

JOIST NET UPLIFT KEY PLAN

SCALE: N.T.S.

GENERAL STRUCTURAL NOTES

DESIGN LOADS @ ROOF (PSF)			
MEMBER	STIFF.	PURLIN	GIRDER
DEAD LOAD	10	15	15+ SELF WT.
LIVE LOAD	20	IBC	IBC

GENERAL CONTRACTOR NOTES:

- GEN'L. CONTRACTOR RESPONSIBLE FOR THE ACCURATE LOCATION OF ANCHOR BOLTS AND EMBEDDED CONNECTIONS PER THE CONTRACT DRAWINGS AND THE STRUCTURES GROUP LAYOUT.
- WALL TIES TO BE BENT UP FLUSH TO WALL BY GEN'L. CONTRACTOR PRIOR TO ROOF ERECTION
- VERTICAL REBAR TO BE BENT HORIZONTAL BY GEN'L. CONTRACTOR PRIOR TO ROOF ERECTION IN ACCORDANCE WITH OSHA STANDARDS.
- RAIN INTENSITY $i = 3\text{IN/HR}$

SHEATHING:

- ALL ROOF SHEATHING TO BE 1/2" CDX; C-D STRUCTURAL 2 OR BETTER, 5-PLY MIN. 32/16 SPAN RATING PER NER-108.
- ALL FLOOR SHEATHING TO BE: NONE
- ALL SHEATHING TO BEAR THE MARK OF AN APPROVED INSPECTION AGENCY.
- ALL DIAPHRAGM NAILING TO BE 10d COM. WITH MIN. 1 1/2" PENETRATION INTO SUPPORT MEMBERS. ROOF DIAPHRAGM NAILING AND PLACEMENT SHALL BE INSPECTED AND APPROVED PRIOR TO COVERING

SAWN LUMBER :

- ALL LUMBER TO BE DOUGLAS FIR-LARCH OF THE FOLLOWING MIN. GRADES UNLESS NOTED ON PLAN. ALL STRUCTURAL LUMBER TO BEAR THE MARK OF A CERTIFIED LUMBER GRADING AGENCY
- | | |
|------------------------|---------------|
| STIFFENERS | SELECT STRUCT |
| LEDGERS & PLATE | NO.2 |
| JOIST & 5" WIDE FRMG. | NO.2 |
| NON STR. 4" WIDE FRMG. | S.& B. |

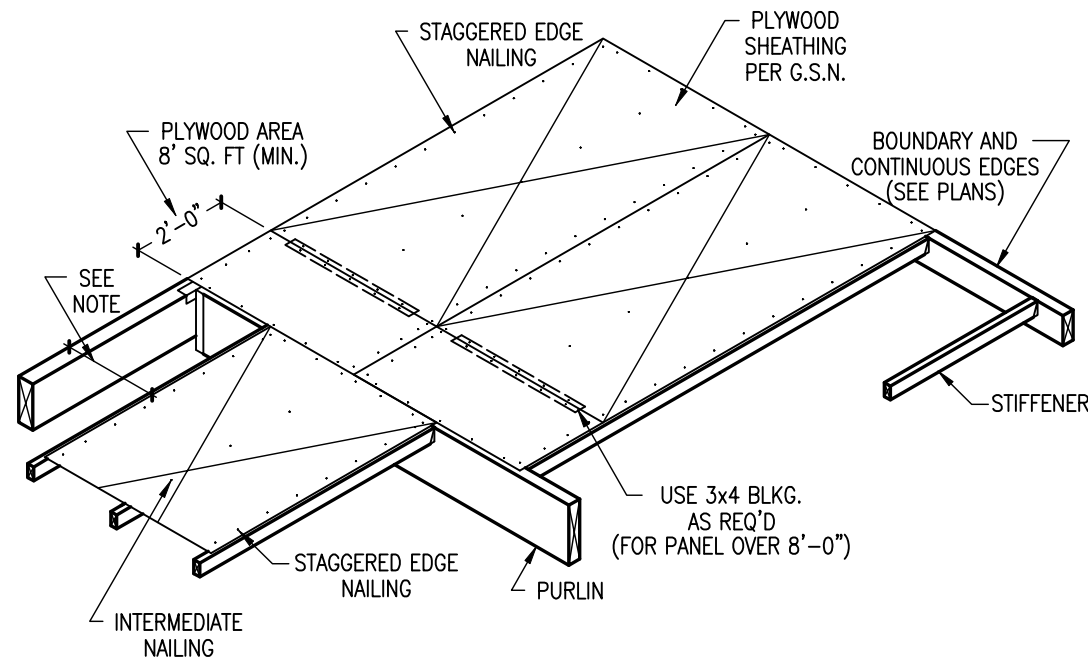
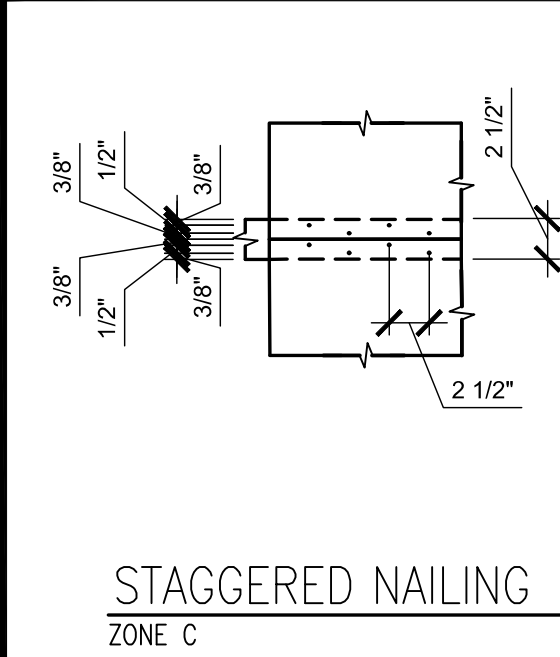
FABRICATED STEEL:

- STEEL TO BE ASTM A992 OR APPROVED EQUAL.
- TUBE STEEL SHALL BE ASTM A500 GRADE B.
- PIPE SHALL BE ASTM A53 GRADE B.
- ALL CHANNELS, ANGLES & PLATES SHALL BE ASTM A36.
- FABRICATION SHALL CONFORM TO ICBO & AISC STANDARDS.
- WELDING TO BE BY CERTIFIED WELDERS.
- ONE COAT OF CORROSION PRETECTION PAINT SHALL BE SHOP APPLIED. THE ONLY EXCEPTION SHALL BE GALVANIZED ITEMS & THAT PORTION OF ANY STEEL TO BE CAST INTO CONCRETE.
- BOLTS HOLES TO BE BOLT SIZE PLUS 1/16".
- ICC APPROVED CATALOG ITEMS NEED NOT CONFORM TO ABOVE.
- INSTALL CATALOG ITEMS PER MFR REC'S.

STEEL JOIST & GIRDER:

- TO BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH THE "STEEL JOIST INSTITUTE" CURRENT DOCUMENTS, CONTRACT DRAWINGS AND THE STRUCTURES GROUP LAYOUT.
- SUBMIT CALCULATIONS SIGNED BY A REGISTERED ARIZONA ENGINEER TO THE ENGINEER OF RECORD FOR APPROVAL.
- ADDITIONAL ROOF JOIST LOADING:
 - 0.5K ADLOAD (U.O.N.)
 - 6.3K AXIAL SEISMIC-ASD (U.O.N.)
 - NET UPLIFT = 3.7PSF WITHIN ZONE 1'; 9.7psf WITHIN ZONE 1; 16.1psf WITHIN ZONE 2. AS SHOWN IN JOIST NET UPLIFT KEYPLAN THIS SHEET.
 - DESIGN JOISTS FOR A 16 PSF (UNFACTORED) DOWNWARD PRESSURE
- ADDITIONAL ROOF GIRDER LOADING:
 - 1.5K ADLOAD (U.O.N.)
 - 41.4K AXIAL (SEISMIC-ASD)
 - 4.5psf NET UPLIFT + ADD'L 5.0psf WITHIN 28'-0" OF WALLS
 - GIRDER SELF-WEIGHT HAS BEEN INCLUDED UP TO 35 PLF
- SEE PLAN FOR ROOFTOP MECHANICAL UNIT LOADS.
- LOADING SHOWN ON PLAN IS (TOTAL LOAD/LIVE LOAD) PER FOOT
- GIRDER LOADING SHOWN ON PLAN IS TOTAL LOAD IN KIPS APPLIED TO TOP CHORD, U.O.N.
- LIMIT ROOF MEMBERS TO 9/240 LIVE LOAD DEFLECTION.
- STEEL JOISTS AND GIRDERS TO BE MANUFACTURED BY AN APPROVED FABRICATOR PER IBC SECTION 1704.2.5.

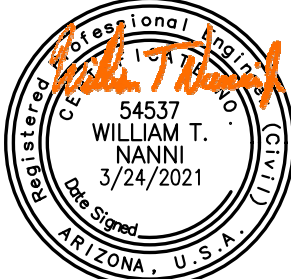
PREFABRICATED STEEL JOIST & STEEL JOIST GIRDERS ARE TO BE SUBMITTED ON A DEFERRED SUBMITTAL PER 2018 IBC SECTION 106.3.4.2. SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.



PANELIZED DETAIL

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