

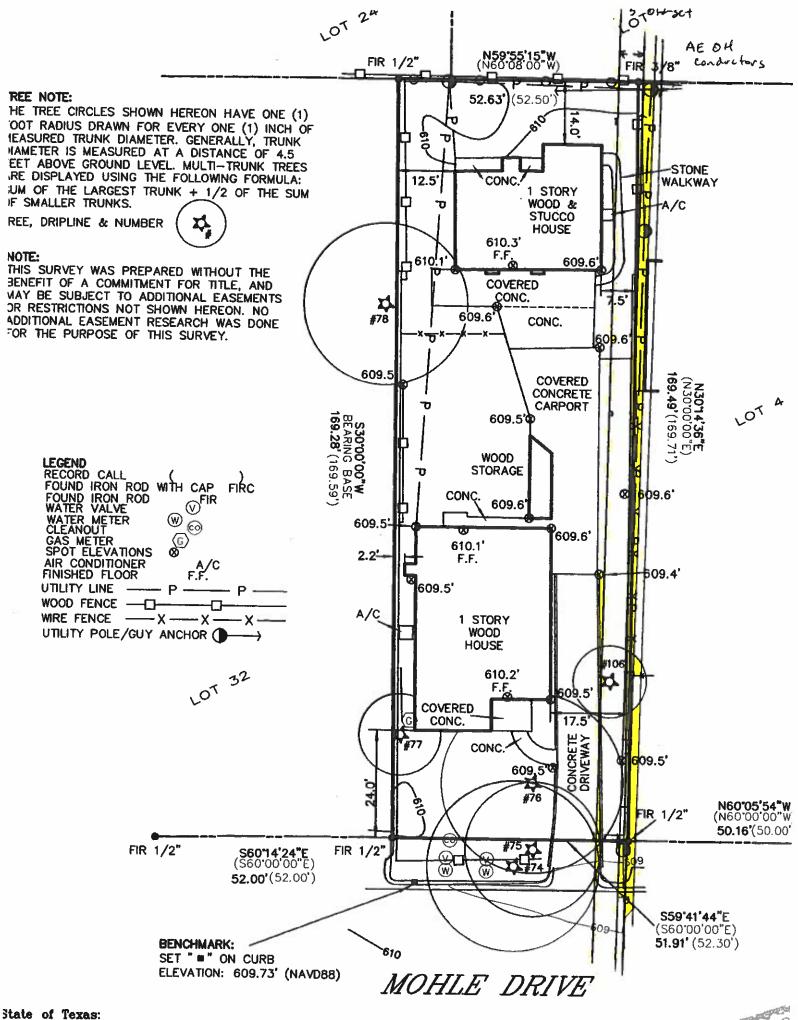
Residential Review – One Texas Center 505 Barton Springs Road, Austin, TX 78704; (512) 978-4000

# Residential New Construction and Addition Permit Application

To complete this form electronically: Open with Internet Explorer, then <u>Click Here to Save</u> and continue.

Lot Area (sq fi): 8,890.00	Property Information	
Neighborhood Plan Area (if applicable): Workson Read, Contral West Austin Combined NPA  Required Reviews  Is project participating in S.M.A.R.T. Housing? Y N N (if yes, attach signed conditional approval letter from Austin Energy Green Building) Is this site within an Airprot Overlay Zone? Y N N (if yes, attach signed conditional approval letter from Austin Energy Green Building) Is this site within an Airprot Overlay Zone? Y N N (if yes, attach signed conditional approval letter from Austin Energy Green Building) Does this site have a soptic system? Y N (if yes, attach signed conditional approval letter from Austin Energy Green Building)  Does this site have a soptic system? Y N (if yes, attach signed conditional approval letter from Austin Energy Green Building)  Does this site have a soptic system? Y N (if yes, attach signed conditional approval letter from Austin Energy Green Building)  Does this site have a soptic system? Y N (if yes, attach signed conditional approval letter from Austin Energy Green Building)  Is this property within 120 Feet of the 100 year floodplain?  Y N (if yes, Fire review is required)  Is this site located within an Erosion Hazard Zone? Y N N (if yes, Fire review is required)  Is this site within the Residential Design and Compatibility Standards Oordinance Boundary Area? (LDC 25-2 Subchaper? ) N  Does this site within the Residential Design and Compatibility Standards Oordinance Boundary Area? (LDC 25-2 Subchaper? ) N  Are there existing water/wastewater infrastructure, appurtenances or existing water/wastewater water availability? N  N wastewater availability? N  N water/wastewater uses and/or service extension request.)  Are there existing water/wastewater infrastructure, appurtenances or existing water/wastewater approved auxiliary and potable plumbing plans.)  Are there existing water/wastewater water availability? N  N water/wastewater appeared on a water water availability? N  N water/wastewater appeared on a water water availability? N  N water/wastewater appeared on a wate	Project Address: 1607 Mohle Drive, Austin, TX 78703	Tax Parcel ID: 118002
Lot Area (sq fi): 8,890.00	Legal Description: Lot 31, summit place, a subdivision in Travis County, Texas, according to	the map or plat recorded in volume 3, page 237, of the plat records of Travis County, Texas
Required Reviews   Is project participating in S.M.A.R.T. Housing?   Y   N   N   (fyes, attach signed certification letter from NHCD, and signed conditional approval letter from Austin Energy Green Building.)   Does project have a Green Building requirement?   Y   N   (fyes, approval finough Avalion letter from Austin Energy Green Building.)   Does this site within an Airport Overlay Zone?   Y   N   N   (fyes, attach signed conditional approval letter from Austin Energy Green Building.)   Does this site have a septic system?   Y   N   N   (fyes, attach signed conditional approval letter from Austin Energy Green Building.)   Does this site have a septic system?   Y   N   N   (fyes, attach signed conditional approval specific permit)   Does this site within an Airport Overlay Zone?   Y   N   N   (fyes, brite review is required)   St this property within 200 feet of a hazardous pipeline?   Y   N   N   (fyes, Fire review is required)   St this still be located within an Erosion Hazard Zone?   Y   N   N   (fyes, Elick here for more information on the tree permit process.)   Is this site within the Residential Design and Compatibility Standards Ordinance Boundary Area? (ILC 25-2 Subchapter F)   Y   N   (fig. contact Austin Water Utility to apply for water/wasterwater availability?   Y   N   (fig. contact Austin Water Utility to apply for water/wasterwater availability?   Y   N   (fig. contact Austin Water Utility to apply for water/wasterwater availability?   Y   N   (fig. contact Austin Water Utility to apply for water/wasterwater availability?   Y   N   (fig. contact Austin Water Utility to apply for water/wasterwater availability?   Y   N   (fig. contact Austin Water Utility to apply for water/wasterwater avail material review that approved auxiliary and potable plumbing plans.)   Does this site have a well, rinawater harvesting, river water, the water, technical dater, etc.)   N   (fig. contact the Development Assistance Center for more information)   Is this site within the Waterfront Overlay?   Y   N   (fig.		
Required Reviews	Neighborhood Plan Area (if applicable): Windsor Road, Central West Austin Combined N	
If yes, attach signed conditional approval letter from Austin Energy Green Buildings   University of the Content of Con		
Cif yes, attach signed certification letter from Austin Energy Green Buildings	Is project participating in S.M.A.R.T. Housing? Y N	Does project have a Green Building requirement?
If yes, approval through Avation is required  Does the structure exceed 3,600 square feet total under roof?  Y N (If yes, Fire review is required)  Is this property within 200 feet of a hazardous pipeline?  Is this site located within an Erosion Hazard Zone?  Is this site located within an Erosion Hazard Zone?  Is this site located within an Erosion Hazard Zone?  Y N Is this site for the 100 year floodplain?  Y N (frox. Fire review is required)  Is there a protected sized tree on this lot or adjacent lot(s)?  Is there a protected sized tree on this lot or adjacent lot(s)?  Is the site within the Residential Design and Compatibility Standards Ordinance Boundary Area? (LDC 25-2 Subchapter F) N (If yes, elick here for more information on the tree permit process.)  Is this site within the Residential Design and Compatibility Standards Ordinance Boundary Area? (LDC 25-2 Subchapter F) N (If yes, contact Austin Water Utility pto apply for wastewater availability?  Wasterwater availability?  Y N (If no. contact Austin Water Utility pto apply for wasterwater transmit wasterwater availability or apply for wasterwater transmit process.)  Are there existing water/wastewater availability?  Y N (If yes, submit a copy of approved septice within to the district of the contact Austin Water Utility pto apply for wasterwater transmit wasterwater availability?  Y N (If yes, contact Austin Water Utility pto apply for wasterwater transmit process or existing water/wastewater as account and approval.)  Is this site have or will it have an auxiliary water source?  Y N (If yes, submit approved auxiliary and potable plumbing plans.)  Is this site in a paved street?  Y N (If yes, contact the Development Assistance Center for more information)  Is this site within the Waterfront Overlay?  Y N (If yes, contact the Development Assistance Center for Site Plan requirements).  Does this site have a Board of Adjustment (BOA) variance?  Y N (Public Works approval required to take access from a public alley.)  Is this site adjacent to a paved all	(If yes, attach signed certification letter from NHCD, and signed conditional approval letter from Austin Energy Green Building)	(If yes, attach signed conditional approval letter from Austin Energy Green
Does the structure exceed 3,600 square fect total under roof?  Is this property within 200 feet of a hazardous pipeline?  Is this site located within an Erosion Hazard Zone?  Y N (If yes, Fire review is required)  Is this property within 150 feet of the 100 year floodplain?  (If yes, Elize review is required)  Is this property within 150 feet of the 100 year floodplain?  Y N (If yes, Eire review is required)  Is this property within 150 feet of the 100 year floodplain?  Y N (If yes, Eire review is required)  Is this property within 150 feet of the 100 year floodplain?  Y N (If yes, Eick, here for more information on the tree permit process.)  Is this property within 150 feet of the 100 year floodplain?  Y N (If yes, eick, here for more information on the tree permit process.)  Is this site within the Residential Design and Compatibility Standards Ordinance Boundary Area? (LDC 25-2 Subchapter F) Y N  Does this site currently have: water availability?  Wastewater availability?  Wastewater availability?  Wastewater availability?  Wastewater availability?  Wastewater availability?  Y N (If yes, contact Austin Water Utility to apply for water/wastewater taps and/or service extension request.)  Are there existing water/wastewater infrastructure, appurtenances or existing water/wastewater assements located on site?  Y N (If yes, submit approved auxiliary and potable plumbing plans.)  Actualizing water supplies are welfs, rainwater harvesting, niver water, lake water, reclaimed water, etc.)  Does this site have a residential pesign and Compatibility Commission (RDCC) waiver?  Y N (If yes, contact the Development Assistance Center for Site Plan requirements.)  Is this site adjacent to a paved alley? Y N (If yes) N (If yes, contact the Development Assistance Center for Site Plan requirements.)  Does this site have a Board of Adjustment (BOA) variance?  Y N (If yes, contact the Development Assistance Center for Site Plan requirements.)  Is this site adjacent to a paved alley? Y N (If yes, contact the Development Assistanc	1	Does this site have a septic system? Y N
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Existing Use: vacant single-family residential duplex residential two-family residential other:  Proposed Use: vacant single-family residential duplex residential two-family residential other:  Project Type: new construction addition addition/remodel other:  Will all or part of an existing exterior wall, structure, or roof be removed as part of the project? Y N  (Note: Removal of all or part of a structure requires a demolition permit application.)  # existing bedrooms: 1 # bedrooms upon completion: 4 # baths existing: 1 # baths upon completion: 3.5  Project Description: (Note: Please provide thorough description of project. Attach additional pages as necessary.)  New single family construction, back guest house is to remain as auxillary structure. Front house to be completely demoed. New front home is to be single story stucco home.	Is Total New/Added Building Area > 5,000 Sq Ft? Y N	(If yes, construction material recycling is required per LDC 25-11-39)
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Will all or part of an existing exterior wall, structure, or roof be removed as part of the project?  (Note: Removal of all or part of a structure requires a demolition permit application.)  # existing bedrooms: 1  # bedrooms upon completion: 4  # baths existing: 1  # baths upon completion: 3.5  Project Description: (Note: Please provide thorough description of project. Attach additional pages as necessary.)  New single family construction, back guest house is to remain as auxillary structure. Front house to be completely demoed. New front home is to be single story stucco home.	Proposed Use: vacant single-family residential duplex	residential two-family residential other:
Will all or part of an existing exterior wall, structure, or roof be removed as part of the project?  (Note: Removal of all or part of a structure requires a demolition permit application.)  # existing bedrooms: 1  # bedrooms upon completion: 4  # baths existing: 1  # baths upon completion: 3.5  Project Description: (Note: Please provide thorough description of project. Attach additional pages as necessary.)  New single family construction, back guest house is to remain as auxillary structure. Front house to be completely demoed. New front home is to be single story stucco home.	Project Type: new construction addition	addition/remodel other:
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New single family construction, back guest house is to remain as auxillary structure. Front house to be completely demoed. New front home is to be single story stucco home.		# baths existing: 1 # baths upon completion: 3.5
	New single family construction, back guest house is to remain as	ditional pages as necessary.) auxillary structure. Front house to be completely
Trades Permits Required (Circle as applicable): electric plumbing mechanical (HVAC) concrete (R O W)		

Job Valuation	of person probability		E 18 80 18	J. 18 30 J. A			5 1 4 4
Total Job Valuation: \$ 400.000.00	and/or New Construction: \$ 400,000 0 dedicated to			of Total Job Valuation to all Remodel/Repair:			
Note: The total job valuation should be the sum total of all valuations noted to	Amount for Primary Str Elec: XY N   Plmb	Amount for Primary Structure: \$ 40,000.00			Elec:		00.00
the right, Labor and materials only, rounded to nearest dollar. Permit fees	Amount for Accessory	-	<i>d</i> 2	YY DN	Mech:	Plmbg: \$ 30,000,00  Mech: \$ 30,000,00	
are based on adopted fee schedule.	Elec: Y N Plmb			TY IN		LOO OF	)0100
Please utilize the Calculation Aid on the last page of the Additional Information, page 7, as a guide to complete following calculations and to provide supplemental information for thorough review.							
Site Development Information				Market 101	thorough r	CHEW.	12350 300
Area Description Note: Provide a separate calculation for ea	ach distinct area, Attach	Existing Sq Ft New		New/Add	New/Added Sq Ft		Sq Ft
additional sheets as necessary. Measurement of the exterior wall.	ents are to the outside surface	Bldg 1	Bldg 2	Bldg 1	Bldg 2	Bldg 1	Bldg 2
a) 1 <sup>st</sup> Floor conditioned area		804.0	0		2,479.00	804.00	2,479.00
b) 2 <sup>nd</sup> Floor conditioned area						0.00	0.00
c) 3 <sup>rd</sup> Floor conditioned area						0.00	0.00
d) Basement		177				0.00	0.00
e) Covered parking (garage or car	rport)					0.00	0.00
f) Covered patio, deck, porch,					207.00	0.00	207.00
g) Other covered or roofed are	a			2000年1900年		0.00	0.00
h) Uncovered wood decks						0.00	0.00
Total Building Area (total a	through h)	804.0	0.00	0.00	2,686.00	804.00	2,686.00
i) Pool		WATER STREET				0.00	0.00
j) Spa k) Remodeled Floor Area, excluding Addition /						0.00	0.00
New Construction		-					
Note: Building Coverage means the area of	Building Coverage Information  Note: Building Coverage means the area of a lot covered by buildings or roofed areas, but excludes ground-level paving, landscaping, open recreational facilities, incidental projecting eaves, balconies, and similar features. Pools, ponds, and fountains are not included in this measurement. (LDC 25-1-21)						cilities,
Total Building Coverage (sq ft):		lot size:			(250 25 1	,	
Impervious Cover Information	<u> </u>			<u></u>			
Note: Impervious cover is the total horizon gravel placed over pervious surfaces that a boards and that is located over a pervious	re used only for landscaping or	by pedestria	ins. For an uncover	ed wood deck th	at has drainage s	paces between th	ne deck
Total Impervious Cover (sq ft): 3	,875.00 % of	lot size: 4	14				
Setbacks	***					,	
Are any existing structures on this site a non-compliant structure based on a yard setback requirement? (LDC 25-2-492)  Does any structure (or an element of a structure) extend over or beyond a required yard? (LDC 25-2-513)  Is front yard setback averaging being utilized on this property? (LDC 25-2, Subchapter F, Sec. 2.3 or 25-2-778)  Y  N							
Height Information (LDC 25-1-21 or 25-2 Subchapter F, Section 3.4)  Parking (LDC 25-6 Appendix A & 25-6-478)							
Building Height: 11 ft 7 in Number of Floors: 1 # of spaces required: 2 # of spaces provided: 2							
Right-of-Way Information							
Is a sidewalk required for the proposed construction? (LDC 25-6-353)  *Sidewalks are to be installed on any new construction of a single family, two-family or duplex residential structure and any addition to an existing building that increases the building's gross floor area by 50 % or more.							
Will a Type I driveway approach	be installed, relocated, res	moved or	repaired as part	t of this proje	ct? ■ Y	N	
Width of approach (measured at p	roperty line): 17.0	ft	Distance from	intersection	(for corner lo	ts only):	ft
Are storm sewer inlets located alo (If yes, drainage review is required)	ng the property or within	ten (10) f	eet of the bound	daries of the p	property?	Y (N)	



State of Texas:

BU	ILDING AND SITE AREA	
AR	EA DESCRIPTION	AREA (SF)
LO	T SIZE:	8890
a)	1ST FLOOR CONDITIONED AREA (NEW BUILDING)	2479
Dj	1ST FLOOR CONDITIONED AREA (EXISTING BLDG)	804
c)	2ND FLOOR CONDITIONED AREA	
	BASEMENT	
	COVERED PARKING (GARAGE OR CARPORT)	
•	COVERED PATIO, DECK, OR PORCH	207
	BALCONY	
· ·	OTHER  TOTAL BUILDING COVERAGE (excluding b, c, & d)	3490
g.	DRIVEWAY	289
ø	SIDEWALKS	
k)	UNCOVERED PATIO	49
0.	UNCOVERED WOOD DECK	
m)	AC PADS	6
n)	OTHER (pool coping, retaining walls)	41
	TOTAL SITE COVERAGE	385
o)	POOL	
p)	SPA	

SITE DEVELOPMENT INFORMATION	
BUILDING COVERAGE	
PROPOSED BUILDING COVERAGE	3490
PERCENT OF LOT SIZE:	39.3%
IMPERVIOUS COVERAGE	
PROPOSED IMPERVIOUS COVERAGE	3875
PERCENT OF LOT SIZE	43.6%

APTER F		
		8890
AREA	EXEMPTION	TOTAL (SF
		3490
		3490
ARJ.		.393
R AREA (a	t 4 FAR).	3556
	A <i>R</i> J.	

#### LOT LEGAL DESCRIPTION

LOT 31. SUMMIT PLACE A SUBDIVISION IN TRAVIS COUNTY.
TEXAS, ACCORDING TO THE MAP OR PLAT RECORDED IN
VOLUME 3, PAGE 237. OF THE PLAT RECORDS OF TRAVIS COUNTY TEXAS

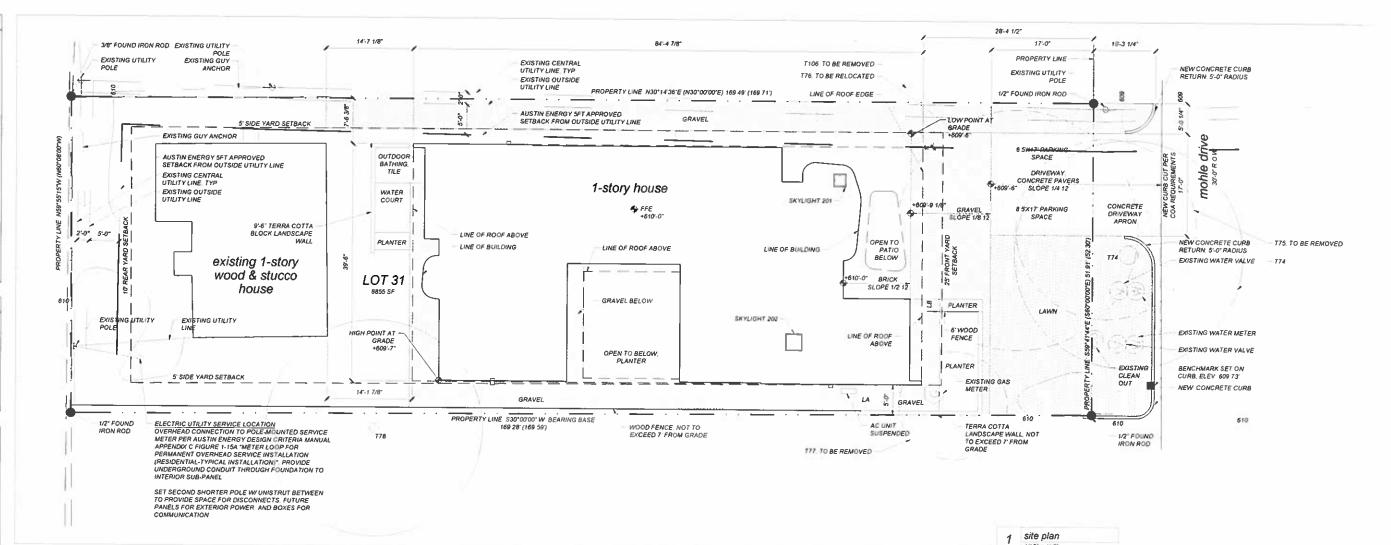
THIS SITE PLAN PRODUCED USING INFORMATION FROM A SITE SURVEY (DATED AUGUST 22ND, 2017, JOB NUMBER J15220) PRODUCED BY WATERLOG SURVEYORS. INC MAILING ADDRESS P O BOX 160176, AUSTIN. TEXAS 78716-0176 512-481-9602

TREE	LIST			
NO	DIA	SPECIES	NOTES	,
774	8.8.7.6	CREPE MYRTLE	The State of	
775	7.6.5.4	CREPE MYRTLE	TO BE REMOVED	
776	20	PALM	TO BE RELOCATED	
T77	9	JUNIPER	TO BE REMOVED	
T78	18	ELM		
T106	7	SWEET GUM	TO BE REMOVED	

- Tree protection notes:

  1 NO UNDERGROUND UTILITY TRENCHES PERMITTED IN 1/2
  THE AREA OF A TREE'S CRITICAL ROOT ZONE, OR WITHIN 12
  OF TRUNK, WHICHEVER IS THE LARGER DIAMETER
  NO ACCESS, PARKING, OR MATERIAL STORAGE WITHIN
  LIMITS OF TREE PROTECTION FENCE
  ALL ROOT CUTS TO BE CLEAN, MO FRAYED EDGES)
  4 AIR SPADE FERTILIZE, AND APPLY MULCH AT CRITICAL
  ROOT ZONE OF ALL TREES PRIOR TO CONSTRUCTION
  PROVIDE IRRIGATION TO TREES DURING CONSTRUCTION
  NO PIERS WITHIN 5' OF TREE TRUNKS
  PROVIDE TREE PROTECTION BOARDS AND FENCING
  AFTER CONSTRUCTION AT SPADE ALL TREES WHERE
  CONSTRUCTION ACTIVITIES HAVE COMPACTED SOIL WITHIN
  CRITICAL ROOT ZONE

- CRITICAL ROOT ZONE
- CRITICAL ROOT ZONE
  COORDINATE AREAS FOR MATERIAL STORAGE AND
  DELIVERY WITH ARCHITECT AND PREPARE SUCH AREAS SO
  THAT THEY CAN BE EFFECTIVELY USED FOR DELIVERIES
  AND DO NOT CONFLICT WITH TREE PROTECTION
- REQUIREMENTS
  PROVIDE AND MAINTAIN AN EROSION CONTROL SYSTEM WITH APPROPRIATE DEVICES PER STATUTORY REQUIREMENTS





A1 SITE PLAN & INFO
A1 S DEMO PLAN \* VISITABILITY
DIAGRAM
A2 DIAGRAMS
A3 FLOOR PLAN & SCHEDULES
A4 1 EXTERIOR ELEVATIONS
A4 2 EXTERIOR ELEVATIONS

S10 NOTES S20 FOUNDATION PLAN S21 LOWER LEVEL CEILING FRAMING PLAN S30 DETAILS S40 LATERAL BRACING PLAN

mohle residence



1607 mohle drive austin, texas 78703

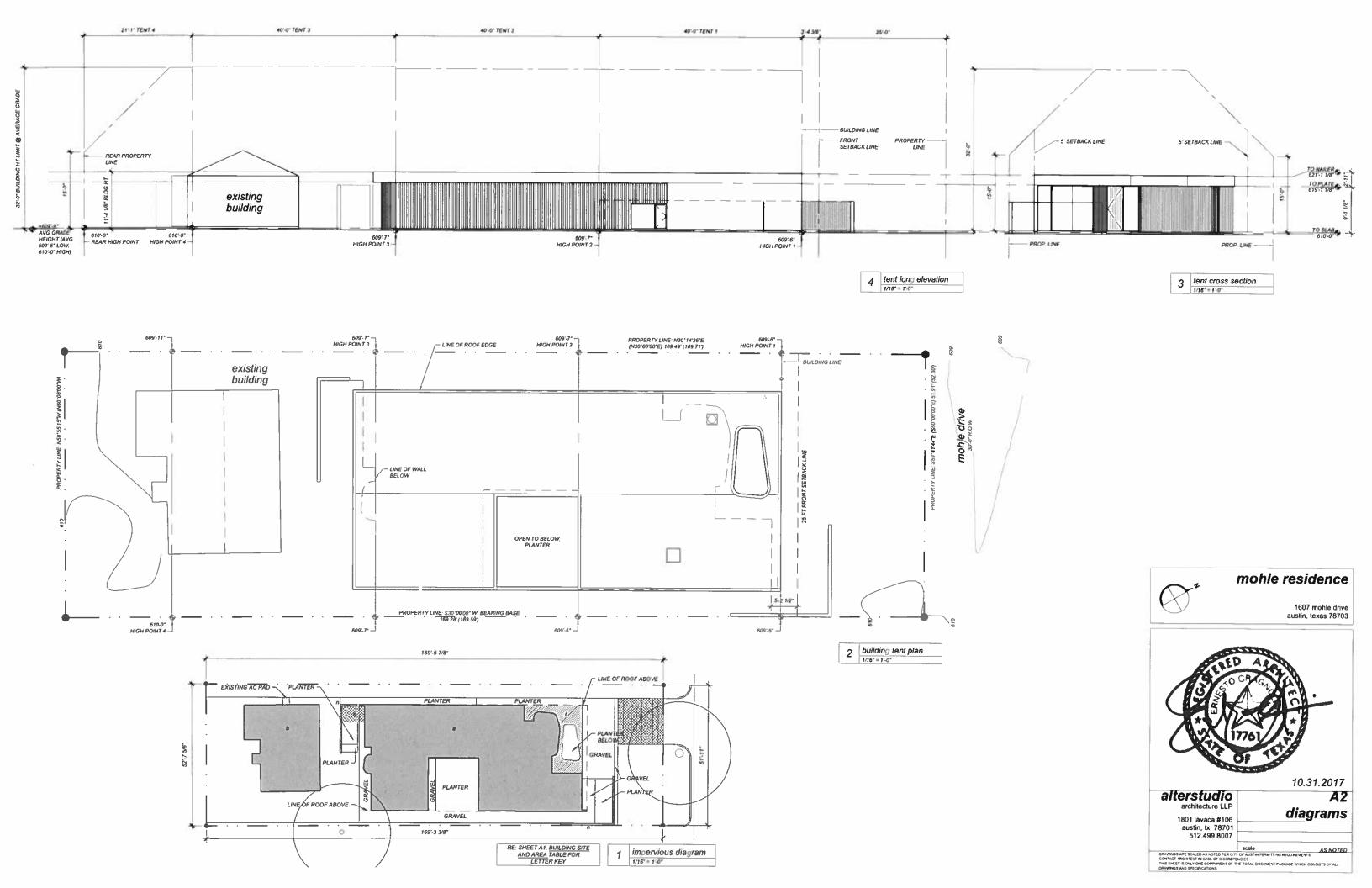


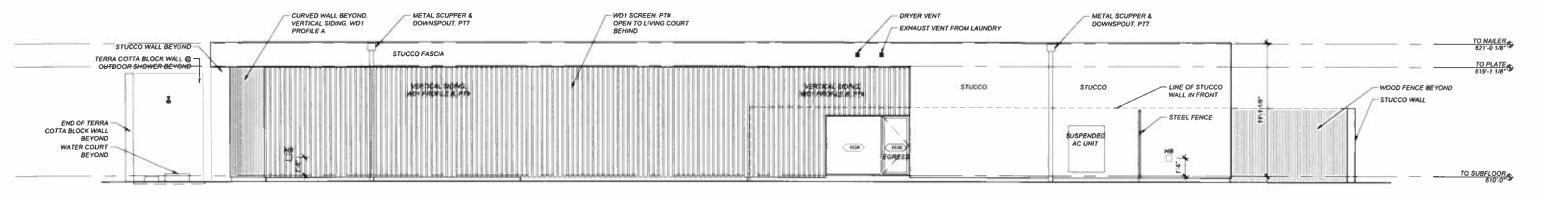
alterstudio A1

architecture LLP 1801 lavaca #106 austin, tx 78701 512 499 8007

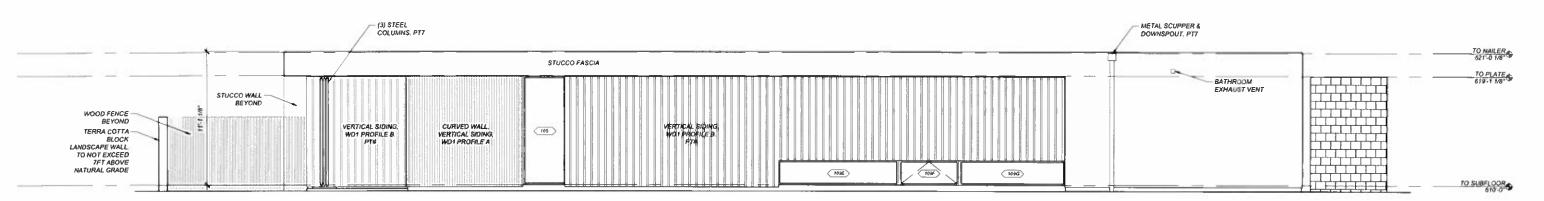
site plan + info

BEAM YOUR SHALED AS NOTED PER OFF OF AUSTIN PERMITTING REQUIREMENTS
CONTACT MICHIES IN CASE OF DESCRIPTIONS AUSTIN PERMITTING REQUIREMENTS
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DRAWINGS AND SEPERATIONS.

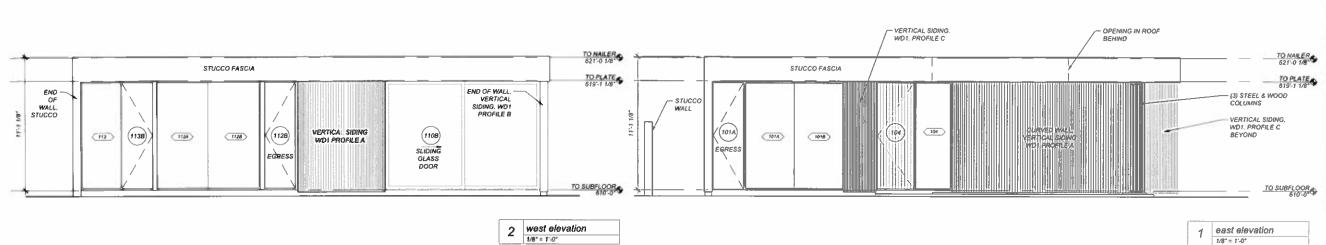


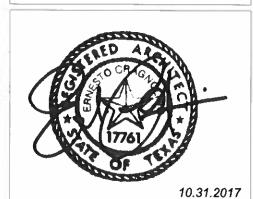


south elevation 1/8" = 11-0"



3 north elevation





mohle residence

1607 mohle drive austin, texas 78703

A4.1

alterstudio architecture LLP elevations 1801 lavaca #106 austin, tx 78701 512.499.8007

Scale

Scale

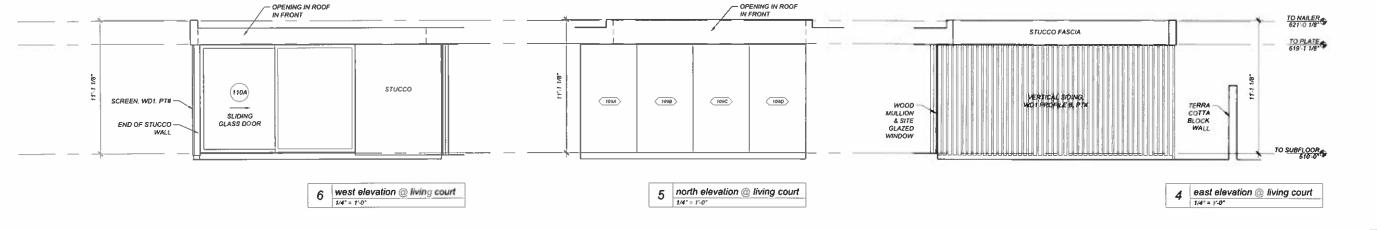
AS NOTED

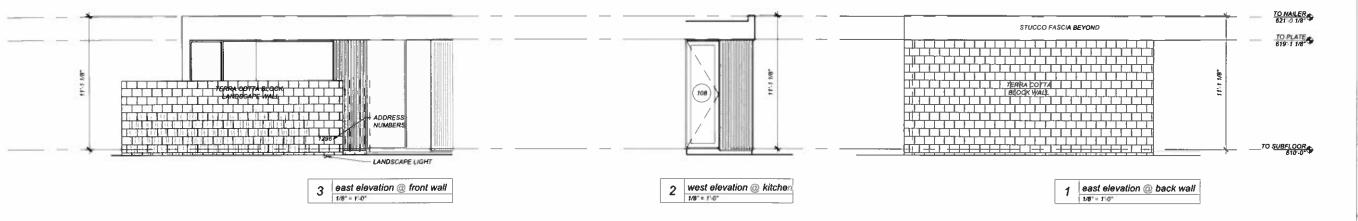
CONTACT ARCHITECT IN CASE OF DECARRENCES
THAS RECURSEMENTS
THAS RECURSE WHICH CONSISTS OF ALL

DIAMENS AS RECURSED.

SET IS ONLY ONE COMPONENT OF THE TOTAL DOCUMENT PACKAGE WHICH CONSISTS OF ALL

DIAMENS AS IN DECEMBERS.



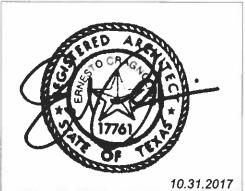




# mohle residence

1607 mohle drive austin, texas 78703

A4.2



alterstudio architecture LLP elevations 1801 lavaca #106 austin, tx 78701 512.499.8007

DRAWMGS ARE SCALED AS NOTED PER OTTO A MUSTIN PERMITTING REQUREVENTS
CONTACT ARCHITECT IN CASE OF DISCRETENCES
THIS BEET S DAY ONE COMPONENT OF THE TOTAL DOUARUIT PACKAGE WHICH CONSISTS OF ALL
DRAWMGS AND EXPERIENCES.

Du

ENGI

Austri, Texa

# Mohle

NAILING SCHEDULE	
joist to sill or grider, toe nail	3-8d
1"x6" subfloor or less to each joist, face nai	2-8d
2° subfloor to joist or girder, blind and face nail	2-16d
sole plate to joist or blocking, face nail	16d @16°a c
top or sole plate to stud, end nai	2-16d
stud to sole plate. toe nail	3-8d or 2-16d
double studs, face nail	10d@24° c
double top plates. face nail	10d@24*o c.
sole plate to joist or blocking at braced wall panets	3-16d@16°0¢
double top plates, minimum 48" offset of end joints, face mail an tapped area	8-16d
blocking between joists or rafters to top plate, toe nail	3-8d
nim joist to top plate.	3-au
top plates, laps at	8d@6"e.c
comers and intersections.	2-10d
built-up header, two pieces with 1/2" spacer	16d @ 16*e c each edge
continued header, two pieces	16d @ 16" c. each edge
ceiling joists to plate. toe neil	3-8d
continuous header to stud, loe nail	4-8d
ceiling joist, laps over partitions, face nart	3-10d
celling joist to parallel ratters, face nail	3-10d
rafter to plate, toe nail	2-16d
1" brace to each stud and plate, face nari	2-8d or 2 stpts 1 3/4
1"x6" sheathing to each bearing, face nail	2-8d or 2 stpts 1 3/4
1"x8" sheathing to each beanng tace nail	3-8d or 3 stpls 1 3/4
wider than 1°x8° sheathing to each bearing face nail	3-8d or 4 stpls 1 3/4
built-up corner studs	10d @ 24°o c
built-up girders and beams, 2" fumber layers, at top a bottom and staggered. Two nats at er splice	
2" planks	2-16d @ ea bearing
roof rafters to ridge, valley or hip rafters: toe nail	4-16d
face nail	3-16d
collar bes to rafters, face nail	3-8d
5/16" to 1/2" wood structural panel 6d (wall) 8d (roof)	6" edge 12" field
19/32" to 1" wood structural panel 8d	6" edge 12" field
1-1/8" to 1-1/4" wood structural panel 10d	6' edge 12' field
1/2" gypsum sheathing 1-1/2" galv roofing nail or 1-1/2" screw, type w or s	4° edge 8° field

5/8" gypsum sheathing

1-3/4" galy, roofing nail or 1-5/8" screw. Ivpe w or s

#### GENERAL

Dimensions refer to rough surfaces. The contractor must verify all dimensions prior to start of construction the engineer shall be notified of any

discrepancies or inconsistencies

All drawings are considered part of the The contractor shall be drawings and specifications prior to the start of construction. Any discrepancies that occur shall be brought to the attention of the engineer prior to the start of construction so that clarification can be issued. Any work in conflict with the contract documents or any code requirements shall be corrected by the contractor at his own expense and These drawings are based on architectural drawings by.

#### received August 3, 2017

All work shall conform to the minimum standards of the building code as well as any other regulating authority over any portion of the work including those additional codes and standards listed in the structural notes and specifications

The engineer shall not control and shall not esponsible for construction means, methods, techniques, sequences or procedures; for safety precautions and programs in connection with the work: for acts or o ons of the contracto work, or for the failure of any of them to carry out the work in accordance with the contract

Site observations by field representatives the engineer are solely for the purpose of determining if the work of the contractor is proceeding in accordance with the structural wings This limited site observation should not be construed as exhaustive or continuous to check the quality or quantity of the work, but rather an effort to quard the owner against acts or deficiencies in the work of the contracto

All structures require periodic maintenance to extend life span and to insure structural integrity from exposure to the environment. A planned program of maintenance shall be established by the building owner. This program shall include items such as painting of structural steel, protective coating for concrete, sealants, caulked joints nsion joints, control joints, spalls and cracks in

#### STRUCTURAL FASTENERS

#### NAILS

All hails sinker halls per ASTM F1667-95, steel wire

#### FINISHES

Where a preservative other than horate is used and ctors and fasteners (including naits and boils contact treated lumber, use stainless steel connectors and fasteners, unless builder and supplier can demonstrate that pressure treatment is

#### GLUE

Glue shall meet the requirements of the America and shall be applied as directed by the glue manufacturer. Glue may be applied manually o

#### EXPANSION ANCHORS

Simpson Strong-Bolt, 1/2" dia\_installed as directed

#### WOOD SCREWS, LAG SCREWS AND BOLTS.

Wood screws shall comply with ASME B18 6 1 Unless noted otherwise, screws are #8

Lan screws shall comply with ASME RIS 2.1 ss noted otherwise, lag screws are 1/2" dia by length as required to penetrate secondary memb

# Applicable ASTM specifications for bolts

#### POWDER-ACTUATED FASTENERS (PAFS)

PAEs shall comply with CABO NER-272 where rmitted by details, wood sill plates may be stened to the concrete stab using powder drive pins following manufacturer's reco The fastening system shall have ICBO approval Pris shall have a minimum shank diameter of 0 177\*, a minimum length of 3 1/4\*, and be spaced

#### FINISHING MATERIALS

#### Masonry Veneer

Maximum wall height. Install over a backing of wood wall and limited in height to a maximum of 30 feet above the foundation (38 feet permitted at

Masonry on wood Where indicated on plans, masonry weighing less than 40 psf may be supported on wood framing (deflection limited to L/600). Install a movement joint between the veneer supported by wood and the veneer supported by foundation. Anchorage Anchor to wood wall framing

with corrosion-resistant 22 gage x 7/8" corrugated sheet metal bes spaced a maximum of 24" honzontally and 19 5' vertically

d Lintels over openings. Support masonry on loose lintels per code supported on masonry to Isolation joints: Install vertical colation/expansion mints at approximately 25 feet

Gypsum. Comply with GA-216-2000 "Application and Firtishing of Gypsum Board"
Flexibility details in GA-216-2000 such as control icints and comer details shall be used Tile Comply with American National

Standard Specifications for the Installation of

as control and expansion joints shall be used

Ceramic Tile Flexibility details in specification such

#### STRUCTURAL STEEL

#### STANDARD SPECIFICATIONS AND CODES

Structural steel design, fabrication and construction governed by ASD Specification for Structural Steel Buildings; Specification for Structural Joints using ASTM A325 or A490 bolts, and Code of Stand Practice for Steel Buildings and Bridges

All hot rolled structural steel plates, shapes and bars shall be new steel conforming to ASTM A6-98A

Unless noted otherwise on these drawings structural steel shall be as follows:

W-shapes	ASTM A9
C-shapes	ASTM A3
Lishapes	ASTM A3
HSS-shapes	ASTM A5
	Fy = 46 K:
All connection males	al and dank areas

jusset plates, stiffener plates, angles, etc ASTM A36 (unless higher grade is required by strength)

### CONNECTIONS

See typical details on drawings STRUCTURAL BOLTS AND THREADED

Unless noted otherwise, all boits in structural connections shall conform to ASTM A325

Threaded rod F 1554 grade 36 Pins ASTM A36

Welding shall conform to the American Welding Society Standard D1 1 2 Unless noted otherwise, electrodes for welding shall conform to E70XX (SMAW)

#### ANCHOR RODS

Anchor rods ASTM F1554 grade 36

#### GROUT

Grout non-metallic, non-shrink grout with a minimum strength of 6000 psi

#### HEADED CONCRETE ANCHORS

Headed concrete anchors shall be nelson headed concrete anchors (or approved equal), and shall conform to ASTM A108, grades C-1010

through C-1020.

Anchors shall be automatically end welded with suitable stud welding equipment in the shop or in the field, welding shall be in accordance with the s of the nelson stud welding

#### WOOD FRAMING

#### GENERAL

Lumber, All materials and workmanship shall conform with the requirements of the latest "National Design Specifications for Stress-Grade mber and its Fastenings" by National Forest

All lumber shall be Southern Pine (\$4\$) conforming to the standard grading and dressing rules of the Southern Pine Inspection Bureau 3 Unless indicated otherwise, the minimum grade of structural members shall be as follows

other fumber Microfam (LVL) laminated veneer fumber LVL shall be manufactured by Trus Joist, and design shall be in accordance with ICBO ES ER-4979

Phywood or OSB Sheathing/single floo shall be extenor grade bear the following APA span 15/32" roof sheathing 32/16 1 1/8" single floor t&g | 48 oc 15/32" waft sheathing | 32/16

All floor sheathing shall be glued to the joists. The field-glued system shall comply with the ecommendations of the American Plywood At roofs, unsupported physocic panel end

not corrosive to galvanized metal.

and side edges shall be backed with 2x4 flat blocking or Simpson panel sheathing clips All framing connectors shall be Simpson Strong-Tie. Where connectors and fasteners contact treated lumber, use stainless steel supplier can demonstrate that pressure treatment is

#### STUD WALL NOTES:

See architectural drawings for exact plate

Compare architect's plate heights and wall sizes to the table below for acceptable max Contact engineer if discrepancies are found

#### 2x6@24°oc 16'-0 2x6@16°0c 18'-0"

supporting one floor and a roof 2x4 @ 24° a c not permytted 2x4 @ 16° oc 10'-0'

2x6 @ 16° o c 18'-0' Bottom plate Treated 2x same width as wall studs. Anchor with 1/2" dia. anchor bolt embedded 7" and spaced maximum 6"-0" o c Locate anchors

Attach interior walls to slab with pals spaced at 12" o.c. with two pins 6" and 10" from each end

of each plate.
5 Where joists, trusses or rafters are spaced more than 16" o c and bearing studs below are spaced at 24' members must bear within 5° of study

Drilling and notching - Studs a In exterior walls or bearing partitions, notch

a maximum of 25%. b. In nonbearing partitions, notch a maximum c Any stud, bore/dell no closer than 5/8" to

edge of stud and not in the same section as a cut or notch and a maximum diameter of

provided the stud is doubled and no more than two successive studs are bored. With engineer's prior approval Simpson HSS/SS stud shoes may be used in specific cases of notches or bores exceeding these

 Drilling and notching - Top plate: When piping in a wall necessitates the cutting of a top plate by more than 50% its width, use a Simpsor RPS strap be at each plate with six 16d nails each

#### WOOD FRAMING:

#### WALL BRACING NOTES

1 Graced wall lines: Using braced wall panel construction in accordance with the prescriptive methods of IRC, brace walls as follows:
a Exterior walls. Continuous structural panel

sheathing (thickness as noted above). including above and below openings, shall be used on the outside face of all exterior walls (blocking of edges not required), and any braced wall lines that include an extenor wall are considered adequately

lenor walls: 1x4 let-in braces sloped between 45 and 60 degrees from horizontal and notched into top and bottom plates and intervening studs and attached with two 8d nails at each plate/stud or simpson WB wall bracing installed in accordance with manuf. specs. or 1/2" thickness gypsum board minimum 48" wide attached to studs w/ 6d

nails @ 7" o.c. Bracing locations As described below where architectural layout will not permit the application of these prescritive methods use seared shear walls as indicated and detailed o these drawings. Contractor must review drawings. pnor to construction and contact engineer if discrepancies are found

 For one story or top story of two or three:
 Locate at each end and at least every 25 feet on center but not less than 16% of braced wall line

b First story of two story second story of three story. Locate at each end and at least every 25 feet on center but not less than 25% of braced wall line.

Locate braced wall panels within 12-6" of ne end of each braced wall line.

Out-of-plane offsets up to 4'-0" are permitted in braced wall lines

Alternals braced wall name: In one and two 5 Atternate praced was panel, in one and story houses, a panel constructed in accordance with IRC R602 10 6 can be considered a braced

#### ROOF AND CEILING STRUCTURE NOTES.

Where shown on plan, provide puran same size as rafters and braced with (2)2x4 braces at 48° o c Slope braces between 45 degrees and vertical Ridge board braced as shown on plan with

(2) 2x4 braces sloped between 60 degrees and Brace roof only as shown on plan Contractor must compare resulting rafter spars to allowable span chart and contact engineer for

owable span chan and contact engineer for proval of any necessary additional braces Unless noted otherwise, for ridges, hips and valleys, use one mill size larger than the common rafters it supports. Center any splices on an ad brace mount At point-of-support for braces, adequately

block walls and beams to prevent rotation and Compare ceiting joist sizes shown on plan engineer if discrepancies are found

# Maximum Span for #2 Southern Pine

spacing	24° o c 16° o.c. 12° o.c.
2x6	11'-0" 13'-6" 15'-6"
2x8	14'-2" 17'-5" 20'-1"
2x10	16'-11' 20'-9" 23'-11"
2x12	19'-10' 24'-0' 24'-0'

Table R802 4 2 with 20 psf live load 10 ps1 dead load, L/240 allowable deflection Manmum Span for #2 Southern Pro-Rafters with Light Roof Covering and Not Supporting Ceiling

> 24' o.c. 16' o.c. 12' o.c. 2x10 18"-11" 23"-2" 24"-0" 2x12 22'-2" 24'-0" 24'-0"

Table R802 5 1(1) with 20 pst live load. 10 psf dead load 1,/180 allowable

H2 5 iturnicane ties at every rafter, Block beams joists, rafters and trusses at

#### FLOOR TRUSSES

Trusses to be designed by truss engineer oployed by truss manufacturer and in accordance

National Design Specification for Wood uction, AF&PA National Design Standard for Metal Plate edied Wood Truss Construction ANSI/TPI 1-1995

Local code innividation Design trusses for the minimum line and point loads shown on plan (line loads from uppe walls are minimum 100 lb/ft u.n.o.) and unless otherwise on the plan, the following minimu

Top chord live load Top chord dead load Bottom chord dead load 20 ps 5 psd

Maximum deflectors: under live load only: under live + dead load L/240

3. Prior to fabrication, truss design drawing bearing the seal and registration number of Texas regist red engineer shall be submitted to: Builder/Architect for approval of all truss ons, pitches and eleva

Engineer for approval of truss layout and 4 Strongbacks: Install continuous 2x6 (mm.)

strongbacks through floor trusses at mid-span and spaced a maximum of 10'-0' o c.

Fasten with three 16d nails at each vertical Where vertical web members are not suitably located for strongback attachment, install

Restrain stronoback at each end Locate strongback as close to bottom chord Alterations to trusses. Cutting and aftering trusses is not permitted

6 Bracing Restrain top chord with floor sheathing and bottom chord with ceiling gypsum. Restrain trusses at points of bearing to prevent toppling. 7. Load transfer through inter-floor space. Use same-size blocking to transfer load from upper walls/columns to lower supporting walls/columns/beams do not place point loads or insupported floor sheathing 8 Transitory floor vibration and sound transmission. The floor system includes no sound transmission. Expect similar performance to smilar systems in similar projects. Contact engineer prior to construction if specific performance criteria are desired.

#### HANGER SCHEDULE

Member Size	Simpson Designation	Load	Load
24	LU24	445	565
26	LU26		830
26	LU28	890	1 110
2-10	LU28	650	1110
2-12	LU213	1110	1 390
12)2:4	LUS242	765	980
1212×6	LUS26-2	1000	1 750
(2)2+8	LUS28-2	1 265	1 585
(2)2×1()	LU\$210-2	1 766	2210
(2)2:12	LU\$210-2	1 765	22t0
3,246	LU\$263	1000	1250
3(2)8	1.US28-3	1266	T 585
3(2:1)	LUS215-3	1765	2210
3;2x12	tU5210-3	1 765	2210
(2)1 75x11 875	HOUS48	6 505	7 925
(2)† 75a14	HGUS410	8 750	8 940
(2)1 75×16	HGUS41()	8780	8 940
(2)1 75x16	HGUS414	10-015	10 015
3j1 75x11 875	HGU\$5 50/12	9 155	9155
(3)1 //5x14	HGU\$5 50/14	10 015	10 015
3 <sub>1</sub> 1.75x16	HGU\$5 50/14	10 015	10 015
(3)1 75×18	HGU\$5 50/14	10 015	10 015

#### ROOF TRUSSES

Trusses to be designed by truss engineer yed by truss manufacturer and in accordance

National Design Specification for Wood Construction, AF&PA, National Design Standard for Metal Plate Connected Wood Tress Construction ANSI/TPI 1 1995

Design roof trusses for the minimum line and point loads shown on plan and, the following

Top chord live load See Roof Live Load Top chord dead load See Dead Load Roll chord live load 10 psi 5 psi Bot chord dead load under live load only L/360 1,7240

to fabrication, truss design drawings bearing the seal and registration number of Texas registered engineer shall be submitted to - Builder/architect for approval of all truss Engineer for approval of truss layout and

design inputs 4 Stronghacks install continuous 2v6 (min.) strongbacks through trusses at mid-span and spaced a maximum of 10'-0' o c

Fasten with three \$6d nails at each verbilal Where vertical web members are not suitably located for strongback attachment install vertical 2x4 block fastened with two 16d nails at bottom chords Restrain strongback at each end Locate strongback as close to bottom chord

Alterations to trusses: culting and altering trusses is not permitted 6 Truss bracing
Restrain top chord with roof sheathing

Brace bottom chord with 1x4 spaced per truss designers requirements (8:0" Restrain trusses at points of bearing with

blocking and humcane ties per details Brace web compression members with continuous 2x4 ner truss designers Install 2x4 X-braces at third points of

The following items are beyond the scope of the structural engineer and are therefore the responsibility of others. The client is responsible to arranging for the design of these systems. Any mention of these items on these drawings is for information purposes only and does not relieve the client of these responsibilities.

Drainage systems including surface drainage, any area inlets, grate drains french drains and subgrade drain pipes Waterproofing systemi including vapor barriers, roofing, flashing, waterproofing and drip edges. Ventilation systems including crawlspace

Surfaces steeper than 1 vertical to 4 honzontal which are to receive fill must be benched Select undersials fill restand shall be composed of hard durable particles of gravel or crushed stone and shall meet the following chiena

Gradation:	
Sieve SIZE	% finer by weight
1-3/4"	100
1-1/2"	85 - 100
3/4"	45 - 75
No. 4	25 - 70
No. 40	10 - 40
Material passing the no	40 sieve
% minus no 40	max.Pl min.Pl
25-40	15 3
10-25	20 4

Maximum liquid limit of the minus no 40 material shall be 45

No organic matter is permitted Compaction shall be to 95 percent of maximum laboratory density determined in accordance with ASTM D 698 Material shall be

common truss span. Extend X-braces from great truss to girder truss

## DRAINAGE, WATERPROOFING AND VENTILATION:

MATERIALS:

#### SELECT FILL

Sieve size	% finer by weight
1-3/4"	100
1-1/2"	85 - 100·
3/4"	45 - 75
No. 4	25 - 70
No. 40	10 - 40
Malerial passing the no. 40 sieve	
% minus no 40	max.Pl min.Pl
25-40	15 3
10-25	20 4

within three percent of optimum moisture at time of

Placements should be in lifts not exceeding

six inches after compaction

Backslopes Select fill shall extend a minimum of three feet horizontally beyond slab edges before sloping downward at 1V 2H backslope to natural soil. Backslope fall shall be we'll compacted. If perimeter grade beams are carried into natural soil, backstope fill is not required

#### RECURRED TESTING AND APPROVALS Fill material composition, placement and compaction shall be tested and approved by

the Geotechnical Engineer A 100 pound sample of proposed fill material shall be submitted to the Geotechnical Engineer a minimum 7 days in advance of filting and compaction operations to determin loishira-Dansily Ralationshii

Testing Frequency. Not less than one field density test per 2,000 square feel and minimum 3 fests per kft.

grade bearns and interior piers or hard points) penetrate fill, THE ABOVE TESTING AND

APPROVALS ARE NOT REQUIRED, and the

#### REINFORCED CONCRETE:

STANDARD SPECIFICATIONS AND CODES:

Structural Concrete Building Code Reg

Concrete shall meet the following 28 day strength: 3000 psi C33 aggregate type max aggregate size Reinforcing steel shall meet the following

#3 to #18. ASTM A615 grade 60

#### REINFORCING STEEL COVERAGE

For layer nearest surface unless specified otherwise

Concrete surfaces cast against and nermanesty in contact with earth #3 to #18 bars Concrete surfaces exposed to earth or #3 to #5 bars

#6 to #18 bars Concrete surfaces not exposed to weather or in contact with earth: #3 to #11 bars in slabs & walls 1' #3 to #18 bars in beams & colum

Contractor shall submit proposed locations for construction joints not shown on drawings for review by the Architect and Structural Engineer Embedded conduits pipes, and sleeves shall meet the requirements of ACI 318.02 Section

#### CONCRETE CRACK CONTROL

Install crack control joints @ 15'-0' o c e w. If crack control is not a consideration as determined by both the builder and the owner, then the joints may be eliminated Create crack control joints by toobing or

sawouthing to a depth of one third the slab thickness. Tool the base of all drops-in-slab to function as control joints

#### Use select fill as specified below (not on site (iii) in areas under building footprints. All till) in areas under building rootprints. All compaction to minimum of 95% of the maximum density obtained from standard proctor (ASTM D

FILL PLACEMENT.

698) No remove and replace required beyond ics and too soil Scanfy and re-compact all areas to receive surfaces sleeper than IV 4H which are to receive fill must be benched Select underslab fill material shall be

composed of hard durable particles of gravel or crushed stone and shall meet the following criteria Gradahor sieve siże 1-3/4\* % finer by wt 1-1/2" 85-100 NO. 40 NO. 40

Malenal nessing the no. 40 sieve

shall meet the following % passing no 40 max Pl min Pl 25-40 15 3 10-25 20 4 Maximum liquid limit o the -no. 40 material shall be 45 No organic matter is permetted Placements should be in lifts not excee

level-up course may be placed immediately below

concrete slab and waterproof membrane Proposed fill material should be submitted

testing agency for approval, in advance of placement
6 Backslopes: Select fill shall extend a minimum of three feet horizontally before stoping downward at 1V 2H backstope to natural soil. Backstope fill shall be well compacted. If perimeter grade beams are carned into natural soil, backstope

#### DESIGN DATA

GENERAL BUILDING CODE: requirements of THE 2012 INTERNATIONAL RESIDENTIAL CODE

Ground snow load 90 mph Exposure category: Seismic design category Live Loads: extenor balconi 60 psf fire escapes passenger vehicle garages attics without storage attics with storage rooms other sleeping rooms puardrails and handrails

Roof Live Load tributary area 201- 601-4:12:10<12:12 12 12.12 and up

# Dead Loads

15

membrane (2 psf)

flooring hardwood 7/8" thick (4 psf) carpet and pad (2 psf) Note: Materials indicated above were

ssumed in design. Prior to construction, ulder must compare to actual materials and weights and contact engineer if differences are found. Actual dead loads.

#### Deflections

The building movement specified below is contractor in the performance of the work rafters : 1/180 L/360

#### STRUCTURAL OBSERVATION

The structural engineer of record, or his designate, shall provide structural observation of the structural system for general conformance to the approved plans and specifications at significant construction stages and at completion of the structural system as noted efsewhere in the contract The contractor shall nobly the engineer a

minimum of 72 hours once to the date the

Framing prior to insula

observation is required The following items require structural Foundation reinforcing and pre-pour setup

#### FOUNDATION

The foundation design is based on the geotechnical investigation performed by CAPTIAL GEOTECHNICAL SERVICES dated September 25 2017 (project no 17-0124)

package

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