BESS

FEMA

NATIONAL FLOOD INSURANCE PROGRAM

ELEVATION CERTIFICATE

AND

INSTRUCTIONS

U.S. DEPARTMENT OF HOMELAND SECURITY
Federal Emergency Management Agency
National Flood Insurance Program

ELEVATION CERTIFICATE

Important: Read the instructions on pages 1-9.

OMB No. 1660-0008
Expires March 31, 2012

SECTION A - PROPERTY INFORMATION

For Insurance Company Use:
Policy Number
Company NAIC Number

A1. Building Owner's Name: CHARLES BESS

A2. Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.: LOT 48 FRENCH'S NECK WEST

City: NEAR GREENSPRING State: WV ZIP Code:

A3. Property Description (Lot and Block Numbers, Tax Parcel Number, Legal Description, etc.): DB 463, PAGE 307 & MAB BOOK 5, PAGE 126

A4. Building Use (e.g., Residential, Non-Residential, Addition, Accessory, etc.): RETREAT

A5. Latitude/Longitude: Lat. _____ Long. _____ Horizontal Datum: ☐ NAD 1927 ☒ NAD 1983

A6. Attach at least 2 photographs of the building if the Certificate is being used to obtain flood insurance.

A7. Building Diagram Number: 5

A8. For a building with a crawlspace or enclosure(s):
- a) Square footage of crawlspace or enclosure(s) _____ sq ft
- b) No. of permanent flood openings in the crawlspace or enclosure(s) within 1.0 foot above adjacent grade _____
- c) Total net area of flood openings in A8.b _____ sq in
- d) Engineered flood openings? ☐ Yes ☐ No

A9. For a building with an attached garage:
- a) Square footage of attached garage _____ sq ft
- b) No. of permanent flood openings in the attached garage within 1.0 foot above adjacent grade _____
- c) Total net area of flood openings in A9.b _____ sq in
- d) Engineered flood openings? ☐ Yes ☐ No

SECTION B - FLOOD INSURANCE RATE MAP (FIRM) INFORMATION

B1. NFIP Community Name & Community Number	B2. County Name	B3. State
HAMPSHIRE COUNTY	HAMPSHIRE	WV

B4. Map/Panel Number	B5. Suffix	B6. FIRM Index Date	B7. FIRM Panel Effective/Revised Date	B8. Flood Zone(s)	B9. Base Flood Elevation(s) (Zone AO, use base flood depth)
540226 0039	C	NOV. 7, 2002	–	AE	568.0

B10. Indicate the source of the Base Flood Elevation (BFE) data or base flood depth entered in Item B9.
☐ FIS Profile ☒ FIRM Community Determined ☐ Other (Describe) _____

B11. Indicate elevation datum used for BFE in Item B9: ☒ NGVD 1929 ☐ NAVD 1988 ☐ Other (Describe) _____

B12. Is the building located in a Coastal Barrier Resources System (CBRS) area or Otherwise Protected Area (OPA)? ☐ Yes ☒ No
Designation Date _____ ☐ CBRS ☐ OPA

SECTION C - BUILDING ELEVATION INFORMATION (SURVEY REQUIRED)

C1. Building elevations are based on: ☐ Construction Drawings* ☐ Building Under Construction* ☒ Finished Construction
*A new Elevation Certificate will be required when construction of the building is complete.

C2. Elevations – Zones A1-A30, AE, AH, A (with BFE), VE, V1-V30, V (with BFE), AR, AR/A, AR/AE, AR/A1-A30, AR/AH, AR/AO. Complete Items C2.a-h below according to the building diagram specified in Item A7. Use the same datum as the BFE.

Benchmark Utilized: FIRM Vertical Datum: NGVD 1929

Conversion/Comments: _____

		Check the measurement used.	
a) Top of bottom floor (including basement, crawlspace, or enclosure floor)	576.2	☒ feet	☐ meters (Puerto Rico only)
b) Top of the next higher floor	_____	☐ feet	☐ meters (Puerto Rico only)
c) Bottom of the lowest horizontal structural member (V Zones only)	_____	☐ feet	☐ meters (Puerto Rico only)
d) Attached garage (top of slab)	_____	☐ feet	☐ meters (Puerto Rico only)
e) Lowest elevation of machinery or equipment servicing the building (Describe type of equipment and location in Comments)	_____	☐ feet	☐ meters (Puerto Rico only)
f) Lowest adjacent (finished) grade next to building (LAG)	557.12	☒ feet	☐ meters (Puerto Rico only)
g) Highest adjacent (finished) grade next to building (HAG)	557.13	☒ feet	☐ meters (Puerto Rico only)
h) Lowest adjacent grade at lowest elevation of deck or stairs, including structural support	_____	☐ feet	☐ meters (Puerto Rico only)

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION

This certification is to be signed and sealed by a land surveyor, engineer, or architect authorized by law to certify elevation information. *I certify that the information on this Certificate represents my best efforts to interpret the data available. I understand that any false statement may be punishable by fine or imprisonment under 18 U.S. Code, Section 1001.*

☐ Check here if comments are provided on back of form.

Were latitude and longitude in Section A provided by a licensed land surveyor? ☐ Yes ☐ No

EDWARD J. MAYHEW LICENSED SEAL HERE 921 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

Certifier's Name: EDWARD J. MAYHEW License Number: 921
Title: OWNER Company Name:
Address: P.O. Box 313 City: ROMNEY State: WV ZIP Code: 26757
Signature: Edward J Mayhew Date: 12-8-09 Telephone: 304 822-3513

IMPORTANT: In these spaces, copy the corresponding information from Section A.	For Insurance Company Use:
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. LOT 48 FRENCH'S NECK WEST	Policy Number:
City NEAR GREENSPRING State WV ZIP Code	Company NAIC Number:

SECTION D - SURVEYOR, ENGINEER, OR ARCHITECT CERTIFICATION (CONTINUED)

Copy both sides of this Elevation Certificate for (1) community official, (2) insurance agent/company, and (3) building owner.

Comments

Signature Date

☐ Check here if attachments

SECTION E - BUILDING ELEVATION INFORMATION (SURVEY NOT REQUIRED) FOR ZONE AO AND ZONE A (WITHOUT BFE)

For Zones AO and A (without BFE), complete items E1-E5. If the Certificate is intended to support a LOMA or LOMR-F request, complete Sections A, B, and C. For Items E1-E4, use natural grade, if available. Check the measurement used. In Puerto Rico only, enter meters.

E1. Provide elevation information for the following and check the appropriate boxes to show whether the elevation is above or below the highest adjacent grade (HAG) and the lowest adjacent grade (LAG).
a) Top of bottom floor (including basement, crawlspace, or enclosure) is _____. ____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is _____. ____ ☐ feet ☐ meters ☐ above or ☐ below the LAG.

E2. For Building Diagrams 6-9 with permanent flood openings provided in Section A Items 8 and/or 9 (see pages 8-9 of Instructions), the next higher floor (elevation C2.b in the diagrams) of the building is _____. ____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E3. Attached garage (top of slab) is _____. ____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E4. Top of platform of machinery and/or equipment servicing the building is _____. ____ ☐ feet ☐ meters ☐ above or ☐ below the HAG.

E5. Zone AO only: If no flood depth number is available, is the top of the bottom floor elevated in accordance with the community's floodplain management ordinance? ☐ Yes ☐ No ☐ Unknown. The local official must certify this information in Section G.

SECTION F - PROPERTY OWNER (OR OWNER'S REPRESENTATIVE) CERTIFICATION

The property owner or owner's authorized representative who completes Sections A, B, and E for Zone A (without a FEMA-issued or community-issued BFE) or Zone AO must sign here. *The statements in Sections A, B, and E are correct to the best of my knowledge.*

Property Owner's or Owner's Authorized Representative's Name

Address City State ZIP Code

Signature Date Telephone

Comments

☐ Check here if attachments

SECTION G - COMMUNITY INFORMATION (OPTIONAL)

The local official who is authorized by law or ordinance to administer the community's floodplain management ordinance can complete Sections A, B, C (or E), and G of this Elevation Certificate. Complete the applicable item(s) and sign below. Check the measurement used in Items G8 and G9.

G1. ☐ The information in Section C was taken from other documentation that has been signed and sealed by a licensed surveyor, engineer, or architect who is authorized by law to certify elevation information. (Indicate the source and date of the elevation data in the Comments area below.)

G2. ☐ A community official completed Section E for a building located in Zone A (without a FEMA-issued or community-issued BFE) or Zone AO.

G3. ☐ The following information (Items G4-G9) is provided for community floodplain management purposes.

G4. Permit Number	G5. Date Permit Issued	G6. Date Certificate Of Compliance/Occupancy Issued

G7. This permit has been issued for: ☐ New Construction ☐ Substantial Improvement

G8. Elevation of as-built lowest floor (including basement) of the building _____. ____ ☐ feet ☐ meters (PR) Datum_____

G9. BFE or (in Zone AO) depth of flooding at the building site _____. ____ ☐ feet ☐ meters (PR) Datum_____

G10. Community's design flood elevation _____. ____ ☐ feet ☐ meters (PR) Datum_____

Local Official's Name Title

Community Name Telephone

Signature Date

Comments

☐ Check here if attachments

Building Photographs

See Instructions for Item A6.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.			For Insurance Company Use Policy Number
City	State	ZIP Code	Company NAIC Number

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least two building photographs below according to the instructions for Item A6. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." If submitting more photographs than will fit on this page, use the Continuation Page on the reverse.

DIAGRAM 3

All split-level buildings that are slab-on-grade, either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (excluding garage) is at or above ground level (grade) on at least one side.*

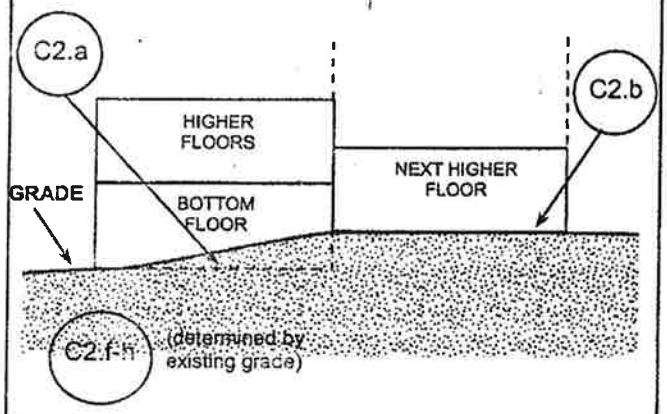


DIAGRAM 4

All split-level buildings (other than slab-on-grade), either detached or row type (e.g., townhouses); with or without attached garage.

Distinguishing Feature – The bottom floor (basement or underground garage) is below ground level (grade) on all sides.*

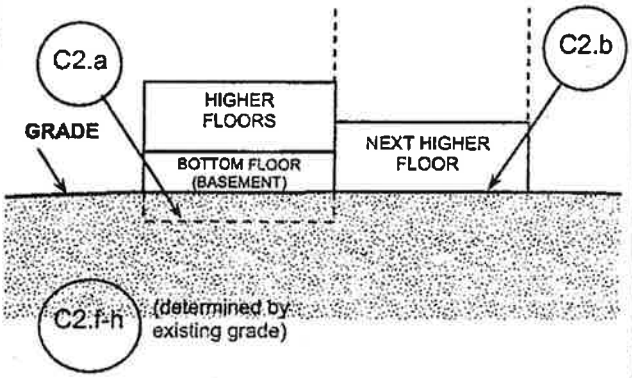


DIAGRAM 5

All buildings elevated on piers, posts, piles, columns, or parallel shear walls. No obstructions below the elevated floor.

Distinguishing Feature – For all zones, the area below the elevated floor is open, with no obstruction to flow of flood waters (open lattice work and/or readily removable insect screening is permissible).

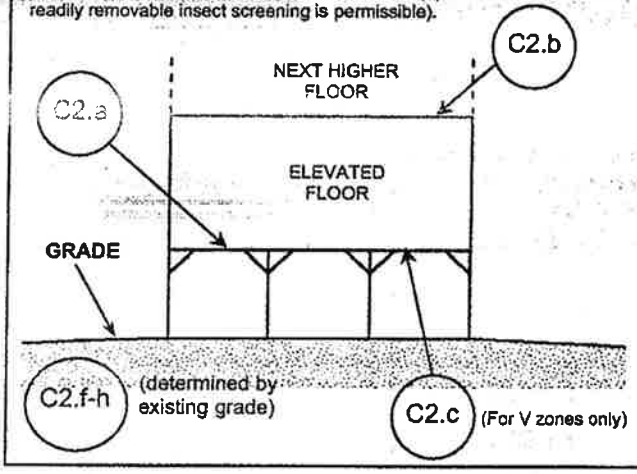
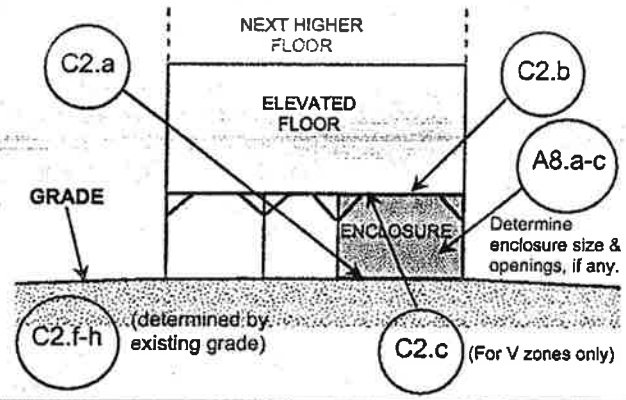


DIAGRAM 6

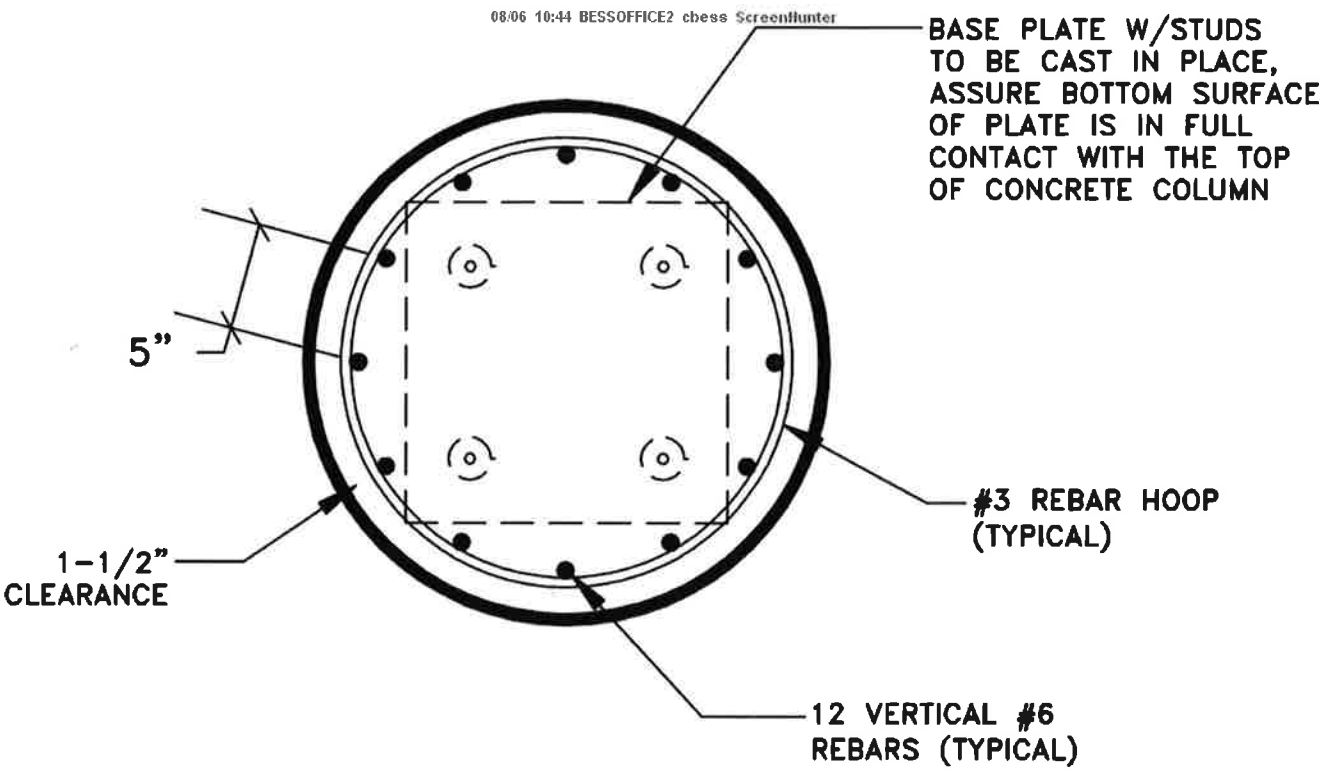
All buildings elevated on piers, posts, piles, columns, or parallel shear walls with full or partial enclosure below the elevated floor.

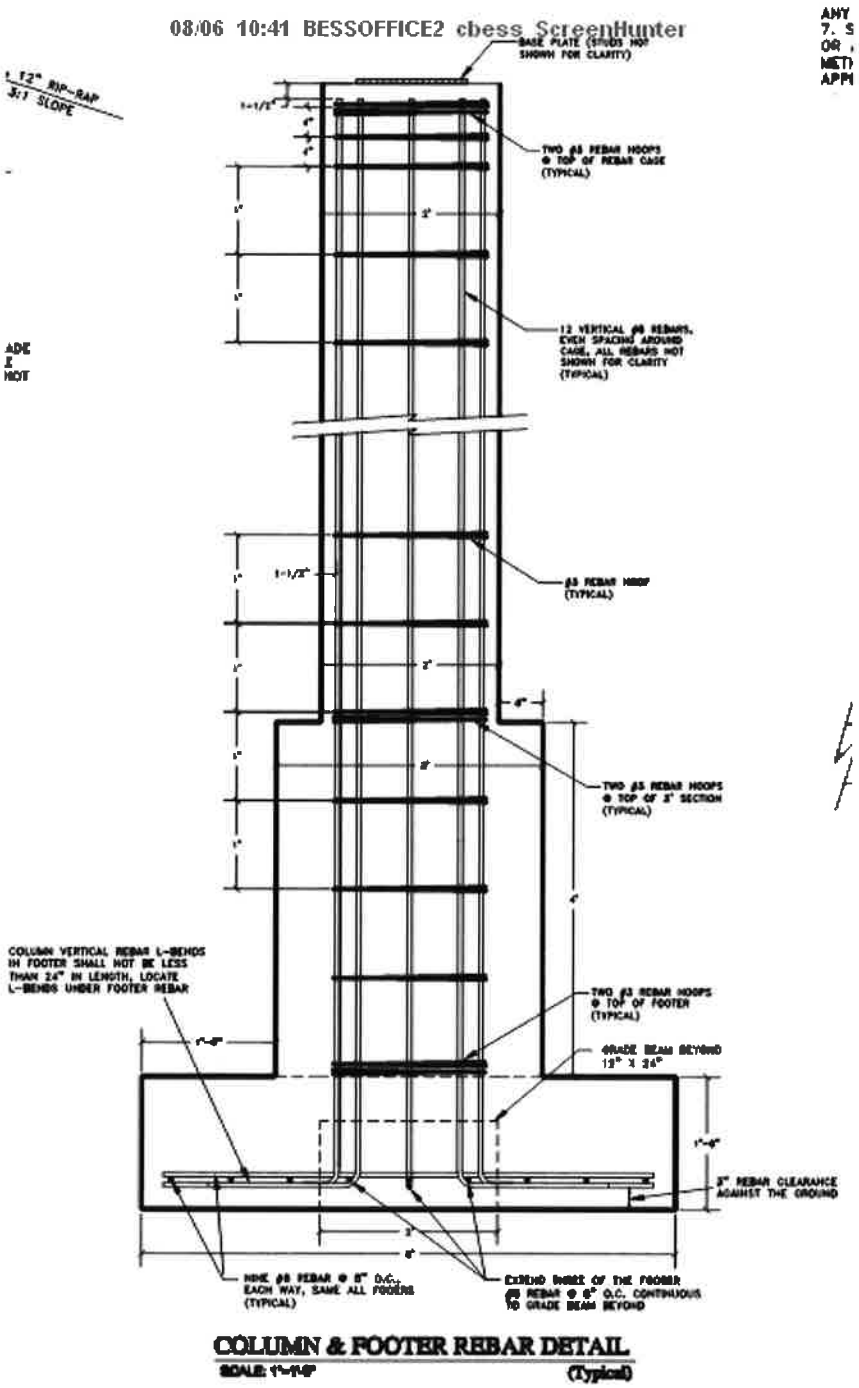
Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about enclosure size and openings in Section A – Property Information.



* A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.

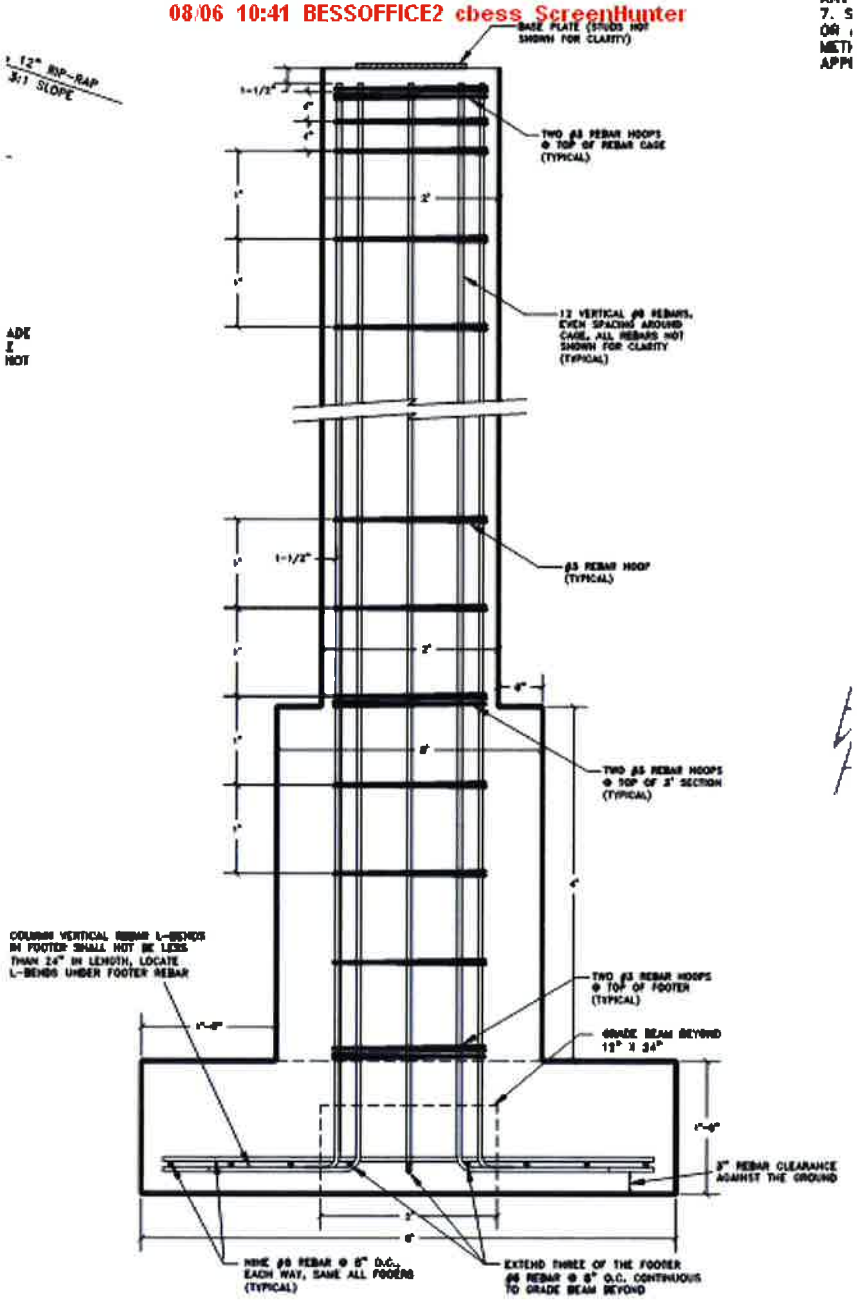
** An "opening" is a permanent opening that allows for the free passage of water automatically in both directions without human intervention. Under the NFIP, a minimum of two openings is required for enclosures or crawlspaces. The openings shall provide a total net area of not less than one square inch for every square foot of area enclosed, excluding any bars, louvers, or other covers of the opening. Alternatively, an Individual Engineered Flood Openings Certification or an Evaluation Report issued by the International Code Council Evaluation Service (ICC ES) must be submitted to document that the design of the openings will allow for the automatic equalization of hydrostatic flood forces on exterior walls. A window, a door, or a garage door is not considered an opening; openings may be installed in doors. Openings shall be on at least two sides of the enclosed area. If a building has more than one enclosed area, each area must have openings to allow floodwater to directly enter. The bottom of the openings must be no higher than one foot above the higher of the exterior or interior grade or floor immediately below the opening. For more guidance on openings, see NFIP Technical Bulletin 1.


08/06 10:44 BESSOFFICE2 chess ScreenHunter
BASE PLATE W/STUDS TO BE CAST IN PLACE, ASSURE BOTTOM SURFACE OF PLATE IS IN FULL CONTACT WITH THE TOP OF CONCRETE COLUMN
5"
#3 REBAR HOOP (TYPICAL)
1-1/2" CLEARANCE
12 VERTICAL #6 REBARS (TYPICAL)



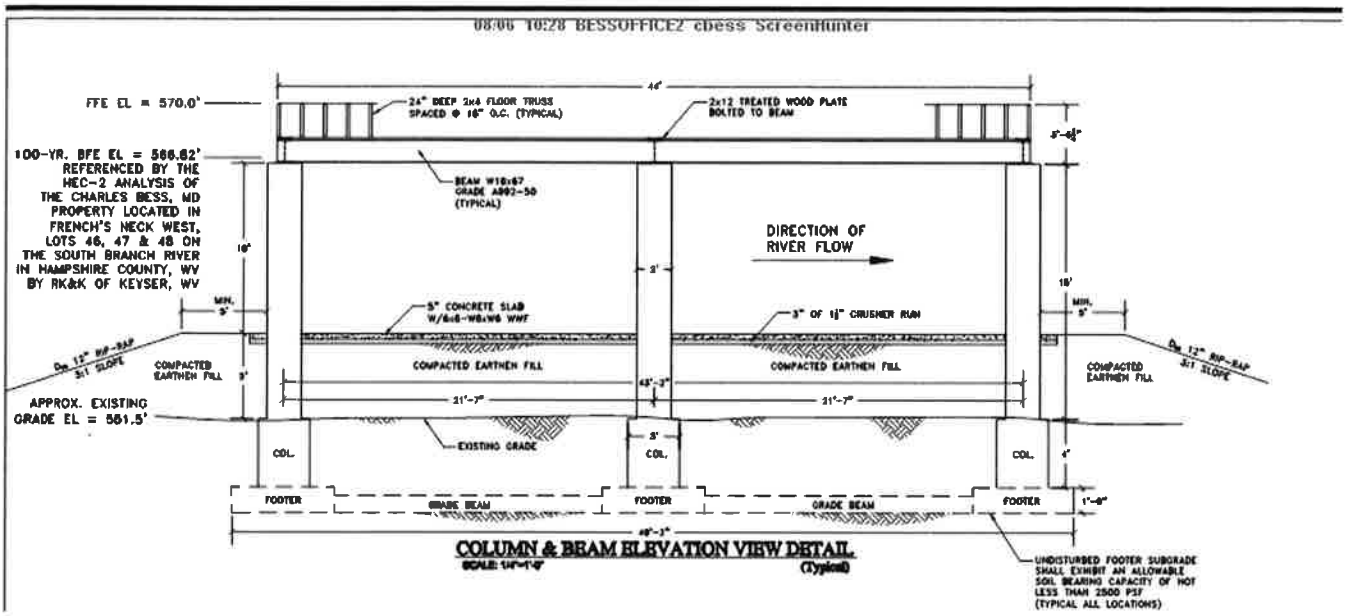
COLUMN & FOOTER REBAR DETAIL

SCALE: 1"=1'-0" (Typical)

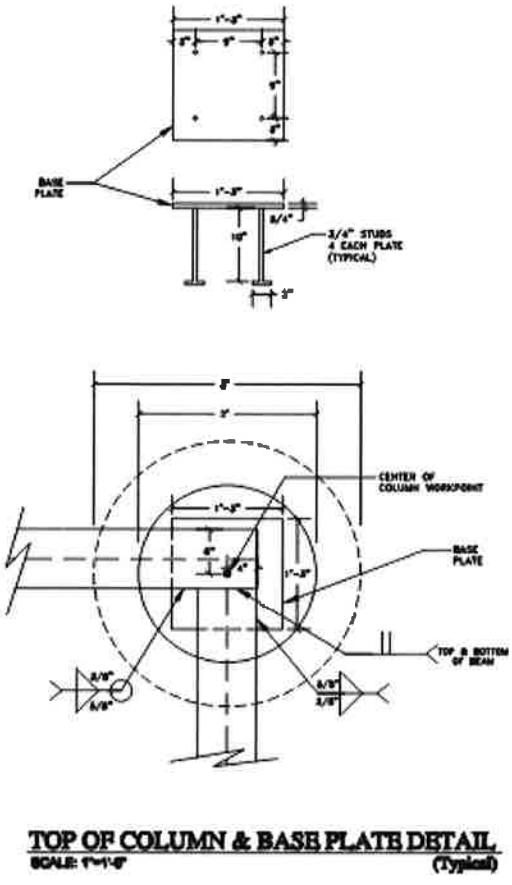


COLUMN & FOOTER REBAR DETAIL

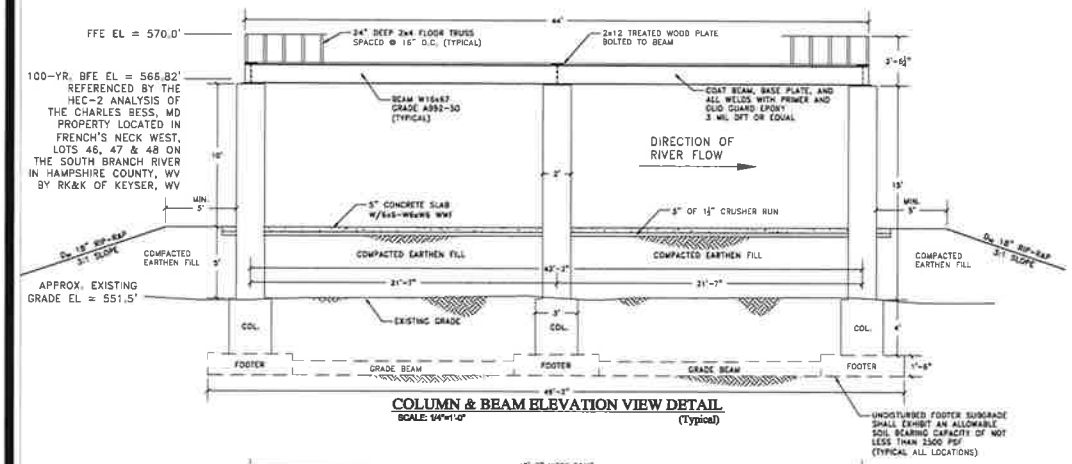
SCALE: 1"=1'-0" (Typical)


08/06 10:28 BESSOFFICE2 cbess ScreenHunter
FFE EL = 570.0'
100-YR. BFE EL = 566.62' REFERENCED BY THE HEC-2 ANALYSIS OF THE CHARLES BESS, MD PROPERTY LOCATED IN FRENCH'S NECK WEST, LOTS 46, 47 & 48 ON THE SOUTH BRANCH RIVER IN HAMPSHIRE COUNTY, WV BY RK&K OF KEYSER, WV
APPROX. EXISTING GRADE EL = 551.5'
24" DEEP 2x6 FLOOR TRUSS SPACED @ 16" O.C. (TYPICAL)
2x12 TREATED WOOD PLATE BOLTED TO BEAM
BEAM W18x67 GRADE A992-50 (TYPICAL)
DIRECTION OF RIVER FLOW
5" CONCRETE SLAB W/6x6-W6xW6 WWF
3" OF 1½" CRUSHER RUN
COMPACTED EARTHEN FILL
EXISTING GRADE
COL.
FOOTER
GRADE BEAM
UNDISTURBED FOOTER SUBGRADE SHALL EXHIBIT AN ALLOWABLE SOIL BEARING CAPACITY OF NOT LESS THAN 2500 PSF (TYPICAL ALL LOCATIONS)
COLUMN & BEAM ELEVATION VIEW DETAIL
(Typical)

08/06 10:38 BESSOFFICE2 cbess ScreenHunter

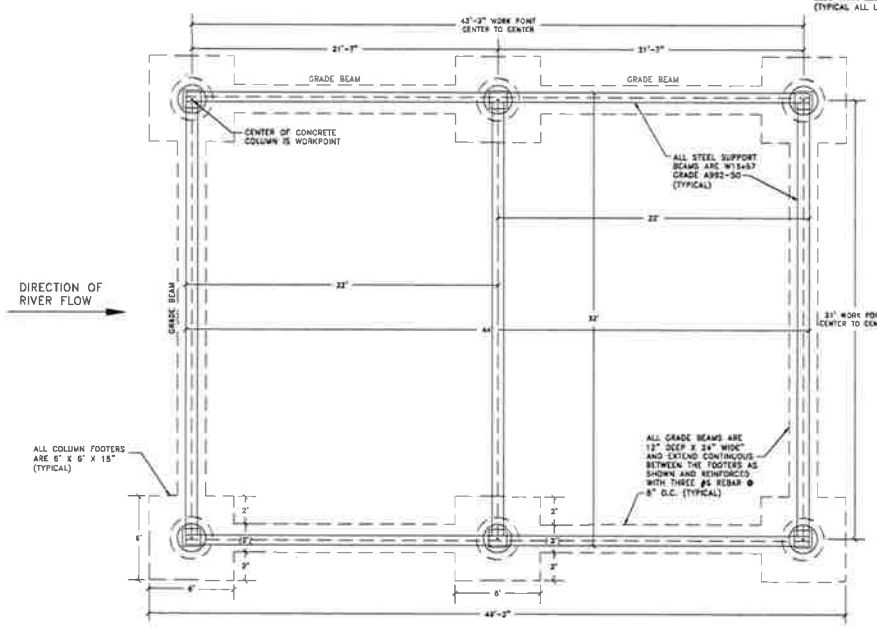


TOP OF COLUMN & BASE PLATE DETAIL
SCALE: 1"=1'-0" (Typical)



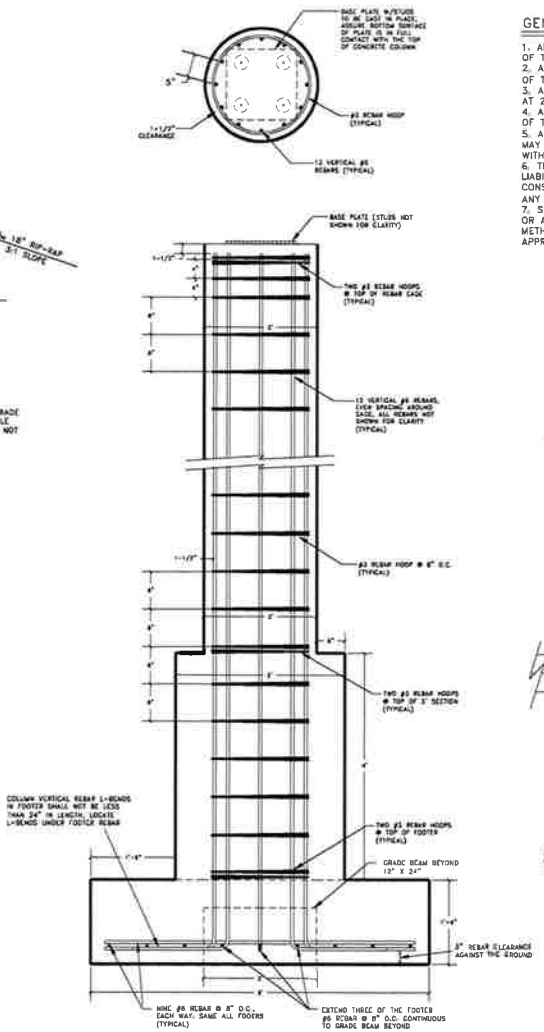
COLUMN & BEAM ELEVATION VIEW DETAIL

SCALE: 1/4"=1'-0" (Typical)



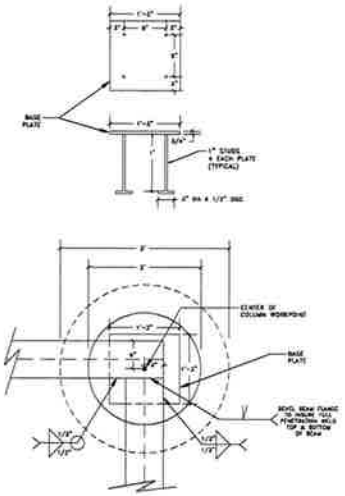
COLUMN & BEAM PLAN VIEW DETAIL

SCALE: 1/4"=1'-0" (Typical)



COLUMN & FOOTER REBAR DETAIL

SCALE: 1"=1'-0" (Typical)



TOP OF COLUMN & BASE PLATE DETAIL

SCALE: 1"=1'-0" (Typical)

GENERAL NOTES:

1. ALL CONSTRUCTION WORK SHALL COMPLY WITH THE LATEST REVISION OF THE 2006 EDITION OF THE INTERNATIONAL BUILDING CODE.
2. ALL CONCRETE WORK SHALL CONFORM WITH THE LATEST REVISION OF THE CONCRETE CODE (ACI-318).
3. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 4,000 PSI AT 28-DAYS, WITH A MAXIMUM SLUMP OF 4-INCHES WHEN CAST.
4. ALL STRUCTURAL STEEL WORK SHALL COMPLY WITH LATEST REVISION OF THE AISC 9th EDITION.
5. A UTILITY CONDUIT OR PIPE CHASE, NOT TO EXCEED 4" IN DIAMETER, MAY BE CONSTRUCTED AT THE CENTER OF THE CONCRETE COLUMNS, WITHOUT ADVERSELY IMPACTING STRUCTURAL INTEGRITY OF THE SUPPORTS.
6. THE ENGINEER SHALL BE HELD SAFE AND HARMLESS FROM ANY AND ALL LIABILITY DUE TO PROBLEMS ASSOCIATED WITH THE INSTALLATION AND CONSTRUCTION OF THE FOUNDATION AND BUILDING; AND IN GENERAL, INCLUDING ANY TYPE OF MATERIAL FAILURE AND/OR INADEQUATE SOIL CONDITIONS.
7. SHOULD CONSTRUCTION ACTIVITIES ENCOUNTER DIFFERING SITE CONDITIONS OR A SITUATION DEVELOPS THAT REQUIRES MODIFICATION TO THE DESIGN OR METHOD OF CONSTRUCTION, THE ENGINEER SHALL BE CONTACTED FOR APPROVAL, PRIOR TO IMPLEMENTING SUCH CHANGES.

REVISIONS

No.	DATE	COMMENTS
1	8/24/08	Original Drawing

GENERAL FOUNDATION DESIGN & DETAILS

DR. CHARLES BESS FOUNDATION PLAN
French's Neck Subdivision, Hampshire County, West Virginia
FLOOD PROOF FOUNDATION

ENGINEER: Geary Associates
Engineering – Construction Management – Surveying
Mark C. Geary PE, PS
106 North Main Street
Petersburg, WV 26847
BUS: 304-257-2022
FAX: 304-257-2023
E-mail: mgeary@frontiernet.net

SCALE: As Noted

DRAWING NO. 1