GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK AND THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES. IN NO CASE SHALL DIMENSIONS
- BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THESE DRAWINGS. 2. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY
- WORK SO INVOLVED. 3. NO STRUCTURAL MEMBER SHALL BE CUT FOR PIPES, DUCTS, ETC., UNLESS NOTED.
- 4. THE CONTRACTOR SHALL DETERMINE THE LOCATION OF EXISTING UTILITY SERVICES IN THE AREA TO BE EXCAVATED PRIOR TO BEGINNING OF EXCAVATION.
- 5. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 EDITION OF THE "NC STATE BUILDING CODE"
- 6. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, AND SUPPORT NECESSARY TO ACHIEVE THE FINISHED STRUCTURE.

FOUNDATION NOTES:

1. MAXIMUM DESIGN SOIL PRES	SURE: _	CODE MINIT	MUM: 2,000	PSF
CONTINUOUS FOO	CONTINUOUS FOOTINGS:			PSF
PAD FOO		2,000	PSF	
2. SEE SOILS REPORT BY:		N/A		
PROJECT NO.:				
		N/A		
DATED:		N/A		

- 3. ALL FOOTINGS TO BE A MINIMUM OF: <u>12"</u> BELOW NATURAL GRADE
 - <u>12"</u> BELOW FINISHED GRADE
- 4. SOILS COMPACTION AND SITE PREPARATION TO BE IN ACCORDANCE WITH SOILS REPORT (AS APPLICABLE). IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL BEARING CAPACITY
- 5. FINISH EXCAVATION FOR FOUNDATION SHALL BE NEAT AND TRUE TO LINE
- WITH LOOSE MATERIAL REMOVED FROM EXCAVATION. 6. THE FOOTING EXCAVATIONS SHALL BE KEPT FREE FROM LOOSE MATERIAL AND STANDING WATER AND, BEFORE ANY FOOTING CONCRETE IS PLACED, SHALL BE CHECKED AND APPROVED BY CONTRACTOR FOR
- COMPLIANCE WITH THE REQUIREMENTS. 1. SIDE OF FOUNDATION MAY BE POURED AGAINST STABLE EARTH (U.O.N.).
- 8. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC., ENCOUNTERED DURING EXCAYATION AND BACKFILLING.
- 9. CONTRACTOR TO BRACE OR PROTECT ALL RETAINING WALLS FROM LATERAL LOADS UNTIL SUPPORTING FLOORS, WALLS AND/OR SLABS ARE COMPLETELY IN PLACE AND HAVE BEEN SHEATHED PER PLAN OR ATTAINED FULL STRENGTH.
- 10. FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER, AS APPLICABLE. FLOODING WILL NOT BE PERMITTED.
- 11. ALL CONCRETE AND MASONRY FOUNDATION WALLS ARE TO BE CONSTRUCTED IN ACCORDANCE W/ NC BUILDING CODE SECTION 1807, ACI 318, ACI 332, NCMA TR68-A, OR ACE 530/ASCE5/TMS 402. FOUNDATION WALLS MAY BE STEPPED AND FRAMED W/ 2x6 @ 16" O.C. KNEE WALLS WHERE GRADE PERMITS.

MASONRY NOTES:

- CONCRETE MASONRY WALLS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF I'm = 1,500 PSI.
- 2. CONCRETE MASONRY UNITS SHALL BE MINIMUM LIGHTWEIGHT UNITS CONFORMING TO ACI 530/ASCE 5/TMS 402, WITH MAX LINEAR SHRINKAGE OF Ø.06% (1,900 PSI MINIMUM).
- 3. MORTAR SHALL BE TYPE "M" OR "S", CONFORMING TO IRC SECTION R601 AND TO ASTM C270.
- 4. ALL GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AT 28 DAYS. GROUT SHALL BE PROPORTIONED PER IRC TABLE R607.1 AND WITH SUFFICIENT WATER FOR POURING WITHOUT SEGREGATION OF GROUT CONSTITUENTS.
- 5. ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS AND ALL CELLS IN RETAINING WALLS AND WALLS BELOW GRADE SHALL BE SOLID GROUTED UNLESS OTHERWISE NOTED ON PLANS.
- 6. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS.
- 1. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 11/2" BELOW TOP OF THE UPPERMOST UNIT.
- 8. ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS. 9. PROVIDE INSPECTION AND CLEANOUT HOLES AT BASE OF VERTICAL
- CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT. 10. ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.
- II. ANCHOR BOLTS MUST BE SET WITH TEMPLATES AND HELD IN PLACE PRIOR TO GROUTING. PROVIDE AT LEAST ONE INCH OF GROUT BETWEEN ANCHOR BOLT AND MASONRY.
- 12. SPECIAL INSPECTION IS REQUIRED FOR F'm ≥ 1,500 PSI.

CONCRETE NOTES:

- 1. CONCRETE IN ALL WORK SHALL HAVE 3000 PSI ULTIMATE COMPRESSIVE
- STRENGTH AT 28 DAYS. CEMENT SHALL CONFORM TO ASTM C-15, TYPE I OR TYPE II.
- 3. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33. AGGREGATES FOR SHOTCRETE/GUNITE SHALL NOT EXCEED 3/1.

4. READY MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE

- WITH ASTM C-94-81. 5. ADMIXTURE MAY BE USED WITH THE PRIOR APPROVAL OF THE ENGINEER ADMIXTURE (COMPLYING WITH ASTM A494) USE TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE
- THE SPECIFIED MINIMUM CEMENT (CALCIUM CHLORIDE SHALL NOT BE USED). 6. WATER SHALL BE CLEAN, FREE FROM DELETERIOUS AMOUNT OF ACIDS, ALKALIS OR ORGANIC MATERIALS.
- 7. SLUMPS: THE MAXIMUM SLUMP SHALL NOT EXCEED 5". DURING TEMPERATURES ABOVE 80°F, MAXIMUM OF 6" SLUMP IS PERMISSIBLE PROVIDED THE MIX DESIGN IS REVISED ACCORDINGLY BY THE TESTING LABORATORY, AS APPLICABLE. MEASURE SLUMP IN ACCORDANCE WITH
- "METHOD OF TEST FOR SLUMP" OF PORTLAND CEMENT CONCRETE ASTM C143. 8. IF APPLICABLE, 34" DEEP CONTROL JOINTS ARE TO BE SAWCUT TO SUBDIVIDE ALL FLOOR SLABS ON GRADE INTO APPROXIMATELY SQUARE AREAS OF 400 SQ FT OR LESS. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING OR ADDING CONTROL JOINTS AS NECESSARY.

REINFORCING STEEL NOTES:

- 1. STEEL REINFORCEMENT SHALL BE: GR 40 = #4 & SMALLER ASTM A615 GR. 60 = #5 & LARGER ASTM A185 = WELDED WIRE FABRIC
- 2. REINFORCING DETAILING AND PLACING SHALL BE IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE" LATEST EDITION.
- 3. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- 4. REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING AMOUNTS OF CONCRETE COVER: FOOTINGS (CONC. DEPOSITED AGAINST EARTH)..

CONC. SURFACE (FORMED) EXPOSED TO EARTH OR WEATHER

- #6 THROUGH #18 BARS: #5 & SMALLER: CON. NOT EXPOSED TO EARTH OR WEATHER:
- SLAB, WALLS \$ JOIST: #14 4 #18 BARS:
- *11 BAR & SMALLER: BEAMS, COLUMNS : PRIMARY REINFORCEMENT TIES STIRRUPS, SPIRALS:...... 1/2"

3/4"

STRUCTURAL STEEL NOTES:

- STRUCTURAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE "AISC SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS", LATEST EDITION.
- 2. ALL STEEL SHAPES, PLATES AND BARS SHALL CONFORM TO ASTM A36 3. USE GRADE 50, A572 OR DUEL CERTIFIED FOR WIDE FLANGE BEAMS AND
- COLUMNS. 4. ALL STRUCTURAL TUBING SHALL CONFORM TO ASTM-A500, GRADE "B"
- Fy=46.ksi 5. ALL STEEL PIPES SHALL CONFORM TO ASTM-A53 GRADE-B. 6. MACHINE BOLTS, ANCHOR BOLTS, SHALL CONFORM TO ASTM A-30T
- (U.O.N.).
- 7. NUTS FOR MACHINE BOLTS SHALL CONFORM TO ASTM A563, HEX GRADE
- 8. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A325. 9. NUTS FOR HIGH STRENGTH BOLTS SHALL BE HEAVY HEX, GRADE "C" CONFORMING WITH ASTM A563.
- 10. ALL WELDING SHALL CONFORM TO A.W.S. STANDARDS AND SHALL BE PERFORMED BY CERTIFIED WELDERS. WELDS IDENTIFIED AS REQUIRING CONTINUOUS SPECIAL INSPECTION NEED NOT HAVE SPECIAL INSPECTION WHEN THE WELDING IS PERFORMED IN AN APPROVED FABRICATOR'S SHOP. APPROVED FABRICATORS MUST BE APPROVED IN ACCORDANCE WITH LOCAL BUILDING OFFICIAL (AS REQUIRED). PRIOR TO START OF WORK THE SPECIAL INSPECTOR SHALL CHECK WELDER QUALIFICATIONS AND VERIFY THAT WELDING PROCEDURE SPECIFICATIONS HAVE BEEN APPROVED AND ARE APPLICABLE TO THE WORK INTENDED. THE SPECIAL INSPECTOR SHALL CONTINUOUSLY OBSERVE THE WELDING WHILE
- BEING PERFORMED. 11. ALL WELDING SHALL CONFORM TO IBC REQUIREMENTS.
- 12. ALL WELDS TO BE ETØXX.
- 13. ALL FIELD WELDS TO BE SPECIAL INSPECTED. U.O.N. ON PLANS.
- 14. ALL FULL PENETRATION GROVE WELDS FOR DUCTILE MOMENT FRAME MEMBERS SHALL BE ULTRASONICALLY INSPECTED BY AN APPROVED TESTING AGENCY AND SHALL CONFORM TO THE LATEST EDITION OF AWS DI.1 SECTIONS 5 AND 6.
- 15. WEB CONNECTION OF RIGID FRAME BEAMS SHALL NOT BE TIGHTENED UNTIL FLANGE WELDS ARE COMPLETE ALONG EACH LINE OF COLUMNS AT
- EACH LINE OF FLOOR 16. HIGH STRENGTH BOLTING OF MAIN MEMBERS:
 - A. NON-RIGID FRAME CONNECTIONS LISTED BELOW SHALL HAVE ASTM A325N OR ASTM A49@N HIGH STRENGTH BOLTS U.O.N. I. BEAMS AND GIRDERS TO COLUMNS
 - 2. BEAMS TO GIRDERS 3. BEAMS TO BEAMS

NEEDED.

- B. NON-RIGID FRAME CONNECTIONS (GIRDER TO COLUMNS): ASTM A325SC OR ASTM A490SC HIGH STRENGTH BOLTS U.O.N.
- C. OTHER HIGH STRENGTH A325 BOLTS TO BE TESTED OCCASIONALLY AS DIRECTED BY THE STRUCTURAL ENGINEER. 17. CONTRACTOR SHALL PROVIDE ADEQUATE WEATHERPROOFING OF ALL STEEL COMPONENTS THAT ARE EXPOSE TO EXTERIOR CONDITIONS AS

PREFABRICATED WOOD TRUSSES AND WOOD JOIST NOTES:

- 1. PREFABRICATED WOOD TRUSSES (BY OTHERS) SHALL BE GANG NAILED TRUSSES.
- 2. PREFABRICATED WOOD JOISTS SHALL BE "BLI" BY BLUELINX CORPORATION (ESR 1262) EQUAL OR BETTER.
- 3. ALL TRUSSES/JOISTS SUPPORTING MECHANICAL EQUIPMENT SHALL BE PROPERLY DESIGNED BY TRUSS AND/OR JOIST MANUFACTURER.
- 4. WOOD TRUSSES AND/OR JOISTS SHALL BE DESIGNED FOR THE FOLLOWING LOADS:

ROOF:		FLOORS:				
D.L. = 16	PSF	D.L =	= 15 F	PSF		
*∟.∟ = 20	Ø PSF	*∟.∟ =	: 5Ø	PSF	OFFICES	
		↓. ↓. =	= <i>80</i>	PSF	CORRIDO	2 F
		=	40	PSF	ATTIC	

- *LIVE LOADS REDUCIBLE PER CODE (U.O.N.). CONSIDERATION SHOULD BE TAKEN FOR ADDITIONAL LOADS DUE TO MECHANICAL UNITS, PARTITIONS, TILE/STONE FINISHES, ETC.
- 5. TIE ROOF TRUSSES TO EXTERIOR TOP PLATES. PERIMETER BEAMS, AND ALL INTERIOR BEARING POINTS WHERE UPLIFT IS INDICATED ON TRUSS PROFILE DRAWINGS (BY OTHERS) USING PROPER SIMPSON TIE-DOWN (U.N.O.).

WOOD NOTES:

PARTITIONS.

PROPERTIES:

- . ALL WOOD FRAMING SHALL BE AS FOLLOWS (U.O.N.): A. ROOF RAFTERS & CEILING JOISTS: NO.1/NO.2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES: Fb = 875 PSI Fv = 135 PSI E = 1.4x10°6 PSI B. FLOOR JOISTS: NO.2 SOUTHERN YELLOW PINE (SYP) WITH THE FOLLOWING DESIGN
- Fb = 875 PSI Fv = 175 PSI E = $1.4 \times 10^{\circ}$ 6 PSI 2. WOOD GRADES (U.O.N.) A. FOR HORIZONTAL MEMBERS JOISTS & RAFTERS
 - BEAMS & STRINGERS GRADE: NO. 2 (U.O.N.) GRADE: NO. 1 PURLING SUB-PURLING: 2×4 GRADE: NO. 1
 - GRADE: NO. 2 LEDGERS & NAILERS GRADE: NO. 2 HEADERS GRADE: NO. 2 (U.O.N.)
- B. FOR VERTICAL MEMBERS TOP & BOTTOM PLATES: MATCH
- VERTICAL MEMBERS, GRADE NO. 2 MIN (U.N.O.). NO. 2 4X POST GRADE: 6X POST GRADE: NØ. 2
- STUD OR BETTER, 9'-0" MAX (U.O.N.) STUDS: GRADE:
- 3. FRAMING IN CONTACT WITH CONCRETE OR MASONRY, OR MEMBERS EXPOSED TO WEATHER SHALL BE NO. 2 SOUTHERN YELLOW PINE (SYP) TREATED IN ACCORDANCE WITH AWPA C22 WITH THE FOLLOWING DESIGN
 - PROPERTIES: Fb = 1,050 PSI Fv = 55 PSI E = $1.6 \times 10^{\circ}6$ PSI SILL AND LEDGER BOLTS SHALL BE PLACED 12" MAX FROM ID ENDS AND NOTCHES AND SPACED AT 6' O.C. MAX, U.O.N. (2 BOLTS MIN/PIECE
- 4. ALL PLYWOOD AND 06B SHALL BE CERTIFIED AS CONFORMING TO U.S. PRODUCTS STANDARD PS-2-92 BY A CERTIFICATION AGENCY
- APPROVED BY THE NATIONAL EVALUATION SERVICES INC. OR I.C.C. 5. ALL BOLT HEADS AND NUTS BEARING ON WOOD SHALL HAVE WASHERS. ALL BOLT HOLES IN WOOD SHALL BE DRILLED 1/16" MAXIMUM DIAMETER
- LARGER THAN THE NOMINAL BOLT DIAMETER. 6. PROVIDE JOIST(S) UNDER ALL PARALLEL NON-BEARING PARTITIONS AND SOLID BLOCKING UNDER ALL PERPENDICULAR NON-BEARING
- 1. ALL FRAMING ANCHORS, POST CAPS, COL. BASES, ETC. NOTED ARE MANUFACTURED BY 'SIMPSON' OR APPROVED EQUAL. OTHER HARDWARE COMPANIES (E.I. ACS, USP) MAY BE SUBSTITUTED PROVIDED ALL PRODUCTS HAVE A CURRENT ICC-ES REPORT AND EQUIVALENT LOAD
- CAPACITIES. USE COMMON NAILS AS SPECIFIED BY MANUFACTURER. 8. PLYWOOD FLOOR SHEATHING SHALL BE GLUED TO FLOOR JOISTS WITH ONE CONTINUOUS BEAD OF AN ADHESIVE COMPOUND CONFORMING TO ASTM D 3024 AND IN ACCORDANCE WITH THE MANUFACTURER'S
- DIRECTIONS. 9. CUTTING, NOTCHING OR DRILLING OF BEAMS OR JOISTS SHALL BE
- PERMITTED ONLY AS DETAILED OR APPROVED BY THE ENGINEER 10. BOLTS IN WOOD SHALL NOT BE LESS THAN 7 DIAMETERS FROM THE END
- AND 4 DIAMETERS FROM THE EDGE OF THE MEMBER (U.O.N.). II. MOISTURE CONTENT OF WOOD AT TIME OF PLACING SHALL NOT EXCEED
- 12. ALL NAILS SHALL BE COMMON NAILS (U.O.N.). 13. PROVIDE SOLID BLOCKING TO GIRDERS AND/OR FOUNDATION BENEATH
- POINT LOADS AS DENOTED BY: 14. SECURE LOAD BEARING HEADERS TO EACH JACK STUD W/ (4) 8d NAILS. BEAM/HEADER SUPPORTS REQUIRING MORE THAN (1) JACK ARE DENOTED BY: N-2 (WHERE 2 JACKS ARE REQ'D FOR EXAMPLE). KING STUDS AT EACH END OF THE OPENING SHALL BE 1/2 THE NUMBER OF STUDS
- INTERRUPTED BY THE OPENING, TYP (U.O.N.). 15. OVERFRAME ROOF W/ FLAT 2XIØ PLATES W/ (2) 16d COMMON TO RAFTERS/TRUSSES AT FALSE VALLEYS.

PREFABRICATED WOOD BEAM NOTES:

- PREFABRICATED WOOD BEAMS SHALL BE "ONCENTER" LYLS AS INDICATED ON PLANS, MANUFACTURED BY BLUELINX, U.O.N (EQUIVALENT OR BETTER SUBSTITUTE IS ALLOWED) W/ MULTI-PLY MEMBERS BUILT-UP
- PER MFR REQUIREMENTS. ALLOWABLE DESIGN STRESSES:

(LVL) Fb = 3,100 PSI E = 2.1 x 106 PSI Fv = 285 PSI

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN

ROOF: 20PSF REDUCIBLE

DESIGN LOADS: IMPORTANCE FACTORS: SNOW (15): 1.0

SEISMIC (IE): 1.0 LIVE LOADS: FLOOR: 50PSF OFFICE 80PSF CORRIDOR ATTIC: 40PSF

GROUND SNOW LOAD: 15 PSF WIND LOADS: ULTIMATE WIND SPEED: 115 MPH (ASCE-7) EXPOSURE CATEGORY B

SEISMIC DESIGN CATEGORY: A B C D PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS: BASIC STRUCTURAL SYSTEM± X BEARING WALL DUAL W/SPECIAL MOMENT FRAME

BUILDING FRAME DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL MINVERTED PEDULUM MOMENT FRAME ANALYSIS PROCEDURE: SIMPLIFIED X EQUIVALENT LATERAL FORCE DYNAMIC ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED X YES NO

IN.(")

INCH(ES)

LATERAL DESIGN CONTROL: TEARTHQUAKE WIND

SOIL BEARING CAPACITIES: FIELD TEST (PROVIDE COPY OF TEST REPORT) N/A PSF PRESUMED BEARING CAPACITY 2,000 PSF PILE SIZE, TYPE, AND CAPACITY N/A

STRUCTURAL ABBREVIATIONS

A.B. ABV.	ANCHOR BOLT ABOVE	JST. JT.	JOIST JOINT
ADD'L	ADDITIONAL	K	KIPS(1000)
ADJ. ALUM	ADJACENT ALUMINUM	LAT.	LATERAL
APA,	AMERICAN PLYWOOD ASSOCIATION	LB(#)	POUND(S)
ALT.	ALTERNATE	L.B.	LAG BOLTS
APPRX.	APPROXIMATELY	L.F.	LINEAR FEET(FOOT)
ARCH.	ARCHITECTURAL	LGTH.	LENGTH
4	AND	LLH	LONG LEG HORIZ.
a 	AT SEL ON	LG.	LONG(ITUDINAL)
SLW = =	BELOW BRACED EDAME	LLY	LONG LEG VERT.
3.F.	BRACED FRAME	LT.WT.	
BLDG.	BUILDING		
BLK	BLOCK	MAS.	MASONRY
BLKG.	BLOCKING	MAT'L	MATERIAL
BM	BEAM	MAX.	
3.N.	BOUNDARY NAILING	M.B.	MACHINE BOLT
BNDRY.	BOUNDARY		MEZZANINE
3. <i>0.</i> F.	BOTTOM OF FOOTING	MFR.	MANUFACTURER
BRDG.	BRIDGE(ING)	MISC.	MISCELLANEOUS
BRG.	BEARING	MIN.	MINIMUM
30TT.	BOTTOM	MTL.	METAL
		NO.(#)	NUMBER
STWN. 36.	BETWEEN BOTH SIDES	N.S.	NEAR SIDE
	CAMBER(ED)	N.T.S.	NOT TO SCALE
SE.	CARBON EQUIVALENT	O.C.	ON CENTER
SANT.	CANTILEVER(ED)	0.D.	OUTSIDE DIAMETER
S.F.	CUBIC FEET(FOOT)	PAR	PARALLEL
C.I.P.	CAST IN PLACE	P/C	PRECAST
\$	CENTER LINE		PERPENDICULAR
- CLG.	CEILING	P.	PLATE
SLR.	CLEAR	PLY.	
SOL.	COLUMN	•	POUNDS PER SQUARE FOOT
	CONCRETE	P.S.I. P.S.L.	POUNDS PER SQUARE INCH PARALLAM BEAM
CONN.	CONNECTION	P.T.	PRESSURE TREATED
CONST.	CONSTRUCTION	QTY.	QUANTITY
CONT.	CONTINUOUS	RAD(R)	RADIUS
CTSK.	COUNTERSINK		REINFORCED CONCRETE PIPE
CTR.	CENTER(ED)		REFERENCE
C.Y.	CUBIC YARD		RIGID FRAME
d	PENNY(NAILS)		
DBL.	DOUBLE	REINF.	
DEPT.	DEPARTMENT	REQ'D	
DIA.	DIAMETER		ROUGH OPENING
DIAPH.	DIAPHRAGM	SCH.	SCHEDULE
DIM.	DIMENSION	SHT.	SHEET
DN.	DOWN	SIM.	SIMILAR
DP.	DEEP	SKW.	SKEW(ED)
DWG.	DRAWING(S)		SOUTHERN PINE
DWL.	DOWEL(S)	SPC. SPF.	SPACE(ING) SPRUCE PINE FIR
EA.	EACH		SPECIFICATION(S)
E.F.	EACH FACE	SQ.	SQUARE
E.J.	EXPANSION JOINT		STANDARD
EL.	ELEVATION	STGR.	
ELEY.	ELEVATION	STIF.	STIFFENER(S)
EMBD.	EMBED(MENT)		
	EDGE NAIL	STIR.	
		STL	STEEL
ENG.	ENGINEER	STRUC.	STRUCTURAL
EQ.	EQUAL	SUSP.	SUSPENDED(TION)
EXP. FAB.	EXPANSION FABRICATION	SYMM.	SYMMETRICAL
FAB. FDN.	FOUNDATION	T#B	TOP AND BOTTOM
FIN.	FINISHED	T#G	TONGUE AND GROOVE
FLG.	FLANGE	TEMP.	TEMPERATURE
FLR.	FLOOR		
F.N.	FIELD (FACE NAIL)	THK.	THICKNESS
F.O.C	FACE OF CONCRETE	THRD.	THREADED
F.O.M.	FACE OF MASONRY	TMPRY	TEMPORARY
F.O.S.	FACE OF STUD	T.N.	TOE NAIL
F.O.W.	FACE OF WALL		TOP OF SHEATHING
FRM.	FRAME(ING)	T.O.W.	
F.S.	FAR SIDE	T.S.	TOP OF STEEL
FT.(')	FOOT(FEET)	TRANSY.	
FTG.	FOOTING	TYP.	TYPICAL
GA.	GAUGE	u.o.n.	UNLESS OTHERWISE NOTED
GALY.	GALVINIZE(D)		VERTICAL
GB	GRADE BEAM	(M)	WIDE(WIDTH)
GLB	GLUED LAMINATED BEAM	w/ * D	WITH
GRD.	GRADE	WD.	WOOD
GYPBD	GYPSUM WALLBOARD	W.P.	WORK POINT
HD	HOLD DOWN	WPJ.	WEAKENED PLANE JOINT
HDR.	HEADER	W.S.	WELDED STUD(S)
HGR.	HANGER	MT.	WEIGHT
	HORIZONTAL	MMF	WELDED WIRE FABRIC
HSB	HIGH STRENGTH BOLTS	X-STG	EXTRA STRONG
HT.	HEIGHT		
I.D.	INSIDE DIAMETER	XX-STG	DOUBLE EXTRA STRONG
		YD.	YARD
LE.	INVERT ELEVATION	, D .	

REVISIONS

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and Son the Building wy 410 N. ul Barbour an New Office B 11496 Hwy ² Fuquay Varina,

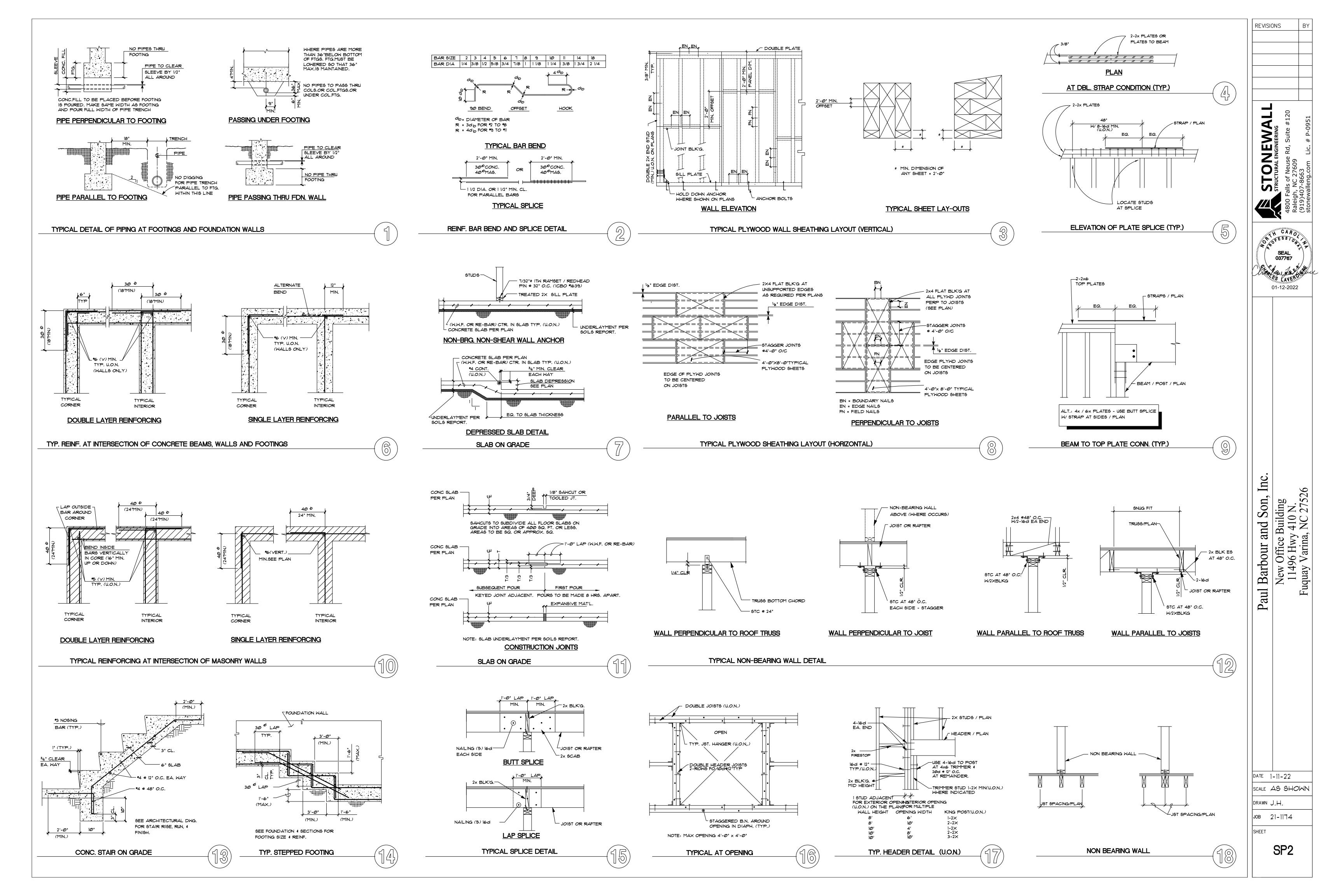
Paul

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DATE 1-11-22 SCALE AS SHOWN

DRAWN J.H. JOB 21-1174

SHEET



FASTENER SCHEDULE FOR STRUCTURAL MEMBERS NUMBER & TYPE OF FASTENER ADA DESCRIPTION OF BUILDING ELEMENTS SPACING OF FASTENERS JOIST TO SILL OR GIRDER, TOE NAIL (3) 8d (2½"xØ.113") (2) 8d (2½ "xØ.113") (2) STAPLES - 1¾" 1"x 6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL 2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL (2) 16d (31/2 "xØ.135" SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL 16d (31/2"x0.135" 16" o.c. TOP OR SOLE PLATE TO STUD, END NAIL (2) 16d (31/2 "xØ.135") (3) 8d (21/2 "xØ.113") OF STUD TO SOLE PLATE, TOE NAIL (2) 16d (3½"xØ.135". DOUBLE STUDS, FACE NAIL 10d (3"x0.128") 24" O.C. DOUBLE TOP PLATES, FACE NAIL 10d (3"x0.128") 24" O.C. SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANELS (3) 16d (31/2"x0.135") DOUBLE TOP PLATES. MINIMUM 24-INCH OFFSET OF END JOINTS, (8) 16d (3½ "xØ.135") FACE NAIL IN LAPPED AREA BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE, TOE NAIL (3) 8d (21/2 "x0.113". RIM JOIST TO TOP PLATE, TOE NAIL 6" O.C. TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS, FACE NAIL BUILT-UP HEADER, TWO PIECES WITH 1/2" SPACER 16d (3½"xØ.135") 16" O.C. ALONG EACH EDGE 16d (31/2 "x0.135". 16" O.C. ALONG EACH EDGE CONTINUED HEADER, TWO PIECES (3) 8d (2½"xØ.113") CEILING JOISTS TO PLATE, TOE NAIL (4) 8d (21/2 "xØ.113") (3) 10d (3"x0.128") CEILING JOIST, LAPS OVER PARTITIONS, FACE NAIL CEILING JOIST TO PARALLEL RAFTERS, FACE NAIL (3) 10d (3"x0.128") RAFTER TO PLATE, TOE NAIL (2) 16d (3½ "xØ.135" " BRACE TO EACH STUD AND PLATE, FACE NAIL (2) 8d (2½"xØ.113") (2) STAPLES - 1¾" 1"x6" SHEATHING TO EACH BEARING, FACE NAIL (2) 8d (2½ "x0.113") (2) STAPLES - 134" 1"x8" SHEATHING TO EACH BEARING, FACE NAIL (2) 8d (2½ "xØ.113". (3) STAPLES - 134" (3) 8d (2½"xØ.113" (4) STAPLES - 1¾' WIDER THAN 1"X8" SHEATHING TO EACH BEARING, FACE NAIL BUILT-UP CORNER STUDS 10d (3"x0.128") NAIL EACH LAYER AS FOLLOWS: 32" O.C. AT TOP & BOTTOM & STAGG TWO NAILS @ ENDS & @ EA SPLICE BUILT-UP GIRDERS AND BEAMS, 2-INCH LUMBER LAYERS 10d (3"x0.128") 2" PLANKS (2) led (31/2"x0.135") ROOF RAFTERS TO RIDGE, VALLEY OR HIP RAFTERS:

(3) 8d (2½"xØ.113".

(3) 10d (3"x0.128")

(3) 16d COMMON, (4) 3"xØ.131" NAIL,

(4) 3"xI4 GAGE STAPLE

FACE NAIL AT 4" ON CENTER

UNDER EACH JOIST

FACE NAIL

RAFTER TIES TO RAFTERS, FACE NAIL

LEDGER STRIP

COLLAR TIE TO RAFTER, FACE NAIL, OR 11/4 "X20 GA RIDGE STE

DESCRIPTION OF BUILDING		SPACING OF FASTENERS			
MATERIALS	DESCRIPTION OF FASTENER base	EDGES (INCHES) IN	ITERMEDIATE SUPPORTS CA (INCHES)		
NOOD STRUCT'L PANELS, SUBF	LOOR, ROOF & WALL SHEATHING TO FRAMING,	4 PARTICLEBOARI	O WALL SHEATHING TO FRAMING		
5/16"-1/2"	6d COMMON (2"x0.113") NAIL (SUBFLR, WALL) 8d COMMON (2½"x0.131) NAIL (ROOF) F	6	129		
19/32"-1"	8d COMMON (2½"xØ.131")	6	129		
1 1/8"-114"	IØd COMMON (3"xØ.148") NAIL OR 8d (2½"xØ.131) DEFORMED NAIL	6	12		
	OTHER WALL SHEATHING				
1/2" STRUCTURAL CELLULOSIC FIBERBOARD SHEATHING	$1\frac{1}{2}$ " GALVANIZED ROOFING NAIL 8d COMMON (2½"x \emptyset .131") NAIL, STAPLE 16 ga $1\frac{1}{2}$ " LONG	3	6		
25/32" STRUCT'L CELLULOSIC FIBERBOARD SHEATHING	$ ^34 ^{\circ}$ GALVANIZED ROOFING NAIL 8d COMMON (2 $^12 ^{\circ}$ X0.131") NAIL, STAPLE 16 ga $ ^34 ^{\circ}$ LONG	3	6		
½" GYPSUM SHEATHING⊄	1½" GALVANIZED ROOFING NAIL , 6d COMMON (2"x@.131") NAIL , STAPLE GALV 1½" LONG, 1¼" SCREWS - TYPE W OR S	4	8		
%" GYPSUM SHEATHING⊄	³ 4" GALVANIZED ROOFING NAIL, 8d COMMON (2 ¹ / ₂ "xØ.131") NAIL, STAPLE GALV ³ 8" LONG, ³ 8" SCREWS - TYPE W OR S	4	8		
WOOD STR	UCTURAL PANELS, COMBINATION SUBFLOOR UN	IDERLAYMENT TO F	FRAMING		
34" AND LESS	6d DEFORMED (2"x0,120") NAIL OR 8d COMMON (2½"x0,131") NAIL	6	12		
78"-1"	8d COMMON (2½"xØ.131") NAIL OR 8d DEFORMED (2½"xØ.120") NAIL	6	12		
1 1/8"-14"	10d COMMON (3"x0.148") NAIL OR 8d DEFORMED (2½"x0.120") NAIL	6	12		

- FOR SI: | INCH = 25.4 mm, | FOOT = 304.8 mm, | MILE PER HOUR = 0.447 m/s, | ksi = 6.895 MPa. ALL NAILS ARE SMOOTH-COMMON, BOX OR DEFORMED SHANKS EXCEPT WHERE OTHERWISE STATED. NAILS USED FOR FRAMING AND SHEATHING CONNECTIONS SHALL HAVE MINIMUM AVERAGE BENDING YIELD STRENGTHS AS SHOWN - 80 KM FOR SHANK DIAMETER OF 0.192 INCH (20d COMMON NAIL), 90 KM FOR SHANK DIAMETERS LARGER THAN 0.142 INCH BUT NOT LARGER THAN 0.171 INCH, AND 100 KM FOR SHANK DIAMETERS LARGER THAN 0.142 INCH BUT NOT LARGER THAN 0.171 INCH, AND 100 ksf FOR SHANK DIAMETERS OF 0.142 INCH OR LESS.
- D. STAPLES ARE 16 GAGE WIRE AND HAVE A MINIMUM 1/16-INCH ON DIAMETER CROWN WIDTH. C. NAILS SHALL BE SPACED AT NOT MORE THAN 6 INCHES ON CENTER AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR GREATER.
- d. FOUR-FOOT-BY-8-FOOT OR 4-FOOT-BY-9-FOOT PANELS SHALL BE APPLIED VERTICALLY.
- s. SPACING OF FASTENERS NOT INCLUDED IN THIS TABLE SHALL BE BASED ON TABLE R602.3 (2) FOR REGIONS HAVING BASIC WIND SPEED OF 110 MPH OR GREATER, 8d DEFORMED (2 1/2"x0,120") NAILS SHALL BE USED FOR ATTACHING PLYWOOD AND WOOD STRUCTURAL PANEL ROOF SHEATHING TO FRAMING WITHIN MINIMUM 48-INCH DISTANCE FROM GABLE END WALLS, IF MEAN ROOF HEIGHT IS MORE THAN 25 FEET, UP TO 35 FEET MAXIMUM.
- 3. FOR REGIONS HAVING BASIC WIND SPEED OF 100 MPH OR LESS, NAILS FOR ATTACHING WOOD STRUCTURAL PANEL ROOF SHEATHING TO GABLE END WALL FRAMING SHALL BE SPACED 6 INCHES ON CENTER. WHEN BASIC WIND SPEED 15 GREATER THAN 100 MPH, NAILS FOR ATTACHING PANEL ROOF SHEATHING TO INTERMEDIATE SUPPORTS SHALL BE SPACED 6 INCHES ON CENTER FOR MINIMUM 48-INCH DISTANCE FROM RIDGES, EAVES AND GABLE END WALLS, AND 4 INCHES ON CENTER TO GABLE END WALL FRAMING.
- GYP9UM SHEATHING SHALL CONFORM TO ASTM C79 AND SHALL BE INSTALLED IN ACCORDANCE WITH GA 253. FIBERBOARD SHEATHING SHALL CONFORM TO ASTM C208. . SPACING OF FASTENERS ON FLOOR SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING AND AT ALL FLOOR PERIMETERS ONLY. SPACING OF FASTENERS ON ROOF SHEATHING PANEL EDGES APPLIES TO PANEL EDGES SUPPORTED BY FRAMING MEMBERS AND REQUIRED BLOCKING. BLOCKING OF ROOF OR FLOOR SHEATHING PANEL EDGES PERPENDICULAR TO THE FRAMING MEMBERS NEED NOT BE PROVIDED EXCEPT AS REQUIRED BY OTHER PROVISIONS OF THIS CODE. FLOOR PERIMETER SHALL BE SUPPORTED BY FRAMING MEMBERS OR SOLID BLOCKING. ROOF SHEATHING 1/16-INCH OR GREATER IN THICKNESS DOES NOT REQUIRE PERIMETER BLOCKING.

<u>COMMON</u>	ABBREVIATIONS:

C. K. C.	REFERENCE GAUGE MINIMUM MAXIMUM
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PLY. :
GYP. :
BD. :
CONN. :
T.N. :
(U.O.N.) :
SCHED. :
STR | : GYPSUM : BOARD : CONNECTION UNLESS OTHERWISE NOTED

SCHEDULE CDX BLKG REQ'D.

EXTERIOR GRADE PLYWOOD BLOCKING REQUIRED SHEAR WALL

SHEARWALL SCHEDULE

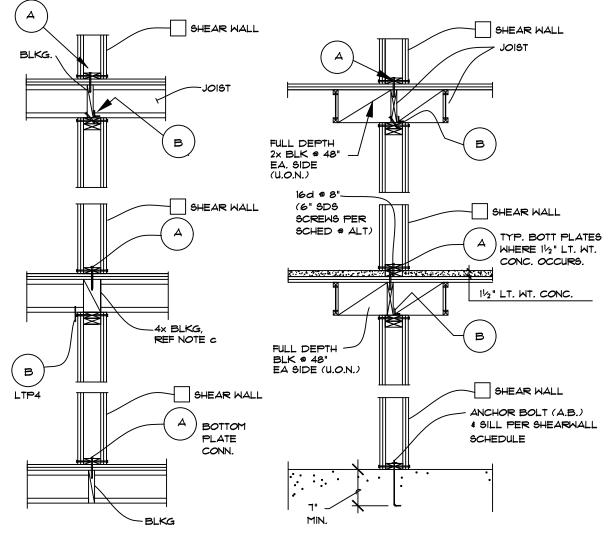
SHEAR WALL			ION CONN.		CONNECTION	BSHEAR TRANSFER			
MARK	MATERIAL (1)	EDGE NAILING W/	½" DIA A BOLT SF 2x SILL	NCHOR PACING 3 (2) 2x SILL		SDS14×41/2 e	LTP4 (H) OR A35 SPACING BLK OR JOIST TO TOP ES 5 6	ALLOWABLE SHEAR (LB/FT)	REFERENCE NOTES
1	¾" PLY CDX	8d ක 6"	48"	-	6"	-	32" OR T.N. 16d SINKERS AT 6"	200	d
2	%" PLY CDX	8d @ 6"	48"	-	4"	-	22" OR T.N. 16d SINKERS AT 4"	282	a
3	%" PLY CDX	8d ක 4"	31"	-	3"	-	15" OR T.N. 16d SINKERS AT 2"	411	а
4	%" PLY CDX	8d @ 3"	24"	-	-	3"	12"	529	c # d
5	%" PLY STR 1	8d @ 2"	-	22"	-	"ד	3"	683	c, d, \$ e
6	%" PLY CDX (B6)	8d @ 2"	-	11"	-	3"	4"	1366	a, b, c, ∉ e
٦	15/32" PLY STR 1	8d @ 3"	18"	-	-	6"	3"	708	c # d
8	15/32" PLY STR 1	10d a 2"	-	13"	-	4"	5"	1120	a, c, ‡ e
9	15/32" PLY STR 1 (BS)	8d @ 3"	-	10"	-	3"	8" (BS) STAGG'D	1416	a, b, c, ∉ e
10	15/32" PLY STR 1 (BS)	100 a 3"	-	8"	-	2" STAGG'D	6" (BS) STAGG'D	וודו	a, b, c, ‡ e
11	15/32" PLY STR 1 (BS)	10d a 2"	-	"ד	-	2" STAGG'D	6" (BS) STAGG'D	215Ø	a, b, c, ∉ e



- (2) ALL PLYWOOD NAILING SHOULD BE WITH COMMON NAILS (MAY SUBSTITUTE GALVANIZED BOX). FIELD NAILING SHALL BE MATCHING SIZE COMMON NAILS @ 12" O.C.
- 3) ALL ANCHOR BOLTS TO BE 10" LONG @ 2x SILL # 12" LONG @ (2) 2x SILL. ALL ANCHORS SHALL HAVE MIN 14"x3"x3" PLATE WASHERS. PLACE ALL ANCHORS A MINIMUM DISTANCE OF 5" (AND A MAXIMUM OF 12") FROM THE ENDS OF SILL PLATES. MINIMUM 2 ANCHOR BOLTS PER WALL OR PIECE OF SILL.
- (4) $5D61/4 \times 41/2$ SCREWS MAY BE SUBSTITUTED WITH 3/6" 4×6 " LAG SCREWS WITH PREDRILLED HOLES. MINIMUM STAGGER DISTANCE IS 11/2". MINIMUM EDGE DISTANCE IS 1". VERIFY MINIMUM SDS/LAG SCREW SPACING AND LEAD HOLE REQUIREMENTS WITH SCL MANUF, OR USE 4x MEMBERS PER REF NOTE c.
- 5) AT ALL ROOF PLATES W/ FRAMING PERPENDICULAR TO WALL USE A35 @ 24" OR HI PER TRUSS (@ 24" MAX) TYPICAL, U.O.N.
- (6) USE FULL DEPTH 2x FOR RIM OR BLOCKING (U.O.N.).

REFERENCE NOTES:

- a. (2)2x SILL, 4 4x BLOCKING REQUIRED @ INTERMEDIATE PANEL JOINTS. STITCH NAIL (2)2x TOP PS AND SILL USING 16d COMMON STAGG'D AT MATCHING SPACING TO PANEL E.N.
- b. SHEARWALLS WITH PLYWOOD ON BOTH SIDES: VERTICAL INTERIOR JOINTS ON OPPOSITE SIDES OF THE WALL SHALL BE STAGGERED.
- c. (A)-CONNECTIONS TO FLOOR FRAMING USE 4x MIN RIM OR BLOCKING BENEATH WALLS WITH 16d SINKERS @ 2"o.c. OR CONNECTIONS WITH SDS/LAG SCREWS AS REQUIRED BY SCL MANUFACTURER.
- d. 2x BLK'G REQUIRED AT ALL PANEL JOINTS.
- e. USE 6" LONG SDS SCREW (A)FLOOR CONNECTION W/ (2) 2x SILL.



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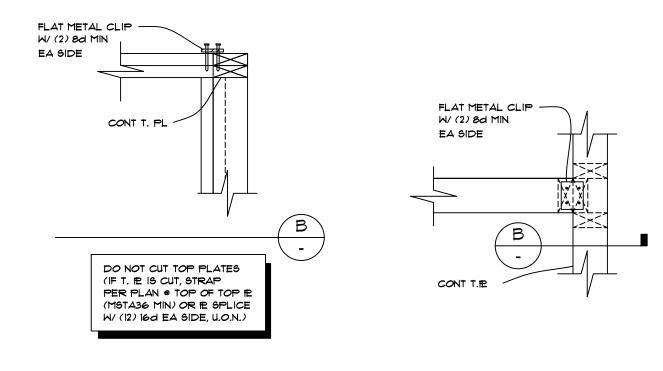
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SHEARWALL SECTIONS

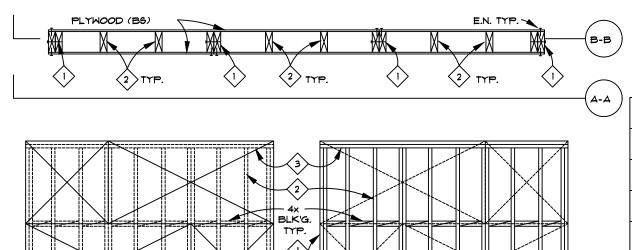


PERPENDICULAR WALLS . EXTERIOR/INTERIOR S.W.'s + DRAG LINES

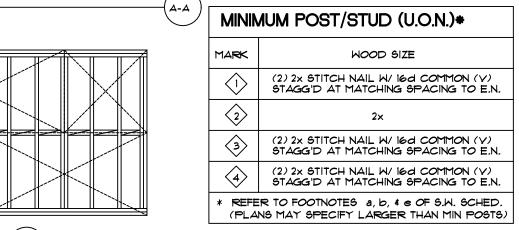
DIMENSIONS ANCHOR BOLT MIN CONC (2) MIN HD | NAILS/ COVER ON "B" (MIN) ANCHOR BOLT (MIN) MONO POUR TWO POUR SCREWS CL LTT19 (2)2×4 (8) 10d SSTB16 SSTB2Ø 1³⁄8" 1³⁄4" LTTI31 (18) 1Ød SSTB16 SSTB2Ø 1³⁄8" SSTB2Ø SSTB24 15/16" (26) 10d SSTB24 SSTB28 15/16" HDU2 (2)2×4 (6) SDS3 SSTB16 (5) SSTB2Ø (5) 15/16" HDU4 SSTB16 (5) (2) 2×4 (10) SDS3 SSTB2Ø (5) 15/16" HDU5 (14) SDS3 SSTB24 (5) SSTB28 (5) (2)2×4 15/16" (3) 2×4 (20) SDS44 1³/8" HDUS SSTB28 (5) SSTB34 (5) 11/4" HDQ8 (3)2×4 (2Ø)SDS41/2 SSTB28 (5) SSTB34 (5) HDU11 1"Φ 1"φ 1³⁄4" 13/8" HHDQII (24) SDS6 1"φ 1"φ HHDQ14 (30) SDS8 |"φ |"φ 11/2 " 20" HDU14 (36) SDS6 (4)2×4 1"Φ 1 9/16" HD19 2Ø" 21/s" 20" (4) (5) 1"ゅ 1¹⁄4"φ 1¹⁄4"φ

HOLDOWN NOTES

- 1. ALL HOLDOWN ANCHOR BOLTS SHALL BE SECURLY FASTENED IN PLACE PRIOR TO PLACING CONCRETE.
- 2. PROVIDE COVER AT EARTH FORMED SURFACES PER REINFORCING STEEL NOTES AT ALL HOLDOWN ANCHOR BOLTS (U.O.N.).
- 3. PROVIDE 8" MINIMUM FOOTING OR STEM WALL WIDTH.
- A (EACH WAY AT CORNER) 4. SEE DETAIL
- 5. USE SSTBL MODELS FOR HOLDOWNS ON (2) 2x AND 4x SILL PLATES.

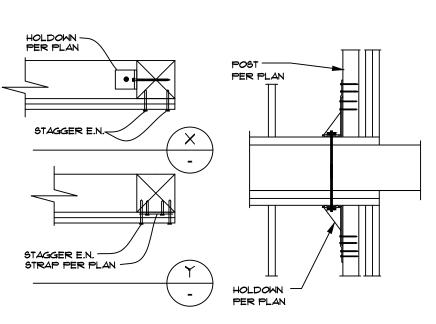


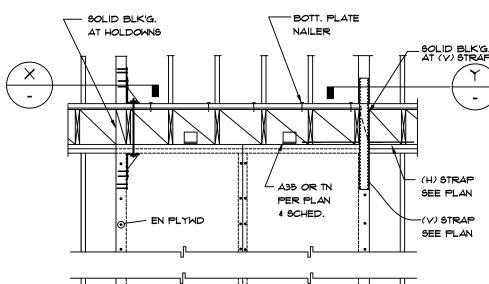
DOUBLE SHEAR WALL SECTIONS (PLYWOOD HORIZ.)

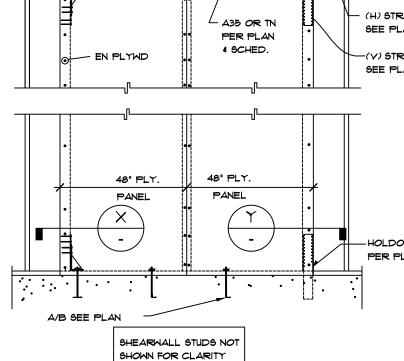


DOUBLE SHEAR WALL POST/STUD SCHEDULE

FHD / PLAN, TYP

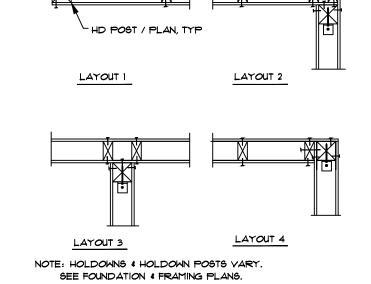






DOUBLE SHEAR WALL SECTIONS (PLYWOOD VERT.

(c-c)



TYPICAL HOLDOWN LOCATION

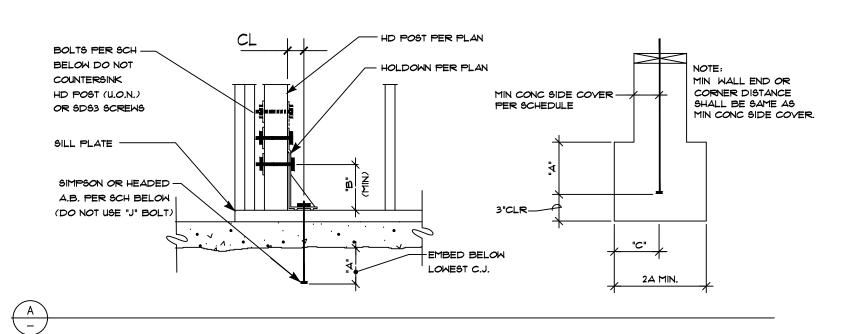
HOLDOWN BETWEEN FLOORS

HOLDOWN BETWEEN FLOORS HOLDOWN PER PLAN

DATE 1-11-22 SCALE AS SHOWN DRAWN J.H.

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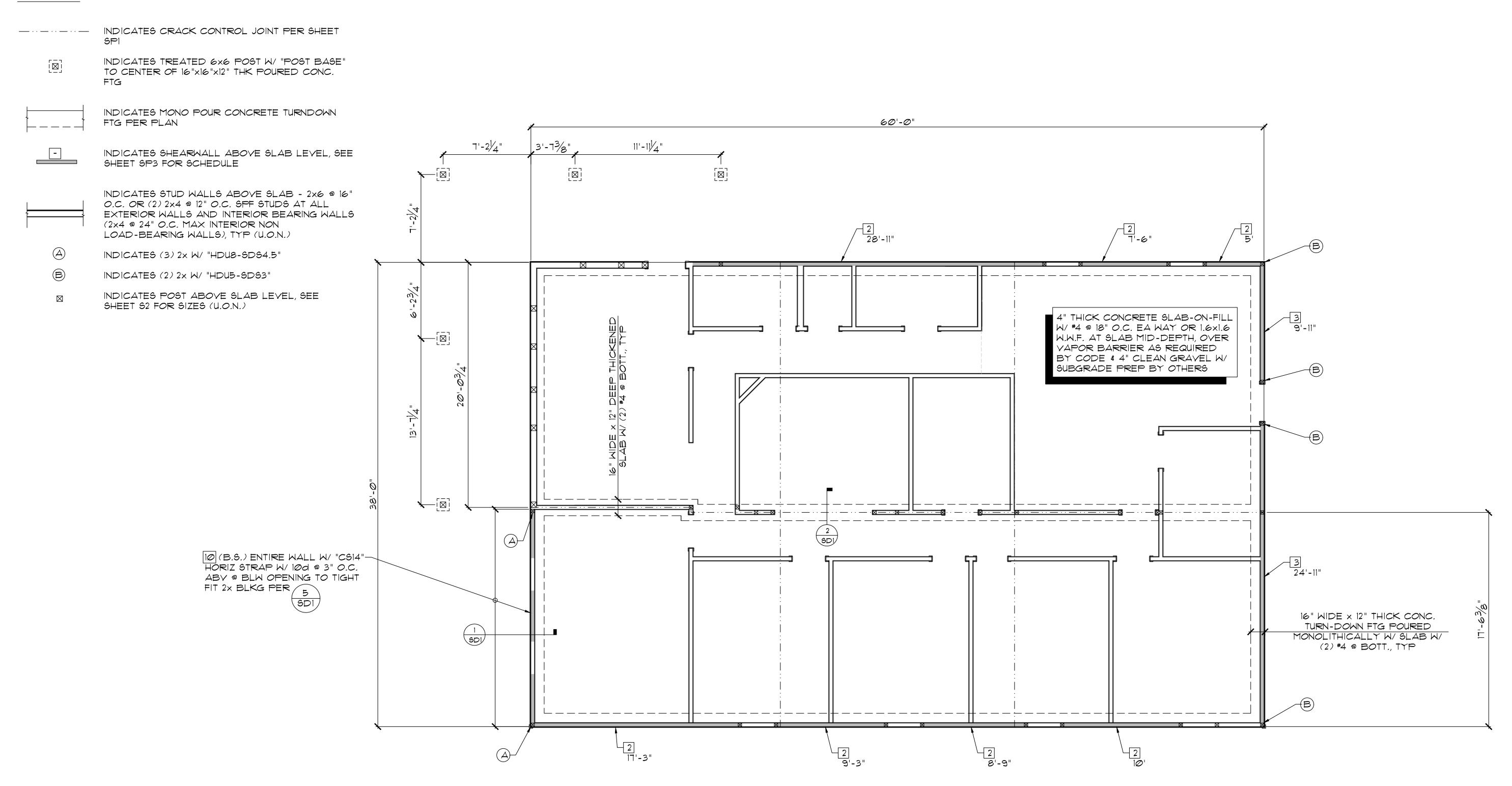
TYPICAL HOLDOWN DETAIL

(D-D)

FOUNDATION NOTES:

- I. ASSUMED SOIL BEARING CAPACITY IS 2,000 PSF. CONTRACTOR MUST CONTACT A SOILS ENGINEER IF UNSUITABLE SOILS ARE ENCOUNTERED.
- 2. ADEQUATE DRAINAGE SHALL BE PROVIDED FOR THE SURFACE AREA ADJACENT TO THE STRUCTURE SUCH THAT WATER DRAINS AWAY FROM STRUCTURE.
- 3. VERIFY ALL DIMENSIONS W/ FLOOR PLAN (BY OTHERS) PRIOR TO WORK.
- 4. LOCATION AND ORIENTATION OF STRUCTURE OF PROPERTY BY OTHERS.
- 5. FOR ADDITIONAL NOTES, SEE "SP" SHEETS.

LEGEND:



FOUNDATION PLAN

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

REVISIONS BY

STONEMALL
STRUCTURAL ENGINEERING
Falls of Neuse Rd, Suite #120
gh, NC 27609

STRUCTION OF STRUCTUS OF

01-12-2022

Paul Barbour and Son, Inc.
New Office Building

New Office Buildir 11496 Hwy 410 N Fuquay Varina, NC 27

DATE 1-11-22
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FLOOR FRAMING NOTES:

- 1. FLOOR SHEATHING IS TO BE 34 " PLY T & G (48/24) CDX BN. & EN. 10d @ 6", FN. 10d @ 12" U.O.N.
- 2. (20) 16d EACH SIDE OF TOP PLATE SPLICE (TYP. U.O.N.).
- 3. B.N. OVER ALL DRAGS & E.N, ALL VERTICAL POSTS AT SHEARWALLS (TYP).
- 4. VERIFY ALL DIMENSIONS W/ FLOOR PLAN (BY OTHERS) PRIOR TO WORK.
- 5. FOR ADDITIONAL NOTES, SEE "SP" SHEETS.

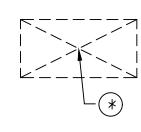
LEGEND:

INDICATES FLOOR JOIST OR RAFTER PER PLAN ___/___ INDICATES 2x6 @ 16" O.C. PORCH CEILING JOSITS INDICATES 2x6 @ 16" O.C. OR (2) 2x4 @ 12" O.C. SPF STUDS AT ALL EXTERIOR WALLS AND INTERIOR BEARING WALLS (2x4 @ 24" O.C. MAX INTERIOR NON LOAD-BEARING WALLS), TYP (U.O.N.) INDICATES (2) 2x6 @ 16" O.C. CONVENTIONAL STUD WALL, U.O.N. INDICATES D.J. D.J. INDICATES LIMITS OF SHEARWALL (FOR SCHEDULE SEE SHEET SP3) INDICATES BEAM / HEADER PER PLAN INDICATES VERTICAL SUPPORT W/ INDICATED NUMBER OF SPF JACKS REQ'D. E.N. WHERE SUPPORT IS LOCATED WITHIN A SHEARWALL INDICATES "LSTO" EACH SIDE OF HIP TO RAFTER LEDGER AT UPPER END OF HIP INDICATES (2) 2x4 ABY TO (3) 2x4 BLW W/ "CMSTSI6" YERT STRAP W/ (19) 10d COMMON EA END (38 NAILS TOTAL)

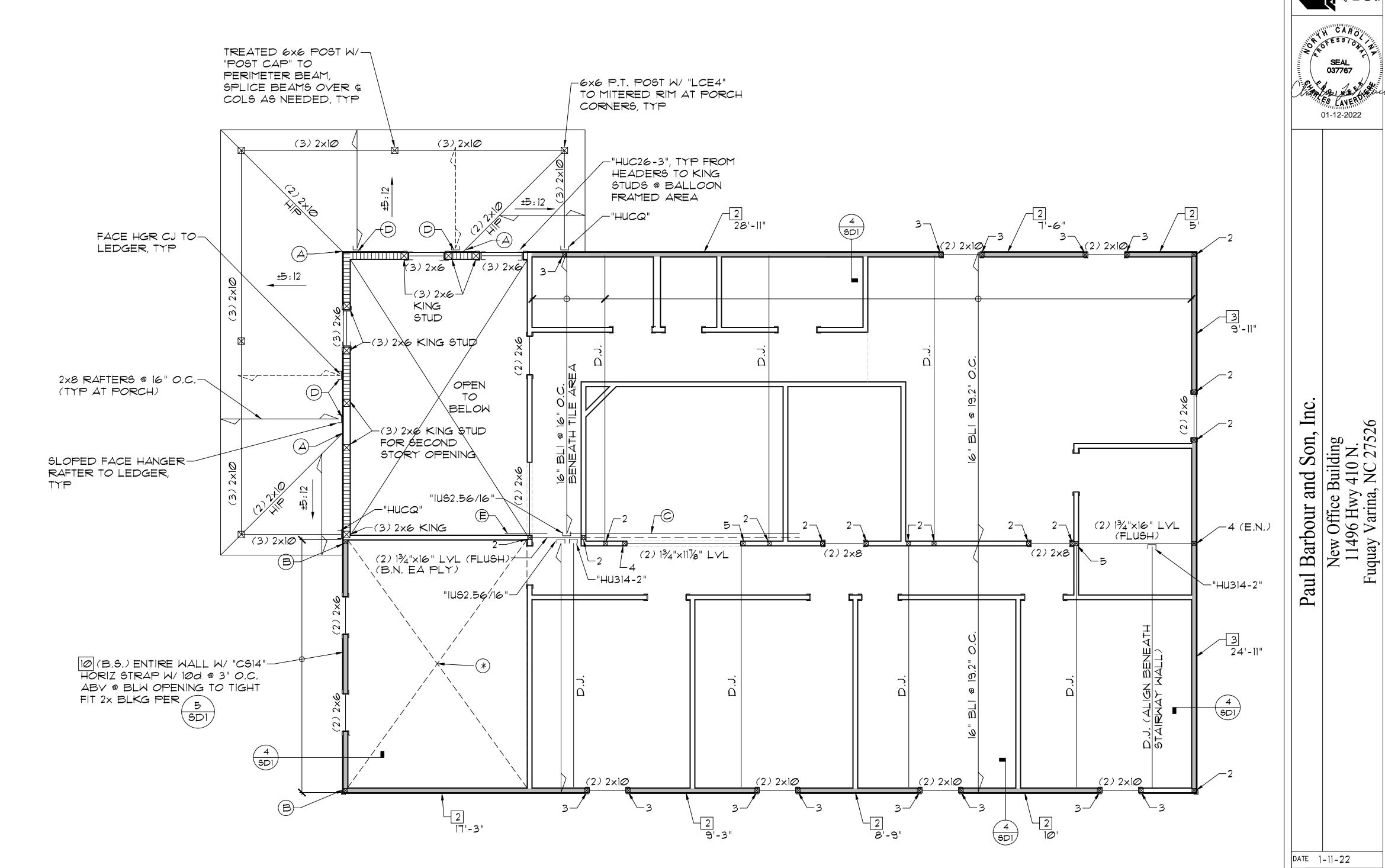
INDICATES CONTINUOUS "CSI4" HORIZONTAL STRAP W/ (II) IØD COMMON
TO UNDERSIDE OF FLUSH BM & IØD COMMON AT 3" O.C. TO UNDERSIDE
OF 12 BAYS OF TIGHT FIT FULL DEPTH I-JOIST, LSL, OR LYL BLK'G
BETWEEN FLOOR JOISTS (B.N. BLK'G)

INDICATES 2x LEDGER W/ (2) 1/4" + x 41/2" LG SIMPSON SDS WOOD
SCREWS @ 16" O.C. MAX TO & STUDS, SIMPSON "H2A" (HORIZ) @ 48"
O.C. MAX RAFTER TO BALLOON FRAMED STUDS

INDICATES "CS14" HORIZONTAL STRAP TOP OF T.FES TO UNDERSIDE OF FLUSH BEAM W/(11) 100 COMMON EA END OF STRAP (PRE-INSTALL STRAP TO T.FES PRIOR TO BEAM PLACEMENT).



INDICATES BLOCKED DIAPHRAGM W/ 2x BLK'G AT ALL UNSUPPORTED SHEATHING PANEL EDGES, B.N. 10d @ 4" O.C., E.N. 10d @ 6", F.N. 10d @ 12" (U.O.N.), ALTERNATE: #8 x2" COARSE THREADED YELLOW ZINC FLATHEAD WOOD SCREWS MAY BE USED IN-LIEU OF 10d COMMONS (ER-5023)



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

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SECOND FLOOR AND LOW ROOF FRAMING PLAN

ROOF FRAMING NOTES:

- I. ROOF SHEATHING IS TO BE 1/6" OSB (24/16) B.N. & E.N. 8d @ 6", F.N. 8d @ 12" U.O.N. OR CODE-APPROVED ALTERNATIVE.
- 2. (15) 16d EACH SIDE OF TOP PLATE SPLICES, TYP U.O.N.
- 3. TRUSSES TO BE TIED TO TOP PLATES USING AN "H2.5A" CLIP AT EACH TRUSS END.
- 4. ATTIC VENTILATION BY OTHERS.
- 5. VERIFY ALL DIMENSIONS WITH FLOOR PLAN (BY OTHERS) PRIOR TO WORK
- 6. ALL GABLE WALLS ARE TO BE CONTINUOUSLY SHEATHED AS 1 MIN.
- 1. FOR ADDITIONAL NOTES, SEE "SP" SHEETS.

LEGEND:

INDICATES ROOF TRUSSES BY OTHERS

INDICATES ATTIC FLOOR FRAMING PER PLAN

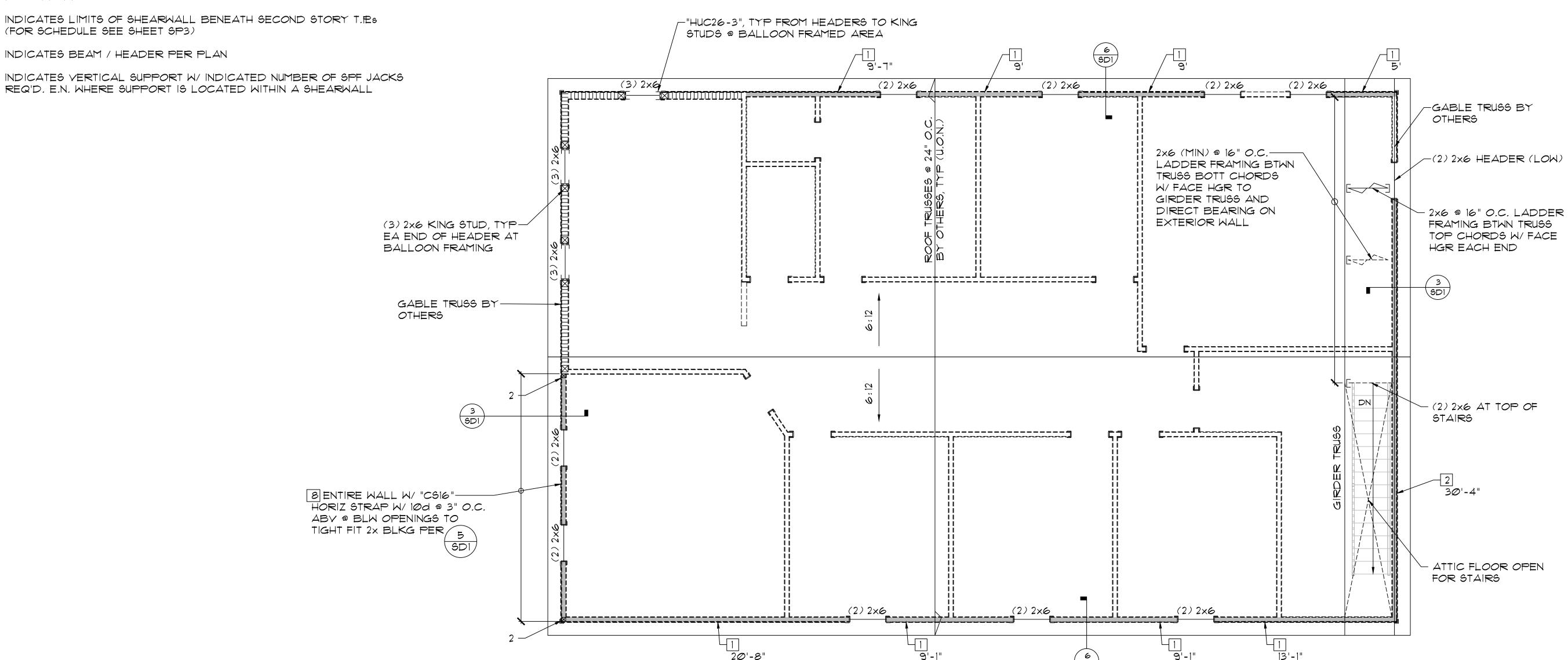
INDICATES WALLS BENEATH ROOF LEVEL - 2×6 @ 16" O.C. OR (2) 2×4 @ 12" O.C. SPF STUDS AT ALL EXTERIOR WALLS (2×4 @ 24" O.C. MAX INTERIOR NON LOAD-BEARING WALLS), TYP (U.O.N.)

INDICATES (2) 2×6 @ 16" O.C. BALLOON FRAMED STUD WALL BENEATH ROOF LEVEL

INDICATES LIMITS OF SHEARWALL BENEATH SECOND STORY T.ES (FOR SCHEDULE SEE SHEET SP3)

INDICATES BEAM / HEADER PER PLAN

INDICATES VERTICAL SUPPORT W/ INDICATED NUMBER OF SPF JACKS



ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"

REVISIONS BY

STONEWALL STRUCTURAL ENGINEERING 4800 Falls of Neuse Rd, Suite #120 Raleigh, NC 27609 (919)407-8663 stonewalleng.com Lic. # P-0951



Paul Barbour and Sor New Office Building

DATE 1-11-22

SCALE AS SHOWN

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JOB 21-1174

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