
LOCAL HISTORIC DISTRICT: Wilmore

PROPERTY ADDRESS: 1830 Wickford Place, Lot 4 (corner)

SUMMARY OF REQUEST: New Construction

APPLICANT: Craig Calcasola

Details of Proposed Request

Existing Conditions

The existing structure is a one story single family house constructed in 1938 and located on the edge of the District. The HDC placed a 365-day Stay of Demolition on the property January 13, 2016. The parcel is zoned R-43 Multi-Family and is approximately .34 acres in size. The lot dimension is 150' x 100'. Adjacent uses are multi-family, industrial, commercial and single family. There are mature trees on the site. Trees to be saved, replaced or removed are identified on the plans. The parcel has been rezoned to Urban Residential-1 to construct four single family houses. The required minimum setback is 14', required minimum rear yard is 10' and required minimum lot width is 20'. The Floor Area Ratio (FAR) does not apply to single family structures on individual lots. 2019 Update: The structure has been demolished and all four parcels are currently vacant lots.

Proposal

The proposal is the construction of four single family structures with a focus on house plans for each lot and overall site layout for the four structures. Proposed lot dimensions are 37.5' x 100'. There are two models being proposed and will be identified as Lot/Plan 1, 2, 3 and 4. The setback of the proposed house for Lot 1 is the same as the existing structure which will set the location for Lots 1-4. All homes are 1.5 stories (approx. 23' to 28' in height), and feature front porches 8' in depth, wood siding, wood windows, brick foundations, and wood corner boards. The applicant is requesting cementitious siding for the porch columns and soffits.

The underlying zoning will require an 8' planting strip and 6' sidewalk. New landscaping and tree save opportunities are shown on the site plan. Included in the plan is a new private alley at the rear for the four houses. The revised plans also include numeric evidence of comparable lot coverages in the neighborhood, pervious area more clearly shown on the site plan and updated window design and placement.

Staff Recommendation

1. HDC 2016-324_1816 Wickford Place (Lot 4) Motion, June 14, 2017: Approve with Conditions.
"Based on the need for a Certified Arborist's letter on tree protection relative to the revised plans – address dirt pile up and the footings/foundation -Mr. Rumsch made a MOTION for staff to review the additional information for probable approval. Mr. Henningson seconded."
2. Arborist Letter for the Willow Oak and Sycamore provided in attached submittal.
3. The project is not incongruous with the district and meets guidelines for New Construction.
4. Staff Recommends reinstating the **Approval with Conditions with Staff to work with applicant**, per 10.4.1 of the Rules for Procedure.
5. If requested by a Commission member, or if an interested party has signed up to speak in opposition, then the HDC shall open the application for a full hearing.



HDC-2019-00366

PID: 11907746

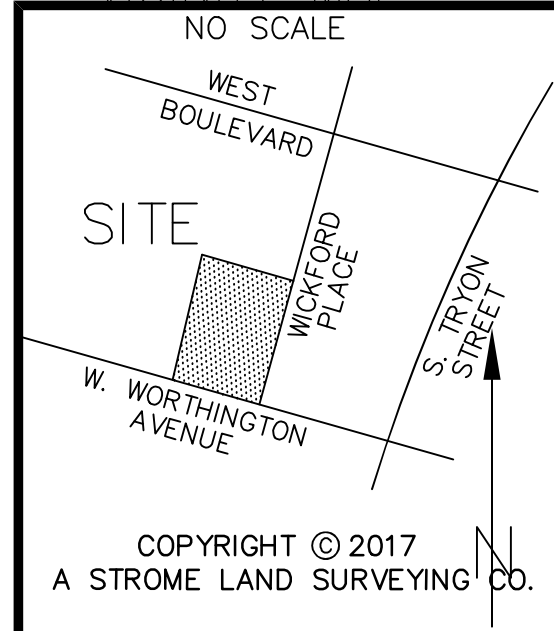
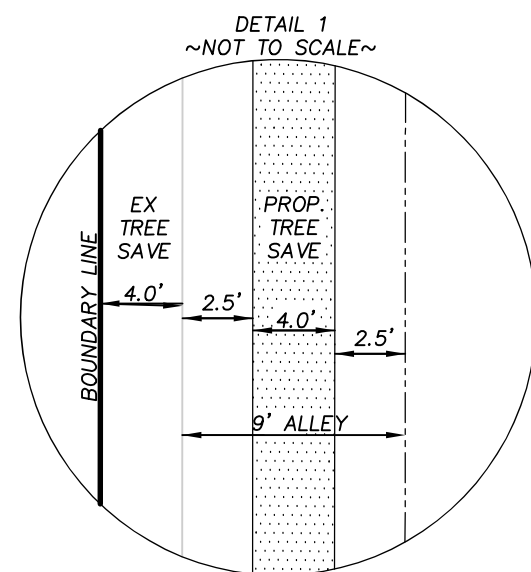
LOCAL HISTORIC DISTRICT: WILMORE

PROPOSED PROJECT: CONSENT AGENDA

July Meeting 2019



VICINITY MAP

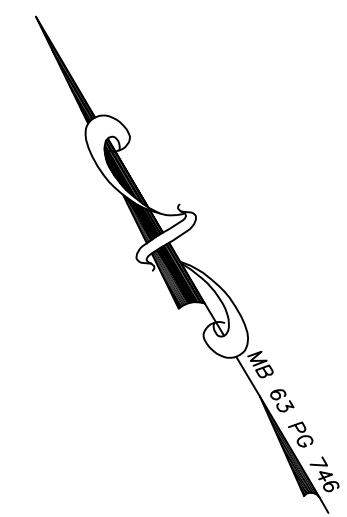
COPYRIGHT © 2017
A STROME LAND SURVEYING CO.VICINITY MAP
(Not to Scale)

NOTES

1. AREA CALCULATED BY COORDINATE COMPUTATION.
2. ADJOINING PROPERTY OWNERS NAMES WERE TAKEN FROM MECKLENBURG COUNTY TAX OFFICE RECORDS, AND ARE CONSIDERED AS NOW OR FORMERLY.
3. IRON RODS AT ALL CORNERS UNLESS NOTED.
4. THIS MAP IS SUBJECT TO ANY AND ALL APPLICABLE DEED RESTRICTIONS, EASEMENTS, RIGHT-OF-WAY, UTILITIES AN RESTRICTIVE COVENANTS AND PRELIMINARY PLAN WHICH MAY BE OF RECORD.
5. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES, MEASURED WITH ELECTRONIC MEASURING DEVICES.
6. LOT SUBJECT TO ALL ZONING ORDINANCES OF CITY OF CHARLOTTE. BUILDER/OWNER MUST VERIFY THAT LOT IS IN COMPLIANCE WITH ALL COUNTY AND HOMEOWNERS ASSOCIATION ZONING ORDINANCES PRIOR TO ANY LAND DISTURBANCE OR CONSTRUCTION.
7. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE SEARCH.
8. NO NCGS MONUMENT FOUND WITHIN 2000 FEET.
9. OFF SITE RIGHT OF WAYS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.
10. NO OBSERVED EVIDENCE OF CEMETERIES OR BURIAL GROUNDS NOR WERE ANY REPORTED TO THIS FIRM.
11. NO OBSERVED EVIDENCE OF SITE BEING USED AS AS SOLID WASTE DUMP, SUMP, OR SANITARY LANDFILL.
12. MAINTENANCE OF THE PRIVATE ALLEY AND TREE SAVE WILL BE THE RESPONSIBILITY OF THE PROPERTY OWNER OR ASSIGN.
13. SIDEWALK AND UTILITY EASEMENT MEASURED FROM BACK OF SIDEWALK.
14. TREE SAVE AREA PER CITY TREE ORDINANCE

LEGEND

RF	REBAR FOUND
RS	REBAR SET
R/W	RIGHT-OF-WAY
SF	SQUARE FEET
MB	MAP BOOK
DB	DEED BOOK
PG	PAGE
BOUNDARY LINE	
ADJOINER LINE	
RIGHT OF WAY	
EASEMENT	
	TREE SAVE
#0000	LOT ADDRESS



FLOOD NOTE:
NO PORTION OF THE SUBJECT PROPERTY SHOWN HEREON LIES WITHIN A SPECIAL FLOOD HAZARD AREA PER F.E.M.A. FLOOD INSURANCE RATE MAP. COMMUNITY PANEL 3710454300L, DATED: SEPTEMBER 02, 2015.

LINE	BEARING	DISTANCE
T1	N 32°21'43" E	12.95'
T2	N 30°35'30" E	113.62'
T3	S 59°24'30" E	4.00'
T4	S 30°35'30" W	113.68'
T5	S 32°21'43" W	12.83'
T6	N 60°19'53" W	4.00'
T7	N 89°12'16" E	7.03'

LINE	BEARING	DISTANCE
L1	N 30°24'00" E	10.29'
L2	N 33°20'25" E	10.05'

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.CARLOS ORITZ &
RACHEL ORITZ
NOW OR FORMERLY
LOT 3 BLOC 16
DB 19362 PG 430
MB 332 PG 96
PARCEL ID # 119-077-12BRENDAN TINDALL &
KARYN TINDALL
NOW OR FORMERLY
PART OF LOT 1 & LOT 2
DB 32258 PG 689
MB 332 PG 96
PARCEL ID # 119-077-0910' ALLEY WAY per
MB 332 PG 96
(UNOPENED)10' ALLEY WAY per
MB 332 PG 96
(UNOPENED)EXISTING
TREE SAVE PER
MB 63 PG 746PROPOSED TREE SAVE
506 SF
IN MIDDLE OF CONCRETE
DRIVEWAY STRIPS FOR
PRIVATE ALLEY10' COMMON OPEN SPACE
0.034 AC
1,498 SF
MB 63 PG 746
TAX ID# 119-077-50PRIVATE 9'
ALLEY EASEMENT
SEE DETAIL #1WILMORE WALK
CONDOMINIUM
UNIT FILE # 749 PG 114' SETBACK FROM
BACK OF CURB
ALONG BACK OF
PROPOSED WALKW WORTHINGTON AVENUE
60' PUBLIC R/W
per MB 63 PG 746

EXISTING CURB

-R/W-

"I, CHEVIS L. KING, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION RECORDED IN BOOK 32121, PAGE 927; THAT THE RATIO OF PRECISION AS CALCULATED IS 1: 10,000; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 17th DAY OF JULY, A.D., 2018.

PRELIMINARY
NOT FOR SALES OR CONVEYANCES

PROFESSIONAL LAND SURVEYOR

L-5188

That this plat is of a survey that creates a subdivision of land within the area of a county or municipality that has an ordinance that regulates parcels of land.

STATE OF NORTH CAROLINA
MECKLENBURG COUNTY

I, _____, REVIEW OFFICER OF MECKLENBURG COUNTY, N.C.
CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS
ALL STATUTORY REQUIREMENTS FOR RECORDING.

REVIEW OFFICER

DATE

APPROVED IN ACCORDANCE WITH THE PROVISIONS OF CH 20
(SUBDIVISION ORDINANCE) OF THE CITY CODE OF THE CITY OF
CHARLOTTE, NORTH CAROLINA
CHARLOTTE-MECKLENBURG PLANNING DEPARTMENT

PLANNING DEPARTMENT STAFF

DATE

THIS PROPERTY IS LOCATED IN THE CHARLOTTE HISTORIC DISTRICT.

DEVELOPMENT DATA:
PROPERTY AREA IS 15,029 SF, 0.345 AC

ZONING PER CASE 2017-162
UR-1 (CD)
MINIMUM LOT SIZE- 3,000 SF
FRONT SETBACK- 21.5' FROM BACK OF CURB (WICKFORD PLACE)
14' FROM EXISTING CURB (WORTHINGTON AVENUE)
SIDE- 5'
REAR-10'
MAXIMUM BUILDING HEIGHT- 40'
MINIMUM LOT WIDTH- 35'

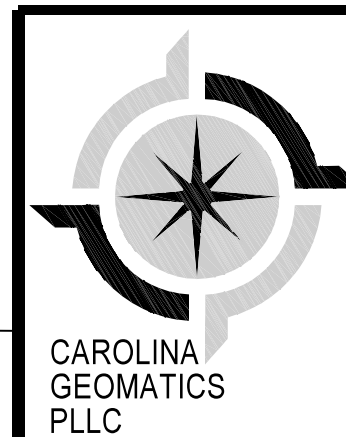
TREE SAVE AREA PROVIDED- 1,782 SF (11.8%)

PURPOSE STATEMENT

THE PURPOSE OF THIS PLAT IS RELOCATE
THE TREE SAVE FROM LOT 4 TO THE
PRIVATE ALLEY AS SHOWN. ALSO, TO
REVISE THE 2' SIDEWALK AND UTILITY
EASEMENT TO 1'. THIS PLAT REPLACES
AND SUPERCEDES MB 63 PG 746 AS
RECORDED IN THE MECKLENBURG
REGISTRY.

REVISED FINAL PLAT

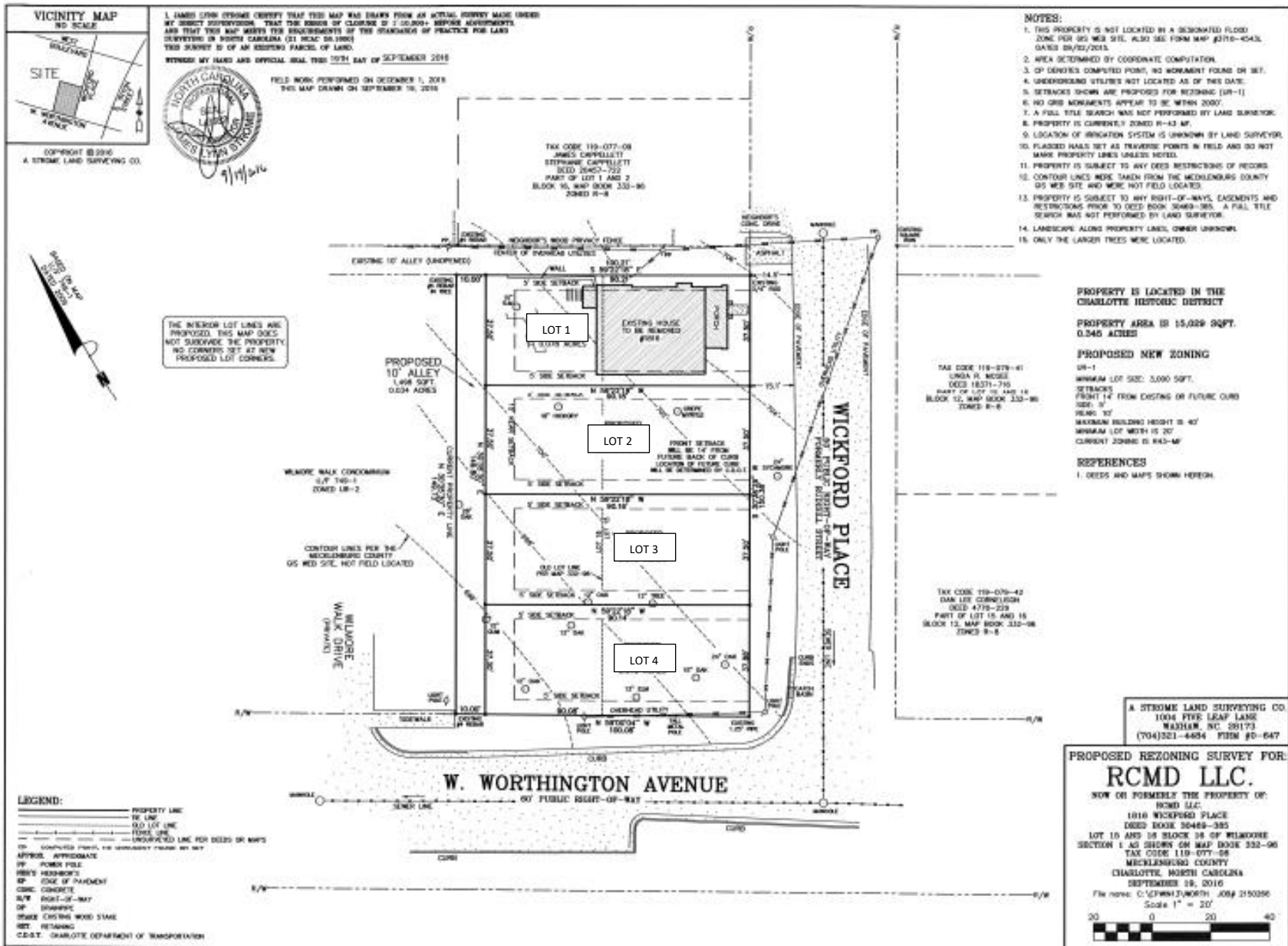
AT PROPERTY KNOWN AS
LOTS 1-4, TREESAVE & COS
WICKFORD PLACE
MB 63 PG 746
DB 30469 PG 385
CITY OF CHARLOTTE, MECKLENBURG COUNTY, NC
DATE: JUNE 8, 2019

Job No.:
014-19-001Drawn:
CLKChecked:
CLKDate:
06/08/19CAROLINA
GEOMATICS
PLLC3833 STREAMSIDE DR
GASTONIA, NC 28056

P (980) 329-3382

CKING@CAROLINAGEOMATICS.COM
NC #P-1965OWNER:
RCMD, LLC
15617 SULLIVAN RIDGE DRIVE
CHARLOTTE, NC 28277

SURVEY



1. DESIGN LOADS:

- 1.1 Design loads are all dead loads plus:
- A. Main floor live loads (kitchen level)40 PSF
 - B. All other floors40 PSF
 - C. Balconies60 PSF
 - D. Decks50 PSF
 - E. Suspended Garages50 PSF
- and 2000 Pound Point Load at any Location
- F. Attic floor live loading with the following:
- i. Areas accessible by permanent stairs30 PSF
 - ii. With Storage20 PSF
 - iii. Without Storage10 PSF
- G. Roof live load20 PSF
- H. Wind load115 MPH (3 Second Gust)
- I. Conforms with Seismic Design Criteria for Zone C.
- J. Snow load20 PSF
- 1.2 All designs are in accordance with the 2018 North Carolina Residential Building Code, designed using ASD 2301.2.1 for all wood and steel structural elements and LRFD 2301.2.2 for all concrete structural elements..

2. FOOTINGS AND FOUNDATIONS:

- 2.1 Soil bearing capacity assumed as 2000 PSF unless noted otherwise or as determined by standard penetrometer test.
- 2.2 All continuous wall footings for one or two-story houses are 10" thick x 20" wide. Reinforcing in footings should be two (2) #4 bars if not noted on the plans. Reinforcement not required by Code, unless footings are on disturbed soil or compacted fill.
- 2.3 All interior piers are 8"x16" CMU up to a maximum height of 32". All piers over 32" high must be filled with Type S mortar. Maximum height for 8"x16" filled pier is 6'-4". Piers larger than 8"x16" are noted on the plans or as required by height. Pier cap blocks should be 8" of solid masonry.
- 2.4 Footings for 8"x16" piers are 20"x30"x10" unless noted otherwise. Reinforcing to be as noted on plans.
- 2.5 Concrete shall have a compressive strength of 3000 PSI in 28 days unless noted otherwise. No concrete shall be poured in temperatures below 40° Fahrenheit unless heat to be provided during curing for two days. The bottom of all footings must be a minimum of 12" below grade.
- 2.6 All rebar splices shall be a minimum of 2'-0" unless otherwise noted.
- 2.7 Any special foundations for structures shall be designed by a Licensed Professional Engineer upon receiving soil capacity specifications for all soil considered to affect the structure.
- 2.8 Chimney footing sizes are shown on the structural design drawings. Masonry or Isokern style chimney footings must be a minimum of 12" thick with 12" projection on all sides.
- 2.9 Foundation walls back-filled with soil and supporting structural framing shall be constructed as shown on detail sheet.
- 2.10 Special retaining wall designs to be shown on detail sheet.

NOTE: ALL POINT LOADS FROM ROOF BRACES, JACK STUDS, AND BEAM SUPPORTS - WHETHER WOOD OR STEEL - CANNOT BEAR ON SHEATHING ALONE. BLOCKING EQUAL TO OR BETTER THAN THE SPECIFIED STUDS OR COLUMN PROVIDED FOR POINT LOAD SUPPORT MUST BE CARRIED THROUGH ALL CONSTRUCTION TO THE FOUNDATION.

3. FRAMING CONSTRUCTION - OTHER THAN ROOF:

- 3.1 Crawlspace girders and band as noted on plans. Maximum clear span to be 4'-8" (6'-0" o/c spacing of piers) unless noted otherwise.

To avoid most cracking in finished hardwood floors over any girders, use the following procedure:

A. Nailing Patterns

- i. All floor joists must be toe-nailed to their support girders with a minimum of 3-8d nails at each end from each side. Larger nails will split and render the toe-nail ineffective. No end-nailing through the girder or band is permitted except for temporary construction purposes.
 - ii. If dropped girders are used, end-lap all joists 12" minimum and side-nail each with a minimum of 3-16d nails at each end of each joist. Ledger strips should be nailed with 3-16d nails at each joist end, with nails spaced 3" apart.
 - iii. Nail multiple-member built-up girders with three rows of 16d nails staggered at 32" o/c, 2" down from the top, 2" up from the bottom, and at mid-depth. Use 3-16d nails at each end of each piece in the joints through the members making up the multiple-girder. This nailing pattern will insure a tight floor from outside of house to outside so that when the framing shrinks during the first heating season, the shrinkage will be uniformly distributed over the entire floor. If the girder nailing pattern is omitted, then the shrinkage will accumulate over the girders and an objectionable crack will develop in the finished hardwood floor over the girder line.
- B. At all girders where the joists change direction, install bridging at 6" o/c for a minimum of six joist spacings beyond any joist direction change. This will insure shrinkage distribution over the floor and not let it accumulate at the girder.
- C. There must be wood blocking through-bolted to the steel beam with joist toe-nailed and attached to the beam with metal hangers under any hardwood floors that pass over a steel beam supporting floor joists.


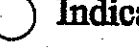


3. FRAMING CONSTRUCTION - OTHER THAN ROOF (CONTINUED):

- 3.2 All crawlspace framing lumber must be Spruce Pine Fir #2 unless noted otherwise.
- 3.3 Steel beams must have 5-2x4 jack studs under each end support unless noted otherwise on the structural plans. All studs must be nailed together with two (2) vertical rows of 16d nails at 8" o/c, unless noted otherwise.
- 3.4 LVL beams must have 3-2x4 jack studs under each end support unless noted otherwise on the structural plans. All studs must be nailed together with two (2) vertical rows of 16d nails at 8" o/c, unless noted otherwise.
- 3.5 Masonry lintels:
- A. For spans up to 6 ft: Use 3½"x3¼"x¼" steel angles.
 - B. For spans from 6 ft to 10 ft: Use 5"x3½"x5/16" steel angles.
 - C. For spans from 9 ft to 18 ft: Use a pair of 9 gauge wires in each of the first 3 courses of brick on a 5"x3½"x5/16" steel angle. Lap all 9 gauge wire splices 12" minimum and extend wires 12" minimum into jambs. Temporarily support steel angle before laying masonry. Shoring may be removed seven days following the installation of masonry.
 - D. When structural steel beams with bottom plates are used to support masonry, the bottom plate must extend the full length of the steel beam. This provides support to the ends of the plate by bearing on the adjacent masonry jambs. The beam should be temporarily shored prior to laying the masonry. The shoring may be removed five days after laying the masonry.
- 3.6 All masonry or stone veneer over lower roofs must have a structural steel angle lag bolted to the adjacent wall studs to prevent sliding of the veneer. A minimum of a triple rafter must be installed below masonry climbs. Thin-set veneer attachments provided by the contractor may supercede this specification. Please verify the alternative attachment procedure with the Engineer of Record.
- 3.7 All rafter braces must have 2 studs from the wall top plate through all floors solid to the foundation or supporting beam below. No braces shall be attached to the top wall plate without studs directly under them.
- 3.8 Where non-bearing parallel partitions fall between floor joists, 2x4 ladders @ 16" o/c must be placed perpendicular to the joists to support the plywood decking or double joist installed directly below wall.
- 3.9 All wood I-joists must be braced in accordance with the manufacturer's directions plus any details shown on the plans. Load bearing partitions, jacks, beams and column supports must be solidly blocked through the floor as the joists and plywood may not be able to carry the concentrated point loads. All point loads must be carried to the foundations with blocking and/or beams. (NOTE: All beams and double joists, etc., have been shown for a load bearing purpose. Placement of the load carrying members shown in the plans in locations other than under the structural element they are intended to carry is the responsibility of the contractor. Exact beam locations are not to be scaled from the framing plans.)
- 3.10 All two-story open rooms with full height openings must be braced to resist pressure resulting from 90 MPH design fastest-mile wind speed or as prescribed for specified wind zones per ASCE 7-98. Any special wall reinforcing shall be shown on the plans provided. Two-story open rooms must be balloon-framed with 2x6s @ 16" o/c as a minimum (no exceptions.)
- 3.11 Stud walls to be listed below unless otherwise noted on the structural plans:
- A. Interior One & Two Story Walls (with intermediate floors)
 - i. Load bearing2x4 @ 16" o/c
 - ii. Non load bearing2x4 @ 16" o/c
 - B. Interior Three Story Walls
 - i. Load bearing (2nd & 3rd Floor).....2x4 @ 16" o/c
 - ii. Load bearing (1st Floor).....2x4 @ 12" o/c or 2x6 @ 16" o/c
 - iii. Non-load bearing.....2x4 @ 16" o/c
 - C. Basement Walls
 - i. Load bearing.....2x4 @ 12" o/c
 - ii. Non-load bearing.....2x4 @ 16" o/c
 - D. Exterior Walls
 - Exterior walls for three stories shall be 2x6 @ 16" o/c with ½"x4"x8" OSB sheathing or C-DX plywood over entire exterior.
- 3.12 Headers shall be as shown on the plans.
- 3.13 When ceiling joists are parallel to an exterior wall and rafters bear on the exterior stud wall's top plate, tie the rafters near the top plate to the ceiling joists with 6' long 2x6 runners at 4' o/c across the top of the ceiling joists.
- 3.14 At all bay windows, each panel shall be nailed to each adjacent panel with 5-16d nails tied together with metal strapping nailed at four locations between floors with a minimum of 2-16d nails in each panel at each strap. This will help prevent vertical cracking in the panel joints due to horizontal oscillation of the panels.
- 3.15 At all stairs, every stud at each stringer must be nailed to each stringer with a minimum of 2-16d nails. This will help prevent cracking between the wallboard and the top of the base molding due to vertical oscillation of the stair stringers.
- 3.16 Steel pipe columns must be in contact with the supported member and continue solid to the supporting masonry or concrete foundation. No intermediate wood blocking should be used as it will crush.

4. FOUNDATION WALLS

- 4.1 All full height foundation walls are shown on structural detail sheet.
- 4.2 All masonry or concrete basement wall construction must be inspected by the County Building Official, Architect, or Engineer for compliance with structural specifications.
- 4.3 Where full-height foundation or basement walls run parallel to floor framing, blocking must be provided between joists at 3'-0" o/c for not less than six joist spacings out from wall.
- 4.4 Details of any earth retaining structures not attached to the house structure will be shown on separate details. (These walls may be designed only after grade conditions are known.)

5. ROOF CONSTRUCTION

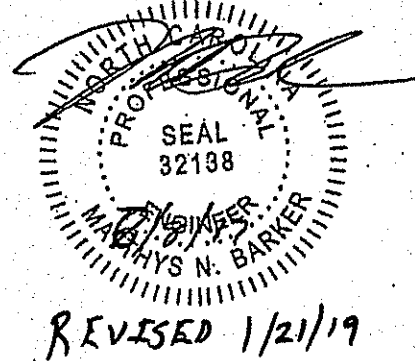
- 5.1 Rafters shall be 2x6 SPF #2 @ 16" o/c for standard weight shingles except as noted. They are to be cut into hips, ridges, etc., unless noted as over-built.
- 5.2 Collar ties shall be 2x6 @ 48" o/c at all ridges unless noted otherwise and located a minimum 3' below the ridge. Collar ties may be closer to ridge if alternate bracing provided. Vaulted ceilings require special collar tie details or structural ridge beam. See plans as required.
- 5.3 A minimum of three collar ties shall be used at all ridges even if two ties must be put on one set of rafters.
- 5.4 All hips and ridges are a size larger than the rafters framing into them unless noted otherwise.
- 5.5 All hogs on ceiling joists or rafters are 8' long 2-2x6 hog troughs unless noted otherwise. Rafters may be spliced over hogs.
- 5.6 Gable end framing must be braced parallel to ridges with a minimum of 2x6 diagonal braces @ 6' o/c along the gable wall to the interior ceiling joists. Braces are to bear on 2-2x6 hogs and to gable wall at approximately mid-height of gable wall. Braces shall be at approximately a 45° angle. Other bracing may be used if it meets the Engineer's approval.
- 5.7 Carry braces to partitions or beams below. Never brace rafter hogs to 2-2x6 hogs on ceiling joists, unless shown on plans.
- 5.8 Ceiling joists when erected parallel to rafters must be sistered to rafters and nailed with 3-16d nails at each rafter. If a kneewall is used and ceiling joists cannot touch rafters, then rafters must be braced to the ceiling joists with 2x4 diagonal rafter ties spaced @ 48" o/c. Reverse collar ties may be used behind kneewalls.
- 5.9 Roof Plan Legend:
- A.  or  Indicates location of roof brace at rafter level.
 - B.  Arrow away from brace point indicates direction of roof brace to partition, beam or other brace point below.
 - C.  Arrow into brace point indicates a vertical or almost vertical roof brace to partition, beam or other brace point below.
 - D. All roof braces are 2-2x4 "T" nailed with 16d nails @ 9" o/c vertically from top to bottom. All braces longer than 10' must be braced horizontally in two directions at mid-height or be increased to 2-2x6s.
 - E. Maximum spacing of roof braces is to be as follows:
 - i. For 2-2x6 hog 6'-0" o/c
 - ii. For 2-2x8 hog 7'-6" o/c

6. WALL BRACING PER R 602.10

This structure has been analyzed by the professional engineer of record for lateral loading. It has been designed using continuous sheathing fastened to the exterior wall framing with 8d nails at 6" on center on edge and 12" on center in the field, to meet and exceed the intent of The 2018 North Carolina Residential Building Code. Where braced wall lines require additional reinforcing, engineered walls sections and hold downs have been provided.

All 800# hold downs are to be Simpson LSTA15 or MSTA15 vertical straps fastened to a minimum of a two stud pocket and the floor band.

EMF- Engineered Moment Frame



STRUCTURAL
ENGINEER
SUSTAINABLE ENGINEERING &
EFFICIENT DESIGNS, PLLC.
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CHARLOTTE, NC 28267-1018
SEAL FOR
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BUILDER:
ALLEN DUBSON
ASSOCIATES, INC.

PROJECT NAME AND ADDRESS

WILMORE #4
CHARLOTTE, NC

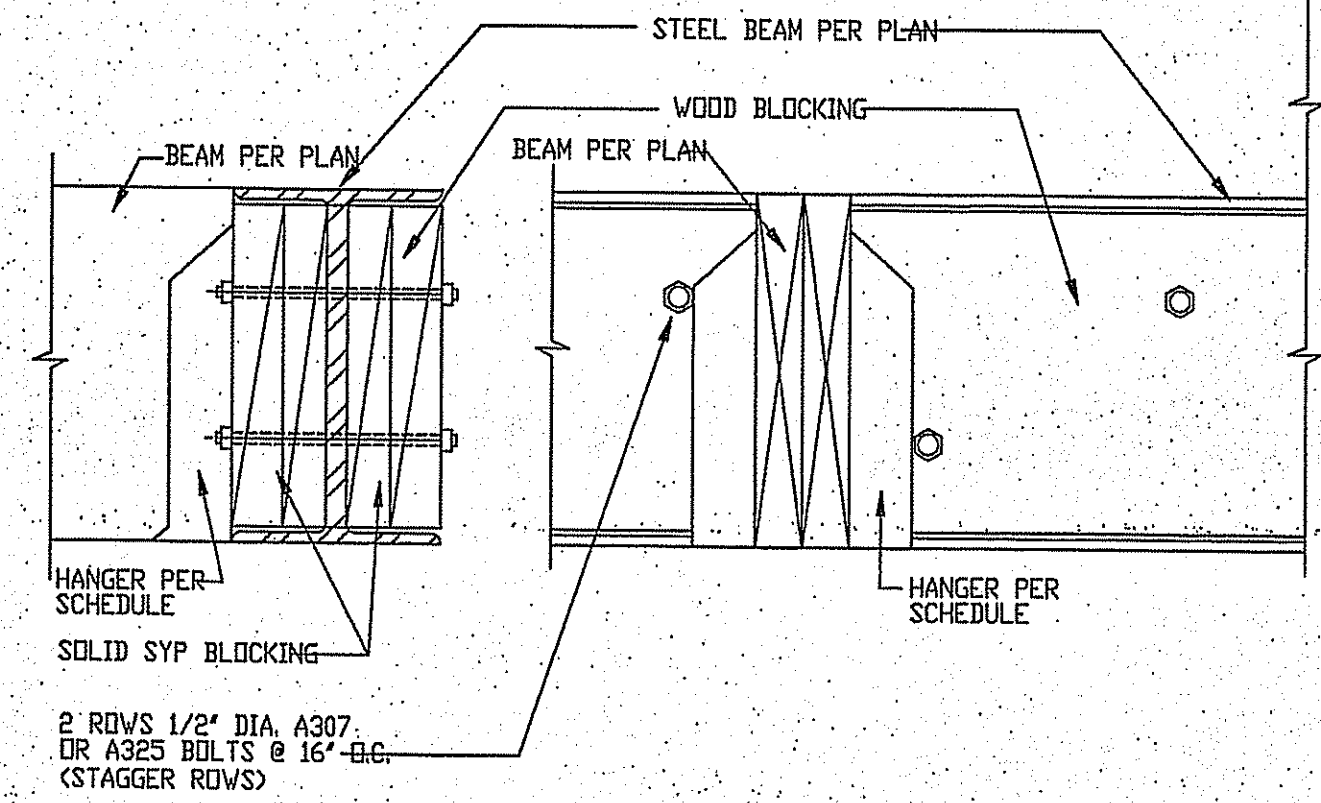
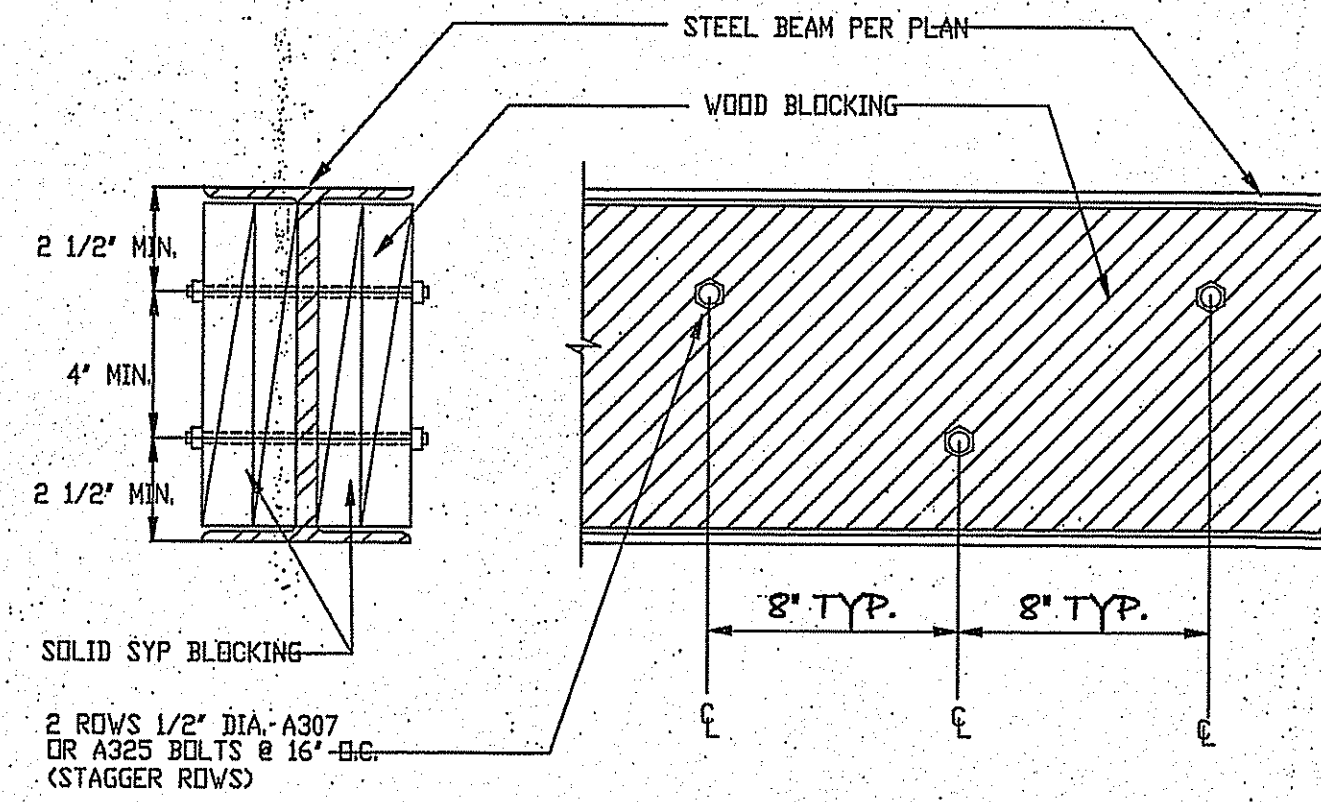
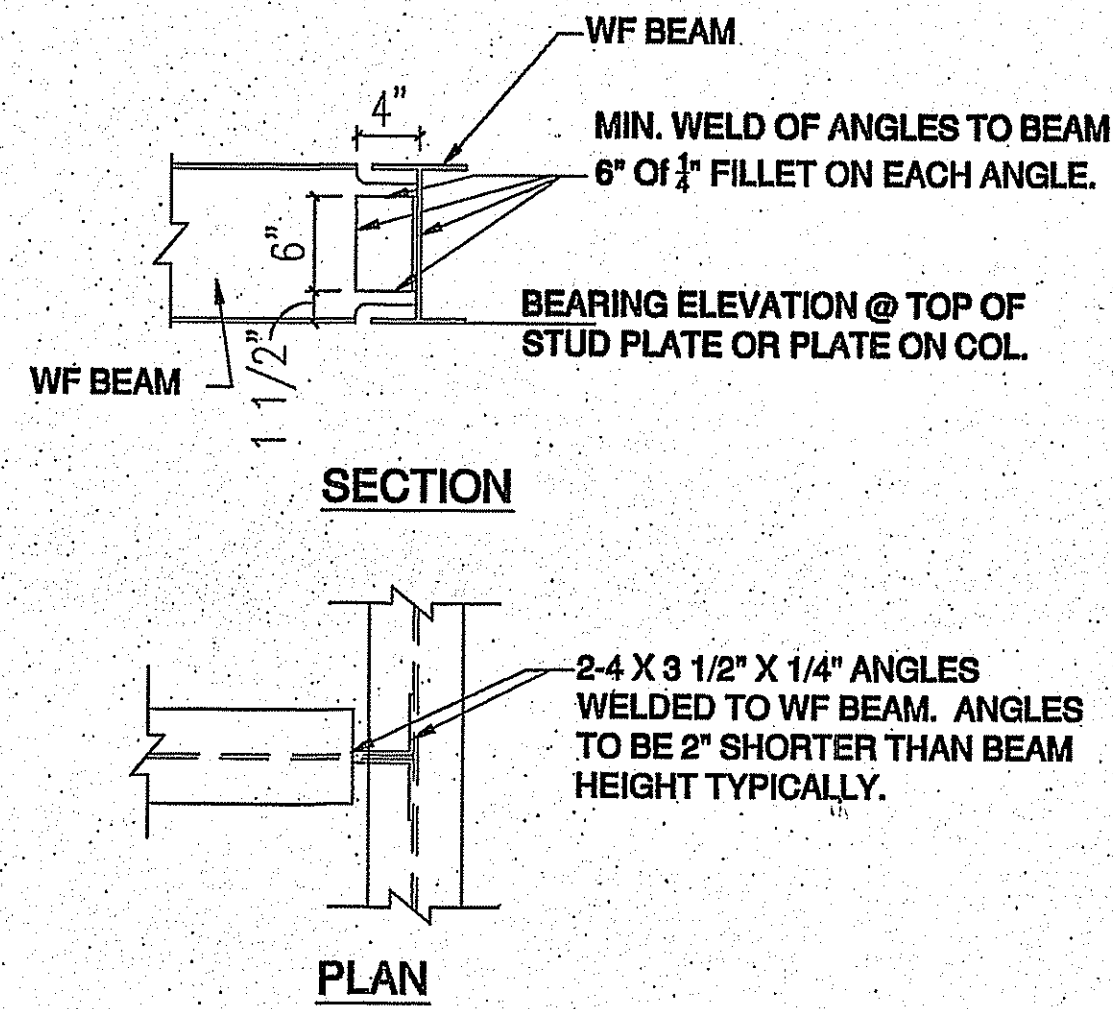
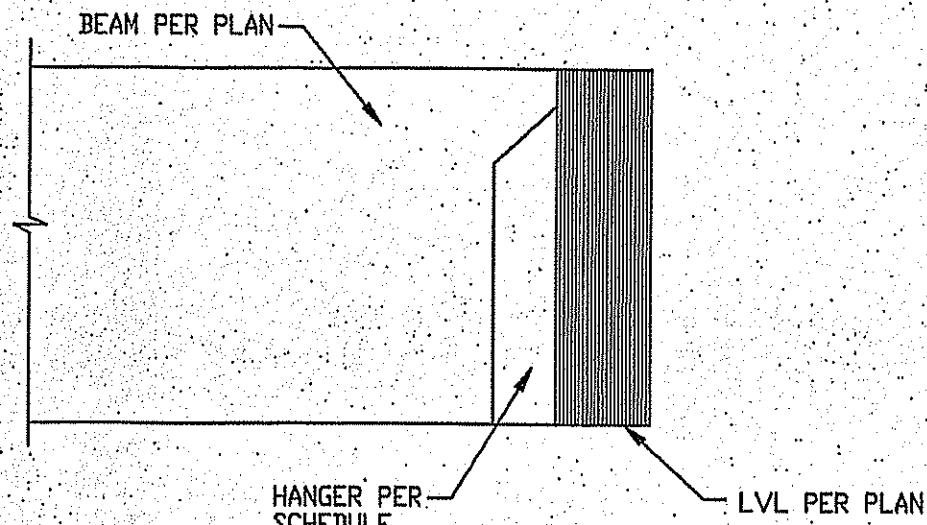
SEED
SUSTAINABLE ENGINEERING & EFFICIENT DESIGNS, PLLC.

DRAWING TITLE:

GENERAL NOTES

DATE:
JUNE 8, 2017

SHEET NO.
SGN



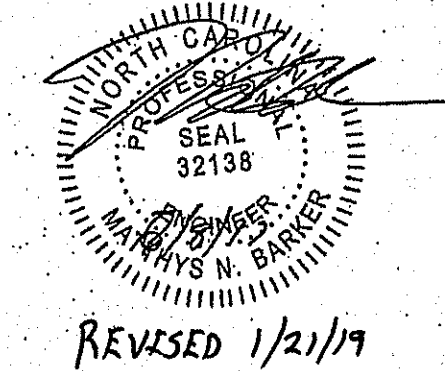
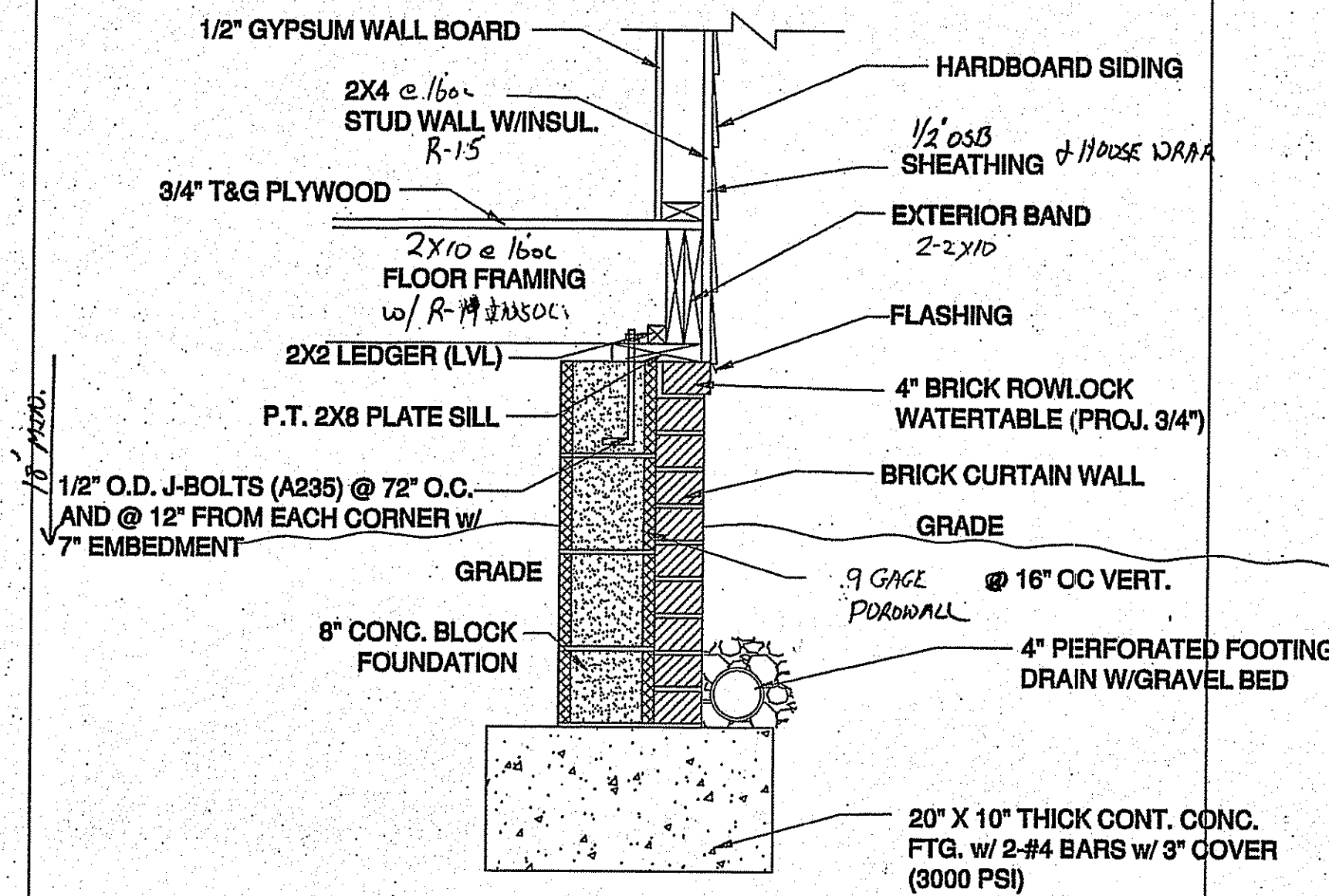
1 BEAM TO LVL CONNECTION DETAIL
SD1 SCALE= NTS

2 STEEL TO STEEL CONNECTION DETAIL
SD1 SCALE= NTS
N/A

3 STEEL BEAM WEB BLOCKING DETAIL
SD1 SCALE= NTS
N/A

4 BEAM TO STEEL BEAM CONNECTION DETAIL
SD1 SCALE= NTS
N/A

TYPICAL HANGERS FOR JOISTS AND BEAMS	
MEMBER	HANGER
2X8	LUS28
2X10	LUS210
2X12	LUS212
2-2X8	HUS28-2
2-2X10	HUS210-2
2-2X12	HUS212-2
3-2X8	LUS28-3
3-2X10	LUS210-3
3-2X12	HUS212-3 MIN
2-1 3/4" x 8 1/4" LVL	HGUS410
2-1 3/4" x 11 7/8" LVL	HGUS412
2-1 3/4" x 14" LVL	HGUS414
2-1 3/4" x 16" LVL	HGUS414
2-1 3/4" x 18" LVL	HGUS414
3-1 3/4" x 8 1/4" LVL	HGUS5.50/10
3-1 3/4" x 11 7/8" LVL	HGUS5.50/12
3-1 3/4" x 14" LVL	HGUS5.50/14
3-1 3/4" x 16" LVL	HGUS5.50/14
3-1 3/4" x 18" LVL	HGUS5.50/14
4-1 3/4" x 8 1/4" LVL	HGUS7.25/10
4-1 3/4" x 11 7/8" LVL	HGUS7.25/12
4-1 3/4" x 14" LVL	HGUS7.25/14
4-1 3/4" x 16" LVL	HGUS7.25/14
4-1 3/4" x 18" LVL	HGUS7.25/14



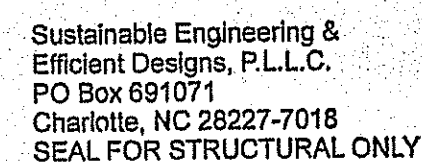
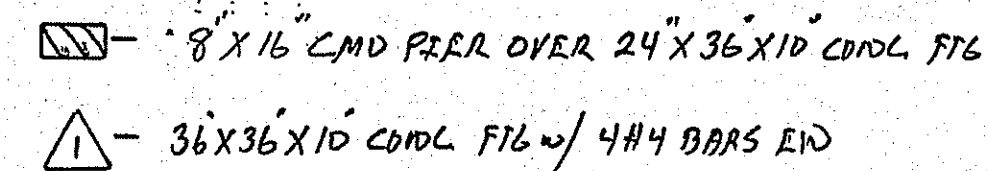
5 HANGER SCHEDULE
SD1 SCALE= NTS

6 CRAWLSPACE FOUNDATION DETAIL
SD1 SCALE= NTS

1. DRAWINGS ARE NOT TO BE SCALED; DIMENSIONS IN QUESTION SHALL BE CLARIFIED BY ARCHITECT.
2. ALL EXTERIOR DIMENSIONS ARE SHOWN TO THE OUTSIDE FACE OF STUD; UNLESS NOTED OTHERWISE.
3. ALL INTERIOR DIMENSIONS ARE SHOWN TO THE INSIDE FACE OF STUD; UNLESS NOTED OTHERWISE.
4. ALL INTERIOR WALLS ARE ASSUMED TO BE 5-1/2" WOOD STUDS; UNLESS NOTED OTHERWISE.
5. ALL FINISH OR WOOD WALLS ARE ASSUMED TO BE 5-1/2" WOOD STUDS (+PLUS 1/2" EXTERIOR WALL SHEATHING) ; UNLESS NOTED OTHERWISE.
6. ALL DOORS TO BE CENTERED; UNLESS NOTED OTHERWISE.
7. PROVIDE WOOD BLOCKING IN WALLS FOR MOUNTING OF ALL CABINETS, TOILET ACCESSORIES AND OTHER WALL MOUNTED ITEMS.
8. ALL CABINERY TO BE DESIGNED BY OTHERS AND SHALL MEET ALL APPLICABLE ACCESSIBILITY CODES (IF REQUIRED).
9. ALL FINISH AND OR GEL COATS TO BE APPROVED BY ARCHITECT/IC.
10. NUMBER OF EXTERIOR RISERS TO BE FIELD VERIFIED; AT LOCATIONS WHERE 4 OR MORE ARE REQUIRED A HANDRAIL WILL ALSO BE REQUIRED.
11. PROVIDE TERMITE CHEMICAL AT FOUNDATION; AS REQUIRED.
12. MINIMUM 22-1/2" (w) x 64-1/2" (l) ATTIC ACCESS DOOR w/ FUL DOWN LADDER TO BE DETERMINED ON SITE.
13. HVAC RETURN (S) TO BE DETERMINED ON SITE.
14. ALL COUNTERTOPS TO BE 96" A.F.F., UNLESS NOTED OTHERWISE.
15. ALL DOOR HEIGHTS ARE SHOWN ON PLANS.

1. STEEL BEAMS MUST HAVE (5) 3/4" STUD JACKS UNDER EACH END SUPPORT; UNLESS NOTED OTHERWISE.
2. MICRO-LAM BEAMS MUST HAVE (3) 2x4 STUD JACKS UNDER EACH END SUPPORT; UNLESS NOTED OTHERWISE.
3. ALL BRICK OVER LOWER ROOFS MUST HAVE ANGLE WITH STOPS LAG SCREWS TO STUDS ABOVE AND ACCORDANCE WITH DETAIL.
4. ALL WOOD JOISTS AND OPEN JOISTS MUST BE BRACED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS PLUS DETAILS SHOWN ON PLANS.
5. ALL ROOF BRACING MUST HAVE 2x4 STUDS FROM PLATE TO FLOORING OR BEAM BELOW THEM AT ALL FLOORS. NO BRACES ON CEILING PLATE WITHOUT JOIST DRIVEN THROUGH THEM.
6. WHERE PARTITIONS FALL BETWEEN FLOOR TRUSSES, 2x4" LADDERS @ 16"o.c. MUST BE PLACED PERPENDICULAR TO THE TRUSSES TO SUPPORT THE PLYWOOD DECKING.
7. ON ALL OPEN WEB FLOOR TRUSSES OVER A 10' SPAN A MIN. SINGLE LINE OF 2x4" SHALL BE NAILED TO DIAGONAL MEMBERS OR VERTICAL MEMBERS IN THE APPROPRIATE MID-SPAN AREA TO DISBURGE LOADS.
8. WHERE CEILING JOISTS ARE PARALLEL TO EXTERIOR WALLS AND RAFTERS BARE ON STUD WALL, TOP PLATE ADJUSTED TO CEILING JOISTS, BRACE RAFTERS AND TOP PLATE TO 2x6 HOGS 6" LONG (MIN.) ON 6" CENTERS ALONG LENGTH OF CEILING JOISTS.
9. ALL 2-STORY OPEN GREAT ROOMS, LIVING ROOMS, WITH 2 OR MORE ADJACENT OPENINGS OF 3' OR LESS MUST USE A 3-1/2"x12"x12" STEEL ANGLE VERTICALLY FROM FLOOR TO TOP PLATE LAGGED TO KING STUDS WITH (3) 6"x3" LAGS @ 24"o.c. VERTICALLY AND LAGGED TO FLOOR AND TO TOP PLATE WITH (1) 3"x6" LAG @ 24"o.c. HORIZONTALLY. MULTIPLE OPENINGS WITH 3' OR LESS SPACE BETWEEN ROUGH OPENINGS SHALL HAVE AT LEAST (1) STEEL ANGLE VERTICALLY IN EACH MULTIPLE SPACE. THE SHEATHING ON THIS STEEL REINFORCED PARTITION SHALL BE 1/2" PLYWOOD, NO OTHER SHEATHING SHALL BE PERMITTED.

1. TREADS SHALL BE 9" WIDE PLUS A 1" NOSING
2. RISERS SHALL BE FIELD VERIFIED (NOT TO EXCEED 8-1/4")
3. STAIR SHALL BE 36" WIDE CLEAR MINIMUM AND SHALL HAVE A HANDRAIL AT A HEIGHT ABOVE THE NOSING OF 36"



* ALL FIRST FLOOR FURNITURE IS 2X10 @ 6" on end
DJ = DOUBLE JOIST
PROVIDE SOLID WOOD BLOCKING UNDER ALL PT LOADS
ALL HAND DRIVEN DIMENSIONED ARE SCALED &
ROUNDED TO THE NEAREST 1/4 FOOT AND
PROVIDE MIN 18" X 24" CRAWLSPACE ACCESS

* FRONT PORCH FOOTING IS TO BE FORMED ON GRADE & THEN BALAFILLED TO BURY IT 12" BELOW GRADE TO NOT AFFECT TREE

MSJ DRAFTING

1871 POACHE ROAD
LINCOLTON, NORTH CAROLINA

TELEPHONE (919) 732-4844
FAX (919) 732-1720

R. ALLEN
CONSTRUCTION

A NEW RESIDENCE AT:
WILMORE #4
CHARLOTTE, NC

PROJECT NO. WILMORE04

DATE: NOVEMBER 21, 216

DRAWN BY: **MSB**

CHECKED BY: MSB

REVISIONS:

NO.	DATE:	BY

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COMPUTER REFERENCE NUMBER
WILMORE0401 .125

SHEET NO.

52.0 OF 4

MEMBERS	HANGER
2x8	LUS28
2x10	LUS210
2x12	LUS210
(2) 2x8	HUS28-2
(2) 2x10	HUS210-2
(2) 2x12	HUS212-2
2x8	LUS28-3
2x10	LUS210-3
2x12	HUS213-3 MIN.
(2) 3/4"x8-1/2" LVL	HGUS410
(2) 3/4"x8-1/2" LVL	HGUS410
(2) 3/4"x11-1/4" LVL	HGUS412
(2) 3/4"x11-7/8" LVL	HGUS412
(2) 3/4"x14" LVL	HGUS414
(2) 3/4"x16" LVL	HGUS414
(2) 3/4"x18" LVL	HGUS414
(3) 3/4"x8-1/4" LVL	HGUS55010
(3) 3/4"x8-1/2" LVL	HGUS55010
(3) 3/4"x11-1/4" LVL	HGUS55012
(3) 3/4"x11-7/8" LVL	HGUS55012
(3) 3/4"x14" LVL	HGUS55014
(3) 3/4"x16" LVL	HGUS55014
(3) 3/4"x18" LVL	HGUS55014
(4) 3/4"x9-1/4" LVL	HGUS72510
(4) 3/4"x9-1/2" LVL	HGUS72510
(4) 3/4"x11-1/4" LVL	HGUS72512
(4) 3/4"x11-7/8" LVL	HGUS72512
(4) 3/4"x14" LVL	HGUS72514
(4) 3/4"x16" LVL	HGUS72514
(4) 3/4"x18" LVL	HGUS72514

SIZES	EXTERIOR SPANS	INTERIOR SPANS	JACK STUDS
(2) 2x6's	< 2'-0"	< 2'-6"	1
(2) 2x8's	2'-0" thru 3'-0"	2'-6" thru 3'-6"	2
(2) 2x10's	3'-0" thru 5'-0"	3'-6" thru 6'-6"	2
SEE PLAN	5'-0"<	6'-6"<	SEE PLAN

EXTERIOR WALL HEIGHT	STUD SIZE AND SPACING
H < 10'-0"	2x4 @ 16" o.c.
10'-0" < H < 11'-0"	2x4 @ 12" o.c.
10'-0" < H < 11'-0"	2x6 @ 16" o.c.
H > 18'-0"	CONSULT ENGINEER

5/8"

8 1/2"

8 1/2"

4"

1'-0"

1'-0"

1'-0"

1'-0"

1'-0"

3 OR 4 LVL's (PER PLAN)

1/2" Ø THROUGH BOLT (TYP)

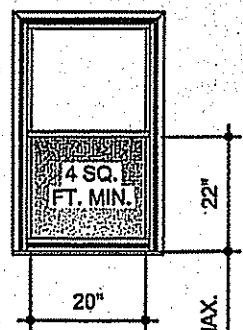
1. DRAWINGS ARE NOT TO BE SCALED; DIMENSIONS IN QUESTION SHALL BE CLARIFIED BY ARCHITECT.
2. ALL EXTERIOR DIMENSIONS ARE SHOWN TO THE OUTSIDE FACE OF STUD; UNLESS NOTED OTHERWISE.
3. ALL INTERIOR DIMENSIONS ARE SHOWN TO THE INSIDE FACE OF STUD; UNLESS NOTED OTHERWISE.
4. ALL INTERIOR WALLS ARE ASSUMED TO BE 3-1/2" WOOD STUDS (PLUS 1/2" EXTERIOR WALL SHEATHING).
5. ALL EXTERIOR WALLS ARE ASSUMED TO BE 3-1/2" WOOD STUDS (PLUS 1/2" EXTERIOR WALL SHEATHING).
6. ALL DOORS TO BE CENTERED; UNLESS NOTED OTHERWISE.
7. PROVIDE WOOD BLOCKING IN WALLS FOR MOUNTING OF ALL CABINETS, TOILET ACCESSORIES AND OTHER WALL MOUNTED ITEMS.
8. ALL CABINETS TO BE DESIGNED BY OTHERS AND SHALL MEET ALL APPLICABLE ACCESSIBILITY CODES (IF REQUIRED).
9. ALL ACCESSIBLE TOILETS TO BE PROVIDED BY ARCHITECT/GEN.
10. NUMBER OF EXTERIOR RISERS TO BE FIELD VERIFIED; AT LOCATIONS WHERE 4 OR MORE ARE REQUIRED A HANDRAIL WILL ALSO BE REQUIRED.
11. PROVIDE THERMATE CHIMNEY AT FOUNDATION; AS REQUIRED.
12. MINIMUM 22-1/2" (W) X 54-1/2" (T) ATTIC ACCESS DOOR W/ PULL DOWN LADDER TO BE DETERMINED ON SITE.
13. HVAC RETURN (S) TO BE DETERMINED ON SITE.
14. ALL COUNTERTOPS TO BE 36" A.F.F.; UNLESS NOTED OTHERWISE.
15. ALL DOOR HEIGHTS ARE SHOWN ON PLANS.

1. STEEL BEAMS MUST HAVE (3) 2x4 STUD JACKS UNDER EACH END SUPPORT; UNLESS NOTED OTHERWISE.
2. MICROLAM BEAMS MUST HAVE (3) 2x4 STUD JACKS UNDER EACH END SUPPORT; UNLESS NOTED OTHERWISE.
3. ALL BRICK OVER LOWER ROOF MUST HAVE ANGLE WITH STOPS LAP SCREWS TO STUDS ABOVE AND ACCORDANCE WITH DETAIL.
4. ALL WOOD JOISTS AND OPEN JOISTS MUST BE BRACED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS PLUS DETAILS SHOWN ON PLANS.
5. ALL RAFTER BRACES MUST HAVE 2 STUDS FROM PLATE TO FOUNDATION OR BEAM BELOW THEM AT ALL FLOORS. NO BRACES ON CEILING PLATE.
6. WHERE PARTITIONS FALL BETWEEN FLOOR TRUSSES, 2"x4" LADDERS @ 16" o.c. MUST BE PLACED PERPENDICULAR TO THE TRUSSES TO SUPPORT THE PLYWOOD DECKING.
7. ON ALL OPEN WEB FLOOR TRUSSES OVER A 10' SPAN A MIN. SINGLE LINE OF 2"x4" SHALL BE NAILED TO DIAGONAL MEMBERS OR VERTICAL MEMBERS IN THE APPROXIMATE MID-SPAN AS A LOAD DISTRIBUTION MEMBER.
8. WHERE CEILING JOISTS ARE BRACED TO THE STUD WALL, THE BRACE ON STUD WALL TOP PLATE ADJACENT TO CEILING JOISTS, BRACE RAFTERS AND TOP PLATE TO 2x6 GUS 6' LONG (MIN) ON 6" CENTERS ALONG LENGTH OF CEILING JOISTS.
9. ALL 2-STORY OPEN GREAT ROOMS, LIVING ROOMS, WITH 2 OR MORE ADJACENT OPENINGS OF 3' OR LESS MUST USE A 1-1/2"x2-1/2"x12" STEEL ANGLE VERTICALLY FROM FLOOR TO TOP PLATE LAGGED TO KING STUDS WITH (3) 6"x3" LAGS @ 24" o.c. VERTICALLY AND LAGGED TO FLOOR AND STUDS WITH (1) 6"x3" LAG @ 24" o.c. THROUGH A 1/4" FLAT PLATE AT THE TOP AND BOTTOM. MULTIPLE OPENINGS WITH 3' OR LESS SPACE BETWEEN OPENINGS MUST HAVE AT LEAST (1) STEEL ANGLE VERTICALLY IN EACH MULLION SPACE.
10. PARTITION SHALL BE 1/2" PLYWOOD, AND OTHER SHEATHING SHALL BE PERMITTED.

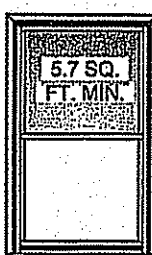
1. TREADS SHALL BE 9" WIDE PLUS A 1" NOSING
2. RISERS SHALL BE FIELD VERIFIED (NOT TO EXCEED 8-1/4")
3. STAIR SHALL BE 36" WIDE CLEAR MINIMUM AND SHALL HAVE A HANDRAIL AT A HEIGHT ABOVE THE NOSING OF 36"

NORC 2012 310.1
EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE EXTERIOR WINDOW OR EXTERIOR DOOR APPROVED FOR EMERGENCY EGRESS OR RESCUE. THE UNITS MUST BE OPERABLE FROM THE INSIDE TO A FULL CLEAR OPENING WITHOUT THE USE OF A KEY OR TOOL. WHERE WINDOWS ARE PROVIDED AS A MEANS OF EGRESS OR RESCUE, THEY SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44" ABOVE THE FLOOR.

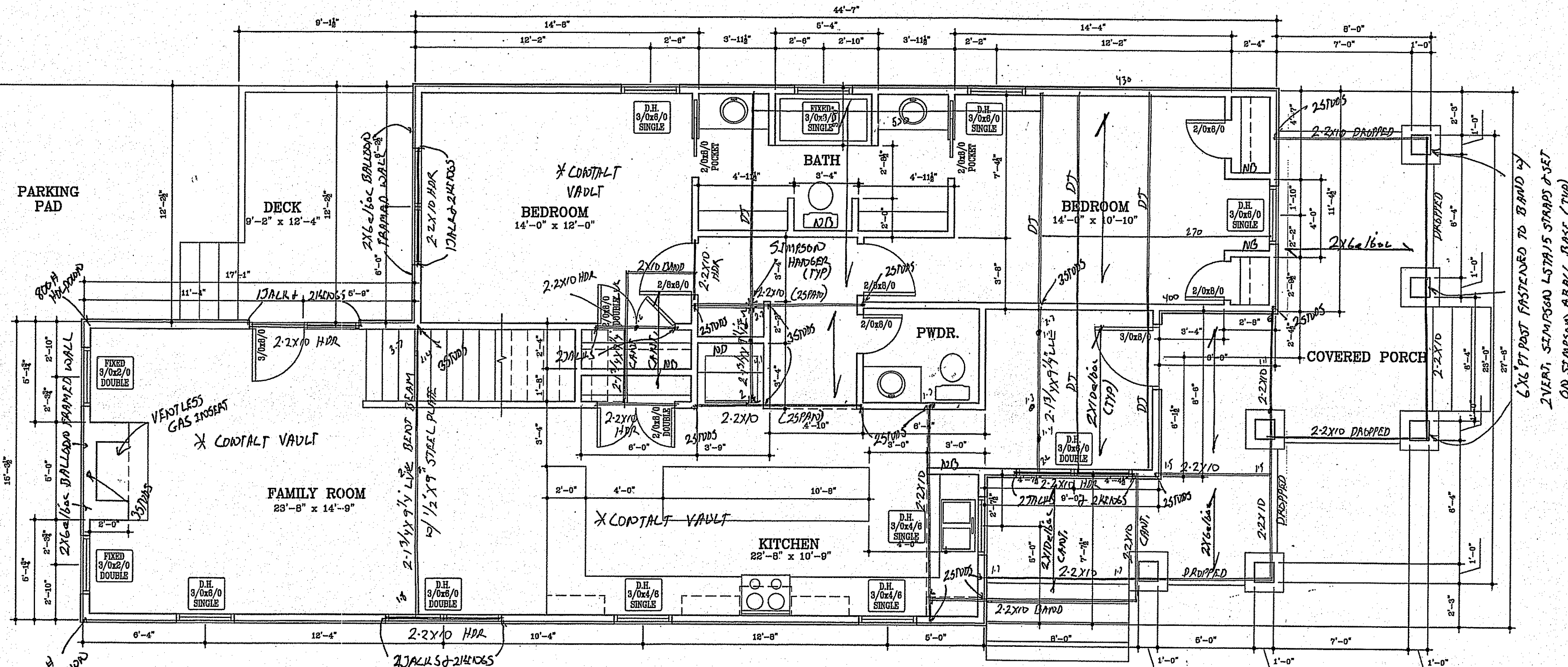
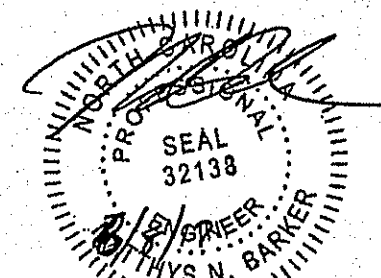
NCRC 310.1.1
THE MIN. NET CLEAR
OPENING HEIGHT DIMENSION
SHALL BE 22". THE MIN.
NET CLEAR OPENING WIDTH
DIMENSION SHALL BE 20".
THE NET CLEAR OPENING
AREA SHALL NOT BE LESS
THAN 4 SQ. FT.



NCRC 310.1.1
EACH EGRESS WINDOW FROM SLEEPING ROOMS MUST HAVE A MIN. TOTAL GLASS AREA OF NOT LESS THAN 6 SQ. FT. IN THE CASE OF A GROUND FLOOR WINDOW AND NOT LESS THAN 5.7 SQ. FT. IN THE CASE OF A SECOND STORY WINDOW.

[illegible]

* ALL SECOND FLOOR FRAMING IS 2X10 @ 16" O.C. AND
DJ = DOUBLE JOIST
CANT = CANTILEVERED
ALL FIRST FLOOR JOISTS ARE 2X10 w/ JALK & JACK STUDS AND
PROVIDE SOLID WOOD BLOCKING & STUDS UNDER ALL
PT LOADS AND
PROVIDE 2 STUDS UNDER ALL DJ AND
NB: NO. BEARING
WALL BRACING PROVIDED BY CONT. SHEATHING
FASTENED w/ 8d NAILS @ 6" O.C. ON EDGE & 12" O.C.
IN THE FIELD TO MEET & EXCEED THE INTENT
OF SECTION R602.10 AND


$$1/4'' = 1'-0''$$


REVISED 1/21/19
Sustainable Engineering &
Efficient Designs, P.L.L.C.
PO Box 691071
Charlotte, NC 28227-7018
SEAL FOR STRUCTURAL ONLY

R. ALLEN CONSTRUCTION

A NEW RESIDENCE AT:
WILMORE #4
CHARLOTTE, NC

PROJECT NO. WILMORE04

DATE: NOVEMBER 21, 216

DRAWN BY: MSB

CHECKED BY: MSR

REVISIONS:

NO. DATE: BY:

<p>1. $\frac{1}{2}$</p> <p>2. $\frac{1}{3}$</p> <p>3. $\frac{1}{4}$</p> <p>4. $\frac{1}{5}$</p> <p>5. $\frac{1}{6}$</p> <p>6. $\frac{1}{7}$</p> <p>7. $\frac{1}{8}$</p> <p>8. $\frac{1}{9}$</p> <p>9. $\frac{1}{10}$</p> <p>10. $\frac{1}{11}$</p> <p>11. $\frac{1}{12}$</p> <p>12. $\frac{1}{13}$</p> <p>13. $\frac{1}{14}$</p> <p>14. $\frac{1}{15}$</p> <p>15. $\frac{1}{16}$</p> <p>16. $\frac{1}{17}$</p> <p>17. $\frac{1}{18}$</p> <p>18. $\frac{1}{19}$</p> <p>19. $\frac{1}{20}$</p> <p>20. $\frac{1}{21}$</p> <p>21. $\frac{1}{22}$</p> <p>22. $\frac{1}{23}$</p> <p>23. $\frac{1}{24}$</p> <p>24. $\frac{1}{25}$</p> <p>25. $\frac{1}{26}$</p> <p>26. $\frac{1}{27}$</p> <p>27. $\frac{1}{28}$</p> <p>28. $\frac{1}{29}$</p> <p>29. $\frac{1}{30}$</p> <p>30. $\frac{1}{31}$</p> <p>31. $\frac{1}{32}$</p> <p>32. $\frac{1}{33}$</p> <p>33. $\frac{1}{34}$</p> <p>34. $\frac{1}{35}$</p> <p>35. $\frac{1}{36}$</p> <p>36. $\frac{1}{37}$</p> <p>37. $\frac{1}{38}$</p> <p>38. $\frac{1}{39}$</p> <p>39. $\frac{1}{40}$</p> 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COMPUTER REFERENCE NUMB.
WILMORE0401 .125

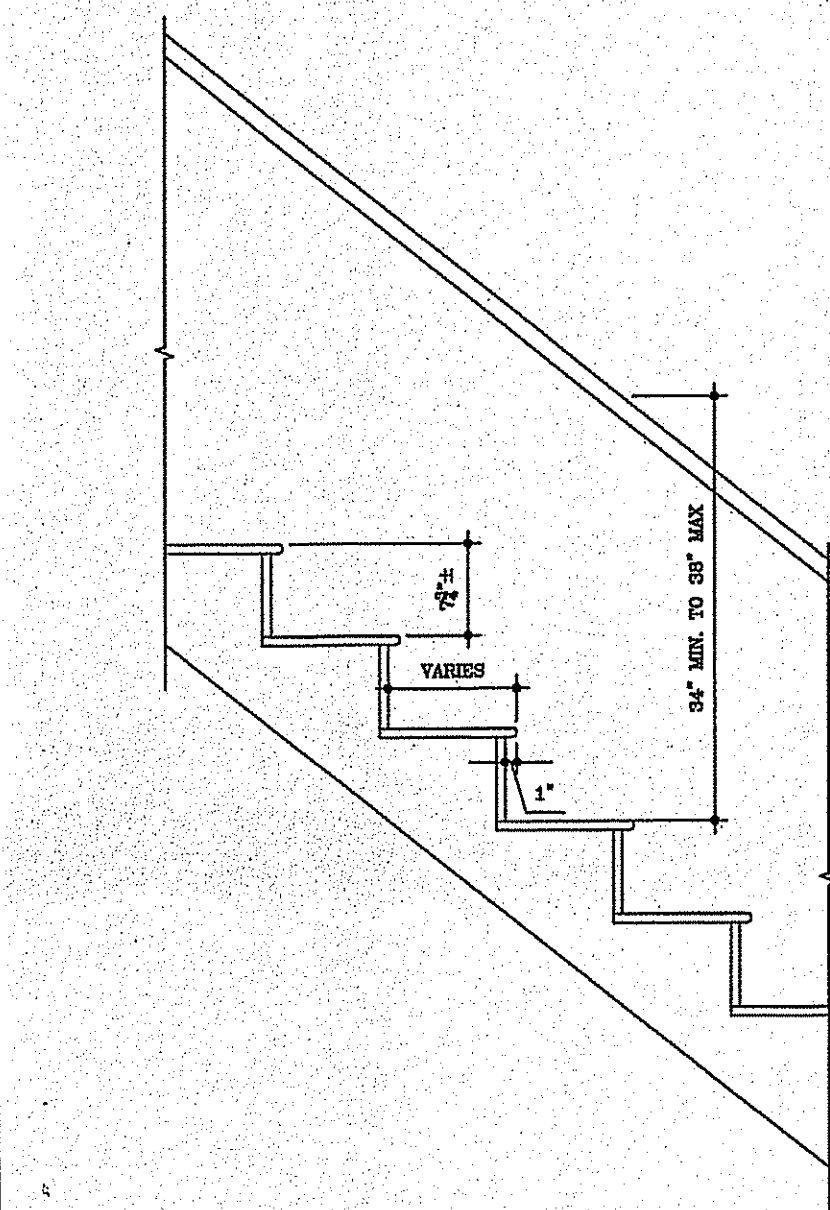
SHEET NO. 10

51.0 OF

TYP. HANGERS FOR JOIST & BEAMS	
NOTE: ALL HANGERS BY SIMPSON STRONG TIE CO., INC. (BRAND-NAME EQUIVALENTS ACCEPTABLE)	
MEMBERS	HANGER
2x8	LUS28
2x10	LUS210
2x12	LUS210
(2) 2x8	HUS28-2
(2) 2x10	HUS210-2
(2) 2x12	HUS212-2
(3) 2x8	LUS28-3
(3) 2x10	LUS210-3
(3) 2x12	HUS212-3 MIN.
(2) 1-3/4"x8-1/4" LVL	HGUS410
(2) 1-3/4"x8-1/2" LVL	HGUS410
(2) 1-3/4"x11-1/4" LVL	HGUS412
(2) 1-3/4"x11-7/8" LVL	HGUS412
(2) 1-3/4"x14" LVL	HGUS414
(2) 1-3/4"x16" LVL	HGUS414
(2) 1-3/4"x18" LVL	HGUS414
(3) 1-3/4"x8-1/4" LVL	HGUS5.5010
(3) 1-3/4"x8-1/2" LVL	HGUS5.5010
(3) 1-3/4"x11-1/4" LVL	HGUS5.5012
(3) 1-3/4"x11-7/8" LVL	HGUS5.5012
(3) 1-3/4"x14" LVL	HGUS5.5014
(3) 1-3/4"x16" LVL	HGUS5.5014
(3) 1-3/4"x18" LVL	HGUS5.5014
(4) 1-3/4"x8-1/4" LVL	HGUS7.2510
(4) 1-3/4"x8-1/2" LVL	HGUS7.2510
(4) 1-3/4"x11-1/4" LVL	HGUS7.2512
(4) 1-3/4"x11-7/8" LVL	HGUS7.2512
(4) 1-3/4"x14" LVL	HGUS7.2514
(4) 1-3/4"x16" LVL	HGUS7.2514
(4) 1-3/4"x18" LVL	HGUS7.2514

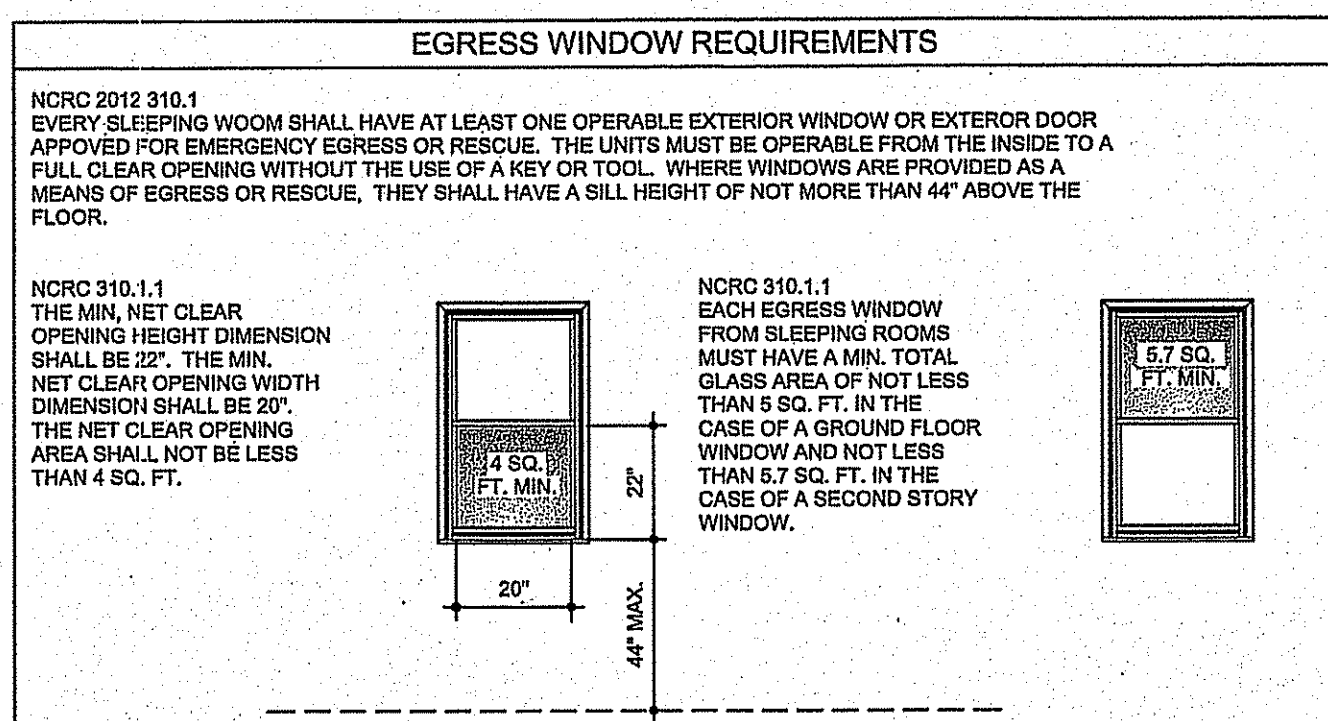
HEADER SIZE REQUIREMENTS			
SIZES	EXTERIOR SPANS	INTERIOR SPANS	JACK STUDS
(2) 2x8s	< 2'-0"	< 2'-0"	1
(2) 2x8s	2'-0" thru 3'-0"	2'-0" thru 3'-0"	2
(2) 2x10s	3'-0" thru 5'-0"	3'-0" thru 5'-0"	2
SEE PLAN	5'-0" <	5'-6" <	SEE PLAN

WALL STUD REQUIREMENTS	
EXTERIOR WALL HEIGHT	STUD SIZE AND SPACING
H < 10'-0"	2x4 @ 16" o.c.
10'-0" < H < 11'-0"	2x4 @ 12" o.c.
10'-0" < H < 11'-0"	2x6 @ 16" o.c.
H > 18'-0"	CONSULT ENGINEER



102 TYP. STAIR DTL. 3/4" = 1'-0"
A1.1

- GENERAL PLAN NOTES
- DRAWINGS ARE NOT TO BE SCALED; DIMENSIONS IN QUESTION SHALL BE CLARIFIED BY ARCHITECT.
 - ALL EXTERIOR DIMENSIONS ARE SHOWN TO THE OUTSIDE FACE OF STUD; UNLESS NOTED OTHERWISE.
 - ALL INTERIOR WALLS ARE ASSUMED TO BE 5-1/2" WOOD STUDS; UNLESS NOTED OTHERWISE.
 - ALL EXTERIOR WALLS ARE ASSUMED TO BE 5-1/2" WOOD STUDS (PLUS 1/2" EXTERIOR WALL SHEATHING); UNLESS NOTED OTHERWISE.
 - ALL DOORS TO BE CENTERED; UNLESS NOTED OTHERWISE.
 - PROVIDE WOOD BLOCKING IN WALLS FOR MOUNTING OF ALL CABINETS, TOILET ACCESSORIES AND OTHER WALL MOUNTED ITEMS.
 - ALL CABINETRY TO BE DESIGNED BY OTHERS AND SHALL MEET ALL APPLICABLE ACCESSIBILITY CODES (IF REQUIRED).
 - ALL FINISH AND COLOR SELECTIONS TO BE APPROVED BY ARCHITECT/C.
 - NUMBER OF EXTERIOR RISERS TO BE FIELD VERIFIED; AT LOCATIONS WHERE 4 OR MORE ARE REQUIRED A HANDRAIL WILL ALSO BE REQUIRED.
 - PROVIDE TERMITE CHEMICAL AT FOUNDATION; AS REQUIRED.
 - MINIMUM 22-1/2" (W) x 54-1/2" (H) ATTIC ACCESS DOOR W/ PULL DOWN LADDER TO BE DETERMINED ON SITE.
 - HVAC RETURN (S) TO BE DETERMINED ON SITE.
 - ALL COUNTERTOPS TO BE 3/8" A.F.F.; UNLESS NOTED OTHERWISE.
 - ALL DOOR HEIGHTS ARE SHOWN ON PLANS.
- FRAMING CONSTRUCTION-OTHER THAN ROOF
- STEEL BEAMS MUST HAVE (3) 2x4 STUD JACKS UNDER EACH END SUPPORT; UNLESS NOTED OTHERWISE.
 - MICRO-LAM BEAMS MUST HAVE (3) 2x4 STUD JACKS UNDER EACH END SUPPORT; UNLESS NOTED OTHERWISE.
 - ALL BRICK OVER LOWER ROOFS MUST HAVE ANGLE WITH STOPS LAG SCREWS TO STUDS ABOVE AND ACCORDANCE WITH DETAIL.
 - ALL WOOD JOISTS AND OPEN JOISTS MUST BE BRACED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS PLUS DETAILS SHOWN ON PLANS.
 - ALL RAFTER BRACES MUST HAVE 2 STUDS FROM PLATE TO FOUNDATION OR BEAM BELOW THEM AT ALL FLOORS. NO BRACES ON CEILING PLATE WITHOUT STUDS DIRECTLY UNDER THEM.
 - WHERE PARTITIONS FALL BETWEEN FLOOR TRUSSES, 2x4 LADDERS @ 16" o.c. MUST BE PLACED PERPENDICULAR TO THE TRUSSES TO SUPPORT THE PLYWOOD DECKING.
 - ON ALL OPEN WEB FLOOR TRUSSES OVER A 10' SPAN A MIN. SINGLE LINE OF 2x4" SHALL BE NAILED TO DIAGONAL MEMBERS OR VERTICAL MEMBERS IN THE APPROXIMATE MID-SPAN AS A LOAD DISTRIBUTION MEMBER.
 - WHERE CLING JOISTS ARE PARALLEL TO EXTERIOR WALLS AND RAFTERS BEAR ON STUD WALL TOP PLATE ADJACENT TO CEILING JOISTS, BRACE RAFTERS AND TOP PLATE TO 2x6 HOGS 8' LONG (MIN) ON 8' CENTERS ALONG LENGTH OF CEILING JOISTS.
 - ALL 2-STORY OPEN GREAT ROOMS, LIVING ROOMS, WITH 2 OR MORE ADJACENT OPENINGS OF 3' OR LESS MUST USE A 3-1/2"x3-1/2"x1/2" STEEL ANGLE VERTICALLY FROM FLOOR TO TOP PLATE LAGGED TO KING STUDS WITH (3) 6x8" LAGS @ 24" o.c. VERTICALLY AND LAGGED TO FLOOR AND TOP PLATE WITH (1) 3/16"x2" LAG THROUGH A 1/4" PLATE AT THE TOP AND BOTTOM. MULTIPLE OPENINGS WITH 3' OR LESS SPACE BETWEEN ROUGH OPENINGS SHALL HAVE AT LEAST (1) STEEL ANGLE VERTICALLY IN EACH MULLION SPACE. THE SHEATHING ON THIS STEEL REINFORCED PARTITION SHALL BE 1/2" PLYWOOD, NO OTHER SHEATHING SHALL BE PERMITTED.
- STAIRWAYS
- TREADS SHALL BE 8" WIDE PLUS A 1" NOSING
 - RISERS SHALL BE FIELD VERIFIED (NOT TO EXCEED 8-1/4")
 - STAIR SHALL BE 36" WIDE CLEAR MINIMUM AND SHALL HAVE A HANDRAIL AT A HEIGHT ABOVE THE NOSING OF 36".

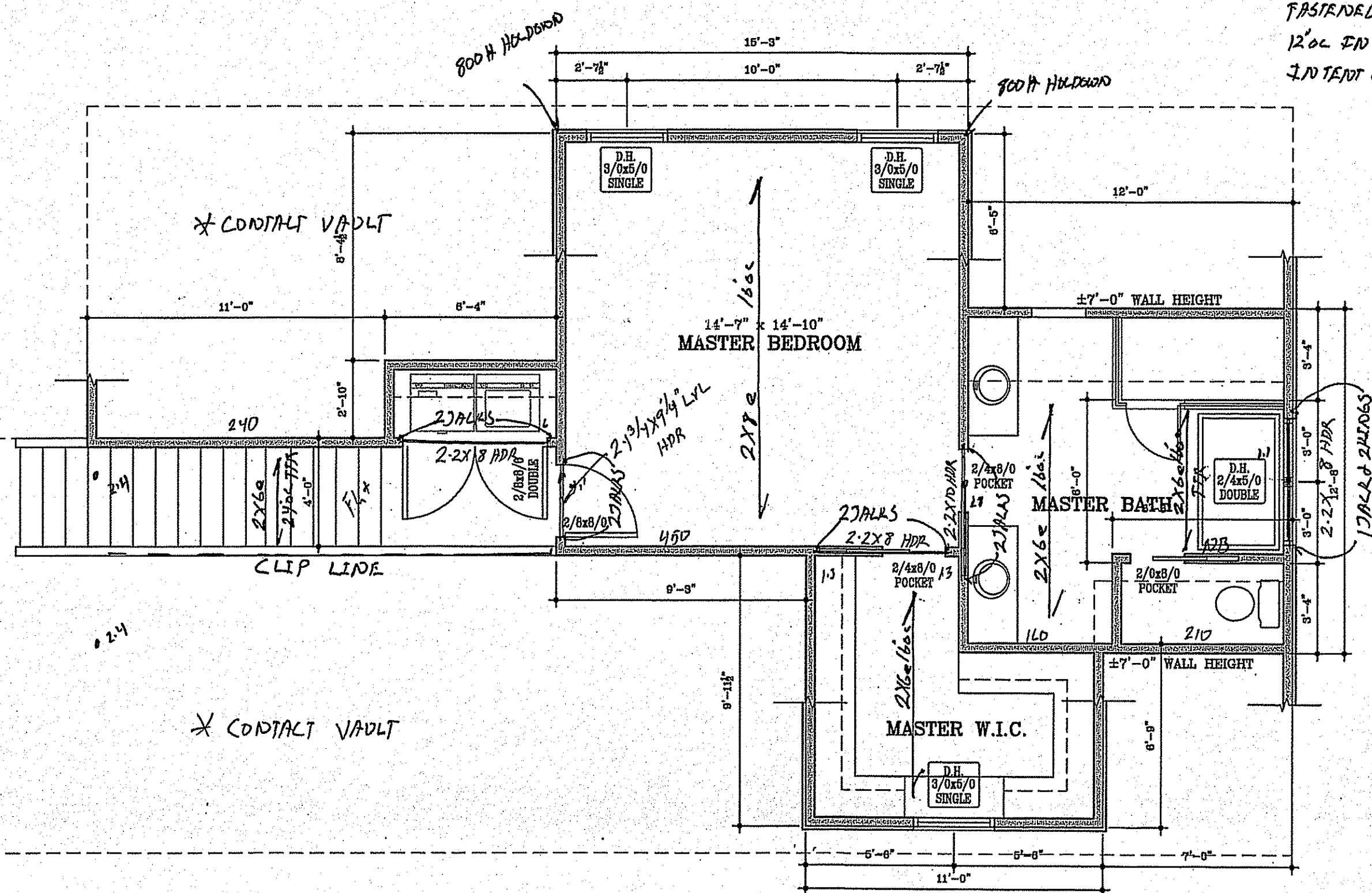


MAIN LEVEL	
HEATED SQUARE FOOT	1,322 SQ. FT.
DECK	122 SQ. FT.
COVERED FRONT PORCH	186 SQ. FT.
UPPER LEVEL	
HEATED SQUARE FOOT	576 SQ. FT.
TOTAL	
HEATED SQUARE FOOT	1,897 SQ. FT.
UNHEATED SQUARE FOOT	297 SQ. FT.

REVISSED 1/21/19

Sustainable Engineering & Efficient Designs, P.L.L.C.
PO Box 691071
Charlotte, NC 28227-7018
SEAL FOR STRUCTURAL ONLY

* ALL ATTIC FRAMING IS 2X8 @ 16" o.c.
TTR- TIED TO RAFTERS
ALL SECOND FLOOR HDRS ARE 2X8 w/ 13ALR
+ 1X106 STUD AND
FOUR DOWN CONTACT RAFTERS FOR INSULATION
OR SPRAY FOAM AND
FASTEN CONTACT RAFTERS TO EXTERIOR WALL
TOP PLATES w/ SIMPSON H2.5A HURRICANE
STRAPS @ 16" o.c.
NO NON-BEARING
WALL BRACING PROVIDED BY CDR. SARATHANG
FASTENED w/ 8d NAILS @ 6" o.c. ON EDGE &
12" o.c. IN THE FIELD TO MEET & EXCEED THE
INTENT OF SECT. 602.10 AND



101 UPPER LEVEL PLAN
A1.1

1/4" = 1'-0"

MSJDRAFTING

R. ALLEN WILMORE #4 CONSTRUCTION

A NEW RESIDENCE AT: WILMORE #4 CHARLOTTE, NC

PROJECT NO. WILMORE04

DATE: NOVEMBER 21, 2016

DRAWN BY: MSB

CHECKED BY: MSB

REVISIONS:

NO.	DATE:	BY

COMPUTER REFERENCE NUMBER
WILMORE0401 .125

SHEET NO. S1.1 OF 4

1871 FOREST ROAD
LONGLETON, NORTH CAROLINA

TELEPHONE (704) 798-3844
FAX (704) 798-3728

ROOF FRAMING RESIDENTIAL PLAN NOTES

1. RAFTERS TO BE 2x8 @ 16" o.c. UNLESS NOTED OTHERWISE.
2. ROOF SHEATHING OVER RAFTERS TO BE 1/2" NOMINAL ORIENTED STRAND BOARD (OSB) . ROOF SHEATHING OVER TRUSSES TO BE 5/8" NOMINAL (OSB) . NAIL PER MANUFACTURER'S RECOMMENDATIONS.
3. COLLAR (WIND) TIES TO BE 2x4 @ 4'-0" O/C AT ALL RIDGES. THREE COLLAR (WIND) TIES MINIMUM AT ALL RIDGES, EVEN IF TWO TIES MUST BE PUT ON ONE SET OF RAFTERS.
4. INDICATES LOCATION OF RAFTER BRACE AT RAFTER LEVEL.
5. INDICATES DIRECTION OF BRACE TO PARTITION / BEAM BELOW.
6. INDICATES VERTICAL OR ALMOST VERTICAL BRACE TO PARTITION / BEAM BELOW.
7. ALL BRACES TO BE 2-2x4 T-BRACES NAILED W/ 16d NAILS AT 9 INCHES O/C FULL LENGTH. BRACES LONGER THAN 10'-0" MUST BE BRACED HORIZONTALLY IN TWO OPPOSING DIRECTIONS U.N.O.
8. ALL HOGS ON CEILING JOISTS TO BE 2-2x6. NAIL VERTICAL HOG ON CEILING JOIST TO 2-2x4 BRACE WITH 2-16d NAILS.
9. MAXIMUM SPANNING OF RAFTER BRACES FOR 2x6 HOG IS 4'-0" O/C. RAFTERS CAN BE SPLICED OVER HOGS WITH 2-2x4 BRACES.
10. DETAILS:

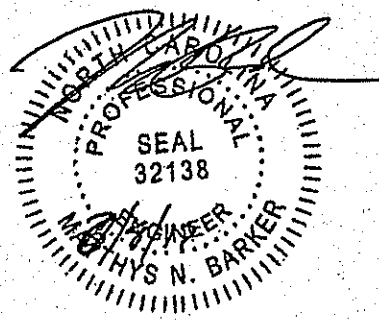
2x6 HOG 2x6 HOG 2-2x4'S BRACE T- BRACE
11. BRACE TOP OF ALL ROOF RAFTER KNEE WALLS TO CEILING JOISTS WITH DIAG. 2x4 AT 4'-0" O/C WITH 7 16d NAILS EACH END OF DIAGONAL BRACE .
12. ROOF TRUSSES TO BE BUILT AND DESIGNED PER MANUFACTURER'S RECOMMENDATIONS. SUBMIT TRUSS LAYOUT TO ENGINEER FOR REVIEW PRIOR TO FABRICATION.

ROOF NOTES

- RAFTERS ARE 2x8 @ 16" O.C. (U.N.O.)
 - HIPs AND RIDGES ARE 2x10 (U.N.O.)
 - VALLEYS ARE 2x10 (U.N.O.)
 - SHADED AREAS ARE OVERBUILT
 - INSTALL A MINIMUM OF (2) STUDS UNDER ALL ROOF BRACES THAT BEAR ON WALLS
- NOTE:
BUILDER TO CONFIRM THE SQ. IN./FT. VENTED AREA w/ THEIR MANUF. OF VENTING PRODUCTS USED FOR THIS CONSTRUCTION SO THEY WILL COMPLY w/ THE CALCULATED SQ. IN./FT. OF VENTED AREA REQUIRED.
PROVIDE 16" OVERHANG THROUGHOUT U.N.O.

ROOF VENTILATION CALCULATIONS

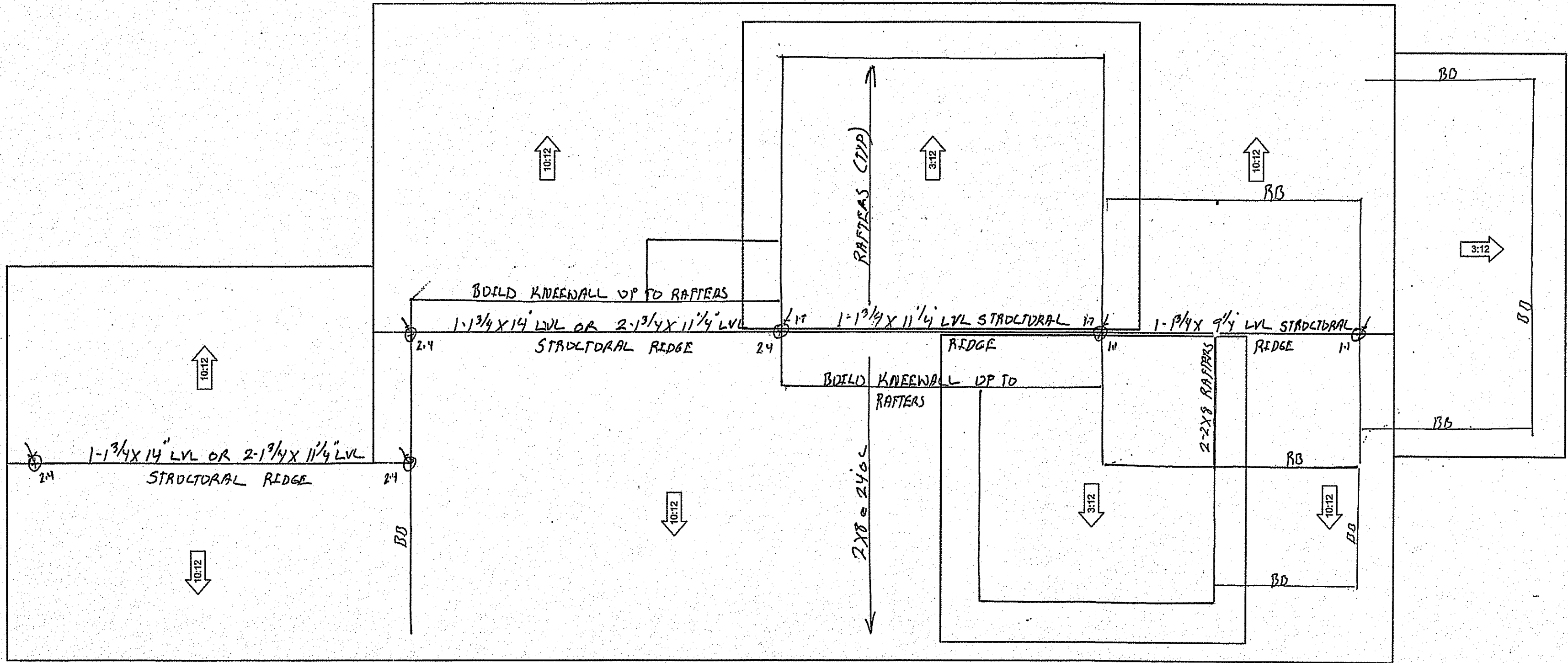
2" CONT. ALUM. SOFFIT VENT = 8 SQ. IN./FT. OF VENT AREA
RIDGE VENT = 12.5 SQ. IN./FT. OF VENT AREA
MAIN BUILDING (AS PERSECTION R808.2 OF 2009 NCRG) :
ATTIC VENTILATED AREA: 2,032 S.F. x 144 SQ. IN. x 1/300 = 975 SQ. IN. VENT REQUIRED
80% OF 975 SQ. IN. = 665 SQ. IN. OF SOFFIT VENTILATION (73.125)
40% OF 624 SQ. IN. = 390 SQ. IN. OF RIDGE VENTILATION (31.2)



REVISED 1/21/19

Sustainable Engineering &
Efficient Designs, P.L.L.C.
PO Box 591071
Charlotte, NC 28227-7018
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✗ ALL RAFTERS ARE 2x8 @ 24" o.c. and
BB- BEAM DELETED
RB- RAFTERS BEAR



402 ROOF PLAN
A4.1

1/4" = 1'-0"

MSJDRAFTING
1871 POULDER ROAD
LINCOLTON, NORTH CAROLINA
TELEPHONE (704) 782-8844
FAX (704) 782-1720

R. ALLEN
CONSTRUCTION
CHARLOTTE, NC

A NEW RESIDENCE AT:
WILMORE #4
CHARLOTTE, NC

PROJECT NO. WILMORE04		
DATE: NOVEMBER 21, 216		
DRAWN BY: MSB		
CHECKED BY: MSB		
REVISIONS:		
NO.	DATE	BY
COMPUTER REFERENCE NUMBER WILMORE0401 .125		
SHEET NO. 54.1 OF 4		

UPDATED ITEMS (JUNE MEETING)

- 1. FLOATING FOUNDATION** – provided is documentation from our engineer Matthys Barker (President, Sustainable Engineering and Efficient Designs, PLLC).



SUSTAINABLE ENGINEERING & EFFICIENT DESIGNS, PLLC

PO Box 691071
Charlotte, NC 28227-7018
Phone: 704.239.0478 Fax: 704.973.9276

June 12, 2017

Allen Design Associates, Inc.
Attn: Robert Allen
5601 Camilla Dr.
Charlotte, NC 28226

Re: Wilmore #4

Dear Robert:

You contacted SEED, PLLC in reference to the design provided to protect the tree roots on the front side of the house. The new porch footings will be formed and poured on grade without digging. Then the footings will be backfilled to meet the code required footing depth of 12" below grade after the foundations are built up off the footings. This design will effectively limit the potential for damaging the trees root system and will effectively support the imposed porch loads to meet the structural requirements of The 2012 North Carolina Residential Building Code.

This report represents our opinions based on calculations and our experience. The scope of our evaluation was limited to the content of this report. Therefore, this report should not be construed as an implication that there are no deficiencies or defects at other locations in this structure.

If I can be of any further assistance to you with regards to this report, please do not hesitate to contact me at 704.239.0478.

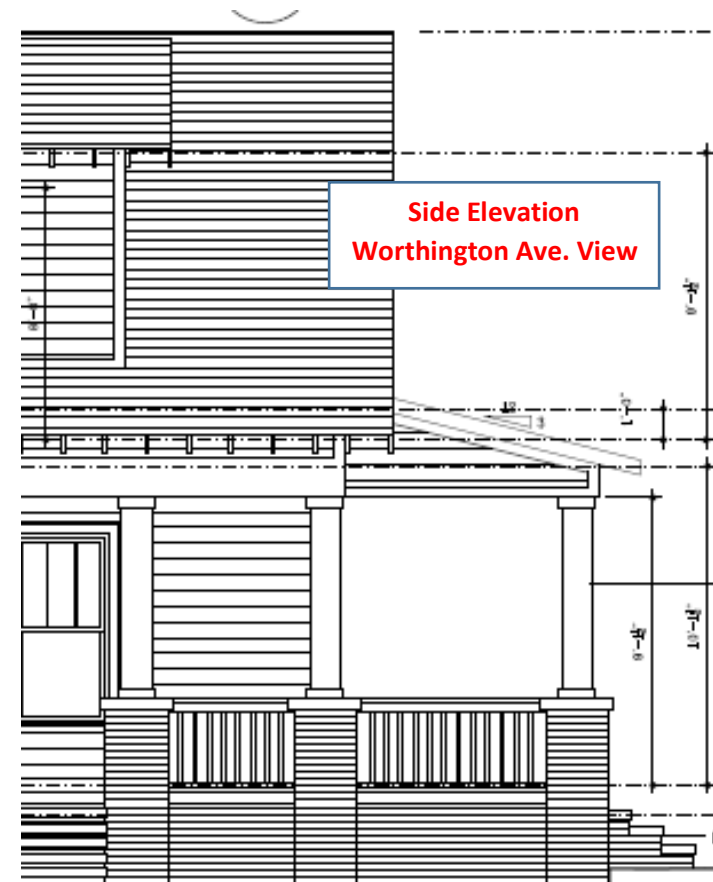
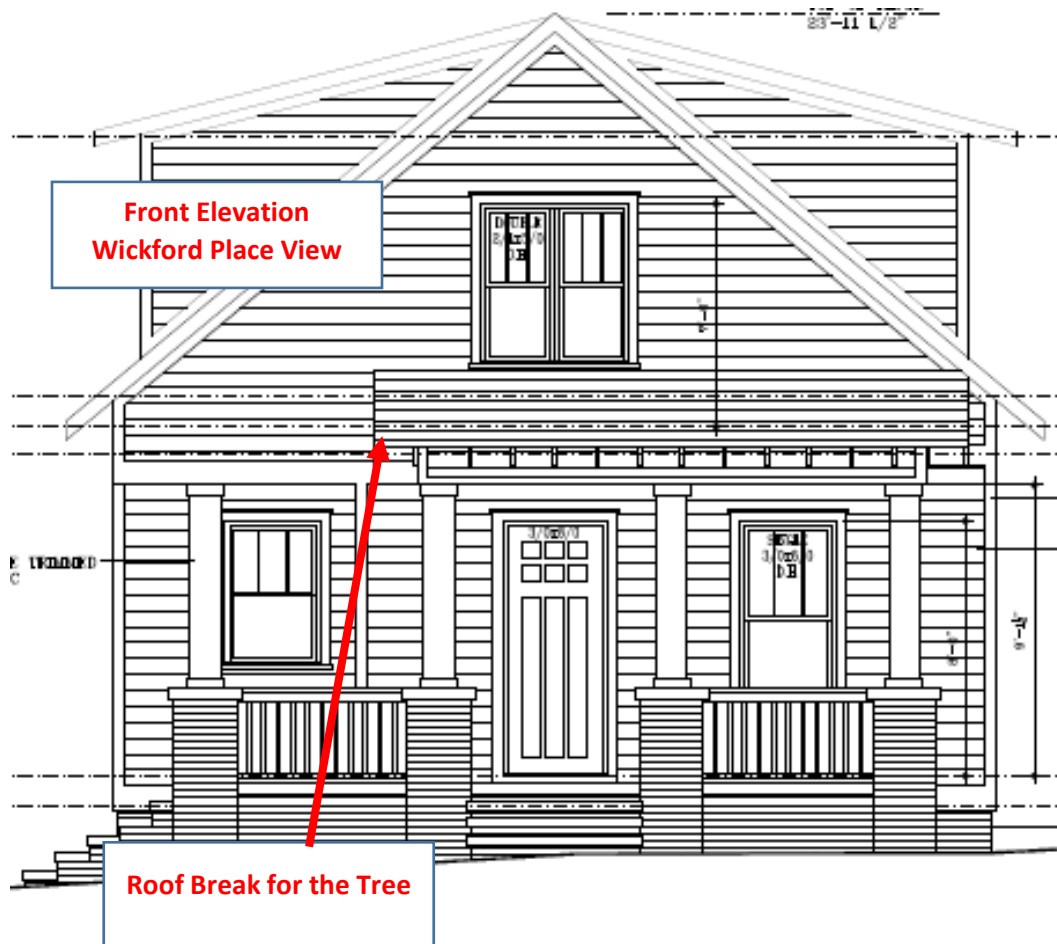
Sincerely,

Matthys N. Barker, PE
NC License No. 32138

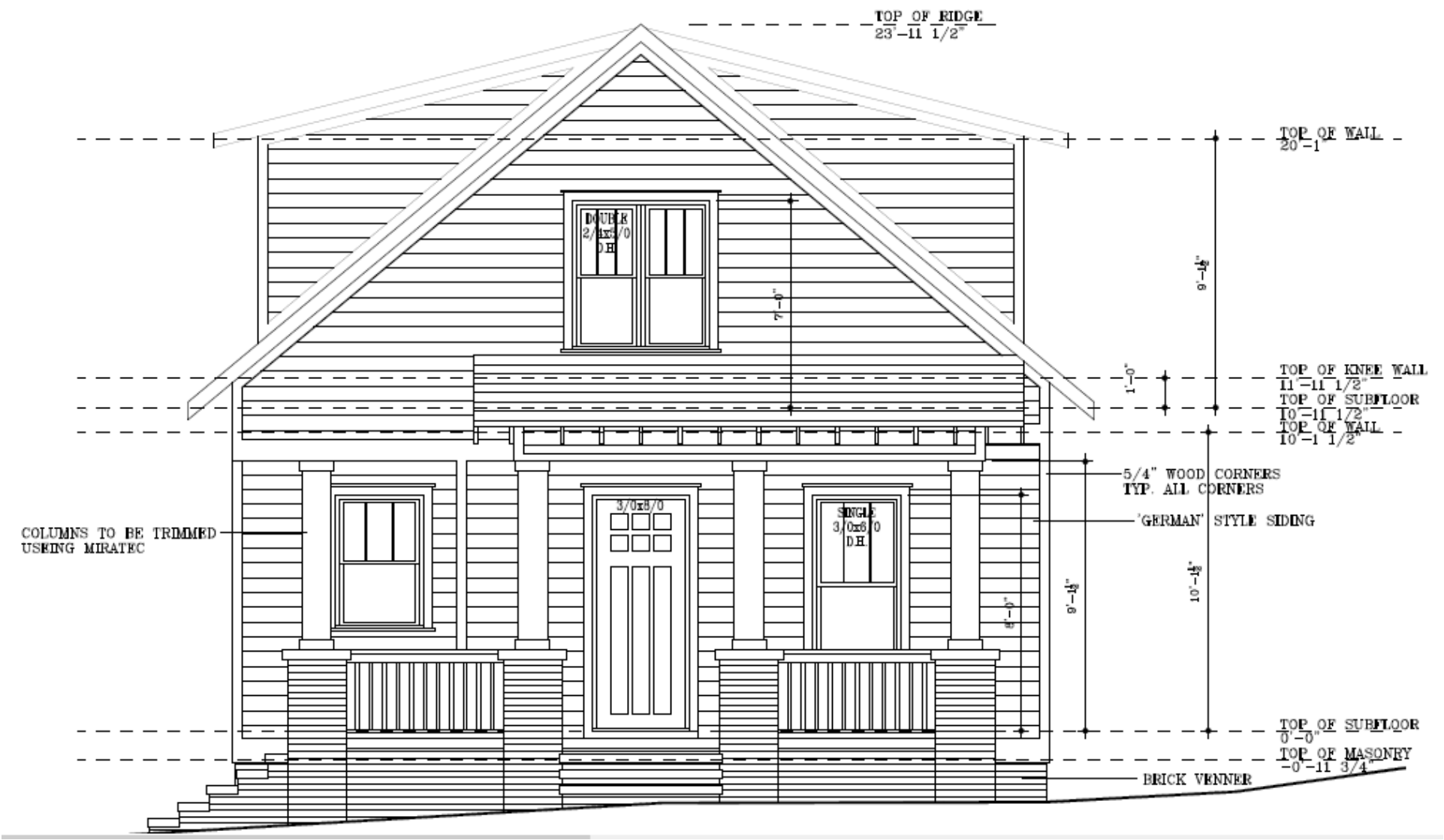


2. TREE PRESERVATION– the corner Willow Oak Tree will have a protection fence the duration of construction and the fence will be located one (1') foot from the positioning of the foundation / house.

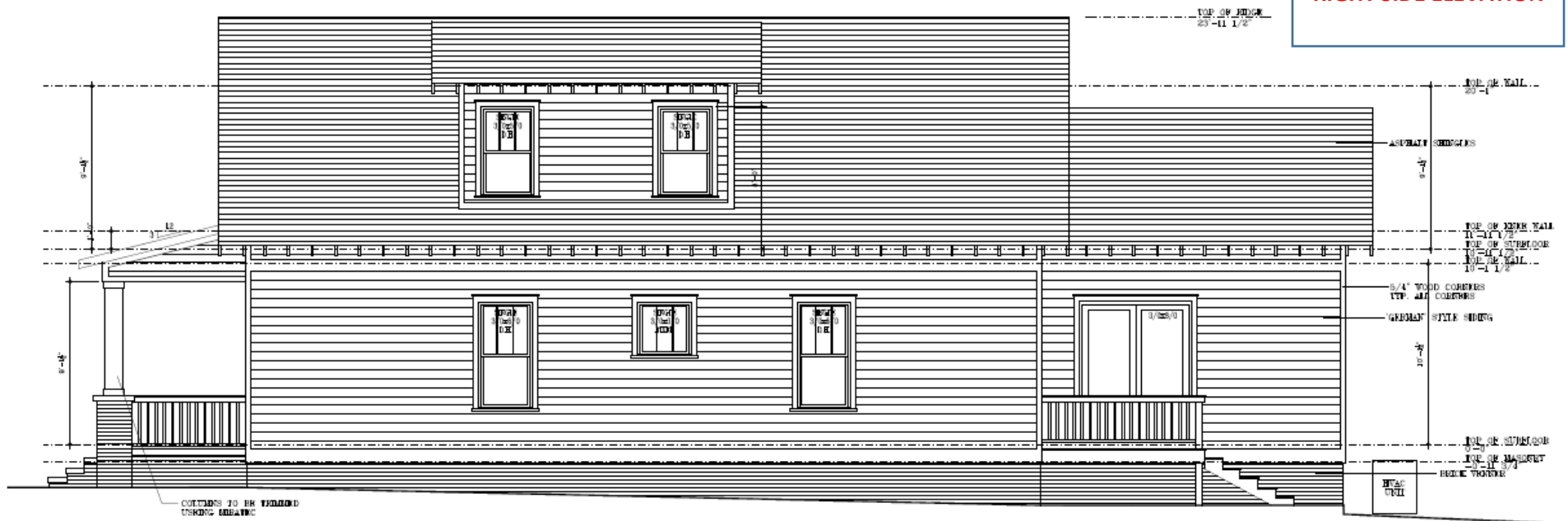
3. UPDATED FRONT ELEVATION – the roofline of the front porch has been updated.



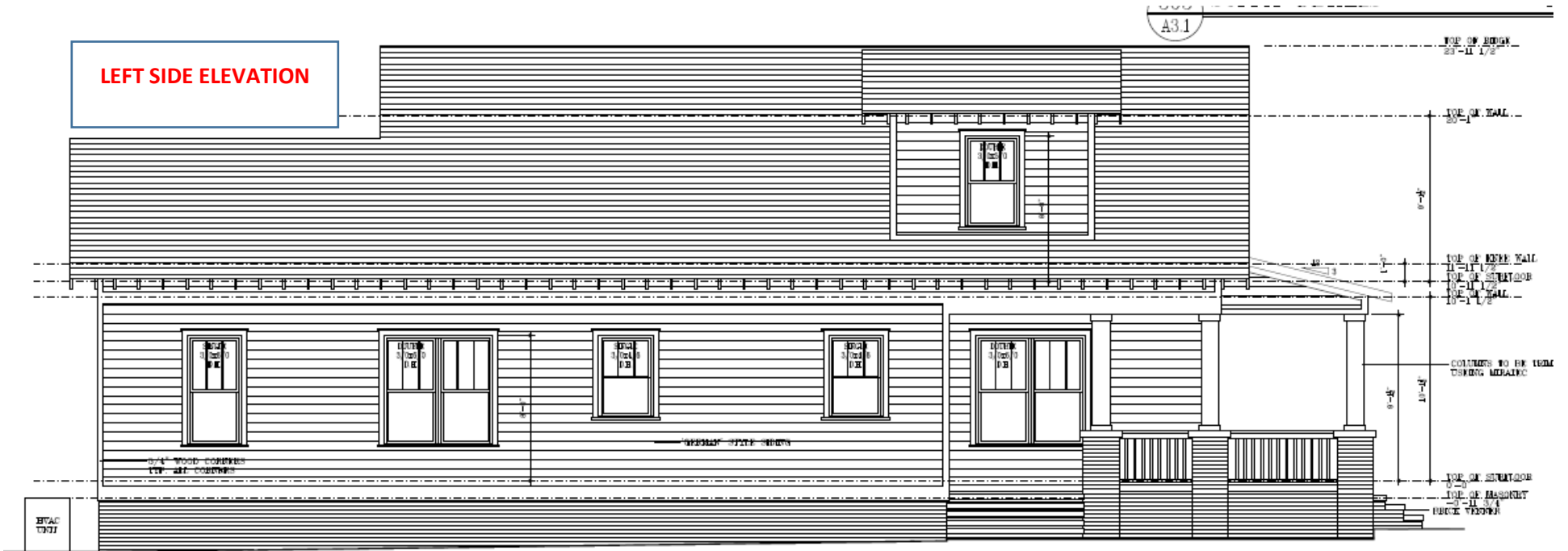
FRONT ELEVATION



RIGHT SIDE ELEVATION



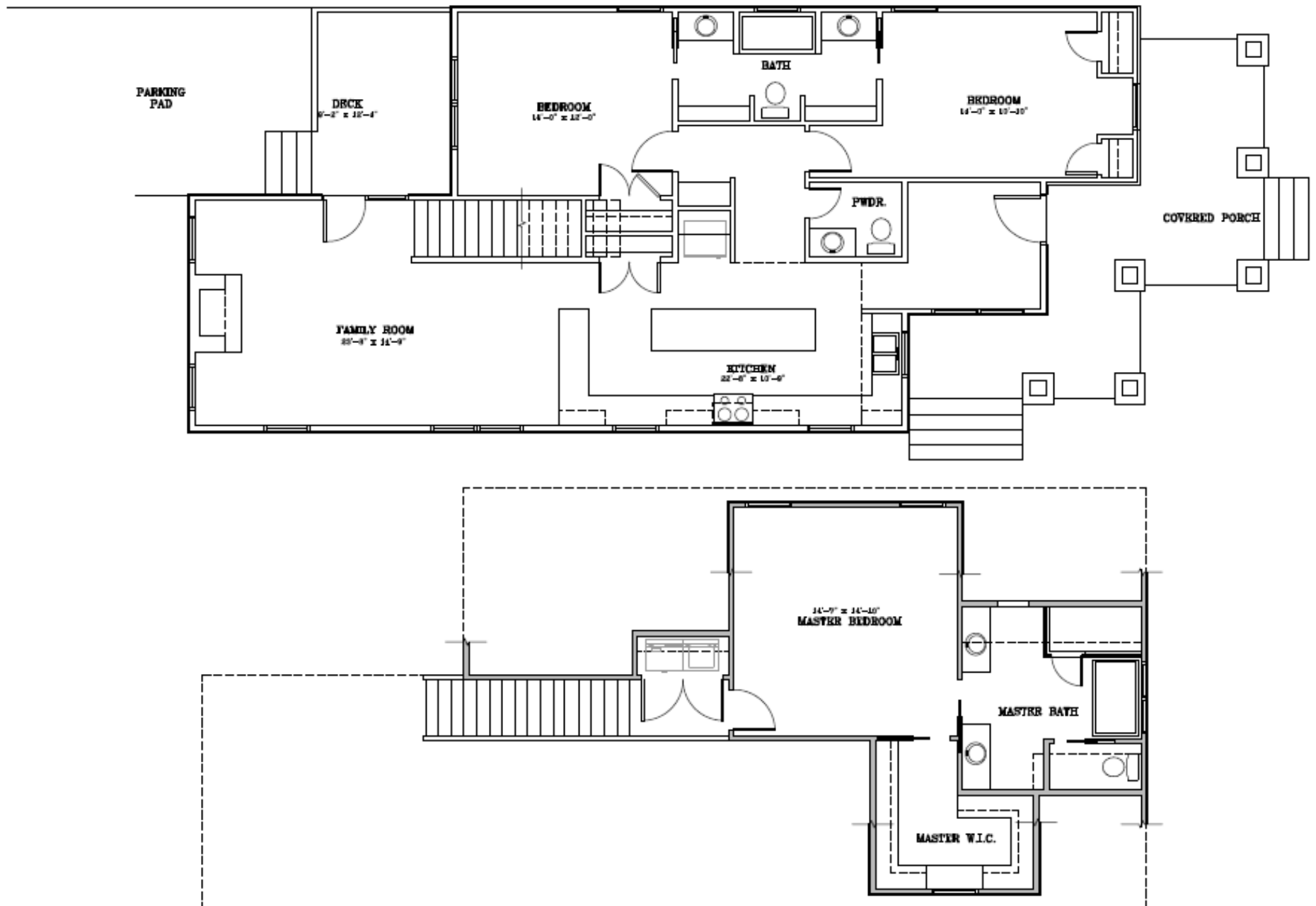
LEFT SIDE ELEVATION



REAR ELEVATION



LOT 4 FLOORPLAN



PRIOR MEETING (MAY) - OVERVIEW OF UPDATED ITEMS on LOT 4:

1. **TREE SAVE** – attached is a letter from Barry Gemberling (Arborguard) in regard to his recommendations on how to keep the LOT 4 (Willow Oak) tree safe prior and during construction.
2. **MIRATEK** – to be installed on all columns, corners and fascia with corner boards being 5.5 inches
3. **OPEN TAILS / SOFFITS** – roof to extend 24 inches at right angle to siding, with $\frac{3}{4}$ v-groove bead board and 2x8" rafters with bed mold installed base
4. **WINDOWS** – 4" wide non-tapered trim with $\frac{7}{8}$ putty glaze, removed brick casing

#4 – Window Trim – non-tapered 4"

#3 – Open Tail – 24" with bead board & 2x8" rafters



#2 – Miratec – Columns, Fascia, and Corners

#1 – Tree Save Letter for the Sycamore Tree

STREETSCAPE

UPDATED – LOT 2 added columns from ceiling to floor on the front porch

LOT 4

LOT 3

LOT 2

LOT 1



PREVIOUS



MATERIAL DETAIL – EXAMPLE OF OPEN TAIL, COLUMNS, & BAND



HOUSE VARIATION STREETSCAPE

LOT 4

LOT 3

LOT 2

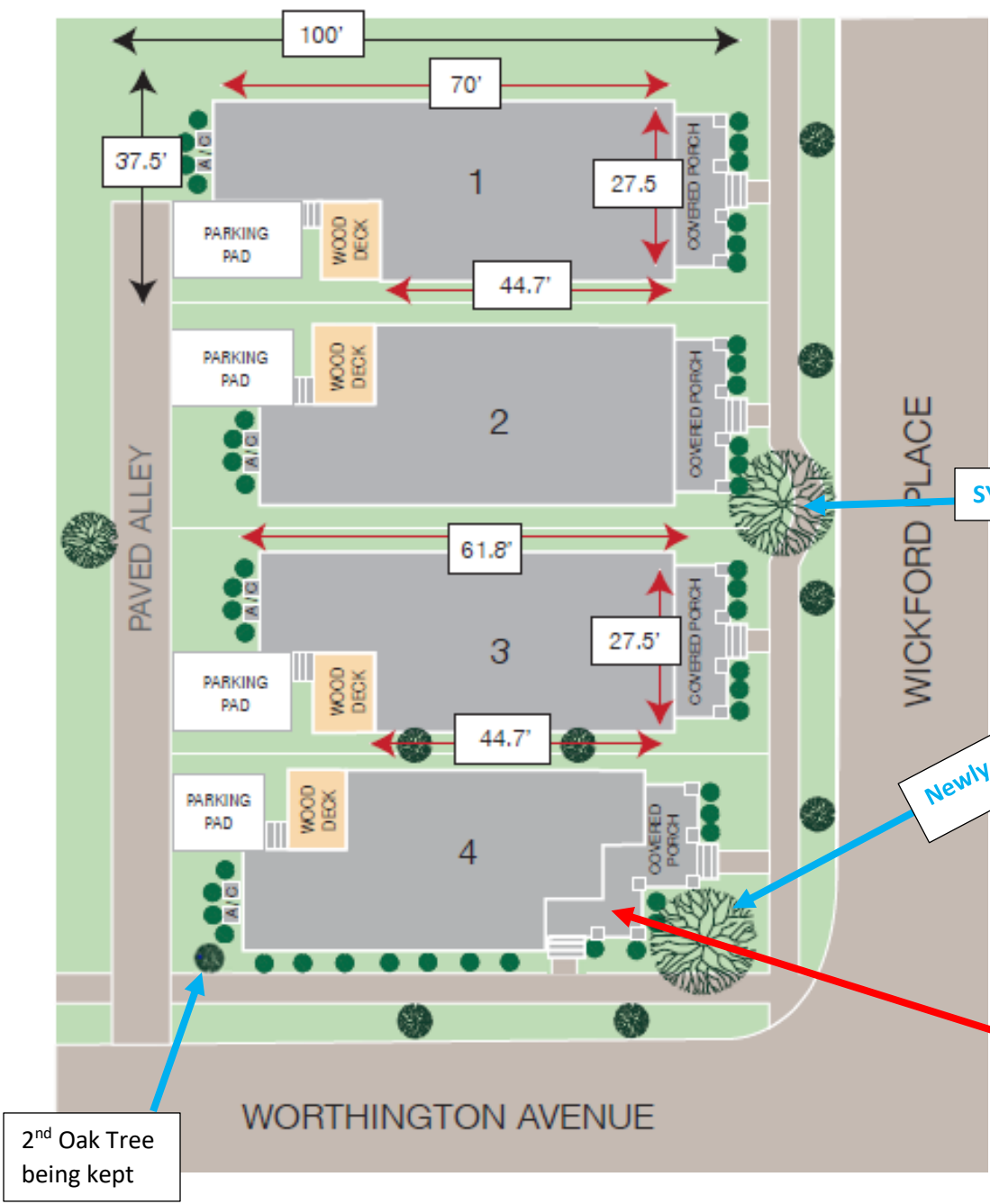
LOT 1



- LOT 1 - stays the same but we have taken the roofline down 1 ft.
- LOT 2 - stays the same but we have taken the roofline down 1 ft.
- LOT 3 – the front dormer has a gable above it, and the roofline came down 1 ft.
- LOT 4 – the front porch wraps-around along Worthington and is positioned for us to save the Oak Tree



SITE PLAN – (UPDATED)



SYCAMORE Tree

Newly Saved OAK Tree

LOT 4 – created a wrap-around porch that runs along Worthington Ave for more curb appeal at the Worthington & Wickford corner. Added stairs on the Worthington Ave. side as well. Pushed the house slightly back to be able to keep the Oak Tree.

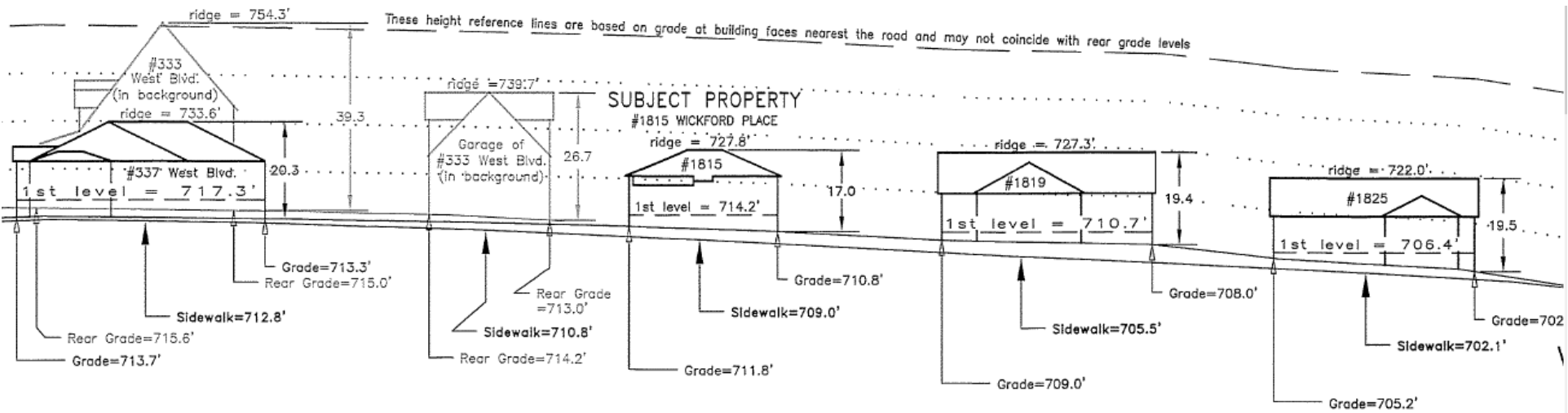
LOT 4 - HEIGHT / MASSING

- We have reduced the roofline by 1 foot to 23' 11.5", by making the 2nd Floor 9' ceiling height.

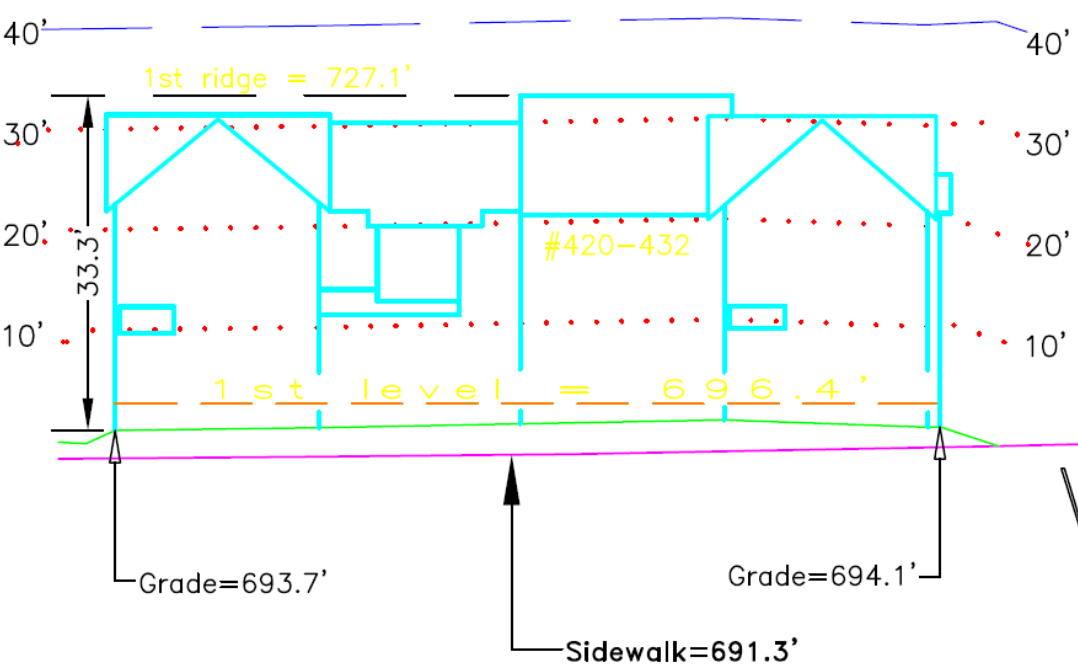


STREET SURVEYS

Wickford Place (across the Street – from West Blvd. to Worthington)



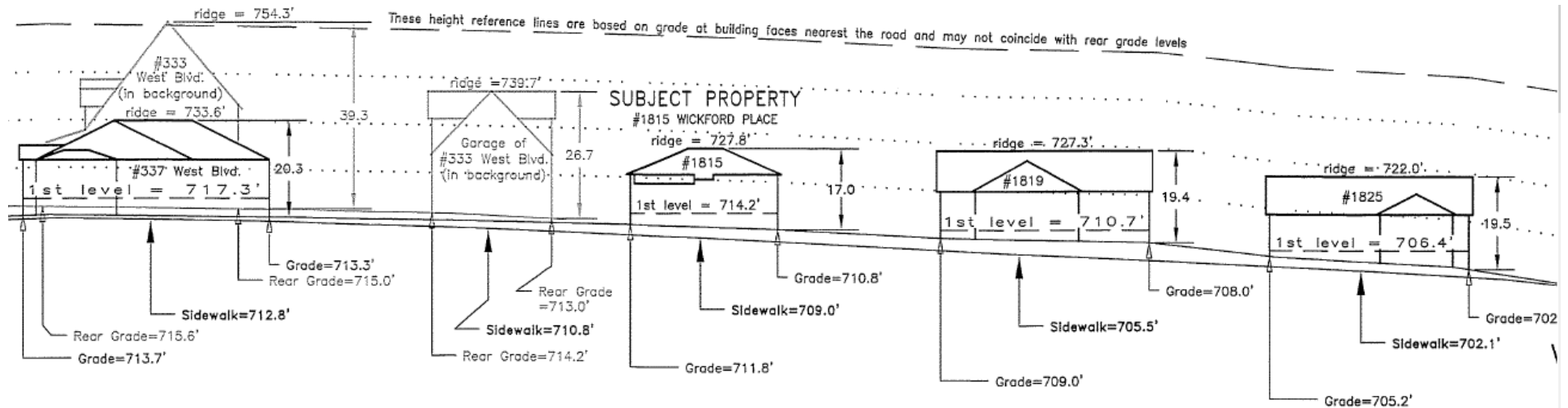
Worthington Ave (Wickford Place)



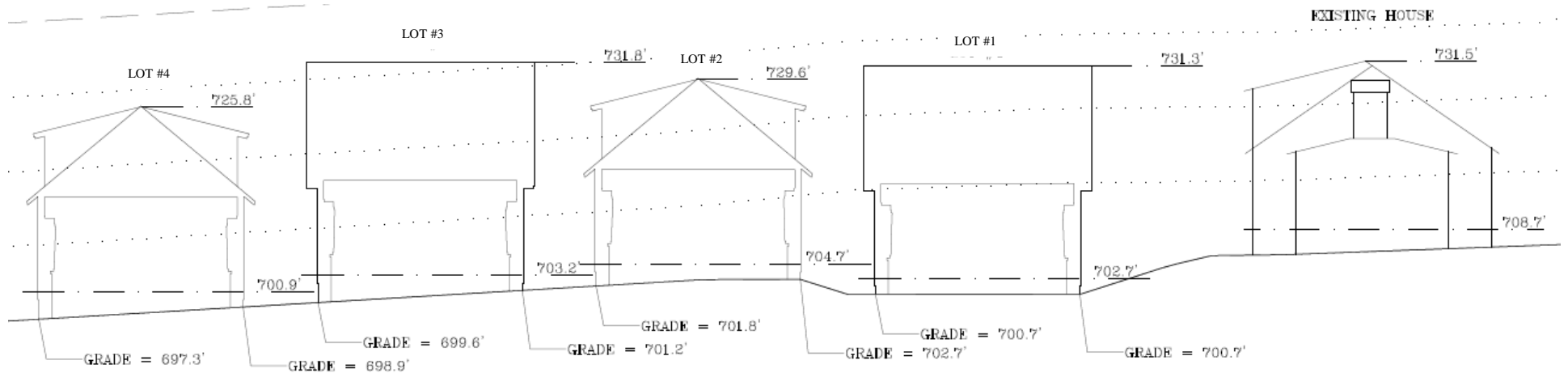
1816 Wickford Place		
LOT #	Roofline	Elevation to Grade
1	27' 7.25"	730.3'
2	23' 11.5"	728.6'
3	27' 7.25"	730.8'
4	23' 11.5"	724.8'

HEIGHT / STREETScape / SCALE

Wickford Place (across the Street – from West Blvd. to Worthington)



Wickford Place (our side including the neighbor's house to the right of our property)



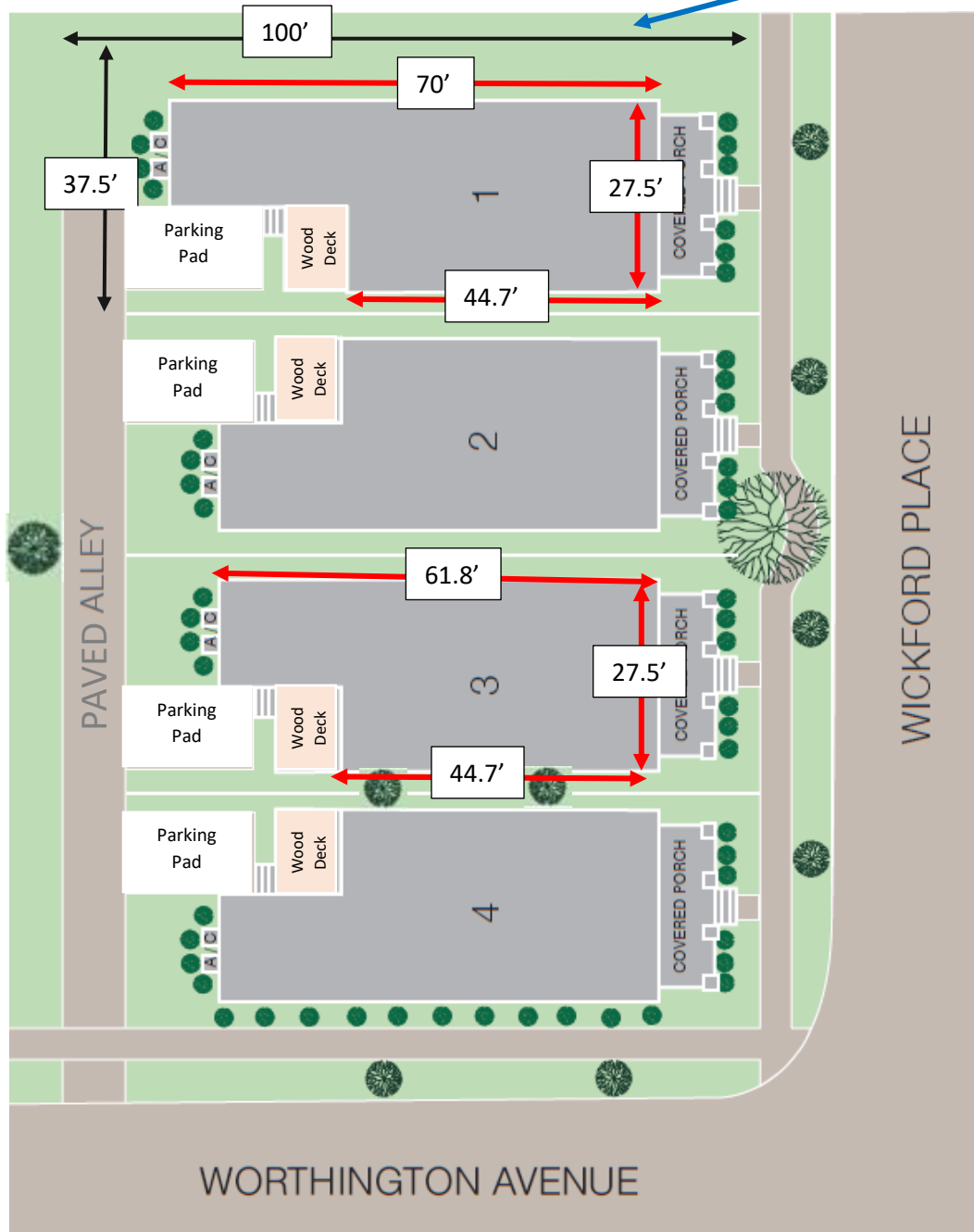
- Our Hip Roof Houses are within 3 inches of our neighbor's roofline and within 4 feet of the roofline across the street.
- Our Gable Style Houses are 2 feet lower than our neighbor's roofline and between 2-3 feet of across the street.

EXISTING CONDITIONS – LOT 2 & 4



FOOTPRINT / LOT DIMENSIONS / RATIO

There is an additional 10' green space (Unopened Alley) that runs between our property and the neighbor to our



LOT 1 Footprint

- Depth of 70' & 44.7' heated square feet
- Width of 27.5' heated square feet
- Total 1,615 heated sq. ft. Footprint
- 184' sq. ft. covered porch

LOT 2 – 4 Footprint

- Depth of 61.8' & 44.7' heated square feet
- Width of 27.5' heated square feet
- Total 1,487 heated sq. ft. Footprint
- 184' sq. ft. covered porch

LOT Size 1 – 4

- Depth 100' / 37.5'
- Total Lot Size 3,750 sq. ft.

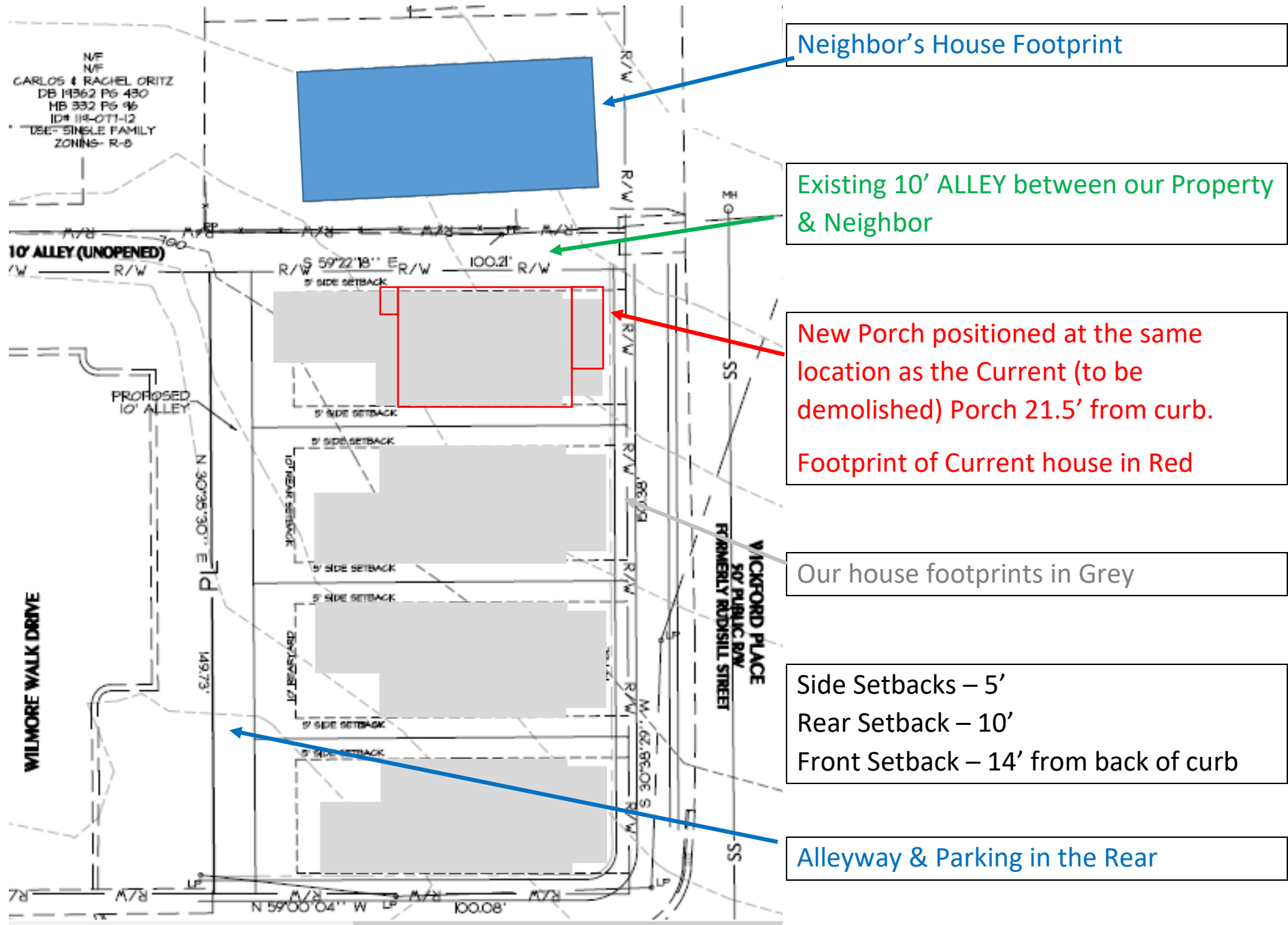
Footprint % to Lot Size / % of Lot that's Permeable

Lot 1 43% heat sq. ft. / 48% is Permeable*

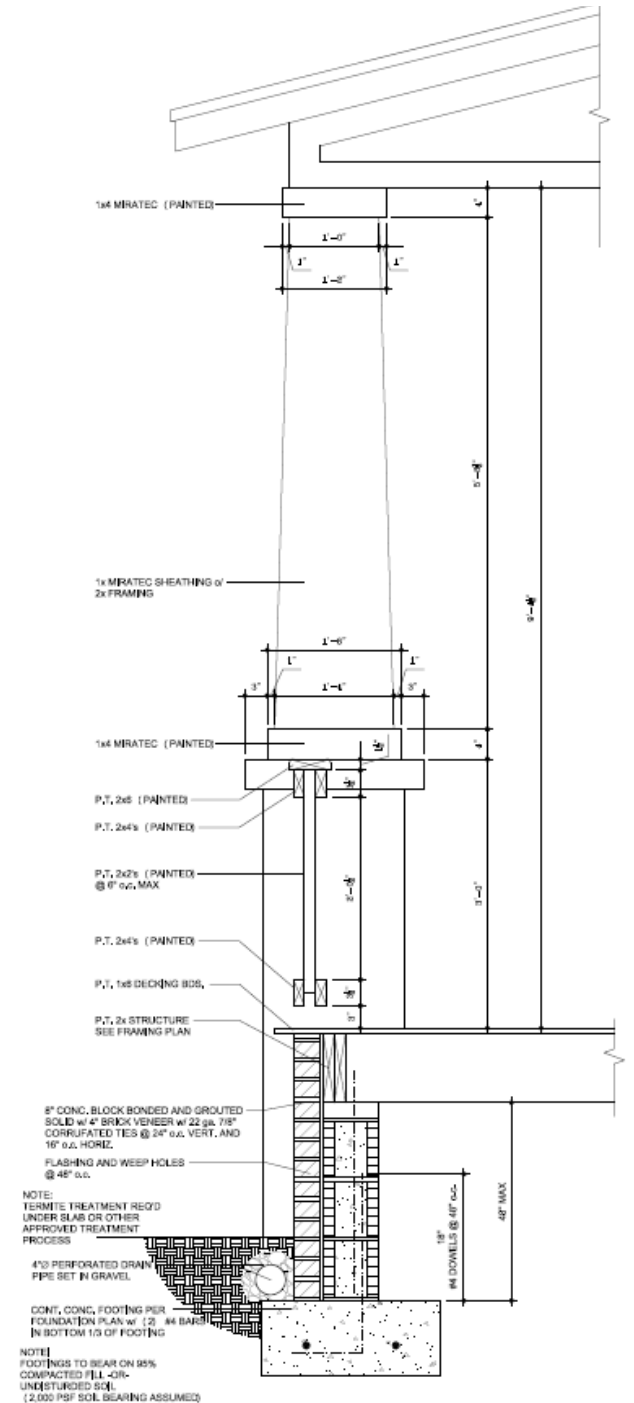
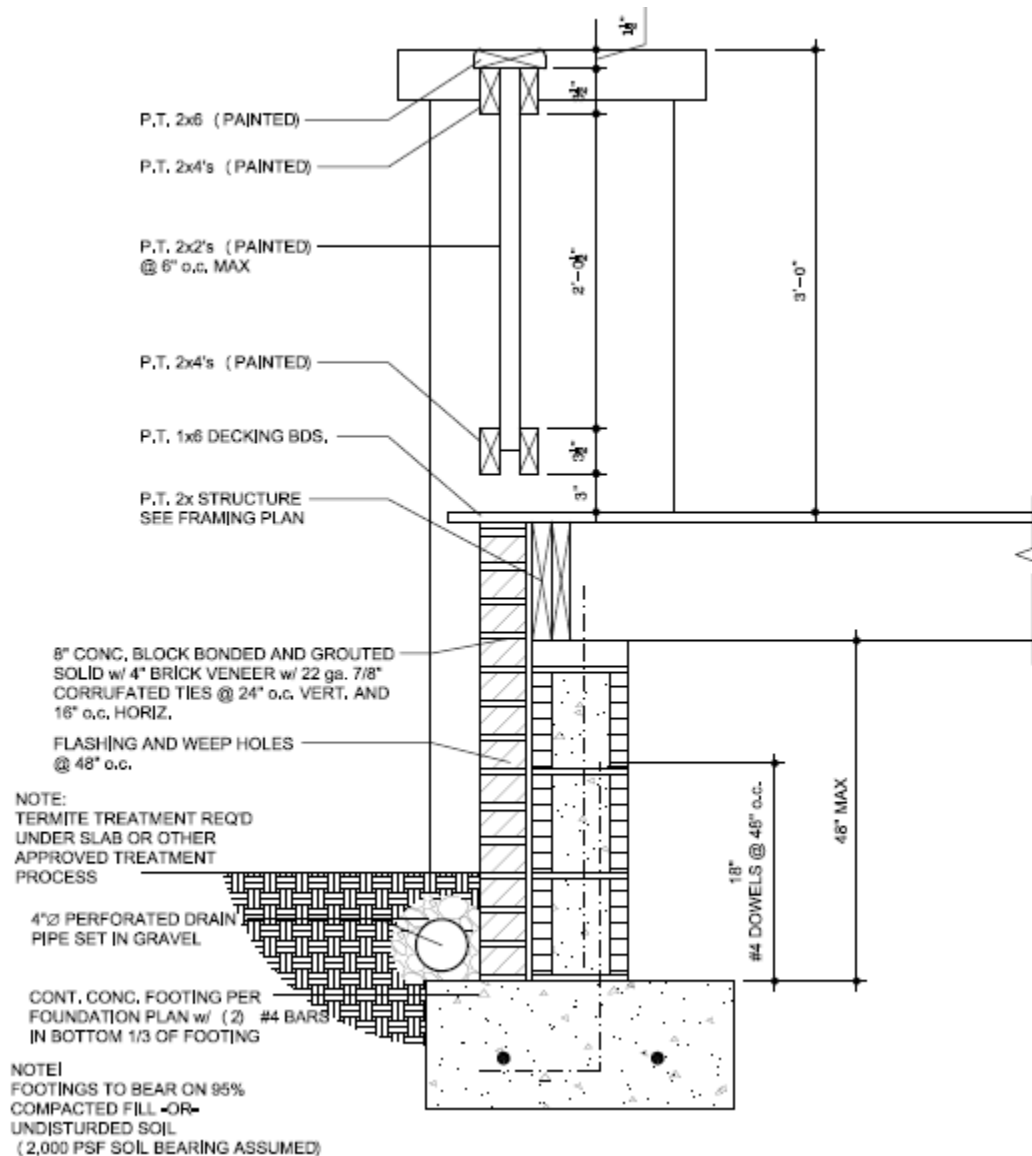
Lot 2-4 39% heat sq. ft. / 45% is Permeable*

*Paved Alley is included as Non-Permeable

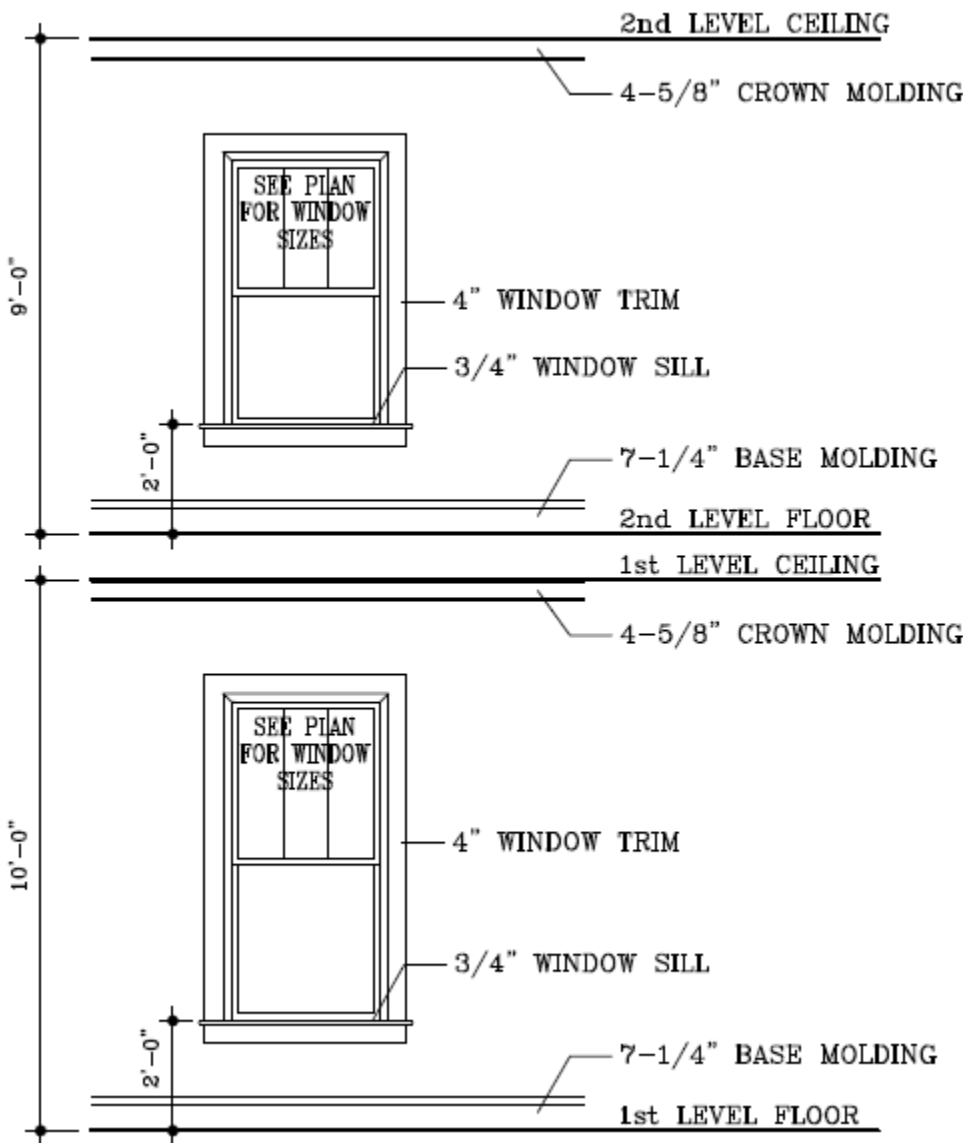
SITE PLAN ZOOM-IN



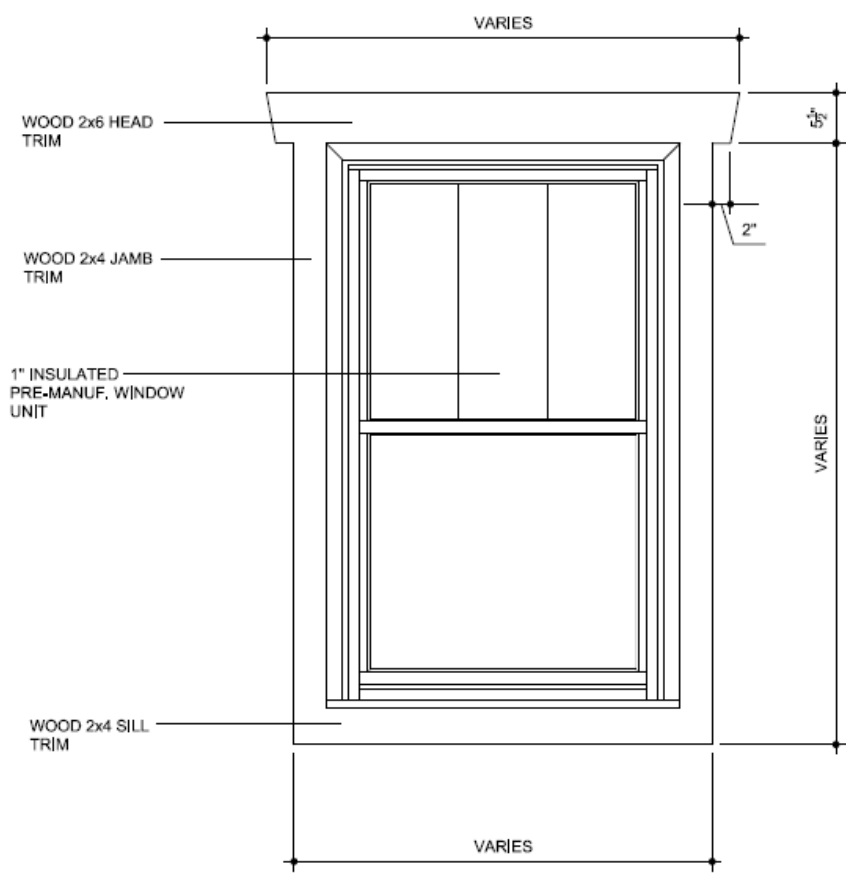
PORCH RAILING & COLUMN DETAIL



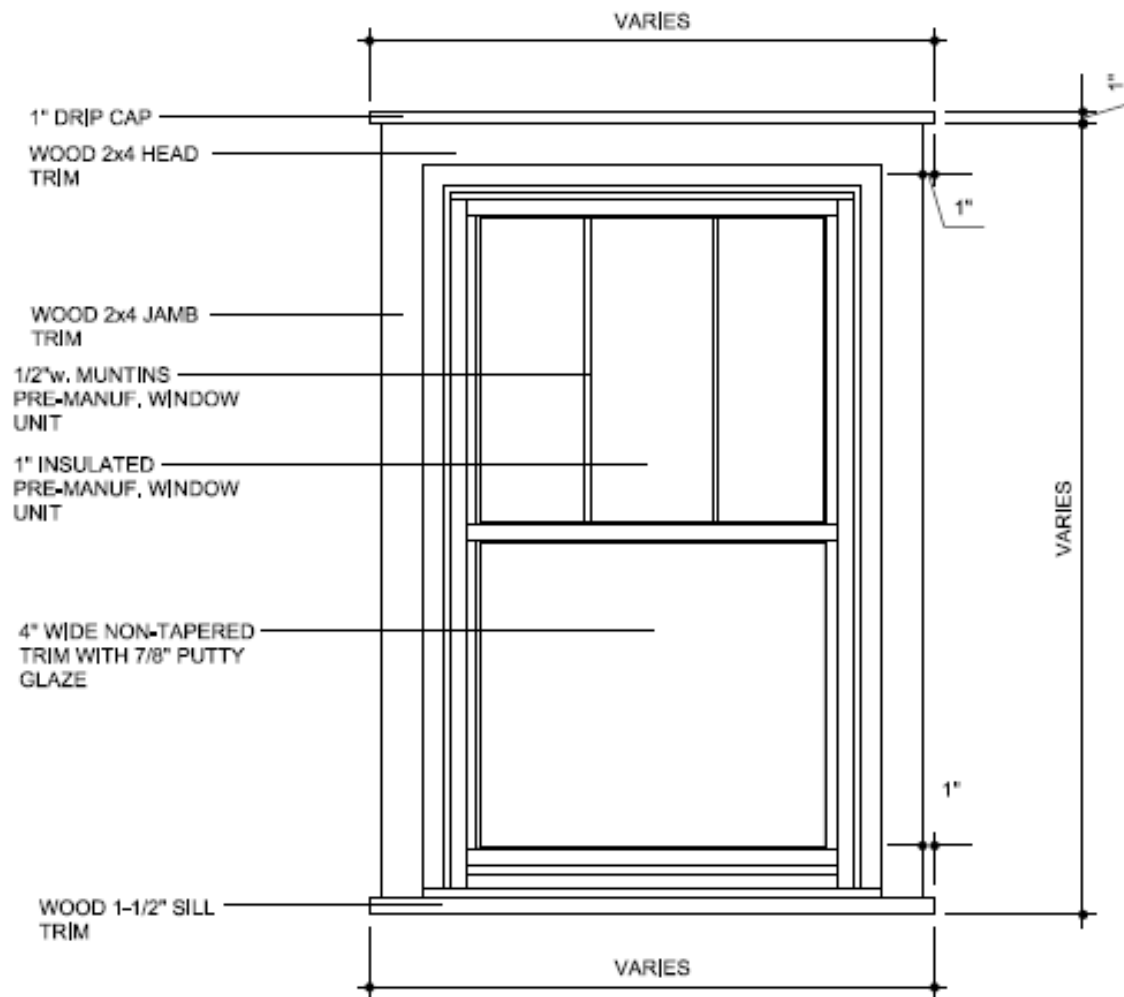
INTERIOR WINDOW HEIGHTS, TRIM, & CROWN



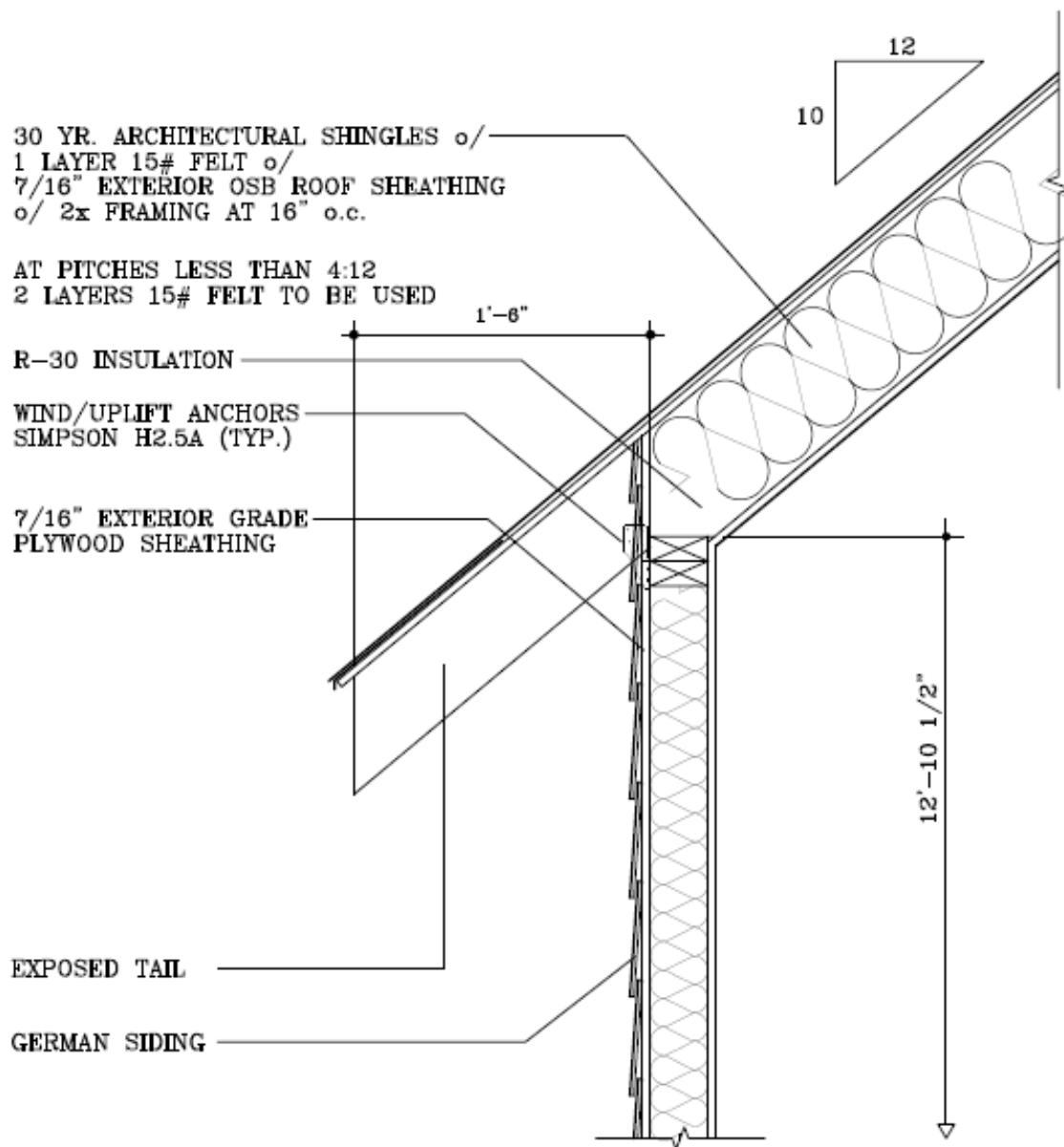
EXTERIOR WINDOW DETAIL



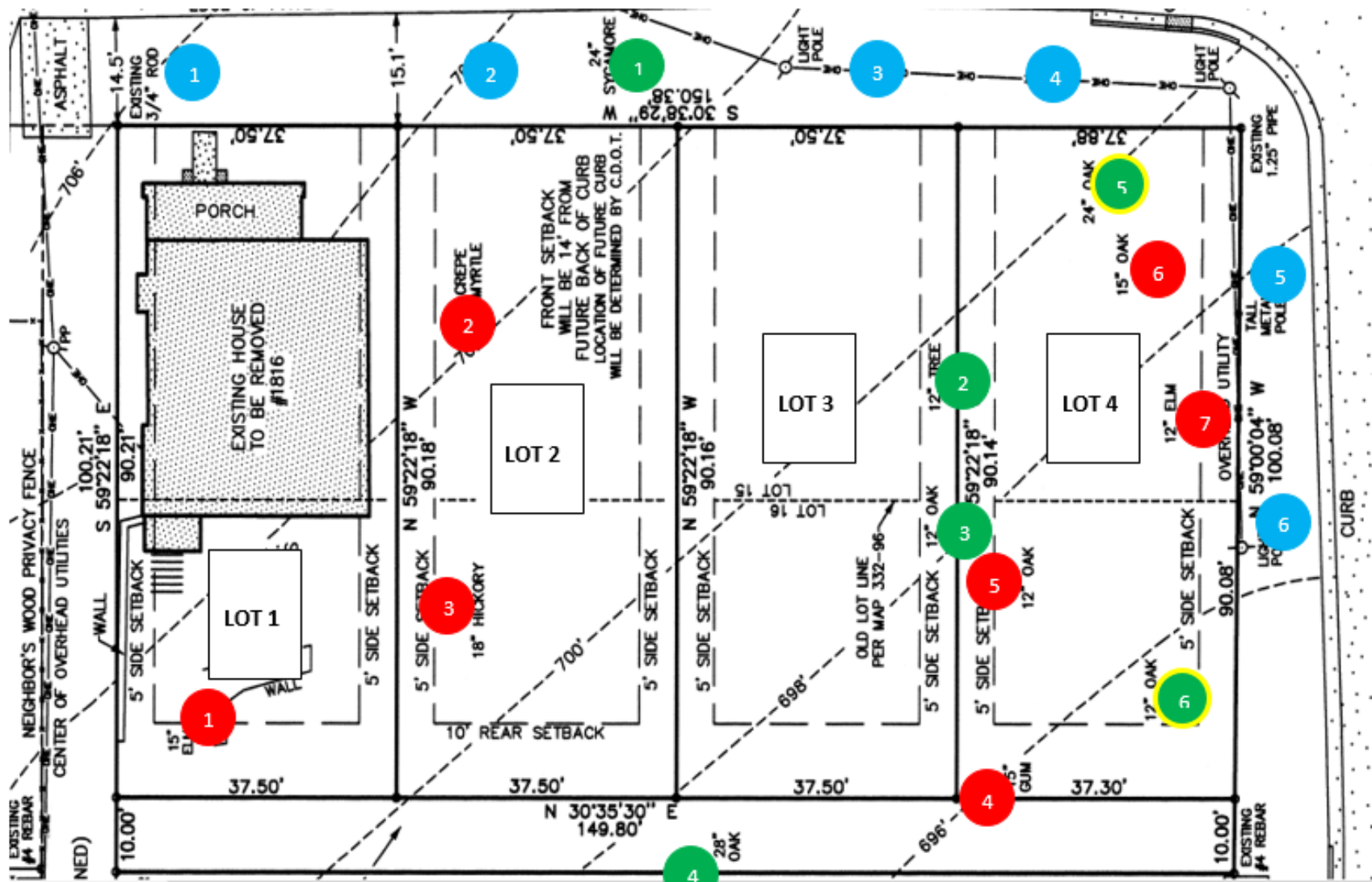
4. WINDOW DETAIL – the window casing and trim design was added to all of the elevations.

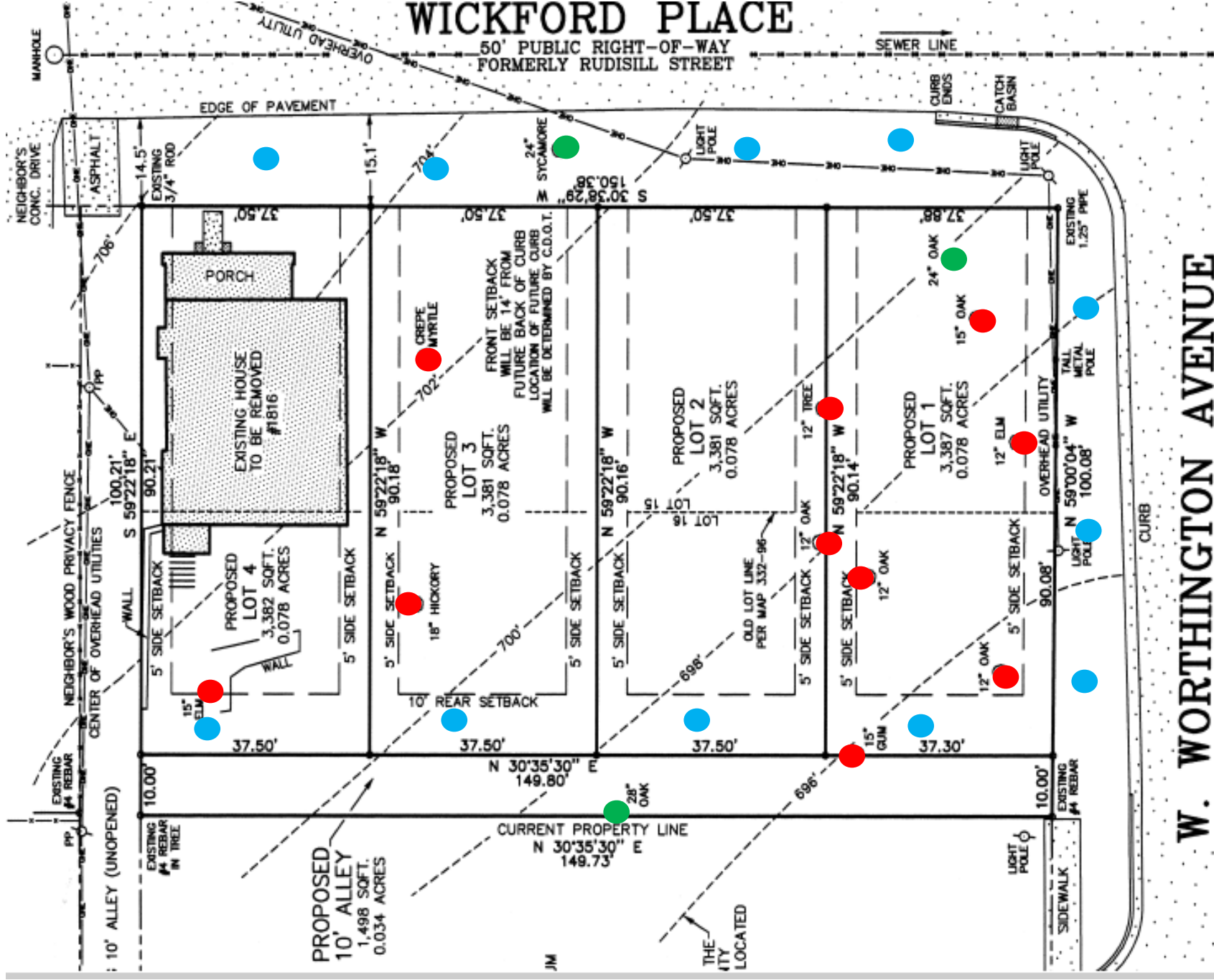


SOFFIT DETAIL – UPDATED OPEN TAIL



TREE SAVE - (UPDATED)





KEEP <ul style="list-style-type: none"> - 24" OAK - 28" OAK - 24" SYCAMORE 	ADD <ul style="list-style-type: none"> - (11) Medium Size Oak Trees 	REMOVED <ul style="list-style-type: none"> - (5) Oak - (1) Crepe Myrtle - (1) Gum - (1) Hickory - (1) Elm
--	---	---

KEEP – 24" OAK in foreground & 24" SYCAMORE in background





The Tree Specialists that find Solutions Naturally®

FROM: Arboreguard Tree Specialists
PO Box 26767
Charlotte, NC 28221

FOR: RCMD, LLC
Craig Calcasola
11050 Dundarrach Lane
Charlotte, NC 28277

SUBJECT: **1816 Wickford Place, Charlotte, NC 28203 – SYCAMORE**

Dear Mr. Calcasola:

Thank you for this opportunity.

As per your request; we visited the property at 1816 Wickford Place, Charlotte, NC 28203 to examine 2 trees you specified and, based on this; submit the following observations, discussion and recommendations are in reference to the Sycamore (located on Wickford).

Large Sycamore closest to the next residence on Wickford Place; currently in fair to good condition, if the intent is to preserve this tree, the following procedures must be performed –

1. Soil injection therapy treatment with our organic material, same as above, once each in spring, summer and fall - \$250 per treatment, total \$750 for all 3
2. Trunk insecticide and fungicide treatments, same as above, once each in spring, summer and fall - \$75 per treatment, total \$225 for all 3
3. Trunk injection with systemic, long residual fungicide to prevent Sycamore Anthracnose in spring - \$275
4. Complete and thorough pruning to provide crown cleaning for dead limbs, plus selective thinning of the extremities to reduce weight - \$475
5. Erect barricade fencing beneath the drip-line, same as above - \$550
6. Distribute a 4-6 inch layer of organic bark mulch beneath the canopy from drip-line to drip-line to protect the root zone areas - \$450
7. Visit once per month during the construction project, same as above - \$75
8. Re-visit to re-examine in Late Fall 2017, same as above – NO CHARGE

Sincerely,

Barry Gemberling
ISA Certified Arborist, ASCA Consulting Arborist
Senior Corporate Arborist – The Carolinas
Vice President & Branch Manager
Arboreguard Tree Specialists
704-578-5662



The Tree Specialists that find Solutions Naturally®

FROM: Arboguard Tree Specialists
PO Box 26767
Charlotte, NC 28221

FOR: RCMD, LLC
Craig Calcasola
11050 Dundarrach Lane
Charlotte, NC 28277

SUBJECT: **1816 Wickford Place, Charlotte, NC 28203 – WILLOW OAK – Lot 4**

Dear Mr. Calcasola:

Thank you for this opportunity.

As per your request; we visited the property at 1816 Wickford Place, Charlotte, NC 28203 to examine 2 trees you specified and, based on this; submit the following observations, discussion and recommendations are in reference to the **Willow Oak** (located at the corner of Wickford & Worthington – LOT 4).

Large, double-stemmed Willow Oak closest to the intersection of West Worthington Avenue and Wickford Place; currently in fair to good condition, but with a defective crown structure associated with the weak “V” crotch of the double stem union.

With a planned Floating Foundation for near or over the root system of the Willow Oak on the new home side, if no building activities are planned for the root zone areas beneath the canopy of the Willow Oak on the street sides or sides away from the new home, and if all of the outlined preservation procedures recommended for the Willow Oak are implemented; it should be OK to build within 11 feet of the trunk on the new home side as planned and we should be able to preserve this tree. Floating Foundation for the covered porch to be between the trunk of the Willow Oak to at least 11 feet with the closest footer being 11 feet and going further from there.

1. Perform soil injection therapy treatment now in Spring 2017 for the root zone areas beneath the canopy with our organic matter to strengthen the root system and improve vigor to prepare for the stresses of the construction project - \$275
2. Treat the trunk areas with insecticide and fungicide now in Spring 2017 for suppression of and protection against secondary, predatory, invasive pests and diseases due to potentially weakened and vulnerable condition - \$75
3. Perform complete and thorough pruning to provide crown cleaning for dead limbs, plus light thinning of the extremities to reduce density and weight; but minimize live wood removal to minimize stress - \$575 + prior arrangements must be made to drop the utility line in front
4. Install 1 flexible, steel cable in the upper crown between the split stems to support the defective, weak stem union beneath to reduce the risk of splitting or breakage from future wind, snow or ice storm events - \$325

5. Install a new, all copper lightning protection system due to height, exposure, location and importance - \$1,100
6. Erect a barricade fence beneath the drip-line and allow no traffic or storage of materials or equipment on the root zone areas beneath the canopy from drip-line to drip-line - \$550
7. Distribute a 1 foot layer of expanded slate aggregate or Stalite over the root zone areas beneath the canopy from drip-line to drip-line to prevent root system damage from soil compaction - \$1,950
8. Visit once per month during the construction project to monitor the health and progress of the tree and assure the barricade fence is still erect and there are no activities on the root zone areas - \$75 per visit
9. Repeat the soil injection therapy and trunk insecticide/fungicide treatments once each in summer and fall - \$275 + \$75 + \$275 + \$75 = total \$700
10. Re-visit to re-examine in Late Fall 2017 to monitor the progress of the tree, then prescribe the appropriate course of action for the 2018 season – NO CHARGE for inspection and report with the above Program

Consulting Fee for visit to examine the above trees and prepare the above report with recommendations - \$360 as previously agreed upon; but we will offer to waive if the above Program of recommended procedures is approved.

Please advise us how to proceed.

Sincerely,

Barry Gemberling
ISA Certified Arborist, ASCA Consulting Arborist
Senior Corporate Arborist – The Carolinas
Vice President & Branch Manager
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704-578-5662