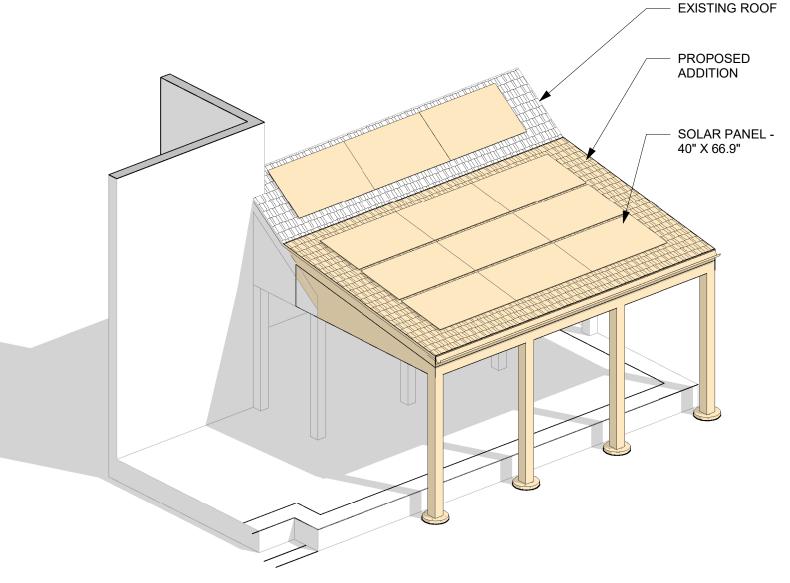
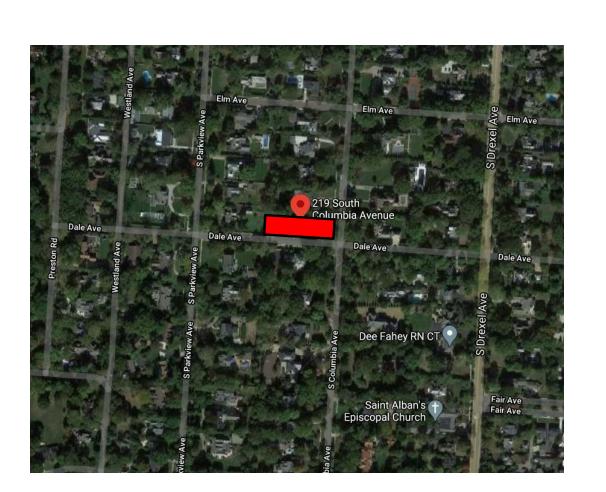
# COVERED PATIO ADDITION

219 S Columbia Ave, Bexley, OH 43209

# PERMIT SET







SITE MAP SCALE: NTS



# APPLICABLE CODES:

RESIDENTIAL CODE TO FOLLOW FOR - ONE, TWO AND THREE FAMILY BUILDINGS

- 2019 RESIDENTIAL CODE(RCO) 2017 OHIO PLUMBING CODE
- 2017 NATIONAL ELECTRIC CODE (NEC NFPA 70) 2018 INTERNATIONAL ENERGY CONSERVATION CODE
- 2016 NATIONAL FIRE ALARM CODE (NFPA 72)

## PROJECT DESCRIPTION:

218 S Columbia Ave proposes the addition of a side yard covered patio area that will replace an existing green awning.

The project is an additional 200 SF of roof to the existing home.

The materials and style will match the existing home through the use of color and proportion of the columns. The existing roof material is asphalt shingle and this will continue on to the new roof.

Additional scope includes the installation of exterior recessed lighting in the ceiling, a new fan in the ceiling, and a finished wood ceiling at the new addition and as a replacement of the existing patio ceiling.

# DRAWING LIST

COVER SHEET

SECTION & ELEVATIONS

STRUCTURAL PLANS & NOTES

Project Status Issue Date

SETH R. TRANCE

LICENSE # 1516507

EXPIRATION DATE 12/31/2021

PROJECT NUMBER : Project Number DRAWN BY: Author CHECKED: Checker

PREPARED FOR:

Chris Hayler & Elisabeth Hire

PREPARED BY:

STRUCT. ENGINEER SCHAEFER ENGINEERING, Inc

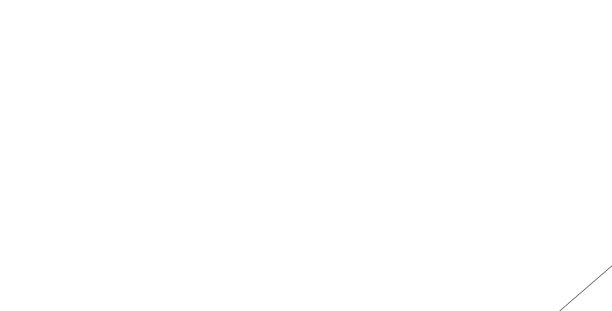
937 W 3rd Ave. Columbus, OH 43212 P: 614.428.4400 JEFF BOLCHALK, PE, SE

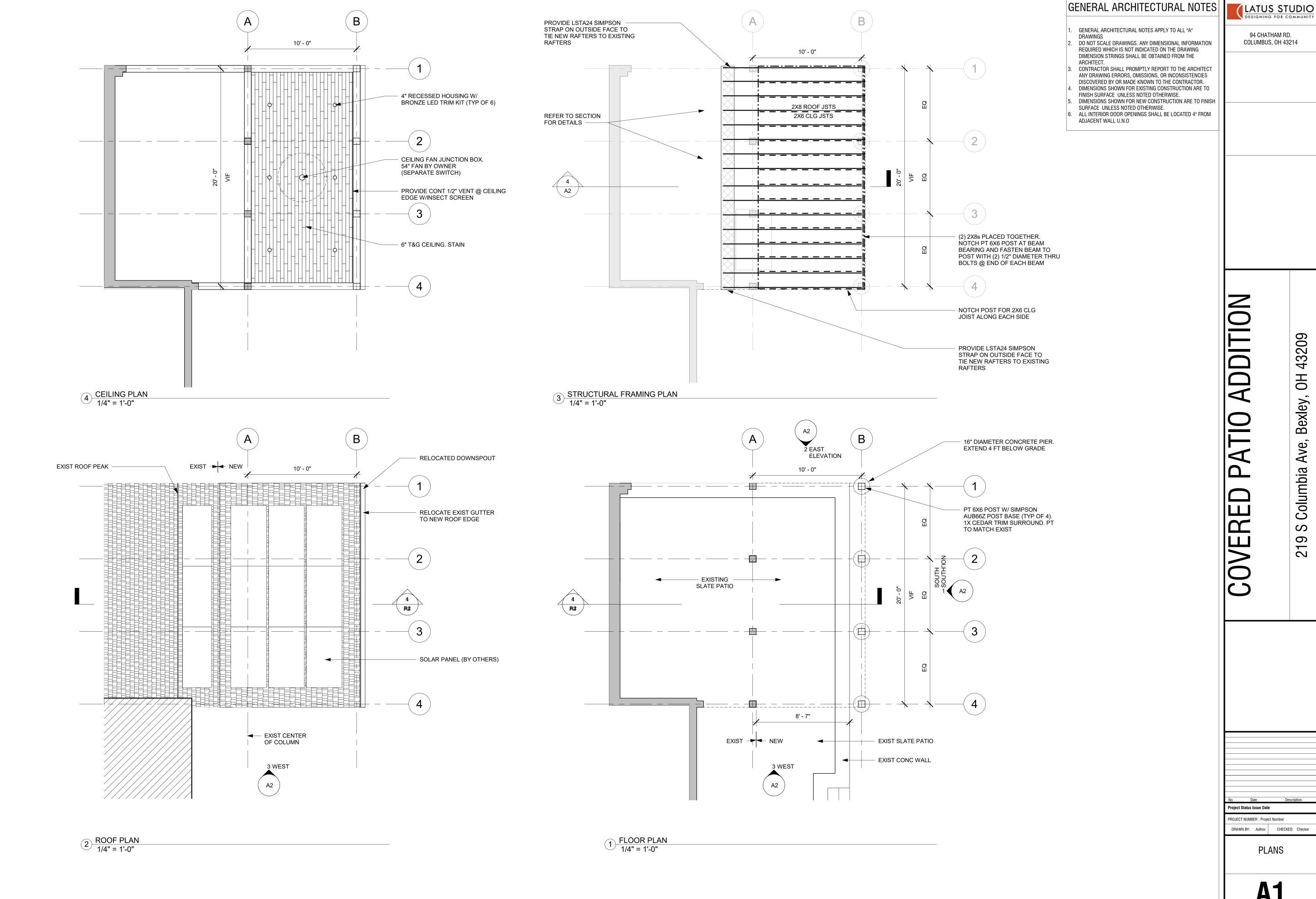
OWNER

ARCHITECT

LATUS STUDIO, LLC

**COVER SHEET** 





43209

HO H

Bexley,

Ave,

Columbia

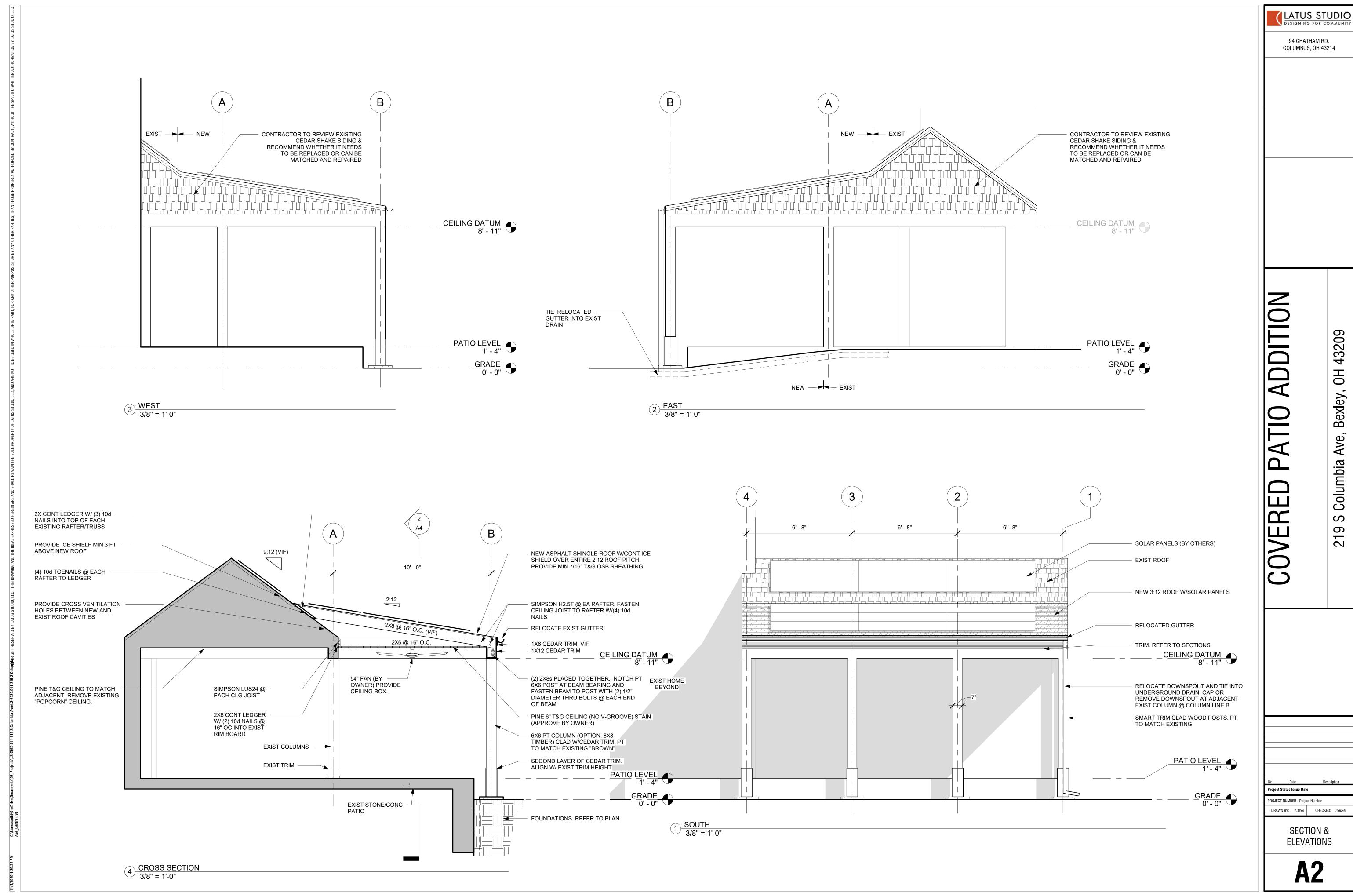
219

94 CHATHAM RD.

COLUMBUS, OH 43214

Project Status Issue Date PROJECT NUMBER : Project Number

**PLANS** 



43209 H0 Bexley, Ave, Columbia S 219 Project Status Issue Date PROJECT NUMBER : Project Number DRAWN BY: Author CHECKED: Checker SECTION & **ELEVATIONS** 

94 CHATHAM RD. COLUMBUS, OH 43214

#### **RESIDENTIAL STRUCTURAL NOTES**

#### **GOVERNING CODE**

2019 RESIDENTIAL CODE OF OHIO

#### DESIGN REQUIREMENTS

### 1. DESIGN LOADS

A.	FLOORS, STAIRS, & EXTERIOR DECKS	40 PSF LIVE + 10 PSF DEAD
В.	ATTICS (NO STORAGE)	10 PSF LIVE + 10 PSF DEAD
C.	ROOFS	25 PSF LIVE + 15 PSF DEAD

D. WIND SPEED, VASD (BASED ON 3-SECOND GUST)

2. DESIGN MAXIMUM ALLOWABLE LIVE LOAD DEFLECTIONS (BASED ON TABLE R301.7). WIND LOADS ARE TAKEN AS 0.7 TIMES COMPONENT AND CLADDING LOADS FOR PURPOSE OF DETERMINING DEFLECTION LIMITS.

A.	RAFTERS SLOPING > 3:12 w/ NO FINISH CEILING	L/180
В.	INTERIOR WALLS AND PARTITIONS	H/180
C.	FLOORS	<b>∟/480</b>
D.	CEILINGS w/ BRITTLE FINISHES (PLASTER AND STUCCO)	<b>∟/360</b>
E.	ALL OTHER STRUCTURAL MEMBERS	<b>∟/240</b>
F.	EXTERIOR WALLS-WIND WITH PLASTER OR STUCCO FINISH	H/360
G.	EXTERIOR WALLS-WIND LOADS w/ BRITTLE FINISHES	H/240
H.	EXTERIOR WALLS-WIND LOADS w/ FLEXIBLE FINISHES	H/120

#### CONSTRUCTION AND SAFETY

B. SHEATHING & SUBFLOORING:

UNLESS NOTED OTHERWISE.

ASTM F1554 GRADE 36.

CONNECTION.

WOOD SCREWS:

iv. LAG SCREWS:

BOTTOM OF LEDGER.

a) #8= 0.164" DIA

RATED SHEATHING AND SUBFLOORING.

3. ALL SUBFLOORING SHALL BE GLUED AND NAILED.

b) #10= 0.19" DIA

c) #12= 0.216" DIA.

a) 8d = 0.131" DIA, 2 ½" LG.

b) OTHER BOLTS: ASTM A307, SAE J429.

b) PREBORE HOLES PRIOR TO INSTALLATION.

i. MATERIALS:

D. FASTENERS:

i. BOLTS:

- 1. CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED TO MAINTAIN STABILITY UNTIL COMPLETE AND FUNCTIONING AS THE DESIGNED UNIT.
- 2. ARCHITECT/ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.
- 3. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ARCHITECT/ENGINEER IS RESPONSIBLE FOR HIS OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.

iii. 2 x 4 AND LARGER PRESSURE TREATED LUMBER: NO. 1 GRADE OR BETTER SOUTHERN

a) FLOOR SHEATHING: 23/32" APA SPAN RATING 48/24 TONGUE & GROOVE

USED BELOW THINSET CERAMIC TILE OR MARBLE FLOOR FINISHES.

PINE: PRESSURE TREAT TO AWPA USE CATEGORY UC2 FOR SILL PLATES; UC3B FOR

ABOVE GROUND EXTERIOR DECKING, STAIRS, RAILINGS, ETC.; AND UC4A FOR GROUND

SUBFLOOR EXPOSURE 1. ORIENTED STRAND BOARD IS NOT PERMITTED TO BE

b) ROOF SHEATHING: 19/32" APA SPAN RATING 40/20 ROOF SHEATHING EXPOSURE

c) WALL SHEATHING: 7/16" APA SPAN RATING 24/16 WALL SHEATHING EXPOSURE 1

a) ALL SHEATHING SHALL BE NAILED TO WOOD FRAMING WITH 8d NAILS AT 6" ON CENTER AT PANEL EDGES, 12" ON CENTER AT INTERMEDIATE SUPPORTS

C. ADHESIVE FOR SUBFLOORING: SHALL CONFORM TO PERFORMANCE SPECIFICATION AFG-01

a) ANCHOR BOLTS FOR ALL PRESSURE TREATED LUMBER SILLS (WITH THE

a) PROVIDE STANDARD WASHER BETWEEN HEAD TO WOOD CONNECTION.

2. UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE MADE PER TABLE 2304.10.1 "FASTENING

4. AT BOLTED 2x LEDGERS, PROVIDE NO LESS THAN 2" CLR. FROM CENTER OF BOLT TO TOP AND

SCHEDULE", IN REFERENCED BUILDING CODE. STAPLES NOT PERMITTED FOR FASTENING APA

ii. NAILS (CONTRACTOR SHALL CONFIRM NAIL SIZES INDICATED ON DRAWINGS AND NOTES MEET THE FOLLOWING DIAMETER AND LENGTH REQUIREMENTS):

EXCEPTION OF BORATE TREATED): STAINLESS STEEL TYPE 304 OR 316 OR HOT

DIP GALVANIZED ANCHOR BOLTS PER ASTM A123: ASTM A36, ASTM A307, OR

c) PROVIDE STANDARD CUT WASHER BETWEEN BOTH HEAD AND NUT TO WOOD

1. INSTALL PANEL CLIP THAT CREATES AN 1/8" SPACE BETWEEN PANELS AT MIDSPAN OF EACH TRUSS/RAFTER SPACE ALONG UNSUPPORTED SHEATHING

- 4. CONTRACTOR AND HIS AGENT(S) SHALL VERIFY ALL INFORMATION AND DIMENSIONS CONTAINED WITHIN THESE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, INCLUDING BUILDINGS, SITE CONDITIONS, AND ALLOWABLE SOIL BEARING PRESSURE. ALL ERRORS, OMISSIONS, AND INCONSISTENCIES ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. FAILURE TO DO SO WILL RELEASE THE ARCHITECT/ENGINEER OF ALL RESPONSIBILITY. ANY CHANGES FROM THESE DOCUMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR. THESE DRAWINGS ARE NOT TO BE SCALED. IF INSUFFICIENT INFORMATION EXISTS, CONTACT THE ARCHITECT/ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL BRACE ENTIRE STRUCTURE AS REQUIRED DURING DEMOLITION AND CONSTRUCTION TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE AS DESIGNED

#### **FOUNDATIONS**

- PER CLIENT'S REQUEST, THE FOUNDATION DESIGN AND GENERAL FOUNDATION NOTES ARE BASED ON THE ASSUMPTION OF FAVORABLE SOIL CONDITIONS. THE CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEER TO VERIFY DESIGN ASSUMPTIONS PRIOR TO FOUNDATION INSTALLATION. THE COST FOR THE GEOTECHNICAL ENGINEER SHALL BE LISTED AS A SEPARATE ITEM ON THE CONTRACTOR'S BID. THE CONTRACTOR SHALL SUBMIT COPIES OF THE GEOTECHNICAL ENGINEER'S REPORT TO SCHAEFER.
- A. ALL FOOTINGS SHALL BEAR ON LEVEL (WITHIN 1 IN 12) UNDISTURBED SOIL OR APPROVED ENGINEERED FILL. FOUNDATIONS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING
- 2. FOUNDATION ELEVATIONS SHOWN ARE FOR BIDDING PURPOSES AND MAY VARY TO SUIT SUB-SURFACE SOIL CONDITION. ELEVATION AND BEARING STRATA SHALL BE APPROVED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL AND FOUNDATION CONCRETE.
- ALL FOOTINGS SHALL BE CONTINUOUS. SHALLOW FOOTINGS AT CRAWL SPACES AND OTHER STEPPED FOOTINGS SHALL STEP DOWN TO THE ELEVATION OF BASEMENT FOOTINGS AT A RATIO OF 2 FEET VERTICAL TO 4 FEET HORIZONTAL.
- CONTRACTOR SHALL CONTACT UTILITY COMPANIES FOR LOCATING UNDERGROUND SERVICES AND IS RESPONSIBLE FOR THEIR PROTECTION AND SUPPORT.
- BACKFILL ALONG EXTERIOR FACE OF ALL PERIMETER FOOTINGS, AND ALONG EXTERIOR RETAINING TYPE WALLS SHALL BE A WELL GRADED GRANULAR MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY UP TO WITHIN 24 INCHES OF THE FINISHED GRADE. TOP 24" OF BACKFILL SHALL BE COMPACTED CLAYEY MATERIAL. AT THE BOTTOM OF THE GRANULAR MATERIAL, PLACE A 4" DIAMETER SCHD. 35 PVC (MIN.) PERFORATED FOUNDATION DRAIN PIPE WITH POSITIVE DRAINAGE TO SUMP OR TO DAYLIGHT. AT EXTERIOR RETAINING WALLS, 4" DIAMETER WEEP HOLES AT 8'-0" ON CENTER MAXIMUM MAY BE INSTALLED IN LIEU OF PERFORATED FOUNDATION DRAIN. PROVIDE CLAYEY BACKFILL FROM BOTTOM OF EXCAVATION UP TO BOTTOM OF WEEPHOLES OR DRAIN PIPE.
- 6. APPLIED TECHNOLOGIES "HYDRA-GUARD" WATERPROOFING SYSTEM (OR RUB-R-WALL WATERPROOFING MEMBRANE SYSTEM) PLUS PROTECTION BOARD SHALL BE APPLIED ON ALL BASEMENT FOUNDATION WALLS AND FOOTINGS BELOW GRADE.
- 7. CRAWL SPACES SHALL HAVE 6" OF PEA GRAVEL INSTALLED OVER 6 MIL VAPOR BARRIER
- ALL CONNECTION HARDWARE SPECIFIED ON THE STRUCTURAL DRAWINGS SHALL BE MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, SHALL BE FASTENED AS SPECIFIED IN THE SIMPSON PRODUCT AND INSTRUCTION MANUAL, AND ARE BASED ON THEIR CATALOG PUBLISHED CAPACITIES. ALL CONNECTORS SHALL BE INSTALLED USING THE MAXIMUM NAILING SPECIFIED AND PROPER NAIL SIZE UNLESS NOTED OTHERWISE.
- SIMPSON CONNECTORS USED IN ALL APPLICATIONS WITH ACQ-C, ACQ-D, CBA-A, OR CA-B TREATED LUMBER SHALL BE ZMAX (G185) OR HOT DIPPED GALVANIZED. G60 AND G90 COATED PRODUCTS ARE NOT ALLOWED FOR APPLICATIONS WITH TREATED LUMBER. G90 CAN BE USED W/ BORATE TREATED | UMBER IN INTERIOR-DRY APPI ICATIONS ONLY USE GAI VANIZED FASTENERS WITH ZMAX AND HOT DIP GALVANIZED CONNECTORS. AT OWNER'S OPTION, STAINLESS STEEL TYPE 304 OR TYPE 316 WITH STAINLESS STEEL FASTENERS CAN BE USED TO INCREASE LIFE EXPECTANCY OF THE CONNECTOR. STAINLESS STEEL CONNECTORS SHOULD BE USED FOR LUMBER WITH CHEMICAL RETENTION LEVELS GREATER THAN 0.40 PCF FOR ACQ, 0.41 PCF FOR CBA-A, OR 0.21 PCF FOR CA-B.
- FOR WOOD ROOF RAFTERS AND, INSTALL ONE SIMPSON H2.5T HURRICANE TIE AT EACH MEMBER AT EACH BEARING LOCATION IN ADDITION TO THE TYPICAL NAILING REQUIREMENT IN THE "FASTENING SCHEDULE".
- 8. BRIDGING IN ALL FLOOR AND CEILING JOISTS, SHALL BE 1"X3" CROSS BRIDGING (DOUBLE NAILED) AT 8'-0" ON CENTER MAXIMUM. STEEL CROSS BRIDGING IS AN ACCEPTABLE ALTERNATE.
- 9. AT FIRST FLOOR JOISTS THAT ARE PARALLEL TO THE BASEMENT FOUNDATION WALL, PROVIDE FULL DEPTH SOLID BLOCKING AT ANCHOR BOLT SPACING BETWEEN THE RIM JOIST AND THE FIRST (2) INTERIOR JOIST SPACES. NAIL SHEATHING TO EACH BLOCK WITH FOUR 10d NAILS.
- 10. WALL STUDS SHALL LINE UP WITH FLOOR JOISTS OF FLOORS ABOVE AND BELOW.
- 11. PROVIDE DOUBLE RIM JOIST WHERE FRAMING RUNS PARALLEL TO FOUNDATION OR STUD WALL.
- 12. PROVIDE A STUD AT ALL TOP PLATE SPLICE LOCATIONS.
- b) 10d = 0.148" DIA, 3" LG. 13. FOR BUILT UP FREE STANDING COLUMNS, USE THE FOLLOWING NAILING PATTERNS: (2) 2X4-10d c) 16d = 0.162" DIA, 3 ½" LG. NAILS AT 6" O.C. STAGGERED FRONT TO BACK, SET NAILS 1" FROM EDGE; (3) 2X4-30d NAILS AT 8" O.C. STAGGERED FRONT TO BACK, SET NAILS 1 1/2" FROM EDGE; (3) 2X6- TWO ROWS OF 30d NAILS PNEUMATIC GUN NAILS SHALL MEET THE DIAMETER AND LENGTH AS SHOWN ABOVE AT 8" O.C. STAGGERED SIDE TO SIDE AND FRONT TO BACK, SET NAILS 1 1/2" FROM EDGE. REGARDLESS OF THE NAIL SIZE INDICATED BY THE MANUFACTURER.
  - 14. NOTCHES IN EXTERIOR WALL OR INTERIOR BEARING WALL STUDS ARE NOT TO EXCEED ONE-FOURTH OF THE STUD WIDTH, AND NO HOLES ARE TO BE BORED GREATER THAN 40% OF THE STUD WIDTH OR WITHIN 5/8" OF STUD EDGE.
  - 15. NOTCHES IN FLOOR JOISTS AND ROOF RAFTERS SHALL NOT BE LOCATED IN THE MIDDLE ONE-THIRD OF THE SPAN. DEPTH OF NOTCHES IN THE TOP OR BOTTOM OF THE MEMBER ARE NOT TO EXCEED ONE-SIXTH OF THE MEMBER DEPTH, AND LENGTH SHALL NOT EXCEED ONE-THIRD OF MEMBER DEPTH. HOLES SHALL NOT BE BORED LARGER THAN ONE-THIRD OF THE MEMBER DEPTH, OR WITHIN TWO INCHES OF THE TOP OR BOTTOM OF THE MEMBER, OR WITHIN TWO FEET OF BEARING. NO HOLES OR NOTCHES ARE ALLOWED IN BEAMS UNLESS APPROVED BY
  - 16. WHERE CONCENTRATED LOADS FROM BEAMS, GIRDER TRUSSES, ETC. BEAR ON STUD WALLS, PROVIDE THE NUMBER OF STUDS NECESSARY TO SUPPORT THE FULL WIDTH OF THE BEARING MEMBER, UNLESS NOTED OTHERWISE. THE REQUIRED NUMBER OF SUPPORTING STUDS SHALL CONTINUE FOR THE FULL HEIGHT OF WALL BELOW THE CONCENTRATED LOAD, WITH

8. FINISHED GRADE SHALL SLOPE 6" IN THE FIRST 10' MINIMUM AWAY FROM THE PERIMETER FOUNDATION.

9. ALTERNATE BID, BACKHOE DUG PIERS

IN THE AREA, MANY OF THE CLAYEY SOILS ARE MOISTURE SENSITIVE, AND THEY SHRINK WHEN DEHYDRATED AND SWELL WHEN REHYDRATED. THE DRYING OF SOILS HAS CAUSED MANY BUILDINGS WITH SHALLOW FOUNDATIONS TO SETTLE DURING DRY SUMMER MONTHS, WHICH HAS CAUSED CRACKING OF FOUNDATIONS, BRICK, AND INTERIOR FINISHES. THE STANDARD REPAIR FOR THIS SITUATION IS TO SUPPORT THE FOUNDATIONS ON DEEP UNDERPINNING PIERS. TO HELP CONTROL VERTICAL SETTLEMENT DUE TO DRYING SHRINKAGE OF SOILS, WE RECOMMEND THAT BACKHOE DUG PIERS BE CAST INTEGRALLY WITH SHALLOW FOOTINGS DURING THE INITIAL CONSTRUCTION PHASE. THE PIERS SHOULD BE APPROXIMATELY 3'-0" x 2'-0" AND EXTEND A MINIMUM OF 6 FEET BELOW GRADE OR TO THE DEPTH OF THE BASEMENT FOOTINGS. SPACE THE PIERS APPROXIMATELY 10' ON CENTERS OR AS SHOWN ON THE PLAN. LIST THE COST FOR THE BACKHOE DUG PIERS AS A SEPARATE ITEM ON THE CONTRACTOR'S BID. IN CIRCUMSTANCES WHERE THE OWNER IS COMFORTABLE WITH SOIL CONDITIONS AT THE SITE AND CHOOSES NOT TO INSTALL BACKHOE DUG PIERS. THE OWNER ASSUMES THE RESPONSIBILITY OF ALL RISKS DUE TO THE MOISTURE SENSITIVE SOILS ON THE SITE. IN THIS CASE, WE RECOMMEND CONTACTING A GEOTECHNICAL ENGINEER TO INVESTIGATE THE PRESENCE OF MOISTURE SENSITIVE SOILS AT THE SITE.

- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-10, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW, AND THE REQUIREMENTS FOR RESIDENTIAL CONCRETE CONSTRUCTION ACI 332-08.
- MATERIALS:
- A. CONCRETE FOR EXTERIOR FLAT WORK, WALKS, GARAGE SLABS, ETC:
- MAXIMUM WATER / CEMENTITIOUS RATIO = 0.45 iii. NORMAL WEIGHT AGGREGATE
- iv. 5% TO 7% ENTRAINED AIR
- v. LIMIT POZZOLAN CONTENT PER ACI 301-10 TABLE 4.2.2.9.
- B. CONCRETE FOR FOOTINGS:
- fc = 3000 PSI.
- ii. NORMAL WEIGHT AGGREGATE.
- C. REINFORCING STEEL: ASTM A615 60 KSI YIELD DEFORMED BARS AND ASTM A185 WELDED WIRE REINFORCEMENT (SHEETS ONLY).
- D. ADMIXTURES: ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.
- 3. IF CONCRETE ARRIVES AT THE SITE WITH A SLUMP BELOW THE SPECIFIED SLUMP AND IS UNSUITABLE FOR PLACING AT THAT SLUMP, THE SLUMP MAY BE ADJUSTED ONCE ONLY BY ADDING WATER UP TO THE AMOUNT ALLOWED IN THE ACCEPTED MIXTURE PROPORTIONS. ADDITION OF WATER SHALL BE IN ACCORDANCE WITH ASTM C94. DO NOT EXCEED THE SPECIFIED WATER-CEMENTITIOUS MATERIAL RATIO OR SLUMP IN THE APPROVED MIX DESIGN. DO NOT ADD WATER TO CONCRETE DELIVERED IN EQUIPMENT NOT ACCEPTABLE FOR MIXING.

CONTINUOUS BLOCKING THRU FLOOR FRAMING AT EACH FLOOR LEVEL, DOWN TO SOLID

17. MINIMUM BEARING STUD & FULL HEIGHT STUD REQUIREMENTS FOR SUPPORT OF HEADERS IN

A. HEADER SPAN 6'-0" OR LESS: MINIMUM (1) 2x BEARING STUD NAILED TO (1) FULL HEIGHT

B. HEADER SPAN GREATER THAN 6'-0": MINIMUM (2) 2x BEARING STUDS NAILED TO (1) FULL

18. ALL MULTIPLE HEADERS AND BEAMS WITH DEPTH LESS THAN 14 INCHES SHALL BE FASTENED

TOGETHER WITH MINIMUM (3) ROWS OF 10d COMMON NAILS AT 12" O.C., STAGGERED ON

20. SEAL ALL FLOOR SHEATHING WITH A WATER SEALER IMMEDIATELY AFTER FLOOR SHEATHING

22. ALL NAILS AND FASTENERS WITH EXTERIOR EXPOSURE OR IN CONTACT WITH TREATED LUMBER

SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL. DO NOT MIX GALVANIZED AND

BEARING ON FOUNDATION WALL SILL PLATE OR INTERIOR STEEL OR WOOD BEAM.

HEIGHT STUD WITH 10d NAILS AT 24" O.C., UNLESS OTHERWISE.

19. SEAL EDGE OF ALL CUT FLOOR SHEATHING WITH PAINT PRIMER.

HAS BEEN INSTALLED AND PRIOR TO EXPOSURE OF RAIN.

21. SHEATH ALL EXTERIOR WALLS WITH APA RATED WALL SHEATHING.

EXTERIOR WALLS AND INTERIOR BEARING WALLS:

STUD WITH 10d NAILS AT 24" O.C.

OPPOSITE SIDES.

STAINLESS STEEL PRODUCTS.

- 4. WHEN THE AIR TEMPERATURE IS LESS THAN 40° F, THE TEMPERATURE OF THE CONCRETE SHALL BE MAINTAINED BETWEEN 50° AND 70°F FOR 7 DAYS.
- 5. DURING HOT WEATHER, WHEN NECESSARY, PROVIDE FOR PROTECTIVE MEASURES IN ADVANCE
- 6. CONTRACTION JOINTS IN SLABS-ON-GRADE SHALL BE HAND TROWELED OR SAW CUT WITHIN 6 HOURS OF PLACING CONCRETE OR WHEN CONCRETE IS STRONG ENOUGH TO WITHSTAND **CUTTING WITHOUT RAVELING AT THE EDGES.**
- 7. AT SILL PLATES PROVIDE 1/2" DIAMETER HOT DIPPED GALVANIZED ANCHOR RODS AT 32" O.C. MAXIMUM AND WITHIN 12" OF CORNERS, UNLESS NOTED OTHERWISE ON DRAWINGS. EMBED ANCHOR BOLTS 7 INCHES IN CAST CONCRETE WALLS AND 13 INCHES IN GROUTED CONCRETE MASONRY CELLS. IN ADDITION, PROVIDE SIMPSON FWANZ ANGLES @ 32" O.C. MAXIMUM, AND WITHIN 6" OF EACH ANCHOR BOLT LOCATION. INSTALL SIMPSON FWANZ ANGLES PRIOR TO
- 8. THE NATIONAL ELECTRICAL CODE REQUIRES THAT THE BUILDING ELECTRICAL SYSTEM SHALL BE GROUNDED TO REINFORCING STEEL IN THE CONCRETE FOOTING. THE WORK ASSOCIATED WITH THIS REQUIREMENT AND THE METHOD USED SHALL BE COORDINATED BY THE CONTRACTOR. (N.E.C. 250.50)

- 1. CONCRETE BLOCK AND CLAY BRICK MASONRY WORK SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATION FOR MASONRY STRUCTURES (TMS 602 - LATEST EDITION)".
- A. CONCRETE MASONRY UNITS: ASTM C90 TYPE I, NORMAL WEIGHT AGGREGATE PER ASTM
- B. MORTAR: ASTM C270 BELOW GRADE: TYPE S MASONRY CEMENT MORTAR.
- C. GROUT: ASTM C476. SLUMP 8" TO 11". MINIMUM COMPRESSIVE STRENGTH = 2000 PSI AT 28
- D. REINFORCING STEEL: ASTM A615, ASTM A706, OR ASTM A996, 60 KSI YIELD.

ALL OTHER MASONRY UNLESS NOTED OTHERWISE: TYPE N.

- E. PROVIDE 9 GAGE GALVANIZED TRUSS TYPE JOINT REINFORCING AT 16" CENTERS VERTICALLY FOR CONCRETE MASONRY. USE LADDER TYPE JOINT REINFORCING FOR BRICK AND CONCRETE BLOCK BACKUP.
- 3. RUNNING BOND PATTERN SHALL BE USED FOR ALL MASONRY WORK UNLESS OTHERWISE

1. MATERIALS:

2 x 8 AND LARGER: NO. 1 GRADE OR BETTER SOUTHERN PINE KILN DRIED, UNO. ii. 2 x 4 AND 2 x 6: STUD GRADE OR BETTER SPRUCE PINE FIR KILN DRIED

4

0

 $\mathbf{\Omega}$ 

Columbia

2

LATUS STUDIC

94 CHATHAM RD.

COLUMBUS, OH 43214

Project Status Issue Date

PROJECT NUMBER: Project Number

STRUCTURAL PLANS & NOTES

DRAWN BY: Author CHECKED: Checker