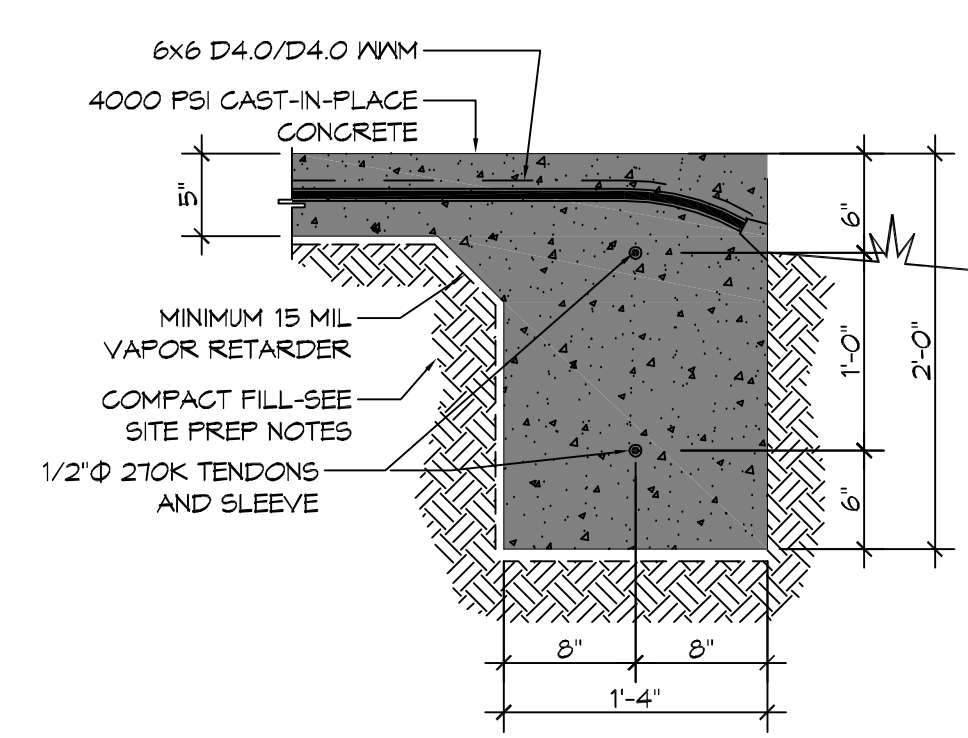
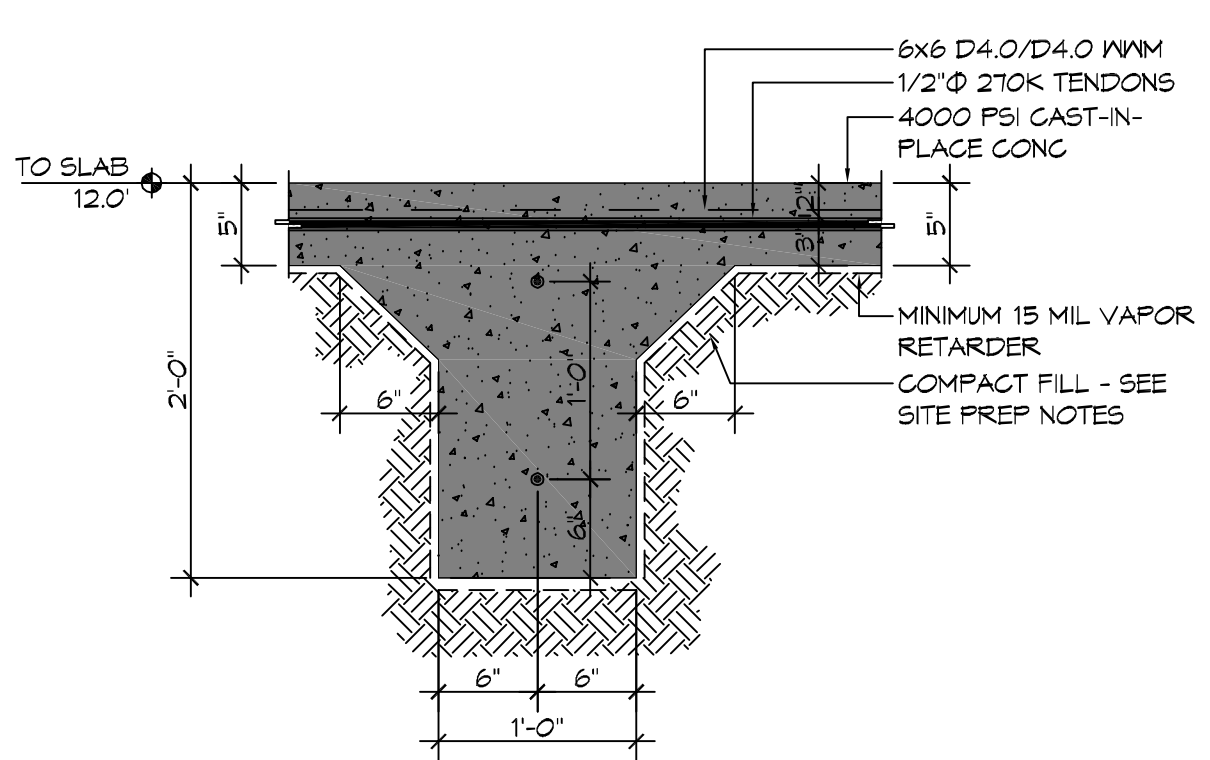


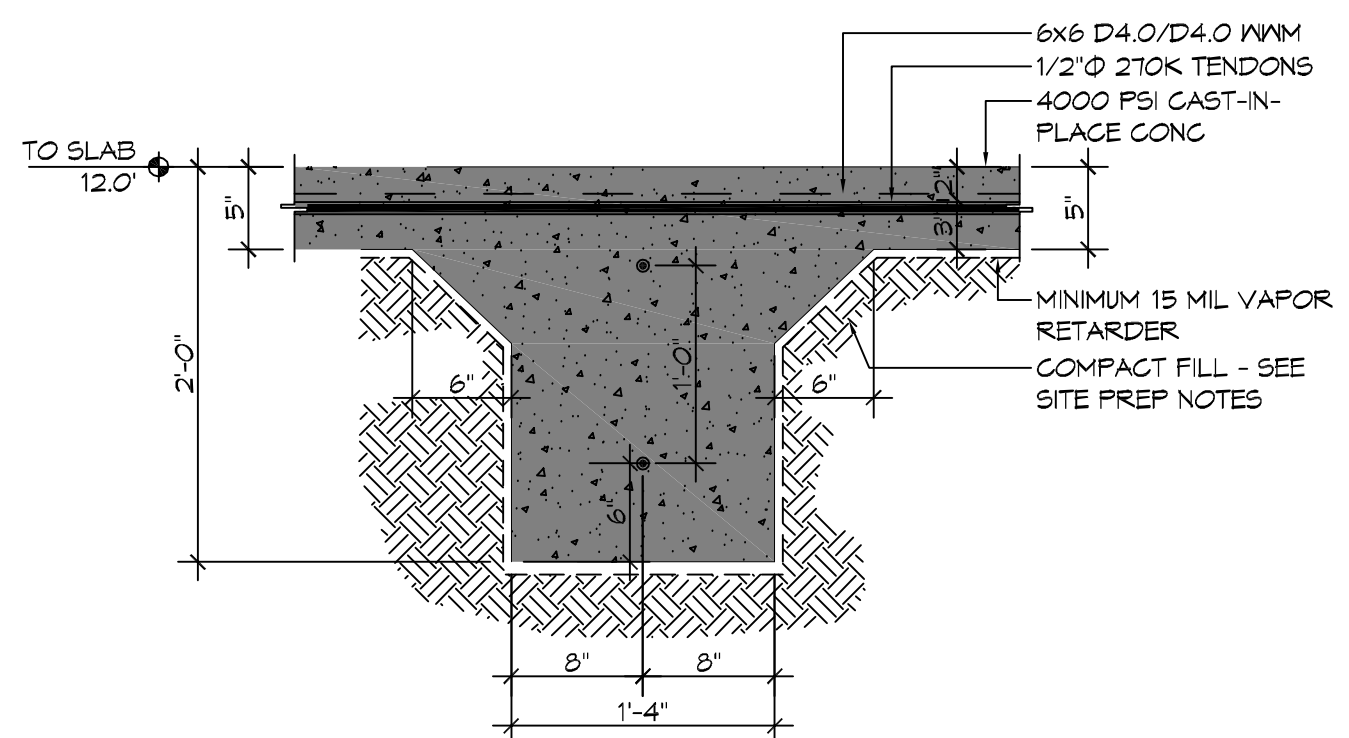
1 CARPORT FOUNDATION PLAN
SCALE: 1/2" = 1'-0"



A EXTERIOR GRADE BEAM FOUNDATION
SCALE: 1" = 1'-0"



B INTERIOR GRADE BEAM FOUNDATION
SCALE: 1" = 1'-0"



C INTERIOR GRADE BEAM FOUNDATION
SCALE: 1" = 1'-0"

GENERAL SITE PREP NOTES

- THIS DESIGN BASED ON INFORMATION PROVIDED BY SOILS ANALYSIS REPORT BY GILLEN GEO TECH, INC. ON APRIL 2, 1986.
- THE GC SHALL REMOVE EXISTING NEAR SURFACE TOPSOIL WITH ORGANICS AND OTHER DELETERIOUS MATERIALS. THE EXPOSED SUBGRADE IN THE BUILDING AND PARKING AREAS SHALL BE PROOF-ROLLED WITH A RUBBER Tired VEHICLE WEIGHING ABOUT 20 TONS. ANY SOILS WHICH ARE OBSERVED TO RUT OR DEFLECT EXCESSIVELY UNDER THE MOVING LOAD SHOULD BE UNDERCUT AND REPLACED WITH COMPACTED STRUCTURAL FILL.
- CONTRACTOR SHALL OVER-EXCAVATE GRADE BEAMS AN ADDITIONAL 8' BELOW THE FINAL ELEVATION OF GRADE BEAM(S). CONTRACTOR SHALL PLACE STRUCTURAL FILL IN LIFTS OF NO MORE THAN 2 INCHES TO FORM BOTTOM OF GRADE BEAM AND SHALL COMPACT FILL TO WITHIN THE RANGE OF ONE (1) PERCENTAGE POINT BELOW TO THREE (3) PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT VALUE. IN-PLACE DENSITY MEASUREMENTS SHALL BE TAKEN & RECORDED TO ASSURE THAT THE ABOVE DEGREE OF COMPACTION IS ACHIEVED. CONTRACTOR SHALL USE A VIBRATORY PLATE COMPACTOR TOOL TO ACHIEVE THE PROPER DEGREE OF COMPACTION.
- THE STRUCTURAL FILL SHALL BE A-4 RIVER SAND OR BETTER AND SHALL BE PLACED IN MAXIMUM LIFTS OF FOUR (4) INCHES OF LOOSE MATERIAL, COMPACTED WITHIN THE RANGE OF ONE (1) PERCENTAGE POINT BELOW TO THREE (3) PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT VALUE. IF WATER MUST BE ADDED, IT SHALL BE UNIFORMLY APPLIED AND THOROUGHLY MIXED INTO THE SOIL BY DISKING OR SCARIFYING. IN-PLACE DENSITY MEASUREMENTS SHALL BE TAKEN & RECORDED TO ASSURE THAT THE ABOVE DEGREE OF COMPACTION IS ACHIEVED. THE COMPACTED STRUCTURAL FILL SHALL EXTEND FIVE (5) FEET BEYOND THE PERIMETER OF THE BUILDING PRIOR TO SLOPING.
- AFTER REMOVING SOILS TO FORM THE GRADE BEAM(S) USE A COMPACTOR TOOL TO COMPRESS THE NATURAL SUBGRADE TO WITHIN THE RANGE OF ONE (1) PERCENTAGE POINT BELOW TO THREE (3) PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT VALUE.
- ALL RUNOFF WATER MUST BE CARRIED AWAY FROM THE SLAB TO PREVENT SATURATION OF THE SUB-BASE.
- ALL TREES WITHIN CLOSE PROXIMITY SHALL BE REMOVED TO PREVENT THE ROOTS FROM EXTENDING UNDER THE SLAB.
- PROVIDE AND MAINTAIN IMMEDIATE SITE DRAINAGE BEFORE, DURING, AND AFTER CONSTRUCTION. PROVIDE GRADING, SWELLS, AND SUMP PUMPS AS MAY BE REQUIRED TO IMMEDIATELY DRAIN ALL RAINWATER FROM THE CONSTRUCTION AREA. FOOTING EXCAVATIONS SHOULD BE OBSERVED AND CONCRETE PLACED AS QUICKLY AS POSSIBLE TO AVOID EXPOSURE OF THE FOOTING BOTTOMS TO WETTING AND DRYING. SURFACE RUNOFF WATER SHOULD BE DRAINED AWAY FROM THE EXCAVATIONS AND NOT BE ALLOWED TO POND PRIOR OR AFTER CONCRETE PLACEMENT. IF IT IS REQUIRED THAT A FOOTING EXCAVATIONS BE LEFT OPEN FOR MORE THAN ONE DAY, THEY SHOULD BE PROTECTED TO REDUCE EVAPORATION OR ENTRY OF MOISTURE.

FOUNDATION NOTES

- THE INTENT OF THIS PLAN IS TO PROVIDE INFORMATION FOR PLACEMENT OF POST TENSION SYSTEM TENDONS, ONLY. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS, LEDGES, BLOCK OUTS, OFFSETS, ETC., SHOWN ON THESE PLANS.
- BEAM SIZES AND LOCATIONS SHALL NOT BE CHANGED WITHOUT APPROVAL OF THE ENGINEER, EXCEPT THAT BEAM DEPTH MAY BE EXTENDED TO REACH UNDISTURBED SOIL.
- ONE LAYER OF POLYETHYLENE VAPOR BARRIER SHALL BE PLACED UNDER ALL CONCRETE. EXTEND VAPOR BARRIER INTO BOTTOM OF GRADE BEAMS. OVERLAP ALL SPLICES WITH MINIMUM OF 12" AND TAPE ALL SPLICES. VAPOR RETARDER TO BE MINIMUM 15 MIL THICKNESS; ASTM E 1745 CLASS A, PERMEANCE LESS THAN 0.01 PERMS, EQUAL TO STEGO INDUSTRIES STEGO WRAP, ECOFIELD-E 15 MIL BY EPRO, OR IRONBAR 15 BY FLATIRON FILMS. PROVIDE APPROPRIATE ACCESSORIES FOR A COMPLETE SYSTEM.
- IT IS RECOMMENDED THAT A CURING COMPOUND BE USED TO CONTROL CONCRETE SHRINKAGE.
- WHERE ADDITIONAL REINFORCEMENT WITH REBAR IS USED IN FOOTINGS, IT SHALL CONFORM TO ASTM A615 AND SHALL BE DETAILED AND ACCESSORIES PROVIDED IN ACCORDANCE WITH THE LATEST A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES. WOVEN WIRE FABRICS SHALL CONFORM TO ASTM A105.
- TENDONS AND BARS SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING PLACING OF CONCRETE.
- ALLOW 8" CENTERED CLEARANCE ON TENDON AXIS BY 36" LENGTH FOR STRESSING EQUIPMENT CLEARANCE.
- CONCRETE SHALL BE WELL CONSOLIDATED ESPECIALLY IN THE VICINITY OF TENDON ANCHORAGES.
- CONCRETE DESIGN IS BASED UPON A CONCRETE MIX HAVING A MINIMUM OF 5.3 BAGS OF CEMENT PER CUBIC YARD AND A MAXIMUM OF 30 GALLONS OF FREE AND ADDED WATER PER CUBIC YARD. SUCH A MIX SHOULD GIVE A MINIMUM COMPRESSION STRENGTH OF 4,000 P.S.I. AT 28 DAYS. CONCRETE DESIGN MIX SHALL BE IN ACCORDANCE WITH THE A.C.I. BUILDING CODE REQUIREMENTS.
- POST-TENSION SYSTEM SHALL BE FURNISHED, PLACED, AND STRESSED BY A FIRM SPECIALIZING IN POST-TENSION SYSTEMS. POST-TENSION SUPPLIER SHALL BE PTI CERTIFIED. POST-TENSION CONTRACTOR SUPERVISOR AND 50% OF THE INSTALLATION PERSONNEL MUST BE CERTIFIED AS HAVING COMPLETED THE PTI LEVEL 1 - FIELD FUNDAMENTALS PROGRAM. ALSO, ALL PERSONNEL INVOLVED IN THE STRESSING OPERATION MUST BE CERTIFIED AS HAVING COMPLETED THE PTI LEVEL 1 - FIELD FUNDAMENTALS PROGRAM.
- ALL PRESTRESSING STEEL SHALL CONSIST OF SEVEN-WIRE STRESS RELIEVED STRAND CONFORMING TO ASTM A-416. MINIMUM ULTIMATE TENSILE STRENGTH SHALL BE 270,000 P.S.I. STRANDS SHALL BE COATED WITH A PERMANENT RUST PREVENTIVE LUBRICANT AND A PLASTIC SHEATH. TENDONS SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING PLACING OF CONCRETE. NO TENDON SHALL BE UNSUPPORTED FOR MORE THAN 5 FEET.
- REINFORCEMENT SHALL HAVE 3" COVER IN GRADE BEAM BOTTOMS, 2" COVER IN BEAM SIDES AND TOPS, 1-1/2" COVER IN SLAB TOPS AND BOTTOMS, UNLESS OTHERWISE SHOWN.
- THE TENDON LOCATION AT THE END OF A GRADE BEAM IS TO BE A MINIMUM OF 6" FROM THE TOP OF THE SLAB TO THE CENTER OF GRAVITY OF THE TENDONS.
- THE FINISH OF THE SLAB SHALL BE A LIGHT BROOM FINISH.
- FORMWORK SHALL BE STRIPPED NO LATER THAN 6 DAYS AFTER PLACEMENT OF CONCRETE.
- TENDONS TO BE STRESSED NO EARLIER THAN 1 DAY AND NOT LATER THAN 14 DAYS AFTER PLACEMENT OF CONCRETE. CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 1500 P.S.I. AT THE TIME OF STRESSING. LOADING OF SLAB PRIOR TO TENSIONING SHALL NOT BE DONE WITHOUT THE APPROVAL AND DIRECTION OF THE SUPERVISING ENGINEER.
- STRESSING:
 - 1/2" TENDON SHALL BE ANCHORED AT 28.9K PER STRAND, BUT SHALL BE INITIALLY STRESSED TO 33.0K PER STRAND.
 - 3/8" TENDON SHALL BE ANCHORED AT 16.1K PER STRAND, BUT SHALL BE INITIALLY STRESSED TO 18.4K PER STRAND.
 - DOUBLE LIVE END TENDONS SHALL BE FULLY STRESSED AT THE INITIAL END. NO ADDITIONAL STRESSING REQUIRED IF PROPER ELONGATION HAS BEEN ACHIEVED.
- TENDON FINISHING: AFTER WRITTEN ACCEPTANCE OF THE TENDON ELONGATION REPORT, TENDONS SHALL BE CUT BEYOND THE FACE OF THE SLAB. TENDONS WITH LESS THAN 3" MAY BE COVERED WITH A PLASTIC TENDON SLEEVE. STRESSING POCKET SHALL BE PROMPTLY GROUTED WITH NON-SHRINK CEMENT BASED GROUT.
- SLAB MUST BE FLOODED TO EXPOSE BIRDBATHS (AREAS THAT HOLD WATER). FLOOD SLAB, THEN ALLOW SLAB TO DRAIN FOR ONE (1) HOUR. MARK ALL BIRDBATHS THAT ARE GREATER THAN 1/8" NICKEL DEPTH. ALL BIRDBATHS MUST BE PATCHED USING THE PATCH BINDER MIX. ALL AREAS THAT NEED PATCHING SHALL BE PRIMED FIRST. ADEQUATE PARTS OF PATCH BINDER, SILICA SAND, AND PORTLAND SHALL BE BLENDED TOGETHER AND APPLIED FOR A RESILIENT PATCH. ALL PATCHES SHALL BLEND INTO EXISTING SLAB. SOME SANDING MAY BE REQUIRED FOR BLENDING. FILL ALL CRACKS WITH APPROVED CRACK FILLER. BAD CRACKS MAY NEED TO BE COATED WITH ACRYLIC.

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REVISIONS	DATE	DESCRIPTION

SEAL:

CRISNE & JENNER

1932 SEAWARD CT.
NO LA., LOUISIANA 70181

JOB NO: 231T DATE: 05-29-18
DRAWN BY: BAYI CHECKED BY:

SHEET TITLE: CARPORT FOUNDATION PLAN

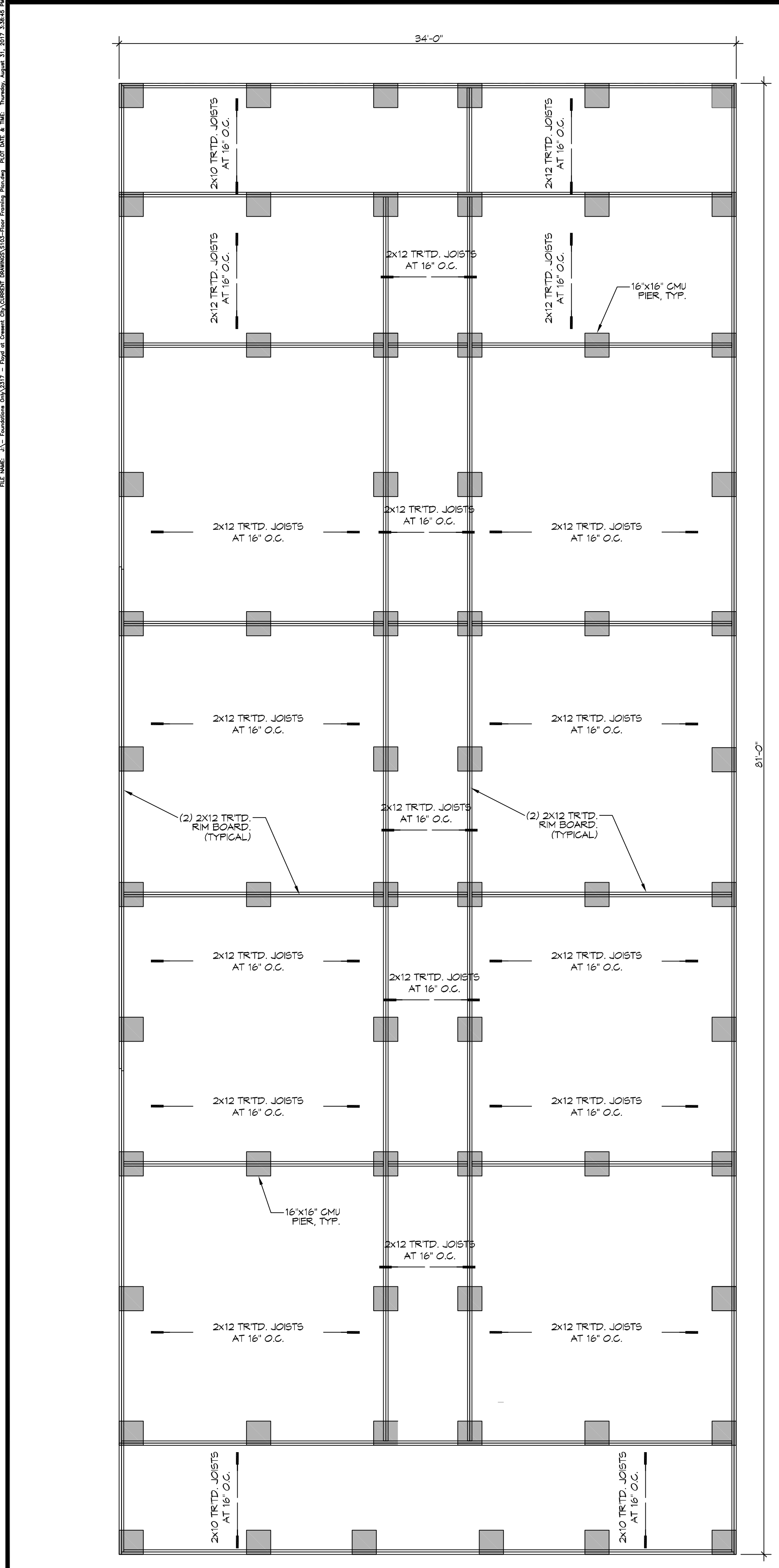
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S102

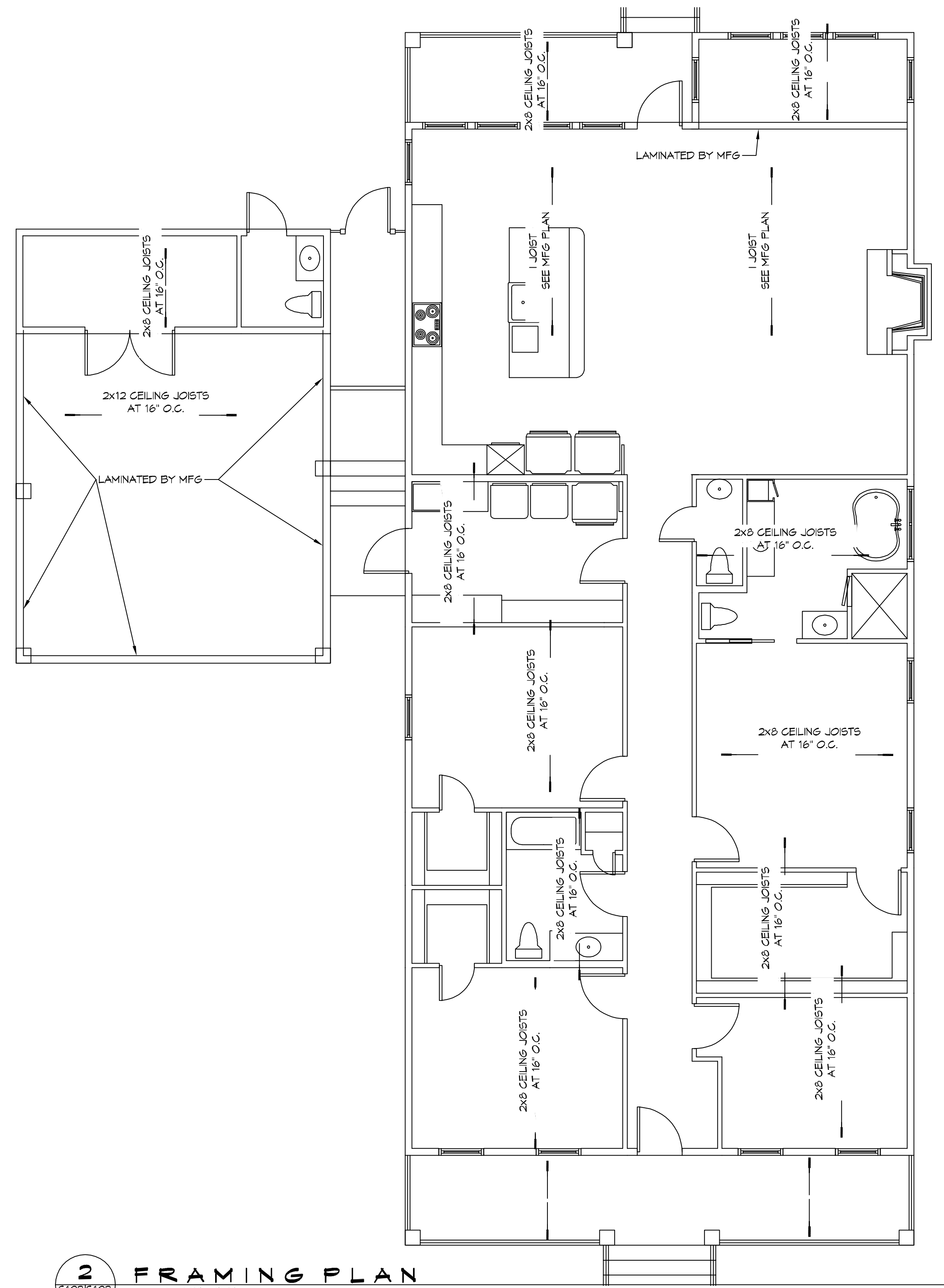
SHEET No: 2 of 4

LEGEND

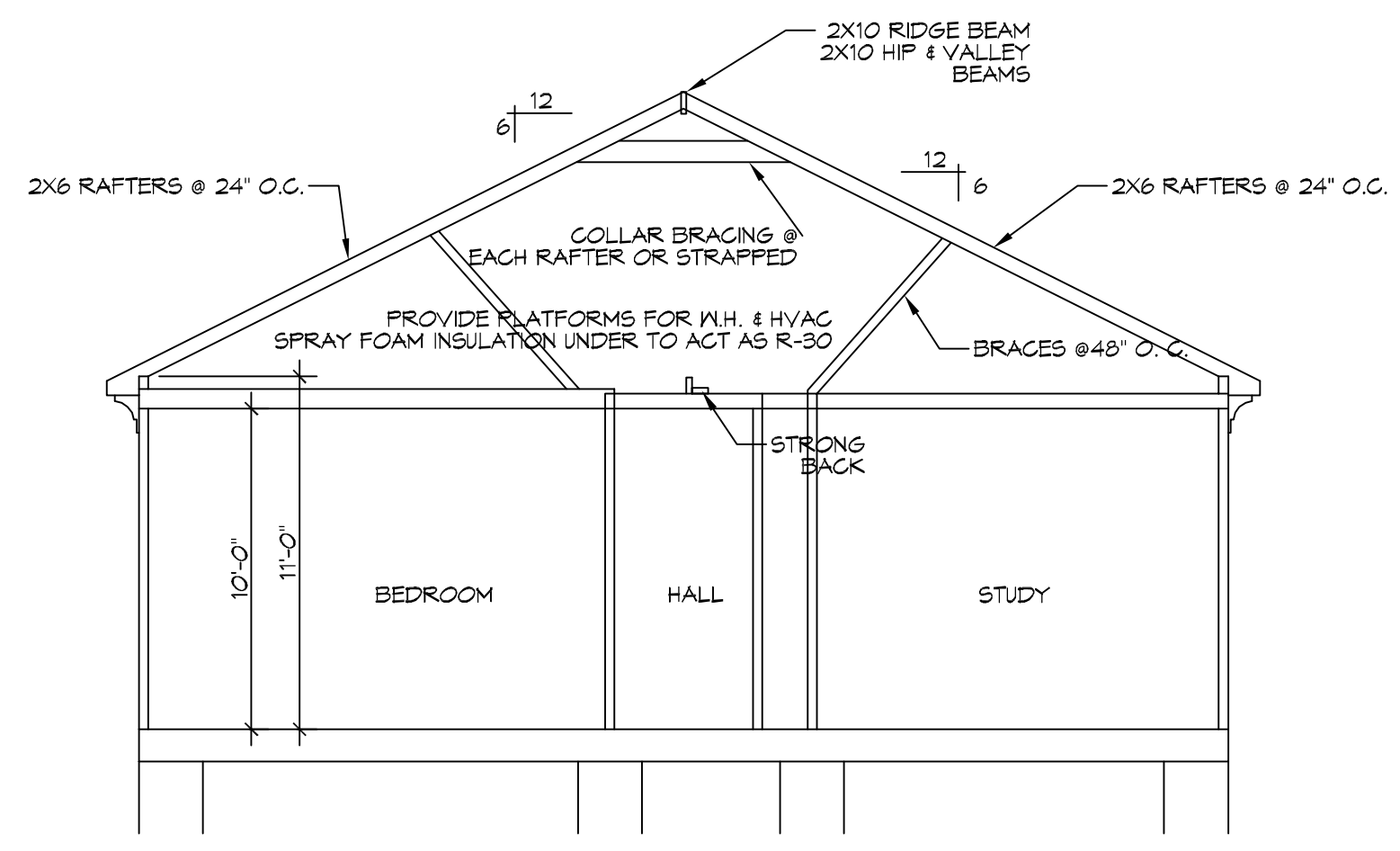
→	SINGLE TENDON
→→	DOUBLE TENDON (STACKED VERTICALLY)



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



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



3 SECTION & FRAMING PLAN
SCALE: 1/4" = 1'-0"

- GENERAL STRUCTURAL NOTES**
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING & STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES & SEQUENCE & TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, BAYS OR TIEDOWNS WHICH MIGHT BE NECESSARY DURING CONSTRUCTION. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
 - IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES & REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
 - SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
 - GOVERNING CODES: INTERNATIONAL RESIDENTIAL CODE 2012 AND ASCE STANDARD T-10.
 - UNLESS OTHERWISE SPECIFICALLY SHOWN DESIGN, FABRICATION AND ERECTION SHALL BE GOVERNED BY THE LATEST REVISIONS OF:
 - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY NFA.
 - U.S. PRODUCT STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD.
 - APA DESIGN/CONSTRUCTION GUIDE - RESIDENTIAL AND COMMERCIAL.
 - MISCELLANEOUS:
 - USE ON LINE OF SOLID BLOCKING OR CROSS BRIDGING AT 4'-0" O.C. MAXIMUM FOR ALL JOIST AND RAFTERS. USE SOLID BLOCKING AT BEARINGS.
 - USE SOLID BLOCKING AT MID-HEIGHT FOR ALL INTERIOR AND EXTERIOR STUDWALLS.
 - PROVIDE BLOCKING IN WALL TO SECURE MOUNTED MILLWORK, SHELVES, FIXTURES, MIRRORS, TOILET ACCESSORIES AND OTHER ITEMS REQUIRING A PERMANENT ATTACHMENT TO THE WALL.
 - USE DOUBLE STUDS UNDER BEAM AND LINTEL BEARING, UNLESS SHOWN OTHERWISE.
 - PLYWOOD SUBFLOORING SHALL BE 3/4" THICK TONGUE AND GROOVE STURDYFLOOR. APPLY CONTINUOUS BEAD OF SLUE ON JOISTS AND GROOVE OF TONGUE-AND-GROOVE PANELS. ATTACH SUBFLOORING TO JOIST USING SCREWS.
 - BEFORE APPLYING FINISH FLOORING, SET SCREWS 1/2" BUT DO NOT FILL. LIGHTLY SAND ANY SURFACE ROUGHNESS, PARTICULARLY AT JOINTS AND AROUND WALLS.
 - WALLS SHALL BE 2x4 STUDS AT 16" O.C., UNLESS NOTED OTHERWISE. WHERE PLUMBING IS REQUIRED IN WALL, WALL SHALL BE 2x6 STUDS AT 16" O.C., UNLESS NOTED OTHERWISE.
 - FLOOR, ATTIC, AND ROOF FRAMING SHALL BE OF SIZES AS INDICATED ON FRAMING PLANS. PROVIDE WOOD CROSS BRIDGING WHERE INDICATED ON DRAWINGS OR WHEN JOIST EXCEEDS 8'. LOCATE (3)2x12S BELOW BEARING WALLS OR FLOOR ABOVE AND/OR AS INDICATED ON FRAMING PLANS. BEAM SHALL BEAR ON ENTIRE WIDTH OF BEARING WALL TOP PLATES. LOCATE THREE STUDS AT BEAM BEARING POINTS BELOW DOUBLE TOP PLATE OR AS SHOWN ON PLAN. PROVIDE WOOD COLLAR BRACES AT EACH RAFTER 24" BELOW CROWN OF ROOF.
 - PLYWOOD ROOFING SHALL BE APA 24/0, 5/8" THICK. NAIL WITH 8D NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. PROVIDE PLY CLIPS AT UNSUPPORTED EDGES BETWEEN ROOF JOISTS.
 - COORDINATE FRAMING WITH HVAC, ELECTRICAL AND PLUMBING REQUIREMENTS.
 - BORED HOLES SHALL BE 2" CLEAR FROM TOP OR BOTTOM EDGE OF JOIST NOT LARGER THAN 1-1/4" AND NOT IN MIDDLE OF SPAN.
 - STRAP ALL PLATES CUT AWAY FOR PLUMBING WITH 1-1/2" WIDE NO. 24 GAUGE GALVANIZED STRAPS 18" LONG, BOTH SIDES OF WALL-SPIKED TO PLATES.
 - PROVIDE STUD POSTS MADE UP OF MULTIPLE STUDS BENEATH END BEARING OF BEAM SHOWN ON FRAMING PLAN. NAIL EACH STUD TO ADJACENT STUD IN THE POST WITH 16d NAILS AT 12" O.C. (ON STUD CENTERLINE) AND WITHIN 3" OF EACH END. CUT STUDS CAREFULLY TO INSURE FULL AND COMPLETE BEARING TOP AND BOTTOM.
 - STAIR STRINGERS SHALL BE 2x12. INSTALL INTERMEDIATE STRINGER FOR STAIRS OVER 30" WIDE.
 - HIP RAFTERS, RIDGE BOARDS AND VALLEY RAFTERS SHALL BE ONE SIZE LARGER THAN RAFTERS, UNLESS NOTED OTHERWISE.
 - PROVIDE TERMITE TREATMENT DURING APPROPRIATE STAGE OF CONSTRUCTION.
 - DOUBLE UP ON FLOOR JOISTS UNDER ALL WALLS.
 - PROVIDE SOLID BLOCKING ON ALL HEADERS.

FOUNDATION & STRUCTURAL DIMENSION LUMBER NOTES

- PROVIDE STRUCTURAL FRAMING MEMBERS OF THE SIZES INDICATED ON THESE STRUCTURAL AND ARCHITECTURAL DRAWINGS, UNLESS INSTRUCTED OTHERWISE. USE PRESSURE TREATED SOUTHERN PINE NO. 2 MINIMUM FOR ALL BEAMS, FLOOR JOIST AND BOTTOM SILL PLATES.
 - BEAMS SHALL BE PRESSURE TREATED CONFORMING TO ANPA UGB3 USING A WATER BASED TREATMENT. ALL BEAMS SHALL BE GLUED AND NAILED.
 - FLOOR JOIST AND BOTTOM SILL PLATE SHALL BE PRESSURE TREATED CONFORMING TO ANPA UGB3.
- USE SOUTHERN PINE NO. 2 MINIMUM FOR ALL REMAINING STRUCTURAL MEMBERS.

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REVISIONS	DATE

DESCRIPTION

SEAL:

CRUZ & SONS ARCHITECTS & ENGINEERS
932 SEAWARD CT.
MOBILE, ALABAMA 36688
JOB No. 2811 DATE: 10/19/11
DRAWN BY: C-CD CHECKED BY: B-AM

SHEET TITLE: **FRAMING PLAN**

DRAWING NUMBER: **S103**

SHEET No: 3 of 4

TABLE S601.7 - UPLIFT CONNECTIONS - 130 MPH WINDS EXP "C"
NFCM 2015 TABLE 3.2

CONNECTION	FRAMING SPACING (INCHES)	ROOF SPAN (FEET)	UPLIFT	LATERAL	SHEAR	NUMBER OF 8d COMMON NAILS OR 10d BOX NAILS IN EACH END OF 1-1/4"X20 GAGE STRAP
ROOF ASSEMBLY TO WALL ASSEMBLY	16" OC	16	401	292	152R	4
WALL ASSEMBLY TO FOUNDATION	16" OC	16	224	214	436	4

TABLE S601.5 - JACK STUD REQ - INT LOADBEARING WALLS
NFCM 2015 TABLE 3.22

HEADER SUPPORTING	HEADER SPAN (FT)	ROOF SPAN (FEET)											
		12 FEET				24 FEET				36 FEET			
		3"	4.5"	5"	6.5"	3"	4.5"	5"	6.5"	3"	4.5"	5"	6"
NUMBER OF JACK STUDS REQUIRED AT EACH END OF THE HEADER													
ONE FLOOR ONLY (CENTER BEARING)	2	1	1	1	1	1	1	1	1	1	1	1	1
	4	1	1	1	1	1	1	1	1	1	1	1	1
	6	1	1	1	1	1	1	1	1	2	1	1	1
	8	1	1	1	1	2	1	1	1	2	2	2	1
	10	1	1	1	1	2	2	1	1	3	2	2	2
	12	1	1	1	1	2	2	2	1	3	2	2	2
	14	2	1	1	1	3	2	2	2	4	3	3	2
	16	2	2	1	1	3	2	2	2	4	3	3	2
TWO FLOORS (CENTER BEARING)	2	1	1	1	1	1	1	1	1	2	1	1	1
	4	1	1	1	1	2	1	1	1	3	2	2	2
	6	2	1	1	1	3	2	2	2	4	3	2	2
	8	2	2	1	1	3	2	2	2	5	3	3	3
	10	2	2	2	1	4	3	3	2	6	4	4	3
	12	3	2	2	2	5	3	3	3	7	5	4	4
	14	3	2	2	2	6	4	4	3	8	5	5	4
	16	4	3	2	2	6	4	4	3	9	6	6	5

HEADER WIDTH - 3" (2-2x), 4.5" (3-2x), 5", 6.5" (4-2x) EACH W/ 1/2" PLYWOOD SPACER BETWEEN

TABLE S601.8 - SILL OR BOTTOM PLATE TO FOUNDATION CONNECTIONS RESISTING UPLIFT LOADS - 130 MPH WIND EXP "C"
NFCM 2015 TABLE 3.2C

BOTTOM PLATE TO FOUNDATION ANCHOR BOLT CONNECTION RESISTING UPLIFT LOADS	FOUNDATION SUPPORTING	MAXIMUM ANCHOR BOLT SPACING (INCHES)	
		8" END ZONES	INTERIOR ZONES
1 - 3 STORIES		25 INCHES ON CENTER	30 INCHES ON CENTER

NOTE: A MINIMUM OF ONE ANCHOR BOLT SHALL BE PROVIDED WITHIN 6 TO 12 INCHES OF EACH END OF EACH PLATE

TABLE S601.9 - SILL OR BOTTOM PLATE TO FOUNDATION CONNECTIONS RESISTING SHEAR LOADS - 130 MPH WIND EXP "C"
NFCM 2015 TABLE 3.2B

BOTTOM PLATE TO FOUNDATION ANCHOR BOLT CONNECTION RESISTING UPLIFT LOADS	FOUNDATION SUPPORTING	MAXIMUM ANCHOR BOLT SPACING (INCHES)	
		1/2" Ø ANCHOR BOLTS	5/8" Ø ANCHOR BOLTS
1 STORY		30 INCHES ON CENTER	48 INCHES ON CENTER

TABLE S601.10 - FULL HEIGHT STUD REQUIREMENT FOR HEADERS OR WINDOW SILL PLATES IN EXTERIOR WALLS EXPOSURE "C"
NFCM 2015 TABLE 3.23C

HEADER SPAN (FEET)	WALL SPACING (INCHES)		
	12" O.C.	16" O.C.	24" O.C.
2	1	1	1
4	2	2	1
6	3	3	2
8	4	3	2

TABLE S601.6 - JACK STUD REQ - EXTERIOR LOADBEARING WALLS
NFCM 2015 TABLE 3.22F

ROOF AND CEILING	HEADER SPAN (FT)	ROOF LIVE LOAD 20 PSF				ROOF LIVE LOAD 30 PSF			
		3"	4.5"	5"	6.5"	3"	4.5"	5"	6.5"
		NUMBER OF JACK STUDS REQUIRED							
	2	1	1	1	1	1	1	1	1
	4	1	1	1	1	1	1	1	1
	6	2	1	1	1	2	1	1	1
	8	2	2	2	1	2	2	2	1
	10	3	2	2	2	3	2	2	2
	12	3	2	2	2	3	2	2	2
	14	4	3	2	2	4	3	2	2
	16	4	3	3	2	4	3	3	2
ROOF, CEILING, AND ONE CENTER BEARING FLOOR	2	1	1	1	1	1	1	1	1
	4	2	1	1	1	2	1	1	1
	6	2	2	2	1	3	2	2	2
	8	3	2	2	2	3	2	2	2
	10	4	3	2	2	4	3	3	2
	12	4	3	3	2	5	3	3	3
	14	5	4	3	3	5	4	3	3
	16	6	4	4	3	6	4	4	3

HEADER WIDTH - 3" (2-2x), 4.5" (3-2x), 5", 6.5" (4-2x) EACH W/ 1/2" PLYWOOD SPACER BETWEEN

TABLE S601.2 - WALL SHEATHING OR CLADDING REQUIREMENT - WIND LOAD EXP "C"

SHEATHING LOCATION	STUD SPACING	MAX NAIL SPACING FOR 8d COMMON NAILS OR 10d BOX NAILS (INCHES OC)	
		E	F
INTERIOR ZONE	12" OC	6	12
	16" OC	6	12
	24" OC	6	6
PERIMETER EDGE ZONE	12" OC	6	12
	16" OC	6	6

155 MPH WIND - EXPOSURE "C" TYPICAL
E = NAIL SPACING AT PANEL EDGES, INCHES.
F = NAIL SPACING AT INTERMEDIATE SUPPORTS IN THE PANEL FIELD, INCHES.

TABLE S601.3 - NAILING SCHEDULE NFCM 2015 TABLE 3.1

DESCRIPTION	NUMBER OF COMMON NAILS	NUMBER OF BOX NAILS	SPACING
HEADER TO HEADER (FACE NAILED)	16d	16d	16" OC EDGES

TABLE S601.4 - BUILDING ENVELOPE REQUIREMENTS

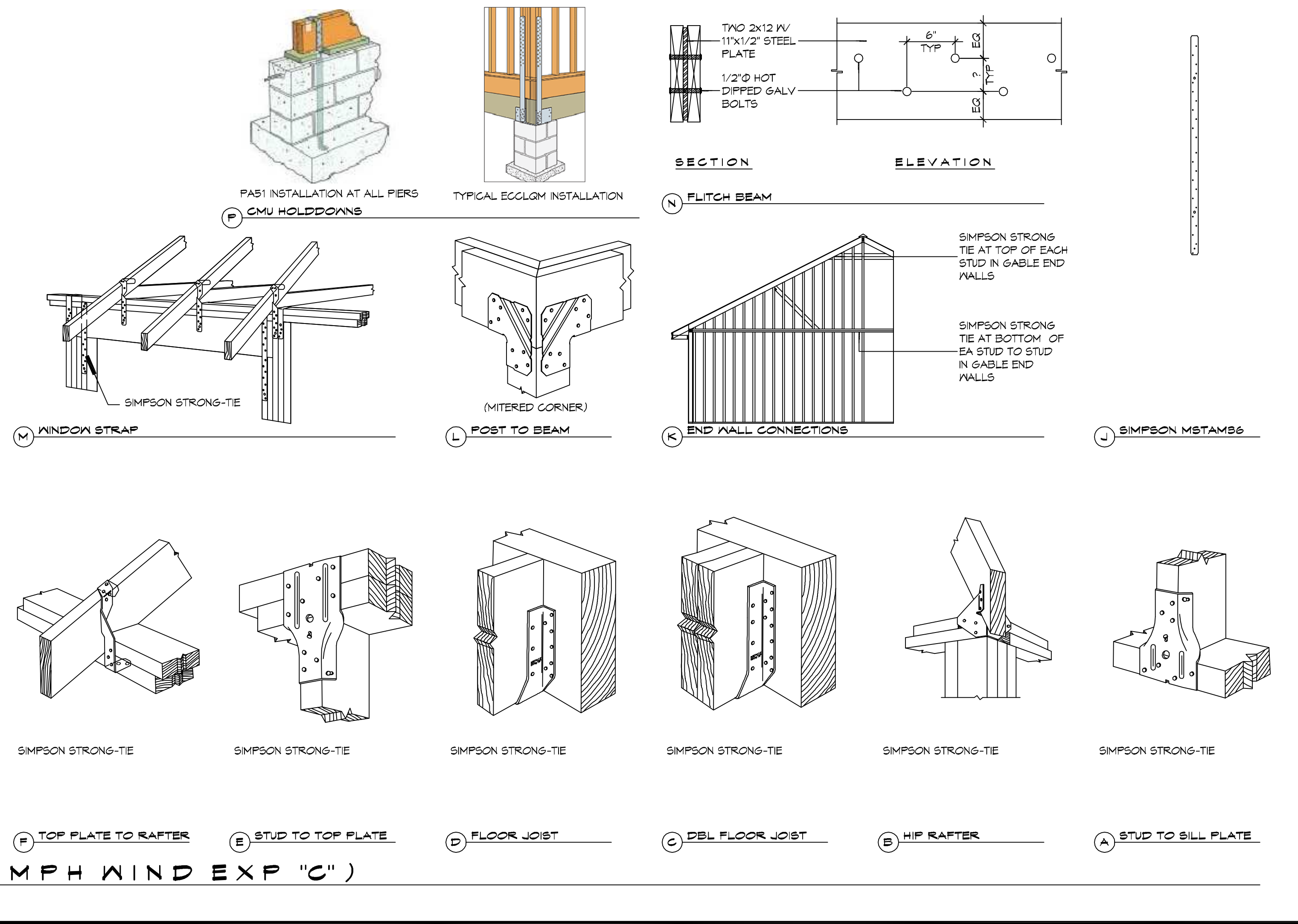
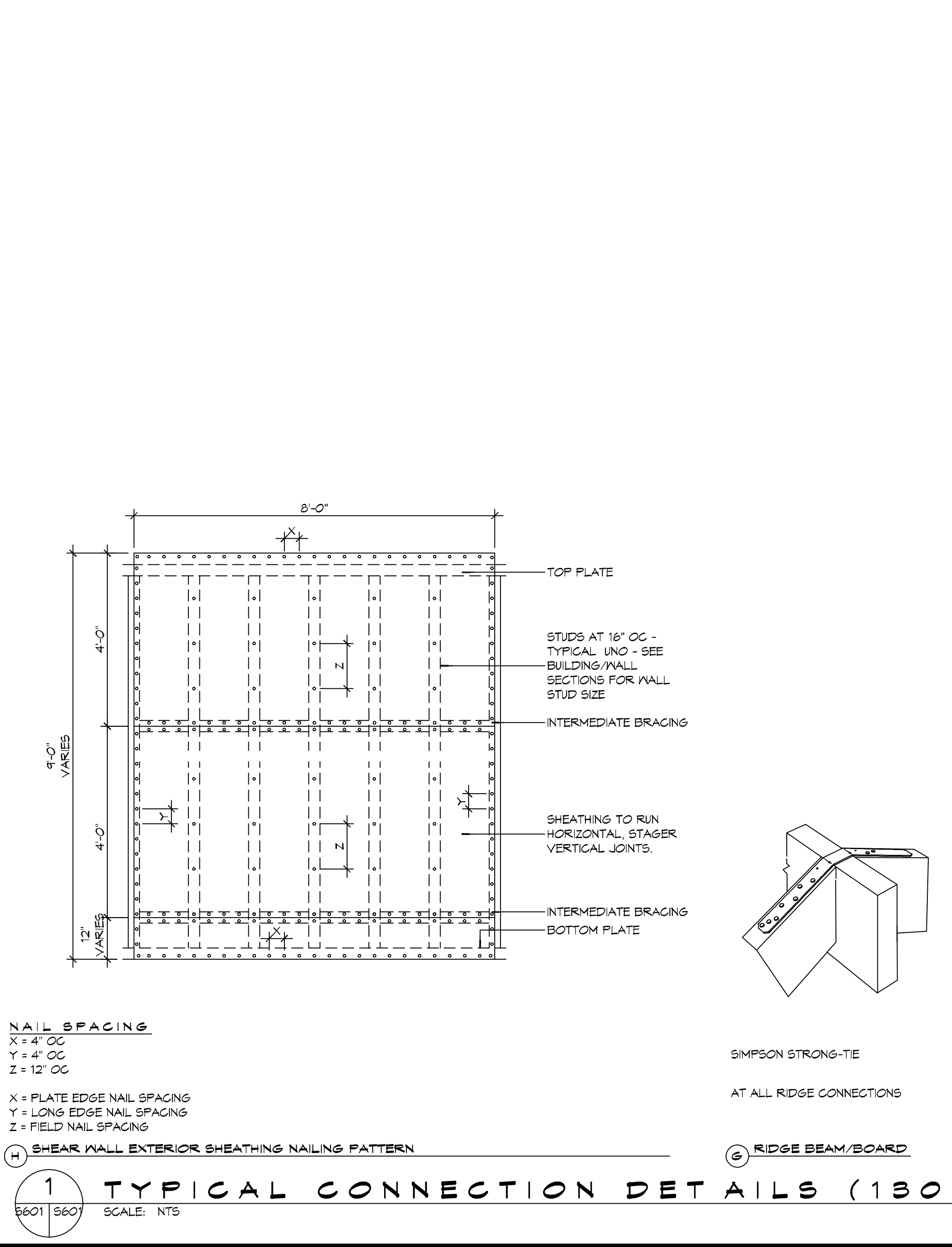
ROOFS	ROOF LIVE LOAD 20 PSF		ROOF LIVE LOAD 30 PSF	
	3"	4.5"	5"	6.5"
ROOFS	INSULATION ENTIRELY ABOVE DECK	U-0.048	R-20.0 c.i.	
	METAL BUILDING	U-0.065	R-19	
	ATTIC AND OTHER	U-0.027	R-38	
WALLS, ABOVE GRADE	MASS	U-0.151	R-5.7 c.i.	
	METAL BUILDING	U-0.113	R-13.0	
	STEEL-FRAMED	U-0.124	R-13.0	
	WOOD-FRAMED AND OTHER	U-0.089	R-13.0	
FLOORS	MASS	U-0.107	R6-3 c.i.	
	STEEL JOIST	U-0.052	R-19.0	
SLAB-ON-GRADE	UN-HEATED	F-0.130	NR	
	OPaque DOORS	SWINGING	U-0.700	NR
	NON-SWINGING	U-1.450	NR	

ROOF UNDERLAYMENT NOTES

- FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17-PERCENT SLOPE), UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE), UNDERLAYMENT SHALL BE TWO LAYERS APPLIED IN THE FOLLOWING MANNER:
 - APPLY A 1/4" STRIP OF UNDERLAYMENT FELT PARALLEL WITH AND STARTING AT THE EAVES, FASTENED SUFFICIENTLY TO HOLD IN PLACE.
 - STARTING AT THE EAVE, APPLY 36" WIDE SHEETS OF UNDERLAYMENT, OVERLAPPING SUCCESSIVE SHEETS 1" INCHES, AND FASTENED SUFFICIENTLY TO HOLD IN PLACE.
- FOR ROOF SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE) OR GREATER, UNDERLAYMENT SHALL BE ONE LAYER APPLIED IN THE FOLLOWING MANNER:
 - UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION, PARALLEL TO AND STARTING FROM THE EAVE AND LAPPED 2 INCHES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. END LAPS SHALL BE OFFSET BY 6 FEET.

SHINGLE APPLICATION & FASTENING NOTES

- ASPHALT STRIP SHINGLES SHALL HAVE A MINIMUM OF SIX FASTENERS PER SHINGLE WHERE THE ROOF IS IN ONE OF THE FOLLOWING CATEGORIES:
 - THE BASIC WIND SPEED IS 110 MPH OR GREATER AND THE EAVE IS 20 FEET OR HIGHER ABOVE GRADE.
 - THE BASIC WIND SPEED IS 120 MPH OR GREATER.
 - SPECIAL WIND ZONES.



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 JOB No: 2817 DATE: CKD CHECKED BY: BAY

TABLE S601.1 - ROOF SHEATHING OR CLADDING REQUIREMENT - WIND LOAD EXP "C"

SHEATHING LOCATION	RAFTER / TRUSS SPACING	MAX NAIL SPACING FOR 8d COMMON NAILS OR 10d BOX NAILS (INCHES OC)	
		E	F
INTERIOR ZONE	12" OC	6	12
	16" OC	6	12
	24" OC	6	6
PERIMETER EDGE ZONE	12" OC	6	6
	16" OC	4	4
	24" OC	3	3

130 MPH WIND - EXPOSURE "C" TYPICAL
 E = NAIL SPACING AT PANEL EDGES, INCHES.
 F = NAIL SPACING AT INTERMEDIATE SUPPORTS IN THE PANEL FIELD, INCHES.

SHEET TITLE: TYPICAL CONNECTION DETAILS, SCHEDULES, AND NOTES
 DRAWING NUMBER: **S104**
 SHEET No: 4 of 4