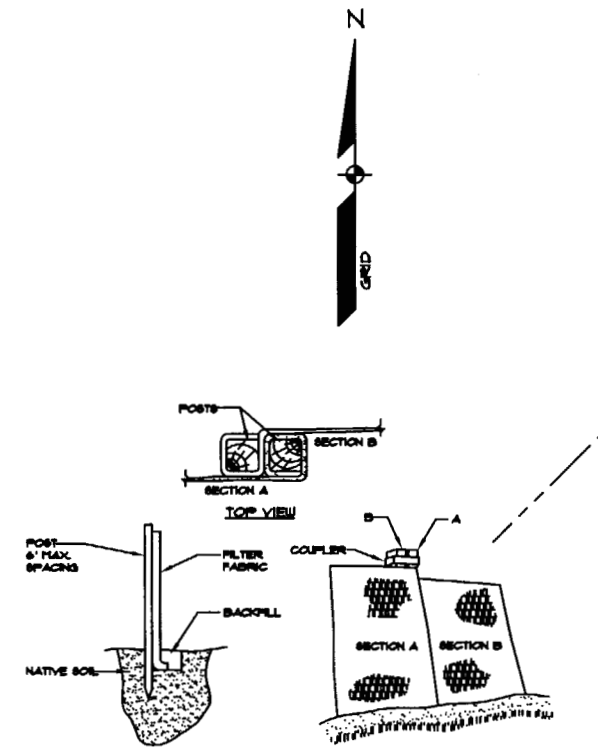
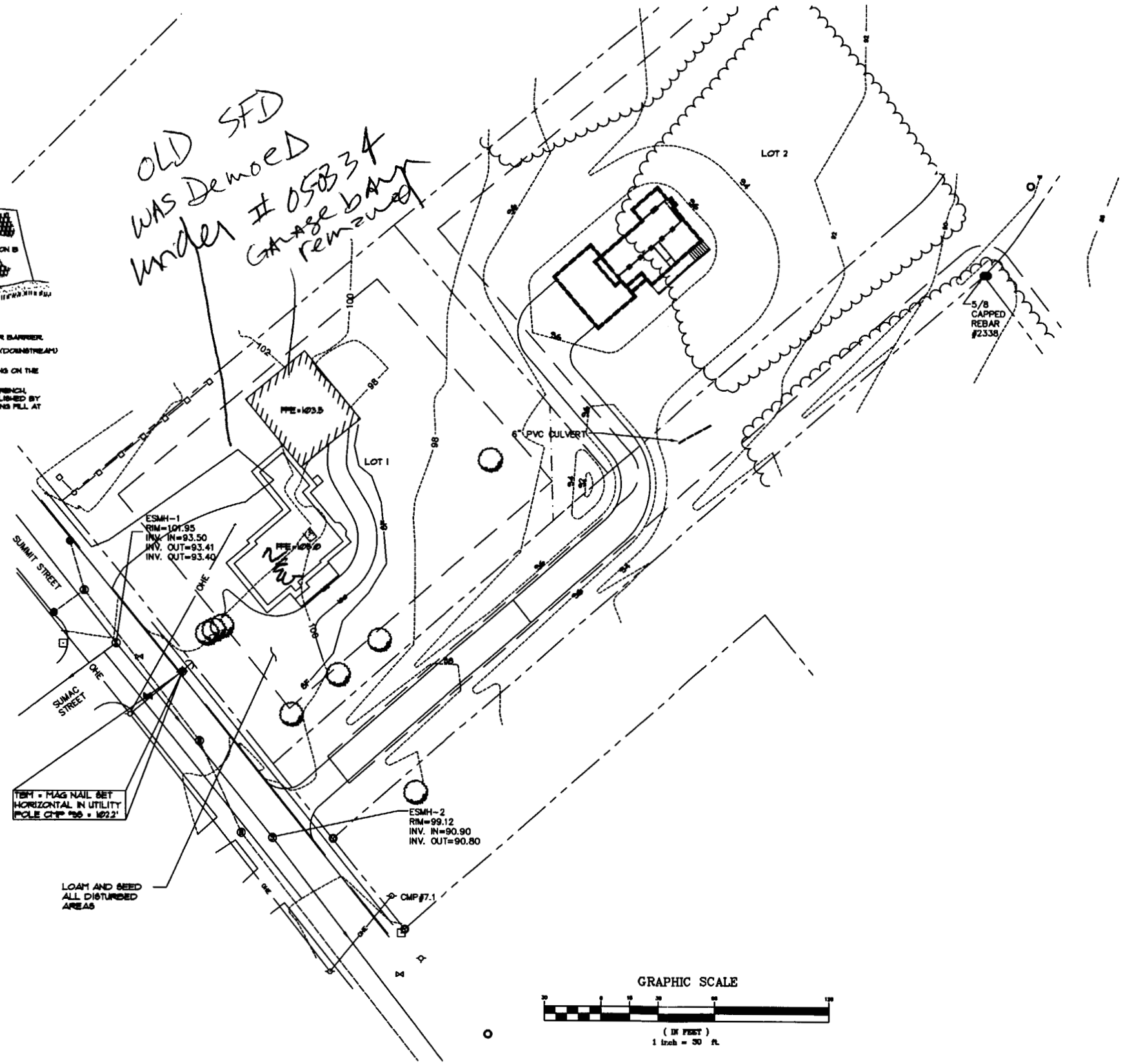
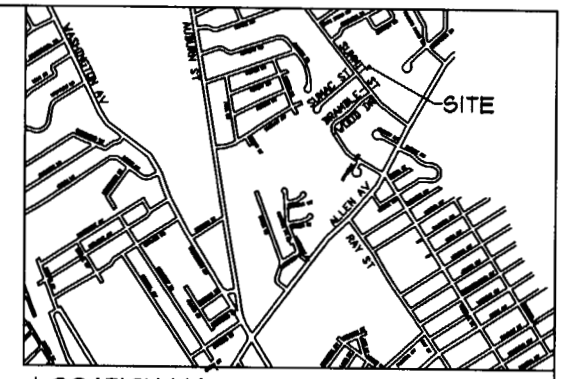


INSTALLATION:

1. EXCAVATE A 6"x 6" TRENCH ALONG THE LINE OF PLACEMENT FOR THE FILTER BARRIER.
2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH.
3. DRIVE POSTS INTO THE GROUND UNTIL APPROXIMATELY 2" OF FABRIC IS LYING ON THE TRENCH BOTTOM.
4. LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH. BACKFILL THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING THE FABRIC FLAP ON UNDISTURBED GROUND AND PILING AND TAMPING FILL AT THE BASE, BUT MUST BE ACCOMPANIED BY AN INTERCEPTION DITCH.
5. JOIN SECTION AS SHOWN ABOVE.
6. BARRIER SHALL BE MIRAFI SILT FENCE OR EQUAL.

FILTER BARRIER
NOT TO SCALE





LOCATION MAP N.T.S.

NOTE:
NEW BUILDING WILL UTILIZE THE EXISTING SANITARY SEWER, WATER AND OVERHEAD ELECTRIC LINES THAT SERVICE THE PREVIOUS BUILDING

LEGEND

EXISTING	DESCRIPTION	PROPOSED
	PROPERTY/ROW	
	SETBACK	
	BUILDING	
	EDGE PAVEMENT	
	CURBLINE	
	TREELINE	
124	CONTOURS	124
W	WATER	W
S	SEWER	S
SD	STORM DRAIN	SD
OHE	OVERHEAD ELEC. & TEL.	
	GATE VALVE	
	UTILITY POLE	
	CATCH BASIN	
	MANHOLE	
	CULVERT	SD
30.20	SPOT GRADE	+30.20
	DECIDUOUS TREE	
	CONIFEROUS TREE	
	SILT FENCE	SF
	BENCHMARK	
	RIP-RAP	
	FFE=FINISHED FLOOR ELEVATION	

REV:	BY:	DATE:	STATUS:
A	SMF	8-29-05	PROVIDE GRADING PLAN TO CLIENT

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

Sebago Technics
Engineering Expertise You Can Build On
One Chabot Street
Westbrook, Me 04098-1339
Tel (207) 856-0277

PROJECT NO.	FIELD BOOK	DESIGN	CHKD	DRAWN
04033	778	SMF	SMF	PLS

GRADING PLAN
OF:
WHITE PROPERTY: LOT 1
SUMMIT STREET
PORTLAND, MAINE
FOR RECORD OWNER:
PAUL G. WHITE
50 ALLEN AVENUE
PORTLAND, MAINE 04103

DATE	SCALE
8-24-05	1"=30'

SHEET 1 OF 1

04033GU2

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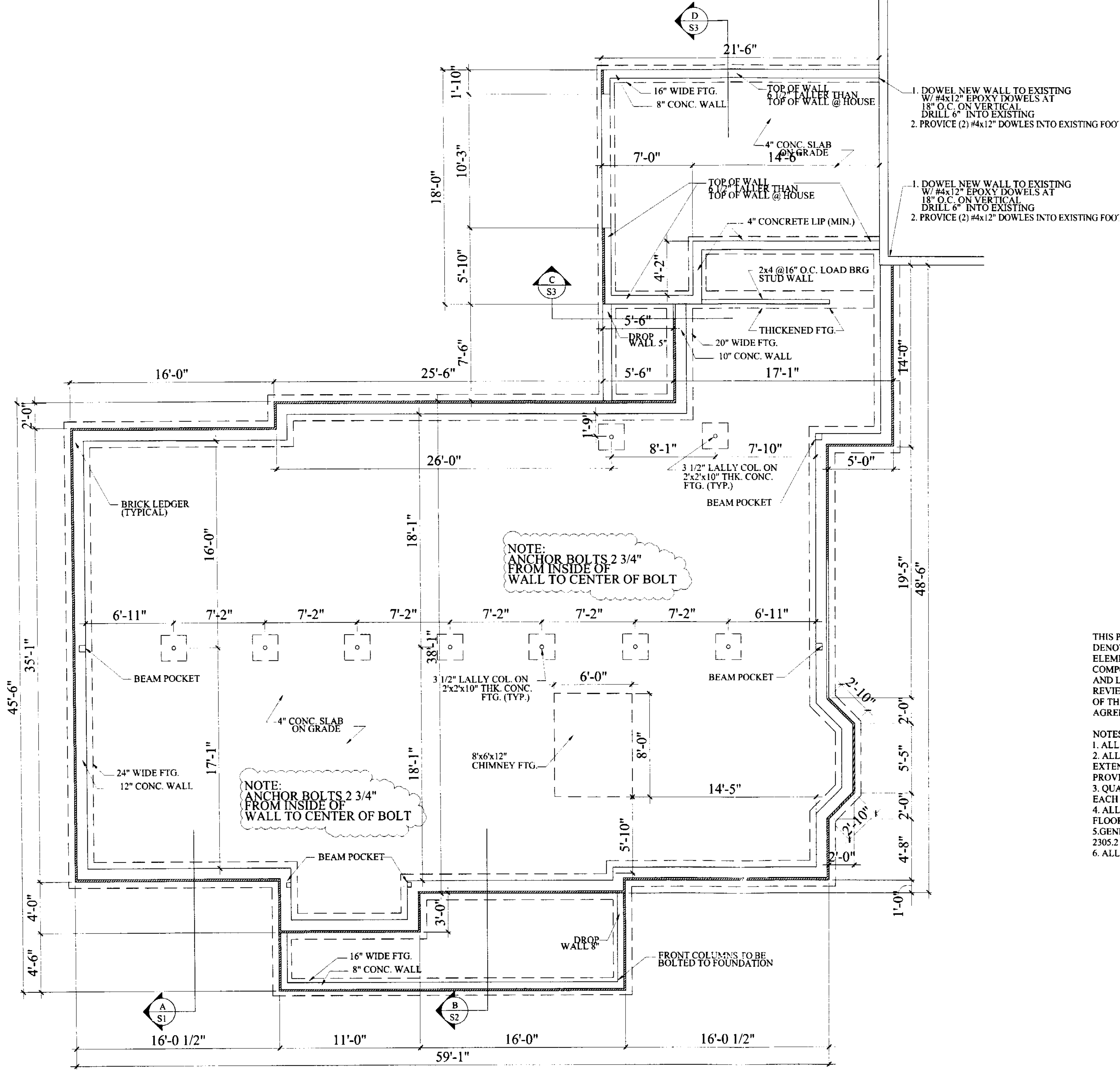

1 FOUNDATION PLAN
1/4" = 1'-0"

THIS P.E. REVIEW COVERES STRUCTURAL FRAMING MEMBERS DENOTED BY (ADP) ONYL. DESIGN AND DETAIL FOR FOUNDATION ELEMENTS,FRAMING CONNECTIONS (UNLESS OTHERWISE NOTED), COMPONENTS AND CLADDING, FINISHES, FLOOR PLAN LAYOUT, AND LIFE SAFTEY CODE REQUIREMENTS HAVE NOT BEEN REVIEWED AND ARE BEYOND THE PURVIEW OF THIS P.E. SEAL. USE OF THESE DRAWINGS INDICATES OWNER/CONTRACTOR AGREEMENT TO THESE TERMS.

NOTES:
1. ALL BEAMS ARE 1.9E PARALAMS UNLESS OTHERWISED NOTED.
2. ALL SPECIFIED HEADER POST ARE "JACK STUDS" & SHOULD EXTEND TO THE UNDERSIDE OF HEADER. CONCTRACTOR SHOULD PROVIDE (1) 2xKING STUD.
3. QUANTITY OF (2) 2x 'S BUILT UP POSTS ARE NUMBER REQ'D @ EACH END OF HEADER UNLESS OTHERWISE NOTED.
4. ALL NEW STRUCTURAL POSTS SHALL CONTINUE DOWN TO NEXT FLOOR LEVEL.
5.GENERAL CONCTRACTOR TO COMPLY WITH BOCA 1999 TABLE 2305.2 FASTENING SCHEDULE.
6. ALL STRUCTURAL STEEL TO BE ASTM 992 FY=50 KSI.

FOUNDATION PLAN

Builders Name and Address

CHAMBERLAIN CONSTRUCTION
1022 PORTLAND ROAD
SACO ME
PHONE: 282-7377

No.	Revision/Issue	Date
2	8/29/05 ENGINEER REV.	
	8/17/05 FINAL	

Project WHITE
Date 5/19/05
Scale 1/4"=1'-0"
Sheet A3

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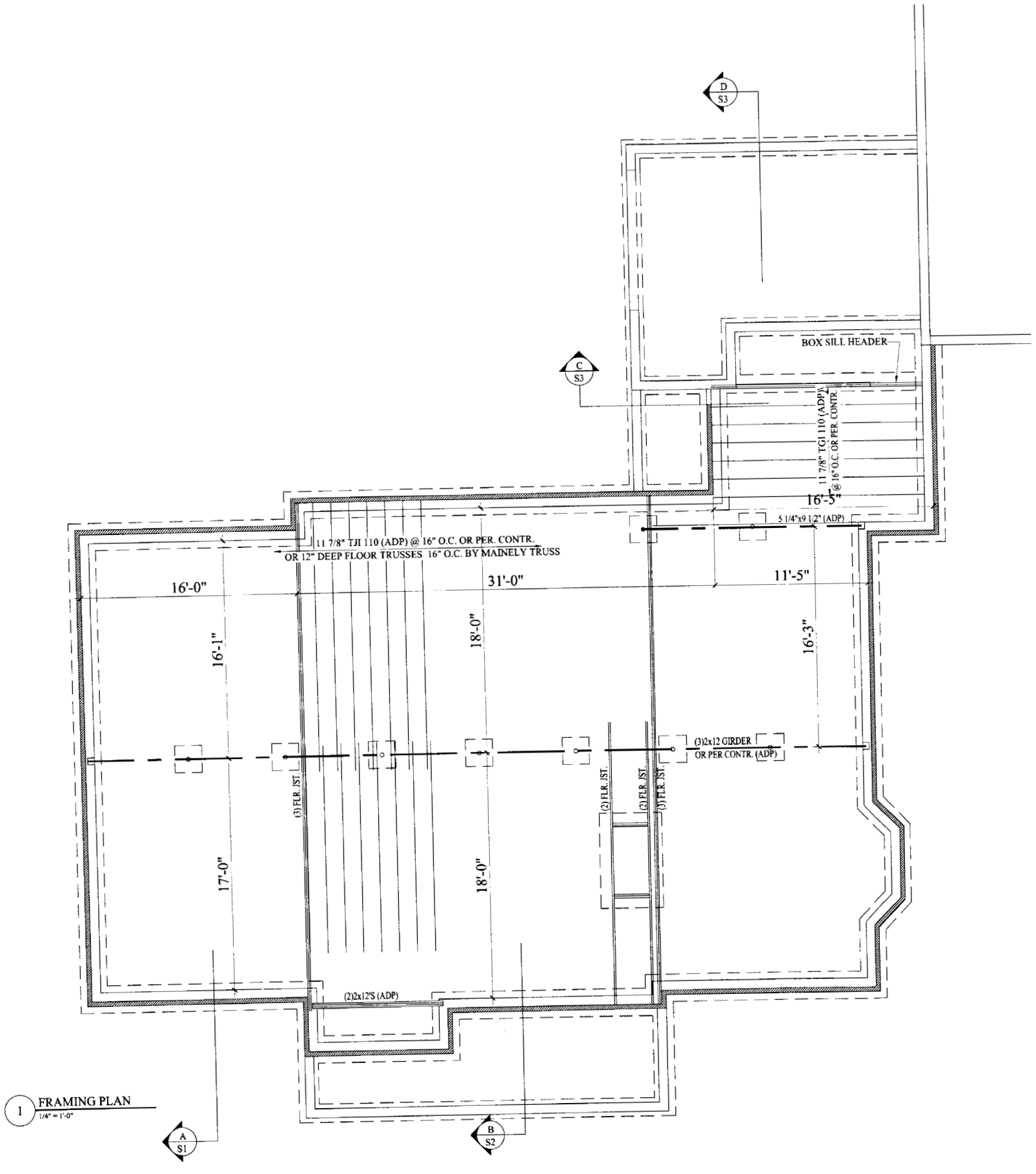

1 FRAMING PLAN
1/4" = 1'-0"

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THE DRAWINGS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THE DRAWINGS ARE NOT TO BE USED BY ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSES WHATSOEVER EXCEPT FOR THE SPECIFIED PROJECT WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT AND UNLESS THE STATUTORY FEE IS PAID. ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHT, TO THE DRAWINGS SHALL BE RETAINED BY THE ARCHITECT.

FIRST FLOOR FRAMING PLAN

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CHAMBERLAIN CONSTRUCTION
1022 PORTLAND ROAD
SACO ME
PHONE: 282-7377

No.	Revision/Issue	Date
2	8/29/05 ENGINEER	REV.
	8/17/05	
	FINAL	

Project WHITE
Date 5/19/05
Scale 1/4"=1'-0"
Sheet A4

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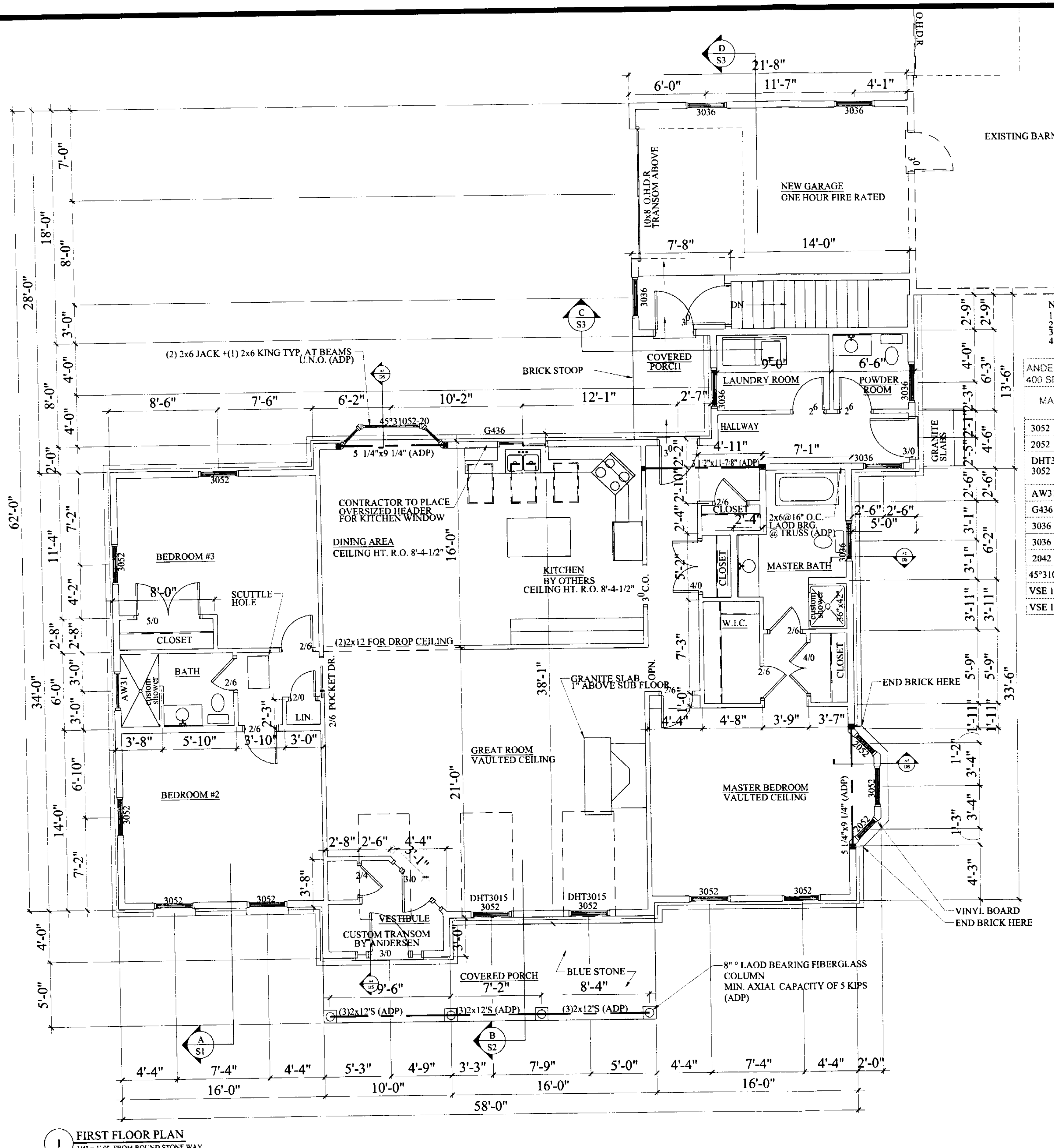

NOTE:
1. ALL WINDOWS ARE TO BE ANDERSEN 400 SERIES
2. ALL WINDOWS TO BE STAIN GRAINED
3. ALL WINDOWS ARE TO HAVE BRASS HARDWARE
4. ALL WINDOWS BOTTOM OF HEADER TO BE 6'-10" UNLESS TRANSOM ATTACHED

WINDOW SCHEDULE

ANDERSEN 400 SERIES

MARK	UNIT SIZE WIDTH	UNIT SIZE HEIGHT	TYPE	QYT.	GRANITE SILLS	GRANITE LINTELS	NOTES
3052	3'-1-7/8"	5'-4-7/8"	DBH	10	5 1/4"x3'-9 7/8"	8"x3'-9 7/8"	
2052	2'-1-5/8"	5'-4-7/8"	DBH	2	5 1/4"x2'-9 5/8"	8"x2'-9 5/8"	
DHT3015 3052	3'-1-7/8"	7'-0-3/16"	TRAN DBH	2	5 1/4"x3'-9 7/8"	8"x3'-9 7/8"	
AW31	2'-11-15/16"	2'-4-3/8"	AWN	1	5 1/4"x3'-7 15/16"	8"x3'-7 15/16"	
G436	3'-11-1/4"	3'-5-1/4"	GLIDER	1	5 1/4"x4'-7 1/4"	8"x4'-7 1/4"	
3036	3'-1-5/8"	3'-8-7/8"	DBH	4	5 1/4"x3'-9 5/8"	8"x3'-9 5/8"	
3036	3'-1-5/8"	3'-8-7/8"	DBH	3	NONE	NONE	3 1/2" CASING
2042	2'-1-5/8"	4'-4-7/8"	DBH	3	NONE	NONE	
45°31052-20	7'-7-13/16"	5'-6-3/4"	BAY	1	NONE	NONE	
VSE 108	21-1/2"	46-3/8"	SKY	2	NONE	NONE	STATIONARY
VSE 108	21-1/2"	46-3/8"	SKY	1	NONE	NONE	VENTING

THIS P.E. REVIEW COVERES STRUCTURAL FRAMING MEMBERS DENOTED BY (ADP) ONYL. DESIGN AND DETAIL FOR FOUNDATION ELEMENTS,FRAMING CONNECTIONS (UNLESS OTHERWISE NOTED), COMPONENTS AND CLADDING, FINISHES, FLOOR PLAN LAYOUT, AND LIFE SAFTEY CODE REQUIREMENTS HAVE NOT BEEN REVIEWED AND ARE BEYOND THE PURVIEW OF THIS P.E. SEAL. USE OF THESE DRAWINGS INDICATES OWNER/CONTRACTOR AGREEMENT TO THESE TERMS.

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FIRST FLOOR PLAN

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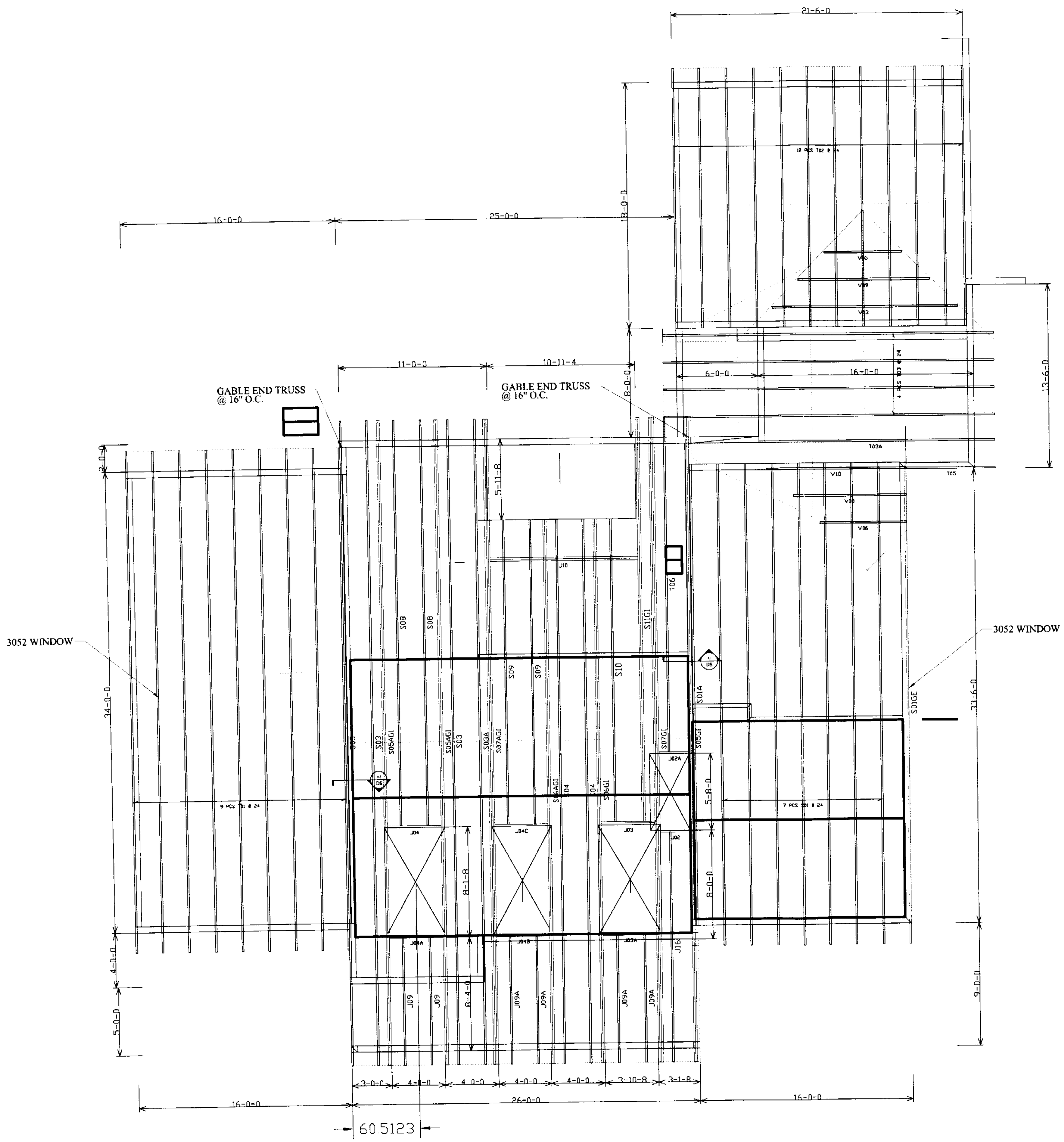
1022 PORTLAND ROAD
SACO ME
PHONE: 282-7377

No.	Revision/Issue	Date
2.	8/29/05 ENGINEER REV.	
	8/17/05	
	Finals	

Project WHITE
Date 5/19/05
Scale 1/4"=1'-0"
Sheet A5



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ROOF FRAMING TRUSS DESIGN

Builders Name and Address

CONSTRUCTION AND DEVELOPMENT MANAGEMENT, LLC

No.	Revision/Issue	Date
2	8/29/05 ENGINEER REV.	
	8/17/05	
	FINAL	

Project: WHITE
Date: 5/19/05
Scale: 1/4"=1'-0"
Sheet: A6

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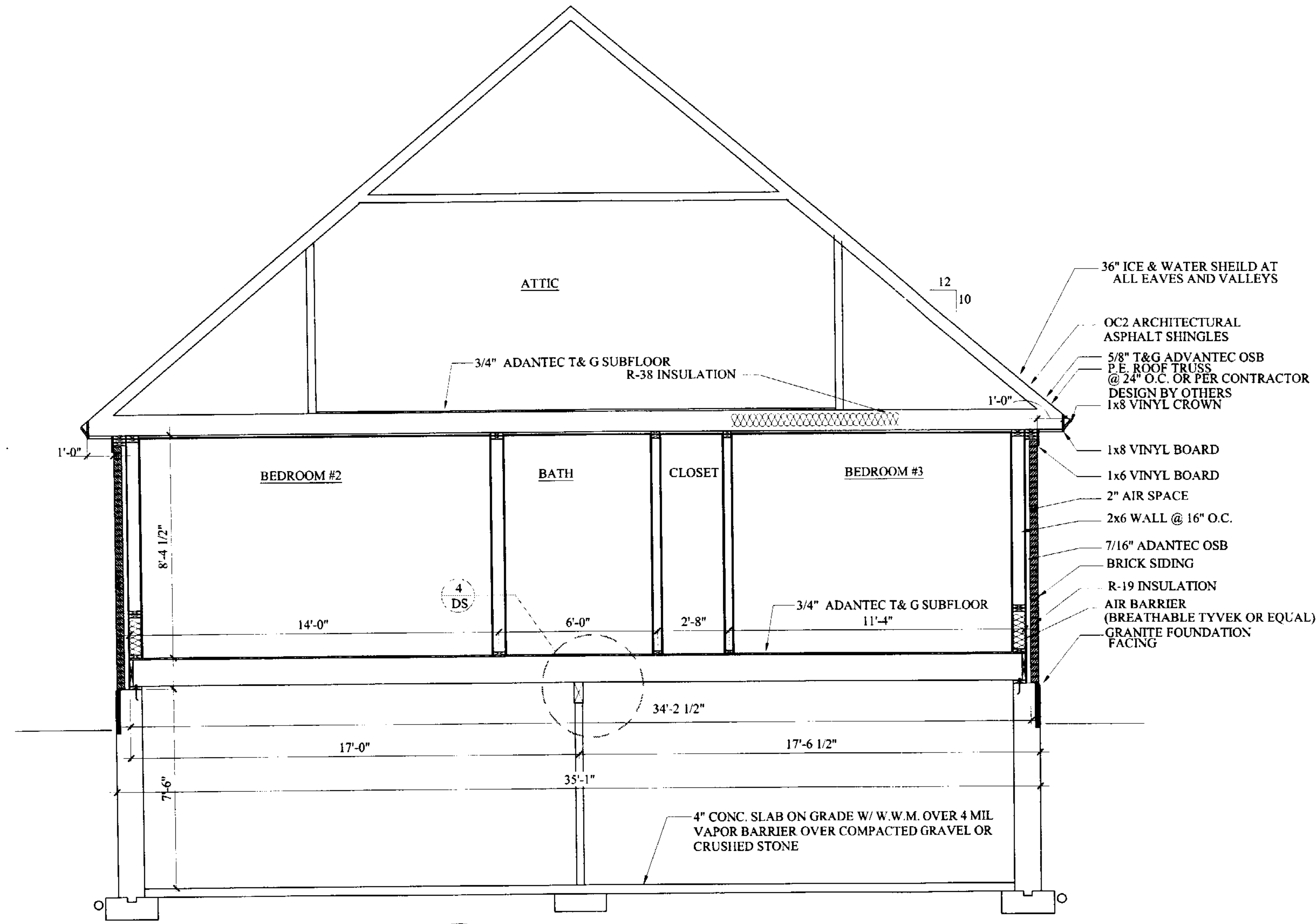

A BUILDING SECTION
3/8"=1'-0"

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PHONE: 282-7377

No.	Revision/Issue	Date
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	8/17/05 FINAL	

Project WHITE
Date 5/19/05
Scale 1/4"=1'-0"
Sheet S1

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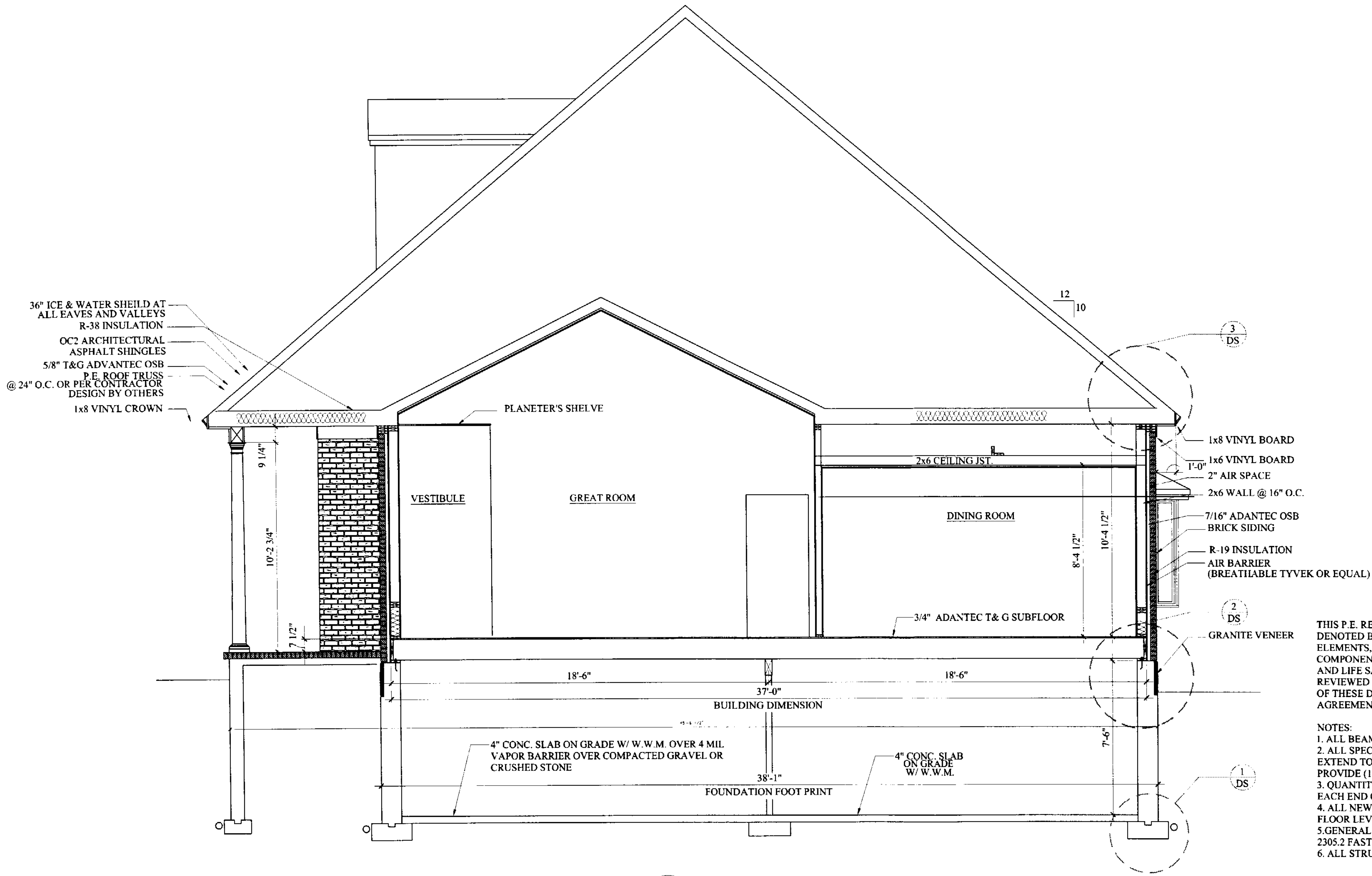

B **BUILDING SECTION**
3/8"=1'-0"

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	Final	

Project WHITE
Date 5/19/05
Scale 1/4"=1'-0"
Sheet S2

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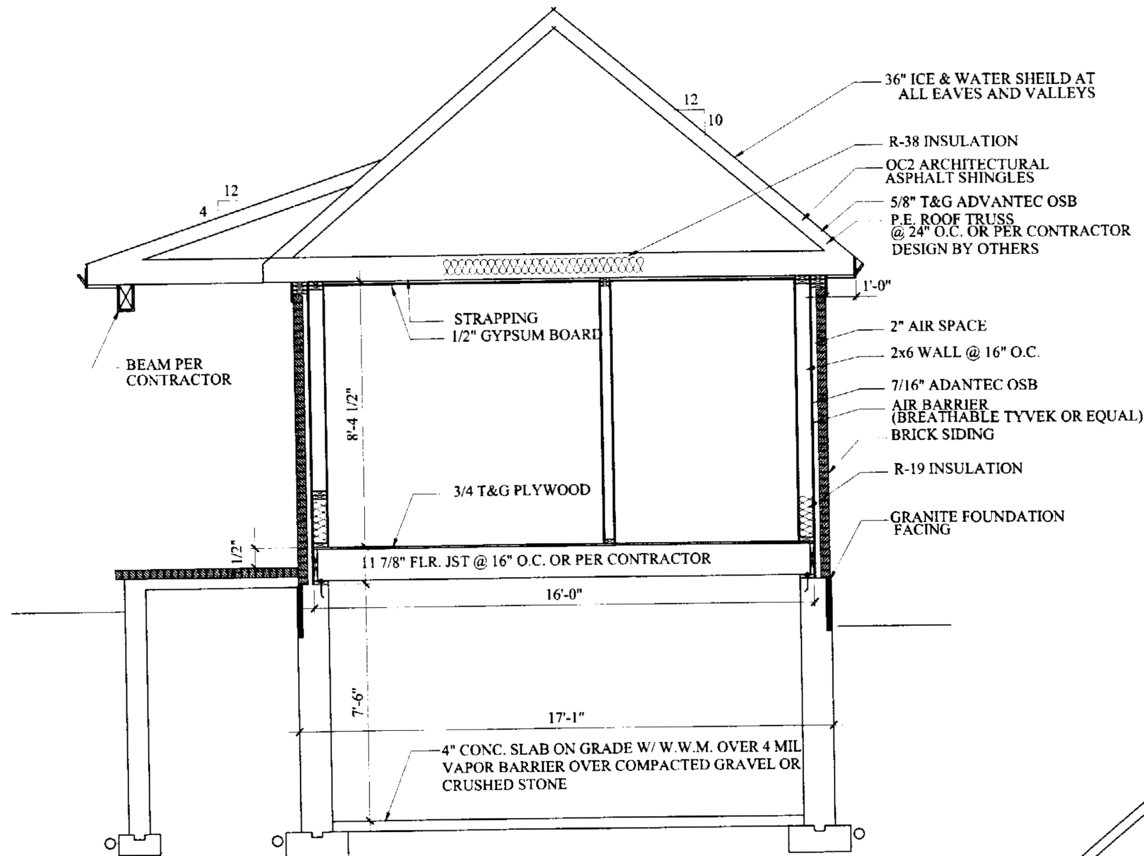
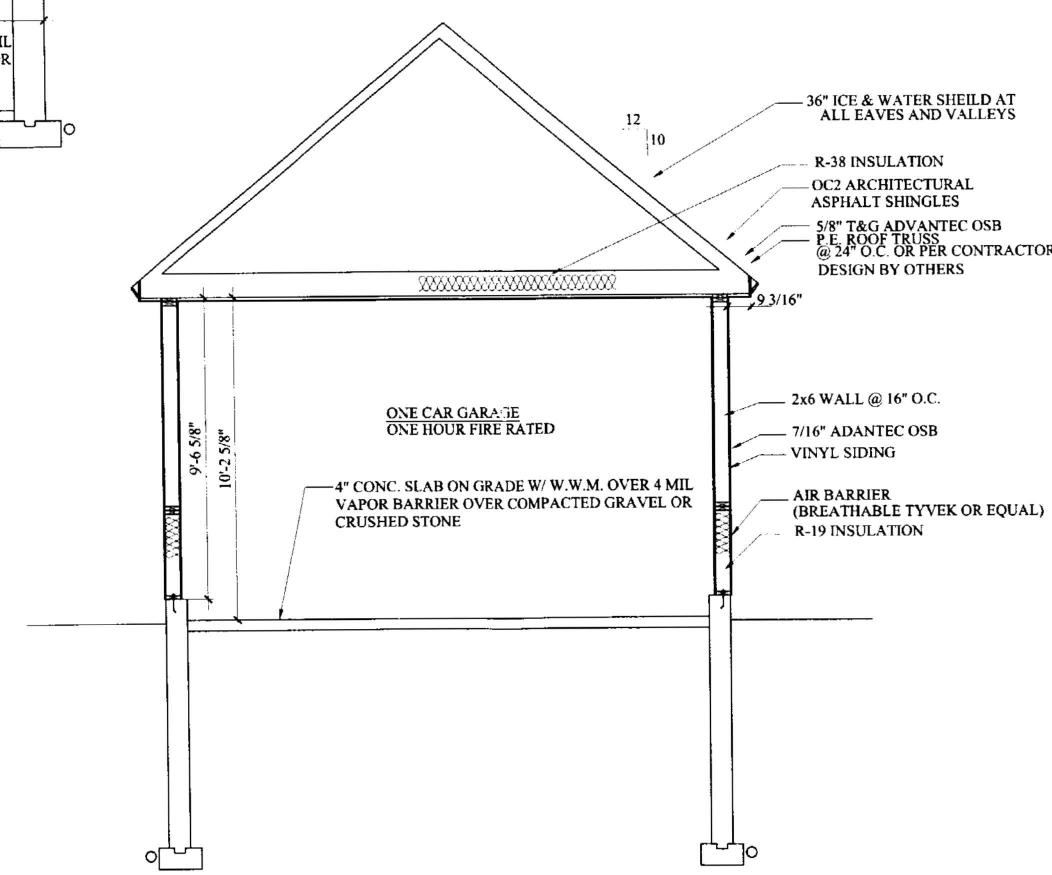


C **BUILDING SECTION**
3/8"=1'-0" BREEZWAY



D **BUILDING SECTION**
3/8"=1'-0" GARAGE

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BUILDING SECTIONS

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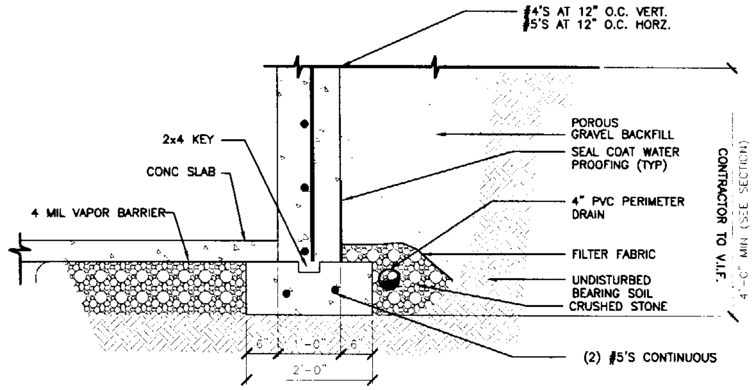
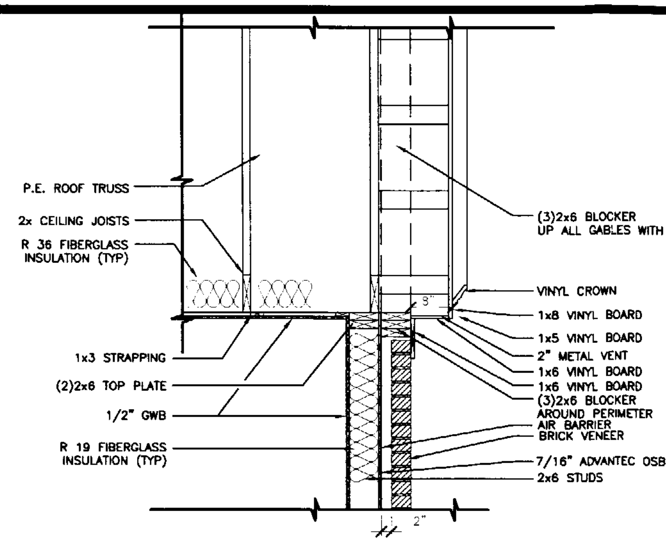
	8/17/05	
	FINAL	

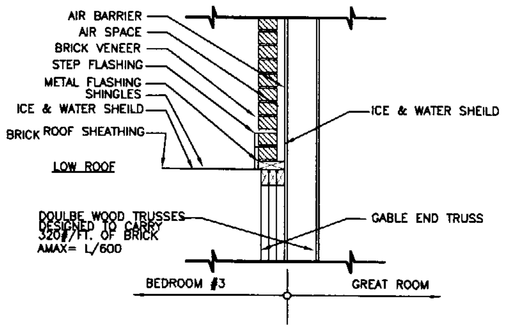
Project WHITE
Date 5/19/05
Scale 1/4"=1'-0"
Sheet S3



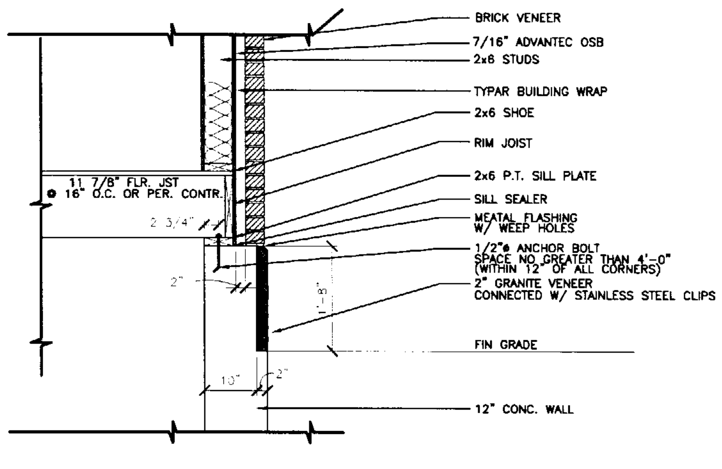
1 S1 FOOTING DETAIL
SCALE: 3/4"=1'-0"
NOTE:
SUBSITUTE FOOTING AND WALL SIZES WITH PLAN CALL-OUT.



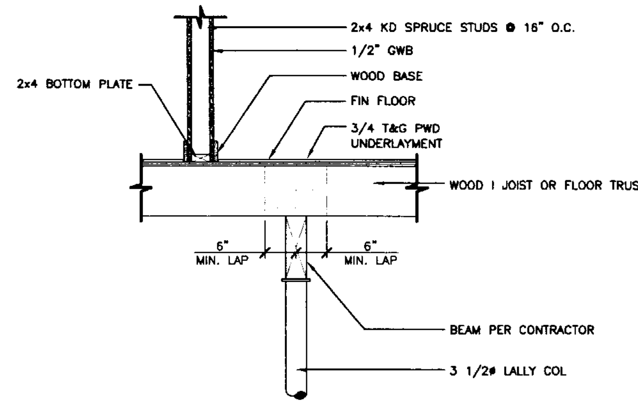
3A S1 RAKE DETAIL GABLE ENDS ONLY
SCALE: 3/4"=1'-0"
NOTE:
SUBSITUTE JOIST AND RAFTER SIZES WITH PLAN CALL-OUT.



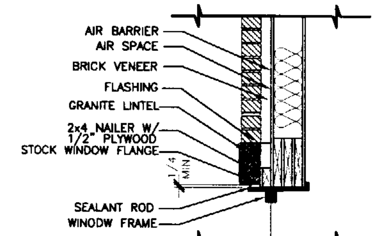
A1 A6 FLASHING DETAIL@ HIGH/LOW (GABLE)
SCALE: 3/4"=1'-0"
NOTE:
SUBSITUTE JOIST AND RAFTER SIZES WITH PLAN CALL-OUT.
BRICK NOTE:
BRICK VENEER W/ ADJUSTABLE TIES
1. TIE FOR EVERY 2.67 SQ. FT. OF WALL
AREA TIES TO BE FASTENED W/ EXTERIOR SCREWS TO WALL (TYP.)



2 S1 WALL BASE DETAIL
SCALE: 3/4"=1'-0"
NOTE:
SUBSITUTE JOIST AND RAFTER SIZES WITH PLAN CALL-OUT.



4 S1 COLUMN/GIRDER DETAIL
SCALE: 3/4"=1'-0"
NOTE:
1. SUBSITUTE JOIST AND RAFTER SIZES WITH PLAN CALL-OUT.
2. OPTIONAL FRAMING - CONTRACTOR TO VERIFY WALL HEIGHTS.



A2 A6 DETAIL @ WINDOWS
SCALE: 3/4"=1'-0"
NOTE:
SUBSITUTE JOIST AND RAFTER SIZES WITH PLAN CALL-OUT.
BRICK NOTE:
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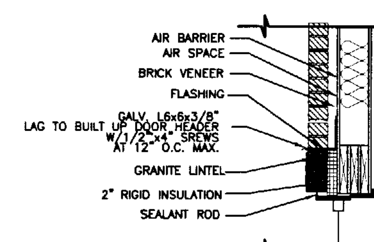

A4 A6 SECTION @ FRONT DOOR
SCALE: 3/4"=1'-0"
NOTE:
SUBSITUTE JOIST AND RAFTER SIZES WITH PLAN CALL-OUT.
BRICK NOTE:
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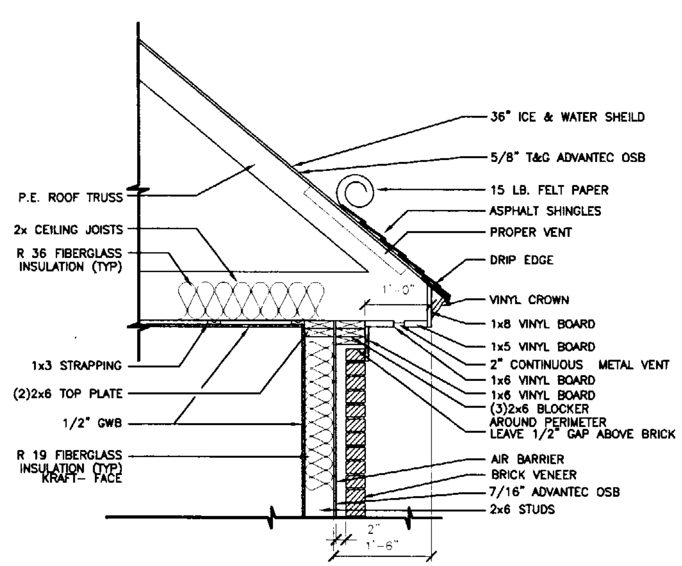
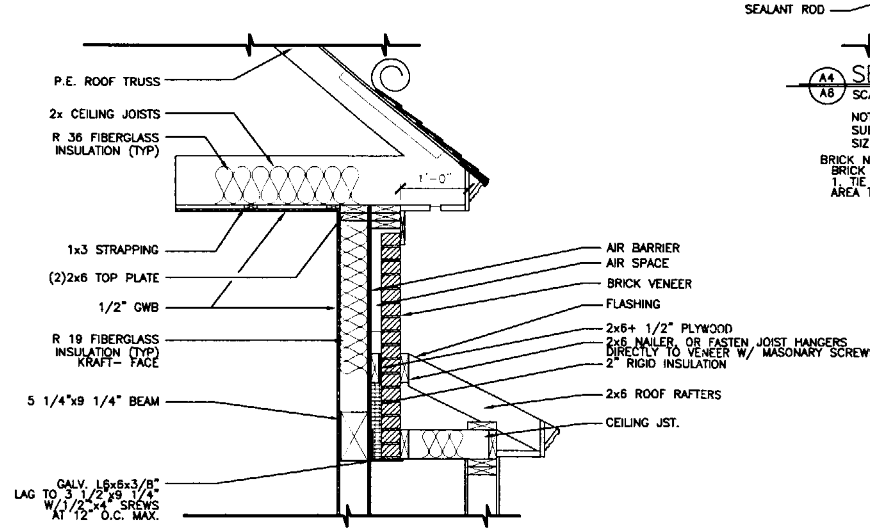
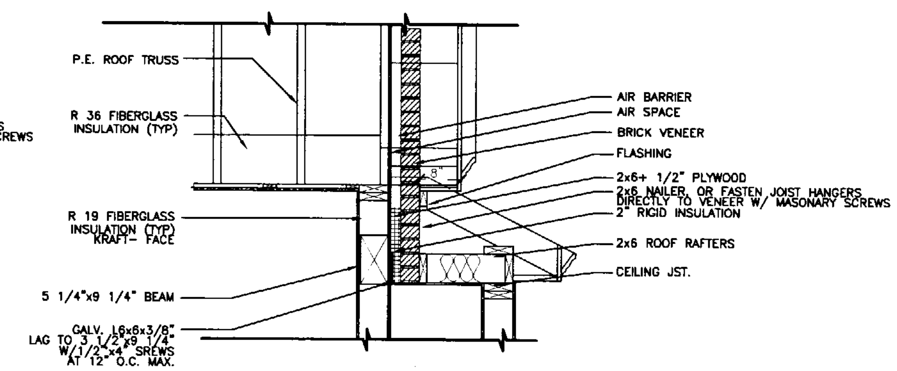


3 S1 SOFFIT DETAIL
SCALE: 3/4"=1'-0"
NOTE:
SUBSITUTE JOIST AND RAFTER SIZES WITH PLAN CALL-OUT.
BRICK NOTE:
BRICK VENEER W/ ADJUSTABLE TIES
1. TIE FOR EVERY 2.67 SQ. FT. OF WALL
AREA TIES TO BE FASTENED W/ EXTERIOR SCREWS TO WALL (TYP.)



A3 A6 SECTION @ WINDOW KITCHEN BUMP OUTS
SCALE: 3/4"=1'-0"
NOTE:
SUBSITUTE JOIST AND RAFTER SIZES WITH PLAN CALL-OUT.
BRICK NOTE:
BRICK VENEER W/ ADJUSTABLE TIES
1. TIE FOR EVERY 2.67 SQ. FT. OF WALL
AREA TIES TO BE FASTENED W/ EXTERIOR SCREWS TO WALL (TYP.)



A5 A6 SECTION @ MASTER BEDROOM WINDOW BUMP OUT
SCALE: 3/4"=1'-0"
NOTE:
SUBSITUTE JOIST AND RAFTER SIZES WITH PLAN CALL-OUT.
BRICK NOTE:
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1. TIE FOR EVERY 2.67 SQ. FT. OF WALL
AREA TIES TO BE FASTENED W/ EXTERIOR SCREWS TO WALL (TYP.)

Table R602.3(1)
Fastener Schedule for Structural Members

Description of Building Elements	Number and Type of Fastener (a,b,c,d)	Spacing of Fasteners
Joist to sill or girder, toe nail	3-8d	-
1" x 6" subfloor or less to each joist, face nail	2-8d	-
	2 staples, 1 ¾"	-
2" subfloor to joist or girder, blind and face nail	2-16d	-
Sole plate to joist or blocking, face nail	16d	16" o.c.
Top or sole plate to stud, end nail	2-16d	-
Stud to sole plate, toe nail	3-8d or 2-16d	-
Double studs, face nail	10d	24" o.c.
Double top plates, face nail	10d	24" o.c.
Sole plate to joist or blocking at braced wall panels	3-16d	16" o.c.
Double top plates, minimum 24nch offset of end joints, face nail in lapped area	8-16d	-
Blocking between joists or rafters to top plattoe nail	3-8d	-
Rim joist to top plate, toe nail	8d	6" o.c.
Top plates, laps at corners and intersections, face nail	2-10d	-
Built-up header, two pieces with ½" spacer	16d	16" o.c. along each edge
Continued header, two pieces	16d	16" o.c. along each ege
Ceiling joists to plate, toe nail	3-8d	-
Continuous header to stud, toe nail	4-8d	-
Ceiling joist, laps over partitions, face nail	3-10d	-
Ceiling joist to parallel rafters, face nail	3-10d	-
Rafter to plate, toe nail	2-16d	-
1" brace to each studand plate, face nail	2-8d	-
	2 staples, 1 ¾"	-
1" x 6" sheathing to each bearing, face nail	2-8d	-
	2 staples, 1 ¾"	-
1" x 8" sheathing to each bearing, face nail	2-8d	-
	3 staples, 1 ¾"	-
Wider than 1" x 8" sheathing to each bearing, face nail	3-8d	-
	4 staples, 1 ¼"	-
Built-up corner studs	10d	24" o.c.
Built-up girders and beams, 2inch lumber layers	10d	Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice.
2" planks	2-16d	At each bearing
Roof rafters to ridge, valley or hip rafters:	4-16d	-
Toe nail	3-16d	-
Face nail		
Rafter ties to rafters, face	3-8d	-

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DETAILS AND SPECIFICATIONS

Builders Name and Address
CHAMBERLAIN CONSTRUCTION
1022 PORTLAND ROAD
SACO ME
PHONE: 282-7377

No.	Revision/Issue	Date
2.	8/29/05 ENGINEER	REV.
	8/17/05	
	FINAL	

Project WHITE
Date 5/19/05
Scale 1/4"=1'-0"
Sheet DS

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nail	4 staples, 1 ¾"	-
Built-up corner studs	10d	24" o.c.
Built-up girders and beams, 2inch lumber layers	10d	Nail each layer as follows: 32" o.c. at top and bottom and staggered. Two nails at ends and at each splice.
2" planks	2-16d	At each bearing
Roof rafters to ridge, valley or hip rafters:	4-16d	-
Toe nail	3-16d	-
Face nail		
Rafter ties to rafters, face	3-8d	-

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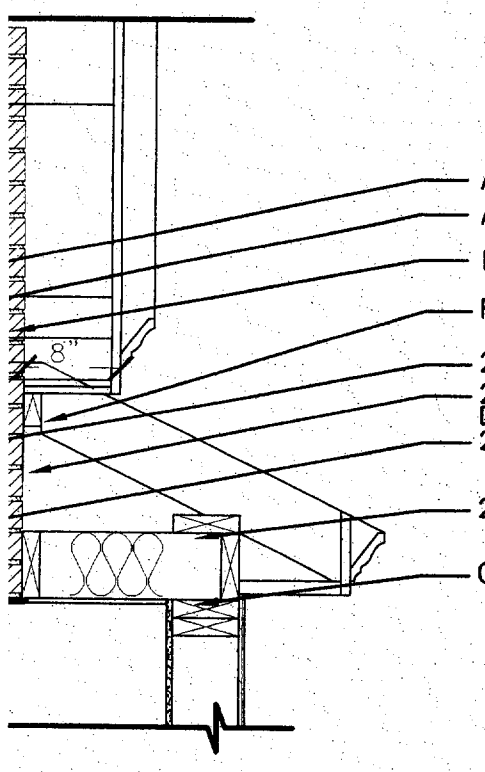
STATE OF MAINE
AARON
S.
WILSON
NO. 10429
9-1-05
REGISTERED
PROFESSIONAL ENGINEER

Stamp is also on A-3, A-4, A-5 JMB



STER BEDROOM WINDOW BUMP OUT

R

TIES
OF WALL
EXTERIOR SCREWS TO WALL (TYP.)

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CHAMBERLAIN CONSTRUCTION
1022 PORTLAND ROAD
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Project	WHITE	Sheet DS
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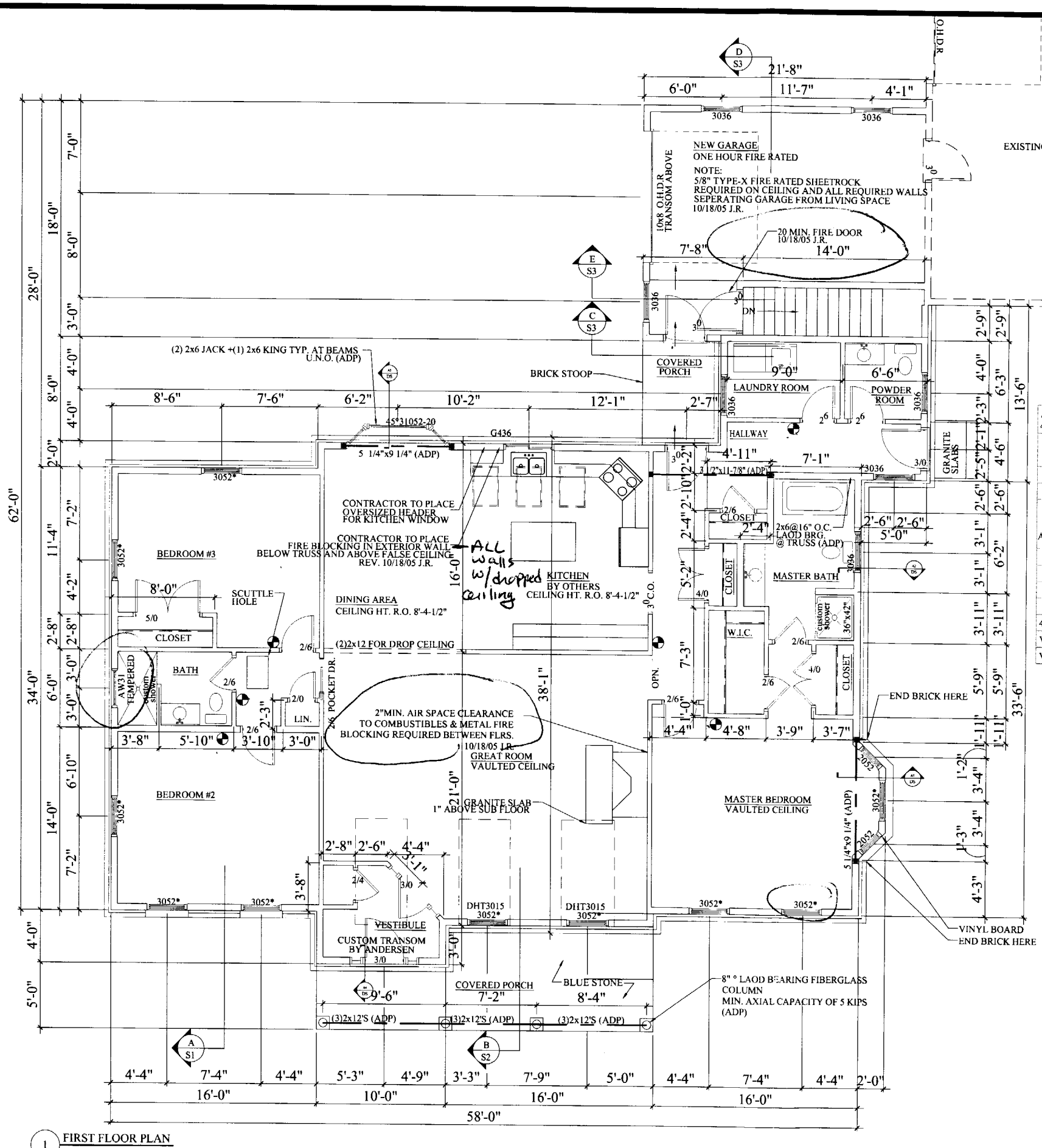

FIRST FLOOR PLAN
1/4" = 1'-0" FROM ROUND STONE WAY

NOTE:
1. ALL WINDOWS ARE TO BE ANDERSEN 400 SERIES
2. ALL WINDOWS TO BE STAIN GRAINED
3. ALL WINDOWS ARE TO HAVE BRASS HARDWARE
4. ALL WINDOWS BOTTOM OF HEADER TO BE 6'-10" UNLESS TRANSOM ATTACHED
5. 3052* DOUBLE HUNG WINDOW MEETS AND EXCEEDS EGRESS REQUIREMENTS *
A. CLEAR OPENABLE AREA OF 5.7 SQ. FT.
A. CLEAR OPENABLE WIDTH OF 20"
A. CLEAR OPENABLE HEIGHT OF 24"

ANDERSEN
400 SERIES

WINDOW SCHEDULE

MARK	UNIT SIZE		TYPE	QYT.	U. FACTOR	GRANITE SILLS	GRANITE LINTELS	NOTES
	WIDTH	HEIGHT						
TW3052* egress	3'-1-5/8"	5'-4-7/8"	DBH	10	0.28%	5 1/4"x3'-9 7/8"	8"x3'-9 7/8"	
TW2052	2'-1-5/8"	5'-4-7/8"	DBH	2	0.28%	5 1/4"x2'-9 5/8"	8"x2'-9 5/8"	
DHT3015 3052*	3'-1-5/8"	7'-0-3/16"	TRAN DBH	2	0.28%	5 1/4"x3'-9 7/8"	8"x3'-9 7/8"	
AW31 tempered	2'-11-15/16"	2'-4-3/8"	AWN	1	0.28%	5 1/4"x3'-7 15/16"	8"x3'-7 15/16"	
G436	3'-11-1/4"	3'-5-1/4"	GLIDER	1	0.28%	5 1/4"x4'-7 1/4"	8"x4'-7 1/4"	
TW3036	3'-1-5/8"	3'-8-7/8"	DBH	4	0.28%	5 1/4"x3'-9 5/8"	8"x3'-9 5/8"	
TW3036	3'-1-5/8"	3'-8-7/8"	DBH	3	0.28%	NONE	NONE	3 1/2" CASING
TW2042	2'-1-5/8"	4'-4-7/8"	DBH	3	0.28%	NONE	NONE	
45°31052-20	7'-7-13/16"	5'-6-3/4"	BAY	1	0.28%	NONE	NONE	
VSE 108	21-1/2"	46-3/8"	SKY	2		NONE	NONE	STATIONARY
VSE 108	21-1/2"	46-3/8"	SKY	1		NONE	NONE	VENTING

NOTES:
SMOKE ALARMS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS ◕

1. EACH SLEEPING AREA
2. OUTSIDE EACH SEPARATE SLEEPING AREA IN THE IMMEDIATE VICINITY OF THE BEDROOMS
3. ON EACH ADDITIONAL STORY OF THE DWELLING INCLUDING BASEMENTS
4. ALL SMOKE ALARMS SHALL BE INTERCONNECTED

* EGRESS WINDOW
10/18/05 J.R.

CITY OF PORTLAND, MAINE
APPROVED CONSTRUCTION PLANS
OCT 19 2005
SUPERSEDES ALL
PRIOR DATED PLANS

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
OCT 19 2005
RECEIVED

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FIRST FLOOR PLAN

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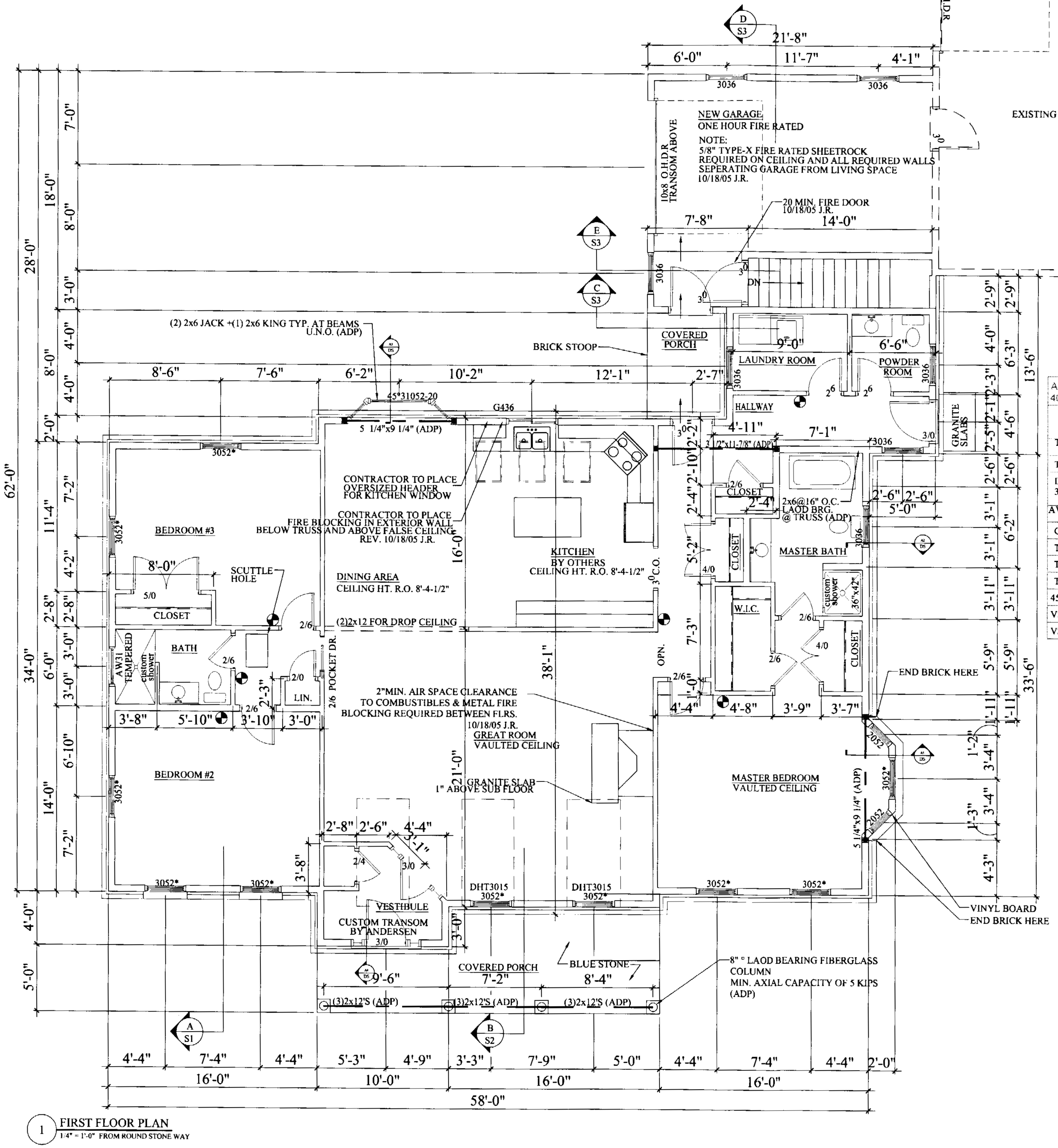
1022 PORTLAND ROAD
SACO ME
PHONE: 282-7377

2.	8/29/05 ENGINEER	REV.
	8/17/05	
	FINAL	
No.	Revision/Issue	Date

Project WHITE
Date 5/19/05
Scale 1/4"=1'-0"
Sheet A5



1 FIRST FLOOR PLAN
1/4" = 1'-0" FROM ROUND STONE WAY

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WINDOW SCHEDULE

ANDERSEN 400 SERIES

MARK	UNIT SIZE WIDTH	UNIT SIZE HEIGHT	TYPE	QYT.	U. FACTOR	GRANITE SILLS	GRANITE LINTELS	NOTES
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TW3036	3'-1-5/8"	3'-8-7/8"	DBH	3	0.28%	NONE	NONE	3 1/2" CASING
TW2042	2'-1-5/8"	4'-4-7/8"	DBH	3	0.28%	NONE	NONE	
45°31052-20	7'-7-13/16"	5'-6-3/4"	BAY	1	0.28%	NONE	NONE	
VSE 108	21-1/2"	46-3/8"	SKY	2		NONE	NONE	STATIONARY
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OCT 19 2005
SUPERSEDES ALL PRIOR DATED PLANS

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
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Builders Name and Address
CHAMBERLAIN CONSTRUCTION
1022 PORTLAND ROAD
SACO ME
PHONE: 282-7377

FIRST FLOOR PLAN

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No.	Revision/Issue	Date
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	8/17/05	
	FINAL	

Project: WHITE
Date: 5/19/05
Scale: 1/4"=1'-0"
Sheet: A5

REVISED 10/18/05 J.R.

CITY OF PORTLAND, MAINE
APPROVED CONSTRUCTION PLANS
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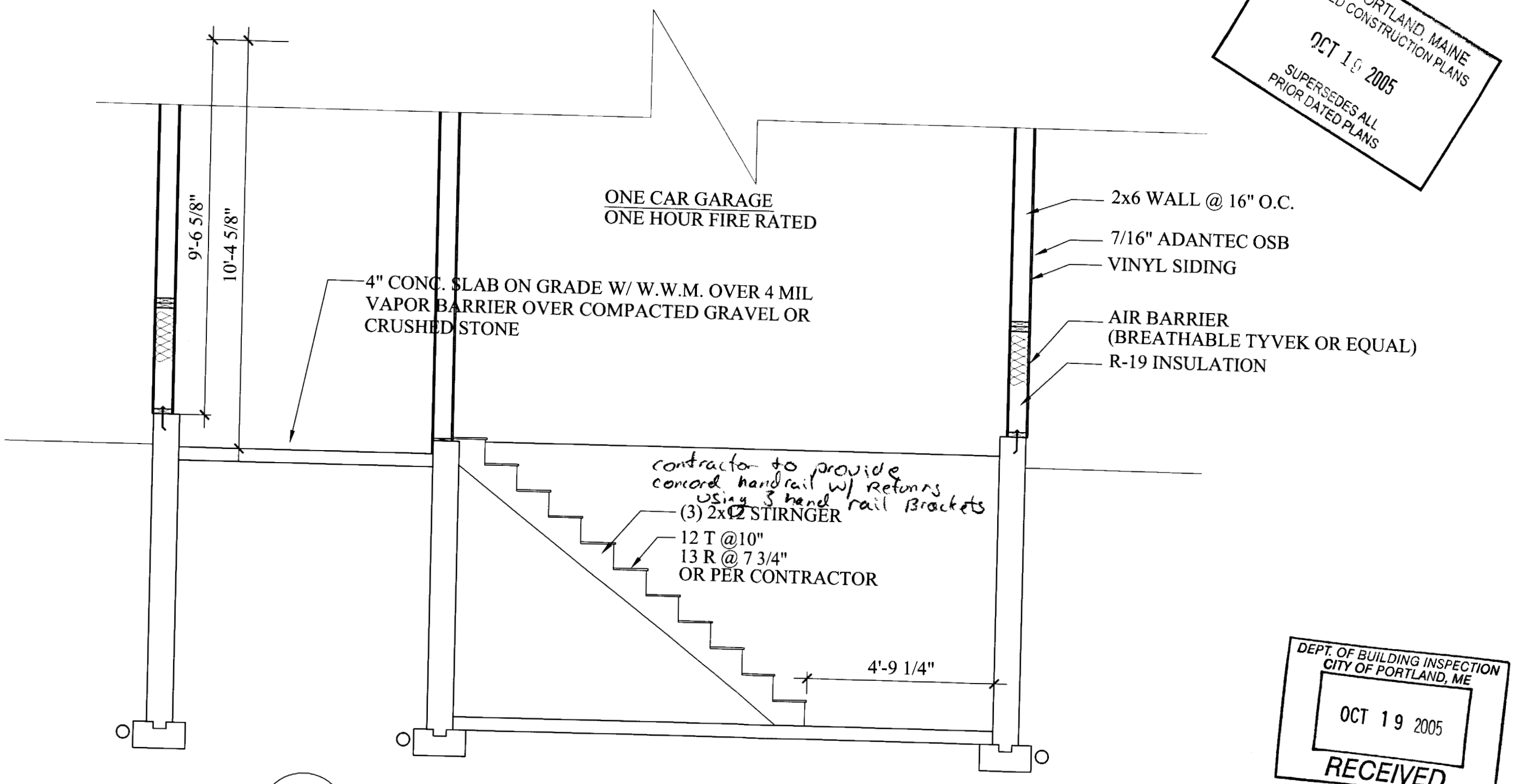

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
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E **BUILDING SECTION**

3/8"=1'-0" GARAGE

Product Data

VENTING SKYLIGHTS WITH FLAP

Model FSF			 104	 106	 304	 308	 606
Outside frame	(w x h)	in.	21½ x 38⅞	21½ x 46¾	30⅛ x 38⅞	30⅛ x 55	44¼ x 46¾
		mm	(548 x 978)	(548 x 1178)	(778 x 978)	(778 x 1398)	(1138 x 1178)
Finished frame dimension	(w x h)	in.	20½ x 37⅛	20½ x 45⅛	29⅛ x 37⅛	29⅛ x 53¾	43¼ x 45⅛
		mm	(521 x 945)	(521 x 1145)	(751 x 945)	(751 x 1365)	(1111 x 1145)
Rough opening for EDL/EDW/EDM	(w x h)	in.	21½ x 39	21½ x 46¾	30½ x 39	30½ x 55½	44¾ x 46¾
		mm	(548 x 991)	(548 x 1191)	(775 x 991)	(775 x 1411)	(1138 x 1191)
Rough opening for ECX Flat Roof Curb	(w x h)	in.	21½ x 46⅛	21½ x 54½	30½ x 46⅛	30½ x 63½	44¾ x 54½
		mm	(548 x 1172)	(548 x 1383)	(775 x 1172)	(775 x 1615)	(1138 x 1383)
Rough opening for EMX Roof Curb	(w x h)	in.	21½ x 41⅜	21½ x 49⅝	30½ x 41⅜	30½ x 58⅛	44¾ x 49⅝
		mm	(548 x 1051)	(548 x 1254)	(775 x 1051)	(775 x 1477)	(1138 x 1254)
Daylight area (glass)	(w x h)	in.	18¾ x 32⅝	18¾ x 40⅛	27¼ x 32⅝	27¼ x 49¼	41⅞ x 40⅛
Daylight area		sq. ft.	4.11	5.11	6.16	9.30	11.64
Ventilation area (opening)		sq. in.	13.30	13.30	19.50	19.50	29.10
Net weight (with lam. glass)		lbs.	44	52	58	77	94

TRUSS SERIES SKYLIGHTS

Model			FS 150	FS 156	VSE/VS 156
Outside frame	(w x h)	in.	23⅜ x 23⅞	23⅜ x 46⅞	23⅜ x 46⅞
		mm	(592 x 598)	(592 x 1178)	(592 x 1178)
Finished frame dimension	(w x h)	in.	22⅛ x 22⅛	22⅛ x 45⅝	22⅛ x 45⅝
		mm	(572 x 572)	(572 x 1151)	(572 x 1151)
Rough opening for EDL/EDW/EDM	(w x h)	in.	22⅛ x 22⅛	22⅛ x 45⅝	22⅛ x 45⅝
		mm	(572 x 572)	(572 x 1151)	(572 x 1151)
Rough opening for ECX Flat Roof Curb	(w x h)	in.	NOT	NOT	NOT
		mm	AVAILABLE	AVAILABLE	AVAILABLE
Rough opening for EMX Roof Curb	(w x h)	in.	NOT	NOT	NOT
		mm	AVAILABLE	AVAILABLE	AVAILABLE
Daylight area (glass)	(w x h)	in.	19¾ x 20¼	19¾ x 20¼	19¾ x 20¼
Daylight area		sq. ft.	2.78	5.86	5.11
Ventilation area (opening)		sq. ft.	N/A	N/A	4.27
Net weight (with lam. glass)		lbs.	29	48	63

ROOF WINDOWS

Model GPL			M08	S06
Outside frame	(w x h)	in.	30⅛ x 55	44¼ x 46⅞
		mm	(778 x 1397)	(1137 x 1178)
Rough opening	(w x h)	in.	31¼ x 55⅞	45¼ x 46¾
		mm	(794 x 1410)	(1149 x 1191)
Daylight area (glass)	(w x h)	in.	23¾ x 45⅞	37¾ x 36⅞
Daylight area		sq. ft.	7.4	9.6
Ventilation area (opening)		sq. ft.	11.34	18.27
Ventilation flap area		sq. in.	30.00	47.81
Net weight (with glass)		lbs.	105	125

Model GDL CABRIO			P19
Outside frame	(w x h)	in.	37⅞ x 99⅛
		mm	(941 x 2520)
Rough opening	(w x h)	in.	39⅝ x 101
		mm	(1000 x 2565)
Daylight area (upper)	(w x h)	in.	30 x 53¾
Daylight area (upper)		sq.ft.	11.1
Daylight area (lower)	(w x h)	in.	30 x 28⅞
Daylight area (lower)		sq.ft.	6.0
Ventilation area (upper sash section only)		sq.ft.	22.5
Ventilation flap area		sq.in.	36.7
Net weight (with glass)			310 lbs.

Note: In Combi applications with Model GDL, 4" frame-to-frame spacing is required for proper flashing.

NOTE: Roof windows are not designed to be used in combination with skylights.

ARCHITECTURAL SPECIFICATIONS

Architectural specifications for VELUX products are available at www.VELUXusa.com/specifications.

VELUX®

Testing Data

VENTING SKYLIGHTS

MODELS VSE AND VS TEST RESULTS

AIR INFILTRATION*	
1.57 psf	**75 Pa**
0.17 cfm/ft²	0.86 l/s/m²
WATER RESISTANCE*	
2.86 psf @ 5 US gal/ft²/h	**140 Pa** @ 3.4 l/m²/min
No Entry	No Entry

THERMAL PERFORMANCE
(Complete unit values.)
All thermal performance SHGC, Vt values for VELUX Skylights are NFRC certified, labeled and listed in the NFRC Product Directory, in accordance with NFRC procedures.

GLASS	Comfort (75) Tempered, Low-E', Argon Gas-filled	ComfortPlus (74) Laminated,Low-E', Argon Gas-filled
U-Factor (R-Factor)	0.38 (2.6)	0.40 (2.5)
SHGC	0.28	0.28
Vt	0.43	0.42

FADING PROTECTION %

GLAZING	CLASSICAL UV PROTECTION %	TOTAL FADING PROTECTION %
Comfort (75)	87%	75%
ComfortPlus (74)	99.9%	83%

STRUCTURAL PERFORMANCE**

	DOWNWARD LOAD	WIND UPLIFT
Laminated, Heat-Strengthened	12-75 (psf)	22-96 (psf)
Laminated, Tempered	108-182 (psf)	22-96 (psf)

* Tested in accordance with *AAMA/WDMA 1600/IS7 2000, VOLUNTARY SPECIFICATION FOR SKYLIGHTS.* Size 606 unit tested at a 15° roof pitch.

** Model VS tested in accordance with ICBO-Evaluation Services, Inc. *Acceptance Criteria for Sloped Glazing In Solariums, Patio Covers and Prefabricated Skylights.* See National Evaluation Service Report No. NER 216 and ICBO-ES Report ER-6075. Model VSE is WDMA *Hallmark* certified. See Hallmark Report No. 426.

MODELS QVE AND QVM TEST RESULTS

AIR INFILTRATION*	
1.57 psf	**75 Pa**
0.03 cfm/ft²	0.15 l/s/m²
WATER RESISTANCE*	
12.00 psf @ 5 US gal/ft²/h	**575 Pa** @ 3.4 l/m²/min
No Entry	No Entry

THERMAL PERFORMANCE
(Complete unit values.)
All thermal performance SHGC, Vt values for VELUX Skylights are NFRC certified, labeled and listed in the NFRC Product Directory, in accordance with NFRC procedures.

GLASS	Comfort (75) Tempered, Low-E', Argon Gas-filled	ComfortPlus (74) Laminated,Low-E', Argon Gas-filled
U-Factor (R-Factor)	0.39 (2.6)	0.41 (2.4)
SHGC	0.31	0.30
Vt	0.47	0.46

FADING PROTECTION %

GLAZING	CLASSICAL UV PROTECTION %	TOTAL FADING PROTECTION %
Comfort (75)	87%	75%
ComfortPlus (74)	99.9%	83%

STRUCTURAL PERFORMANCE*

	DOWNWARD LOAD	WIND UPLIFT
Laminated, Heat-Strengthened	520 (psf)	105 (psf)

* Tested in accordance with *AAMA/WDMA 1600/IS7 2000, VOLUNTARY SPECIFICATION FOR SKYLIGHTS.* Size 606 unit tested at a 15° roof pitch.

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CITY OF PORTLAND, ME
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Andersen WINDOWS • DOORS

Center of Glass Performance Data

Dual-Pane Glass (Air filled)	Visible Light[1]	SC[2]	SHGC[3]	RHG[4]	Fading Tuv[5]	Fading Tdw[6]	U-Factor[7]	%RH @center[8]	IGST[9]
Casement/Awning, Narroline® DH, Narroline Transom, 200 Series Tilt-Wash and Gliding Window	83%	0.91	0.79	189	63%	65%	0.49	38%	43°F
Casement/Awning Picture/Transom, 200 Series Fixed Units, Perma-Shield® Patio Door	82%	0.89	0.78	186	58%	61%	0.48	39%	44°F
Narroline® Gliding Patio Door	82%	0.89	0.78	186	58%	61%	0.49	38%	43°F

High-Performance™ Low-E Glass (Dual-pane, Low-E, argon blend filled)	Visible Light[1]	SC[2]	SHGC[3]	RHG[4]	Fading Tuv[5]	Fading Tdw[6]	U-Factor[7]	%RH @center[8]	IGST[9]
Casement/Awning, 400 Series Tilt-Wash, Narroline® DH, Narroline Transom, 200 Series Tilt-Wash and Gliding Window	73%	0.51	0.44	106	16%	33%	0.28	57%	54°F
Woodwright® Double-Hung	73%	0.50	0.44	104	16%	34%	0.28	57%	54°F
Casement/Awning Picture/Transom, Double-Hung Picture, Woodwright Picture/Transom, Circle Top,™ Oval, Circle, 200 Series Fixed Units, Perma-Shield® Patio Door, Roof Windows and Skylights	73%	0.50	0.43	103	16%	33%	0.28	57%	54°F
400 Series Gliding Windows	73%	0.51	0.44	105	17%	34%	0.28	57%	54°F
Frenchwood® Hinged, Outswing and Gliding Doors, Frenchwood Sidelights/ Transoms, Narroline Gliding Door	73%	0.50	0.43	104	16%	33%	0.28	57%	54°F
Flexiframe,® Arch, Springline,™ Full-Chord, Gothic, Elliptical, Octagon, Full-Round, Quarter Round	71%	0.48	0.42	100	14%	31%	0.28	57%	54°F

High-Performance Sun™ Low-E Glass (Dual-pane, tinted Low-E, argon blend filled)	Visible Light[1]	SC[2]	SHGC[3]	RHG[4]	Fading Tuv[5]	Fading Tdw[6]	U-Factor[7]	%RH @center[8]	IGST[9]
Casement/Awning, 400 Series Tilt-Wash, Narroline® DH, Narroline Transom, 200 Series Tilt-Wash and Gliding Window	40%	0.37	0.32	77	16%	24%	0.30	55%	53°F
Woodwright® Double-Hung	40%	0.36	0.31	76	15%	23%	0.30	55%	53°F
Casement/Awning Picture/Transom, Double-Hung Picture, Woodwright Picture/Transom, Circle Top,™ Oval, Circle, 200 Series Fixed Units, Perma-Shield® Patio Door, Roof Windows and Skylights	40%	0.36	0.31	75	15%	23%	0.31	55%	53°F
400 Series Gliding Windows	40%	0.36	0.31	77	16%	24%	0.30	55%	53°F
Frenchwood® Hinged, Outswing and Gliding Doors, Frenchwood Sidelights/ Transoms, Narroline Gliding Door	40%	0.36	0.31	76	15%	23%	0.30	55%	53°F
Flexiframe,® Arch, Springline,™ Full-Chord, Gothic, Elliptical, Octagon, Full-Round, Quarter Round	39%	0.34	0.30	73	13%	21%	0.30	55%	53°F

This data is accurate as of August 2, 2004. Due to ongoing product changes, updated test results, or new industry standards, this data may change over time.

"High-Performance" (HP Low-E) and "High-Performance Sun" (HP Sun) are Andersen trademarks for "Low-E" glass.

Based on NFRC testing/simulation conditions using Windows 5.2 and NFRC validated spectral data. 0°F outside temperature, 70°F inside temperature and a 15 mph wind.

1 Visible Transmittance (VT) measures how much light comes through the glass. The higher the value, from 0 to 1, the more daylight the glass lets in. Visible Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.

2 Shading Coefficient defines the amount of heat gain through the glass compared to a single lite of clear 1/8" (3 MM) glass.

3 Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass both directly transmitted and absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the glass.

4 Relative Heat Gain is the amount of heat gain through a glazing incorporating U-Factor and Solar Heat Gain Coefficient.

5 Transmission Ultra-Violet Energy (TUV). The transmission of short wave energy in the 300-380 nanometer portion of the solar spectrum. The energy can cause fabric fading.

6 Transmission Damage Function (TDW). The transmission of short wave energy in the 300-600 nanometer portion of the solar spectrum. The value includes both the UV and visible light energy that can cause fabric fading. This rating has also been referred to as the Krochmann Damage Function. This rating better predicts fading potential than UV transmission alone. The lower the Damage Function rating, the less transmission of short wave energy through the glass that can potentially cause fabric fading. Fabric type is also a key component of fading potential.

7 U-Factor is a measure of the heat loss through the total unit in BTU/hr deg.F sq. ft.

8 Percent relative humidity before condensation occurs at the center of glass, taken using center of glass temperature.

9 Inside glass surface temperatures are taken at the center of glass.

Contact your Andersen supplier for center of glass performance data on windows with laminated glass.

Canadian Product Performance Ratings

Tested to: CAN/CSA A440-M90 The mullion was tested and the deflection was within the maximum allowable of L/175 at positive and negative loads of 2600 Pa.

Units Tested	Air Tightness	Water Tightness	Windload Resistance and blow-out	Resistance to forced entry
CW16	A-3	B-7	C-4	Pass
P6050	Fixed	B-7	C-4	Not Applicable
AP421V	A-3	B-4	C-2	Pass
A3535	A-3	B-3	C-3	Pass
TW3862	A-2	B-3	C-2	Pass
NL3862	A-3	B-3	C-3	Pass
DHP5662	Fixed	B-3	C-3	Not Applicable
G65	A-3	B-3	C-3	Pass
Cir/Ovl 3048	Fixed	B-7	C-5	Not Applicable
ET8	Fixed	B-7	C-5	Not Applicable

Units Tested	Air Tightness	Water Tightness	Windload Resistance and blow-out	Resistance to forced entry
FX-12050	Fixed	B-7	C-5	Not Applicable
AF-608	Fixed	B-7	C-5	Not Applicable
SP-802	Fixed	B-7	C-5	Not Applicable
FWH6080AP	A-3	B-2	C-3	Pass
9080SASR	A-3	B-2	C-3	Pass
FWO6080AP	A-3	B-4	C-3	Not Applicable
3180	A-3	B-4	C-3	Not Applicable
FWC8080	A-3	B-3	C-1	Pass
160611	A-3	B-2	C-1	Pass
PSC8080	A-3	B-2	C-1	Pass

Andersen® NFRC Certified Total Unit Performance

Andersen windows and patio doors meet or exceed the following standards: WDMA, I.S.-2, W.D.M.A -I.S.-4 (WDMA license No. 129), Hallmark certified. Independent testing laboratories have performed all required tests on selected sizes. Compliance with these standards is confirmed by ongoing testing in Andersen Laboratories. These products are covered by one or more of the following patents: 4,999,950; 5,595,409; 5,775,749; 6,055,786; 5,544,450; 5,566,507; 5,582,445; 5,097,629; 5,740,632; 5,199,234; D312,565; D397,604; and D417,831. Other patents pending.

400 Series Windows Andersen® Product Type		Without Grilles HP Low-E	Without Grilles HP Sun Low-E	With Grilles HP Low-E	With Grilles HP Sun Low-E
Casement 24" x 48" size	U-Factor[1]	0.33	0.35	0.34	0.36
	SHGC[2]	0.33	0.24	0.30	0.22
	VT[3]	0.53	0.29	0.48	0.26
Awning 48" x 24" size	U-Factor[1]	0.33	0.35	0.34	0.36
	SHGC[2]	0.32	0.24	0.30	0.22
	VT[3]	0.52	0.28	0.47	0.26
Casement/Awning Picture Window 48" x 48" size	U-Factor[1]	0.30	0.32	0.32	0.34
	SHGC[2]	0.36	0.26	0.33	0.24
	VT[3]	0.59	0.32	0.53	0.29
Woodwright® Double-Hung 36" x 60" size	U-Factor[1]	0.33	0.35	0.34	0.36
	SHGC[2]	0.32	0.24	0.29	0.22
	VT[3]	0.51	0.28	0.46	0.25
Woodwright® Picture Window 48" x 48" size	U-Factor[1]	0.30	0.32	0.32	0.34
	SHGC[2]	0.33	0.24	0.31	0.22
	VT[3]	0.54	0.29	0.48	0.26
Woodwright® Transom 48" x 48" size	U-Factor[1]	0.30	0.32	0.32	0.34
	SHGC[2]	0.35	0.25	0.32	0.23
	VT[3]	0.57	0.31	0.51	0.28
Tilt-Wash Double-Hung 36" x 60" size	U-Factor[1]	0.34	0.36	0.35	0.35
	SHGC[2]	0.32	0.24	0.29	0.22
	VT[3]	0.51	0.28	0.45	0.25
Tilt-Wash Double-Hung Picture 48" x 48" size	U-Factor[1]	0.33	0.35	0.35	0.37
	SHGC[2]	0.35	0.25	0.32	0.24
	VT[3]	0.56	0.30	0.50	0.27
Tilt-Wash Double-Hung Transom 48" x 48" size	U-Factor[1]	0.33	0.35	0.34	0.36
	SHGC[2]	0.35	0.25	0.32	0.23
	VT[3]	0.56	0.31	0.50	0.27
Gliding Window 60" x 36" size	U-Factor[1]	0.36	0.38	0.38	0.39
	SHGC[2]	0.30	0.23	0.28	0.21
	VT[3]	0.46	0.25	0.41	0.22
Elliptical Window 48" x 48" size	U-Factor[1]	0.30	0.32	0.32	0.34
	SHGC[2]	0.36	0.26	0.33	0.24
	VT[3]	0.59	0.32	0.53	0.29
Circle Top™ Casement 48" x 48" size	U-Factor[1]	0.30	0.32	0.32	0.34
	SHGC[2]	0.36	0.26	0.33	0.24
	VT[3]	0.59	0.32	0.53	0.29
Circle/Oval 48" x 48" size	U-Factor[1]	0.30	0.32	0.32	0.34
	SHGC[2]	0.36	0.26	0.33	0.24
	VT[3]	0.59	0.32	0.53	0.29
Arch Windows 48" x 48" size	U-Factor[1]	0.31	0.33	0.32	0.34
	SHGC[2]	0.36	0.26	0.33	0.24
	VT[3]	0.59	0.32	0.53	0.29
Flexiframe® 48" x 48" size	U-Factor[1]	0.30	0.32	0.32	0.34
	SHGC[2]	0.36	0.26	0.33	0.24
	VT[3]	0.59	0.32	0.53	0.29
Springline™ Window 48" x 48" size	U-Factor[1]	0.34	0.36	0.36	0.38
	SHGC[2]	0.35	0.26	0.32	0.24
	VT[3]	0.55	0.30	0.50	0.27
		Tempered		Tempered Laminated	
Skylight 48" x 48" size	U-Factor[1]	0.56	0.58	0.55	0.57
	SHGC[2]	0.41	0.30	0.40	0.29
	VT[3]	0.68	0.37	0.66	0.36
Venting Roof Window 48" x 48" size	U-Factor[1]	0.53	0.55	0.53	0.55
	SHGC[2]	0.38	0.28	0.37	0.27
	VT[3]	0.62	0.34	0.61	0.33
Stationary Roof Window 48" x 48" size	U-Factor[1]	0.53	0.55	0.53	0.54
	SHGC[2]	0.39	0.28	0.38	0.27
	VT[3]	0.64	0.35	0.62	0.34

400 Series Doors Andersen® Product Type		Tempered w/o Grilles HP Low-E	Tempered w/o Grilles HP Sun Low-E	Tempered w/ Grilles HP Low-E	Tempered w/ Grilles HP Sun Low-E
Frenchwood® Gliding Patio Door 72" x 82" size	U-Factor[1]	0.33	0.35	0.35	0.36
	SHGC[2]	0.29	0.21	0.26	0.20
	VT[3]	0.44	0.24	0.39	0.21
Frenchwood® Hinged Patio Door 38" x 82" size	U-Factor[1]	0.33	0.34	0.34	0.36
	SHGC[2]	0.27	0.20	0.25	0.19
	VT[3]	0.41	0.22	0.36	0.20
Frenchwood® Outswing Patio Door 38" x 82" size	U-Factor[1]	0.34	0.36	0.36	0.37
	SHGC[2]	0.27	0.20	0.25	0.19
	VT[3]	0.41	0.22	0.36	0.20
Frenchwood® Patio Door Sidelight 16" x 82" size	U-Factor[1]	0.35	0.36	0.35	0.36
	SHGC[2]	0.20	0.15	0.19	0.15
	VT[3]	0.27	0.15	0.26	0.14
Frenchwood® Patio Door Transom 38" x 14" size	U-Factor[1]	0.34	0.35	0.34	0.35
	SHGC[2]	0.16	0.13	0.15	0.12
	VT[3]	0.20	0.11	0.19	0.10

200 Series Windows & Doors Andersen® Product Type		Without Grilles Clear Dual-Pane	Without Grilles Low-E	With Grilles Clear Dual-Pane	With Grilles Low-E
Casement 24" x 48" size	U-Factor[1]	0.48	–	0.49	–
	SHGC[2]	0.57	–	0.52	–
	VT[3]	0.59	–	0.54	–
Awning 48" x 24" size	U-Factor[1]	0.48	–	0.49	–
	SHGC[2]	0.56	–	0.52	–
	VT[3]	0.58	–	0.53	–
Tilt-Wash Double-Hung 36" x 60" size	U-Factor[1]	0.49	0.34	0.50	0.35
	SHGC[2]	0.56	0.33	0.51	0.30
	VT[3]	0.58	0.51	0.52	0.46
Narroline® Double-Hung 36" x 60" size	U-Factor[1]	0.50	0.35	0.50	0.36
	SHGC[2]	0.58	0.33	0.52	0.31
	VT[3]	0.60	0.53	0.53	0.47
Narroline® Transom 48" x 48" size	U-Factor[1]	0.47	0.31	0.48	0.33
	SHGC[2]	0.59	0.34	0.54	0.31
	VT[3]	0.62	0.55	0.56	0.49
Gliding Window 60" x 36" size	U-Factor[1]	0.50	0.35	0.50	0.36
	SHGC[2]	0.57	0.33	0.51	0.30
	VT[3]	0.58	0.52	0.52	0.46
Fixed, Transom, Circle Top™ 48" x 48" size	U-Factor[1]	0.47	0.31	0.48	0.33
	SHGC[2]	0.60	0.34	0.54	0.32
	VT[3]	0.62	0.55	0.56	0.49
		Tempered w/o Grilles		Tempered w/ Grilles	
Narroline® Gliding Patio Door 72" x 82" size	U-Factor[1]	0.49	0.32	0.50	0.35
	SHGC[2]	0.60	0.35	0.54	0.32
	VT[3]	0.62	0.55	0.56	0.49
Perma-Shield® Gliding Patio Door 72" x 82" size	U-Factor[1]	0.47	0.31	0.48	0.33
	SHGC[2]	0.60	0.34	0.54	0.32
	VT[3]	0.62	0.56	0.56	0.50

Please contact your Andersen supplier for performance values on products with patterned glass.
Skylight and roof window values are based upon NFRC 200 procedures using a 20° slope angle.
Grilles=Finelight or Full Divided light.
"High-Performance" (HP Low-E) and "High-Performance Sun" (HP Sun) are Andersen trademarks for "Low-E" glass.

1 U-Factor defines the amount of heat loss through the total unit in BTU/hr sq. ft.° F. The lower the value, the less heat is lost through the entire product.

2 Solar Heat Gain Coefficient (SHGC) defines the fraction of solar radiation admitted through the glass both directly transmitted and absorbed and subsequently released inward. The lower the value, the less heat is transmitted through the product.

3 Visible Transmittance (VT) measures how much light comes through the product (glass and frame). The higher the value, from 0 to 1, the more daylight the product lets in. Visible Transmittance is measured over the 380 to 760 nanometer portion of the solar spectrum.

This data is accurate as of August 2, 2004. Due to ongoing product changes, updated test results, or new industry standards, this data may change over time.

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