PLYWOOD SHEATHING

1. ALL PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH REQUIREMENTS OF "APA-THE ENGINEERED WOOD ASSOCIATION".
2. PLYWOOD PANELS SHALL MEET THE REQUIREMENTS OF THE LATEST EDITION OF VOLUNTARY PRODUCT STANDARD PS1, VOLUNTARY PRODUCT STANDARD PS2, OR APA PRP-108 PERFORMANCE STANDARDS.
3. ALL ROOF SHEATHING SHALL BE 19/32" THICK, 40/20, EXPOSURE 1, APA RATED SHEATHING, UNO. SEE SHEATHING SCHEDULE FOR NAILING REQUIREMENTS.
4. ALL FLOOR SHEATHING SHALL BE 23/32" THICK, 48/24, EXPOSURE 1, APA RATED SHEATHING, UNO. SEE SHEATHING SCHEDULE FOR NAILING REQUIREMENTS.
5. ALL WALL SHEATHING SHALL BE 15/32" THICK, 32/16, EXPOSURE 1, APA RATED SHEATHING, UNO. SEE SHEATHING SCHEDULE FOR NAILING REQUIREMENTS.
6. ALL PLYWOOD PANELS SHALL BE INSTALLED WITH THE LONG DIMENSION OF THE PANEL PERPENDICULAR TO THE SUPPORTS AND WITH PANEL CONTINUOUS OVER TWO OR MORE SPANS. STAGGER PANEL ENDS AND EDGES. ALL PANEL EDGES SHALL BUTT ON AND BEAR ON FRAMING MEMBER'S CENTERLINE.
7. NAILS SHALL BE PLACED NOT LESS THAN 3/8" FROM PANEL EDGE. SEE WOOD FRAMING NOTES FOR OTHER NAILING REQUIREMENTS.
8. PROVIDE 2x BLOCKING AT ALL UNSUPPORTED PANEL EDGES.

WOOD FRAMING

1. ALL WOOD FRAMING MATERIAL, INCLUDING PRESSURE TREATED MATERIAL SHALL BE SURFACED DRY AND USED AT 19% MAXIMUM MOISTURE CONTENT. ALL LUMBER SHALL BE VISUALLY GRADED SPRUCE-PINE-FIR NO. 2 GRADE WITH THE ALLOWABLE STRESS CHARACTERISTICS IN ACCORDANCE WITH THE FOLLOWING (ALL UNITS POUNDS PER SQUARE INCH, UNLESS NOTED OTHERWISE) :

LUMBER SIZE	F_b	F_t	F_v	$F_{c(perp)}$	$F_{c(par)}$	E
2" TO 4" THICK	875	450	135	425	1150	1,400,000
5"x5" AND LARGER BEAMS AND STRINGERS	600	300	125	425	425	1,000,000
5"x5" AND LARGER POSTS AND TIMBERS	500	325	125	425	500	1,000,000

2. ALL LAMINATED VENEER LUMBER (LVL) BEAMS SHALL HAVE THE FOLLOWING MINIMUM STRUCTURAL PROPERTIES:

F_b	F_t	F_v	$F_{c(perp)}$	$F_{c(par)}$	E
2600	1555	285	750	2510	2,000,000

3. ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATIONS. ALL WOOD IN CRAWL SPACES CLOSER THAN 6 INCHES TO THE GRADE SHALL BE PRESSURE TREATED. TREATMENT OF CUTS AND NOTCHES SHALL BE IN ACCORDANCE WITH SAME SPECIFICATION.
4. THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOADBEARING APPLICATIONS. THE LENGTH OF SPLIT ON THE WIDE FACE OF 2" NOMINAL LOADBEARING FRAMING SHALL BE LIMITED TO LESS THAN HALF OF THE WIDE FACE DIMENSION. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3" AND THICKER LUMBER SHALL BE LIMITED TO HALF OF THE NARROW FACE DIMENSIONS.
5. ALL NAILS SHALL BE "COMMON" TYPE WITH MINIMUM SHANK DIAMETERS AS LISTED:

NAIL TYPE	20d	16d	12d	10d	8d
MIN SHANK	0.192"	0.162"	0.148"	0.148"	0.131"

UNLESS NOTED OTHERWISE, SEE NAILING SCHEDULE FOR REQUIRED NAIL SIZE AND SPACING. NAILS SHALL BE PLACED NO CLOSER THAN 1" FROM EDGE OR END OF LUMBER MEMBER. WHEN UTILIZING POWER DRIVEN NAIL GUNS, CALIBRATION SHALL BE PERFORMED PERIODICALLY IN ORDER TO ENSURE NAILS ARE NOT OVERDRIVEN.

6. PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS WHICH RUN PARALLEL WITH JOISTS AND UNDER ALL CONCENTRATED LOADS FROM FRAMING ABOVE.
7. PROVIDE HEADER BEAMS OF THE SAME SIZE AS JOISTS OR RAFTERS TO FRAME AROUND OPENINGS IN THE PLYWOOD DECK UNLESS OTHERWISE INDICATED.
8. STRUCTURAL STEEL PLATE CONNECTORS SHALL CONFORM TO ASTM A-36 SPECIFICATIONS AND BE 1/4" THICK UNLESS OTHERWISE INDICATED. BOLTS CONNECTING WOOD MEMBERS SHALL BE PER ASTM 1.307 AND BE 3/4" DIAMETER UNO. PROVIDE WASHERS FOR ALL BOLT HEADS AND NUTS IN CONTACT WITH WOOD SURFACES.
9. BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. BOLTED CONNECTIONS SHALL BE SNUGGED TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER WASHERS.
10. PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, HOLD-DOWN ANCHORS AND OTHER ACCESSORIES SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, OR APPROVED EQUAL. INSTALL ALL ACCESSORIES PER THE MANUFACTURER'S REQUIREMENTS.
11. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE HOT DIP GALVANIZED.
12. ALL HOLES AND NOTCHES DRILLED OR CUT INTO WOOD FRAMING SHALL CONFORM TO THE LIMITATIONS OF THE INTERNATIONAL BUILDING CODE.
13. PROVIDE FULL DEPTH (OR METAL) BRIDGING AT MIDSPAN OF ALL JOIST FRAMING AND AT A MAXIMUM SPACING OF 8'-0" O.C. IN BETWEEN.
14. ALL JOISTS, RAFTERS, BEAMS AND TRUSSES FRAMING TO WOOD-FRAMED WALLS SHALL BEAR DIRECTLY OVER WALL STUDS. WOOD BEAMS AND GIRDERS SHALL HAVE NOT LESS THAN 3" END BEARING, U.N.O.
15. USE DOUBLE TOP PLATES AND SINGLE BOTTOM PLATES AT ALL WALLS. AT WALL INTERSECTIONS, ONE TOP PLATE SHALL BE CONTINUOUS OVER WALL JOINTS IN EACH DIRECTION. END JOINTS IN PLATES SHALL BE OFFSET AT LEAST 24" AND PLACED ONLY DIRECTLY AT A WALL STUD. NO SPLICES ARE ALLOWED BETWEEN WALL STUDS. USE PRESSURE TREATED BOTTOM PLATE AT GROUND FLOOR SLAB.
16. ALLOWABLE LINTEL/HEADER SPANS AT NON-LOAD-BEARING OPENINGS ARE AS FOLLOWS (UNLESS NOTED OTHERWISE):

ALLOWABLE HEADER SPAN (NON-LOAD-BEARING)				
HEADER	(2) 2x6	(2) 2x8	(2) 2x10	(2) 2x12
INTERIOR	UP TO 6'-0"	6'-1" TO 8'-0"	8'-1" TO 10'-0"	10'-1" TO 12'-0"
EXTERIOR	UP TO 5'-9"	5'-10" TO 6'-6"	6'-7" TO 7'-6"	7'-7" TO 8'-6"

17. ALL IN-WALL LINTELS/HEADERS AT NON-LOAD-BEARING OPENINGS SHALL BEAR ON JACK STUDS AND BE PROVIDED FULL HEIGHT JAMB STUDS AS FOLLOWS (UNLESS NOTED OTHERWISE):

	MINIMUM NUMBER OF JACK STUDS	MINIMUM NUMBER OF FULL-HEIGHT JAMB (KING) STUDS
ALL EXTERIOR NON-LOAD-BEARING WALLS	1	2
ALL INTERIOR NON-LOAD-BEARING WALLS	1	1

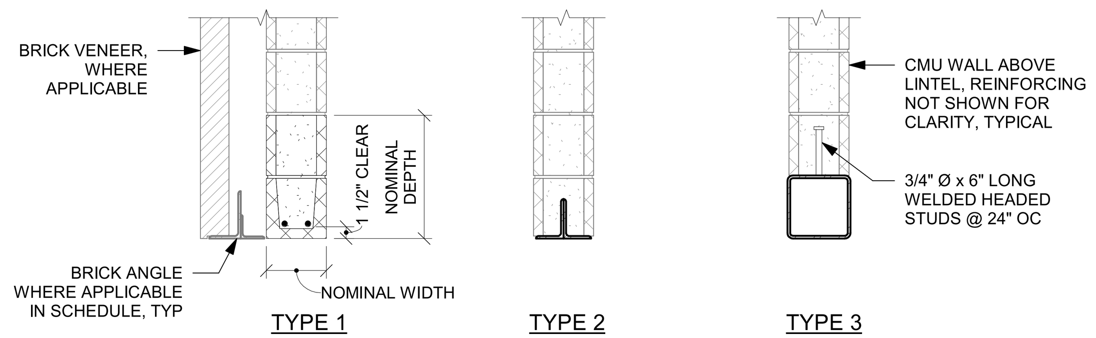
ALL HEADERS BETWEEN CROSS WALLS SHALL BEAR ON TWO FULL HEIGHT STUDS, EACH END.

18. REFER TO PLAN FOR LINTELS/HEADERS IN LOAD-BEARING WALL APPLICATIONS. HEADERS AT LOAD-BEARING OPENINGS NOT OTHERWISE SPECIFIED SHALL BE TWO 1 3/4"x9 1/4" LVLs, WITH A MAXIMUM SPAN OF TEN FEET. REFER TO TYPICAL DETAIL - OPENING IN STUD WALL FRAMING FOR JACK AND JAMB (KING) STUD REQUIREMENTS IN LOAD-BEARING WALLS.

TYPICAL WOOD FASTENER SCHEDULE (U.N.O.)

CONNECTION	FASTENER	NUMBER/SPACING
SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL	16d COMMON	16" OC
JOIST TO BAND JOIST, FACE NAIL	16d COMMON	2" OC
JOIST TO SILL OR GIRDER, TOE NAIL	8d COMMON	4
BRIDGING TO JOIST, TOE NAIL EACH END	8d COMMON	2
LEDGER STRIP	16d COMMON	3 AT EACH JOIST
1X6 OR LESS SUBFLOOR TO EACH JOIST, FACE NAIL	8d COMMON	2
OVER 1X6 SUBFLOOR TO EACH JOIST, FACE NAIL	8d COMMON	3
2-INCH SUBFLOOR TO JOIST OR GIRDER BLIND AND FACE NAIL	16d COMMON	2
TOP OR SOLE PLATE TO STUD, END NAIL	16d COMMON	2
STUD TO SOLE PLATE, TOE NAIL	8d COMMON	4
DOUBLED STUDS, FACE NAIL	16d COMMON	24" OC
DOUBLED TOP PLATES, FACE NAIL	16d COMMON	16" OC
TOP PLATES, LAP AND INTERSECTIONS FACE NAIL	16d COMMON	4
CONTINUOUS HEADER, TWO PIECES	16d COMMON	16" OC ALONG EACH EDGE
CEILING JOISTS TO PLATE, TOE NAIL	8d COMMON	3
CONTINUOUS HEADER TO STUD, TOE NAIL	8d COMMON	3
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	16d COMMON	3
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL	16d COMMON	3
RAFTER TO PLATE, TOE NAIL	8d COMMON	3
1-INCH BRACE TO EACH STUD AND PLATE, FACE NAIL	8d COMMON	2
1X8 OR LESS SHEATHING TO EACH BEARING STUD, FACE NAIL	8d COMMON	2
OVER 1X8 SHEATHING TO EACH BEARING STUD FACE NAIL	8d COMMON	3
BUILT-UP CORNER STUDS	16d COMMON	24" OC
BUILT-UP GIRDERS AND BEAMS, OF THREE MEMBERS	20d COMMON	32" OC AT TOP & BOTTOM AND STAGGERED 2 ENDS & AT EACH SPLICE
2-INCH PLANKS STUDS TO SOLE PLATE, END NAIL	16d COMMON	2 EACH BEARING 2 EACH END
WOOD STRUCTURAL PANELS: SUBFLOOR, ROOF AND WALL SHEATHING	10d COMMON	3" OC EDGES AND 6" OC INTERMEDIATE
WOOD STRUCTURAL PANELS: SINGLE FLOOR SHEATHING	10d COMMON	6" OC EDGES AND 12" OC INTERMEDIATE

NOTES:
1. EACH END OF ALL LINTELS SHALL BEAR ON A MINIMUM OF ONE BLOCK COURSE (1'-4" MIN LONG x 8" MIN HIGH) OF SOLID OR GROUTED SOLID MASONRY, UNLESS NOTED OTHERWISE.
2. PROVIDE 1 1/2" COVER TO BOTTOM BARS IN BOND BEAM LINTELS, TYP UNLESS NOTED OTHERWISE.
3. STEEL ANGLES SHALL BE WELDED TO EACH OTHER OR TO HSS LINTELS AT 12" ON CENTER MAXIMUM TOP AND BOTTOM WITH 1/4" FILLET WELD.
4. AT HSS OR WIDE FLANGE LINTELS, PROVIDE 3/4" Ø x 6" LONG WELDED HEADED STUDS @ 24" OC TO ACCEPT CMU ABOVE. GROUT CELLS WITH HEADED STUDS SOLID.
5. SEE TYPICAL BEAM OR LINTEL TO MASONRY PIER OR WALL DETAILS FOR ADDITIONAL INFORMATION.



TYPE 1 TYPE 2 TYPE 3

STATE OF NEW JERSEY MICHAEL R. MAXWELL No. GE053040 LICENSED PROFESSIONAL ENGINEER

STAHL SHEAFFER ENGINEERING
301 Science Park Road, Suite 333
State College, PA 16803
O: 814.689.1562 | F: 814.689.1885
www.sse-llc.com
SSE PROJECT NO.: 19-622

DERCK & EDSON EST. 1940
CAMPUSES DOWNTOWNS ATHLETICS
33 SOUTH BROAD STREET LITITZ, PA 17543
101 NORTH ALLEGHENY STREET, BELLEFONTE, PA 16823
www.derckandedson.com (717) 626-2054

GENERAL NOTES AND SCHEDULES

AMENDED PRELIMINARY / FINAL SITE DEVELOPMENT PLAN
FAIRLIEGH DICKINSON ATHLETIC FIELDS
FAIRLEIGH DICKINSON UNIVERSITY
LOT 6 / BLOCK 101 - ZONE: UNIVERSITY
285 MADISON AVENUE, MADISON, NJ 07940
MADISON BOROUGH, MORRIS COUNTY, NEW JERSEY

REVISIONS:

No.	DATE	DESCRIPTION OF CHANGES

DATE: 03/05/2020
PROJECT #: 190450
DRAWN BY: MRM
PM: MRM
PIC: JMS

DRAWING NO.
S-002

3/4/2020 10:34:32 PM