GENERAL NOTES

The intent of these drawings is to provide a complete and finished job in all respects. Centrador is to make accurate field inspections of all aspects of the job, veryly all dimensions and side conditions point to fating way, and rollify the entryl all dimensions and side conditions point to fating way, and rollify the contrad documents. Additional information will be provided by the architect as requested by the contrador in specific areas, but any such provides that limit on way releve the contrador of specific areas, but any such provides that but not way releve the contrador of specific areas, but any such provides the building described in the contrador documents.

The contract documents consist of the following: a. "General Conditions of the Contract for Construction" AIA DocumentA201 1997 Edition

b. Drawings listed in the Sheet Index. c. Specifications, either in separate 8.5" x 11" booklet with headings as listed in the keynotes or as included herein.

3 Document Conflicts, Errors and Omissions

These documents are known to contain contain, errors and containers. Professionals undergoined content indices and the documentation of proposed worth two prepared these documents, and the documents of proposed worth two prepared these documents. These documents have been prepared in conformance with the destinateds of principle of this industry. Ferry effort has guarantee in make or implied that the documents are time of such errors or ormanisors. This shall not now perfecte the contractor of the responsibility of the contractor, responsibility to notify the architect in writing of any procreted error are contained in the proposed error and contained in the contractor of the responsibility to notify the architect in writing of any procreted error are missions in the contraction documents prior to commencement of construction.

The owner reserves the right to enter upon the site and into the building, and to occupy portions of the building prior to the date of substantial completion, provio same does not interfere with the work under the contract. Exercise of this right shall in no way be deemed to be acceptance by the owner of the work.

The owner reserves the right, without invalidating the contract, to order extra work or make changes by altering, adding to or deducting from the work, with the contract sum being adjusted accordingly. Any addition, deletion or change in scope of work shall be by written change order only.

All work, construction and materials shall comply with all provisions of the current edition of all Building, Zoning, Mechanical, Plumbing, Electrical, Accessibility and Fers Soliety Codes in delect and with an ident radies, regulators and ordinances and ordinances are in a second ordinances. The second ordinances are in the second ordinances and second ordinances are in the second ordinances and the second ordinance with the adorementioned codes, and to bring to the attention of the architect any discrepancies or conflicts between the dismission and the provisions of the code prior to construction.

9 Permits

a. The Owner shall pay for the plan check and building permit fees; contractor shall pay for all other permits and fees.
b. Obtain any necessary permit from the State of California Division of Industrial Safety prior to the issuance of grading permits or for trenches greater than 5 feet in depth into which a person is required to descend.

work and shall take full responsibility for any and all shoring, cribbing, scaffolding and any and all other temporary supporting devices required for the excavation of the temporary supporting devices required for the excavation of this work.

consider shall make necessary assignments with the governing power, places, described the second section of the section

Contractor shall be responsible for initiating, maintaining and supervising all safety and security precaution programs in connection with the work.

13 Existing Conditions

Contrador shall verify all conditions and measurements at the job site. Discrepancies in the drawing or between the dewiving and satual field conditions price to the execution of the work shall seem conventions or instructions. By-stamming a boll for the work that contrador verifies the he and appropriate sub-stamming a boll for the work the contrador verifies the he and appropriate sub-stamming a boll for the work the contrador verifies the he and appropriate sub-tered to the section of the presence, for macessite self-as under foror areas. Bits shall take into consistention of such conditions and limitation, and the section of the presence of the conscious and instation, documents, and bits submitted dails the control set including an inneressary to complicit the sort in every part shown, described or reasonably required or complicit the sort in every part shown, described or reasonably required or sort of the sort in every part shown, described or reasonably required or sort of the sort of sort of the sort of sort of the sort of sort of the sort of sort of the sort of sort of the sort of sort of the sort of sort of the sort of sort of the sort

14 Verification of Conditions

Prior to installation of any product, contractor shall inspect existing conditions to receive materials to be installed and arrange for correction of defects in the existing workmannine, material or conditions that may adversely affect work to be conditions as the prior of the

16 Materials and Workmanship

GENERAL NOTES

All materials and equipment furnished under this contract shall be new and free from faults and defects. Engage fully licensed and insured mechanics and specialists in their trade for first class workmanship throughout all visible areas of

17 Quality Control and Inspections

a. Materials to be furnished under the contract are subject to test and inspection for compliance with contract documents.

For compliance with contract documents.

Contract to the contract documents.

Contract or the contract documents.

Contract or half schedule, initiate and coordinate tests and inspections required contract shall schedule, initiate and coordinate tests and inspections required and contract shall arrange only for materials equilifications and conformance tests, concrete and massiony mix designs and other tests and respection to be prefuned at the platus, unless otherwise specific. Test

Compliance. The conner may request that materials be tested. If materials are contract to the platus of the contract test the contract t

found to be in compliance with the contract documents then the owner will pay for the tests, if the materials are not found in compliance, then the costs of tests shall be paid by the contractor or deducted from payments due to him. The contractor shall reinburse the Owner all or any part, as the owner may deem proper, of the test and inspections costs incurred by the Owner due to the following:

Retesting costs caused by failure of materials to pass initial tests.
 Covering of work before the required inspections or tests are performed.
 Additional inspections required for Contractor's correction of defective work

Ship desiring, samples, statistique colar, priject data, performance chairs, invanisoriem mursulus, forculture and other information and be autheritied to the architect and of conserve theorem and the enterprised. No protict of such who for such architecture of the conserve theorem and the conserve theorem and the conserve the supervised the submitted price of the constraint sheaf check, all hop desirings and other such data for quantity, size and dimensional conserved the submitted protection in the conserved that the conserved the submitted theorem and the conserved that the conserved the conserved that

No indistillations that he made without the Architect and Ower's entires submission. Any expense or substitution with ble made in Advance to entirely not delay to the project schedule. In making request for a substitution, the contractor actionnessings that has reviewed the required sindustribution and determined and guarantees that the substitution literal stall provide for equivalent determined and guarantees that the substitution literal stall provide for equivalent determined and guarantees that the substitution literal stall provide for equivalent perspectives of the substitution of the substitution of the substitution properly that they may pract tracking code of outstituted learn with all other aspects of the grouped that they may pract tracking code of outstituted reads or in the work.

The contractor shall guarantee all aspects of his work against defects in material and workmanship for a period of one year from the date of completion of the project. This is in addition to any other equipment and material warranties and guarantees in effect.

An materials, equipment or trades requiring lead-time or critering shall be scheduled by contract to a low for the timely execution of the work. No changes or extras will be granted for material ordered with insufficient time for their proper construction and implementation. Contractor shall notly the architect within 7 days of signing the contract for construction of any problems in obtaining the materials and Inharites specified.

23 Responsibility for Damage

Contractor shall be responsible for all damages done to existing work during construction, and shall repair and refinish such damages to former condition at no expense to the owner. Contractor shall protect work and adjacent non-work areas

Contractor shall employ a competent superintendent in attendance at the project site at all times during the progress of the work.

25 Dimensions, Notes and Conflicts in the Drawings

a. Unless noted otherwise in the drawings, all dimensions are to the outside fac of stud of the dimensioned assembly. It is the Contractor's responsibility to all for the finish materials when positioning wall, floor and not firating as required yield the visible lines and planes described in the drawings.
b. In the case of conflicting information within the contract documents:

Larger scale drawings shall have precedence over smaller scale drawings.
 Notes in the specifications shall have precedence over smaller scale drawings.
 Notes in the drawings shall have precedence over notes in the specifications.
 Dimensions in the drawings shall have precedence over scaled dimensions.

27 Product Handling, Storage and Protection

a. Deliver material to the project site or place of flabrication in 'manufacturer's original containers' with seals withreless and blade sited until incorporated into Project of the Containers' with seals with related to the Containers' and explaners in sincia accordance with manufacturer's written containers' and the Con

instructions.

d. Remove damaged or otherwise unsuitable material and equipment promptly from the site and replace with satisfactory material at no additional cost to the

a. Use experienced installers and tradesmen.
b. Install materials and systems in accordance with their manufacturer's printed instructions and approved submittalls in proper relation with adjacent construction and with uniform appearance.
c. Install assembles complete with all hardware, anchors, inserts, supports and accessories. Altach securely to supports. Test and adjust operation.
d. Clean and protect work from damage.

Keep work and adjacent areas free from accumulations of waste, debris and rubbish caused by construction operations. Do not allow operad containers of rubbish caused by construction operations, and operations of remove all waste materials, rubbish tools, equipment, machinery and surplus materials and clean all exposed surfaces. Leave project clean and ready for cocupancy. Repair, paths and touch-up mareed surfaces to specified firish as

ABBREVIATIONS

Above Finished Floor

Acquistical Scalant

Center to Center

Control Joint

Center Line

Ceramic Tile

Diameter

Equal Existing To Remain

Gauge

Granite

HRZNT Horizontal

INSIII Insulation Interior

Hour HR

Height

Information

Laminated

Lavatory

Low Point

Maximum

Mechanical Manufacturer

Miscellaneous

Not in Contract

Plastic Laminate

Prefabricated

Roof Drain

Reinforced

Required

Rough Opening

Specification

Stainless Steel

To be Removed / To be Replaced

Unless Noted Otherwise

Verify in Field

Waterproofing

Revision

Square

Standard

STRUC Structurel

VRTCL Vertical

Opent to Below / Beyond

Metal Panel

Nominal

Not to Scale On Center

Full Overlay

Galvanized

General Contractor

Gypsum Wall Board

Dimension

Bottom of

Blocking

AFF

ANOD

B/O

BLW Below

BYND Bevond

C/C

CJ

CL

CLAD Cladding

CLR Clear

COL Column

CONC Concrete

CORR Corrido

CPT Carpet

CT

DIAM

Ø DIM

DN Down

DTI Detail

DWG Drawing

ĒΑ Each

EQ

F/O

FLR Floor

GALV

GI Glass

GR

INFO

LAV

MAX

MECH

MISC

MTI Metal

NOM

NTS

OPNG Opening

PLBG Plumbing

PLWD Plywood

PREFA

PTD Painted

RD

REOD

REV

RO

SIM Similar SPEC

STD

STL

STR Stair

T/O Top of

TYP Typical U.N.O

VIF

WPR WVNR Wood Veneer

отв

CLNG Ceiling

CONST Construction CONT Continuous

CONTR Contractor

ALUM Aluminum

1 ASSESSOR PARCEL NUMBER 03612222 2 MAP BOOK 3 TAX CODE AREA 3-108 4 SECT/TOWN/RANGE T11S-R1W.SEC15 5 EXISTING USE SINGLE FAMILY RESIDENCE 6 PROPOSED USE SINGLE FAMILY RESIDENCE 7 OCCUPANCY 8 YEAR BUILT 1910 9 FFFFCTIVE YEAR BUILT 2001 10 NUMBER OF STORIES EX 1 STORY WITH ATTIC ROOM. NEW 2 STORY 11 CONSTRUCTION 12 LOT AREA 4486SF

13 F.A.R. 52% 14 ALLOWED R.F.A 2 333SF 15 EXISTING R.F.A. 1.398SF 16 PROPOSED R.F.A. 2,3308 17 EXISTING CONDITIONED F.A. 106595 18 PROPOSED CONDITIONED F.A. 1997SF 19 SPRINKLERED

20 SCOPE OF WORK 162SE 1ST FLOOR AND 770SE 2ND FLOOR

LEGAL INFORMATION



DRAWING INDEX

G100 PROJECT INFORMATION / GENERAL NOTES A100 EX PLANS A101 SITE/ROOF PLAN A102 DRAINAGE PLAN N FLOOR PLAN A200 FX FI EVATIONS N ELEVATIONS A201 A300 SECTIONS A301 DETAILS A700 CEC A700 1 CEC A700.2 CEC A702 MANDATORY MEASURES PRODUCT SPECS A800 L100 LANDSCAPE PLAN

STRUCTURAL NOTES AND TYPICAL DETAILS

LOWER FLOOR FRAMING AND FOUNDATION PLAN S3 SECOND ELOOR ERAMING PLAN

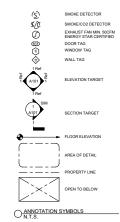
UPPER ROOF FRAMING PLAN FOLINDATION DETAILS

CEILING, SECOND FLOOR, AND ROOF FRAMING DETAILS

_-----APPLICABLE CODES ALL WORK UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS AND DRAWINGS, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNING BODIES

CODES
2019 CAL BUILDING CODE
2019 CAL PLUMBING CODE
2019 CAL MECHANICAL CODE 2019 CAL ELECTRIC CODE 2019 CAL RES CODE 2019 CAL ENERGY EFFICIENCY STANDARDS CODE & LOCAL AMMENDMENTS

THESE PLANS ARE IN COMPLIANCE WITH CALIFORNIA BUILDING AND FIRE CODES (2019) AND CENTRAL FIRE PROTECTION DISTRICT AMENDMENTS.



gigante AG

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

LYNN JACKSON

CLIENT

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA. CA 95010

STREETER GROUP INC. 2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

GENERAL CONTRACTOR

LEGEND (E) TO REMAIN

(E) DEMO / TO BE PEMOVED (TRP)

(N) CONSTRUCTION

PROJECT

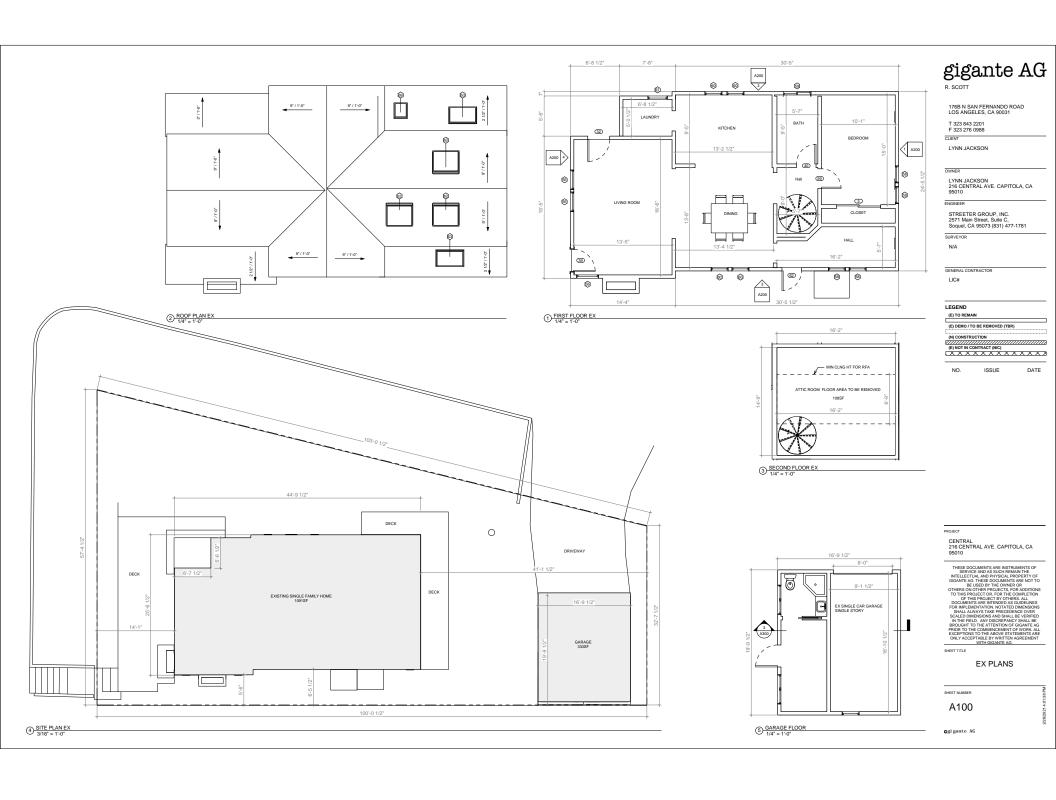
CENTRAL 216 CENTRAL AVE. CAPITOLA, CA

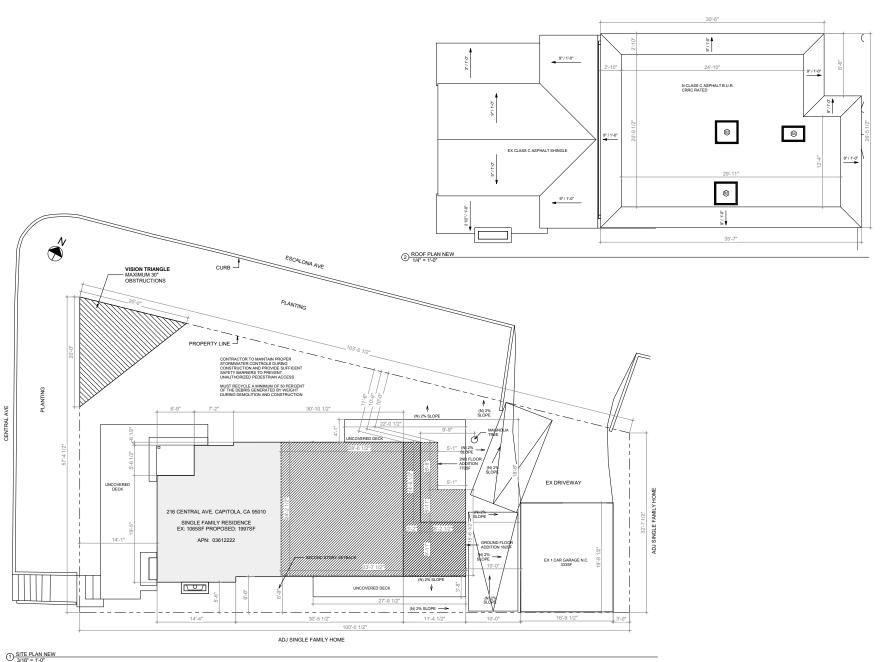
THESE DOCUMENTS ARE INSTRUMENTS OF SERVICE AND AS SUCH REBARK THE WAS REPORTED AND AS SUCH REBARK THE WAS REPORTED AND AS SUCH REBARK THE WAS REPORTED AND AS SUCH REPORTED AND ASSOCIATION OF GRANTER AS SUCH REPORTED AS SUCH REPORT AS SUCH REPORTED AS SUCH R

PROJECT INFORMATION / GENERAL NOTES

SHEET NUMBER

G100





gigante AG

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

T 323 843 2201 F 323 276 0988

CLIENT LYNN JACKSON

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA, CA 95010

STREETER GROUP, INC. 2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

N/A

GENERAL CONTRACTOR LIC#

LEGEND (E) TO REMAIN

(E) DEMO / TO BE REMOVED (TBR)

(N) CONSTRUCTION

(E) NOT IN CONTRACT (NIC)

PROJECT

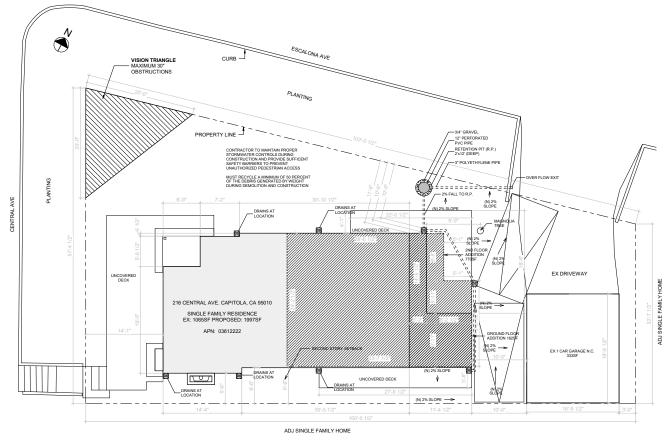
CENTRAL 216 CENTRAL AVE. CAPITOLA, CA 95010

THESE DOCUMENTS ARE INSTRUMENTS OF ERRORCE AND AS SUCH REAMANT THE MERCHAEL AND AS SUCH AS THE ASSUMENT AS A SUCH AS THE ASSUMENT AS A SUCH AS A SU

SITE/ROOF PLAN

SHEET NUMBER

A101



1 DRAINAGE PLAN 3/16" = 1'-0"

gigante AG

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

T 323 843 2201 F 323 276 0988

CLIENT LYNN JACKSON

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA, CA 95010

STREETER GROUP, INC. 2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

N/A

GENERAL CONTRACTOR

LIC#

LEGEND

(E) TO REMAIN

(E) DEMO / TO BE REMOVED (TBR)

(N) CONSTRUCTION

(E) NOT IN CONTRACT (NIC)

PROJECT

CENTRAL 216 CENTRAL AVE. CAPITOLA, CA 95010

THESE DOCUMENTS ARE INSTRUMENTS OF ERROVER AND AS SUCH REAMANT THE WAY AND AS SUCH REAMANT THE WAY ARE AS A SUCH REAMANT THE WAY ARE AS A SUCH AS

DRAINAGE PLAN

SHEET NUMBER

A102



| NEW DOOR SCHEDULE | | | | | | | | | |
|-------------------|--------------------|---------|---------|------------------|------------------|--|--|--|--|
| Door Number | Operation | Height | Width | Phase Created | Phase Demolished | | | | |
| 3 | CLOSET SLIDING | 6' - 8" | 6" - 0" | Existing | New Construction | | | | |
| 44 | INT SWING | 6' - 8" | 2' - 8" | New Construction | None | | | | |
| 45 | INT POCKET | 6' - 8" | 2'.8" | New Construction | None | | | | |
| 46 | INT POCKET | 6' - 8" | 2' - 8" | New Construction | None | | | | |
| 47 | INT POCKET | 6' - 8" | 2' - 8" | New Construction | None | | | | |
| 48 | INT POCKET | 6' - 8" | 2" - 8" | New Construction | None | | | | |
| 49 | INT POCKET | 6' - 8" | 2'-6" | New Construction | None | | | | |
| 50 | INT SWING | 6' - 8" | 2" - 8" | New Construction | None | | | | |
| 51 | EXT SWING GLASS | 6' - 8" | 2' - 8" | New Construction | None | | | | |
| 52 | CLOSET SLIDING | 6' - 8" | 4" - 0" | New Construction | None | | | | |
| 54 | EXT SWING GLASS | 6' - 8" | 2'-8" | New Construction | None | | | | |
| 57 | CLOSET SLIDING | 6' - 8" | 5" - 0" | New Construction | None | | | | |
| 58 | INT POCKET | 6' - 8" | 2'-8" | New Construction | None | | | | |
| 59 | INT SWING | 6' - 8" | 2'-8" | Existing | New Construction | | | | |
| 62 | EXT SWING GLASS | 6' - 8" | 2' - 8" | Existing | New Construction | | | | |
| 63 | INT BIFOLD 4 PANEL | 6' - 8" | 3' - 6" | New Construction | None | | | | |
| 64 | EXT DBL SWING | 6' - 8" | 4' - 0" | New Construction | None | | | | |
| 66 | EXT SWING GLASS | 6' - 8" | 2' - 8" | New Construction | None | | | | |
| 68 | | 6' - 8" | 2'-6" | New Construction | None | | | | |

| | KEYNOTE LEGEND |
|--------------|----------------|
| Key Value | Keynote Text |

01 18" x 24" Under floor access and 30"X30" attic access above Glazing in bathrooms shall be tempered Where branch-circuit wiring is modified, replaced or extended in areas specified in CEC 210.12(A), the branch circuit shall in areas specified in CEC 210.12(A), the brainch circuit shall be protected by either a listed combination-type AFCI located at the origin of the branch circuit or a listed outlet branch-circuit type AFCI located at the first receptacle of the existing branch circuit.

All non-locking type 125-volt, 15 and 20 ampere receptacles in a dwelling unit shall be listed tamperresistant receptacles. (Exceptions: (1) receptacles more than 5'-6" above the floor, (2) receptacles part of a luminaire or appliance, (3) a single receptacle or a duplex receptacle for two appliances that are not easily moved and located within dedicated space and are chord-and-plug connected as per CEC 400.7, and (4) non-grounding receptacles used for replacements as permitted in CEC 406.4 (D) (2) (a).

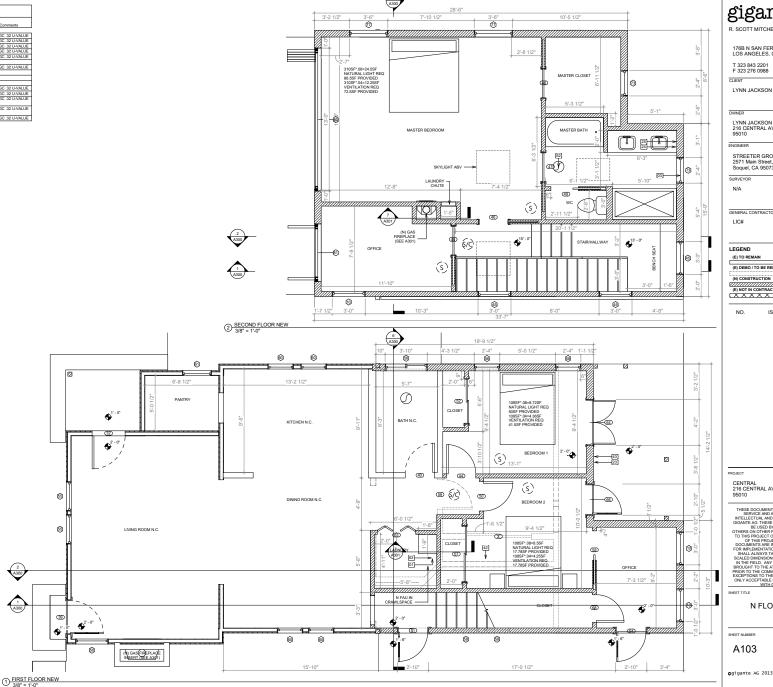
Permanently installed luminaires in rooms other than kitchens bathrooms, garages, laundy rooms, and utility rooms are to be high efficacy, or controlled by a dimmer switch, or controlled by an occupancy sensor that does not turn on automatically or have an always-on option.

GFCI Power in wet locations

Exterior lighting is to be high efficacy or must be controlled by a motion sensor. Also, the lighting must by one of the following methods: i) Photocontrol not having an override or bypass switch that (disables the photocontrol, or Astronomical time clock not having an override or bypass switch that (disables the photocontrol, or Astronomical time clock not having an override or i) phase switch that the photocontrol or phase switch photocontrol or phase switch photocontrol or phase switch photocontrol or photocontrol switch that disables the astronomical time clock, and which is programmed to automatically turn the outdoor lighting OFF programmed to automatically turn the outdoor lighting OFF during daylight hours; or iii Brenzy management control system which meets all of the following requirements. At a color of the c and, is programmed to automatically turn the outdoor lighting OFF during daylight hours.

i. Fans shall be ENERGY STAR compliant and be ducted to terminate to the outside of the building, ii. Fans, not functioning as a component of a whole house ventilation system, must be controlled by a humidity control.

Heater shall be capable of maintaining a minimum room temperature of 68°F at a point 3 feet above the floor and 2 feet from exterior walls in all habitable rooms at the design temperature. (R303.9)



gigante AG

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

T 323 843 2201 F 323 276 0988

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA, CA 95010

STREETER GROUP INC 2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

GENERAL CONTRACTOR

LEGEND (E) TO REMAIN

(E) DEMO / TO BE DEMOVED /TRD

(N) CONSTRUCTION

(E) NOT IN CONTRACT (NIC)

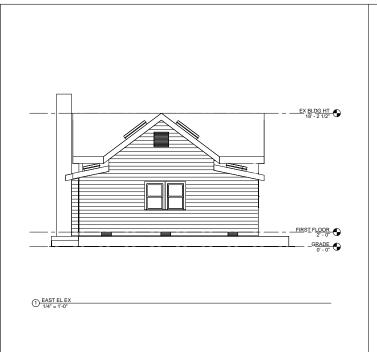
CENTRAL 216 CENTRAL AVE. CAPITOLA, CA

THESE DOCUMENTS ARE INSTRUMENTS OF ERROVER AND AS SUCH REAMAN THE MERCHAND AS SUCH REAMAN THE MERCHAND AS SUCH REAMAN THE MERCHAND AS A SUCH REAMAN THE MERCHAND AS A SUCH REAL TO THE PROBLEM TO THE ATTENTION TO THE PROBLEM TO THE ATTENTION OF GROWNER AS A SUCH TO THE ATTENTION OF GROWNER AS A SUCKEPTION OF THE ADOLE STATEMENTS ARE ONLY ACCEPTANCE TO THE ADOLE STATEMENT AND EXCEPTIONS TO THE ADOLE STATEMENT AND

N FLOOR PLAN

SHEET NUMBER

A103









gigante AG

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

T 323 843 2201 F 323 276 0988

CLIENT LYNN JACKSON

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA, CA 95010

STREETER GROUP, INC. 2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

N/A

GENERAL CONTRACTOR LIC#

LEGEND (E) TO REMAIN

(E) DEMO / TO BE REMOVED (TBR)

(N) CONSTRUCTION

PROJECT

CENTRAL 216 CENTRAL AVE. CAPITOLA, CA 95010

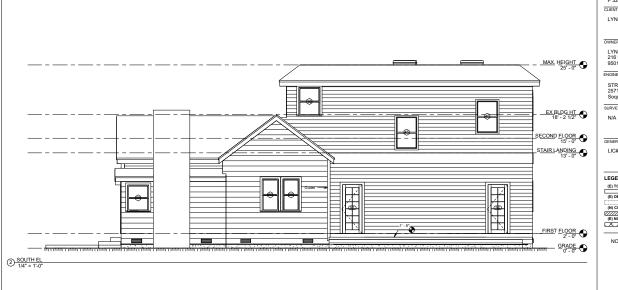
THESE DOCUMENTS ARE INSTRUMENTS OF ERROVER AND AS SUCH REAMENT THE MERCHAND AS SUCH AS THE MERCHAND AS

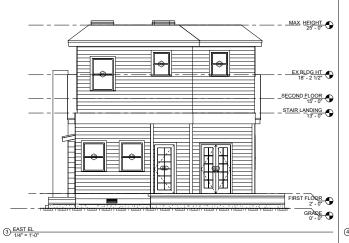
EX ELEVATIONS

SHEET NUMBER

A200

CRAWLSPACE VENTILATION 1213SF / 150 = 8SF MIN QTY 12, .667SF VENTS = 8SF





1) WEST EL 1/4" = 1'-0"

MAX. HEIGHT 25' - 0"

EX BLDG HT 18" - 2 1/2"

SECOND FLOOR 15' - 0"

STAIR LANDING

FIRST FLOOR 2' - 0"

GRADE 0' - 0"



gigante AG

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

T 323 843 2201 F 323 276 0988

CLIENT

LYNN JACKSON

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA, CA 95010

STREETER GROUP, INC. 2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

GENERAL CONTRACTOR

LIC#

LEGEND

(E) TO REMAIN (E) DEMO / TO BE REMOVED (TBR)

(N) CONSTRUCTION

PROJECT

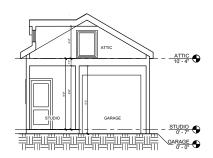
CENTRAL 216 CENTRAL AVE. CAPITOLA, CA 95010

THESE DOCUMENTS ARE INSTRUMENTS OF ERROVER AND AS SUCH REAMANT THE WAY AND AS SUCH REAMANT THE WAY ARE AS A SUCH REAMANT THE WAY ARE AS A SUCH AS

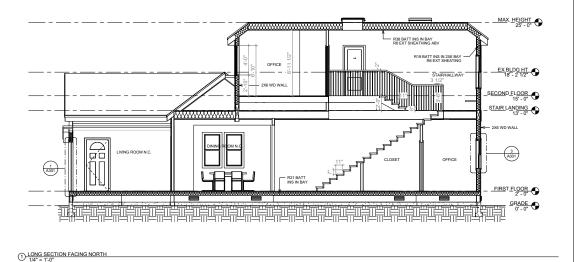
N ELEVATIONS

SHEET NUMBER

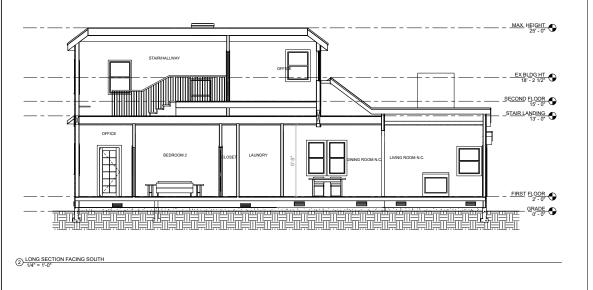
A201



3 GARAGE SECTION 1/4" = 1'-0"



MAX. HEIGHT 25' - 0" 18" - 2 1/2" SECOND FLOOR 15' - 0" STAIR LANDING 13' - 0" FIRST FLOOR 6 SHORT SECTION FACING EAST 1/4" = 1'-0"



gigante AG

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

T 323 843 2201 F 323 276 0988

CLIENT

LYNN JACKSON

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA, CA 95010

STREETER GROUP, INC. 2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

GENERAL CONTRACTO

LIC#

LEGEND (E) TO REMAIN

(E) DEMO / TO BE REMOVED (TBR)

(E) NOT IN CONTRACT (NIC)

ISSUE

PROJECT

CENTRAL 216 CENTRAL AVE. CAPITOLA, CA 95010

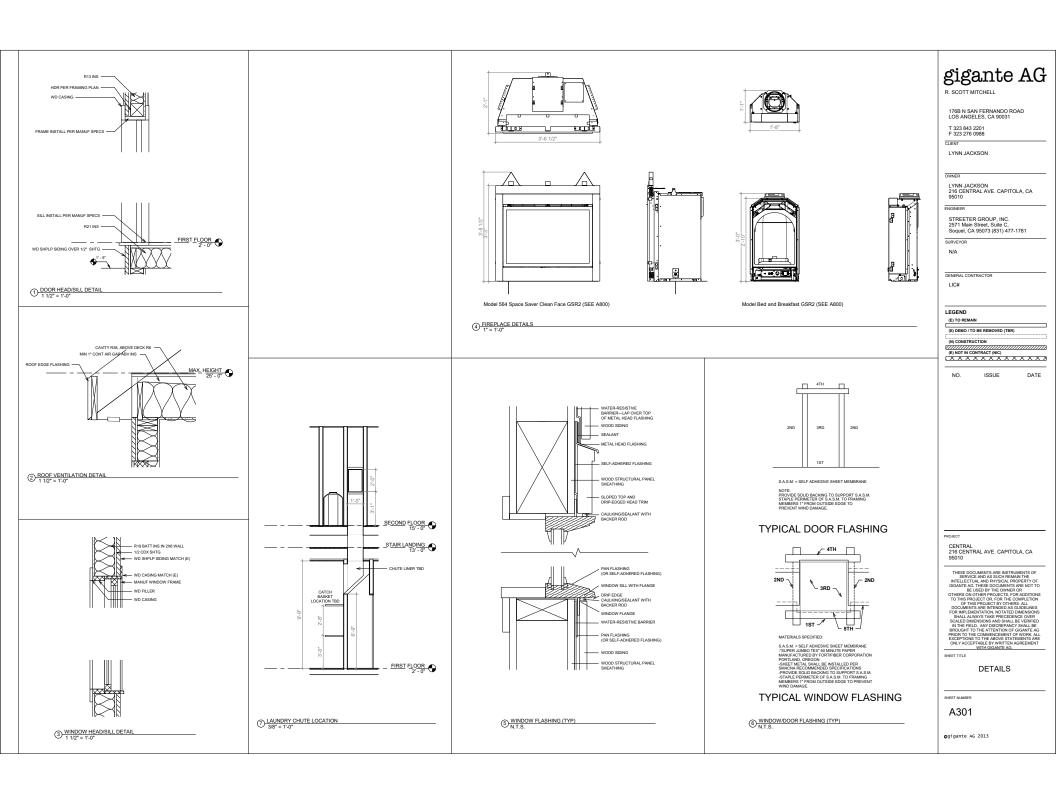
THESE DOCUMENTS ARE INSTRUMENTS OF SERVICE AND AS SUPH REAMS THE INTELLECTURA AND POSICIOUS FRAME THE INTELLECTURA AND PROSICIOUS FASTER THE INTELLECTURA AND PROSICIOUS FASTER FOR ADDITION OF THE PROJECT FOR OTHERS ALL OWNERS AND SHALL ANALYST TAKE PRECEDENCE OVER SHALL ANALYST TAKE PRECEDENCE OVER SHALL ANALYST TAKE PRECEDENCE OF THE PROPERTY OF THE ATTENTION OF GRANTE AS OF THE ATTENTION OF THE ATTENTION OF GRANTE AS OF THE ATTENTION OF T

SHEET TITLE

SECTIONS

SHEET NUMBER

A300





| Г | 02 | This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS pro |
|---|----|---|
| | 03 | This building incorporates one or more Special Features shown below |
| Г | | ENERGY USE SUMMARY |
| Н | | |

Registration Number: 420-P010027159A-000-000-0000000-0000

CERTIFICATE OF COMPLIANCE

Project Name: CENTRAL AVE

| | ENERGY (| ISE SUMMARY | | |
|---------------------------------------|-----------------|-----------------|-------------------|---------------------|
| Energy Use (kTDV/ft ² -yr) | Standard Design | Proposed Design | Compliance Margin | Percent Improvement |
| Space Heating | 21.1 | 20.34 | 0.76 | 3.6 |
| Space Cooling | 0.98 | 1.6 | -0.62 | -63.3 |
| IAQ Ventilation | 2.65 | 2.65 | 0 | 0 |
| Water Heating | 13.4 | 13.53 | -0.13 | -1 |
| Self Utilization Credit | n/a | 0 | 0 | n/a |
| Compliance Energy Total | 38.13 | 38.12 | 0.01 | 0 |

| CA Building Energy Efficiency Standards - 2019 Residential Compliance | Report Version: 2019.1.108 Schema Version: rev 20200101 | Report Generated: 2020-03-05 21:26:05 |
|---|--|---------------------------------------|
| | | |

Registration Date/Time: 03/05/2020 21:30

HERS Provider: Cal Energy

CF1R-PRF-01E

CERTIFICATE OF COMPLIANCE

| OPAQUE SURFAC | ts | | | | | | | | | |
|----------------------|---------------|--------------------|---------|-------------|-------------------------------|-------------------------------|------------|-----------------|----------|--------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Name | Zone | Construction | Azimuth | Orientation | Gross Area (ft ²) | Window and Door Area (ft2) | Tilt (deg) | Wall Exceptions | Status | Verified Existing Condition |
| LIVING ROOM WEST | LIVING ROOM | EXTERIOR WALL | 270 | Front | 185 | 51.9 | 90 | none | Existing | No |
| LIVING ROOM SOUTH | LIVING ROOM | EXTERIOR WALL | 0 | Left | 136 | 10.98 | 90 | none | Existing | No |
| LIVING ROOM NORTH | LIVING ROOM | EXTERIOR WALL | 180 | Right | 68 | 17.78 | 90 | none | Existing | No |
| PANTRY WEST | PANTRY | EXTERIOR WALL | 270 | Front | 54 | . 0 | 90 | none | Existing | No |
| PANTRY NORTH | PANTRY | EXTERIOR WALL | 180 | Right | 73 | 7,0756 | 90 | none | Existing | No |
| KITCHEN NORTH | KITCHEN | EXTERIOR WALL | 180 | Right | 136 | 20.97 | 90 | none | Existing | No |
| KITCHEN SOUTH | KITCHEN | EXTERIOR WALL | 0 | Left | 175 | 38.6856 | 90 | none | Existing | No |
| BATH NORTH | BATH | EXTERIOR WALL 2006 | 180 | Right | 59 | 7.41 | 90 | none | New | n/a |
| BED 1 NORTH | BED 1 | EXTERIOR WALL 2005 | 180 | Right | 105 | 17.0556 | 90 | none | Existing | No |
| BED 1 EAST | BED 1 | EXTERIOR WALL 206 | 90 | Back | 100 | 33.3 | 90 | none | New | n/a |
| BED 2 EAST | BED 2 | EXTERIOR WALL 2005 | 90 | Back | 40 | 17.7156 | 90 | none | New | n/a |
| OFFICE SOUTH | OFFICE 1 | EXTERIOR WALL 2X6 | 0 | Left | 97.5 | 17.7156 | 90 | none | New | n/a |
| OFFICE EAST | OFFICE 1 | EXTERIOR WALL 2005 | 90 | Back | 97.5 | 20.97 | 90 | none | New | n/a |
| M BED WEST | M BED | EXTERIOR WALL 2006 | 270 | Front | 130 | 58.5 | 90 | none | New | n/a |
| M SED NORTH | M BED | EXTERIOR WALL 2005 | 180 | Right | POSSYER | y 28 | 90 | none | New | n/a |
| M BED EAST | M BED | EXTERIOR WALL 2006 | 90 | Back | 76,5 | 7.7589 | 90 | none | New | n/a |
| M BATH EAST | M BATH | EXTERIOR WALL 2006 | 90 | Back | 70 | 7.7589 | 90 | none | New | n/a |
| M BATH NORTH | M BATH | EXTERIOR WALL 2006 | 180 | Right. | 35 | 0 | 90 | none | New | n/a |
| M OFFICE WEST | M OFFICE | EXTERIOR WALL 2006 | 270 | Front | 77 | 30 | 90 | none | New | n/a |
| M OFFICE SOUTH | M OFFICE | EXTERIOR WALL 2006 | 0 | Left | 106 | 12 | 90 | none | New | n/a |
| STAIR SOUTH | STAIR/HALLWAY | EXTERIOR WALL 2006 | 0 | Left | 273 | -27 | 50 | none | New | n/a |
| STAIR EAST | STAIR/HALLWAY | EXTERIOR WALL 2X6 | 90 | Back | 91 | 13.5 | 90 | none | New | n/a |

| Registration Number: 420-P010027159A-000-000-000000-0000 | Registration Date/Time: 03/05/2020 21:30 | HERS Provider: Cal Energy |
|---|--|-----------------------------------|
| CA Building Energy Efficiency Standards - 2019 Residential Compliance | Report Version: 2019.1.108 Schema Version: rev 20200101 | Report Generated: 2020-03-05 21:2 |

| CERTIFICATE OF COMPLIANCE | | CF1R-PRF-01E |
|---------------------------|--|----------------|
| Project Name: CENTRAL AVE | Calculation Date/Time: 2020-03-05T21:21:31-08:00 | (Page 2 of 14) |
| Calculation Description: | Input File Name: CENTRAL AVE_03.05.20.ribd19 | |
| | | |

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 |
|---|--|--------------------------|-----------------------|------------------------|-------------|------------------|---------------|----------------------|-----------------|----------------------|------------------------------|
| DC System Size (kWdc) | Exception | Module Type | Array Type | Power Electronics | CFI | Azimuth (deg) | Tilt Input | Array Angle (deg) | Tilt: (x in 12) | Inverter Eff. (%) | Annual Solar Acces (%) |
| 5 | NA | Standard | Fixed (roof mount) | none | true | 150-270 | n/a | n/a | <=7:12 | 96 | 100 |
| REQUIRED SPECIAL The following are f | | e installed as condition | for meeting the m | odeled energy performa | nce for thi | s computer ar | nalysis. | | | | |
| Zonal heatin Cool roof | | | | 1 | 7 | | | | | | |
| Window ove | h level of insulatio rhangs and/or fins estem included | | | | | | | | | | |
| | vl space | _ | AL | IEO | VD. | 1,44 | 11 | | | | |
| Ducts in crar | | | | | | | | | | | |

| None | | | | | | | |
|--|---|---|----|---|-----|---|--|
| Domestic Hot Water System Verifications: | | | | | | | |
| Duct leakage testing | | | | | | | |
| HVAC Distribution System Verifications: | - | | - | - | 7.7 | 9 | |
| None | | н | 5- | 1 | | | |
| Heating System Verifications: | - | | _ | _ | _ | | |
| | | | | | | | |

| Registration Number: 420-P010027159A-000-000-0000000-0000 | Registration Date/Time: 03/05/2020 21:30 | HERS Provider: Cal Energy |
|---|--|---------------------------------------|
| CA Building Energy Efficiency Standards - 2019 Residential Compliance | Report Version: 2019.1.108 Schema Version: rev 20200101 | Report Generated: 2020-03-05 21:26:05 |

| Calculation Desi | | | | | | File Name: CENTI | | | | |
|-----------------------|-------------|--------------------------|---------|-------------|-------------------------------|-------------------------------|------------|-----------------|----------|--------------------------------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | - 11 |
| Name | Zone | Construction | Azimuth | Orientation | Gross Area (ft ²) | Window and Door Area (ft2) | Tilt (deg) | Wall Exceptions | Status | Verified Existing Condition |
| LIVING ROOM CELING | LIVING ROOM | CEILING BELOW ATTIC | n/a | n/a | 275 | n/a | n/a | | Existing | No |
| KITCHEN CÉILING | KITCHEN | CEILING BELOW AFTIC | n/a | n/a | 353 | n/a | n/a | | Existing | No |
| BATH CEIUNG | ватн | CEILING BELOW AFTIC | n/a | n/a | 62 | n/a | n/a | | Existing | No |
| LIVING ROOM FLOOR | LIMING ROOM | FLOOR OVER ORAWLSPACE | n/a | n/a | 275 | n/a | n/a | | Existing | No |
| PANTRY FLOOR | PANTRY | FLOOR OVER CRAWLSPACE | n/a | n/a | g 41 | n/a | n/a | | Existing | No |
| KITCHEN FLOOR | KITCHEN | FLOOR OVER CRAWLSPACE | n/a | n/a | 353 | r/a | n/a | | Existing | No |
| BATH FLOOR | ватн | FLOOR OVER CRAWLSPACE | n/8 | n/a | 62 | n/a | n/a | | Existing | No |
| LAUDNRY FLOOR | LAUNDRY | FLOOR OVER CRAWLSPACE | 0/2 | n/a | 78 | n/a | n/a | | New | No |
| BED 1 FLOOR | 8ED 1 | FLOOR OVER CRAWLSPACE | n/a | n/a | 142 | n/a | n/a | | Existing | No |
| BED 2 FLOOR | BED 2 | FLOOR OVER CRAWLSPACE | n/a | n/a | 135 | n/a | n/a | | Existing | No |
| OFFICE FLOOR | OFFICE 1 | FLOOR OVER CRAWLSPACE | n/a | n/a | 80 | n/a | n/a | | New | n/a |
| LAUNDRY CEILING | LAUNDRY | INTERIOR CEILING | n/a | ri/s | 78 | r/a | n/a | - | New | No |
| BED 1 CEILING | BED 1 | INTERIOR CEILING | n/a | n/a | 110 | r/a | n/a | | Existing | No |
| BED 2 CEIUNG | BED 2 | INTERIOR CEILING | n/s | n/a | 101 | r/a | n/a | | Existing | No. |
| OFFICE CEILING | OFFICE 1 | INTERIOR CEILING | n/a | n/a | 145 | n/a | n/a | | New | n/a |
| M BED FLOOR | M BED | INTERIOR FLOOR | n/a | n/a | 392 | n/a | n/a | | New | n/a |
| M BATH FLOOR | M BATH | INTERIOR FLOOR | n/a | n/a | 114 | n/a | n/a | | New | n/a |

| Registration Number: 420-P010027159A-000-000-000000-0000 | Registration Date/Time: 03/05/2020 21:30 | HERS Provider: Cal Energy |
|---|--|---------------------------------------|
| CA Building Energy Efficiency Standards - 2019 Residential Compliance | Report Version: 2019.1.108 | Report Generated: 2020-03-05 21:26:05 |

| CERTIFICATE OF COMPLIANCE | | CF1R-PRI |
|---------------------------|--|-----------|
| Project Name: CENTRAL AVE | Calculation Date/Time: 2020-03-05T21:21:31-08:00 | (Page 3 c |
| Calculation Description: | Input File Name: CENTRAL AVE_03.05.20.ribd19 | |

| Project Name | Conditioned Floor Area (ft ²) | Units | Number of Bedrooms | Number of Zones | Cooling Systems | Heating Systems |
|-----------------|---|---------------|------------------------------------|---------------------|------------------------|----------------------|
| CENTRAL AVE | 1951 | 1 | - 1 | 12 | 0 | 1 |
| ONE INFORMATION | | - 1 | 12 13 | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
| Zone Name | Zone Type HV | C System Name | Zone Floor Area (ft ²) | Avg. Ceiling Height | Water Heating System 1 | Water Heating System |
| LIVING ROOM | Living | VAC System 1 | 275 | 9.75 | DHW System 1 | N/A |
| PANTRY | Living | VAC System 1 | 11 41 | 9.75 | DHW System 1 | N/A |
| KITCHEN | Living | VAC System 1 | 353 | 9.75 | DHW System 1 | N/A |
| BATH | Living H | VAC System 1 | 62 | 9.75 | DHW System 1 | N/A |
| LAUNDRY | Living H | VAC System 1 | 78 | 9.75 | DHW System 1 | N/A |
| BED 1 | Sleeping | VAC System 1 | 110 | 9.75 | DHW System 1 | N/A |
| BED 2 | Skeeping | VAC System 1 | 101 | 9.75 | DHW System 1 | N/A |
| OFFICE 1 | Living F | WAC System 1 | 145 | 9.75 | DHW System 1 | N/A |
| M BED | Sleeping F | VAC System 1 | FO 392 ERLY | 8.5 | DHW System 1 | N/A |
| M BATH | Living H | VAC System 1 | 114 | \$ 8.25 | DHW System 1 | N/A |
| M OFFICE | Living | VAC System 1 | 115 | 8.5 | DHW System 1 | N/A |
| STAIR/HALLWAY | Living H | VAC System 1 | 165 | 13 | DHW System 1 | N/A |

| Registration Date/Time: 03/05/2020 21:30 | HERS Provider: Cal Energy |
|--|---------------------------------------|
| Report Version: 2019.1.108 Schema Version: rev 20200101 | Report Generated: 2020-03-05 21:26:05 |
| | |
| | |
| | |

| OPAQUE SUF | FACES | | | | | | | | | | | | | | | |
|--------------------------------|-------------------|--------|-------------|-----------|-------------|---------------|-------------------|-------|-------------------|---|--------------------------|-------------------|--------------|---------------|-----------------------------------|------------------------------|
| 01 | 02 | | | 03 | 04 | 05 | | | 06 | П | 07 | 08 | | 09 | 10 | 11 |
| Name | Zor | ю | Con | struction | Azimuth | Orienta | tion G | iross | Area (ft²) | | ndow and r Area (ft2) | Tilt (deg | Wa | II Exceptions | Status | Verified Existi Condition |
| M OFFICE FLOOR | M OF | FICE | INTER | IOR FLOOR | n/a | n/a | | _ | 115 | | n/a | n/a | | | New | n/a |
| STAIR FLOO | R STAIR/HA | LLWAY | INTER | IOR FLOOR | n/a | n/a | 50 | U | 165 | | n/a | n/a | | | New | n/a |
| OPAQUE SUF | FACES - CATHI | DRAL C | ILINGS | _ | | | 10 | ď | 100 | 6 | _ | | | | | |
| 01 | 02 | 0 | 3 | 04 | 05 | 06 | 07 | 111 | 08 | 1 | 09 | 10 | 11 | 12 | 13 | 14 |
| Name | Zone | Constr | uction | Azimuth | Orientation | Area (ft²) | Skylig Area (f | | Roof Rise (in 12) | | Roof deflectance | Roof Emittance | Cool Roof | Status | Verified Existing Condition | Existing Construction |
| Cathedral Ceiling PANTRY | PANTRY | CATHI | | 270 | Right | 41 | 0 | (| 1 | 1 | 0.1 | 0.85 | No | Existing | No | |
| M BED CEILING | M BED | CATHI | DRAL ING | 270 | Right | 392 | 18 | | 0.5 | ı | 0.1 | 0.85 | No | New | n/a | |
| M BATH CEILING | M BATH | CATHI | DRAL ING | 270 | Right | 114 | 6 | П | 0.5 | | 0.1 | 0.85 | No | New | n/a | |
| M OFFICE CEILING | M OFFICE | CATHI | DRAL ING | 270 | Right | 115 | 0 | | 0.5 | I | 0.1 | 0.85 | No | New | n/a | |
| STAIR | STAIR/HALL WAY | CATH | | 270 | Right | 165 | 0 | | 0.5 | T | 0.1 | 0.85 | No | New | n/a | |

| CEILING | WAY | CEILING | 270 | Right | 165 | 0.5 | 0.1 | 0.85 | No | New | n/a | |
|---------|-----|--------------|-------------|-------|------------------------|---------------------|-------------------|--------------------|-----------|--------|--------------------------------|----|
| | | | | | | PURMER | TA. | | 7 | | | |
| ATTIC | | | | | 10.1 | A gen per | D 0 | | | | | |
| 0 | 11 | | 02 | | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 |
| Na | me | Construction | | Type | Roof Rise (x in 12) | Roof Reflectance | Roof Emittance | Radiant Barrier | Cool Roof | Status | Verified Existing Condition | |
| Az | tic | Asph | alt Shingle | Roof | Ventilat | ed 5 | 0.25 | 0.9 | Yes | Yes | Existing | No |

Registration Number: 420-P010027159A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance

CF1R-PRF-01E

CERTIFICATE OF COMPLIANCE

Registration Date/Time: 03/05/2020 21:30 Report Version: 2019.1.108 Schema Version: rev 20200101

HERS Provider: Cal Energy Report Generated: 2020-03-05 21:26:05

gigante AG

R. SCOTT MITCHELL

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

LYNN JACKSON

CLIENT

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA, CA 95010

STREETER GROUP, INC. 2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

N/A

GENERAL CONTRACTOR

LIC#

LEGEND (E) TO REMAIN

(E) DEMO / TO BE REMOVED (TBR)

(N) CONSTRUCTION

PROJECT

CENTRAL 216 CENTRAL AVE. CAPITOLA, CA 95010

THESE DOCUMENTS ARE INSTRUMENTS OF SERVICE AND AS SUCH REBARK THE MESSAGE AND AS SUCH AS AS

CEC

SHEET NUMBER A700

| Calculation Descrip | tion: | | | | | | Input | File Na | me: CEN | RAL AVE_ | 03.05.20. | ribd19 | | | |
|---------------------|--------|---------------------|-------------|---------|---------------|----------------|-------|---------------|----------|--------------------|-----------|----------------|---------------------|----------|-----------------------------------|
| FENESTRATION / GLA | ZING | | 3 2 3 | | | | | | | | | | | | 3 1.7 |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Name | Туре | Surface | Orientation | Azimuth | Width (ft) | Height (ft) | Mult. | Area (ft²) | U-factor | U-factor Source | SHGC | SHGC Source | Exterior Shading | Status | Verified Existing Condition |
| LIVING ROOM 55 | Window | LIVING ROOM WEST | Front | 270 | 2.66 | 6 | 1 | 15.95 | 0.32 | NFRC | 0.5 | NFRC | Bug Screen | Existing | No |
| LIVING ROOM 55-2 | Window | LIVING ROOM WEST | Front | 270 | 2.66 | 6 | ră. | 15.96 | 0.32 | NFRC | 0.5 | NFRC | Bug Screen | Existing | No |
| 39 | Window | LIVING ROOM WEST | Front | 270 | 3 | 6,66 | 1 | 19.98 | 0.32 | NERC | 0.5 | NERC | Bug Screen | Existing | No |
| Window 4 | Window | NOOM SOUTH | Left | 0 | 3 | 8.66 | 1 | 10.98 | 0.32 | NFRC | 0.5 | NFRC | Bug Screen | Existing | No |
| PANTRY 61 | Window | PANTRY NORTH | Right | 180 | 2.66 | 2.66 | 1 | 7.08 | 0.32 | NFRC | 0.5 | NFRC | Bug Screen | Existing | No |
| KITCHEN 60 | Window | KITCHEN NORTH | Right | 180 | 2.33 | 4.5 | 1 | 10.48 | 0.32 | NERC | 0.5 | NFRC | Bug Screen | Existing | No |
| KITCHEN 60-2 | Window | KITCHEN NORTH | Right | 180 | 2.33 | 4.5 | 1 | 10.48 | 0.32 | NFRC. | 0.5 | NFRC | Bug Screen | Existing | No |
| KITCHEN 60-3 | Window | KITCHEN SOUTH | Left | 0 | 2.33 | 4.5 | 1 | 10.48 | 0.32 | NERC | 0.5 | NERC | Bug Screen | Existing | No |
| KITCHEN 60-4 | Window | KITCHEN | Left | 0 | 2.33 | 4.5 | 1 | 10.48 | 0.32 | NFRC | 0.5 | NFRC | Bug Screen | Existing | No |
| KITCHEN DOOR 51 | Window | KITCHEN SOUTH | Left | 0 | 2.66 | 6.66 | 1 | 17.72 | 0.32 | NFRC | 0.25 | NFRC | Bug Screen | New | n/a |
| BATH 59 | Window | BATH NORTH | Right | 180 | 3.9 | 1.9 | 1200 | 7.41 | 0.32 | NFRC | 0.5 | NERC | Bug Screen | Existing | No |
| BED 1 58-1 | Window | BED 1 NORTH | Right | 180 | 2.33 | 3.66 | 1 | 8.53 | 0.32 | NFRC | 0.25 | NFRC | Bug Screen | New | n/a |
| BED 1 58-2 | Window | BED 1 NORTH | Right | 180 | 2.33 | 3.66 | 1 | 8.53 | 0.32 | NFRC | 0.25 | NFRC | Bug Screen | New | n/a |
| BED 1 64 | Window | BED 1 EAST | Back | 90 | 5 | 6.66 | 1 | 33.3 | 0.32 | NFRC | 0.25 | NERC | Bug Screen | New | n/a |
| BED 2 66 | Window | BED 2 EAST | Back | 90 | 2.66 | 6.66 | 1 | 17.72 | 0.32 | NERC | 0.25 | NERC | Buz Screen | New | n/a |

Registration Number: 420-P010027159A-000-000-0000000-0000

CERTIFICATE OF COMPLIANCE

Registration Date/Time: 03/05/2020 21:30

HERS Provider: Cal Energy

| Commence of the Commence of th | |
|--|---------|
| Report Generated: 2020-03-05 | 21:26:0 |

CF1R-PRF-01E

CERTIFICATE OF COMPLIANCE

| ENESTRATION / GLA | 2000 | | | | | | | | | TRAL AVE_ | 03/03/20/ | 10015 | | | |
|------------------------|----------|-------------------|-------------|---------|---------------|----------------|-------|---------------|----------|--------------------|-----------|----------------|---------------------|--------|---------------------------------|
| D1 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Name | Туре | Surface | Orientation | Azimuth | Width (ft) | Height (ft) | Mult. | Area (ft²) | U-factor | U-factor Source | SHGC | SHGC Source | Exterior Shading | Status | Verifie Existin Condition |
| OFFICE 54 | Window | OFFICE | Left | 0 | 2.66 | 6.66 | 1 | 17,72 | 0.32 | NFRC | 0.25 | NFRC | Bug Screen | New | n/a |
| OFFICE 66-1 | Window | OFFICE EAST | Back | 90 | 2.33 | 4.5 | 1 | 10.48 | 0.32 | NERC | 0.25 | NFRC | Bug Screen | New | n/a |
| OFFICE 66-2 | Window | OFFICE EAST | Back | 90 | 2.33 | 45 | 1 | 10,48 | 0.32 | NERC | 0.25 | NERC | Bug Screen | New | r/a |
| M 8ED 80 | Window | M BED WEST | Front | 270 | 13 | 4.5 | 1 | 58.5 | 0.32 | NERC | 0.25 | NFRC | Bug Screen | New | n/a |
| M SED 77-2 | Window | M BED NORTH | Right | 180 | 3.5 | | 1 | 14 | 0.32 | NFRC | 0.25 | NFRC | Bug Screen | New | n/a |
| M BED 77-3 | Window | M BED NORTH | Right | 180 | 3.5 | =4/ | 1 | 14 | 0.32 | NERC | 0.25 | NFRC | Bug Screen | New | n/a |
| M BED 73 | Window | M BED EAST | Back | 90 | 2.33 | 3.33 | 100 | 7.76 | 0.32 | NERC | 0.25 | NFRC | Bug Screen | New | n/a |
| M BATH 73 | Window | M BATH EAST | Back | 90 | 2.33 | 3.33 | 1 | 7.76 | 0.32 | NFRC | 0.5 | NFRC | Bug Screen | New | n/a |
| M OFFICE 81 | Window | M OFFICE WEST | Front | 270 | 6 | 5 | 1 | 30 | 0.32 | NFRC | 0.25 | NFRC | Bug Screen | New | n/a |
| M OFFICE 10 | Window | M OFFICE SOUTH | Left | 0 | 3 | 4 | 1 | 12 | 0.32 | NFRC | 0.25 | NFRC | Bug Screen | New | n/a |
| STAIR 45 | Window | STAIR SOUTH | Left | 0 | 3 | 4.5 | 1 | 13.5 | 0.3 | NFRC | 0.25 | NFRC | Bug Screen | Now | n/a |
| STAIR 45-3 | Window | STAIR SOUTH | Left | 0 | 3 | 4.5 | 1 | 13.5 | 0.3 | NFRC | 0.25 | NFRC | Bug Screen | New | r/a |
| STAIR 45-2 | Window | STAIR EAST | Back | 90 | 3 | 4.5 | 71110 | 13.5 | 0.3 | NFRC | 0.25 | NFRC | Bug Screen | New | n/a |
| M BED SKYLIGHT 82-1 | Skylight | M BED CEIUNG | Right | 180 | CI | HE | I. | 9 | 0.32 | NFRC | 0.25 | NFRC | None | New | n/a |
| M BED SKYLIGHT 82-2 | Skylight | M BED CEIUNG | Right | 180 | | | 1 | 9 | 0.32 | NFRC | 0.25 | NFRC | None | New | r/a |
| M BATH SKYUGHT 54 | Skylight | M BATH CEILING | Right | 180 | | | 1 | 6 | 0.32 | NFRC | 0.25 | NFRC | None | New | n/a |

CA Building Energy Efficiency Standards - 2019 Residential Compliance

CERTIFICATE OF COMPLIANCE

Name

Report Generated: 2020-03-05 21:26:05

Calculation Date/Time: 2020-03-05T21:21:31-08:00

CF1R-PRF-01E

CEIR-PRE-DIE

Existing Water Heating System

Status Existing Condition

Report Generated: 2020-03-05 21:26:05

CERTIFICATE OF COMPLIANCE

| PAQUE DOORS | | | | | | | |
|---------------------|--------------------|------------------------|--------------------------------|-------------------------|--|----------|--|
| 01 | 02 | | 03 | 04 | | 05 | 06 |
| Name | Side of B | uilding | Area (ft²) | U-factor | | Status | Verified Existing Condition |
| 32 | LIVING ROO | M NORTH | 17.78 | 0.5 | | Existing | No |
| PAQUE SURFACE CONST | RUCTIONS | | 614 | 161 | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 80 |
| Construction Name | Surface Type | Construction Type | Framing | Total Cavity R-value | Interior / Exterior Continuous R-value | U-factor | Assembly Layers |
| EXTERIOR WALL | Exterior Walls | Wood Framed Wall | 2x4 @ 16 in. O. C. | R-13 | None / None | 0.088 | Inside Finish: Gypsum Board Cavity / Frame: R-13 / 2x4 Sheathing / Insulation: Wood Siding/sheathing/decking Exterior Finish: Wood Siding/sheathing/decking |
| EXTERIOR WALL 2X6 | Exterior Walls | Wood Framed Wall | 2x6 @ 16 in. O. C. | R-19 | R-6 / None | 0.047 | Inside Finish: Gypsum Board Sheathing / Insulation: R-6 Sheathing Cavity / Frame: R-19 in 5-1/2 in. (R-18) 2-6 Exterior Finish: Wood Siding/sheathing/decking |
| CATHEDRAL CEILING | Cathedral Ceilings | Wood Framed Ceiling | PORMERI Zxt2 @ 16 in .0. C. | R-38 | None / R-6 | 0.025 | Roofing: Light Roof (Asphelt Shingle) Above Deck Insulation: R-6 Sheathing Boof Deck: Wood Siding/sheathing/decking Cavity / Frame: R-88 in 31-1/4 in. (R-37 /2x12 Inside Finish: Gypsum Board |
| INTERIOR WALL | Interior Walls | Wood Framed Wall | 2x4 @ 16 in, O. C. | R-0 | None / None | 0.277 | Inside Finish: Gypsum Board Cavity / Frame: no insul. / 2x4 Other Side Finish: Gypsum Board |

Date/Time: 2020-03-05T21:21:31-08:00 Input File Name: CENTRAL AVE_03.05.20.ribd19

CERTIFICATE OF COMPLIANCE

Registration Number: 420-P010027159A-000-000-0000000-0000

CA Building Energy Efficiency Standards - 2019 Residential Compliance

Report Version: 2019.1.108 Schema Version: rev 20200101

HERS Provider: Cal Energy

Report Generated: 2020-03-05 21:26:05

CE10.005.01E

CF1R-PRF-01E

LEGEND (E) TO REMAIN (E) DEMO / TO BE REMOVED (TBR) (N) CONSTRUCTION

gigante AG

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA, CA

STREETER GROUP, INC. 2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

CLIENT LYNN JACKSON

95010

N/A

GENERAL CONTRACTOR

Calculation Date/Time: 2020-03-05T21:21:31-08:00 (Page 12 of 14) Calculation Description: Input File Name; CENTRAL AVE_03.05.20.ribd19

System Type

| 01 | 1 1 1 1 1 1 | 02 | | 03 | | 0 | | | 05 | | 06 | | 07 | | 08 |
|------------------------------|------------------------------|------------------|----------|-----------|----------------|----------------|--------|--------|----------------------|-------------------------|--|--------|-----------------------------------|------------------------------------|-------------------|
| Nan | ne Sy | stem Type | Nu | mber of U | nits | Efficien | cy EER | Effi | ciency SEE | R Zo | nally Controlle | d | Mulit-speed Compressor | HERS V | erification |
| Cooling S | ystem 1 N | lo Cooling | | 1 | | | 19 | - | | | Not Zonal | | Single Speed | Speed n/a | |
| IVAC - DISTI | RIBUTION SYSTEMS | | | _ | | - | 4 | 11 7 | - | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 30 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| | | | Duct Ins | R-value | Duct L | cation | Surfac | e Area | | | 2 | | | | |
| Name | Type | Design Type | Supply | Return | Supply | Return | Supply | Return | Bypass Duct | Duct Luakage | HERS Verification | Status | Verified Existing Condition | Existing Distribution system | New Duct 40 ft |
| Distributi on System 1 | Unconditioned crawl space | Non- Verified | R-6 | R-6 | Crawl Space | Crawl Space | n/a | n/a | No Bypass Duct | Sealed and Tested | Distributi on System 1-hers- dist | New | n/a | n/a | n/a |

| HVAC DISTRIBUTION - | HERE INCOMESCATION | | | FORMERLY | _ | | | |
|------------------------------------|------------------------------|----------------------------|---------------------------|-------------------------|--------------|------------------------|----------------------------|---|
| 01 | 02 | 03 | 04 | 05 | R 506 | 07 | 08 | 09 |
| Name | Duct Leakage Verification | Duct Leakage Target (%) | Verified Duct Location | Verified Duct Design | Buried Ducts | Deeply Buried Ducts | Low-leakage Air Handler | Low Leakage Ducts Entirely i Conditioned Space |
| Distribution System 1-hers-dist | Yes | 5.0 | Not Required | Not Required | Not Required | Credit not taken | Not Required | No |

Registration Number: 420-P010027159A-000-000-0000000-0000 CA Building Energy Efficiency Standards - 2019 Residential Compliance Registration Date/Time: 03/05/2020 21:30 Report Version: 2019.1.108 Schema Version: rev 20200101

HERS Provider: Cal Energy Report Generated: 2020-03-05 21:26:05 CENTRAL 216 CENTRAL AVE. CAPITOLA, CA

THESE DOCUMENTS ARE INSTRUMENTS OF ERROVER AND AS SUCH REAMENT THE MERCHAND AS SUCH AS THE MERCHAND AS

CEC

PROJECT

SHEET NUMBER

A700.1

ogi gante AG 2013

| OZ Surface Type Attic Roofs | 03 Construction Type Wood Framed | 04 Framing | 05 Total Cavity R-value | NTRAL AVE_03.05. 06 Interior / Exterior Continuous | 07 U-factor | OB Assembly Lavers | |
|-----------------------------|---|--|--|--|---|--|--|
| 02 Surface Type | Construction Type Wood Framed | | Total Cavity | Interior / Exterior Continuous | | | |
| Surface Type | Construction Type Wood Framed | | Total Cavity | Interior / Exterior Continuous | | | |
| | Wood Framed | Framing | | Continuous | Udactor | | |
| Attic Roofs | | 100 | | R-value | | Assembly Cayers | |
| | Celling | 2x4 @ 16 in. Q. C. | Ro | None / None | 0.629 | Roofing: Light Roof (Asphalt Shingle Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x4 | |
| Floors Over Crawlspace | Wood Framed Floor | 2x8 @ 16 in, O. C. | R-21 | None / None | 0.047 | Floor Surface: Hardwood Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: 8-21 / 2x8 | |
| Ceilings (below attic) | Wood Framed Ceiling | 2x12 @ 16 in 0, C. | R-30 | None / None | 0.035 | Attic Floor: Wood Siding/sheething/decking Cavity / Frame: R-29.2 / 2x12 Inside Finish: Gypsum Board | |
| Interior Floors | Wood Framed Floor | 2x12 @ 16 in. O. C. | EGI. | None / None | 0.276 | Floor Surface: Hardwood Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x12 Ceiling Below Finish: Gypsum Boar | |
| Interior Ceiling | Wood Framed Celling | 2x6 @ 16 in, O, C | RO BO | None / None | 0.35 | Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x6 Ceiling Below Finish: Gyptum Boar | |
| VERSECATION | | CHEE | K 2 | | | | |
| *LINE ICANIUN | | | m | | | O. | |
| alletion (OII) | | ray Form Insulation | | | | CFMSO | |
| | Crawispace Ceilings (below attic) Interior Floors Interior Ceiling Entire Ceiling Entire (QE) | Vood Famed Food Ceiling Bildow Wood Famed Ceiling Honor Floors Wood Famed Ceiling Honor Floors Wood Famed Ceiling Wood Famed Ceiling George Ge | Vood Framed Foot 2012 # 16 NO C Celling (Indow Wood Framed Carling United Floors Wood Framed Foot 2012 # 16 NO C Interior Floors Wood Framed Foot 2012 # 16 NO C Celling Wood Framed Foot 2012 # 16 NO C Celling Celling Celling Gail Vood Framed Foot 2012 # 16 NO C Celling Gail Vood Framed Celling Celling Gail Vood Framed Foot 2012 # 16 NO C Gail Vood Foot 2 | Configure Wood Framed Floor 2012 #3 floor Q 2 12 2 13 floor Q 2 13 | Vood Framed Floor 248 9 18 to Q 8-21 New / Nove / Nove Nove / Nove / Nove Nove | Vocal Frames Floor 248 # 18 to Q 1 - 21 Nove / Nove 0.057 | |

Registration Number: 420-P010027159A-000-000-0000-0000

Registration Date/Time: 03/05/2020 21:30

HERS Provider: Cal Energy Report Generated: 2020-03-05 21:26:05

| 01 | 02 | 03 | 04 | | 05 | 06 | | 07 | | 08 |
|-----------------------|----------------------------------|------------------------|----------------------|-----------------------|--------------------------|--------------------------------|--------|-----------------------------------|-------------------------------|--------------------------|
| Name | Pipe Insulation Pa | allel Piping | Compact Distribut | | Distribution Type | Recirculation Con | ntrol | Central DHV Distribution | | er Drain W at Recover |
| DHW System 1 - 1/1 | Not Required No | t Required | Not Required | | Vone | Not Required | | Not Require | d No | t Required |
| | | | 14 S. JHI | | 2 5 | | - 1 | | | |
| SPACE CONDITIONING ST | rSTEMS | | 2124 | | | | | | | |
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 |
| Name | System Type | Heating U Name | Cooling Unit Name | Fan Name | Distribution Name | Required Thermostat Type | Status | Verified Existing Condition | Heating Equipment Count | Cooli Equipo Cour |
| HVAC System 1 | Heating and cooling sys other | em Heating System N | | HWAC Fari System 1 | Distribution System 1 | Setback | New | No | 1 | 1 |

03 04 05 06 07 08 09 10

B Tank Energy
Vol. Factor or
(gal) Efficiency

Tank g insulation R-value (Int/Ext) Gas

Report Version: 2019.1.108 Schema Version: rev 20200101

CERTIFICATE OF COMPLIANCE Project Name: CENTRAL AVE Calculation Description:

HVAC Fan System 1

CF1R-PRF-01E Calculation Date/Time: 2020-03-05721:21:31-08:00 (Page 13 of 14) Input File Name: CENTRAL AVE_03.05.20.ribd19

| 02 | 03 | 04 |
|----------|-----------------------|------|
| Туре | Fan Power (Watts/CFM) | Name |
| HWAC Fan | 0.45 | n/a |

| INDOOR AIR QUALITY) FANS | | | V/// | | |
|--------------------------|---------|---------------|--------------|--------------------------------|---|
| 01 | 02 | 03 | 04 | 05 | 06 |
| Dwelling Unit | IAQ CFM | IAQ Watts/CFM | IAQ Fan Type | IAQ Recovery Effectiveness (%) | IAQ Recovery Effectiveness - SREIAQ Recovery Effectivene: - SRE |
| SFam IAQVentRpt | 85 | 0.25 | Default | 0 | n/a |



CHEERS

CF1R-PRF-01E CERTIFICATE OF COMPLIANCE Project Name: CENTRAL AVE Calculation Description: Calculation Date/Time: 2020-03-05T21:21:31-08:00 Input File Name: CENTRAL AVE_03.05.20.ribd19 (Page 14 of 14) Scott John Davis

Company: ATSTUDIO 03/05/2020 Address: PO Box 31017 Gty/State/Zip: Las Angeles, CA 90031 RESPONSIBLE PERSON'S DECLARAT posibality for the busing design identified on this Centificate of Compliance.
In Centificate of Confidence of Confidence of the Colfornia Code of Repulsions,
the Colfornia Code of Repulsions are discussed in the Information provided on other applicable compliance documents, worthwest, Responsible Designer Scott John Davis besponitte Designer Signature: Scott John Davis

NOTICE: This certificate has been generated by California Energy Registry, Inc. ("Cal Energy") using information uploaded by third parties not affiliated or related to Cal Energy. Therefore, Cal Energy is not responsible for, and cannot guarantee,

Registration Number: 420-P010027159A-000-000-000000-0000

City/State/Zip: Los Angeles, CA 90031

Registration Date/Time: 03/05/2020 21:30

(562) 715-1535

HERS Provider: Cal Energy

gigante AG

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

CLIENT LYNN JACKSON

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA, CA 95010

STREETER GROUP, INC. 2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

N/A

GENERAL CONTRACTOR

LIC#

LEGEND

(E) TO REMAIN

(E) DEMO / TO BE REMOVED (TBR)

(N) CONSTRUCTION

(E) NOT IN CONTRACT (NIC)

PROJECT

CENTRAL 216 CENTRAL AVE. CAPITOLA, CA 95010

THESE DOCUMENTS ARE INSTRUMENTS OF SERVICE AND AS SUCH REBARK THE MESSAGE AND AS SUCH AS AS

CEC

SHEET NUMBER A700.2



2019 Low-Rise Residential Mandatory Measures Summary

HOTE: Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach

| Building Envelop | e Measures: |
|------------------|--|
| § 110.6(a)1: | Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283 or AAMA-WDMA/CSA 1011.5, 2/A440-2011.* |
| § 110.6(a)5: | Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 10-111(a). |
| § 110.6(b): | Field fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be caulked and/or weather-stripped." |
| § 110.7: | Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather stripped. |
| § 110.8(a): | Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS). |
| § 110.8(g): | Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g). |
| § 110.8(i): | Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8() and be labeled per §10-113 when the installation of a cool roof is specified on the CFTR. |
| § 110.8(j): | Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs |
| § 150.0(a): | Ceiling and Raffer Roof Insulation. Minimum R-22 insulation is wood-have ceiling or he weighted average U-factor must not acceed 0.004. Minimum R-10 or explicing deverage U-factor of 0.004 or less in a little roof all elation, his face cost doors must have permanently satisfactor insulation sang activative or metabrical factories. The after cost asset must be galaxied by prevent a stakepage first lated on must be installed in must be insulated in must be installed i |
| § 150.0(b): | Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value. |
| § 150.0(c): | Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or have a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.07 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Missorry walls must make 12x8 to 10.4 or R: |
| § 150.0(d): | Raised-floor Insulation, Minimum R-19 insulation in raised wood framed floor or 0,037 maximum U-factor." |
| § 150.0(f): | Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 2,0 percent; have a water vapor permisence no greater than 2,0 permiper inch, the producted from physical damage and UV light determinant, and, when installed as part of a hearted data from rend the requirements of § 110.8(g). |
| § 150.0(g)1: | Vapor Retarder. In climate zones 1 through 16, the earth floor of univented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl space for buildings complying with the exception to § 150 0(d). |
| § 150,0(g)2: | Vapor Retarder. In climate zones 14 and 15, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation. |
| § 150.0(q): | Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.58; or the weighted average U-factor of all fenestration must not exceed 0.58. |
| Fireplaces, Deco | rative Gas Appliances, and Gas Log Measures: |
| § 110.5(e) | Pilot Light. Continuously burning pilot lights are not allowed for indoor and cutdoor fireplaces. |
| § 150.0(e)1: | Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox. |
| § 150.0(e)2: | Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device." |
| § 150.0(e)3: | Flue Damper, Masoniy or factory-built fireplaces must have a flue damper with a readily accessible control." |
| Space Condition | ing, Water Heating, and Plumbing System Measures: |
| § 110.0-§ 110.3; | Certification. Heating, ventilation and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission. |
| § 110.2(a): | HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-K." |
| § 110.2(b): | Controls for Heat Pumps with Supplementary Bectric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating jou due so the met by the heat pump alenue, and in which the sout on temperature for compression heating is higher than the cut-of temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature that supplementary heating, and the cut-off temperature for supplementary heating. |
| § 110.2(c): | Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat." |
| § 110.3(c)4: | Water Heating Recirculation Loops Serving Multiple Dwelling Units. Water heating recirculation loops serving multiple dwelling units must meet the air refesse valve, backflow prevention, pump priming, pump isolation valve, and recirculation loop connection requirements of § 110.3(c)4. |
| § 110.3(c)6; | Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed. |
| § 110.5: | Pilot Lights. Confinuously burning pilot lights are prohibited for natural gas; fan-type central furnaces; household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Blu per hour); and pool and spa heaters. |
| § 150.0(h)1: | Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manuals: or the ACCA Manual I surgar design conditions seconder in § 190 (In)(2). |



| Requirements f | or Ventilation and Indoor Air Quality: |
|----------------|---|
| § 150.0(o)1: | Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(o)1. |
| § 150.0(a)1C: | Single Family Detached Dwelling Units. Single family detached dwelling units, and attached dwelling units not sharing ceilings or floors with other dwelling units, outgoible spaces, public garages, or commercial spaces must have mechanical ventilation arriver provided at rates determined by ASHRAE 62.2 Sections 4.1.1 and 4.12 and as specified in § 150,0(o)10. |
| § 150.0(a)1E: | Multimity Attached Dwelling Unids. Multilismy stached oweling urbs must have mechanical weitilation and/or provided at letter in accordance with Equation 150-0.3 earlies be either ablanced system or continuous supply or continuous exhaust system in the balanced system is not used, all units in the building must use he same system type and the develop-unit envelope lestage must be s 0.3 CPM at 0.9 by (2 inch water) prosume fould developing unit envelope such ce mean and verified in accordance with Reference Residential Approxis RASA. |
| § 150.0(o)1F: | Multifamily Building Central Ventilation Systems. Central ventilation systems that serve multiple dwelling units must be belanced to provide ventilation articles for each dwelling unit served at a rate equal to or greater than the rate spechod by Equation 150.0B. All unit airfusions must be within 20 percent of the unit with the lowest articles used so it relates to the individual units' minimum required and/ow rate needed for compliance. |
| § 150.0(o)1G: | Kitchen Range Hoods, Kitchen range hoods must be rated for sound in accordance with Section 7.2 of ASHRAE 62.2. |
| § 150.0(o)2: | Flold Verification and Diagnostic Teeting. Dwelling unt ventilation arribor must be verified in accordance with Reference Residential Appands. RA3.7. A kitchen range hood must be verified in accordance with Reference Residential Appendix RA3.7.4.3 to confirm it is rated by FMV to comply with the airflow rates and sound requirements as specified in Section 5 and 7.2 of ASHPAE 62.2. |
| Pool and Spa S | ystems and Equipment Measures: |
| § 110.4(a): | Certification by Mendificuriers. Any pool or say heating system or equipment must be certified by have all of the following: a thermal efficiency that complies with the Appliance Efficiency Regulations are nord switch mounted coulside of the heater that allows shalling off the heater without adjusting the thermostal setting; a permanent weather-proof pilate or card with operating instructions; and must not use electric resistance heating. |
| § 110.4(b)1: | Piping. Any pool or spa heating system or equipment must be installed with at least 36 inches of pipe between the filter and the heater, or dedicated suction and return lines, or built-in or built-up connections to allow for future solar heating. |
| § 110.4(b)/2: | Covers. Outdoor pools or spas that have a heat pump or gas heater must have a cover. |
| § 110.4(b)3: | Directional Inlets and Time Switches for Pools. Pools must have directional inlets that adequately mix the pool water, and a time switch tha will allow all pumps to be set or programmed to run only during off-peak electric demand periods. |
| § 110.5: | Pilot Light. Natural gas pool and spa heaters must not have a continuously burning pilot light. |
| § 150.0(p): | Pool Systems and Equipment Installation. Residential pool systems or equipment must meet the specified requirements for pump sizing, ficerate, piping, filters, and valves." |
| Lighting Measu | res: |
| § 110.9: | Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9. |
| § 150.0(k)1A: | Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A. |
| § 150.0(k)1B: | Blank Electrical Boxes. The number of electrical boxes that are more than five feet above the firrished floor and do not contain a luminaire or other doxice must be no greater than the number of bedrooms. These electrical boxes must be served by a dimmer, vacancy sensor control, or an speed control. |
| § 150.0(k)1C: | Recessed Downlight Luminaires in Ceilings. Luminaires recessed into ceilings must meet all of the requirements for; insulation contact (IC) labeling, air leakage, sealing, maintenance, and socket and light source as described in § 150.0(k) IC. |
| § 150.0(k)1D: | Electronic Ballasts for Fluorescent Lamps. Ballasts for fluorescent lamps rated 13 walts or greater must be electronic and must have an |
| § 150.0(k)1E: | output frequency no less than 20 H±z. Might Lights, Step Lights, and Path Lights. Night lights, step lights and path lights are not required to comply with Table 150.0-A or be controlled by vacancy sensors provided they are raised to consume no more than 5 walts of power and emit no more than 150 lumens. |
| § 150.0(k)1F: | commoned by vacancy serious provided inly are raised to consume no more than 5 wasts or power and ente no more than 150 luments. Lighting Integral to Exhaust Fans, Lighting integral to exhaust fans (except when installed by the manufacturer in kitchen exhaust hoods) must meet the applicable requirements of § 150.0(k)." |
| § 150.0(k)1G: | Screw based luminaires, Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA8." |
| § 150,0(k)1H | Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JAB elevated temperature requirements, including marking requirements, must not be installed in enclosed or recessed luminaires. |
| § 150.0(k)11: | Light Sources in Drawers, Cabinets, and Linen Closets. Light sources internal to drawers, cabinety or inen closets are not required to comply with Table 150.0-A or be controlled by rearny sensors provided that they are raised to consume no more than 5 walls of posse, emit rome than 150 utilities, and are equipped with controls that subaminatedly usen the lighting off when the distance, cabinet or linen closed is closed. |
| § 150.0(k)2A: | Interior Switches and Controls. All forward phase out dimmers used with LED light sources must comply with NEMA SSL 7A. |
| § 150.0(k)2B: | Interior Switches and Controls. Exhaust fans must be controlled separately from lighting systems." |
| § 150.0(k)2C: | Interior Switches and Controls. Lighting must have readily accessible wall-mounted controls that allow the lighting to be manually turned ON and OFF.* |
| § 150.0(k)2D: | Interior Switches and Controls. Controls and equipment must be installed in accordance with manufacturer's instructions. |
| § 150.0(k)2E: | Interior Switches and Controls. Controls must not bypass a dimmer, occupant sensor, or vacancy sensor function if the control is installed to comply with § 150.0(k). |
| § 150.0(k)2F: | Interior Switches and Controls. Lighting controls must comply with the applicable requirements of § 110.9. |



2019 Low-Rise Residential Mandatory Measures Summary

| § 150.0(h)3A: | Clearances. Air conditioner and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer |
|----------------|--|
| § 150.0(h)3B: | Liquid Line Drier. Air conditioners and heal pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions. |
| § 150.0(j)1; | Storage Tank Insulation. Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, must have a minimum of R-12 external insulation or R-18 internal insulation where the internal insulation R-value is indicated on the exterior of the tank. |
| § 150.0(j)2A; | Water Plaing, Soler Water-hearing System Plains, and Space Conditioning System Line Institution. All correction for other pringing manual present control of the condition of the System Plains, and addition. He following proceedings condition mental brain manual facilities of done in the or a minimum installation. Nearly office of cells where pipes from the abstragative, all have pringing with an ormal distance required for principle with an other cells and the principle with an ormal distance required for principle with a commod distance required for principle with a commod distance of the principle with a princip |
| § 150.0(j)3: | Insulation Protection. Priori insulation must be protected from damage, including fact due to surtigit, moisture, expirent maintransrea, amend as recipient by Section 120.3(b), insulation exposed to weather must be water tentant and protected from UVI tight in pathwais begoes, insulation covering childer water priori and infragrant suction pring located cutsials the conditioned space must include, or be protected by a, class in or Class I and Cla |
| § 150.0(n)1: | Gas or Propose Water Heating Systems. Systems using soor orposers water heaters to some mixtured desting and must include all for biological, Advancation of Septimen Systems using soor orposers water heaters to some mixtured desting and the Septimen Systems of Septimen Systems of Septimen Systems of Septimen Systems of Septimen Septimen Systems of Septimen Septimens Septime |
| § 150.0(n)2: | Recirculating Loops. Recirculating loops serving multiple dwelling units must meet the requirements of § 110.3(c)5. |
| § 150.0(n)3: | Solar Water-healing Systems. Solar water-healing systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R8T), or by a listing agency that is approved by the Executive Director. |
| Ducts and Fans | |
| § 110.8(d)3: | Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC). If a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement. |
| § 150.0(m)1: | ONC Compliance. All an electrolistics system data and plannars must meet the sequencement of the CASC, \$55, 501, 502, 503, 504, 500, 500, 500, 500, 500, 500, 500 |
| § 150.0(m)2: | Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connectors, and closure, junts and seams of duct systems and their components must not be sealed with cloth back nubber adhesive duct tapes unless such tape is used in commission with maskin and draw banks. |
| § 150.0(m)3: | Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for; pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction. |
| § 150.0(m)7: | Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers. |
| § 150.0(m)8: | Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion intel and outlet air openings and elevator shaft vents. |
| § 150.0(m)9: | Protection of Insulation. Insulation must be protected from damage, sunlight, moisture, equipment maintenance, and wind. Insulation expose to weather must be suitable for outdoor service. For example, protected by atuminum, sheat metal, pointed carrivas, or plastic over. In particular forum insulation must be protected as above or painted with a coating that is water relational and provides shielding from sour radiation. |
| § 150.0(m)10: | Porous Inner Core Flex Duct. Porous inner core flex ducts must have a non-porous layer between the inner core and outer vapor berrier. |
| § 150.0(m)11: | Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiedle space, the duct must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with § 150 (Jim) 11 and Reference Residential Appendix RAS. |
| § 150.0(m)12. | Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of verifiation systems must have MERV 13 or equivalent filters. Filters to repair conditioning systems must have a but on the depth or can be one in the facility of stated per Equation 150.0-A. Pressure does and labeling must meet the requirements in §150.0(m) IZ. Filters must be accessible for regular service.* |
| § 150.0(m)13: | Space Conditioning System Arriver Natur and Far Efficiery, Space conditioning system that use duch to supply cooling must have a look for the placement of a static pressure produ, or a permanenty installed static pressure prote to the supply plenum, Afficer must be a 250 CPAN per land contract cooling capacity, and an an in-handing unit the referency 5 G. System year CPAN for gas furnises and 5 G. System year. CPAN for a chress. Small duck lays interest must provide an auflow 2 250 CPAN for this or mornist cooling capacity, and an an invanified unit mel capacity of statistic profit CPAN services. And in the class of year that the CPAN service for the contract contract services Received Reported Resident Agrantises. Resident Services Reported Resident Services Resident Resident Resident Services Resident Res |



2019 Low-Rise Residential Mandatory Measures Summary

| All Property lies | |
|-------------------|--|
| § 150.0(k)2G: | Interior Switches and Controls. An energy management control system (EMCS) may be used to comply with control requirements if it: provides functionally of the specified control according to § 1103; meets the installation Certificate requirements of § 130.4; meets the EMCS requirements of \$130.04; and meets at other requirements in £150.042. |
| § 150.0(k)2H: | Interior Switches and Controls. A multiscene programmable controller may be used to comply with dimmer requirements in § 150.0(k) if it provides the functionality of a dimmer according to § 110.9, and complies with all other applicable requirements in § 150.0(k)2. |
| § 150.0(k)21: | Interior Switches and Controls. In bathrooms, garages, Isundry rooms, and utility rooms, at least one luminaire in each of these spaces must be controlled by an occupant sensor or a vacancy sensor providing automatic-off functionality. If an occupant sensor is installed, it must be initially configured to manual-on operation using the manual control required under Section 150 (x)(2)C. |
| § 150.0(k)2J: | Interior Switches and Controls. Luminaires that are or contain light sources that meet Reference Joint Appendix JAB requirements for dimming, and that are not controlled by occupancy or vacancy sensors, must have dimming controls." |
| § 150.0(k)2K | Interior Switches and Controls. Under cabinet lighting must be controlled separately from ceiling-installed lighting systems. |
| § 150.0(k)3A: | Residential Outdoor Lighting. For single-family residential buildings, outdoor lighting permanently mounted to a residential building, or to other buildings on the same lof, must meet the requirement in time § 150(1)(34) (OR and OFF switch) and the requirements in alther \$150(1)(34) (OR and OFF switch) and the time switch are mades sensor or automate time switch control or § 150(1)(34) (enteronnetic time slock), or an EMCS. |
| § 150.0(k)3B: | Residential Outdoor Lighting, For low-rise residential buildings with four or more dwelling units, outdoor lighting for private patios, enhances, balconies, and porches; and residential parking lots and carports with less than eight vehicles per site must comply with either § 150.0ki3A or with the applicable requirements in Sections 110.9, 130.0, 130.2, 130.4, 140.7 and 141.0. |
| § 150.0(k)3C: | Residential Outdoor Lighting. For low-rise residential buildings with four or more dwelling units, any outdoor lighting for residential parking lots or carports with a lotal of eight or more whichies per ale and any outdoor lighting not regulated by § 150.0(x)3B or § 150.0(x)3D must comply with the applicable requirements in Sections 110.9, 1300, 1302, 1304, 140.7 and 141.0. |
| § 150.0(k)4: | Internally illuminated address signs, internally illuminated address signs must comply with § 140.8; or must consume no more than 5 watts of power as determined according to § 130.0(c). |
| § 150.0(k)6: | Residential Garages for Eight or More Vehicles. Lighting for residential parking garages for eight or more vehicles must comply with the applicable requirements for nonresidential garages in Sections 110.9, 130.0, 130.1, 130.4, 140.6, and 141.0. |
| § 150,0(k)6A: | Interior Common Areas of Low-rise Multifamily Residential Buildings. In a low-rise multifamily residential building where the total interior common area in a single building equals 20 percent or less of the floor area, permanently installed lighting for the interior common areas in that building must be comply with Table 150 A and be controlled by an occupant sensor. |
| § 150,0(k)6B: | Interior Common Areas of Lour-in Auditionity Residential Buildings. In a tow-time unfulfamily residential building where the total interior common sees in since building equals more than 20 percent of the floor area, permanently installed lighting for the interior common areas in that building must. 1. Corphy with the applicable requirements in Sections 1105, 1100, 1131, 140 and 1410, and 4110 and 61 and |
| Solar Ready Bui | Idinas |
| § 110.10(a)1: | Single Family Residences. Single family residences located in subdivisions with 10 or more single family residences and where the application for a tentitrie subdivision map for the residences has been deemed complete and approved by the enforcement agency, which do not have a photorelatio system installed, must comply with the requirement of § 110 (bill) through § 110.10 (bill) in the property of the propert |
| § 110.10(a)2: | Low-rise Multifamily Buildings. Low-rise multi-family buildings that do not have a photovoltaic system installed must comply with the requirements of § 110.10(b) through § 110.10(d). |
| § 110.10(b)1: | Minimum Sinut Zoou Area. The solar zoon must have a nomenum ball area on described below. The solar zoon must comply with access, and preference of the complete of the comple |
| § 110,10(b)2: | Azimuth. All sections of the solar zone located on steep-sloped roofs must be oriented between 90 degrees and 300 degrees of true north. |
| § 110.10(b)3A: | Shading. The soler zone must not contain any obstructions, including but not limited to: vents, chimneys, architectural features, and roof mounted equipment. |
| § 110.10(b)3B: | Shading. Any obstruction located on the roof or any other part of the building that projects above a solar zone must be located at least twice the distance, measured in the horizontal plane, of the height difference between the highest point of the obstruction and the horizontal projection of the nearest princ of the solar zone, measured in the vertical plane. |
| § 110.10(b)4: | Structural Design Loads on Construction Documents. For areas of the roof designated as a solar zone, the structural design loads for roof dead load and roof live load must be clearly indicated on the construction documents. |
| § 110.10(c): | Interconnection Pathways. The construction documents must indicate: a location reserved for invertiers and metering equipment and a pathway reserved for invertiers and metering equipment and a pathway reserved for contain of conduct from the solar zone to the point of interconnection with the electrical service; and for single family reserved for contain basis relating systems, and provided the provided of the solar point of the water-besting system. |
| § 110.10(d): | Documentation. A copy of the construction documents or a comparable document indicating the information from § 110.10(b) through § 110.10(c) must be provided to the occupant. |
| § 110.10(e)1: | Main Electrical Service Panel. The main electrical service panel must have a minimum busbar rating of 200 amps. |
| § 110.10(e)2: | Main Electrical Service Panel. The main electrical service panel must have a reserved space to allow for the installation of a double pole circuit breaker for a future solar electric installation. The reserved space must be permanently marked as "For Future Solar Electric". |

gigante AG

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

T 323 843 2201 F 323 276 0988

CLIENT LYNN JACKSON

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA, CA 95010

STREETER GROUP, INC. 2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

N/A

GENERAL CONTRACTOR

LIC#

LEGEND (E) TO REMAIN

(E) DEMO / TO BE REMOVED (TBR)

PROJECT

CENTRAL 216 CENTRAL AVE. CAPITOLA, CA 95010

THESE DOCUMENTS ARE INSTRUMENTS OF SERVICE AND AS SUCH REBARK THE MESSAGE AND AS SUCH AS AS

MANDATORY MEASURES

SHEET NUMBER

A702



SECTION 10 31 16

MANUFACTURED FIREPLACES
Display hidden notes to specifier. (Don't know how? Click Here)

Copyright 2004 - 2017 ARCAT, Inc. - All rights reserved

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Manufactured Gas Fireplaces.

1.2 RELATED SECTIONS

- A. Section 04 22 00.16 Surface-Bonded Concrete Unit Masonry.
- B. Section 06 10 00 - Rough Carpentry.
- C. Section 09 29 00 Gypsum Board.
- D. Section 22 10 00 Plumbing Piping.
- E. Section 26 05 00 Common Work Results for Electrical

1.3 REFERENCES

- A. ANSI Z21.44 Gas-Fired Gravity and Fan Type Direct Vent Wall Furnaces.
- B. ANSI Z21.88 Vented Gas Fireplace Heaters.
- C. Z21.50b Vented Gas Fireplaces.
- D. ANSI Z223.1 National Fuel Gas Code.
- E. CSA 2.22b Vented Gas Fireplaces.
- CSA 2.33 Vented Gas Fireplace Heaters.
- CAN/ULC S610 Factory-Built Fireplaces.
- UL 127 Standard for Factory-Built Fireplaces.
- UL 907 Standard for Fireplace Accessories
- J. UL 1482 Standard for Safety for Solid-Fuel Type Room Heaters.

1.4 SUBMITTALS

A. Submit under provisions of Section 01 30 00 - Administrative Requirements.

10 31 00-1

Product Data: Manufacturer's data sheets on each product to be used, including:
 Preparation instructions and recommendations.
 Storage and handling requirements and recommendations.

Installation methods.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Store products in manufacturer's unopened packaging until ready for installation.

B. Store products in covered area, well protected from weather.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- Acceptable Manufacturer: Fireplace X a division of Travis Industries; 12521 Harbour Reach Drive, Mukilteo, WA 98275. ASD. Tel. Toll Free: (800) 654-1177. Tel: (425) 609-2500. Fax: (425) 609-2781. Email: request info (stoveinfo@travis-inc.com). Web
- Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 Product Requirements.

2.2 GAS BURNING MANUFACTURED FIREPLACES

- A. General: Travis Industries Fireplace Xtrordinair gas burning manufactured fireplaces. man. Traws incustries Fireplace Xtrordinair gas burning manufa Comply with applicable building codes. Comply with ANSI Z21.88/CSA 2.33 or Z21.50b/CSA 2.22b. WHI listed.
- Model Bed and Breakfast GSR2: Top or Rear vent, portrait style gas fireplace. Ideal for small
 - whole bed and bleanast Gone. Tup of near veril, portial syre gas inepace, local of sine light locations such as bedrooms and baths. No. 98500238.

 1. Framing Dimensions: 20-1/4 inches (514 mm) wide by 34-1/4 inches (869 mm) high by 12-3/4 inches (324 mm) deep when installed as a Rear Vent and 13-1/2 inches (335 mm) deep when installed as a Top Vent.
 - Vent: 8 inches (203 mm) outer diameter. Use Simpson Dura-Vent only.
 - Provided Ember-Eyre hurner
 - Heater Input: Up to 16,500 BTU/hr with natural gas or propane. Faces, Bed & Breakfast:
 a. Artisan, Charcoal No. 95700169.

 - Interiors: Brick Beehive No. 98500669.

 - Accessories: a. Vent, 21RV No. 98900166.
- C. Model 564 Space Saver Clean Face GSR2: Direct Vent. No. 98500251.
 - Framing Dimensions: 38-11-4 inches (972 mm) wide by 36-3/4 inches (934 mm) high by 19-1/8 inches (486 mm) deep.

 Vent: 8 inches (203 mm) outer diameter. Use Simpson Dura-Vent with horizontal or vertical Duravent terminations only.

 - Provide Two Stage Pan Burner.
 - Heater Input: Up to 20,500 BTU/hr with natural gas or propane.

 - Tile Trim:
 a. Flat, 2 inch, Black No. 95900370.
 - Interior Style:
 - Fireback Black Enamel No. 96100203.
 - Accessories:

Flue Adapter, DV No. 98900165. GS Remote Control No. 99300690 (NG).

PART 3 EXECUTION

3.1 EXAMINATION

- Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Verify proper power supply and fuel source are available.

PREPARATION

- Clean surfaces thoroughly prior to installation.
- Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- Install in accordance with manufacturer's instructions, ANSI Z21.44 and the requirements of
- B. Use manufacturer's guidelines for minimum clearances to combustibles, walls, and finishes.
- C. Anchor all components firmly in position for long life under hard use.
- Upon completion of installation, visually inspect all exposed surfaces. Touch up scratches and abrasions with touch up paint recommended by the manufacturer; make imperfections invisible to the unaided eye from a distance of 5 feet (1.5 m).

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION

10 31 00-3 10 31 00-2

gigante AG

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

CLIENT

LYNN JACKSON

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA, CA

STREETER GROUP INC. 2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

N/A

GENERAL CONTRACTOR

LIC#

LEGEND (E) TO REMAIN

(E) DEMO / TO BE DEMOVED (TBD)

(N) CONSTRUCTION

(E) NOT IN CONTRACT (NIC)

PROJECT

CENTRAL 216 CENTRAL AVE. CAPITOLA, CA

THESE DOCUMENTS ARE INSTRUMENTS OF ERRORCE AND AS SUCH REAMAN THE WATER OF A SUCH REAMAN THE WATER OF THE SUCK AND AS SUCH REAMAN THE WATER OF THE SUCK AND AS A SUCK AND AS A SUCK AS A S

PRODUCT SPECS

SHEET NUMBER A800

CertainTeed

Technical Data Sheet

INCOLUTE THE FORMATION
LEADING INTERPRETATION AND THE PROPERTY OF THE PROPERTY



In the Northwest Region Landmark PRO (AR) is double-branded as Landmark PRO/Architect 80 (AR).

Landmark algae-resistant (AR) shingles are algae-resistant and help protect against dark or black discoloration, sometimes called staining or streaking, caused by blue-green algae. AR shingles are not available in all regions.

Colors: Please refer to the product brochure or CertainTeed website for the colors available in your

require administrational internsylvinis. In areas where fulling soling earliers and value for back-up or was CertainTeed WinterGuard® Waterproofing Shingle Underlayment, or its equivalent, according to application instructions provided with the product and on the shingle package.

Product Composition: Landmark Series shingles are composed of a fiber glass mat base. Ceramic-coated mineral granules are tightly embedded in carefully refined, water-resistant asphalt. Two pieces of the shingle are firmly laminated together in a special, tough asphaltic cement. All Landmark shingles have self-sealing additions target.

Applicable Standard ASTM D3018 Type I ASTM D3462

ASTM E108 Class A Fire Resistance ASTM D3161 Class F Wind Resistance ASTM D7158 Class H Wind Resistance UL 790 Class A Fire Resistance ICC-ES ESR-1389 and ESR-3537 CSA Standard A123.5 (Regional) Miami-Dade Product Control Approv Florida Product Approval #FL5444 Meets TDI Windstorm Requirements

| (and Al |
|----------|
| 219 to 2 |
| 13 1/4" |
| 66 |
| 5 5/8" |
| |

(and AR) 240 to 267 lb ** 13 1/4" x 38 3/4" (and AR) 300 lb 13 1/4" x 38 3/4"

PART 2 PRODUCTS 2.1 MANUFACTURERS

> stable Manufacturer: Provide products manufactured by the CertainTeed oration. Contact Sales Support Group, P.O. Box 860, Valley Force, PA 19482. Toll Free 800-233-8990

Requests for substitutions will be considered in accordance with provisions of Section 01

2.2 ASPHALT FIBERGLASS SHINGLES

- A. CertainTeed Landmark: Conforming to ASTM D 3018 Type I Self-Sealing, UL Certification of ASTM D 3462, ASTM D 3161/UL997 110-mph Wind Resistance and UL Class A Fire Resistance, glass fiber mat base, ceramically colored/UV resistant mineral surface granules across entire face of shingle; algae-resistance; two piece laminate shingle.
- Wind warranty upgrade These products are warranted to resist blow-off due to wind velocities, including gusts, up to a maximum of 130 miles per hour during the first lifteen (15) years, provided all of the following conditions are
- met:

 1. Certain Teed shingles are not applied over existing roof shingles (notovers are not permitted).

 2. Certain Teed specified corresponding hip and ridge accessory products
 are installed as cap shingles (Shadow Miggle**, Cedar Crest**, Mountain
 3. Cedar Crest**, Mountain
 3. Cedar Crest**, Mountain
 4. Cedar Crest**, Mountain
 5. Cedar Crest**, Mountain
 6. Cedar Cr
- Riage* (6, IR).

 3. Certain Teed specified corresponding starter shingles are installed atong the not cleaves and rakes (Swithstin** and High-Performance Starter). The not cleaves and rakes (Swithstin** and High-Performance Starter). The control of the starter is requirement of applying tables to the control of the starter is requirement of applying tables to the control of the starter is requirement to the control of the
- code.)
 Weight: 229 / 240 pounds per square (dependent on manufacturing location)
 (100 enurge feet)
- Color:
 Color: As selected by Architect from manufacturer's standards

2.3 SHEET MATERIALS

A. Eaves Protection: CertainTeed "WinterGuard"; ASTM D1970 sheet barrier of self-adhering rubberized asphalt membrane shingle underlayment having internal reinforcement and "spit" back plastic release film; provide material warranty equal in duration to that of shingles being applied.

SECTION 07 31 13 Display hidden notes to specifier by using "Tools"/"Options"/"View"/"Hidden Text"

ASPHALT SHINGLES

PART 1 GENERAL

1.1 SECTION INCLUDES

- Granule surfaced asphalt shingle roofing.
 Moisture shedding underlayment, eaves, valley and ridge protection C. Associated metal flashing
- 1.2 RELATED SECTIONS

 - As Section 08 10:0 Reporty Carpentry: Plywood Rood Sheathing
 A. Section 07:8 00 Vayor Returders
 D. Section 07:8 00 Vayor Returders
 D. Section 07:8 00 Vayor Returders
 D. Section 07:8 00 Floating and Steet Meal.
 C. Section 08:0 00 Unit Svignita
 F. Section 07:0 00 Unit Svignita
 F. Section 07:0 00 Unit Svignita
 F. Section 07:0 00 Roofing and Steing Parels: Siding and Roofing
 J. Section 07:0 00 Roofing and Siding Parels: Siding and Roofing
 J. Section 07:0 00 Soon Guards

1.3 REFERENCES

- ASTM A 653/A 653M Standard Specification for Steel Sheets, Zinc-Coated (Galvannized) or Zinc-Iron-Alloy-Coated (Galvanneided) by the Hot-Dip Process
 ASTM B 209 Standard Specification for Aluminum and Aluminum-Alloy Sheet
- ASTM B 370 Standard Specification for Copper Sheet and Strip for Building
- Construction.

 ASTM D 225 Standard Specification for Asphalt Shingles (Organic Felt)

 Surfaced with Mineral Granules.
- ASTM D 226 Standard Specification for Asphalt-Saturated Organic Felt Used
- in Roofing and Waterproofing.

 ASTM D 1970 Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials used as Steep Roofing Undersyment for ice Dam Protection.

 ASTM D 3018 – Standard Specification for Class A Shingles Surfaced with
- ASTM D 3161 Standard Test Method for Wind Resistance of Asphalt
- Shingles (Fan-Induced Method).
 ASTM D 3462 Standard Specification for Asphalt Shingles Made from Glass
 Felt and Suffaced with Mineral Granules.
 ASTM D 4586 Standard Specification for Asphalt Roof Cement, Asbestos-
- Free.
 ASTM D-4869 Standard Specification for Asphalt-Saturated Organic Felt Shingle Underlayment Used in Roofing.
 ASTM D 6757 Standard Specification for Inorganic Underlayment for Use

073113-1

2.6 FLASHING FARRICATION

- Form flashing to profiles indicated on Drawings and to protect roofing materials from physical damage and shed water.
- C. Form sections square and accurate to profile, in maximum possible lengths free from distortion or defects detrimental to appearance or performance.

2.7 ATTIC VENTILATION

telete any attic ventilation products from the listing below that are not architect / specifier

- A. CertainTeed Rolled Ridge Vent (28 lf) Filtered or Unfiltered
- Shingle over low profile ridge vent designed with external baffle to deflect wind and weather over the vent. The external baffle creates low pressure over the vent openings to "pull" air from the attic.
 Internal weather filter helps protect the attic from wind driven rain, snow, dust and insects.
- BROWN, QUEST STATE INTEREST.

 Each vent will provide 12 sq inches of net free area per lineal foot.

 Accommodates roof pitches of 3/12 to 20/12.

 The vent carries an approval report with the Texas Department of

- Insurance Limited Lifetime Warranty and 5-year Sure Start Protection
- B. CertainTeed Ridge Vent (4 If) Filtered or Unfiltered, 9 in and 12 in. width.

- Ningle over right even the sign of with an external ballie to deflect wind and weather over the vent. The external ballie to deflect wind and weather over the vent. The external ballier creates low pressure over the vent operaging to just all risk not he actio. Internal weather filter helps protect the attle from wind offeren rain, telesten weather filter helps protect the attle from wind offeren rain. It was not to be a first the protect the attle from wind offeren rain. It was not provided to the provided of the protect of the provided of the protect of

- Designed for homes with little or no intake ventilation in the soffit area. Each vent has 9 sq inches of net free area per linear foot. Minimum 3/12 coof pitch with no maximum. Lifetime Limited Warranty; 5-Year SureStart™ Protection.
- 1. EXECUTION
 - 3.1 EXAMINATION

with Steep Slope Roofing Products.

ASTM D7158 – Standard Test Method for Wind Resistance of Asphalt Shingles (Uplift Foreistance Method)

ASTM E 108 – Standard Test Methods for Fire Test of Roof Coverings

ASTM G 21 — Determining Resistance of Synthetic Polymers to Fungi

14 14 SURMITTALS

- Submit under provisions of Section 01 30 00. Product Data: Provide manufacture's princip product information indicating material distribution of the providence form an independent laboratory indicating that the aughted the legislass shingles made in normal production meet or exceed the requirements of the blooking.
- 1. ASTM E 108/UL 790 Class A Fire Resistance ASTM D 3161/D 7158/UL 997 Wind Resistance
 ASTM D 3462
- Shop Drawings: Indicate specially configured metal flashing, jointing methods and locations, fastening methods and locations and installation details as required by project conditions indicated.

- Installer Minimum Qualifications: Installer shall be licensed or otherwise authorized by all federal, state and local authorities to install all products specified in this section. Installer shall perform work in accordance with NRCA Roofing and Waterproofing Manual. Work shall be acceptable to the asphalt shringin manufacturer.
- Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.

 1. Finish areas designated by architect.

 2. Do not proceed with remaining work until workmanship, color and pattern are approved by Architect.
- are approved by Architect. Rework Model of Remork Model are as required to produce acceptable work. re-installation Meeting Conduct a pre-installation meeting at the site prior to ommencing work of this section: Require attendance of entitles directly oncerned with roof installation. Agenda will include: Installation instolocular and analysis of the result of the product of t

- Safely procedures
 Coordination with installation of other work
 Coordination with installation of other work
 Coordination with installation of section 0.17.00
 Estat Material Frumsh under provision of section 0.17.00
 Provide squares feet squares mit of extra shingles of each color specification and approval of substates and penetrations through root.

 Other lams related so successful execution of work.
 Product Compliance Verify that products conform with all requirements specified by local Anthroy Harvay Janksdocking (AU).

073113-2

- A. Verify existing site conditions under provisions of Section 01 70 00.
- Verify that roof penetrations and plumbing stacks are in place and flashed to deck surfaces.
- C. Verify deck surfaces are dry and free of ridges, warps or voids.
- 3.2 ROOF DECK PREPARATION

 - Broom clean deck surfaces under eave protection and underlayment prior to their application.
- 3.3 INSTALLATION EAVE ICE DAM PROTECTION
- Place eave edge and gable metal edge flashing tight with fascia boards.
 Weather-lap joints 2 inches (50mm). Secure flange with nails spaced 8 inches (200 mm) on center.
- Apply CertainTeed "WinterGuard" Waterproofing Shingle Underlayment as eave protection in accordance with manufacturer's instructions.

IOTE** Change dimensions below to 48 inches (1220 mm) or greater for low slope roofs or

- C. Extend eave protection membrane minimum 24 inches (640 mm) up slope beyond interior face of exterior wall.

3.4 INSTALLATION - PROTECTIVE UNDERLAYMENT

NOTE** Delete first three paragraphs below if all roof slopes are greater than 4:12 Otherwise elect either complete WinterGuard underlayment. Roofers Select, Diamond Deck or D4889

- selet witherstallar undersignent, Kooler's select, Liamono Lock of Deolo combination with eave loc damp probection. Roof Stopes between 2:12 and 4:12. Appl yone layer of "WinterDand" over all areas not protected by WinterCauder at eares, with end and edges weather lapped minimum of 19 inches (460 mm) Stagger end laps each consecutive layer. Mail in John Stagger end laps each consecutive layer. Mail in John Stagger end laps each consecutive layer. Mail in John Stagger end laps each consecutive
- B. Roof Slopes between 2:12 and 4:12: Apply two layers of Roofer's Select or D4889 underlayment over areas not protected my WinterGuard at eaves, with ends and edge weather-lapped 19 inches (480 mm). Slagger end laps each consecutive layer. Nail in place.
- Roof Slopes between 2:12 and 4:12 Use of Diamond Deck Synthetic Roofing Underlayment. Follow manufacturer's printed instructions for low slope application of this product. Do not use staples on this product.
- Roof Slopes 4:12 or Greater: Install one layer of asphalt felt shingle underlayment perpendicular to slope of roof and lap minimum 4 inches (100 mm) over eave protection.
- Weather-lap and seal waterlight with asphalt roofing cement items projecting through or mounted on roof. Avoid contact or solvent-based cements with WinterGuard and Diamond Deck

073113-7

D. Maintain one copy of manufacturer's application instructions on the project site

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store Products in manufacturer's unopened packaging until ready for
- C.

- mosturley within limits recommended by manufacture for opinium results. Do not install products under environment conditions outside manufacturer's limits. Take special care when applying WinterGuard Waterproofing Shingle Underlayment and shingles when ambient or wind chill temperature is below 45 degrees F/7 degrees C). Tack WinterGuard in place if it does not adhere immediately to the deck.

1.8 WARRANTY

- Manufacturer's Warranty. Furnish shingle manufacturer's warranty for the product listed below:

 1. Certain! eed Landmark: Lifetime limited warranty.
 Warranty Supplement: Provide manufacturer's supplemental warranty (Certain! red s SureStart or SureStart PLUS) to cover labor and materials the event of a material delect for the following period after completion of
- application of shingles:

 1. First Ten Years (Landmark Shingles)

 2. No SureStart or SureStart PLUS for any shingle applied to inadequately

- No Sunction of Sunchian PLUS for any string applied to insdequable, vertilization of cells.
 Westing and production (can only be provided by an Octation Teach Octation Teach Octation Teach Octation).
 1. Selfs: Oceange (Co) years in Instituted and Labor Costs for repair or a Leaforman Sunchian Costs for repair or a self-sunchian Costs for repair or replacement.
 2. Selfs: Oceange (Co) years) material and labor costs for repair or replacement.
 3. Selfs: Oceange (Co) years) material and labor costs for repair or replacement.
 3. Selfs: Oceange (Co) years) material and labor costs for repair or replacement.
- years),
 "30 years for premises not used by individual homeowners
 Warrany Transferability Clause: Make available to Owner shingle
 manufacture's standard option for transferring warranty to a new owner.
 Refer to manufacture's warranty for adjustments for commercial applications
 Provide Uggrades Wind Warranty from 110 to 130 mph on LAR shingles for
 first 15 years by complying with all manufacturers' conditions and instruction
 (see section 2.2 bit below).

073113-3

- A. Weather-lap joints minimum 2 inches (50 mm).
- Seal work projecting through or mounted on roof with asphalt roofing cement and make weather light.
- Install shingles in accordance with manufacturer's instructions for product type and application specified.
- 3.8 FIELD QUALITY CONTROL
- A. Field inspection will be performed under provisions of Section 01 45 16.
- Visual inspection of the work will be provided by Owner. If conditions are unacceptable. Owner will notify the Architect.
- 3.9 PROTECTION OF FINISHED WORK
- A. Protect finished work under provisions of Section 01 76 00.
- B. Do not permit traffic over finished roof surface.

Installation: Store and dispose of solvent-based materials and materials used with solvent based materials in accordance with requirements of Authorities Having

Deliver shingles to site in manufacturer's unopened labeled bundles. Promptly verify quantities and conditions. Immediately remove damaged products from edia.

17 17 PROJECT ENVIRONMENTAL CONDITIONS

3.5 INSTALLATION - VALLEY PROTECTION

For "closed-cut," "woven," and "open" valleys, first place one ply of WinterCuard, minimum 36 inches (910 mm) wide, centered over valleys joints minimum of 8 inches (152 mm) Follow instructions of shingle and waterproofing membrane manufacturer.

3.6 INSTALLATON - METAL FLASHING

3.7 INSTALLATION - ASPHALT SHINGLES

END OF SECTION

073113-8

PROJECT

CENTRAI

216 CENTRAL AVE. CAPITOLA, CA

THESE DOCUMENTS ARE INSTRUMENTS OF SERVICE AND AS SUCH REMAIN THE INTELLECTUAL AND PHYSICAL PROPERTY OF GIGANTE AG. THESE DOCUMENTS ARE NOT TO BE USED BY THE OWNER OF

GIGANTE AG. THESE DOCUMENTS ARE NOT TO TO THESE USED WHE DOWNERS OF DOTHESE OF THE DIVERS OF THE OWNERS OF THE OWNER OF THE COMMETTION TO THE PROJECT OF THE COMMETTION OF THIS PROJECT BY OTHER AS QUICE HAVE THE OWNER OF THE PROJECT BY OTHER AS QUICE HAVE THE OWNER OF THE OWNER OWNERS ARE INTERIOR AS QUICE HAVE THE OWNER OWNERS AND THE OWNER OWNERS AND THE OWNER OWNERS OW

EXCEPTIONS TO THE ABOVE STATEMENTS ARE ONLY ACCEPTABLE BY WRITTEN AGREEMENT

WITH GIGANTE AG

ROOF SPECIFICATION

A801

SHEET NUMBER

gigante AG

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

F 323 276 0988

LYNN JACKSON

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA, CA

GENERAL CONTRACTOR

STREETER GROUP INC.

2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

CLIENT

OWNER

95010

N/A

LIC#

LEGEND

(E) TO REMAIN

(N) CONSTRUCTION

(E) DEMO / TO BE DEMOVED (TRP)

(E) III OOI II

ISSUE

DATE

ogigante AG 2013

073113-6

073113-4

1 Malus domestica 'Gala'

2 Persea americana 'Gwen'

- 12 Jacaranda mimosifolia
- 14 Magnolia grandifolia
- 5 Brachychiton populensis

Trees

- 6 Cercis candensis 'F.P.' 7 Cornus capitata 'Mountain Moon'
- 8 Crataegus Lae.

3 Accacia cognata

4 Brugmansia x can

- 9 Eucalyptus cinerea
- 10 Euonymas europ.
- 11 Fagus sylvan. 'Purple fountain'

- 13 Leptosperum 'Dark Shadows'
- 15 Magnolia 'Butterflies'
- 16 Melaleuaca sp.
- 17 Paulownia tomentosa
- 18 Prunus salicina 'Santa Rosa'
- 19 Prunus salicina 'Shiro'
- 20 Persimmon fuyu
- 21 Pyrus callervana
- 22 Pinus sp.

Shrubs

- 10 Fuchsia paniculata
- 11 Garrya elliptica

16 Leucaperum sp

- 12 Guava chilienese
- ³ Cantua bux. 4 Cestrum auran. 13 Hebe sp
- 5 Citrus calamondin
- 14 Hypernicum fon. 'Hidicote' 6 Citrus cara cara 15 Leucodendron sp
- 7 Citrus meyer lemon
- 8 Citrus trovolia
- 9 Fuchsia sp

1 Azellia sp

2 Banksia sp.

- 17 Hibiscus syr. 18 Pittosporum ovalifolia
- 19 Paeonia Itoh sp
- 20 Pittosporum crass. var
- 21 Rosa sp.
- 22 Senecio past.
- 23 Sarcococca con.
- 24 Spiraea x van.
- 25 Viburnium opulus
- 26 Heptacodium miconioides

T 323 843 2201 F 323 276 0988

LYNN JACKSON

CLIENT

LYNN JACKSON 216 CENTRAL AVE. CAPITOLA, CA 95010

gigante AG

176B N SAN FERNANDO ROAD LOS ANGELES, CA 90031

STREETER GROUP, INC. 2571 Main Street, Suite C, Soquel, CA 95073 (831) 477-1781

N/A

GENERAL CONTRACTO LIC#

LEGEND

(E) TO REMAIN

(E) DEMO / TO BE REMOVED (TRR)

(N) CONSTRUCTION

(E) NOT IN CONTRACT (NIC)

ISSUE

PROJECT

CENTRAL 216 CENTRAL AVE. CAPITOLA, CA

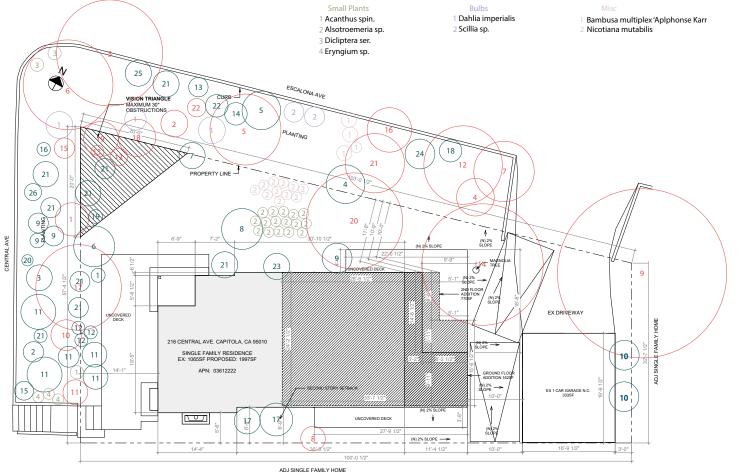
THESE DOCUMENTS ARE INSTRUMENTS OF SERVICE AND AS SUCH REMAIN THE INTELLECTULA MAD PHYSICLAR PROPERTY OF GENERAL PROPERTY OF GENERAL PROPERTY OF GENERAL PROPERTY OF GENERAL PROPERTY OF THESE NON OFFICE PROJECTS FOR ADDITIONS TO THESE PROJECTS FOR ADDITIONS TO THE PROJECT FOR YOTHERS ALL INDOCEMENTS ARE INTENDED AS QUIDELINES SHALL ANAWAYS TAKE PRECEDENCE OVER SHALL ANAWAYS TAKE PRECEDENCE OVER SHALL ANAWAYS TAKE PRECEDENCE OVER AND THE PROPERTY OF THE COMMENCEMENT OF WORK ALL EXCEPTIONS TO THE AROUSE STATEMENTS ARE ONLY ACCEPTED THE GENERAL PROPERTY OF THE COMMENCEMENT OF WORK ALL EXCEPTIONS TO THE AROUSE STATEMENTS ARE ONLY ACCEPTED.

LANDSCAPE PLAN

SHEET NUMBER

L100

ogigante AG 2013



1 SITE PLAN NEW

