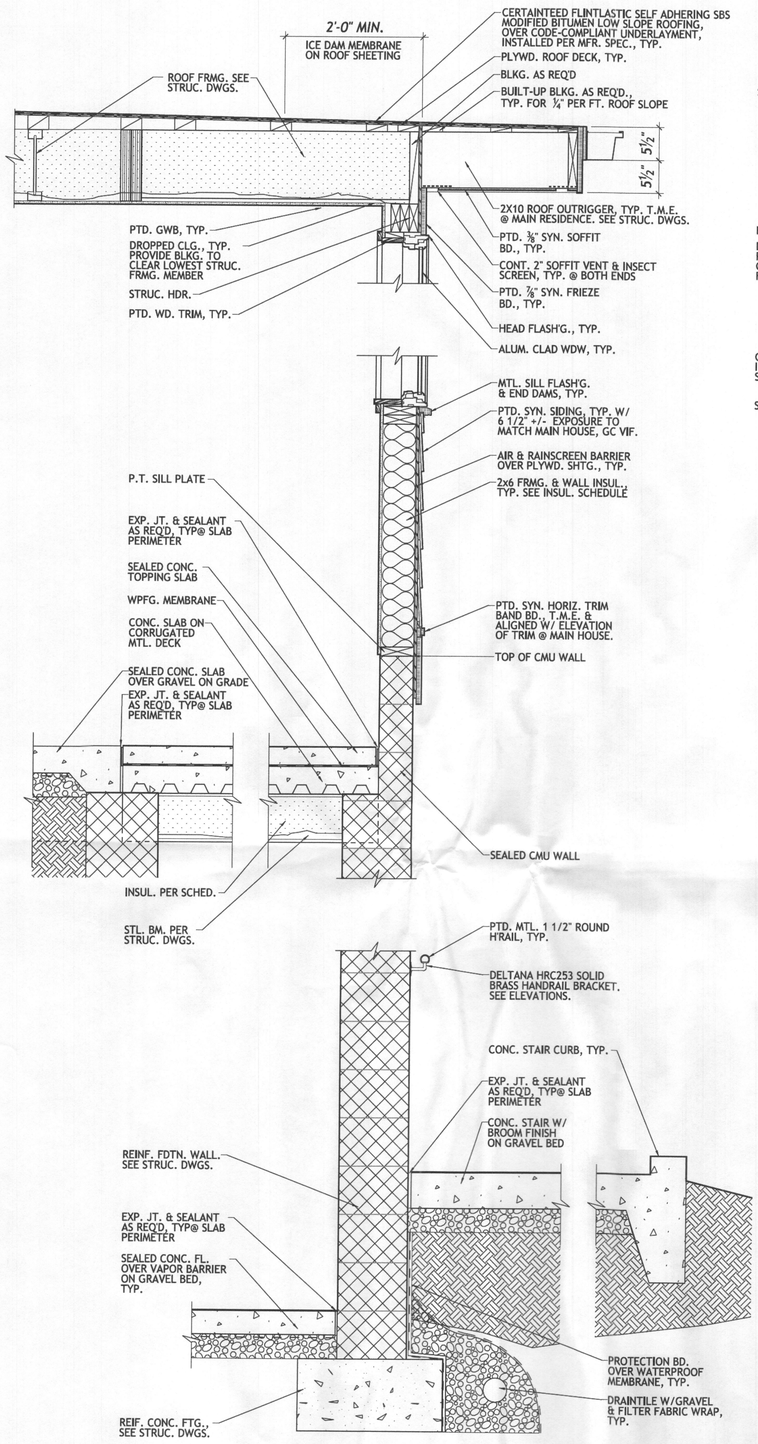
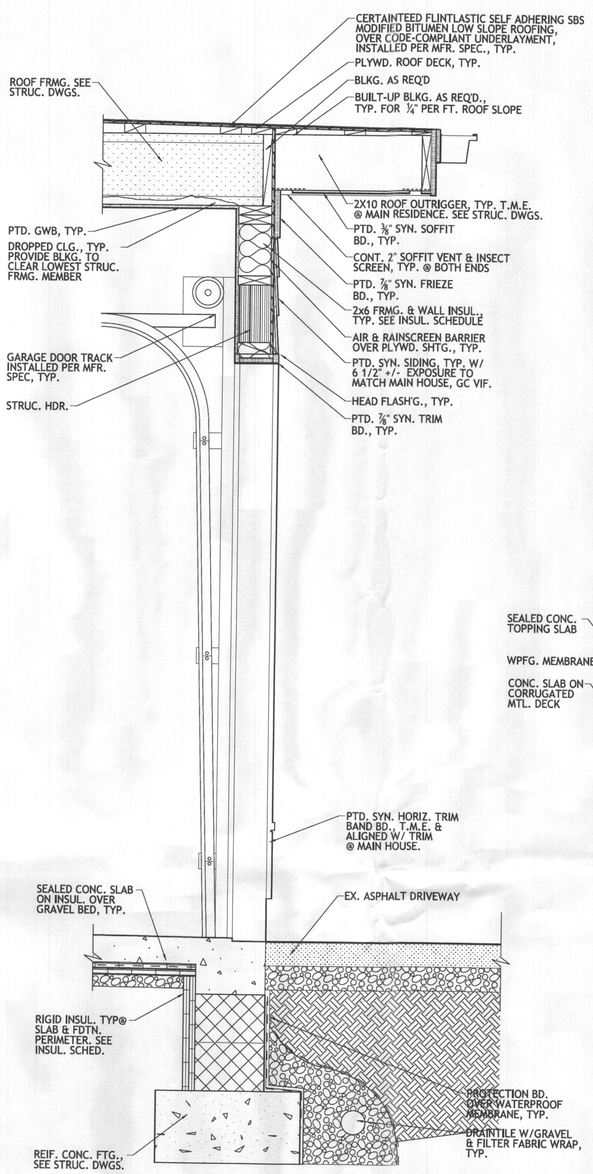


3 A401 TYP. WALL SECTION
SCALE: 1" = 1'-0"



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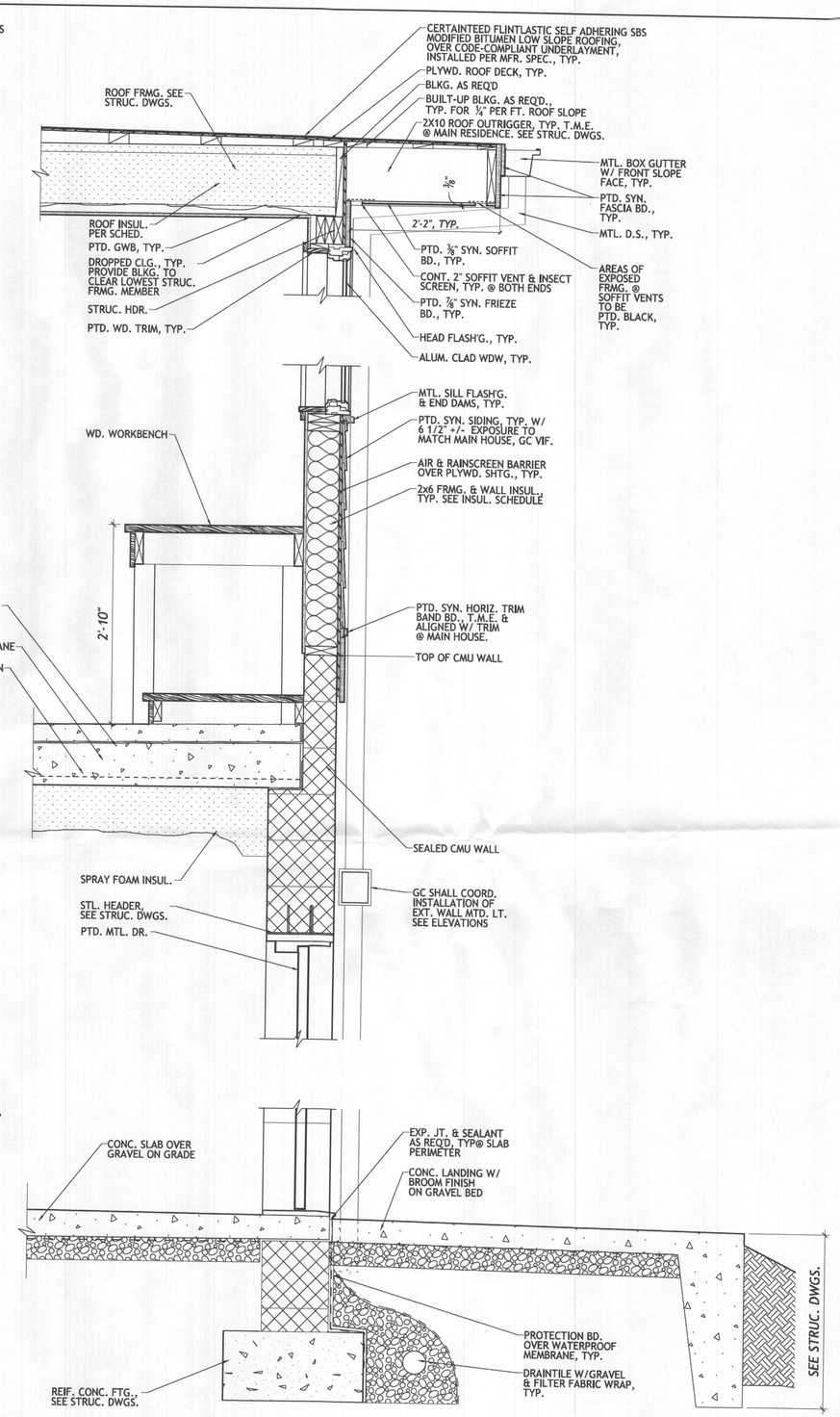

1 A401 WALL SECTION @ STOR. RM. DR.
SCALE: 1" = 1'-0"

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1680 WOODSTOCK ROAD WOODSTOCK, MD 21163

19.24

FOR PERMIT
2020 JUNE 29

WALL SECTION DETAILS

SCALE: AS NOTED

STATE OF MARYLAND
JAMES E. RICHARD
19883
ARCHITECT

SHEET NO.
A401

STRUCTURAL NOTES

1 GENERAL

A. THE STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE. THE FOLLOWING LIVE LOADS WERE UTILIZED IN THE DESIGN:

GARAGE SLAB	50 PSF
SNOW LOAD (GROUND SNOW)	30 PSF
WIND LOAD	115 MPH (ULTIMATE) 90 MPH (SERVICE)
SEISMIC DESIGN CATEGORY	B
TERMITE HAZARD	MODERATE TO SEVERE
DAMAGE FROM WEATHERING	SEVERE

A MINIMUM OF 12 PSF DEAD LOAD WAS ADDED IN THE DESIGN.

B. THE BASIC STABILITY OF THE STRUCTURE IS DEPENDENT UPON THE DIAPHRAGM ACTION OF FLOORS, WALLS & ROOF ACTING TOGETHER. CONTRACTOR TO PROVIDE ALL GUYS, BRACES, STRUTS, ETC. AS REQUIRED TO ACCOMMODATE ALL LIVE, DEAD AND WIND LOADS UNTIL ALL FINAL CONNECTIONS BETWEEN THESE ELEMENTS ARE MADE.

C. BASEMENT AND FOUNDATION WALLS ARE DEPENDENT UPON THE COMPLETED INSTALLATION OF FLOORS FOR THEIR STABILITY. CONTRACTOR SHALL NOT PLACE BACKFILL UNTIL THESE ELEMENTS ARE COMPLETELY INSTALLED, OR CONTRACTOR HAS PROVIDED SHORING AND BRACING TO ADEQUATELY RESTRAIN WALL.

2 EARTHWORK

A. SOIL BEARING VALUE AT THE BOTTOM OF ALL FOOTINGS IS ASSUMED TO BE 1500 PSF. THIS VALUE IS TO BE VERIFIED IN THE FIELD PRIOR TO POURING FOOTINGS BY A REGISTERED ENGINEER EXPERIENCED IN SOILS ENGINEERING OR BY A QUALIFIED INSPECTOR.

B. BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 2'_6" BELOW FINISH EXTERIOR GRADE. WHERE REQUIRED, STEP FOOTINGS IN RATIO OF 2 HORIZONTAL TO 1 VERTICAL.

C. STEP NEW FOOTINGS UP OR DOWN SUCH THAT BOTTOM OF FOOTING MATCHES THE EXISTING AT INTERSECTIONS BETWEEN NEW AND EXISTING WALLS. DRILL AND EPOXY GROUT 2#5 BARS X 2'-0" LONG INTO EXISTING FOOTING. PROVIDE MINIMUM 6" EMBEDMENT.

D. RESTRAINED FOUNDATION OR BASEMENT WALLS ARE DESIGNED FOR A LATERAL EARTH PRESSURE OF 60 PCF ASSUMING A PERIMETER DRAINTILE SYSTEM WITH FREE DRAINING SOIL MATERIAL OR DRAINAGE BOARD BEHIND WALL. NOTIFY ENGINEER IF SOIL CONDITIONS DIFFER.

3 CONCRETE

A. ALL CONCRETE TO HAVE MINIMUM COMPRESSIVE STRENGTH (F'c) = 3000 PSI IN 28 DAYS. EXTERIOR SLABS AND GARAGE FLOOR SLABS SHALL HAVE A MINIMUM STRENGTH OF 3500 PSI. ALL CONCRETE TO BE POURED IN ACCORDANCE WITH ACI 301 SPECIFICATIONS. CONCRETE EXPOSED TO WEATHER TO BE AIR-ENTRAINED.

B. ALL REINFORCING STEEL TO MEET ASTM_A_615 GRADE 60. PLACING PLANS AND SHOP FABRICATION DETAILS SHALL BE IN ACCORDANCE WITH "THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES". FURNISH SUPPORT BARS AND ALL REQUIRED ACCESSORIES IN ACCORDANCE WITH C.R.S.I. STANDARDS. ALL REINFORCING TO BE SPLICED A MINIMUM OF 30 BAR DIAMETERS UNLESS NOTED OTHERWISE.

C. PROVIDE CLEAR DISTANCE TO OUTERMOST REINFORCING AS FOLLOWS:

___ FOOTINGS (BOTTOM) 3"

D. PROVIDE CORNER BARS TO MATCH HORIZONTAL REINFORCING IN AND FOOTINGS.

4 MASONRY

A. ALL CONCRETE MASONRY UNITS TO CONFORM TO ASTM SPEC C_ 90 FOR LOADBEARING MASONRY. ALL MASONRY TO HAVE JOINT REINFORCING @ 16" O.C. HORIZONTALLY. MORTAR TO BE ASTM C_ 270 TYPE S. WALLS SHALL BE CONSTRUCTED WITH A FULL BED OF MORTAR.

B. LINTELS FOR MASONRY WALLS SHALL BE AS FOLLOWS: PROVIDE 1 ANGLE FOR EACH 4" OF WALL THICKNESS AS FOLLOWS:

OPENINGS TO 3'_0":	4" X 3-1/2" X 1/4" – LLV
3'-1" TO 5'-0":	4" X 3-1/2" X 5/16" – LLV
5'-1" TO 6'-6":	5" X 3-1/2" X 5/16" – LLV

OPENINGS GREATER THAN 6'-6": CONSULT ARCH/ENGR (LLV – LONG LEG VERTICAL)

C. ALL VERTICAL REINFORCING SHALL BE GROUTED IN PLACE WITH TYPE S MORTAR OR PEA GRAVEL CONCRETE. MIXIMUM GROUTING LIFT HEIGHT SHALL BE 4'-0" WITH A GROUT SLUMP BETWEEN 8 AND 11 INCHES.

D. ALL EXPANSION BOLTS OR SLEEVE ANCHORS IN MASONRY WALLS SHALL BE PLACED IN SOLID GROUTED MASONRY.

E. PROVIDE REINFORCING DOWELS FROM ALL FOOTINGS INTO MASONRY WALLS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.

5 STEEL

A. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A_992 GRADE 50. DETAILING TO BE IN ACCORDANCE WITH AISC STRUCTURAL STEEL DETAILING MANUAL.

B. ALL WELDERS SHALL BE CERTIFIED IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY. ALL WELDING ELECTRODES, MACHINES, ETC. SHALL BE COMPATIBLE WITH STEEL BEING WELDED.

6 STEEL DECK

A. STEEL DECK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE AND THE STEEL DECK INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS.

B. COMPOSITE SLABS OF CONCRETE AND STEEL DECK SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASCE 3.

C. COMPOSITE FLOOR DECK SHALL BE 20 GAGE, 1-1/2 INCH DEEP (Ip=0.186, Sp=0.224, In=0.222 Sn=0.231 PER FOOT OF WIDTH, U.N.O) AND SHALL EXTEND A MINIMUM OF 3 SPANS, U.N.O. DECK SHALL BE GALVANIZED.

D. MINIMUM REQUIREMENTS FOR FLOOR DECK FASTENING SHALL BE 5/8 INCH DIAMETER PUDDLE WELDS USING A 36/4 OR 30/3 WELD PATTERN WITH 1-#10 TEK SCREW SIDELAP FASTENER AT 3 FEET ON CENTER.

7 WOOD

A. ALL FRAMING LUMBER SHALL BE HEM-FIR, GRADE #2, OR SPRUCE-PINE-FIR, GRADE #1 / #2, OR BETTER, HAVING THE FOLLOWING MINIMUM PROPERITES (BASED ON 2x12 MEMBERS):

_BENDING STRESS "Fb" = 850 PSI FOR SINGLE MEMBER USE
_HORIZONTAL SHEAR "Fv" = 135 PSI
_COMPRESSION PERPENDICULAR TO GRAIN "Fc" = 405 PSI
_COMPRESSION PARALLEL TO GRAIN "Fc||" = 1,150 PSI
_MODULUS OF ELASTICITY "E" = 1,300,000 PSI

NOTE: SPRUCE-PINE-FIR (SOUTH) IS NOT ACCEPTABLE. SPRUCE-PINE-FIR MUST BE GRADED BY NLGA.

B. ALL EXPOSED EXTERIOR FRAMING AND FRAMING IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE-TREATED WITH ALAKALINE COPPER QUOT (ACQ) OR COPPER AZOLE (CBA-A AND CA-B), NOT SODIUM BORATE (SBX). LUMBER OR STRUCTURAL POSTS SHALL BE SOUTHERN YELLOW PINE, GRADE #2 OR BETTER, HAVING THE FOLLOWING MINIMUM PROPERTIES (BASED ON 2X12 LUMBER WITH REDUCTIONS)

_BENDING STRESS "Fb" = 750 PSI FOR SINGLE MEMBER USE
_HORIZONTAL SHEAR "Fv" = 175 PSI
_COMPRESSION PERPENDICULAR TO GRAIN "Fc" = 565 PSI
_COMPRESSION PARALLEL TO GRAIN "Fc||" = 1,250 PSI
_MODULUS OF ELASTICITY "E" = 1,400,000 PSI

C. PLYWOOD LAMINATED VENEER LUMBER (LVL OR MICROLAM) BEAMS SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

_BENDING STRESS "Fb" = 2600 PSI
_HORIZONTAL SHEAR "Fv" = 285 PSI
_MODULUS OF ELASTICITY "E" = 2,000,000 PSI
-BEARING STRESS "FPERP"= 780 PSI

D. ALL WALL STUDS SHALL BE SPF STUD GRADE OR BETTER, HAVING THE FOLLOWING MINIMUM PROPERTIES (BASED ON 2x6 MEMBERS):

-COMPRESSION PARALLEL TO GRAIN "Fc||" = 725 PSI
-BENDING STRESS "F" = 675 PSI FOR SINGLE USE MEMBERS
-MODULUS OF ELASTICITY "E" = 1,200,000 PSI

E. UNLESS NOTED OTHERWISE, FASTENING FOR STRUCTURAL MEMBERS SHALL FOLLOW INTERNATIONAL RESIDENTIAL CODE REQUIREMENTS.

F. NAILS FOR FRAMING AND SHEATHING CONNECTIONS SPECIFIED IN THE DRAWINGS AND ASSOCIATED NOTES SHALL CONFORM TO ASTM F1667 AND SHALL MEET THE FOLLOWING MINIMUM SIZE REQUIREMENTS:

TYPE	DIAMETER-x LENGTH
8d	0.113"x2-1/2"
10d	0.120"x3"
12d	0.135"x3-1/4"
16d	0.148"x3-1/2"
20d	0.177"x4"

NAILS USED IN STANDARD CONNECTIONS SHALL BE SIZED PER THE REQUIREMENTS OF THE BUILDING CODE.

G. CUTTING AND NOTCHING OF CONVENTIONAL FLOOR JOISTS SHALL CONFORM TO THE FOLLOWING:

__NOTCH DEPTH IN THE TOP OR BOTTOM OF THE JOISTS AND BEAMS SHALL NOT EXCEED ONE_SIXTH THE DEPTH OF THE MEMBERS AND SHALL NOT BE LOCATED IN THE MIDDLE ONE_ THIRD OF THE SPAN (INCLUDING BIRDS MOUTH CUTS).

__NOTCH DEPTH AT THE ENDS OF THE MEMBER SHALL NOT EXCEED ONE_FOURTH THE DEPTH OF THE MEMBER.

__THE TENSION SIDE OF BEAMS, JOISTS AND RAFTERS SHALL NOT BE NOTCHED, EXCEPT AT ENDS OF MEMBERS.

__HOLES BORED OR CUT INTO JOISTS SHALL NOT BE CLOSER THAN TWO INCHES TO THE TOP OR BOTTOM OF THE JOISTS. THE DIAMETER OF THE HOLE SHALL NOT EXCEED ONE_THIRD THE DEPTH OF THE JOISTS.

H. PROVIDE SOLID BLOCKING AT 4 FEET ON CENTER BETWEEN BAND JOIST AND FIRST INTERIOR PARALLEL JOIST.

I. PREFABRICATED JOIST HANGERS, BEAM HANGERS, POST CAPS AND POST BASES SHALL BE SIZED AND ATTACHED PER MANUFACTURER'S RECOMMENDATION. FASTENERS AND CONNECTORS UTILIZED WITH PRESSURE-TREATED MEMBERS SHALL MEET G185 HOT-DIPPED GALVANIZING.

J. PREFABRICATED STEEL HANGERS SHALL BE INSTALLED AS FOLLOWS:

1. ALL JOISTS, RAFTERS, AND BEAMS FLUSH-SUPPORTED TO OTHER FRAMING SHALL HAVE PREFABRICATED JOIST/BEAM HANGERS.
2. HANGERS SHALL BE SIZED IN ACCORDANCE WITH MANUFACTURER'S CATALOGUE FOR THE JOIST/BEAM TYPE, NUMBER OF PLIES, DEPTH, AND WIDTH.
3. WHERE HANGER LOADS ARE NOTED ON THE DRAWINGS, HANGERS SHALL BE SIZED TO CARRY THE LOAD VALUE.
4. PROVIDE SPECIAL SLOPED AND/OR SKEWED HANGERS FOR SLOPED AND SKEWED MEMBERS.

K. ANCHOR BOLTS CONNECTING PRESSURE-TREATED WOOD PLATES TO MASONRY OR CONCRETE SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL.

L. HOLES THROUGH WOOD I'S SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATIONS. NO CUTS OR HOLES ARE ALLOWED IN TOP OR BOTTOM CHORDS.

M. PROVIDE LSL OR LVL BAND BOARD IN WOOD I FLOOR JOIST OR WOOD FLOOR TRUSS SYSTEMS AT ALL PERIMETER BEARING WALLS. PROVIDE SQUASH BLOCKS AND STIFFENERS TO DISTRIBUTE LOADINGS AND AS REQUIRED BY MANUFACTURER. PROVIDE SOLID BLOCKING AT INTERIOR JOIST SUPPORTS WITH BEARING WALLS ABOVE.

N. ALL HEADERS SHALL HAVE A MINIMUM OF TWO STUDS AT EACH END UNLESS NOTED. BUILT-UP STUD COLUMNS SHALL HAVE ONE JACK STUD AND THE REMAINING STUDS SHALL BE KING STUDS. MULTIPLE STUDS SHALL BE NAILED WITH 12d NAILS AT 8" O.C. PROVIDE SOLID BLOCKING OR CRIPPLE STUDS IN FLOOR SYSTEM AT ALL POINT LOADS ABOVE.

O. ALL FREESTANDING POSTS SHALL HAVE PREFAB POSTCAP AND BASE. POSTS WITHIN WALLS SHALL HAVE PREFAB CAP ATTACHED TO BEAM. POSTS BEARING ON MASONRY OR CONCRETE SHALL HAVE PREFAB BASE.

P. HOLES BORED IN BEARING WALL STUDS SHALL NOT EXCEED 1/3 OF STUD WIDTH.

Q. ALL STUD BEARING WALLS TO BE PROVIDED WITH 2 CONTINUOUS TOP PLATES AND 1 CONTINUOUS BOTTOM PLATE WITH A MINIMUM OF ONE ROW OF HORIZONTAL BRIDGING AT MID HEIGHT OF WALL UNLESS NOTED OTHERWISE. SPLICES OF TOP PLATE SHALL OCCUR OVER STUD. SPLICES SHALL BE STAGGERED A MINIMUM OF FOUR FEET.

R. ALL ROOF RAFTERS SHALL BE CONNECTED AT EACH BEARING POINT WITH ONE PREFABRICATED GALVANIZED METAL CONNECTOR. EACH ANCHOR SHALL BE 18 GAGE MINIMUM THICK AND SHALL BE ATTACHED TO HAVE A CAPACITY TO RESIST A 450# UPLIFT LOADING UNLESS SHOWN OTHERWISE ON DRAWINGS.

8 SHEATHING

A. FLOOR SHEATHING SHALL BE 23/32 (3/4) INCH APA RATED STURD-I-FLOOR, TONGUE AND GROOVE, PLYWOOD. PANELS SHALL HAVE LONG DIMENSION ORIENTED ACROSS THREE OR MORE JOISTS AND SHALL BE FASTENED WITH CONSTRUCTION ADHESIVE AND 10d NAILS AT 6 INCHES ON CENTER AT PANEL EDGES AND AT 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. UNLESS NOTED OTHERWISE, PANEL EDGES NEED NOT BE BLOCKED.

B. EXTERIOR WALL SHEATHING SHALL BE 7/16 (1/2) INCH THICK APA RATED WOOD STRUCTURAL PANELS. FASTEN PANELS TO STUDS WITH 8d NAILS AT 6 INCHES ON CENTER AT PANEL EDGES AND AT 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OTHERWISE.

C. ROOF SHEATHING SHALL BE 19/32 (5/8) INCH APA RATED WOOD PANELS WITH SPAN RATING OF 24/0 OR BETTER. FASTEN PANELS TO FRAMING WITH 10d NAILS AT 6 INCHES ON CENTER AT PANEL EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS. ORIENT LONG DIMENSION OF PANELS ACROSS THREE OR MORE SUPPORTS. EDGES NEED NOT BE BLOCKED, UNLESS OTHERWISE NOTED.

9 MISCELLANEOUS

A. ALL WOOD BLOCKING, NAILERS, ETC. SHALL BE ATTACHED TO STEEL FRAMING WITH POWER ACTUATED FASTENERS OR 1/2" DIAMETER BOLTS UNLESS NOTED OTHERWISE. FASTENERS SHALL BE SPACED AT 24" MAXIMUM O.C. FASTENERS SHALL HAVE A MINIMUM CAPACITY OF 100 POUNDS IN SHEAR AND PULLOUT UNLESS NOTED OTHERWISE.

WARNING: THE STRUCTURAL INTEGRITY OF THE BUILDING SHOWN ON THESE PLANS IS DEPENDENT UPON COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS. STRUCTURAL MEMBERS ARE NOT SELF_BRACING UNTIL PERMANENTLY AFFIXED TO THE STRUCTURE AS DIRECTED. THE STRUCTURAL ENGINEERS ASSUME NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION UNLESS THE CONSTRUCTION METHOD AND BRACING ARE INCLUDED IN THE PLANS AND SPECIFICATIONS OR ARE SUPERVISED BY THE STRUCTURAL ENGINEERS DURING CONSTRUCTION.

ABBREVIATIONS LEGEND

A	
AB	ANCHOR BOLT
ADDL	ADDITIONAL
ADJ	ADJACENT
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE(LY)
ARCH	ARCHITECT(URAL)
B	
B	BEAM MARK
BF	BOTTOM OF FOOTING ELEVATION
BLKG	BLOCKING
BLDG	BUILDING
BM	BEAM
BOD	BOTTOM OF DECK
BOS	BOTTOM OF STEEL
BOTT	BOTTOM
BP	BEARING PLATE MARK
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
C	
C	COLUMN MARK
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CLR	CLEAR(ANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COM	CENTER OF MASONRY WALL
COMP	COMPOSITE
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE(TION)
COS	CENTER OF STUD
D	
DBA	DEFORMED BAR ANCHORS
DTL	DETAIL
DIAM	DIAMETER
DIAG	DIAGONAL
DN	DOWN
DWG	DRAWING
DBL	DOUBLE
DL	DEAD LOAD
E	
EA	EACH
EE	EACH END
EF	EACH FACE
EL	ELEVATION
ELEV	ELEVATOR
EOD	EDGE OF DECK
EOJ	EDGE OF JOIST
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EACH SIDE
EW	EACH WAY
EXIST, EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	
F	FOOTING MARK
FD	FLOOR DRAIN
FDN	FOUNDATION
FOB	FACE OF BUILDING
FOM	FACE OF MASONRY WALL
FOS	FACE OF STUD
FS	FOOTING STEP
FTG	FOOTING
FUT	FUTURE
G	
GA	GAGE, GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACT(OR)
GT	GIRDER TRUSS
H	
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HIGH STRENGTH
HT	HEIGHT
HTR	HIP TRUSS
I	
INFO	INFORMATION
IF	INSIDE FACE
J	
JBE	JOIST BEARING ELEVATION
JST	JOIST
JT	JOINT
JTR	JACK TRUSS
K	
K	KIP
KO	KNOCK-OUT
KSI	KIPS PER SQ. INCH
L	
L	LINTEL MARK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LL	LIVE LOAD
LP	LOW POINT
LVL	LAMINATED VENEER LUMBER
M	
MANUF	MANUFACTURER(ED)
MAS	MASONRY
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MATL	MATERIAL
MTL	METAL
N	
NTS	NOT TO SCALE
NS	NEAR SIDE
NIC	NOT IN CONTRACT
O	
OC	ON CENTER(S)
OPNG	OPENING
OPP	OPPOSITE
OF	OUTSIDE FACE
P	
P	PIER MARK
PC	PRECAST CONCRETE
PDF	POWER DRIVEN FASTENER
PEB	PRE-ENGINEERED BUILDING
PERIM	PERIMETER
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PP	PRECAST PLANK MARK
PROJ	PROJECTION
PSF	POUNDS PER SQ. FOOT
PSI	POUNDS PER SQ. INCH
PSL	PARALLEL STRAND LUMBER COLUMN
PT	POST TENSION/PRESSURE TREATED
Q	
QTY	QUANTITY
R	
RAD	RADIUS
RD	ROOF DRAIN
REV	REVISION, REVISE(D)
REINF	REINFORCE(D), (ING)
REM	REMAINDER
REQD	REQUIRED
RTU	ROOF TOP UNIT
S	
SB	SOIL BORING
SC	SLIP CRITICAL
SE	SPECIALTY DESIGN ENGINEER
SIM	SIMILAR
SJI	STEEL JOIST INSTITUTE
SOG	SLAB ON GRADE
SQ	SQUARE
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SPA	SPACES
SL	SNOW LOAD
SS	STAINLESS STEEL
T	
TEMP	TEMPORARY
TF	TOP OF FOOTING ELEVATION
THK	THICK(NESS), (ENED)
TJI	WOOD I JOIST
TO	THROUGH OUT
TOC	TOP OF CONCRETE
TOP	TOP OF PIER ELEVATION
TOS	TOP OF STEEL ELEVATION
TOW	TOP OF WALL ELEVATION
TYP	TYPICAL
U	
UNEXC	UNEXCAVATED
UNO	UNLESS NOTED OTHERWISE
UMD	UNDERSIDE METAL DECK ELEVATION
V	
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	
W/	WITH
WF	WIND FRAME
WP	WORK POINT
WWF	WELDED WIRE FABRIC

Professional Certification. I, Wayne C. Bryan, hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of State of Maryland, License no. 14376, Expiration Date: 04/06/21.

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RENOVATION OF & ADDITION TO THE
ALIPRANDO-PALMER RESIDENCE
1680 WOODSTOCK RD WOODSTUCK, MD

19.13

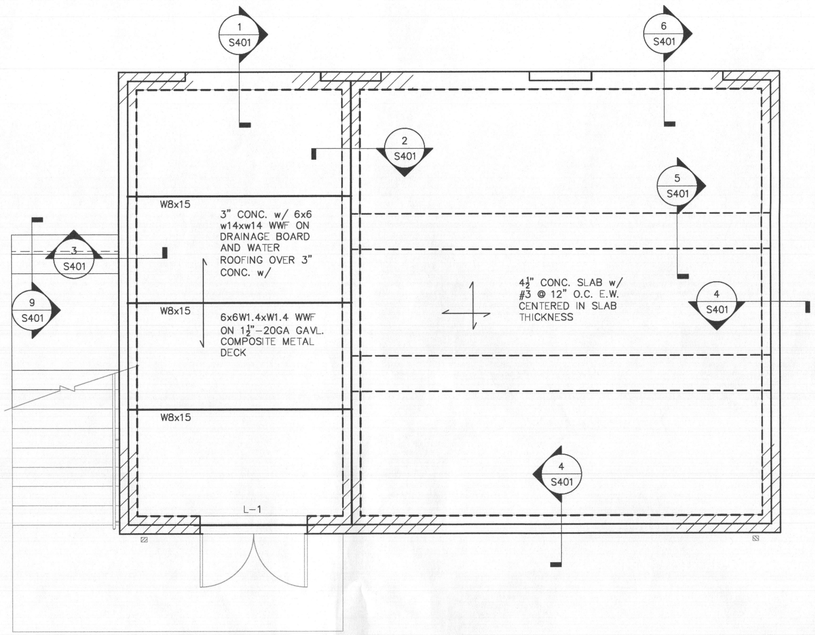
PERMIT SUBMISSION
2020 JUNE 29

STRUCTURAL NOTES AND ABBREVIATIONS

SCALE: AS NOTED

STATE OF MARYLAND · WAYNE C. BRYAN · 14376 · PROFESSIONAL ENGINEER

SHEET NO.
S100

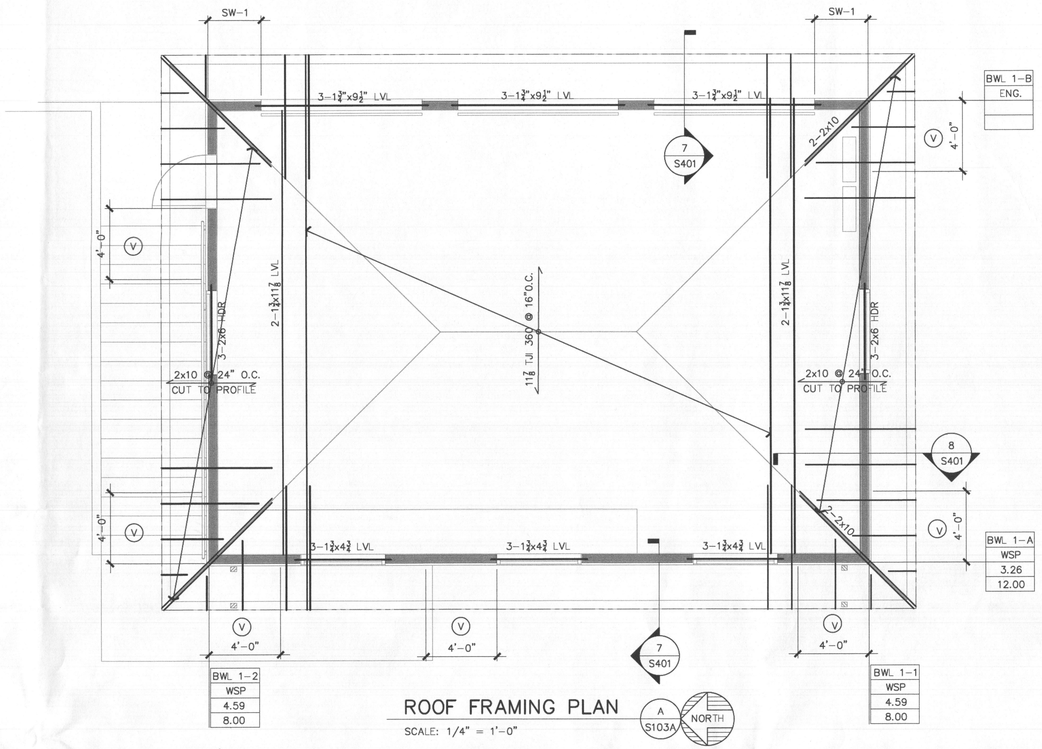


FIRST FLOOR FRAMING PLAN

B S103A NORTH

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

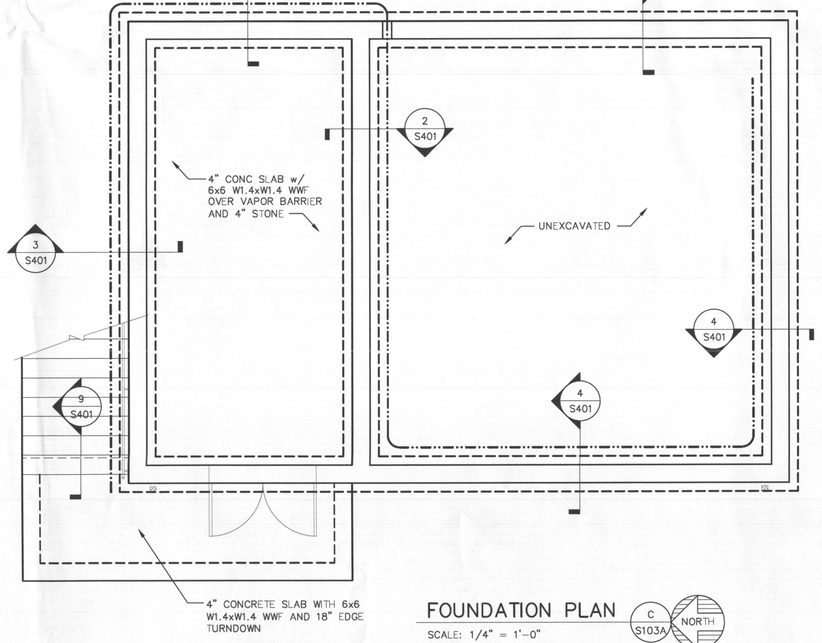
NOTE:
1. L-1 DENOTES L5x3½x$\frac{5}{16}$ (LLV) STEEL ANGLE LINTEL w/ 4" BEARING EA. END, PROVIDE 1 ANGLE FOR EA. 4" THICK WALL



ROOF FRAMING PLAN

A S103A NORTH

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



FOUNDATION PLAN

C S103A NORTH

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

Professional Certification. I, Wayne C. Bryan, hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of State of Maryland, License no. 14376, Expiration Date: 04/06/21.

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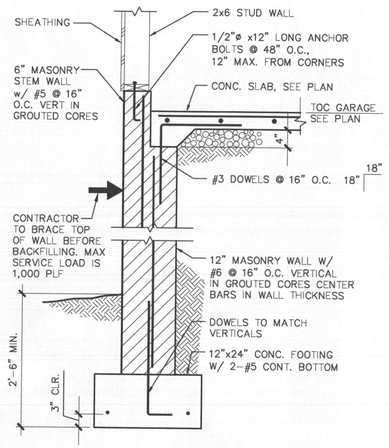
2020 JUNE 29

FRAMING PLANS

SCALE: AS NOTED

STATE OF MARYLAND · WAYNE C. BRYAN · 14376 · PROFESSIONAL ENGINEER

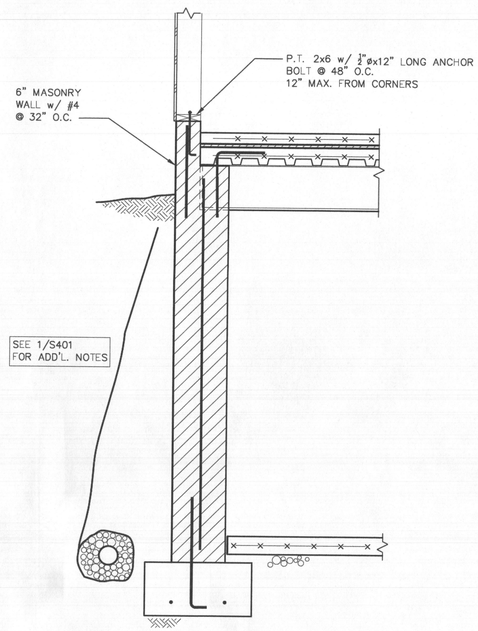
SHEET NO.
S103A



SECTION

SCALE: 3/4" = 1'-0"

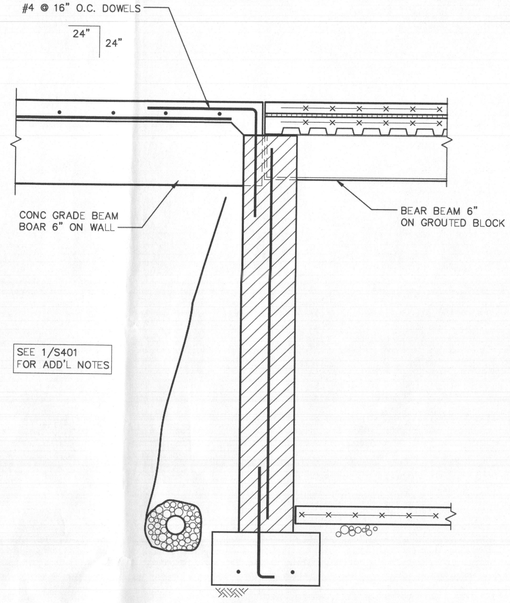
4 / S401



SECTION

SCALE: 3/4" = 1'-0"

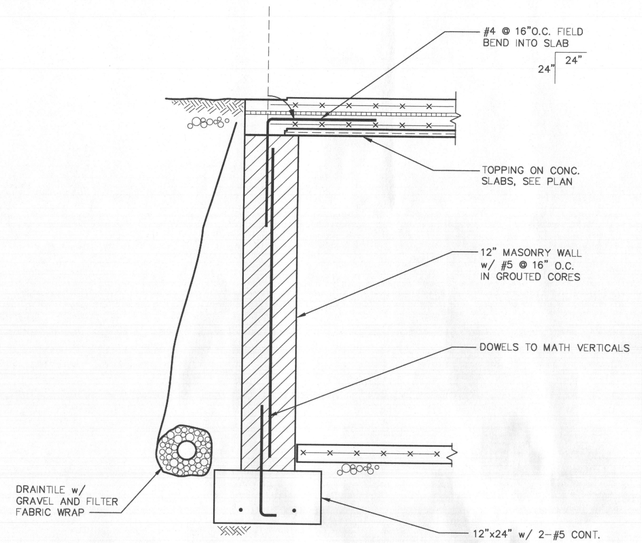
3 / S401



SECTION

SCALE: 3/4" = 1'-0"

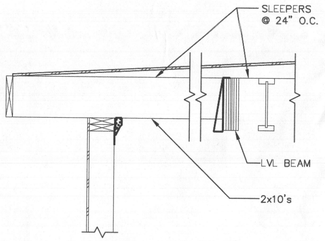
2 / S401



SECTION

SCALE: 3/4" = 1'-0"

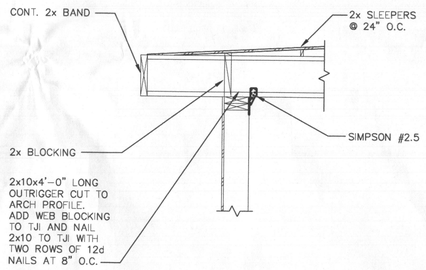
1 / S401



SECTION

SCALE: 3/4" = 1'-0"

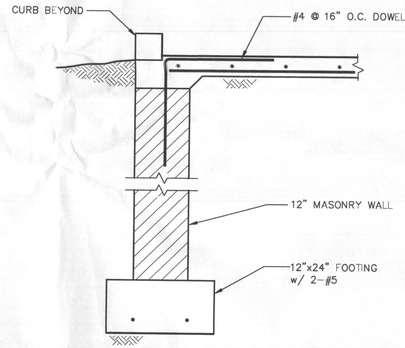
8 / S401



SECTION

SCALE: 3/4" = 1'-0"

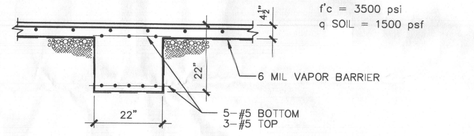
7 / S401



SECTION

SCALE: 3/4" = 1'-0"

6 / S401

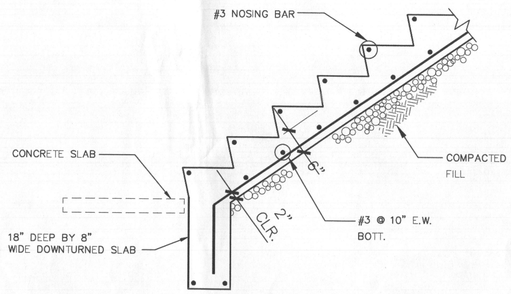


SECTION

SCALE: 3/4" = 1'-0"

5 / S401

SEAL: This Drawing IS NOT To Be Used For Construction UNLESS Stamped With An ORIGINAL RED ENGINEERS SEAL.

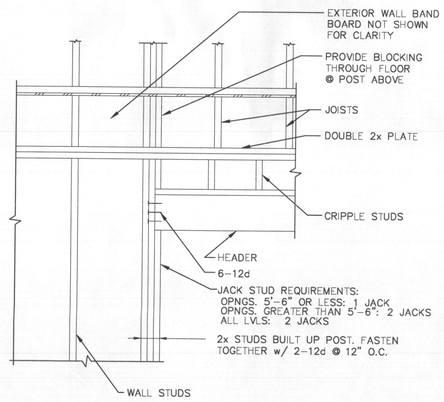


ITYPICAL CONCRETE STAIRS

SECTION

SCALE: 3/4" = 1'-0"

9 / S-401



TYPICAL DROPPED HEADER AT OPENING

SECTION

SCALE: 3/4" = 1'-0"

5 / S401

Professional Certification. I, Wayne C. Bryan, hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of State of Maryland, License no. 14376, Expiration Date: 04/06/21.

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RENOVATION OF & ADDITION TO THE
ALIPRANDO-PALMER RESIDENCE
1680 WOODSTOCK RD WOODSTUCK, MD

19.13

PERMIT SUBMISSION
2020 JUNE 29

FRAMING SECTIONS

SCALE: AS NOTED

STATE OF MARYLAND WAYNE C. BRYAN 14376 PROFESSIONAL ENGINEER

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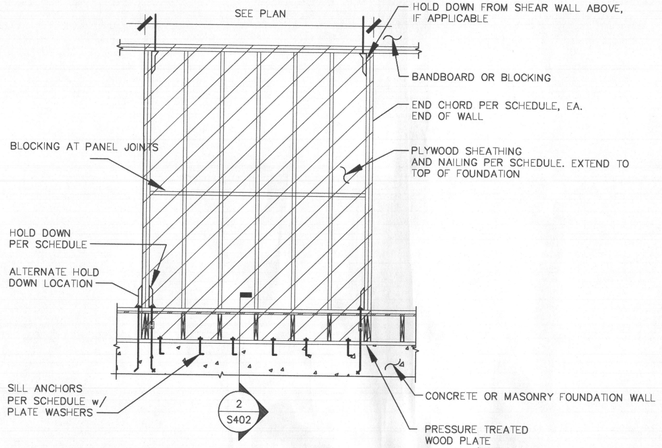
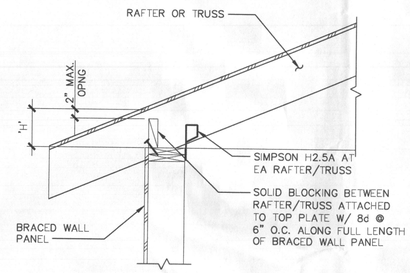
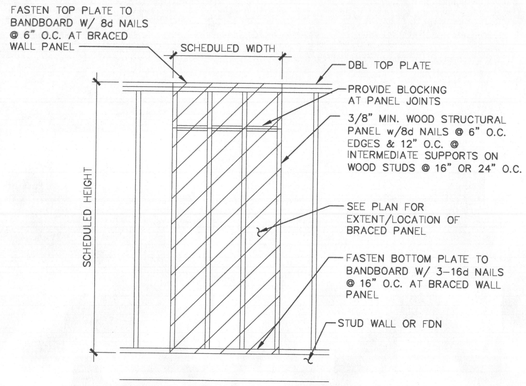


TYPICAL SHEAR WALL ON FOUNDATION



RAFTER/TRUSS @ BRACED WALL PANEL < 15 1/4"

'H' < 9¼" – NO BLOCKING REQUIRED
9¼" < 'H' < 15¼" – SOLID BLOCKING AS SHOWN
15¼" < 'H' < 4'–0" – SEE DETAIL (R)



BRACED WALL PANEL ELEVATION (WSP)

NOTES: SEE DETAIL (R) AND (S) FOR ROOF CONDITION

MIN. PANEL WIDTHS	
HEIGHT	WIDTH
<10'	4'–0"
11'	4'–5"
12'	4'–10"

BRACED WALL METHOD		
DETAIL	ABBREVIATION	BRACED WALL METHOD
(U)	ENGR.	ENGINEERED
(V)	WSP	WOOD STRUCTURAL PANEL
(W)	CS–WSP	CONTINUOUSLY SHEATHED WOOD STRUCTURAL PANEL
(X)	CS–PF	CONTINUOUSLY SHEATHED PORTAL FRAME
(Y)	GB	GYPSUM BOARD PANEL (DOUBLE SIDED UNLESS NOTED OTHERWISE)

BWL #1	BRACED WALL LINE NUMBER
WSP	BRACING METHOD
11.47'	BRACED WALL LENGTH REQUIRED
12'	BRACED WALL LENGTH PROVIDED

SECTION
NOT TO SCALE — 1 / S402

DETAIL
SCALE: — S

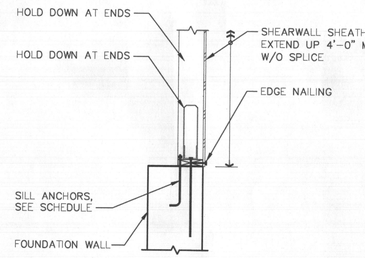
DETAIL
SCALE: — V

WOOD SHEAR WALL SCHEDULE

MARK	SECTION	FLOOR LEVEL	SHEATHING TYPE	NAIL SIZE	NAIL SPACING		END CHORD	HOLD DOWN		SILL ANCHORS
					EDGES	FIELD		TYPE	ANCHOR ROD	
SW–1	1/S302	FIRST	15/32 OSB	10d	6"	12"	2–2x6	HDU4–SD2.5	5/8"ø	½"ø AB @ 24" O.C.

NOTES:

1. ALL SHEATHING JOINTS TO BE BLOCKED.
2. PROVIDE 4½"x4½"x¼" PLATE WASHERS AT SILL ANCHOR BOLTS IN 2X6 WALLS, 2½"x2½"x¼" WASHER AT 2X4 WALLS.
3. ALL HOLD DOWNS BASED ON SIMPSON STRONG TIE.



SHEAR WALL AT FOUNDATION

SECTION
SCALE: 3/4" = 1'–0" — 2 / S402

Professional Certification. I, Wayne C. Bryan, hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of State of Maryland, License no. 14376, Expiration Date: 04/06/21.

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TYPICAL WALL BRACING DETAILS

SCALE: AS NOTED

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