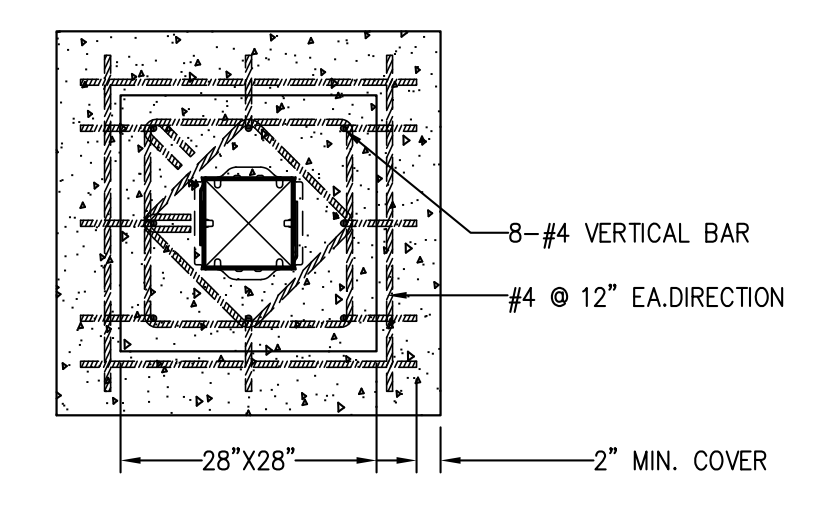
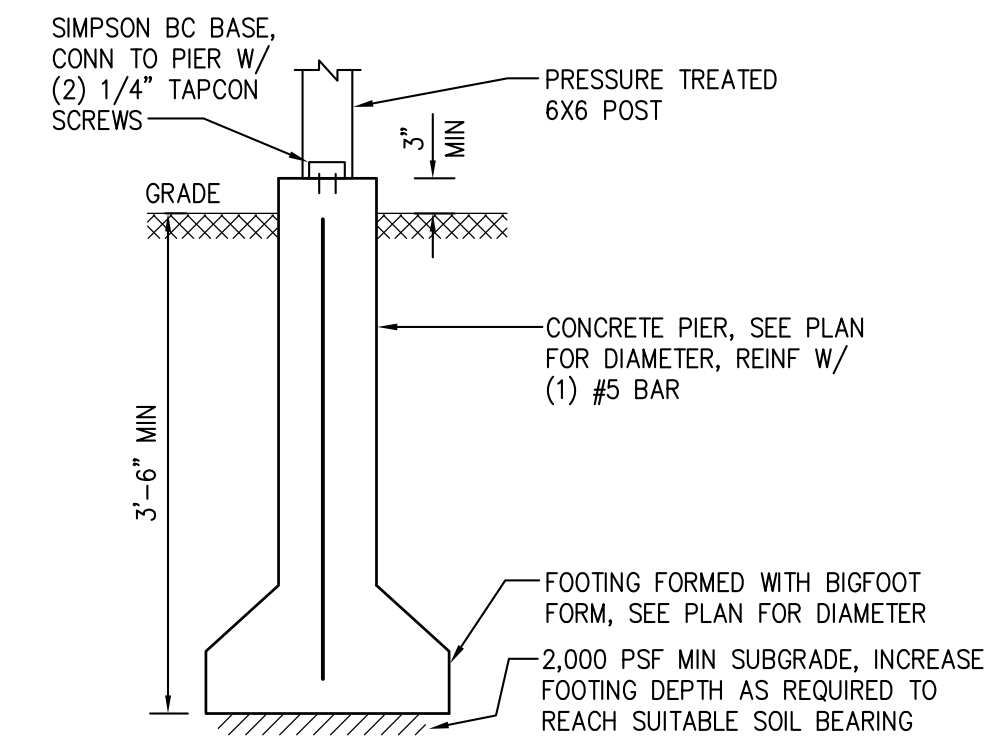


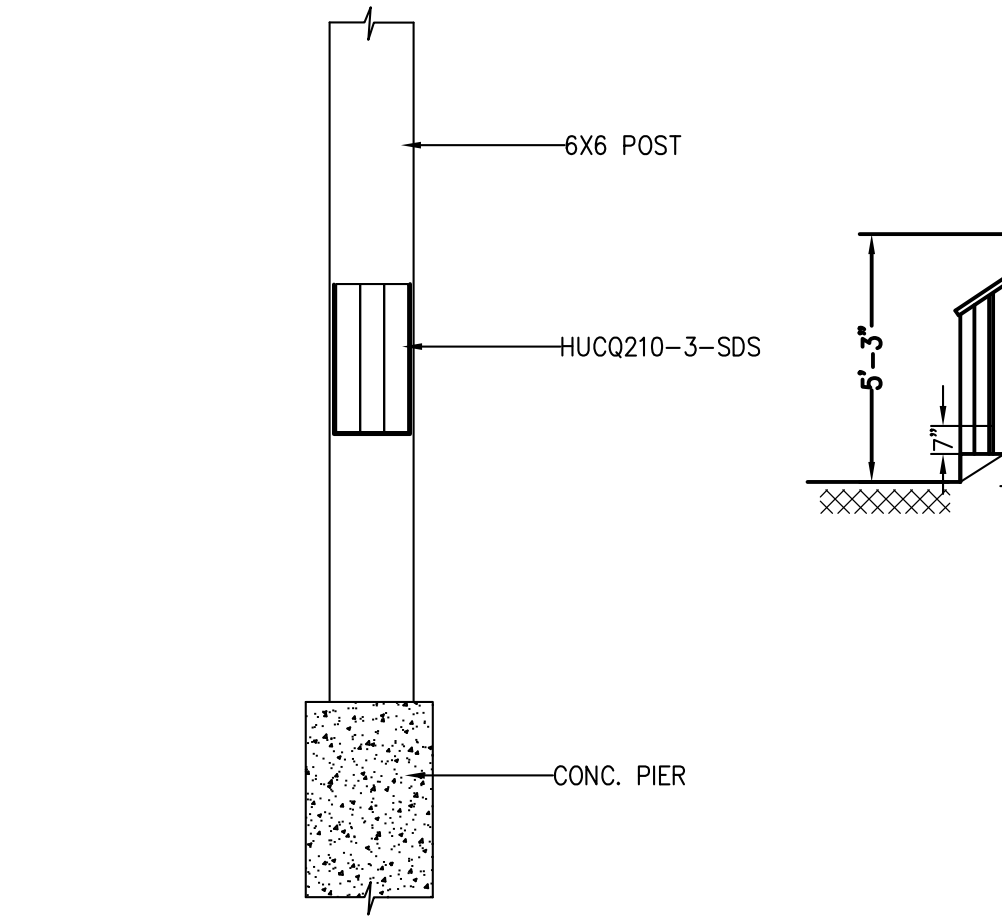
MPB66Z-REINFORCED CONC. FOOTING



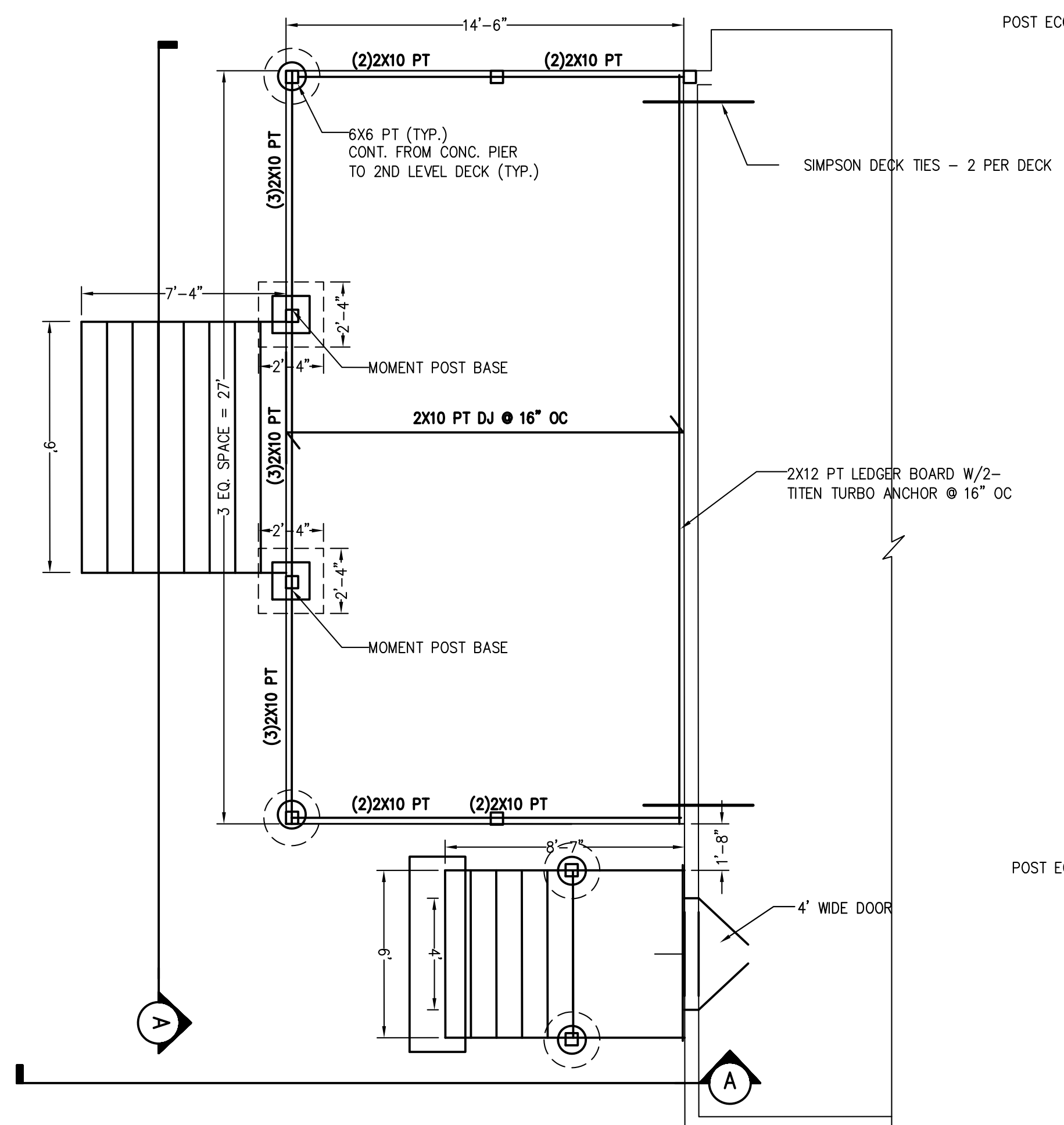
SECTION B-B



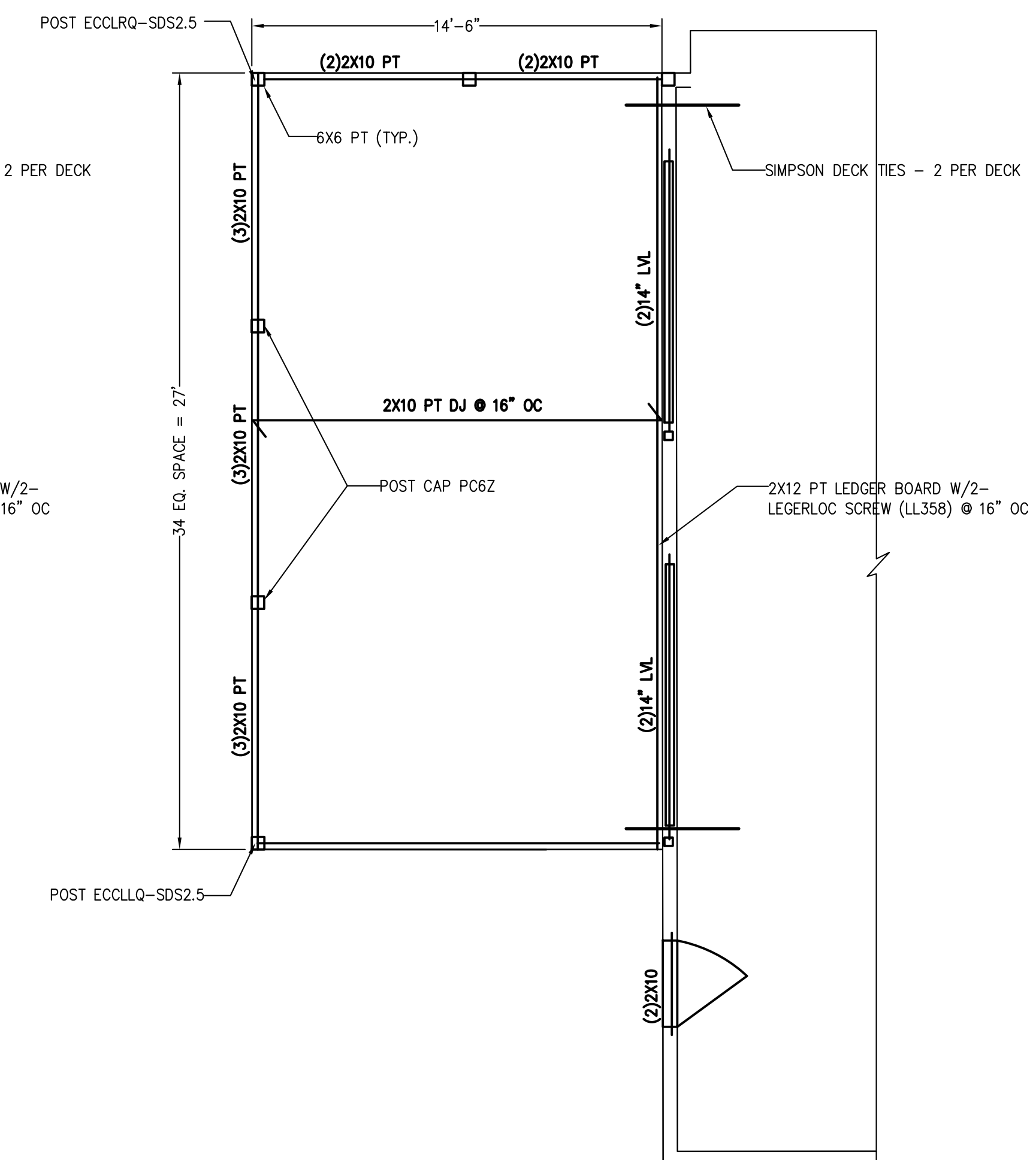
DECK PIER/FOOTING DETAIL



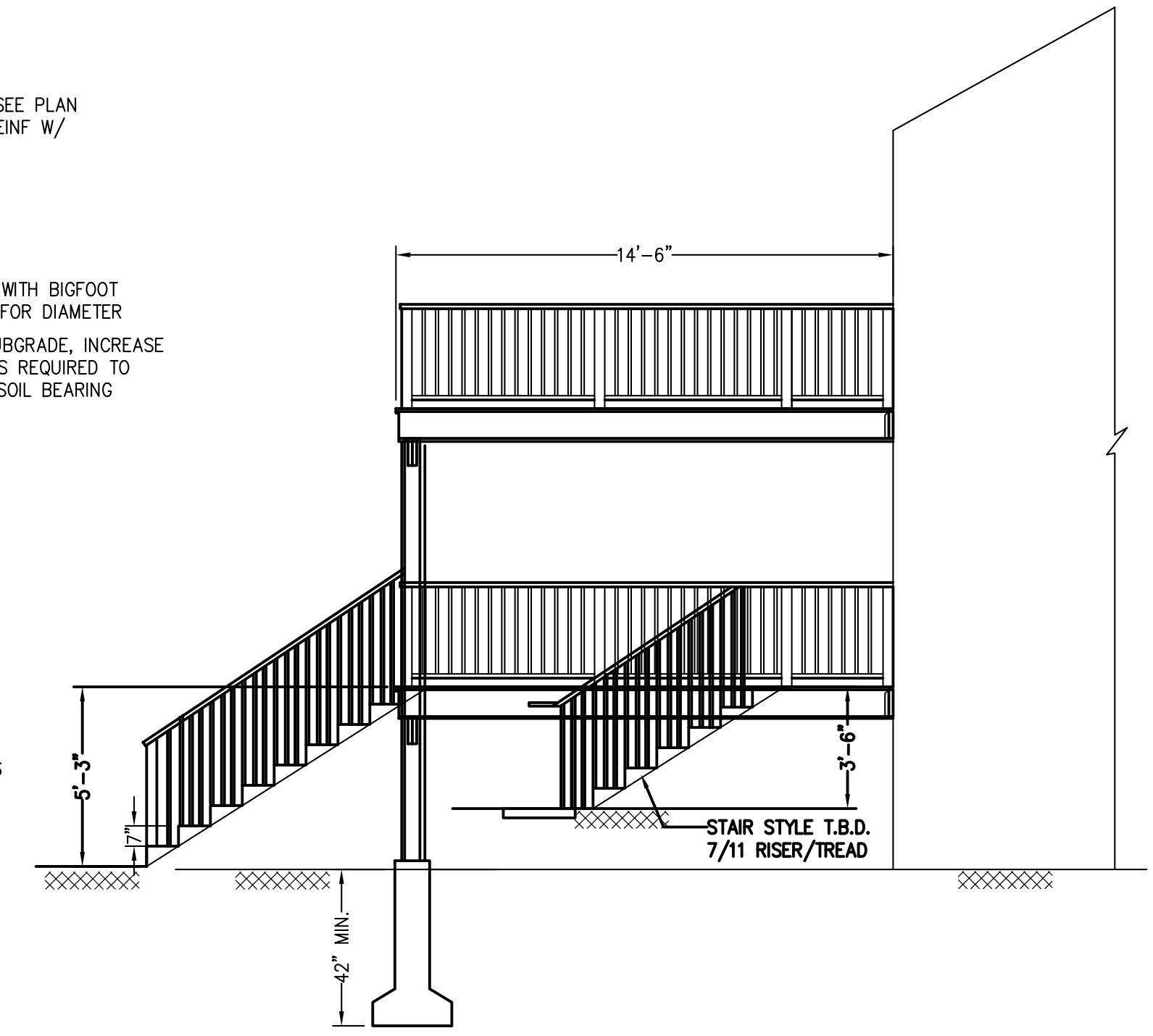
1ST FLOOR BEAM TO POST CONNECTION



1ST FLOOR DECK



2ND FLOOR DECK



SECTION A-A

DECKING PLAN AND DETAILS

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

ADDRESS: 23 SOUNDVIEW DR. WESTPORT, CT

STRUCTURAL NOTES AND LEGENDS

- ALL CONSTRUCTION SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE 2021 INTERNATIONAL RESIDENTIAL BUILDING CODE AS MODIFIED BY "THE 2022 CONNECTICUT SUPPLEMENT" AND SUPERCEDED BY THE CONTRACT DOCUMENTS BY MORE STRINGENT REQUIREMENTS.
- STRUCTURAL DESIGN INFORMATION:  
DESIGN LOADS:  
GROUND SNOW LOAD - 30 PSF;  
DEAD LOAD: 15 PSF FOR ALL FLOORS  
LIVE LOAD: ATTIC & 2ND FLOOR - 30 PSF; 1ST FLOOR & DECK - 40 PSF  
BASIC WIND SPEED - 120 MPH, (IBC 2021)  
WIND EXPOSURE - B (IBC 2021)  
SEISMIC COEFFICIENTS - S<sub>s</sub>=.353, S<sub>1</sub>=.089
- IF ANY UNUSUAL CONDITIONS OR DISCREPANCIES WITH THE DRAWINGS ARE FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND NOT PROCEED WITH AFFECTED WORK UNTIL AUTHORIZED.
- THE BUILDING STRUCTURE IN THE COMPLETED STATE IS INTENDED TO BE STABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING STRUCTURES AND NEW CONSTRUCTION DURING THE COURSE OF CONSTRUCTION UNTIL COMPLETE. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ALL TEMPORARY SHORING AS REQUIRED.
- FOUNDATION SUB-GRADE SHALL BE FREE OF WATER AT THE TIME OF POUR. FOUNDATIONS SHALL NOT BE POURED ON FROZEN SUB-GRADE. BACKFILL AGAINST BASEMENT WALLS SHALL BE CLEAN WELL GRAVEL NOT EXCEEDING 12% PASSING THE NUMBER 200 SIEVE. BACKFILL AND FOUNDATIONS SHALL BE PROTECTED FROM FROST UNTIL BACKFILL LIMITS ARE COMPLETE. FOUNDATION WALL AND SPREAD FOOTINGS SHALL EXTEND TO THE BOTTOM OF ADJACENT EXISTING OR NEW FOOTINGS. IN ALL CASES, THE MINIMUM DEPTH BELOW GRADE SHALL BE 3'-6" OR BELOW AN IMAGINARY LINE WITH A SLOPE OF 1 VERTICAL TO 2 HORIZONTAL DRAWN FROM THE BOTTOM OF ADJACENT FOUNDATIONS TO THE NEW PROPOSED FOOTINGS OR TO UN-DISTURBED SOIL, WHICHEVER PRODUCES THE LARGER DEPTH.
- FOUNDATION WALL AND WALL FOOTING SIZES:  
BASEMENT FOUNDATION WALLS WITH HEIGHTS FROM SLAB ON GRADE TO BOTTOM OF FLOOR FRAMING BETWEEN 5FT AND 9FT SHALL BE 12" THICK MINIMUM ON 22" WIDE X 10" THICK CONTINUOUS WALL FOOTINGS. WALLS SHALL BE REINFORCED WITH (1) #6 TOP AND BOTTOM. ALL WALLS SHALL BE SUPPORTED BY THE FRAMING LEVEL ABOVE.  
CRAWL SPACE WALLS WITH HEIGHTS FROM SLAB ON GRADE TO BOTTOM OF FLOOR FRAMING UP TO 5FT SHALL BE 10" THICK MINIMUM ON 20" WIDE X 10" THICK CONTINUOUS WALL FOOTINGS. WALLS SHALL BE REINFORCED WITH (1) #6 TOP AND BOTTOM.  
FROST WALL SHALL BE 8" THICK MINIMUM ON 18" WIDE X 8" THICK CONTINUOUS WALL FOOTINGS. WALLS SHALL BE REINFORCED WITH (1) #6 TOP AND BOTTOM.
- SLABS-ON-GRADE SHALL BE 5" THICK ON VAPOR BARRIER ON 6" THICK COMPACTED GRANULAR SUBGRADE
- CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH F<sub>c</sub> = 3,500 PSI
- REINFORCING TO HAVE A MINIMUM YIELD STRESS, F<sub>y</sub>=60,000 PSI
- THE CONTRACTOR HAS THE OPTION TO USE SAWN LUMBER OR ENGINEERED LUMBER FRAMING. A MIX OF SYSTEMS SHALL NOT BE PERMITTED, THUS, IT SHALL BE ONE MATERIAL OR THE OTHER ON ANY GIVEN FLOOR.
- ALL FRAMING LUMBER TO BE DOUGLAS FIR (N) NO. 2 OR BETTER, F<sub>b</sub> = 825 PSI, UNLESS OTHERWISE NOTED AS PRESSURE TREATED. FRAMING LUMBER INCLUDES JOISTS, RAFTERS, AND SOLID POSTS.
- UNLESS OTHERWISE NOTED, WALL STUDS AND PLATES TO BE DOUGLAS-FIR STUD GRADE OR BETTER, KILN-DRIED. PLATES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
- ALL PRESSURE TREATED (PT AS INDICATED IN PLAN) LUMBER TO BE SYP NO. 2 OR BETTER, F<sub>b</sub>=1,350 PSI.
- WHERE SPECIFIED ON THE DRAWINGS, MICROLAM LVL'S, LSL'S AND PSL'S SHALL BE THAT AS MANUFACTURED BY TRUSJOIST OR APPROVED EQUAL.
- WHERE SPECIFIED ON THE DRAWINGS, ENGINEERED JOISTS TO BE TJI/PRO BY TRUSJOIST OR APPROVED EQUAL. LSL RIM BOARD SHALL BE USED THROUGHOUT WHERE TJI/PRO JOISTS ARE SPECIFIED.
- THE CONTRACTOR SHALL INSTALL ENGINEERED LUMBER FLOOR AND R<sub>g</sub>+xmiCo<sub>0</sub>??=aA<sup>2</sup>00F SYSTEMS IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS INCLUDING BUT NOT LIMITED TO BRIDGING, RIM JOISTS, AND NAILING OF BUILT UP MEMBERS. COMPREHENSIVE LITERATURE IS AVAILABLE BY THE MANUFACTURER, TRUSJOIST, 1-800-628-3997.
- ALL BEARING POSTS SHALL BE CONTINUOUSLY SUPPORTED THROUGH TO THE FOUNDATION. USE SAWN LUMBER SQUASH BLOCKS WITH GRAIN ORIENTED PARALLEL TO LOAD IN NEW JOIST SPACES AND LVL BLOCKS IN EXISTING STRUCTURE JOIST SPACE. SQUASH BLOCKS OR SQUASH BLOCKS IN COMBINATION WITH ADJACENT FRAMING SHALL FORM A WIDTH AND DEPTH TO A MINIMUM SIZE OF THE SUPPORTED POST ABOVE.
- BEARING POSTS INDICATED IN PLAN SHALL BE (3) PLIES OF THE STUDS OF THE WALL THICKNESS SHOWN ON THE DRAWINGS FOR SUPPORTS SUPPORTING THE ATTIC AND ROOF FRAMING. ALL POSTS SUPPORTING LOADS OF THE SECOND FLOOR, ATTIC AND ROOF LEVEL SHALL BE (4) PLIES. ALL PLIES SHALL BE NAILED TO TOGETHER ADJACENT PLY WITH 8D NAILS @ 6" OC
- DOUBLE WALL PLATES SHALL BE USED ON TOP OF BEARING WALLS UNLESS OTHERWISE NOTED IN PLAN. USE SINGLE PLATES ON FLOORS. ALL PLATE JOINTS SHALL BE STAGGERED AND SHALL BE TERMINATED AT STUDS. PLATES TO BE NAILED TOGETHER WITH A MINIMUM OF 12D COMMON NAILS @ 8" OC, STAGGERED.
- ALL FLOOR FRAMING SHALL HAVE STEEL STRAP BRIDGING OR SOLID BLOCKING LINES LOCATED 8'-0" MAXIMUM.
- BOLTS SHALL BE A MINIMUM OF 5/8" DIAM. WITH 7" EMBEDMENT INTO FOUNDATION. ANCHOR BOLTS SHOULD BE INSTALLED WITH 3X3X1/4 PLATE WASHER.
- ALL FLOOR FRAMING SHALL HAVE STEEL STRAP BRIDGING OR SOLID BLOCKING LINES LOCATED 8'-0" MAXIMUM.
- UNLESS OTHERWISE NOTED, INSTALL DOUBLE JOISTS UNDER PARTITIONS RUNNING PARALLEL TO THE SPAN, EITHER IN NEW OR EXISTING FLOORS.
- FOR CONNECTION DETAILS NOT INDICATED OR IF UNUSUAL FIELD CONDITIONS ARE FOUND, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST IN WRITING QUESTIONS REGARDING THESE CONDITIONS TO THE ENGINEER FOR REVIEW.
- EXTERIOR WALLS SHALL BE 2X6 @ 16" O.C. UNLESS OTHERWISE NOTED IN PLAN. INTERIOR BEARING WALLS SHALL BE 2X4 @ 16" OC AND BLOCKED MID-HEIGHT FROM THE SECOND FLOOR FRAMING DOWN. INTERIOR BEARING WALLS ARE NOTED IN PLAN.
- SPECIAL HEADERS ARE INDICATED IN PLAN WHERE REQUIRED. AT OTHER LOCATIONS, THE CONTRACTOR SHALL SIZE APPROPRIATE HEADER USING THE ATTACHED HEADER TABLES.
- LOAD-BEARING HEADERS ARE NOT REQUIRED IN INTERIOR AND EXTERIOR NONBEARING WALLS. A SINGLE 2"x4" NOMINAL MEMBER MAY BE USED AS A HEADER IN INTERIOR OR EXTERIOR NON-BEARING WALLS FOR OPENINGS UP TO 8 FEET IN WIDTH IF THE VERTICAL DISTANCE TO THE PARALLEL NAILING SURFACE ABOVE IS NOT MORE THAN 24 INCHES. FOR SUCH NON-BEARING HEADERS, NO CRIPPLES OR BLOCKING ARE REQUIRED ABOVE THE HEADER. FOR SPANS GREATER THAN 8 FEET, THE FOLLOWING SHALL BE USED FOR NON-BEARING WALLS AND PARTITIONS: (2)-2X8 FOR SPANS UP TO 10 FEET, (2)-2X10 FOR SPANS BETWEEN 10 AND 12 FEET AND (2)-2X12 FOR SPANS BETWEEN 12 AND 16 FEET.
- ROOF SHEATHING FOR SLOPED ROOFS: APA RATED 15/32" CD-X WITH UNBLOCKED DIAPHRAGM CONSTRUCTION, PLIES TO RUN PERPENDICULAR TO ROOF FRAMING MEMBERS WITH STAGGERED JOINTS.
- FLOOR SHEATHING TO BE APA RATED 3/4" CD-X WITH STAGGERED JOINTS SCREWED AND GLUED TO FLOOR JOISTS. RUN PLIES PERPENDICULAR TO FLOOR JOISTS.
- WALL SHEATHING: APA RATED 15/32 CD-X, PLIES TO RUN PERPENDICULAR TO WALL FRAMING. USE 3" GALVANIZED NAILS @ 6" OC INTO BOTTOM PLATE.
- ROOF AND WALL NAILING: UNBLOCKED: 10D COMMON WIRE @ 6" O.C. AT ALL BOUNDARY PANEL EDGES UNLESS OTHERWISE NOTED ON THE ROOF PLAN AT A GREATER SPACING AND 12" O.C. ELSEWHERE.
- FLOOR NAILING: 10D COMMON WIRE @ 6" O.C. AT BOUNDARY PANEL EDGES AND 12" O.C. ELSEWHERE.
- THE WOOD SOLE PLATE AT CRAWL SPACE EXTERIOR WALLS, FROST WALLS AND INTERIOR HAUNCHED FOOTINGS SHALL BE ANCHORED TO THE FOUNDATION WITH ANCHOR BOLTS SPACED AT 4FT MAX ON CENTER. AT BASEMENT WALLS WOOD SOLE PLATE ANCHOR BOLTS SHALL BE SPACED 2'-6" MAX OC AND EACH JOIST (BLOCKING WHERE JOISTS RUN PARALLEL TO WALL) CONNECTED TO SILL WITH SIMPSON A23 CLIPS. ANCHOR BOLTS SHALL BE LOCATED WITHIN 12 INCHES FROM ENDS OF EACH PLATE SECTION. BOLTS SHALL BE A MINIMUM OF 5/8" DIAM. WITH 7" EMBEDMENT INTO FOUNDATION.