THE FOLLOWING PERMIT CENTER NOTES WERE FOUND ON THE ORIGINAL APPROVED SET OF DRAWINGS:

Fire sprinklers required. Submit plans and clacs to fire marshal within 4 weeks of permit issuance.
Special inspector required for: rebar, structural steel, welding, wood framing (prior to cover), all lateral and gravity loads.
The engineering (11"x17" size) part of the approved plans is detached due to size of submittal.

Engineered structure. Read all engineering.

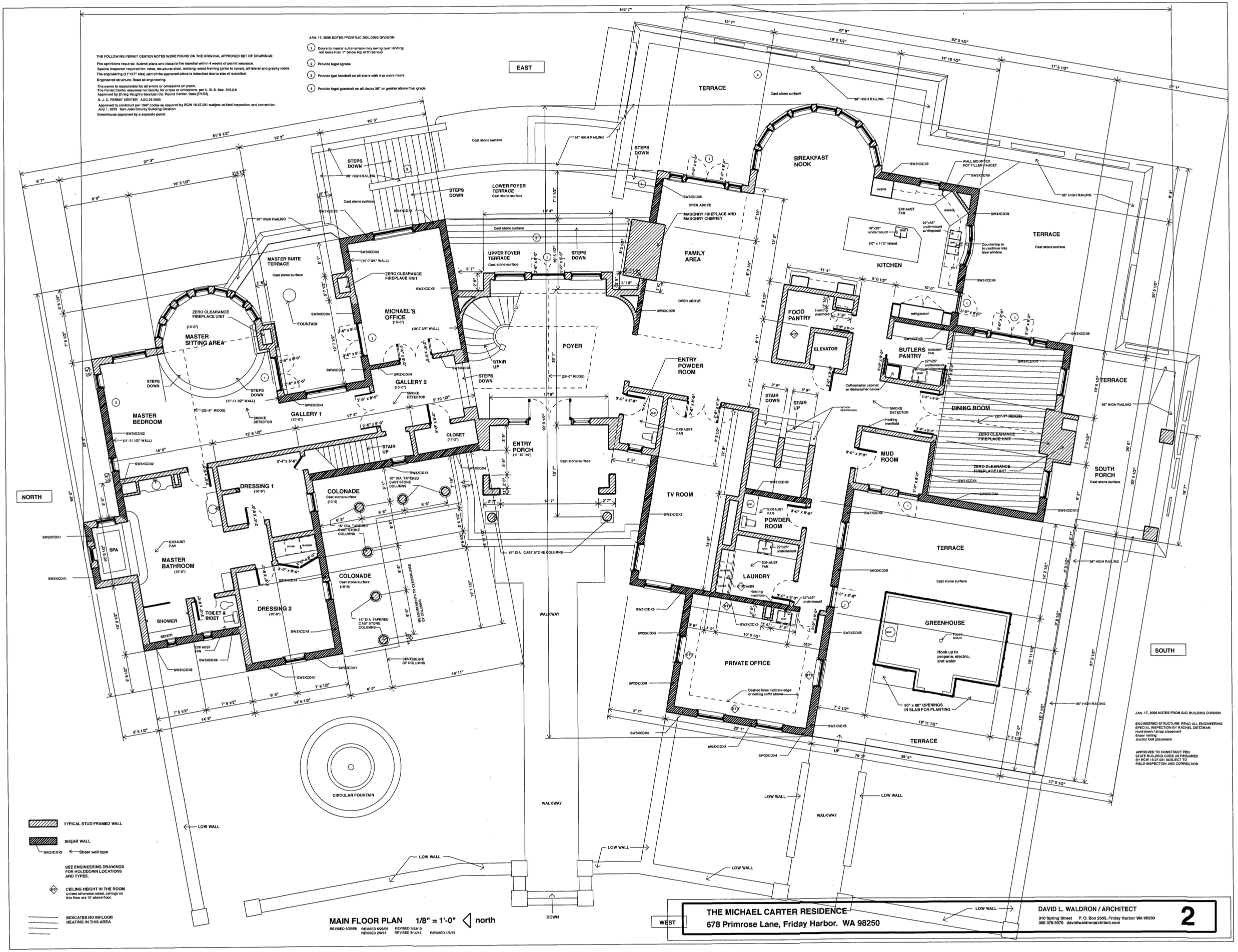
The owner is responsible for all errors or omissions on plans.
The Permit Center assumes no liability for errors or omissions, per U. B. S. Sec. 104.2.6
Approved by (Craig Vaughn) SanJuan Co. Permit Center. Date (7/1/03).

S. J. C. PERMIT CENTER AUG 29 2003

Approved to construct per 1997 codes as required by RCW 19.27.031 subject ot field inspection and correction.
July 1, 2003 San Juan County Building Division
Greenhouse approved by a seperate permit.

JAN. 17, 2006 NOTES FROM SJC BUILDING DIVISION

1. Doors to master suite terrace may swing over landing not more than 1" below top of threshold
2. Provide legal egress
3. Provide lgal handrail on all stairs with 4 or more risers
4. Provide legal guardrail on all decks 30" or greater above final grade




TYPICAL STUD FRAMED WALL

SHEAR WALL

SW2XCDX3 ← Shear wall type

SEE ENGINEERING DRAWINGS FOR HOLDDOWN LOCATIONS AND TYPES.

8'0" CEILING HEIGHT IN THE ROOM
Unless otherwise noted, ceilings on this floor are 10' above floor.

INDICATES NO INFLOOR HEATING IN THIS AREA

JAN. 17, 2006 NOTES FROM SJC BUILDING DIVISION

ENGINEERED STRUCTURE. READ ALL ENGINEERING
SPECIAL INSPECTION BY RACHEL DIETZMAN:
Hold-down / strap placement
Shear nailing
Anchor bolt placement

APPROVED TO CONSTRUCT PER
STATE BUILDING CODE AS REQUIRED
BY RCW 19.27.031 SUBJECT TO
FIELD INSPECTION AND CORRECTION

**MAIN FLOOR PLAN** 1/8" = 1'-0" north

REVISED 5/25/08 REVISED 6/29/09 REVISED 2/9/14 REVISED 2/23/10 REVISED 3/14/14 REVISED 1/4/15

**THE MICHAEL CARTER RESIDENCE**
**678 Primrose Lane, Friday Harbor. WA 98250**


DAVID L. WALDRON / ARCHITECT
310 Spring Street P. O. Box 2505, Friday Harbor WA 98250
360 378 3070 davidlwaldronarchitect.com

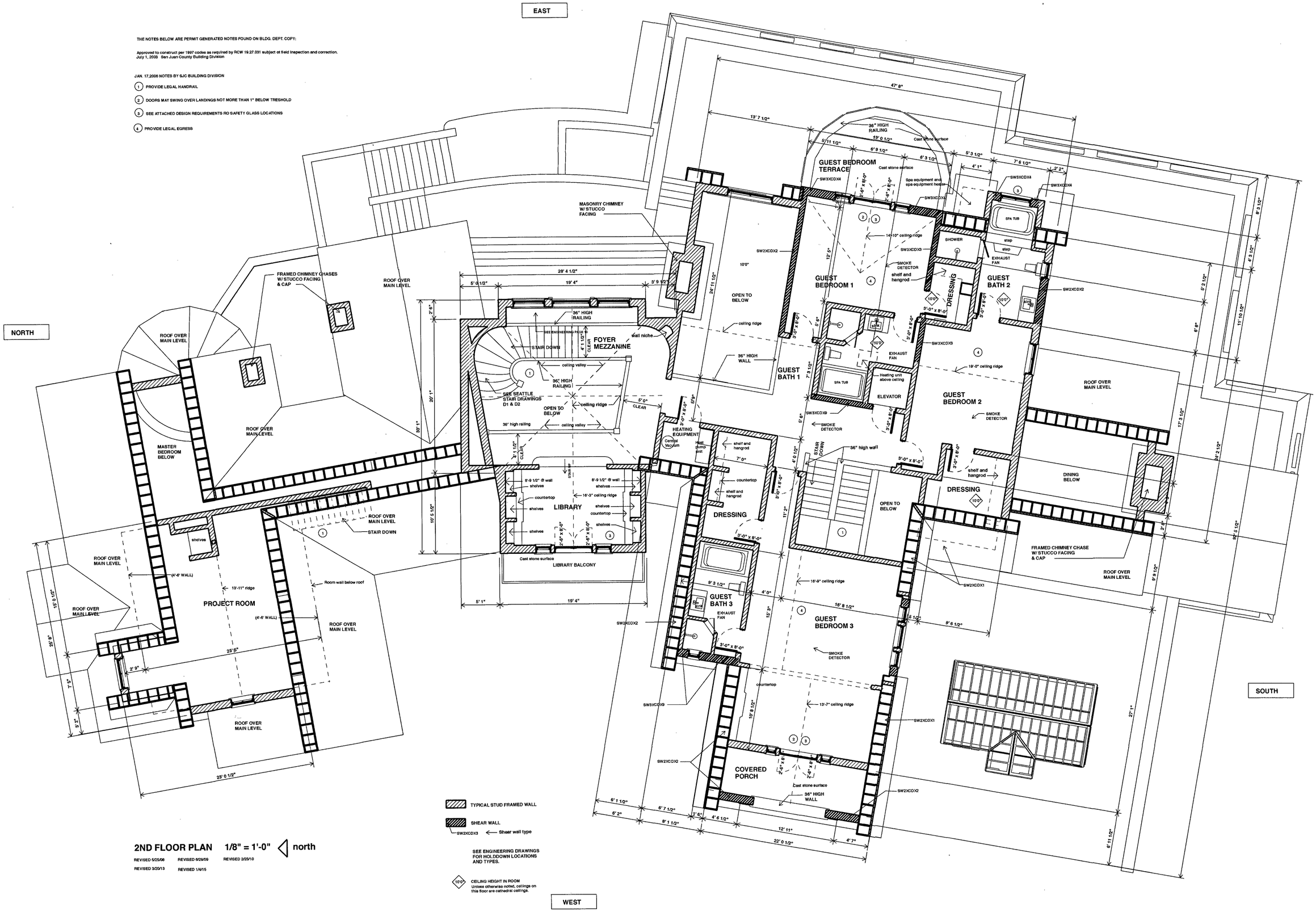

**2**

THE NOTES BELOW ARE PERMIT GENERATED NOTES FOUND ON BLDG. DEPT. COPY:

Approved to construct per 1997 codes as required by RCW 19.27.031 subject ot field inspection and correction.
July 1, 2003 San Juan County Building Division

JAN. 17,2006 NOTES BY SJC BUILDING DIVISION

1. PROVIDE LEGAL HANDRAIL
2. DOORS MAY SWING OVER LANDINGS NOT MORE THAN 1" BELOW TRESHOLD
3. SEE ATTACHED DESIGN REQUIREMENTS RO SAFETY GLASS LOCATIONS
4. PROVIDE LEGAL EGRESS




## 2ND FLOOR PLAN 1/8" = 1'-0" north

REVISED 5/25/08 REVISED 6/29/09 REVISED 2/23/10
REVISED 3/20/13 REVISED 1/4/15

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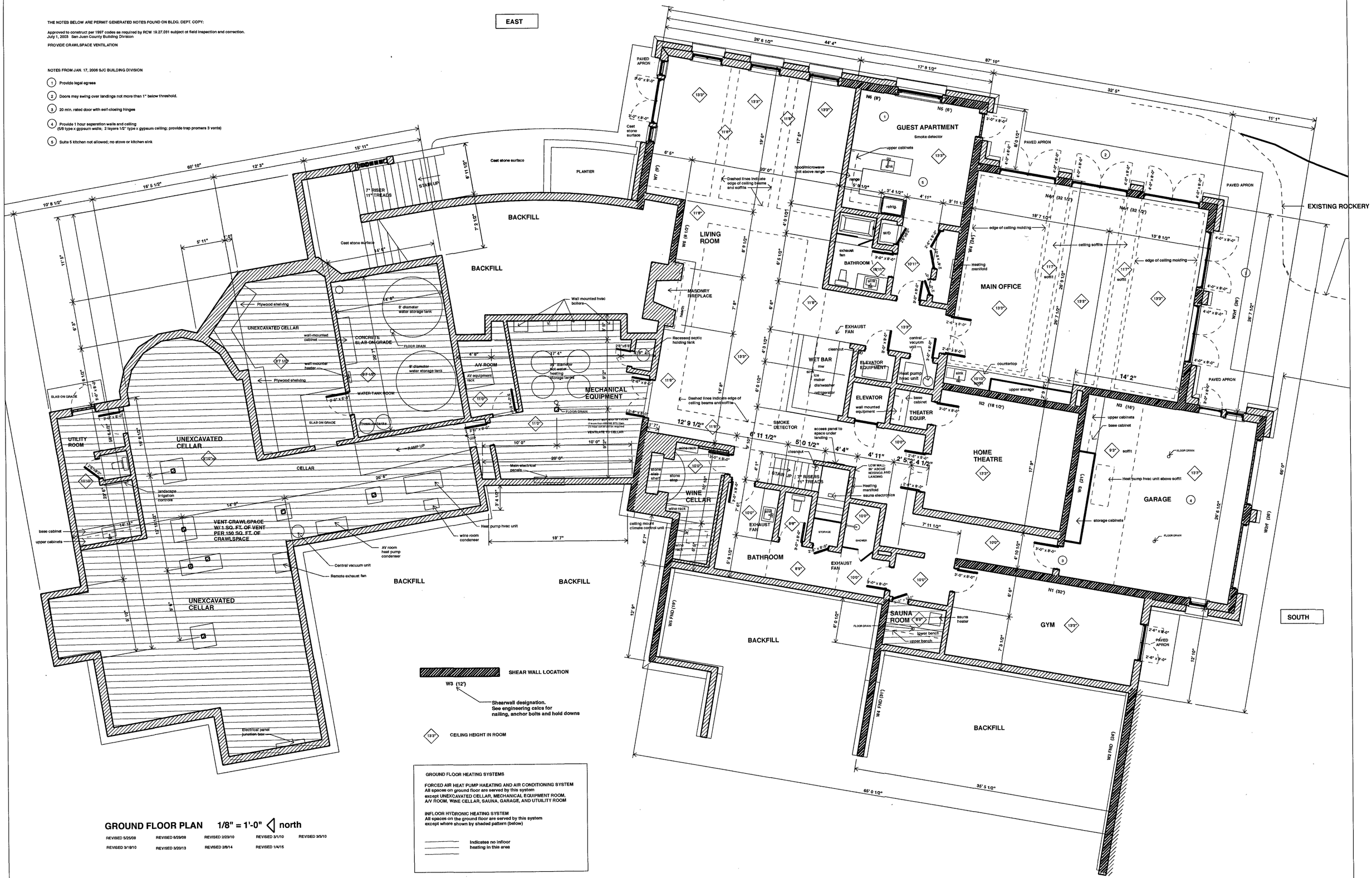
THE NOTES BELOW ARE PERMIT GENERATED NOTES FOUND ON BLDG. DEPT. COPY:

Approved to construct per 1997 codes as required by RCW 19.27.031 subject to field inspection and correction.
July 1, 2003 San Juan County Building Division

PROVIDE CRAWLSPACE VENTILATION

NOTES FROM JAN. 17, 2006 SJC BUILDING DIVISION

1. Provide legal egress
2. Doors may swing over landings not more than 1" below threshold.
3. 20 min. rated door with self-closing hinges
4. Provide 1 hour separation walls and ceiling (5/8 type x gypsum walls; 2 layers 1/2" type x gypsum ceiling; provide trap promers 3 vents)
5. Suite 5 kitchen not allowed; no stove or kitchen sink




## GROUND FLOOR PLAN 1/8" = 1'-0" north

REVISED 5/25/08 REVISED 6/29/08 REVISED 2/23/10 REVISED 3/1/10 REVISED 3/3/10
REVISED 3/18/10 REVISED 3/20/13 REVISED 2/8/14 REVISED 1/4/15

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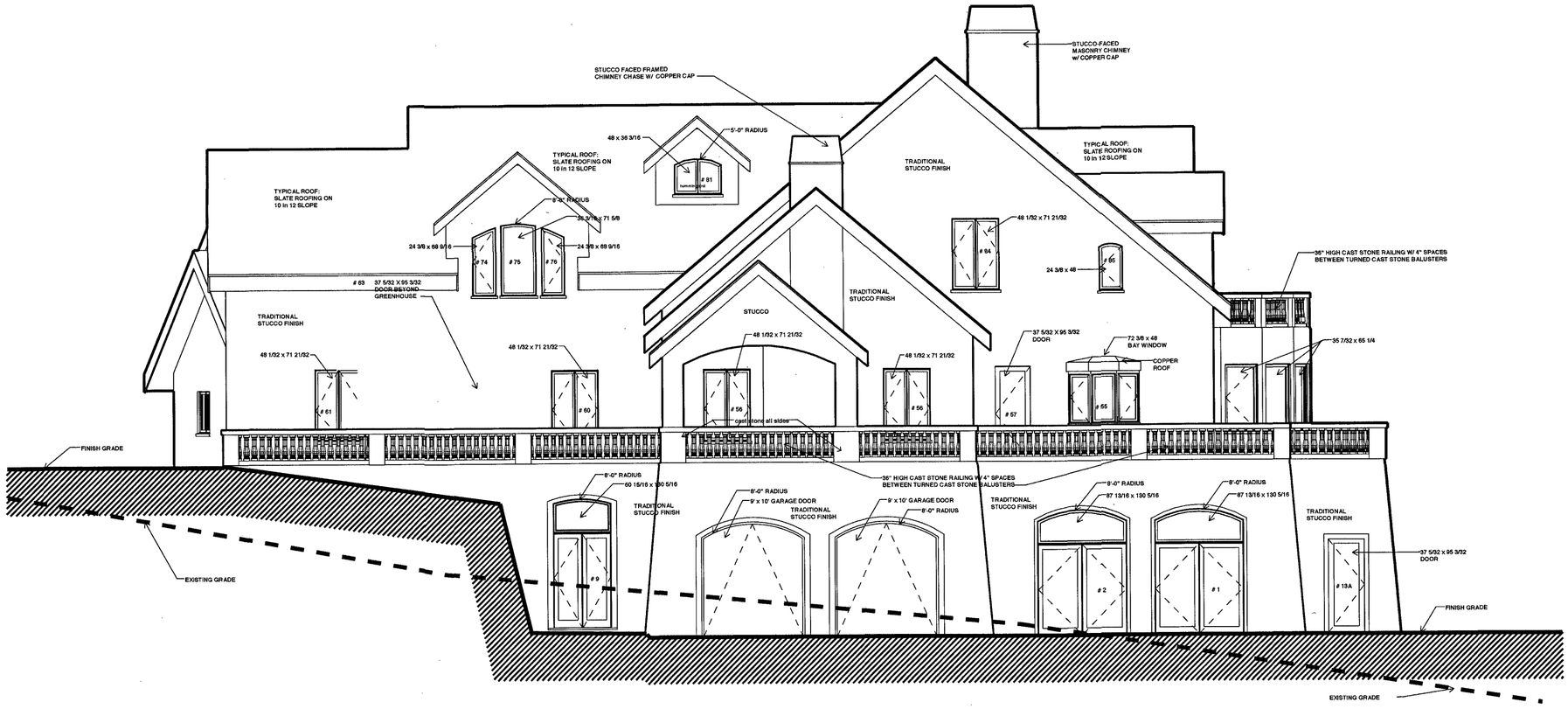
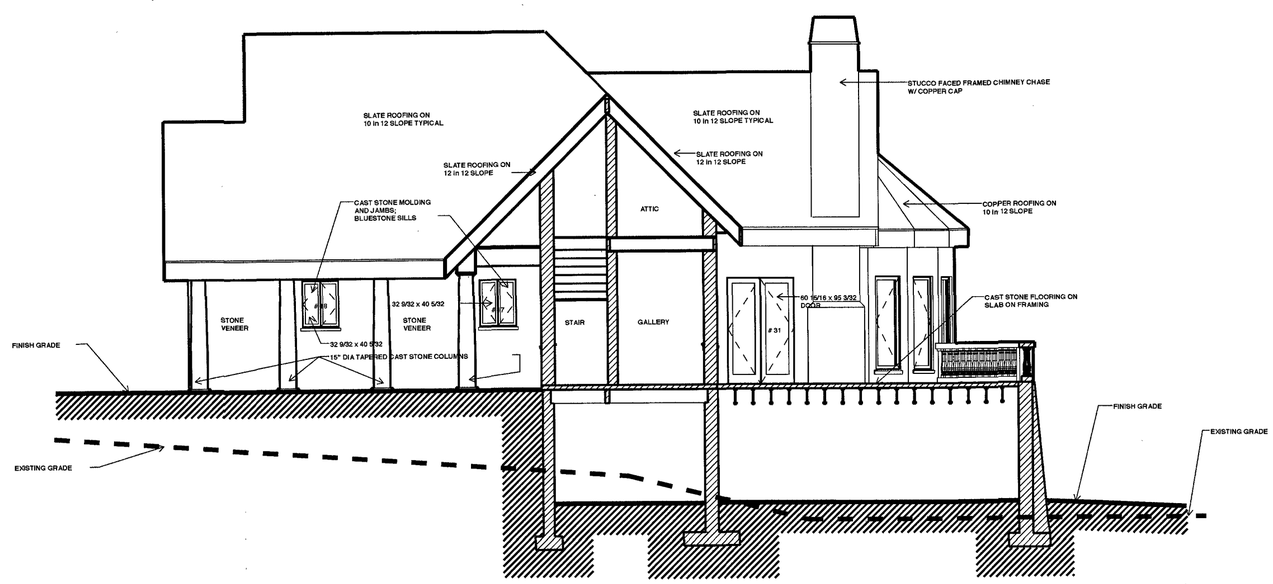



## SOUTH ELEVATION 1/8" = 1'-0"

REVISED 11/11/07 REVISED 6/29/09 REVISED 2/23/10




## MASTER SUITE SOUTH ELEVATION 1/8" = 1'-0"

REVISED 9/29/07

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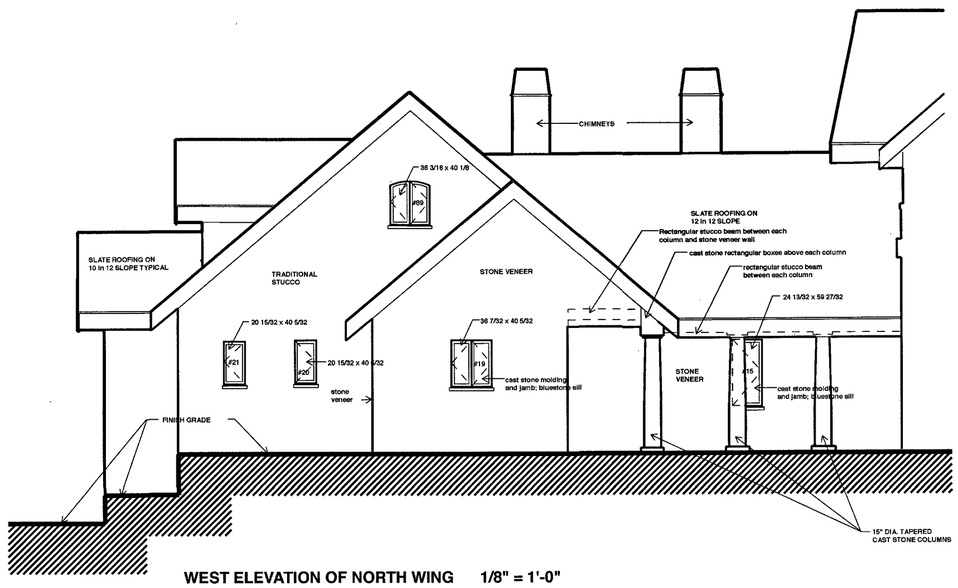
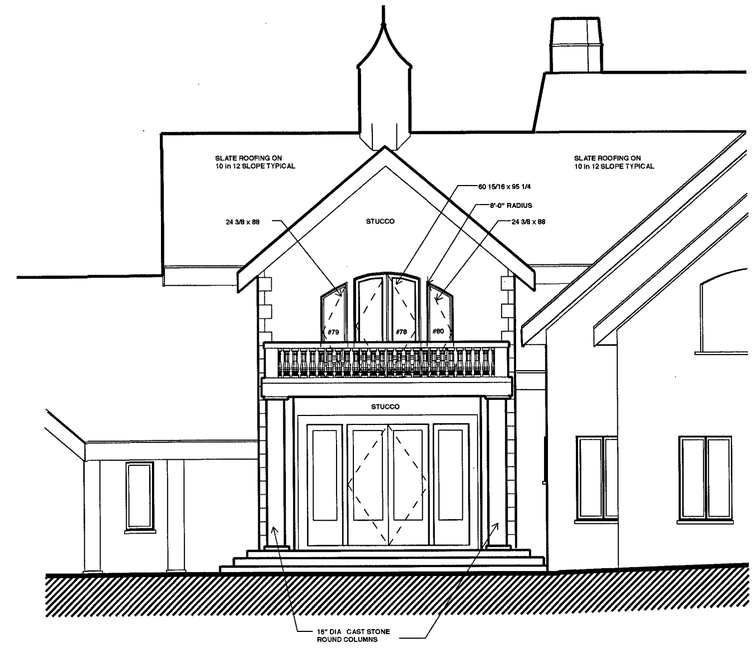
360 378 3070 Fax: 360 378 9527 davidwaldron@interisland.net



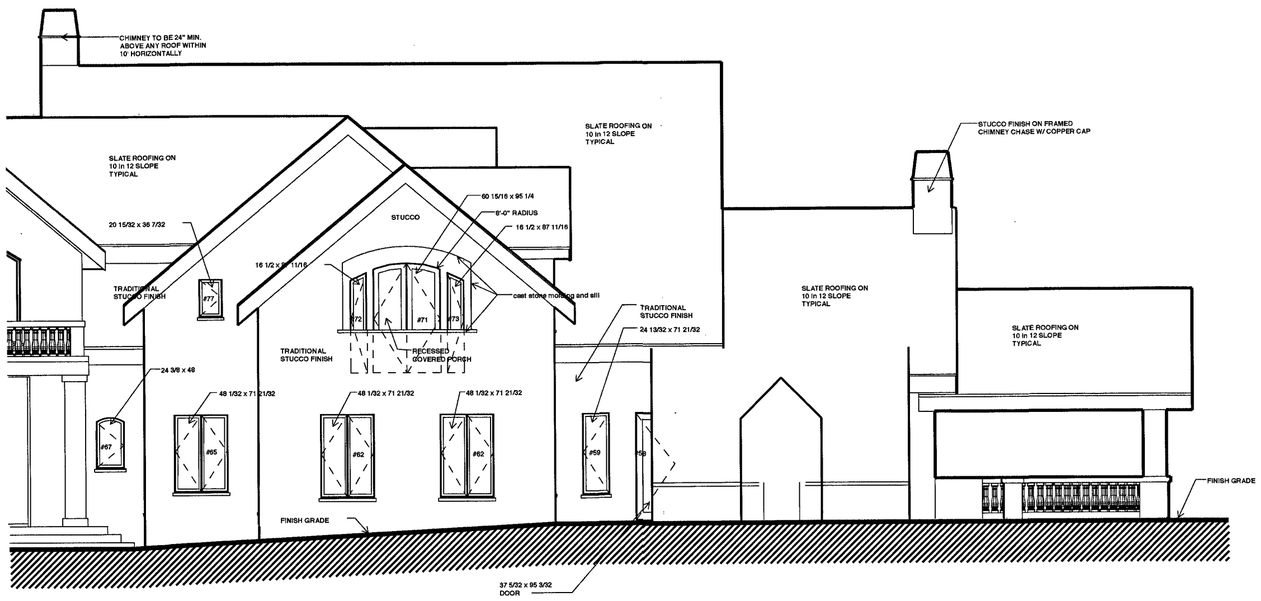

**WEST ELEVATION OF NORTH WING 1/8" = 1'-0"**

REVISED 9/29/07



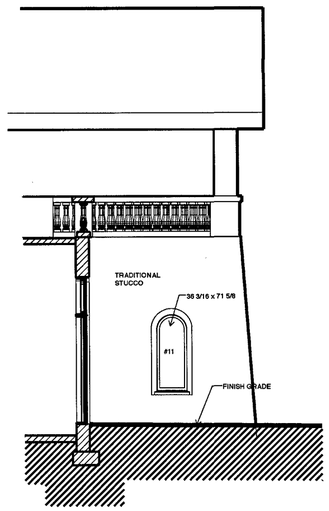

**FOYER WEST ELEVATION 1/8" = 1'-0"**

REVISED 11/21/07 REVISED 2/23/10




**SOUTH WING WEST ELEVATION 1/8" = 1'-0"**

REVISED 11/11/07




**GARAGE WEST ELEVATION 1/8" = 1'-0"**

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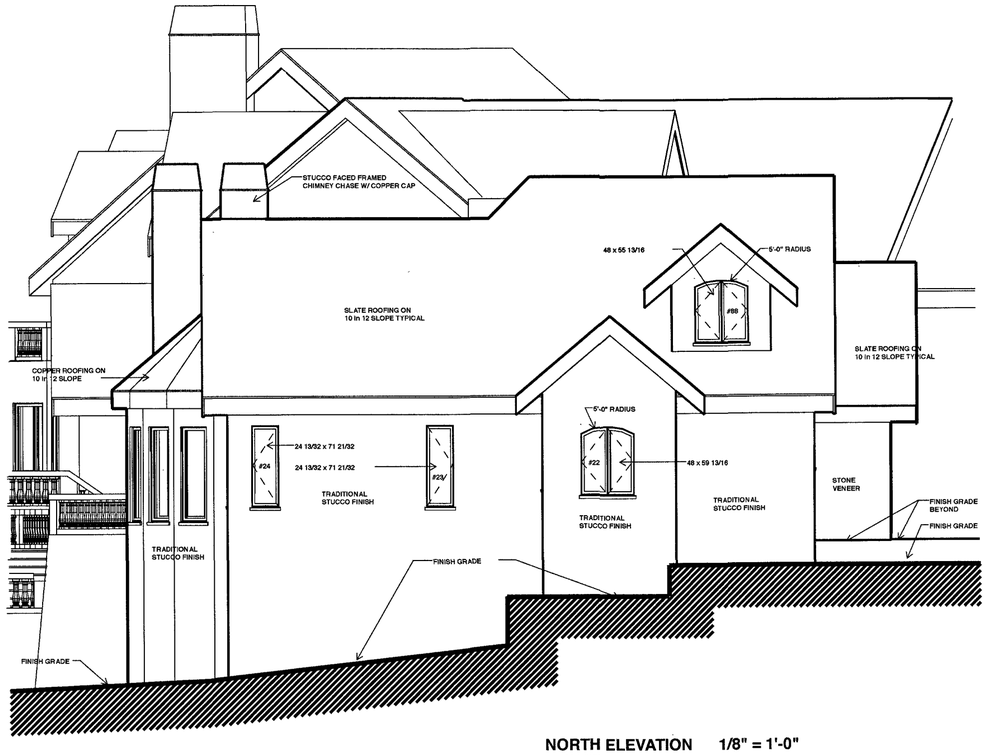
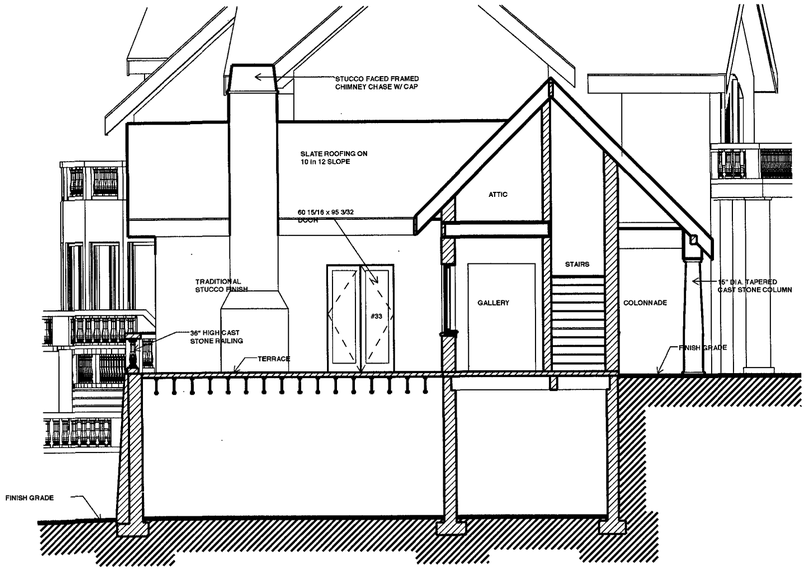


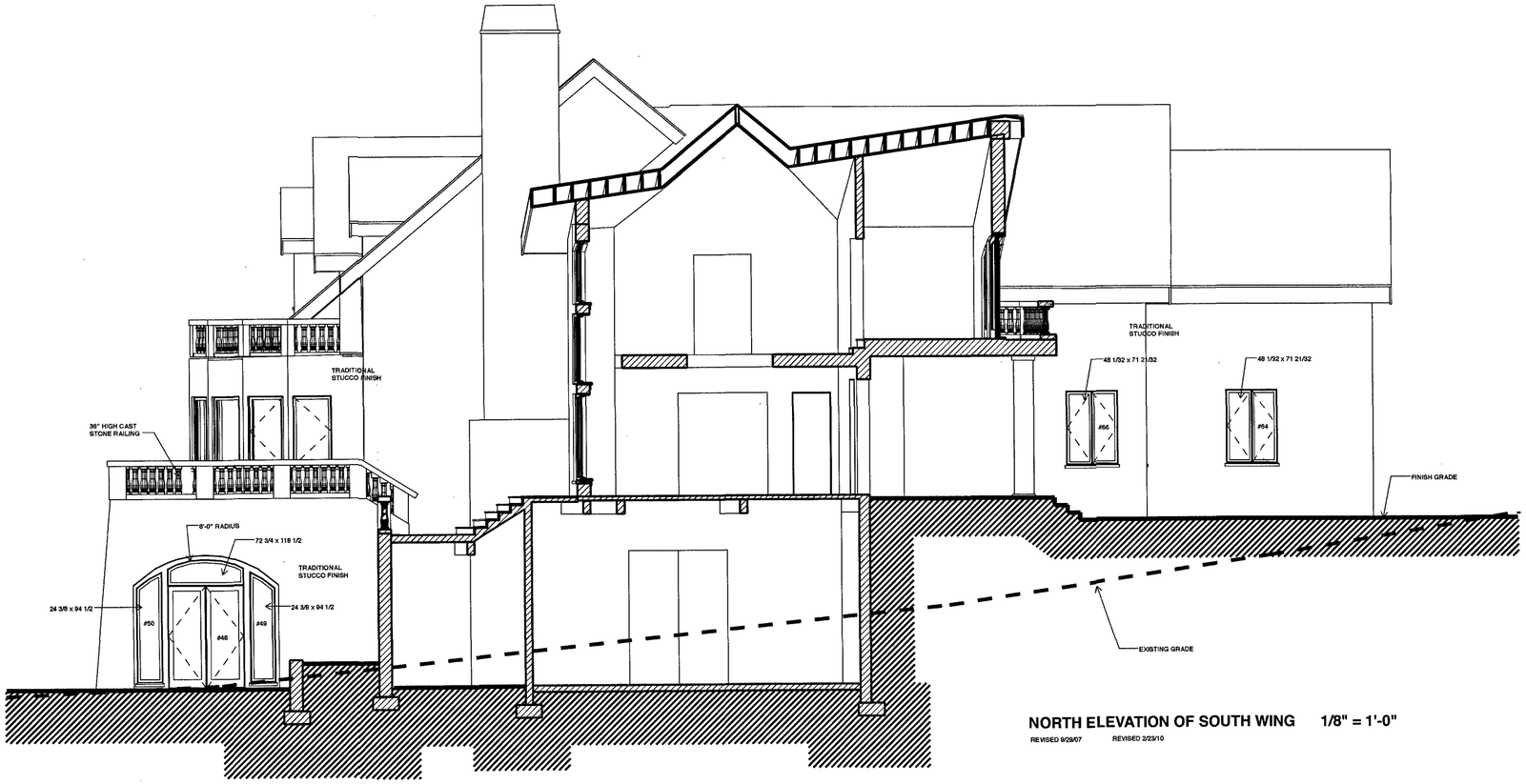

**NORTH ELEVATION** 1/8" = 1'-0"

REVISED 11/11/07 REVISED 2/23/10




**NORTH ELEVATION OF OFFICE** 1/8" = 1'-0"

REVISED 9/29/07 REVISED 2/23/10




**NORTH ELEVATION OF SOUTH WING** 1/8" = 1'-0"

REVISED 9/29/07 REVISED 2/23/10

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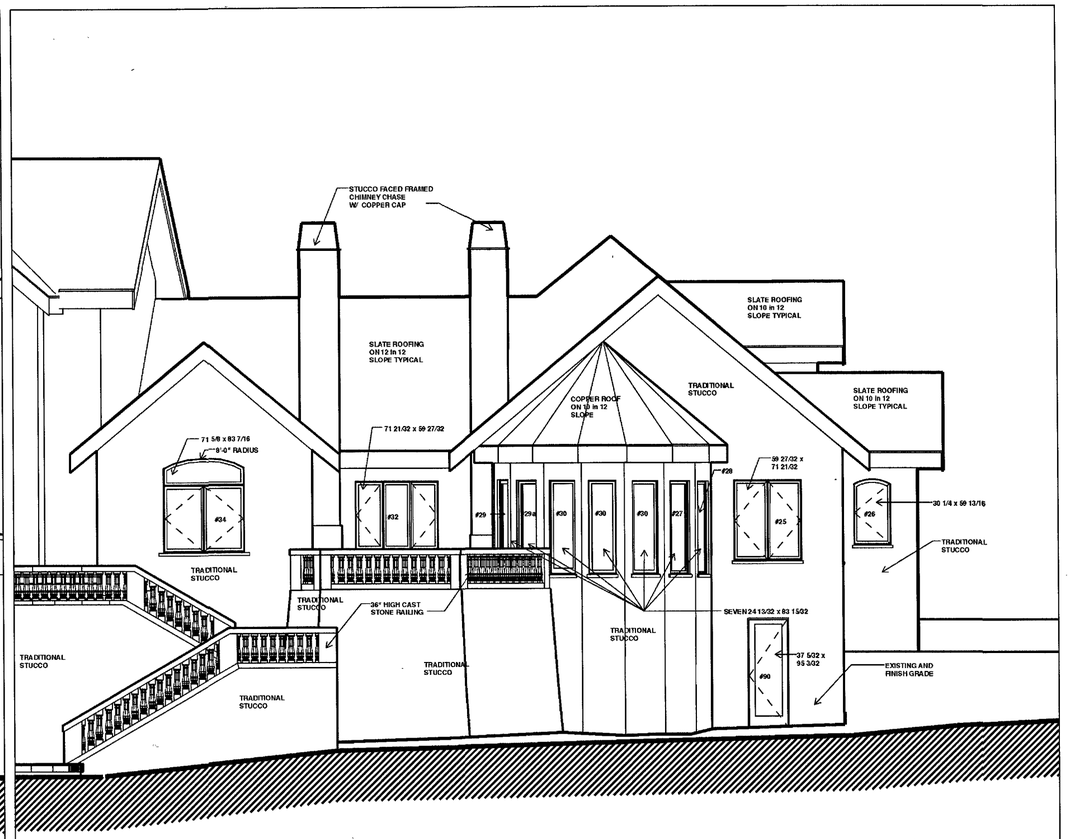
360 378 3070 Fax: 360 378 9527 davidwaldron@interisland.net

## SOUTH WING EAST ELEVATION 1/8" = 1'-0"

REVISED 11/11/07 REVISED 6/29/09 REVISED 2/23/10

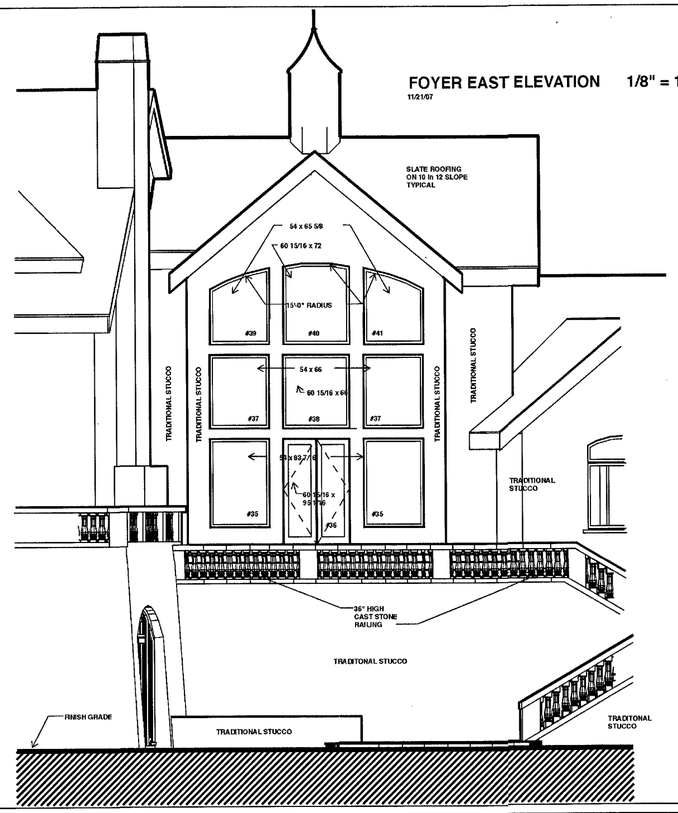



## EAST ELEVATION OF NORTH WING 1/8" = 1'-0"

REVISED 9/29/07 REVISED 2/23/10

## FOYER EAST ELEVATION 1/8" = 1'-0"

11/21/07

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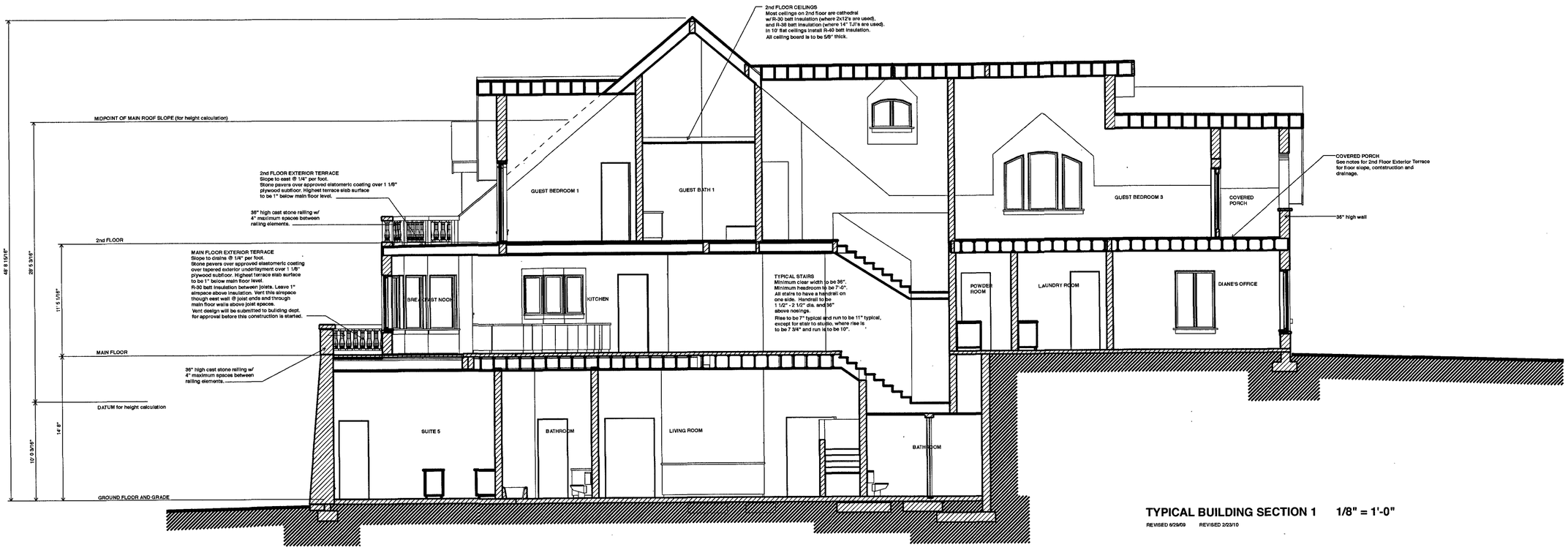
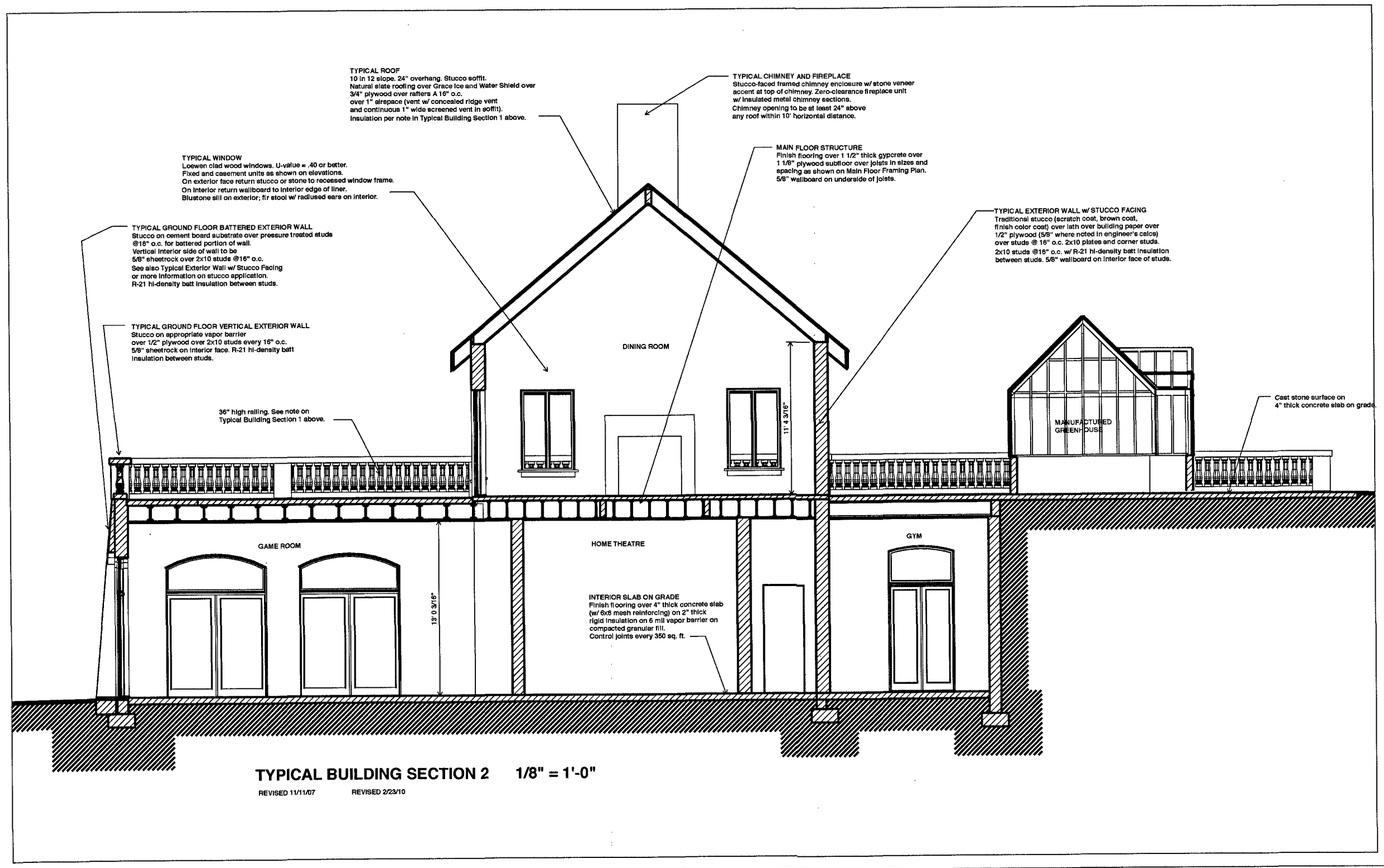
678 Primrose Lane
Friday Harbor, WA 98250

DAVID L. WALDRON / ARCHITECT
310 Spring St. P. O. Box 2505 Friday Harbor WA 98250
360 378 3070 Fax: 360 378 9327 davidwaldron@interisland.net



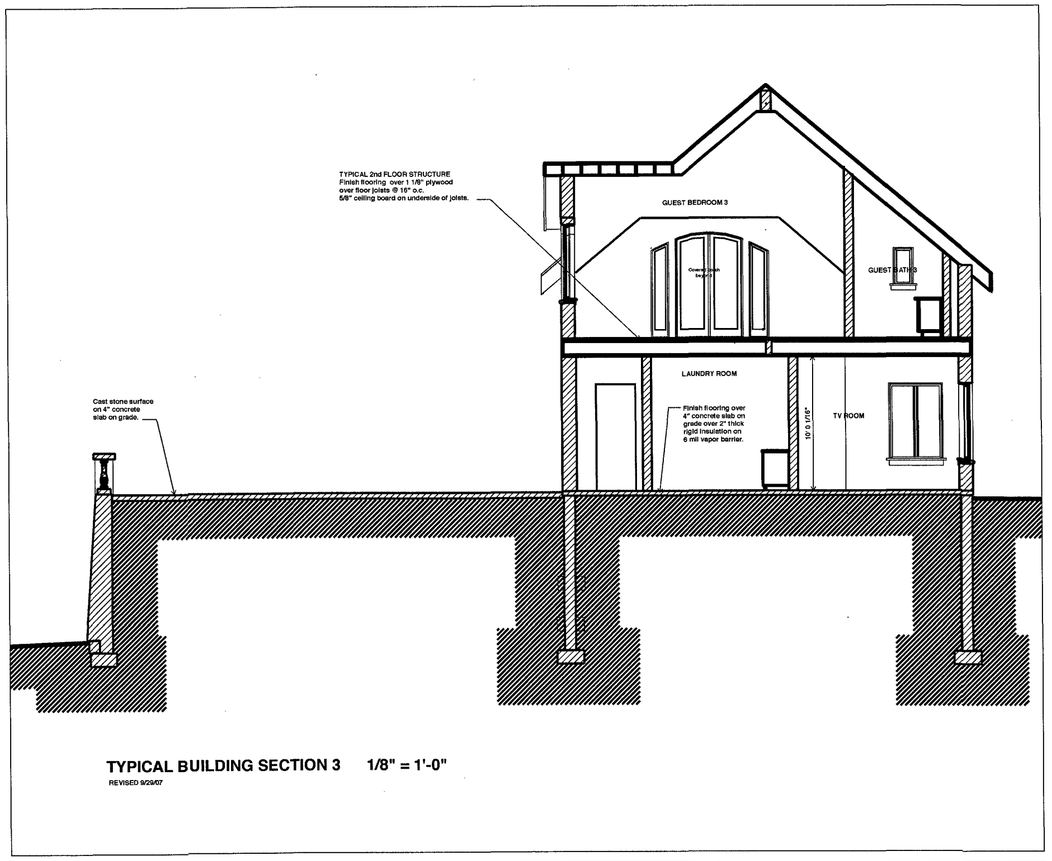

## TYPICAL BUILDING SECTION 1 1/8" = 1'-0"

REVISED 9/29/09 REVISED 2/23/10




## TYPICAL BUILDING SECTION 2 1/8" = 1'-0"

REVISED 11/11/07 REVISED 2/23/10




## TYPICAL BUILDING SECTION 3 1/8" = 1'-0"

REVISED 9/29/07

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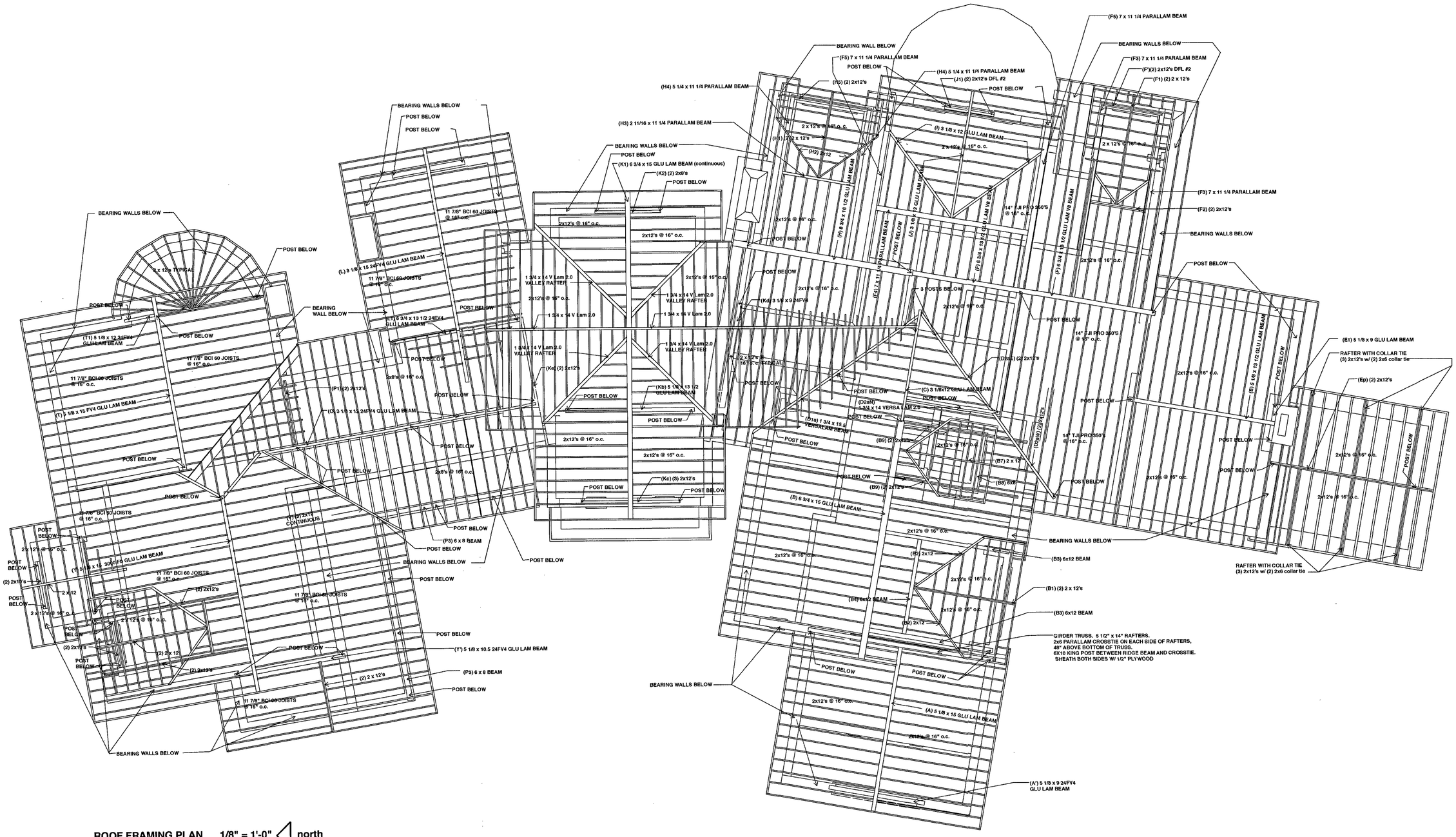


**ROOF FRAMING PLAN** 1/8" = 1'-0" north

REVISED 8/29/07 REVISED 6/29/09

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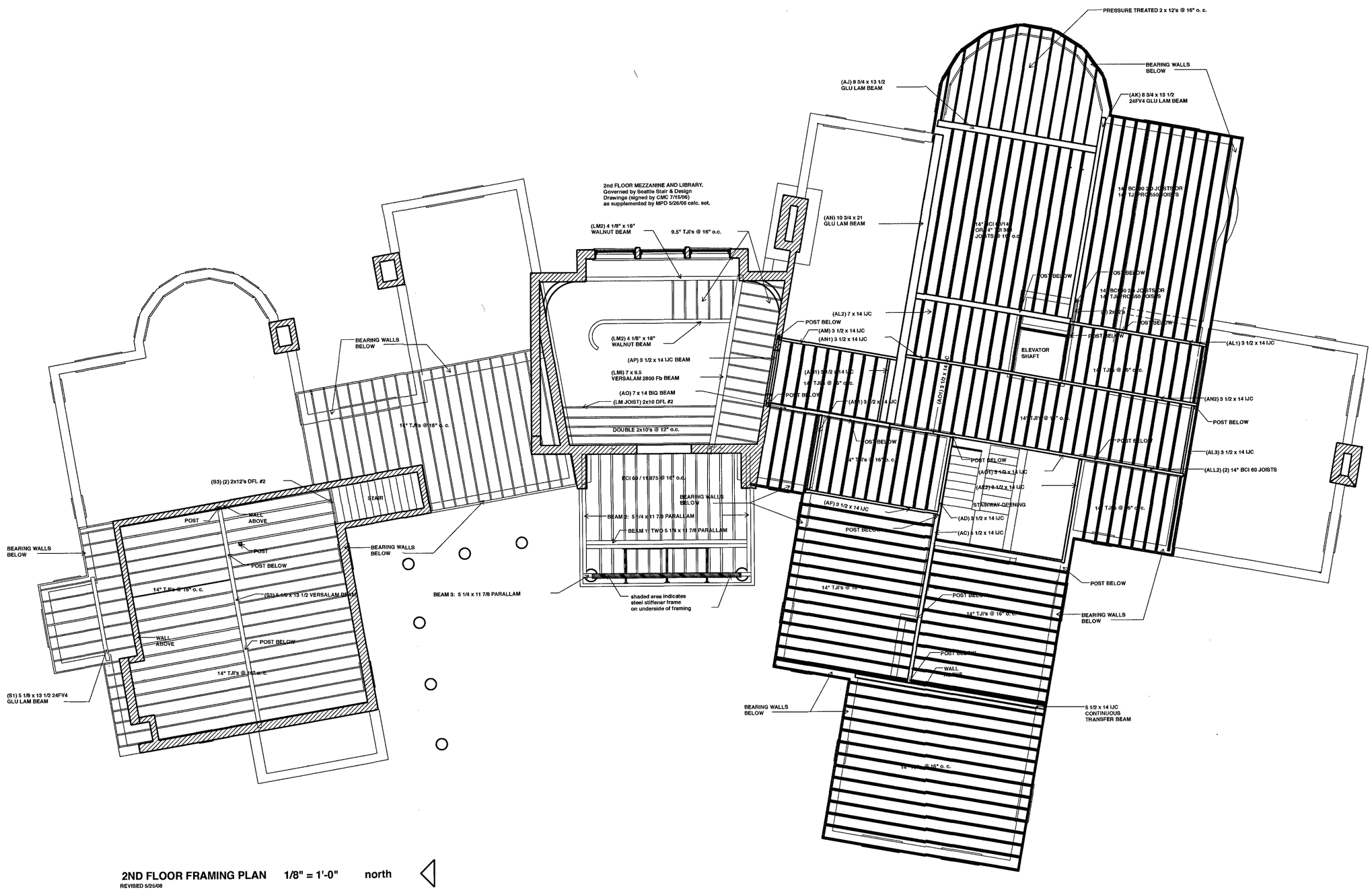
310 Spring St. P.O. Box 2505 Friday Harbor WA 98250
360 378 3070 Fax. 360 378 9527 davidwaldron@interisland.net




## 2ND FLOOR FRAMING PLAN 1/8" = 1'-0" north

REVISED 5/25/08

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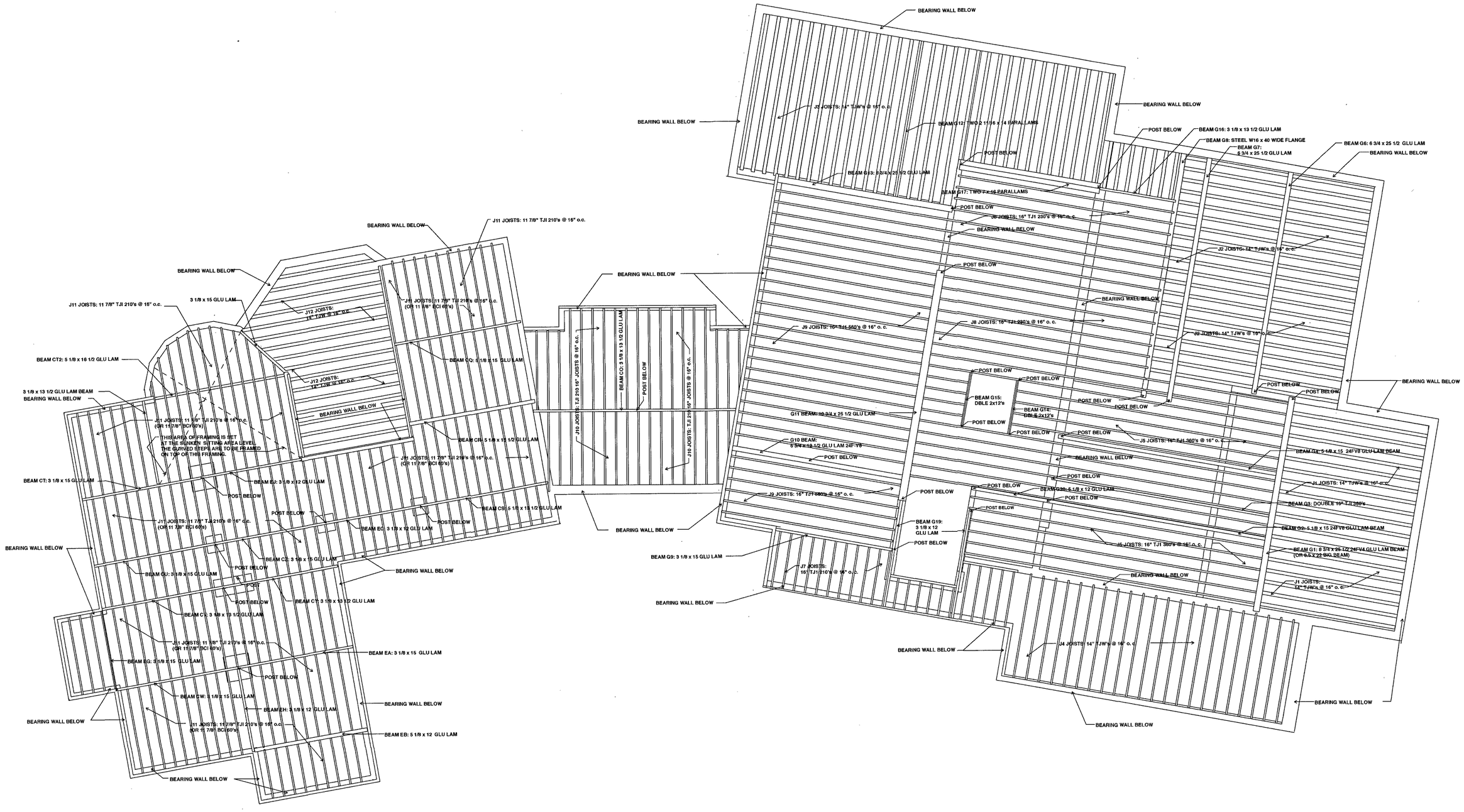


## MAIN FLOOR FRAMING PLAN 1/8" = 1'-0"

Revised 5/25/08

north

NOTE: ALL GLU LAMS WHICH ARE CONTINUOUS OVER SUPPORT ARE TO BE 24F-V8

Jan. 17, 2006
SJC Building Division

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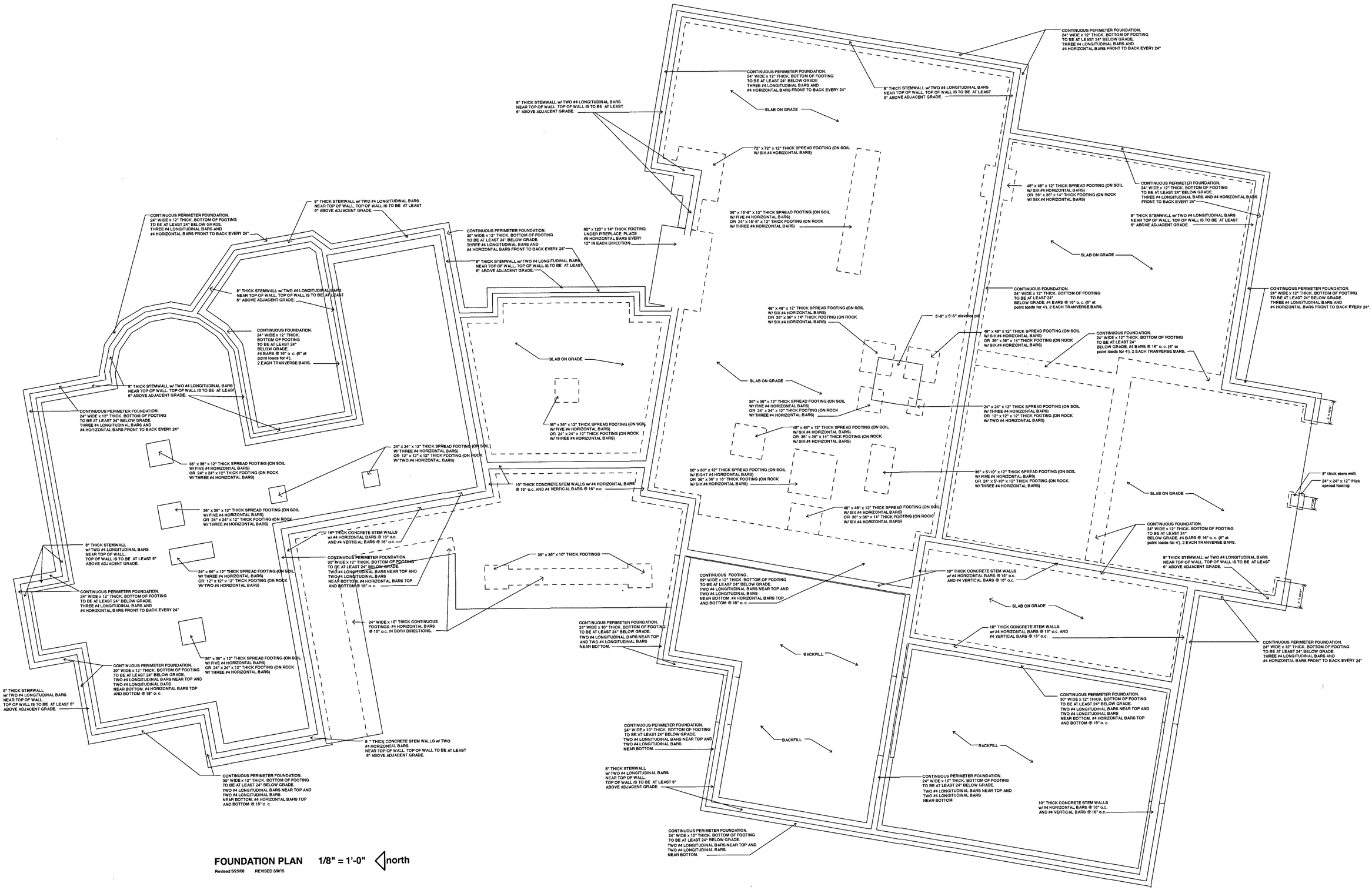


**FOUNDATION PLAN** 1/8" = 1'-0" north

Revised 5/25/08 REVISED 3/9/15

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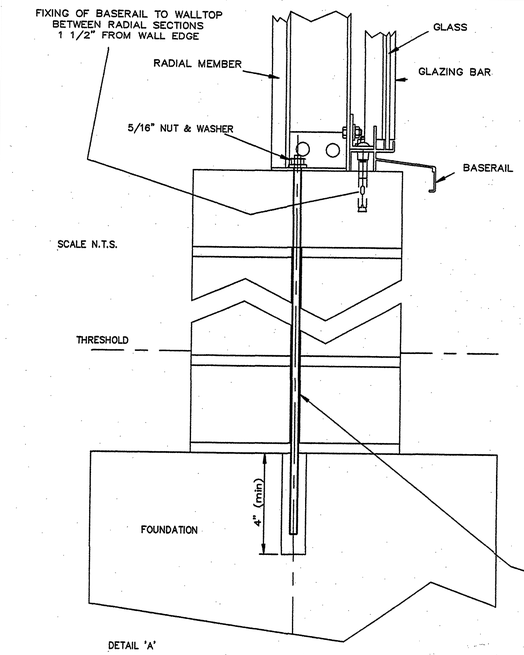
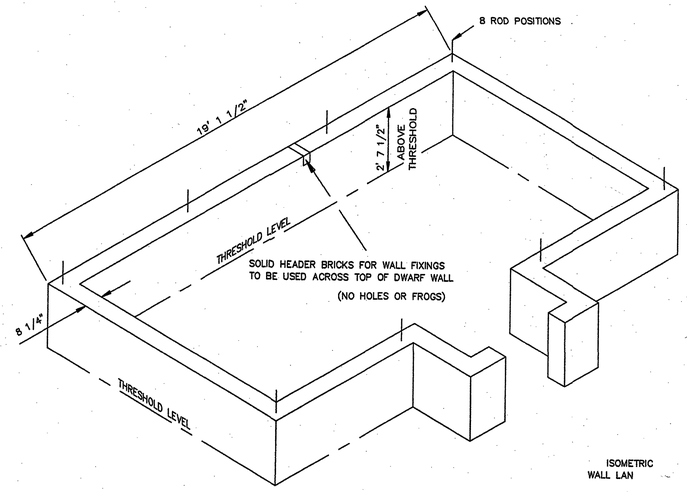
Greenhouse



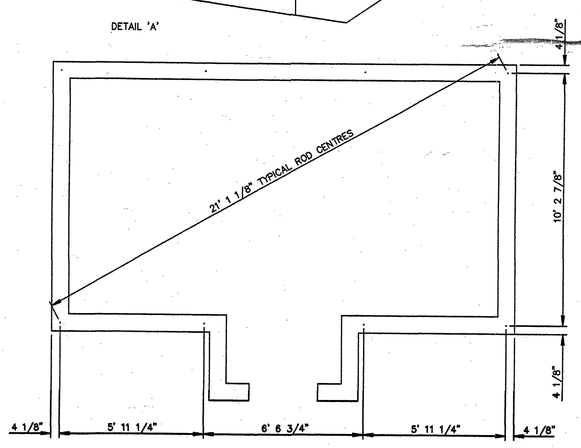

DETAIL 'A'



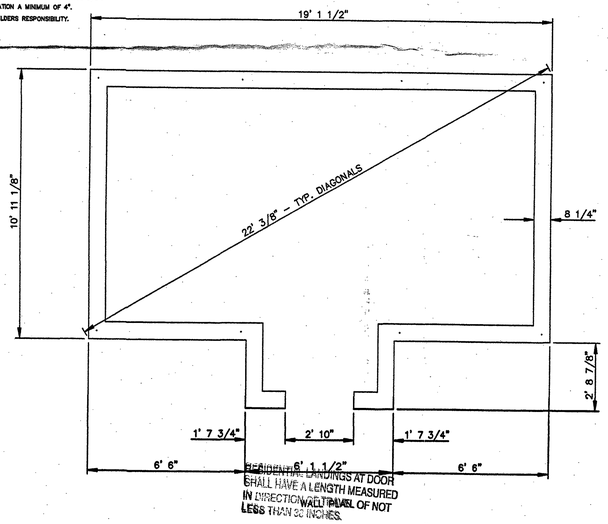

ISOMETRIC
WALL LAN

ROD DETAILS FOR 8 LOCATIONS

5/16" SHERADIZED OR STAINLESS STEEL ROD RESIN ANCHORED INTO FOUNDATION USING KEMFIX KB EPOXY RESIN OR SIMILAR.
ROD TO BE THREADED 5/16" 4" FROM EACH END, (OR SCREWED BAR).
PROTRUSION FROM TOP OF WALL TO BE 2" PLUS OR MINUS 3/8".
RODS TO BE FIXED INTO FOUNDATION A MINIMUM OF 4".
THE RODS ARE THE CLIENTS/BUILDERS RESPONSIBILITY.



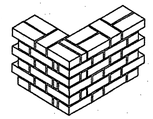

ROD POSITIONS AS PER DETAIL A



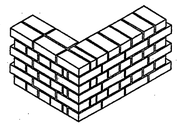

REGULATORY LANDINGS AT DOOR
SHALL HAVE A LENGTH MEASURED
IN DIRECTION OF TRAVEL OF NOT
LESS THAN 36 INCHES.

DO NOT SCALE

IF IN DOUBT CONTACT
PRIVATE GARDEN

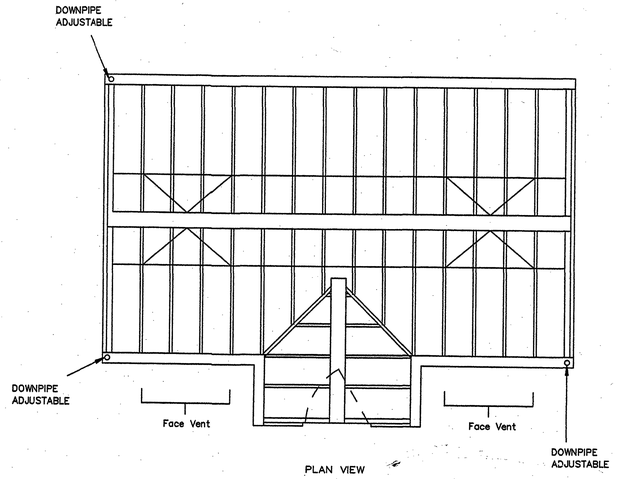


Flemish Bond



English Bond

IMPORTANT NOTE:
ALL BASE DIMENSIONS TO BE WITHIN PLUS OR MINUS 1/4"

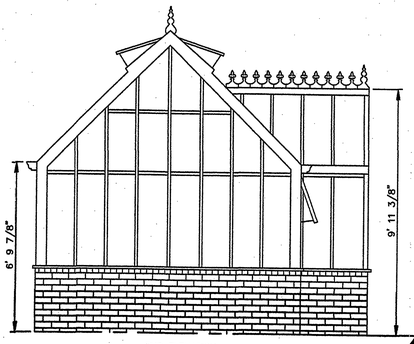



PLAN VIEW

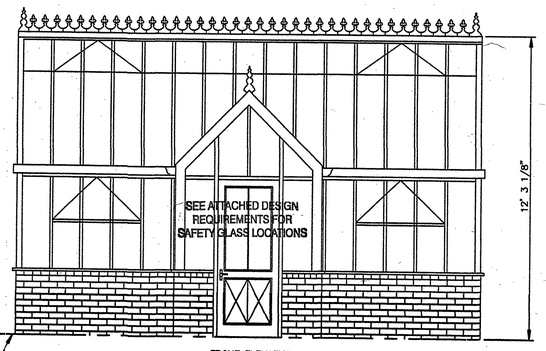
PLEASE READ ALL INSTRUCTIONS
BEFORE COMMENCING, IF YOU HAVE
ANY DOUBTS AS TO THE SPECIFICATIONS
THAT WE REQUIRE
PLEASE CONTACT

PRIVATE GARDEN

RADIAL POSITIONS




END ELEVATION




FRONT ELEVATION

THRESHOLD AND INTERIOR PATH LEVEL WHICH SHOULD BE SLIGHTLY ABOVE NORMAL GROUND LEVEL
THE THRESHOLD LEVEL IS THE LEVEL AT WHICH THE DOOR WILL OPERATE WITH NORMAL CLEARANCE
THIS SHOULD BE THE FINISHED FLOOR LEVEL INSIDE THE GLASSHOUSE. WALLTOP TO BE 2'7 1/2" ABOVE THRESHOLD.

NOTES RELATING TO FOUNDATION AND WALLING (CLIENTS RESPONSIBILITY)

ALL BRICKWORK TO BE CONSTRUCTED WITH A MINIMUM COMPRESSIVE STRENGTH OF 20N/mm BRICKS USING MORTAR DESIGNATION TO BS5268: PART 1: 1992 TABLE 1
SEE TABLE BELOW FOR MIX DETAILS FOR STANDARD CLASS MORTAR DESIGNATION

| TYPE OF MORTAR (PORTION BY VOLUME) | |
|---|---|
| CEMENT: LIME: SAND | 1: 1:5 TO 6 |
| MASONARY CEMENT: SAND | 1:4 TO 5 |
| CEMENT: SAND WITH PLASTICIZER | 1:5 TO 6 |

THE MIXING AND USE OF MORTARS SHOULD BE IN ACCORDANCE WITH THE RECOMMENDATIONS GIVEN IN BS5268: PART3 OR BS5390
READY MIX MORTARS SHOULD COMPLY WITH THE REQUIREMENTS OF BS4721 AND BE EQUIVILANT TO THE ABOVE SPECIFICATION

ALL FACING BRICKWORK FROM 6" ABOVE GROUND LEVEL TO BE CONSTRUCTED USING TYPE MN OR ML BRICKS (BS3921) WITH WATER ABSORTION NOT EXCEEDING 12%

NOTES RELATING TO FOUNDATION AND WALLING continued:

ALL BRICKWORK UPTO 6" ABOVE GROUND LEVEL FROM THE TOP OF THE FOUNDATION TO BE CONSTRUCTED WITH ENGINEERING CLASS B BRICKS WITH WATER ABSORTION NOT EXCEEDING 7%

FOR FULLY BONDED CONSTRUCTION BRICKWORK TO BE CONSTRUCTED IN EITHER OF THE FOLLOWING:

A. ENGLISH BOND – ONE COURSE OF HEADERS AND ONE COURSE OF STRETCHERS ALTERNATELY
B. FLEMISH BOND – HEADERS AND STRETCHERS ALTERNATELY IN THE SAME COURSE

IF THE WALL IS TO BE CONSTRUCTED WITH TWO PARALLEL LEAVES, THIS IS TO BE HALF STRETCHER BOND WITH NO CAVITY. PROVIDE WALL TIES AT CENTRES NOT EXCEEDING 1' 8 3/4" VERTICAL AND 17 3/4" HORIZONTAL. ALL WALL TIES TO BE STAINLESS STEEL DOUBLE TRIANGLE TYPE TO BS1243 AND IN ACCORDANCE WITH DD140: PART 2: 1987 AND BS5268: PART3: 1985

IF A DAMP PROOF COARSE IS TO BE INSTALLED, THEN 'EXPAMET' STAINLESS STEEL EXMET (EXPANDED METAL LATH) MUST BE LAID CONTINUOUSLY ALONG ALTERNATE COURSES FOR THE FULL HEIGHT OF THE DWARF WALL. THE WIDTH OF THE 'EXPAMET' IS TO BE 7" FOR THE WALL.

THE FOUNDATION SHOULD BE OF SUITABLE DEPTH AND THICKNESS DEPENDING ON LOCAL CONDITIONS

GENERAL NOTES:
STRUCTURE BUILT IN ALUMINIUM ALLOY
POLYESTER POWDER COATED, COLOUR T.B.A.
ROOF VENTS OPERATED BY Mk 7 AUTOVENTS
VERTICAL FACE VENTS OPERATED BY MANUAL SWING THROWS
GLAZED IN TOUGHENED SAFETY GLASS. EXTRA PANES TO BE SUPPLIED FOR LOWER DOOR
CAST ALUMINIUM RIDGE CRESTINGS & FINIALS FITTED TO RIDGE
ALUMINIUM SWING DOOR COMPLETE WITH LOCKS & BRASS FURNITURE
OGEE ALUMINIUM GUTTERS

THESE DETAILS MUST BE ADHERED TO

IF YOU HAVE DOUBTS RELATING TO THESE DETAILS

PLEASE CONTACT PRIVATE GARDEN LTD.

0 5 10 15

APPROVED
The owner is responsible for all errors or omissions on plans. The Building Division assumes no liability for errors or omissions
By: Date: 7/10/05
SAN JUAN COUNTY COMMUNITY DEVELOPMENT/PLANNING

3rd ANGLE PROJECTION

DESCRIPTION:
GENERAL ARRANGEMENT DRAWING
"THE VICTORIAN LODGE GLASSHOUSE".

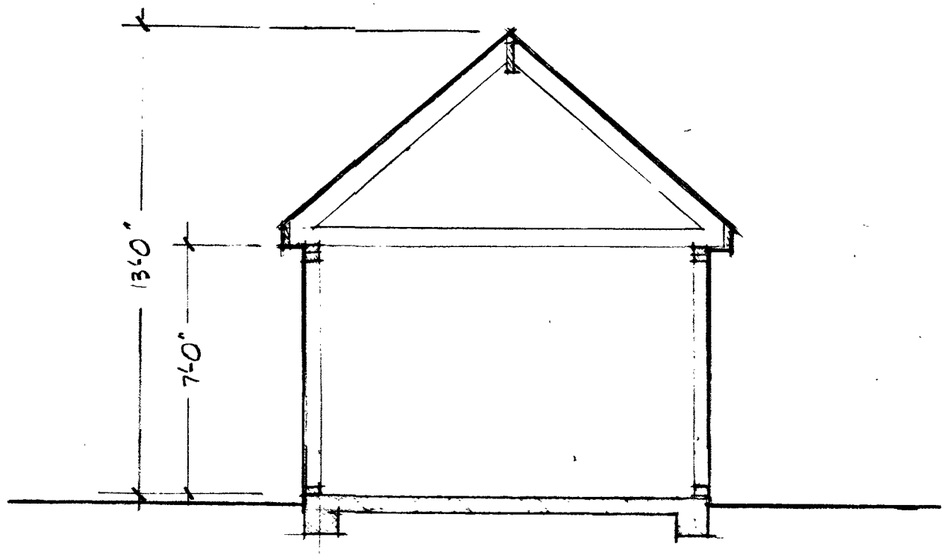
CLIENT:– CARTER RESIDENCE, WA
Private Garden,
36 Commercial Drive,
PO Box 600,
Hampden,
MA 01036 USA
U.S.A.
413-566-0277

HARTLEY GLASSHOUSES LIMITED
Greenfield, Oldham, Lancashire OL3 7AG.

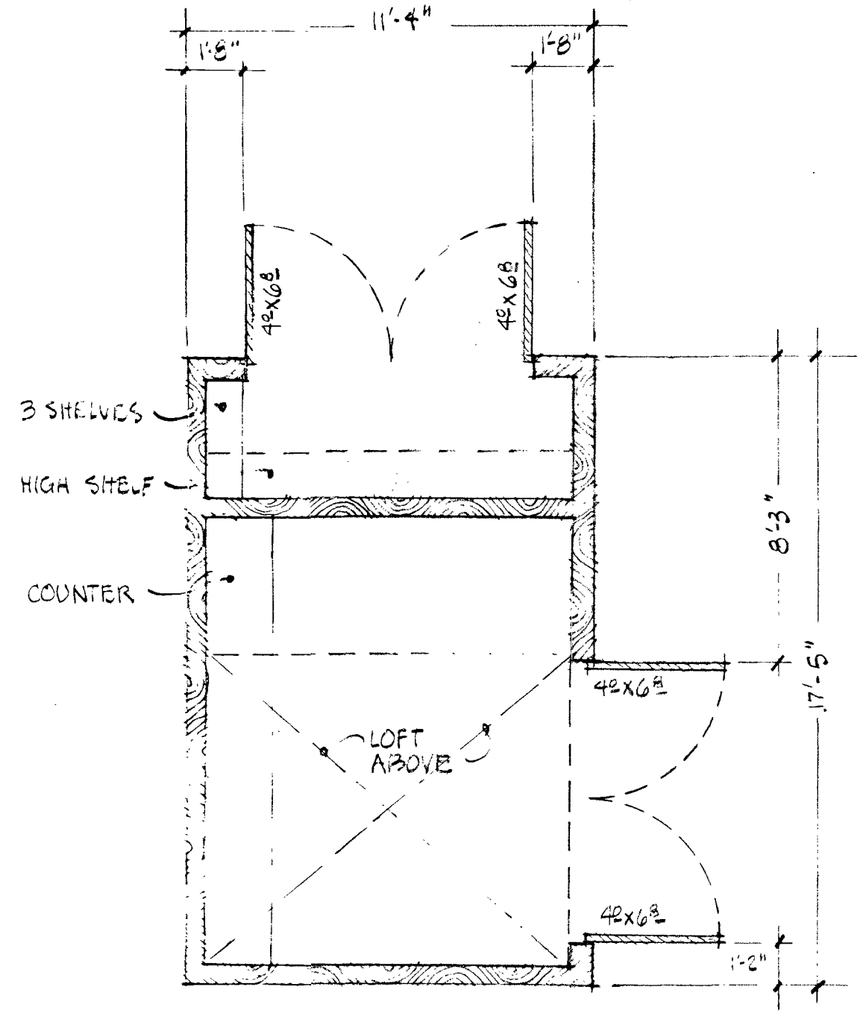
APPROVED TO CONSTRUCT
NOT A WRITTEN CERTIFICATE
AS REQUIRED BY RCW 19.27.031
SUBJECT TO FIELD INSPECTION
AND COMPLIANCE WITH CODES
JUL 10 2005

| DRAWN: KH | MODIFICATION: --- | CHECKED: APH |
|---|---|---|
| DATE: 05.08.04 | | SCALE: 1:50 |
| DRAWING No: HB6491-001 ISSUE A | | ORDER No: HB6491 |

JOB COPY

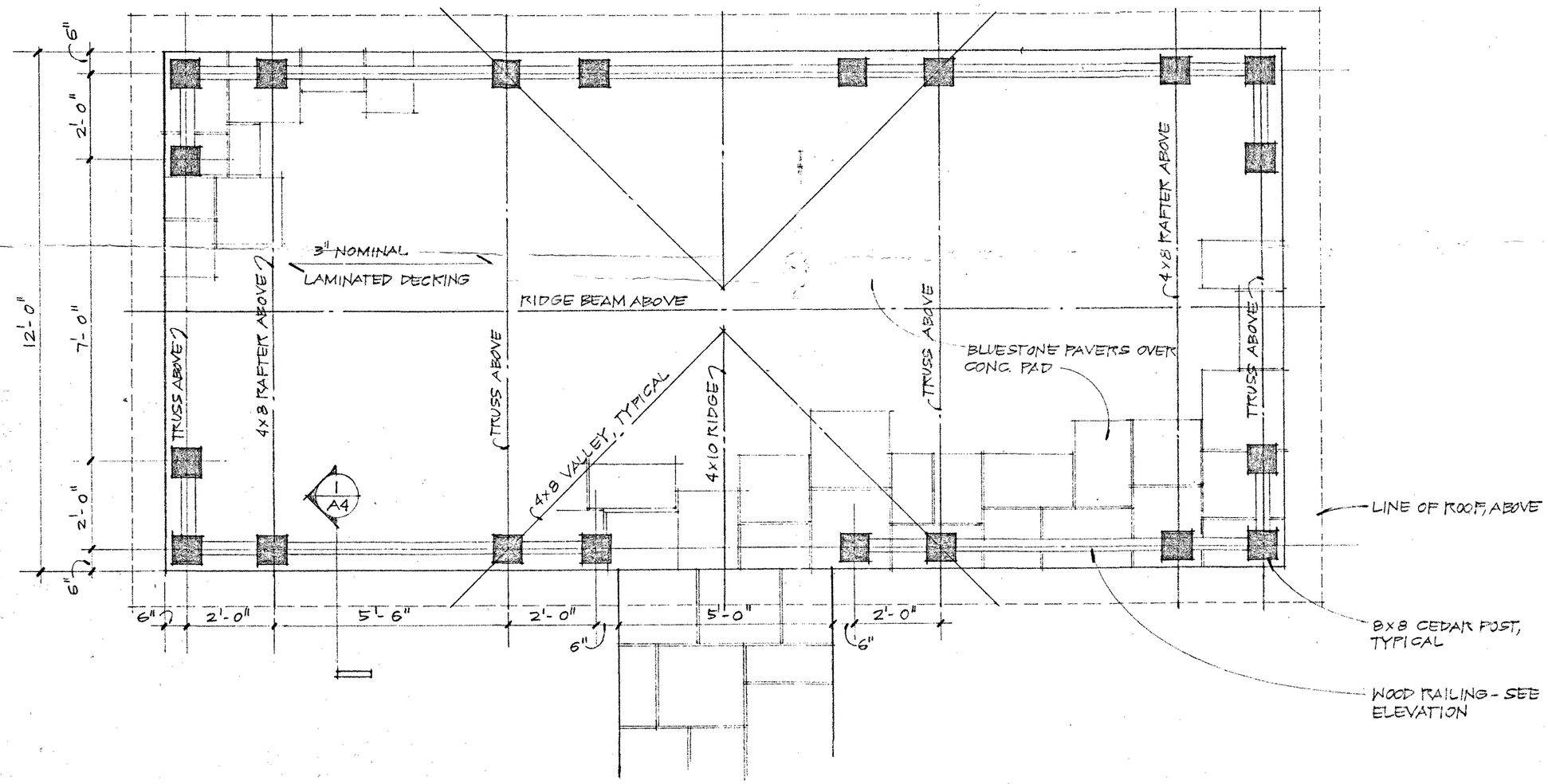



SECTION 1/4" = 1'-0"




FLOOR PLAN / CARTER UTILITY BUILDING
1/4" = 1'-0"

9/5/02

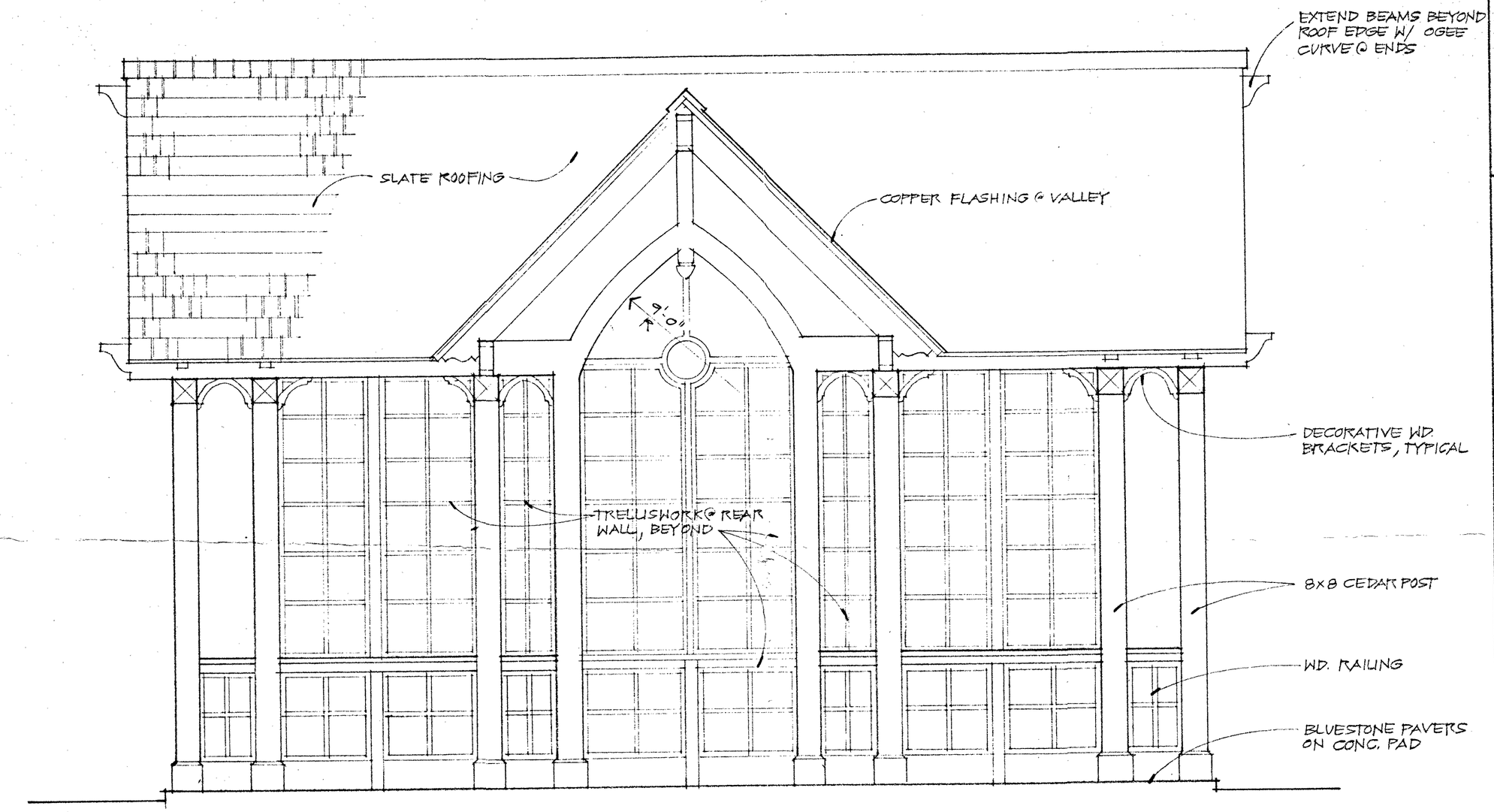



# GARDEN HOUSE · PLAN

SCALE : ½" = 1'-0"


John Steven Conway
ARCHITECTURE
163 Pinecrest Avenue • Decatur, Georgia 30030 • 404-378-5785


SHEET A-1

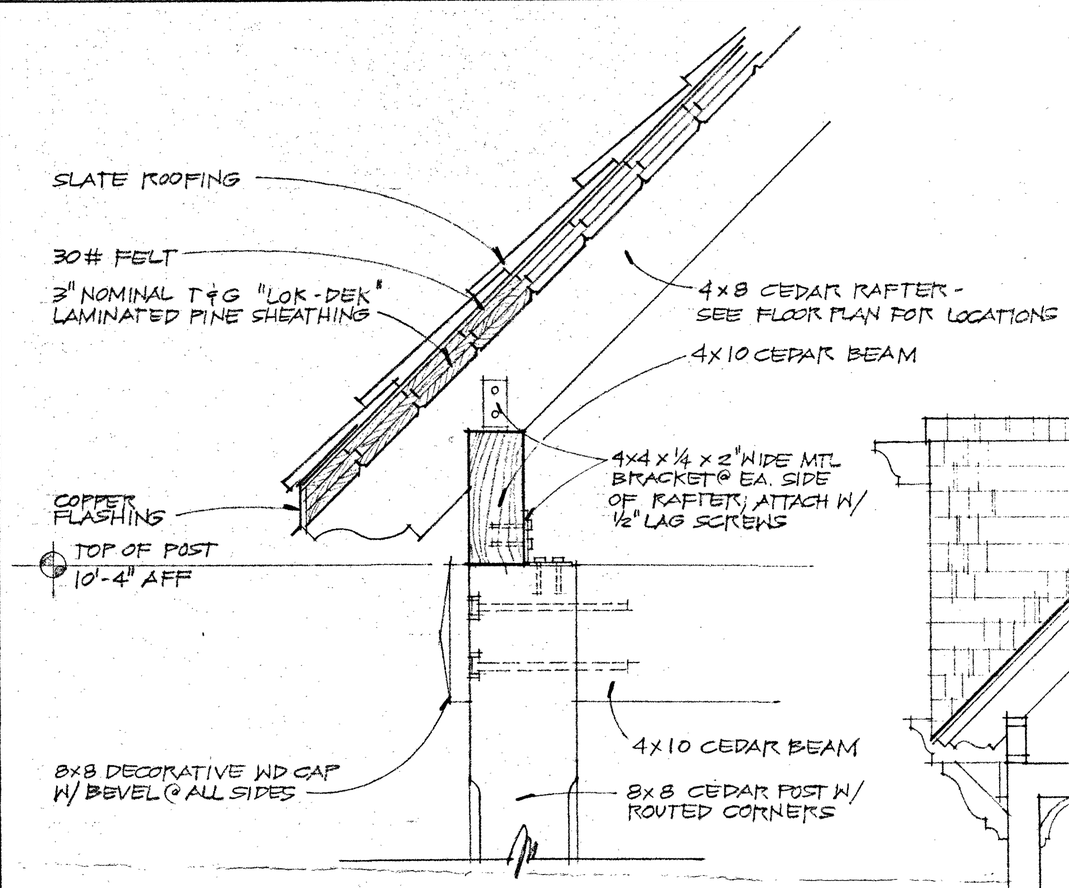



# GARDEN HOUSE · FRONT ELEVATION

SCALE: ½" = 1'-0"

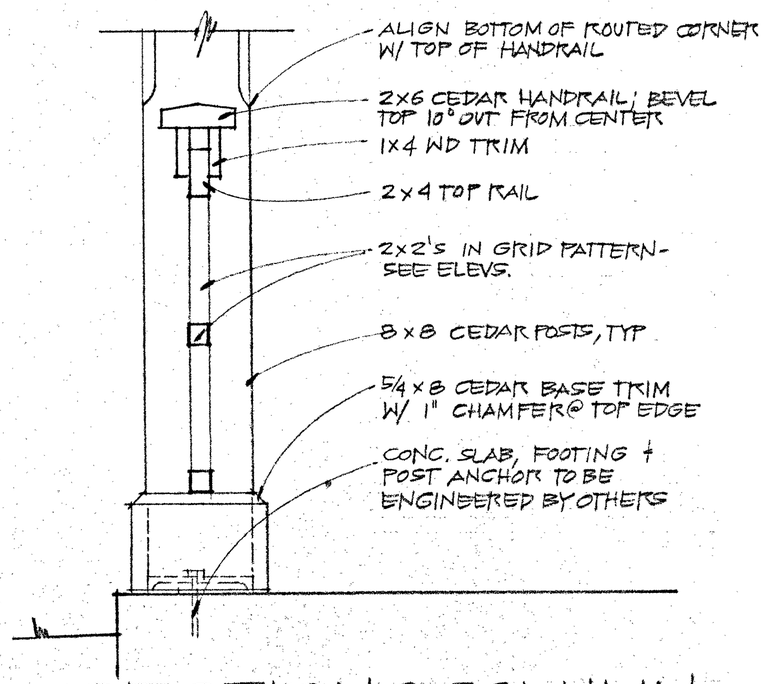
John Steven Conway
ARCHITECTURE
163 Pinecrest Avenue • Decatur, Georgia 30030 • 404•378•5787

SHEET: A-2



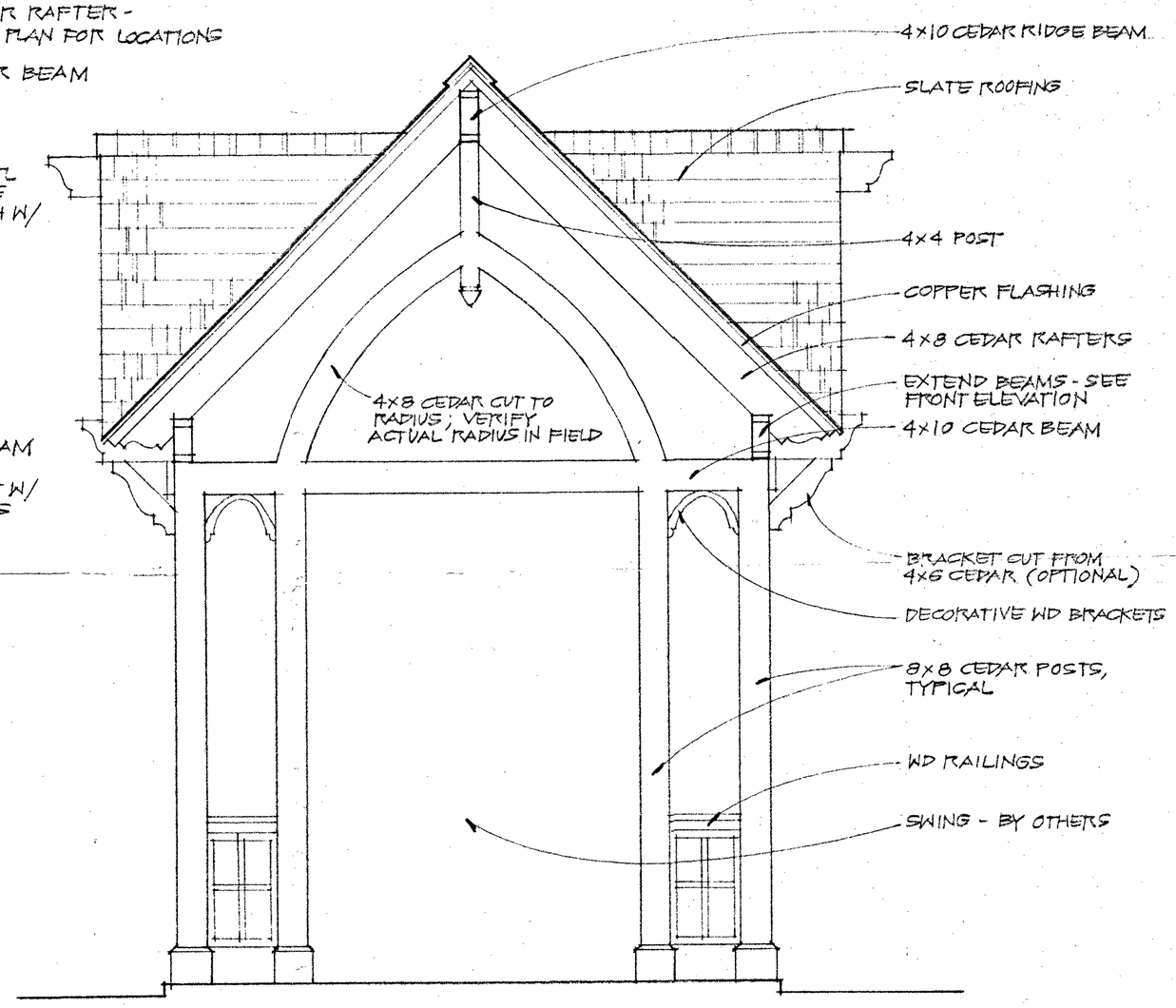

## SECTION @ ROOF

SCALE: 1 1/2" = 1'-0"




## SECTION @ COLUMN

SCALE: 1 1/2" = 1'-0"




## GARDEN HOUSE · SIDE ELEVATION

SCALE: 1 1/2" = 1'-0"

John Steven Conway
ARCHITECTURE
163 Pinecrest Avenue • Decatur, Georgia 30030 • 404-378-5787

SHEET: A-3

GENERAL NOTES:

1. All design and construction shall conform to the 2012 International Building Code.

   Under no circumstance shall structural elements be modified without the written approval of the structural engineer.

2. The contractor shall verify all dimensions and examine site conditions prior to fabrication of all items to ensure proper installation.

   The contractor shall have a complete working knowledge of standard construction and framing techniques that are commonly used in the profession. The contractor shall request clarification from the structural engineer on items that cannot be constructed as detailed or with standard construction techniques.

3. The structural drawings illustrate the completed structure with elements in their final positions. The contractor shall provide adequate shoring and bracing during construction to resist all forces including wind, seismic and unbalanced forces due to construction sequence.

4. Design Loads:
   - Snow: 25-psf
   - Roof Dead: 10-psf
   - Wind: 110-mph Exposure 'C'
   - Seismic: Zone D

5. Wood properties:

   PSL Beams
   - Fb: 2,900-psi
   - Fv: 290-psi
   - E 2,000,000-psi

   Structural framing, except studs: Douglas Fir-Larch #2
   - Fb: 850-psi
   - Ft: 500-psi
   - Fv: 170-psi
   - Fcperp: 625-psi
   - Fcpar: 1400-psi
   - E 1,600,000-psi

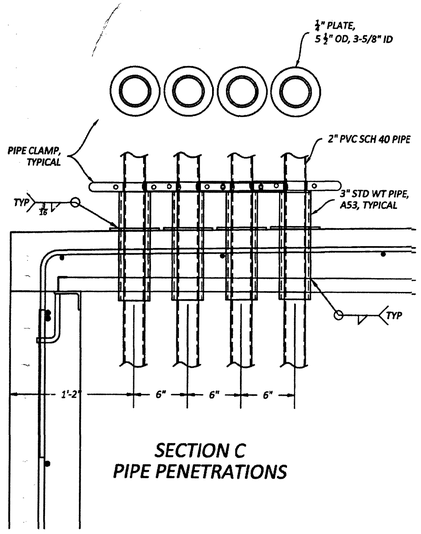
   Studs: SPF stud
   - Fb: 575-psi
   - Ft: 275-psi
   - Fv: 140-psi
   - E 1,100,000-psi

6. Reinforcing steel:
   - Deformed bars: ASTM-A615 Grade 60
   - Welded wire fabric: ASTM-A185
   - Cover:
     - 3", concrete surfaces cast against earth,
     - 2", formed surfaces exposed to earth
     - 1-1/2", ties to concrete face, not exposed to earth.

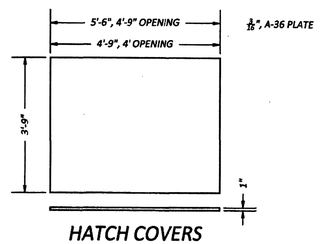
7. Rods:
   - ASTM-A36 galv.
   - 3"x3"x1/4" washers and standard nuts required for anchor bolt.

8. Amended Construction Documents (IBC 106.4)

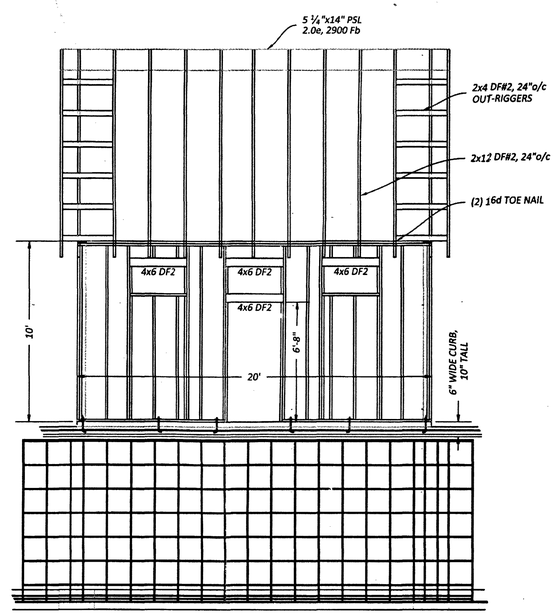
   Work shall be installed in accordance with the approved construction documents, and any changes made during construction that are not in compliance with the approved construction documents shall be submitted to the Engineer in responsible charge who shall review them and forward them to the building official with notation indicating that the changed conditions have been found to be in general conformance to the design of the building.



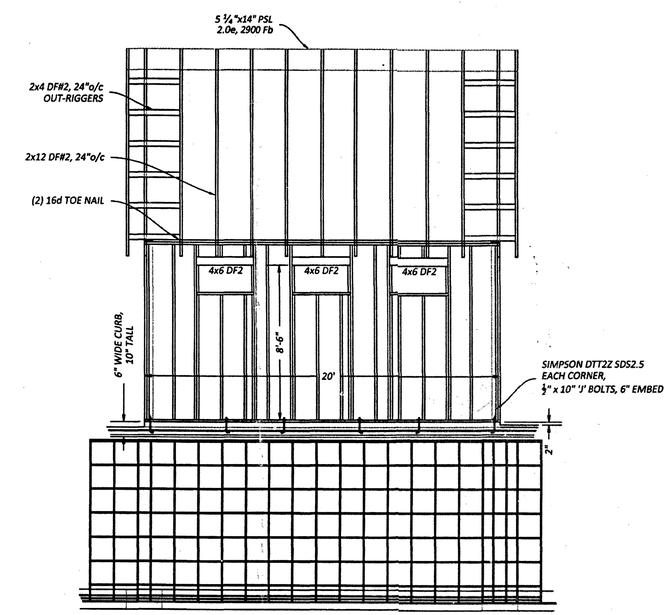

SECTION C
PIPE PENETRATIONS



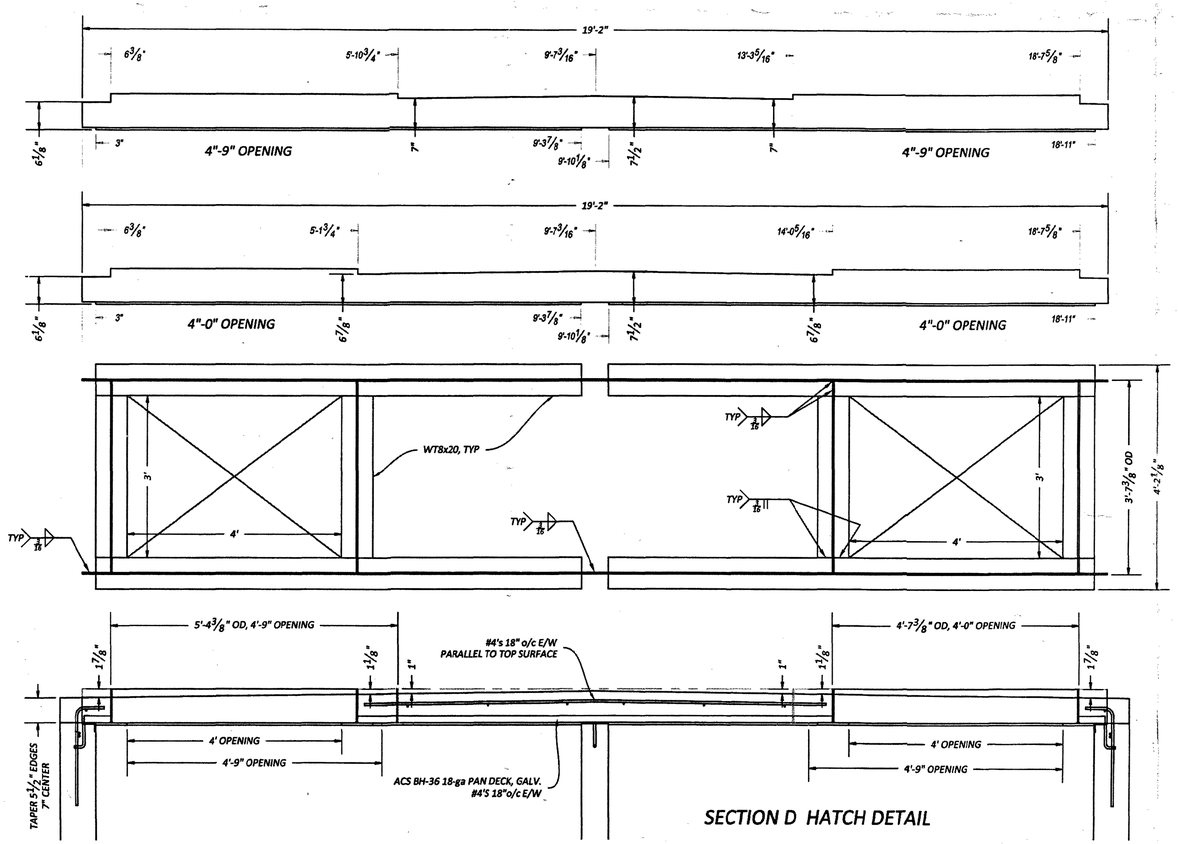

HATCH COVERS



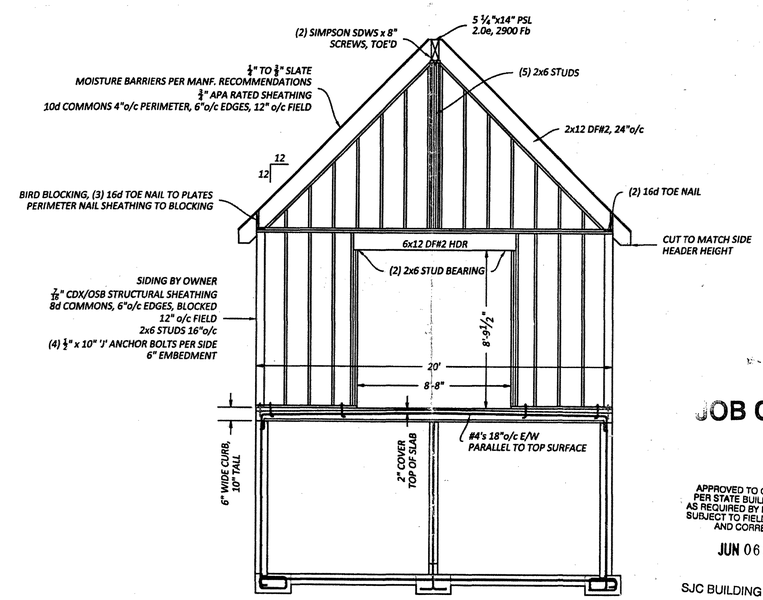

NORTH ELEVATION




SOUTH ELEVATION




SECTION D HATCH DETAIL




EAST & WEST ELEVATIONS

JOB COPY

APPROVED TO CONSTRUCT PER STATE BUILDING CODES AS REQUIRED BY RCW 19.27.031 SUBJECT TO FIELD INSPECTION AND CORRECTION

JUN 06 2014

SJC BUILDING DIVISION

S.J.C. COMMUNITY
JUN 02 2014
DEVELOPMENT & PLANNING

| No. | Date | Description |
|---|---|---|
| | | REVISIONS |

Prepared For:
**Michael Carter**
678 Primrose Ln.
Friday Harbor, WA
818-439-0498

GARY L. STURDY
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
5/28/14


STURDY ENGINEERING
CORPORATION
Phone: (360) 299-2511 FAX: (360) 299-2698
7168 San Juan Hill Lane, Anacortes, WA 98221


Sheet Description: **ELEVATIONS, DETAILS, NOTES**
Project Title: **PROPOSED CISTERN**
Location: **678 Primrose Ln., Friday Harbor, WA**

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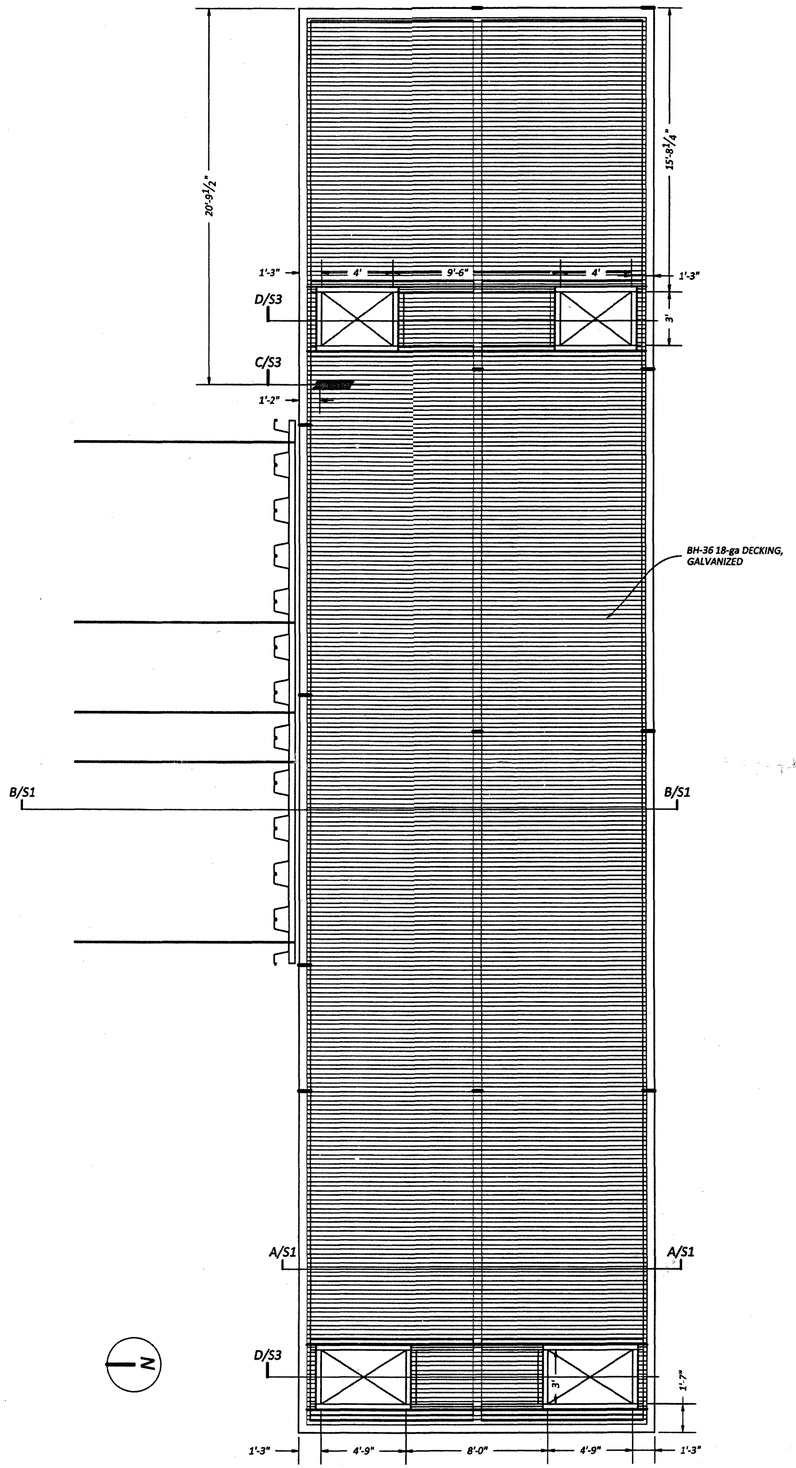
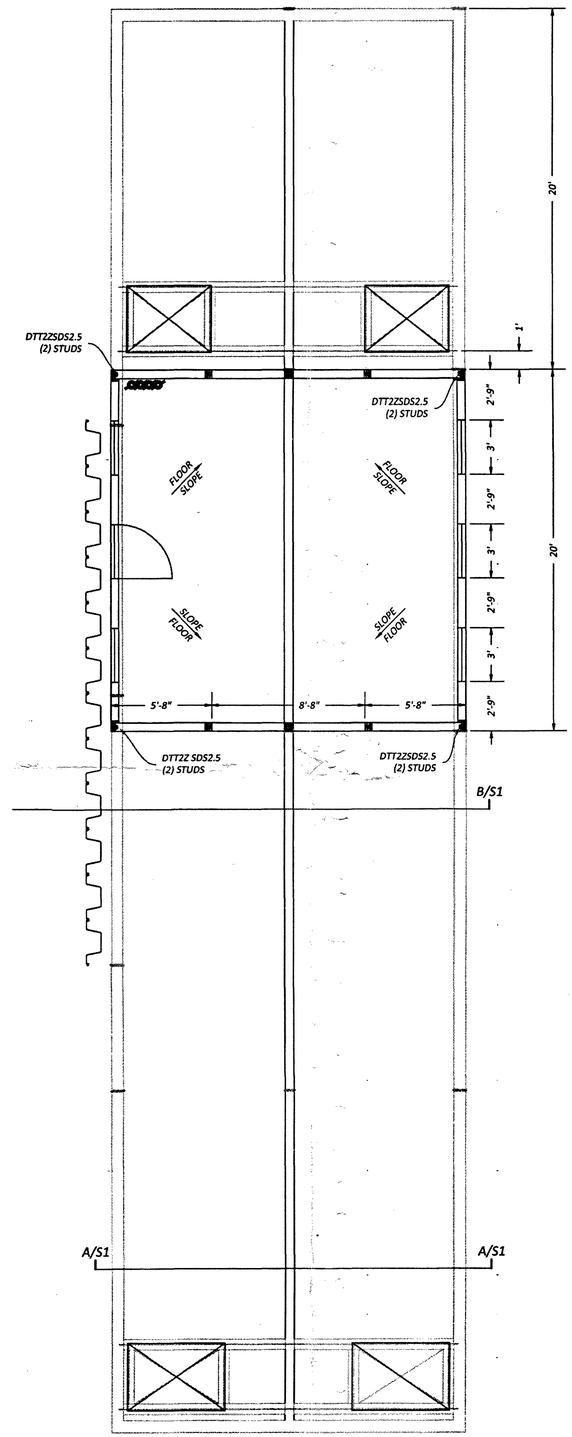
| | |
|---|---|
| Project Engineer: | GLS |
| Drawn By: | GLS |
| Drawing: | 1707-001 |
| Date: | 2/4/2014 |
| Job: | 1707-001 |



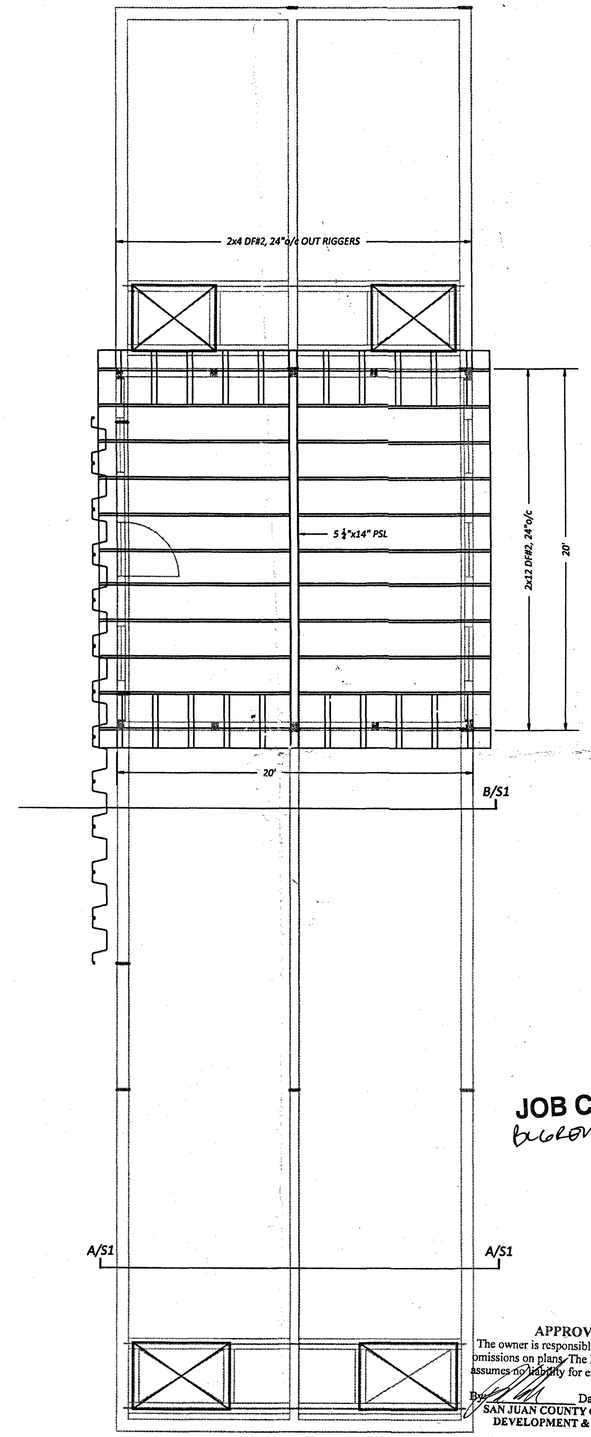

PAN DECKING, OPENINGS

1/4" = 1'-0"




WALL FRAMING

1/4" = 1'-0"




ROOF FRAMING

1/4" = 1'-0"

JOB COPY
BLDR-14-0051

APPROVED
The owner is responsible for all errors or omissions on plans. The Building Division assumes no liability for errors or omissions
By: Date: 6/6/14
SAN JUAN COUNTY COMMUNITY DEVELOPMENT & PLANNING

APPROVED TO CONSTRUCT PER STATE BUILDING CODES AS REQUIRED BY RCW 19.27.031 SUBJECT TO FIELD INSPECTION AND CORRECTION
JUN 06 2014
SJC BUILDING DIVISION

S.J.C. COMMUNITY
JUN 02 2014
DEVELOPMENT & PLANNING

| No. | Date | Description |
|---|---|---|
| | | REVISIONS |

Prepared For:
**Michael Carter**
678 Primrose Ln.
Friday Harbor, WA
818-439-0498

STURDY ENGINEERING CORPORATION
Phone: (360) 299-2511 FAX: (360) 299-2698
7168 San Juan Hill Lane, Anacortes, WA 98221

Sheet Description: **CISTERN PLAN**
Project Title: **PROPOSED CISTERN**
Location: **678 Primrose Ln., Friday Harbor, WA**

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| | |
|---|---|
| Project Engineer: | GLS |
| Drawn By: | GLS |
| Drawing: | 1707-001 |
| Date: | 2/4/2014 |
| Job: | 1707-001 |

AN EXISTING BUILDING IS LOCATED WITHIN 2' OF THE PROPOSED CISTERN.

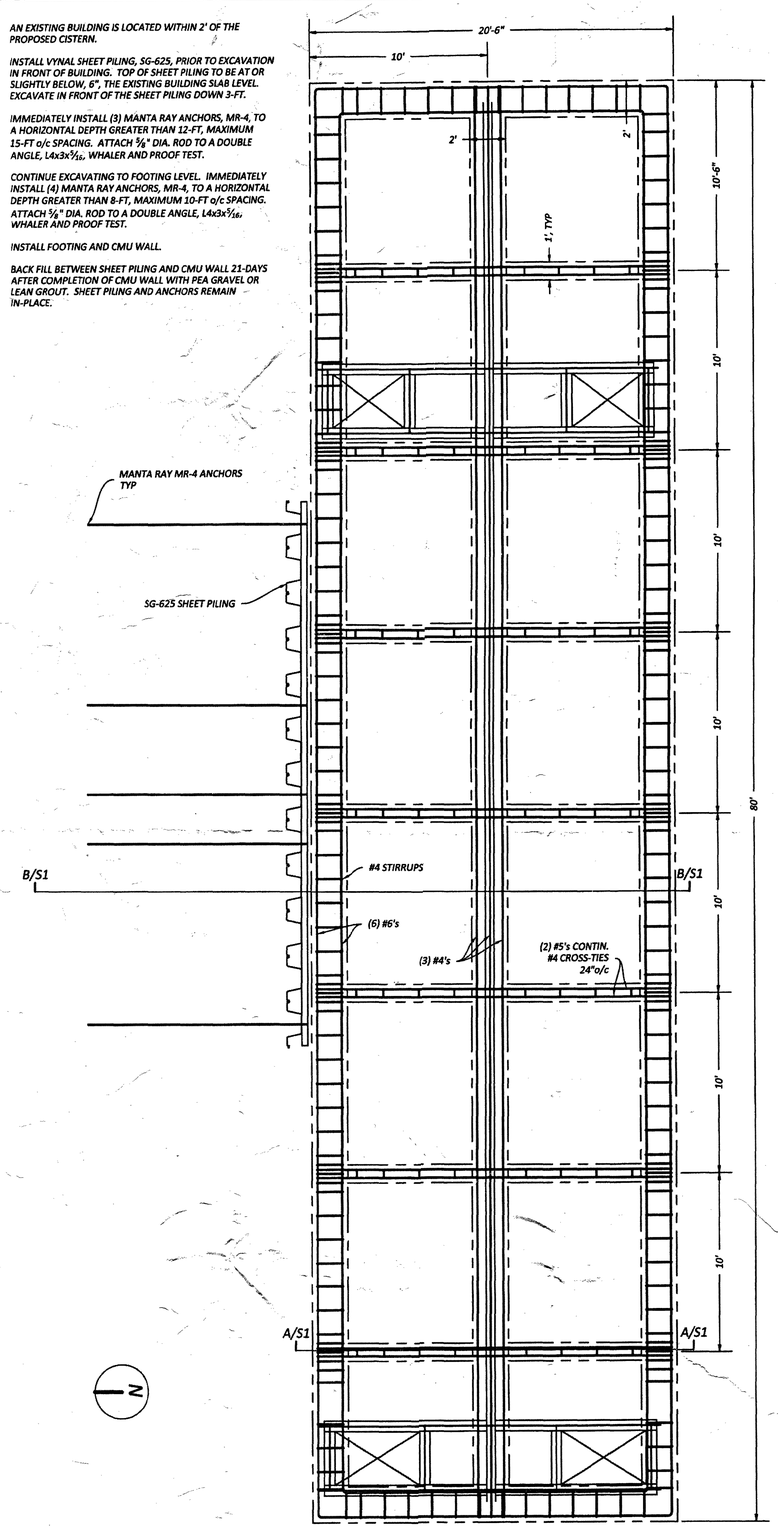
INSTALL VYNAL SHEET PILING, SG-625, PRIOR TO EXCAVATION IN FRONT OF BUILDING. TOP OF SHEET PILING TO BE AT OR SLIGHTLY BELOW, 6", THE EXISTING BUILDING SLAB LEVEL. EXCAVATE IN FRONT OF THE SHEET PILING DOWN 3-FT.

IMMEDIATELY INSTALL (3) MANTA RAY ANCHORS, MR-4, TO A HORIZONTAL DEPTH GREATER THAN 12-FT, MAXIMUM 15-FT o/c SPACING. ATTACH ⅝" DIA. ROD TO A DOUBLE ANGLE, L4x3x5/16, WHALER AND PROOF TEST.

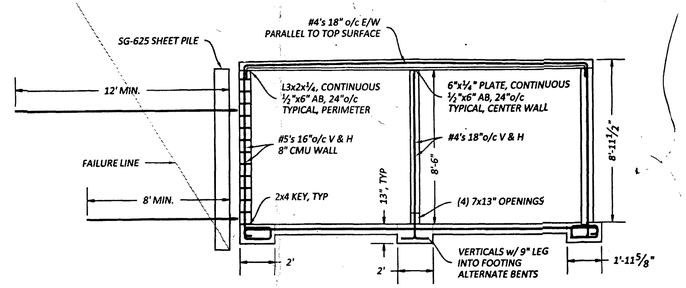
CONTINUE EXCAVATING TO FOOTING LEVEL. IMMEDIATELY INSTALL (4) MANTA RAY ANCHORS, MR-4, TO A HORIZONTAL DEPTH GREATER THAN 8-FT, MAXIMUM 10-FT o/c SPACING. ATTACH ⅝" DIA. ROD TO A DOUBLE ANGLE, L4x3x5/16, WHALER AND PROOF TEST.

INSTALL FOOTING AND CMU WALL.

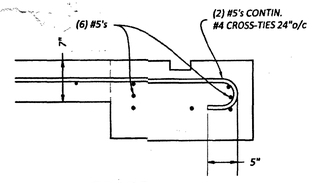
BACK FILL BETWEEN SHEET PILING AND CMU WALL 21-DAYS AFTER COMPLETION OF CMU WALL WITH PEA GRAVEL OR LEAN GROUT. SHEET PILING AND ANCHORS REMAIN IN-PLACE.



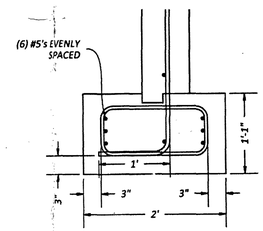

FOUNDATION PLAN



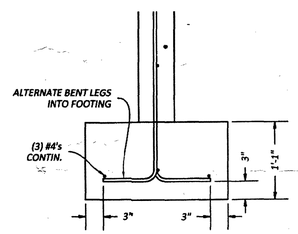

SECTION B



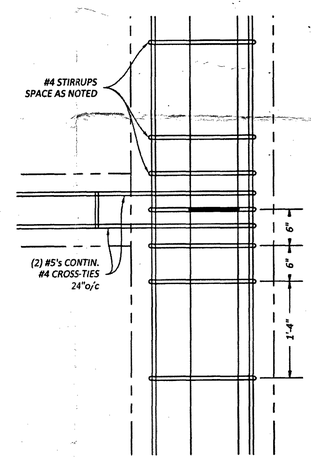

GRADE BEAM TIE

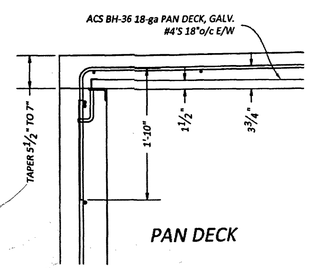



PERIMETER FOOTING

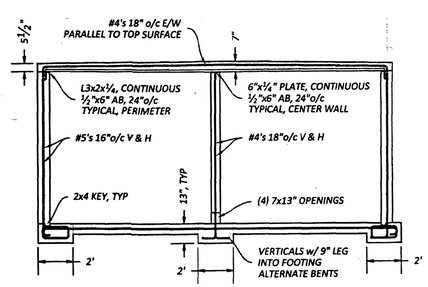



INTERIOR FOOTING




PAN DECK




SECTION A

NOTES:

CONCRETE:
- FOOTINGS — F'c = 2,500-psi
- WALLS — F'c = 3,000-psi

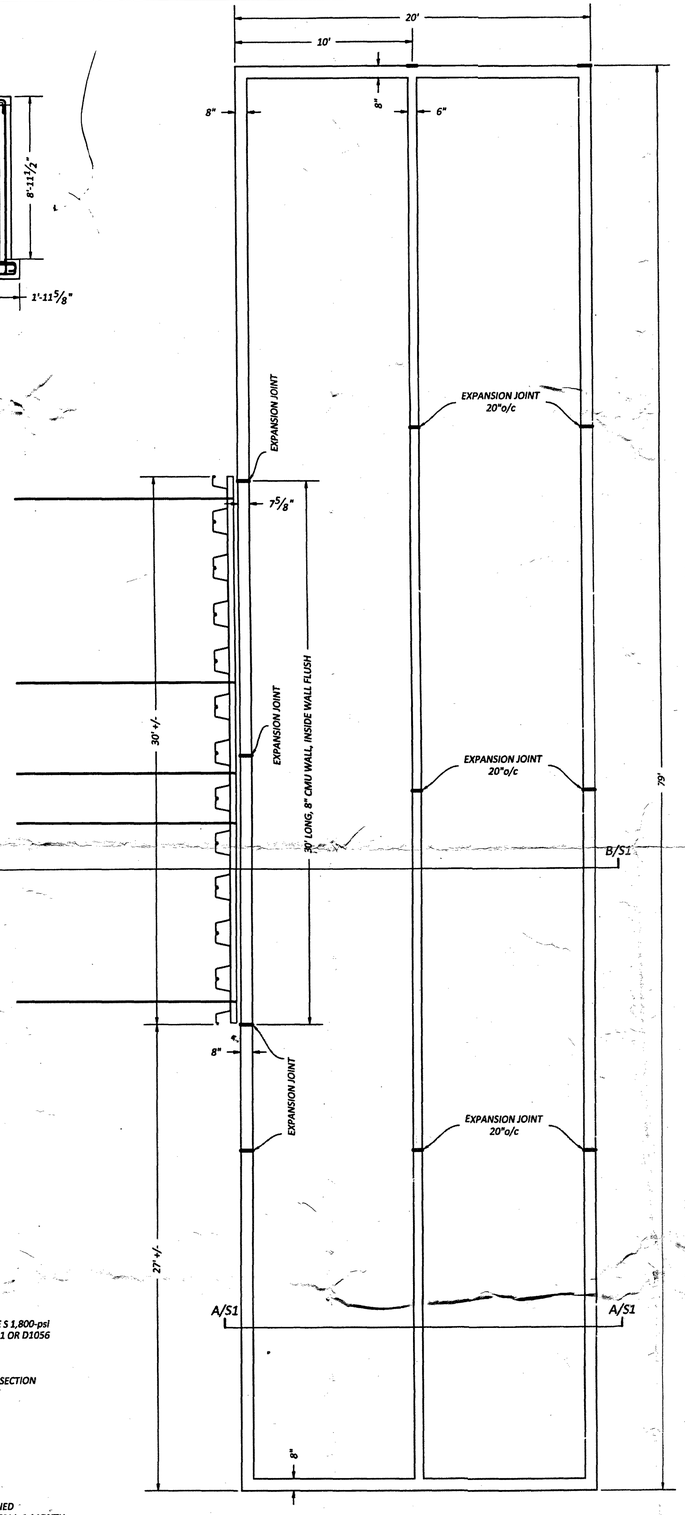
MASONRY:
- BLOCK — ASTM C90
- MOTAR — ASTM C270 TYPE S 1,800-psi
- EXPANSION JOINTS — ASTM C920, D991 OR D1056

PAN DECK:
- ASC BH-36 18-ga GALVANIZED
- PUDDLE WELD AT SUPPORTS, (4) PER 3' SECTION
- #4'S 18"o/c E/W SLAB REINFORCEMENT

REINFORCING STEEL:
- ASTM A615, 60-ksi

SHEET PILE:
- SHOREGUARD VINYL SG-625

DESIGN CRITERIA:
- SOIL BEARING — 1,500-psf
- LATERAL PRESSURE — 60-psf, RESTRAINED
- SHEET PILE — 20-psf, SHORT TERM, 1-MONTH
- ROOF — 25-psf SNOW; 50-psf LIVE




WALL PLAN

| No. | Date | Description |
|---|---|---|
| | | |

REVISIONS

Prepared For:
**Michael Carter**
678 Primrose Ln.
Friday Harbor, WA
818-439-0498

GARY L. STURDY, STATE OF WASHINGTON, REGISTERED PROFESSIONAL ENGINEER, 51938, 2/4/14


STURDY ENGINEERING CORPORATION
Phone: (360) 299-2511 FAX: (360) 299-2698
7168 San Juan Hill Lane, Anacortes, WA 98221


Sheet Description: **CISTERN PLAN**

Project Title: **PROPOSED CISTERN**

Location: **678 Primrose Ln., Friday Harbor, WA**

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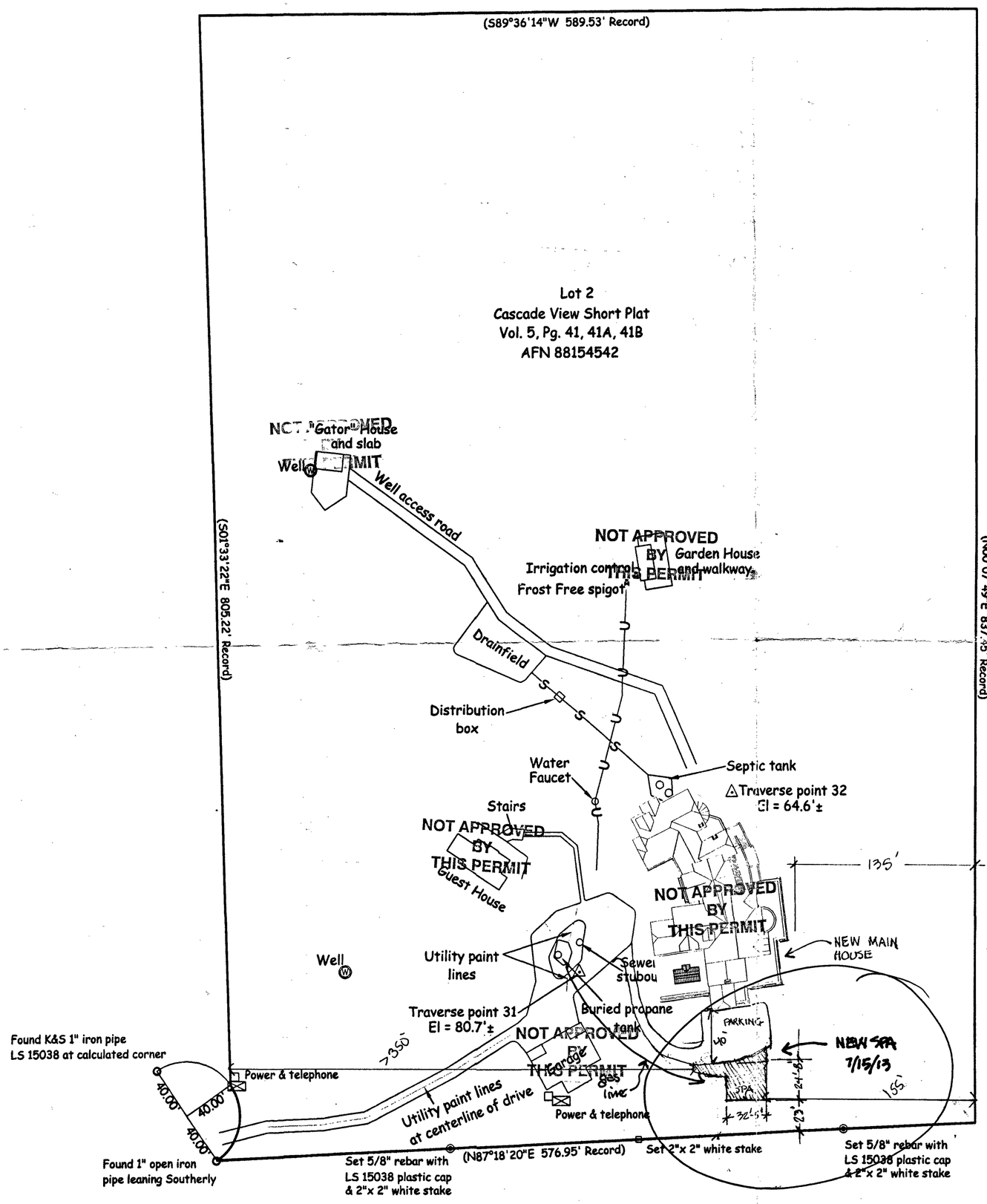
| | |
|---|---|
| Project Engineer: | GLS |
| Drawn By: | GLS |
| Drawing: | 1707-001 |
| Date: | 2/4/2014 |
| Job: | 1707-001 |
| Sheet: | S1 OF 3 |




## Notes

1. This is a topographic survey. As such it is not required to be recorded per AGO #1 to the Survey Recording Act. For more Survey information, please refer to Volume 5 of Short Plats, Pages 41, 41A, & 41B, records of San Juan County, Washington.

2. This drawing does not purport to show any recorded or unrecorded easements.

SAN JUAN COUNTY APPROVED SITE PLAN
SETBACKS SHOWN MEET MINIMUM REQUIREMENTS. ANY RELOCATION OR CHANGE TO THE PROPOSED LOCATION OF THE STRUCTURE SHALL FIRST RECEIVE APPROVAL OF A REVISED SITE PLAN FROM SAN JUAN COUNTY CD&P.
Permit No. Build6-13-0147
By AMC Date 8/15/13

S.J.C. COMMUNITY
JUL 15 2013
DEVELOPMENT & PLANNING

GRAPHIC SCALE
60 0 30 60 120 240
( IN FEET )
1 inch = 60 ft.

JOB COPY
BUILD6-13-0147

THOMAS C. STARR
STATE OF WASHINGTON
15038
REGISTERED
PROFESSIONAL LAND SURVEYOR
EXPIRES 7/21/03
1/15/03

min setbacks = 15'

REVISED 5/10/05

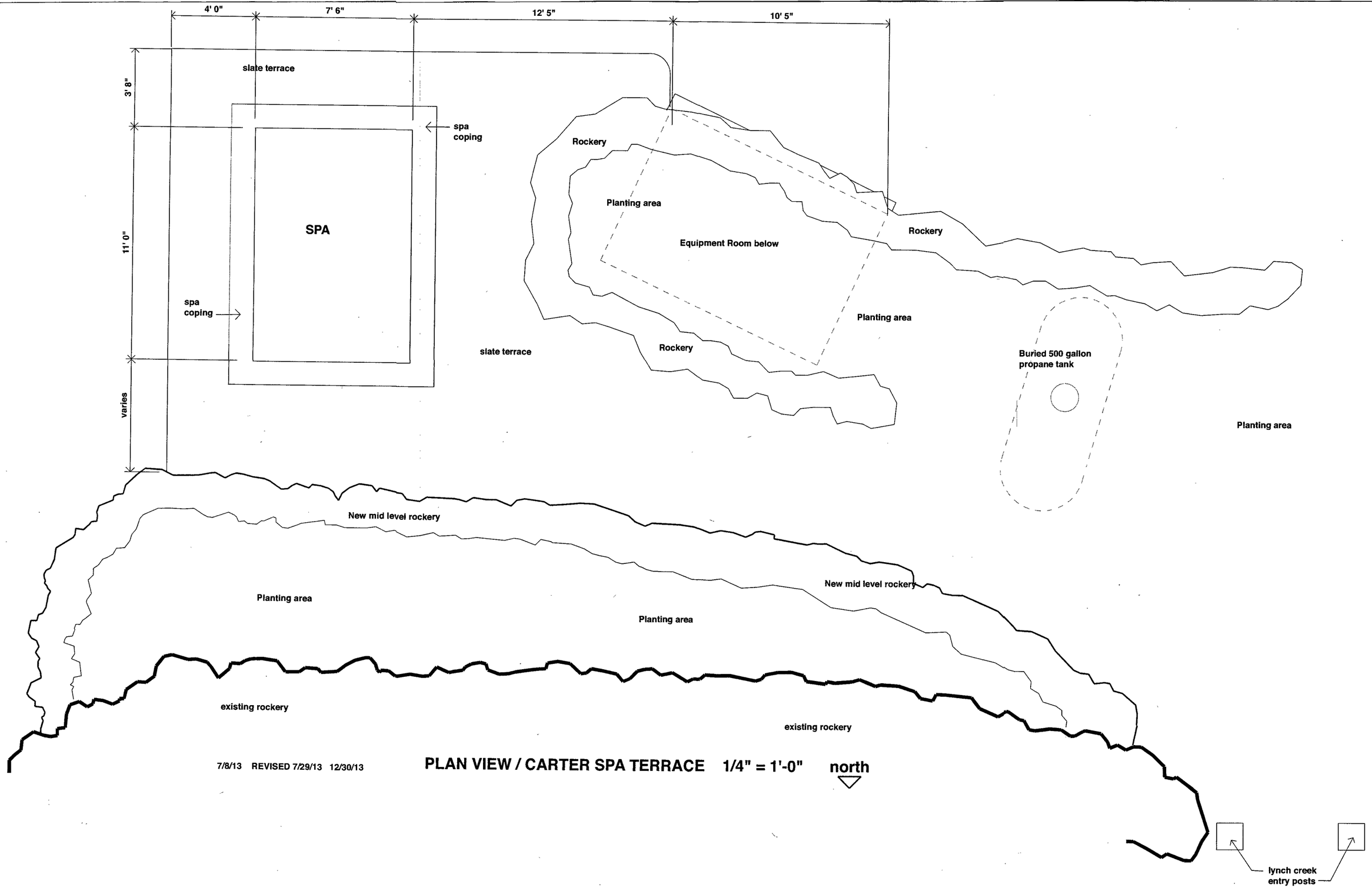
# SITE MAP

Prepared for
## Michael Carter
A portion of the SW-NW, Sec. 34,
Twnshp 36 North, Range 3 West, W.M.
San Juan Island, San Juan County, WA

THOMAS C. STARR & ASSOC., INC.
P.O. BOX 2997
FRIDAY HARBOR
(360)378-5072
WASHINGTON 98250
CIVIL ENGINEERING LAND SURVEYING PLANNING

| | | |
|---|---|---|
| CAD BY: STM | DATE: 8/2/01 | JOB NO.: 641 |
| CHK BY: TCS | Rev: 8/3/01 8/30/02 10/29/02 | SCALE: 1"=60' |
| FLD BK: 42,49,50 | | ACAD VER 14.0 |

SURVEYED BY FIELD TRAVERSE WITH A TOPCON GTS-211D 5" SYSTEM




7/8/13 REVISED 7/29/13 12/30/13

**PLAN VIEW / CARTER SPA TERRACE 1/4" = 1'-0"**

north

# IDEAS FOR DEVELOPING THE SOUTH MEADOW AT EAGLES NEST

**See attached conceptual drawings.**

1. **Vegetable Farm**
   The south facing meadow slopes to the south giving it maximum sun exposure for growing vegetables and fruit trees. A small fenced pasture could support chickens, sheep, or goats.
   See attached concept drawing.

2. **Swimming Pond**
   Imagine a small island in a pond as long as a football field. Relax on a sand beach or have a meal in the picnic shelter on the pond-side terrace. Cabanas on the terrace and a gazebo across the pond complete the experience.
   See attached concept drawing.

3. **Guest Enclave**
   The building code allows two guest houses on the meadow, each with terraces and gardens, in this case overlooking a full size outdoor swimming pool. Privacy would be enhanced by including a separate driveway, parking area and 3 car garage.
   See attached concept drawing.

4. **Horse Ranch**
   Many residents of san Juan Island have horses. The south meadow is sunny and well drained, making it ideal for pasture. The garage and equipment shed, and the 3-horse stable would be accessed from a separate driveway. A small onsite cottage could be used by a caretaker or guests.
   See attached concept drawing.

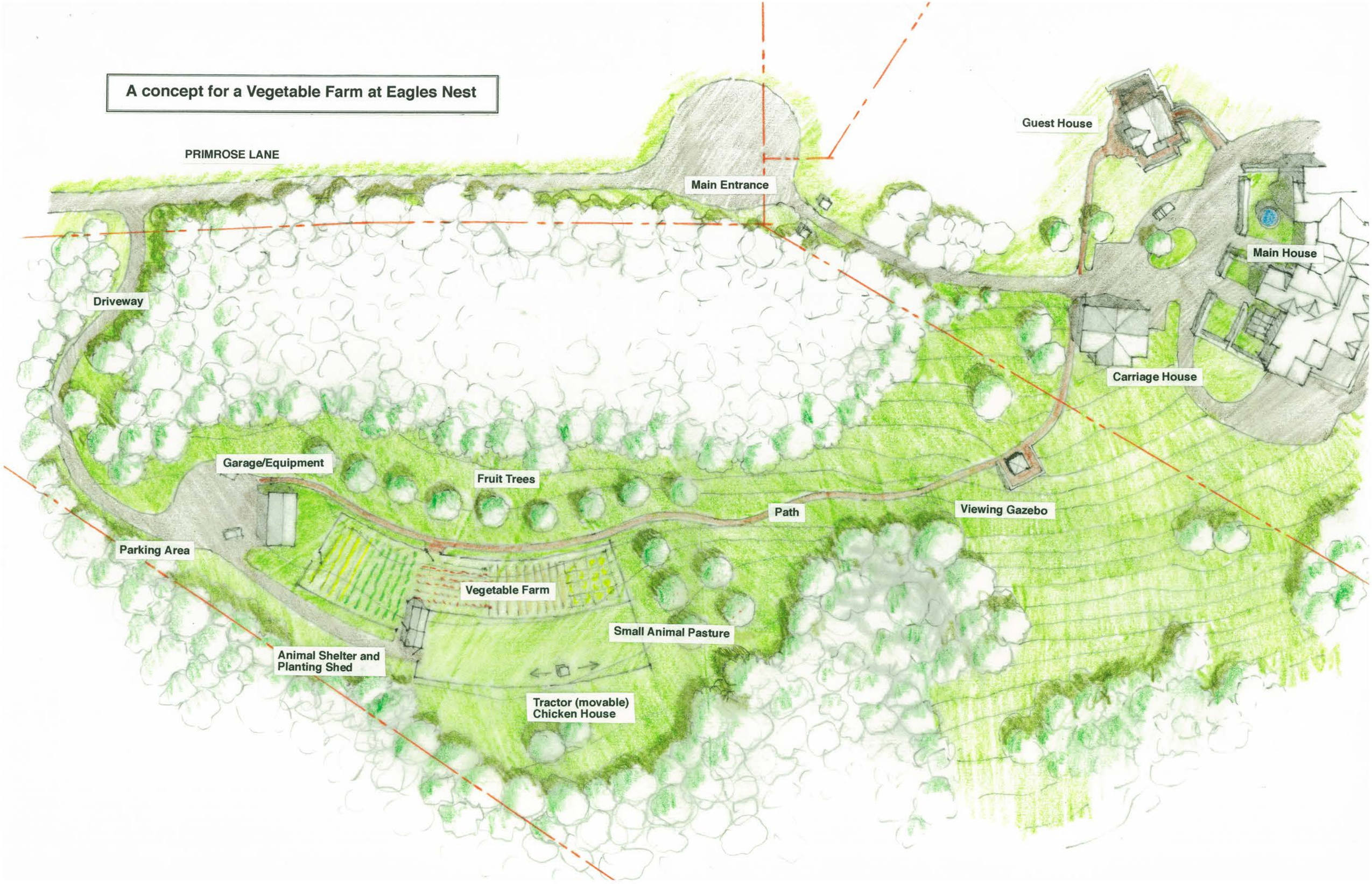
5. **Meadow Fitness**
   The meadow is over an acre in size. Room enough for a tennis court and/or a swimming pool, as well as a lanai, media pavilion and a lawn for lawn games.

6. **Artist Retreat**
   The separate driveway and surrounding woods make this a very private spot. A couple of small writer's studios could be complemented by a nearby slightly larger artist studio and sculpture yard. Sculptures and artifacts could be scattered throughout the meadow.

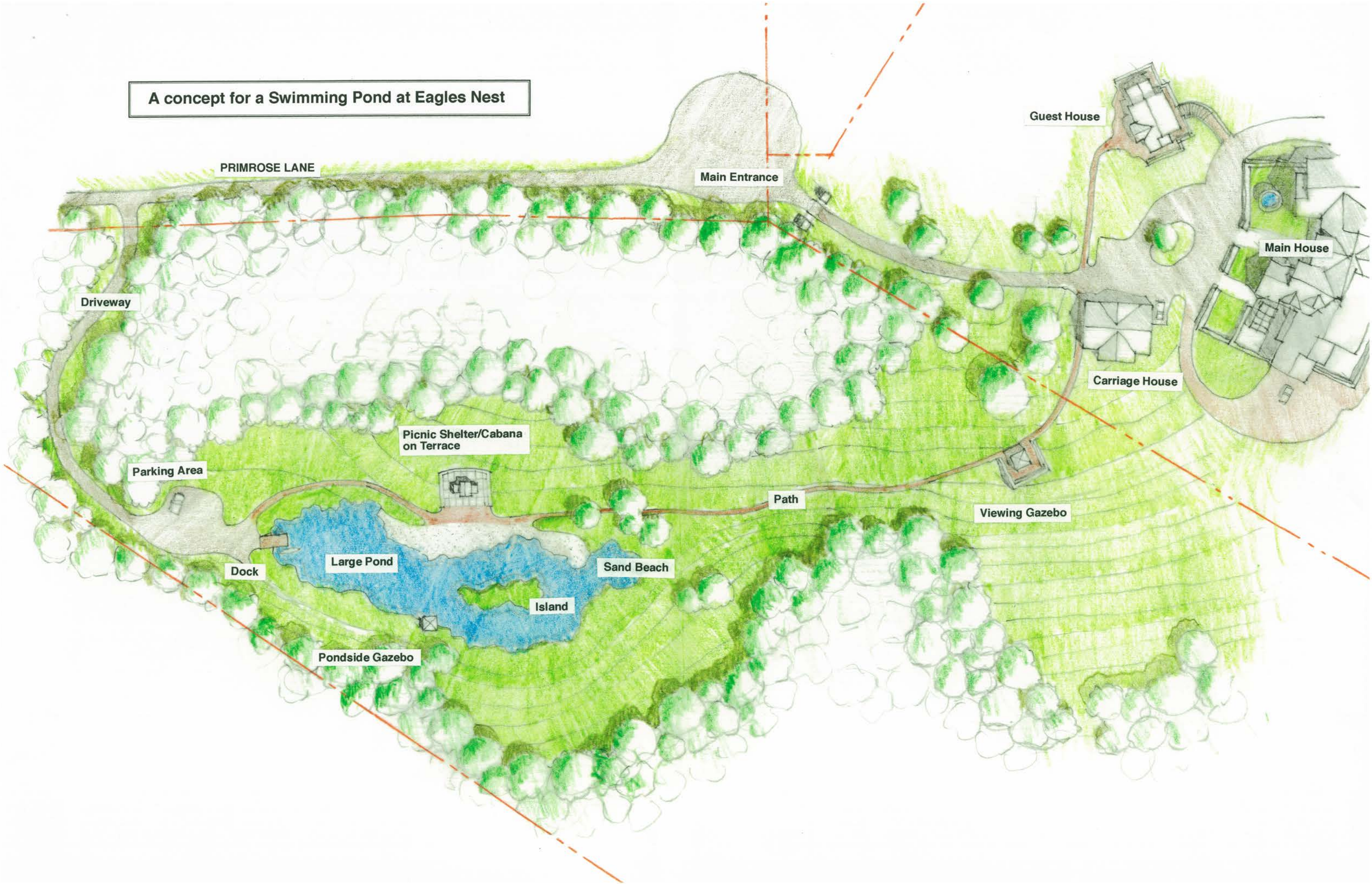
7. **Garden Paradise**
   Imagine strategically placed shade trees in an acre of lush gardens and paths, a series of small ponds, and sleeping pavilions in a small Japanese garden.

8. **What's your idea?**

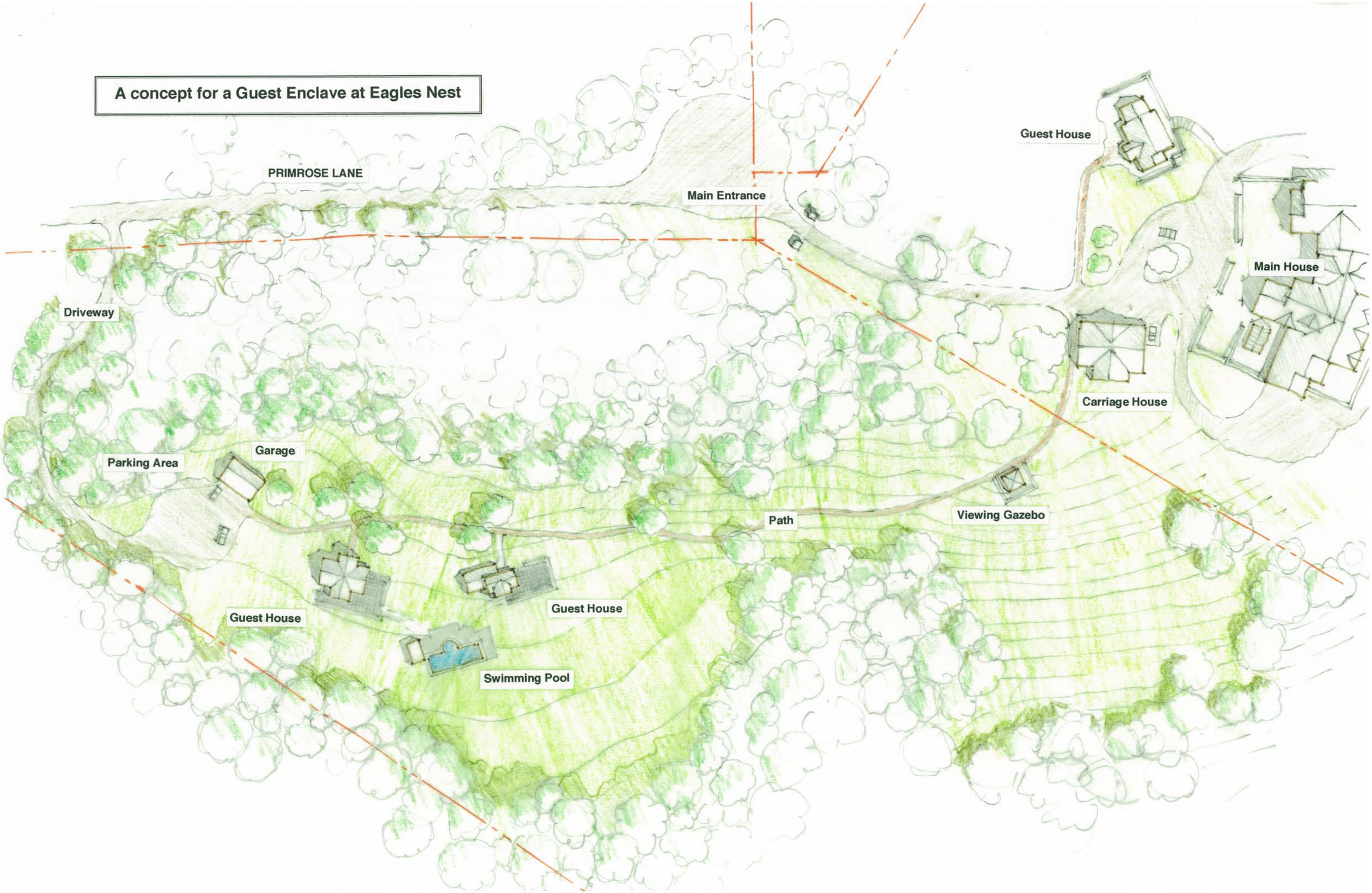
# A concept for a Vegetable Farm at Eagles Nest



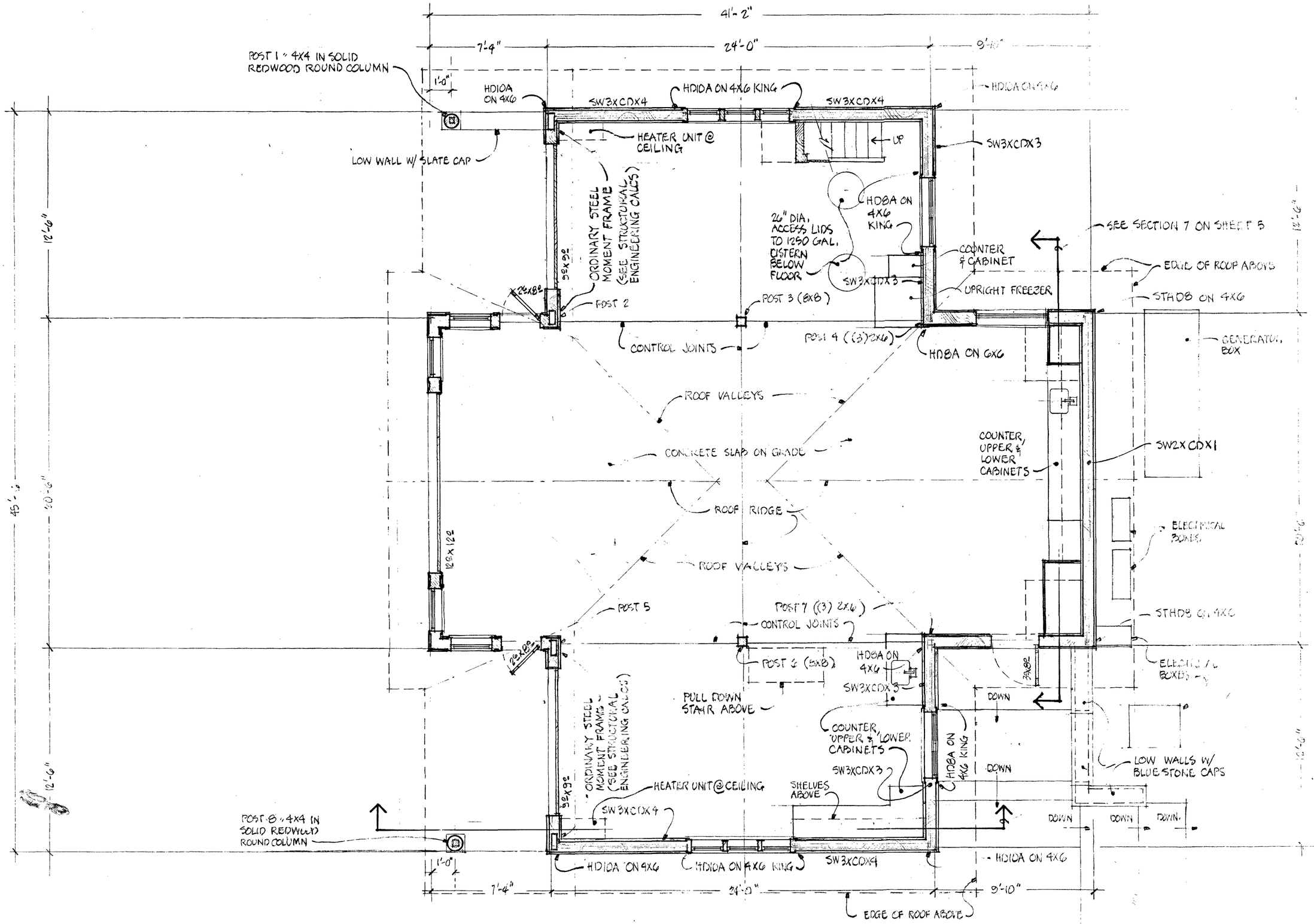
# A concept for a Swimming Pond at Eagles Nest



# A concept for a Guest Enclave at Eagles Nest



A concept for a Horse Ranch at Eagles Nest
PRIMROSE LANE
Main Entrance
Guest House
Main House
Driveway
Carriage House
Guest House/
Ranch House
Garage/Equipment
Pond
Path
Viewing Gazebo
Parking Area
3 Horse Stables
and hay storage
Horse Pastures



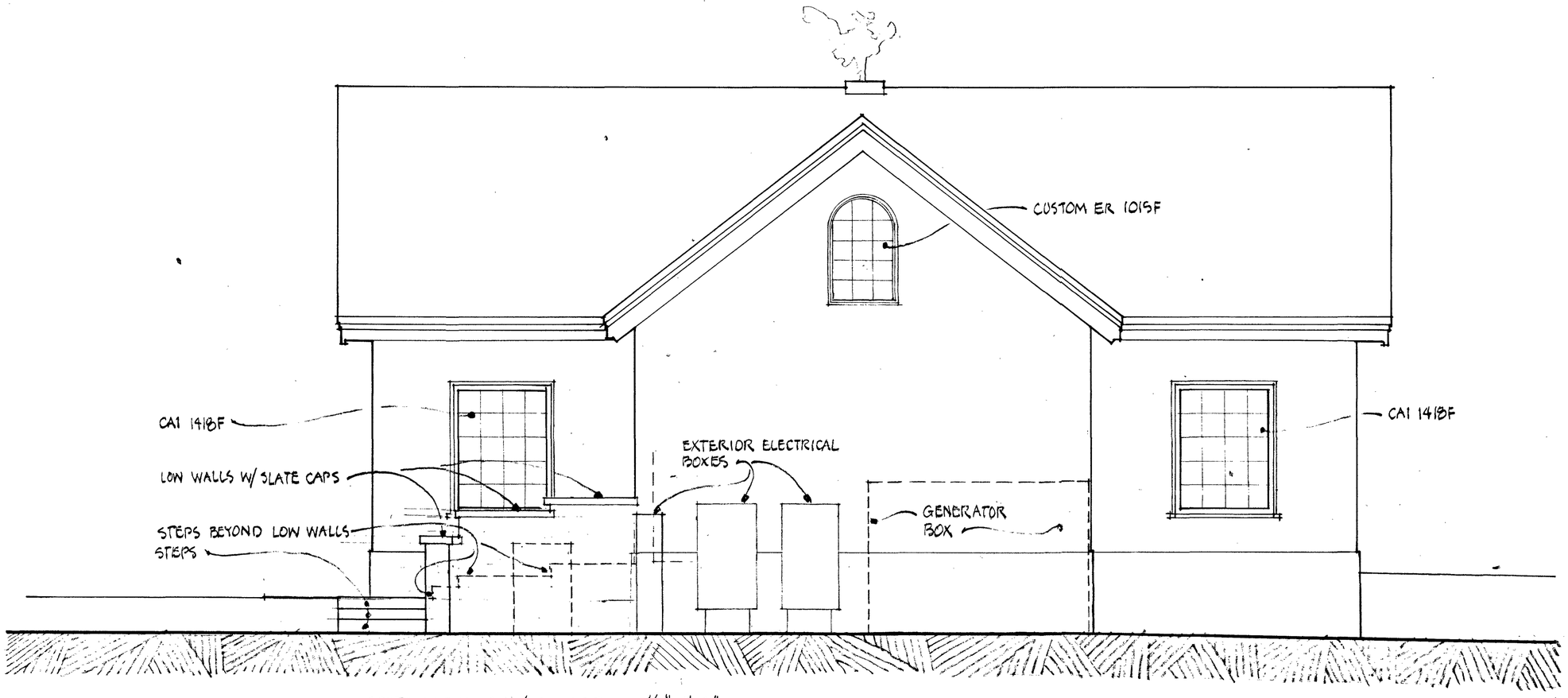

**2 FLOOR PLAN 1/4" = 1'-0"**

5/9/00 REVISED 10/12/00 (SHEAR WALLS) REVISED 7/15/02 REVISED 9/1/02

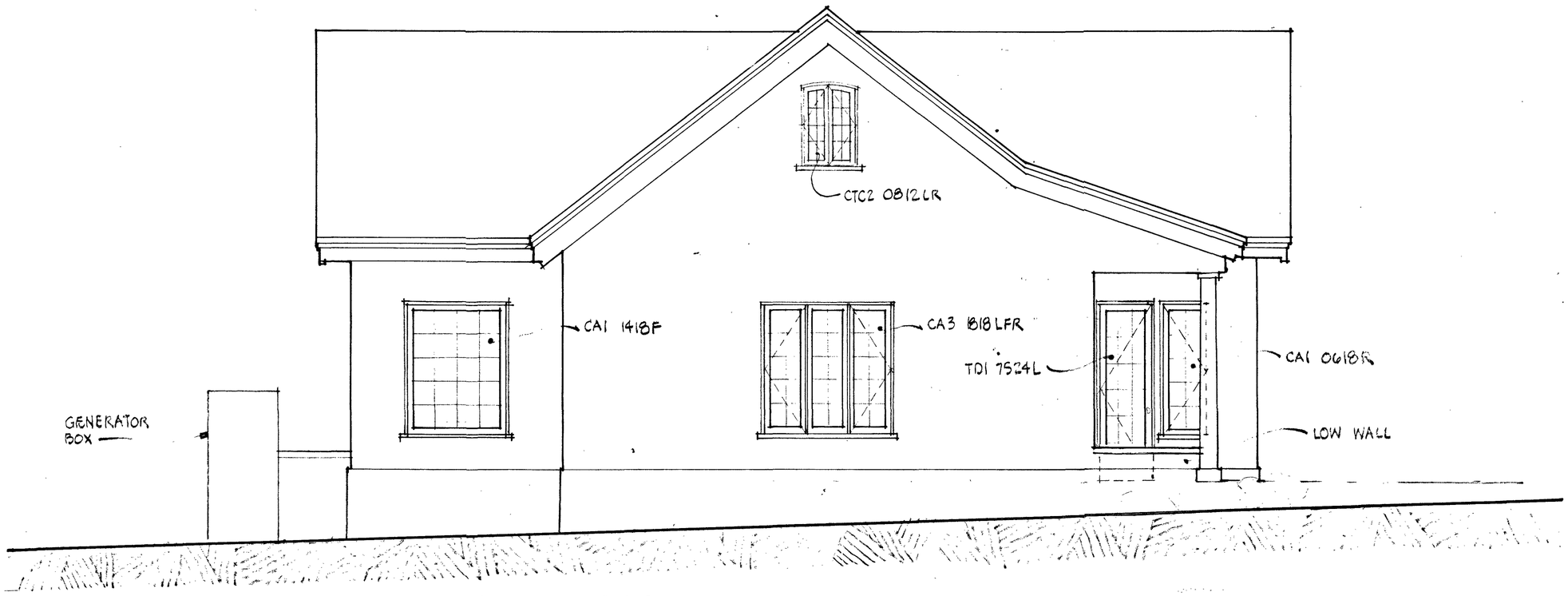
# THE CARTER CARRAIGE HOUSE GARAGE

Primrose Lane Friday Harbor 98250


DAVID L. WALDRON / ARCHITECT
310 Spring St. P.O. Box 2565 Friday Harbor, WA 98250
360 378 3673 FAX 360 378 [illegible]




SOUTH ELEVATION / GARAGE 1/4"=1'-0"

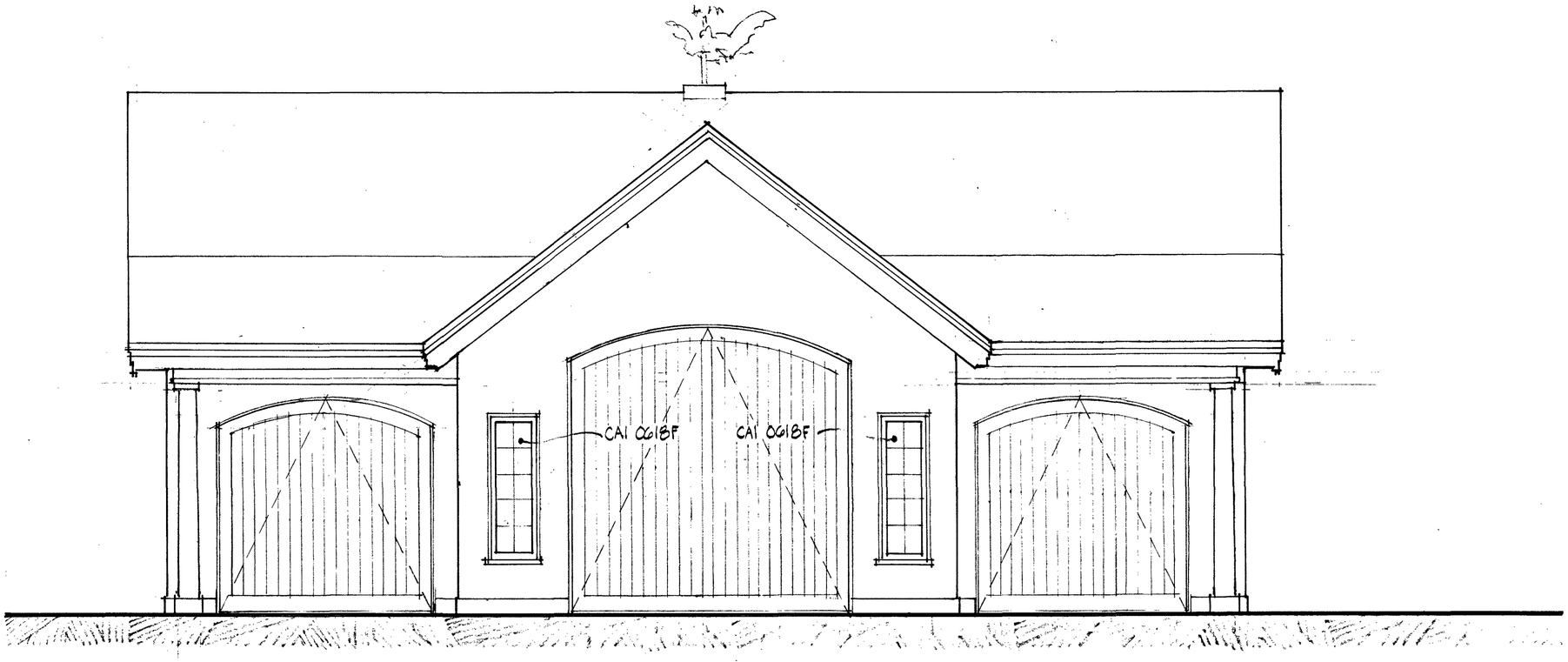



EAST ELEVATION / GARAGE 1/4"=1'-0"

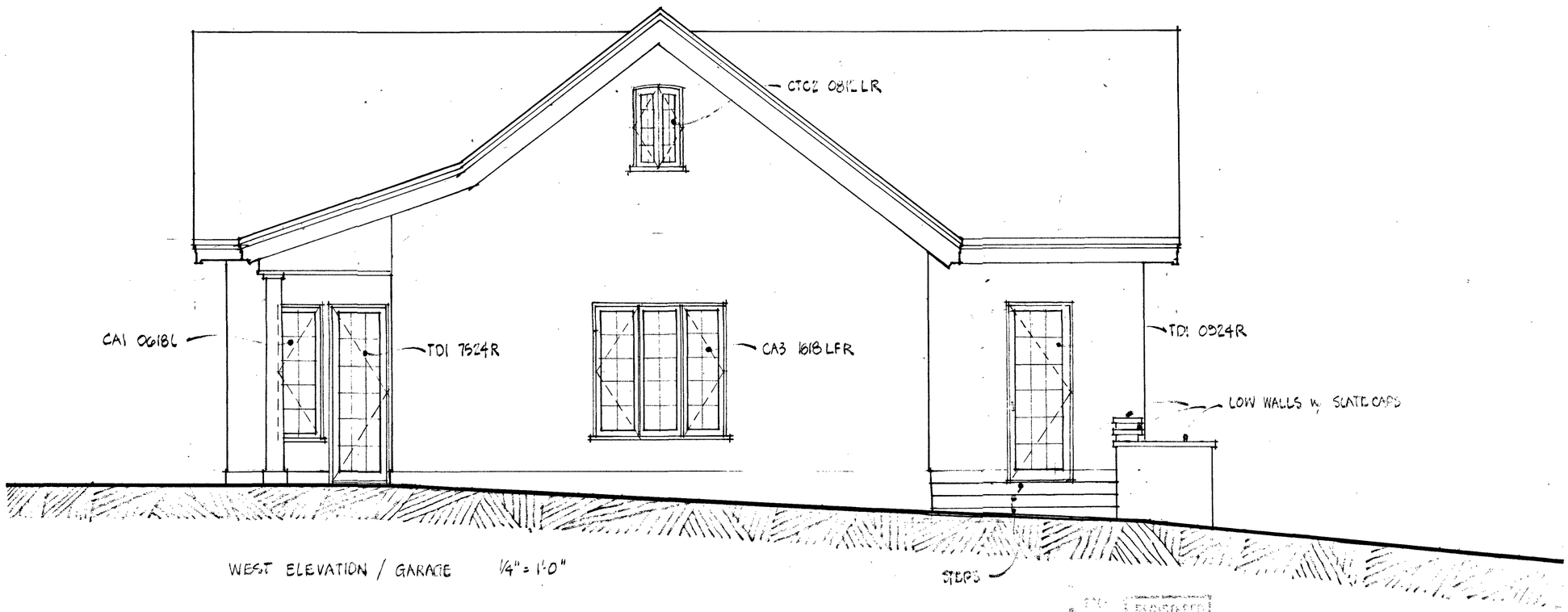
7/15/02

**THE CARTER CARRAIGE HOUSE GARAGE**
Primrose Lane Friday Harbor 98250

**DAVID L. WALDRON / ARCHITECT**
310 Spring St. P.O. Box 2505 Friday Harbor WA 98250
360 378 3070 FAX 360 378 9527 email: davidwaldron@interisland.net




NORTH ELEVATION / GARAGE 1/4"=1'-0"




WEST ELEVATION / GARAGE 1/4" = 1'-0"

7/15/02 REVISED 9/1/02

**THE CARTER CARRAIGE HOUSE GARAGE**
Primrose Lane Friday Harbor 98250

**DAVID L. WALDRON / ARCHITECT**
310 Spring St. P.O. Box 2505 Friday Harbor WA 98250
360 378 3070 FAX 360 378 9527 email: davidwaldron@interisland.net

**STRUCTURAL WOOD GRADES**
JOISTS: #2 Hem/fir BEAMS: #1 DF
POSTS: #1 Hem/fir
GLU-LAM BEAMS: 24F V3

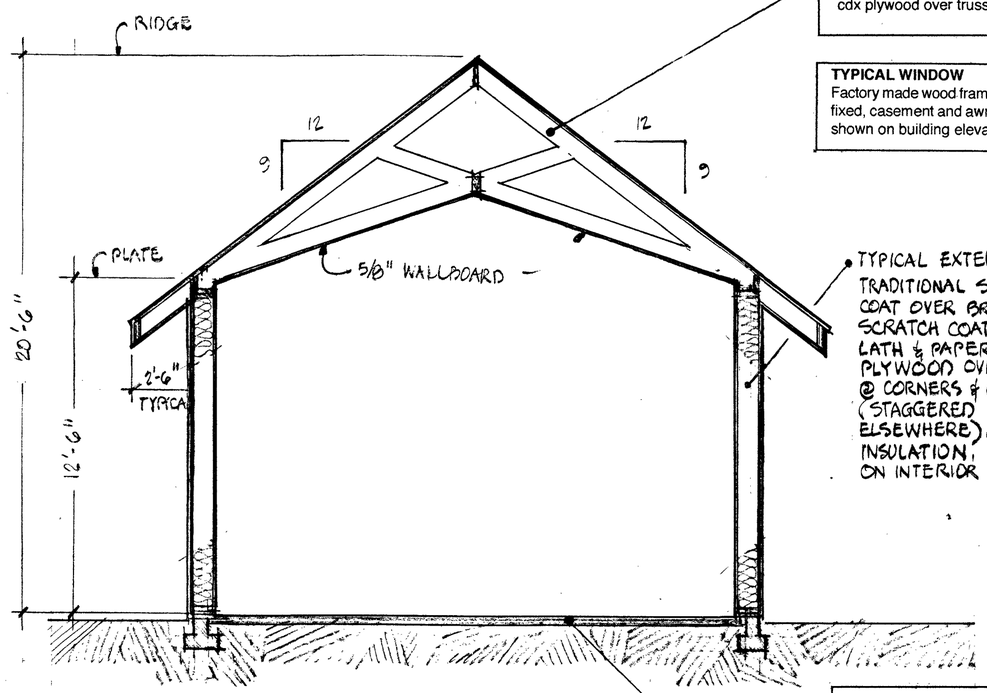
**METAL CONNECTORS:**
Use post bases on posts on concrete; Column capps where beams sit on posts; Beam saddles where a beam butts into another perpendicularly; hurricane clips where each rafter is supported on a wall plate; and joist hangers at joist ends.

**DESIGN LIVE LOADS**
FLOOR 40PSF
ROOF 25PSF

**CONCRETE MIX**
Six 94 lb. sacks per cubic yard. Add reinforcing plastic fibers. 3000 psi in 28 days.

**TYPICAL ROOF**
9 in 12 slope. Slate roofing over 3/4" cdx plywood over trusses @ 16" o.c.

**TYPICAL WINDOW**
Factory made wood framed double-glazed fixed, casement and awning units in sizes shown on building elevations.

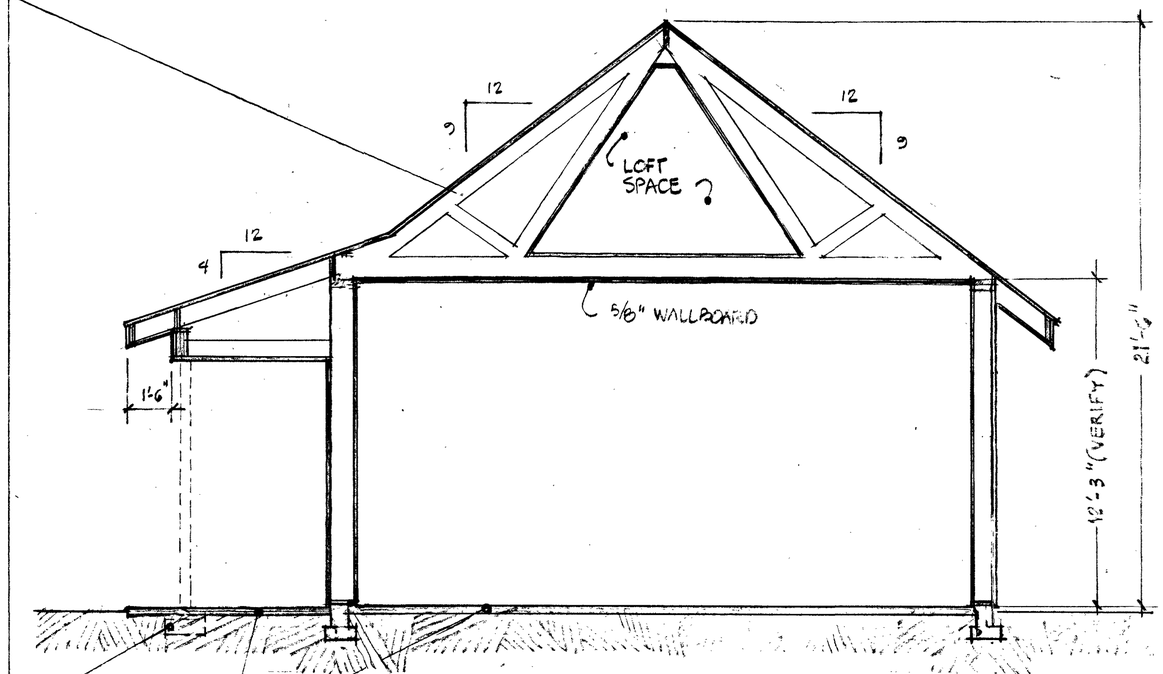



TYPICAL EXTERIOR WALL
TRADITIONAL STUCCO (FINISH COAT OVER BROWN COAT OVER SCRATCH COAT) OVER METAL LATH & PAPER OVER 3/4" PLYWOOD OVER 2X10 STUDS @ CORNERS & OPENINGS (STAGGERED 2X6 STUDS ELSEWHERE). R-30 BATT INSULATION, 5/8" SHEETROCK ON INTERIOR FACE.

7 TYPICAL BUILDING SECTION 1/4" = 1'-0"

**TYPICAL SPREAD FOOTING**
Size and thickness as shown on foundation plan. #5 horizontal bars every 18" in both directions. Embed appropriate post or column base in center of footing. Bottom of footing to be 24" below adjacent grade.

**SLAB-ON-GRADE**
7" thick concrete slab over 6 mil vapor barrier over compacted granular fill. #4 rebar every 9" in both directions. Control joints where shown on floor plan.



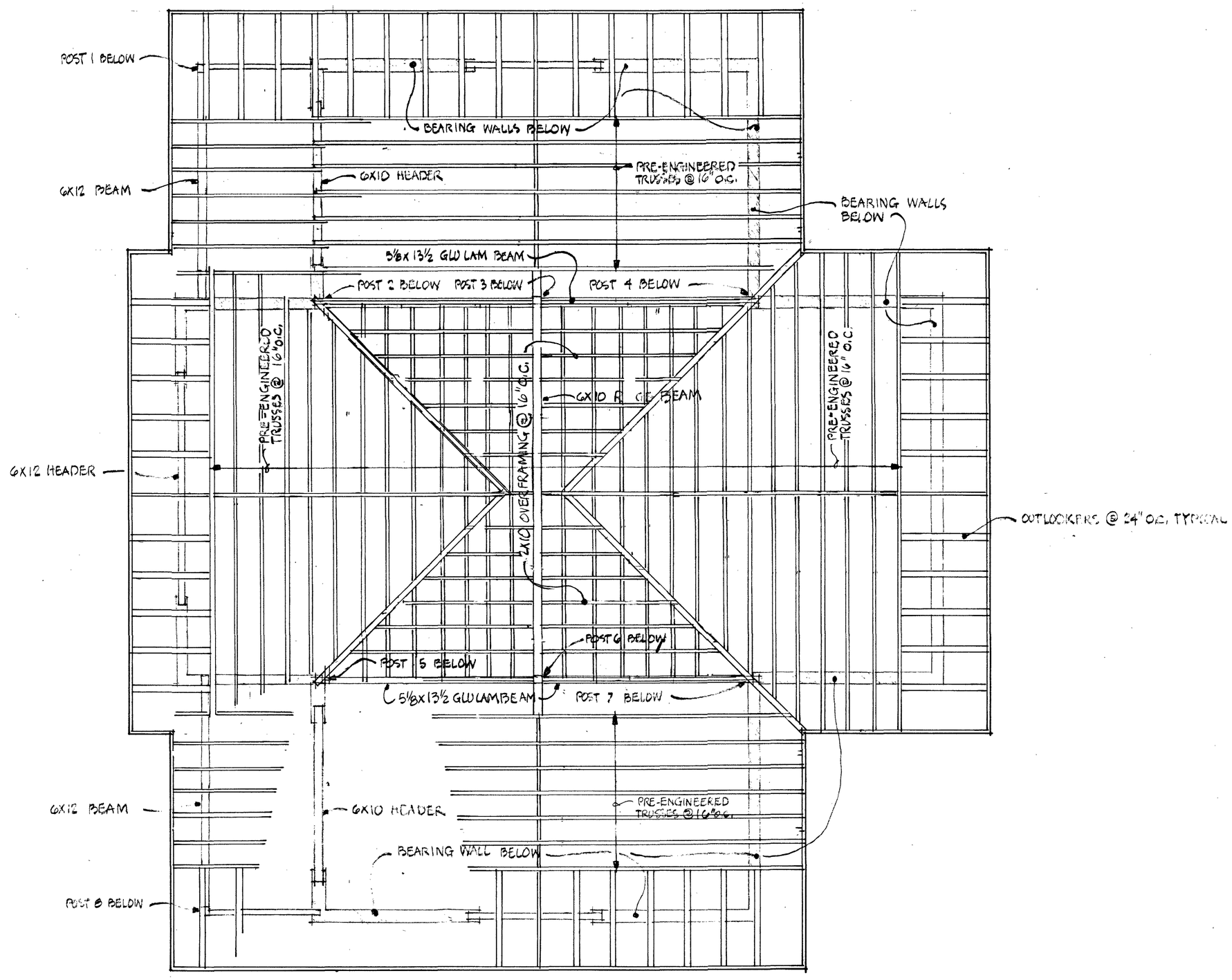

8 TYPICAL BUILDING SECTION 1/4" = 1'-0"

**TYPICAL CONCRETE PERIMETER FOUNDATION**
8" thick stem wall, the top of which is to be at least 6" above adjacent grade; with #5 vertical bars every 24", two #5 horizontal bars near top and #5 horizontal bar @ midpoint between top and bottom horizontals; on 16" wide by 8" thick footing with two #5 horizontal bars. Bottom of footing is to be at least 24" below grade.

8/2/00 REVISED 7/15/02 REVISED 9/1/02

**THE CARTER CARRAIGE HOUSE GARAGE**
Primrose Lane Friday Harbor 98250


**DAVID L. WALDRON / ARCHITECT**
310 Spring St. P.O. Box 2505 Friday Harbor WA 98250
360 378 3070 FAX 360 378 9527 email: davidwaldron@interisland.net




**9 ROOF FRAMING PLAN 1/4" = 1'-0"**

NORTH

8/9/00 REVISED 7/15/02

**THE CARTER CARRAIGE HOUSE GARAGE**
Primrose Lane Friday Harbor 98250

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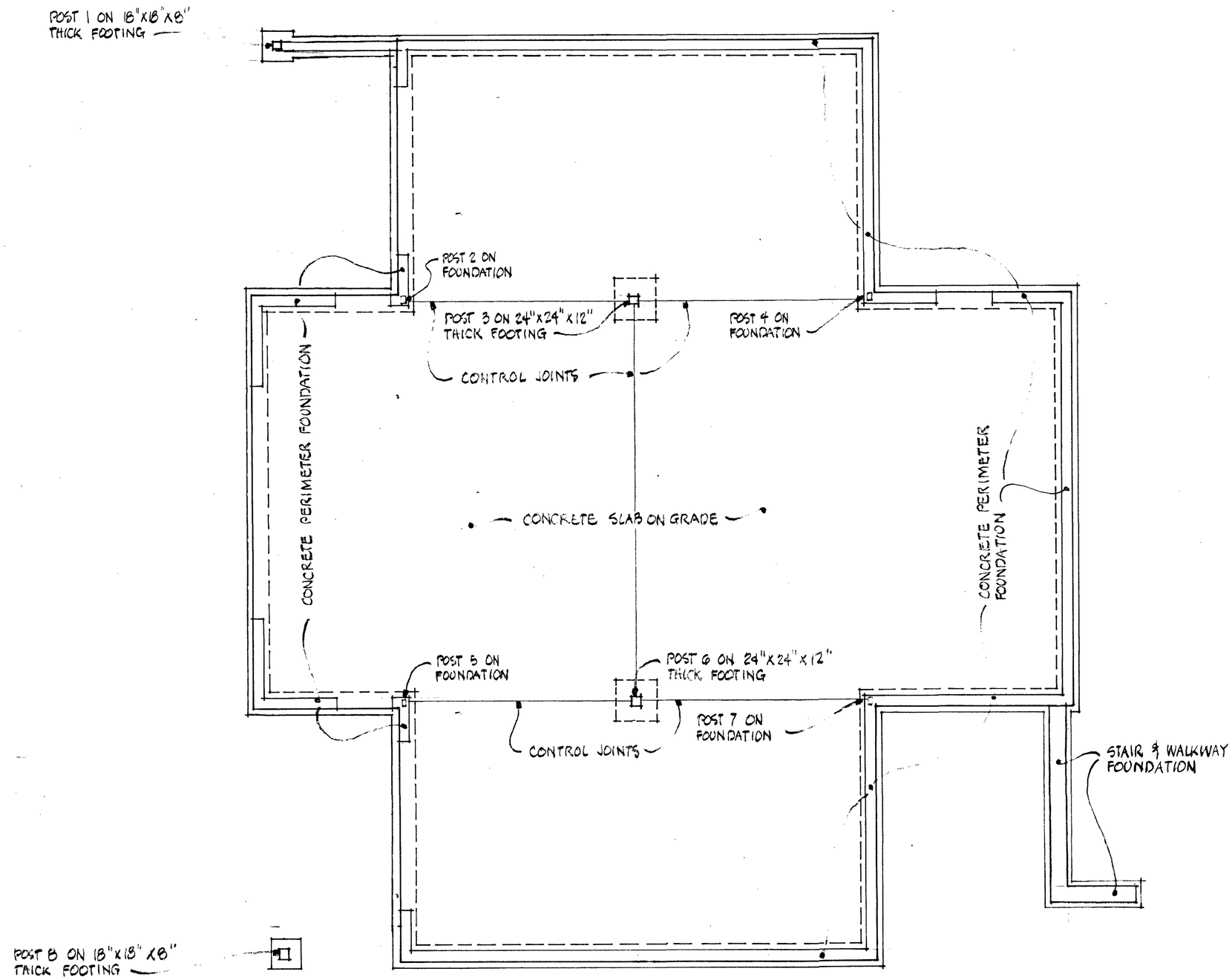


10 SLAB AND FOUNDATION PLAN 1/4" = 1'-0"

NORTH

8/3/00 REVISED 7/15/02

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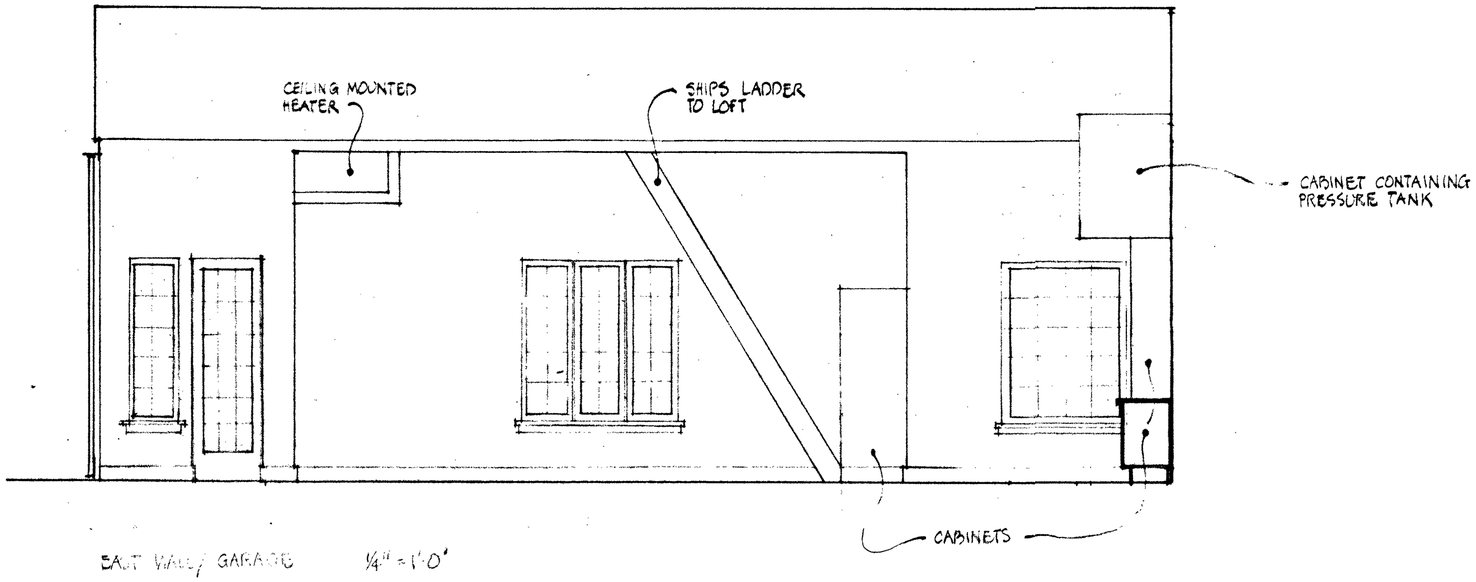
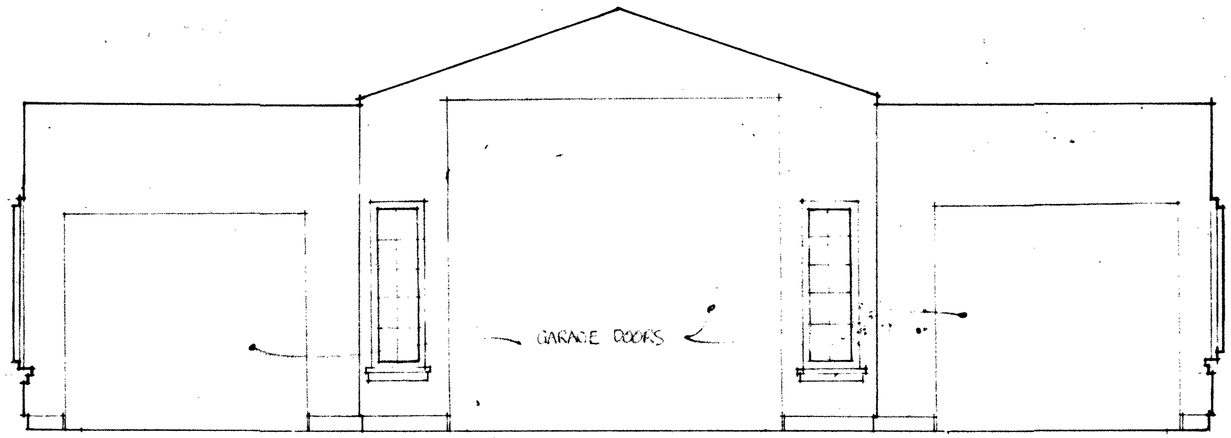



EAST WALL / GARAGE 1/4" = 1'-0"




NORTH WALL / GARAGE 1/4" = 1'-0"

7/15/02 REVISED 8/1/02

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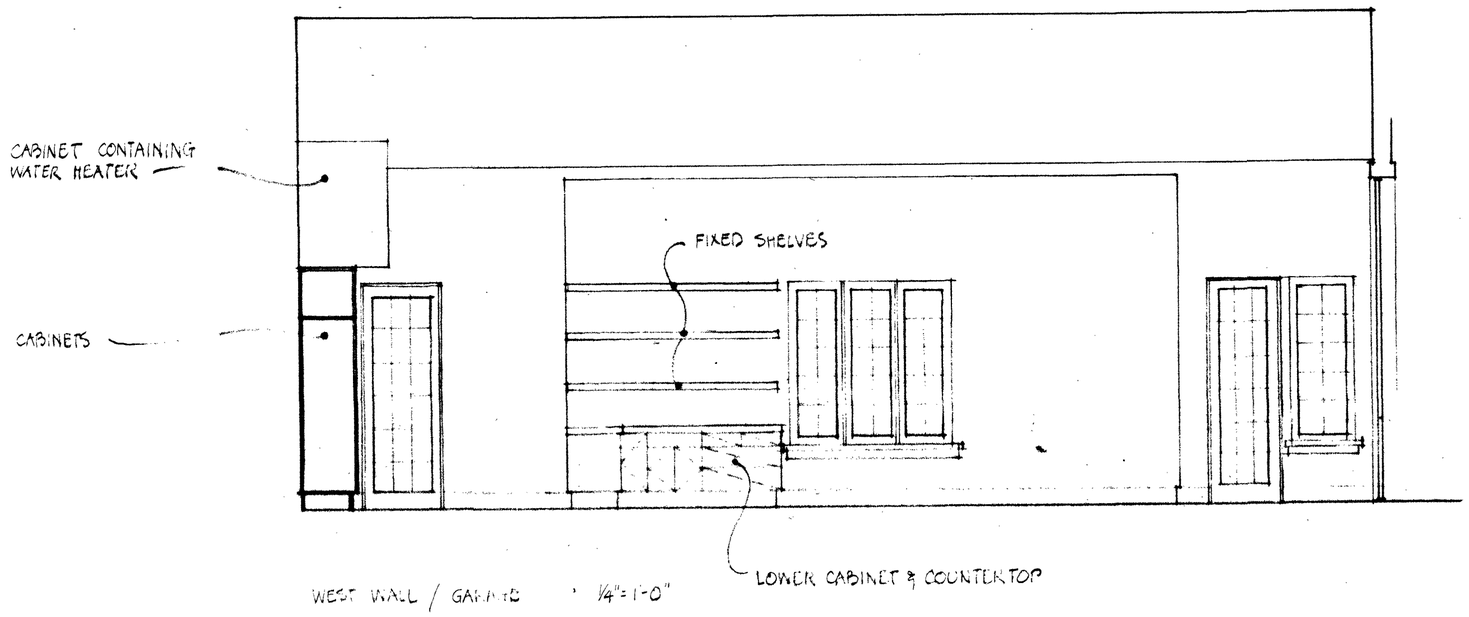
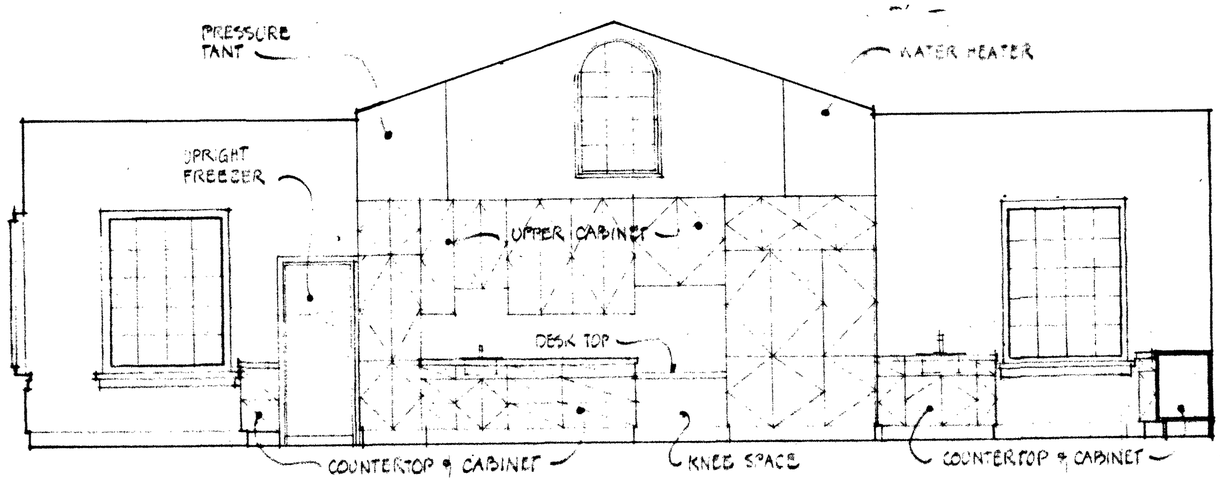
310 Spring St. P.O. Box 2505 Friday Harbor WA 98250
360 378 3070 FAX 360 378 9527 email: davidwaldron@interisland.net




WEST WALL / GARAGE 1/4"=1'-0"

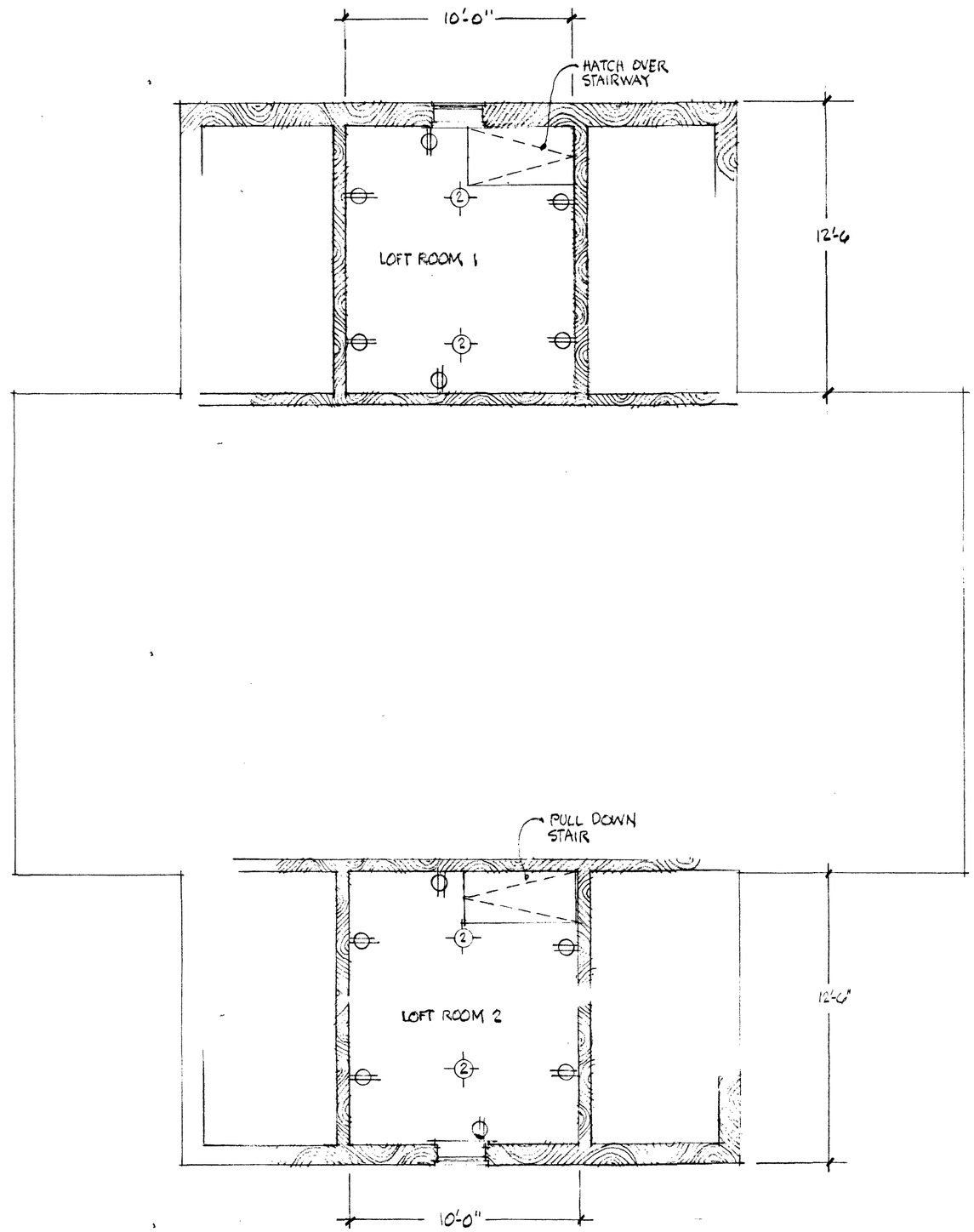



SOUTH WALL / GARAGE 1/4"=1'-0"

7/15/02 REVISED 9/1/02

**THE CARTER CARRAIGE HOUSE GARAGE**
Primrose Lane Friday Harbor 98250

**DAVID L. WALDRON / ARCHITECT**
310 Spring St. P.O. Box 2505 Friday Harbor WA 98250
360 378 3070 FAX 360 378 9527 email. davidwaldron@interisland.net




GARAGE LOFT FLOOR PLAN 1/4" = 1'-0" NORTH

9/5/02

**THE CARTER CARRAIGE HOUSE GARAGE**
Primrose Lane Friday Harbor 98250

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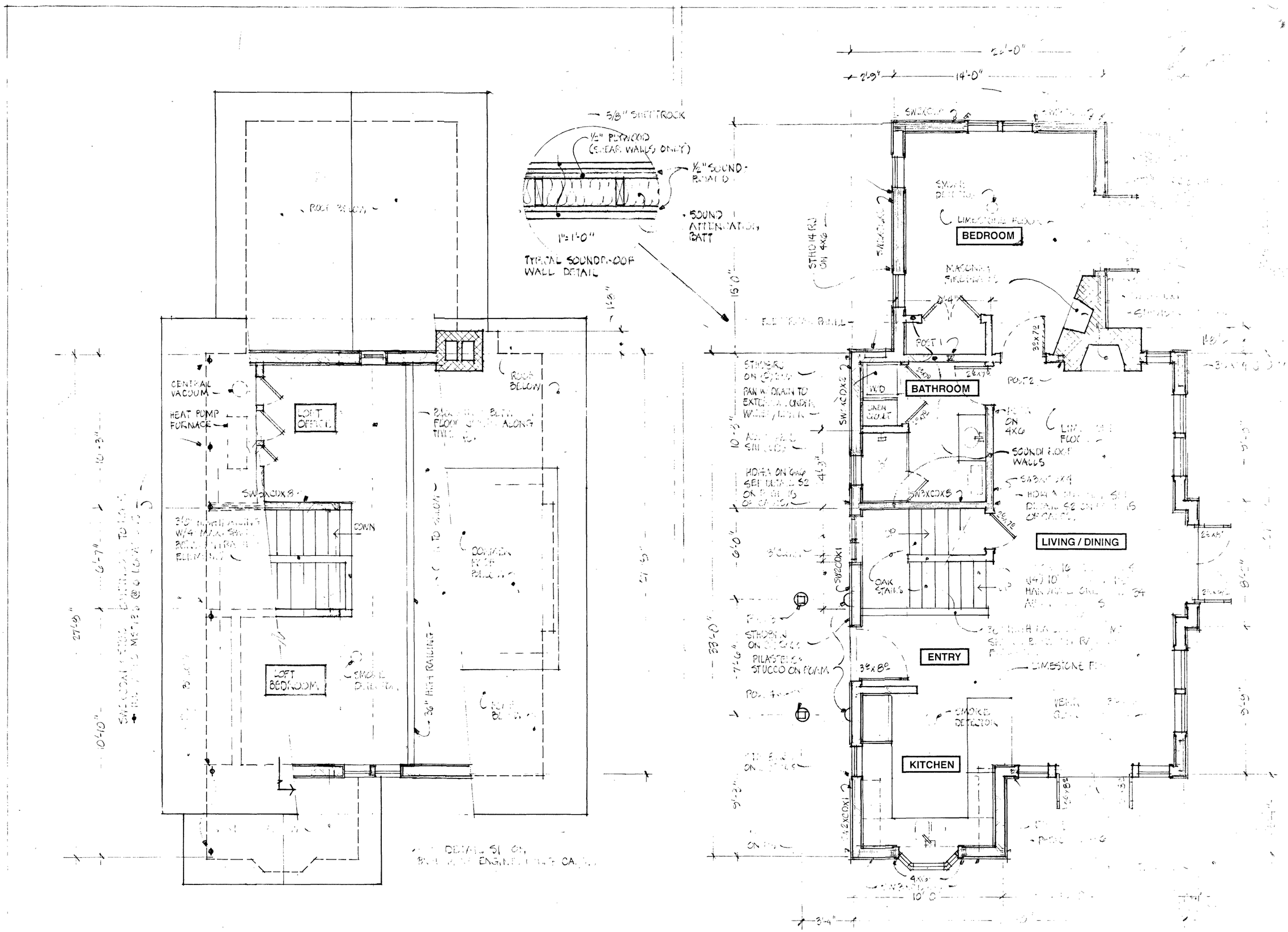
360 378 3070 FAX 360 378 9527 email: davidwaldron@interisland.net



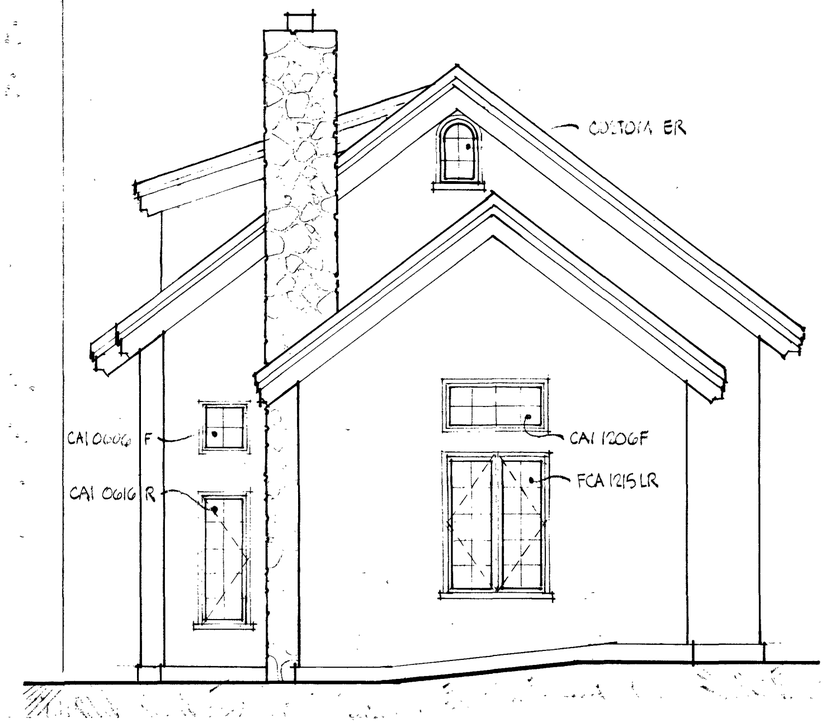

2 LOFT PLAN 1/4" = 1'-0"

3 MAIN FLOOR PLAN 1/4" = 1'-0"

7/3/00 REVISED 8/4/00 REVISED 7/15/02 REVISED 8/21/02 & 9/1/02

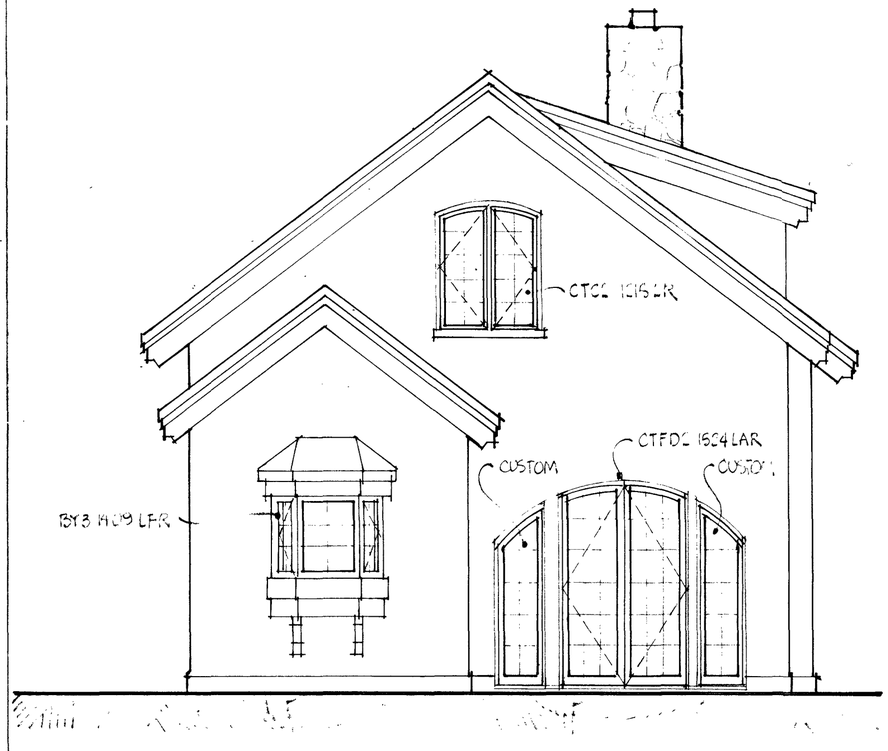
**THE CARTER GUEST HOUSE**
Primrose Lane Friday Harbor WA 98250

DAVID L. WALDRON ARCHITECT
310 Sp[illegible] Harbor WA 98[illegible]
360 37[illegible]

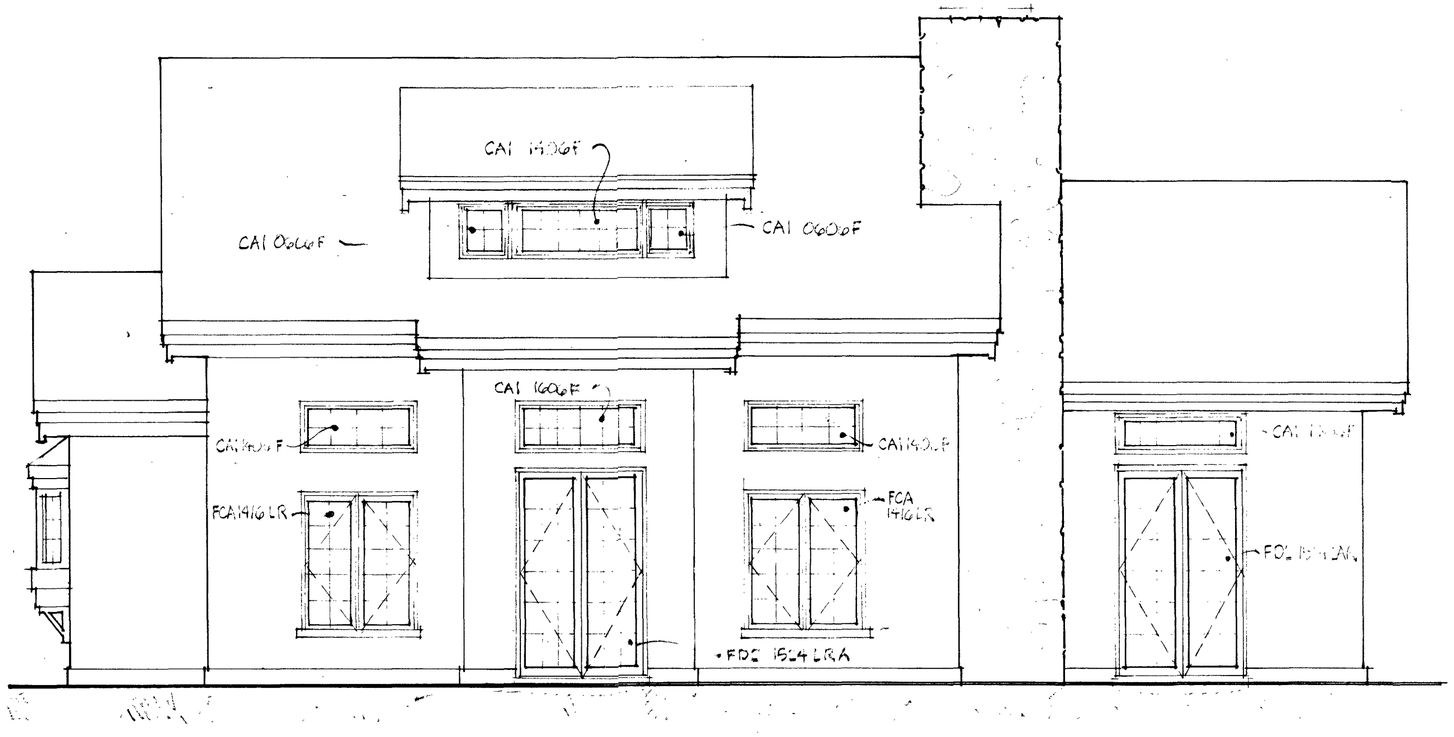



4 NORTH ELEVATION 1/4" = 1'-0"

5 WEST ELEVATION 1/4" = 1'-0"




6 SOUTH ELEVATION 1/4" = 1'-0"




7 EAST ELEVATION 1/4" = 1'-0"

3/12/01 REVISED 7/15/01 REVISED 9/4/01

**THE CARTER GUEST HOUSE**
Primrose Lane Friday Harbor WA 98250

DAVID L. WALDRON / ARCHITECT
310 Spring St P.O. Box 2505 Friday Harbor WA 98250
360 378 8070 FAX 360 378 9527 email: davidwaldron@interisland.net

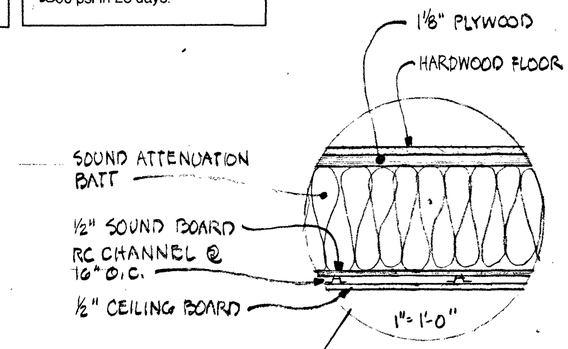
**STRUCTURAL WOOD GRADES**
JOISTS: #2 Hem/fir
POSTS: #1 Hem/fir
BEAMS: #1 DF
GLU-LAM BEAMS: 24F V3

**DESIGN LIVE LOADS**

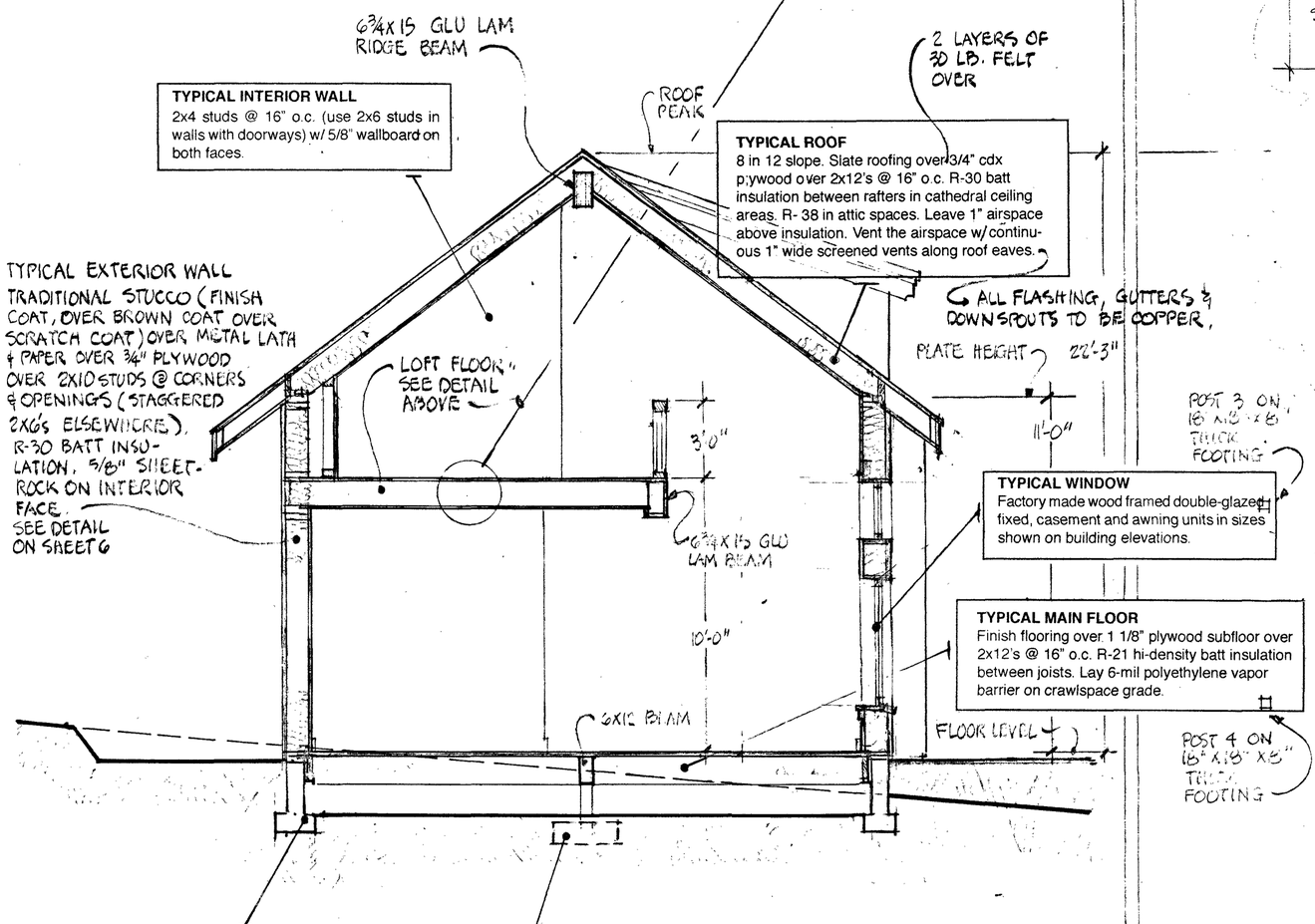
| | |
|---|---|
| FLOOR | 40PSF |
| ROOF | 25PSF |

**CONCRETE MIX**
Six 94 lb. sacks per cubic yard.
3000 psi in 28 days.

**METAL CONNECTORS:**
Use post bases on posts on concrete; Column capps where beams sit on posts; Beam saddles where a beam butts into another perpendicularly; hurricane clips where each rafter is supported on a wall plate; and joist hangers at joist ends.




TYPICAL LOFT FLOOR




**TYPICAL INTERIOR WALL**
2x4 studs @ 16" o.c. (use 2x6 studs in walls with doorways) w/ 5/8" wallboard on both faces.

**TYPICAL ROOF**
8 in 12 slope. Slate roofing over 3/4" cdx plywood over 2x12's @ 16" o.c. R-30 batt insulation between rafters in cathedral ceiling areas. R- 38 in attic spaces. Leave 1" airspace above insulation. Vent the airspace w/ continuous 1" wide screened vents along roof eaves.

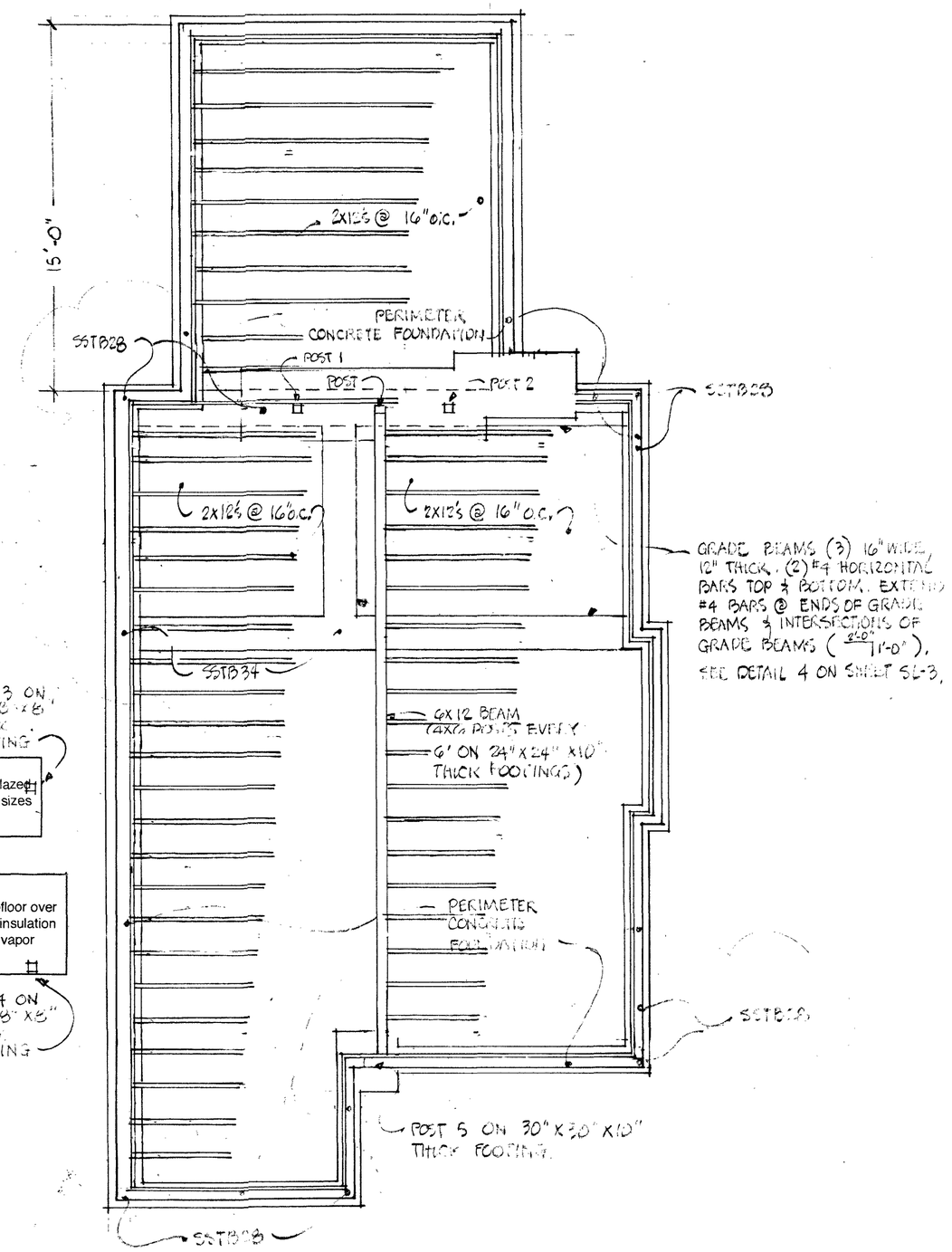
**TYPICAL WINDOW**
Factory made wood framed double-glazed fixed, casement and awning units in sizes shown on building elevations.

**TYPICAL MAIN FLOOR**
Finish flooring over 1 1/8" plywood subfloor over 2x12's @ 16" o.c. R-21 hi-density batt insulation between joists. Lay 6-mil polyethylene vapor barrier on crawlspace grade.

**TYPICAL CONCRETE PERIMETER FOUNDATION**
8" thick stem wall, the top of which is to be at least 6" above adjacent grade; with #5 vertical bars every 24", two #5 horizontal bars near top and #5 horizontal bar @ midpoint between top and bottom horizontals; on 16" wide by 8" thick footing with two #5 horizontal bars. Bottom of footing is to be at least 24" below grade.

**TYPICAL SPREAD FOOTING**
Size and thickness as shown on foundation plan. #5 horizontal bars every 18" in both directions. Embed appropriate post or column base in center of footing. Bottom of footing to be 24" below adjacent grade.

**8 TYPICAL BUILDING SECTION 1/4" = 1'-0"**

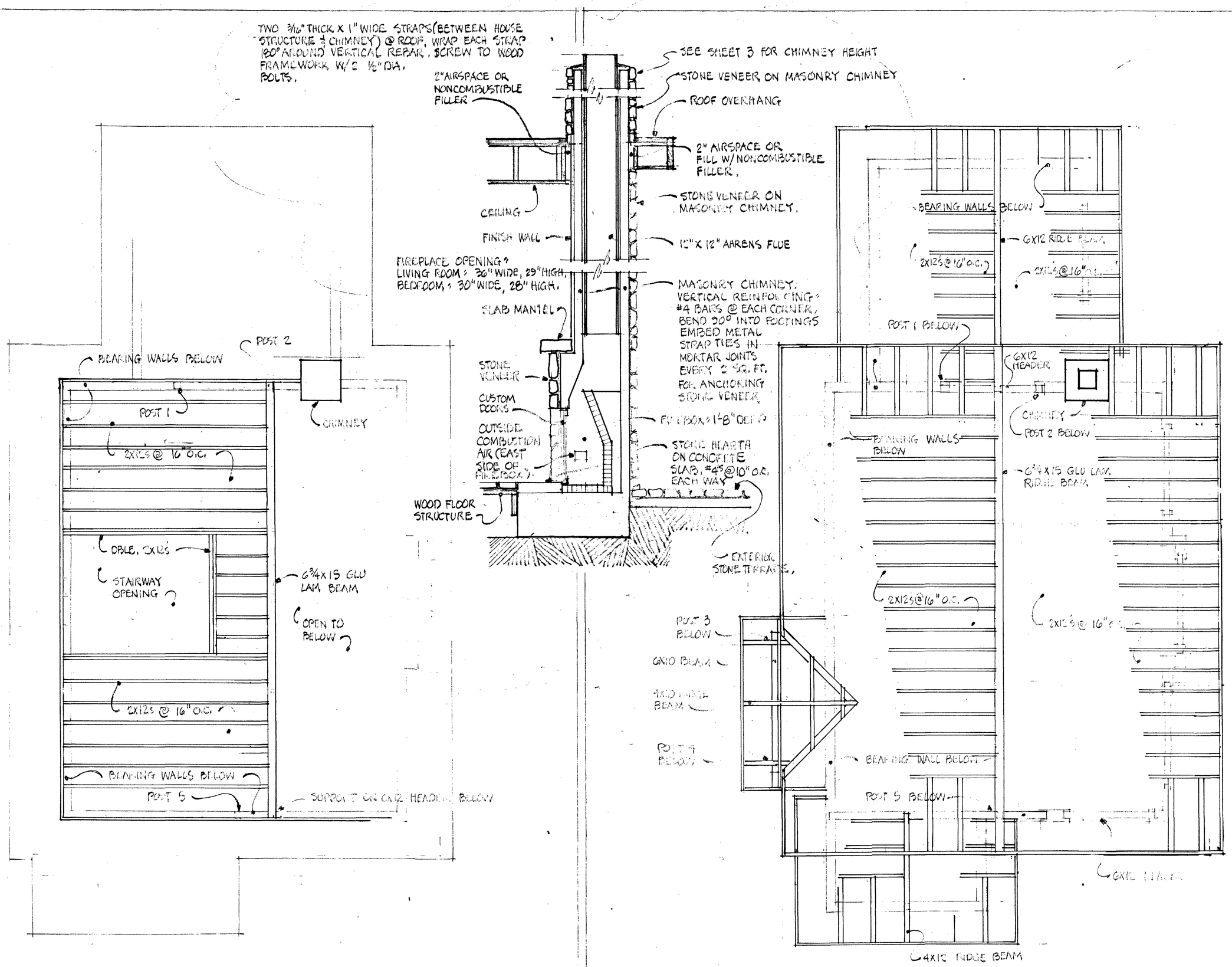



**9 MAIN FLOOR FRAMING AND FOUNDATION PLAN 1/4" = 1'-0"**

7/3/00 REVISED 8/6/00 REVISED 7/15/02 REVISED 9/1/02

**THE CARTER GUEST HOUSE**
Primrose Lane Friday Harbor WA 98250


**DAVID L. WALDRON / ARCHITECT**
310 Spring St. P.O. Box 2505 Friday Harbor WA 98250
360 378 3070 FAX 360 378 9527 email: davidwaldron@interisland.net




**10 LOFT FRAMING PLAN 1/4" = 1'-0"** NORTH

**11 ROOF FRAMING PLAN 1/4" = 1'-0"** NORTH

7/3/00 REVISED 9/6/00 REVISED 7/15/02

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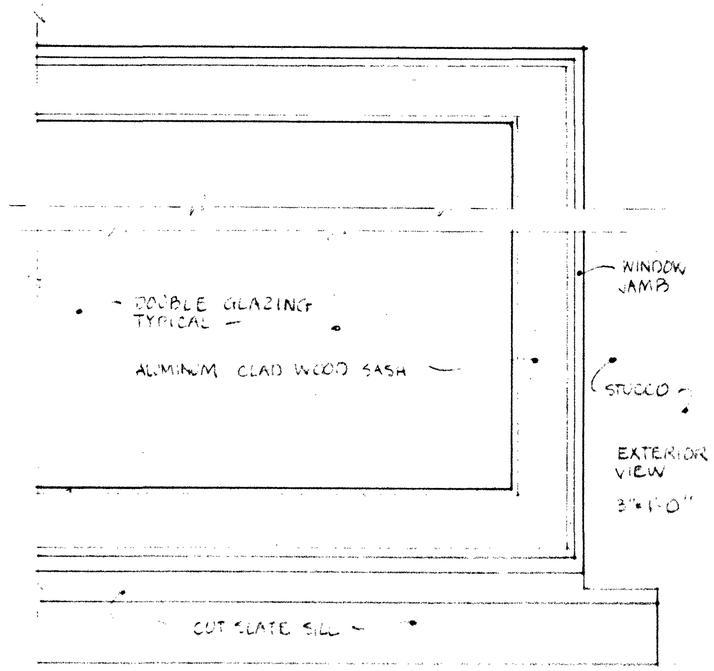
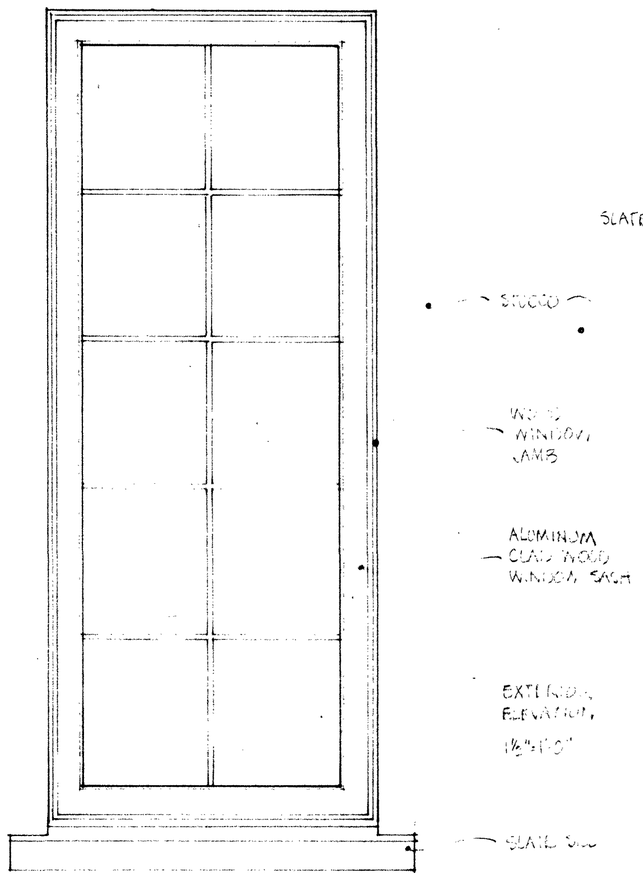
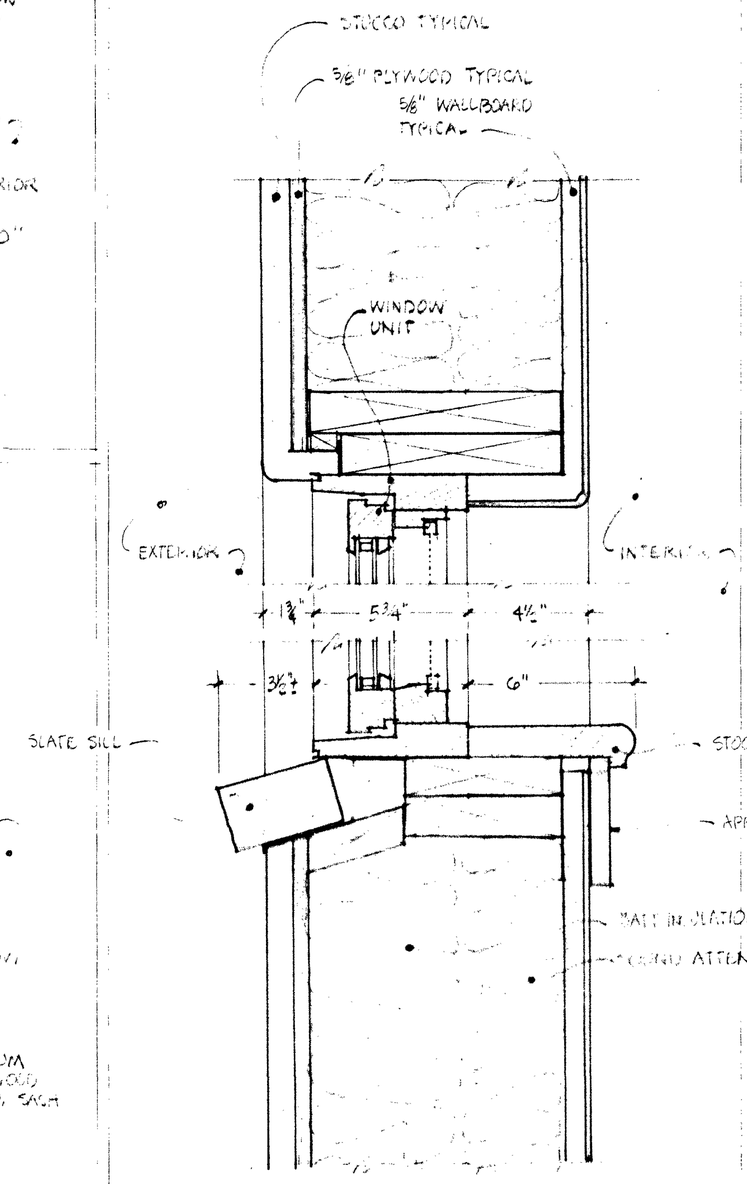
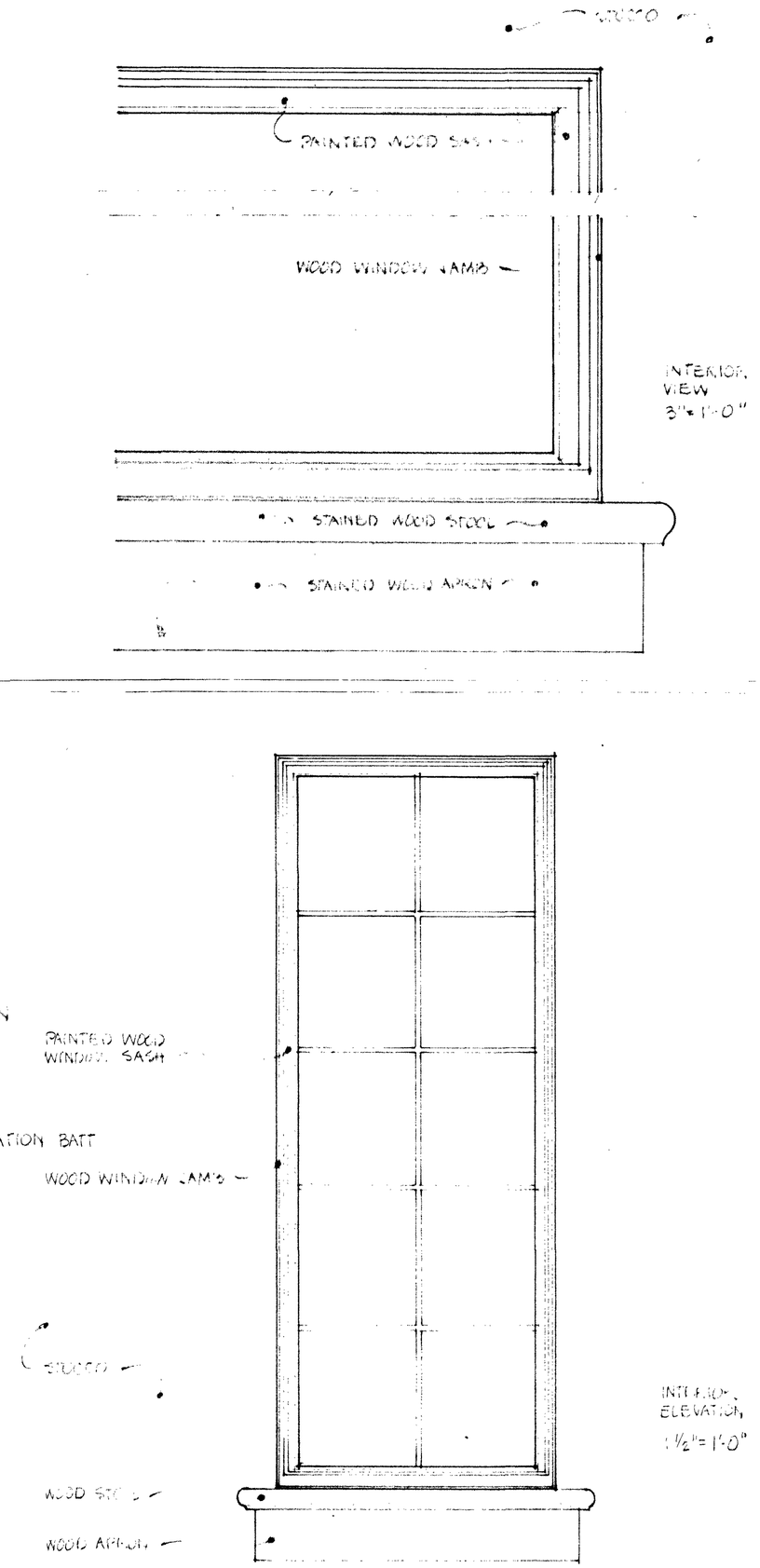



TYPICAL EXTERIOR WALL & WINDOW 3"=1'-0"

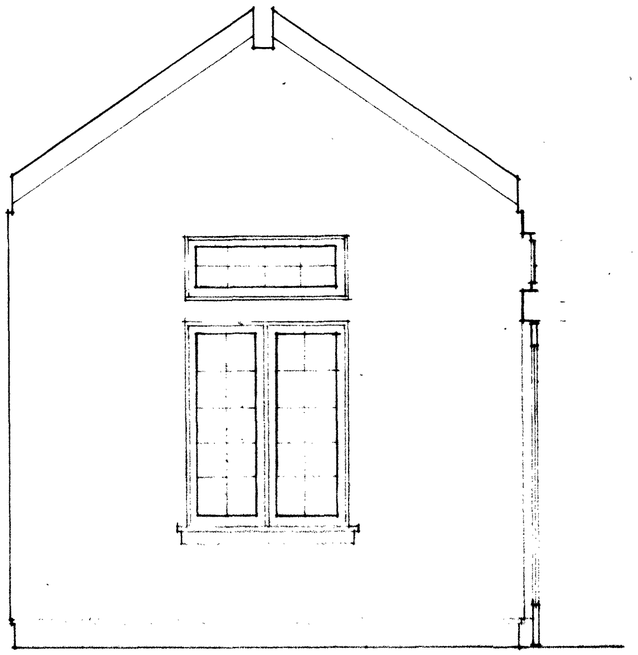
NOTE: THESE DETAILS ARE TYPICAL IN THE GUEST HOUSE & GARAGE.



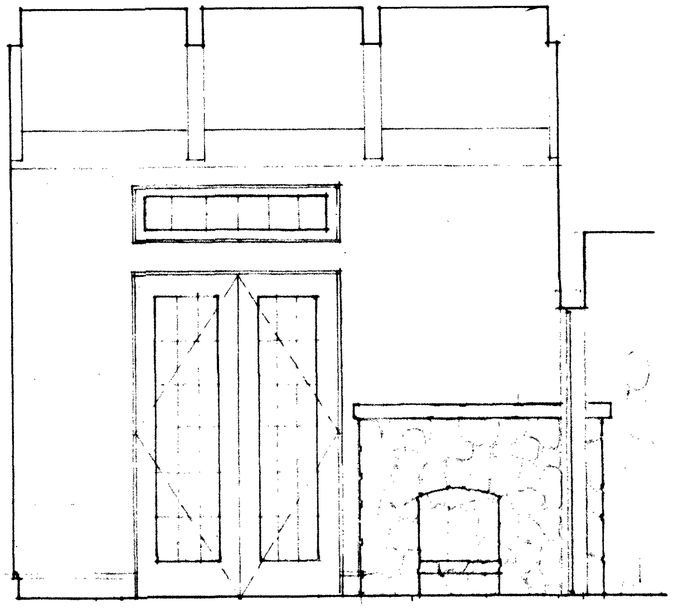

7/15/02

**THE CARTER GUEST HOUSE**
678 Primrose Lane Friday Harbor WA 98250

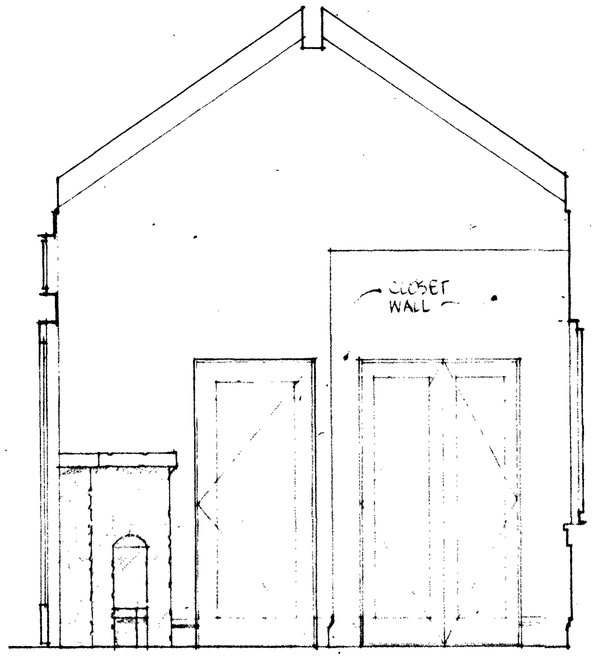
**DAVID L. WALDRON / ARCHITECT**
310 Spring St. P.O. Box 2505 Friday Harbor WA 98250
360 378 3070 FAX 360 378 9527 email: davidwaldron@interisland.net



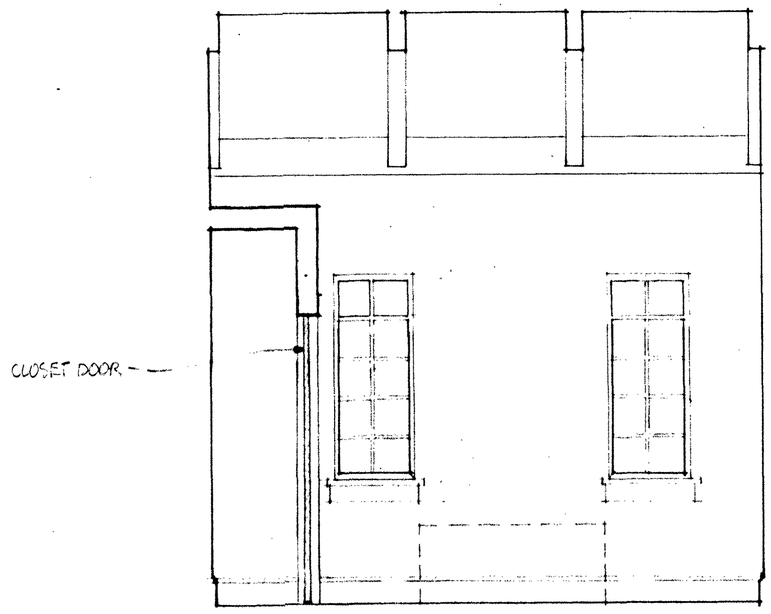
NORTH WALL / BEDROOM 3/8" = 1'-0"



EAST WALL / BEDROOM 3/8" = 1'-0"




SOUTH WALL / BEDROOM 3/8" = 1'-0"



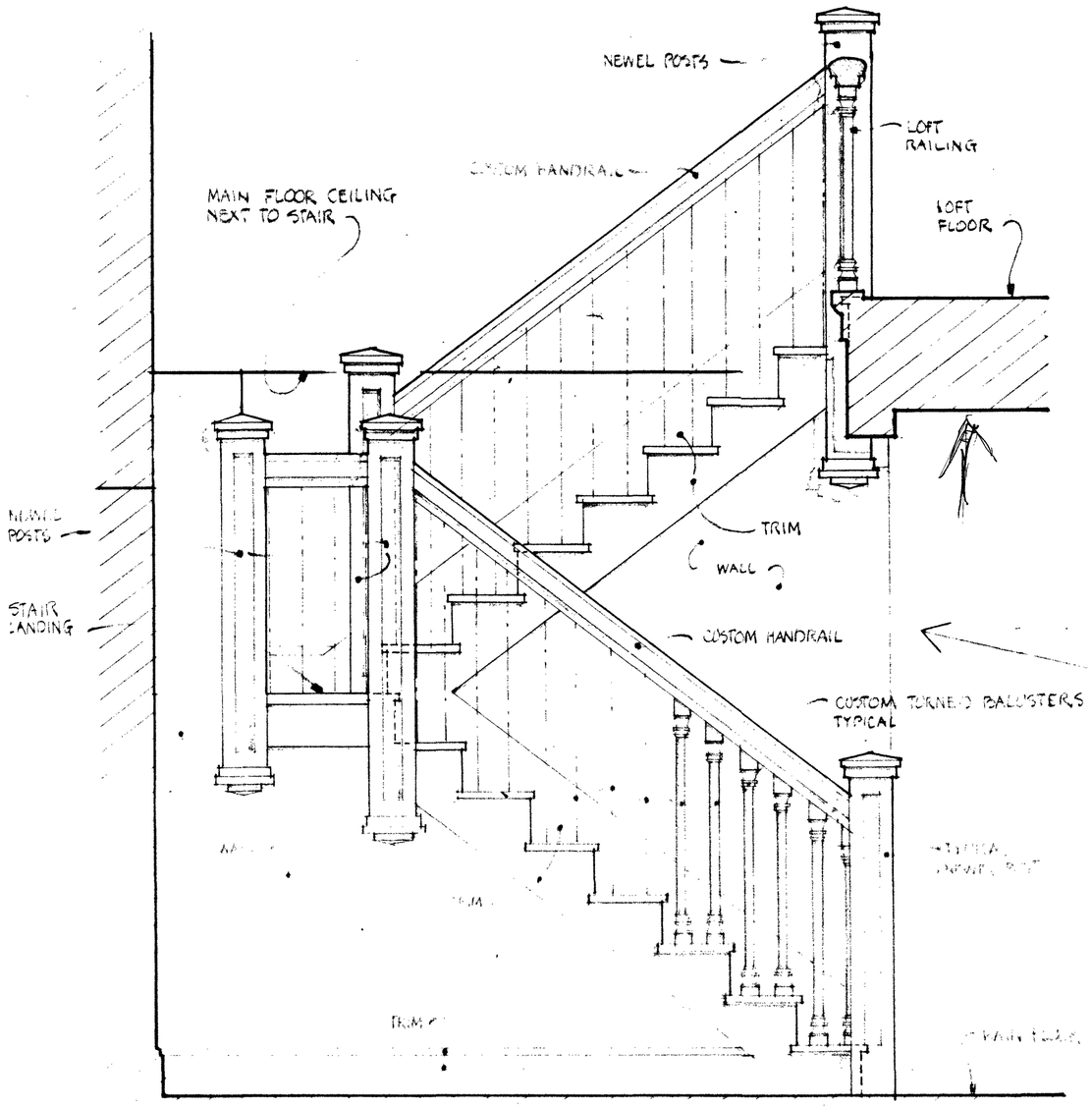

WEST WALL / BEDROOM 3/8" = 1'-0"

7/15/02 REVISED 9/1/02

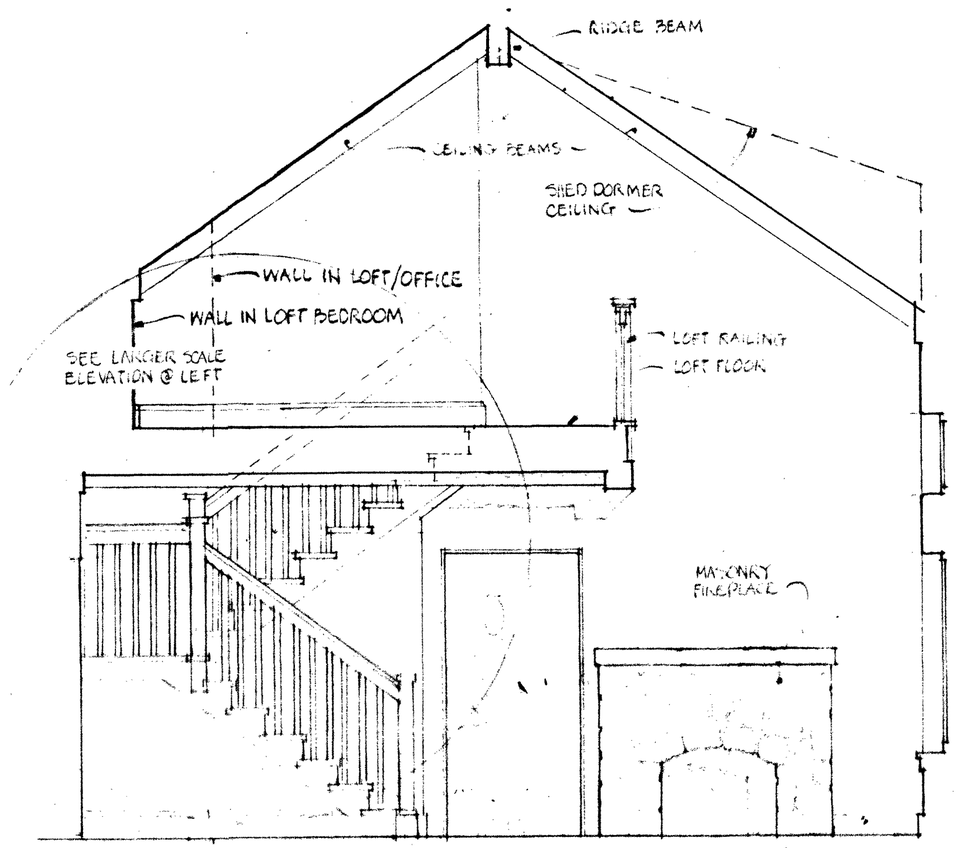
**THE CARTER GUEST HOUSE**
678 Primrose Lane Friday Harbor WA 98250

**DAVID L. WALDRON / ARCHITECT**
310 Spring St. P.O. Box 2505 Friday Harbor WA 98250
360 378 3070 FAX 360 378 9527 email: davidwaldron@interisland.net

NOTE: ALL STAIR & LOFT RAILING ELEMENTS TO BE SOLID OAK.




STAIRWAY ELEVATION 3/4" = 1'-0"




ELEVATION OF STAIRWAY & WEST WALL OF LIVING ROOM & LOFT AREA 3/8" = 1'-0"

1/15/02 REVISED 8/1/02

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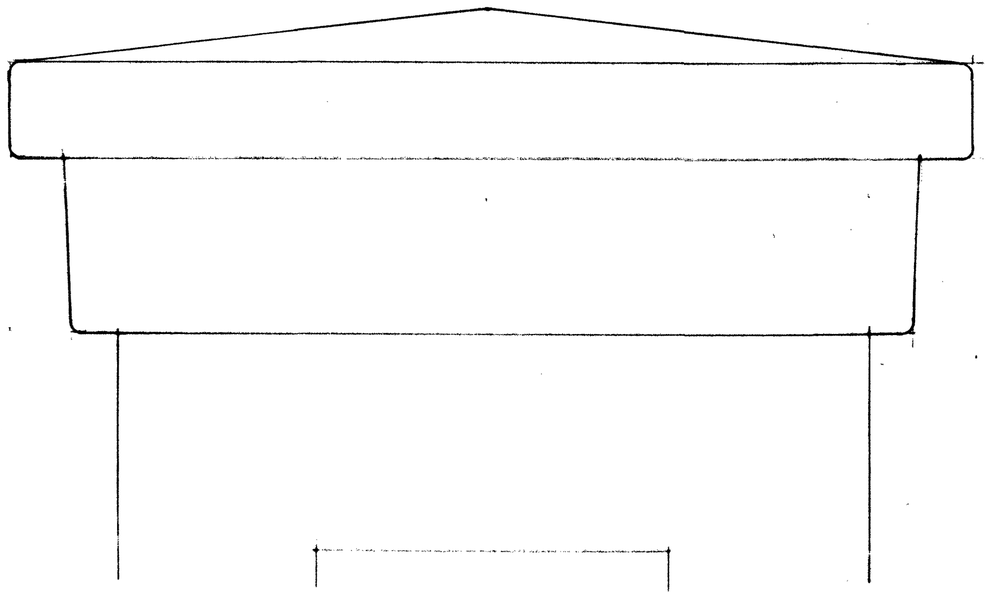
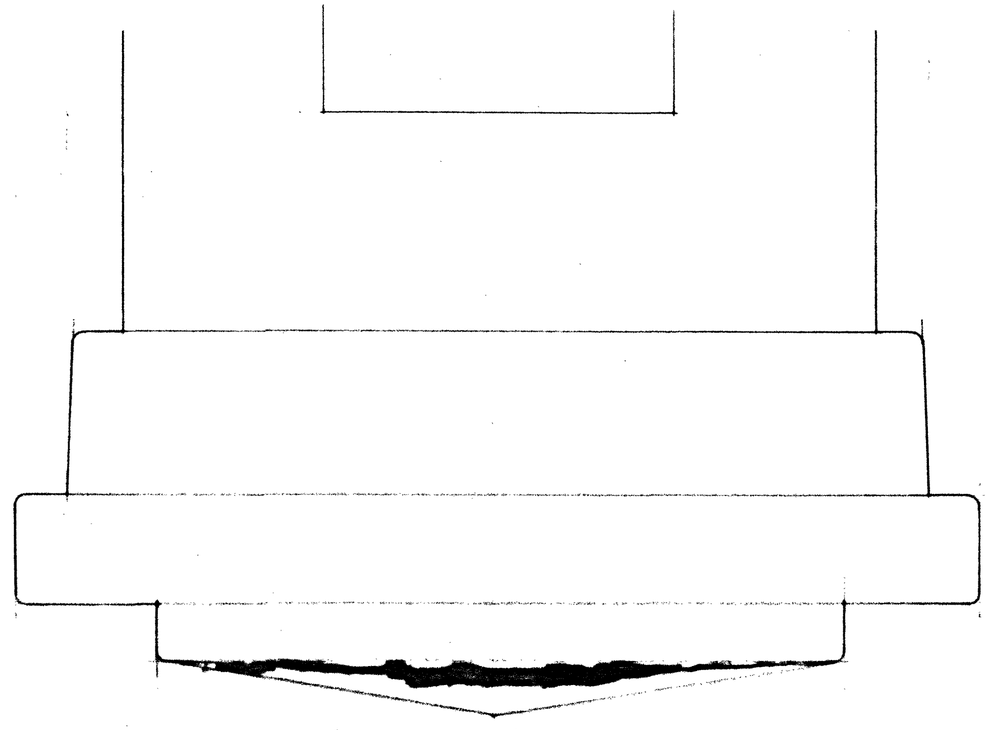
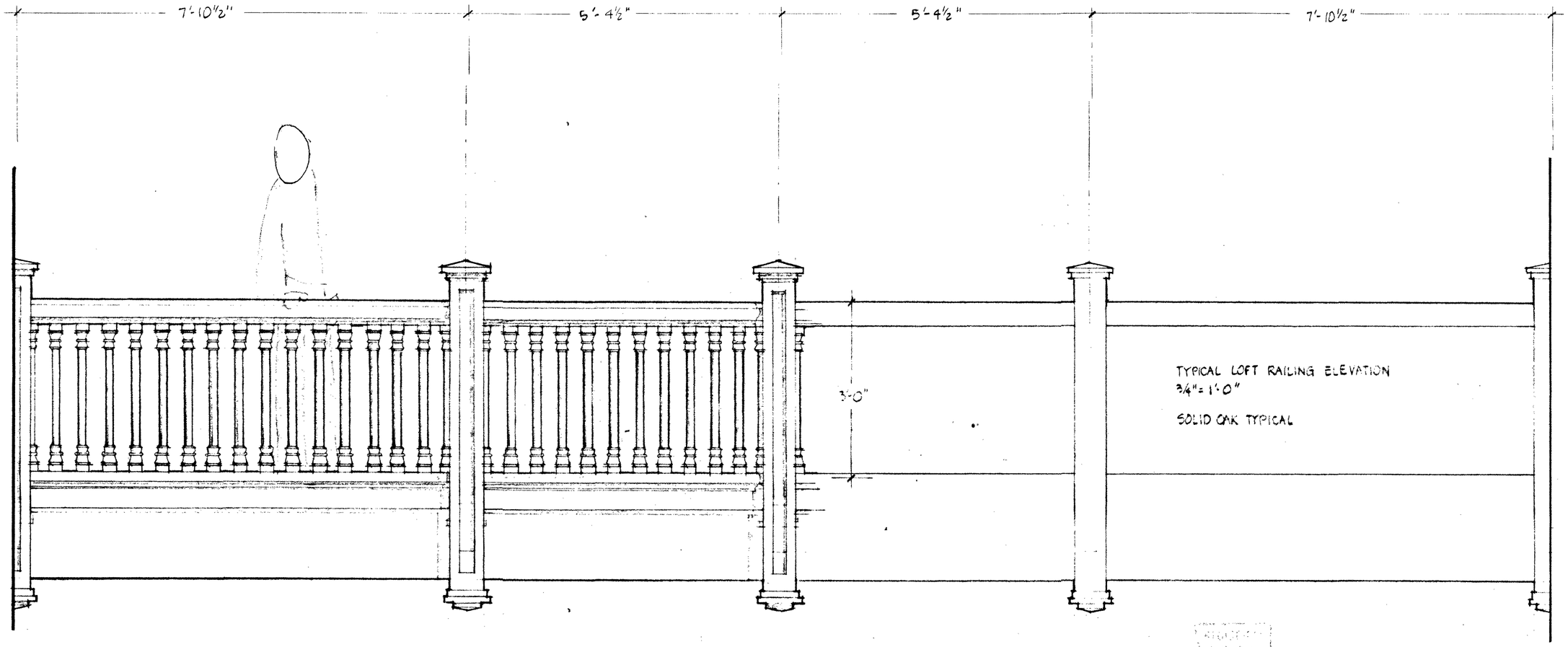


FULL SIZE DETAIL OF NEWEL POST CAP TYPICAL LOFT & STAIR RAILING



FULL SIZE DETAIL OF NEWEL POST BASE ON LOFT RAILING




TYPICAL LOFT RAILING ELEVATION
3/4" = 1'-0"

SOLID OAK TYPICAL

7/15/02

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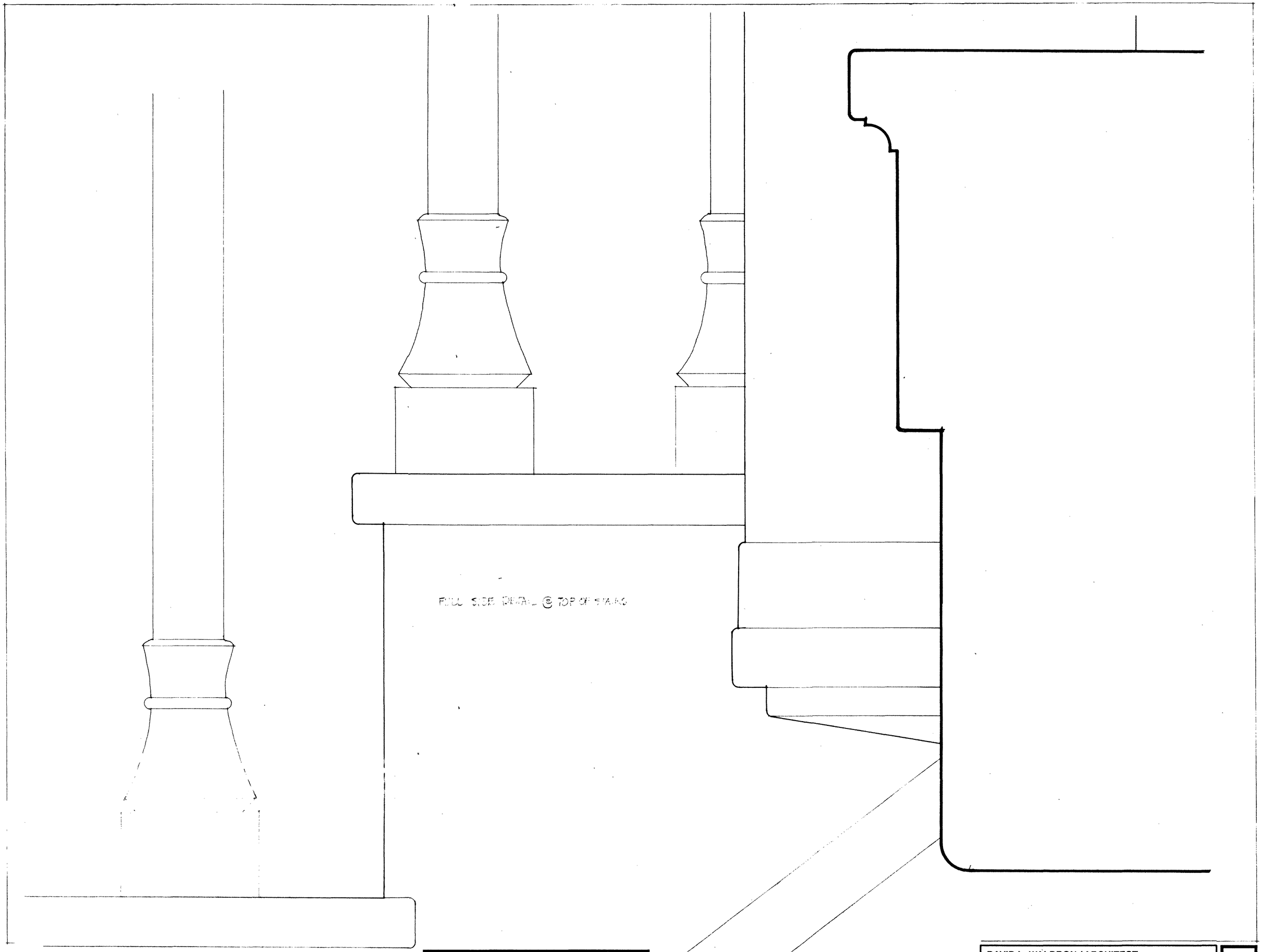


7/15/02

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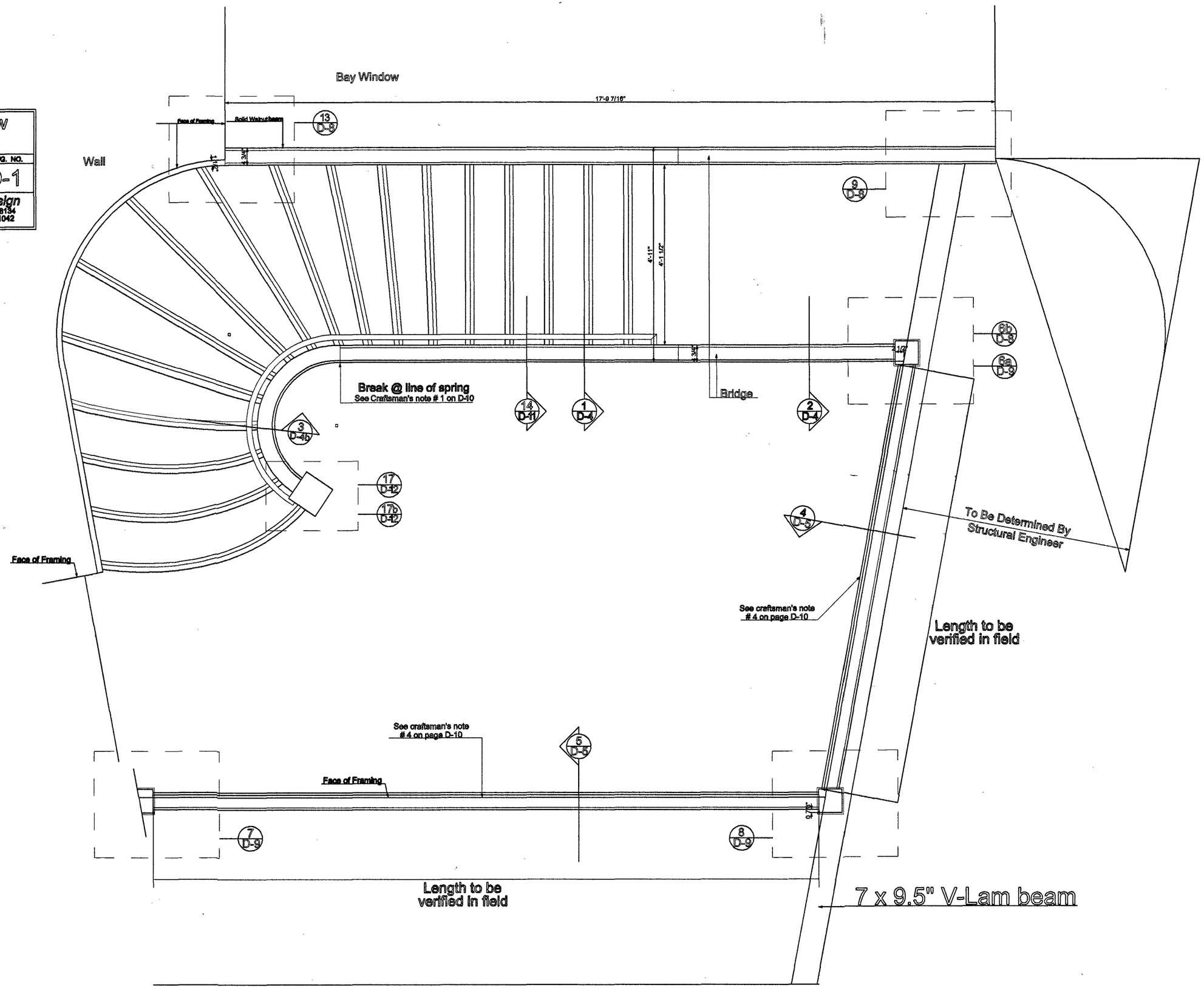
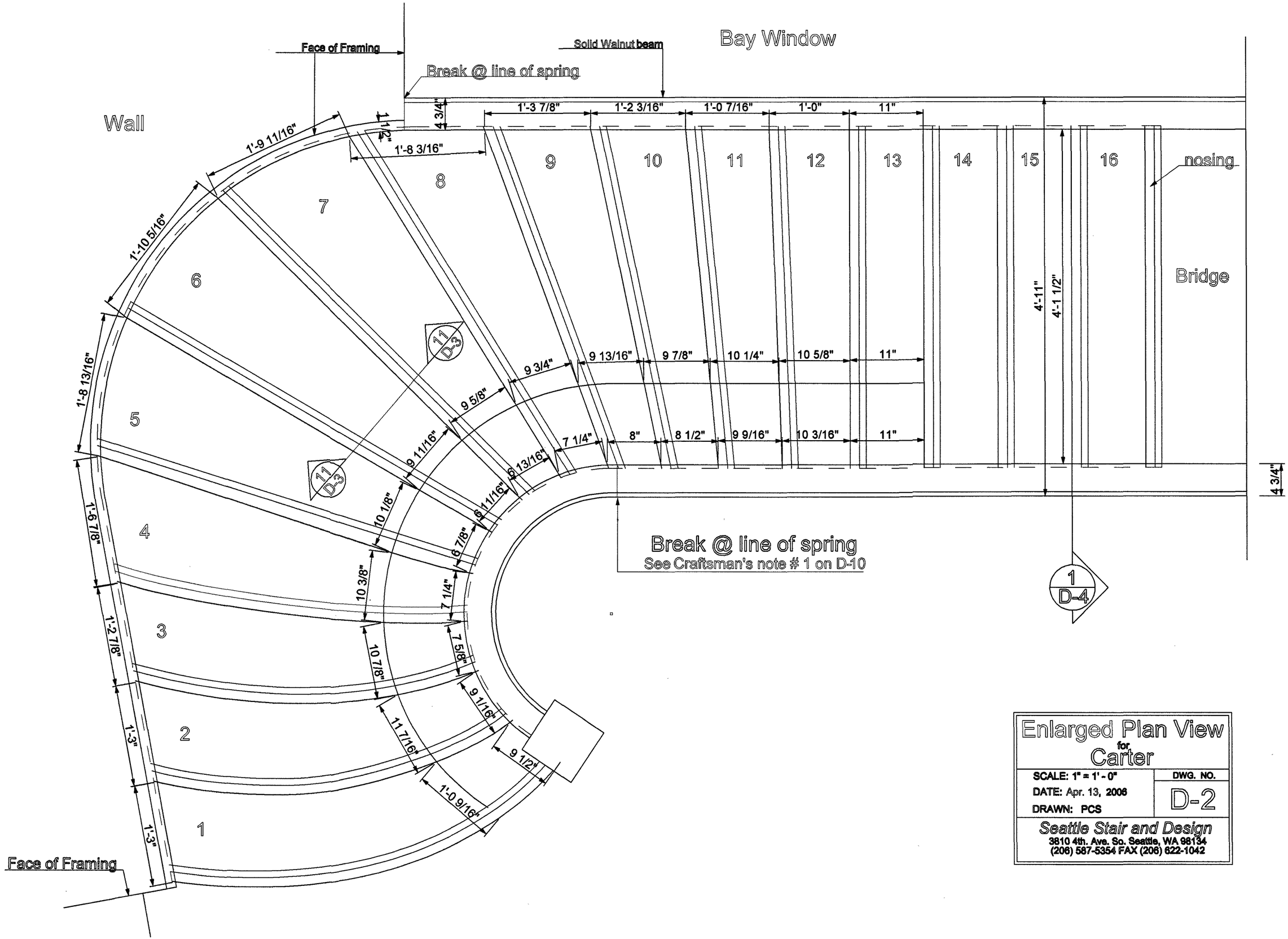
310 Spring St. P.O. Box 2505 Friday Harbor WA 98250
360 378 3070 FAX 360 378 9527 email: davidwaldron@interisland.net

# Full Plan View for Carter

| | |
|---|---|
| SCALE: ½" = 1' - 0" | DWG. NO. |
| DATE: Apr. 13, 2008 | D-1 |
| DRAWN: PCS | |

**Seattle Stair and Design**
3810 4th. Ave. So. Seattle, WA 98134
(206) 587-5354 FAX (206) 622-1042






# Enlarged Plan View for Carter

SCALE: 1" = 1' - 0"

DATE: Apr. 13, 2006

DRAWN: PCS

DWG. NO. D-2

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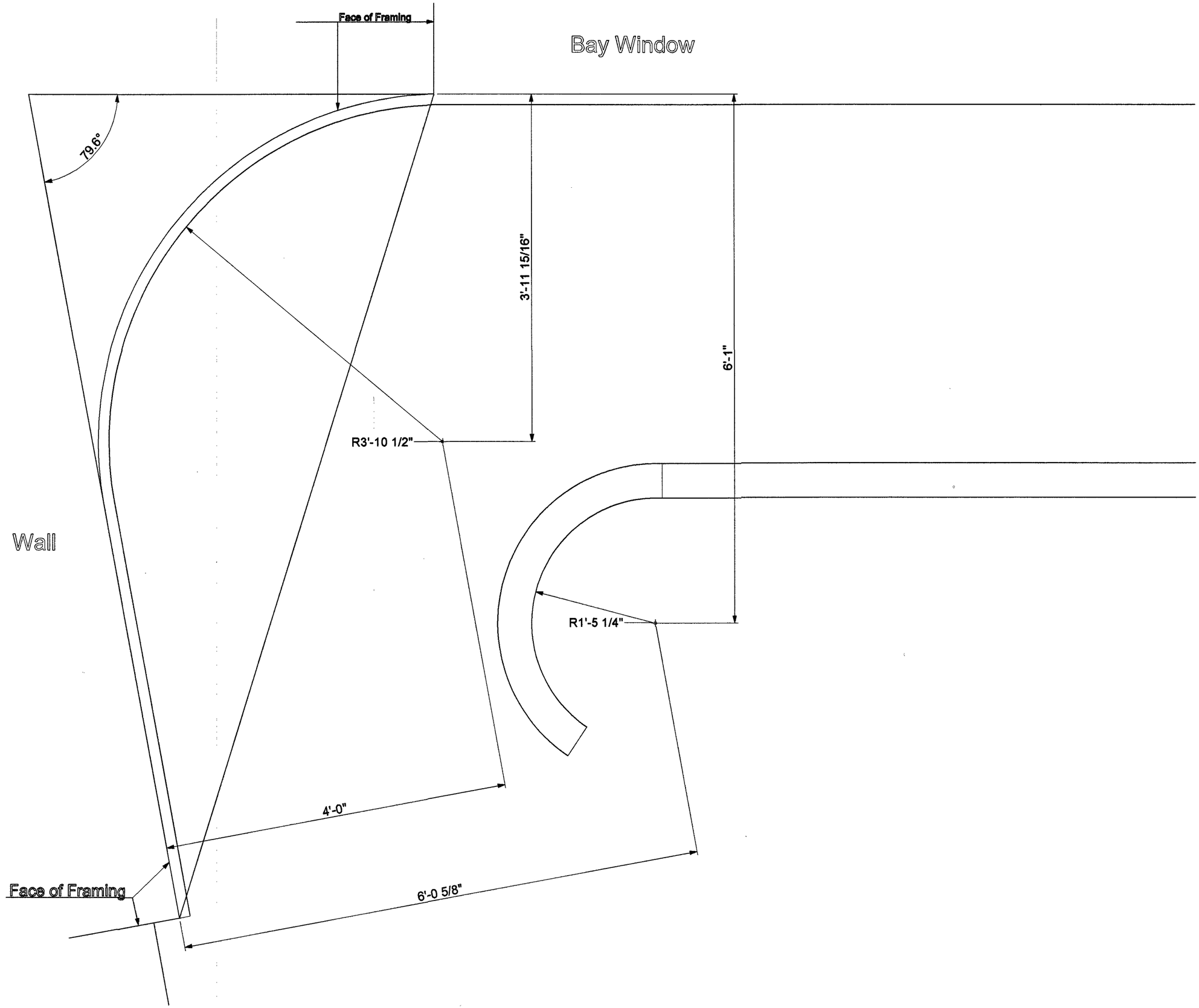
# Radial Point Location
for
# Carter

| | |
|---|---|
| SCALE: 1" = 1' - 0" | DWG. NO. |
| DATE: Feb. 28, 2006 | D-2b |
| DRAWN: PCS | |

*Seattle Stair and Design*
3810 4th. Ave. So. Seattle, WA 98134
(206) 587-5354 FAX (206) 622-1042



| Linear Fall Developments for Carter | |
|---|---|
| SCALE: 1/2" = 1' - 0" | DWG. NO. |
| DATE: Apr. 25, 2006 | D-3 |
| DRAWN: PCS | |

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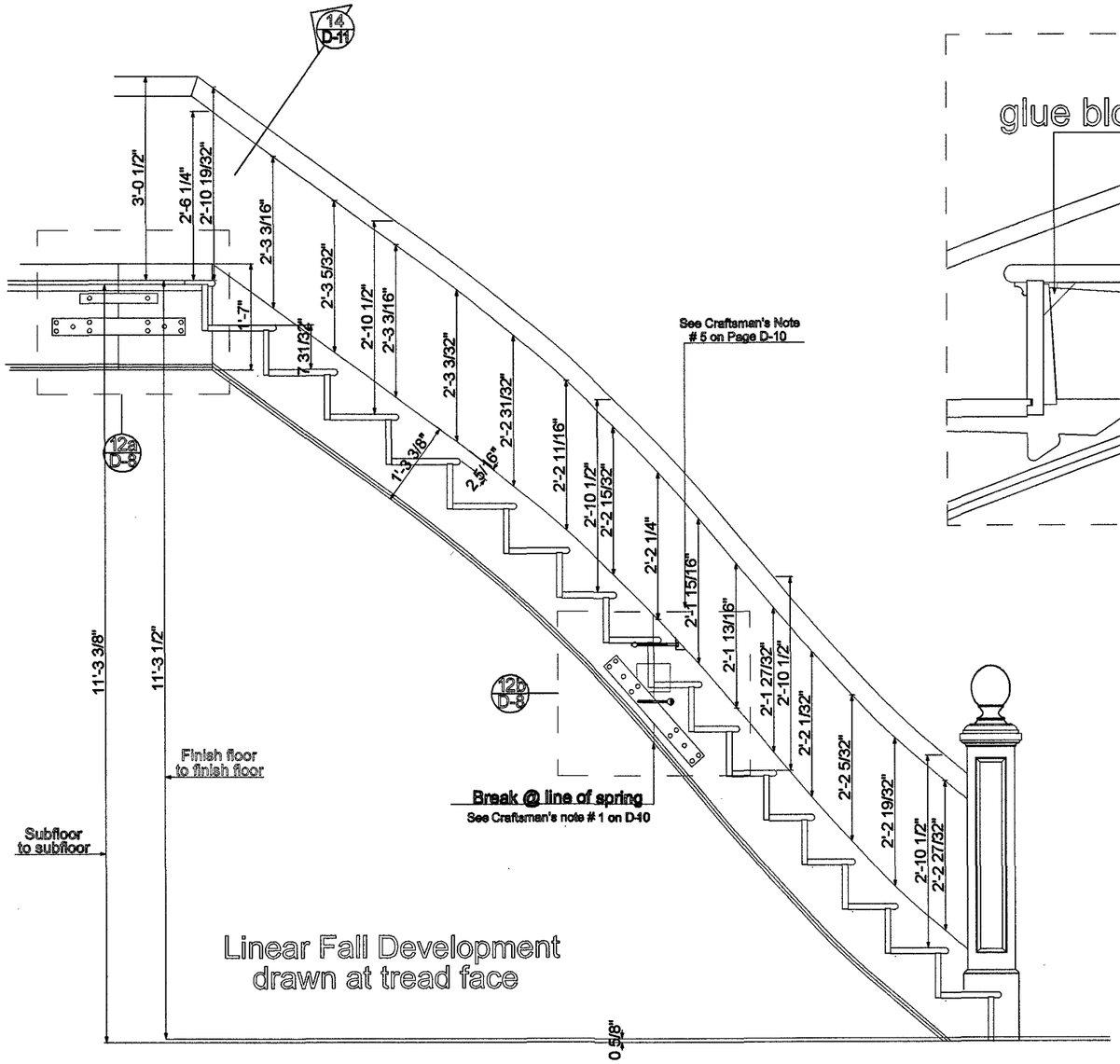
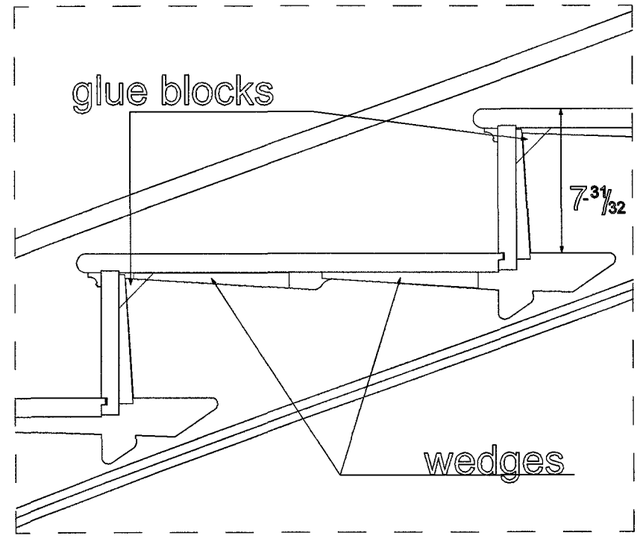
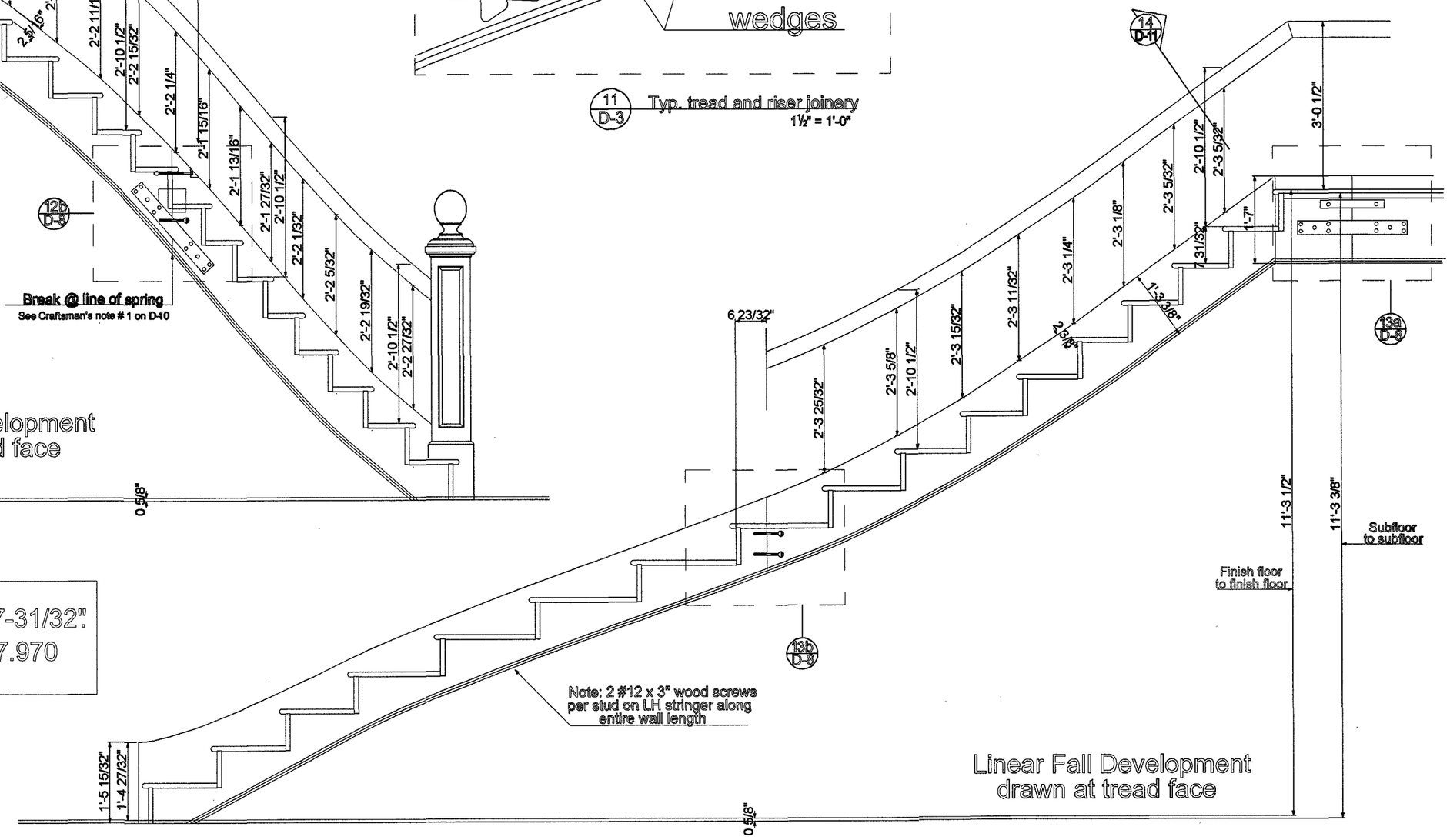



Linear Fall Development drawn at tread face




11 D-3 Typ. tread and riser joinery
1 1/2" = 1'-0"




Linear Fall Development drawn at tread face

Rise Shown at 7-31/32".
Actual rise is 7.970

| Stair and Balcony Cross Sections for Carter | |
|---|---|
| SCALE: 3" = 1' - 0"<br>DATE: Apr. 13, 2006<br>DRAWN: PCS | DWG. NO.<br>D-4 |

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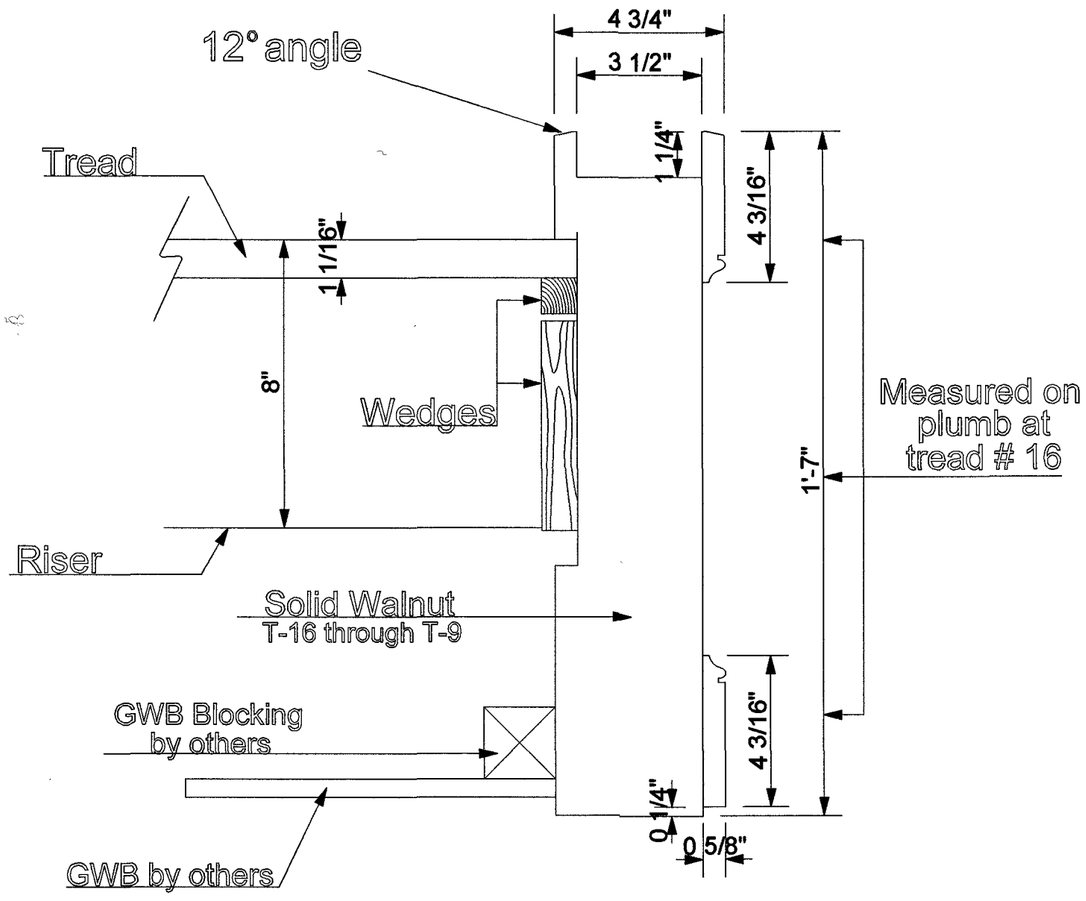
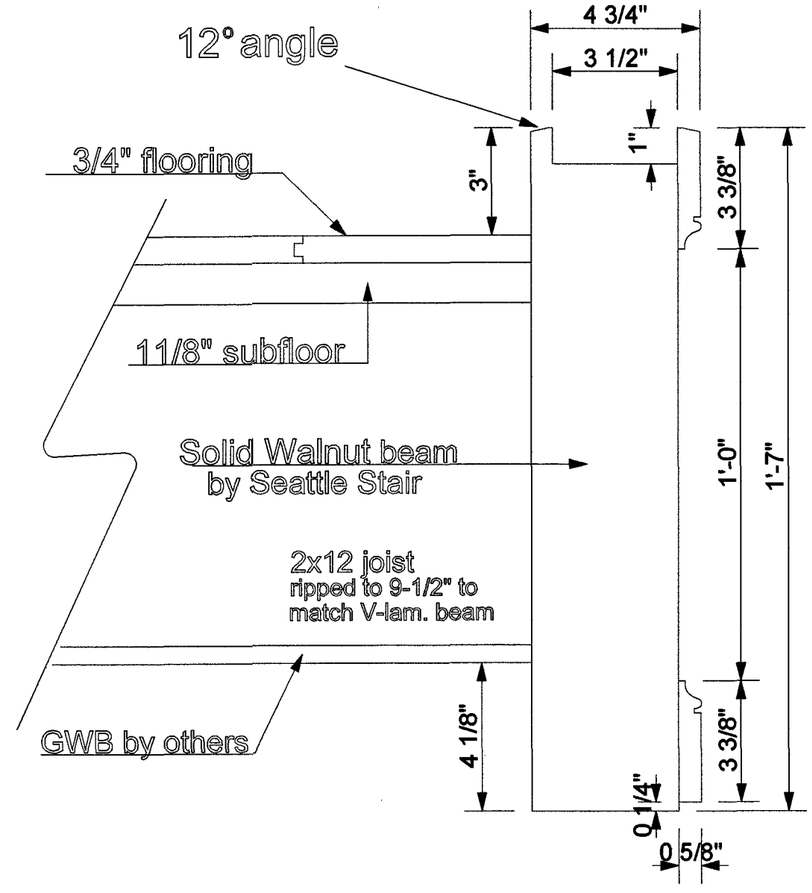



1 D-4 Grand Stair Section




2 D-4 Bridge Section

Stair and Balcony Cross Sections
for
Carter

| | |
|---|---|
| SCALE: 3" = 1' - 0" | DWG. NO. |
| DATE: JAN.28, 2006 | D-4b |
| DRAWN: PCS | |

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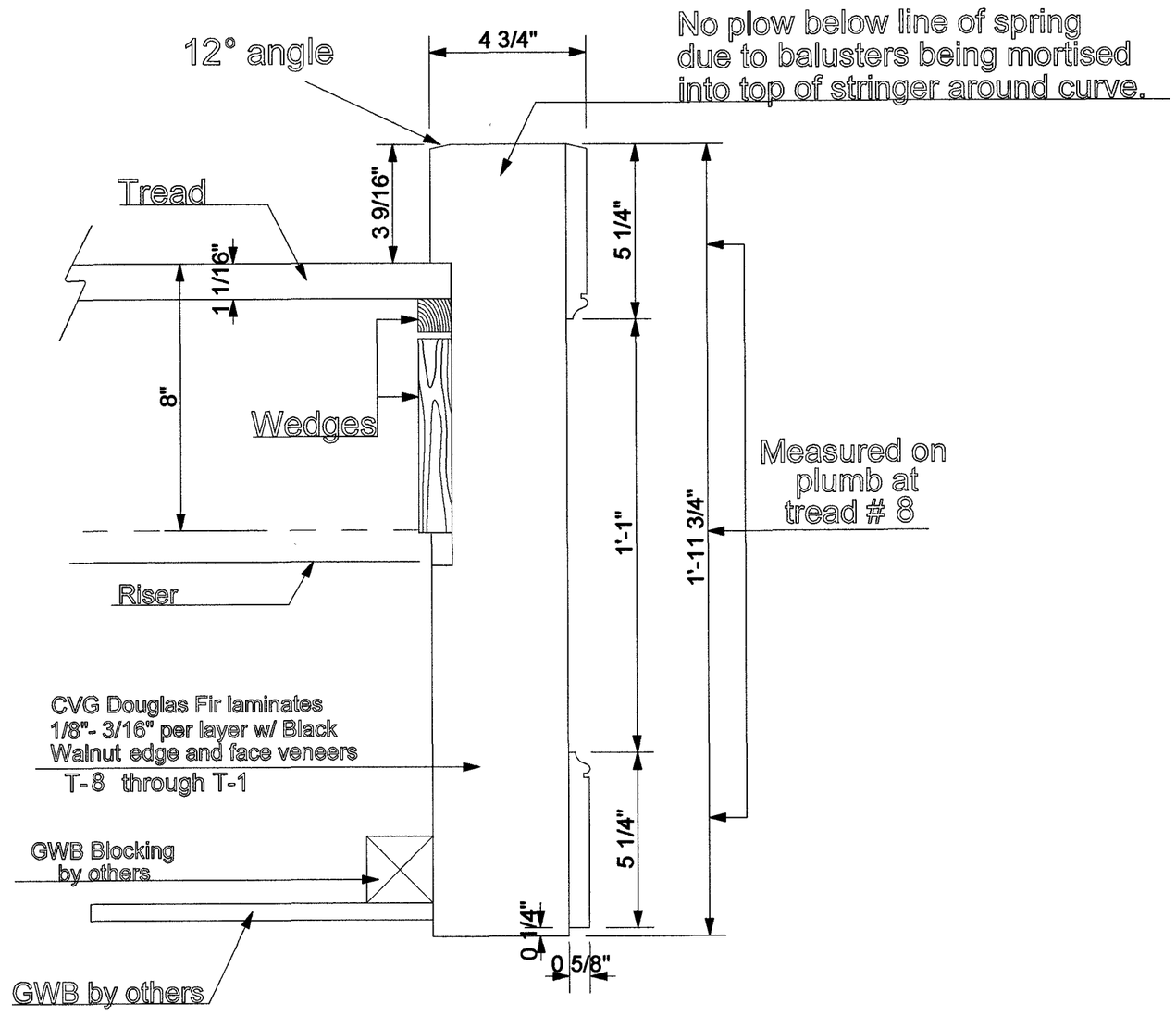


3
D-4b
Grand Stair Section

| Stair and Balcony Cross Sections for Carter | |
|---|---|
| SCALE: 3" = 1' - 0" | DWG. NO. |
| DATE: Apr. 13, 2006 | D-5 |
| DRAWN: PCS | |

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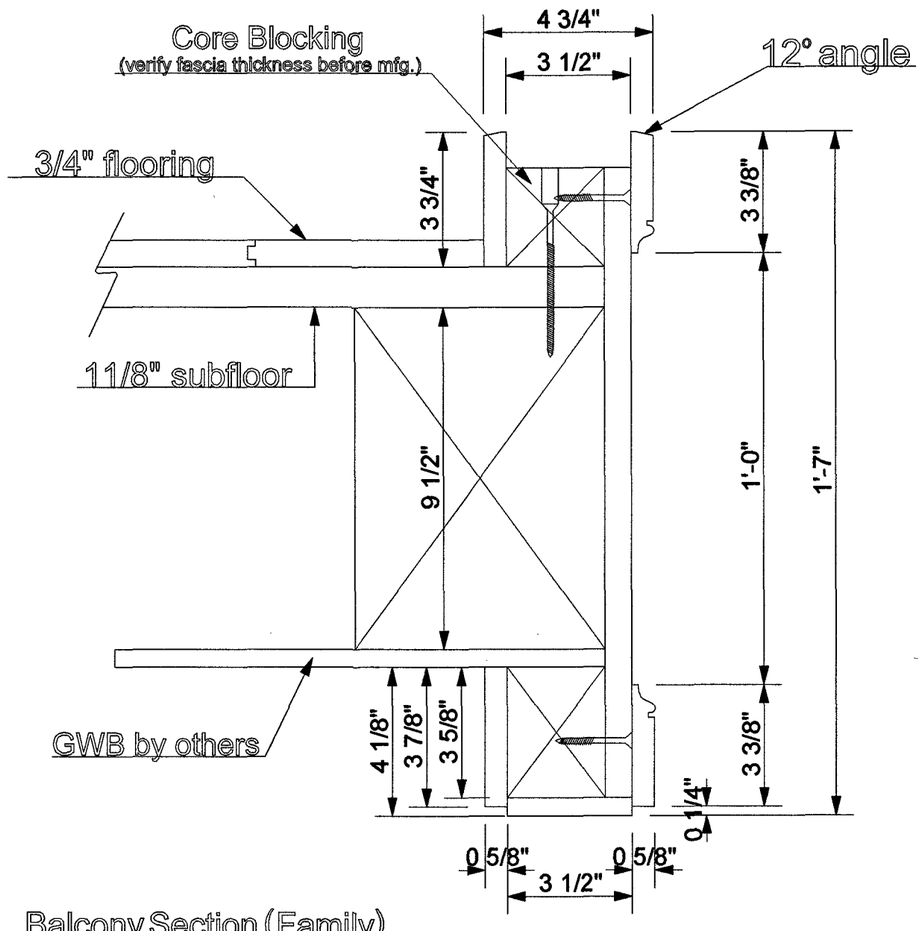
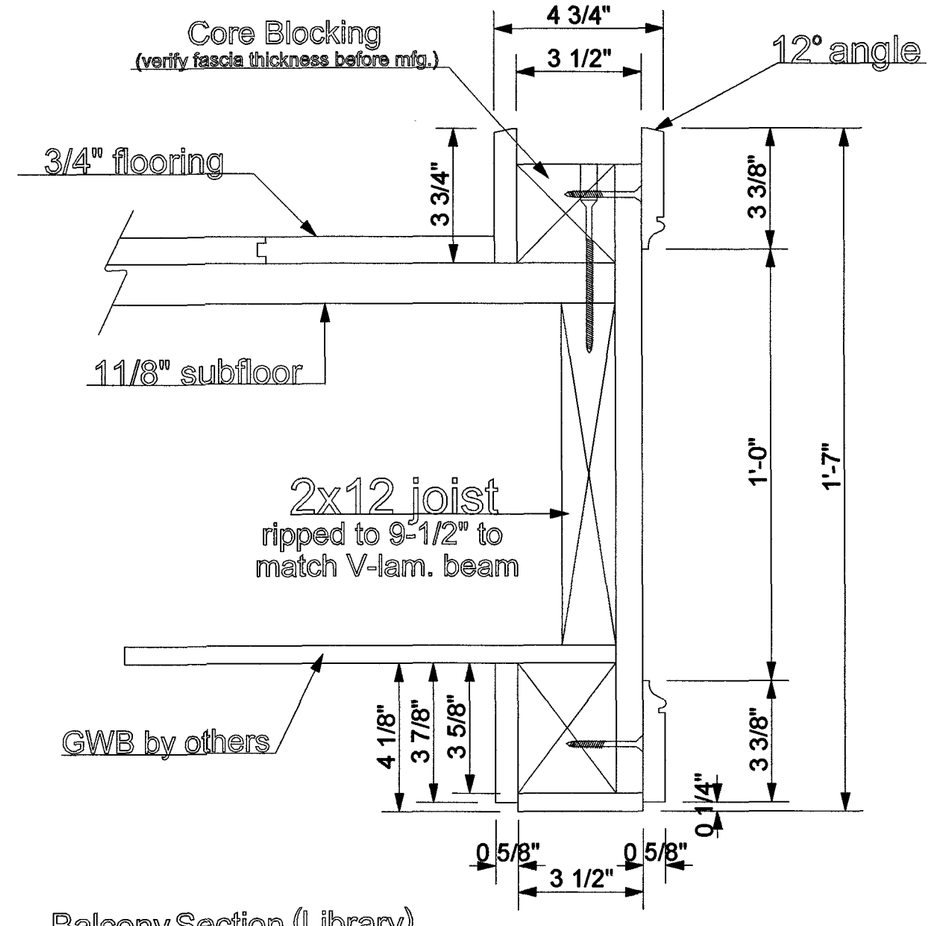
(206) 587-5354 FAX (206) 622-1042

NOTE: All balcony beams, joists, GWB, flooring, subfloor, etc. by others except walnut beams @ bay window

NOTE: Around the bridge, the first floor ceiling wil be 3/8" lower than the family wing.




4 / D-5 Balcony Section (Family)




5 / D-5 Balcony Section (Library)

Inside Stringer and Balcony Panels

for

Carter

| | |
|---|---|
| SCALE: ¾" = 1' - 0" | DWG. NO. |
| DATE: Apr. 13, 2006 | D-6 |
| DRAWN: PCS | |

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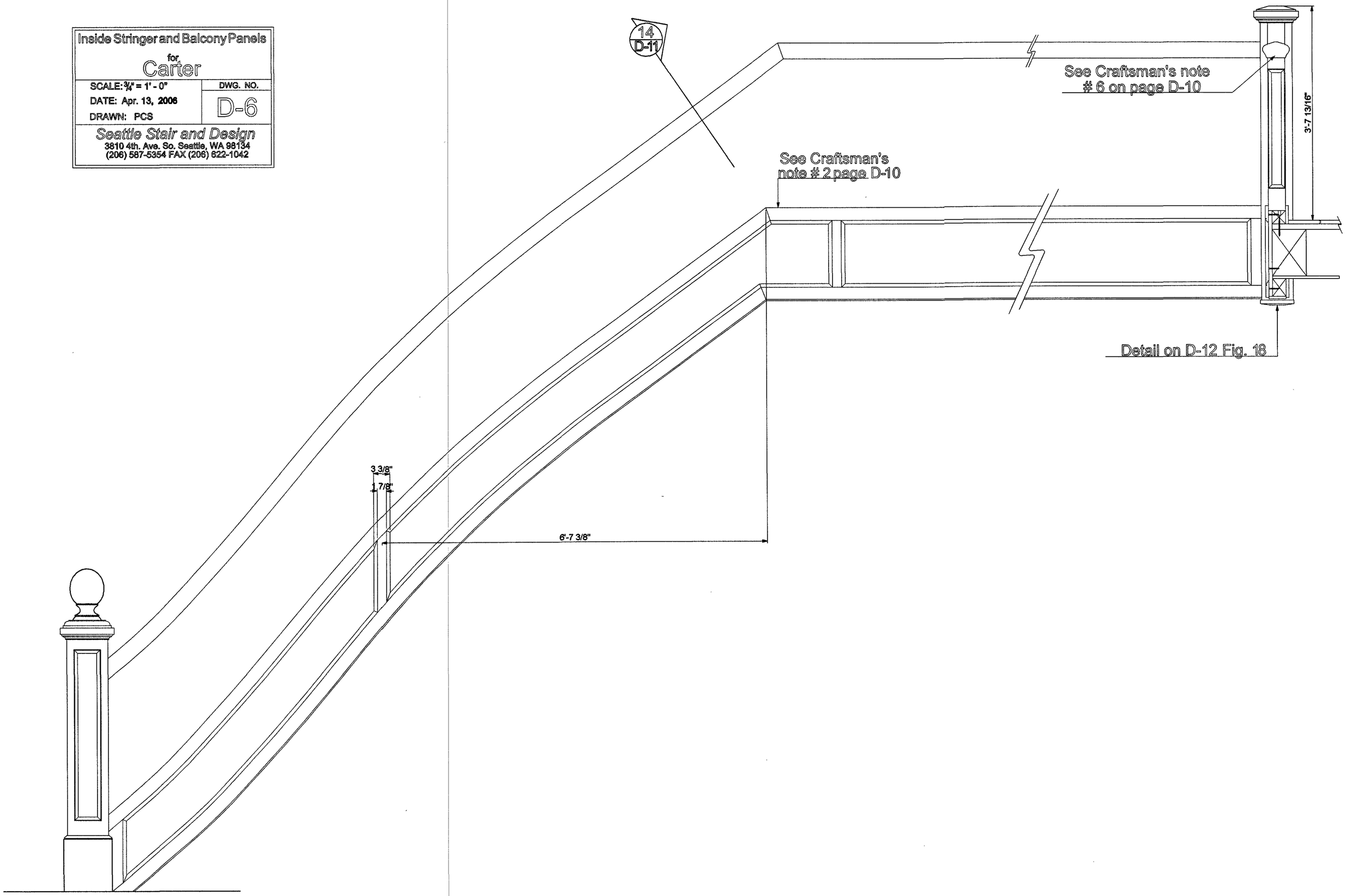

Newels in Elevation and Section
for
Carter

SCALE: 3" = 1' - 0"
DATE: Apr. 20, 2006
DRAWN: PCS

DWG. NO.
D-7

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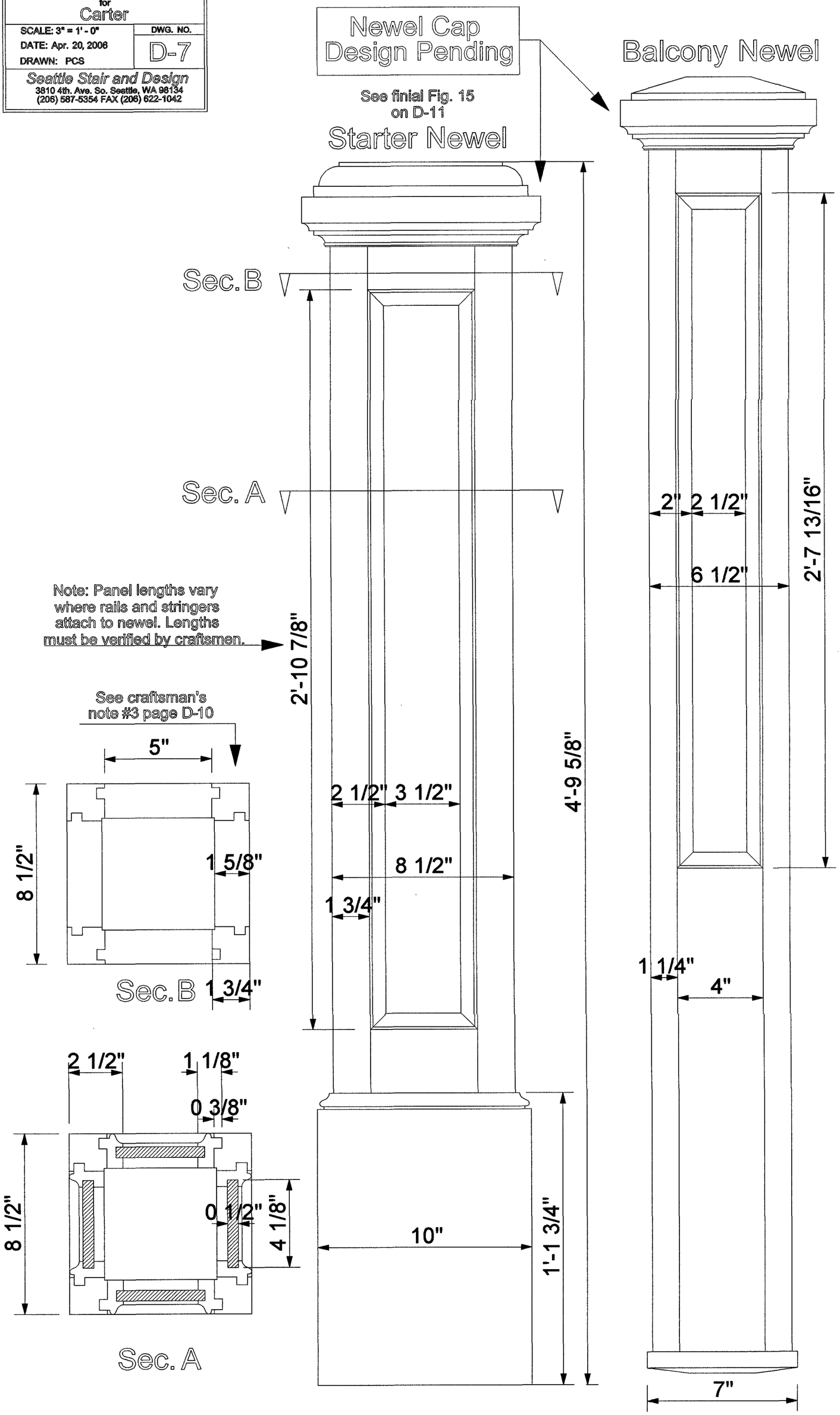

Steel Re-enforcement Details
for
Carter

| | |
|---|---|
| SCALE: 1-1/2" = 1'-0" | DWG. NO. |
| DATE: Apr. 20, 2006 | D-8 |
| DRAWN: PCS | |

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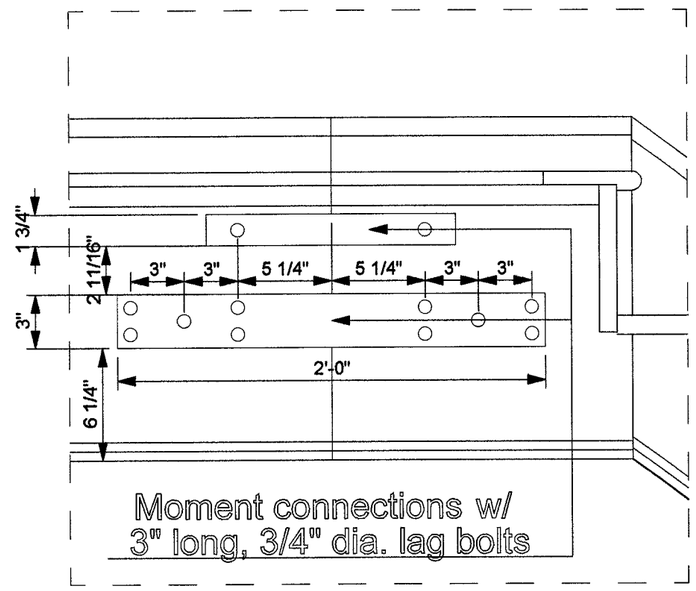
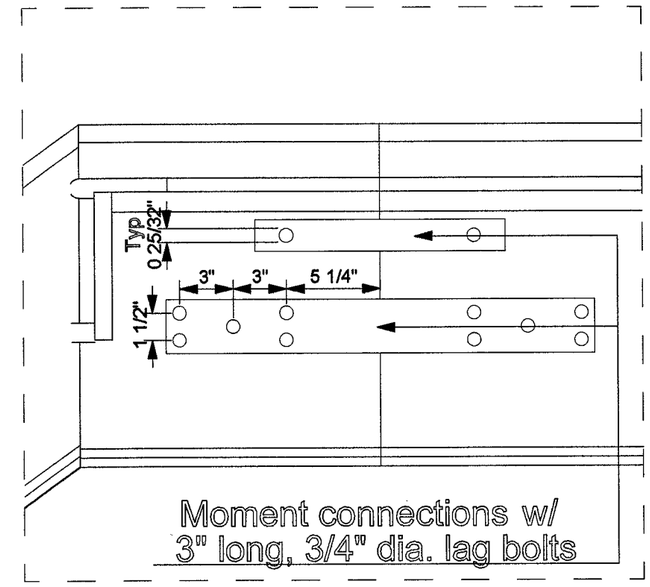
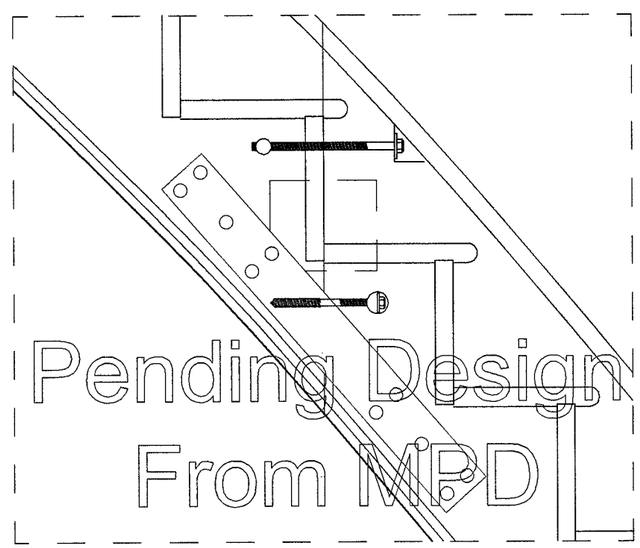


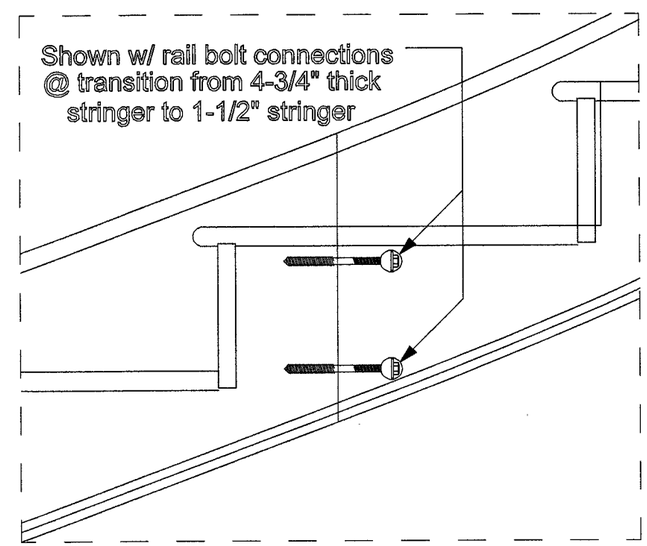

12a D-8 Inside Stringer @ top of stairs




13a D-8 Outside Stringer @ top of stairs




12b D-8 Inside Stringer @line of spring




13b D-8 Outside Stringer@line of spring

Steel Re-enforcement Details
for
Carter

| | |
|---|---|
| SCALE: 1-1/2" = 1'-0" | DWG. NO. |
| DATE: Feb. 28,2006 | D-8b |
| DRAWN: PCS | |

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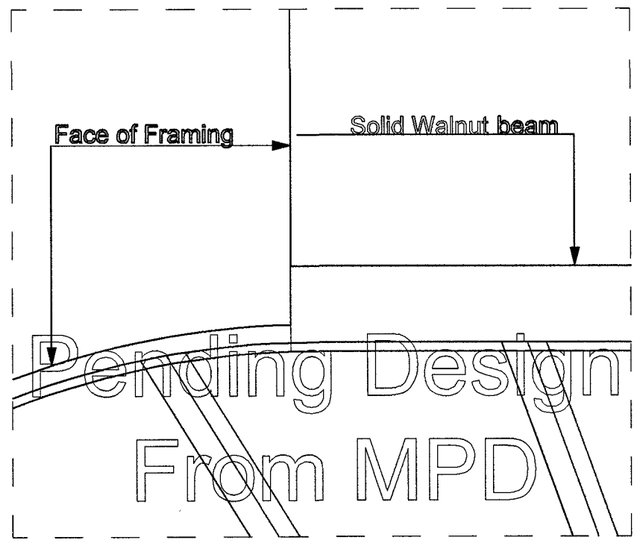
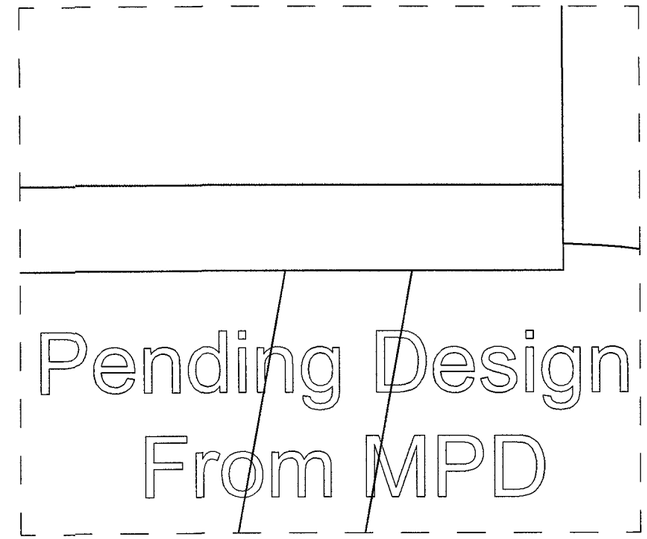
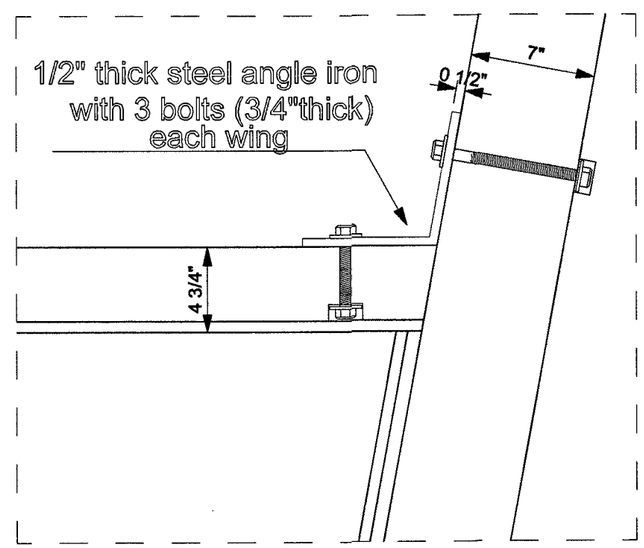



10 / D-8 Outside Stringer
@ left hand side of bay window




9 / D-8 Outside Stringer
@ right hand side of bay window




6b / D-8 Inside Stringer
bridge to 7x9-1/2 beam

# Newel Details for Carter

| | |
|---|---|
| SCALE: NTS | DWG. NO. |
| DATE: Feb. 28,2006 | D-9 |
| DRAWN: PCS | |

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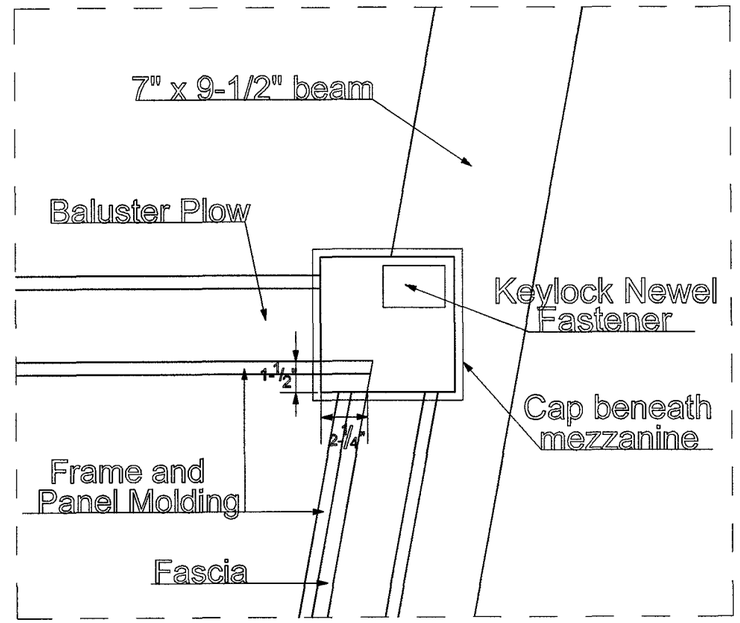
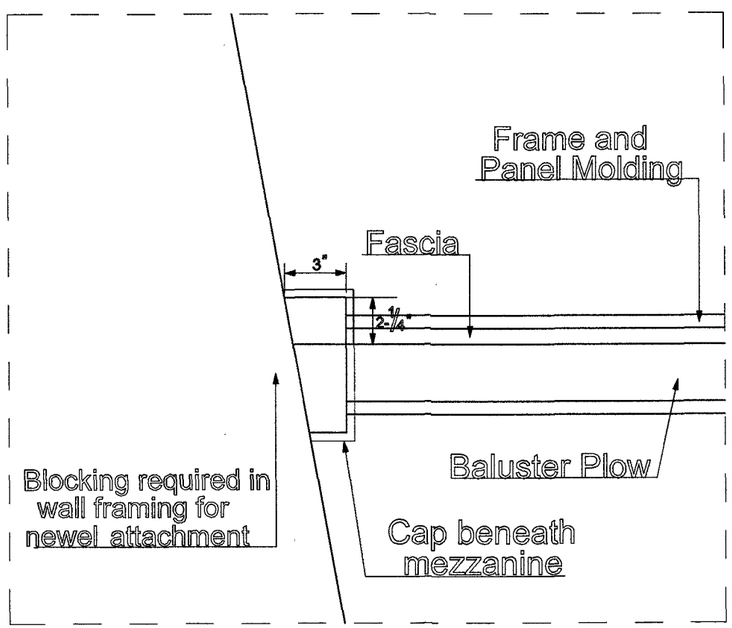
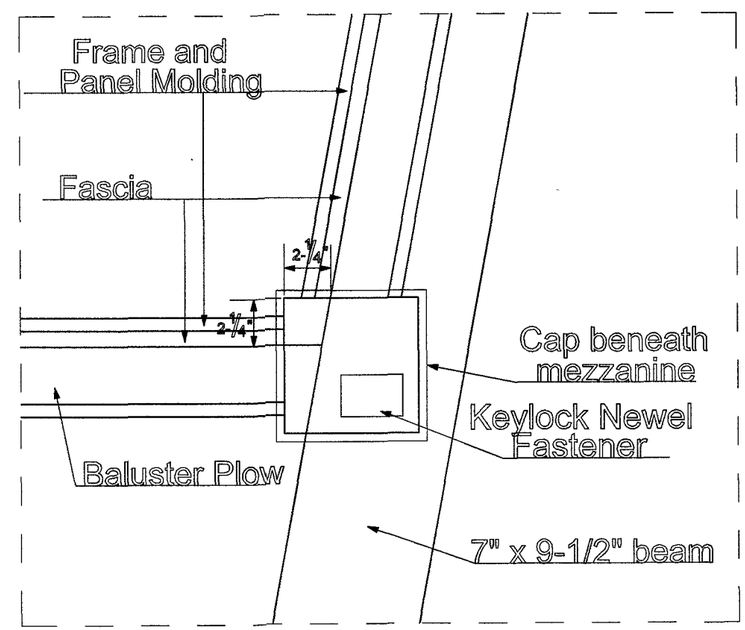



6a / D-9 — Balcony Newel pos. 1
Bridge / Family




7 / D-9 — Balcony Newel pos. 3
Library




8 / D-9 — Balcony Newel pos. 2
Library / Family

# Craftsman's Notes for Carter

SCALE: ¾" = 1' - 0"
DATE: Apr. 13, 2006
DRAWN: PCS
DWG. NO. D-10

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**# 1**

There is a 1/4 inch reveal that exists between the fillet and top of stringer. As the balusters from T-1 to T-9 are all mortised into the top of the stringer, there will be no fillet. Dropping the trim in order to create a 1/4 inch reveal and rabbeting the top of stringer on the stair side will create a false fillet. As this will create a height difference of a 1/4" between the two segments of the inside stringer, they will need to be blended together at the line of spring joint and further up if neccessary. This may also cause the fillet to be thinner at this point

**# 2**

3 Structural balusters at this location instead of newel post.

1-3/4 Φ structural dowels turned on balusters and epoxied into stringer north of beam joint

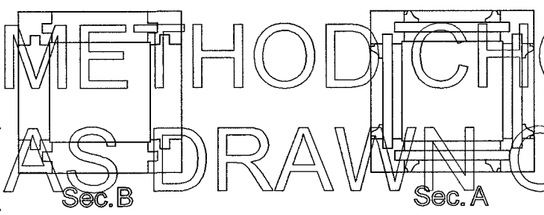
**# 3**

The construction of the newels can be executed in one of two ways. Method 1 (as shown on D-7) The stiles are made out of solid 2-1/2" square stock that the molding profile is directly cut into. In the areas where the stiles are connected to the rails, the molding profile is cut away to leave a flat shoulder that the rail is either tenoned or biscuited into. The area where the molding profiles on the stiles and rails meet should be mitred.

Method 2 (Showroom Pedestal method) is as shown.

The real difference lies within treating the moldings as separately milled and installed pieces as opposed to being integral with the stiles.

ALTERNATE METHOD CHOSEN BY FABRICE (AS DRAWN ON D-7)




NTS

**#4**

Five structural dowel balusters located on the library side.
Two structural dowel balusters located on the family side

**#5**

Curved IR stringer to be laminated at start of project to allow cure / shrinkage time before installation

**#6**

Craftsmen must remain aware of newel orientation and position when laying out panel heights. As the railing dies into the newels, the panels facing the railing must be adjusted accordingly. The top of the visible section of panel should be 2" below the bottom of the handrail.

| Handrail, Baluster, Finial Details for Carter | |
|---|---|
| SCALE: Varies | DWG. NO. |
| DATE: Apr. 13, 2006 | D-11 |
| DRAWN: PCS | |

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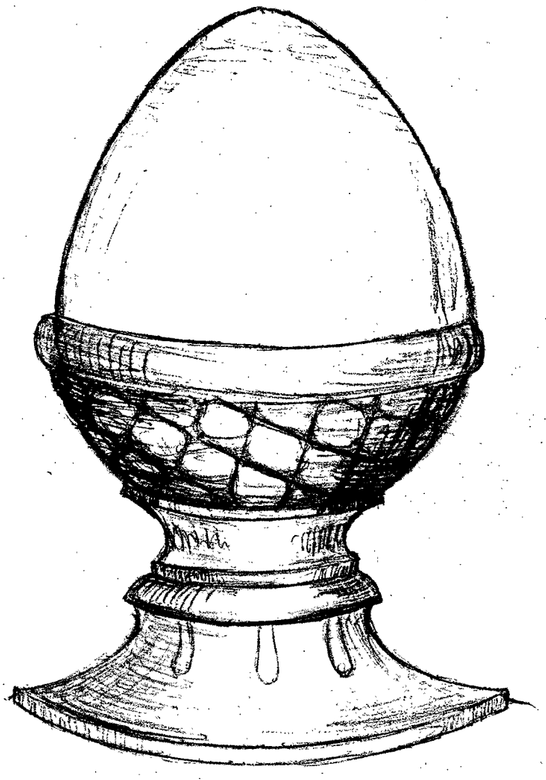
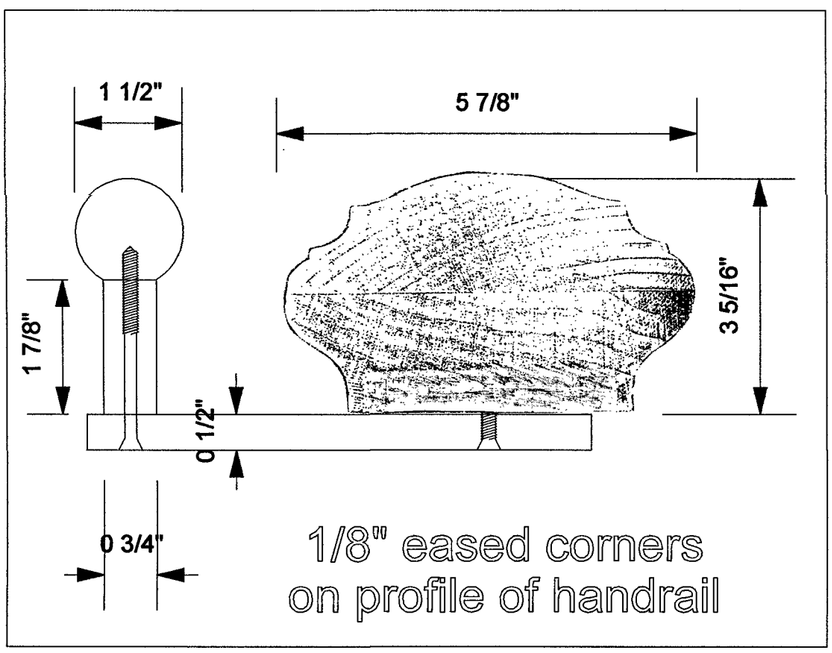
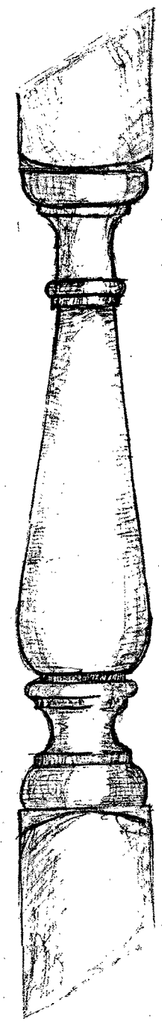


15 D-11 Finial for starter newel NTS



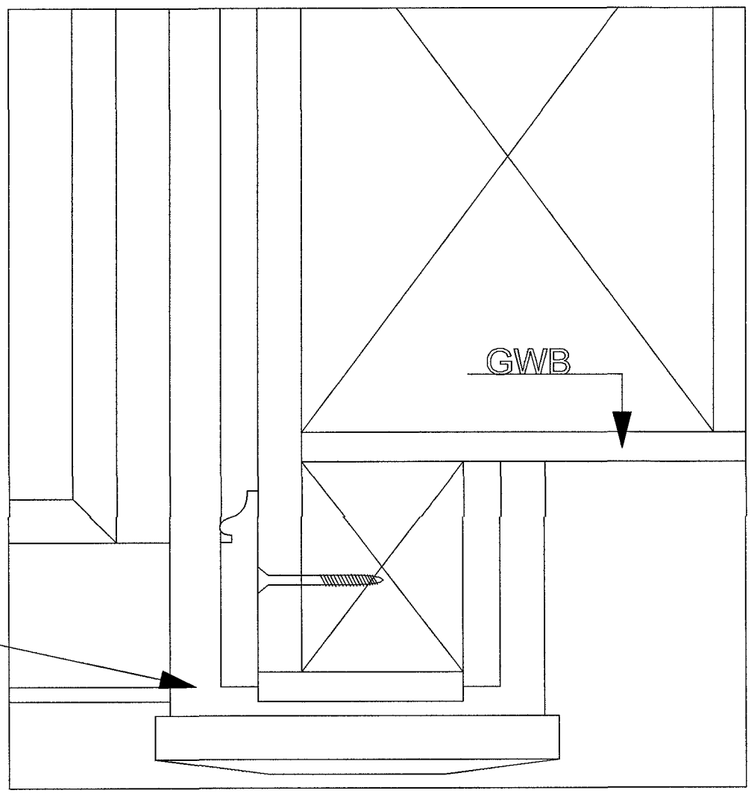

14 D-11 Handrail and grabrail with bracket shown half size



16 D-11 Typical Baluster NTS

| Millwork Joinery for Carter | |
|---|---|
| SCALE: Varies | DWG. NO. |
| DATE: Apr. 13, 2006 | D-12 |
| DRAWN: PCS | |
| Seattle Stair and Design<br>3810 4th. Ave. So. Seattle, WA 98134<br>(206) 587-5364 FAX (206) 622-1042 | |

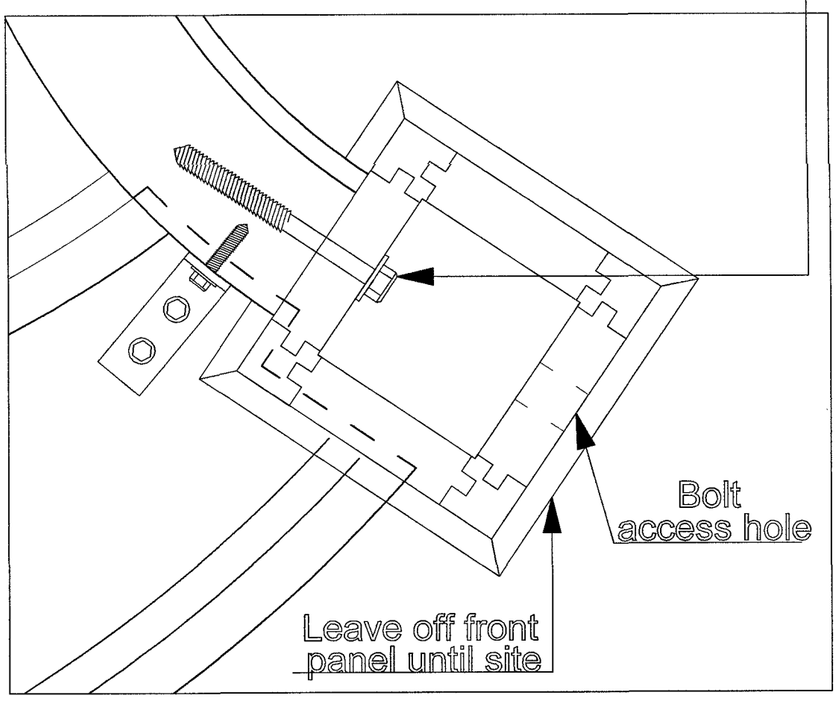
18 / D-12 Ceiling Cap Detail
NTS



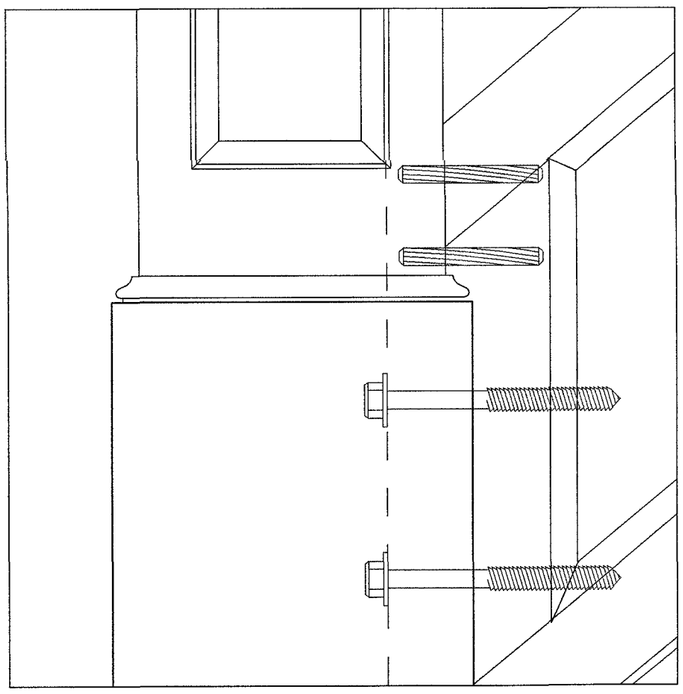

Newel shank from top of balcony continues down the face of the balcony rim. It hangs beyond the underside of the soffit about 4-1/8" (+/-). The newel extension attaches to the exposed shank via tenons or biscuits and the ceiling cap attaches to the end to finish the newel. This gives the appearance that the newel has extended through the balcony.

Variation 2

Stringer butts into main body of newel as the plinth wraps around it. The newel is bolted to the stringer behind the plinth and doweled above the plinth (fig. 17 b) Tread and riser 1 are housed into the starter newel.

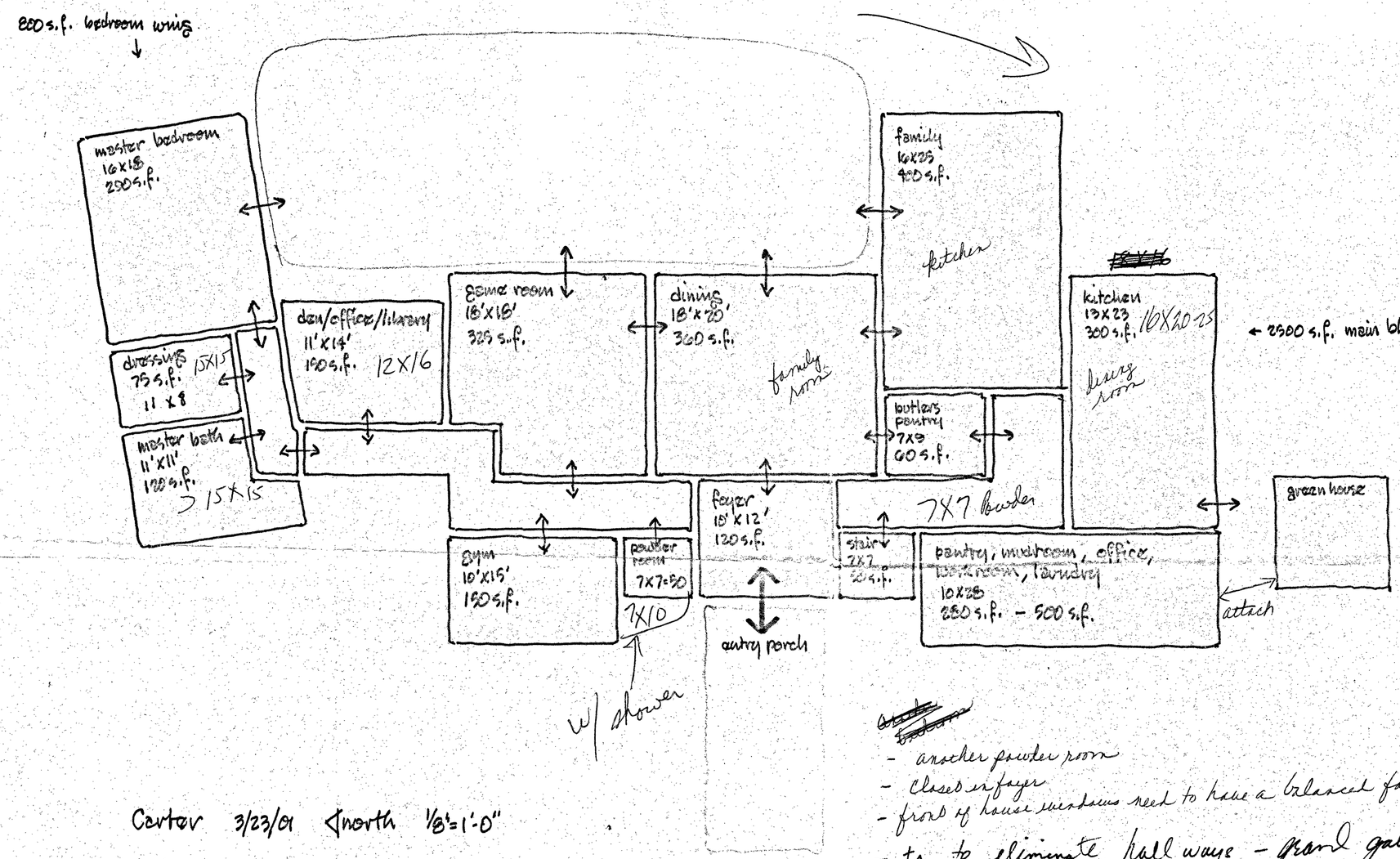



17 / D-12 Stringer / Starter Newel Connection
3" = 1'-0"



17b / D-12 Stringer / Starter Newel Connection
3" = 1'-0"

| Mahlen | Existing | New |
|---|---|---|
| Kitchen | 18 X 16 | |
| Family | 21 X 11 | |
| Dining | 11½ x 15 | |
| Living | 17 X 20 | |
| Master | 18 X 14 | 27 X 14½ |
| Master Bath | 9 x 17 | 15½ x 12 |
| | | 5 x 8 |
| upstairs bedroom | 14 x 12 | |
| upstairs bedroom | 8 x 9½ | |
| Laundry | 10 x 5½ | |
| Office | 14½ x 12½ | 21 X 11½ |
| Office Bath | 10 x 5 | |
| Office Closet | 5½ x 6 | master Closet 13X14 |
| | | " 3X7 |
| | | Gym 7X13 |




Carter 3/23/01 ↑north 1/8"=1'-0"

- another powder room
- closed in foyer
- front of house windows need to have a balanced facade w/ windows
- try to eliminate hall ways - grand galleries & walk-thru room

1st FL. 2500 + 800 = 3300 □'

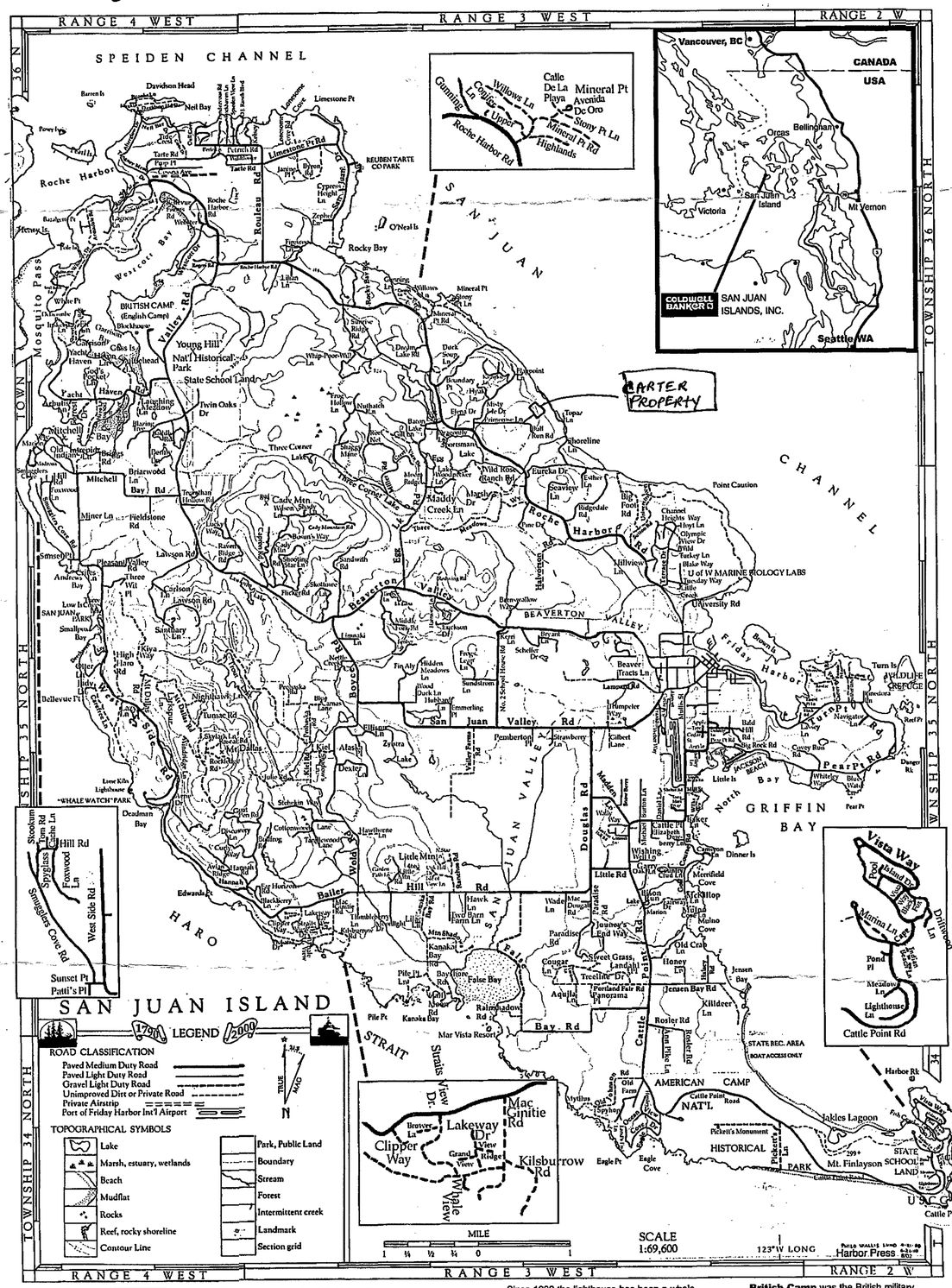
2nd FL 1500 □'

Main
70w X 35L

Bed wing
16w X 40L

Connector
15w X 15L

# SAN JUAN ISLAND TOPOGRAPHICAL MAP




COLDWELL BANKER

## SAN JUAN ISLANDS, INC.

Independently Owned and Operated Office

## POINTS OF INTEREST

**Cattle Point** was so named after a ship transporting cattle from Victoria was wrecked here.
**American Camp** the military settlement for the Americans during the "Pig War".
**Kanaka Bay** The Kanaka people, whose main settlement was near this bay, were brought over from the Hawaiian Islands to be sheepherders for the Hudsons Bay Company. A few native American relics and graves have been found here also.
**Lime Kiln Lighthouse** was built around 1880 and the lands surrounding were acquired by Cowell in connection with a lime kiln operation, an important industry on this island for many years. Since 1983 the lighthouse has been a whale research station, with underwater microphones to study communications between the whales. In 1984, the surrounding land became a state Whale Watching Park, the first of its kind in the nation.
**Small Pox Bay** Native American Indians, the original inhabitants of the islands, had lived here for perhaps thousands of years. The name of this bay recalls the many who died from small pox and from pneumonia, attributed to cold saltwater baths taken in the bay to treat fever.
**Smuggler's Cove** Historical accounts detail the use of the cove by outlaws to smuggle Chinese laborers, alcohol during prohibition times, opium, diamonds and sheeps' wool.
**British Camp** was the British military settlement during the "Pig War".
**Roche Harbor** now stands on the spot first occupied as a Hudson's Bay Post. The name is derived from a member of the boundary survey staff, Lt. Richard Roche. When the U.S. boundary was settled, it became the Roche Harbor Lime Quarries and changed hands several times until purchased by Jon McMillin in 1886. He was responsible for making this harbor a Port of Entry with a custom's office and created the first island empire. Now an internationally renowned resort, this was once the largest lime production company in the Northwest.

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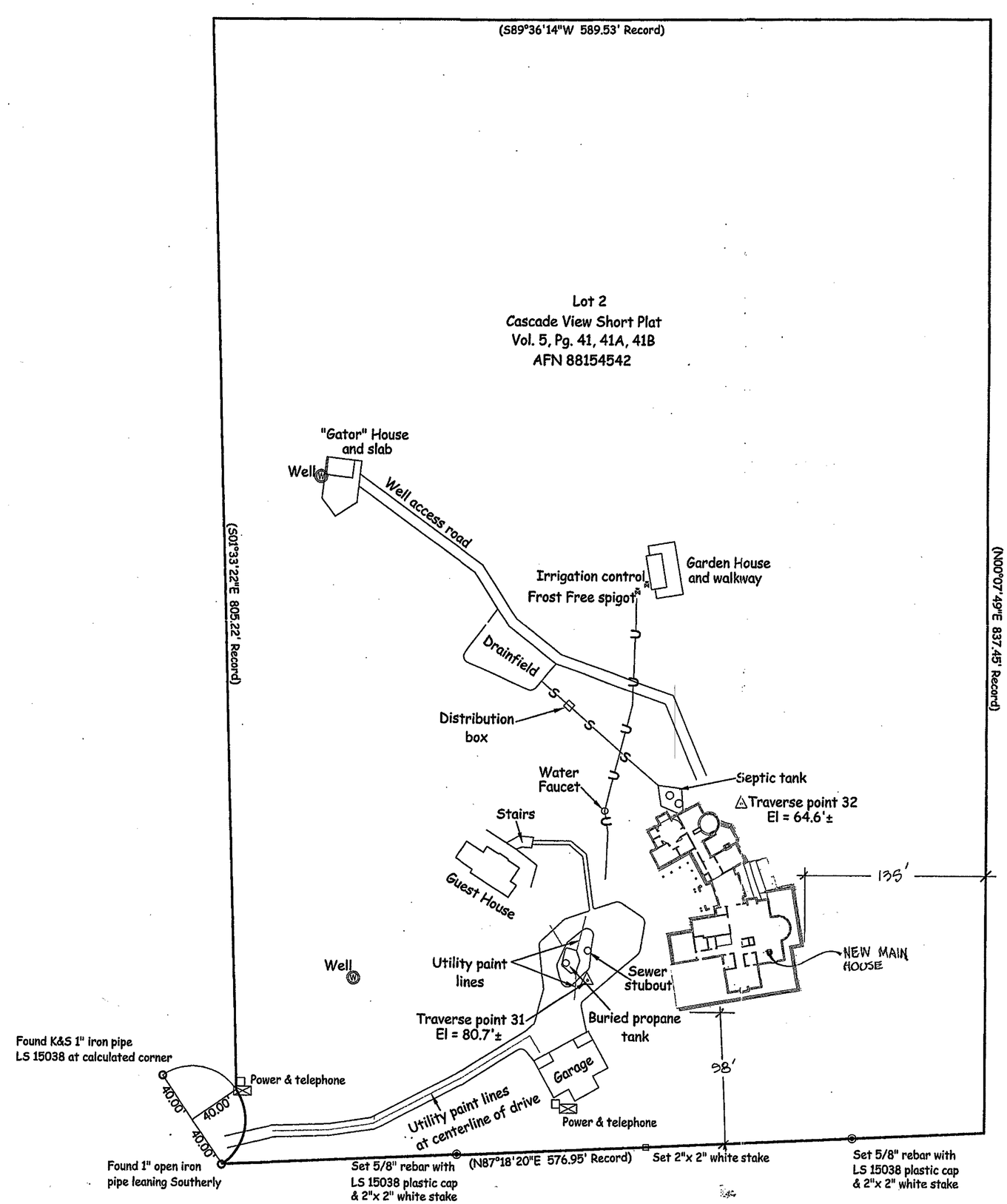
This is site plan submitted for site plan approval.
Permit center will review and then schedule a site visit.




## Notes

1. This is a topographic survey. As such it is not required to be recorded per AGO #1 to the Survey Recording Act. For more Survey information, please refer to Volume 5 of Short Plats, Pages 41, 41A, & 41B, records of San Juan County, Washington.

2. This drawing does not purport to show any recorded or unrecorded easements.

GRAPHIC SCALE

60 0 30 60 120 240

( IN FEET )
1 inch = 60 ft.

THOMAS C. STARR
STATE OF WASHINGTON
15038
REGISTERED
PROFESSIONAL LAND SURVEYOR
EXPIRES 7/21/03

1/15/03

SITE MAP

Prepared for

# Michael Carter

A portion of the SW-NW, Sec. 34,
Twnshp 36 North, Range 3 West, W.M.
San Juan Island, San Juan County, WA


THOMAS C. STARR & ASSOC., INC.
P.O. BOX 2997
FRIDAY HARBOR
(360)378-5072
WASHINGTON 98250
CIVIL ENGINEERING LAND SURVEYING PLANNING


| | | |
|---|---|---|
| CAD BY: STM | DATE: 8/2/01 | JOB NO.: 641 |
| CHK BY: TCS | Rev: 8/3/01<br>8/30/02<br>10/29/02 | SCALE: 1"=60' |
| FLD BK: 42,49,50 | | ACAD VER 14.0 |

SURVEYED BY FIELD TRAVERSE WITH A TOPCON GTS-211D 5" SYSTEM