesign.com

**AVENUE FISHER** AT LO1

SHEET ΕV ER WES 00 ISSUE DATE: 07-22-25

> PERMIT SET Project Info:

BUILDING CODE: 2021 VRC

Revision/Issue

25.219

## REVISION LOG

## **ABBREVIATIONS**

ENG.

**ENGINEERED** 

### NUMBER ΑT **ABOVE** ABOVE FINISHED FLR FLR. AIR HANDLER APPROX. **APPROXIMATE** BLOCK BLOCKING BEAM POCKET BEARING CASED OPENING CEILING

BLKG.

C.O. CLG.

COL.

CONC

CONT

ELEC.

ELEV.

COLUMN CONCRETE CONTINUOUS COURSE DRYER DOUBLE DESIGNED DOUBLE HUNG DIAMETER **DIMENSION** DOWN DOOR

DOWNSPOUT

ELECTRICAL

**ELEVATION** 

EACH

DISHWASHER

EXT. EXTERIOR FLOOR BREAK FIREPLACE FOOT **FOOTING** FTG. **FURNACE** GYPSUM BOARD HDR. HEADER HEIGHT HARDWARE HVAC & AIR CONDITIONING INTERIOR INSULATION LAUNDRY TUB LAMINATED VENEER LUMBER MASTER BATH MANUFACTURER MAXIMUM

MINIMUM

**OVERHANG** 

POLYETHYLENE

PREFABRICATED

PRESSURE TREATED

PROJECTION

POWDER

OPTIONAL

POLY.

PREFAB.

PWDR.

S.F. HEATING, VENTILATION, UNO WD. WIN. MECHANICAL

RISER RETURN AIR REFRIGERATOR REINFORCED REQUIRED ROOM SQUARE FOOT/FEET SLIDING GLASS DOOR SHELVES SHLVS. STAGGERED STANDARD SYNTHETIC TYP. TYPICAL UNLESS NOTED OTHERWISE WASHING MACHINE WOOD WATER HEATER WINDOW W.O.

WALL OPENING

(300)

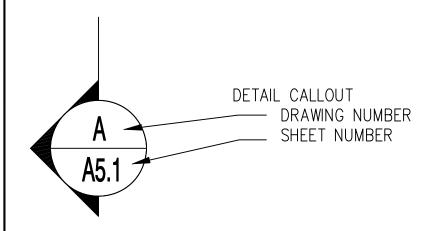
HIGH 6"

ENGINEERED BEAM NUMBER - FIRST NUMBER IS LEVEL OF BEAM, 1-BASEMENT LEVEL, 2-FIRST FLOOR SYSTEM, 3-FIRST FLOOR, 4-SECOND FLOOR SYSTEM, 5-SECOND FLOOR, 6-ROOF

DRAIN LOCATION (TOILETS, SHOWERS)

WALL STUD (SIZE DEPENDS ON WALL THEREIN)

CHANGE IN HEIGHT STEP IN CEILING/FLOOR/COUNTERTOP



## **BUILDING DATA**

58'-0" X 64'-0" MAIN HOUSE - BASEMENT: SQUARE FOOTAGES

FIRST FLOOR SECOND FLOOR	2,238 SQ. FT. 639 SQ. FT.
ABOVE GRADE FINISHED TOTAL	2,877 SQ. FT.
FINISHED BASEMENT	1,260 SQ. FT.
FINISHED TOTAL	4,137 SQ. FT.
UNFINISHED BASEMENT	994 SQ. FT.
GARAGE	500 SQ. FT.
UNFINISHED TOTAL	1,494 SQ. FT.

5,631 SQ. FT. GROSS TOTAL

FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS HOUSE WERE MADE BASED ON PLAN DIMENSIONS ONLY AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE HOUSE BUILT

## MECHANICAL REQUIREMENTS

WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH IRC SECTION M1507.3

DRAWN BY:

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# **SYMBOLS**

1.01 CODES AND STANDARDS

The following codes and standards, including all specifications referenced therein, shall apply to the design, construction, quality control and safety of all work relevant to the project. Use the latest editions unless noted otherwise.

2021 Virginia Residential Code (VRC)

2021 Virginia Uniform Statewide Building Code (VUSBC) American Socitey of Civil Engineers 7—16 (ASCE)

2018 International Design Specifications for Wood Construction (NDS)

American Concrete Institute 332-14 (ACI332) American Concrete Institute 318-14 (ACI318)

American Concrete Institute 306-10 (ACI306) 15th Edition of the American Institute of Steel Construction (AISC) American National Standards Institute/Truss Plate Institute 1—2014

(ANSI/TPI) American Welding Society 1.1—92 (ANSI/AWS)

1.02 CONSTRUCTION METHODS AND TECHNIQUES

The architect is not responsible for construction means, methods, techniques, procedures, or for safety measures in connection with the work, and shall not be subcontractors or anyone performing the work, to carry out the work in accordance with the contract documents.

1.03 FIFLD CONDITIONS AND DIMENSIONS

On—site verification of all dimensions and conditions shall be the responsibility of the general contractor and his contractors. Noted dimensions take precedence over scaled dimensions. Architect shall be notified promptly of any discrepancies in information and of any discrepancies between field conditions and information on the drawings prior to construction.

1.04 TYPICAL CONDITIONS The general notes and typical details apply throughout the job

unless indicated otherwise. Where conditions are not specifically shown or detailed, the character and quality of the work shall be the same as that indicated for similar conditions. 1.05 DRAWING COORDINATION

The contractor shall coordinate and compare all drawings between the different consultants and trades and shall promptly notify the architect of any discrepancies which may be found.

1.06 STRUCTURAL NOTES In case of any discrepancies between the architectural notes and notes on the structural drawings, the structural notes shall take

1.07 TEMPORARY BRACING

Use temporary bracing as required to stabilize foundation and basement walls and superstructure until permanent construction is in

1.08 DESIGN LOADS AND DEFLECTION CRITERIA

LIVE LOAD: Roof live load

40 PSF Cd: 1.25 20 PSF Cd: 1.00 Attic live load w/storage Attic live load w/out storage 10 PSF Cd: 1.00 40 PSF Cd: 1.00 Floor live load +15 PSF Cd: 1.00 Soak/whirlpool baths

+5 PSF

115 MPH

DEA<u>D LOAD: (Cd: 0.90)</u>

Soak/whirlpool baths

17 PSF Roof dead load 12 PSF Floor dead load • Ceramic tile/marble/granite counters +15 PSF

WIND LOAD: (Cd: 1.60) 3 second gust • Exposure category

 Importance factor Building category ENCLOSED Enclosure classification

<u> SNOW LOAD: Cd: (1.15)</u> Ground snow load

Building category

30 PSF Deck live load 60 PSF 100 PSF Balcony live load Exposure category Importance factor

MANUFACTURED ROOF TRUSS DEFLECTION CRITERIA: LL/360

MANUFACTURED FLOOR DEFLECTION/SPACING CRITERIA:

TL/180

LL/240

BEAM DEFLECTION CRITERIA: LL/360

LL/240

STRUCTURAL MEMBER SUPPORTING MASONRY DEFLECTION CRITERIA:

1.09 Mechanical units and any other equipment with weights shown in plan and supported by the structure were considered in the design of the structure. Any additional equipment not shown on structural drawings and having a weight in excess of 400 pounds shall be brought to the attention of the structural engineer prior to installation

1.10 The basic stability of the structure is dependent upon the diaphragm action of floors, walls & roof acting together. Contractor to provide all guys, braces, struts, etc. as required to accommodate all live, dead, and wind loads until all final connections between these elements are made.

1.11 PRODUCT LITERATURE AND MANUFACTURER'S RECOMMENDATIONS

Comply with the manufacturer's or fabricator's instructions or recommendations for the preparation of substrates and installation and use of material.

1.12 SOIL TREATMENT FOR TERMITE CONTROL(IF APPLICABLE) Apply toxicant to soil in entire area to be occupied by structure and to 2' beyond perimeter line of structure. Use approved toxicant with a five-year guarantee. 1.13 FIRE RATED ASSEMBLIES

It is the responsibility of the general contractor and his subcontractors to verify and construct all rated assemblies to comply exactly with the requirements of the test reports listed. The architect shall be notified promptly of any change in materials prior to construction, and any change in materials must have the prior approval of the architect. All fire rated assemblies are continuous unless otherwise noted. Assembly materials shall take precedence over materials specified in these drawings. 1.14 RADON TESTING

Contractor to provide the following passive radon mitigation

1.— All sub—stab 6 mil. vapor barrier to be double lapped 6" min. 2.— All perimeter basement slab joints & penetrations to be sealed with 25 yr. rated radon caulking

3.— Compression sealed sump crock w/ metal lid & space for 4" passive flue pipe vent thru roof to outside air.

1.15 Mechanical/Plumbing/Electrical contractors shall be required to seal all horizontal and vertical penetrations in the exterior wall caused by their trade.

1.16 All sheathing penetrations caused by erection shall be patched and repaired according to manufactured specifications. 1.17 Details of construction of any retaining wall built must be submitted to the office of the building inspector for approval prior to construction, if applicable.

1.18 Crawl space shall be provided under floor joist not less than 18" in depth and such space shall be vented with screened openings and have a clear area of not less than one—third (1/3) of one (1)percent of the enclosed building area. (If applicable)

1.19 General contractor is responsible to locate and provide necessary structural, mechanical, electrical and plumbing sleeves, anchors, vent opening, etc., that might be required. 1.20 Basement and foundation walls are dependent upon the completed installation of floors for their stability. Contractor shall not place backfill until these elements are completely installed, or contractor must provide shoring and bracing.

2.0 SITE WORK

2.01 These drawings do not cover site work, excavation, and landscaping. Basic grading elevations are shown based off spot elevations provided by the civil engineer. Refer to the site drawings prepared by the civil engineer for further information and

2.02 EXCAVATION — shall be sufficient to provide full design dimensions or to allow for forming as required. No footings shall be placed on frozen earth. No footings shall be placed on soft

2.03 BACKFILL AND COMPACTION - Use only clean, well-graded earth containing no organic material, trash, muck, roots, logs, stumps, concrete, asphalt or other deleterious substances. Backfill shall be compacted to 95% of maximum density as determined by the ASTM D698 standard proctor test. Do not backfill against masonry walls until super structure is in place. Prior to placing fill, the existing surface shall be cleared of all refuse or organic materials. Place and compact backfill so as to minimize settlement and avoid damage to the walls and waterproofing and other work in place. Building official shall determine whether soil test is required. If required soil fill material must be approved by soils engineer prior to placement. Equivalent fluid pressure of soil backfill not to exceed 60 P.C.F. uniform class SM or better.

2.04 FOUNDATIONS — All foundations are to be placed on undisturbed or compacted soil not less than 2'-0" below grade unless otherwise noted on the drawings. Maintain 1:2 slope (vertical to horizontal) from bottom edge of footing to bottom of any adjacent foundation. Soil bearing valued assumed to be 2,000 PSF minimum unless otherwise noted on drawings. Architect/Engineer to be notified immediately should insufficient bearing capacity of high water table be encountered.

2.05 INSPECTIONS — Footing excavation shall be inspected by the building official prior to the placing of any concrete. The building official shall be given notice for this inspection.

2.06 SOIL INVESTIGATION AND REPORT - All earthwork, compaction and foundation work shall be done in accordance with the soils investigation report which shall be provided by the owner. Notify architect if on—site test bearing indicates lesser values before proceeding with the work. Soil values to be determined by a registered engineer experienced in soils engineering.

2.07 DRAINAGE OF FOOTINGS — Unless otherwise noted, provide perimeter basement walls with 4" diameter drain tile laid on 2" gravel base with 6-8" gravel cover, with joints covered with filter cloth for perforated tile. Slope drain tile as required to drain to storm sewer or outfall. 18" gravel all around foundation.

2.08 WATERPROOFING FOR CONCRETE AND MASONRY FOUNDATIONS — Exterior foundation walls of masonry construction enclosing basements shall be damp proofed by applying not less than 1/2" of portland cement parging to the wall from footing to finish grade. The parging shall be covered with coat of approved bituminous material applied at the recommended rate. Exterior foundation walls of concrete construction enclosing basements shall be damp proofed by applying a coat of approved bituminous material to the wall from the footing to the finish grade at the recommended rate. Foundation walls of habitable rooms located below grade shall be waterproofed with membranes extending from the edge of the footing to the finish grade line. The membrane shall consist of either 2-ply hot mopped felts, 6-mil polyvinyl chloride, 5—pound roll roofing or equivalent material. The laps in the waterproofing membrane shall be sealed and firmly affixed to

exposed to weather to be air entrained.

3.01 CONCRETE - Shall reach minimum compressive strength of (Fc)(see table below). All concrete to be poured in accordance with ACI 318—14. Concrete

MINIMUM SPECIFIED COMPRESSIVE STRENGTH TO CONCRETE

Type or location Minimum Specified Compressive of concrete construction Strength (Fc) Severe Weathering Potential Basement slabs and interior slabs on grade, except garage floor slabs Basement walls, foundation walls, exterior 3,000 (2) walls, and other vertical concrete work exposed to the weather. Porches, carport slabs and steps exposed 3,500 (2) to the weather, and garage floor slabs.

(1) Concrete in the locations which may be subject to freezing and thawing during construction shall be air—entrained concrete in accordance with footnote 4

concrete) shall be not less than 5 percent or more than 7 percent. Use of additives shall not be permitted unless specifically approved by the structural engineer. Use of additives containing calcium chloride shall not be

(2) Concrete shall be air—entrained. Total air content(percent by volume or

3.02 REINFORCING RODS - Shall conform to ASTM A-615 grade 60 WWF shall conform to ASTM A-185. MESH 6x6 drawings. Placing plans and shop fabrication details shall be in accordance with the manual of standard practice for detailing reinforced concrete structures". Furnish support bars and all required accessories in accordance with C.R.S.I. standards.

All reinforcing steel marked "continuous" shall be lapped 36 bar diameters at places and around corner or intersection with a standard 90 degree bend on corner bars. Lap welded wire mesh one full mesh at side and end laps.

3.03 SLABS ON GRADE — 3 ½" thick with WWF placed midway in slab thickness, slabs poured on 6 mil poly. Film vapor barrier on minimum 4" gravel. Overlap joints of barrier 12". Seal or tape penetrations by plumbing and avoid puncturing of film. Seal edges to foundation walls. 3.04 COMPACTION — Provide 95% compaction at all slabs and footings. All

compaction shall be verified through in—place density tests by a qualified soils engineering consultant 3.05 FORMWORK — To be well braced, true to dimension, level and plumb.

3.06 Provide clear distance to outermost reinforcing as follows: Provide

1-1/2" to ties 2" to outside face, 1-1/2" to inside face Garage slab beams:

(See structural also for placement locations)

concrete protection for reinforcing as follows:

3.07 Not less than #5 bars shall be provided around all window and door openings. Such bars shall extend at least 24 inches beyond the corners of opening. (if applicable)

3.08 The sills of door openings between the garage and adjacent interior spaces shall be raised not less than 4" above the garage floor. Garage slabs shall be structural when fill exceeds 8".

### 4.0 MASONRY

loading conditions

4.01 CONCRETE MASONRY UNITS (CMU) - To be ASTM C-90, grade A for load bearing masonry. Solid block ASTM C-145 grade B. Minimum net compressive

1" to top, 3" to bottom

4.02 MORTAR TYPE - To be ASTM C-270 type compressive strength 2,000 PSI. 4 0.3 MASONRY REINFORCEMENTS

A. Horizontal reinforcements — duro wall at 16" O.C. vertically (no reinforcing required on walls less than 4 courses high).

B. Unless otherwise noted. 12" masonry foundation walls shall be reinforced as follows if applicable for 8'-0" from slab to underside of joist (H):

- Exterior grade = H to .75H.....#4 @ 24 - Exterior grade = Less than .75H.....None

 For 9'-0" from slab to underside of joints (H): - Exterior grade = H to .75H.....#6 @ 32

- Exterior grade = .75H to .50H.....#5 @ 48 - Exterior grade = Less than .5H.....None

Exterior grade = Less than .50H.........#4 @ 48\*

- For 10'-0" From slab to underside of joists (H): - Exterior grade = J to .75H.....#5 @ 8 Exterior grade = .75 to .50H.....#5 @ 32

\*Alternately grout wall solid with no reinforcing.

Provide dowels from all footings to masonry walls to match size and spacing of all vertical reinforcing. Grout all reinforced cores solid. 4.04 PARGING — 1 coat portland cement above grade — below grade see 2.08. 4.05 SOLID MASONRY — Provide minimum 8" deep below all concentrated

Top Courses of block foundation walls shall be filled or solid including the courses under any steel beam.

4.06 BRICK LINTELS — Brick lintel shall be installed in accordance with specifications below, u.n.o. Steel lintels to be min. 36 ksi. Lintel must have corrosion resistant coating of epoxy based paint. Lintels greater than 8' must be laterally supported at max. 6' o.c. with (1) 1/4"x3" wood screw into the header. provide a 1" vertically slotted hole for the screw.

Brick lintel installation specifications Minimum bearing Lintel dimension Maximum total span 3"v x 3-1/2"h x 1/4"t 4"v x 3-1/2"h x 1/4"t 6" (inches) 8' (feet) 5"v x 3-1/2"h x 1/4"t 6" (inches) 6"v x 3-1/2"h x 1/4"t 12' (feet) 6" (inches) 7"v x 4"h x 1/2"t 6" (inches) 16' (feet)

horizontal ties @ 24" O.C. Flash at base and provide weep tubes or wicks at 16" o.c. or open head joints at 24" o.c. 4.08 TRUE STONE MASONRY - 5" stone veneer, color as selected by architect. 4.09 APPLIED STONE VENEER — 2" stone veneer, applied per manufacturer's

4.07 MASONRY VENEER CONSTRUCTION — To have vertical ties at 16" O.C. and

#### 5.0 METALS

5.01 FOUNDATION ANCHOR BOLTS — Shall be provided at maximum 6'-0" O.C. intervals and placed 12" from the end of each section with minimum two anchor bolts per section of wall. Anchor bolt shall be minimum 1/2" diameter and shall be embedded in foundation in depth minimum 8" of poured in place concrete and not less than 15" in grouted unit masonry. Anchor bolt can be substituted with metal strap per manufacturers specifications. All bearing plates shall bear on minimum 8" deep solid masonry.

5.02 STEEL - A) All metal anchors, fasteners, joist hangers, etc to be galvanized. All structural steel to conform to ASTM-36. Pipe to be A53. Tube to be A500 or A501. Detailing to be accordance with AISC structural steel detailing manual. Connections shall be capable of supporting allowable uniform load stress of 24 KSL. Bolted field connection shall be 3/4" diameter high strength bolts meeting ASTC spec. A-3254. Bolted joints to be bearing type using the turn—of—the—nut method of tightening. Except add hardened washer under turned element.

B) Submit complete shop and erection drawings for approval prior to fabrication and erection.

C) All welders shall be certified in accordance with the American Welding Society. All welding electrodes, machines, etc., shall be compatible with the type of steel being welded.

5.03 Provide galvanized metal—let in bracing at all exterior corners of frame walls (Note: May delete with structural grade sheathing). 5.04 NAILING SCHEDULE - As per IRC and other applicable building codes, or manufacturers recommended standards but not less than that required by code.

5.05 Provide base plate for all structural steel beams bearing on masonry. 5.06 Holes shall not be cut through beams unless indicated or approved by engineer. Provide standard angle wall anchors for a beam resting on masonry.

#### 6.0 WOOD

6.01 SILL PLATE - Plate treated to meet American Wood Preserves Institute Standard LP-2 or LP-4 where indicated on plans. Bolts shall be 1/2" diameter at 6' 0.C. 7" into concrete not more than 12" from corner 6.02 ALL EXPOSED EXTERIOR LUMBER or lumber in contact with masonry or concrete shall be pressure preservative treated in accordance with industry standards. Provide fire retardant sheathing and lumber where indicated on

6.03 MAXIMUM MOISTURE CONTENT - Of all lumber shall be 19%. Lumber may be kiln dried but drying process must be regulated to cause a minimum amount of cheching and kiln dried lumber shall be comparable to air dried stock.

6.04 STRENGTH OF FRAMING MATERIALS - All framing lumber shall be hem fir, grade 2 or better, having the following minimum properties.

A. —Bending stress "Fb" = 850 PSI for single member use -Bending stress "Fb" = 975 PSI for repetitive member use -Horizontal shear "Fv" = 75 PSI -Compression perpendicular to grain "Fc" = 405 PSI -Compression parallel to grain "Fc11" = 875 PSI -Modules of elasticity "E" - 1,400,000 PSI

B. All structural posts shall be southern yellow pine grade 2 or better, having the following minimum properties.

-Bending stress "Fb" = 1200 PSI for single member use -Bending stress "Fb" = 1400 PSI for repetitive member use -Horizontal shear "Fv" = 90 PSI -Compression perpendicular to grain "Fc" = 565 PSI -Compression parallel to grain "Fc11" = 1000 PSI -Modules of elasticity "E" - 1,600,000 PSI

C. Plywood laminated (LVL) beams shall have the following minimum properties.

-Shall be 1-3/4" -Bending stress "Fb" = 2800 PSI -Horizontal shear "Fv" = 285 PSI -Tension parallel to grain = 1850 PSI -Compression perpendicular to grain = 500 PSI -Compression parallel to grain - 2700 PSI

-Prefabricated structural timber beams shall conform to one of the

Microlam (ML) - NRB-126 Parallam (PI) - NFR-292 ASI - BOCA 82-47 SBCCI-8302 KBO 4035 GNI - BOCA-85-5 SBCCI-8525 HUD #SEB-1091

D. Cutting and notching of floor joists shall conform to the following, or per

manufacturers specifications. -Notch depth in the top or bottom of the joists and beams shall not exceed one-sixth the depth of the members and shall not be located in the middle one—third of the span (including bird mouth cuts).

-Notch depth at the ends of the member shall not exceed one-fourth the depth of the member.

—The tension side of beams, joists and rafters of four inches or greater nominal thickness shall not be notched, except at ends of members. -Holes bored or cut into joists shall not be closer than two inches to the

one-third the depth of the joists. E. Stress grade lumber shall be clearly stamped with the lumber inspection association seal showing the stress grade. All fabrication, erection and other procedures shall conform to the current "national design specification for stress

top or bottom of the joists. The diameter of the hole shall not exceed

grade lumber and its fastenings. F. Prefabricated timber shall be installed and braced per manufacturers recommendation. Timber member shall not be cut or drilled unless so authorized

G. Where double members are indicated on the drawings, mechanically fasten both members in a manner such that both members share the superimposed loads, including loads from headers.

6.05 WOOD FLOOR AND ROOF TRUSSES — Shall be designed and fabricated by the truss manufacturer and shall comply with the national design specification for stress grade lumber and its fastenings. Submit shop drawings and calculations sealed by the P.E., the jurisdictional plan reviewer as required by government

The design and detail of all trusses shall meet the requirements of F.H.A. G4541.1 design criteria for trussed rafters the "National specification for stress grade lumber and its fastenings," and all applicable building codes. Manufacturer must be a "TPI" (Truss Plate Institute member).

6.06 WOOD STUDS — At bearing wall to be 2x4's at 16" O.C. except at grade floor bearing wall of buildings more than two stories high shall be 2x4's at 12" O.C. Where height of stud wall exceeds 10'-0" provide 2x6's at 16" O.C. See plans for stud sizes and spacing at walls, — typical. All bearing partitions to be braced midway between all stories. Wall studs to be SPF stud grade or better, having the following minimum properties: Compression parallel to grain Fc = 425 PSI Fb rep = 650 PSI, E = 1,200,000. Holes bored in bearing wall studs shall not exceed 1/3 of stud width.

Whatever height of stud wall exceeds 10'-0", in addition to providing 2'x6' at 16" O.C., studs shall extend continuously, in one piece, to full height of the wall unless noted otherwise

6.07 WOOD JOISTS - Shall have a minimum bearing of 1 1/2". Wood floor trusses to have minimum bearing as per manufacturers recommendations. Al joists and rafters to be bridged midway at intervals of 8'-0" max. All rafters and trusses shall be connected at bearing points with one prefabricated galvanized metal connector, minimum 18 ga., with capacity to resist 450# loading unless shown otherwise on drawings.

A. Prefab joists and beam hangers shall be sized and attached for manufacturers recommendations. Holes through wood 1's shall not exceed manufacturers recommendations. No cuts or holes are allowed through top or

Wood floor joists shall be per depth and spacing shown on drawings. Supplier shall confirm that members provided can carry the loading designated in

Provide 2-3/4" exterior plywood bands at all perimeter bearing walls. Provided squash block and stiffeners as required to distribute loading and shear reinforcing as required at concentrated loads.

Bearing studs should be at 16" O.C. with 2 top plates, and care shall

inches of the studs beneath. Provide solid blocking at 1'-0" O.C. between band and joist and first

be exercised to ensure locating supported floor joists or roof trusses within 5

interior parallel joist. All prefabricated trusses and truss joists shall be designed for the following loads unless noted otherwise:

> Snow load/Live load-30PSF Dead load top chord-7PSF Dead load bottom chord-10PSF Floor: Live load-40PSF

Dead Ioad-15PSF

Submit shop drawings and calculations for review. Affix seal of engineer registered in the state of the proposed project.

Prefabricated truss joists shall be designed to resist the loading shown with a maximum liveload deflection of 1/480 of the span.

6.08 All lintels over all framed openings to be shown below unless noted otherwise:

2 - 2x8 - Openings up to 4'-6" 2 - 2x10 - Openings up to 5'-6"2 - 2x12 - Openings up to 7'-0"

6.09 PLYWOOD — All plywood used structurally shall meet the performance standards, and all other requirements of applicable U.S. commercial standards for the type, grade and species of plywood and shall be so identified by an approved testing agency.

FIRE RETARDANT TREATED PLYWOOD AND DIMENSIONAL LUMBER - (Where applicable). If fire retardant treated plywood is applied to a structure, (fire retardant plywood must be applied 4'-0" to either side of fire walls or party walls unless noted otherwise) it is to be accompanied by certification that acid hydrolyses will not occur in the product at temperatures below 400 Fahrenheit this certification must come from the manufacturer and be approved by a certified testing agency and local building officials.

6.10 PLYWOOD — Subfloor to be 3/4" T and G plywood standard sturd—I—floor F.F.I.S., unless otherwise noted. Roof deck -1/2" C-D-X - D.F.P.S. with

exterior glue unless otherwise noted. Direct bearing at all edges, glued and

nailed. All end joints shall be staggered. The face grain of the plywood shall be

laid at right angles to the joists and trusses and parallel to the studs use plywood clips with 1/2" roof plywood (if applicable). 6.11 All wood blocking, nailers, etc. shall be attached to steel or concrete framing with power activated fasteners or 3/8" diameter bolts unless noted otherwise. Fasteners shall be spaced at 24" maximum O.C. and shall be staggered. Fasteners shall have a minimum capacity of 100 pounds in shear and

pullout unless noted otherwise. 6.12 INTERIOR TRIM — Windows, door and bases may be finger jointed, 2—1/2" traditional profile or as indicated on drawings.

6.14 SHELVING -3/4" filled flakeboard with taped front edge, ship and metal brackets, 42" O.C., Max., unless indicate otherwise on drawings or vinyl wrap wire shelving as selected by builder (owner). 6.15 Railings or handrails shall be installed on any exterior porch or stair

6.13 INTERIOR STAIRS — Prefab wood unless noted otherwise.

exceeding 3 risers in height or 24" above grade. 6.16 HANDRAILS — At stair (if applicable) 34" height measured vertically from the nosing of the tread. 6.17 GUARDRAILS — Not less than 42" height measured vertically, except for

buildings of use group R—3 shall be not less than 36". Construct such that a sphere with a diameter of 4" cannot pass through any opening.

7.0 THERMAL AND MOISTURE PROTECTION 7.01 SILL SEAL -1/2" x3-1/2" compressible fiberglass beneath all exterior sill

7.02 INSULATION: UNFINISHED BASEMENT WALLS - Continuous (Perf.) R-11

Insulation, or R-13 fiberglass batt cavity insulation 7.021 WALLS — R-15, 535/8" batt insulation with draft paper face vapor barrier, min., unless otherwise noted.

7.022 CEILINGS AT ROOF - R-49 fiberglass batt with draft paper face vapor barrier, or blow insulation, R-49 min 7.023 CRAWL SPACES — and other floors exposed to unheated spaces below, R—19 fiberglass batt with draft paper vapor barrier. Bay Window Floor—R—30 7.024 PERIMETER SLAB — insulation to be rigid exterior grade, min. R—10

extruded polystyrene closed cell. 7.025 VAPOR BARRIERS — to face warm side of space (interior) unless noted otherwise on drawings.

extending 2'-0" vertically and 2'-0" horizontally, min. perimeter insulation to be

7.031 SHINGLES - 235# or 215/fiberglass shingles class 'c' or better on #15 roofing felt on slopes of 4" to 12" or greater. On slopes less than 4" to 12" but greater than 2" to 12" provide double coverage asphalt/fiberglass shingles on two layers 15" roofing felt. Shingles shall be installed per manufacturer's specifications and applicable building codes.

7.032 VALLEY FLASHING - Open valleys shall be flashed with min. No. 28 gauge galvanized corrosion—resistant sheet metal and shall extend min. 8" from center line each way. Closed valley flashing shall be 2 layers 90# mineral surfaced cap sheet with bottom layer minimum 12" wide and top layer 24" wide, cemented together. Closed valleys may also be of 36" wide foil roofing material not less than No. 50 in valley over the underlayment.

7.033 RIDGE—FLASHING — Install as per manufacturers specifications. 7.034 ROOF EDGE - Provide non-corrosive aluminum drip edge flashing at

7.035 BUILT UP ROOFING — To be as detailed on drawings and installed as per manufacturers specifications. 7.040 Roofing and sheet metal installation shall be in accordance with

standards and details established by the Sheet Metal and Air Conditioning

Contractors National Assoc., Inc. "SMACNA" — refer to 4th Editions, 1987 for specific detail installation. 7.041 FLASHING — To be non corrosive aluminum provided at tops and sides of all exterior window and door openings in such a manner to be leakproof. 7.042 FLASH AND COUNTER FLASH - All roof to wall conditions, minimum No.26 U.S. gauge corrosion resistant aluminum step flashing as required to

7.044 FLASH AND CAULK wood beams and other projections through exterior walls or roof surfaces.

7.045 EXTERIOR SHEATHING - 1/2" OSB. sheathings installed per

maintain min. height.

manufacturers specifications unless noted otherwise on drawings. 7.045A Lateral bracing requirements (per local building code requirements) Provide lateral bracing on both sides of the fire wall (typical). 1. Wood let-in and/or steel let-in (as approved). Brace at corners both directions and at intervals along the wall as required by the building code.

the wall as required by the building code. 3. Approved structural grade sheathing to include 1/2" CDX plywood, 5/8" OSB, or other approved material. 7.046 CAULKING/SEALANT as selected by builder (owner) — submit product literature to architect for approval.

2. 4'-0" plywood panel at corners, both directions and at intervals along

(both vertical and horizontal) in the following locations: 1. In exterior or interior stud walls, at ceiling and floor levels and so placed that the maximum dimensions of any concealed space is not more than 10'.

7.05 FIRESTOPPING — Shall be provided to cut off all concealed draft openings

3. Spaces between chimneys and wood framing shall be filled with loose non combustible material (2" min. thickness), placed in non supports tightly fitted to

2. Between stair stringers at top and bottom and between studs in line with

4. Other locations not mentioned above such as holes for pipes, sleeves, behind framing strips and other similar places which could afford a passage for 7.051 FIRESTOPS - When of wood, shall be min., 2" nominal thickness and may also be made of gypsum board, mineral wood or other non combustible material. For penetrations and surrounds for piping or cable, etc., Grabber EFC Endothermic Fire Caulk or industry equivalient will be used. 7.052 DRAFTSTOPPING — Provide draft stopping where required in accordance

with applicable codes. 7.06 SIDING — To be as called for on drawings and installed as per manufacturer's specifications.

7.07.1 Roof Spaces: Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters, shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain and snow. The openings shall be covered with corrosion esistant mesh not less than 1/8" (3mm) nor more than 1/4" (6mm) in any

7.07.1.1 Ventilating Spaces: The minimum required net free ventilating area shall be 1/150 of the area of the space ventilated, except that the minimum required area shall be reduced to 1/300 where at least 50 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm) above eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. 7.07.2 Crawl Spaces: Crawl space areas, other than those used as an under floor plenum, shall be ventilated by an approved mechanical means or by openings in exterior foundation walls. Openings shall be located as close to corners as practicable and shall provide cross ventilation on at least two approximately opposite sides. The openings shall be covered with corrosion mesh not less than 1/8-inch (3mm) nor more than 1/4-inch (6mm) in any direction.

7.07.2.1 Opening Size: Openings shall have a net area of not less than 1 square foot (0.093 m2) for each 150 square feet (13.95 m2) of foundation

7.08 GUTTERS AND LEADERS (If applicable) Pre finished aluminum lead to splash 7.09 All wood shall be minimum 8" above finish grade or pressure treated less than 8" above finish grade. All siding shall be minimum 6" above finish grade. 7.10 FLASHING — When veneer of brick, clay tile, concrete or natural or artificial stone are used 20 mil plastic flashing shall be attached to the sheathing wherever necessary to prevent moisture penetration behind the veneer. 7.11 Rough carpentry contractors shall seal with construction adhesive, plates at floor and ceiling, and caulk all window and door flanges/jambs and all panel butt joints prior to and during erection.

7.12 All pipes, ducts, vents, wiring, and chases which penetrate ceilings directly below a truss or roof assembly shall be firestopped.

8.0 DOORS AND WINDOWS

8.01 DOORS - Specified by builder.

8.02 EXTERIOR ENTRANCE DOOR -1-3/4" solid wood core. See drawings for raised panel design. Provide complete weather stripping and metal threshold. 8.03 PATIO DOORS -1-3/4" Solid Wood Core. Low E, Tempered Glass. See

drawings for glass design. Provide complete weather stripping and metal

8.04 GARAGE TO UNIT DOORS -B-label steel with 20 min. (minimum)

8.05 INTERIOR DOORS - Solid Wood or Hollow Core Wood with wood veneer. 8.06 DOOR SIZES - Refer to door schedule.

8.1 WINDOWS - Default is Vinyl frame, double hung, double paned, Low E, with Argon, u.n.o. All windows shall have a maximum U-factor of .30 and a maximum SHGC value of .40 in accordance with Table 1102.1.2

8.11 GENERAL — Glazing in locations subject to human impact such as entry doors and sidelights, sliding glass doors, shower doors, tub enclosures and storm doors shall be fully tempered in accordance with the IRC code. Fixed panels with area in excess of 9 sq. Ft. with the lowest edge less than 18" above the finished floor or walking surface within 36" of such glazing unless a horizontal member not less then 1-1/2" width located between 24"

the IRC for exceptions to hazardous locations (If applicable). 8.12 WEATHER PROOFING - All sliding, swinging doors, and windows opening to the exterior shall be fully weather-stripped, caulked, gasketed or otherwise treated to limit air infiltration. Provide maximum air infiltration as follows:

and 36" above the walking surface shall be fully tempered. See

1. Windows shall have an air infiltration rate of less then 0.5 CFM per foot of such crack. 2. Sliding glass doors shall have an air infiltration rate of less than 0.5 CFM per square foot or door area, or 3. Swinging doors shall have an air infiltration rate of less

then 1.25 CFM per square foot of door area.

8.13 EMERGENCY EGRESS — Every sleeping room below the fourth story shall have at least one operable window or door for emergency egress or rescue. Egress windows shall have a maximum sill height of 44" above finished floor and shall have a minimum net clear opening of 5.7 Sq. Ft. with a minimum clear opening height of 24" and minimum opening width of 20". Grade floor windows may have a minimum net clear opening of 5 sq. ft.

8.14 ALL OPERABLE WINDOWS — Shall have non corrosive screens and sash locks.

9.0 FINISHES

framing members.

9.01 GYPSUM WALLBOARD - Shall be installed in accordance with U.S. gypsum recommendations and shall meet the requirements of IRC and other applicable codes. Typical interior partitions to have 1/2" tapered edge taped and finished. Provide 5/8" type "X" fire—rated gypsum board at walls & ceilings where called for on the drawings.

9.02 GYPSUM WALLBOARD — Shall not be installed until weather protection for the installation is provided. 9.03 SUPPORT — All edges and ends of gypsum board shall

9.04 MOISTURE-RESISTANT GYPSUM BOARD - Provide moisture resistant gypsum board at all tub/shower locations in bathrooms and wherever moisture conditions can exist. 9.05 CERAMIC TILE — Ceramic tile shall be glazed tile, thin set application on water-resistant drywall. Provide base and

miscellaneous trim. Tile color as selected by owner. Provide

marble threshold for transition between ceramic floor tile and other

occur on framing members except those edges perpendicular to

floor finishes. Floor tile shall be non slip. Grout — Commercial waterproof grout cement.

9.06 RESILIENT FLOORING - Shall be sheet vinyl or vinyl composition tile installed as per manufacturer's specifications. 9.07 UNDERLAYMENT — Provide suitable floor underlayment for all ceramic tile and resilient flooring.

9.08 PAINT INTERIOR — Default values below, can be changed by

owner or client Ceilings — Latex flat, 2 coats Walls — Latex flat, 2 coats

Walls - Latex flat, 2 coats

Trim - Latex semi-gloss, 2 coats

Kitchen and Bathrooms Ceiling — Latex flat, 2 coats

9.09 PAINT EXTERIOR Trim — Latex (1) coat prime (1) coat finish

10.01 BATH VANITIES — As selected by builder (owner)

10.02 BATH FIXTURES - As selected by builder (owner) 11.0 EQUIPMENT

12.0 FURNISHINGS

13.0 SPECIAL CONSTRUCTION

fans shall be 50 c.f.m. minimum.

NONE 14.0 CONVEYING SYSTEMS NONE

15.0 MECHANICAL 15.01 H.V.A.C. — Kitchen and a bath ventilation metal ducts to exterior where indicated and/or required by applicable codes. Complete installation circulating air combustion to meet all

15.02 PLUMBING — Sanitary cold and hot waters and all other piping shall conform to the requirements, local and state.

15.03 Provide minimum 22" walking space in front of all plumbing

requirements of the manufacture and the state. Bath exhaust

fixtures in bathrooms and 14"x30" access panel at tub connections unless otherwise noted. All shower stalls shall have a minimum finished area of 1,024 sq. in. with a minimum of 30" in any direction. Water closets to be a minimum of 15" from wall to centerline of fixture. 16.0 ELECTRICAL

16.01 ELECTRIC — Shall conform to the requirements of the

regulations. Obtain all permits and pay fees required for this

inspection agency of the fire underwriter's association. Submit a

work. Have the installation inspected and approved by and

certificate of final approval by the inspection agency upon

shall be hard wired with battery backup. A combination

area outside each sleeping area or group of sleeping areas.

National Electric Code, the local Power CO,., and all applicable local

completion. Fixtures and apparatus as selected by builder, unless 16.02 SMOKE DETECTORS — Are required and shall be installed inside of each separate sleeping area and on each additional story of the dwelling including basements and cellars. All detectors shall be approved and listed and shall be installed in accordance with the manufacturer's instructions. Smoke detectors

smoke/carbon monoxide detector shall be located in the general

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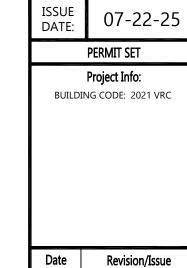
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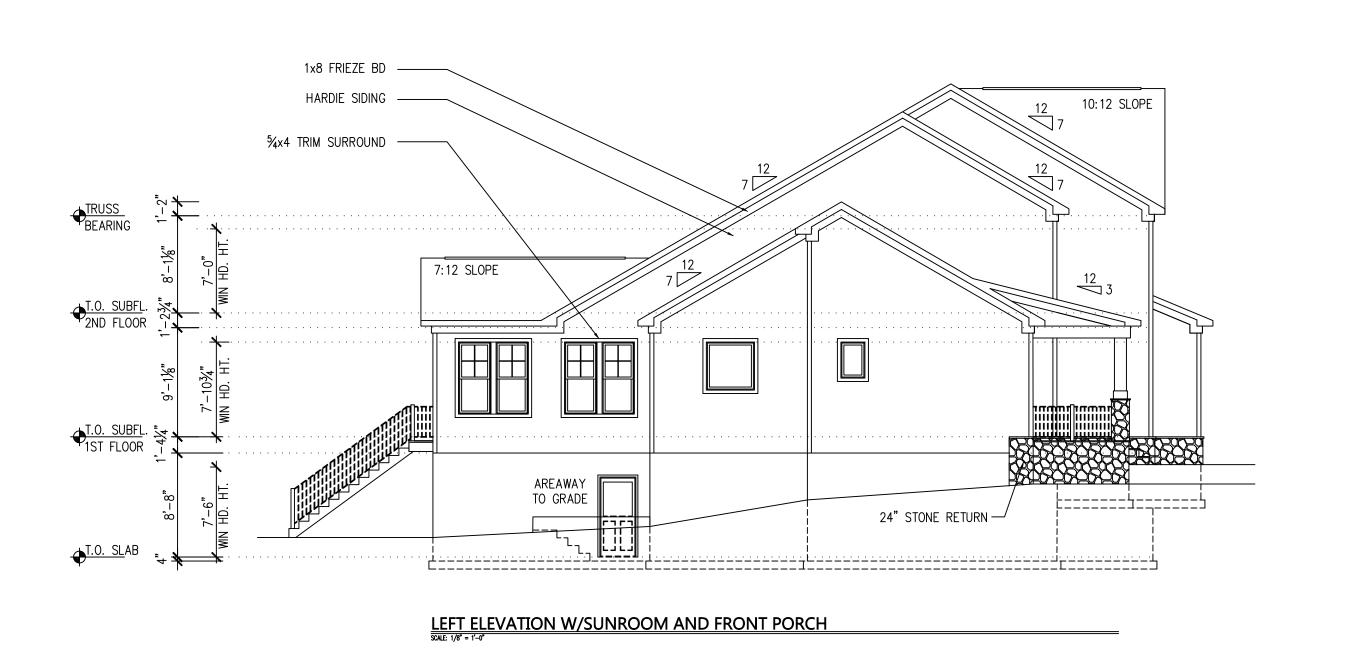
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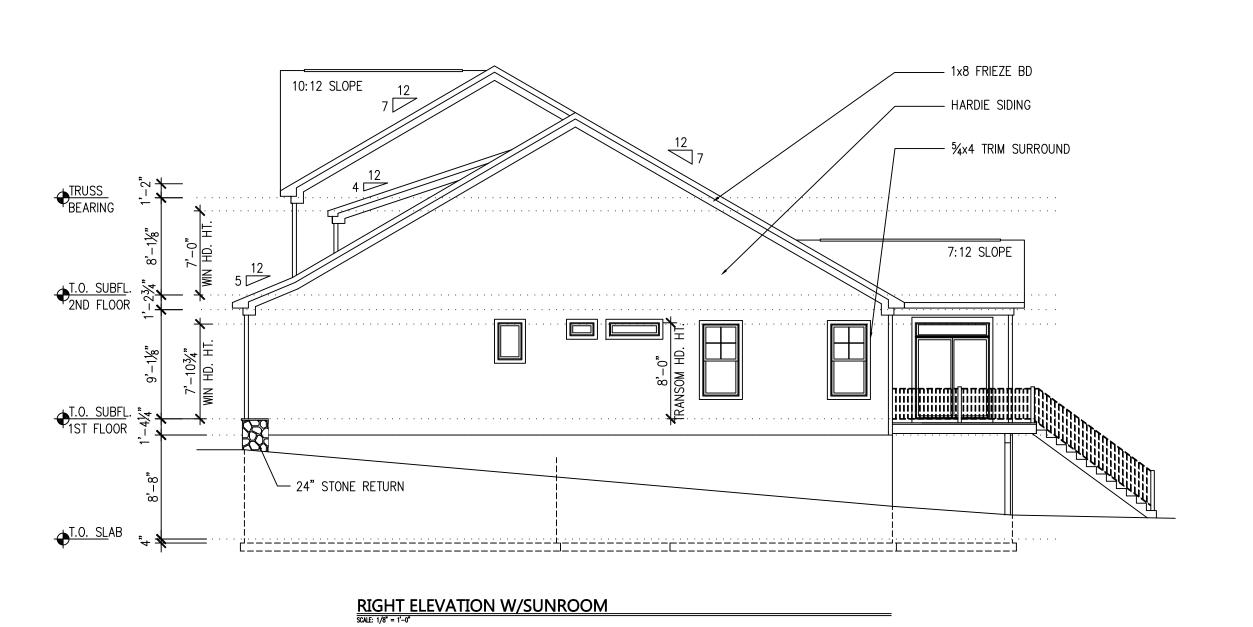


**AVENUE** FISHER AT **ELEVATION** LOT WESLEY









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WESLEY II - LOT 1 AT FISHER AVENUE REAR AND SIDE ELEVATIONS

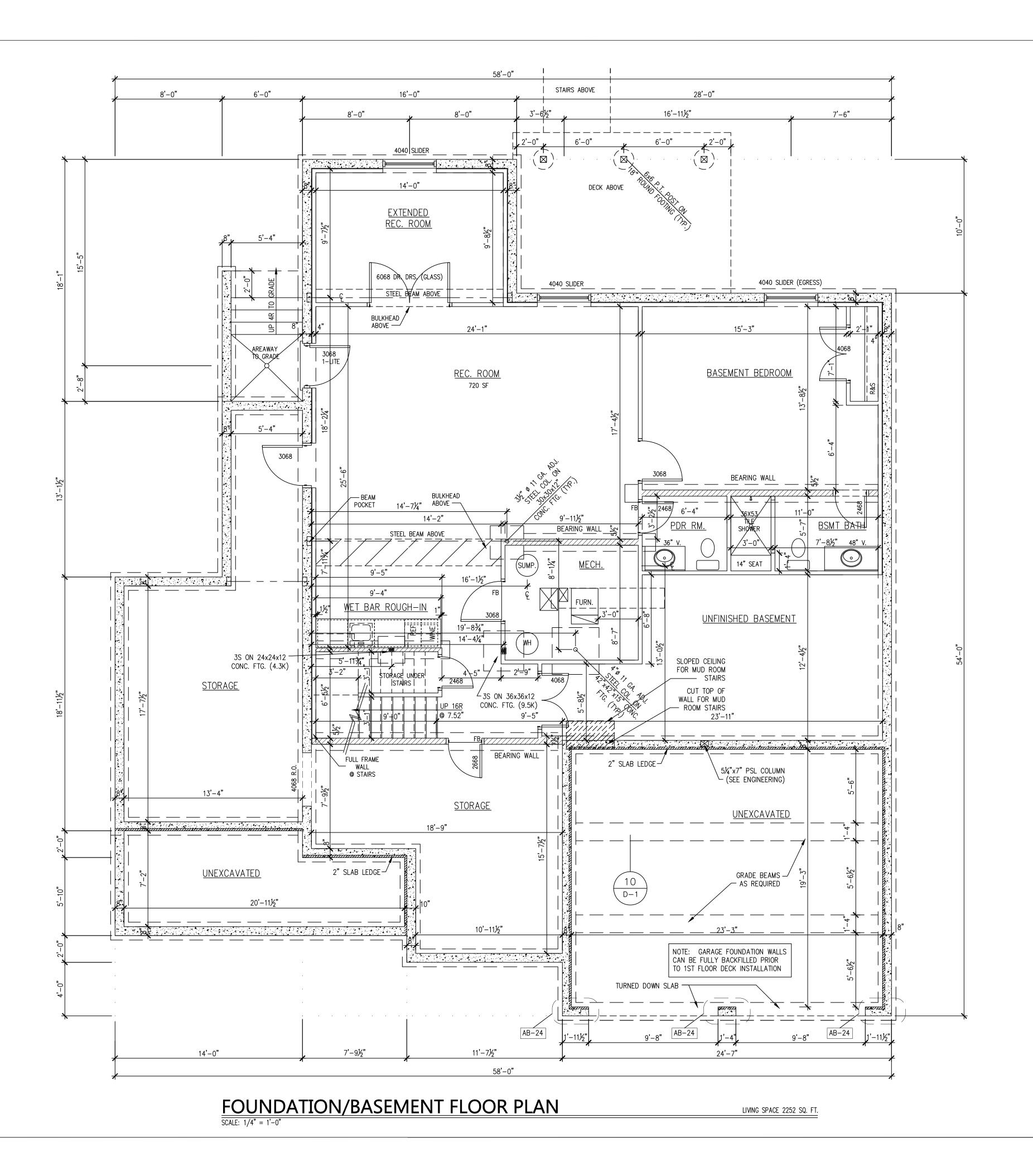
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WESLEY II - LOT 1 AT FISHER AVENUE FOUNDATION/BASEMENT FLOOR PLAN

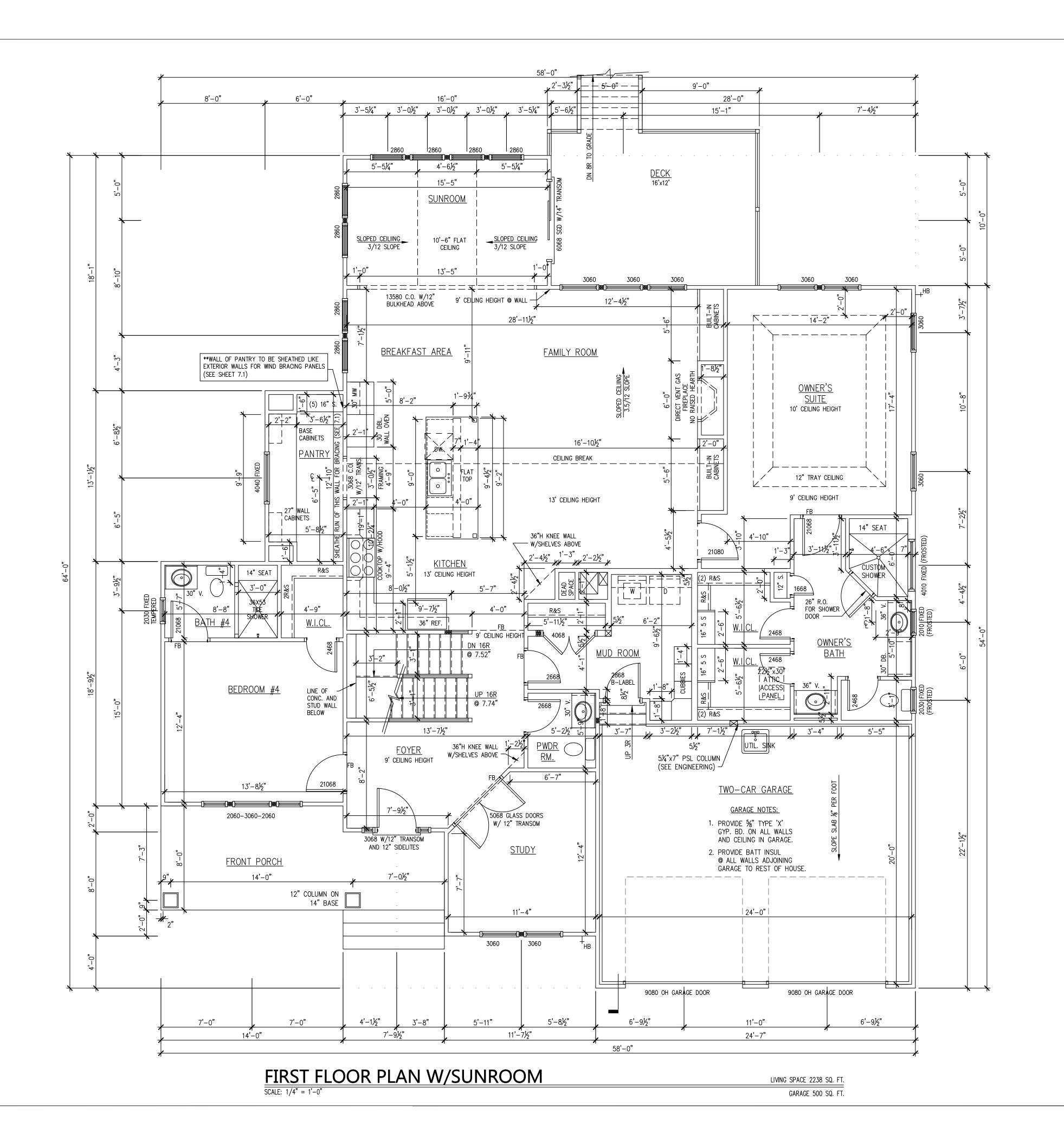
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WESLEY II - LOT 1 AT FISHER AVENUE FIRST FLOOR PLAN

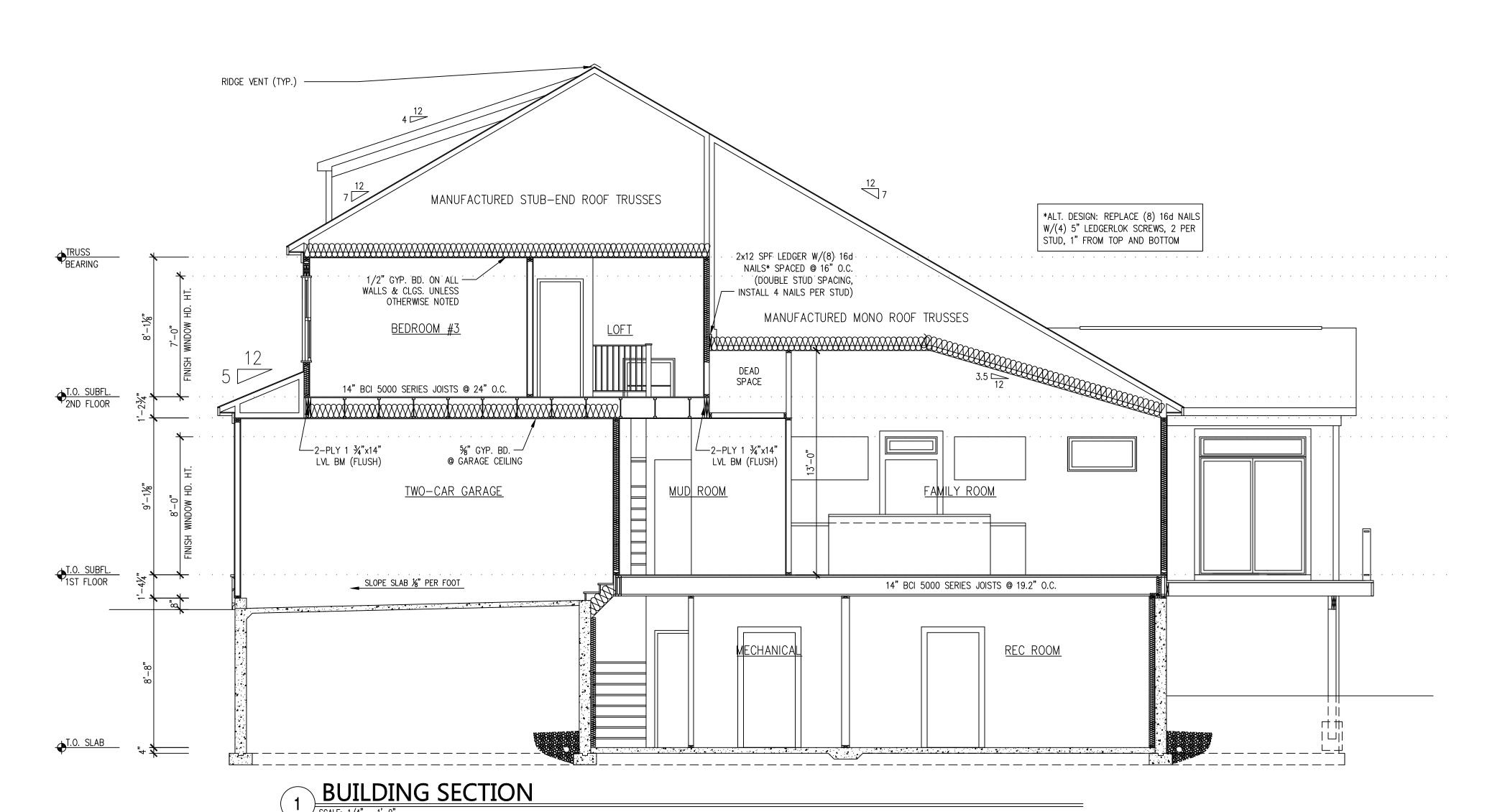
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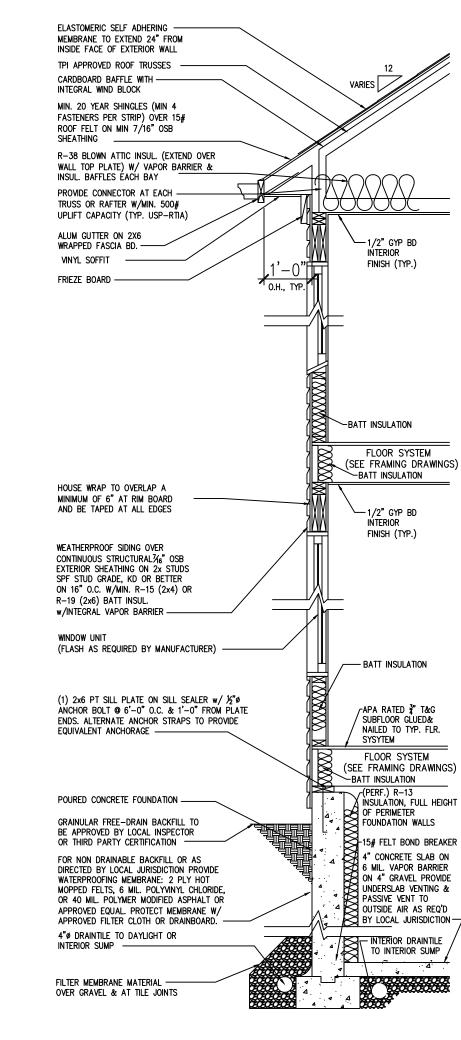


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> WESLEY II - LOT 1 AT FISHER AVENUE SECOND FLOOR PLAN

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### TYPICAL WALL SECTION

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

### DETAIL NOTES:

1. TYPICAL ROOF CONSTRUCTION

TILE ROOF SHINGLES ON 15# ROOFING FELT
ON 7/16" OSB SHEATH (OR EQUIVALENT)
ON PREFAB ROOF TRUSSES (OR 2X— OVERBUILD)

2. TYPICAL EXTERIOR WALL CONSTRUCTION SIDING OR BRICK VENEER (W/ AIR SPACE) ON 7/16" OSB STRUCTURAL SHEATHING ON 2X4 STUDS @ 16" O.C. ON 1/2" DRYWALL

3. TYPICAL FLOOR CONSTRUCTION

3/4" T&G SHEATHING (GLUED AND NAILED) ON PREFABRICATED FLOOR JOISTS

(SEE FRAMING PLAN FOR TYPE, SIZE, AND SPACING) ON 1/2" DRYWALL CEILING BELOW (UNLESS OTHERWISE NOTED)

4. TYPICAL FLOOR SLAB CONSTRUCTION

4" CONC. SLAB ON GRADE W/ 6"X6" #1.4/1.4 W.W.M. ON

6 MIL POLY VAPOR BARRIER ON 4" GRAVEL FILL W/

1"X24" PERIMETER INSULATION @ W.O. CONDT.

CONCRETE f'c = 3000 P.S.I., MIN.

REINF. W.W.M., GRADE 60

LAP MESH 12"

MINIMUM SOIL BEARING CAPACITY = 2,000 P.S.F.

### 5. BASEMENT WALL CONSTRUCTION

AT SOIL CONDITIONS W/ 60 PCF EQUIV. FLUID PRESSURE BACKFILL 8" OR 10" POURED CONCRETE WALL

SEE CHART AT RIGHT FOR STEEL REINFORCING

CONCRETE f'c = 3000 P.S.I., MIN.

MIN. 30 PCF

MINIMUM SOIL BEARING CAPACITY = 2,000 P.S.F.

BATT INSULATION TO EXTEND TO TOP OF SLAB BELOW

6. TYPICAL GARAGE SLAB CONSTRUCTION

4" CONC. SLAB ON GRADE w/ 6"X6" #1.4/1.4 W.W.M. ON

4" GRAVEL FILL.

SEE GRADE BEAM DETAIL FOR ADDITIONAL SLAB REINFORCEMENT

CONCRETE f'c = 3500 P.S.I., MIN.

REINF. W.W.M., GRADE 60

DESIGN LIVE LOAD = 50 P.S.F.

MINIMUM BAR LAP = 26", LAP MESH 12"

MINIMUM SOIL BEARING CAPACITY = 2,000 P.S.F.

### 7. <u>WIND LIMITATIONS</u>

BUILDINGS AND PORTIONS THERE OF SHALL BE LIMITED
BY WIND SPEED, AS DEFINED IN TABLE R301.2(1), AND CONSTRUCTION
METHODS IN ACCORDANCE WITH THIS CODE. BASIC WIND SPEED SHALL BE
DETERMINED FROM FIGURE R301.2(4) WHERE DIFFERENT CONSTRUCTION
METHODS AND STRUCTURAL MATERIALS ARE USED FOR VARIOUS PORTIONS
OF A BUILDING, THE APPLICABLE REQUIREMENTS OF THIS SECTION
FOR EACH PORTION SHALL APPLY. WHERE LOADS FOR WINDOWS, SKYLIGHTS
AND EXTERIOR DOORS ARE NOT OTHERWISE SPECIFIED, THE LOADS LISTED IN
TABLE R301.2(2) ADJUSTED FOR HEIGHT AND EXPOSURE PER TABLE
R301.2(3), SHALL BE USED TO DETERMINE DESIGN LOAD PERFORMANCE
REQUIREMENTS FOR WINDOWS AND DOORS.

VERTICA	VERTICAL REINFORCEMENT FOR 8 INCH NOMINAL FLAT CONCRETE BASEMENT WALLS										
MAXIMUM WALL	MAXIMUM	MINIMUM REINFO	FOR 8 INCH NOMINAL FLAT CONCRETE								
HEIGHT (FEET)	UNBALANCED BACKFILL HEIGHT	SOIL CLASSES	AND DESIGN LATER	BASEMENT WALLS							
	(FEET)	GW, GP, SW AND SP (30)	GM, GC, SM, SM-SC AND ML (45)	SC, ML-CL AND INORGANIC CL (60)							
	4	NO REINFORCEMENT	NR	NR	ONE #4 DAD WITHIN 10" OF						
	5	NR	NR	NR	ONE #4 BAR WITHIN 12" OF TOP OF WALL AND ONE #4						
8	6	NR	NR	#4 @ 17"	BAR NEAR MID-HEIGHT						
	7	NR	#4 @ 16 <b>"</b>	#4 @ 16"	OF THE WALL STORY						
	8	#4 @ 19 <b>"</b>	#4 @ 16 <b>"</b>	#4 @ 12 <b>"</b>	OF THE WALL STORT						
	4	NR	NR	NR	ONE #4 DAD WITHIN 12" OF						
	5	NR	NR	NR	ONE #4 BAR WITHIN 12" OF						
9	9 6	NR	NR	#4 @ 16"	TOP OF WALL AND ONE #4						
	7	NR	#4 @ 16 <b>"</b>	#4 @ 15"	BAR NEAR <u>THIRD POINTS</u> IN THE WALL STORY						
	8	#4 @ 16"	#4 @ 15 <b>"</b>	#4 @ 10"	IN THE WALL STORT						
	9	#4 <b>@</b> 16"	#4 <b>@</b> 11"	#4 @ 8"							

NOTES: a. SOIL CLASSES ARE IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION

SYSTEM. REFER TO IRC TABLE R405.1

b. TABLE VALUES ARE BASED ON REINFORCING BARS WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI (GRADE 60), CONCRETE WITH A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2,500 PSI AND VERTICAL REINFORCEMENT BEING LOCATED AT THE CENTERLINE OF THE WALL.

c. NR INDICATES NO VERTICAL REINFORCEMENT IS REQUIRED.
d. VERTICAL REINFORCEMENT WITH A YIELD STRENGTH OF LESS THAN 60,000 PSI AND/OR BARS OF A DIFFERENT SIZE THAN SPECIFIED IN THE TABLE ARE PERMITTED IN ACCORDANCE WITH IRC SECTION R404.1.2.3.7.6 AND TABLE R0404.1.2(9).

ENERGY CODE COMPLIANCE FOR RESIDENTIAL (VUSBC 2018)
(PRESCRIPTIVE METHOD)

TABLE N1102.1.2 (R402.1.2)

ALL COMPONENTS HAVE INSULATION
VALUES EQUAL TO OR BETTER
THAN THOSE LISTED
(SEE SHEET 1, 6.1)

### INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT®

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENTS											
ALL OF VIRGINIA					INSULATIO	ON	FOUNDATION				
CLIMATE ZONE	FENESTRATION U-FACTOR <sup>b</sup>	SKYLIGHT <sup>b</sup> U-FACTOR	GLAZED FENESTRATION SHGC <sup>b,e</sup>	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE <sup>i</sup>	FLOOR R-VALUE	BASEMENT° WALL R-VALUE	SLAB <sup>d</sup> R-VALUE & DEPTH	CRAWL SPACE° WALL R-VALUE	
4 EXCEPT MARINE	.32	.55	.40	49	15 OR 13+1 <sup>h</sup>	8/13	19	10/13	10, 2 FT	10/13	

a. R-VALUES ARE MINIMUMS. U-FACTORS AND SHGC ARE MAXIMUMS. WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS OF THE INSULATION, THE INSTALLED R-VALUE OF THE INSULATION SHALL NOT BE LESS THAN THE R-VALUE SPECIFIED IN THE TABLE.

- b. THE FENESTRATION U-FACTOR COLUMN EXCLUDES SKYLIGHTS. THE SHGC COLUMN APPLIES TO ALL FENESTRATION.
- c. "10/13" MEANS R-10 CONTINUOUS INSULATION ON THE INTERIOR OR EXTERIOR OF THE HOME OR R-13 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL.
- d. R-5 SHALL BE ADDED TO THE REQUIRED SLAB EDGE R-VALUES FOR HEATED SLABS.
- e. THERE ARE NO SHGC REQUIREMENTS IN THE MARINE ZONE.
- f. Basement wall insulation is not required in warm—humid locations as defined by figure n1101.10 and table 1101.10

h. FIRST VALUE IS CAVITY INSULATION, SECOND IS CONTINUOUS INSULATION OR INSULATED SIDING, SO "13+1" MEANS R-13 CAVITY INSULATION PLUS R-1 CONTINUOUS INSULATION OR INSULATED SIDING. IF STRUCTURAL SHEATHING COVERS 40 PERCENT OR LESS OF THE EXTERIOR, CONTINUOUS INSULATION R-VALUE SHALL BE PERMITTED TO BE REDUCED BY NO MORE THAN R-3 IN THE LOCATIONS WHERE STRUCTURAL SHEATHING IS USED - TO MAINTAIN A CONSISTENT TOTAL SHEATHING THICKNESS.

i. The second R-value applies when more than half the insulation is on the interior of the mass wall.

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LEY II - LOT 1 AT FISHER AVENUE

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BUILDING CODE: 2021 VRC

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12' 3" (X0.95 X1.6 X1.38) 22' 1" 22' 10"\*\*

2' 8" (X0.95 X1.6 X1.0) 4' 0" 5' 7"

2' 5" (X0.95 X1.6 X1.0) 3' 8" 6' 0"

(5) 60'0" 23'0" WSP, CS-PF

14' 0" 12' 8" CS-WSP

(6) 32' 0" 14' 0" CS-WSP

BWL	BWL LENGTH	BWL SPACING	BWP METHOD	REQ. FEET N	MULTIPLIER* TOTAL I	BWP LENGTH REQ. TOTAL	BWL BWL LENGTH	BWL SPACING	BWP METHOD REQ. FEE	T MULTIPLIER* TOT	AL REQ.	BWP LENGTH TOTAL	BWL	BWL LENGTH	BWL SPACING	BWP METHOD	REQ. FEET	MULTIPLIER*	TOTAL REQ.	BWP LENGTH TOTAL
1	44' 0"	14'8"	CS-WSP	2' 9" (XC	0.95 X1.6 X1.38) 5	8" 11'0"	8 14' 0"	11'0"	CS-WSP 2'2"	(X0.95 X1.6 X1.0)	3' 4"	8' 0"	20)	21' 10"	19' 6"	CS-WSP	3' 6"	(X1.06 .9)	3' 4"	7'0"
2	57'0"	12'8"	GB	8' 6" (XC	0.95 X1.6 X1.38) 1	7' 10" 22' 0"	9 6'0"	9' 4"	CS-PF 2'0"	(X0.95 X1.6 X1.0)	3' 1"	6'0"	21	19' 6"	21' 10"	CS-WSP	3' 10"	(X1.06 .9)	3' 9"	8'0"
3	49'0"	15'0"	CS-PF, CS-WSP	5'0" (XC	0.95 X1.6 X1.38) 10	)' 6" 14' 9"**	(10) 16' 0"	10'0"	CS-PF 2'0"	(X0.95 X1.6 X1.0)	3' 1"	6' 3" **	22	19' 6"	21' 10"	CS-WSP	3' 10"	(X1.06 .9)	3' 9"	12'0"
$\overline{}$	54'0"	25'0"	CS-WSP	7' 9" (XC	0.95 X1.6 X1.38) 16	6' 4" 19' 8"	(11) 10' 0"	15' 4"	CS-PF 2' 10"	(X0.95 X1.6 X1.0)	4'4"	5' 6" **								

1.0 FOR ROOF TO RIDGE HEIGHT OF 10'0"

1.06 FOR ROOF TO RIDGE HEIGHT OF 11'0"

1.38 FOR ROOF TO RIDGE HEIGHT OF 16'3"

\*MULTIPLIERS USED: 0.95 FOR 9'-0" CEILING

0.9 FOR 8'-0" CEILING

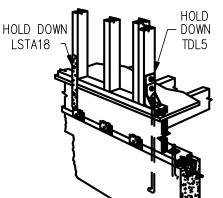
1.6 FOR 5+ LINES IN ONE DIRECTION

CS-WSP AND CS-PF BRACED WALL PANELS SHALL BE LOCATED NOT BRACED WALL PANELS WITH CONTINUOUS SHEATHING MORE THAN 20 FEET FROM EDGE TO EDGE AND SHALL BE PERMITTED TO NEXT TO OPENINGS SHOULD COMPLY WITH THE BEGIN NO MORE THEN 10 FEET FROM THE END OF A BRACED WALL LINE LENGTH REQUIREMENTS IN TABLE R602.10.5 OF THE IN ACCORDANCE WITH SECTION R602.10.2 AND FIGURE R602.10.2.2 OF 2021 IRC. THE 2021 IRC.

THE TOTAL COMBINED DISTANCE FROM EACH END OF A BRACED WALL LIKE TO THE OUTERMOST BRACED WALL LINE OR PANELS IN THE LINE SHALL NOT EXCEED 12.5 FEET.

BRACED WALL PANELS MAY BE OFFSET OUT OF PLANE UP TO 4 FEET FROM THE DESIGNATED BRACED WALL LINE PROVIDED THAT THE TOTAL GYPSUM BOARD PANELS GET GYP BOARD NAILS OR OUT TO OUT OFFSET OF BRACED WALL PANELS IN A BRACED WALL LINE SCREWS AT 7" O.C. IS NOT MORE THAN 8 FEET IN ACCORDANCE WITH FIGURE R602.10.1.1 OF THE 2021 IRC.

CORNER FRAMING FOR CONTINUOUS SHEATHING SHOULD COMPLY WITH FIGURE R602.10.7 OF THE 2021 IRC, ALSO SEE D-2 DETAIL 8. STRUCTURAL PANELS GET 6d COMMON NAILS AT 6" O.C. EDGE SPACING AND 12" O.C. FIELD



Floor-to-Floor Connections

USP TDL5 CONCRETE ANGLES PROVIDE THE REQUIRED 800 LBS OF HOLD DOWN FORCE AT NECESSARY PANEL ENDS WITH 4" OF BOLT EMBEDMENT DEPTH. STRAPS ARE TO USE (1) 1/2" Ø ANCHOR BOLT FOR CONCRETE ATTACHMENT AND (4) 16d NAILS WITH (1) ½"ø BOLT FOR WOOD ATTACHMENT.

\*NOTE: STRAPS CAN BE OMITTED IF PLYWOOD SHEATHING EXTENDS FROM SILL PLATE ON CONCRETE WALL TO TOP PLATE OF WALL. CONTINUING THE SHEATHING PANELS OVER THE FLOOR JOISTS AND UP THE WALL PROVIDES ENOUGH HOLD-DOWN FORCE TO OMIT THE NOTED STRAPS. (THIS APPLIES TO BASEMENT HOUSE TYPES ONLY)





**AVENUE** 

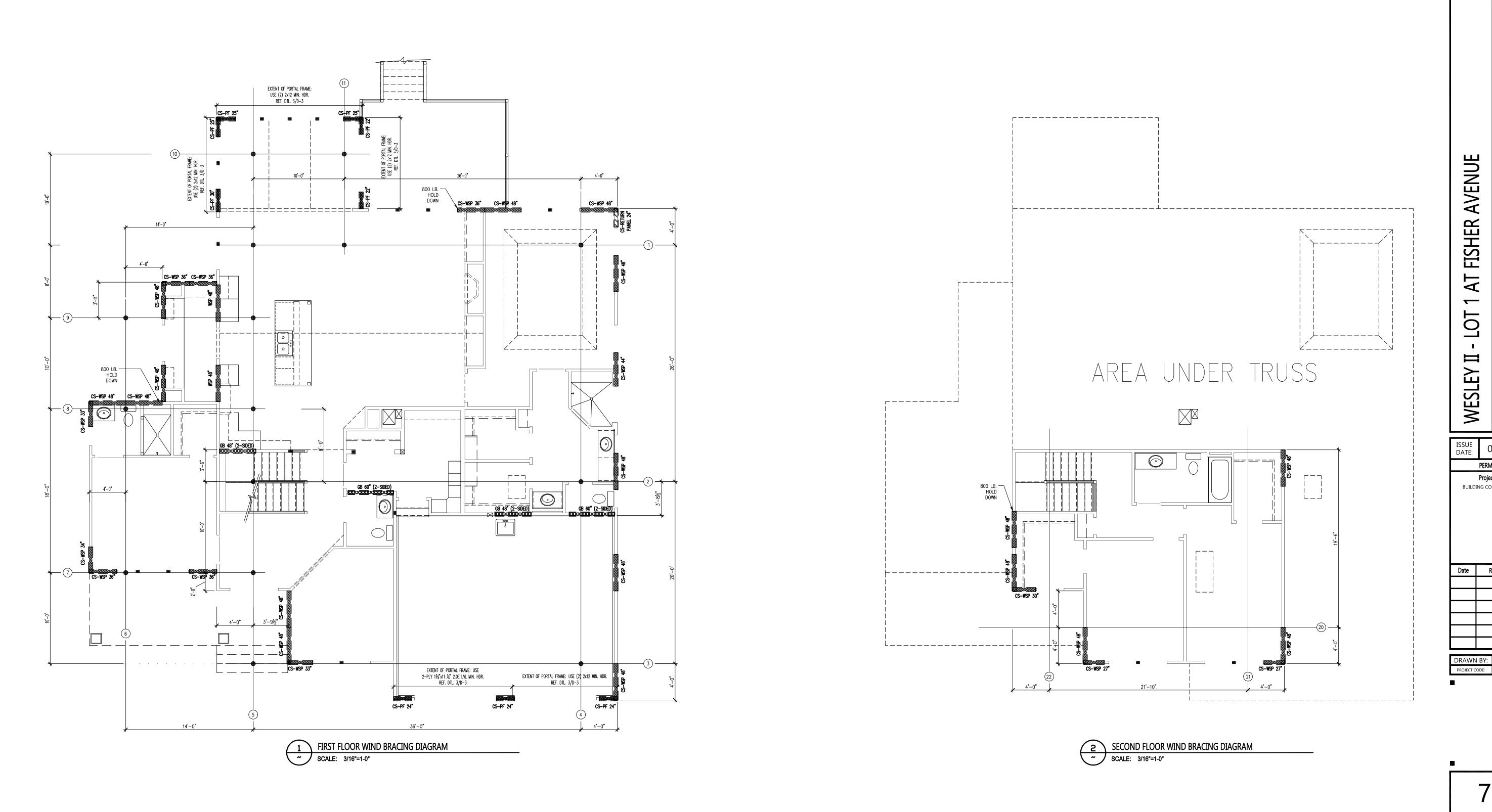
FISHER

WESLEY

07-22-25

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\*\*PORTAL FRAMES USE CONTRIBUTED LENGTH OF 1.5x ACTUAL

LENGTH IN ACCORDANCE WITH AMENDMENT 61 TO THE 2021

VUSBC CONCERNING IRC TABLE R602.10.5.



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WESLEY II - LOT 1 AT FISHER AVENUE FIRST FLOOR FRAMING PLAN

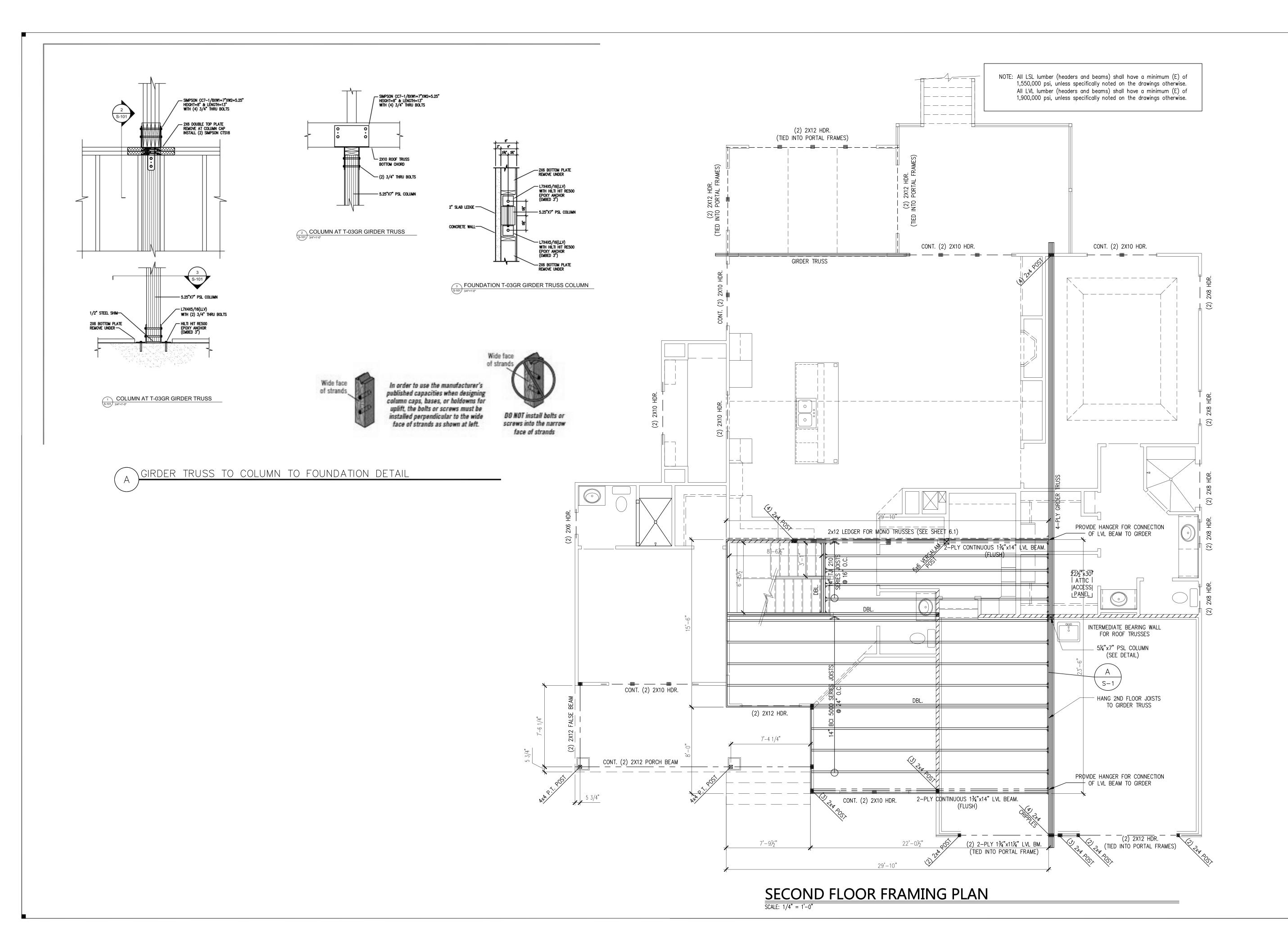
07-22-2
PERMIT SET
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IG CODE: 2021 VRC

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PROJECT CODE: 25.219

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S-1





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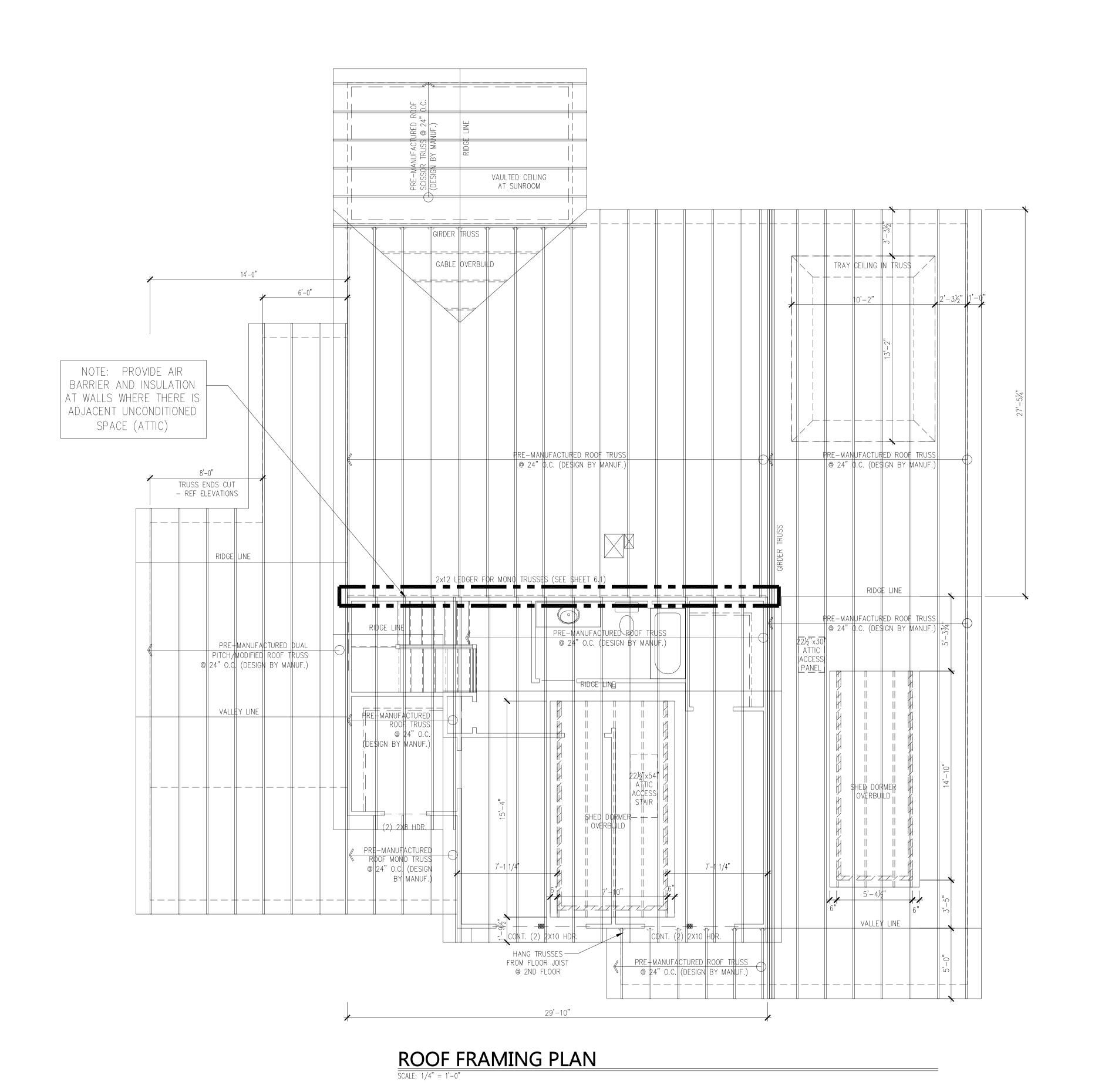
**AVENUE PLAN** FISHER **FRAMING** AT FLOOR  $\blacksquare$ OND WESLEY

SEC(

Project Info:								
BUILD	BUILDING CODE: 2021 VRC							
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Date	Revision/Issue							
Date	Revision/Issue							

ISSUE DATE: 07-22-25

**S-2** 





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WESLEY II - LOT 1 AT FISHER AVENUE ROOF FRAMING PLAN

ISSUE DATE: 07-22-25

PERMIT SET

Project Info:
BUILDING CODE: 2021 VRC

Date Revision/Issue

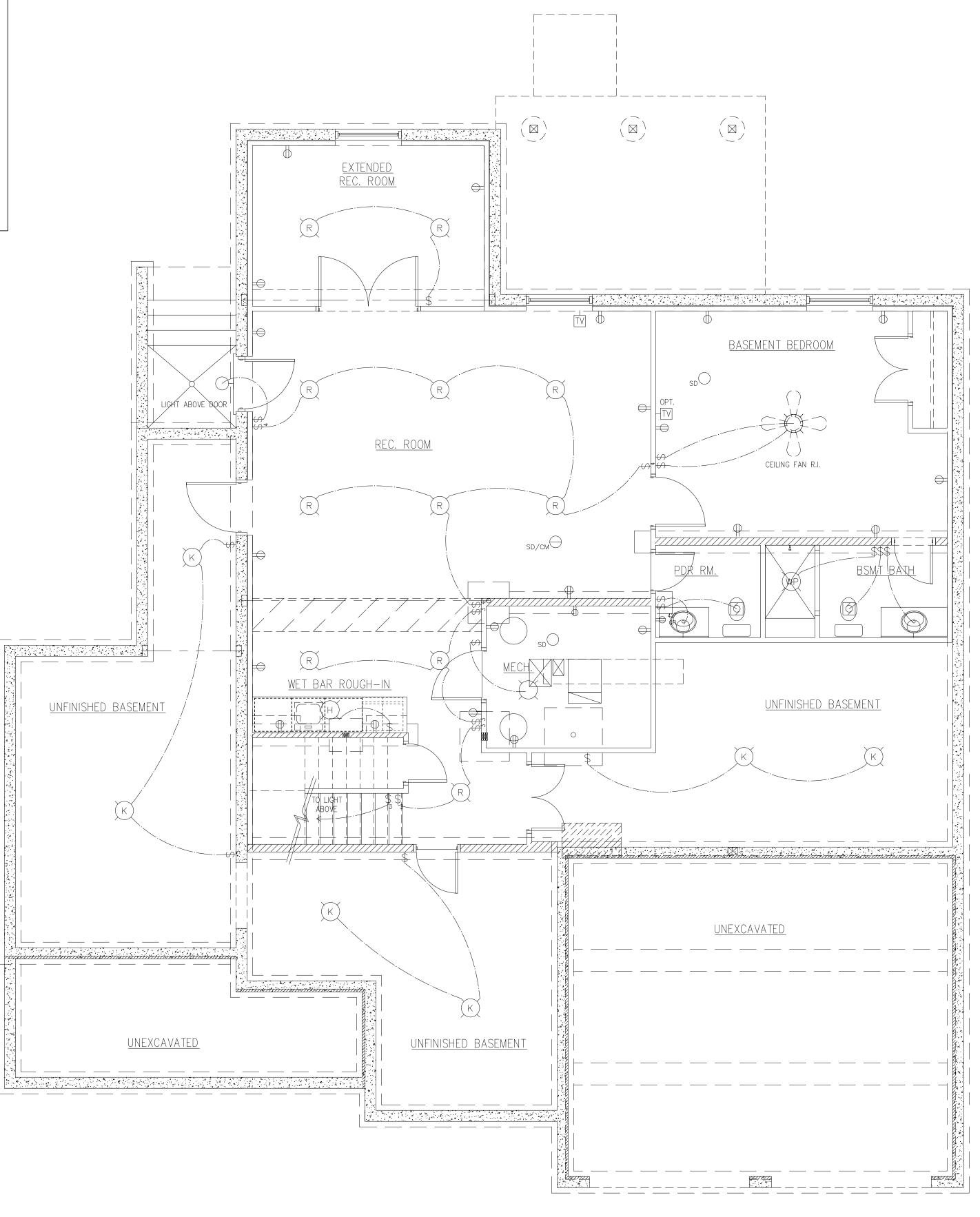
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PROJECT CODE: 25.219

S-3

#### SYMBOLS ₩ WALL MOUNTED FIXTURE \$ SINGLE WAY SWITCH SPECIAL RECEPTACLE (220) THERMOSTAT CEILING MOUNTED FIXTURE THREE WAY SWITCH © CEILING FAN VENT ⇒ DUPLEX, RECEPTACLE TELEPHONE OUTLET O<sub>SD</sub> SMOKE DETECTOR RECESSED LIGHT FIXTURE ⇒ DUPLEX, GROUND FAULT TELEVISION ANTENNA CEILING MOUNTED FIXTURE \_\_\_ CEILING FAN DUPLEX, RECEPTACLE @ 42" (U) UNDER CABINET FIXTURE ABOVE FLOOR (K) KEYLESS FIXTURE → DUPLEX, WATERPROOF \_\_\_\_\_\_ ELECTRICAL WIRING $igoplus_{ exttt{sd/cm}}$ SMOKE DETECTOR/ CARBON MONOXIDE

#### ELECTRICAL NOTES:

- 1. SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN 3 FEET HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER.
- 2. PROVIDE DEDICATED CIRCUITS FOR ALL APPLIANCES AND HVAC EQUIPMENT AS REQUIRED BY CODE.
- 3. G.C. TO VERIFY TYPE OF APPLIANCE TO BE INSTALLED PRIOR TO WIRING.
- 4. PROVIDE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) RECEPTACLES AT REQUIRED LOCATIONS.
- 5. PROVIDE INSULATION—CONTACT—RATED RECESSED FIXTURES AT ALL INSULATED CEILINGS.
- 6. ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES LOCATED IN BATHROOMS, BELOW GRADE GARAGES, BELOW GRADE ACCESSORY BUILDINGS, EXTERIORS, CRAWL SPACES, BASEMENTS, KITCHEN COUNTERTOPS, SINKS (WITHIN 6 FT OF TOP INSIDE EDGE), TUBS/SHOWERS WITHIN 6 FT OF OUTSIDE EDGE AND LAUNDRY AREAS, AND SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER (GFI) PROTECTION.
- 7. FLOOR JOISTS SHALL NOT BE CUT, NOTCHED OR OTHERWISE ALTERED IN ANY WAY.
- 8. <u>ALL</u> PERMANENT FIXTURE LAMPS ARE TO BE HIGH EFFICIENCY. PERMANENT LIGHTING FIXTURES SHALL BE CONTROLLED WITH A DIMMER, OCCUPANT SENSOR, OR OTHER CONTROL BUILT INTO THE FIXTURE (EXCLUDING HALLWAYS, BATHROOMS, EXTERIOR LIGHTING, AND SAFETY/SECURITY LIGHTING)
- 9. <u>ALL</u> RECEPTACLES TO BE TAMPER RESISTANT EXCEPT THOSE LOCATED MORE THAN 5 ½ FEET ABOVE FLOOR AND THOSE PART OF A A LUMINAIRE OR APPLIANCE.
- 10. RECEPTACLES SHALL NOT BE INSTALLED WITHIN A ZONE OF 3 FT HORIZ AND 8 FT VERT. FROM THE TOP OF THE BATHTUB RIM OR SHOWER STALL THRESHOLD.





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SLEY II - LOT 1 AT FISHER AVENUE EMENT ELECTRICAL LAYOUTS

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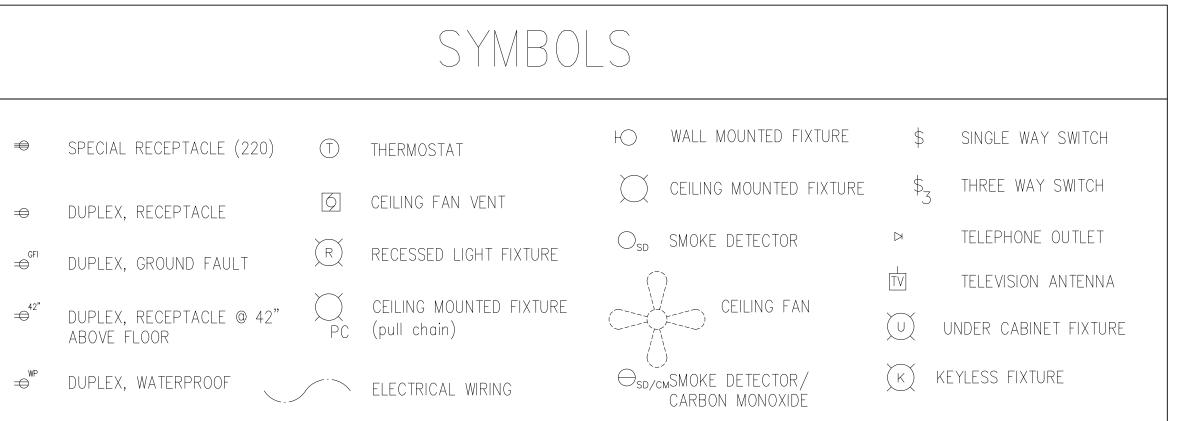
BUILDING CODE: 2021 VRC

Date Revision/Issue

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PROJECT CODE: 25.219

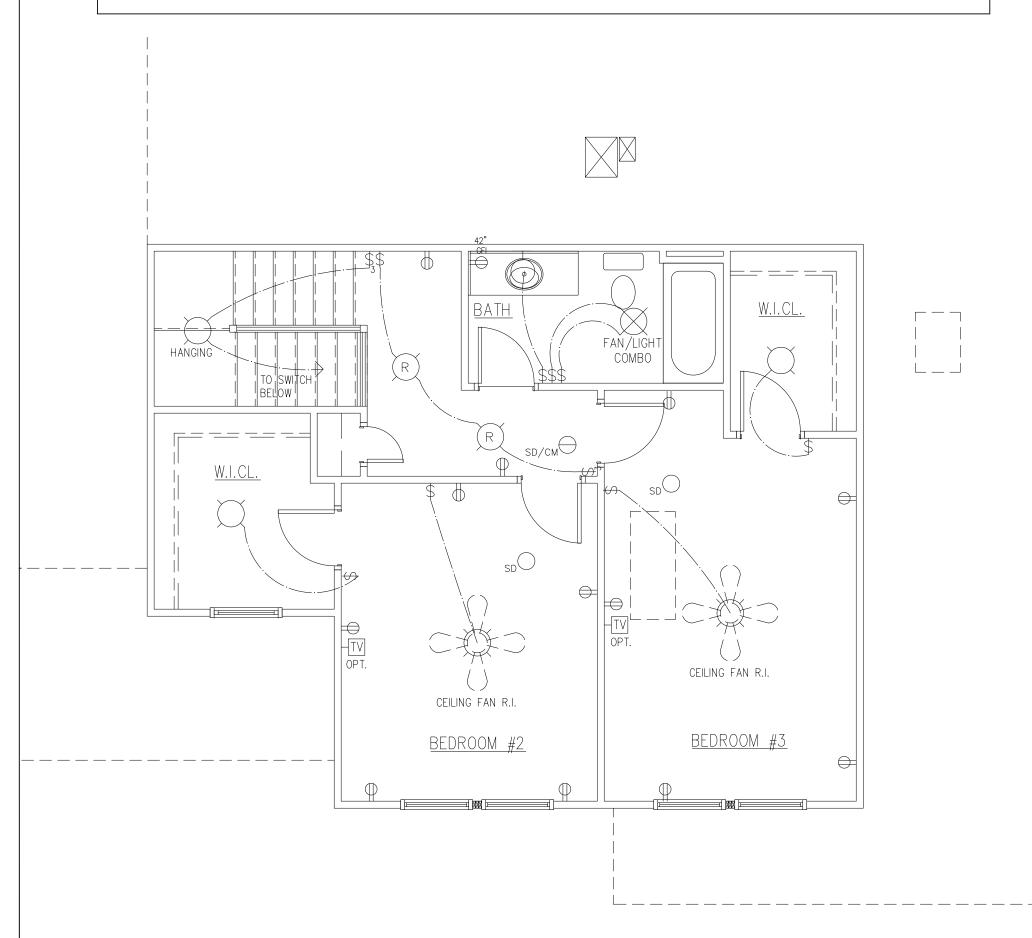
\_\_\_\_\_ E-1

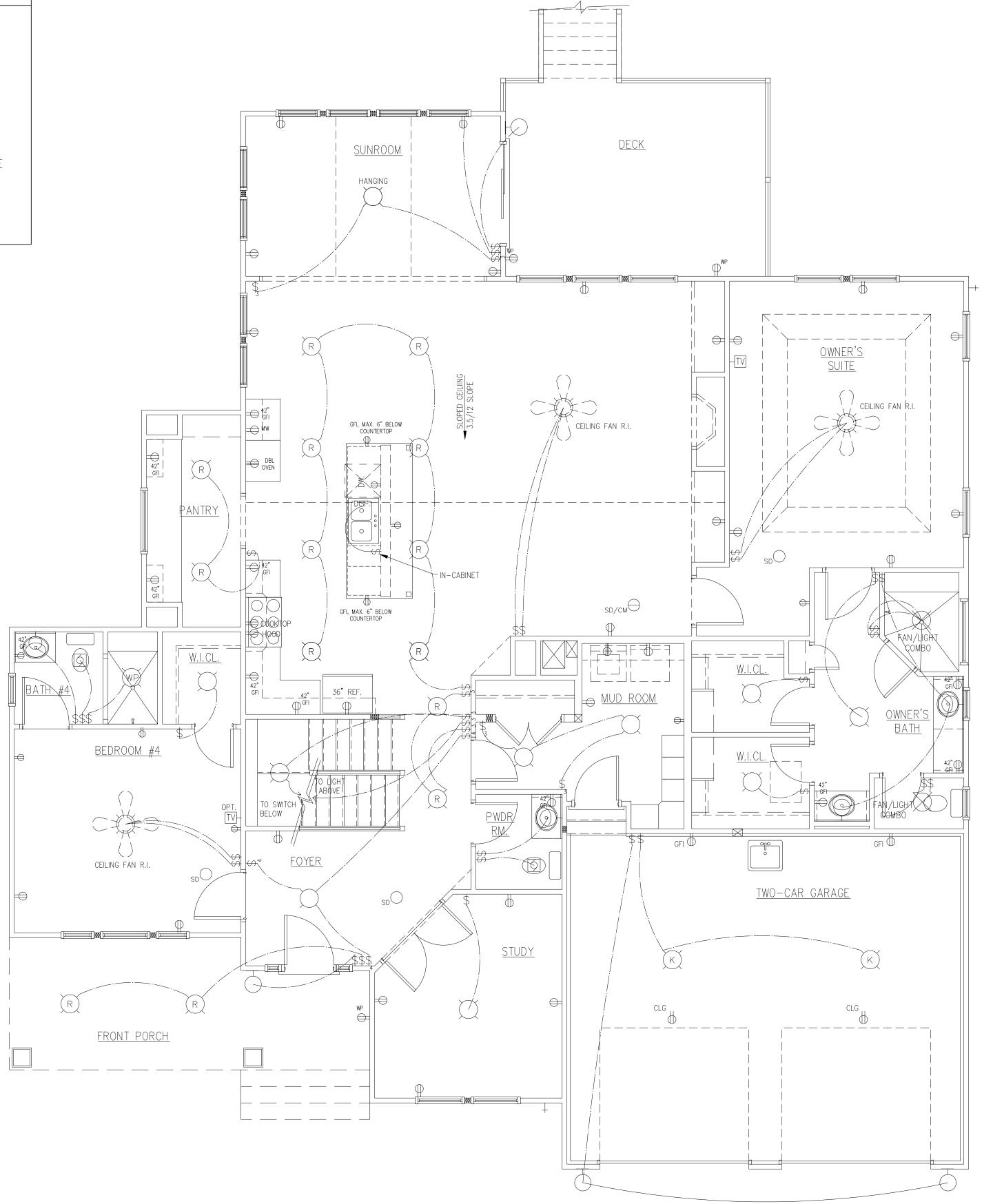
BASEMENT ELECTRICAL LAYOUT



ELECTRICAL NOTES:

- 1. SMOKE ALARMS SHALL BE INSTALLED NOT LESS THAN 3 FEET HORIZONTALLY FROM THE DOOR OR OPENING OF A BATHROOM THAT CONTAINS A BATHTUB OR SHOWER.
- 2. PROVIDE DEDICATED CIRCUITS FOR ALL APPLIANCES AND HVAC EQUIPMENT AS REQUIRED BY CODE.
- 3. G.C. TO VERIFY TYPE OF APPLIANCE TO BE INSTALLED PRIOR TO WIRING.
- 4. PROVIDE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) RECEPTACLES AT REQUIRED LOCATIONS.
- 5. PROVIDE INSULATION—CONTACT—RATED RECESSED FIXTURES AT ALL INSULATED CEILINGS.
- 6. ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES LOCATED IN BATHROOMS, BELOW GRADE GARAGES, BELOW GRADE ACCESSORY BUILDINGS, EXTERIORS, CRAWL SPACES, BASEMENTS, KITCHEN COUNTERTOPS, SINKS (WITHIN 6 FT OF TOP INSIDE EDGE), TUBS/SHOWERS WITHIN 6 FT OF OUTSIDE EDGE AND LAUNDRY AREAS, AND SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND SHALL HAVE GROUND-FAULT CIRCUIT-INTERRUPTER (GFI) PROTECTION.
- 7. FLOOR JOISTS SHALL NOT BE CUT, NOTCHED OR OTHERWISE ALTERED IN ANY WAY.
- 8. <u>ALL</u> PERMANENT FIXTURE LAMPS ARE TO BE HIGH EFFICIENCY. PERMANENT LIGHTING FIXTURES SHALL BE CONTROLLED WITH A DIMMER, OCCUPANT SENSOR, OR OTHER CONTROL BUILT INTO THE FIXTURE (EXCLUDING HALLWAYS, BATHROOMS, EXTERIOR LIGHTING, AND SAFETY/SECURITY LIGHTING)
- 9. <u>ALL</u> RECEPTACLES TO BE TAMPER RESISTANT EXCEPT THOSE LOCATED MORE THAN 5 ½ FEET ABOVE FLOOR AND THOSE PART OF A A LUMINAIRE OR APPLIANCE.
- 10. RECEPTACLES SHALL NOT BE INSTALLED WITHIN A ZONE OF 3 FT HORIZ AND 8 FT VERT. FROM THE TOP OF THE BATHTUB RIM OR SHOWER STALL THRESHOLD.







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- PLANS

II - LOT 1 AT FISHER AVENUE

ID SECOND FLOOR ELECTRICAL PI

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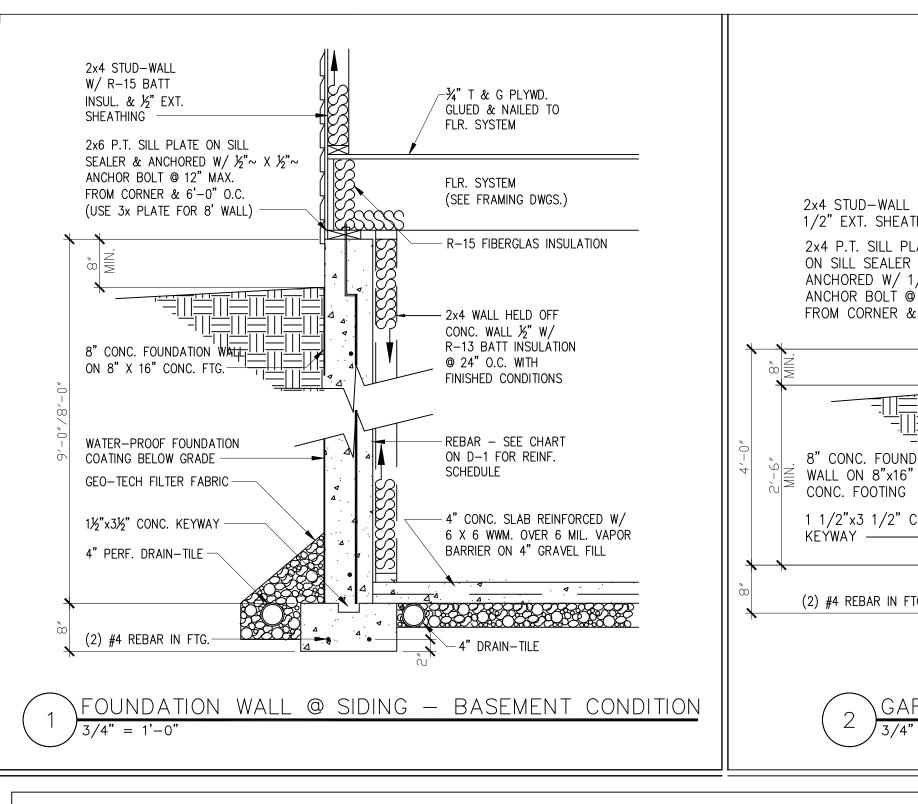
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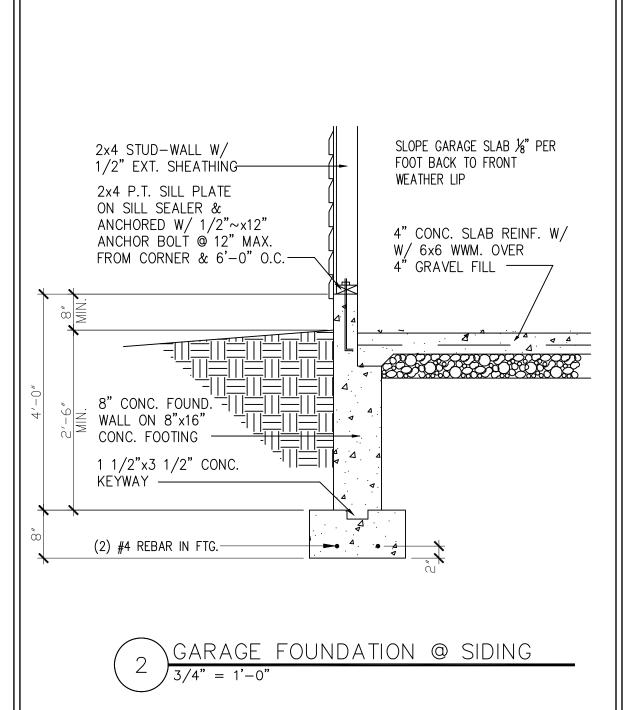
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PROJECT CODE: 25.219

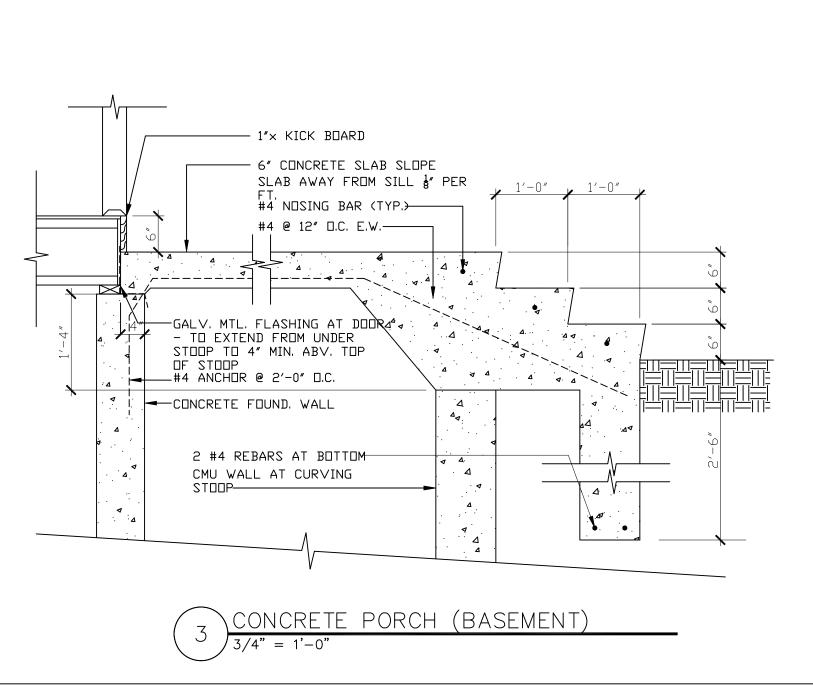
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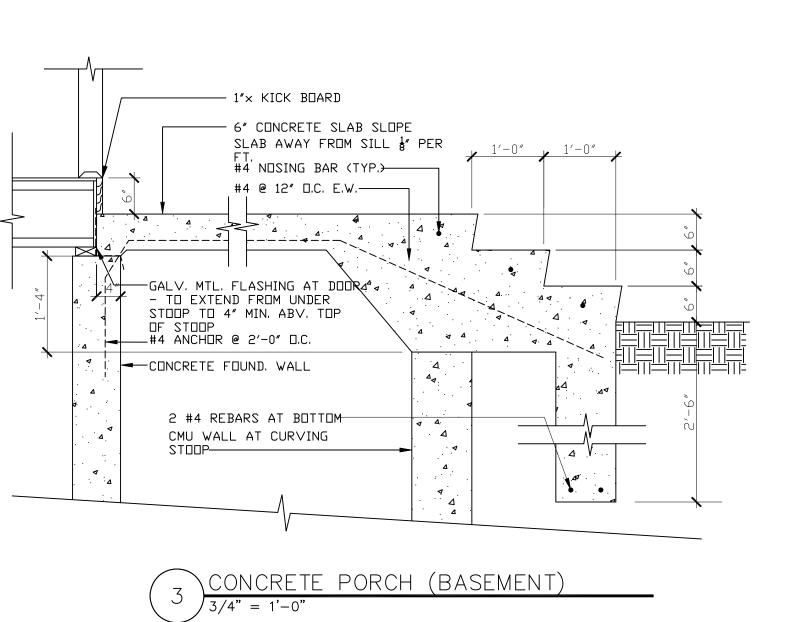
FIRST FLOOR ELECTRICAL LAYOUT

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









NOTES: a. SOIL CLASSES ARE IN ACCORDANCE WITH THE UNIFIED SOIL

c. NR INDICATES NO VERTICAL REINFORCEMENT IS REQUIRED.

R404.1.2.3.7.6 AND TABLE R0404.1.2(9).

OF THE WALL.

CLASSIFICATION SYSTEM. REFER TO IRC TABLE R405.1

b. TABLE VALUES ARE BASED ON REINFORCING BARS WITH A MINIMUM

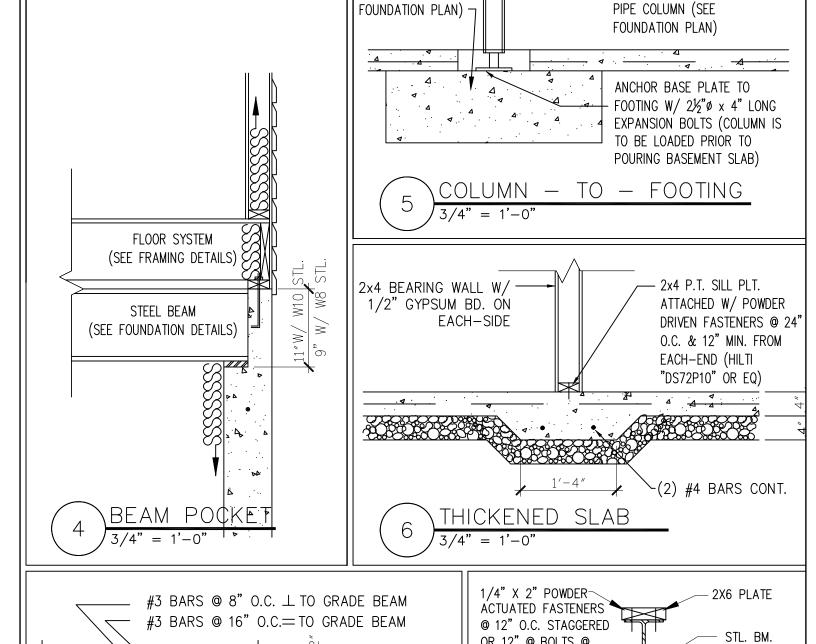
d. VERTICAL REINFORCEMENT WITH A YIELD STRENGTH OF LESS THAN

YIELD STRENGTH OF 60,000 PSI (GRADE 60), CONCRETE WITH A

60,000 PSI AND/OR BARS OF A DIFFERENT SIZE THAN SPECIFIED IN THE TABLE ARE PERMITTED IN ACCORDANCE WITH IRC SECTION

MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2,500 PSI AND

VERTICAL REINFORCEMENT BEING LOCATED AT THE CENTERLINE



CONC. FOOTING (SEE

- ADJUSTABLE STEEL

**allen wright** desigi

(571) 482-7286

info@allenwrightdesign.com

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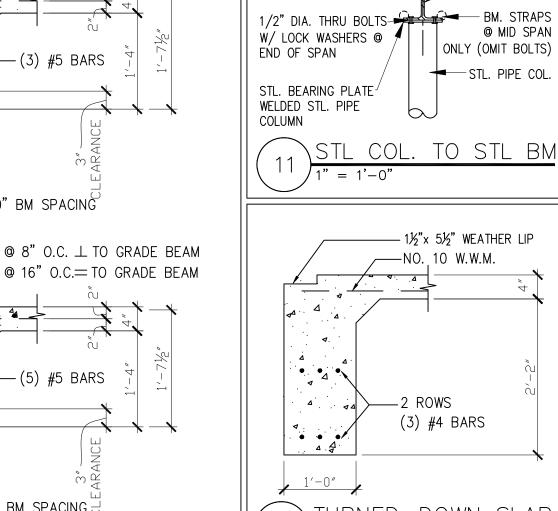
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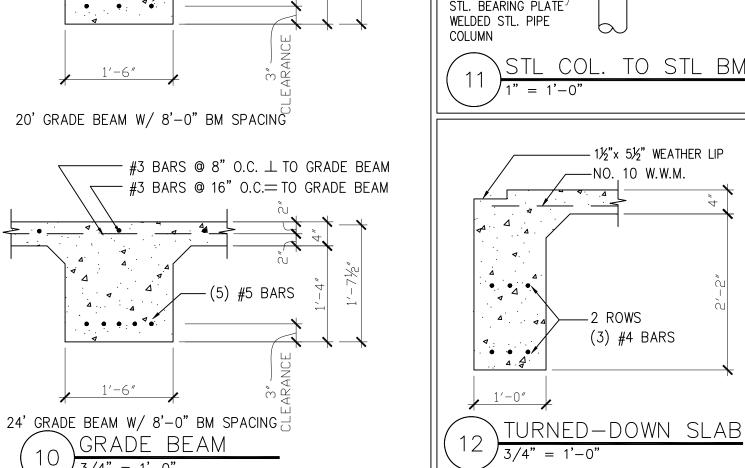
(SEE FRAMING)

Homes



OR 12" @ BOLTS @

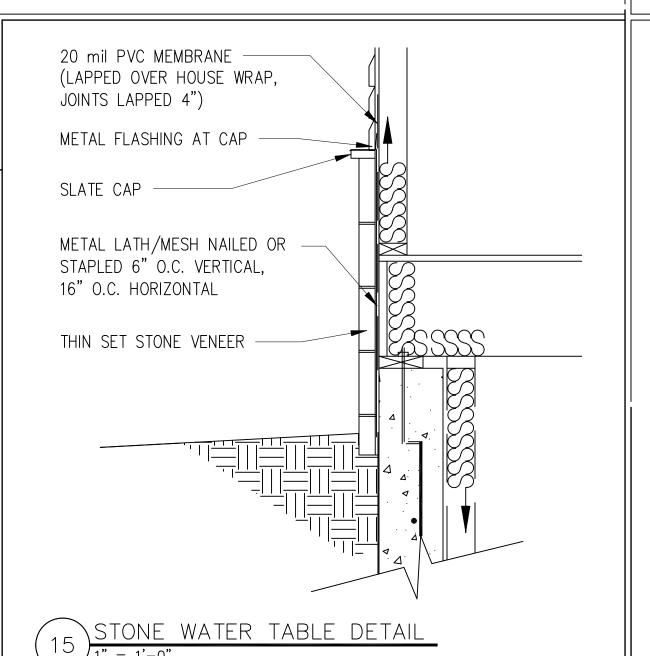
24" O.C. STAGGERED

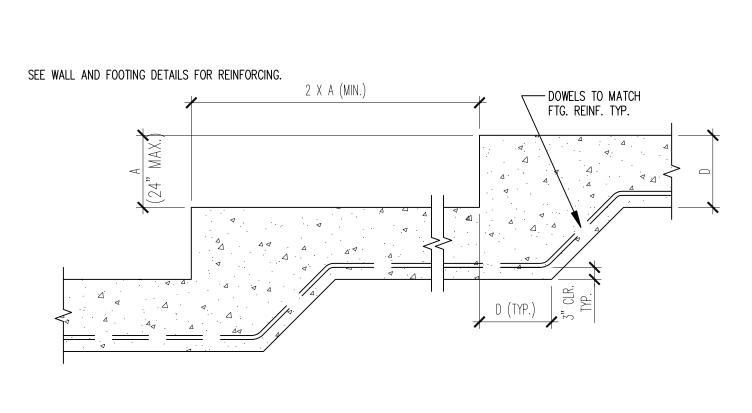


<u>VERTICA</u>	L REINFORCEMENT F	or 8 inch nominal f	LAT CONCRETE BAS	EMENT WALLS	HORIZONTAL REINFORCEMENT
MAXIMUM WALL	MAXIMUM	MINIMUM REINFO	DRCEMENT SIZE AND	SPACING	FOR 8 INCH NOMINAL FLAT CONCRETE
HEIGHT (FEET)	UNBALANCED BACKFILL HEIGHT	SOIL CLASSES	AND DESIGN LATER	AL SOIL	BASEMENT WALLS
	(FEET)	GW, GP, SW AND SP (30)	GM, GC, SM, SM-SC AND ML	SC, ML-CL AND INORGANIC CL	
			(45)	(60)	
	4	NO REINFORCEMENT	NR	NR	ONE WARDAD WITHIN 19" OF
	5	NR	NR	NR	ONE #4 BAR WITHIN 12" OF
8	6	NR	NR	#4 @ 17"	TOP OF WALL AND ONE #4
	7	NR	#4 @ 16"	#4 @ 16"	BAR NEAR MID-HEIGHT
	8	#4 @ 19"	#4 @ 16"	#4 @ 12"	OF THE WALL STORY
	4	NR	NR	NR	
	5	NR	NR	NR	ONE #4 BAR WITHIN 12" OF
9	6	NR	NR	#4 @ 16"	TOP OF WALL AND ONE #4
	7	NR	#4 @ 16"	#4 @ 15"	BAR NEAR THIRD POINTS
	8	#4 @ 16"	#4 @ 15"	#4 @ 10"	IN THE WALL STORY
	9	#4 @ 16"	#4 @ 11"	#4 @ 8"	

SOIL GROUP	UNIFIED SOIL CLASSIFICATION SYSTEM SYMBOL		DRAINAGE CHARACTERISTICS	FROST HEAVE POTENTIAL	VOLUME CHANGE POTENTIAL EXPANSION
	GW	WELL-GRADED GRAVELS, GRAVEL SAND MIXTURES, LITTLE OR NO FINES	GOOD	LOW	LOW
	GP	POORLY GRADED GRAVELS OR GRAVEL SAND MIXTURES, LITTLE OR NO FINES	GOOD	LOW	LOW
GROUP	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES	GOOD	LOW	LOW
	SP	POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES	GOOD	LOW	LOW
	GM	SILTY GRAVELS, GRAVEL—SAND—SILT MIXTURES	GOOD	MEDIUM	LOW
	SM	SILTY SAND, SAND-SILT MIXTURES	GOOD	MEDIUM	LOW
CDOLID	GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES	MEDIUM	MEDIUM	LOW
GROUP	SC	CLAYEY SANDS, SAND-CLAY MIXTURE	MEDIUM	MEDIUM	LOW
	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY	MEDIUM	HIGH	LOW
	CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	MEDIUM	MEDIUM	MEDIUM TO LOW
GROUP	CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	POOR	MEDIUM	HIGH
III	MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS	POOR	HIGH	HIGH
	OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	POOR	MEDIUM	MEDIUM
GROUP	OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	UNSATISFACTORY	MEDIUM	HIGH
IV	Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS	UNSATISFACTORY	MEDIUM	HIGH

a. THE PERCOLATION RATE FOR GOOD DRAINAGE IS OVER 4 INCHES PER HOUR, MEDIUM DRAINAGE IS 2 INCHES TO 4 INCHES PER HOUR, AND POOR IS LESS THAN 2 INCHES PER HOUR SOILS WITH A LOW POTENTIAL EXPANSION TYPICALLY HAVE A PLASTICITY INDEX (PI) OF 0 TO 15, SOILS WITH A MEDIUM POTENTIAL EXPANSION HAVE A PI OF 10 TO 35 AND SOILS WITH A HIGH POTENTIAL EXPANSION HAVE A PI GREATER THAN 20.





STEPPED SLAB DETAIL

1'-6"

1'-6"

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