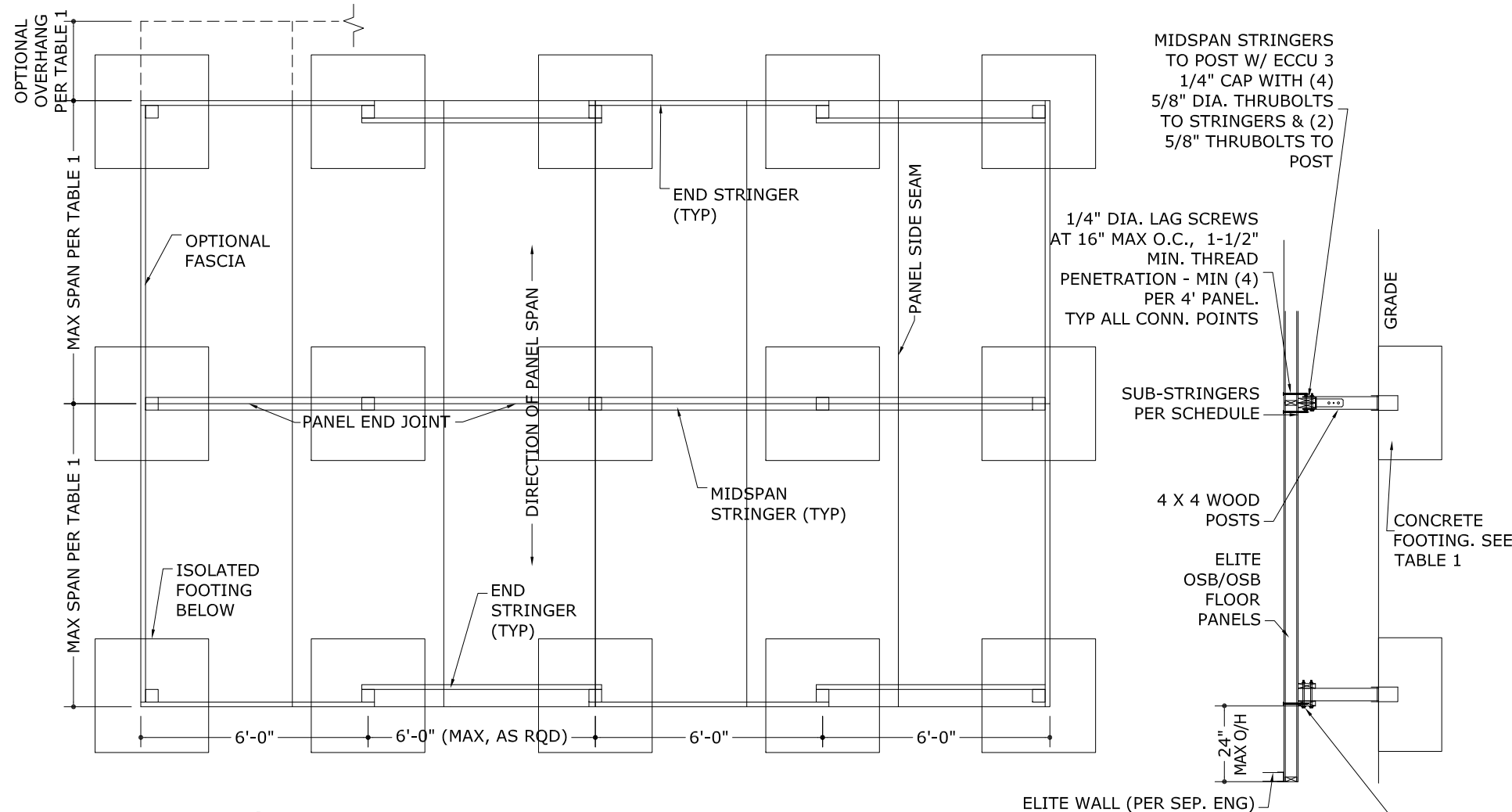


# RAISED OSB/OSB FLOOR DECK

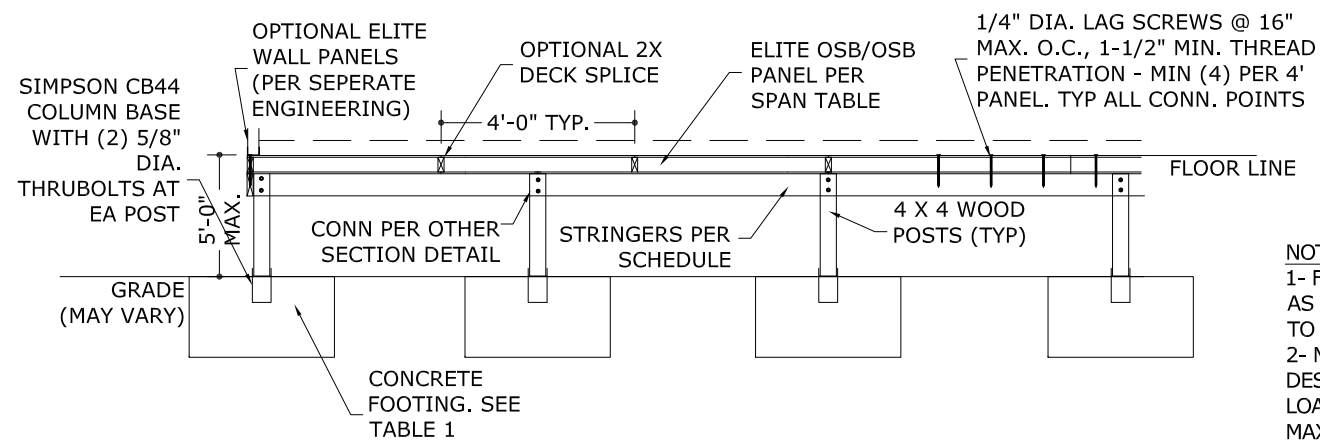
## GENERAL NOTES:

- THIS DOCUMENT SHALL NOT BE USED OR REPRODUCED WITHOUT THE ORIGINAL SIGNATURE & RAISED SEAL OF FRANK L. BENNARDO, P.E. & MUST HAVE 'ELITE' IN RED ACROSS THE FACE OF THIS DRAWING.
- THIS STRUCTURE HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 INTERNATIONAL BUILDING CODE & 2012 INTERNATIONAL RESIDENTIAL CODE. ANY LOCAL AMENDMENTS SUPERCEDING THIS CODE SHALL BE CONSIDERED IN DESIGN AND MAY REQUIRE ADD'L ENGINEERING. DESIGN FORCES PER ASCE 7-10 USING  $V=120$  MPH EXPOSURE 'B',  $K_d=0.85$ ,  $MRH \leq 15'$ . SEISMIC DESIGN NOT CONSIDERED. THE FLORIDA SEAL OF THIS ENGINEER CERTIFIES THIS DOCUMENT IS COMPLIANT WITH GOVERNING CODES LISTED HEREIN. THIS DESIGN UNDER A FLORIDA SEAL SHALL BE USED ONLY WHERE PERMITTED BY LAW AND ACCEPTED. INDIVIDUAL STATE CERTIFICATIONS OTHER THAN FLORIDA ARE AVAILABLE UNDER SEPARATE SEAL ONLY IN STATES TO WHICH WE ARE LICENSED.
- PANELS SHALL BE FABRICATED BY ELITE PANEL PRODUCTS ONLY. COMPOSITE FLOOR DECK PANELS SHALL BE CONSTRUCTED USING 5/8" ADVANTECH BY JM HUBER, (1) PCF ASTM C-578-83 CARPENTER BRAND EPS ADHERED TO OSB FACINGS WITH ASHLAND CHEMICAL 2020D ISO GRIP. FABRICATION TO BE BY ELITE PANEL PRODUCTS ONLY IN ACCORDANCE WITH APPROVED FABRICATION METHODS.
- ALL DIMENSION LUMBER SHALL BE STRUCTURAL GRADE #2 SOUTHERN YELLOW PINE MEETING APPLICABLE REQUIREMENTS OF THE SOUTHERN PINE INSPECTION BUREAU (SPIB)
- ALL DIMENSION LUMBER SHALL BE PRESSURE-IMPREGNATED (PT) BY AN APPROVED PROCESS (ACQ 0.4 PRESSURE TREATED) PRESERVATIVE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE BUILDING CODE AND AMERICAN WOOD PRESERVERS ASSN (AWPA) "BOOK OF STANDARDS".
- ANY WOOD MEMBER IN CONTACT WITH CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED. LUMBER SHALL BE HANDLED AND COVERED AS TO PREVENT MARRING AND MOISTURE ABSORPTION FROM RAIN.
- AUXILIARY SUPER-STRUCTURE (WALLS, ROOFS, COLUMNS, RAILINGS, ETC.) SHALL BE DESIGNED PER SEPARATE ENGINEERING.
- THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALUMINUM MEMBERS FROM DISSIMILAR METALS TO PREVENT ELECTROLYSIS.
- ELECTRICAL GROUND AND ALL RELATED WIRING AND CONSIDERATIONS TO BE DESIGNED BY OTHERS AS REQUIRED.
- CONCRETE STRENGTH TO BE  $f_c=3000$  P.S.I. AT 28 DAYS. CONCRETE MUST BE CURED AT LEAST 3 FULL DAYS BEFORE INSTALLING BOLTS.
- PRESUMPTIVE SOIL BEARING CAPACITY IS 2500 P.S.F. MIN. (BY OTHERS). FROST PENETRATION SHALL BE VERIFIED BY OTHERS AS PER MINIMUM FOOTING DEPTH BY LOCAL BUILDING CODES AND/OR GEOTECHNICAL REPORT.
- LAG BOLTS SHALL PENETRATE 1 1/2" MIN TO WOOD HOST STRUCTURE.
- ENGINEER SEAL AFFIXED HERETO VALIDATES STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et al. INDEMNIFIES AND SAVES HARMLESS THIS ENGINEER FOR ALL COSTS AND DAMAGES INCLUDING LEGAL FEES AND APPELLATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, AND CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE, AND FEDERAL CODES AND FROM DEVIATIONS OF THIS PLAN.  
DECK PANEL WEIGHT + FINISH FLOOR (DEAD LOAD) = 5PSF  
DEFLECTION LIMIT USED IN TABLE BELOW =  $DL+LL < L/240$  AND  $LL < L/360$
- THIS ENGINEER HAS NOT VISITED THIS JOB-SITE. INFORMATION CONTAINED HEREIN IS GENERIC AND DOES NOT PERTAIN TO ANY SPECIFIC PROJECT LOCATION. THIS ENGINEER SHALL NOT BE HELD RESPONSIBLE OR LIABLE IN ANY WAY FOR ERRONEOUS OR INACCURATE DATA OR MEASUREMENTS.
- EXCEPT AS EXPRESSLY PROVIDED IN THIS SPECIFICATION, NO CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.



TYP. RAISED PANEL PLAN VIEW

SCALE 1/4" = 1'-0"



NOTE:  
1- FOOTINGS DIMENSIONS ARE DESIGNED AS PER UPLIFT MWFRS AND WIND SPEED UP TO  $V=120$ MPH (3-SEC. GUST WIND)  
2- MAX. GRAVITY LOADS SHALL BE DESIGNED BY OTHERS AS PER ASCE 7-10 LOAD COMBINATIONS TO CONFORM TO MAX. LL (LIVE LOAD) +  $L_{wind}$  (LIVE WIND LOAD) SHOWN HEREIN.

TABLE 1 - ALLOWABLE FLOOR DECK CLEAR SPAN

OVERHANG LENGTH	LL+Lwind = 30 PSF			LL+Lwind = 40 PSF			LL+Lwind = 55 PSF		
	NO O/H	12" O/H	24" O/H	NO O/H	12" O/H	24" O/H	NO O/H	12" O/H	24" O/H
4.5" PANEL	8'-10"	8'-11"	9'-3"	8'-1"	8'-2"	8'-5"	7'-3"	7'-4"	7'-8"
6.5" PANEL	11'-0"	11'-0"	11'-3"	10'-0"	10'-1"	10'-3"	8'-11"	9'-2"	9'-4"
8.5" PANEL	12'-7"	12'-7"	12'-10"	11'-5"	11'-6"	11'-8"	10'-3"	10'-4"	10'-7"
	DECK ENDS		MID SPAN	DECK ENDS		MID SPAN	DECK ENDS		MID SPAN
FOOTINGS	30" X 30" X 18"		34" X 34" X 22"	28" X 28" X 20"		32" X 32" X 22"	26" X 26" X 20"		30" X 30" X 22"
WOOD STRINGERS	(1) 2 X 10		(2) 2 X 10	(1) 2 X 12		(2) 2 X 10	(1) 2 X 12		(2) 2 X 10
CONNECTIONS	(4) 1/2" DIA. THRU BOLTS, 2" MIN APART, 2" MIN FROM TOP, ON POST, CENTERED		SIMPSON ECCU3/4-4 CAP WITH (4) 5/8" DIAM THRU BOLTS TO STRINGERS	(4) 1/2" DIA. THRU BOLTS, 2" MIN APART, 2" MIN FROM TOP, ON POST, CENTERED		SIMPSON ECCU3/4-4 CAP WITH (4) 5/8" DIAM THRU BOLTS TO STRINGERS	(4) 1/2" DIA. THRU BOLTS, 2" MIN APART, 2" MIN FROM TOP, ON POST, CENTERED		SIMPSON ECCU3/4-4 CAP WITH (4) 5/8" DIAM THRU BOLTS TO STRINGERS

FRANK L. BENNARDO, P.E. # PE0046549



VALID FOR (1) JOB(S) ONLY  
VALID ONLY WITH RAISED ENGINEER SEAL



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Ph: (954) 354-0660 Fax: (954) 354-0443  
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CERT OF AUTH #9885  
A FRANK L. BENNARDO, P.E., INC. INNOVATION



4650 LYONS TECHNOLOGY PARKWAY  
COCNUT CREEK, FL 33073

RAISED OSB/OSB FLOOR DECK SANDWICH PANEL



DRWN	CHKD	DATE
KLP	FLB	10/01/02
RKB	CL	05/15/07
AML	TSB	11-16-10
AML	TSB	11-28-12

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00-EAC-1038

SCALE: - 04

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