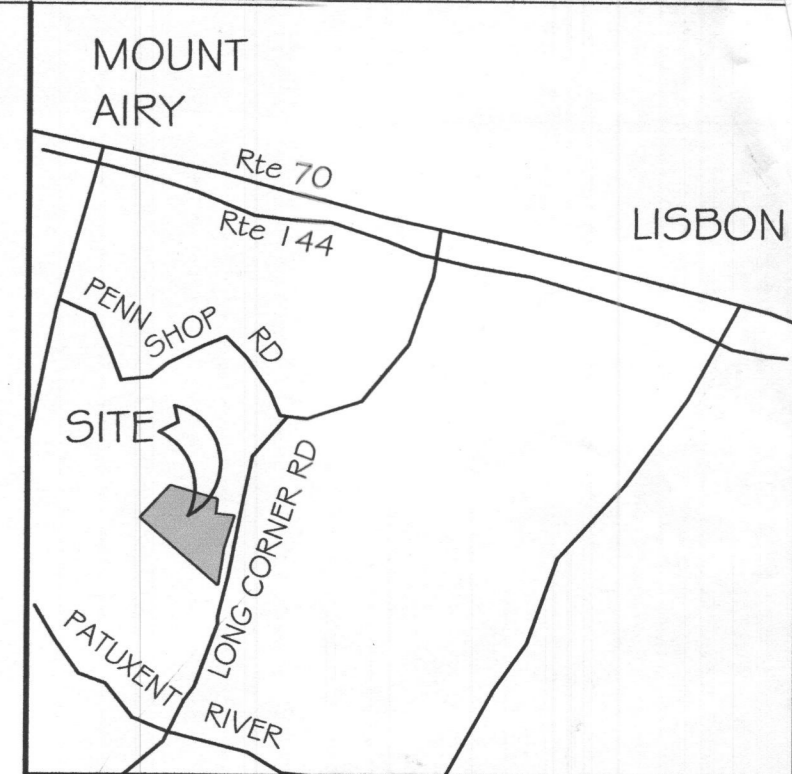




**LEGEND**

- EXISTING 2' CONTOURS
- EXISTING 10' CONTOURS
- EXISTING TREE LINE
- SOIL LINES AND TYPES
- DENOTES PROPOSED WELL
- DENOTES FAILED PERC
- DENOTES PASSED PERC
- DENOTES PROPOSED HOUSE
- ▨ DENOTES 15% - 24.9% SLOPES
- ▩ DENOTES 25% AND GREATER SLOPE
- DENOTES 1500 sq.ft. ALTERNATE WELL SITE

MARYLAND STATE PLANE DATUM  
NAD27  
SCALE: 1"=60'



**VICINITY MAP**  
SCALE: 1" = 2000'

**GENERAL NOTES:**

1. THIS AREA DESIGNATES A PRIVATE SEWERAGE EASEMENT OF AT LEAST 10,000 SQUARE FEET AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWERAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWERAGE IS AVAILABLE. THESE EASEMENTS SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWERAGE EASEMENT. RECORDATION OF A MODIFIED SEWERAGE EASEMENT SHALL NOT BE NECESSARY.
2. ADJUSTMENTS TO SEPTIC EASEMENT AREA IS NOT PERMITTED WITHOUT ADDITIONAL TESTING.
3. THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
4. EXISTING WELLS AND/OR SEWERAGE EASEMENTS WITHIN 100 FEET OF THE PROPERTY HAVE BEEN SHOWN FROM THE BEST AVAILABLE INFORMATION.
5. ALL HOUSE SITES SHOWN COMPLY WITH MINIMUM BUILDING RESTRICTION REGULATIONS.
6. TOPOGRAPHY SHOWN IS FIELD RUN BY FISHER, COLLINS AND CARTER, INC.
7. BOUNDARY OUTLINE BASED ON AVAILABLE DEED OF RECORD WITHOUT THE BENEFIT OF A FIELD SURVEY AT THIS TIME.
8. ANY CHANGES TO A PRIVATE SEWERAGE EASEMENT SHALL REQUIRE A REVISED PERC CERTIFICATION PLAN
9. PLAT REFERENCE 18575.

**SOILS LEGEND**

SOIL	NAME	CLASS
GIB2	Glennville loam, 3 to 8 percent slopes, moderately eroded	B
GnB2	Glennville silt loam, 3 to 8 percent slopes, moderately eroded	C
MJC3	Mt. Airy channery loam, 8 to 15 percent slopes, severely eroded	A
MJD2	Mt. Airy channery loam, 15 to 25 percent slopes, moderately eroded	A
MJC2	Mt. Airy channery loam, 8 to 15 percent slopes, moderately eroded	A

- NOTES:**
- \* Hydric soils and/or contains hydric inclusions
  - \*\* May contain hydric inclusions
  - † Generally only within 100-year floodplain areas

N/F  
WENDY TAKACS  
L. 5148 F. 647

N/F  
BRIAN AND JANICE ROGERS  
L. 986 F. 507  
884,085 S.F. or 20.2958 Ac.  
19.4228 Ac. (EXCLUDING FUTURE ROAD DEDICATION  
(40' FROM CENTERLINE))

WILETS PROPERTY  
PLAT No.'s 13940-13943  
PRESERVATION PARCEL A

PRESERVATION PARCEL B

BENJAMIN F. & THERESA N. BOHRER  
L. 268 F. 03  
5.57 Ac.

**PERC CERTIFICATION**  
I certify that the locations shown hereon are based on field locations done under my direct supervision and are correct to the best of my professional knowledge and belief.  
*Terrell A. Fisher*  
Signature of Professional Land Surveyor  
Terrell A. Fisher, Professional Land Surveyor No. 10692  
Date: 4/24/07


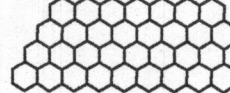
APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS,  
HOWARD COUNTY HEALTH DEPARTMENT.  
*Robert J. Weller*  
COUNTY HEALTH OFFICER at 080  
Date: 5/1/07

**OWNER/DEVELOPER**  
EVELYN SHUKAT  
ESK DE WIDT  
P.O. BOX 1067  
MT. AIRY, MD 21771

**PERC CERTIFICATION PLAT  
FEAGA II PROPERTY**

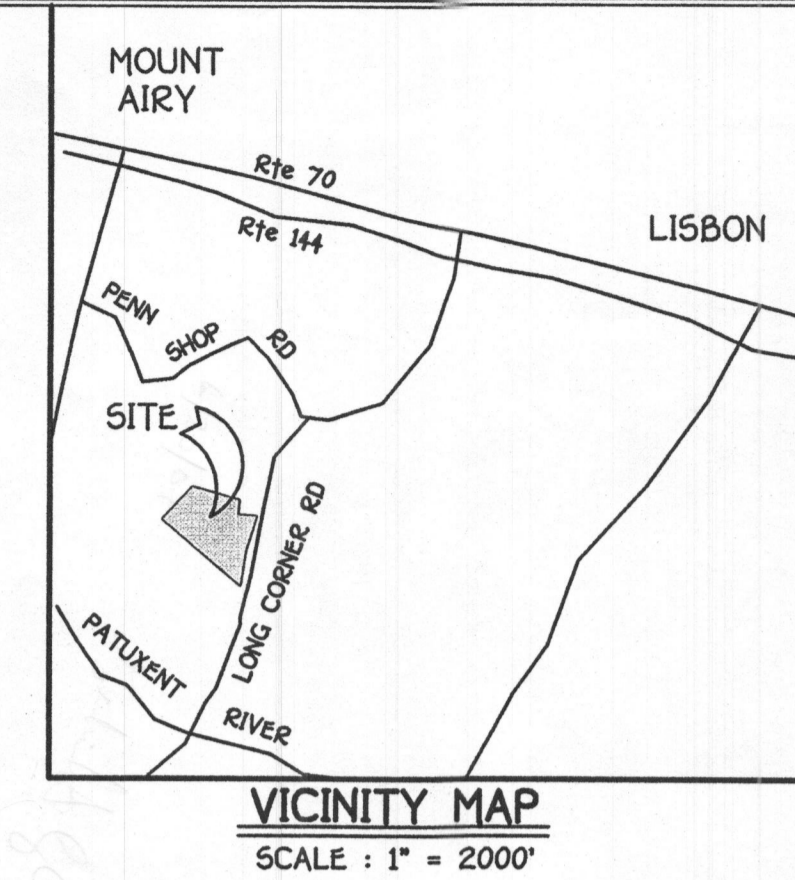
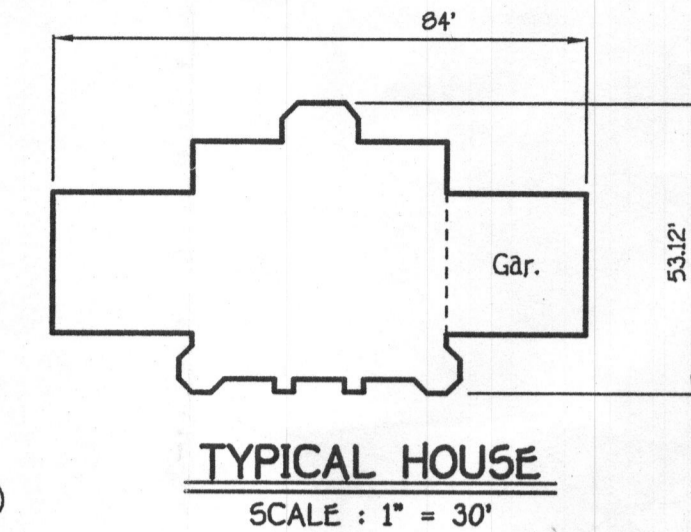
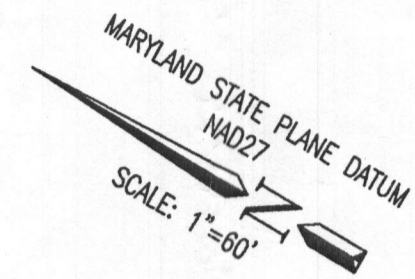
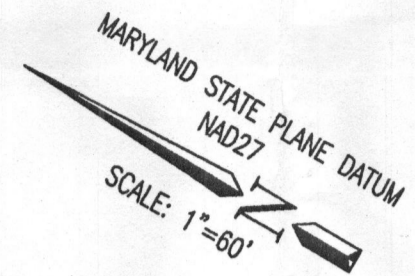
TAX MAP #6 PARCEL: 56  
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 60' DATE: April 10, 2007

**LEGEND**

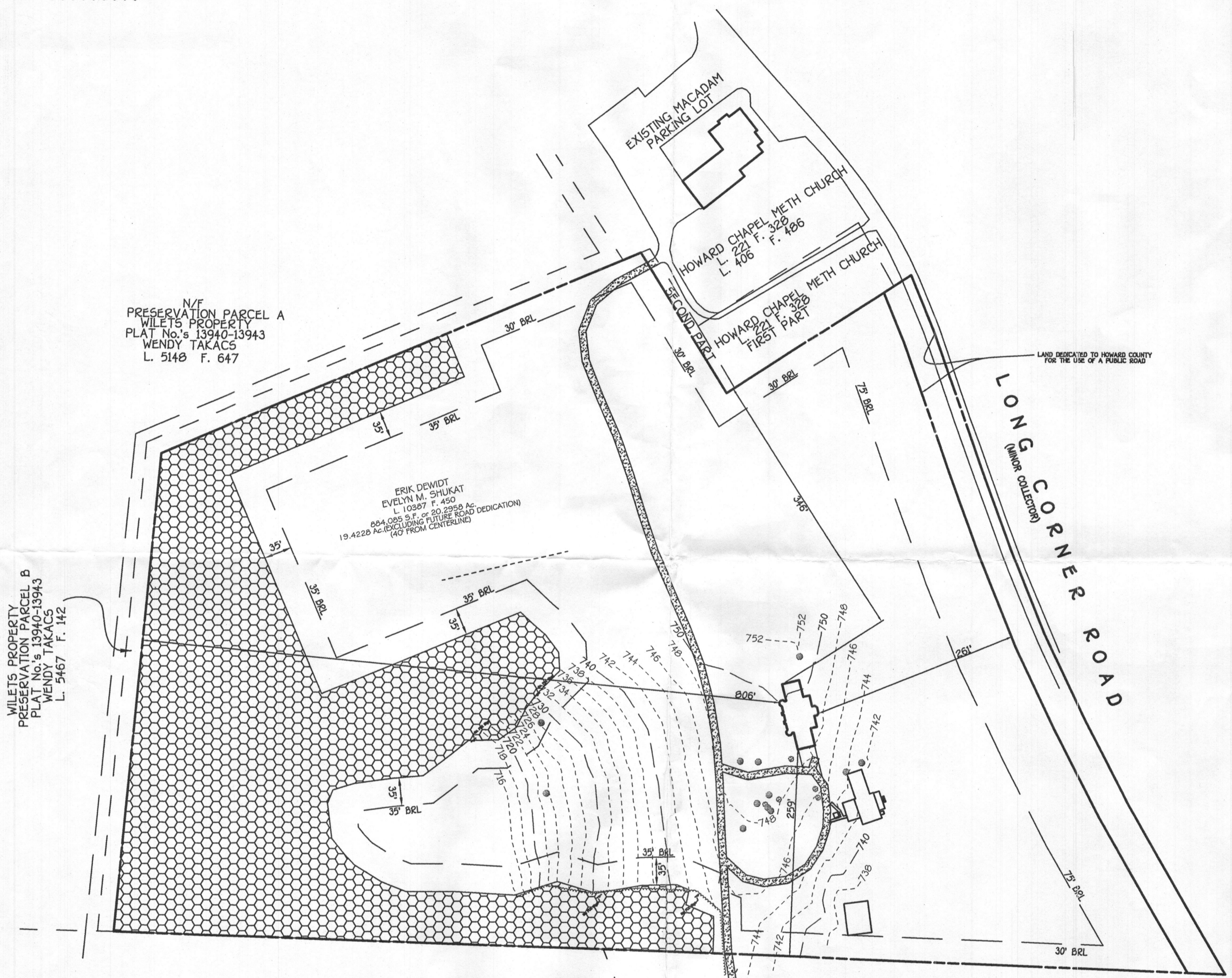
- EXISTING 2' CONTOURS
- PROPOSED CONTOURS
- EXISTING TREE LINE
-  EXISTING SPECIMAN TREES
- +748.50 SPOT ELEVATIONS
- LIMIT OF DISTURBANCE
-  FOREST CONSERVATION EASEMENT

**GENERAL NOTES:**

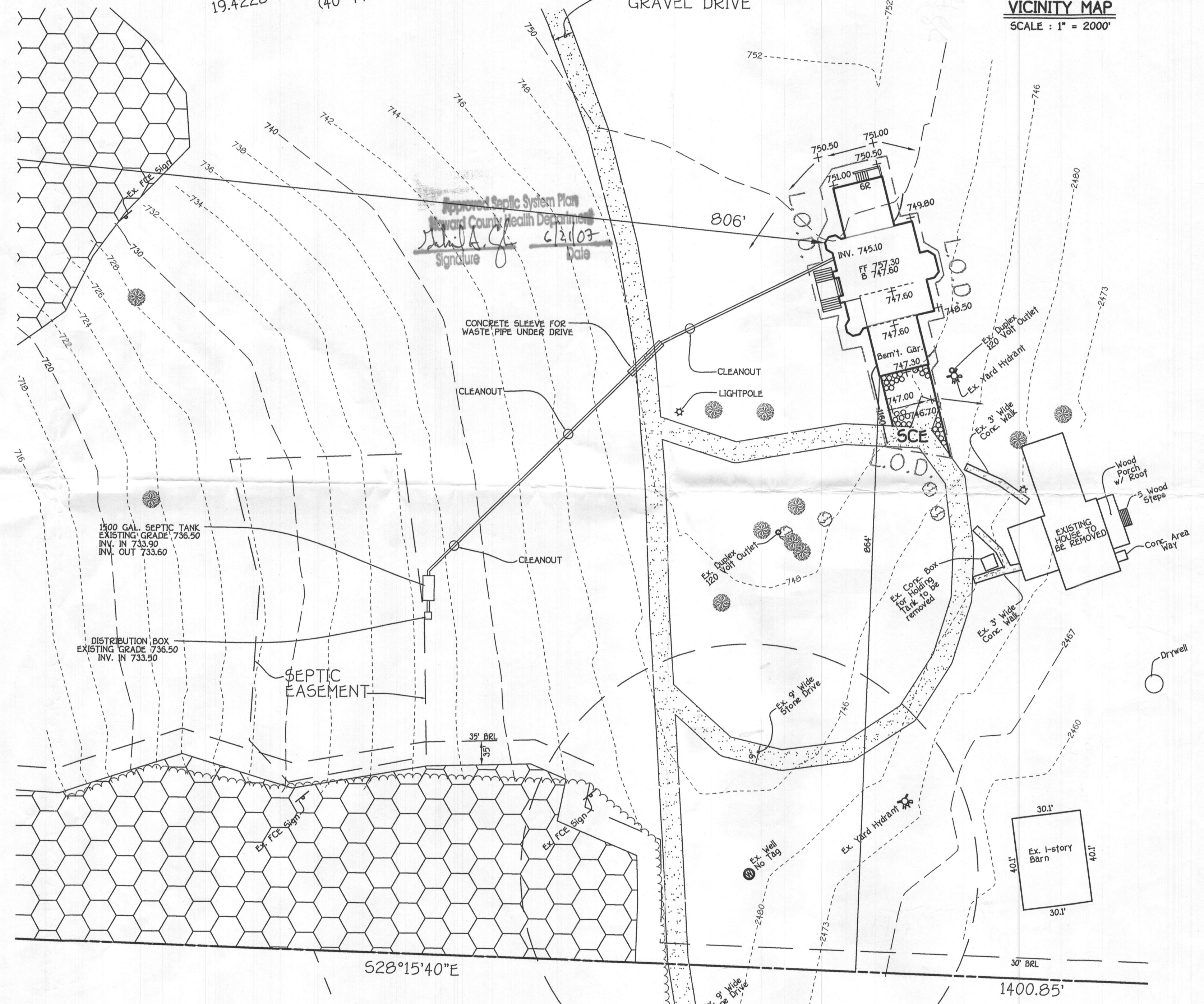
1. DEED REFERENCE: LIBER 10387 FOLIO 450.
2. SUBJECT PROPERTY IS ZONED: RC-DEO.
3. TOTAL DISTURBED AREA: 4792 SQ. FT.
4. THE EXISTING TOPOGRAPHY WAS FIELD RUN BY FISHER, COLLINS AND CARTER, INC.



**ERIK DEWIDT  
EVELYN M. SHUKAT  
L. 10387 F. 450  
884,085 S.F. or 20.2958 Ac.  
19.4228 Ac. (EXCLUDING FUTURE ROAD DEDICATION)  
(40' FROM CENTERLINE)**



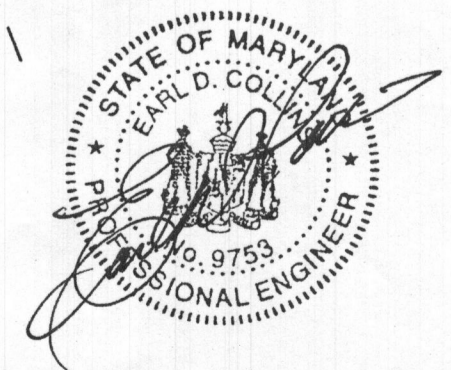
**PLAN**  
SCALE: 1" = 100'



**PLAN**  
SCALE: 1" = 30'

**OWNER/DEVELOPER**

EVELYN SHUKAT  
ERIK DE WIDT  
P.O. BOX 1087  
MT. AIRY, MD 21771



**PLOT PLAN  
FEAGA II PROPERTY**  
TAX MAP NO. 6 GRID 21 PARCEL: 56  
FOURTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND  
SCALE: 1" = 100'  
APRIL 10, 2007

TABLE (FOOTING) 1 (1)

MAXIMUM WALL HEIGHT (FEET)	MAXIMUM UNBALANCED BACKFILL HEIGHT (FEET)	PLAIN CONCRETE (MINIMUM NOMINAL WALL THICKNESS (INCHES))			PLAIN MASONRY (MINIMUM NOMINAL WALL THICKNESS (INCHES))		
		CONC. STRENGTH (PSI)	MIN. WALL THICKNESS (INCHES)	MIN. SPACING (INCHES)	MIN. WALL THICKNESS (INCHES)	MIN. SPACING (INCHES)	MIN. SPACING (INCHES)
5	4	3000	8	10	8	10	
6	4	3000	8	10	8	10	
7	4	3000	8	10	8	10	
8	4	3000	8	10	8	10	
9	4	3000	8	10	8	10	

For 10: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound per square foot = 47.88 Pa.  
 a. Member shall be Type M or S and masonry shall be laid in running bond.  
 b. Alternative reinforcing steel and spacing having an equivalent cross-sectional area of reinforcement per linear foot of wall shall be permitted provided the spacing of the reinforcement does not exceed 72 inches.  
 c. Vertical reinforcement shall be Grade 60 minimum. The distance from the face of the wall to the center of vertical reinforcement shall be at least 3 inches.  
 d. Soil classes are in accordance with the Unified Soil Classification System. Refer to Table B-403.1.  
 e. Lateral earth pressure shall be assumed to be distributed in height in the center and exterior finish ground levels. When an exterior concrete slab is provided, the unbalanced backfill height shall be measured from the exterior finish ground level to the top of the interior concrete slab.

TABLE (FOOTING) 1 (2)

MAXIMUM WALL HEIGHT (FEET)	MAXIMUM UNBALANCED BACKFILL HEIGHT (FEET)	REINFORCED CONCRETE AND MASONRY FOUNDATION WALLS		
		MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING FOR 12 INCH NOMINAL WALL THICKNESS	MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING FOR 16 INCH NOMINAL WALL THICKNESS	MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING FOR 20 INCH NOMINAL WALL THICKNESS
6	5	#4 @ 24" o.c.	#4 @ 24" o.c.	#4 @ 24" o.c.
7	6	#4 @ 24" o.c.	#4 @ 24" o.c.	#4 @ 24" o.c.
8	7	#4 @ 24" o.c.	#4 @ 24" o.c.	#4 @ 24" o.c.
9	8	#4 @ 24" o.c.	#4 @ 24" o.c.	#4 @ 24" o.c.

For 10: 1 inch = 25.4 mm, 1 foot = 304.8 mm.  
 a. Member shall be Type M or S and masonry shall be laid in running bond.  
 b. Alternative reinforcing steel and spacing having an equivalent cross-sectional area of reinforcement per linear foot of wall shall be permitted provided the spacing of the reinforcement does not exceed 72 inches.  
 c. Vertical reinforcement shall be Grade 60 minimum. The distance from the face of the wall to the center of vertical reinforcement shall be at least 3 inches.  
 d. Soil classes are in accordance with the Unified Soil Classification System. Refer to Table B-403.1.  
 e. Lateral earth pressure shall be assumed to be distributed in height in the center and exterior finish ground levels. When an exterior concrete slab is provided, the unbalanced backfill height shall be measured from the exterior finish ground level to the top of the interior concrete slab.

TABLE (FOOTING) 1 (3)

MAXIMUM WALL HEIGHT (FEET)	MAXIMUM UNBALANCED BACKFILL HEIGHT (FEET)	REINFORCED CONCRETE AND MASONRY FOUNDATION WALLS		
		MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING FOR 12 INCH NOMINAL WALL THICKNESS	MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING FOR 16 INCH NOMINAL WALL THICKNESS	MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING FOR 20 INCH NOMINAL WALL THICKNESS
7	6	#4 @ 24" o.c.	#4 @ 24" o.c.	#4 @ 24" o.c.
8	7	#4 @ 24" o.c.	#4 @ 24" o.c.	#4 @ 24" o.c.
9	8	#4 @ 24" o.c.	#4 @ 24" o.c.	#4 @ 24" o.c.

For 10: 1 inch = 25.4 mm, 1 foot = 304.8 mm.  
 a. Member shall be Type M or S and masonry shall be laid in running bond.  
 b. Alternative reinforcing steel and spacing having an equivalent cross-sectional area of reinforcement per linear foot of wall shall be permitted provided the spacing of the reinforcement does not exceed 72 inches.  
 c. Vertical reinforcement shall be Grade 60 minimum. The distance from the face of the wall to the center of vertical reinforcement shall be at least 3 inches.  
 d. Soil classes are in accordance with the Unified Soil Classification System. Refer to Table B-403.1.  
 e. Lateral earth pressure shall be assumed to be distributed in height in the center and exterior finish ground levels. When an exterior concrete slab is provided, the unbalanced backfill height shall be measured from the exterior finish ground level to the top of the interior concrete slab.

TABLE (FOOTING) 1 (4)

MAXIMUM WALL HEIGHT (FEET)	MAXIMUM UNBALANCED BACKFILL HEIGHT (FEET)	REINFORCED CONCRETE AND MASONRY FOUNDATION WALLS		
		MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING FOR 12 INCH NOMINAL WALL THICKNESS	MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING FOR 16 INCH NOMINAL WALL THICKNESS	MINIMUM VERTICAL REINFORCEMENT SIZE AND SPACING FOR 20 INCH NOMINAL WALL THICKNESS
7	6	#4 @ 24" o.c.	#4 @ 24" o.c.	#4 @ 24" o.c.
8	7	#4 @ 24" o.c.	#4 @ 24" o.c.	#4 @ 24" o.c.
9	8	#4 @ 24" o.c.	#4 @ 24" o.c.	#4 @ 24" o.c.

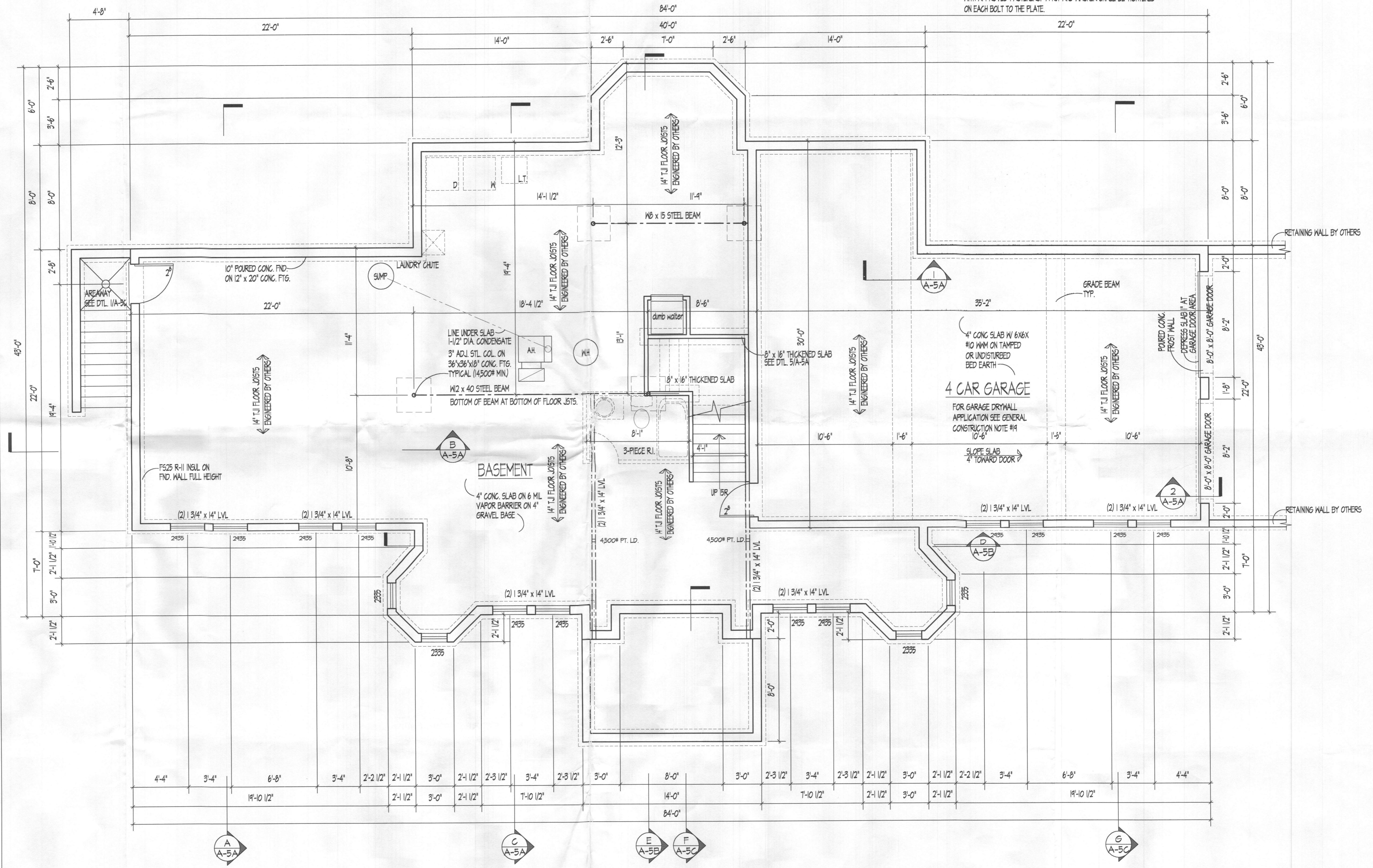
For 10: 1 inch = 25.4 mm, 1 foot = 304.8 mm.  
 a. Member shall be Type M or S and masonry shall be laid in running bond.  
 b. Alternative reinforcing steel and spacing having an equivalent cross-sectional area of reinforcement per linear foot of wall shall be permitted provided the spacing of the reinforcement does not exceed 72 inches.  
 c. Vertical reinforcement shall be Grade 60 minimum. The distance from the face of the wall to the center of vertical reinforcement shall be at least 3 inches.  
 d. Soil classes are in accordance with the Unified Soil Classification System. Refer to Table B-403.1.  
 e. Lateral earth pressure shall be assumed to be distributed in height in the center and exterior finish ground levels. When an exterior concrete slab is provided, the unbalanced backfill height shall be measured from the exterior finish ground level to the top of the interior concrete slab.

**FOUNDATION PLAN NOTES:**

- UNLESS OTHERWISE NOTED, ALL CONC. FOOTINGS TO HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- PROVIDE TWO #5 REBARS CONTINUOUS AT ALL FOOTINGS AS SHOWN IN THE DRAWINGS.
- ALL INTERIOR CONC. SLABS TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- ALL INTERIOR CONCRETE SLABS 30'-0" OR GREATER IN ANY DIMENSION SHALL BE PROVIDED WITH EXPANSION JOINTS OR 6x6x#10 M/M REINFORCING.
- PROVIDE 4" GRAVEL BED WITH 6 MIL VAPOR BARRIER AT ALL INTERIOR SLABS.
- ALL EXTERIOR CONCRETE SLABS SHALL BE AIR ENTRAINED AND SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3500 PSI.
- PROVIDE A MINIMUM OF 3/8" PORTLAND CEMENT FARGING ON EXTERIOR FOUNDATION WALLS AND ASPHALT WATERPROOFING BELOW.
- PROVIDE 2"x6" PRESSURE TREATED MINIMUM SILL PLATES WITH SILL SEALANTS AT ALL BEARING CONDITIONS SECURED AT MINIMUM 6'-0" O.C. AND AT ALL CORNERS.
- ALL STEEL BEAMS AT MASONRY BEARING CONDITIONS TO HAVE 4"x6" BEAM POCKETS WITH 8" SOLID MASONRY UNDER AND 4" MINIMUM FIRE SEPARATION.
- PROVIDE 4" CONTINUOUS DRAIN TILE ALONG THE OUTSIDE BUILDING PERIMETER AND 4" CONTINUOUS DRAIN TILE INSIDE FOOTING AT EACH UNIT FOUNDATION. BOTH TO DRAIN TO POSITIVE OUTFALL OR SUMP.
- PROVIDE 3/4" CONDENSATE LINE FROM WATER HEATER AND AIR HANDLER UNDER SLAB TO POSITIVE OUTFALL OR SUMP.
- PROVIDE FREEZE-PROOF HOSEBIBS AT FRONT AND REAR.
- FOOTINGS AND STRUCTURAL FOUNDATIONS ARE DESIGNED FOR A MINIMUM SOIL BEARING CAPACITY OF 2800 PSF. IF LESS THAN MINIMUM BEARING CAPACITY EXISTS, IT IS THE CONTRACTORS AND OWNERS RESPONSIBILITY TO NOTIFY THE ARCHITECT AND GEO-TECHNICAL ENGINEERS IMMEDIATELY.
- PROVIDE 1 1/2"x24" RIGID PERIMETER INSULATION AT SLAB CONDITIONS WHEN SLAB IS WITHIN 24" OF FINISHED GRADE.
- PROVIDE 3 1/2" KRAFT FACED R-13 FIBERGLASS BATT INSULATION AT FINISHED FRAME WALLS IN LOWER LEVEL OF PROVIDE 3 1/2" FOIL FACED R-11 FIBERGLASS BATT INSULATION WITH MINIMUM FLAME SPREAD OF 25 AT UNFINISHED EXTERIOR WALLS ON PRESSURE TREATED Furring STRIPS AT MASONRY.

**GENERAL NOTES:**

- CONCRETE FOUNDATION WALLS SHALL BE CONSTRUCTED AS SET FORTH IN IRC 2003 TABLE R404.1(1) OR R404.1(2), TABLES R404.1(3) AND R404.1(4) AND SHALL ALSO COMPLY WITH THE APPLICABLE PROVISIONS OF SECTION R402.2
- ALL FOUNDATION WALL ANCHORAGE SHALL COMPLY TO SECTION R403.1.6 OF THE 2000 IRC. PROVIDE WOOD SILL PLATE ANCHORED TO THE FOUNDATION WALL WITH ANCHOR BOLTS SPACED A MAX. OF 6'-0" O.C. ANCHOR BOLTS SHALL ALSO BE LOCATED WITHIN 1'-0" OF THE ENDS OF EACH PLATE SECTION. BOLTS SHALL BE MIN 1/2" DIA. AND SHALL EXTEND A MIN 1" INTO THE CONCRETE. INTERIOR BEARING WALL SILL PLATES ON SLAB FOUNDATIONS SHALL BE POSITIVELY ANCHORED WITH APPROVED FASTENERS. A NUT AND WASHER SHALL BE TIGHTENED ON EACH BOLT TO THE PLATE.
- ALL FASTENERS AND CONNECTORS USED WITH TREATED LUMBER SHALL MEET ASTM B3, ASTM B65, CLASS B35.



**JB HOME DESIGN, LLC**  
 946 CONCORD COURT  
 BALTIMORE, MARYLAND 21284  
 OFFICE (410) 584-4801  
 FAX (410) 663-4084  
 EMAIL: JON@JBHOMEDESIGN.COM

**home design**

**FOUNDATION PLAN**

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

DATE: \_\_\_\_\_

DRW: \_\_\_\_\_

PROJ. NO.: \_\_\_\_\_

**SHUKAT DE WIDT RESIDENCE**

PROJECT TITLE: \_\_\_\_\_

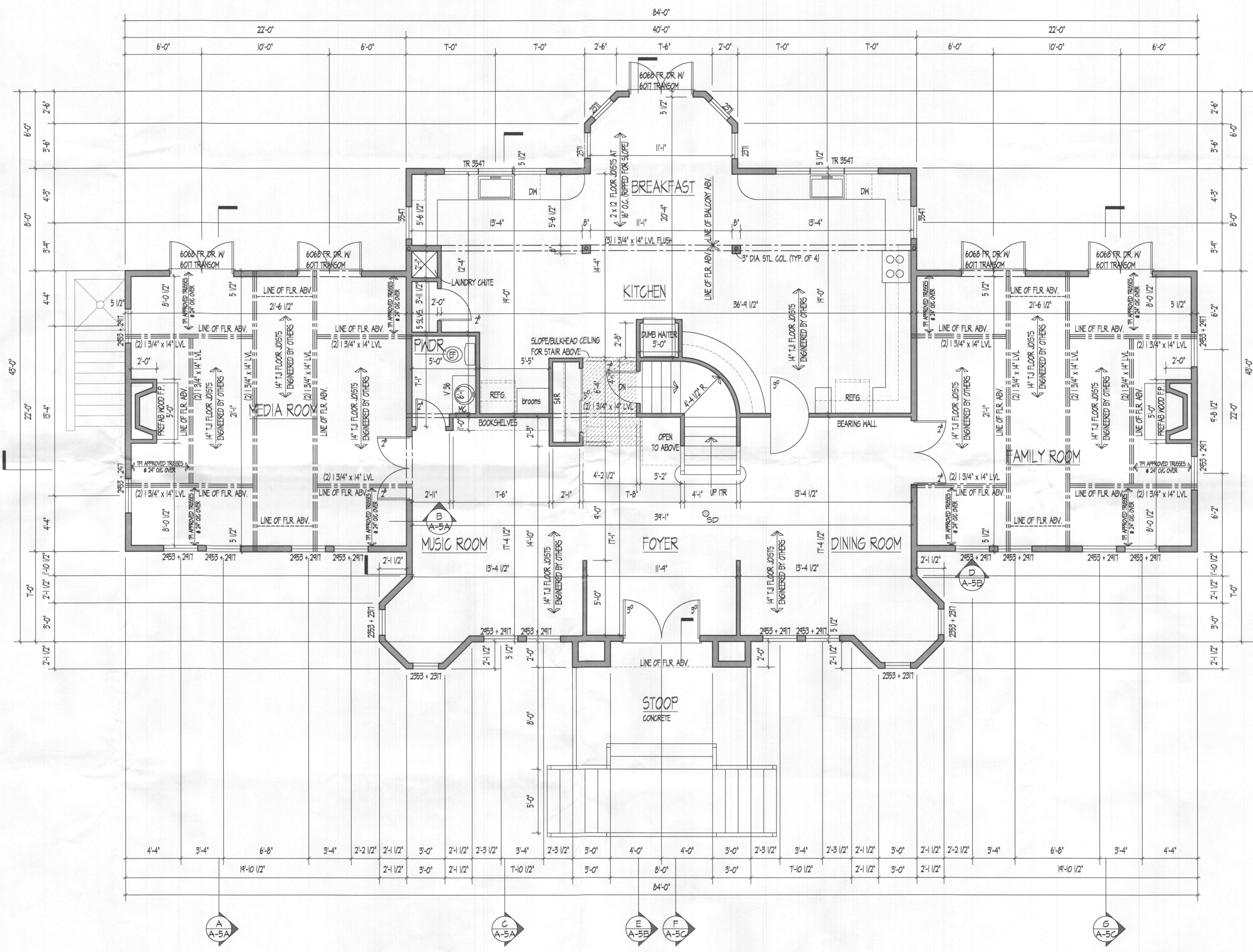
**FOUNDATION PLAN**

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

ISSUE: \_\_\_\_\_

SHEET NO. \_\_\_\_\_

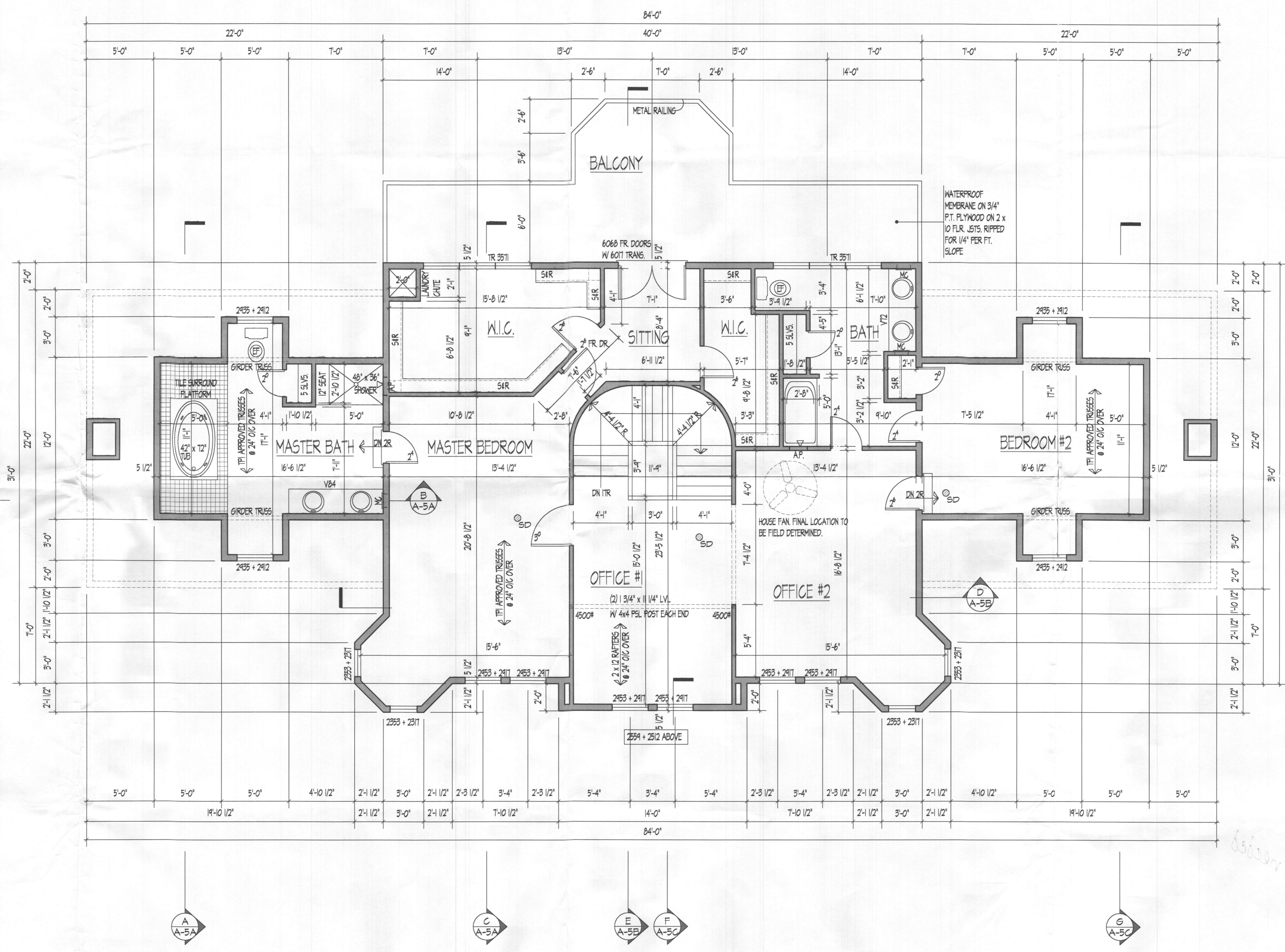
**A-2**



**FIRST FLOOR PLAN**  
SCALE: 1/4"=1'-0"



ISSUE	DATE	DESCRIPTION



**JB HOME DESIGN, LLC**  
 446 CONCORD COURT  
 BALTIMORE, MARYLAND 2124  
 OFFICE (410) 594-9981  
 FAX (410) 663-4061  
 EMAIL: JON@JBHOMEDSIGN.COM

**SECOND FLOOR PLAN**  
**SHUKAT DE WIDT RESIDENCE**

CONTENTS  
 SCALE: 1/4" = 1'-0"  
 PROJECT TITLE:

ISSUE	DATE	DRWN.	PRJ.T. NO.

SHEET NO.

**SECOND FLOOR PLAN**  
 SCALE: 1/4"=1'-0"

**A=4**