

Bureau of Environmental Health
 7178 Gateway Drive Columbia, MD 21046
 (410) 313-2640 Fax (410) 313-2648
 TDD (410) 313-2323 Toll Free 1-866-313-6300
 website: www.hchealth.org

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 6/24/14 **ONSITE SEWAGE DISPOSAL SYSTEM** P 554523

INSTALLATION APPROVAL DATE: _____ **PERMIT** A _____
CONSTRUCTION

PROPERTY ADDRESS: 2910 Winterhazel Court
 SUBDIVISION: Belle Haven Estates LOT: 29 TAX ID: 04-373979
 CONTRACTOR: Ben Lewis Plumbing EMAIL: _____
 CONTRACTOR ADDRESS: 23407 Frederick Road, Clarksburg, MD 20871 PHONE: 301-674-3324
 PROPERTY OWNER: K Hovnanian Homes EMAIL: _____
 OWNER ADDRESS: 1802 Brightseat Road, Landover, MD 20785 PHONE: 301-683-6268

BAT UNIT MODEL: HOOT / BNR 600 BAT UNIT SIZE: 600 GPD
 PUMP CHAMBER CAPACITY (GALLONS): 750 PUMP SIZE: _____
 NUMBER OF BEDROOMS: 4 HOUSE SQ. FT. _____ APPLICATION RATE: 1.2
 DISTRIBUTION SYSTEM: GRAVITY FED LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN (90)</u>	INLET DEPTH: <u>SEE BAT PLAN</u>
	TRENCH WIDTH: <u>3 2</u>	MAXIMUM BOTTOM DEPTH: <u>7.5</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>9 SEE BAT PLAN</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>3.5</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Set BAT unit and pump tank per plan. <u>MB</u> Install 70' length trenches on contour.	

ISSUED BY: Robert Bricker ISSUE DATE: 7/24/14 EXPIRATION DATE: 7/24/15

- NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION
- NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING
- NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.
- NOTE: WATERTIGHT SEPTIC TANKS REQUIRED
- NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL
- NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS
- NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.
PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.
CALL 410-313-1771 TO SCHEDULE INSPECTIONS.



MAYER BROS., INC.

Precast Concrete Products

6264 Race Rd. Elkridge, MD 21075

Letter of Satisfaction Hoot System Installation

Address of Property: 2910 Winterhazel Ct. Lot 29
Woodbine, MD. 21797

Date of Final Inspection: 10/14/14

Installer: Ben Lewis Plumbing

Hoot Technician/Inspector: Mike Sample

I hereby certify that the Hoot system installed at the property listed above has been installed according to proper Hoot installation practices. I have also verified the startup of the system and it is in proper working order.

Sincerely,

H. Michael Sample
Name of Inspector
Mayer Bros., Inc.

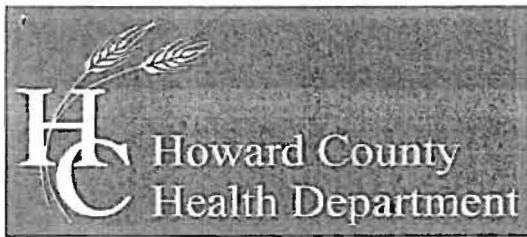
PH: 410-796-1434

FX: 410-796-1438

WBE
NPCA Certified Plant

mayerbro@connext.net
www.mayerbrosprecast.com

Grease Interceptors, Grease Solutions, Aerobic Treatment Units, Septic Tanks, Holding Tanks, Storm Water Structures, Hydroceptors,
Bench Barrier, Water Meter Vaults, Sectional Valve Vaults, Top Slabs, Curb Heads, Curb Bumpers, PermEntry Basement Entries,
Scapewell Window Wells, Custom Precast Products



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TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

**OPERATION AND MAINTENANCE AGREEMENT
FOR AN ON-SITE SEWAGE DISPOSAL SYSTEM
HAVING AN ADVANCED PRE-TREATMENT SYSTEM**

THIS AGREEMENT is made this 23rd day of JUNE, 2014, among KHOJANIAN HOMES OF MARYLAND LLC, hereinafter collectively referred to as "Owner", and the Howard County Health Department hereinafter referred to as the "County".

WHEREAS, Owner is the owner or contract owner of a parcel of land located at 2910 WINTERBARK COURT, WOODBINE MD 21797, in the 04 Election District of Howard County, Maryland, and the deed to same is recorded or shall be recorded among the Land Records of Howard County, Maryland in Liber 15548 Folio 437. 04/373952
LOT 29

WHEREAS, The Lot is suitable for the installation of a conventional on-site sewage disposal system with an advanced pre-treatment system, utilizing best available technology to perform nitrogen reduction, in accordance with the Code of Maryland Regulations 26.04.02.07, effective January 1, 2013.

NOW, THEREFORE, the parties hereto agree as follows:

A. Owner hereby grants to the County the right to enter upon the Lot at any reasonable time for access to the system to make periodic inspections and the Owner agrees to provide any information and data in Owner's possession reasonably requested and needed by the County to develop accurate and thorough test results.

B. Owner acknowledges and agrees that neither the County nor any of its agents or employees, either officially or individually, underwrites the operation of any system approved by them.

C. The Owner will devote reasonable care and effort to the operation and maintenance of the system in perpetuity or until a public sewer connection is made so that a system malfunction is not the result of poor maintenance, faulty operation, or neglect.

D. The Owner agrees to enter into a contract reasonably acceptable to the Owner and the County with a private entity to operate and maintain on a regularly scheduled basis an approved advanced pre-treatment system. The owner shall supply a copy of the contract to the County when it is renewed or altered.

E. This agreement shall run with the land and upon Owner's taking title to the Lot shall bind the Owner, their heirs, successors, and assigns to the provisions of the agreement as

long as the property is in existence and after installation of the system. Owner further agrees that they shall inform in writing any subsequent purchaser or lessee of the Lot that the system shall require maintenance or other attention. Upon taking title to the Lot, the Owner agrees to cause this agreement to be recorded in the Land Records of Howard County and assure that it becomes part of the Deed for the subject property in order that prospective buyers may be aware of the special conditions affecting this property.

F. This agreement shall not be construed to limit any authority of the County to protect the public health, safety or comfort or to issue any other orders to take any other action which is now or may hereafter be within its authority.

G. This agreement may be voided at any time at the discretion of the County.

H. This agreement contains the entire agreement and understanding between the County and the Owner. There are no additional terms other than as contained in this agreement. This agreement may not be modified, except in writing signed by each of the parties or by their authorized representatives.

I. The laws of the State of Maryland govern the provisions of all transactions pursuant to this agreement.

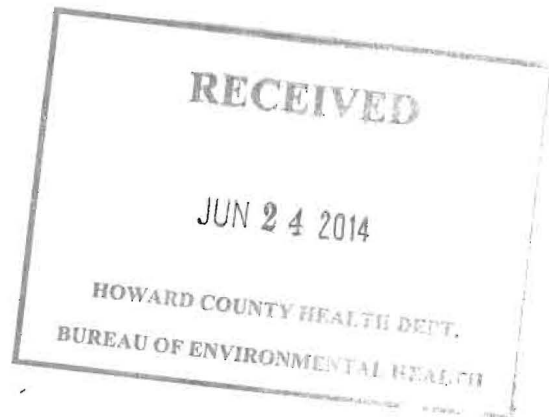
J. Owner acknowledges and agrees that interior renovations to increase the number of bedrooms or an increase in living space shall not be permitted without approval from the County.

IN WITNESS WHEREOF, the parties have signed and sealed this agreement on the date indicated above.

Steve Snyder
Owner Steve Snyder Date 6/23/14
VP. KAPLAN/STAN/STANIS
OF MARYLAND I LLC

Owner Date

Paul Rifon 6/27/2014
Howard County Health Department



2910 Wintertown
Ct.

Clerk of the Circuit Court for
Howard County
Land Records/Licensing

The Thomas Dorsey Building
9250 Bendix Road
Columbia, MD 21045
410-313-5850

=====
LR - Agreement Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: Khovnanian Homes
of Maryland
Reference/Control #: 209

LR - Agreement Surcharge
1x 40.00 40.00

LR - Agreement Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: Khovnanian Homes
of Maryland
Reference/Control #: 210

LR - Agreement Surcharge
1x 40.00 40.00

LR - Agreement Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: Khovnanian Homes
of Maryland
Reference/Control #: 211

LR - Agreement Surcharge
1x 40.00 40.00

LR - Agreement Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: Khovnanian Homes
of Maryland
Reference/Control #: 212

LR - Agreement Surcharge
1x 40.00 40.00

LR - Agreement Recording Fee
1x 20.00 20.00

Grantor/Grantee Name: Khovnanian Homes
of Maryland
Reference/Control #: 213

LR - Agreement Surcharge
1x 40.00 40.00

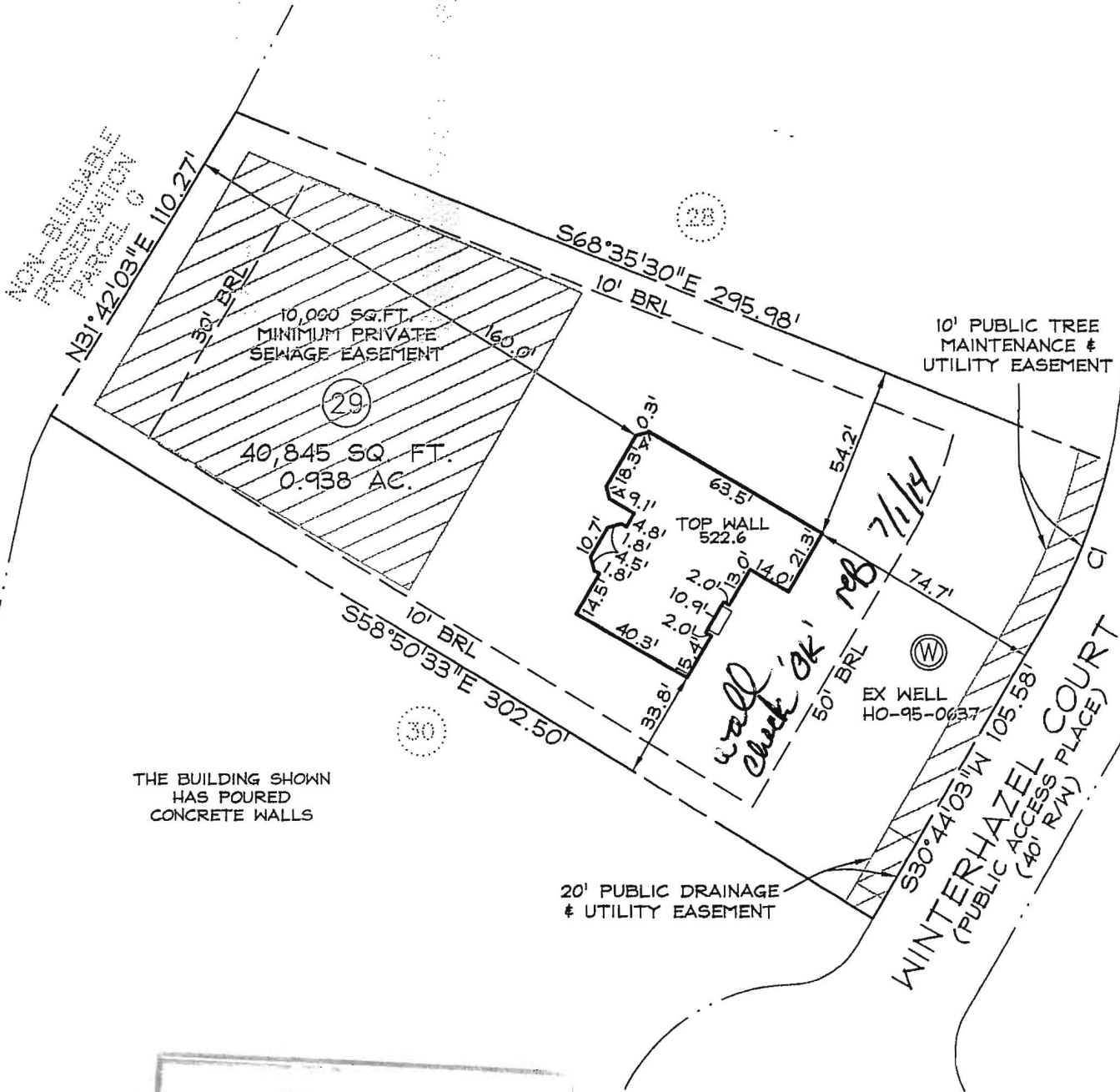
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SubTotal: 300.00
Total: 300.00

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REV-Check-BOA 60.00
Number : 00016426
REV-Check-BOA 60.00
Number : 0016425
REV-Check-BOA 60.00
Number : 00016424
REV-Check-BOA 60.00
Number : 00045404

06/24/2014 14:24 CC13-DS
#2959610 /1246/109
~ Thank you for visiting us today ~

CURVE TABLE						
CURVE	RADIUS	LENGTH	DELTA	TAN	CHD. BRG.	CHD. DIST.
C1	180.00'	55.75'	17°44'58"	28.11'	N21°51'34"E	55.54'

MARYLAND COORDINATE SYSTEM NAD 83 (1991)



THE BUILDING SHOWN HAS POURED CONCRETE WALLS

RECEIVED

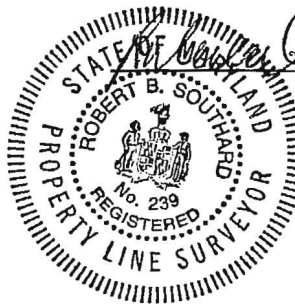
JUN 24 2014

HOWARD COUNTY HEALTH DEPT.
BUREAU OF ENVIRONMENTAL HEALTH

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I EITHER PERSONALLY PREPARED OR WAS IN RESPONSIBLE CHARGE OVER THE PREPARATION OF THIS DRAWING AND THE SURVEYING WORK REFLECTED IN IT, AND THAT IT IS IN COMPLIANCE WITH REQUIREMENTS SET FORTH IN REGULATION .12 OF CHAPTER 06, MINIMUM STANDARDS OF PRACTICE.

I AM A DULY LICENSED PROPERTY LINE SURVEYOR UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 239, EXPIRATION DATE 7/6/14.



Robert B. Southard 6-20-14



Planners
Surveyors
Engineers
Landscape Architects

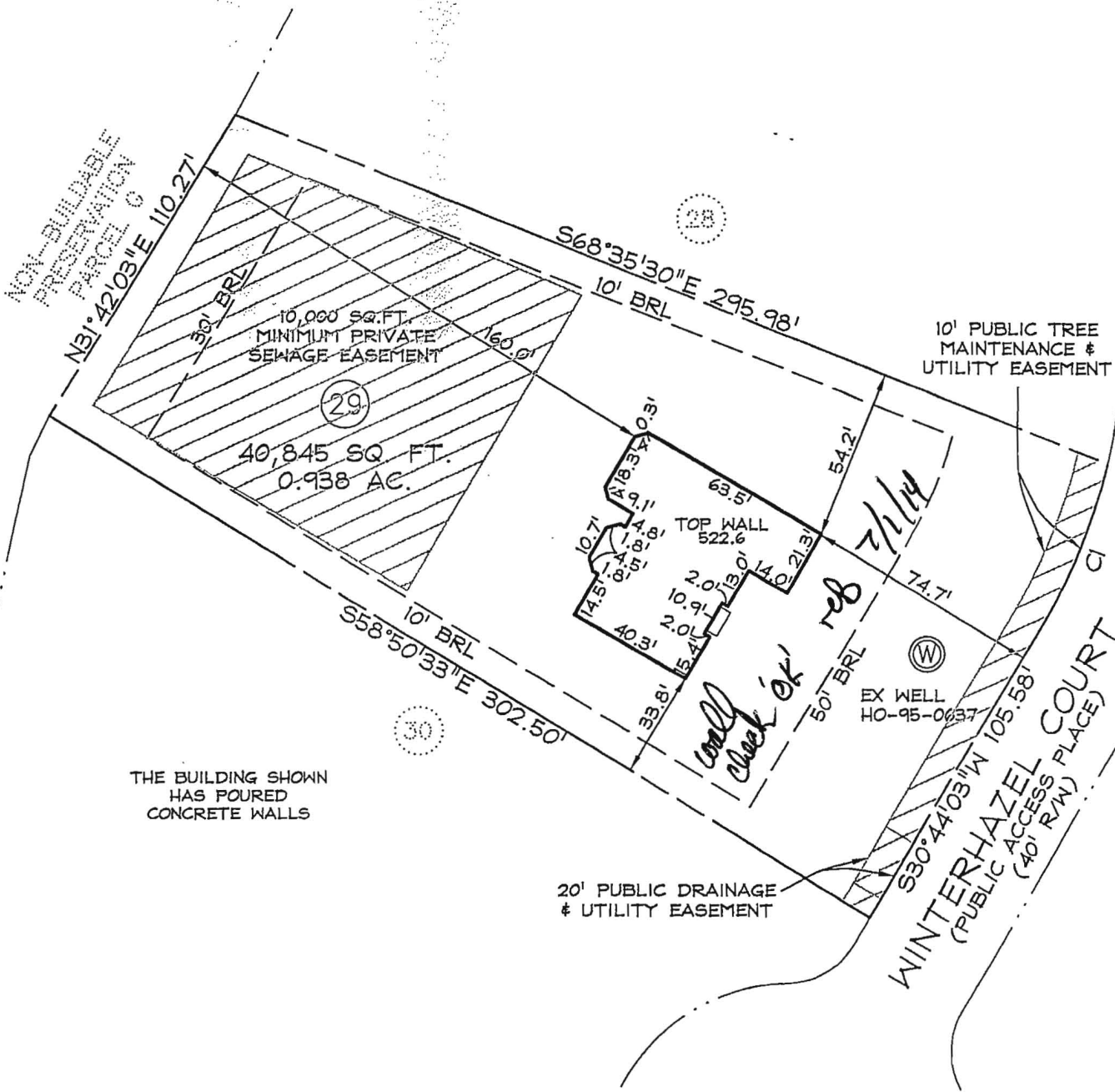
192 East Main Street
Westminster, MD 21157
410.386.0560
410.386.0564 (Fax)
DDC@DDCinc.us
www.DDCinc.us

WALL CHECK SURVEY
#2910 WINTERHAZEL COURT
LOT 29
BELLE HAVEN ESTATES
PLAT NO. 19951

DDC JOB#: 06116.5
DATE: 06-17-2014
SCALE: 1"=50'
DRN. BY: RC
CHK. BY: RBS

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CURVE	RADIUS	LENGTH	DELTA	TAN	CHD. BRG.	CHD. DIST.
C1	180.00'	55.75'	17°44'58"	28.11'	N21°51'34"E	55.54'

MARYLAND COORDINATE SYSTEM NAD 83 (1991)



THE BUILDING SHOWN HAS POURED CONCRETE WALLS

20' PUBLIC DRAINAGE & UTILITY EASEMENT

10' PUBLIC TREE MAINTENANCE & UTILITY EASEMENT

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DDC JOB#:	06116.5
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DRN. BY:	RC
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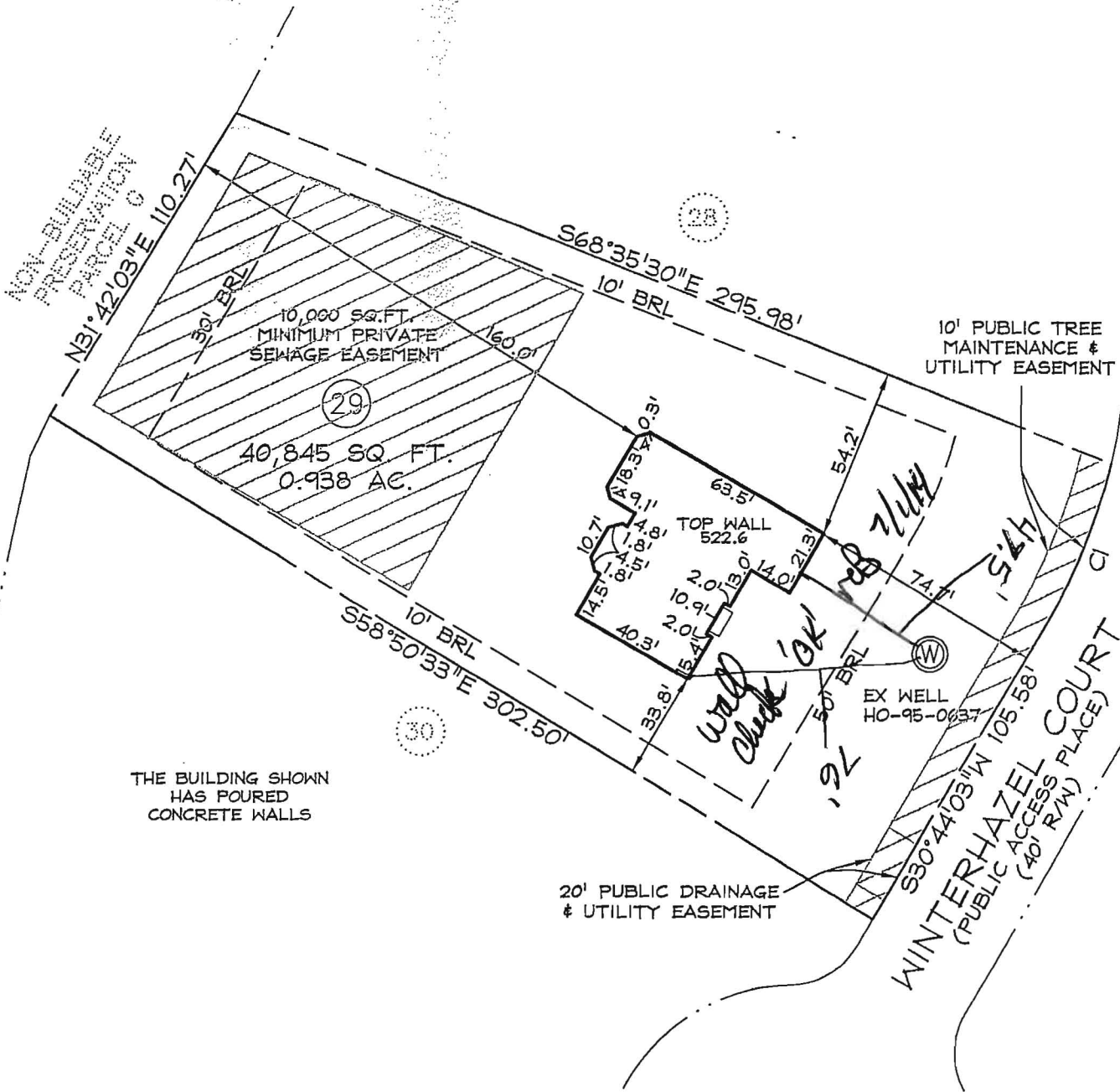


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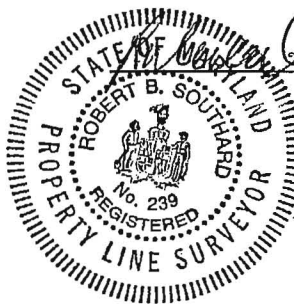


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Robert B. Southard 6-20-14

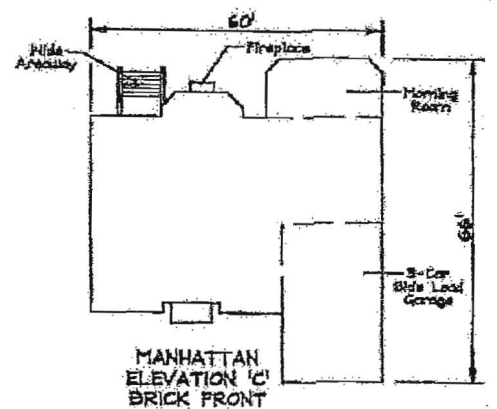
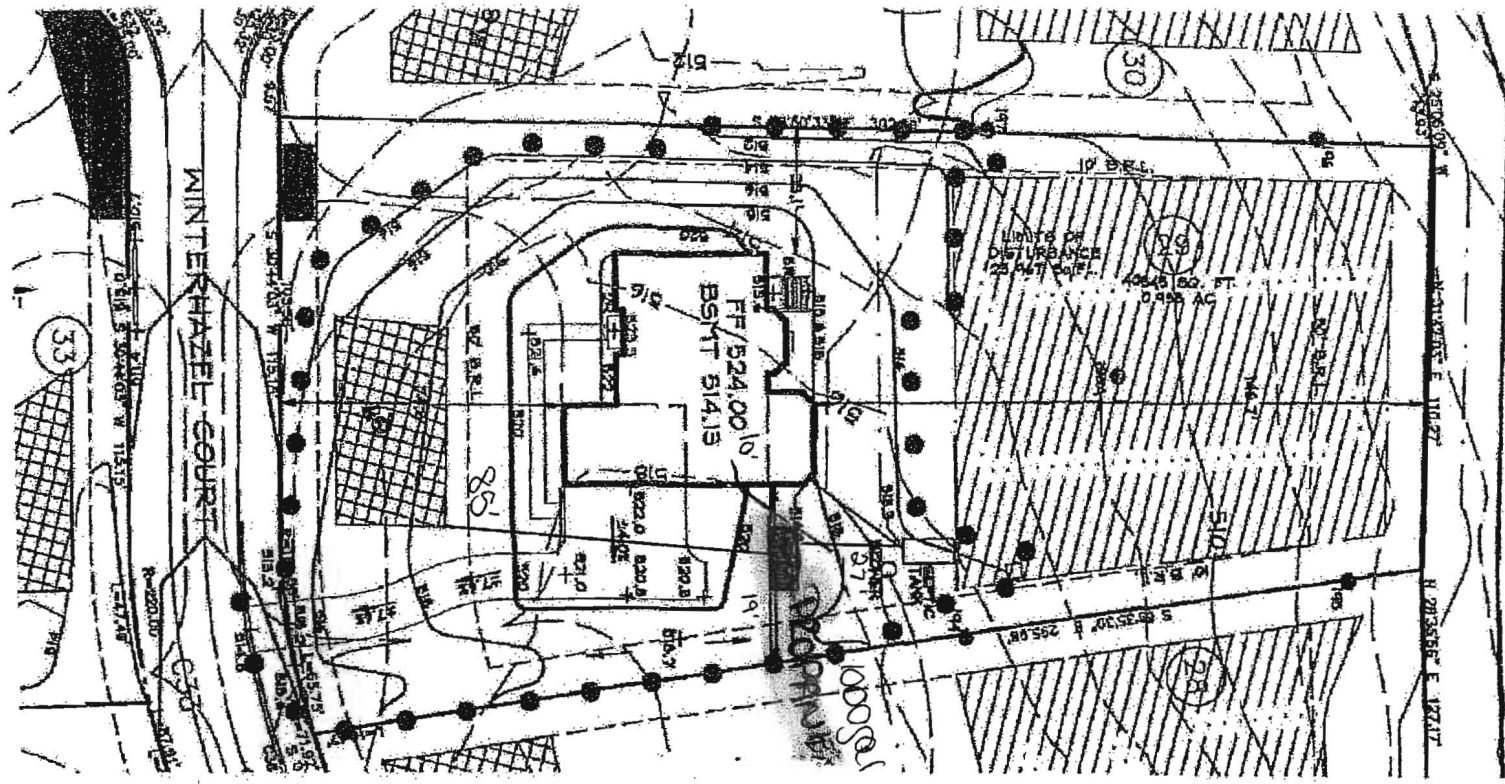
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DDC JOB#:	06116.5
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SCALE:	1"=50'
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GENERAL NOTES

1. THE EXISTING WELL SHOWN ON THIS PLAN (HO-93-0834) HAS BEEN LOCATED BY DDC, PROFESSIONAL LAND SURVEYOR, AND IS ACCURATELY SHOWN.
2. BASE SQUARE FOOTAGE OF HOUSE: 4,143 sq.ft.
NUMBER OF BEDROOMS: 4
3. INFORMATION SHOWN ON THIS PLAN BASED ON PLANS PREPARED BY DMW DATED 6/25/07. EXISTING TOPOGRAPHY BASED ON GRADING PLAN PREPARED BY DEMARIO DESIGN CONSULTANTS DATED 7/9/07 AND FIELD RUN TOPOGRAPHY PREPARED BY DDC INC IN JAN. 2012.
4. EJECTOR PUMP REQUIRED TO SEWER BASEMENT
5. PER THE APPROVED ROAD DRAWINGS, F-07-35, A DRIVEWAY CULVERT IS REQUIRED.

*UPT
plan approved
as shown 9-8-14
H. Oswald*

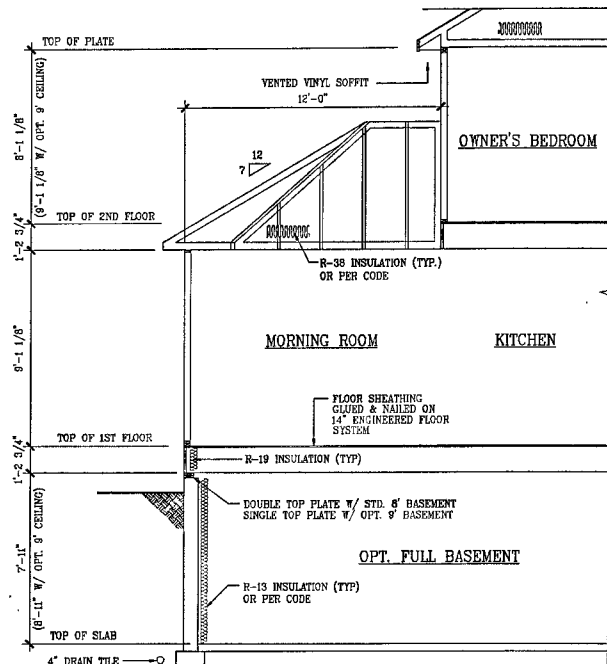
*Scale
1-50*



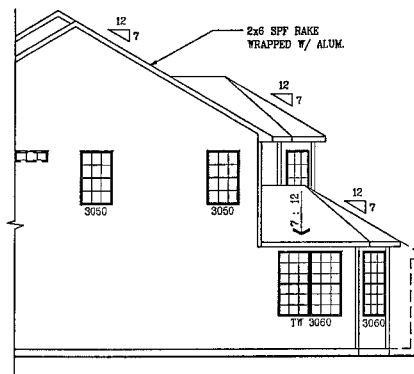
Index
152 Ea
Wardman
410.2
DD

DDC JOB#:	0
DATE:	03/0
SCALE:	1" =
DES. BY:	J
DRN. BY:	J
CHK. BY:	B

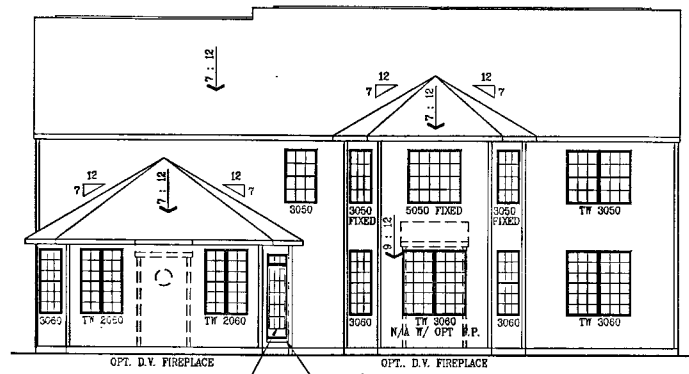
<p>BELLE HAVEN ESTATES 3rd ELECTION DISTRICT HOWARD COUNTY, MD TAX MAP 14, PARCEL 66</p>	<p>2910 LOT 29 WINTERHAZEL COURT WOODBINE, MD 21797 PLOT PLAN KHOV ELEVATION</p>	<p>OWNER/BUILDER: K.HOVNANIAN HOMES 1802 Brightseat Road Landover, Maryland 20785 (301)683-6268</p>
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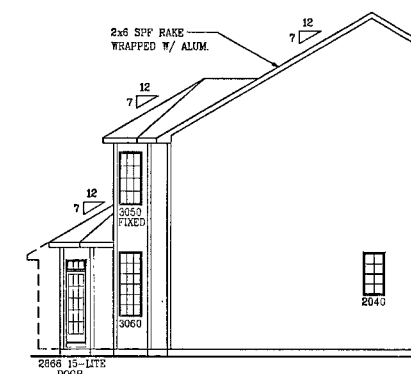
CROSS SECTION "B-B" W/ FULL BASEMENT



RIGHT SIDE ELEVATION
SCALE: 1/16"=1'-0" @ 11 X 17
SCALE: 1/8"=1'-0" @ 24 X 36



REAR ELEVATION
SCALE: 1/16"=1'-0" @ 11 X 17
SCALE: 1/8"=1'-0" @ 24 X 36



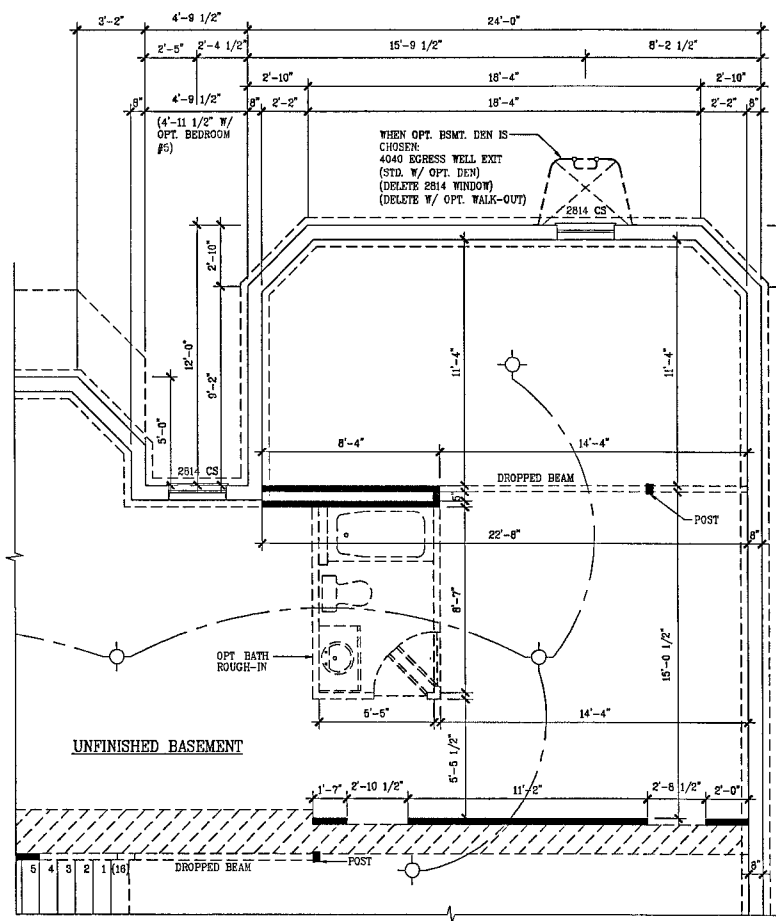
LEFT SIDE ELEVATION
SCALE: 1/16"=1'-0" @ 11 X 17
SCALE: 1/8"=1'-0" @ 24 X 36

SCALE:
1/8" = 1'-0" @ 11 x 17
1/4" = 1'-0" @ 24 x 36

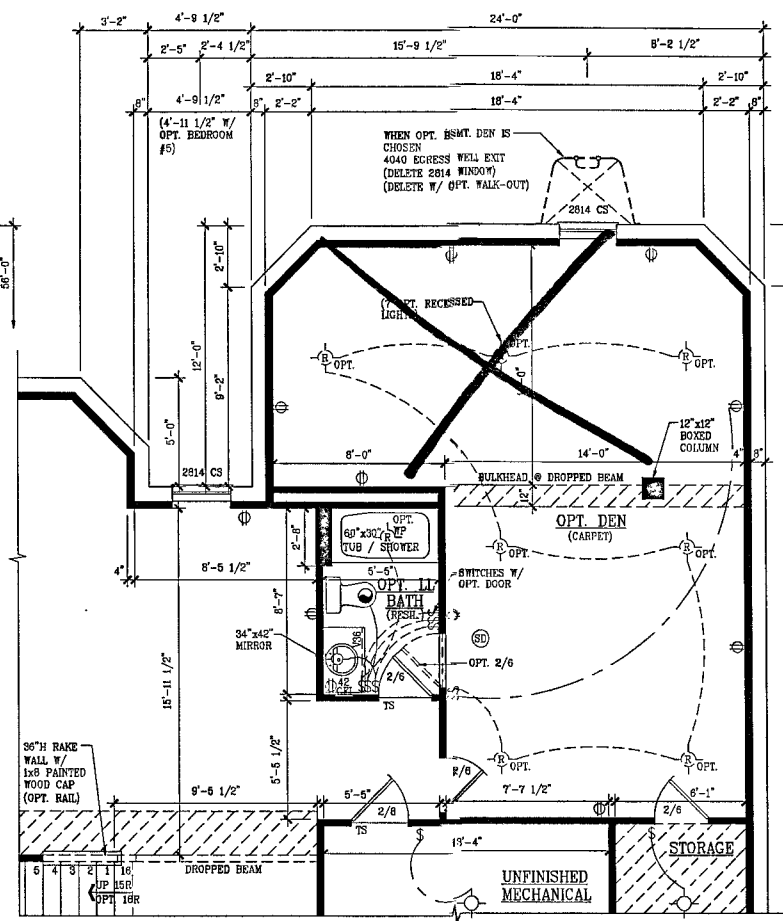
NOTES:
1. ALL INTERIOR & EXTERIOR WALLS ARE SHOWN @ 3/4" UNLESS OTHERWISE NOTED

SHEET NUMBER	6D
SCALE	AS NOTED
DRAWN BY	
DATE	6-20-2013

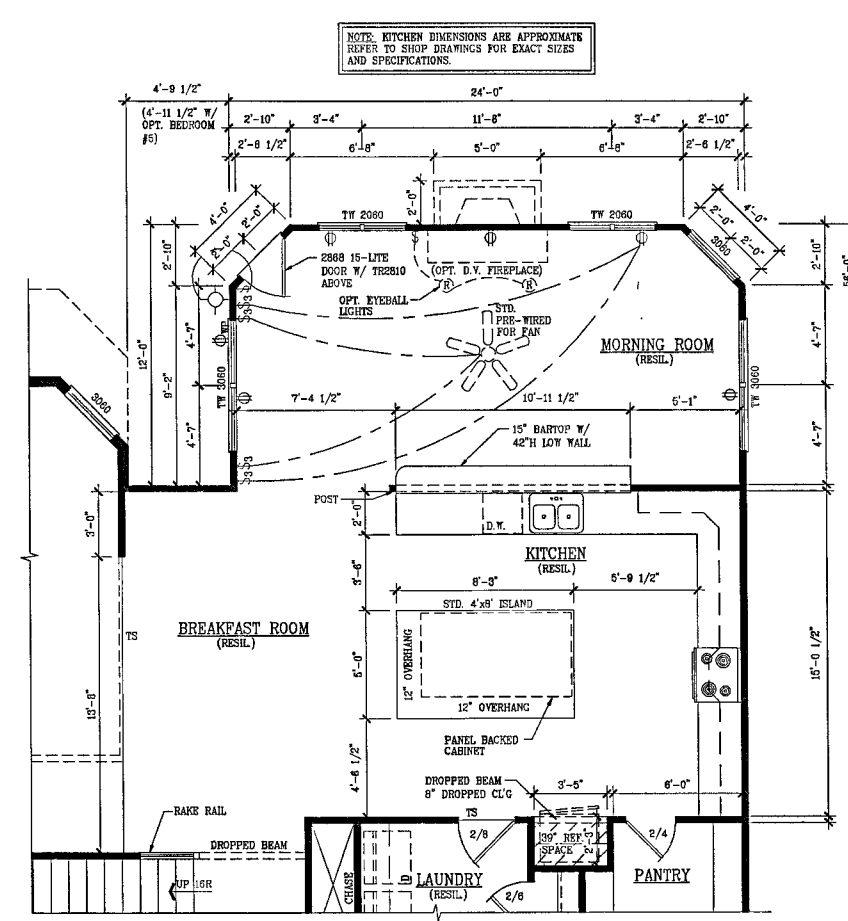
REVISION	DATE	BY	REMARKS



FOUNDATION PLAN - STD. BASEMENT



OPT. FINISHED LOWER LEVEL



OPT. MORNING ROOM FIRST FLOOR PLAN

MANHATTAN
KV198_6039

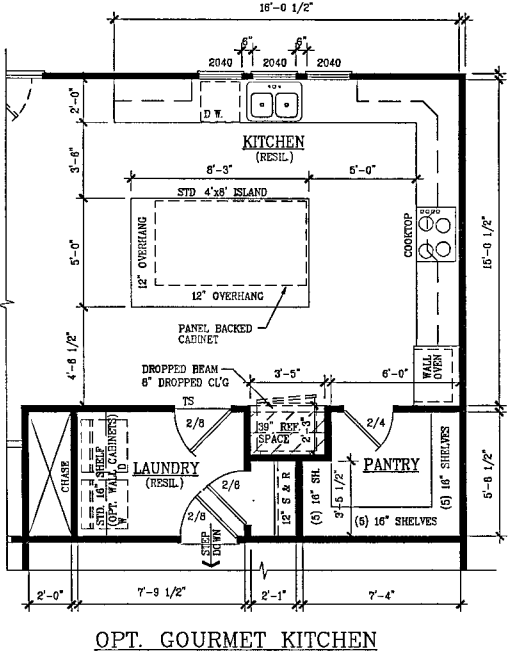
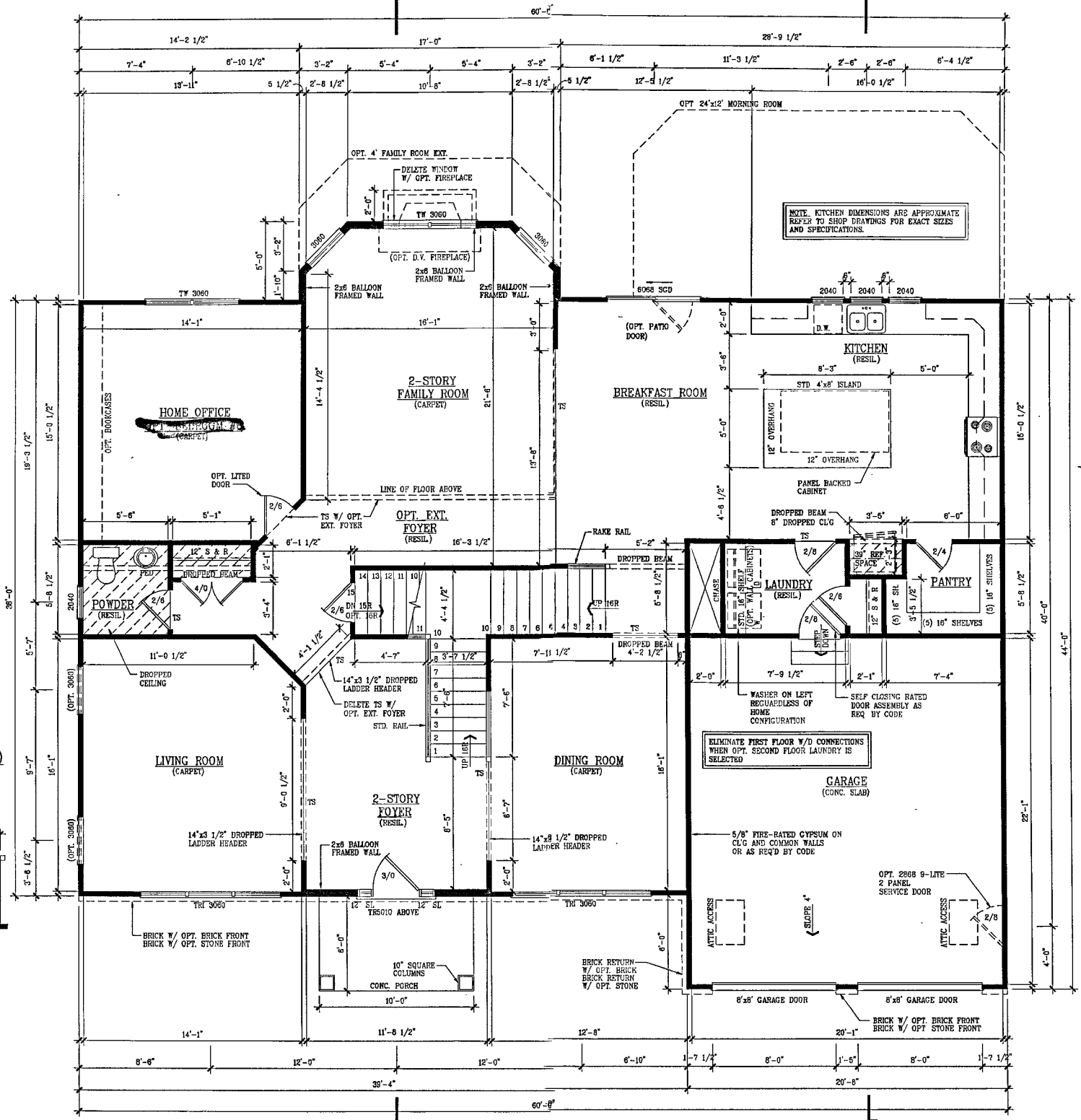
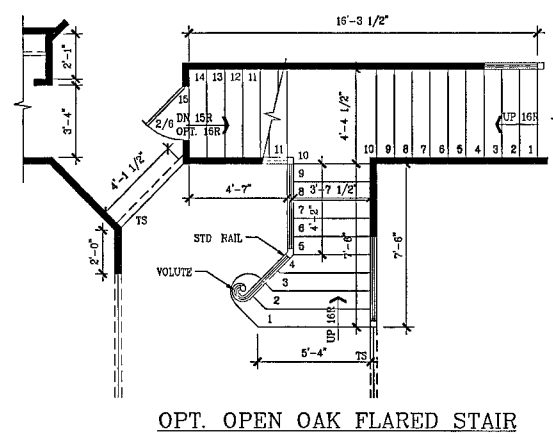
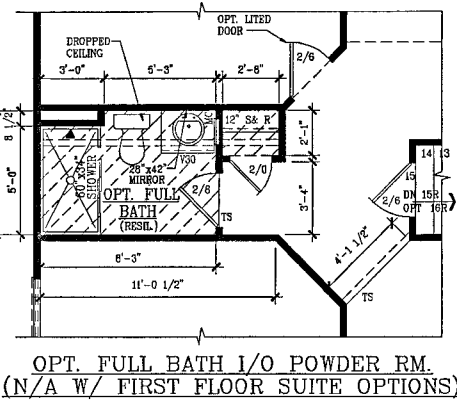
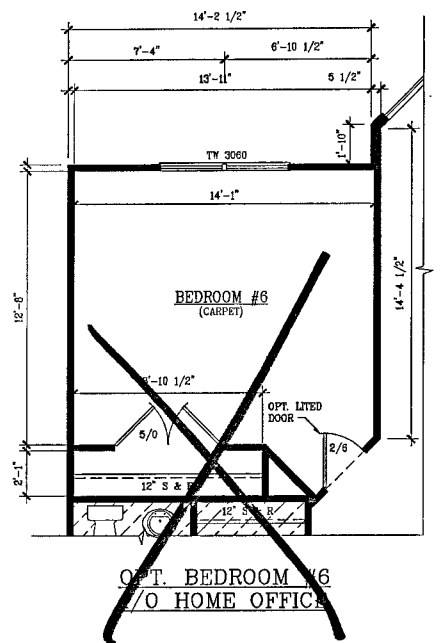
MODEL	MANHATTAN
SET #	



SCALE:
 1/8" = 1'-0" @ 11 x 17
 1/4" = 1'-0" @ 24 X 36

NOTES:
 1. ALL INTERIOR & EXTERIOR WALLS ARE SHOWN @ 3/4" UNLESS OTHERWISE NOTED.

SHEET NUMBER
4A
 SCALE AS NOTED
 DRAWN BY
 DATE 6-20-2013



FIRST FLOOR PLAN
 ELEVATION "A"

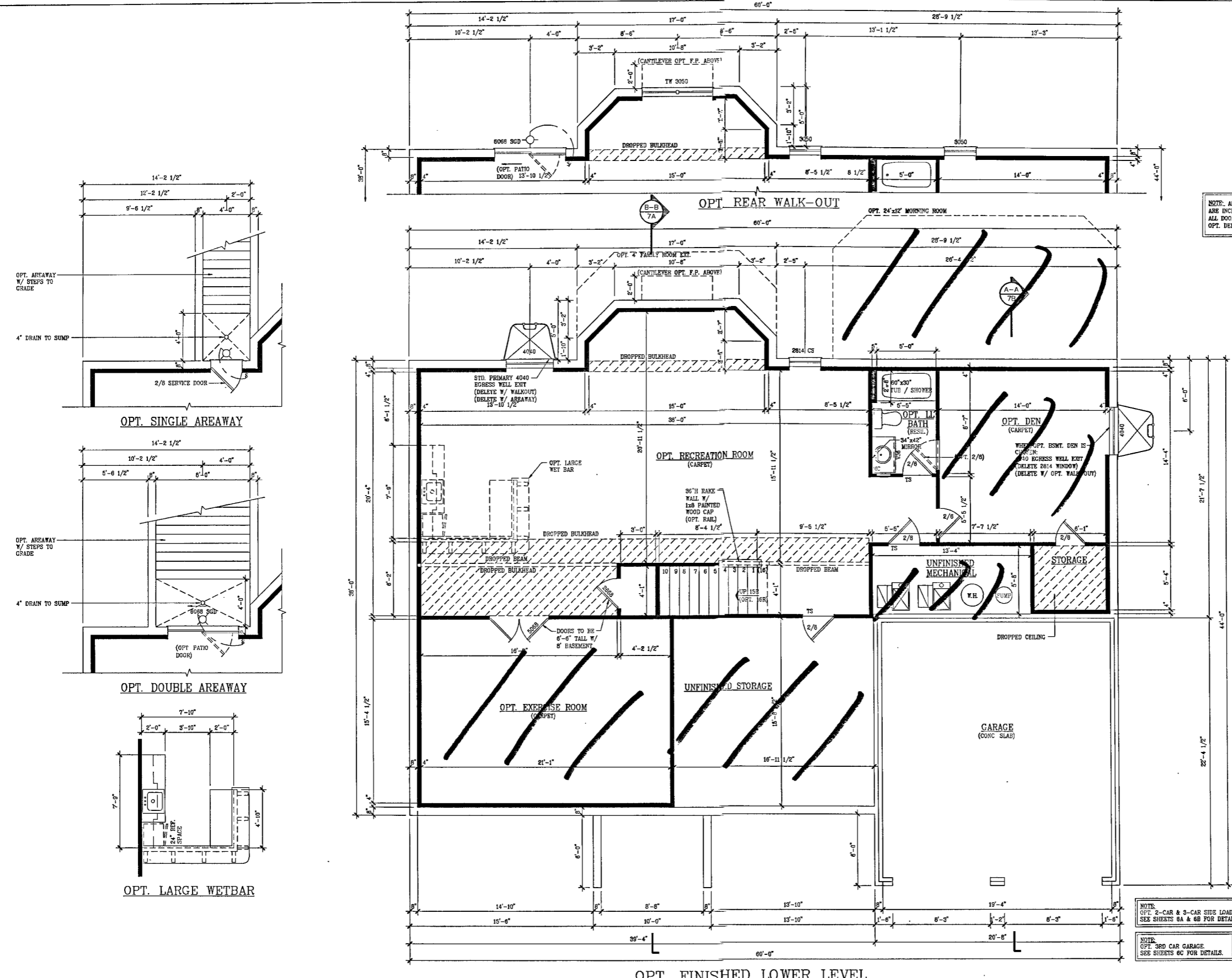
NOTE: OPT. 2-CAR & 3-CAR SIDE LOAD GARAGE. SEE SHEETS 6A & 6B FOR DETAILS.
 NOTE: OPT. 3RD CAR GARAGE. SEE SHEETS 6C FOR DETAILS.

REVISION	DATE	BY	REMARKS

MODEL MANHATTAN
 SET #



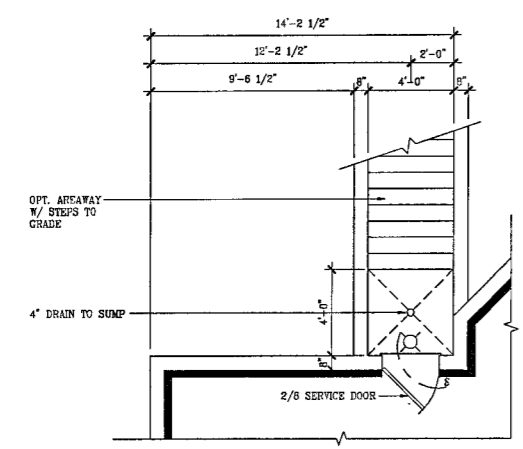
MANHATTAN
 KV198_6039



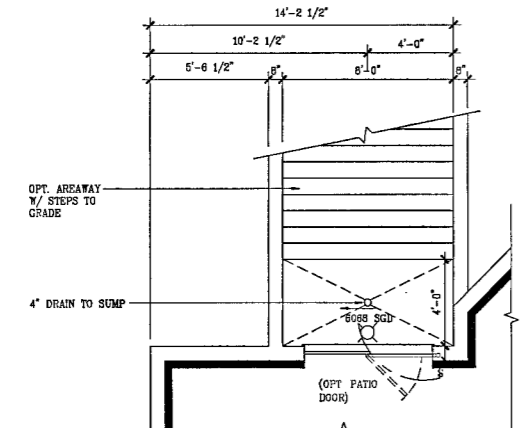
NOTES:
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SCALE:
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 1/4" = 1'-0" @ 24 x 36

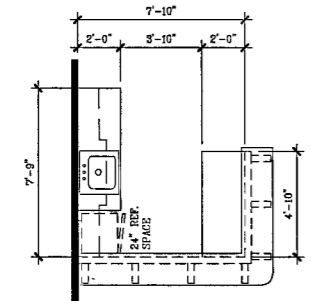
NOTE: ALL DOORS & CLOSETS CONTIGUOUS W/ OPT. REC. ROOM ARE INCLUDED W/ REC. ROOM
 ALL DOORS & CLOSETS CONTIGUOUS W/ OPT. DEN ARE INCLUDED W/ OPT. DEN.



OPT. SINGLE AREAWAY



OPT. DOUBLE AREAWAY



OPT. LARGE WETBAR

NOTE: OPT. 2-CAR & 3-CAR SIDE LOAD GARAGE. SEE SHEETS 8A & 8B FOR DETAILS.

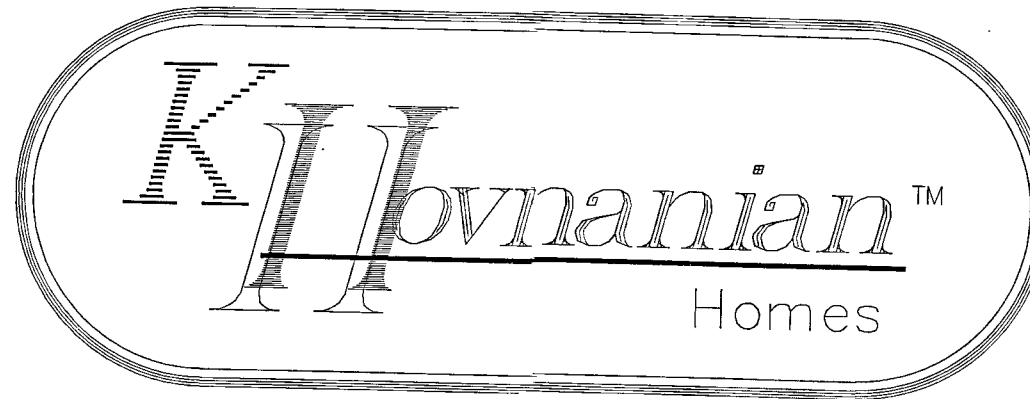
NOTE: OPT. 3RD CAR GARAGE. SEE SHEETS 6C FOR DETAILS.

SHEET NUMBER	3B
SCALE	AS NOTED
DRAWN BY	
DATE	6-20-2013
REVIEW	
REVIEW	
REVIEW	
REVIEW	
MODEL	MANHATTAN
SET #	

MANHATTAN
 KV198_6039

OPT. FINISHED LOWER LEVEL

MID ATLANTIC
AREA



MANHATTAN

REVISION DATE: 6-20-2013

SHEET	DRAWING
1A	TITLE SHEET
PG-1B	2012 IECC CODE COMPLIANCE NOTES
PG-1C	PG COUNTY DETAILS
1D	RES-CHECK
2A	ELEVATION "A" - STD. 8' SECOND FLOOR
2B	ELEVATION "A" W/ BRICK & STONE - STD. 8' SECOND FLOOR
2C	ELEVATION "A" - STD. 9' SECOND FLOOR
2D	ELEVATION "A" W/ BRICK & STONE - STD. 9' SECOND FLOOR
2E	ELEVATION "B" - STD. 8' SECOND FLOOR
2F	ELEVATION "B" W/ BRICK & STONE - STD. 8' SECOND FLOOR
2G	ELEVATION "B" - STD. 9' SECOND FLOOR
2H	ELEVATION "B" W/ BRICK & STONE - STD. 9' SECOND FLOOR
2J	ELEVATION "B" PARTIAL PLANS
2K	ELEVATION "C" - STD. 8' SECOND FLOOR
2L	ELEVATION "C" W/ BRICK & STONE - STD. 8' SECOND FLOOR
2M	ELEVATION "C" - STD. 9' SECOND FLOOR
2N	ELEVATION "C" W/ BRICK & STONE - STD. 9' SECOND FLOOR
2P	ELEVATION "C" PARTIAL PLANS
2Q	ELEVATION "D" - STD. 8' SECOND FLOOR
2R	ELEVATION "D" W/ BRICK & STONE - STD. 8' SECOND FLOOR
2S	ELEVATION "D" - STD. 9' SECOND FLOOR
2T	ELEVATION "D" W/ BRICK & STONE - STD. 9' SECOND FLOOR
2U	ELEVATION "D" PARTIAL PLANS
3A	FOUNDATION PLANS - STD. FULL BASEMENT
3B	FOUNDATION PLANS - OPT. FINISHED LOWER LEVEL
4A	FIRST FLOOR PLANS
5A	SECOND FLOOR PLANS
6A	OPT. 2-CAR SIDE LOAD GARAGE
6B	OPT. 3-CAR SIDE LOAD GARAGE
6C	OPT. 3RD CAR GARAGE
6D	OPT. MORNING ROOM
6E	OPT. BEDROOM #5
6F	OPT. 4' FAMILY ROOM EXT.
6G	OPT. CONSERVATORY
6H	OPT. FIRST FLOOR SUITE W/ BATH
6J	OPT. FIRST FLOOR SUITE #2 W/ BATH
6K	OPT. ALT. FIRST FLOOR SUITE W/ BATH
7A	WALL SECTION - STD. BASEMENT
7B	BUILDING SECTIONS "A-A"
7C	BUILDING SECTIONS "B-B"
8A	OPT. FINISHED LOWER LEVEL ELECTRICAL PLAN
8B	FIRST FLOOR ELECTRICAL PLAN
8C	SECOND FLOOR ELECTRICAL PLAN
8D	OPT. FIRST FLOOR SUITE W/ BATH #2 ELECTRICAL PLANS
8E	OPT. ALT. FIRST FLOOR SUITE W/ BATH ELECTRICAL PLANS
9A	PORTICO PORCH DETAILS

DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION
9-8-2010	PRELIMINARY PLANS	5-28-2012	MISC. REVISIONS	3-29-2013	AR-2013-37
2-17-2011	MISC. REVISIONS	6-19-2012	DTO COMMENTS	4-22-2013	AR-2013-42
4-8-2011	ADDED OPT. AREAWAYS TO BASEMENT PLANS	6-25-2012	ADDITIONAL DTO COMMENTS	6-20-2013	AR-2013-107
8-30-2011	AR-CPD-11-192	7-23-2012	ADDED BRICK/STONE LOCATIONS TO SIDE LOAD GARAGE ELEVS		
11-17-2011	PROTOTYPE REVISIONS	9-5-2012	CPR-AR-12-259		
11-21-2011	AR-CPD-11-278	11-7-2012	CPD-AR-12-372		
1-6-2012	AR-CPD-12-5	2-22-2013	AR-2013-04		
3-26-2012	PLAN REDESIGN / ADDED ELEVATION D / ADDED OPTIONS	3-13-2013	REVISED PG COUNTY NOTES SHEET		
4-23-2012	OPT. BEDROOM SUITE SHOWER REVISIONS	3-15-2013	PROTOTYPE REVISIONS		

2012 IECC & IRC BUILDING CODE

SEPTIC PERMITS

GENERAL NOTES

- BASE SQUARE FOOTAGE OF HOUSE: 4,143 SQ.FT.
NUMBER OF BEDROOMS: 4
- EJECTOR PUMP REQUIRED TO SEWER BASEMENT
- DRIVEWAY CULVERT IS REQUIRED PER THE APPROVED ROAD DRAWINGS, F-07-38.
- THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND PER COMP-LITE ZONING REGULATIONS DATED 7/28/06.
PLAT REFERENCE: #19948
- BASE INFORMATION SHOWN ON THIS PLAN IS BASED ON PLANS PREPARED BY DMV, AND DATED 06/25/07. EXISTING TOPOGRAPHY BASED ON GRADING PLAN PREPARED BY DEMARIO DESIGN CONSULTANTS DATED 07/09/07 AND FIELD RUN TOPOGRAPHY PREPARED BY DDC INC IN JAN. 2012.
- SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND DESIGN DETAILS. PRIOR TO STAKEOUT FOR CONSTRUCTION, IT SHALL BE THE OWNER/BUILDERS RESPONSIBILITY TO PROVIDE DDC, INC. WITH THE MOST RECENT SET OF HOUSE PLANS.
- THE CONTRACTOR OR DEVELOPER SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS / BUREAU OF ENGINEERING / CONSTRUCTION INSPECTION DIVISION AT (410)313-1881 AT LEAST FIVE (5) WORKING DAYS PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TOTAL LIMIT OF DISTURBANCE: 23,967 SQ. FT. / 0.55 AC.
- STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED PER THE PREVIOUSLY APPROVED FINAL PLAN (F-07-38)
- ANY DAMAGE TO PUBLIC "RIGHT-OF-WAYS" OR PAVED PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER (DDC, INC.) MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- THE DIMENSIONED DISTANCES SHALL GOVERN IF SCALED AND DIMENSIONED DISTANCES ON THIS PLAN ARE FOUND TO BE IN DISAGREEMENT.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ.FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- UPON BUILDING PERMIT REVIEW THE SEPTIC SYSTEMS OF ALL PROPOSED STRUCTURES AND OR EXISTING STRUCTURE EXPANSIONS SHALL BE RE-EVALUATED TO DETERMINE SUFFICIENT SYSTEM CAPACITY.
- THE DEVELOPMENT OF THIS LOT DOES NOT REQUIRE AN ENVIRONMENTAL CONCEPT PLAN SINCE STORMWATER MANAGEMENT WAS PREVIOUSLY APPROVED UNDER F-07-38.
- THE EXISTING WELL SHOWN ON THIS PLAN (H0-95-0637) HAS BEEN FIELD LOCATED AND IS SHOWN ACCURATELY.

SEPTIC SYSTEM/BEST AVAILABLE TECHNOLOGY (BAT) NOTES:

- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM DEPTH OF THE BAT PER THE MANUFACTURER'S SPECIFICATION IS 3 FEET. THE BLOWER MAY NOT BE LOCATED MORE THAN 10 FEET FROM THE TANK BASED ON THE MANUFACTURE'S SPECIFICATIONS.
- THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED FOR THE LIFE OF THE SYSTEM.
- THE BAT SYSTEM SHALL BE MAINTAINED AND OPERATED BY A CERTIFIED SERVICE PROVIDER.
- WITHIN ONE MONTH OF INSTALLATION, A PERSON INSTALLING THE BAT SYSTEM SHALL REPORT TO THE MARYLAND DEPARTMENT OF THE ENVIRONMENT (MDE) IN A MANNER ACCEPTABLE TO MDE, THE ADDRESS AND DATE OF COMPLETION OF THE BAT INSTALLATION AND THE TYPE OF BAT INSTALLED.
- ELECTRICAL WORK FOR THE BAT INSTALLATION MUST BE PERFORMED BY A LICENSED ELECTRICIAN. THE CONTROL PANEL SHALL BE PROVIDED ON THE FOUNDATION WALL ABOVE THE APPROXIMATE LOCATION OF THE SHC LEAVING THE HOUSE OR AT THE BAT LOCATION.
- AN AGREEMENT AND EASEMENT MUST BE COMPLETED AND SIGNED BY ALL APPLICABLE PARTIES, AND RECORDED IN LAND RECORDS OF HOWARD COUNTY.
- THE HEALTH DEPARTMENT REQUIRES DOCUMENTATION FOR THE START-UP CERTIFICATION FROM THE MANUFACTURER PRIOR TO FINAL APPROVAL OF THE INSTALLATION.

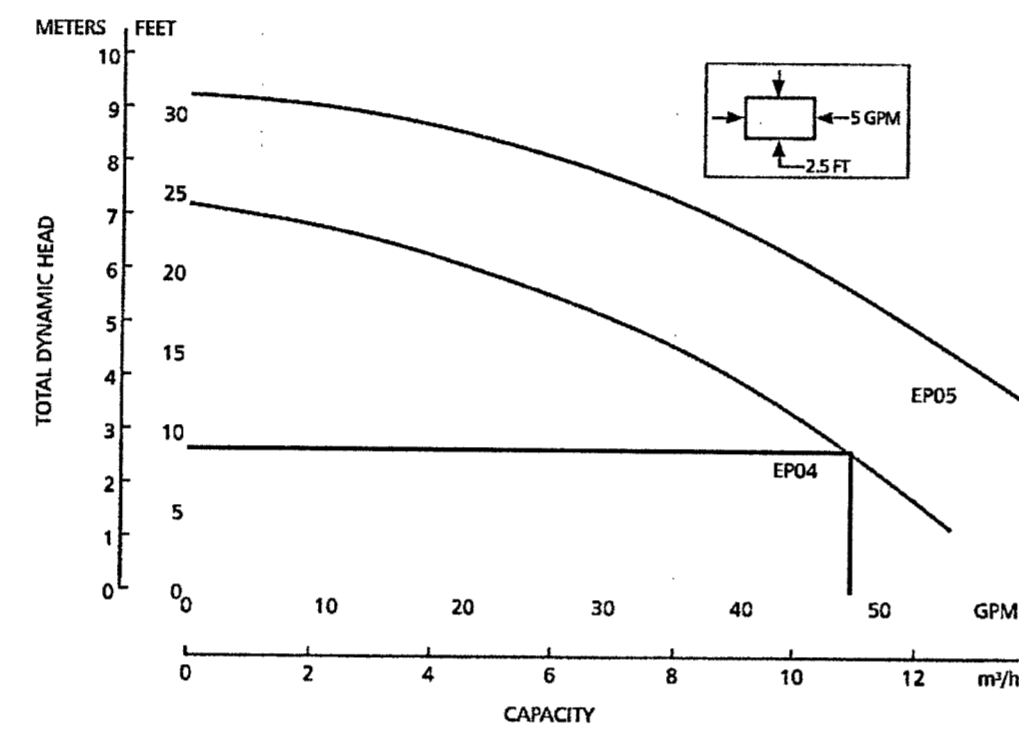


GOULDS PUMPS Wastewater

PERFORMANCE RATINGS

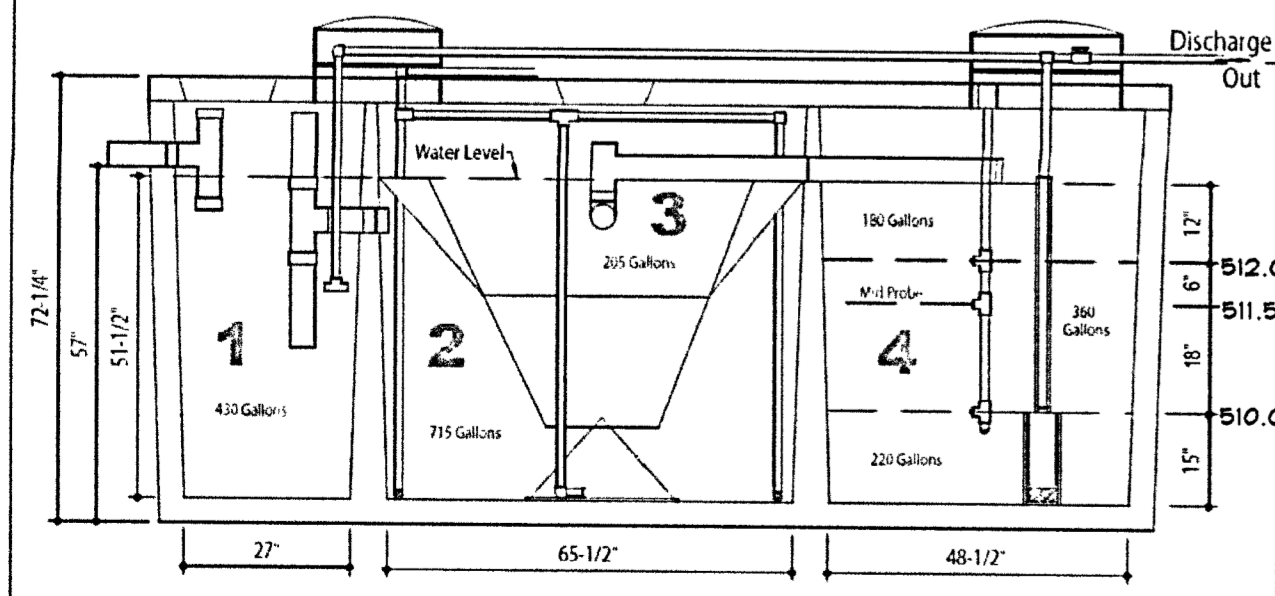
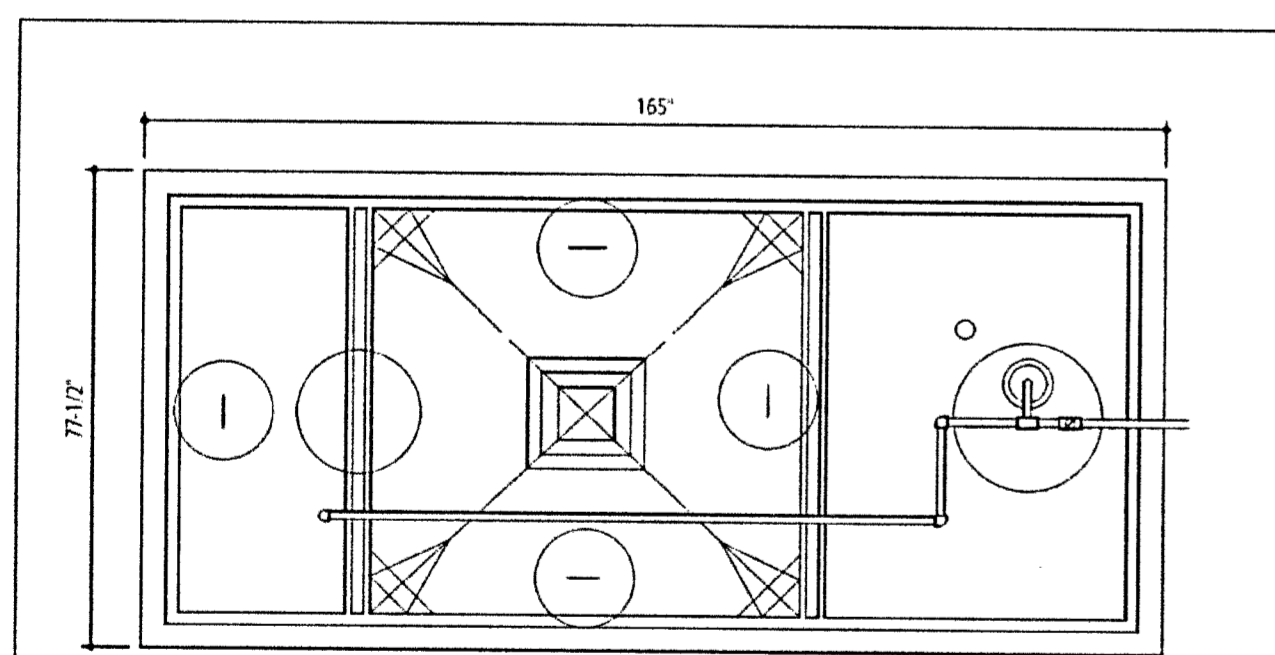
Total Head (ft. of water)	Gallons Per Minute	EP04	EP05
5	33	-	-
10	46	62	-
15	36	55	-
20	21	46	-
25	0	33	-
30	-	11	-

STATIC HEAD	5.0 (MIN)
FRICTION HEAD	3.2'
DISTAL END HEAD	0'
TOTAL DYNAMIC HEAD	8.2'
GALLONS PER MINUTE	48 GPM
DOSE	100.8 GAL
PUMP RUN TIME	2.1 MINS



TOTAL DYNAMIC HEAD CALCULATIONS

STATIC HEAD	
OFF FLOAT ELEVATION:	510.0'
HIGH POINT OF THE SYSTEM:	+ 515.0'
VERTICAL ELEVATION CHANGE:	5.0'
FRICTION HEAD	
FITTINGS:	13.8'
LENGTH OF PVC PIPE:	+ 10.0'
TOTAL LENGTH:	23.8'
23.8'/100 x 13.62 = 3.2' TOTAL FRICTION LOSS	
TOTAL HEAD	
VERTICAL ELEVATION CHANGE	5.0'
TOTAL FRICTION LOSS	3.2'
SYSTEM PRESSURE REQUIREMENTS	+ 0.0'
TOTAL DYNAMIC HEAD	8.2'



LOT 29 PUMP ELEVATIONS

OFF	ON	ALARM
510.0	511.5	512.0

DESIGN DATA & GENERAL NOTES
 [1] Concrete strength Fc=4000 psi, 28 days. Density = 150 pcf.
 [2] Concrete Reinforcing Steel: #4, #5, #6, #8, #10, #11, #14, #18, #22, #25, #29, #36, #42, #54, #60, #75, #90, #108, #126, #150, #180, #210, #252, #288, #336, #396, #468, #540, #630, #720, #810, #900, #1008, #1125, #1260, #1440, #1620, #1800, #2025, #2250, #2520, #2835, #3150, #3510, #3960, #4410, #4968, #5538, #6120, #6780, #7440, #8100, #8820, #9540, #10320, #11160, #12060, #13020, #14040, #15120, #16260, #17460, #18720, #20100, #21600, #23160, #24840, #26640, #28560, #30600, #32760, #35040, #37440, #40080, #42840, #45840, #49080, #52440, #56040, #59880, #64080, #68400, #73080, #78000, #83160, #88560, #94200, #100080, #106200, #112680, #119640, #127080, #134920, #143160, #151800, #160800, #170160, #180000, #190440, #201000, #211800, #222960, #235200, #247800, #260400, #274440, #288840, #303600, #318720, #334080, #349800, #365880, #382200, #398880, #415800, #433040, #450480, #468480, #486840, #505440, #524160, #543000, #562080, #581360, #600840, #620400, #640080, #660000, #680160, 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