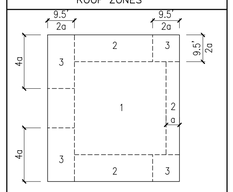
COMPONENTS AND CLADDING WIND LOAD SCHEDULE

DESIGN WIND LOAD		COMPONENT	DESIGN PRESSURES		
			WIND DIRECTION		
MPH	EXPOSURE		0°	180°	ELEVATION
120	D	NORMAL TO RIDGE	44 PSF	51 PSF	
120	D	PARALLEL TO RIDGE 90°	46 PSF	56 PSF	
120	D	ROOF	NEGATIVE PRESSURE ZONE 1 −42 PSF ZONE 2 −70 PSF ZONE 3 −105 PSF		ROOF ZONES 

DESIGN PRESSURES (NEGATIVE)

AREA (S.F.)	ZONE 1	ZONE 2	ZONE 3
≤10	42 PSF	70 PSF	105 PSF
50	39 PSF	53 PSF	63 PSF
100	38 PSF	45 PSF	45 PSF

NOTES:
1. LOADINGS PER ASCE 7-05: 2007 WITH 2009 SUPPLEMENTS

GENERAL STRUCTURAL NOTES

COLD FORMED STEEL FRAMING

1. ALL COLD-FORMED STEEL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF "SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" BY THE AMERICAN IRON AND STEEL INSTITUTE.

2. STRUCTURAL DRAWINGS TYPICALLY SHOW ONLY THE PRIMARY STRUCTURAL FRAMING ELEMENTS OF THE SYSTEM. CONTRACTOR SHALL PROVIDE ALL ACCESSORIES INCLUDING TRACKS, WEB STIFFENERS, BLOCKING, LINTELS, CLIP ANGLES, REINFORCEMENTS, FASTENING DEVICES, BRACING, AND OTHER ACCESSORIES AS RECOMMENDED BY THE MANUFACTURER TO PROVIDE A COMPLETE FRAMING SYSTEM.

3. STEEL FOR 12, 14 AND 16 GAGE STUDS AND JOISTS SHALL HAVE MINIMUM YIELD STRENGTH OF 50 KSI. STEEL FOR ALL 18, 20 AND 25 GAGE STUDS AND JOISTS, ALL GAGES OF TRACK, ALL DIAGONAL TENSION STRAPS OR BRACES, AND BRIDGING SHALL HAVE MINIMUM YIELD STRENGTH OF 33 KSI. STEEL SHALL BE GALVANIZED OR THOROUGHLY COATED WITH RUST INHIBITIVE PAINT AT ALL LOCATIONS.

4. FASTENING OF COMPONENTS SHALL BE WITH SELF-TAPPING SCREWS OR WELDS. ALL WELDS OF GALVANIZED STEEL SHALL BE TOUCHED UP WITH ZINC-RICH PAINT. ALL WELDS OF CARBON SHEET STEEL SHALL BE TOUCHED UP WITH PAINT.

5. ALL STUDS SHALL BE SECURELY SEATED FOR FULL END BEARING ON TOP AND BOTTOM TRACK. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE STUDS AT ALL JAMBS, CORNERS, INTERSECTIONS, AND BEAM BEARING.

6. WALL STUD BRIDGING, AS RECOMMENDED BY THE STUD MANUFACTURER, SHALL BE INSTALLED TO PREVENT BOTH WEAK AXIS BENDING AND STUD ROTATION AT 4'-0" MAXIMUM INTERVALS. WALLS 8'-0" AND SHORTER SHALL HAVE A SINGLE ROW OF BRIDGING AT MID-HEIGHT. IN ADDITION, BRIDGING SHALL BE PROVIDED AT ROOF LINES AND ELSEWHERE AS NOTED ON THE DRAWINGS. SOLID BLOCKING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE NOTED ON THE DRAWINGS.

7. SCREWS SHALL BE SELF-TAPPING PAN HEAD, HEX HEAD, OR WAFER HEAD SHEET METAL SCREWS. A SCREW OF A LARGER DIAMETER SHALL REPLACE SCREWS, WHICH ARE REMOVED, WHERE THE REPLACEMENT IS MADE INTO AN EXISTING HOLE. REPLACE ALL SCREWS, WHICH STRIP OUT MATERIAL. SCREWS SHALL BE SPACED NO CLOSER THAN 5/8 INCH ON CENTER AND WITH A MINIMUM FREE EDGE DISTANCE OF 1/2 INCH. CLIP ANGLES OR FLAT CLIPS USED FOR ATTACHMENTS SHALL BE 20 GAGE MINIMUM, UNLESS NOTED OTHERWISE. SIZE CLIP ANGLES AND FLAT CLIPS TO MAINTAIN MINIMUM SCREW SPACING AND EDGE DISTANCES NOTED ABOVE. ALL SCREWS #8 AND LARGER SHALL HAVE A MINIMUM HEAD SIZE OF 5/16 INCH.

8. ALL WELDING SHALL BE PERFORMED BY WELDERS EXPERIENCED IN LIGHT GAGE, STRUCTURAL STEEL FRAMING WORK.

9. STUDS SIZE WHERE NOT SPECIFICALLY NOTED ON DETAILS SHALL BE 1-5/8 INCH WIDE BY 3-1/2 INCH DEEP BY 20 GAGE MINIMUM. TRACK SIZE WHERE NOT SPECIFICALLY NOTED ON DETAILS SHALL BE 1" WIDE BY 3-1/2 INCH BY 20 GAGE MINIMUM.

10. JOISTS, STUDS, TRACK, ETC., SHALL HAVE STEEL THICKNESS AND EFFECTIVE SECTION PROPERTIES AS LISTED IN THE METAL STUD MANUFACTURERS ASSOCIATION MANUAL, ICBO ER NO. 4943, OR EQUIVALENT.

DEFERRED SUBMITTALS

1. IN ACCORDANCE WITH THE FBC, SPECIALTY ITEMS, PRE-ENGINEERED COMPONENTS, AND DESIGN/BUILD ELEMENTS MAY BE SUBMITTED FOR APPROVAL BY THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL BY DEFERRED SUBMITTAL. SUCH ITEMS ARE DEFINED AS THOSE SPECIFIED IN CONSTRUCTION DOCUMENTS BUT WHICH REQUIRE DESIGN BY THE MANUFACTURER, SUPPLIER OR INSTALLER.

2. DEFERRED SUBMITTALS ARE REQUIRED FOR THE FOLLOWING:

SKYLIGHTS
EXTERIOR SIGNAGE AND FOUNDATIONS
EXTERIOR LIGHTING POLES AND FOUNDATIONS
PREFABRICATED WOOD TRUSSES,
PREFABRICATED STEEL TRUSSES
MASONRY, GROUT, MORTAR

3. SUBMITTALS SHALL INCLUDE:

a) CALCULATIONS, PREPARED AND SEALED BY AN APPROPRIATELY REGISTERED ENGINEER (THE "SPECIALTY ENGINEER").
b) DIAGRAM PREPARED AND SEALED BY THE SPECIALTY ENGINEER, SHOWING LOAD MAGNITUDES AND LOCATIONS – SEPARATED INTO DEAD, LIVE, WIND AND/OR SEISMIC COMPONENTS – THAT ARE APPLIED TO THE PRIMARY STRUCTURE.
c) ERECTION OR DESIGN DRAWINGS BEARING THE SPECIALTY ENGINEER'S SEAL AND THE ARCHITECT'S STAMP INDICATING HIS REVIEW.

4. SUBMIT ONE (1) REPRODUCIBLE COPY, ONE (1) WET SEALED COPY FOR THE STRUCTURAL ENGINEER OF RECORD'S FILE, AND ADDITIONAL COPIES AS ARE NECESSARY FOR THE BUILDING DEPARTMENT. SUBMITTALS CONTAINING EXCEPTIONS, CORRECTIONS, OR OTHER REVIEW COMMENTS ARE NOT ACCEPTABLE FOR SUBMITTAL TO THE BUILDING DEPARTMENT.

5. THE STRUCTURAL ENGINEER OF RECORD'S REVIEW IS STRICTLY LIMITED TO THE FOLLOWING:

a) THE DRAWINGS AND CALCULATIONS ARE PROPERLY SEALED.
b) THE LOAD CRITERIA IS CONSISTENT WITH THE CONTRACT DOCUMENTS AND UNIFORM BUILDING CODE REQUIREMENTS.
c) THE CONNECTIONS TO THE PRIMARY STRUCTURE ARE CONSISTENT WITH THE PRIMARY DESIGN.
d) THE BASE STRUCTURE IS CAPABLE OF SUPPORTING THE IMPOSED LOADS.

6. IF THE LOADS IMPOSED ON THE STRUCTURE EXCEED THE LOAD ALLOWANCE PROVIDED, THE STRUCTURAL ENGINEER OF RECORD WILL REJECT THE SUBMITTAL ONLY AT THE OWNER'S WRITTEN DIRECTION WILL MODIFICATIONS TO THE BASE STRUCTURE TO ACCOMMODATE THE SPECIALTY ITEM(S) BE MADE BY THE ENGINEER OF RECORD. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL HAVE APPROVED SUBMITTAL DOCUMENTS.

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LICENSE STAMP

TO THE BEST OF MY KNOWLEDGE THESE PLANS ARE IN ACCORDANCE WITH THE LATEST EDITION OF THE 2007 FLORIDA BUILDING CODE WITH 2009 SUPPLEMENTS

REVISIONS

NO.	DATE	BY
DESCRIPTION		

PROJECT
2007 FBC WIND DESIGN UPDATE FOR:
DAYTONA BEACH PIER
MAIN STREET
DAYTONA BEACH, FLORIDA

DRAWING TITLE
GENERAL STRUCTURAL NOTES AND SCHEDULES

JOB NO.	10-010
SCALE	AS NOTED
DRAWN	JJB
CHECKED	JPS
DATE	7/1/10

SHEET NUMBER
S1.1