

APPROVED

Limited building only review
Permit holder responsible for
full compliance with the code



02/27/2020

NORTH CAROLINA 40' SERIES PLAN 140.1445-R

LOT 15 MASON POINTE - ELEVATION B

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PLAN #140.1445-R

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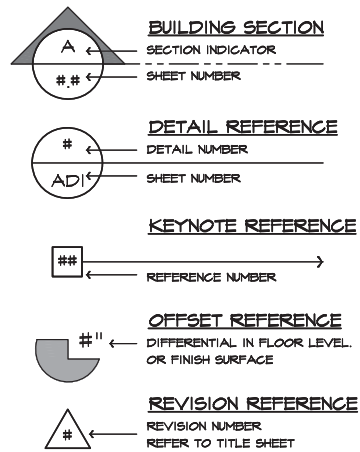
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AD1 ARCHITECTURAL DETAILS
AD2 ARCHITECTURAL DETAILS
AD3 ARCHITECTURAL DETAILS
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AD5 ARCHITECTURAL DETAILS
AD6 ARCHITECTURAL DETAILS
AD7 ARCHITECTURAL DETAILS
AD8 ARCHITECTURAL DETAILS

ABBREVIATIONS

ABV.	ABOVE	G.F.I.	GROUND-FAULT CIRCUIT INTERRUPTER	R.O.	ROUGH OPENING
A/C	AIR CONDITIONING	S & P	S & P	S & P	SHELF AND POLE
ADJ.	ADJUSTABLE	G.I.	GALVANIZED IRON	S.C.	SOLID CORE
ALT	ALTERNATE	GL.	GLASS	S.D.	SMOKE DETECTOR
AMP.	AMPERAGE	GYP. BD.	GYP. BOARD	SEC.	SECTION
BD.	BOARD	H.C.	HOLLOW CORE	S.H.	SINGLE HUNG
CL.	CENTER LINE	HDR.	HEADER	SHT.	SHEET
CAB.	CABINET	HST. / HT.	HEIGHT	SHTHG.	SHEATHING
CLS.	CEILING	H.H.	HEADER HEIGHT	SHWR.	SHOWER
CLR.	CLEAR	H.H.	HORIZONTAL	SIM.	SIMILAR
CONC.	CONCRETE	HS	HORIZONTAL SLIDER	SL.	SLIDING
CPT.	CARPET	I.L.O.	IN LIEU OF	SL. GL.	SLIDING GLASS
C.T.	CERAMIC TILE	INSUL.	INSULATION	STD.	STANDARD
D.	DRYER	INT.	INTERIOR	S.V.	SHEET VINYL
DBL.	DOUBLE	LAM.	LAMINATED	TEMP.	TEMPERED GLASS
D.S.	DUAL GLAZED	LAV.	LAVATORY	THK.	THICK
DIA.	DIAMETER	LUM.	LUMINOUS	T.O.C.	TOP OF CURB
DIM.	DIMENSION	M.C.	MEDICINE CABINET	T.O.P.	TOP OF PLATE
DISP.	DISPOSAL	MFR.	MANUFACTURER	T.O.S.	TOP OF SLAB
D.L.	DIVIDED LIGHT	MIN.	MINIMUM	TYP.	TYPICAL
DP.	DEEP	MTD.	MOUNTED	U.N.O.	UNLESS NOTED OTHERWISE
DR.	DOOR	MTL.	METAL	V.P.	VAPOR PROOF
D.S.	DOWNSPOUT	N.I.C.	NOT IN CONTRACT	V.P.	VAPOR PROOF
DTL.	DETAIL	N.T.S.	NOT TO SCALE	W.	WASHER
D.W.	DISHWASHER	O/	OVER	W/	WITH
EA.	EACH	O.C.	ON CENTER	WD.	WOOD
ELEV.	ELEVATION	OPT.	OPTIONAL	WDM.	WINDOW
EQ.	EQUAL	O.S.A.	OUTSIDE AIR	WH	WATER HEATER
EXH.	EXHAUST	PL.	PROPERTY LINE	WI.	WROUGHT IRON
EXT.	EXTERIOR	P.B.	PUSH BUTTON	W.P.	WEATHER PROOF
FAU	FORCED AIR UNIT	PH.	PHONE		
F.G./FX.	FIXED GLASS	PLT.	PLATE		
F.G.	FUEL GAS	PLYWD.	PLYWOOD		
FIN.	FINISH	PR.	PAIR		
FLR.	FLOOR	P.T.D.F.	PRESSURE TREATED DOUGLAS FIR		
FLR. LINE	FLOOR LINE	R.	RISER		
FLUOR.	FLUORESCENT	RAD.	RADIUS		
FR. DR.	FRENCH DOOR	R.A.G.	RETURN AIR GRILL		
F.M.C.	FLOOR MATERIAL CHANGE	REF.	REFRIGERATOR		
FTS.	FOOTING	RE/S	RE-SAWN		
GA.	GAUGE	REV.	REVERSE		
GAR. DISP.	GARBAGE DISPOSAL	RM.	ROOM		

ARCH. SYMBOLS



SCALE NOTE

IF BOX IS 1" SQ. THEN SCALE IS 1/4" = 1'-0"
IF BOX IS 1/2" SQ. THEN SCALE IS 1/8" = 1'-0"

CONSULTANTS

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SQUARE FOOTAGE

SQUARE FOOTAGE	
PLAN 140.1445-R	
FLOOR AREA	1445
TOTAL AREA	1445 SQ. FT.
GARAGE AREA	420 SQ. FT.
PORCH AREA(S)	
ELEVATION 'A'	48 SQ. FT.
ELEVATION 'B'	43 SQ. FT.
ELEVATION 'C'	49 SQ. FT.
ELEVATION 'D'	44 SQ. FT.
PATIO AREA(S)	
COVERED	100 SQ. FT.
EXT. COVD.	210 SQ. FT.
DECK	144 SQ. FT.
EXT. DECK	288 SQ. FT.

CODE INFORMATION

APPLICABLE CODES:
2018 NORTH CAROLINA STATE BUILDING CODE, RESIDENTIAL CODE, INCLUDING REFERENCED CODES AND STANDARDS

CODE ABBREVIATIONS	
N.C.-R.	NORTH CAROLINA RESIDENTIAL CODE
N.C.-B.	NORTH CAROLINA BUILDING CODE
N.C.-M.	NORTH CAROLINA MECHANICAL CODE
N.C.-P.	NORTH CAROLINA PLUMBING CODE
N.C.-F.	NORTH CAROLINA FUEL GAS CODE
N.C.-E.	NORTH CAROLINA ELECTRICAL CODE
N.C.-E.C.	NORTH CAROLINA ENERGY CODE
N.E.C.	NATIONAL ELECTRICAL CODE
I.C.B.O.	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS
N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION
A.N.S.I.	AMERICAN NATIONAL STANDARDS INSTITUTE
I.E.C.C.	INTERNATIONAL ENERGY CONSERVATION CODE
I.C.C.	INTERNATIONAL CODE COUNCIL UNDERWRITERS LABORATORIES, INC.

PROJECT DESCRIPTION:
1 STORY SINGLE FAMILY DETACHED RESIDENTIAL PLAN W/ 4 ELEVATION TYPES

OCCUPANCY:
R3

CONSTRUCTION TYPE:
V - B

REVISION LIST

DELTA	DATE	SHEETS REVISED	LOG NUMBER
2	07/24/18	TS, 1.1, 1.3, 2.4, 2.5, 3.A3, 3.A4, 3.B4, 3.B5, 3.C4, 3.C5, 3.D4, 3.D5, 4.3, 7.1, 7.2, 8.A5, 8.A6, 8.B5, 8.B6, 8.B5, 8.C5, 8.C6, 8.D5, 8.D6	NC18024NCP
3	09/27/18	1.2, 5.2	NC18041NCP
4	03/15/19	TS, GN1, GN2, GN3, 3.A1, 3.B2, 3.C2, 3.D2, 5.1, 8.A1 - 8.A6, 8.B1 - 8.B6, 8.C1 - 8.C6, 8.D1 - 8.D6	NC19015NCP
5	03/22/19	TS, 1.1, 1.3, 2.1, 3.A3, 3.B1, 3.B4, 3.C1, 3.C4, 3.D1, 3.D4, 5.1	NC19017NCP
6	08/26/19	TS, 1.1, 1.3, 3.A3, 3.B1, 3.B4, 3.C1, 3.C4, 3.D1, 3.D4, 5.1	NC19050NCP
7	08/30/19	3.A1, 3.B2, 3.C2, 3.D2, 8.A1 - 8.D6	NC19060NCP
8	11/26/19	3.A1-3.A4, 3.B2-3.B5, 3.C1-3.C5, 3.D1-3.D5, 8.A1-8.D6	NC19060NCP



NORTH CAROLINA 40' SERIES

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2018 NORTH CAROLINA STATE BUILDING CODES

ISSUE DATE: 02/23/17
PROJECT No.: 1350999-56
DIVISION MGR.: MCP
REVISIONS: 11/26/19

- 2 ADD CRAWL SPACE NC18041NCP/ 7/24/18 CTD
- 3 DIVISION REVISIONS NC18041NCP/ 9/27/18 CTD
- 4 2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD
- 5 DIVISION REVISIONS NC19017NCP/ 03/22/19 / CTD
- 6 DIVISION REVISIONS NC19050NCP/ 08/26/19 / FAB
- 7 UPDATE ATTIC VENT CALCS NC19060NCP/ 08/30/19 / CTD
- 8 DIVISION REVISIONS NC19060NCP/ 11/26/19 / FAB

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REVISION BY:	
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2	
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PLAN:
40.1445-R
SHEET:
TS

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

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**2018 NORTH
CAROLINA STATE
BUILDING
CODES**

ISSUE DATE: 02/23/17
PROJECT No.: 1350999-56
DIVISION MGR.: MCP
REVISIONS: 11/26/19

- 2 ADD CRAWL SPACE NC18024NCP-7/24/18 CTD
- 3 DIVISION REVISIONS NC18041NCP-9/27/18 CTD
- 4 2018 CODE UPDATE NC19015NCP/03/15/19 / CTD
- 5 DIVISION REVISIONS NC19017NCP/03/22/19 / CTD
- 6 DIVISION REVISIONS NC19050NCP/08/26/19 / FAB
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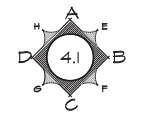
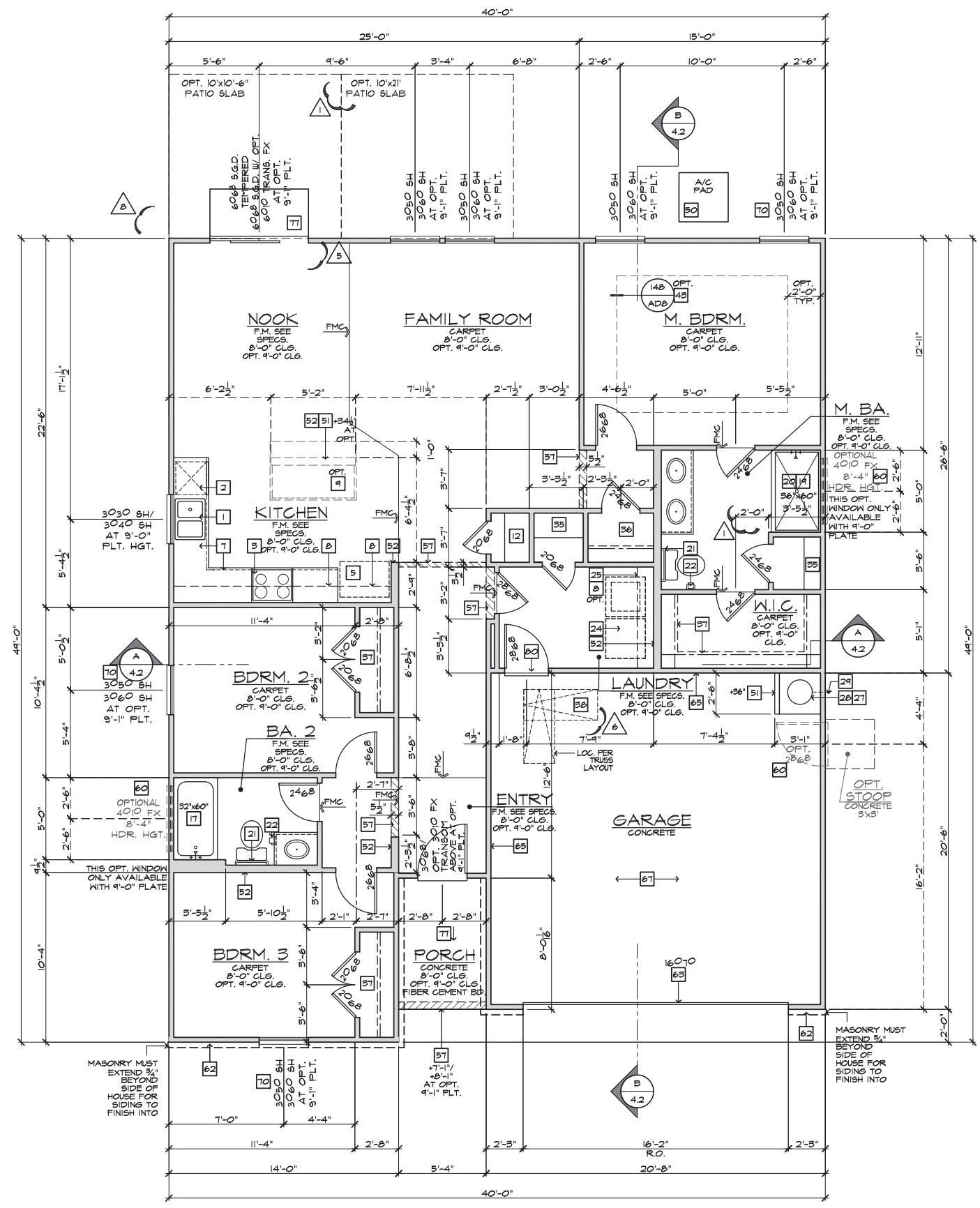
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PLAN:
40.1445-R
SHEET:
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**SPEC. LEVEL 1
RALEIGH-DURHAM
40' SERIES**

FLOOR PLAN NOTES

- NOTE: NOT ALL KEY NOTES APPLY.
- SINK - GARBAGE DISPOSAL OPTIONAL - VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS
 - DISHWASHER - PROVIDE AIR GAP - VERIFY SPACING & DIMENSIONS PER MANUFACTURERS' SPECS
 - SLIDE-IN RANGE/OVEN COMBINATION W/ BUILT-IN NON-VENTED HOOD W/LIGHT & FAN - VERIFY WITH MANUFACTURERS' SPECS
 - 30" COOKTOP W/ BUILT-IN VENTED HOOD W/ LIGHT & FAN - VERIFY WITH MANUFACTURERS' SPECS
 - 34" CLEAR REFRIGERATOR SPACE W/ OPTIONAL CABINETS ABOVE - OPT. PLUMBING FOR ICEMAKER (RECESSED IN WALL)
 - COMBINATION DOUBLE OVEN OR OVEN/MICROWAVE OVEN OR OVEN VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS
 - BASE CABINETS - REFER TO INTERIOR ELEVATIONS
 - UPPER CABINETS - REFER TO INTERIOR ELEVATIONS
 - ISLAND CABINET - REFER TO INTERIOR ELEVATIONS
 - MIN. 12" BAR TOP/ BREAKFAST BAR
 - DESK AREA - REFER TO INTERIOR ELEVATIONS
 - BUILT-IN PANTRY (15" DEEP OR U.N.O.)
 - SINK CABINET(S) - REFER TO INTERIOR ELEVATIONS
 - SINK CABINET W/ EXTENDED VANITY & KNEE SPACE BELOW - REFER TO INTERIOR ELEVATIONS
 - OPT. SINK - REFER TO INTERIOR ELEVATIONS
 - KNEE SPACE - REFER TO INTERIOR ELEVATIONS
 - PRE-FAB. TUB/SHOWER COMBO W/ FIBERGLASS MAINSCOT TO T2 - VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS
 - OVAL TUB - VERIFY DIMENSIONS WITH MANUF'S SPECS
 - PRE-FAB. SHOWER PAN W/ 50" MIN. CLR. INSIDE & MAINSCOT TO T2 - VERIFY DIMENSIONS W/ MANUF'S SPECS
 - SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE
 - TOWEL BAR - PROVIDE 2x SOLID BLK'S IN WALL
 - TOILET PAPER HOLDER - PROVIDE 2x SOLID BLK'S IN WALL
 - RECESSED, MIRRORED MEDICINE CABINET
 - WASHER & DRYER - PROVIDE WATER & WASTE FOR WASHER - RECESS WASHER CONTROL VALVES IN WALL - VENT DRYER TO OUTSIDE AIR - PROVIDE "SMITTY FAN" W/ DRAIN BELOW WASHER AT 2ND FLOOR LAUNDRY LOCATION ACCOMMODATE APPLIANCES TO BE LOCATED WASHER AT LEFT AND DRYER AT RIGHT.
 - 12" SHELF PER SPECS
 - OPT. LAUNDRY SINK - REFER TO INTERIOR ELEV'S
 - WATER HEATER LOCATION - FOR GAS - LOCATE ON 18" HIGH PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN & DRAIN. (REFER TO DETAILS)
 - WATER HEATER 'B' VENT TO OUTSIDE AIR
 - MAIN LINE SHUT-OFF VALVE AND TEMP. & PRESSURE RELIEF VALVE
 - FAUJ. LOCATION (REFER TO DETAIL SHEETS)
 - FAUJ. 'B' VENT TO OUTSIDE AIR
 - LISTED FACTORY-BUILT GAS FIRED DEC. APPLIANCE (REF. 60/ADA) - INSTALL PER MFR SPECS
 - HEARTH TO BE INSTALLED PER FACTORY-BUILT FIREPLACE LISTING
 - GAS APPLIANCE 'B' VENT FROM BELOW
 - LINEN PER SPECS (15" DEEP OR U.N.O.)
 - COAT CLOSET W/ SHELF & POLE (REFER TO DETAIL SHEETS)
 - WARDROBE W/ SHELF & POLE (REFER TO DETAIL SHEETS)
 - 22"x30" MIN. ATTIC ACCESS (REFER TO DETAIL SHEETS) W/ 25"x54" FULL DOWN LADDER R.O. ATTIC ACCESS
 - LINE OF WALL BELOW
 - DUCT CHASE
 - LINE OF FLOOR ABOVE
 - LINE OF FLOOR BELOW
 - LINE OF OPTIONAL TRAY CEILING (REFER TO DETAIL SHEETS)
 - LINE OF HIP AT OPTIONAL VOLUME CEILING
 - LINE OF RIDGE AT OPTIONAL VOLUME CEILING
 - CEILING BREAK
 - STAIR TREADS & RISERS - MIN. 10" TREAD & MAX. 1 5/4" RISER - (REFER TO DETAIL SHEETS)
 - MIN. 36" HIGH GUARDRAIL (REFER TO DETAIL SHEETS)
 - 34" TO 38" HIGH HANDRAIL (REFER TO DETAIL SHEETS)
 - A/C PAD LOCATION
 - LOW WALL - REFER TO PLAN FOR HEIGHT
 - 2x6 STUD WALL
 - 2x6 BALLOON FRAMED WALL PER STRUCTURAL
 - DEL. 2x4 WALL PER PLAN
 - INTERIOR SHELF-SEE PLAN FOR HT. (REFER TO DETAIL SHEETS)
 - MEDIA NICHE
 - FLAT SOFFIT - REFER TO PLATE NOTES / ELEV. FOR HGT.
 - ARCHED SOFFIT - REFER TO PLATE NOTES / ELEV. FOR HGT.
 - HINDOW SEAT
 - OPT. DOOR/ WINDOW
 - PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) VENEER TO COMPLY WITH THE N.C.R.
 - SECTIONAL GARAGE DOOR PER SPECS
 - MIN. 1/2" GYP. BD. ON CEILINGS & WALLS @ USEABLE SPACE UNDER STAIR
 - GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYP. BD. @ GARAGE SIDE WALLS & 5/8" UNDER LIVING AREA U.N.O.
 - NOT USED
 - 5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR ASB.
 - P.T. POST W/ VINYL WRAP
 - CONCRETE STOOOP, 56"x36" STANDARD SLOPE 1/4" PER FT. MIN.
 - EGRESS WINDOW
 - PROVIDE ADDITIONAL RISER(S) AT OPTIONAL PLATE HT.
 - MDF TOP
 - PLUMBING DROP FROM ABOVE
 - ADJUST OPENING AT OPTION TO FIT THE DOOR SIZE SHOWN
 - WINDOW LEDGE, HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(S) ON ALL SIDES U.N.O.
 - SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
 - CONCRETE SLAB, SLOPE 1/4" PER FT. MIN. SEE PLAN FOR SIZE.
 - LOWERED DOOR
 - SLOPING LOW WALL 36" ABOVE ADJACENT TREADS
 - 20 MIN. FIRE-RATED DOOR



INTERIOR KEY

SQUARE FOOTAGE	
PLAN 140.1445-R	
FLOOR AREA	1445
TOTAL AREA	1445 SQ. FT.
GARAGE AREA	420 SQ. FT.
PORCH AREA(S)	
ELEVATION 'A'	43 SQ. FT.
ELEVATION 'B'	43 SQ. FT.
ELEVATION 'C'	44 SQ. FT.
ELEVATION 'D'	44 SQ. FT.
PATIO AREA(S)	
COVERED	100 SQ. FT.
EXT. COVD.	210 SQ. FT.
DECK AREA(S)	
DECK	144 SQ. FT.
EXT. DECK	288 SQ. FT.

GENERAL PLAN NOTES

- ALL CEILING HEIGHTS PER SECTION AND ELEVATION PLATE HEIGHTS, U.N.O.
- ALL INTERIOR DOORS TO BE HOLLOW CORE 1 3/8" THICK, U.N.O. (REFER TO PLAN FOR SIZE).
- ALL GARAGE SERVICE DOORS TO BE HOLLOW CORE EXTERIOR GRADE (REFER TO PLAN FOR SIZE).
- ALL HOUSE TO GARAGE DOORS TO BE 20-MINUTE FIRE-RATED (REFER TO PLAN FOR SIZE).
- ALL ENTRY DOORS AND EXTERIOR FRENCH DOORS TO BE SOLID CORE 1 3/4" THICK (REFER TO PLAN FOR SIZE).
- ALL FLOOR MATERIAL CHANGES TO OCCUR AT CENTER OF DOOR JAMBS, U.N.O.

PLATE NOTES

- 8'-1" PLATE NOTES**
- WINDOW HEADER HEIGHT: 8'-0" U.N.O.
 - 2ND FLOOR WINDOW HDR. HEIGHT: 7'-0" U.N.O.
 - ENTRY DOOR HEIGHT: 6'-8" U.N.O.
 - SLIDING GLASS DOOR HEIGHT: 6'-8" (TEMP)
 - INTERIOR SOFFIT HEIGHT: 7'-4" U.N.O.
 - TRAY CEILING: 7" RISE INTO TRUSS U.N.O.
 - INTERIOR DOOR HEIGHT: 6'-8" U.N.O.
- 9'-1" PLATE NOTES**
- WINDOW HEADER HEIGHT 1st FL.: 8'-0" U.N.O.
 - WINDOW HEADER HEIGHT 2nd FL.: 7'-8" U.N.O.
 - 4010 WINDOW OVER TUB HDR. HGT.: 8'-4" U.N.O.
 - ENTRY DOOR HEIGHT: 6'-8" U.N.O.
 - SLIDING GLASS DOOR HEIGHT: 6'-8" (TEMP)
 - INTERIOR SOFFIT HEIGHT: 8'-0" U.N.O.
 - TRAY CEILING: 7" RISE INTO TRUSS U.N.O.
 - INTERIOR DOOR HEIGHT: 6'-8" U.N.O.

FLOOR PLAN

SCALE: 1/4"=1'-0" (22"x34") - 1/8"=1'-0" (11"x17")

BASIC PLAN

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FLOOR PLAN NOTES

- NOTE: NOT ALL KEY NOTES APPLY.**
- SINK - GARBAGE DISPOSAL OPTIONAL - VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS
 - DISHWASHER - PROVIDE AIR GAP - VERIFY SPACING & DIMENSIONS PER MANUFACTURERS' SPECS
 - SLIDE-IN RANGE/OVEN COMBINATION W/ BUILT-IN NON-VENTED HOOD W/LIGHT & FAN - VERIFY WITH MANUFACTURERS' SPECS
 - 30" COOKTOP W/ BUILT-IN VENTED HOOD W/ LIGHT & FAN - VERIFY WITH MANUFACTURERS' SPECS
 - 34" CLEAR REFRIGERATOR SPACE W/ OPTIONAL CABINETS ABOVE - OPT. PLUMBING FOR ICEMAKER (RECESSED IN WALL)
 - COMBINATION DOUBLE OVEN OR OVEN/MICROWAVE OVEN OR OVEN - VERIFY DIMENSIONS WITH MANUFACTURERS' SPECS
 - BASE CABINETS - REFER TO INTERIOR ELEVATIONS
 - UPPER CABINETS - REFER TO INTERIOR ELEVATIONS
 - ISLAND CABINET - REFER TO INTERIOR ELEVATIONS
 - MIN. 12" BAR TOP/ BREAKFAST BAR
 - DESK AREA - REFER TO INTERIOR ELEVATIONS
 - BUILT-IN PANTRY (15" DEEP OR U.N.O.)
 - SINK CABINET(S) - REFER TO INTERIOR ELEVATIONS
 - SINK CABINET W/ EXTENDED VANITY & KNEE SPACE BELOW - REFER TO INTERIOR ELEVATIONS
 - OPT. SINK - REFER TO INTERIOR ELEVATIONS
 - KNEE SPACE - REFER TO INTERIOR ELEVATIONS
 - PRE-FAB. TUB/SHOWER COMBO W/ FIBERGLASS MAINSCOT TO T2" - VERIFY DIMENSIONS W/ MANUF'S SPECS
 - OVAL TUB - VERIFY DIMENSIONS WITH MANUF'S SPECS
 - PRE-FAB. SHOWER PAN W/ 30" MIN. CLR. INSIDE & MAINSCOT TO T2" - VERIFY DIMENSIONS W/ MANUF'S SPECS
 - SHATTERPROOF (TEMPERED) GLASS SHOWER ENCLOSURE
 - TOWEL BAR - PROVIDE 2x SOLID BLK'S IN WALL
 - TOILET PAPER HOLDER - PROVIDE 2x SOLID BLK'S IN WALL
 - RECESSED, MIRRORRED MEDICINE CABINET
 - WASHER & DRYER - PROVIDE WATER & WASTE FOR WASHER - RECESS WASHER CONTROL VALVES IN WALL - VENT DRYER TO OUTSIDE AIR - PROVIDE "SMITTY PAN" W/ DRAIN BELOW WASHER AT 2ND FLOOR LAUNDRY LOCATION ACCOMMODATE APPLIANCES TO BE LOCATED WASHER AT LEFT AND DRYER AT RIGHT.
 - 12" SHELF PER SPECS
 - OPT. LAUNDRY SINK - REFER TO INTERIOR ELEV'S
 - WATER HEATER LOCATION: - FOR GAS - LOCATE ON 10" HIGH PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN & DRAIN. (REFER TO DETAILS)
 - WATER HEATER 'B' VENT TO OUTSIDE AIR
 - MAIN LINE SHUT-OFF VALVE AND TEMP. & PRESSURE RELIEF VALVE
 - F.A.U. LOCATION (REFER TO DETAIL SHEETS)
 - F.A.U. 'B' VENT TO OUTSIDE AIR
 - LISTED FACTORY-BUILT GAS FIRED DEC. APPLIANCE (REF. 60/AD4) - INSTALL PER MFR. SPECS
 - HEARTH TO BE INSTALLED PER FACTORY-BUILT FIREPLACE LISTING
 - GAS APPLIANCE 'B' VENT FROM BELOW
 - LINEN PER SPECS (15" DEEP OR U.N.O.)
 - COAT CLOSET W/ SHELF & POLE (REFER TO DETAIL SHEETS)
 - WARDROBE W/ SHELF & POLE (REFER TO DETAIL SHEETS)
 - 22"x30" MIN. ATTIC ACCESS (REFER TO DETAIL SHEETS) W/ 25"x54" FULL DOWN LADDER R.O. ATTIC ACCESS
 - LINE OF WALL BELOW
 - DUCT CHASE
 - LINE OF FLOOR ABOVE
 - LINE OF FLOOR BELOW
 - LINE OF OPTIONAL TRAY CEILING (REFER TO DETAIL SHEETS)
 - LINE OF HIP AT OPTIONAL VOLUME CEILING
 - LINE OF RIDGE AT OPTIONAL VOLUME CEILING
 - CEILING BREAK
 - STAIR TREADS & RISERS: - MIN. 10" TREAD & MAX. 1 3/4" RISER - (REFER TO DETAIL SHEETS)
 - MIN. 36" HIGH GUARDRAIL (REFER TO DETAIL SHEETS)
 - 34" TO 38" HIGH HANDRAIL (REFER TO DETAIL SHEETS)
 - A/C PAD LOCATION
 - LOW WALL - REFER TO PLAN FOR HEIGHT
 - 2x6 STUD WALL
 - 2x6 BALLOON FRAMED WALL PER STRUCTURAL
 - DEL. 2x4 WALL PER PLAN
 - INTERIOR SHELF-SEE PLAN FOR HT. (REFER TO DETAIL SHEETS)
 - MEDIA NICHE
 - FLAT SOFFIT - REFER TO PLATE NOTES / ELEV. FOR HGT.
 - ARCHED SOFFIT - REFER TO PLATE NOTES / ELEV. FOR HGT.
 - WINDOW SEAT
 - OPT. DOOR/ WINDOW
 - PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) PYPON OR EQ. SURROUNDING STRUCTURAL POST.
 - BRICK / STONE VENEER - REFER TO ELEVATIONS VENEER TO COMPLY WITH THE N.C.R.
 - SECTIONAL GARAGE DOOR PER SPECS
 - MIN. 1/2" GYP. BD. ON CEILINGS & WALLS @ USEABLE SPACE UNDER STAIR
 - GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYP. BD. @ GARAGE SIDE WALLS & 5/8" UNDER LIVING AREA U.N.O.
 - NOT USED
 - 5/8" TYPE-X GYP. IN GARAGE BETWEEN CEILING & FLOOR ABV.
 - P.T. POST W/ VINYL WRAP
 - CONCRETE STOOD. 36"x36" STANDARD SLOPE 1/4" PER FT. MIN.
 - EGRESS WINDOW
 - PROVIDE ADDITIONAL RISER(S) AT OPTIONAL PLATE HT.
 - MDF TOP
 - PLUMBING DROP FROM ABOVE
 - ADJUST OPENING AT OPTION TO FIT THE DOOR SIZE SHOWN
 - WINDOW LEDGE, HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOWS ON ALL SIDES U.N.O.
 - SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
 - CONCRETE SLAB, SLOPE 1/4" PER FT. MIN. SEE PLAN FOR SIZE.
 - LOUVERED DOOR
 - SLOPING LOW WALL 36" ABOVE ADJACENT TREADS
 - 20 MIN. FIRE-RATED DOOR



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**2018 NORTH
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ISSUE DATE: 02/23/17
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REVISIONS: 11/26/19

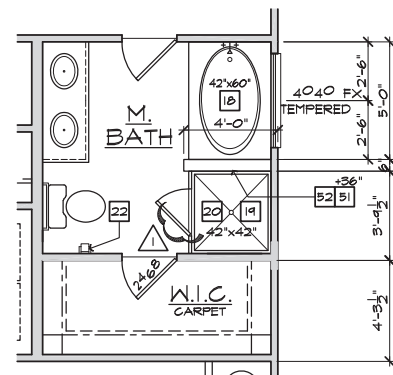
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- 3 DIVISION REVISIONS NC18041NCP/ 9/27/18 CTD
- 4 2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD
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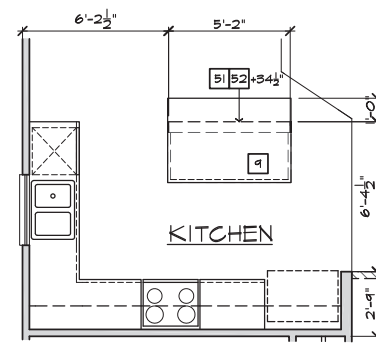
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**SPEC. LEVEL 1
RALEIGH-DURHAM
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SUPER M. BATH
AT MASTER BATH

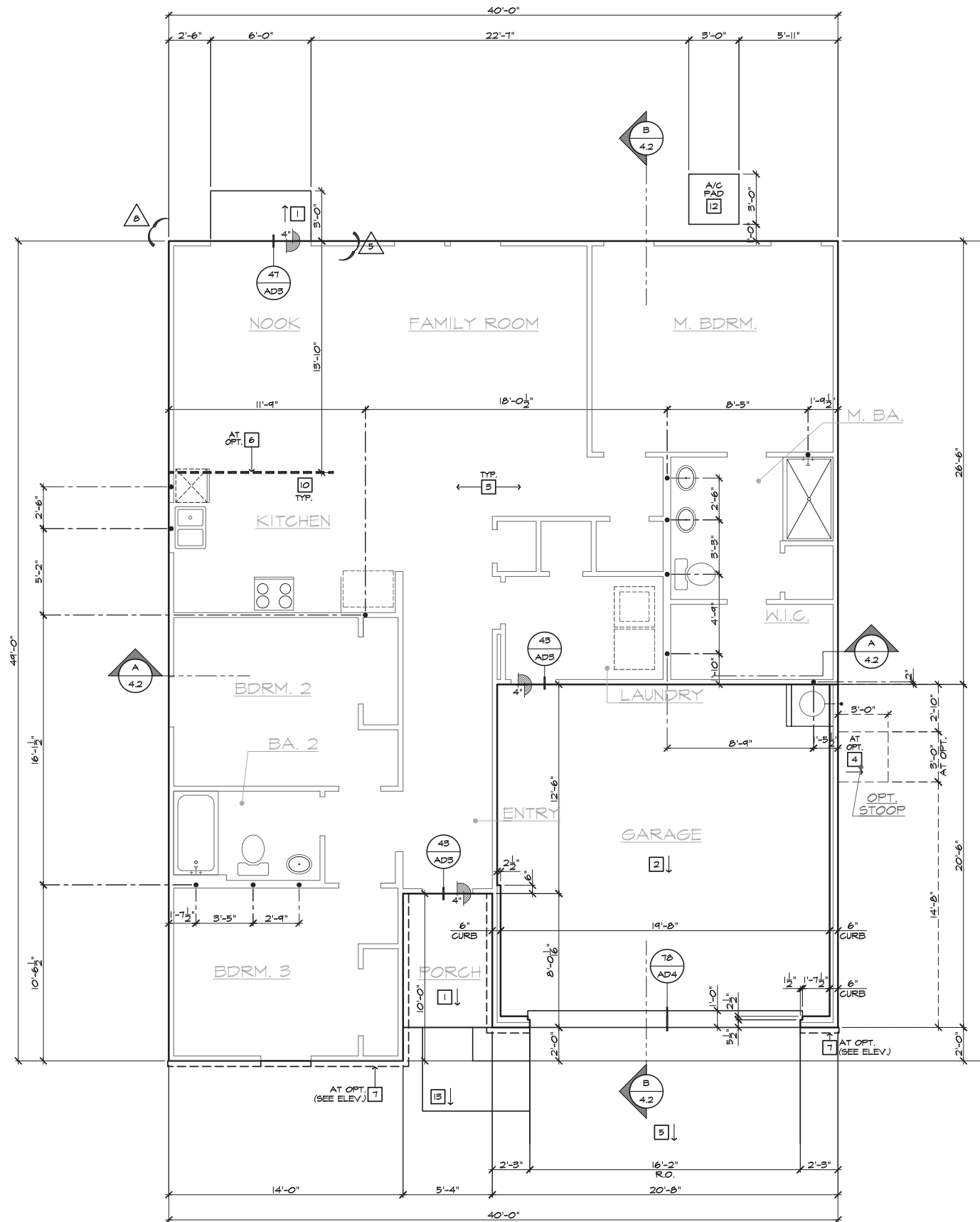


ISLAND
AT KITCHEN

FLOOR PLAN OPTIONS
SCALE: 1/4"=1'-0" (22"x34") - 1/8"=1'-0" (11"x17")

BASIC PLAN

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- SLAB PLAN NOTES**
- NOTE: NOT ALL KEY NOTES APPLY.
1. CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE 1/4" PER FT. MIN.
 2. CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER 1'-0" MIN. TOWARD DOOR OPENING.
 3. CONCRETE FOUNDATION PER STRUCTURAL.
 4. CONCRETE STOOP, 36"x36" STANDARD SLOPE 1/4" PER FT. MIN.
 5. CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.
 6. PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.
 7. 5" BRICK LEDGE FOR MASONRY VENEER.
 8. 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.
 9. REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
 10. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.
 11. 4" MIN. Ø 1/4" MAX. TO HARD SURFACE.
 12. A/C PAD. VERIFY LOCATION.
 13. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.



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**SPEC. LEVEL 1
RALEIGH-DURHAM
40' SERIES**

SLAB INTERFACE PLAN 'A'
SCALE 1/4"=1'-0" (22'x34") - 1/8"=1'-0" (11'x17")

BASIC PLAN AT SLAB-ON-GRADE

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- SLAB PLAN NOTES**
- NOTE: NOT ALL KEY NOTES APPLY.
1. CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE 1/4" PER FT. MIN.
 2. CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER 1'-0" MIN. TOWARD DOOR OPENING.
 3. CONCRETE FOUNDATION PER STRUCTURAL.
 4. CONCRETE STOOP, 36"x36" STANDARD SLOPE 1/4" PER FT. MIN.
 5. CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.
 6. PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.
 7. 5" BRICK LEDGE FOR MASONRY VENEER.
 8. 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.
 9. REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
 10. VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.
 11. 4" MIN. Ø 1/4" MAX. TO HARD SURFACE.
 12. A/C PAD. VERIFY LOCATION.
 13. 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.



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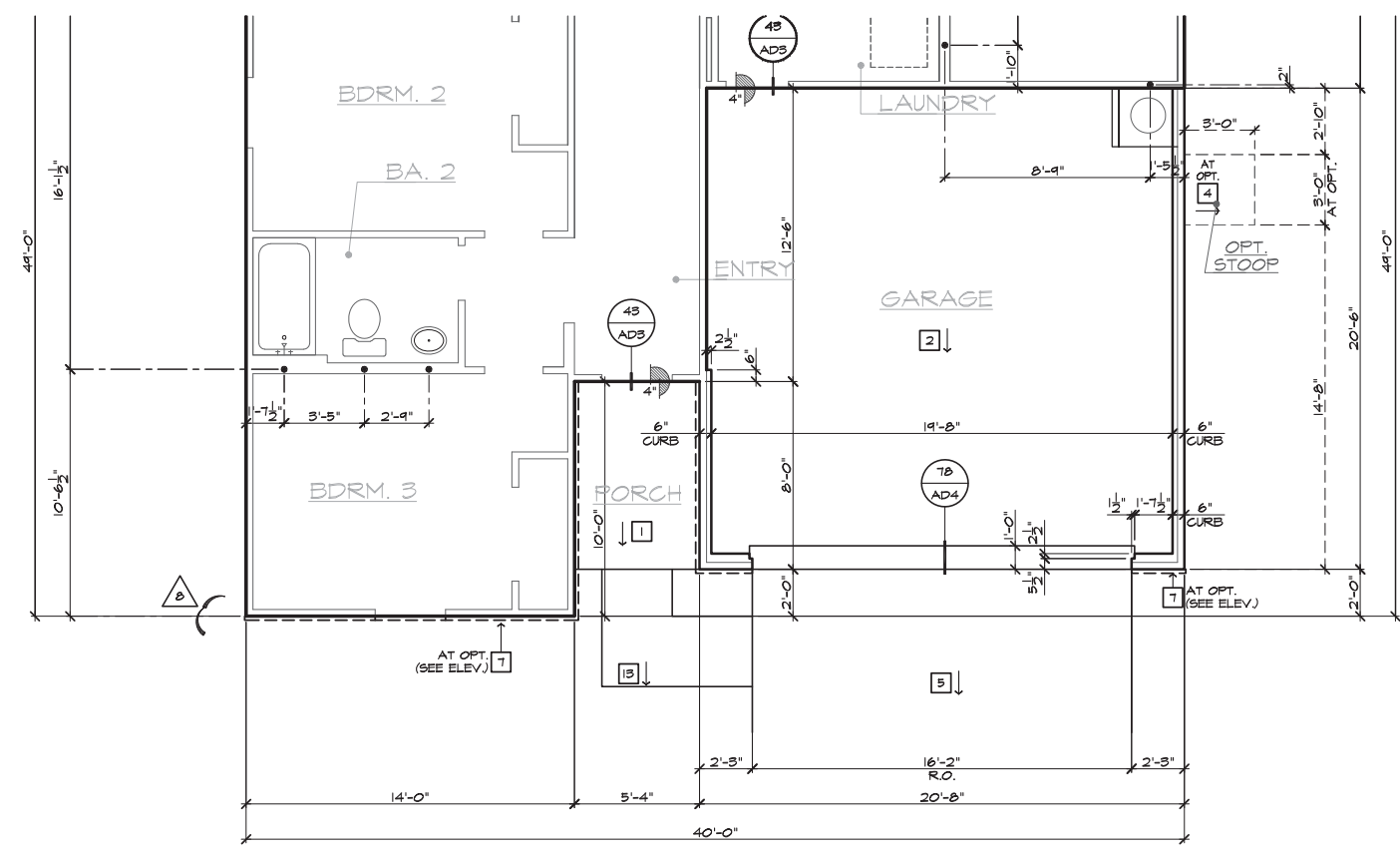
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**SPEC. LEVEL 1
RALEIGH-DURHAM
40' SERIES**

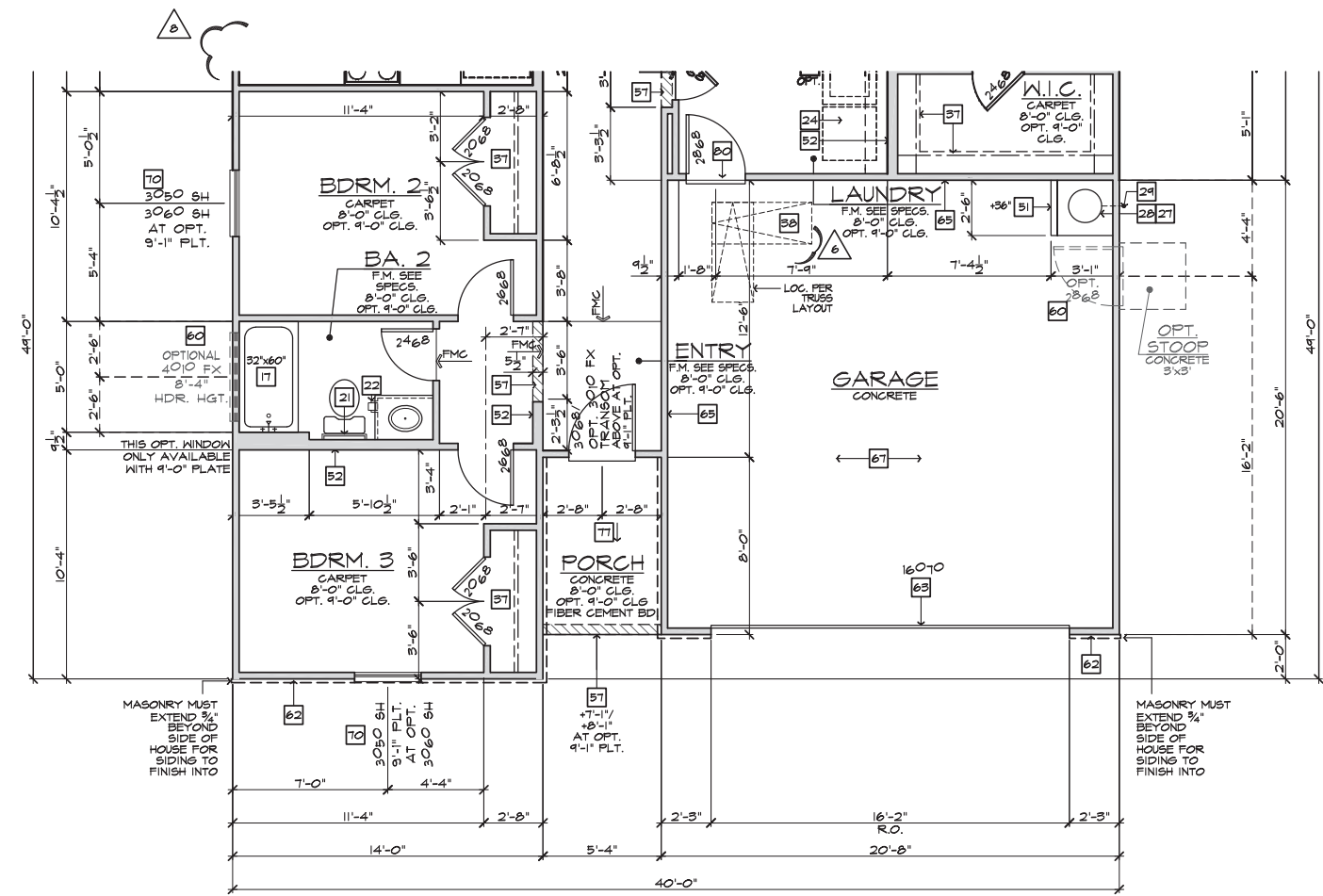


PARTIAL SLAB INTERFACE PLAN 'B'
SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17") BASIC PLAN AT SLAB-ON-GRADE

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- # PARTIAL PLAN NOTES**
- NOTE: NOT ALL KEY NOTES APPLY.
27. WATER HEATER LOCATION - FOR GAS - LOCATE ON 18" HIGH PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN & DRAIN (REFER TO DETAILS)
 28. WATER HEATER VENT TO OUTSIDE AIR
 29. MAIN LINE SHUT-OFF VALVE AND TEMP. & PRESSURE RELIEF VALVE
 39. LINE OF WALL BELOW
 41. LINE OF FLOOR ABOVE
 42. LINE OF FLOOR BELOW
 48. MIN. 36" HIGH GUARDRAIL (REFER TO DETAIL SHEETS)
 50. A/C PAD LOCATION
 51. LOW WALL - REFER TO PLAN FOR HEIGHT
 52. 2x6 STUD WALL
 54. DBL. 2x4 WALL PER PLAN
 55. INTERIOR SHELF - REFER TO PLAN FOR HEIGHT
 57. FLAT SOFFIT
 58. ARCHED SOFFIT
 60. OPT. DOOR/WINDOW
 61. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) TYPON OR EQ. SURROUNDING STRUCTURAL POST.
 62. BRICK / STONE VENEER - REFER TO ELEVATIONS
 63. SECTIONAL GARAGE DOOR PER SPECS
 66. 3" DIAM. CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE. (NOT REQUIRED AT ELECTRIC WATER HEATERS OR FOR APPLIANCES LOCATED OUT OF THE VEHICLE'S NORMAL TRAVEL PATH).
 68. FT. POST W/ VINYL WRAP.
 70. EGRESS WINDOW
 75. WINDOW LEDGE, HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(S) ON ALL SIDES U.N.O.
 76. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
 77. CONCRETE SLAB, SLOPE 1/4" PER FT. MIN. SEE PLAN FOR SIZE



PARTIAL FLOOR PLAN 'B'
SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")

BASIC PLAN

NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE

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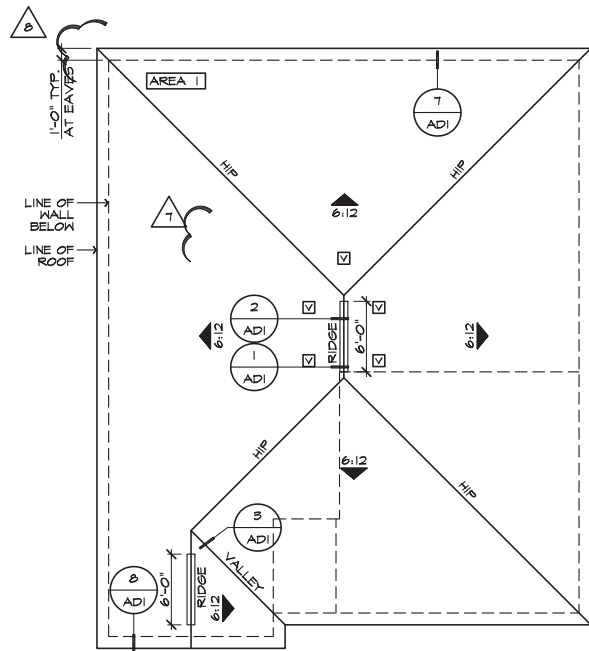
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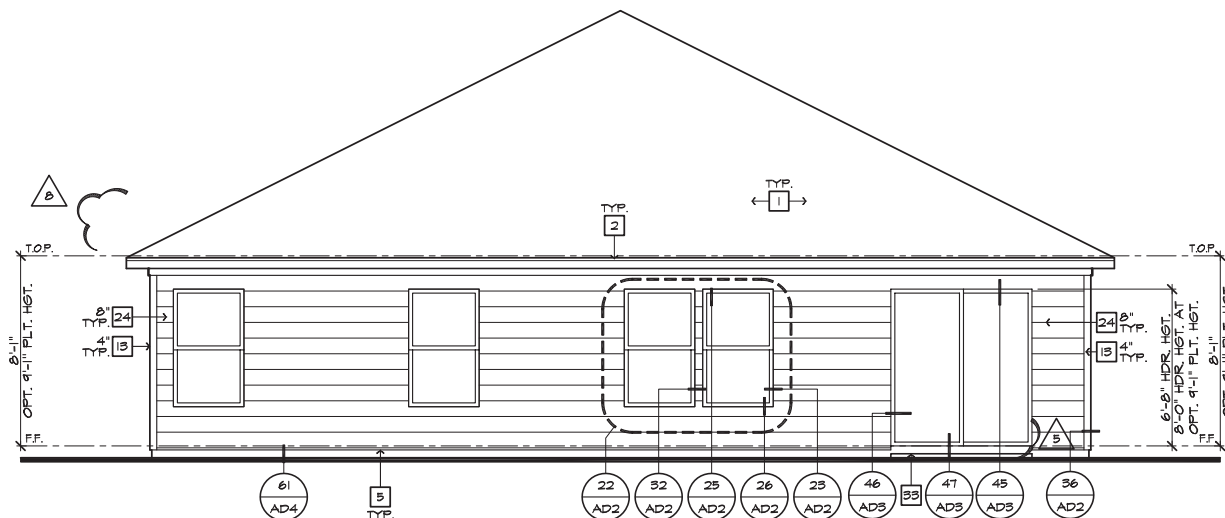
**SPEC. LEVEL 1
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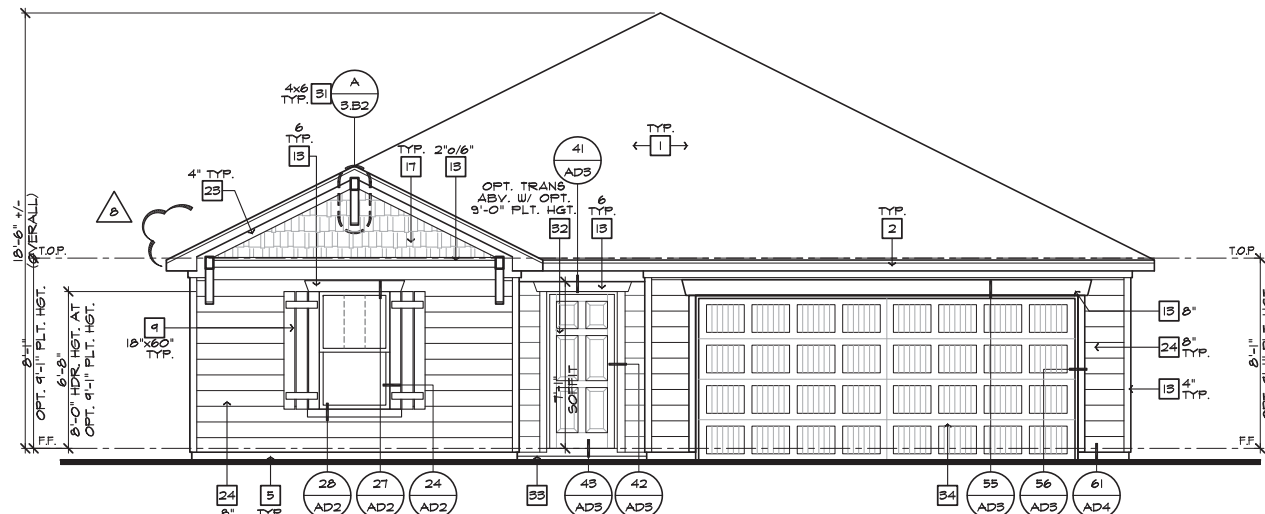
ROOF PLAN 'B'

SCALE 1/8"=1'-0" (22'x34') - 1/16"=1'-0" (11'x17')



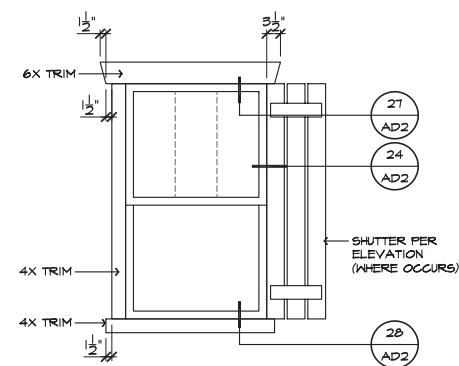
REAR ELEVATION 'B'

SCALE 1/4"=1'-0" (22'x34') - 1/8"=1'-0" (11'x17')



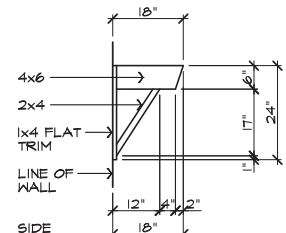
FRONT ELEVATION 'B'

SCALE 1/4"=1'-0" (22'x34') - 1/8"=1'-0" (11'x17')



DETAIL 'B'

SCALE: N.T.S.



DETAIL 'A'

SCALE: N.T.S.

ELEVATION NOTES

- NOTE: NOT ALL KEY NOTES APPLY.**
1. ROOF MATERIAL - REFER TO ROOF NOTES
 2. 2X FASCIA/BARGE BOARD WITH FASCIA CAP
 3. G.I. FLASHING
 4. G.I. FLASHING & SADDLE/CRICKET
 5. G.I. DRIP SCREED
 6. 24"x24" CHIMNEY
 7. DECORATIVE VENT
 8. DECORATIVE CORBEL
 9. DECORATIVE SHUTTERS
 10. PEDIMENT, SEE ELEVATION FOR TYPE
 11. RECESSED ELEMENT
 12. DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE
 13. TRIM - SEE ELEVATION FOR SIZE
 14. SYNTHETIC MATERIAL
 15. PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.
 16. SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
 17. SHAKE SIDING
 18. STONE VENEER PER SPECS
 19. BRICK/MASONRY VENEER PER SPECS
 20. BUILT UP BRICK COLUMN
 21. SOLDIER COURSE
 22. ROWLOCK COURSE
 23. FRIEZE BOARD
 24. SIDING W/ 4" CORNER TRIM PER SPECS
 25. P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE
 26. PRE-FAB DECORATIVE TRIM
 27. LIGHT WEIGHT PRECAST STONE TRIM
 28. RAILINGS (36" U.N.O.)
 29. VINYL WRAP
 30. DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE.
 31. BRACKET OR KICKER - FYPON OR EQ.
 32. ENTRY DOOR
 33. CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.
 34. SECTIONAL GARAGE DOOR PER SPECS
 35. ALUMINUM WRAP
 36. OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS
 37. OPTIONAL STANDING SEAM METAL ROOF
 38. KEYSTONE
 39. SOLDIER CROWN
 40. JACK SOLDIER COURSE
 41. WATER TABLE
 42. ATRIUM DOOR
 43. PILASTER - SEE ELEVATION FOR TYPE

ROOF PLAN NOTES 'B'

6:12 INDICATES ROOF SLOPE AND DIRECTION, U.N.O.

ROOF MATERIAL: COMPOSITION SHINGLE
 12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O.
 12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE, U.N.O.
 LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARWALL PANELS.

ATTIC VENT CALCULATIONS

PROVIDE 1 SQ. IN. OF VENTILATION PER 500 SQ. IN. OF ATTIC SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC. (HIGH VENTING) AT 3'-0" ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED BY EAVE VENTS. (LOW VENTING) (2018 NC-R 806.2)
 * CALCULATION BY 1/50, HIGH/LOW VENTING NOT REQUIRED.
 APPROXIMATE RIDGE VENT LOCATIONS SHOWN. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.

AREA 1 / MAIN	VENTILATION REQUIRED:	ATTIC AREA =	1908	SQ. FT. / 500 =	6.36 SQ. FT.
				x 144 =	916 SQ. IN.
				x 50% =	458 SQ. IN.
VENTILATION PROVIDED:	HIGH	(12) LIN. FEET OF RIDGE VENT AT	18 SQ. IN./FOOT =	216 SQ. IN.	
		(5) ROOF VENTS AT	50 SQ. IN. EA. =	250 SQ. IN.	
		SUBTOTAL HIGH VENTILATION:			466 SQ. IN.
	LOW	(67) LIN. FEET OF VENTILATED SOFFIT	6.9 SQ. IN./FOOT =	462 SQ. IN.	
		(0) ROOF VENTS AT	50 SQ. IN. EA. =	0 SQ. IN.	
		SUBTOTAL LOW VENTILATION:			462 SQ. IN.
		TOTAL VENTILATION PROVIDED:			928 SQ. IN.

NOTES:
 ALL VENT OPENINGS SHALL BE COVERED WITH 1/4" CORROSION RESISTANT METAL MESH.
 FRAMER SHALL BE RESPONSIBLE FOR COORDINATING WITH TRUSS MANUFACTURER TO ACCOMMODATE ALL ATTIC VENTS.
 ALL VENTS SHALL BE INSTALLED SO AS TO MAKE THEM WATER-PROOF & WALL MOUNTED LOUVERS SHALL BE SEALED & FLASHED W/ "MOISTOP" IN THE SAME MANNER PRESCRIBED FOR WINDOW INSTALLATION.
 PROVIDE APPROVED INSULATION DAMS (BAFFLES) WHERE VENT BLOCKS ARE USED BETWEEN ROOF FRAMING MEMBERS TO PREVENT VENT HOLES FROM BEING BLOCKED BY INSULATION.
 LOCATE HIGH VENTING MINIMUM 3'-0" VERTICAL DISTANCE ABOVE EAVES.
 WHEN GABLE END TRUSS MEMBERS BLOCK GABLE END VENTS, PROVIDE ADEQUATE ADDITIONAL VENTILATION BY MEANS OF ROOF TILE VENTS.



NORTH CAROLINA 40' SERIES

KB HOME
 NORTH CAROLINA DIVISION
 4506 S. MIAMI BLVD.
 SUITE 100
 DURHAM, NC 27703
 TEL: (919) 768-7980

2018 NORTH CAROLINA STATE BUILDING CODES

ISSUE DATE: 02/23/17
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 DIVISION MGR.: MCP
 REVISIONS: 11/26/19

- 2 ADD CRAWL SPACE NC18024NCP/ 7/24/18 CTD
- 3 DIVISION REVISIONS NC18041NCP/ 9/27/18 CTD
- 4 2018 CODE UPDATE NC19015NCP/ 03/15/19 / CTD
- 5 DIVISION REVISIONS NC19077NCP/ 03/22/19 / CTD
- 6 DIVISION REVISIONS NC19050NCP/ 08/26/19 / FAB
- 7 UPDATE ATTIC VENT CALC. NC19060NCP/ 08/30/19 / CTD
- 8 DIVISION REVISIONS NC19058NCP/ 11/26/19 / FAB

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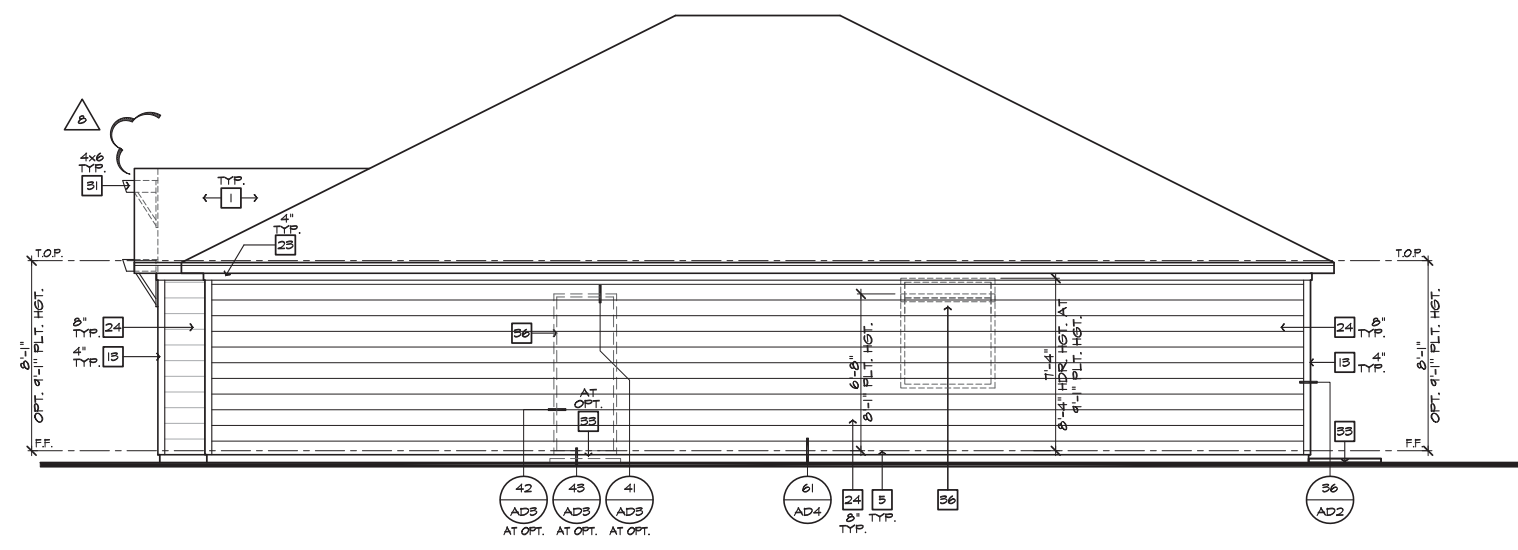
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 SHEET:
3.B2

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

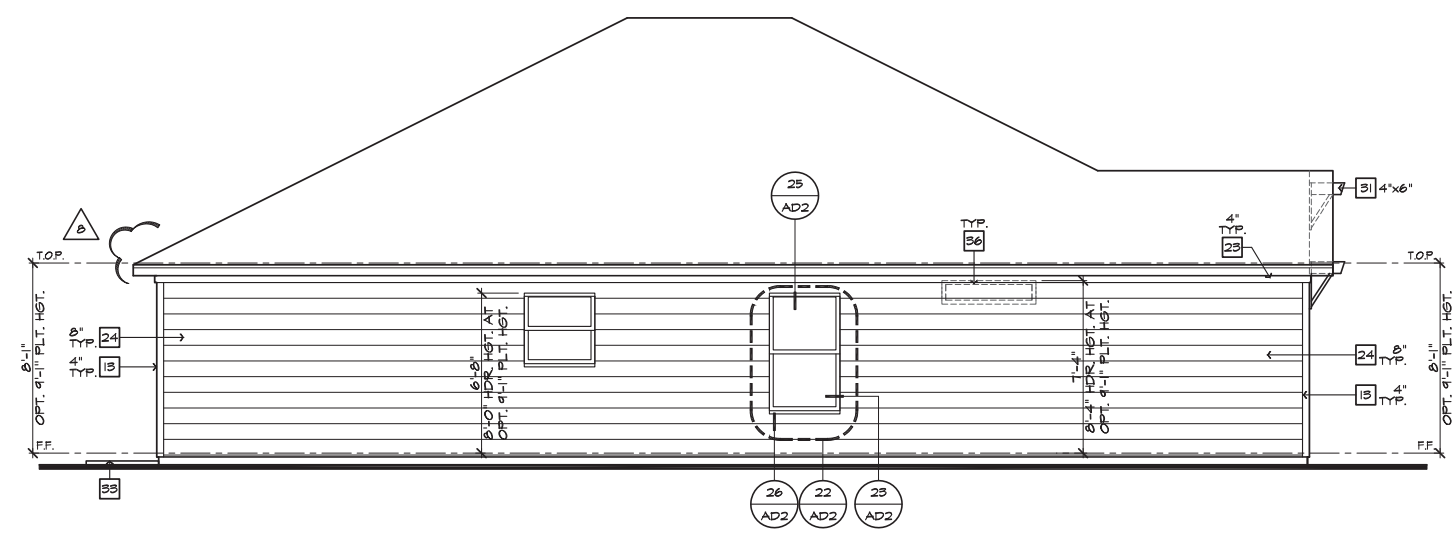
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#	ELEVATION NOTES
NOTE: NOT ALL KEY NOTES APPLY.	
1.	ROOF MATERIAL - REFER TO ROOF NOTES
2.	2X FASCIA/BARGE BOARD WITH FASCIA CAP
3.	G.I. FLASHING
4.	G.I. FLASHING & SADDLE/CRICKET
5.	G.I. DRIP SCREED
6.	24"x24" CHIMNEY
7.	DECORATIVE VENT
8.	DECORATIVE CORBEL
9.	DECORATIVE SHUTTERS
10.	PEDIMENT, SEE ELEVATION FOR TYPE
11.	RECESSED ELEMENT
12.	DECORATIVE TRIM FYFON OR EQ. SEE ELEVATION FOR TYPE
13.	TRIM - SEE ELEVATION FOR SIZE
14.	SYNTHETIC MATERIAL
15.	PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYFON OR EQ. SURROUNDING STRUCTURAL POST.
16.	SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
17.	SHAKE SIDING
18.	STONE VENEER PER SPECS
19.	BRICK/MASONRY VENEER PER SPECS
20.	BUILT UP BRICK COLUMN
21.	SOLDIER COURSE
22.	ROWLOCK COURSE
23.	FRIEZE BOARD
24.	SIDING W/ 4" CORNER TRIM PER SPECS
25.	P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE
26.	PRE-FAB DECORATIVE TRIM
27.	LIGHT WEIGHT PRECAST STONE TRIM
28.	RAILINGS (436" U.N.O.)
29.	VINYL WRAP
30.	DECORATIVE WINDOW/DOOR TRIM - FYFON OR EQ. SEE ELEVATION FOR SIZE.
31.	BRACKET OR KICKER - FYFON OR EQ.
32.	ENTRY DOOR
33.	CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.
34.	SECTIONAL GARAGE DOOR PER SPECS
35.	ALUMINUM WRAP
36.	OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS
37.	OPTIONAL STANDING SEAM METAL ROOF
38.	KEYSTONE
39.	SOLDIER CROWN
40.	JACK SOLDIER COURSE
41.	WATER TABLE
42.	ATRIUM DOOR
43.	PILASTER - SEE ELEVATION FOR TYPE



RIGHT ELEVATION 'B'
SCALE 1/4"=1'-0" (22'x34") - 1/8"=1'-0" (11'x17")



LEFT ELEVATION 'B'
SCALE 1/4"=1'-0" (22'x34") - 1/8"=1'-0" (11'x17")

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PLAN:
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SHEET:
3.B3

**SPEC. LEVEL 1
RALEIGH-DURHAM
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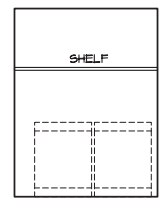
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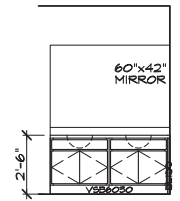
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SHEET:
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**SPEC. LEVEL 1
RALEIGH-DURHAM
40' SERIES**

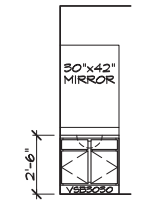


B
LAUNDRY

LAUNDRY AND MISCELLANEOUS CABINETS

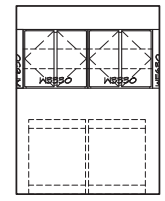


D
MASTER BATH

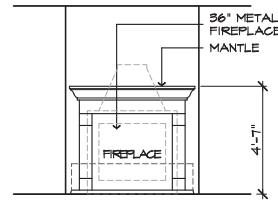


C
BATH 2

BATH CABINETS

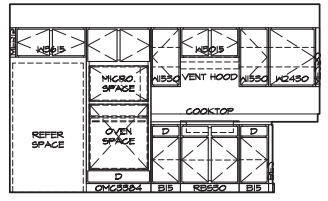


B
LAUNDRY
Opt. Upper & Lower
Cabinets

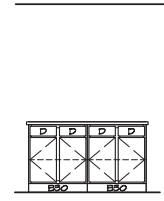


B
FAMILY ROOM
w/ Fireplace

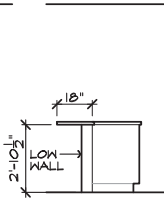
LAUNDRY AND MISCELLANEOUS CABINETS



C
KITCHEN
Gourmet



A
KITCHEN
Island

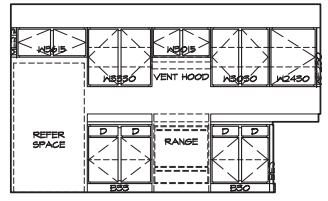


B
KITCHEN
Island

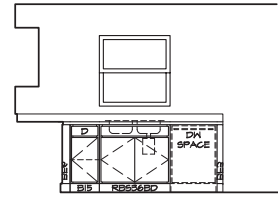
KITCHEN CABINETS

OPTIONAL INTERIOR ELEVATIONS

SCALE: 1/4"=1'-0" (22'x34") - 1/8"=1'-0" (11'x17")



C
KITCHEN



D
KITCHEN

KITCHEN CABINETS

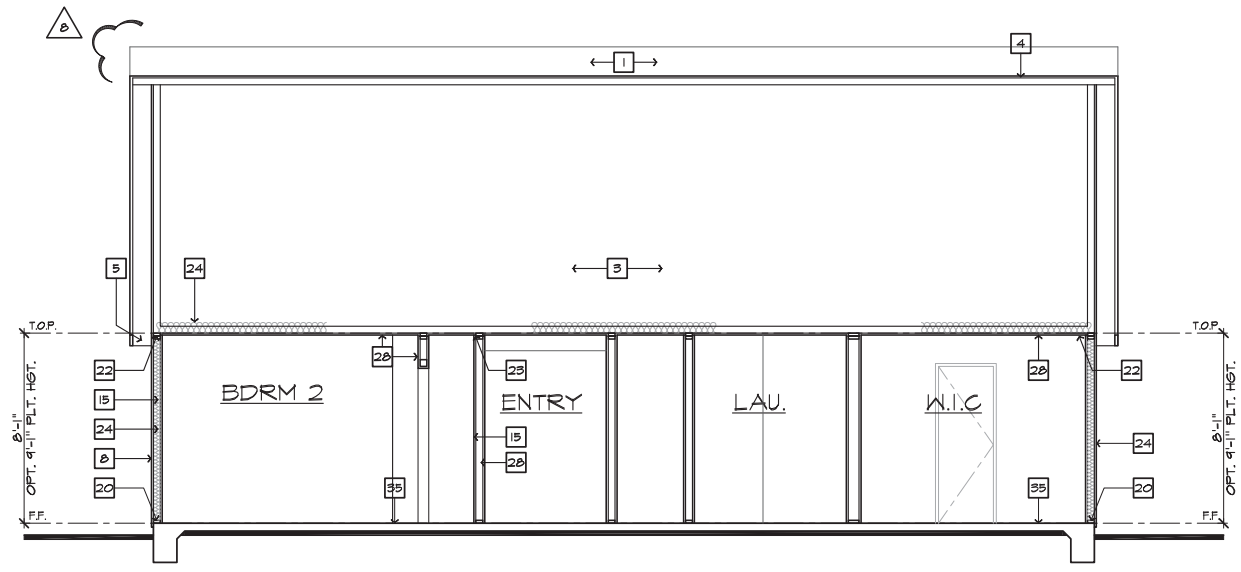
STANDARD INTERIOR ELEVATIONS

SCALE: 1/4"=1'-0" (22'x34") - 1/8"=1'-0" (11'x17")

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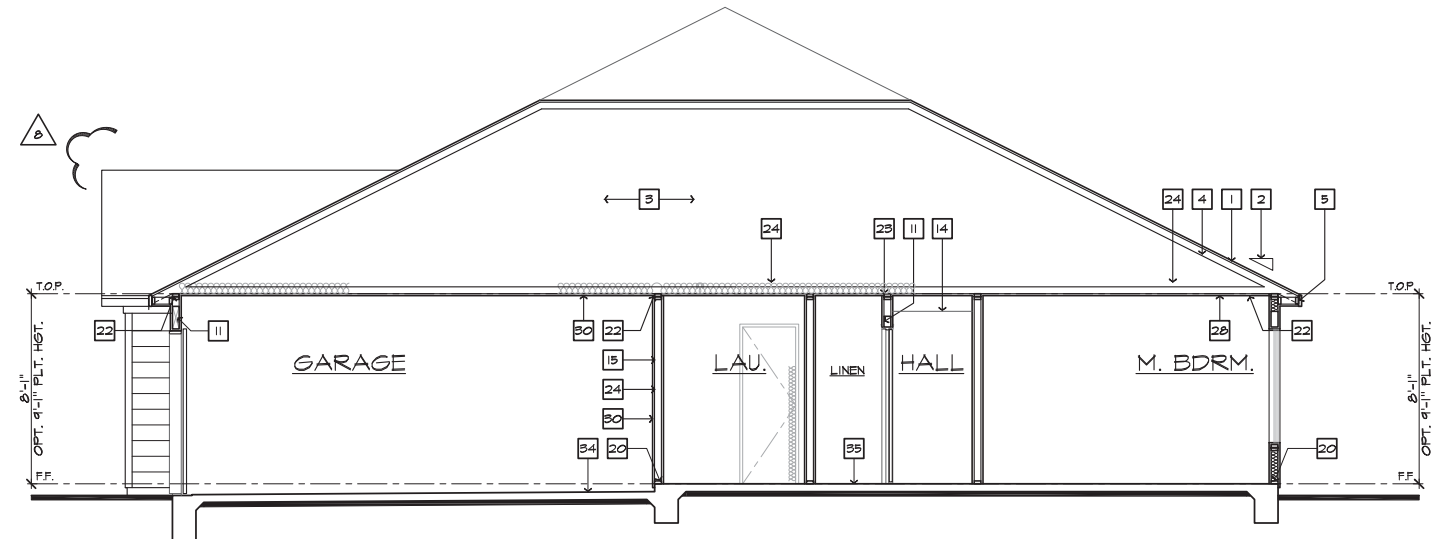


- # SECTION NOTES**
- NOTE: NOT ALL KEY NOTES APPLY.
1. ROOF MATERIAL - REFER TO ROOF NOTES
 2. ROOF PITCH - REFER TO ROOF NOTES
 3. PRE-MANUFACTURED WOOD ROOF TRUSS SYSTEM - SEE STRUCTURAL & TRUSS CALCS
 4. ROOF SHEATHING PER STRUCTURAL
 5. 2x FASCIA/BARGE BOARD
 6. CONT. SOFFITED EAVE W/ VENTING
 7. G.I. FLASHING - ROOF TO WALL
 8. EXTERIOR FINISH PER ELEVATIONS
 9. FLOOR FRAMING PER STRUCTURAL
 10. FLOOR SHEATHING PER STRUCTURAL
 11. HEADER PER STRUCTURAL
 12. FLUSH BEAM PER STRUCTURAL
 13. DROPPED BEAM PER STRUCTURAL
 14. FLAT/ ARCHED SOFFIT PER PLAN
 15. 2x4 STUD WALL
 16. 2x6 STUD WALL
 17. 2x6 BALLOON FRAMED WALL PER STRUCTURAL
 18. DEL. 2x4 WALL PER PLAN
 19. 2x CRIPPLES @ 16" O.C.
 20. 2x PRESSURE TREATED SILL PLATE
 21. 2x SOLE PLATE
 22. DEL. 2x TOP PLATE @ EXTERIOR & BEARING WALLS
 23. 1x OVER 2x TOP PLATE @ INTERIOR & NON-BEARING WALLS
 24. INSULATION MATERIAL PER ENERGY CALCULATIONS
 25. MIN. 36" HIGH GUARD - SEE PLAN FOR HEIGHT
 26. LOW WALL - SEE PLAN FOR HEIGHT
 27. STAIR TREADS AND RISERS PER PLAN. - MIN. 10" TREAD & MAX. 7 5/4" RISER
 28. INTERIOR FINISH - MIN. 1/2" GYP. BD. @ WALLS & SAG RESISTANT OR 5/8" DRYWALL @ CEILING
 29. MIN. 1/2" GYP. BD. ON CEILING & WALLS @ USEABLE SPACE UNDER STAIRS.
 30. GARAGE SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYP. BD. @ GARAGE SIDE WALLS & 5/8" UNDER LIVING AREA UNO.
 31. MATERIAL TO UNDERSIDE OF ROOF SHEATHING
 32. INTERIOR SHELF - MIN. 1/2" GYP. BD. OVER 5/8" PLY HD.
 33. CONCRETE PATIO/ PORCH SLAB PER STRUCTURAL - SLOPE 1/4" PER FT. MIN.
 34. CONCRETE GARAGE SLAB PER STRUCTURAL - SLOPE 2" MIN.
 35. CONCRETE FOUNDATION PER STRUCTURAL
 36. LINE OF OPTIONAL TRAY CEILING/ STEP CEILING
 37. LINE OF OPTIONAL VOLUME CEILING
 38. PROFILE OF OPTIONAL COVERED PATIO
 39. EXTERIOR SOFFIT MATERIAL - REFER TO ELEVATIONS.
 40. 8" BLOCK WALL
 41. 5/8" TYPE-X DRYWALL @ GARAGE CEILING
 42. WHEN THERE IS USABLE SPACE ABOVE AND BELOW THE CONCEALED SPACE OF A FLOOR-CEILING ASSEMBLY IN A SINGLE-FAMILY DWELLING, DRAFT STOPS SHALL BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED 1000 SQUARE FEET. DRAFTSTOPPINGS SHALL DIVIDE THE CONCEALED SPACE INTO APPROXIMATELY EQUAL AREAS.



SECTION "A"
SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")

AT SLAB-ON-GRADE



SECTION "B"
SCALE 1/4"=1'-0" (22"X34") - 1/8"=1'-0" (11"X17")

AT SLAB-ON-GRADE

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**SPEC. LEVEL 1
RALEIGH-DURHAM
40' SERIES**

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SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

UTILITY LEGEND 2008 IBC-2011 NEC

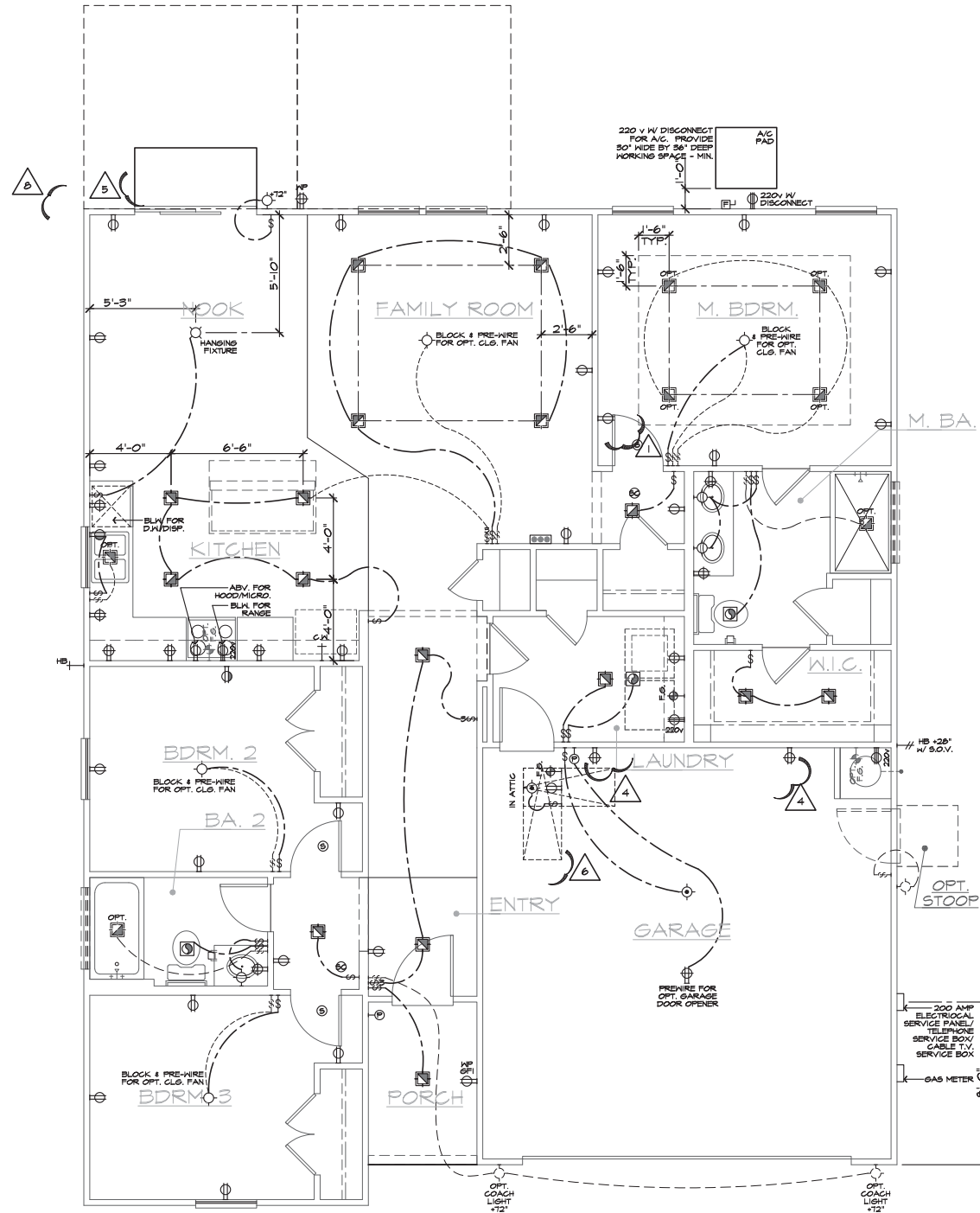
	120V DUPLEX CONVENIENCE RECEPTACLE ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12" ABV. FIN. FLR. TYPICAL UNO.
	120V (TR) RECEPTACLE W/ GFI CIRCUIT W/ WATER RESISTANT HOUSING
	120V (TR) RECEPTACLE W/ GFI CIRCUIT
	FUSED DISCONNECT
	120V (AFCI & TR) RECESSED FLOOR RECEPTACLE W/ COVER
	120V (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE SWITCH CONTROLLED, 1/2 HOT
	220V SINGLE CONVENIENCE RECEPTACLE HEIGHT NOTED AS PER PLAN
	TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR. 8" ABOVE COUNTER UNO.
	THREE-POLE LIGHT SWITCH
	FOUR-POLE LIGHT SWITCH
	WALL MOUNTED LIGHT FIXTURE W/ WATER RESISTANT HOUSING
	WALL MOUNTED INCANDESCENT LIGHT FIXTURE
	WALL MOUNTED FLUORESCENT LIGHT FIXTURE
	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
	CEILING MOUNTED FLUORESCENT LIGHT FIXTURE
	HANGING INCANDESCENT LIGHT FIXTURE
	RECESSED INCANDESCENT DIRECTIONAL LIGHT FIXTURE (EYE BALL)
	RECESSED INCANDESCENT LIGHT FIXTURE LIGHTING - TRAVERSE II LED FIXTURE - PER SPECS
	RECESSED INCANDESCENT LIGHT FIXTURE W/ WATER RESISTANT HOUSING
	RECESSED FLUORESCENT LIGHT FIXTURE
	RECESSED EXHAUST FAN
	RECESSED EXHAUST FAN/ INCANDESCENT LIGHT COMBINATION
	RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION
	INCANDESCENT WALL SCONCE
	ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET
	24"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)
	12"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)
	OPTIONAL PRE-WIRED CEILING FAN AND SWITCH - LOCATED IN CENTER OF ROOM UNO.
	CEILING MOUNTED JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	DOOR CHIME
	CATV RECEPTACLE
	PUSH BUTTON
	PHONE OUTLET
	SERVICE BOX
	HOSE BIB
	HOSE BIB W/ S.O.V.
	WATER STUB FOR ICE MAKER
	APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED
	APPROVED CARBON MONOXIDE ALARM/ SMOKE DET.
	THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN)
	GAS TAP
	GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET

SWITCHING FOR ROOMS W/ CLG. FAN OPTIONS

24" MIN. SEPARATION OF ELECTRICAL BOXES AS SHOWN BELOW

NOTES

- MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENGINEERED BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND PLACEMENT. ALL HEIGHTS SHOWN ARE TO CENTERLINE OF FIXTURE.
- PROVIDE SWITCH, LIGHT, 120V (AFCI & TR) DUPLEX RECEPTACLE & FUEL GAS STUB OR 220V RECEPTACLE IN ATTIC FOR F.A.U. - PER COMMUNITY SPECIFICATIONS.
- SMOKE DETECTORS IN ROOMS WITH VOLUME CEILING TO BE LOCATED AT HIGHEST POINT OF CEILING
- 20 FOOT #4 REBAR FOR UFER GROUND AND ADDITIONAL COLD WATER GROUND. REFER TO SLAB INTERFACE PLAN FOR LOCATION.
- 200 AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL PLAN CHECK PERMIT REQUIRED IF LOAD EXCEED 400 AMPS.



UTILITY PLAN

SCALE 1/4"=1'-0" (22"x34") - 1/8"=1'-0" (11"x17")

BASIC PLAN



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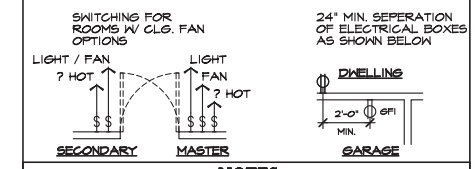
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**SPEC. LEVEL 1
RALEIGH-DURHAM
40' SERIES**

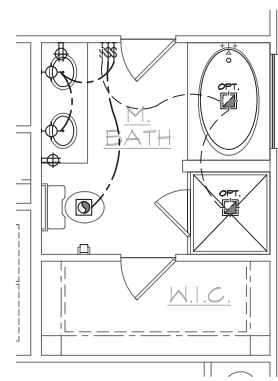
UTILITY LEGEND

- ⊕ 120V DUPLEX CONVENIENCE RECEPTACLE
ARC FAULT(AFCI) AND TAMPER RESISTANT(TR)
12" ABV. FIN. FLR. TYPICAL UNO.
- ⊕ W/ GFI 120V (TR) RECEPTACLE W/ GFI CIRCUIT
W/ WATER RESISTANT HOUSING
- ⊕ W/ GFI 120V (TR) RECEPTACLE W/ GFI CIRCUIT
- ⊕ FUSED DISCONNECT
- 120V (AFCI & TR) RECESSED FLOOR
RECEPTACLE W/ COVER
- ⊕ 120V (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE
SWITCH CONTROLLED, 1/2 HOT
- ⊕ 220 v 220V SINGLE CONVENIENCE RECEPTACLE
HEIGHT NOTED AS PER PLAN
- ⊕ 2 TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR.
8" ABOVE COUNTER UNO.
- ⊕ 3 THREE-POLE LIGHT SWITCH
- ⊕ 4 FOUR-POLE LIGHT SWITCH
- ⊕ W.P. WALL MOUNTED LIGHT FIXTURE
W/ WATER RESISTANT HOUSING
- ⊕ WALL MOUNTED INCANDESCENT
LIGHT FIXTURE
- ⊕ WALL MOUNTED FLUORESCENT
LIGHT FIXTURE
- ⊕ CEILING MOUNTED INCANDESCENT
LIGHT FIXTURE
- ⊕ CEILING MOUNTED FLUORESCENT
LIGHT FIXTURE
- ⊕ HANGING INCANDESCENT
LIGHT FIXTURE
- ⊕ RECESSED INCANDESCENT DIRECTIONAL
LIGHT FIXTURE (EYE BALL)
- ⊕ RECESSED INCANDESCENT LIGHT FIXTURE
LIGHTING - TRAVERSE II LED FIXTURE -
PER SPECS
- ⊕ W.P. RECESSED INCANDESCENT LIGHT FIXTURE
W/ WATER RESISTANT HOUSING
- ⊕ RECESSED FLUORESCENT LIGHT FIXTURE
- ⊕ RECESSED EXHAUST FAN
- ⊕ RECESSED EXHAUST FAN/ INCANDESCENT
LIGHT COMBINATION
- ⊕ RECESSED EXHAUST FAN/ FLUORESCENT
LIGHT COMBINATION
- ⊕ INCANDESCENT WALL SCONCE
-] ILLUMINATED ADDRESS SIGN - VISIBLE
FROM STREET
- ⊕ 24"x48" FLUORESCENT LIGHT
BOX (CEILING MOUNTED)
- ⊕ 12"x48" FLUORESCENT LIGHT
BOX (CEILING MOUNTED)
- ⊕ OPTIONAL PRE-WIRED CEILING FAN
AND SWITCH - LOCATED IN CENTER OF ROOM UNO.
- ⊕ CEILING MOUNTED JUNCTION BOX
- ⊕ WALL MOUNTED JUNCTION BOX
- ⊕ DOOR CHIME
- ⊕ CATV RECEPTACLE
- ⊕ PUSH BUTTON
- ⊕ PHONE OUTLET
-] SERVICE BOX
- ⊕ HOSE BIB
- ⊕ HOSE BIB W/ S.O.V.
- ⊕ WATER STUB FOR ICE MAKER
- ⊕ APPROVED CEILING MOUNTED
SMOKE DETECTOR TO BE HARD WIRED
WITH BATTERY BACK-UP AND INTERCONNECTED
- ⊕ APPROVED CARBON MONOXIDE ALARM/ SMOKE DET.
- ⊕ THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN)
- ⊕ GAS TAP
- ⊕ GAS KEY - FIREPLACE GAS VALVES SHALL BE
LOCATED OUTSIDE OF REQUIRED HEARTH AREA,
BUT NO MORE THAN 48" FROM GAS OUTLET

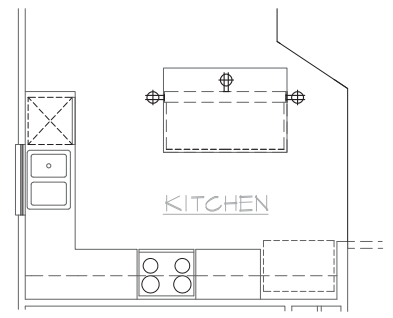


NOTES

- MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS ARE SHOWN FOR INTENT ONLY. THESE SYSTEMS SHALL BE ENGINEERED BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND PLACEMENT. ALL HEIGHTS SHOWN ARE TO CENTERLINE OF FIXTURE.
- PROVIDE SWITCH, LIGHT, 120V (AFCI & TR) DUPLEX RECEPTACLE & FUEL GAS STUB OR 220V RECEPTACLE IN ATTIC FOR F.A.U. - PER COMMUNITY SPECIFICATIONS.
- SMOKE DETECTORS IN ROOMS WITH VOLUME CEILING TO BE LOCATED AT HIGHEST POINT OF CEILING
- 20 FOOT #4 REBAR FOR UFER GROUND AND ADDITIONAL COLD WATER GROUND. REFER TO SLAB INTERFACE PLAN FOR LOCATION.
- 200 AMP ELECTRICAL PANEL (DEFAULT). ELECTRICAL PLAN CHECK PERMIT REQUIRED IF LOAD EXCEED 400 AMPS.



SUPER M. BATH
AT MASTER BATH

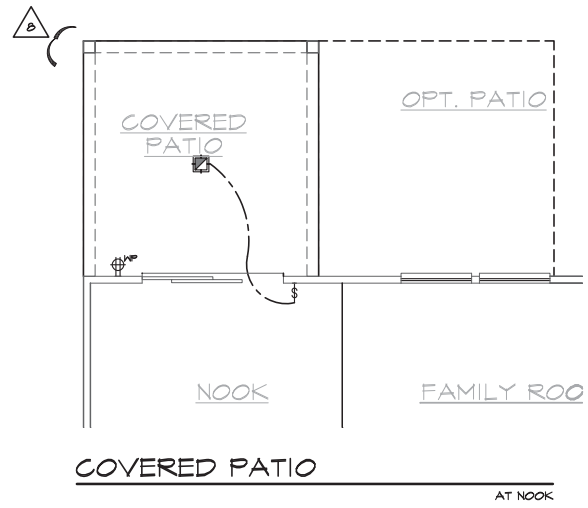


ISLAND
AT KITCHEN

UTILITY PLAN OPTIONS
SCALE 1/4"=1'-0" (22"x34") - 1/8"=1'-0" (11"x17")

BASIC PLAN

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UTILITY LEGEND	
	120V DUPLEX CONVENIENCE RECEPTACLE ARC FAULT(AFCI) AND TAMPER RESISTANT(TR) 12" ABV. FIN. FLR. TYPICAL UNO.
	120V (TR) RECEPTACLE W/ GFI CIRCUIT W/ WATER RESISTANT HOUSING
	120V (TR) RECEPTACLE W/ GFI CIRCUIT
	FUSED DISCONNECT
	120V (AFCI & TR) RECESSED FLOOR RECEPTACLE W/ COVER
	120V (AFCI & TR) DUPLEX CONVENIENCE RECEPTACLE SWITCH CONTROLLED, 1/2 HOT
	220V SINGLE CONVENIENCE RECEPTACLE HEIGHT NOTED AS PER PLAN
	TWO-POLE LIGHT SWITCH AT 42" ABV. FIN. FLR. 8" ABOVE COUNTER UNO.
	THREE-POLE LIGHT SWITCH
	FOUR-POLE LIGHT SWITCH
	WALL MOUNTED LIGHT FIXTURE W/ WATER RESISTANT HOUSING
	WALL MOUNTED INCANDESCENT LIGHT FIXTURE
	WALL MOUNTED FLUORESCENT LIGHT FIXTURE
	CEILING MOUNTED INCANDESCENT LIGHT FIXTURE
	CEILING MOUNTED FLUORESCENT LIGHT FIXTURE
	HANGING INCANDESCENT LIGHT FIXTURE
	RECESSED INCANDESCENT DIRECTIONAL LIGHT FIXTURE (EYE BALL)
	RECESSED INCANDESCENT LIGHT FIXTURE LIGHTING - TRAVERSE II LED FIXTURE - PER SPECS
	RECESSED INCANDESCENT LIGHT FIXTURE W/ WATER RESISTANT HOUSING
	RECESSED FLUORESCENT LIGHT FIXTURE
	RECESSED EXHAUST FAN
	RECESSED EXHAUST FAN/ INCANDESCENT LIGHT COMBINATION
	RECESSED EXHAUST FAN/ FLUORESCENT LIGHT COMBINATION
	INCANDESCENT WALL SCONCE
	ILLUMINATED ADDRESS SIGN - VISIBLE FROM STREET
	24"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)
	12"x48" FLUORESCENT LIGHT BOX (CEILING MOUNTED)
	OPTIONAL PRE-WIRED CEILING FAN AND SWITCH - LOCATED IN CENTER OF ROOM UNO.
	CEILING MOUNTED JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	DOOR CHIME
	CATY RECEPTACLE
	PUSH BUTTON
	PHONE OUTLET
	SERVICE BOX
	HOSE BIB
	HOSE BIB W/ S.O.V.
	WATER STUB FOR ICE MAKER
	APPROVED CEILING MOUNTED SMOKE DETECTOR TO BE HARD WIRED WITH BATTERY BACK-UP AND INTERCONNECTED
	APPROVED CARBON MONOXIDE ALARM/ SMOKE DET.
	THERMOSTAT (VERIFY LOCATION W/ HVAC PLAN)
	GAS TAP
	GAS KEY - FIREPLACE GAS VALVES SHALL BE LOCATED OUTSIDE OF REQUIRED HEARTH AREA, BUT NO MORE THAN 48" FROM GAS OUTLET
	SWITCHING FOR ROOMS W/ CLG. FAN OPTIONS
	24" MIN. SEPERATION OF ELECTRICAL BOXES AS SHOWN BELOW

- NOTES**
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NORTH CAROLINA 40' SERIES

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2018 NORTH CAROLINA STATE BUILDING CODES

ISSUE DATE: 02/23/17
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- 2 ADD CRAWL SPACE NC18024NCP- 7/24/18 CTD
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- 8 DIVISION REVISIONS NC19053NCP/ 11/26/19 / FAB

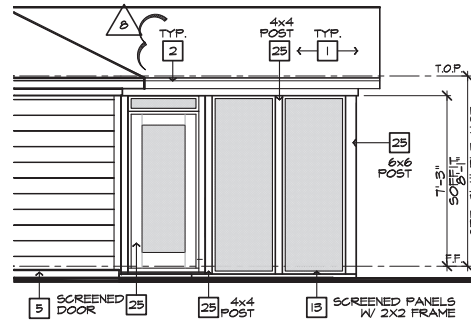
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PLAN:
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SHEET:
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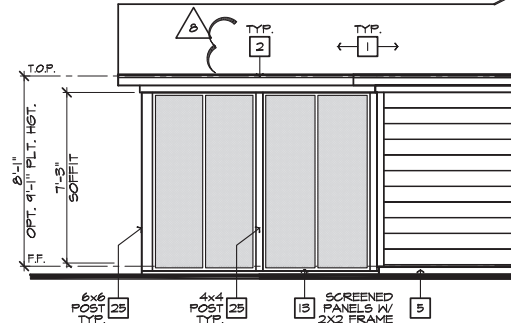
SPEC. LEVEL 1
RALEIGH-DURHAM 40' SERIES

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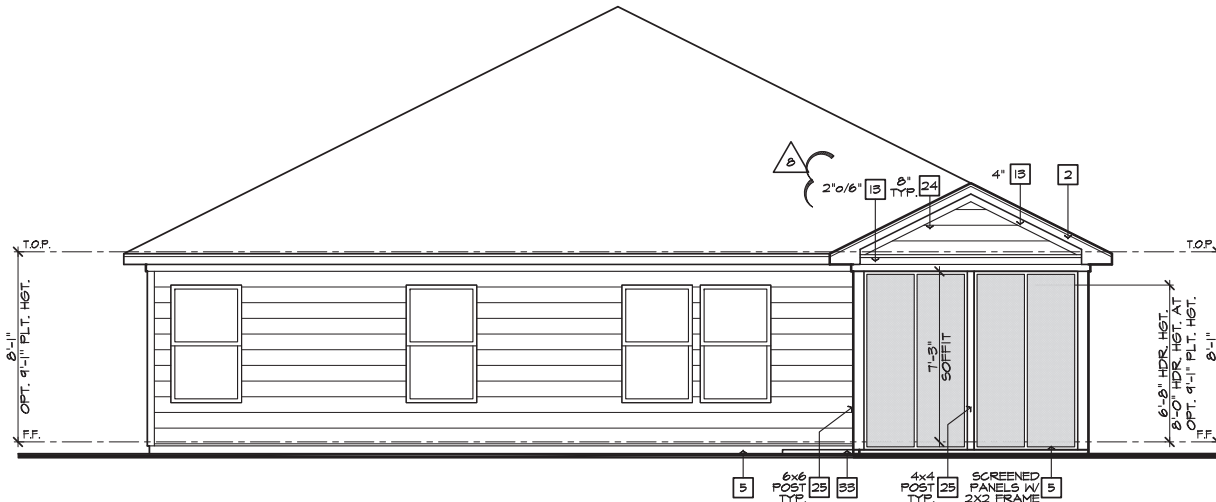
PARTIAL RIGHT ELEVATION

SCALE 1/4"=1'-0" (22'x34") - 1/8"=1'-0" (11'x17")



PARTIAL LEFT ELEVATION

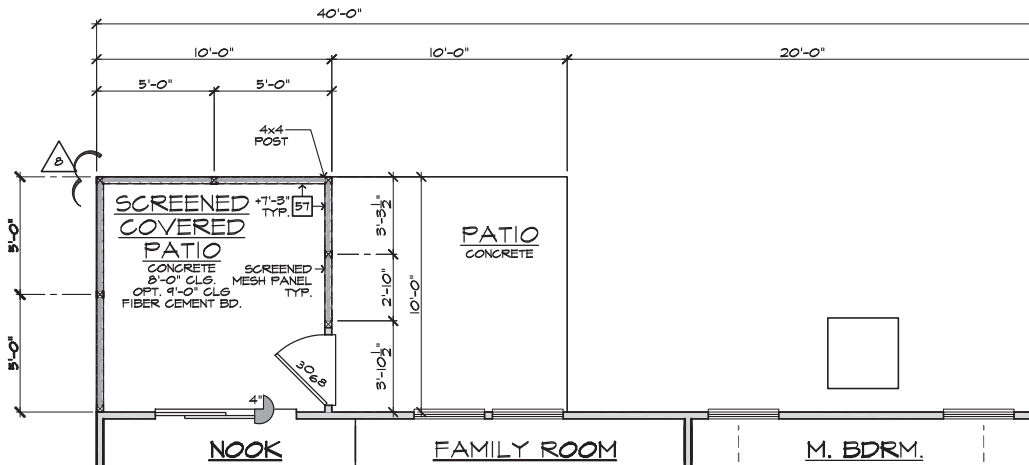
SCALE 1/4"=1'-0" (22'x34") - 1/8"=1'-0" (11'x17")



REAR ELEVATION

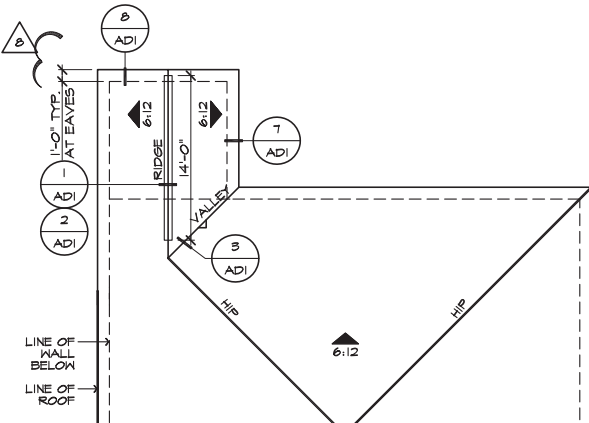
SCALE 1/4"=1'-0" (22'x34") - 1/8"=1'-0" (11'x17")

ROOF PLAN NOTES 'B'	
INDICATES ROOF SLOPE AND DIRECTION, U.N.O.	
6:12	
ROOF MATERIAL: COMPOSITION SHINGLE	
12" (INCHES) TYPICAL ROOF OVERHANG AT RAKE, U.N.O.	
12" (INCHES) TYPICAL ROOF OVERHANG AT EAVE, U.N.O.	
LOCATE EAVE/ RAFTER VENTS EQUALLY BALANCED AROUND HOUSE EXCEPT ABOVE SHEARWALL PANELS.	
ATTIC VENT CALCULATIONS	
PROVIDE 1 SQ. IN. OF VENTILATION PER 500 SQ. IN. OF ATTIC SPACE. PROVIDE THAT AT LEAST 50% & NO MORE THAN 80% OF THE REQ. VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE ATTIC. (HIGH VENTING) AT 3'-0" ABOVE EAVE VENT WITH THE BALANCE BEING PROVIDED BY EAVE VENTS. (LOW VENTING) (2018 N.C.-R 806.2) * CALCULATION BY 1/50, HIGH/LOW VENTING NOT REQUIRED.	
APPROXIMATE RIDGE VENT LOCATIONS SHOWN. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD.	
AREA 1 / MAIN W/ 10'x10' COVERED PATIO	
VENTILATION REQUIRED:	
ATTIC AREA = 2008	SQ. FT. / 500 = 6.64 SQ. FT.
	X 144 = 957 SQ. IN.
	X 50% = 478 SQ. IN.
VENTILATION PROVIDED:	
HIGH	
(26) LIN. FEET OF RIDGE VENT AT	18 SQ. IN./FOOT = 468 SQ. IN.
(1) ROOF VENT(S) AT	50 SQ. IN. EA. = 50 SQ. IN.
SUBTOTAL HIGH VENTILATION:	518 SQ. IN.
LOW	
(70) LIN. FEET OF VENTILATED SOFFIT	6.9 SQ. IN./FOOT = 483 SQ. IN.
(0) ROOF VENT(S) AT	50 SQ. IN. EA. = 0 SQ. IN.
SUBTOTAL LOW VENTILATION:	483 SQ. IN.
TOTAL VENTILATION PROVIDED:	1001 SQ. IN.



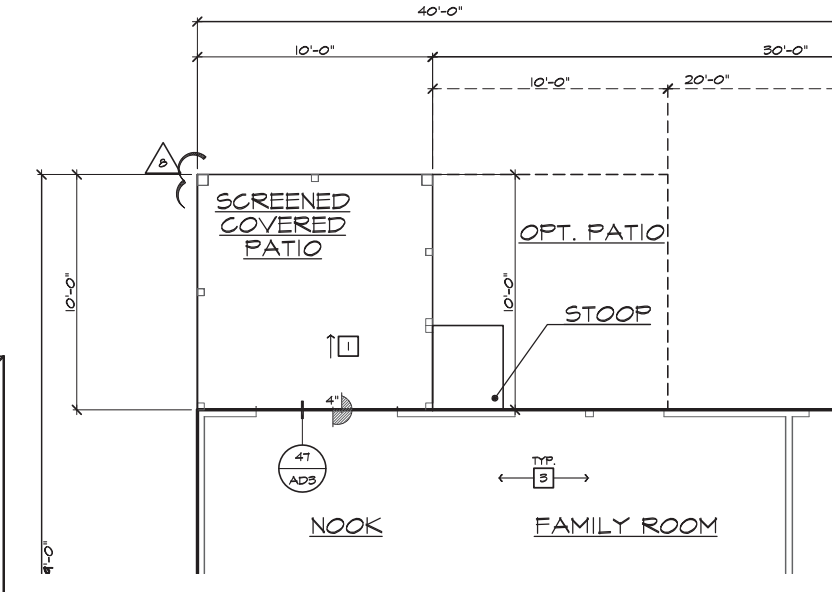
PARTIAL FIRST FLOOR PLAN

COVERED SCREENED PATIO W/ EXT. SLAB



PARTIAL ROOF PLAN

SCALE 1/4"=1'-0" (22'x34") - 1/8"=1'-0" (11'x17")



PARTIAL SLAB INTERFACE PLAN

SCALE 1/4"=1'-0" (22'x34") - 1/8"=1'-0" (11'x17")

- ELEVATION NOTES**
- NOTE: NOT ALL KEY NOTES APPLY.
- ROOF MATERIAL - REFER TO ROOF NOTES
 - 2X FASCIA/BARGE BOARD WITH FASCIA CAP
 - G.I. FLASHING
 - G.I. FLASHING & SADDLE/CRICKET
 - G.I. DRIP SCREED
 - 24"x24" CHIMNEY
 - DECORATIVE VENT
 - DECORATIVE CORBEL
 - DECORATIVE SHUTTERS
 - LEDIMENT, SEE ELEVATION FOR TYPE
 - RECESSED ELEMENT
 - DECORATIVE TRIM FYPON OR EQ. SEE ELEVATION FOR TYPE
 - TRIM - SEE ELEVATION FOR SIZE
 - SYNTHETIC MATERIAL
 - PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.
 - SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
 - SHAKE SIDING
 - STONE VENEER PER SPECS
 - BRICK/MASONRY VENEER PER SPECS
 - BUILT UP BRICK COLUMN
 - SOLDIER COURSE
 - ROWLOCK COURSE
 - FRIEZE BOARD
 - SIDING W/ 4" CORNER TRIM PER SPECS
 - P.T. POST W/ WRAP - SEE STRUCTURAL FOR SIZE
 - PRE-FAB DECORATIVE TRIM
 - LIGHT WEIGHT PRECAST STONE TRIM
 - RAILINGS (36" U.N.O.)
 - VINYL WRAP
 - DECORATIVE WINDOW/DOOR TRIM - FYPON OR EQ. SEE ELEVATION FOR SIZE
 - BRACKET OR KICKER - FYPON OR EQ.
 - ENTRY DOOR
 - CONCRETE STOOP/ PORCH - SEE SLAB INTERFACE PLAN.
 - SECTIONAL GARAGE DOOR PER SPECS
 - ALUMINUM WRAP
 - OPTIONAL DOOR/WINDOW - REFER TO PLAN OPTIONS
 - OPTIONAL STANDING SEAM METAL ROOF
 - KEYSTONE
 - SOLDIER CROWN
 - JACK SOLDIER COURSE
 - WATER TABLE
 - ATRILUM DOOR
 - PILASTER - SEE ELEVATION FOR TYPE

- PARTIAL PLAN NOTES**
- NOTE: NOT ALL KEY NOTES APPLY.
- WATER HEATER LOCATION - FOR GAS - LOCATE ON 18" HIGH PLATFORM - FOR INTERIOR LOCATION - PROVIDE PAN & DRAIN (REFER TO DETAILS)
 - WATER HEATER VENT TO OUTSIDE AIR
 - MAIN LINE SHUT-OFF VALVE AND TEMP. & PRESSURE RELIEF VALVE
 - LINE OF WALL BELOW
 - LINE OF FLOOR ABOVE
 - LINE OF HIGH RAIL (REFER TO DETAIL SHEETS)
 - A/C PAD LOCATION
 - LOW WALL - REFER TO PLAN FOR HEIGHT
 - 2x6 STUD WALL
 - DEL. 2x4 WALL PER PLAN
 - INTERIOR SHELF - REFER TO PLAN FOR HEIGHT
 - FLAT SOFFIT
 - ARCHED SOFFIT
 - OPT. DOOR/WINDOW
 - PRE-MANUFACTURED DECORATIVE COLUMN (SIZE, SEE ELEV.) FYPON OR EQ. SURROUNDING STRUCTURAL POST.
 - BRICK / STONE VENEER - REFER TO ELEVATIONS
 - SECTIONAL GARAGE DOOR PER SPECS
 - 3" DIAM. CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE. (NOT REQUIRED AT ELECTRIC WATER HEATERS OR FOR APPLIANCES LOCATED OUT OF THE VEHICLE'S NORMAL TRAVEL PATH).
 - P.T. POST W/ VINYL WRAP.
 - EGRESS WINDOW
 - WINDOW LEDGE, HEIGHT & WIDTH OF OPENING TO EXTEND 6" BEYOND WINDOW(S) ON ALL SIDES U.N.O.
 - SITE-BUILT COLUMN - SEE ELEVATION FOR TYPE
 - CONCRETE SLAB, SLOPE 1/4" PER FT. MIN. SEE PLAN FOR SIZE

- SLAB PLAN NOTES**
- NOTE: NOT ALL KEY NOTES APPLY.
- CONCRETE PATIO/PORCH SLAB PER STRUCTURAL- SLOPE 1/4" PER FT. MIN.
 - CONCRETE GARAGE SLAB PER STRUCTURAL- SLOPE 1/8" PER 1'-0" MIN. TOWARD DOOR OPENING.
 - CONCRETE FOUNDATION PER STRUCTURAL.
 - CONCRETE STOOP, 36"x36" STANDARD SLOPE 1/4" PER FT. MIN.
 - CONCRETE DRIVEWAY SLOPE 1/4" PER FT. MIN. AWAY FROM GARAGE DOOR OPENING.
 - PROVIDE ELECTRICAL CONDUIT UNDER SLAB AT ISLAND. VERIFY LOCATION.
 - 5" BRICK LEDGE FOR MASONRY VENEER.
 - 3" DIAMETER CONCRETE FILLED PIPE BOLLARD 36" HIGH WITH MIN. 12" EMBEDMENT INTO CONCRETE.
 - REFER TO CIVIL DRAWINGS FOR ALL FINISH SURFACE ELEVATIONS.
 - VERIFY ALL PLUMBING STUB DIMENSIONS SHOWN HERE PRIOR TO POUR OF SLAB.
 - 4" MIN. Ø 1/4" MAX. TO HARD SURFACE.
 - A/C PAD. VERIFY LOCATION.
 - 36" WIDE WALKWAY- SLOPE 1/4" PER FT. MIN.



NORTH CAROLINA 40' SERIES

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SUITE 100
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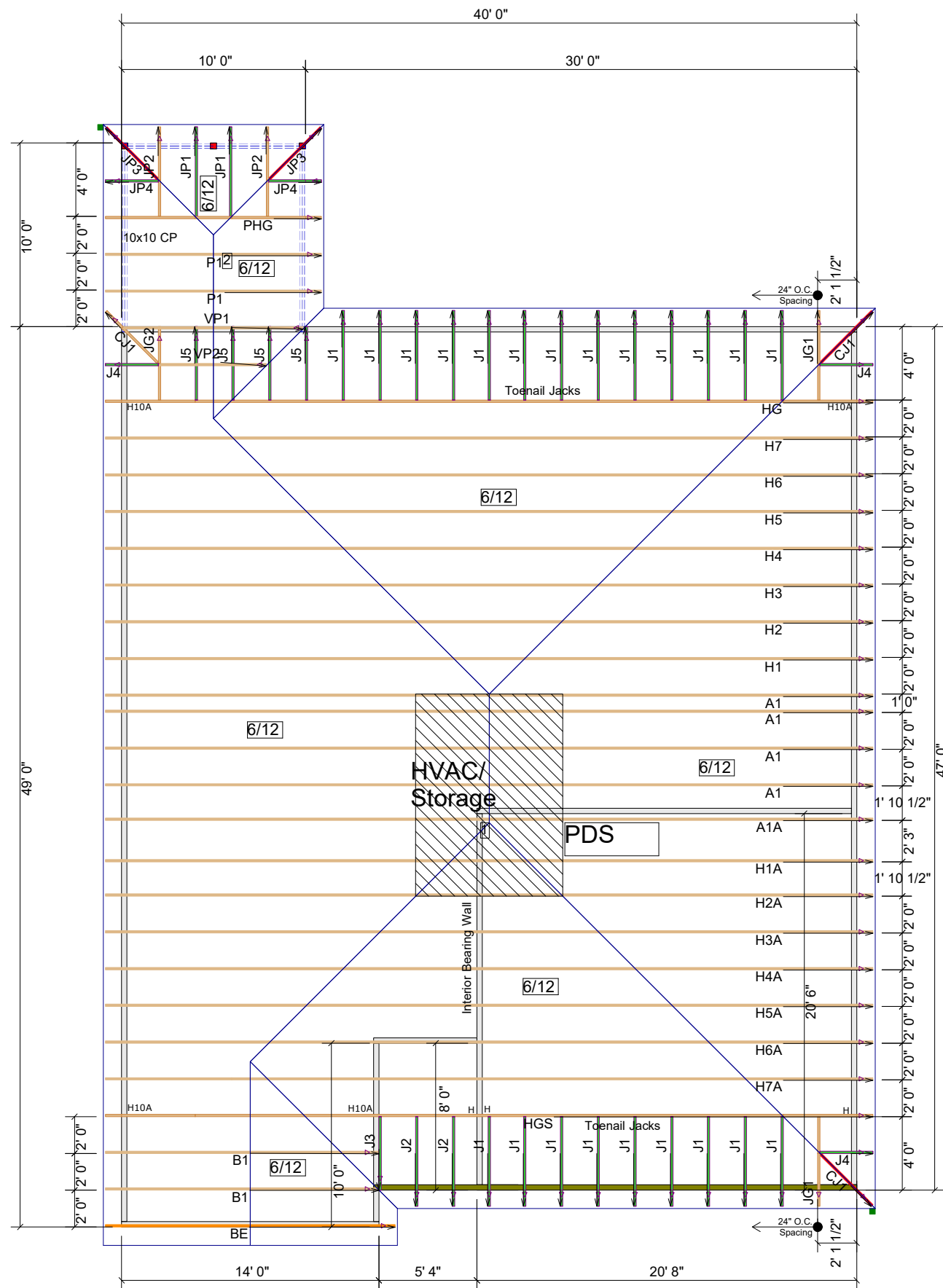
PLAN: 140.1445-R
SHEET: 8.B3

SPEC. LEVEL 1 RALEIGH-DURHAM 40' SERIES

- NOTE: REFER TO BASIC ROOF PLAN FOR INFORMATION NOT SHOWN HERE
- NOTE: REFER TO BASIC ELEVATIONS FOR INFORMATION NOT SHOWN HERE
- NOTE: REFER TO BASIC FLOOR PLAN FOR INFORMATION NOT SHOWN HERE
- NOTE: REFER TO BASIC SLAB PLAN FOR INFORMATION NOT SHOWN HERE

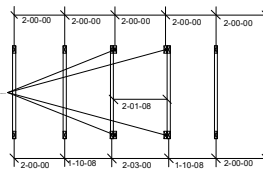
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THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.



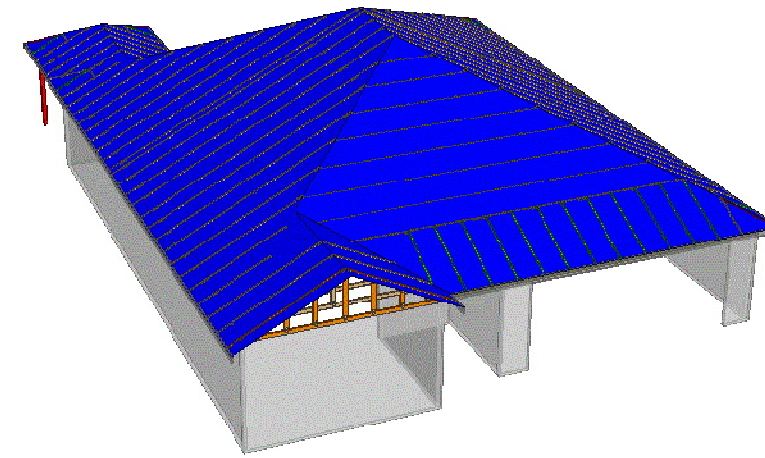
THE PURPOSE OF THIS DETAIL IS TO ILLUSTRATE HOW TO PROPERLY SPACE 24" O.C. ROOF TRUSSES TO ALLOW FOR A 25 1/2" OPENING FOR PULL DOWN ATTIC ACCESS

TRUSSES TO BE DESIGNED AT 24" ON CENTER



TRUSS LAYOUT DIMENSIONS AT PULL-DOWN ATTIC ACCESS

Layout Spacing is set for PDS-alt. If PDS in laundry is used, spacing can be adjusted in field for 25 1/2" Do not adjust spacing for H1A-Hip Roof



DEDICATED TO QUALITY AND EXCELLENCE
200 EMMETT ROAD
DUNN, NORTH CAROLINA 28334
PHONE: 910-892-8400
FAX: 910-892-8384

PROJECT:	Lot 15 @ Mason Pointe		
CUSTOMER:	KB HOME		
MODEL:	Plan 140.1445 "B" With 10x10cyp		
SCALE:	NOT TO SCALE	P.O. NUMBER:	23413A
DRAWN BY:	MWM	REV:	XXXXX
		PRINT DATE:	2/17/20
		SHIP DATE:	2020

TOP LIVE: 20 PSF
TOP DEAD: 10 PSF
BOTM DEAD: 10 PSF
WIND SPD: 130 MPH

HANGER LIST

H2.5A- As Info	Simpson	H2.5A	110
H	Simpson	HTS20	3
H10A	Simpson	H10A	4

GENERAL NOTES:
DO NOT CUT OR MODIFY TRUSSES.
TRUSSES ARE SPACED 24" ON CENTER UNLESS NOTED OTHERWISE.
REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS.
PER ANSI TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLACEMENT PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.

NOTE: ALL CHAPTERS, SECTIONS, TABLES, AND FIGURES CITED WITHOUT A PUBLICATION TITLE ARE FROM THE APPLICABLE RESIDENTIAL CODE (SEE TITLE SHEET).

GENERAL

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. FURTHERMORE, CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND SAFETY ON SITE. NOTIFY JDS CONSULTING & DESIGN, PLLC IMMEDIATELY IF DISCREPANCIES ON PLAN EXIST.

2. BRACED-WALL DESIGN IS BASED ON SECTION R602.10 - WALL BRACING. PRIMARY PRESCRIPTIVE METHOD TO BE CS-WSP. SEE WALL BRACING PLANS AND DETAILS FOR ADDITIONAL INFORMATION.

ALL NON-PRESCRIPTIVE SOLUTIONS ARE BASED ON GUIDELINES ESTABLISHED IN THE AMERICAN SOCIETY OF CIVIL ENGINEERS PUBLICATION ASCE 7 AND THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION - SPECIAL DESIGN PROVISIONS FOR WIND AND SEISMIC.

3. SEISMIC DESIGN SHALL BE PER SECTION R301.2.2 - SEISMIC PROVISIONS, INCLUDING ASSOCIATED TABLES AND FIGURES, BASED ON LOCAL SEISMIC DESIGN CATEGORY.

DESIGN LOADS

ASSUMED SOIL BEARING-CAPACITY 2,000 PSF

	LIVE LOAD
ULTIMATE DESIGN WIND SPEED	115 MPH, EXPOSURE B
GROUND SNOW	15 PSF
ROOF	20 PSF

RESIDENTIAL CODE TABLE R301.5	LIVE LOAD (PSF)
DWELLING UNITS	40
SLEEPING ROOMS	30
ATTICS WITH STORAGE	20
ATTICS WITHOUT STORAGE	10
STAIRS	40
DECKS	40
EXTERIOR BALCONIES	60
PASSENGER VEHICLE GARAGES	50
FIRE ESCAPES	40
GUARDS AND HANDRAILS	200 (pounds, concentrated)

COMPONENT AND CLADDING LOADS, INCLUDING THOSE FOR DOORS AND WINDOWS, SHALL BE DERIVED FROM TABLES R301.2(2) AND R301.2(3) FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 35 FEET, LOCATED IN EXPOSURE B.

ABBREVIATIONS

ABV	ABOVE	KS	KING STUD COLUMN
AFF	ABOVE FINISHED FLOOR	LVL	LAMINATED VENEER LUMBER
ALT	ALTERNATE	MAX	MAXIMUM
BRG	BEARING	MECH	MECHANICAL
BSMT	BASEMENT	MFR	MANUFACTURER
CANT	CANTILEVER	MIN	MINIMUM
CJ	CEILING JOIST	NTS	NOT TO SCALE
CLG	CEILING	OA	OVERALL
CMU	CONCRETE MASONRY UNIT	OC	ON CENTER
CO	CASED OPENING	PT	PRESSURE TREATED
COL	COLUMN	R	RISER
CONC	CONCRETE	REF	REFRIGERATOR
CONT	CONTINUOUS	RFG	ROOFING
D	CLOTHES DRYER	RO	ROUGH OPENING
DBL	DOUBLE	RS	ROOF SUPPORT
DIAM	DIAMETER	SC	STUD COLUMN
DJ	DOUBLE JOIST	SF	SQUARE FOOT (FEET)
DN	DOWN	SH	SHELF / SHELVES
DP	DEEP	SHTG	SHEATHING
DR	DOUBLE RAFTER	SHW	SHOWER
DSP	DOUBLE STUD POCKET	SIM	SIMILAR
EA	EACH	SJ	SINGLE JOIST
EE	EACH END	SP	STUD POCKET
EQ	EQUAL	SPEC'D	SPECIFIED
EX	EXTERIOR	SQ	SQUARE
FAU	FORCED-AIR UNIT	T	TREAD
FDN	FOUNDATION	TEMP	TEMPERED GLASS
FF	FINISHED FLOOR	THK	THICK(NESS)
FLR	FLOOR(ING)	TJ	TRIPLE JOIST
FP	FIREPLACE	TOC	TOP OF CURB / CONCRETE
FTG	FOOTING	TR	TRIPLE RAFTER
HB	HOSE BIBB	TYP	TYPICAL
HDR	HEADER	UNO	UNLESS NOTED OTHERWISE
HGR	HANGER	W	CLOTHES WASHER
JS	JACK STUD COLUMN	WH	WATER HEATER
		WWF	WELDED WIRE FABRIC
		XJ	EXTRA JOIST

MATERIALS

1. INTERIOR / TRIMMED FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES (#2 SOUTHERN YELLOW PINE MAY BE SUBSTITUTED):

Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI

2. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED #2 SOUTHERN YELLOW PINE (SYP) WITH THE FOLLOWING DESIGN PROPERTIES:

Fb = 975 PSI Fv = 95 PSI E = 1.6E6 PSI

3. LVL STRUCTURAL MEMBERS TO BE LAMINATED VENEER LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2600 PSI Fv = 285 PSI E = 1.9E6 PSI

4. PSL STRUCTURAL MEMBERS TO BE PARALLEL STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2900 PSI Fv = 290 PSI E = 2.0E6 PSI

5. LSL STRUCTURAL MEMBERS TO BE LAMINATED STRAND LUMBER WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:

Fb = 2250 PSI Fv = 400 PSI E = 1.55E6 PSI

6. STRUCTURAL STEEL WIDE-FLANGE BEAMS SHALL CONFORM TO ASTM A992. Fy = 50 KSI

7. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615, GRADE 60.

8. POURED CONCRETE COMPRESSIVE STRENGTH TO BE A MINIMUM 3,000 PSI AT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN AMERICAN CONCRETE INSTITUTE STANDARD ACI 318 OR ASTM C1157.

9. CONCRETE SUBJECT TO MODERATE OR SEVERE WEATHERING PROBABILITY PER TABLE R301.2(1) SHALL BE AIR-ENTRAINED WHEN REQUIRED BY TABLE R402.2.

10. CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND THE MASONRY SOCIETY PUBLICATION TMS 402/602: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES.

11. MORTAR SHALL COMPLY WITH ASTM INTERNATIONAL STANDARD C270.

12. INDICATED MODEL NUMBERS FOR ALL METAL HANGERS, STRAPS, FRAMING CONNECTORS, AND HOLD-DOWNS ARE SIMPSON STRONG-TIE BRAND. EQUIVALENT USP BRAND PRODUCTS ARE ACCEPTABLE.

13. REFER TO I-JOIST EQUIVALENCE CHART ON I-JOIST DETAIL SHEET FOR SUBSTITUTION OF MANUFACTURER SERIES.

FOUNDATION

1. MINIMUM ALLOWABLE SOIL BEARING CAPACITY IS ASSUMED TO BE 2,000 PSF. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY IF UNSATISFACTORY CONDITIONS EXIST.

2. CONCRETE FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 OR AMERICAN CONCRETE INSTITUTE STANDARD ACI 318.

3. MASONRY FOUNDATION WALLS TO BE SELECTED AND CONSTRUCTED PER SECTION R404 AND/OR AMERICAN CONCRETE INSTITUTE PUBLICATION 530: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND COMPANION COMMENTARIES AND/OR THE MASONRY SOCIETY PUBLICATION TMS 402/602: BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES.

4. CONCRETE WALL HORIZONTAL REINFORCEMENT TO BE PER TABLE R404.1.2(1) OR AS NOTED OR DETAILED. CONCRETE WALL VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.2(3 AND 4) OR AS NOTED OR DETAILED. ALL CONCRETE WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.

- A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
- B. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405.

5. PLAIN-MASONRY WALL DESIGN TO BE PER TABLE R404.1.1(1) OR AS NOTED OR DETAILED. MASONRY WALLS WITH VERTICAL REINFORCEMENT TO BE PER TABLES R404.1.1 (2 THROUGH 4) OR AS NOTED OR DETAILED. ALL MASONRY WALLS SHALL COMPLY WITH APPLICABLE PROVISIONS OF CHAPTER 6.

- A. TABLES ASSUME THAT WALLS HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM.
- B. WALL REINFORCING SHALL BE PLACED ACCORDING TO FOOTNOTE (c) OF THE TABLES (REINFORCING IS NOT CENTERED IN WALL).
- C. FOUNDATION DRAINS ARE ASSUMED AT ALL WALLS PER SECTION R405.

6. WOOD SILL PLATES TO BE ANCHORED TO THE FOUNDATION WITH 1/2" DIAMETER ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" OC AND WITHIN 12" FROM THE ENDS OF EACH PLATE SECTION. INSTALL MINIMUM (2) ANCHOR BOLTS PER SECTION. SEE SECTION R403.1.6 FOR SPECIFIC CONDITIONS.

7. THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED, HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION.

8. CENTERS OF PIERS TO BEAR IN THE MIDDLE THIRD OF THE FOOTINGS, AND GIRDERS SHALL CENTER IN THE MIDDLE THIRD OF THE PIERS.

9. ALL FOOTINGS TO HAVE MINIMUM 2" PROJECTION ON EACH SIDE OF FOUNDATION WALLS (SEE DETAILS).

10. ALL REBAR NOTED IN CONCRETE TO HAVE AT LEAST 2" COVER FROM EDGE OF CONCRETE TO EDGE OF REBAR.

11. FRAMING TO BE FLUSH WITH FOUNDATION WALLS.

12. WITH CLASS 1 SOILS, VAPOR BARRIER AND CRUSHED STONE MAY BE OMITTED.

FRAMING

1. ALL BEARING HEADERS TO BE (2) 2x6 SUPPORTED W/ MIN (1) JACK STUD AND (1) KING STUD EACH END, UNO.

2. ALL NON-BEARING HEADERS TO BE (2) 2x4, UNO.

3. NON-BEARING INTERIOR WALLS NOT MORE THAN 10' NOMINAL HEIGHT AND NOT SHOWN AS BRACED WALLS MAY BE FRAMED WITH 2x4 STUDS @ 24" OC.

4. SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.

5. ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.

6. ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 7/16" OSB.

7. PORCH / PATIO COLUMNS TO BE 4x4 MINIMUM PRESSURE-TREATED LUMBER.

- A. ATTACH PORCH COLUMNS TO SLAB / FDN WALL USING ABA, ABU, ABW, OR CPT SIMPSON POST BASES TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
- B. ATTACH PORCH COLUMNS TO PORCH BEAMS USING AC OR BC SIMPSON POST CAPS TO FIT COLUMN SIZES NOTED ON PLAN -OR- ANY OTHER COLUMN CONNECTION WITH 500# UPLIFT CAPACITY.
- C. TRIM OUT COLUMN(S) AND BEAM(S) PER BUILDER AND DETAILS.

8. ALL ENGINEERED WOOD PRODUCTS (LVL, PSL, LSL, ETC.) SHALL BE INSTALLED WITH CONNECTIONS PER MANUFACTURER SPECIFICATIONS.

9. ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS:

- A. SHOP DRAWINGS FOR THE SYSTEMS SHALL BE PROVIDED TO THE ENGINEER OF RECORD FOR REVIEW AND COORDINATION BEFORE CONSTRUCTION.
- B. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER.
- C. INSTALLATION OF THE SYSTEMS SHALL BE PER MANUFACTURER'S INSTRUCTIONS.
- D. TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN IN THESE DRAWINGS.

10. ALL BEAMS TO BE CONTINUOUSLY SUPPORTED Laterally AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED, WITH A MINIMUM OF THREE STUDS, UNO.

11. ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MIN BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS, UNO.

12. STEEL FLITCH BEAMS TO BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM 307) WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS TO BE SPACED AT 24" OC (MAX) AND STAGGERED TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH TWO BOLTS TO BE LOCATED AT 6" FROM EACH END OF FLITCH BEAM.

13. WHEN A 4-PLY LVL BEAM IS USED, ATTACH WITH (1) 1/2" DIAMETER BOLT, 12" OC, STAGGERED TOP AND BOTTOM, 1 1/2" MIN FROM ENDS. ALTERNATE EQUIVALENT ATTACHMENT METHOD MAY BE USED, SUCH AS SDS, SDW, OR TRUSSLOK SCREWS (SEE MANUFACTURER SPECIFICATIONS).

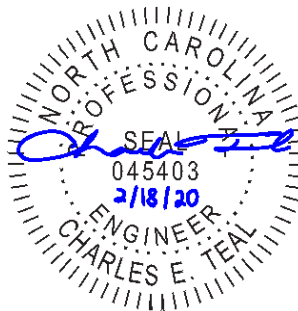
14. FOR STUD COLUMNS OF 4-OR-MORE STUDS, INSTALL SIMPSON STRONG-TIE CS16 STRAPS ACROSS STUDS @ 30" OC, 6" MAX FROM PLATES, ON INSIDE FACE OF COLUMN (EXTERIOR WALL), ON BOTH FACES OF COLUMN (INTERIOR WALL).

15. FLOOR JOISTS ADJACENT AND PARALLEL TO THE EXTERIOR FOUNDATION WALL SHALL BE PROVIDED WITH FULL-DEPTH SOLID BLOCKING, NOT LESS THAN TWO (2) INCHES NOMINAL IN THICKNESS, PLACED PERPENDICULAR TO THE JOIST AT SPACING NOT MORE THAN FOUR (4) FEET. THE BLOCKING SHALL BE NAILED TO THE FLOOR SHEATHING, THE SILL PLATE, THE JOIST, AND THE EXTERIOR RIM JOIST / BOARD.

16. BRACED WALL PANELS SHALL BE FASTENED TO MEET THE UPLIFT-RESISTANCE REQUIREMENTS IN CHAPTERS 6 AND 8 OF THE APPLICABLE CODE (SEE TITLE SHEET). REQUIREMENTS OF THE STRUCTURAL DRAWINGS THAT EXCEED THE CODE MINIMUM SHALL BE MET.



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GENERAL NOTES

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FASTENER SCHEDULE		
CONNECTION	3" x 0.131" NAIL	3" x 0.120" NAIL
JOIST TO SILL PLATE	(4) TOE NAILS	(4) TOE NAILS
SOLE PLATE TO JOIST / BLOCKING	NAILS @ 8" OC (typical) (4) PER 16" SPACE (at braced panels)	NAILS @ 8" OC (typical) (4) PER 16" SPACE (at braced panels)
STUD TO SOLE PLATE	(4) TOE NAILS	(4) TOE NAILS
TOP OR SOLE PLATE TO STUD	(3) FACE NAILS	(4) FACE NAILS
RIM JOIST OR BAND JOIST TO TOP PLATE OR SILL PLATE	TOE NAILS @ 6" OC	TOE NAILS @ 4" OC
BLOCKING BETWEEN JOISTS TO TOP PLATE OR SILL PLATE	(4) TOE NAILS	(4) TOE NAILS
DOUBLE STUD	NAILS @ 8" OC	NAILS @ 8" OC
DOUBLE TOP PLATES	NAILS @ 12" OC	NAILS @ 12" OC
DOUBLE TOP PLATES LAP (24" MIN LAP LENGTH)	(12) NAILS IN LAPPED AREA, EA SIDE OF JOINT	(12) NAILS IN LAPPED AREA, EA SIDE OF JOINT
TOP PLATE LAP AT CORNERS AND INTERSECTING WALLS	(3) FACE NAILS	(3) FACE NAILS
OPEN-WEB TRUSS BOTTOM CHORD TO TOP PLATES OR SILL PLATE (PARALLEL TO WALL)	NAILS @ 6" OC	NAILS @ 4" OC
BOTTOM CHORD OF TRUSS TO TOP PLATES OR SILL PLATE (PERPENDICULAR TO WALL)	(3) TOE NAILS	(3) TOE NAILS

SEE TABLE R602.3(1) FOR ADDITIONAL STRUCTURAL-MEMBER FASTENING REQUIREMENTS.

DETAILS AND NOTES ON DRAWINGS GOVERN.


BALLOON WALL FRAMING SCHEDULE
(USE THESE STANDARDS UNLESS NOTED OTHERWISE ON THE FRAMING PLAN SHEETS)

FRAMING MEMBER SIZE	MAX HEIGHT (PLATE TO PLATE) 115 MPH ULTIMATE DESIGN WIND SPEED
2x4 @ 16" OC	10'-0"
2x4 @ 12" OC	12'-0"
2x6 @ 16" OC	15'-0"
2x6 @ 12" OC	17'-9"
2x8 @ 16" OC	19'-0"
2x8 @ 12" OC	22'-0"
(2) 2x4 @ 16" OC	14'-6"
(2) 2x4 @ 12" OC	17'-0"
(2) 2x6 @ 16" OC	21'-6"
(2) 2x6 @ 12" OC	25'-0"
(2) 2x8 @ 16" OC	27'-0"
(2) 2x8 @ 12" OC	31'-0"


- ALL HEIGHTS ARE MEASURED SUBFLOOR TO TOP OF WALL PLATE.
- WHEN SPLIT-FRAMED WALLS ARE USED FOR HEIGHTS OVER 12', THE CONTRACTOR SHALL ADD 6' MINIMUM OF CS16 COIL STRAPPING (FULLY NAILED), CENTERED OVER THE WALL BREAK.
- FINGER-JOINTED MEMBERS MAY BE USED FOR CONTINUOUS HEIGHTS WHERE TRADITIONALLY MILLED LUMBER LENGTHS ARE LIMITED.
- FOR GREATER WIND SPEED, SEE ENGINEERED SOLUTION FOR CONDITION IN DRAWINGS.

ROOF SYSTEMS

TRUSSED ROOF - STRUCTURAL NOTES

- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
-  DENOTES OVER-FRAMED AREA
- MINIMUM 7/16" OSB ROOF SHEATHING
- TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
- PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

STICK-FRAMED ROOF - STRUCTURAL NOTES

- PROVIDE 2x4 COLLAR TIES AT 48" OC AT UPPER THIRD OF RAFTERS, UNLESS NOTED OTHERWISE.
- FUR RIDGES FOR FULL RAFTER CONTACT.
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
-  DENOTES OVER-FRAMED AREA
- MINIMUM 7/16" OSB ROOF SHEATHING
- PROVIDE 2x4 RAFTER TIES AT 16" OC AT 45° BETWEEN RAFTERS AND CEILING JOISTS. USE (4) 16d NAILS AT EACH CONNECTION. RAFTER TIES MAY BE SPACED AT 48" OC AT LOCATIONS WHERE NO KNEE WALLS ARE INSTALLED.
- PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH RAFTER-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
- UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

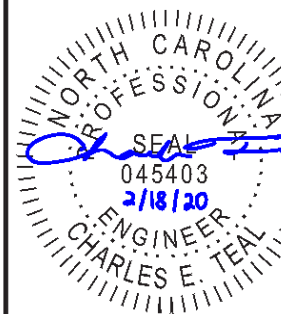
BRICK VENEER LINTEL SCHEDULE		
SPAN	STEEL ANGLE SIZE	END BEARING LENGTH
UP TO 42"	L3-1/2"x3-1/2"x1/4"	8" (MIN. @ EACH END)
UP TO 72"	L6"x4"x5/16"* (LLV)	8" (MIN. @ EACH END)
OVER 72"	L6"x4"x5/16"* (LLV) ATTACH LINTEL w/ 1/2" THRU BOLT @ 12" OC, 3" FROM EACH END	

* FOR QUEEN BRICK: LINTELS AT THIS CONDITION MAY BE 5"x3-1/2"x5/16"

NOTE: BRICK LINTELS AT SLOPED AREAS TO BE 4"x3-1/2"x1/4" STEEL ANGLE WITH 16D NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" OC TO TRIPLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3"x3"x1/4" PLATES SHALL BE WELDED AT 24" OC ALONG THE STEEL ANGLE.



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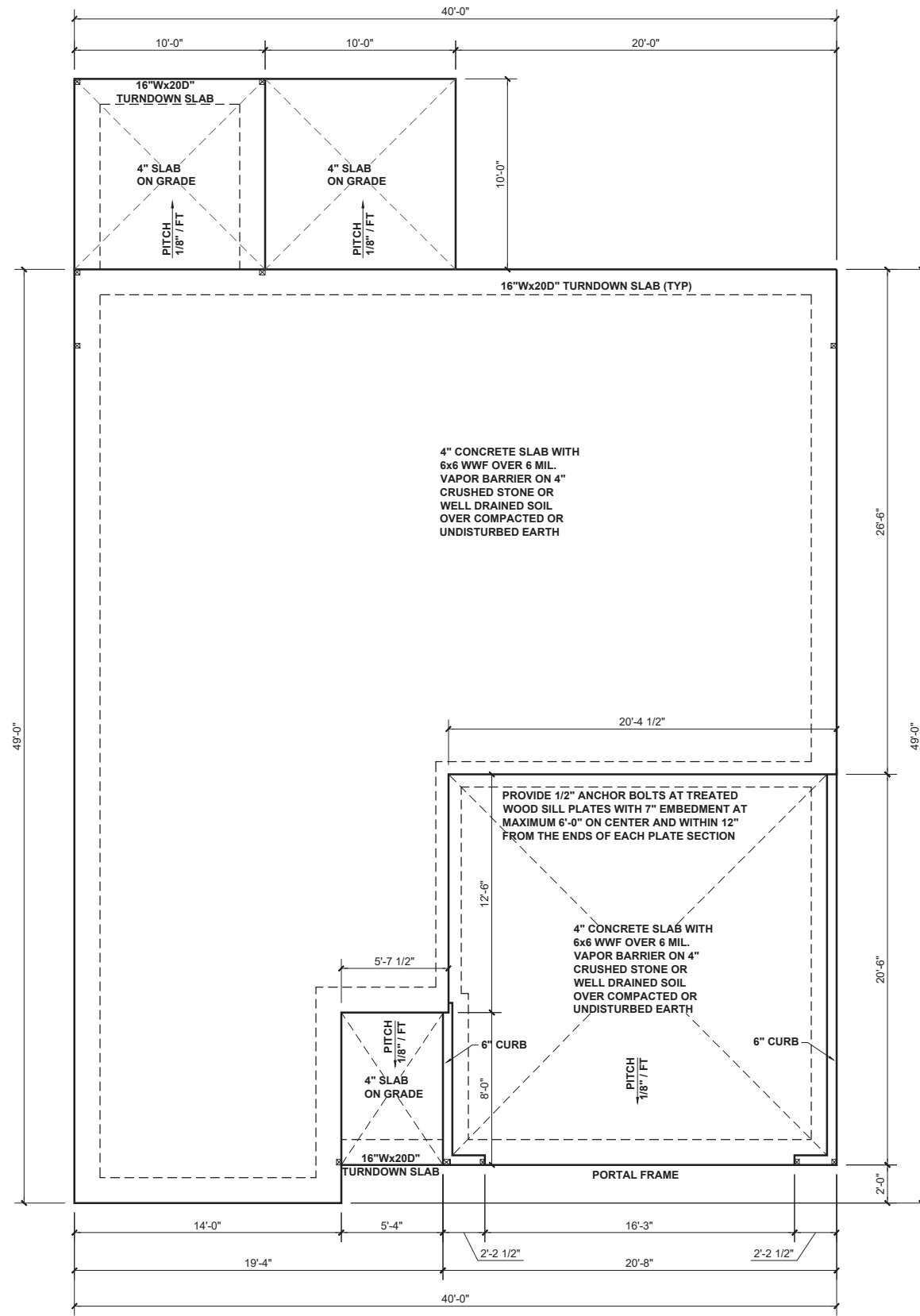
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GENERAL NOTES

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BEAM & POINT LOAD LEGEND

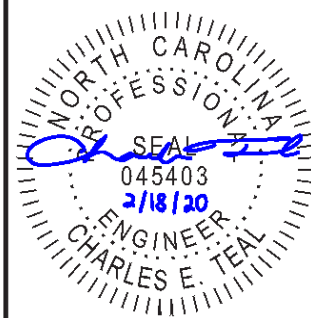
- INTERIOR LOAD BEARING WALL
- ROOF RAFTER / TRUSS SUPPORT
- DOUBLE RAFTER / DOUBLE JOIST
- STRUCTURAL BEAM / GIRDER
- WINDOW / DOOR HEADER
- POINT LOAD TRANSFER
- POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

(1) #5 REBAR @ CENTER OF ALL PERIMETER AND INTERNAL LOAD BEARING FOOTINGS. (2" C.C. MIN)

SLAB FOUNDATION PLAN - 'B'
SCALE: 1/8"=1'-0"



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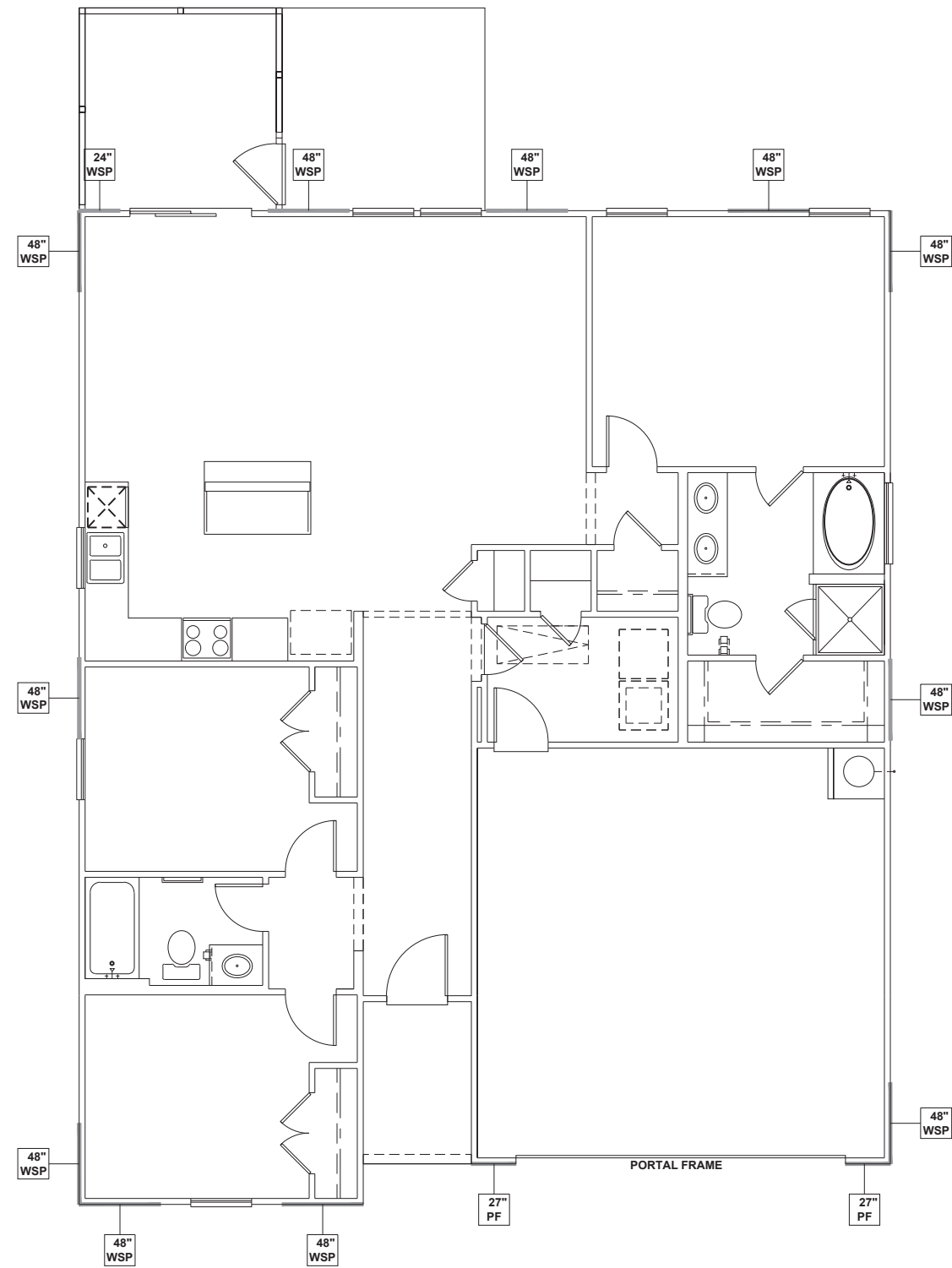
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SLAB
FOUNDATION PLAN
S.10B

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WALL BRACING REQUIREMENTS

- MINIMUM PANEL WIDTH IS 24"
- FIGURES BASED ON THE CONTINUOUS SHEATHING METHOD USING THE RECTANGLE CIRCUMSCRIBED AROUND THE FLOOR PLAN OR PORTION OF THE FLOOR PLAN. IF NO RECTANGLE IS NOTED, THE STRUCTURE HAS BEEN FIGURED ALL WITHIN ONE RECTANGLE.
- PANELS MAY SHIFT UP TO 36" EITHER DIRECTION FOR EASE OF CONSTRUCTION (NAILING & BLOCK REQUIREMENTS STILL APPLY).
- FOR ADDITIONAL WALL BRACING INFORMATION, REFER TO WALL BRACING DETAIL SHEET(S).
- SCHEMATIC BELOW INDICATES HOW SIDES OF RECTANGLE ARE TO BE INTERPRETED IN BRACING CHART WHEN APPLIED TO STRUCTURE:

- ◆ CS16 STRAP FROM STUD, CROSS HEADER, TO WALL TOP PLATE, 36" LONG MINIMUM
- ▶ SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL. (CS16 STRAPPING MAY BE SUBSTITUTED w/ SIMILAR LENGTH AND NAILING PATTERN.) USE HTT4 FOR ATTACHMENT TO CONCRETE.

SCALED LENGTH OF WALL PANEL AT LOCATION

NUMERICAL LENGTH OF PANEL
 PANEL TYPE

WALL BRACING: RECTANGLE 1

SIDE	REQUIRED LENGTH	PROVIDED LENGTH
FRONT	6.5 FT.	14.75 FT.
RIGHT	5.5 FT.	12.0 FT.
REAR	6.5 FT.	14.0 FT.
LEFT	5.5 FT.	12.0 FT.



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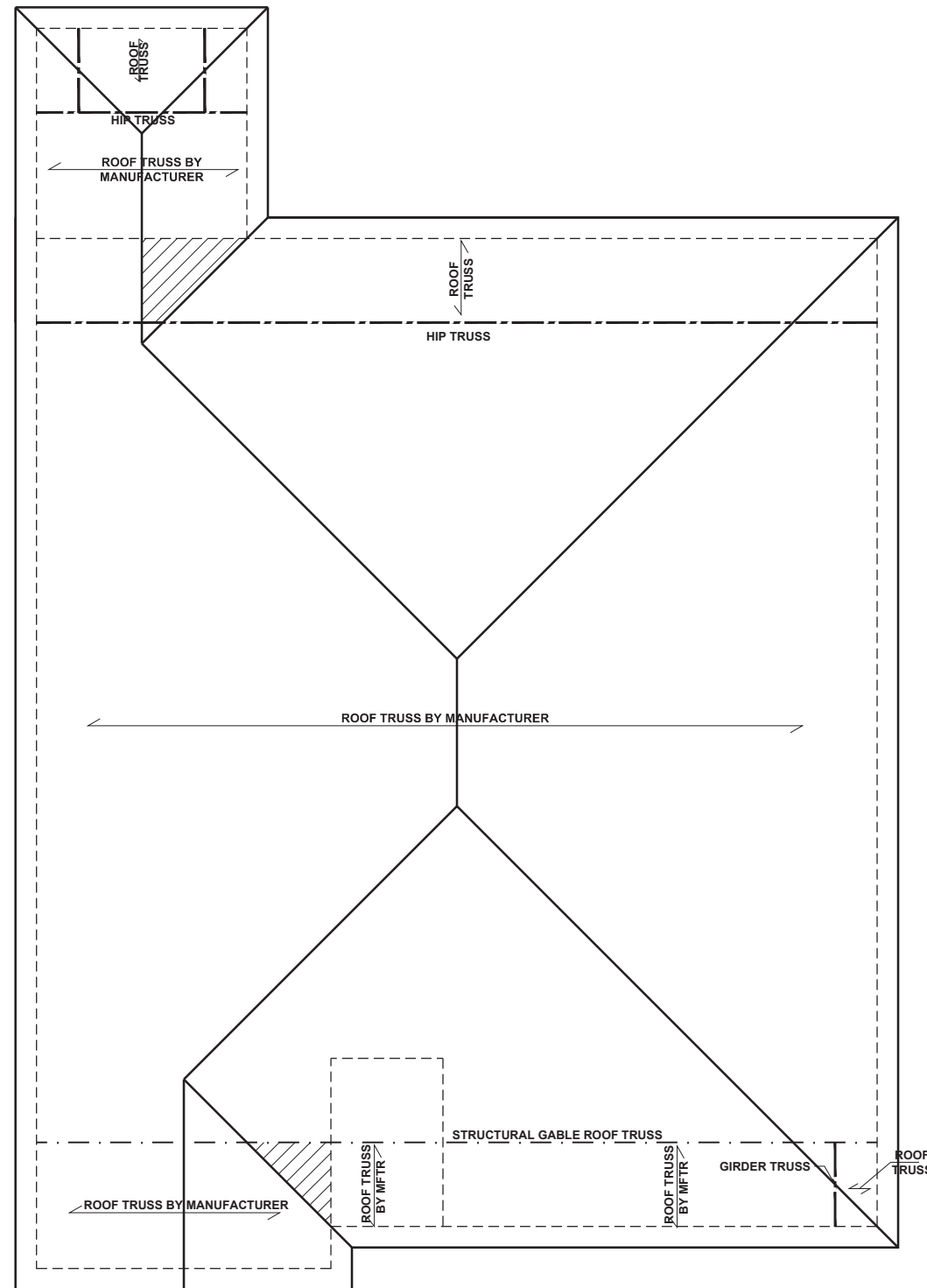
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FIRST FLOOR
 WALL BRACING PLAN
S4.0B

FIRST FLOOR WALL BRACING PLAN - 'B'
 SCALE: 1/8"=1'-0"

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ROOF FRAMING PLAN - 'B'
SCALE: 1/8"=1'-0"

BEAM & POINT LOAD LEGEND

	INTERIOR LOAD BEARING WALL
	ROOF RAFTER / TRUSS SUPPORT
	DOUBLE RAFTER / DOUBLE JOIST
	STRUCTURAL BEAM / GIRDER
	WINDOW / DOOR HEADER
	POINT LOAD TRANSFER
	POINT LOAD FROM ABOVE BEARING ON BEAM / GIRDER

- TRUSSED ROOF - STRUCTURAL NOTES**
- PROVIDE CONTINUOUS BLOCKING THROUGH STRUCTURE FOR ALL POINT LOADS.
 - DENOTES OVER-FRAMED AREA
 - MINIMUM 7/16" OSB ROOF SHEATHING
 - TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN. TRUSS PROFILES SHALL BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 - MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTION.
 - PROVIDE H2.5A (MINIMUM) OR EQUIVALENT AT EACH TRUSS-TO-TOP PLATE CONNECTION AT OVER-FRAMED AREAS, UNLESS NOTED OTHERWISE.
 - UPLIFT CONNECTION TO BE CARRIED THROUGH TO FLOOR SYSTEM.

TRUSS UPLIFT CONNECTORS: EXPOSURE B, 115 MPH, ANY PITCH, 24" O.C. MAX ROOF TRUSS SPACING

TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS, OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE:

ROOF PLAN UP TO 28'	CONNECTOR NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION
OVER 28'	(1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM OR (1) SIMPSON H3 CLIP TO SINGLE 2x4 PLATE



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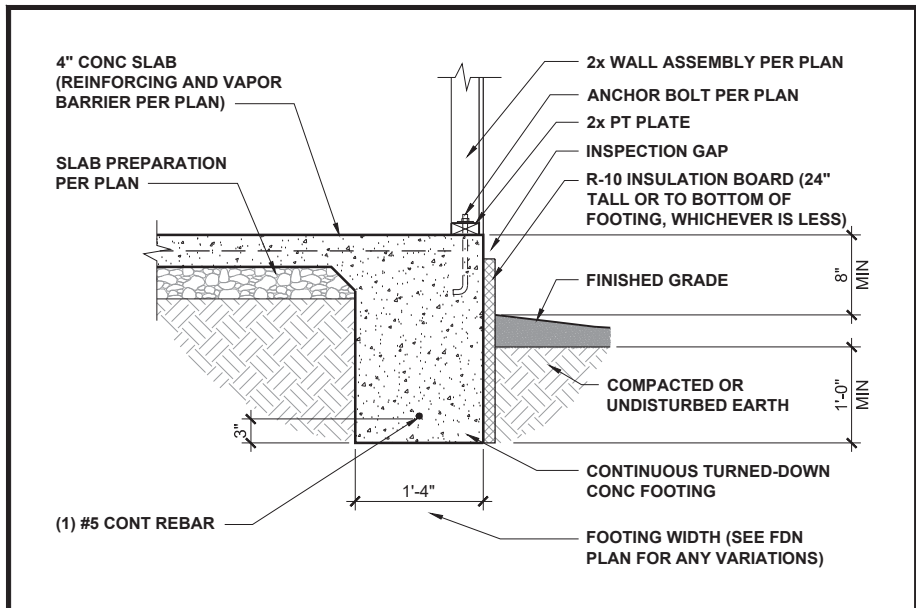
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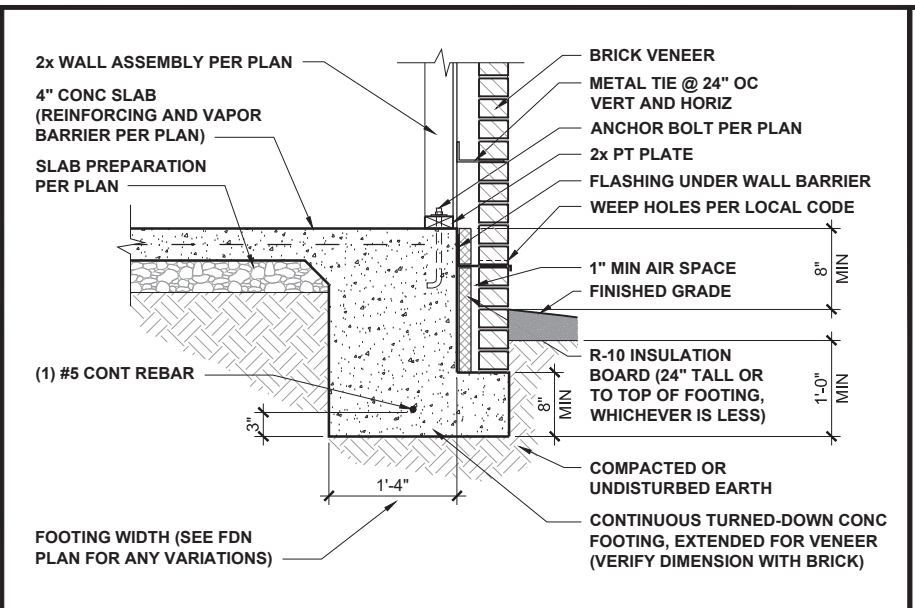
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ROOF FRAMING PLAN
S7.0B

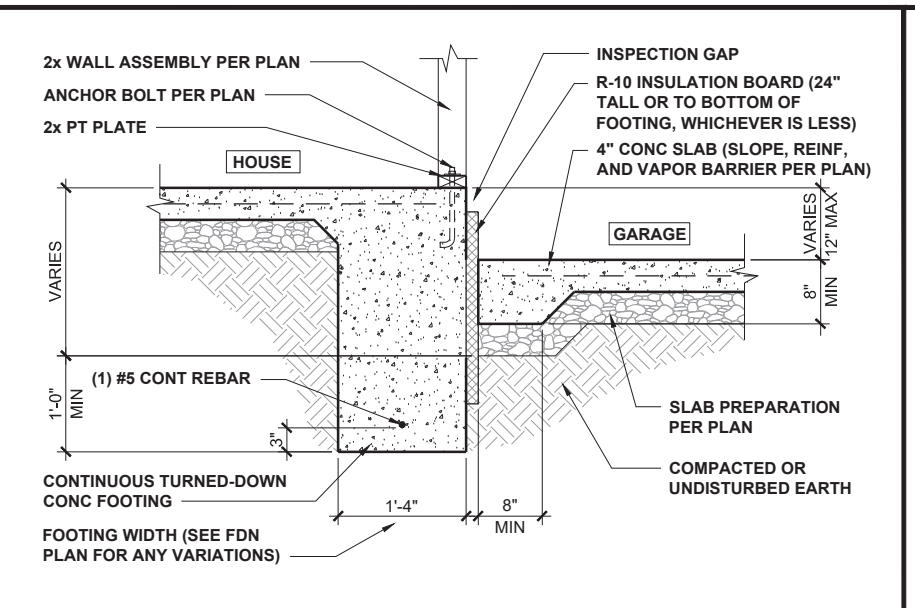
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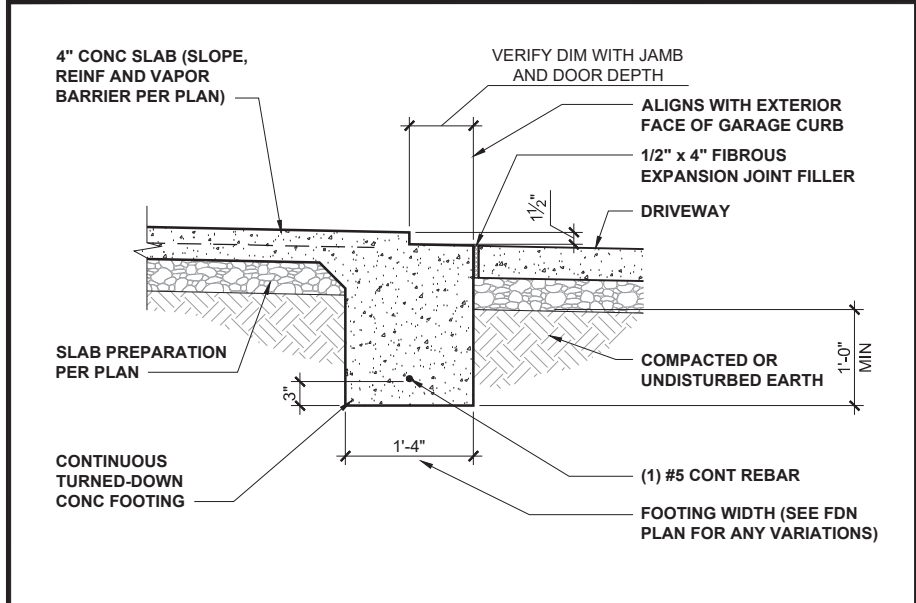
TURNED-DOWN CONC SLAB FOOTING 1/2" = 1'-0" **1**



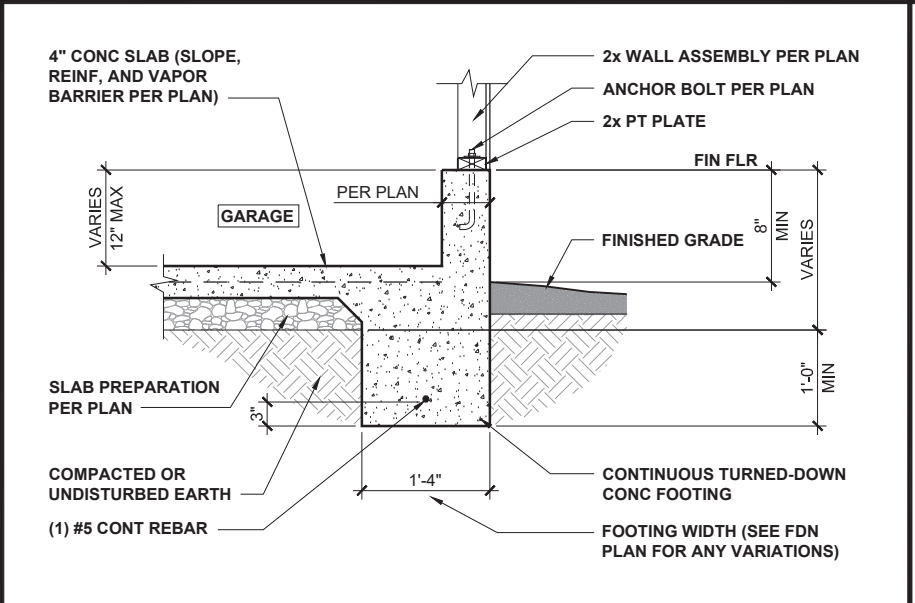
TURNED-DOWN FOOTING w/ BRICK 1/2" = 1'-0" **2**



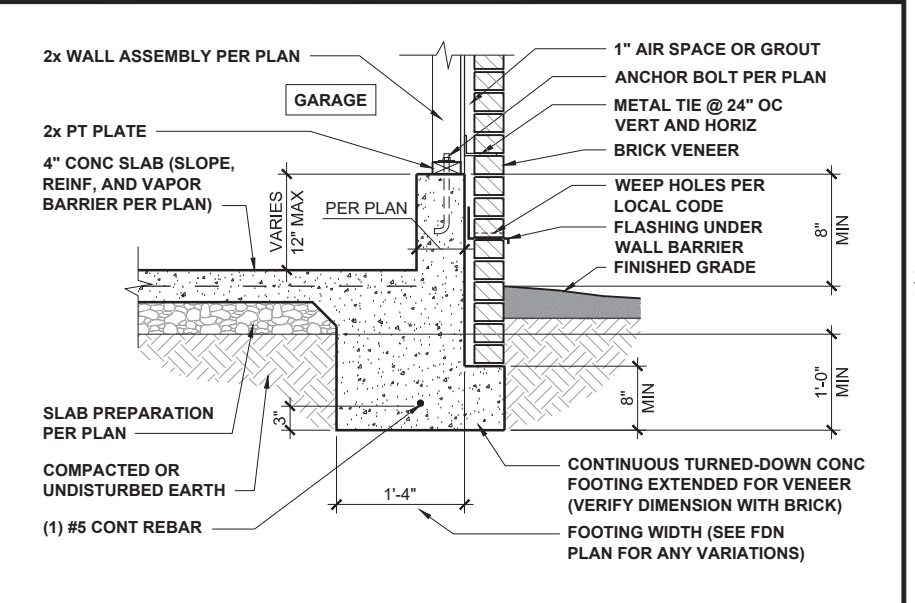
HOUSE / GARAGE FOOTING 1/2" = 1'-0" **3**



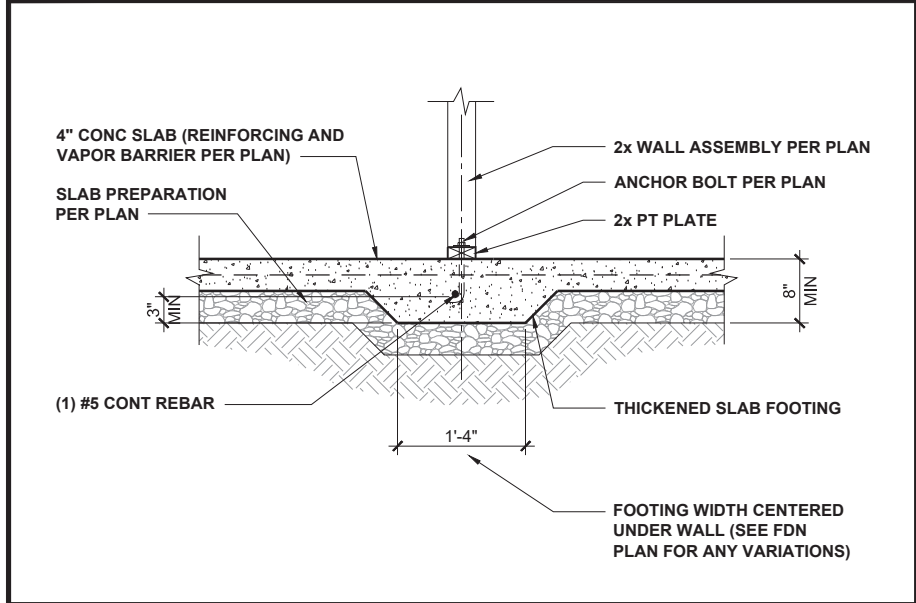
GARAGE DOORWAY FOOTING 1/2" = 1'-0" **4**



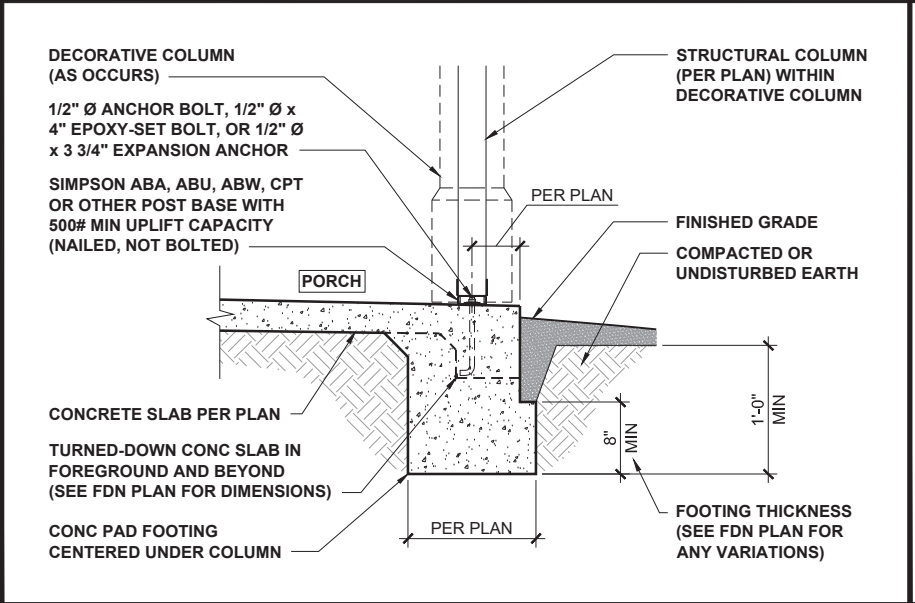
GARAGE FOUNDATION 1/2" = 1'-0" **5**



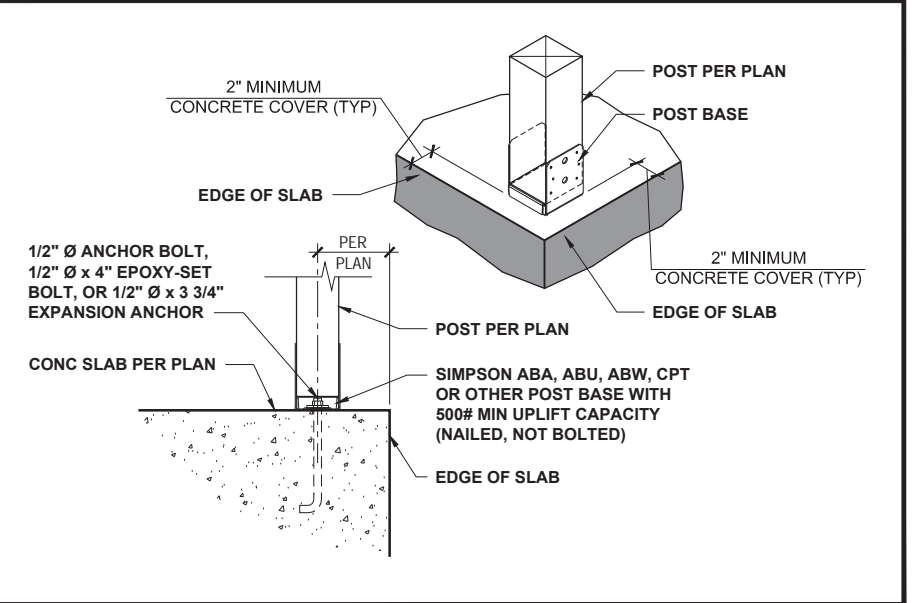
GARAGE FOUNDATION WITH BRICK 1/2" = 1'-0" **6**



INTERIOR FOOTING 1/2" = 1'-0" **7**



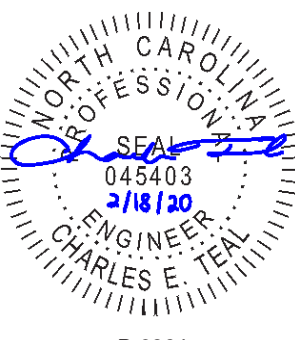
PORCH COLUMN FOUNDATION 1/2" = 1'-0" **8**



PORCH COLUMN 3/4" = 1'-0" **9**



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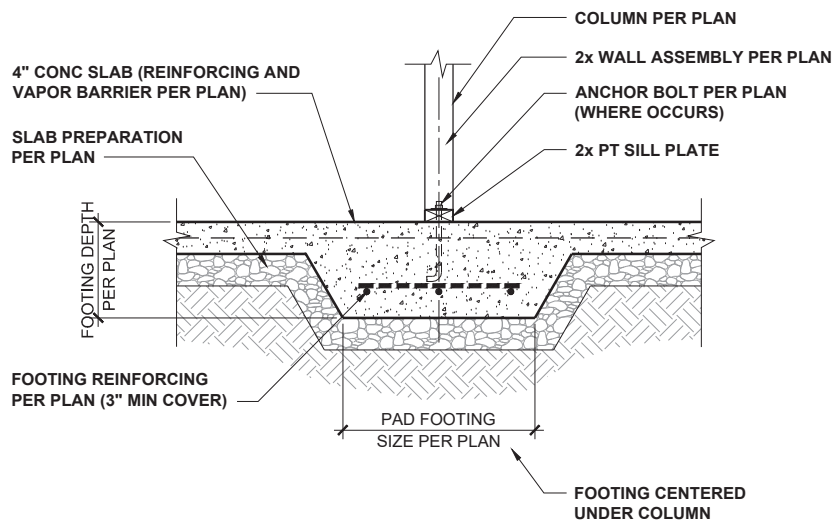
PROJECT NO.: 20900291
DATE: 02/18/2020

PLAN:
140.1445

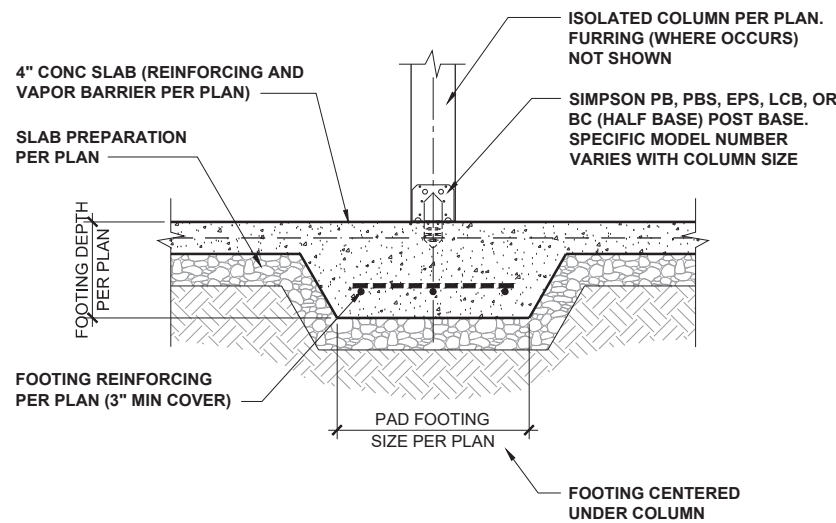
TURNED-DOWN SLAB
FOUNDATION DETAILS

D1.0

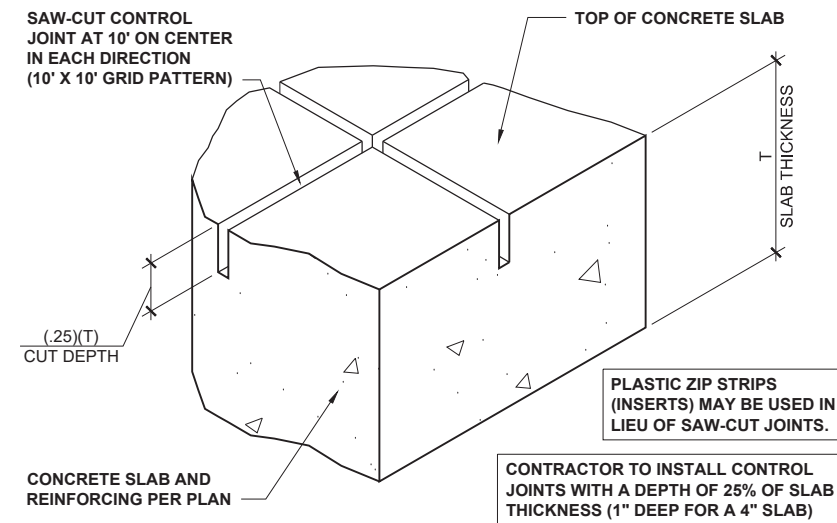
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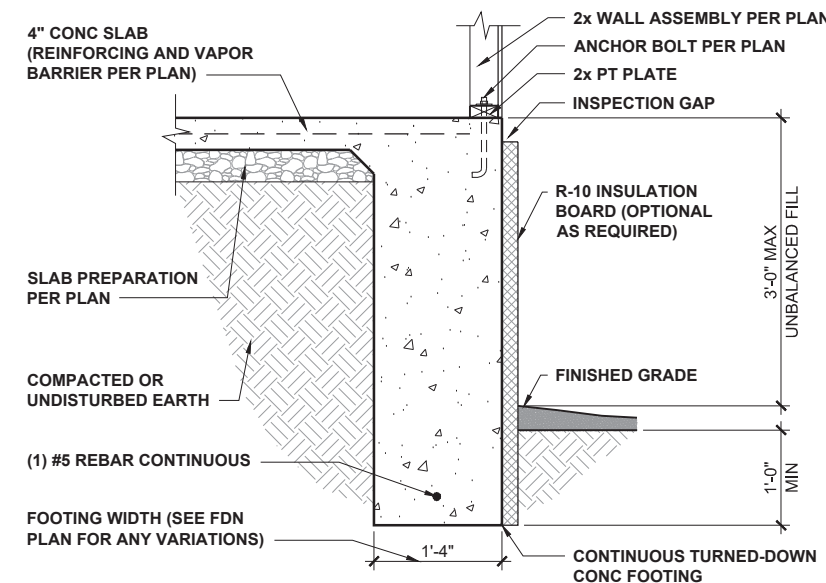
INT POINT-LOAD FOOTING SECTION 1/2" = 1'-0" **1**



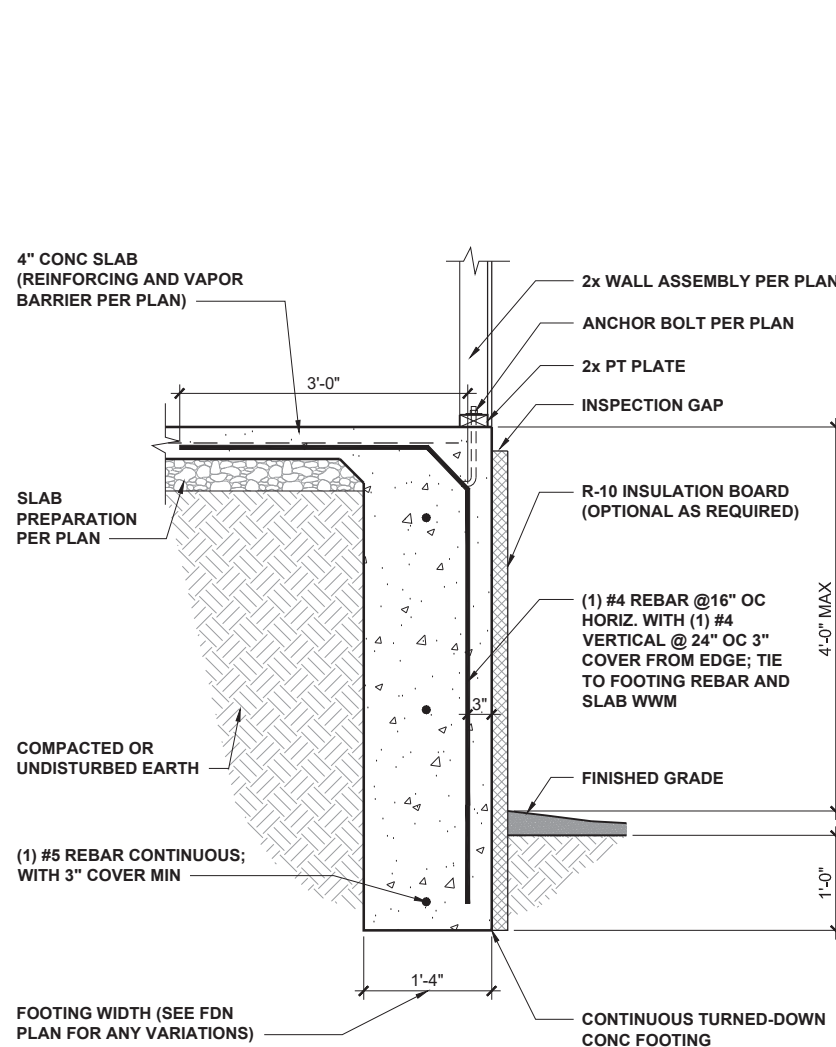
ISOLATED COLUMN FOOTING 1/2" = 1'-0" **2**



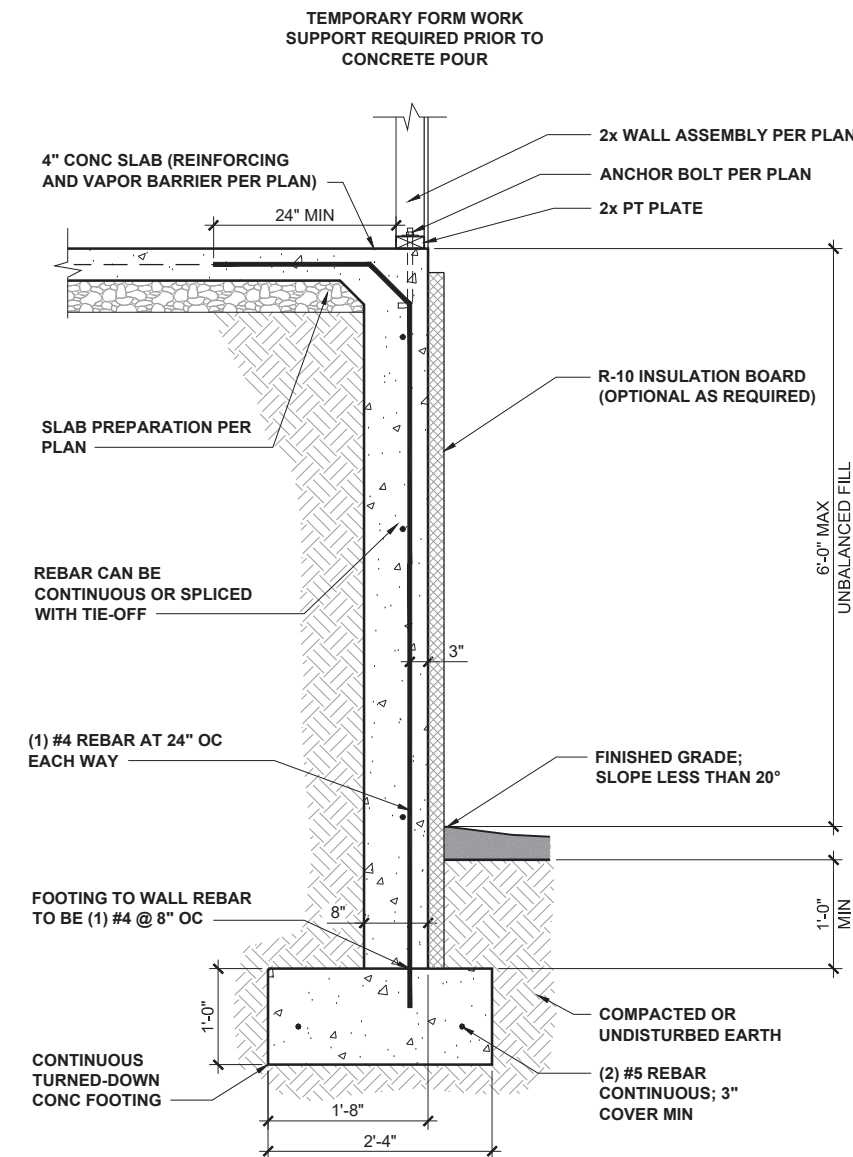
CONCRETE SLAB CONTROL JOINTS 3" = 1'-0" **3**



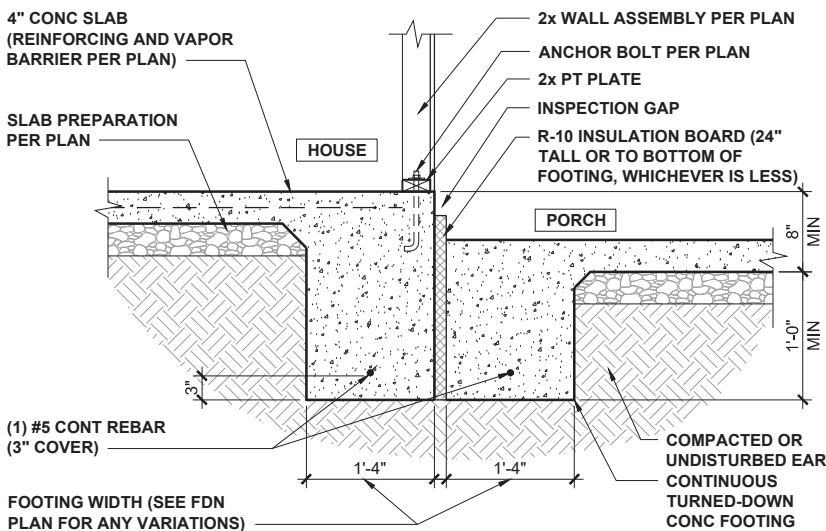
3' EXTENDED TURNED DOWN FOOTING 1/2" = 1'-0" **4**



4' EXTENDED RETAINED FOOTING 1/2" = 1'-0" **6**



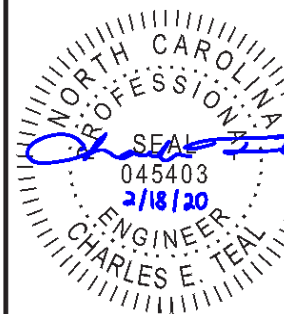
6' EXTENDED REINFORCED FOOTING 1/2" = 1'-0" **7**



FOOTING AT HOUSE/PORCH 1/2" = 1'-0" **5**



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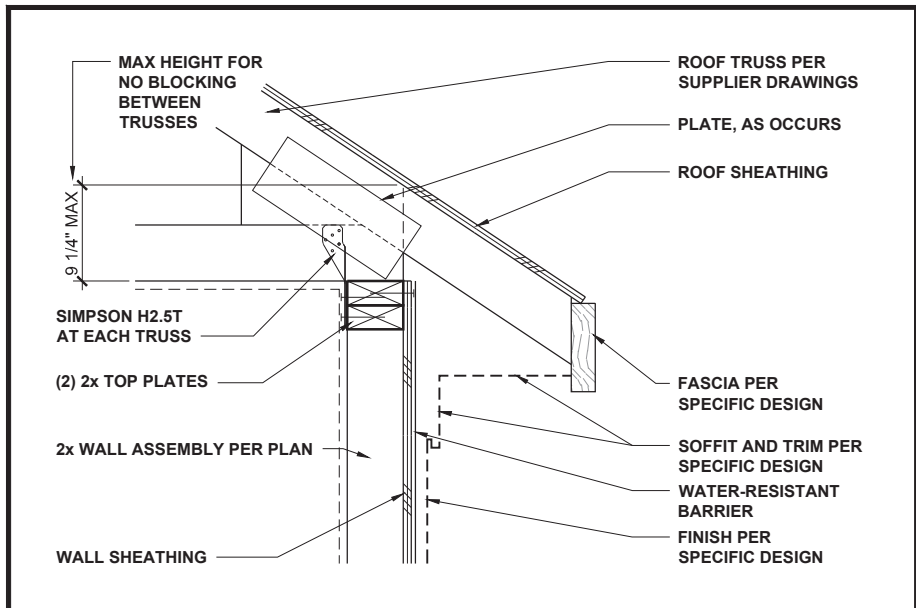
PROJECT NO.: 20900291
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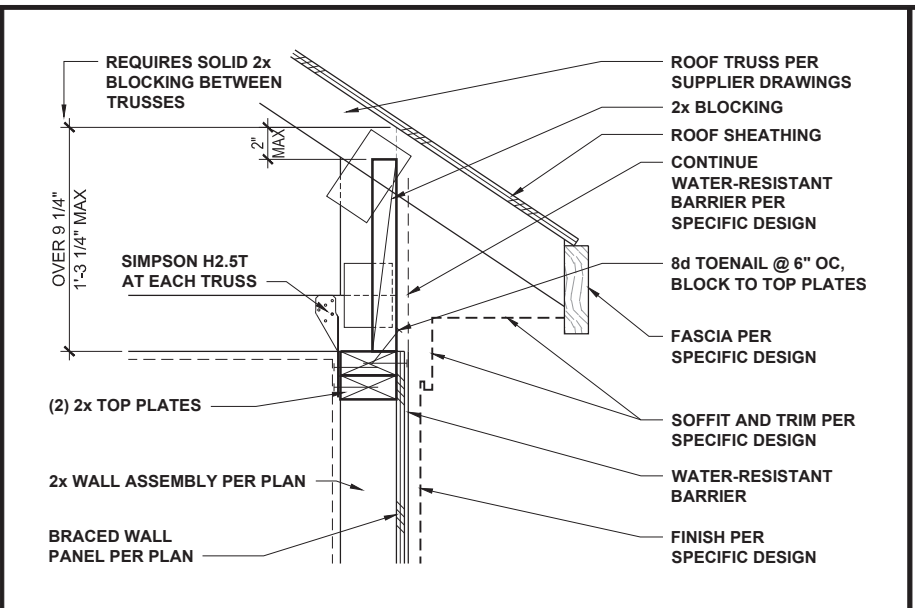
TURNED-DOWN SLAB
FOUNDATION DETAILS

D2.0

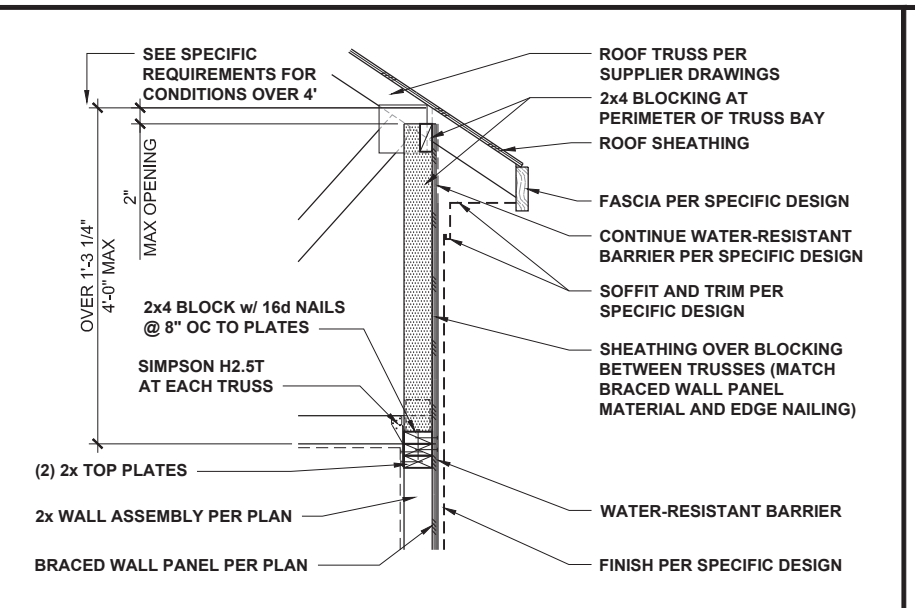
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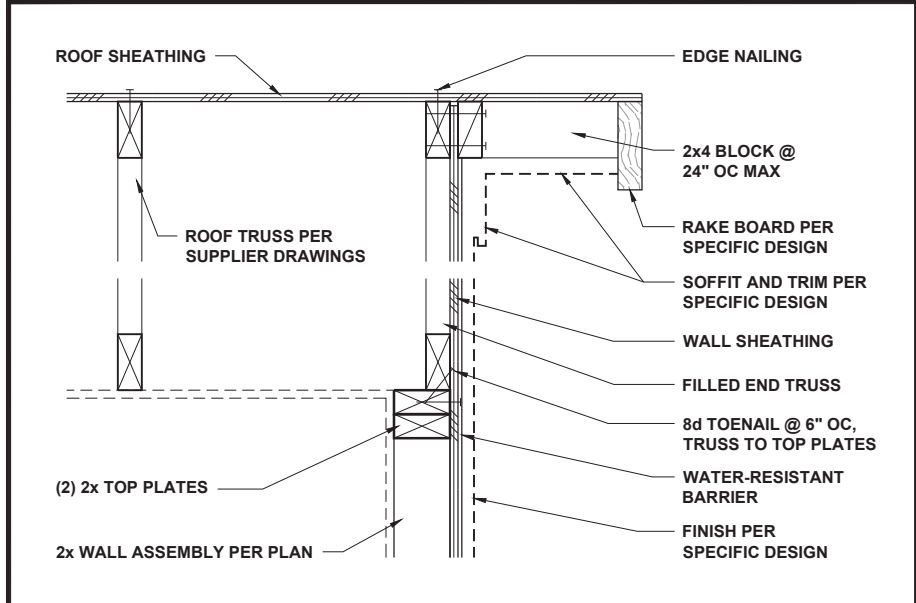
LOW-HEEL TRUSS AT WALL 1" = 1'-0" **1**



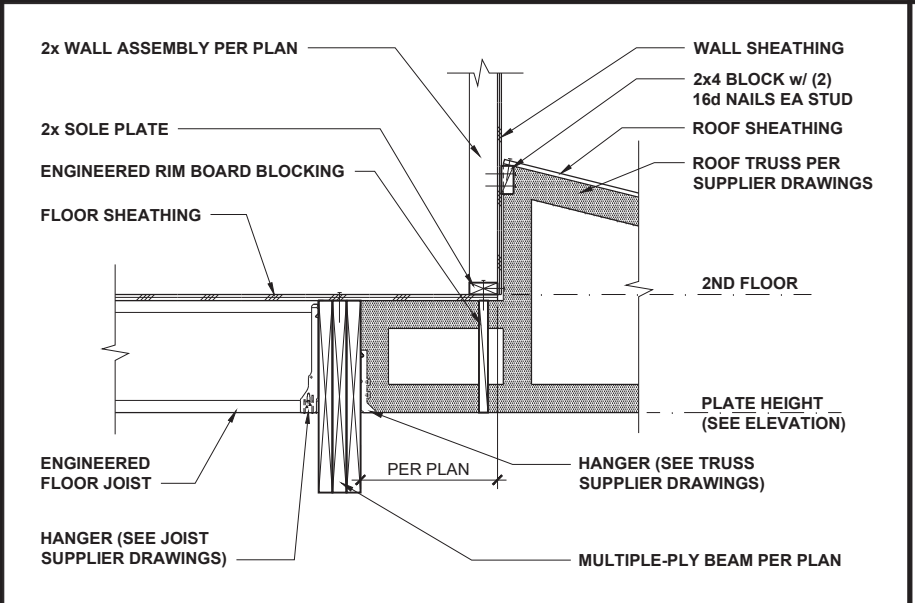
TYPICAL TRUSS AT BRACED WALL 1" = 1'-0" **2**



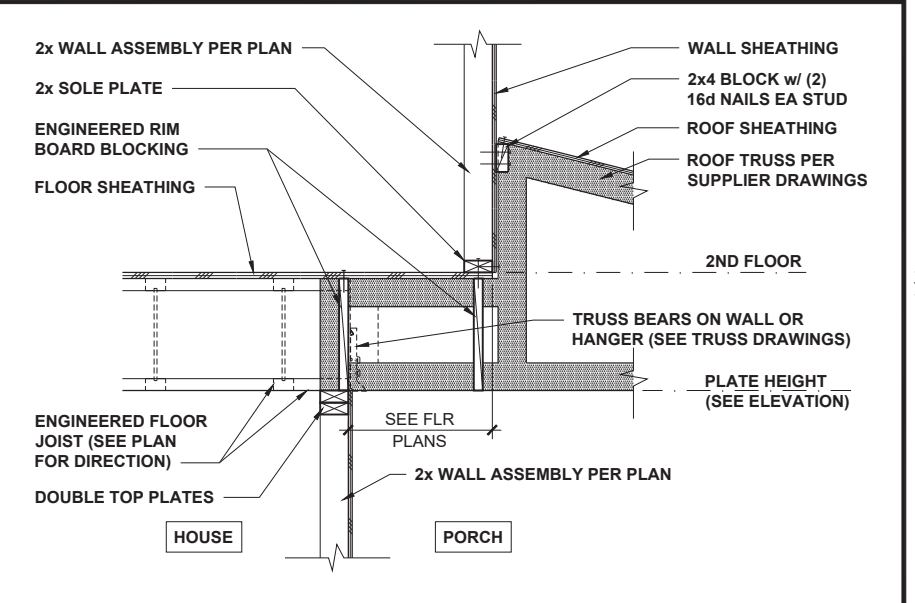
HIGH-HEEL TRUSS AT BRACED WALL 1/2" = 1'-0" **3**



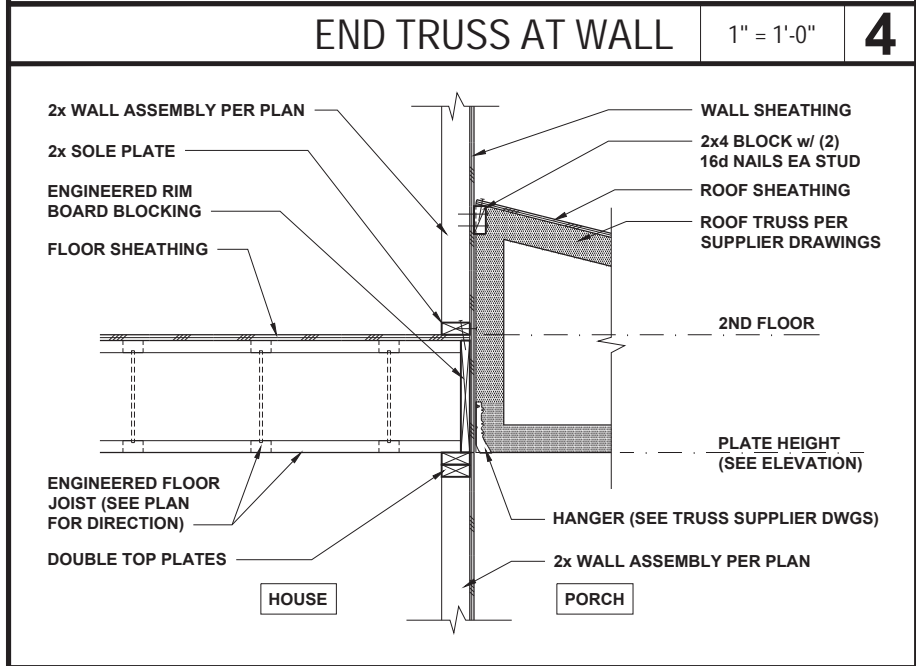
END TRUSS AT WALL 1" = 1'-0" **4**



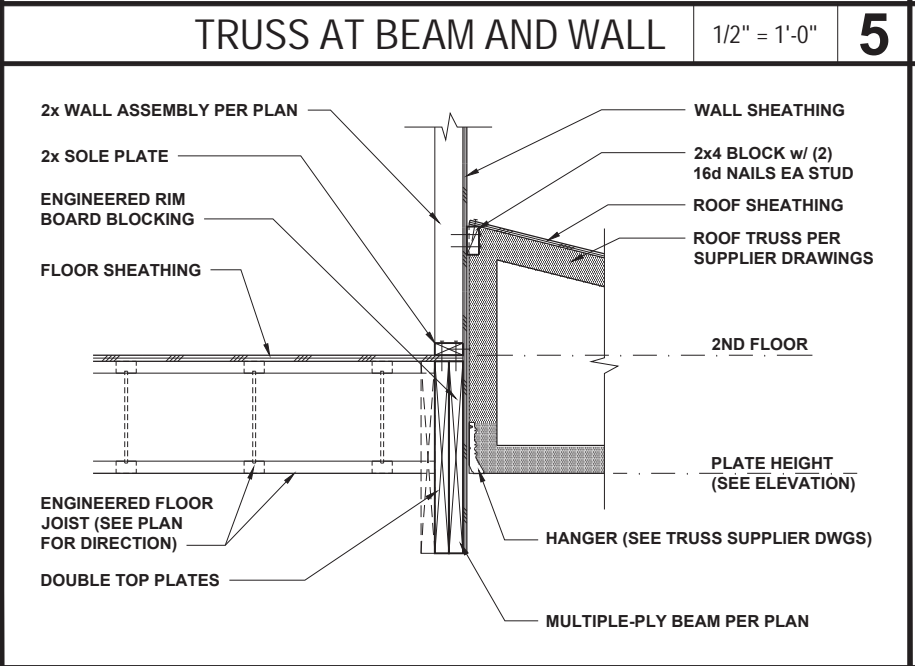
TRUSS AT BEAM AND WALL 1/2" = 1'-0" **5**



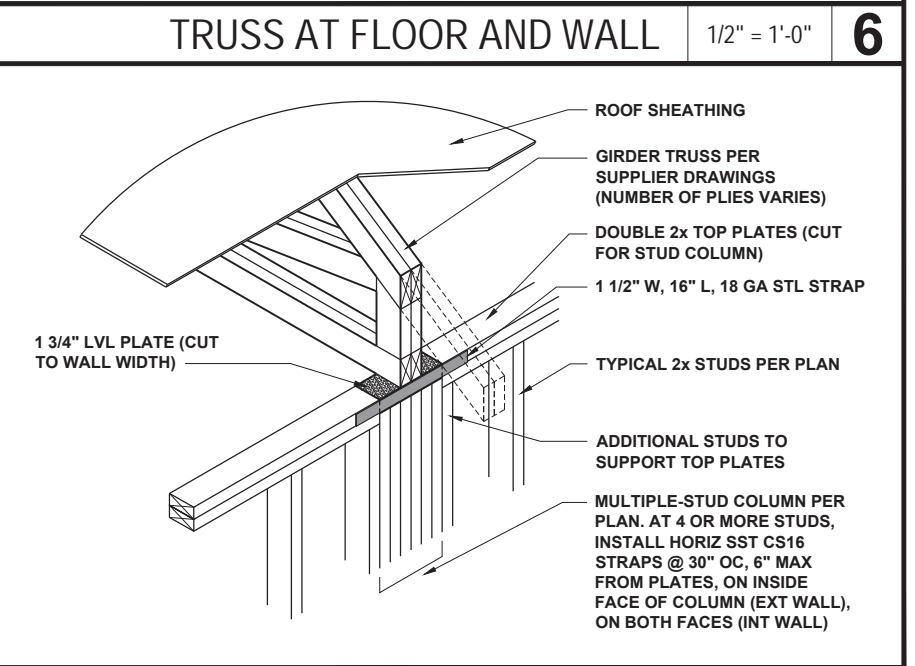
TRUSS AT FLOOR AND WALL 1/2" = 1'-0" **6**



TRUSS AT FLOOR AND WALL 1/2" = 1'-0" **7**



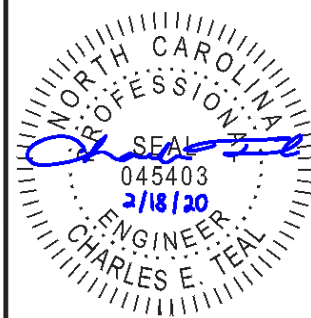
TRUSS AT BEAM AND WALL 1/2" = 1'-0" **8**



GIRDER TRUSS AT WALL 1/2" = 1'-0" **9**



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ROOF TRUSS
FRAMING DETAILS
D4.0

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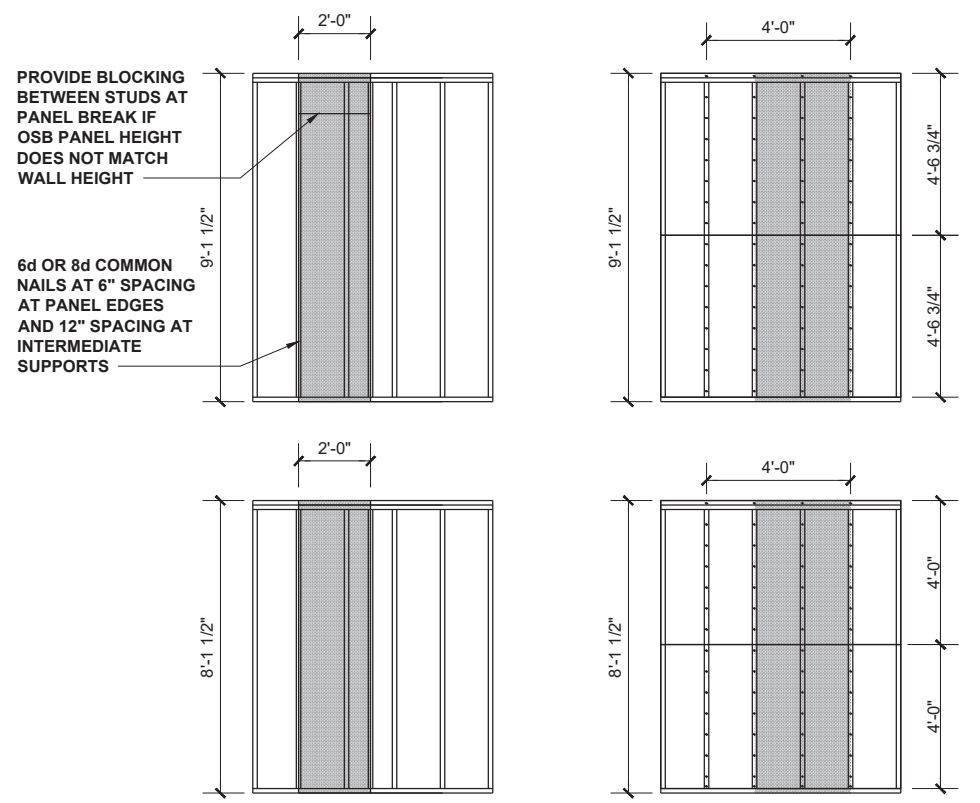
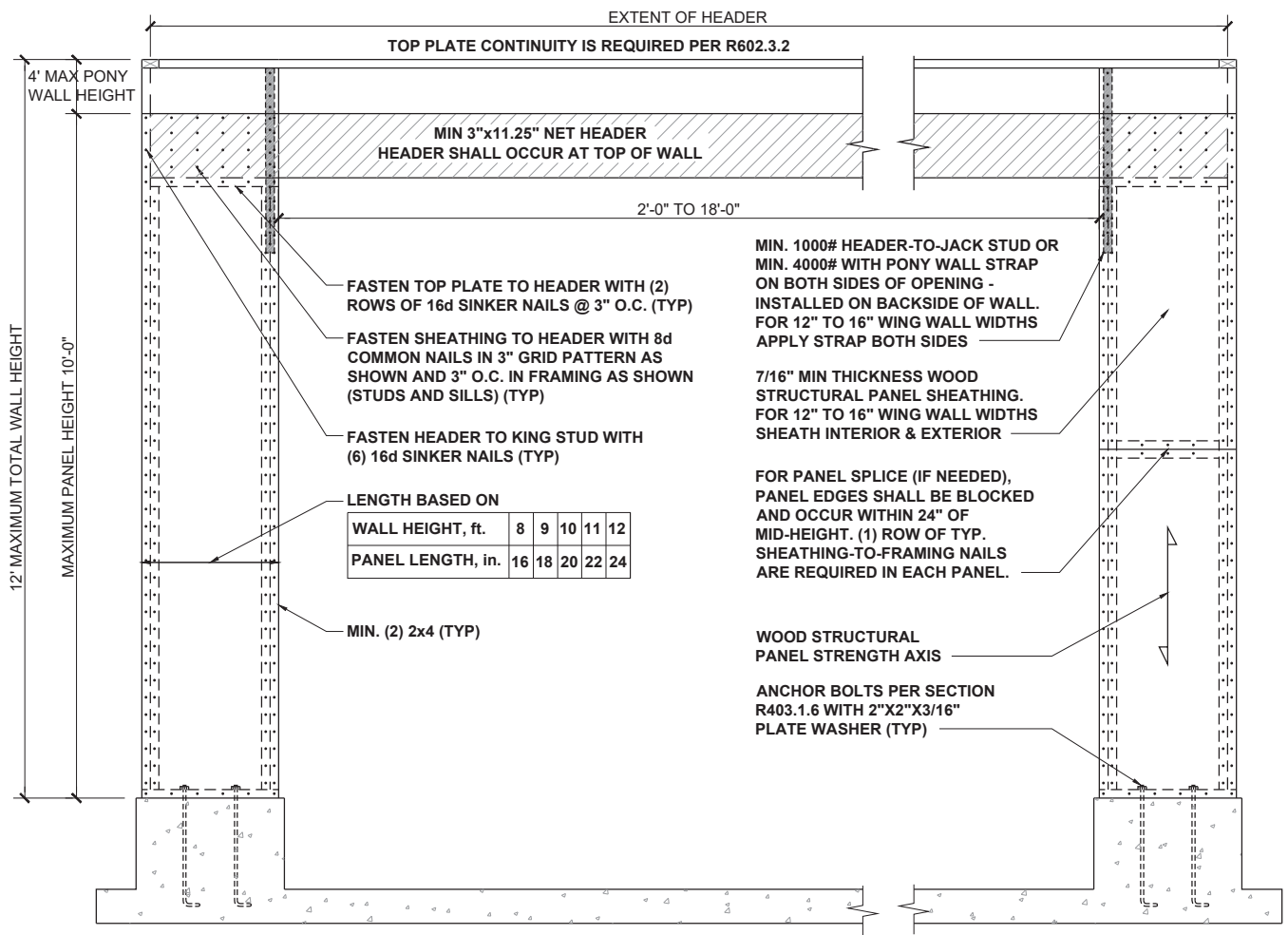
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WALL BRACING DETAILS

D8.0

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CS-WSP - WOOD STRUCTURAL PANEL (CONTINUOUSLY SHEATHED)

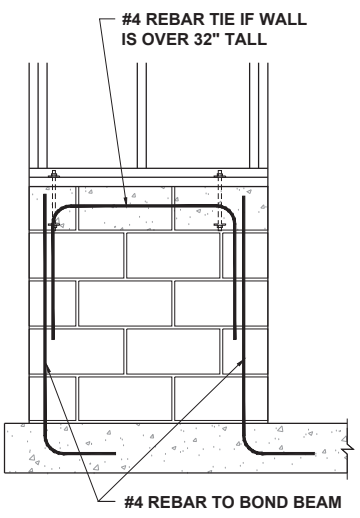
BRACED WALL PANEL 7/16" MIN. OSB SHEATHING ON ONE SIDE OF WALL. MINIMUM PANEL LENGTH 24".

GB - GYPSUM BOARD

BRACED WALL PANEL 1/2" GYPSUM BOARD NAILED TO STUDS AT 7" O.C. USING 5d COOLER NAILS OR #6 SCREWS. MINIMUM PANEL LENGTH 48" WHEN APPLIED TO BOTH SIDES OF WALL AND 96" WHEN APPLIED TO ONE SIDE OF WALL.

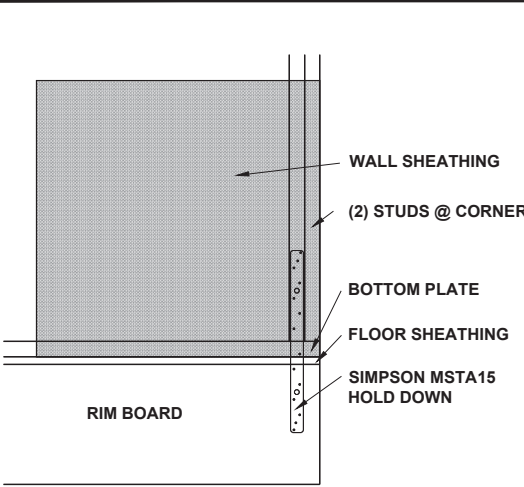
HIGH-SPEED WIND ZONES

FOR LOCATIONS OF 130 MPH OR MORE ULTIMATE DESIGN WIND SPEED (110 MPH OR MORE BASIC WIND SPEED IN VIRGINIA AND GEORGIA), WALLS SHALL BE BRACED PER THE LATEST ADOPTED EDITION OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS PUBLICATION ASCE 7 OR STANDARD FOR RESIDENTIAL CONSTRUCTION IN HIGH-WIND REGIONS (ICC 600).

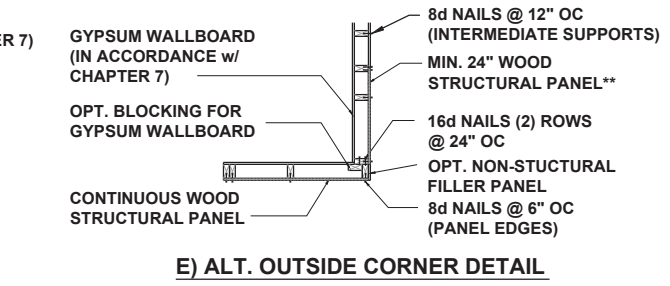
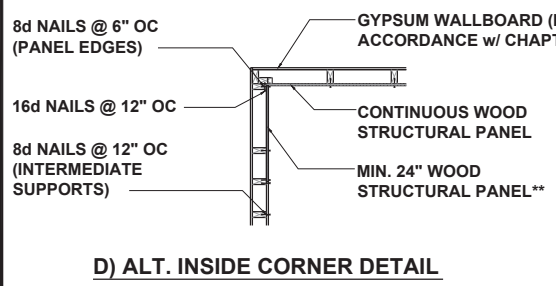
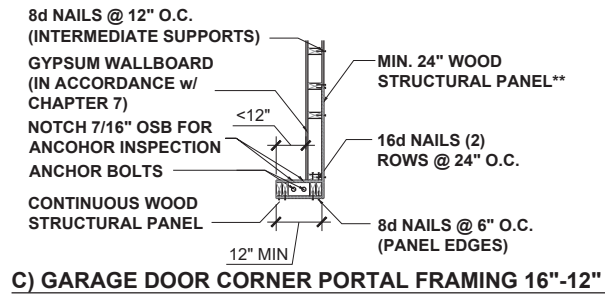
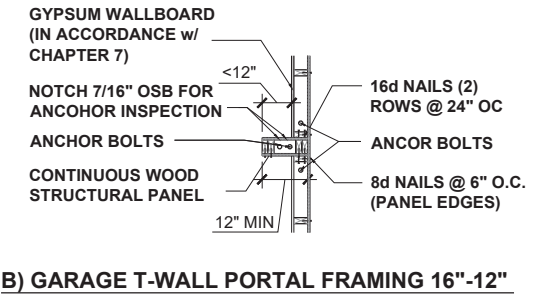
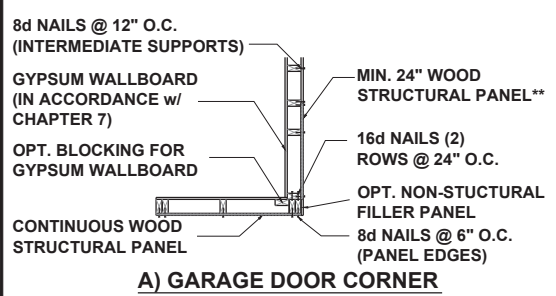


GARAGE WING WALL AT CRAWL
SEE R602.10 - MASONRY STEM WALL SUPPORTING BRACED WALL PANELS FIGURES

METHOD PF: PORTAL FRAME PANEL CONSTRUCTION 3/8" = 1'-0" **1**



SIMPSON MSTA15 HOLD DOWN CAPACITY OF 970 POUNDS PER ANCHOR WITH (12) 10d NAILS. STRAP TO BE LOCATED AT EDGE OF BRACED WALL PANEL.



BRACED WALL HOLD-DOWN NTS **3**

CORNER FRAMING FOR CONTINUOUS SHEATHING 1/4" = 1'-0" **4**

** IN LIEU OF THE CORNER RETURN, A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE CORNER STUD AND TO THE FOUNDATION OR FRAMING BELOW.