



CHARLOTTE HISTORIC DISTRICT COMMISSION

CERTIFICATE OF APPROPRIATENESS

CERTIFICATE NUMBER: 2017-00713

DATE: March 23, 2018

ADDRESS OF PROPERTY: 400 East Worthington Avenue TAX PARCEL NUMBER: 12105718

HISTORIC DISTRICT: Dilworth

OWNER(S): Kevin Cella

DETAILS OF APPROVED PROJECT: The project is a rear deck addition with a roof, handrails and stairs. The deck roof ties into the rear gable below the eave. Primary and trim material is wood. Deck footprint is 14' x 23' including the stair. Roof trim and eave dimensions will match existing as noted on the elevations. The existing deck and stairs will be removed.

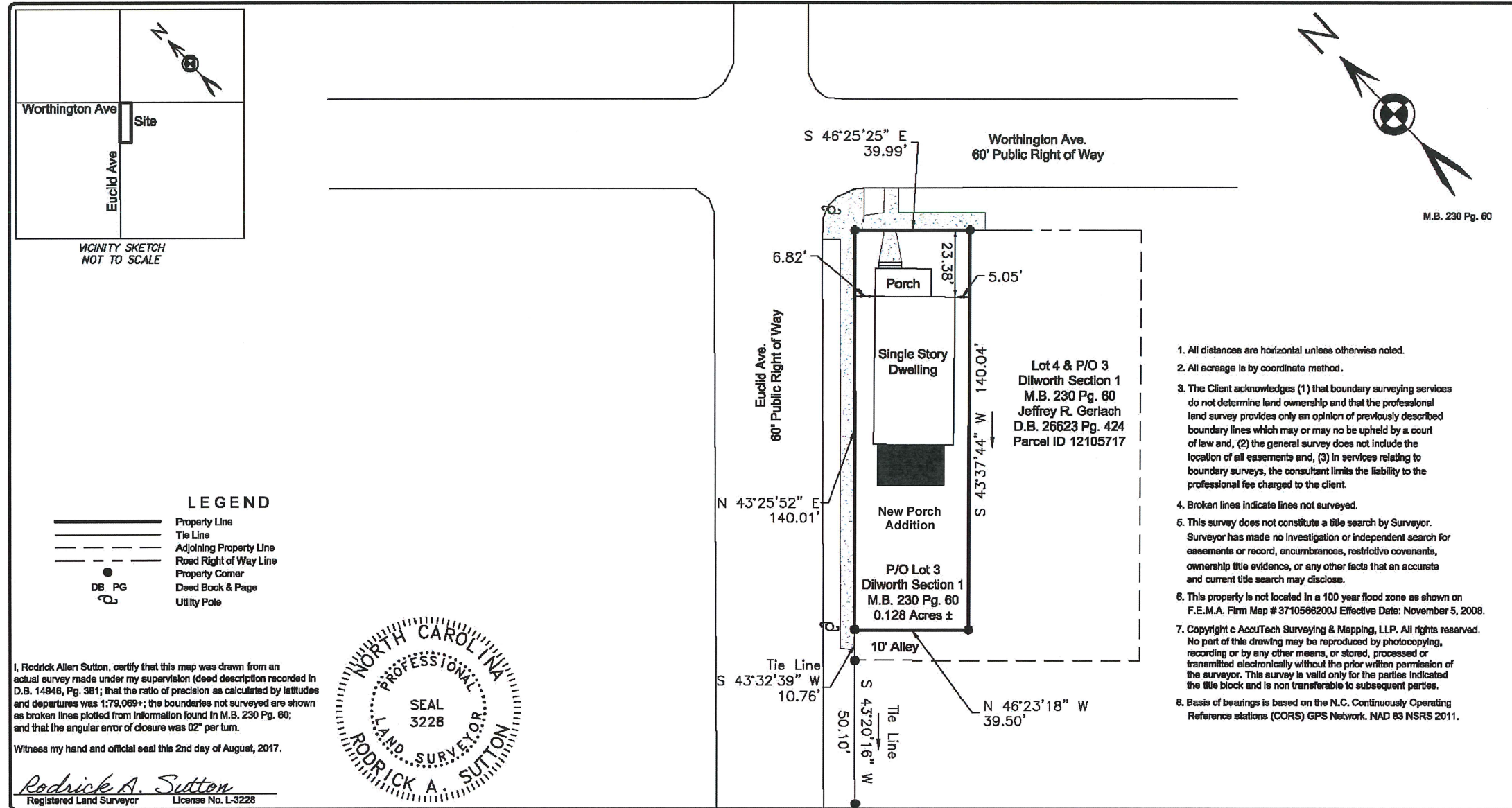
This project was approved by the Historic District Commission on March 14, 2018.

- This Certificate of Appropriateness (COA) indicates that this project proposal has been determined to comply with the standards and policies of the Charlotte Historic District Commission.
- Display the blue COA placard in a visible location along with any required permits.
- No other approvals are to be inferred.
- No demolition other than that specifically indicated on any attached plans is authorized under this approval.
- All work must be completed in accordance with all other applicable state and local codes.
- Any changes from or additions or deletions to the plans referenced herein will void this Certificate, and a new application must be filed with the Historic District Commission.

This Certificate is valid for a period of twelve (12) months from the date of issuance. Failure to obtain a building permit in that time will be considered as a failure to comply with the Certificate and the Certificate will become invalid. If a building permit is not required, then the approved work must be completed within twelve (12) months of the date of issuance of this Certificate. In either situation, the Certificate can be renewed for an additional twelve (12) months by Historic District Commission staff by written request within the first twelve (12) months from the date of issuance.

Chairman

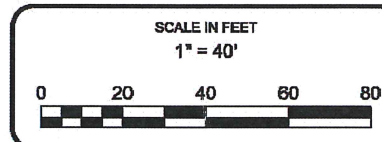
Staff



PROJECT MANAGER CAB	DRAWING SCALE 1"=40'
DRAWN BY CAB	SURVEY DATE 7/28/17
APPROVED BY RAS	MAP DATE 8/2/17
PROJECT NUMBER 17228	

AccuTech Surveying & Mapping, LLP
546 Newell Street NW
Concord, NC 28025
(704) 784-3286
Firm License No. : F-0759

SURVEYED BY ACS
INSTRUMENT TOPCON
COGO FILE 17228



Boundary & Location Survey For:
Robert Cella
400 E Worthington Ave.
Charlotte, NC 28203
Dilworth Township Charlotte, NC

GROGAN
engineering

GROGAN ENGINEERING, PLLC
3102 Kinder Oak Drive
Indian Trail, North Carolina
28079
919.407.9918
www.groganengineering.com

THESE DOCUMENTS ARE INSTRUMENTS OF
SERVICE AND AS SUCH REMAIN THE PROPERTY
OF THE ENGINEER. PUBLISH OR USE THEM
ONLY WITH THE ENGINEER'S WRITTEN
APPROVAL.

Cella Project
400 E. Worthington Ave.
Charlotte, NC 28203

Site Layout

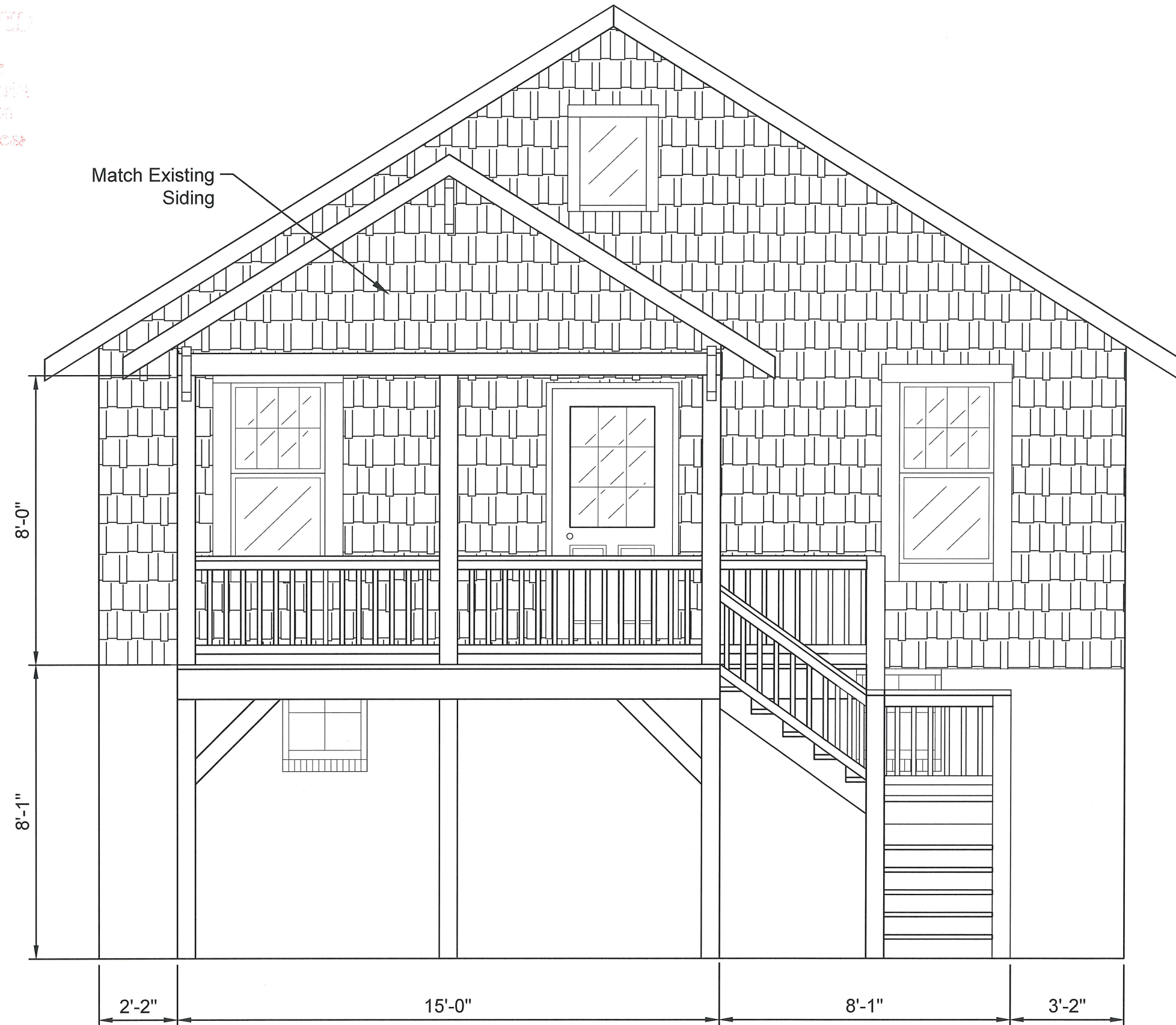
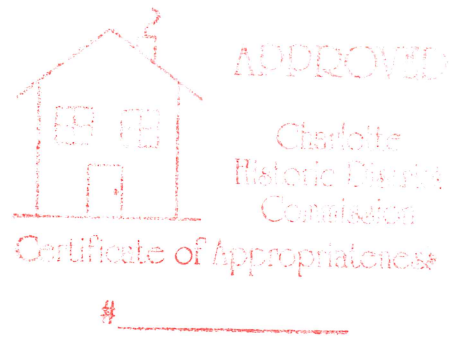
Revisions
No. Date Item

Drawn By: NCG	Date: 03-01-18
Checked: NCG	Project No.: 18-014

Construction Drawings

Sheet

A0



Rear Elevation

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

GROGAN
engineering

GROGAN ENGINEERING, PLLC
3102 Kinder Oak Drive
Indian Trail, North Carolina
28079
919.407.9918
www.groganengineering.com

THESE DOCUMENTS ARE INSTRUMENTS OF
SERVICE AND AS SUCH REMAIN THE PROPERTY
OF THE ENGINEER. PUBLISH OR USE THEM
ONLY WITH THE ENGINEER'S WRITTEN
APPROVAL.

Cella Project
400 E. Worthington Ave.
Charlotte, NC 28203

Rear Elevation

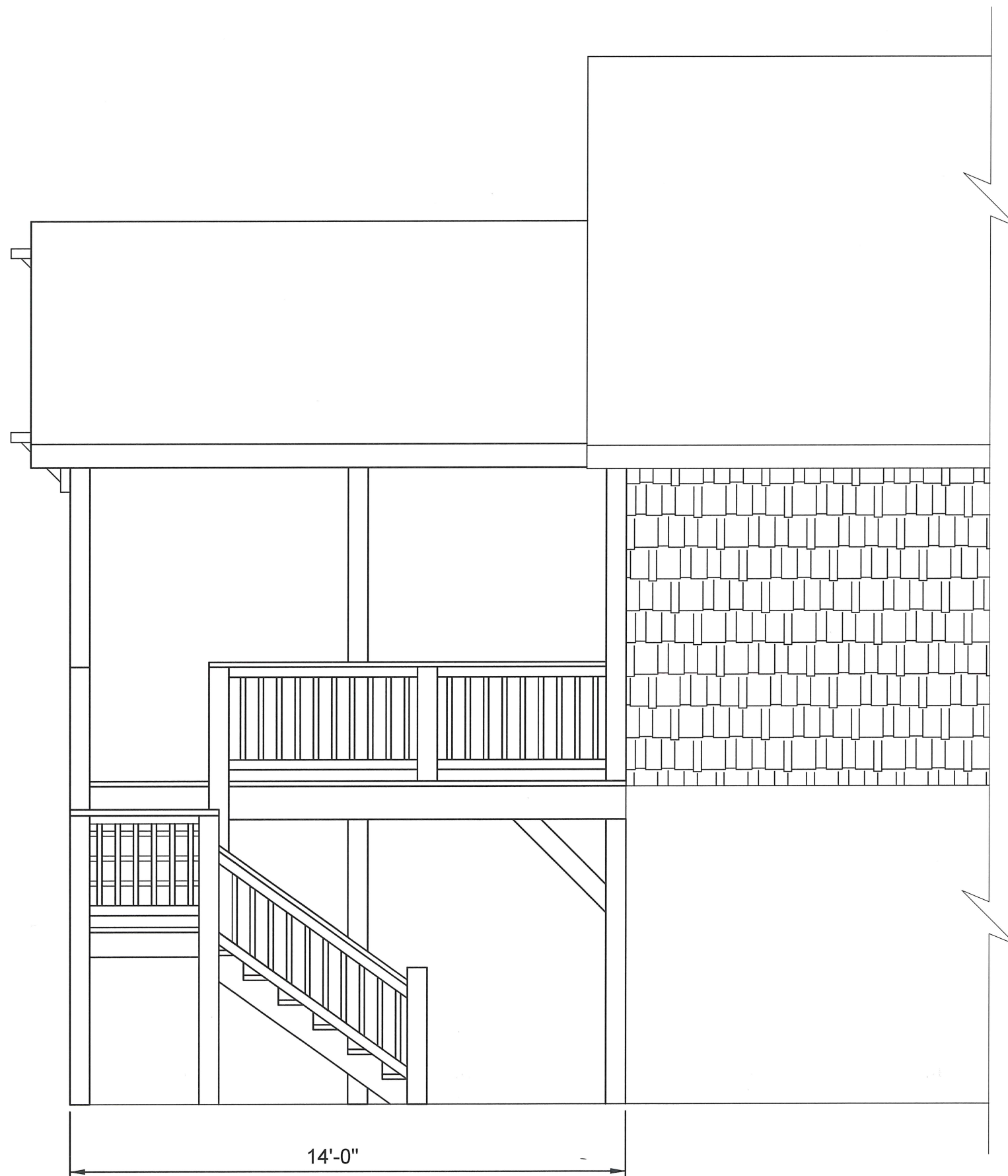
Revisions
No. Date Item

Drawn By: NCG Date: 03-01-18
Checked: NCG Project No.: 18-014

Construction Drawings

Sheet

A2



LEFT

Rear Elevation

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

GROGAN
engineering

GROGAN ENGINEERING, PLLC
3102 Kinder Oak Drive
Indian Trail, North Carolina
28079
919.407.9918
www.groganengineering.com

THESE DOCUMENTS ARE INSTRUMENTS OF
SERVICE AND AS SUCH REMAIN THE PROPERTY
OF THE ENGINEER. PUBLISH OR USE THEM
ONLY WITH THE ENGINEER'S WRITTEN
APPROVAL.

Cella Project
400 E. Worthington Ave.
Charlotte, NC 28203

Right Elevation

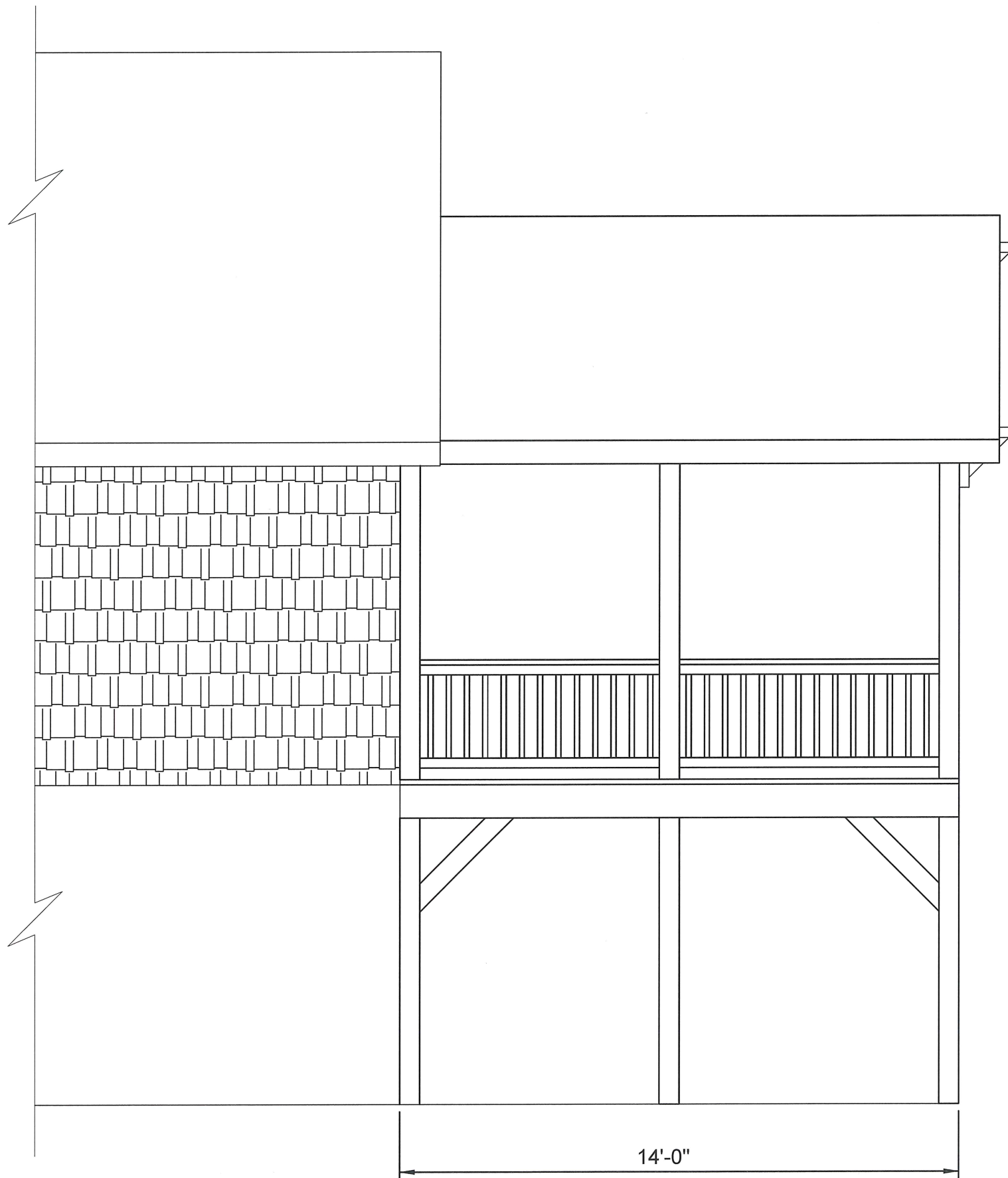
Revisions
No. Date Item

Drawn By: NCG
Checked: NCG
Date: 03-01-18
Project No.: 18-014

Construction Drawings

Sheet

A4



RIGHT

Rear Elevation

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

GROGAN
engineering

GROGAN ENGINEERING, PLLC
3102 Kinder Oak Drive
Indian Trail, North Carolina
28079
919.407.9918
www.groganengineering.com

THESE DOCUMENTS ARE INSTRUMENTS OF
SERVICE AND AS SUCH REMAIN THE PROPERTY
OF THE ENGINEER. PUBLISH OR USE THEM
ONLY WITH THE ENGINEER'S WRITTEN
APPROVAL.

Cella Project
400 E. Worthington Ave.
Charlotte, NC 28203

Left Elevation

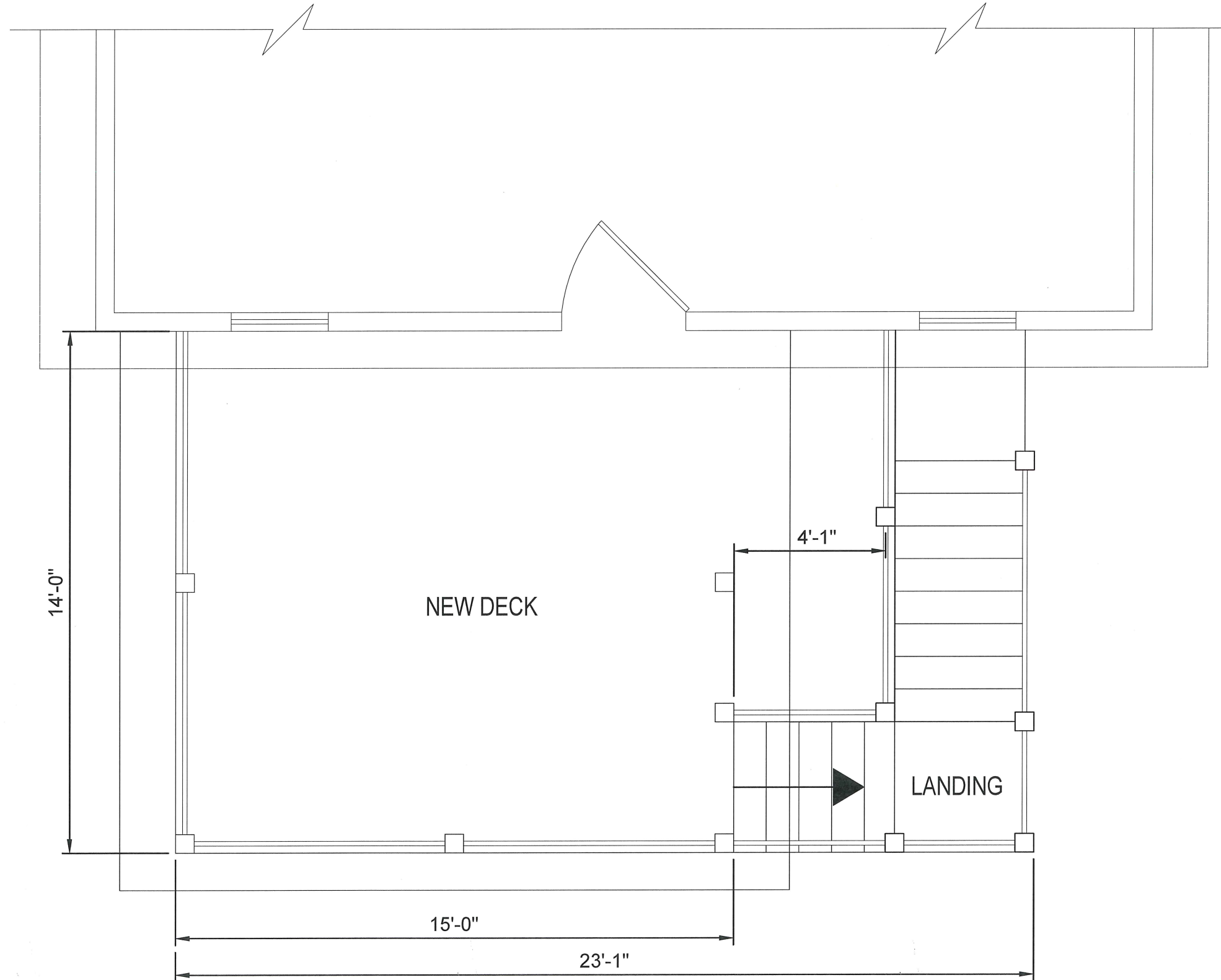
Revisions
No. Date Item

Drawn By: NCG Date: 03-01-18
Checked: NCG Project No.: 18-014

Construction Drawings

Sheet

A3



Rear Elevation **PLAN**
Scale: 1/4 " = 1'-0"



GROGAN ENGINEERING, PLLC
3102 Kinder Oak Drive
Indian Trail, North Carolina
28079
919.407.9918
www.groganengineering.com

THESE DOCUMENTS ARE INSTRUMENTS OF
SERVICE AND AS SUCH REMAIN THE PROPERTY
OF THE ENGINEER. PUBLISH OR USE THEM
ONLY WITH THE ENGINEER'S WRITTEN
APPROVAL.

Cella Project
400 E. Worthington Ave.
Charlotte, NC 28203

Plan View

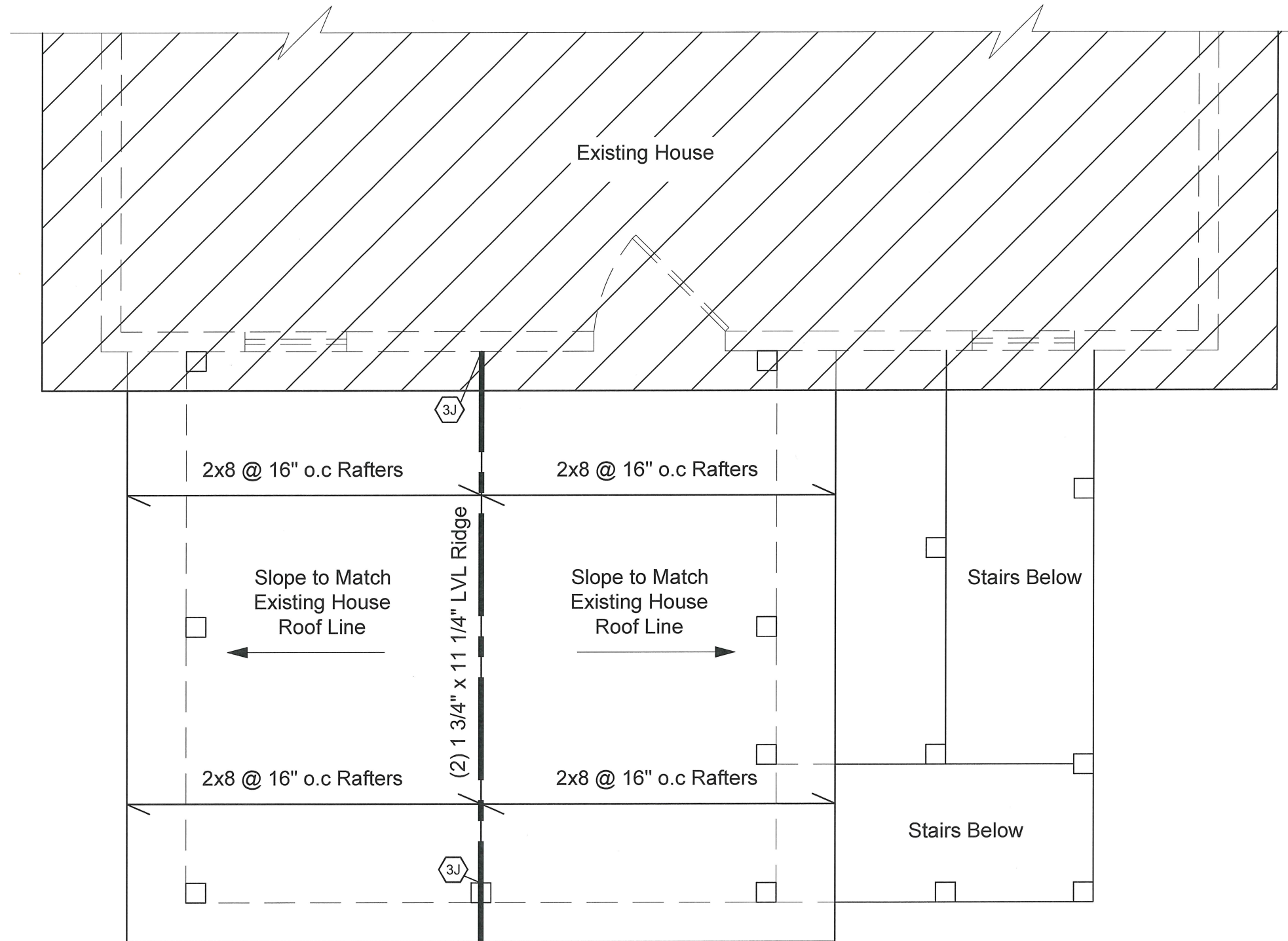
Revisions
No. Date Item

Drawn By: NCG
Checked: NCG
Date: 03-01-18
Project No.: 18-014

Construction Drawings

Sheet

A1



Roof Plan

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



GROGAN ENGINEERING, PLLC
3102 Kinder Oak Drive
Indian Trail, North Carolina
28079
919.407.9918
www.groganengineering.com

THESE DOCUMENTS ARE INSTRUMENTS OF
SERVICE AND AS SUCH REMAIN THE PROPERTY
OF THE ENGINEER. PUBLISH OR USE THEM
ONLY WITH THE ENGINEER'S WRITTEN
APPROVAL.

Company License No.
P-1297



STRUCTURAL ONLY

Cella Project
400 E. Worthington Ave.
Charlotte, NC 28203

Roof Plan

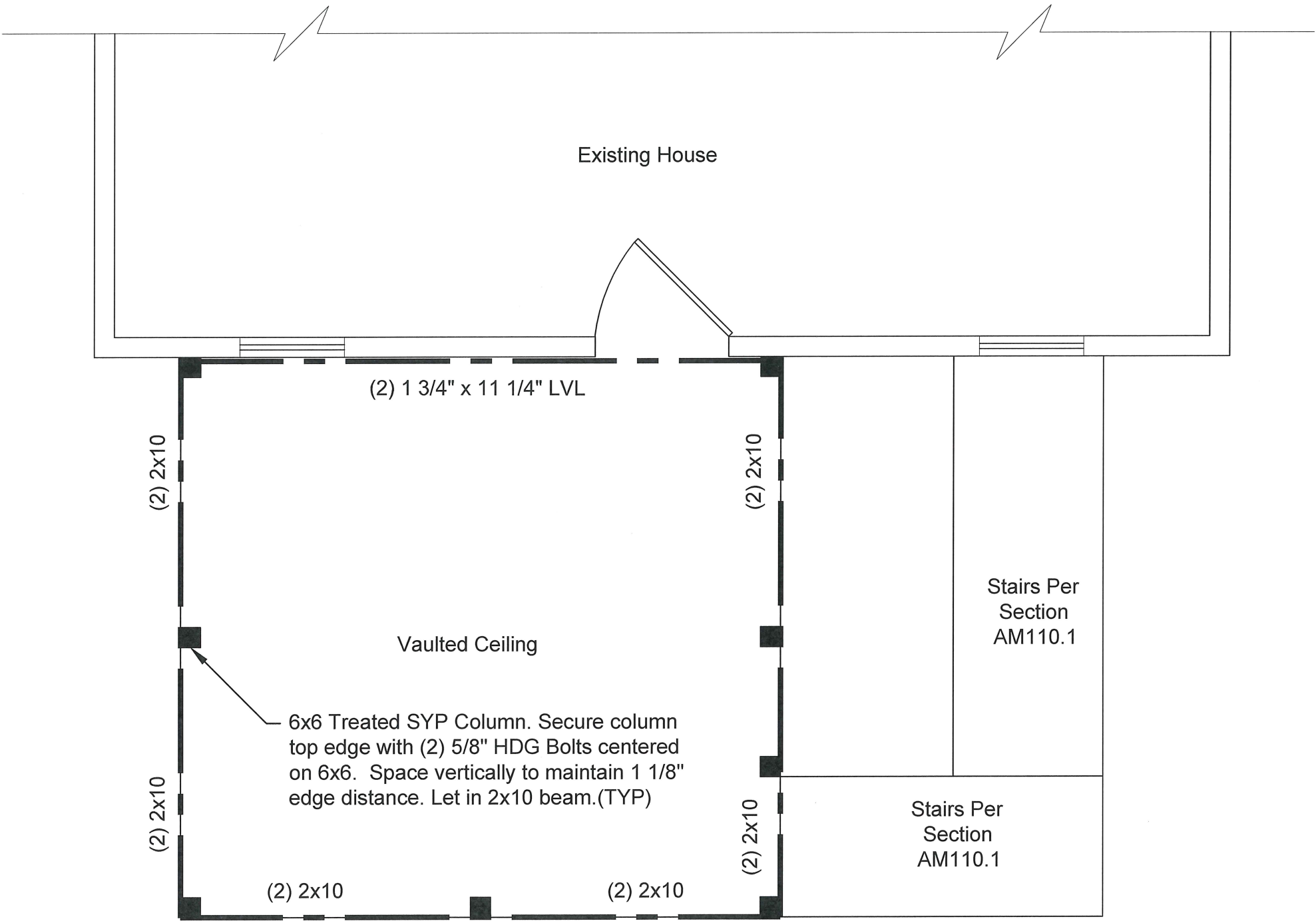
Revisions
No. Date Item

Drawn By: NCG Date: 03-01-18
Checked: NCG Project No.: 18-014

Construction Drawings

Sheet

S1



Floor Plan

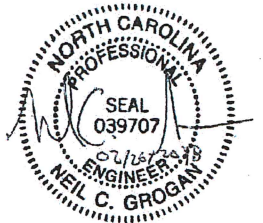
Scale: 1/4 " = 1'-0"



GROGAN ENGINEERING, PLLC
3102 Kinder Oak Drive
Indian Trail, North Carolina
28079
919.407.9918
www.groganengineering.com

THESE DOCUMENTS ARE INSTRUMENTS OF SERVICE AND AS SUCH REMAIN THE PROPERTY OF THE ENGINEER. PUBLISH OR USE THEM ONLY WITH THE ENGINEER'S WRITTEN APPROVAL.

Company License No.
P-1297



STRUCTURAL ONLY

Cella Project
400 E. Worthington Ave.
Charlotte, NC 28203

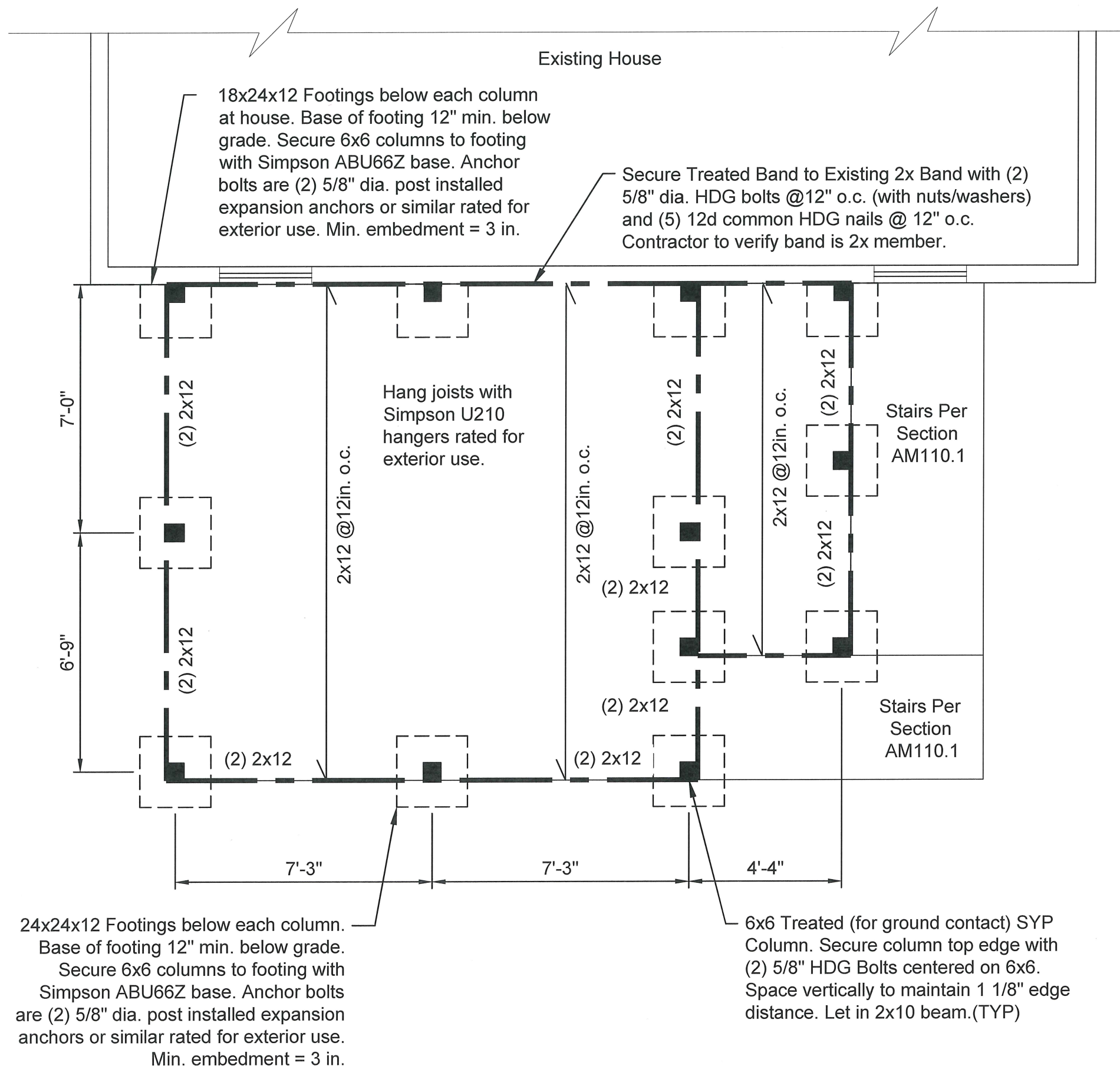
Floor Plan

Revisions		
No.	Date	Item

Drawn By: NCG	Date: 03-01-18
Checked: NCG	Project No.: 18-014

Construction Drawings

Sheet



Foundation Plan

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

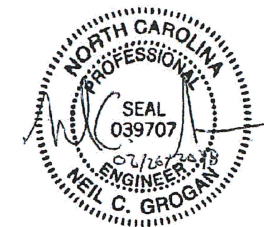
Lateral Bracing: Provide 4x4 knee braces at each outside corner column in accordance with Appendix M of the 2012 North Carolina Building Code.

GROGAN
engineering

GROGAN ENGINEERING, PLLC
3102 Kinder Oak Drive
Indian Trail, North Carolina
28079
919.407.9918
www.groganengineering.com

THESE DOCUMENTS ARE INSTRUMENTS OF
SERVICE AND AS SUCH REMAIN THE PROPERTY
OF THE ENGINEER. PUBLISH OR USE THEM
ONLY WITH THE ENGINEER'S WRITTEN
APPROVAL.

Company License No.
P-1297



STRUCTURAL ONLY

Cella Project
400 E. Worthington Ave.
Charlotte, NC 28203

Foundation Plan

Revisions
No. Date Item

Drawn By:
NCG
Checked:
NCG
Date:
03-01-18
Project No.:
18-014

Construction Drawings

Sheet

S3

BUILDING PLANNING

- ENGINEERS SEAL ONLY APPLIES TO STRUCTURAL SYSTEMS AND COMPONENTS INCLUDING ROOF SYSTEM (STRUCTURAL PORTION ONLY), FLOORS, WALLS, BEAMS AND HEADERS, COLUMNS, CANTILEVERS, OFFSET LOAD BEARING WALLS, PIER AND GIRDER SYSTEM, AND FOUNDATION. ROOF TRUSSES AND TRUSS COMPONENTS SHALL BE DESIGNED AND SEALED BY TRUSS SUPPLIER.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND FEASIBILITY PRIOR TO ORDERING MATERIALS AND CONSTRUCTION.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE 2012 NORTH CAROLINA RESIDENTIAL BUILDING CODE PLUS ALL LOCAL CODES AND REGULATIONS.
- ANY ITEMS OR DESIGN NOT SPECIFICALLY MENTIONED SHALL MEET OR EXCEED RESIDENTIAL BUILDING CODE REQUIREMENTS.
- VERIFY ALL LOCAL CODES, ENERGY TYPES, AND SITE CONDITIONS PRIOR TO CONSTRUCTION.

DESIGN LOADS

- DESIGN LOADS ARE ALL DEAD LOADS PLUS:

A. MAIN FLOOR LIVE LOADS	40PSF
B. ALL OTHER FLOORS	40PSF
C. BALCONIES	60PSF
D. DECKS	50PSF
E. SUSPENDED GARAGES	50PSF (2KIP POINT LOAD)

F. ATTIC FLOOR LIVE LOADING:

I. AREAS ACCESSIBLE BY PERMANENT STAIRS	30PSF
II. WITH STORAGE	20PSF
III. WITHOUT STORAGE	10PSF

G. ROOF LIVE LOAD
- 20PSF
- H. WIND LOAD
- 90MPH (3 SEC. GUST)
- I. SNOW LOAD
- 20PSF
- J. SEISMIC DESIGN CATEGORY C

GENERAL

- NOTES BELOW ARE INTENDED TO SERVE AS SPECIFICATIONS. SEE REFERENCED STANDARDS FOR REQUIREMENTS IN ADDITION TO THESE NOTES.
- CONTRACTOR SHALL TAKE ALL FIELD DIMENSIONS AND ELEVATIONS AS NECESSARY TO VERIFY THE EXISTING CONDITIONS SHOWN. THE RESPONSIBILITY OF ALL FIELD DIMENSIONS IS THE CONTRACTOR'S.
- COORDINATE LOCATION OF EXISTING UTILITIES, IF ANY, WITH PROPERTY OWNER.
- ALL SAFETY REGULATIONS TO BE FOLLOWED STRICTLY. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL IS CONTRACTOR'S RESPONSIBILITY.

WOOD

- DIMENSIONAL LUMBER: #2 GRADE OR BETTER.
- ALL WOOD EXPOSED TO ELEMENTS SHALL BE PRESSURE TREATED SOUTHERN YELLOW PINE (SYP) UNLESS OTHERWISE NOTED. ALL OTHER WOOD SHALL BE SPRUCE PINE FIR (SPF) WHERE AVAILABLE OR SYP UNLESS OTHERWISE NOTED.
- EXTERIOR SHEATHING: 7/16 IN OSB WITH SPAN RATING OF 24/16.
- LVL: Fb = 2900 PSI OR GREATER
- E = 2,000,000 PSI LVL BEAMS, 1,600,000 PSI PSL BEAMS
- FOR EXTERIOR APPLICATIONS USE WOLMANIZED "PARALLAM" MEMBERS OR TREATED DIMENSIONAL LUMBER.
- DESIGN, FABRICATION AND ERECTION: NDS FOR WOOD CONSTRUCTION.

STEEL

- STRUCTURAL STEEL:
 - ROLLED SECTIONS = ASTM A36 OR A992
 - HSS SECTIONS = ASTM A500-Gr. B
- STEEL REINFORCING BARS: ASTM A615 - GRADE 40 U.O.N.
- ALL REBAR SPLICES SHALL BE 24" MIN. UNLESS NOTED OTHERWISE.
- DESIGN, FABRICATION AND ERECTION: AISC SPECIFICATIONS FOR BUILDINGS.
- ALL STEEL SHALL BE SHOP PRIMED AND FIELD PRIMED WHERE WELDED. REMOVE ALL WELD SLAG AND GRIND AS REQUIRED FOR ACCEPTABLE APPEARANCE.

ROOF

- ROOF IS A GABLE UNLESS NOTED OTHERWISE. PITCH NOTED ON PLANS.
- FLAT NON-VAULTED CEILING UNLESS NOTED OTHERWISE.
- RAFTERS: 2X6 AT 16 IN. O.C. UNLESS NOTED OTHERWISE
- ROOF SHEATHING: 7/16 IN. OSB.
- SECURE SHEATHING WITH 8D NAILS, 6 IN. O.C. ON THE PERIMETERS OF EACH SHEET AND 12 IN. O.C. IN THE FIELD.
- SHEATHING IS UNBLOCKED IN THE FIELD AND BLOCKED AT EDGES.
- PROVIDE 2x6 COLLAR TIES @ 32" O.C. IN TOP THIRD OR TOP 3'-0" OF ATTIC SPACE IN ACCORDANCE WITH LOCAL BUILDING CODE.
- TRUSS SYSTEM SHALL BE DESIGNED AND ENGINEERED BY TRUSS MANUFACTURER AND COMPLETE INSTALLATION DETAILS SHALL BE PROVIDED.
- COORDINATE ACTUAL TRUSS DIMENSIONS WITH THE SELECTED TRUSS MANUFACTURER.
- INCORPORATE ALL POINT LOADS AND BEARING CONDITIONS IN TRUSS MANUFACTURER ENGINEERED DRAWINGS.

WALLS

- WALLS TO BE 2X4 @ 16 IN. O.C. CONSTRUCTION UNLESS NOTED OTHERWISE.
- WALL SHEATHING: 7/16 IN. 24/16 OSB.
- UNLESS NOTED OTHERWISE, ALL INTERIOR DOOR AND WALL OPENINGS IN LOAD BEARING WALLS SHALL HAVE (2) 2x10'S HEADERS WITH (2) STUDS AT EACH HEADER END (TYPICAL).
- UNLESS NOTED OTHERWISE, ALL EXTERIOR DOOR AND WINDOW OPENINGS SHALL HAVE (2) 2x10'S WITH 1/2" PLYWOOD PLATE LINTEL. USE (2) JACK STUDS AT ENDS UNLESS OTHERWISE NOTED. PROVIDE STEEL LINTEL ANGLES WITH 4" MIN. BEARING WHERE REQUIRED OVER EXTERIOR MASONRY WALL OPENINGS.
- LVL BEAMS MUST HAVE 3-2X4 JACK STUDS UNDER EACH END SUPPORT UNLESS NOTED OTHERWISE ON THE STRUCTURAL PLANS.
- MASONRY LINTELS:
 - FOR SPANS UP TO 6FT: USE 3 1/2"x3 1/2"x1/4" STEEL ANGLES.
 - FOR SPANS 6FT TO 9FT: USE 5"x3 1/2"x5/16" STEEL ANGLES.
 - TEMPORARILY SUPPORT STEEL ANGLE BEFORE MASONRY IS INSTALLED. SHORING MAY BE REMOVED 7 DAYS AFTER INSTALLATION.
- 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 JOISTS INSTALLED DIRECTLY BELOW THE WALL.
- LOAD BEARING PARTITIONS, JACKS, BEAMS AND COLUMN SUPPORTS MUST BE SOLIDLY BLOCKED THROUGH THE FLOOR AS THE JOISTS AND THE PLYWOOD MAY NOT BE ABLE TO CARRY 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 IN THE PLANS IS THE RESPONSIBILITY OF THE CONTRACTOR. EXACT BEAM LOCATIONS ARE NOT TO BE SCALED FROM THE PLANS.)
- ALL TWO-STORY ROOMS WITH FULL HEIGHT OPENINGS MUST BE BRACED TO RESIST PRESSURE RESULTING FROM 90 MPH (3 SEC GUST).
- HEADERS SHALL BE AS SHOWN ON PLANS OR MIN. (2) 2X8 IF NOT SHOWN.
- AT ALL STAIRS, EVERY STUD AT EACH STRINGER SHALL BE NAILED TO EACH STRINGER WITH A MINIMUM OF (2) 16D NAILS.
- WALL BRACING PER R602.10
 - 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 @ 6 IN O.C. ALONG EDGES AND 12 IN O.C. IN THE FIELD, TO MEET AND EXCEED THE INTENT OF THE 2012 NORTH CAROLINA RESIDENTIAL BUILDING CODE. WHERE BRACED WALL LINES REQUIRE ADDITIONAL REINFORCING, ENGINEERED WALL SECTIONS AND HOLD DOWNS HAVE BEEN PROVIDED.

FLOORS

- SHEATHING: 3/4 IN. T&G UNLESS NOTED OTHERWISE.
- SECURE SHEATHING WITH 8D NAILS, 6 IN. O.C. ON THE PERIMETERS OF EACH SHEET AND 12 IN. O.C. IN THE FIELD.
- SHEATHING IS UNBLOCKED IN THE FIELD AND BLOCKED AT EDGES.
- UNLESS NOTED OTHERWISE FLOOR FRAMING SHALL CONSIST OF 2X12 FRAMING.TYPICAL WALL, 2x4'S @ 16" O.C., UNLESS OTHERWISE DIMENSIONED.

FASTENER SCHEDULE

- ALL CONNECTION HARDWARE SHALL UTILIZE SIMPSON PRODUCTS OR EQUIVALENT UNLESS OTHERWISE NOTED.
- ANY CONNECTIONS OR FASTENERS NOT SPECIFICALLY ADDRESSED SHALL MEET REQUIREMENTS OF 2012 NC RESIDENTIAL BUILDING CODE.
- ALL EXTERIOR CONNECTION HARDWARE SHALL BE HOT DIPPED GALVANIZED (HDG) OR COATED FOR EXTERIOR USE.
- ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES, LOW HYDROGEN TYPE.
- BOLTS: ASTM A325 UNLESS NOTED OTHERWISE.
- ANCHORS:astm A36 UNLESS NOTED OTHERWISE.
- WASHERS: ASTM F844
- NAILING PATTERNS:
 - ALL FLOOR JOIST MUST BE TOE-NAILED TO THEIR SUPPORT GIRDERS WITH A MINIMUM OF (3) 8D NAILS AT EACH END FROM EACH SIDE. NO END NAILING THROUGH THE GIRDER OR BAND IS PERMITTED EXCEPT FOR TEMPORARY CONSTRUCTION PURPOSES.
 - IF DROPPED GIRDERS ARE USED, END LAP ALL JOISTS A MINIMUM OF 12" AND SIDE NAIL EACH WITH A MINIMUM OF (3) 16D NAILS AT EACH END OF EACH JOIST. LEDGER STRIPS SHALL BE NAILED WITH (3) 16D NAILS AT EACH JOIST END, WITH NAILS SPACED 3" APART.
 - NAIL MULTIPLE BUILT-UP GIRDERS WITH THREE ROWS OF 16D NAILS STAGGERED AT 32" O.C., 2" DOWN FROM TOP, 2" UP FROM 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.

FOOTINGS

- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 IN. UNO.
- CONCRETE SHALL NOTE BE PLACED IN TEMPERATURES BELOW 50 DEGREES FAHRENHEIT UNLESS HEAT TO BE PROVIDED DURING CURING FOR 2 DAYS.
- MINIMUM SOIL BEARING CAPACITY: 2000PSF UNLESS NOTED OTHERWISE OR AS DETERMINED BY STANDARD PENETROMETER TEST.
- ALL CONTINUOUS WALL FOOTINGS ARE 12" THICK X 24" WIDE. REINFORCING IN FOOTINGS SHALL BE (2) #4 BARS UNLESS NOTED OTHERWISE ON PLANS.
- FOOTINGS FOR 16"x16" PIERS ARE 24"x24"x12" UNLESS NOTED OTHERWISE. REINFORCING TO BE AS NOTED ON PLANS. SECURE 6X6 COLUMNS TO FOOTING WITH SIMPSON PB66 OR EQUIVALENT BASES UNLESS NOTED OTHERWISE.
- CHIMNEY FOOTING SIZES ARE SHOWN ON THE STRUCTURAL DRAWINGS. MASONRY OR ISOKERN STYLE CHIMNEY FOOTINGS MUST BE A MINIMUM OF 12" THICK WITH 12" PROJECTION ON ALL SIDES.

FOUNDATIONS

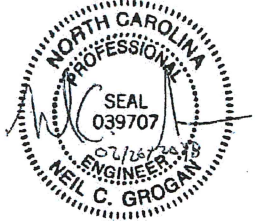
- ALL POINT LOADS FROM ROOF BRACES, JACK STUDS, AND BEAM SUPPORTS, CANNOT BEAR ON SHEATHING ALONE. BLOCKING EQUAL TO OR BETTER THAN THE SPECIFIED STUDS OR COLUMN PROVIDED FOR POINT LOAD SUPPORT MUST BE CARRIED THROUGH ALL CONSTRUCTION TO THE FOUNDATION.
- ALL INTERIOR PIERS ARE 16"x16" CMU UP TO A MAXIMUM HEIGHT OF 6'-4". ALL PIERS SHALL BE FILLED WITH TYPE S MORTAR. PIERS LARGER THAN 16"x16" ARE AS NOTED ON PLANS OR AS REQUIRED BY HEIGHT. PIERS SHALL HAVE CAP BLOCKS OF SOLID 8"x16" CMU MASONRY.
- CRAWL SPACE GIRDERS AND BAND AS NOTED ON PLANS. MAXIMUM CLEAR SPAN TO BE 4'-8" (6'-0" O.C. SPACING OF PIERS) UNLESS NOTED OTHERWISE.
- AT ALL GIRDERS WHERE THE JOIST CHANGE DIRECTION, INSTALL BRIDGING AT 6" O.C. FOR A MINIMUM OF (6) JOIST SPACINGS BEYOND ANY DIRECTION CHANGE.
- PROVIDE WOOD BLOCKING THRU-BOLTED TO STEEL BEAMS 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.
- ALL CRAWL SPACE FRAMING LUMBER SHALL BE SOUTHERN YELLOW PINE, GRADE NO. 2.
- AT ALL CRAWL SPACE VENT OPENINGS AND CRAWL SPACE ACCESS DOOR, PROVIDE 3 1/2"x3 1/2"x1/4" STEEL ANGLES. DO NOT LOCATE VENT OPENINGS BELOW STUD COLUMNS OR POINT LOADS.



GROGAN ENGINEERING, PLLC
3102 Kinder Oak Drive
Indian Trail, North Carolina
28079
919.407.9918
www.groganengineering.com

THESE DOCUMENTS ARE INSTRUMENTS OF SERVICE AND AS SUCH REMAIN THE PROPERTY OF THE ENGINEER. PUBLISH OR USE THEM ONLY WITH THE ENGINEER'S WRITTEN APPROVAL.

Company License No.
P-1297



STRUCTURAL ONLY

Cella Project
400 E. Worthington Ave.
Charlotte, NC 28203

General Notes

Revisions		
No.	Date	Item

Drawn By:	Date:
NCG	03-01-18
Checked:	Project No.:
NCG	18-014

Construction Drawings

Sheet

S0