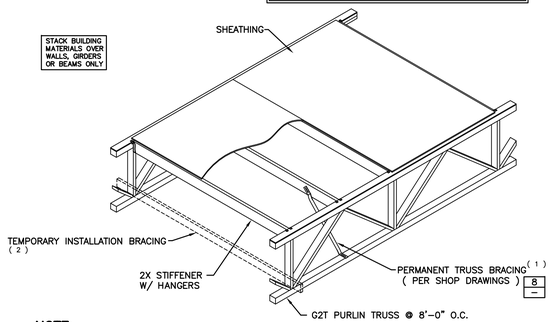
ATTENTION

NO ONE SHOULD BE ALLOWED ON ANY G2T TRUSS UNTIL ALL HANGERS & CROSS BRIDGING, IF REQ'D, AND TEMPORARY BRACING ARE IN PLACE AND NAILED SECURELY. SERIOUS ACCIDENTS MAY OCCUR UNLESS CARE IS TAKEN TO PROPERLY BRACE DURING CONSTRUCTION. THIS DETAIL SHOULD BE USED AS A GUIDELINE FOR BRACING.

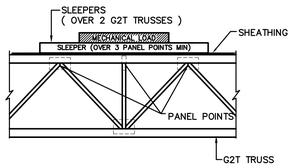


NOTE:

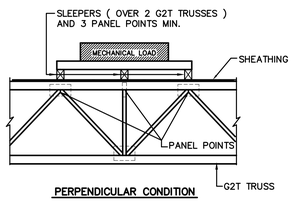
(1) PERMANENT BRACING SHALL BE PER FABRICATOR'S RECOMMENDATIONS. IF PERMANENT BRACING IS USED AS THE INSTALLATION BRACING, IT MUST BE INSTALLED AS EACH TRUSS IS PLACED. A MINIMUM OF TWO (2) INSTALLATION BRACES ARE REQUIRED AT ALL SPANS GREATER THAN 32'-0".

(2) INSTALLATION BRACING IN ADDITION TO OR IN LEIU OF PERMANENT TRUSS BRACING TO BE DESIGNED AND INSTALLED BY THE INSTALLATION CONTRACTOR.

1 ERECTION BRACING



PARALLEL CONDITION



PERPENDICULAR CONDITION

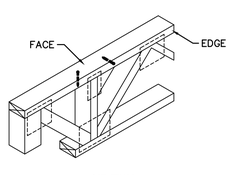
NOTES

1. COORDINATE MECHANICAL LOCATIONS WITH LAYOUT AND G2T CALCULATIONS
2. SLEEPERS MUST BE LOCATED AT PANEL POINTS

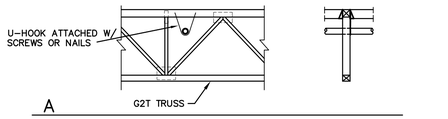
2 MECHANICAL LOADS ON G2T TRUSSES

G2T TRUSS NAILING CHART
(MINIMUM ON CENTER SPACING)

NAIL	TYPE	NAIL SIZE	MSR (M)		LSL (L)			LVL (V)	
			FACE	EDGE	FACE	FACE MULTI-ROWS	EDGE	FACE	EDGE
8d	BOX	0.113"X2 1/2"	2"	2"	3"	3"	1"	2"	1"
	COMMON	0.131"X2 1/2"	2"	2"	3"	3"	1"	3"	1"
10d	BOX	0.128"X3"	2"	2"	3"	3"	1"	3"	1"
	COMMON	0.148"X3"	3"	4"	3"	4"	1"	4"	1"
12d	BOX	0.128"X3 1/4"	3"	2"	3"	3"	1"	3"	1"
	COMMON	0.148"X3 1/4"	3"	4"	3"	4"	1"	4"	1"
16d	BOX	0.135"X3 1/2"	3"	3"	3"	4"	2"	3"	2"
	SINKER	0.148"X3 1/4"	3"	4"	3"	4"	2"	4"	2"
	COMMON	0.162"X3 1/2"	4"	6"	3"	6"	2"	6"	2"



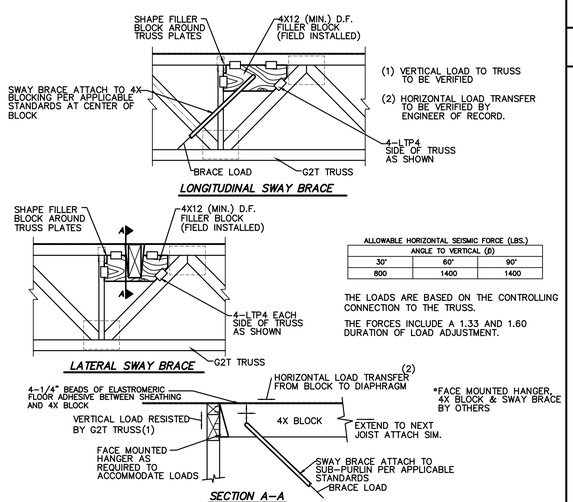
3 NAILING CHART



NOTES:

1. WOOD SCREWS WITH A MAXIMUM DIAMETER OF 5/16" MAY BE USED ANYWHERE ON THE TOP CHORD OF THE G2T TRUSS WITHOUT PRE-DRILLING A PILOT HOLE, UNLESS NOTED OTHERWISE ON PLANS.
2. BOLTS OR LAG SCREWS HAVING A DIAMETER OF 3/8" OR GREATER MUST BE LOCATED IN THE CONNECTOR PLATE AT THE TOP CHORD OF THE G2T TRUSS.
3. BOLTS OR LAG SCREWS HAVING A DIAMETER OF 1/2" OR GREATER MUST HAVE PRE-DRILLED HOLES LOCATED IN THE CONNECTOR PLATE AT THE TOP CHORD OF THE G2T TRUSS.
4. DO NOT DRILL HOLES, DRIVE HEAVY SCREWS, OR USE LAG BOLTS IN THE BOTTOM CHORD OF G2T TRUSS.
5. COORDINATE ATTACHMENT OF SPRINKLER PIPE 4" DIAMETER AND LARGER WITH TRUSS LAYOUT AND CALCULATIONS.
6. BOLTS OR LAG SCREWS INTO THE TOP CHORD SHALL BE LIMITED TO A MAXIMUM DIAMETER AS FOLLOWS; 1/2" @ G2T44; 7/8" @ G2T46
7. NOTE: ALL CONNECTIONS. CLAMPS, HANGERS, RODS, OR SUPPORT ETC..... SHALL BE IN ACCORDANCE WITH NFPA 13

4 FIRE SPRINKLER ATTACHMENT DETAIL

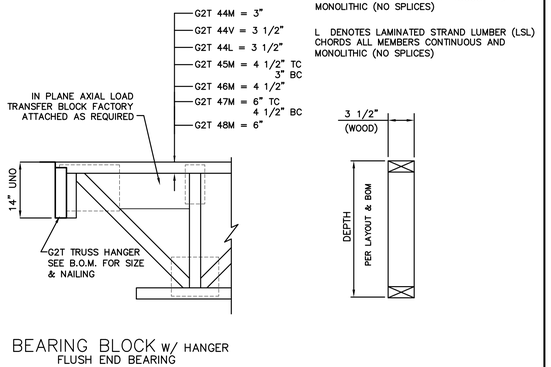


5A FIRE SPRINKLER SWAY BRACE DETAIL

M DENOTES MACHINE STRESS RATED (MSR) LUMBER STRUCTURALLY FINGER JOINTED INTO A CONTINUOUS MEMBER. MULTIPLE PLIES ARE FACE BONDED CREATING A CONTINUOUS AND MONOLITHIC MEMBER.

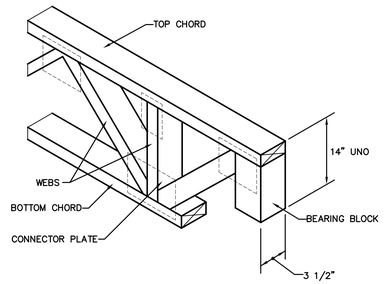
V DENOTES LAMINATED VENEER LUMBER (LVL) CHORDS ALL MEMBERS CONTINUOUS AND MONOLITHIC (NO SPLICES)

L DENOTES LAMINATED STRAND LUMBER (LSL) CHORDS ALL MEMBERS CONTINUOUS AND MONOLITHIC (NO SPLICES)

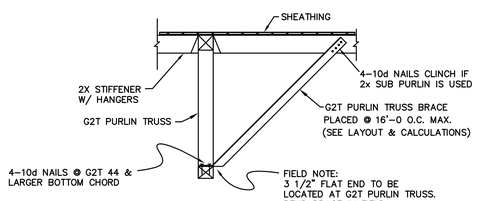


BEARING BLOCK w/ HANGER
FLUSH END BEARING

6 G2T TRUSS GENERAL DIMENSIONS



7 G2T TRUSS W/ BEARING BLOCK



8 PERMANENT G2T ERECTION BRACE

G2T PURLIN JOIST PRODUCT COVER SHEET

JOB SITE HANDLING OF G2T OPEN WEB TRUSSES

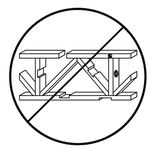
IT IS THE BUILDING CONTRACTOR'S RESPONSIBILITY TO UNLOAD THE G2T TRUSSES FROM THE TRUCK AND FOR ALL HANDLING THEREAFTER. THE G2T OPEN WEB TRUSS GUARANTEE ONLY APPLIES AS LONG AS THE THE PRODUCT IS NOT DAMAGED OR ALTERED IN ANY WAY, IS INSTALLED IN A WORKMANLIKE MANNER.
G2T TRUSSES WILL BE DELIVERED TO THE JOBSITE IN BUNDLES BANDED TOGETHER FOR HANDLING EASE. TO AVOID DAMAGE, TRUSSES SHOULD BE LEFT IN THESE BUNDLES UNTIL READY FOR INSTALLATION IN THE STRUCTURE.
A CARELESS CRANE OR FORKLIFT OPERATOR CAN DAMAGE G2T TRUSSES. NEVER HANDLE G2T TRUSSES FLAT – KEEP IN AN UPRIGHT POSITION.

STORAGE OF G2T OPEN WEB TRUSSES

DURING STORAGE AT THE JOBSITE, KEEP G2T TRUSSES IN AN UPRIGHT POSITION. THE BUNDLES SHOULD BE SUPPORTED ON LEVEL STICKERS TO KEEP THE G2T TRUSSES OUT OF THE MUD AND DIRT. STACKING OF BUNDLES IS PERMITTED IF AN ADEQUATE NUMBER OF STICKERS ARE PROVIDED TO PREVENT DAMAGE AND NORMAL SAFETY PRECAUTIONS ARE FOLLOWED. ALL GLUE USED IN G2T TRUSSES IS WATER PROOF, HOWEVER, LONG EXPOSURE TO WATER AND SUN WILL CAUSE SOME DETERIORATION AND CHECKING OF WOOD. G2T TRUSSES SHOULD RECEIVE THE SAME PROTECTION FROM WEATHER AS OTHER WOOD PRODUCTS.

TYPICAL G2T PROJECT NOTES:

1. FOR NOTES, DETAILS, AND DIMENSIONS NOT ON THESE SHOP DRAWINGS, REFER TO PROJECT PLANS.
2. SEE BILLS OF MATERIAL FOR ITEMS FURNISHED.
3. ALL CLOUDED NOTES, DIMENSIONS, ETC. REQUIRE VERIFICATION AND MUST BE MARKED EITHER "OK" OR THE CORRECT INFORMATION PROVIDED BY CUSTOMER, PRIOR TO RETURN TO BEING RETURNED FOR FABRICATION.
4. PLEASE BE AWARE THAT ANY CLOUDED ITEMS NOT ACKNOWLEDGED WILL REQUIRE CONTACT WITH RESPONSIBLE PARTIES AND MAY CAUSE DELAY IN THE PROCESSING OF YOUR ORDER.
5. PLEASE VERIFY THAT ALL INFORMATION PROVIDED HEREWITH REFLECTS THE LATEST AVAILABLE PROJECT INFORMATION AND THAT ALL G2T TRUSS LENGTHS CORRESPOND WITH ACTUAL FIELD DIMENSIONS PRIOR TO BEING RETURNED FOR FABRICATION.
6. ALL BRACING SHOWN IS INTEGRAL TO THE G2T OPEN WEB TRUSS SYSTEM AND IS NOT TEMPORARY OR ERECTION BRACING. THE G2T OPEN WEB TRUSS WILL NOT SAFELY SUPPORT LOADS UNTIL FULLY BRACED, FULLY ATTACHED TO BEARING WALLS OR BEAMS, AND SHEATHING, BY OTHERS IS PROPERLY INSTALLED (SEE LAYOUTS AND DETAILS).
7. POINT LOADS THAT EXCEED 100 LBS. AS INDICATED ON THE LAYOUT HEREIN.
8. INSTALLATION OF G2T OPEN WEB TRUSSES MUST FOLLOW ANY ADDITIONAL REQUIREMENTS INDICATED ON THE LAYOUTS AND IN THE CALCULATIONS.
9. ALL G2T OPEN WEB TRUSSES ARE DESIGNED FOR UNIFORM LOADS AND CONCENTRATED LOADS NOTED ON THESE DRAWINGS AND CALCULATIONS. TEMPORARY CONSTRUCTION LOADS WHICH CAUSE STRESSES BEYOND DESIGN CRITERIA ARE NOT PERMITTED.
10. ALL 2X, 4X, 6X ETC. FRAMING TO BE SUPPLIED BY OTHERS, UNO. (FMBO).
11. METAL STRAPS AND/OR TIES USED FOR SEISMIC PURPOSES THAT ARE NAILED TO THE TOP OF THE TOP CHORD ARE TO USE 10d NAILING AT NO LESS THAN 3" oc IN A ROW. ACCEPTABLE STRAPS FOR G2T TOP CHORDS ARE LTTI, LSTI, MSTI AND PAI.
12. G2T OPEN WEB TRUSS ARE NOT DESIGNED TO SUPPORT ANY FIRE SPRINKLER AND/OR MECHANICAL LOADS OTHER THAN WHAT IS SHOWN ON THESE SHOP DRAWINGS, AND OR WHAT HAS BEEN PROVIDED IN THE DESIGN DEAD LOAD(S).
13. THE PLACEMENT OF THE MECHANICAL UNITS AND SPRINKLER MAINS ARE TO BE AS NOTED ON THESE SHOP DRAWINGS. THE SUPPORTING TRUSSES HAVE BEEN SPECIFICALLY DESIGNED TO ACCOMMODATE THESE ITEMS. ALL COMPONENTS TRANSFERRING LOADS TO THE TRUSSES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE DETAILS CONTAINED WITHIN THESE DRAWINGS.
14. G2T TRUSS DESIGNS ARE IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE IBC, CBC, AND NATIONAL DESIGN SPECIFICATION, AND CONFORM TO CURRENT ICC-ES REPORT.



■ DO NOT CUT, DRILL OR NOTCH CHORDS AND WEB MEMBERS

9 G2T TRUSS NOTES

WARNING:

Drilling, sawing, sanding or machining wood products generates wood dust and other substances known to to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask or other safeguards for personal protection.

Wood products emit chemicals known to cause birth defects or other reproductive harm.

LEGEND / ABBREVIATIONS

SEE PROJECT PLANS FOR OTHER ABBREVIATIONS AND SYMBOLS USED.

- DETAIL (ON SHOP DRAWINGS)
- PROJECT PLAN DETAIL (PER PLANS)
- START G2T TRUSS LAYOUT @ o/c SPACING
- STRONGBACK LOCATION
- DIRECTION OF ROOF SLOPE

FMBO = FRAMING MATERIAL BY OTHERS
VIF = VERIFY IN FIELD
NIC = NOT IN CONTRACT
UNO = UNLESS NOTED OTHERWISE
FSML = FIRE SPRINKLER MAIN LINE
FTF = FACE TO FACE (CLEAR SPAN OF TRUSS)
MTL = MANUFACTURED TRUSS LENGTH
OTCL = OVERALL TOP CHORD LENGTH (SLOPE LENGTH)
LBS = POUNDS
PSF = POUNDS PER SQUARE FOOT
PLF = POUNDS PER LINEAL FOOT
MFR. = MANUFACTURER
>, = GREATER THAN, (<, = LESS THAN)
o/c, O.C. = ON CENTER [SPACING]
BOM = BILL(S) OF MATERIAL (8 1/2 x 11 SHEETS)
DBL = DOUBLE MEMBER (TPL = TRIPLE MEMBER)

REVISIONS

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2308 DEL PASO BLVD
SACRAMENTO, CA 95815

ENGINEER
SKW & ASSOCIATES
916-429-2800

ARCHITECT
HMR ARCHITECTS
916-736-2724

CUSTOMER
GO CONSTRUCTION INC
SD OCHOA
916-683-3480

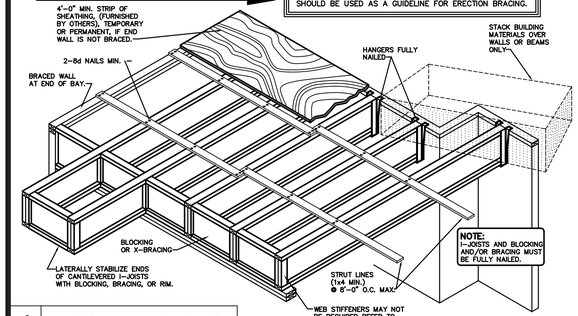
G2 STRUCTURAL

G2 STRUCTURAL LLC
4400 N. SCOTTSDALE RD. #9396, SCOTTSDALE, AZ 85251

11/02/2017
PN-13168
SHEET
1 OF 5

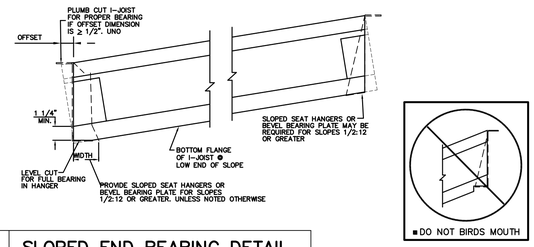
ATTENTION

NO ONE SHOULD BE ALLOWED ON ANY I-JOIST UNTIL ALL HANGERS, BLOCKING, CROSSBRIDGING, IF REQ'D, AND TEMPORARY BRACING ARE IN PLACE AND NAILED SECURELY. SERIOUS ACCIDENTS MAY OCCUR UNLESS CARE IS TAKEN TO PROPERLY BRACE DURING CONSTRUCTION. THIS DETAIL SHOULD BE USED AS A GUIDELINE FOR ERECTION BRACING.



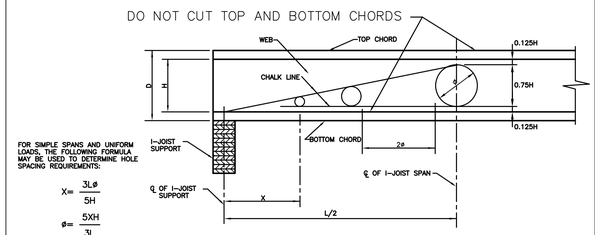
1 ERECTION BRACING

N.T.S.



3 SLOPED END BEARING DETAIL

N.T.S.



WHERE:

X = DISTANCE, IN FEET, FROM CENTERLINE OF SUPPORT TO CENTERLINE OF HOLE.
L = JOIST SPAN, IN FEET, CENTERLINE OF SUPPORT TO CENTERLINE OF SUPPORT.
ø = HOLE DIAMETER, IN INCHES.
H = WEB DEPTH, IN INCHES.

FOR SIMPLE SPANS AND UNIFORM LOADS, A CHALK LINE CAN BE USED TO SHOW ALLOWABLE HOLE SIZES PERMITTED AT A GIVEN LOCATION ALONG THE SPAN. DO NOT INCREASE HOLE DIAMETER BEYOND TANGENT POINTS OF CHALK LINE AND CHORDS. THESE HOLES MAY BE PLACED ANYWHERE IN THE VERTICAL DIRECTION BETWEEN THE TOP AND BOTTOM CHORDS, PROVIDED A 0.125H GAP IS MAINTAINED BETWEEN HOLE AND CHORD. IF JOISTS ARE CANTILEVERED OR IF CONCENTRATED LOADS ARE EXPECTED, CONTACT YOUR SALES REPRESENTATIVE FOR CORRECT HOLE LOCATIONS. REMEMBER THAT HOLES, AND ESPECIALLY LARGE AND MULTIPLE HOLES, TEND TO INCREASE DEFLECTION.

NOTES:

GENERAL – DO NOT CUT THE WEB WITHIN D/2 OF THE SUPPORT CENTERLINE, OTHERWISE A 1 1/4"–INCH HOLE @ 24" O.C. CAN BE CUT IN THE WEB ANYWHERE, THE TOP AND BOTTOM CHORDS ARE NEVER TO BE CUT.

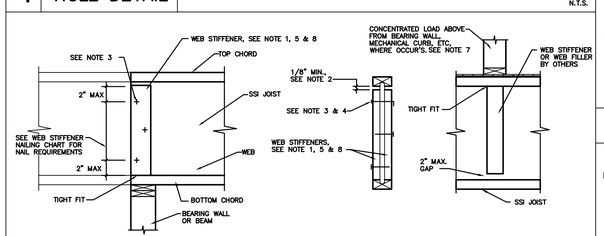
SQUARE HOLES – THE SIDES OF SQUARE HOLES SHALL NOT EXCEED TWO THIRDS THE MAXIMUM ROUND HOLE DIAMETER.

MULTIPLE HOLES – WHERE MORE THAN ONE HOLE IS NECESSARY, THE DISTANCE BETWEEN HOLES MUST EXCEED TWICE THE DIAMETER OF THE LARGEST ROUND HOLE OR TWICE THE SIDE OF THE LARGEST SQUARE HOLE.

SPECIAL – EXCEPTIONS WILL REQUIRE THAT ADDITIONAL SUBSTANTIATING DATA BE FURNISHED TO THE LOCAL BUILDING DEPARTMENT.

4 HOLE DETAIL

N.T.S.



WEB STIFFENER NAILING CHART

JOIST DEPTH	3/8 INCH OSB, 7/16 INCH OSB
16	6–10d
18	8–10d
20	8–10d
22	9–10d
24	10–10d
26	10–10d
28	10–10d
30	10–10d

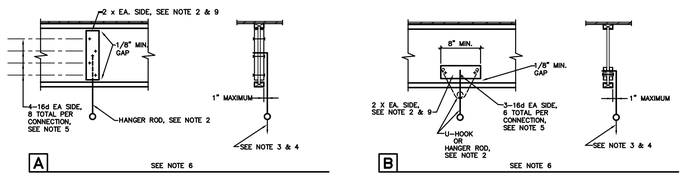
SEE NOTES 6, 7, & 9

NOTES:

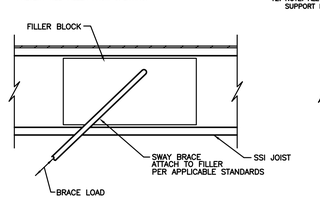
1. STANDARD GRADE OR BETTER, 2x MINIMUM WEB STIFFENERS TO BE USED, AT 3 1/2" WIDE JOISTS. PLYWOOD/OSB TO BE USED AT 1 1/2" AND 2 1/2" WIDE JOISTS. WIDTH OF ALL WEB STIFFENERS TO BE 3 1/2" MINIMUM.
2. THIS DIMENSION MAY BE 1/4" MAXIMUM.
3. USE 10d COMMON NAILS. SEE STRUCTURAL DRAWINGS FOR OTHER NAILING REQUIREMENTS.
4. CLINCH NAILS AT I-JOIST LESS THAN 3" WIDE.
5. TO PREVENT DAMAGE TO I-JOISTS, DO NOT NAIL AGAINST WEB WITHOUT PROPER BACKING.
6. FOR I-JOISTS 14" IN DEPTH AND LESS THAT REQUIRE WEB STIFFENERS, USE NAILING REQUIREMENTS AS SHOWN FOR 16" DEEP I-JOISTS. UNO.
7. INTERMEDIATE WEB STIFFENERS ARE NOT REQUIRED EXCEPT AT LOCATIONS WHERE JOISTS ARE SUPPORTING CONCENTRATED LOADS.
8. WEB STIFFENERS MAY NOT BE REQUIRED. REFER TO JOIST DESIGNS, BILL OF MATERIAL AND/OR PROJECT SPECIFIC DETAILS HEREIN
9. USE 16d NAILS AT 3 1/2 WIDE JOISTS.

5 WEB STIFFENER ATTACHMENT

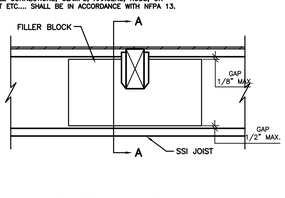
N.T.S.



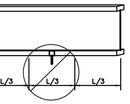
1. DETAILS SHOWN MAY BE USED FOR SIMILAR LOADING SITUATIONS (i.e. DUCT SUPPORT, DRAIN PIPE SUPPORT, ETC.)
2. D.F. STANDARD GRADE OR BETTER WEB FILLER AND HARDWARE BY OTHERS. DETAILS C, E & F ARE LIMITED TO A 2" DIAMETER PIPE AT MAX HANGER SPACING OF 15".
3. I-JOIST CAPACITY MUST BE VERIFIED FOR CONCENTRATED LOADS BEYOND WHAT IS ALLOCATED WITHIN THE DESIGN CRITERIA.
4. CAPACITY OF CONNECTION TO I-JOIST MAY BE INCREASED WITH ADDITIONAL NAILS OR BOLTS. VERIFY CAPACITY OF HARDWARE USED.
5. NAILS USED ARE TO BE COMMON WIRE TYPE. NAILS MAY HAVE TO BE STAGGERED AND OR HOLES PREDRILLED TO PREVENT WEB FILLER FROM SPLITTING.
6. CONNECTION A THRU E MAY BE USED ANYWHERE WITHIN THE JOIST SPAN.
7. CONNECTION F TO BE LOCATED IN OUTER 1/3 OF SPAN.
8. COACH SCREW TO BE INSTALLED INTO PREDRILLED HOLE (DETAIL NOT TO BE USED WITH I-JOIST LESS THAN 2 1/2" WIDE)
9. TO PREVENT DAMAGE TO I-JOIST, DO NOT NAIL AGAINST WEB WITHOUT PROPER BACKING.
10. CEILING FLANGE WITH 2–18 GAUGE (0.294") x 1–1/2" WOOD SCREWS (1/8" PILOT HOLE REQUIRED) OR 2–1/4" x 2" LAG SCREWS (1/8" PILOT HOLE REQUIRED). OFFSET SCREWS AS SHOWN.
11. FOR HIGHER FORCES THAN SHOWN, SEE LONGITUDINAL AND LATERAL SWAY BRACE DETAILS.
12. NOTE: ALL CONNECTIONS, CLAMPS, HANGERS, RODS, OR SUPPORT ETC.... SHALL BE IN ACCORDANCE WITH NFPA 13.



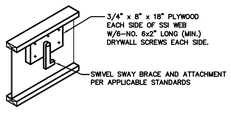
LONGITUDINAL SWAY BRACE

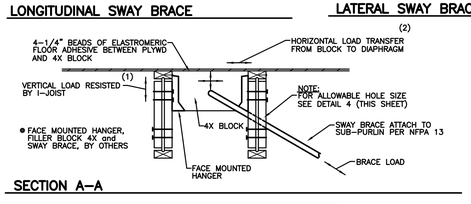


LATERAL SWAY BRACE



NOTE
COACH SCREW TO BE INSTALLED INTO PREDRILLED HOLE AND LOCATED IN OUTER 1/3 OF SPAN.





SECTION A–A

(1) VERTICAL LOAD TO TRUSS TO BE VERIFIED

(2) HORIZONTAL LOAD TRANSFER TO BE VERIFIED BY THE PROJECT DESIGN PROFESSIONAL OF RECORD.

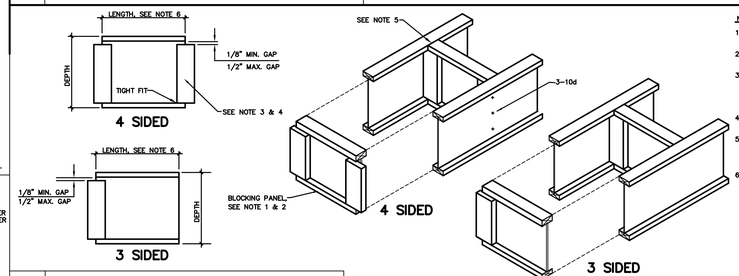
ALLOWABLE HORIZONTAL SEISMIC FORCE (LBS.)		
ANGLE TO VERTICAL		
30°	60°	90°
400	590	630

SEE NOTE #11

FOR FORCES PARALLEL OR PERPENDICULAR TO I–JOISTS

6 FIRE SPRINKLER ATTACHMENT

N.T.S.



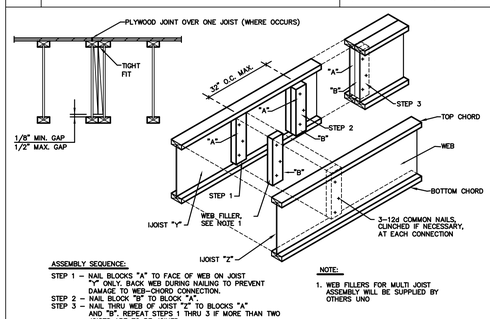
NOTES:

1. 4 SIDED BLOCKING PANELS MAY BE UTILIZED BETWEEN I–JOISTS AT TYPICAL ON CENTER SPACING, UNO.
2. 3 SIDED BLOCKING PANELS MAY BE UTILIZED BETWEEN I–JOISTS AT ODD SPACES, UNO.
3. FOR FIELD ASSEMBLY, ATTACH BLOCKING PANEL ENDS WITH 3–10d NAILS MINIMUM, CLINCHED. SEE STRUCTURAL DRAWINGS FOR OTHER NAILING REQUIREMENTS. CUT BLOCKING PANEL TO LENGTH IN FIELD BEFORE ATTACHING BLOCKING PANEL END.
4. TO PREVENT DAMAGE TO I–JOIST BLOCKING PANEL, DO NOT NAIL AGAINST WEB WITHOUT PROPER BACKING.
5. ATTACH BLOCKING PANELS TO I–JOISTS WITH 3–10d MINIMUM. NAIL THOUGH JOIST WEB INTO EDGE OF BLOCKING PANEL END. SEE STRUCTURAL DRAWINGS FOR OTHER NAILING REQUIREMENTS.
6. A RECOMMENDED 1/16–INCH MINIMUM TOTAL CLEARANCE BETWEEN I–JOISTS CHORDS.

7 3 & 4 SIDED BLOCKING PANEL

(USED AT NON–BEARING, UNO; I.E. MIDSPAN, STRAPS & TIES, ETC.)

N.T.S.



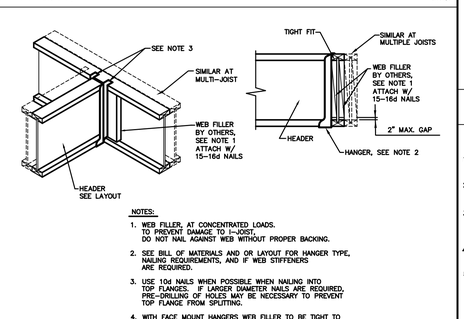
ASSEMBLY SEQUENCE:

STEP 1 – NAIL BLOCKS "A" TO FACE OF WEB ON JOIST "1" ONLY, BACK WEB DURING NAILING TO PREVENT DAMAGE TO WEB–CHORD CONNECTION.
STEP 2 – NAIL BLOCK "B" TO BLOCK "A".
STEP 3 – NAIL THRU WEB OF JOIST "2" TO BLOCKS "A" AND "B". REPEAT STEPS 1 THRU 3 IF MORE THAN TWO JOISTS ARE TO BE JOINED.

NOTE:

1. WEB FILLERS FOR MULTI JOIST ASSEMBLY WILL BE SUPPLIED BY OTHERS UNO

8 MULTI–JOIST ASSEMBLY



NOTES:

1. WEB FILLER, AT CONCENTRATED LOADS. TO PREVENT DAMAGE TO I–JOIST, DO NOT NAIL AGAINST WEB WITHOUT PROPER BACKING.
2. SEE BILL OF MATERIALS AND OR LAYOUT FOR HANGER TYPE, NAILING REQUIREMENTS, AND IF WEB STIFFENERS ARE REQUIRED.
3. USE 10d NAILS WHEN POSSIBLE WHEN NAILING INTO TOP FLANGES. IF LARGER DIAMETER NAILS ARE REQUIRED, PRE–DRILLING OF HOLES MAY BE NECESSARY TO PREVENT TOP FLANGE FROM SPLITTING.
4. WITH FACE MOUNT HANGERS WEB FILLER TO BE TIGHT TO TOP OF BOTTOM FLANGE.

9 HEAD–OUT DETAIL

I JOIST PRODUCT COVER SHEET

1. AN I–JOIST IS AN ENGINEERED WOOD COMPONENT WITH WOOD CHORDS AND A SINGLE WEB OF VARYING THICKNESS, DEPENDING ON REQUIRED DESIGN. THE WEBS ARE GLUED AND INSTALLED BETWEEN THE TWO CHORDS. WEB BUTT JOINTS ARE GLUED TO FORM A CONTINUOUS WEB MEMBER. CONNECTION IS MADE BETWEEN THE WEB AND CHORD BY INSERTING THE WEB INTO SPECIALLY PREPARED GROOVES IN THE CHORDS WHICH ARE LOCATED IN ONE FACE OF THE CHORD. THE PROFILE OR SHAPE OF AN I–JOIST MAY BE CONSTANT OR SINGLE TAPERED.
2. INTERMEDIATE WEB STIFFENERS ARE NOT REQUIRED EXCEPT AT LOCATIONS WHERE JOISTS ARE SUPPORTING CONCENTRATED LOADS. WEB STIFFENERS AT BEARING SUPPORT POINTS MAY NOT BE REQUIRED FOR CERTAIN I–JOISTS DEPTHS AND CONDITIONS. SEE DESIGN CALCULATIONS AND OR DETAILS WITHIN THE PLACEMENT PLAN DRAWINGS AND DETAILS.
3. THE COMPRESSION CHORD MUST BE CONTINUOUSLY LATERALLY SUPPORTED. THE ENDS OF THE JOISTS MUST BE RESTRAINED TO PREVENT ROLL OVER. THIS IS PROVIDED BY DIAPHRAGM SHEATHING ATTACHED TO THE TOP CHORD AND TO AN END WALL OR SHEAR TRANSFER PANELS CAPABLE OF TRANSFERRING A MINIMUM FORCE OF 50 plf. BLOCKING OR CROSS BRIDGING WITH EQUIVALENT STRENGTH MAY BE USED.
4. THE GLUE BOND BETWEEN THE CHORDS AND THE WEB IS CRITICAL TO THE PERFORMANCE OF THE I–JOIST. DO NOT POUND OUTWARD ON THE CHORDS.

JOBSITE HANDLING OF I–JOISTS

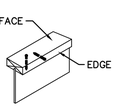
IT IS THE CUSTOMER'S RESPONSIBILITY TO UNLOAD THE I–JOISTS FROM THE TRUCK AND FOR ALL HANDLING THEREAFTER; THE I–JOIST WARANTY ONLY APPLIES SO LONG AS THE PRODUCT IS NOT DAMAGED OR ALTERED IN ANY WAY AND IS INSTALLED IN A WORKMANLIKE MANNER AND ACCORDING TO INSTALLATION INFORMATION NOTED HEREON. I–JOISTS WILL BE DELIVERED TO THE JOBSITE IN BUNDLES BANDED TOGETHER FOR HANDLING. TO AVOID DAMAGE, THEY SHOULD BE KEPT IN THESE BUNDLES UNTIL THEY ARE READY TO BE INSTALLED IN THE STRUCTURE. NEVER HANDLE I–JOISTS FLAT, KEEP IN AN UPRIGHT POSITION.

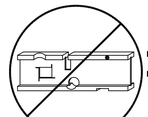
STORAGE OF I–JOISTS

WHILE BEING STORED AT THE JOBSITE, KEEP I–JOISTS IN AN UPRIGHT POSITION. THE BUNDLES SHOULD BE SUPPORTED ON LEVEL STICKERS TO KEEP THE I–JOISTS OUT OF THE MUD AND DIRT. STACKING OF BUNDLES IS PERMITTED IF AN ADEQUATE NUMBER OF STICKERS IS PROVIDED TO PREVENT DAMAGE AND NORMAL SAFETY PRECAUTIONS ARE FOLLOWED.
ALL GLUE USED IN I–JOISTS IS WATER PROOF. I–JOISTS SHOULD RECEIVE THE SAME PROTECTION FROM WEATHER GIVEN OTHER WOOD PRODUCTS. HOWEVER, LONG EXPOSURE TO WATER AND SUN WILL CAUSE SOME DETERIORATION AND CHECKING OF WOOD.

JOIST NAILING CHART

NAIL TYPE		NAIL SIZE	LVL FACE	LVL EDGE
8d	BOX	0.113"X2 1/2"	2"	4"
	COMMON	0.131"X2 1/2"	2"	6"
10d	BOX	0.128"X3"	2"	6"
	COMMON	0.148"X3"	3"	6"
12d	BOX	0.128"X3 1/4"	2"	6"
	COMMON	0.148"X3 1/4"	3"	6"
16d	BOX	0.135"X3 1/2"	3"	6"
	SINKER	0.148"X3 1/4"	3"	6"
	COMMON	0.162"X3 1/2"	4"	6"





■ DO NOT CUT, DRILL OR NOTCH CHORDS
■ DO NOT OVER CUT SQUARE HOLES IN WEB

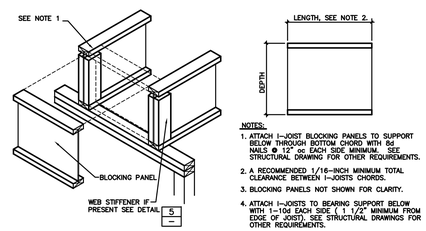
WHERE THE I–JOIST HANGERS ARE SUPPORTED BY PRESSURE TREATED PLATE USE GALVANIZED NAILS.

WARNING:

Drilling, sawing, sanding or machining wood products generates wood dust and other substances known to the State of California to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask or other safeguards for personal protection.

Wood products emit chemicals known to the State of California to cause birth defects or other reproductive harm.

10 GENERAL I–JOIST INFORMATION



NOTES:

1. ATTACH I–JOIST BLOCKING PANELS TO SUPPORT BELOW THROUGH BOTTOM CHORD WITH 8d NAILS @ 12" oc EACH SIDE MINIMUM. SEE STRUCTURAL DRAWING FOR OTHER REQUIREMENTS.
2. A RECOMMENDED 1/16–INCH MINIMUM TOTAL CLEARANCE BETWEEN I–JOISTS CHORDS.
3. BLOCKING PANELS NOT SHOWN FOR CLARITY.
4. ATTACH I–JOISTS TO BEARING SUPPORT BELOW WITH 1–10d EACH SIDE (1 1/2" MINIMUM FROM EDGE OF JOIST), SEE STRUCTURAL DRAWINGS FOR OTHER REQUIREMENTS.

11 2 SIDED BLOCKING PANEL

(USED AT BEARING CONDITIONS, UNO)

GENERAL NOTES:

1. ALL CLOUDED NOTES, DIMENSIONS, ETC. REQUIRED VERIFICATION AND MUST BE MARKED EITHER "OK"OR THE CORRECT INFORMATION PROVIDED.
2. PLEASE BE AWARE THAT ANY CLOUDED ITEMS NOT ACKNOWLEDGED WILL REQUIRE TELEPHONE CALLS TO RESPONSIBLE PARTIES AND AND MAY CAUSE A DELAY IN THE MANUFACTURE OF YOUR ORDER.
3. PLEASE VERIFY THAT ALL INFORMATION PROVIDED HEREWITH REFLECTS THE LATEST AVAILABLE PROJECT INFORMATION AND THAT ALL I–JOIST LENGTHS CORRESPOND WITH ACTUAL FIELD DIMENSIONS.
4. DETAILS SHOW MINIMUM NAILING ALLOWED. REFER TO PROJECT PLANS FOR MORE STRINGENT NAILING REQUIREMENTS.
5. IN PREPARATION OF THESE SHOP DRAWINGS, WE HAVE RELIED UPON PLANS OR SPECIFICATIONS OR OTHER INFORMATION PREPARED BY REPRESENTATIVES OF THE OWNER AND CANNOT BE RESPONSIBLE IF THE INFORMATION FURNISHED IS ERRONEOUS. BUYER OR HIS AGENT SHALL APPROVE THESE SHOP DRAWINGS FOR DIMENSIONS, QUANTITIES, SPECIFICATIONS AND DETAILS.
6. I–JOIST ARE IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE IBC, CBC, AND NATIONAL DESIGN SPECIFICATION AND CONFORM TO A CURRENT ICC–ES REPORT.

LEGEND / ABBREVIATIONS

SEE PROJECT PLANS FOR OTHER ABBREVIATIONS AND SYMBOLS USED.

DETAIL (ON SHOP DRAWINGS)
PROJECT PLAN DETAIL (PER PLANS)
START I–JOIST LAYOUT @ o/c SPACING
DIRECTION OF ROOF SLOPE

FMBO = FRAMING MATERIAL BY OTHERS

VIF = VERIFY IN FIELD
NIC = NOT IN CONTRACT
UNO = UNLESS NOTED OTHERWISE
FSML = FIRE SPRINKLER MAIN LINE
LBS = POUNDS
PSF = POUNDS PER SQUARE FOOT
PLF = POUNDS PER LINEAL FOOT
MFR. = MANUFACTURER
> = GREATER THAN, (< = LESS THAN)
o/c, O.C. = ON CENTER (SPACING)
BOM = BILL(S) OF MATERIAL (8 1/2 x 11 SHEETS)
DBL = DOUBLE MEMBER (TPL = TRIPLE MEMBER)

REVISIONS

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-	-
-	-
-	-

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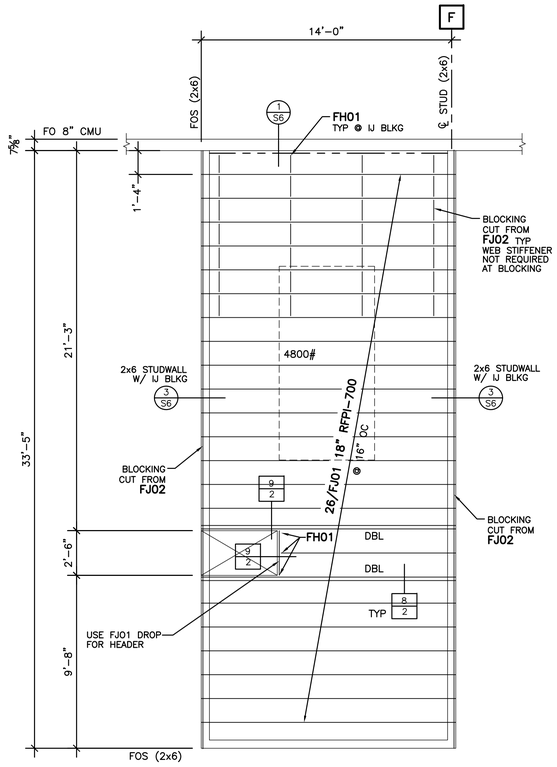
SHEET 2 OF 5



EQUIPMENT PLATFORM PRODUCT PLACEMENT PLAN

(REF: S3)

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

DESIGN LOADS

	FLOOR	
LIVE LOAD	50	PSF
PART LOAD	-	PSF
DEAD LOAD	8	PSF
TOTAL LOAD	58	PSF

DESIGN DEFLECTION:
$\triangle_{LL} \leq L/360$ $\triangle_{TL} \leq L/240$
LOAD DURATION FACTOR = 1.0
DESIGN CODE: CBC 2016

PROJECT PLANS USED :	
SHEETS	DATE
ARCHITECTURAL DRAWINGS	
A-0.0 THRU A-7.3	07/27/17 ⚠2
STRUCTURAL DRAWINGS	
S1 THRU S12	07/27/17 ⚠1

NOTE: MISC WEB STIFFENERS/FILLERS/ BACKERS ARE BY OTHERS TYPICAL

NOTE: SPRINKLER LINES GREATER THAN 3" DIAMETER HAVE NOT BEEN CONSIDERED IN THE TRUSS DESIGNS

ROSEBURG FOREST PRODUCTS
I-JOIST ESR-1251

QTY	MARK	DESCRIPTION	LENGTH	
26	FJ01	18" RFPI-700	15'-0"	FABE WS01
9	FJ02	18" RFPI-700	12'-0"	(FIELD CUT BLKG)

FABE=field attach both ends

KC METALS CONNECTORS ESR-2930

QTY	MARK	DESCRIPTION	NAILING		REMARKS
			HEADER	JOIST	
59	FH01	MTR3518	6-10d x 1½	2-10d x 1½	SINGLE

WEB STIFFENERS

QTY	MARK	DESCRIPTION	LENGTH
108	WS01	PLY 7/8 x 3 1/2	1'-2 3/4"

REVISIONS
⚠2 2-27-18 Per approved drawings and G2 review
⚠1 -
⚠ -
⚠ -
⚠ -
⚠ -

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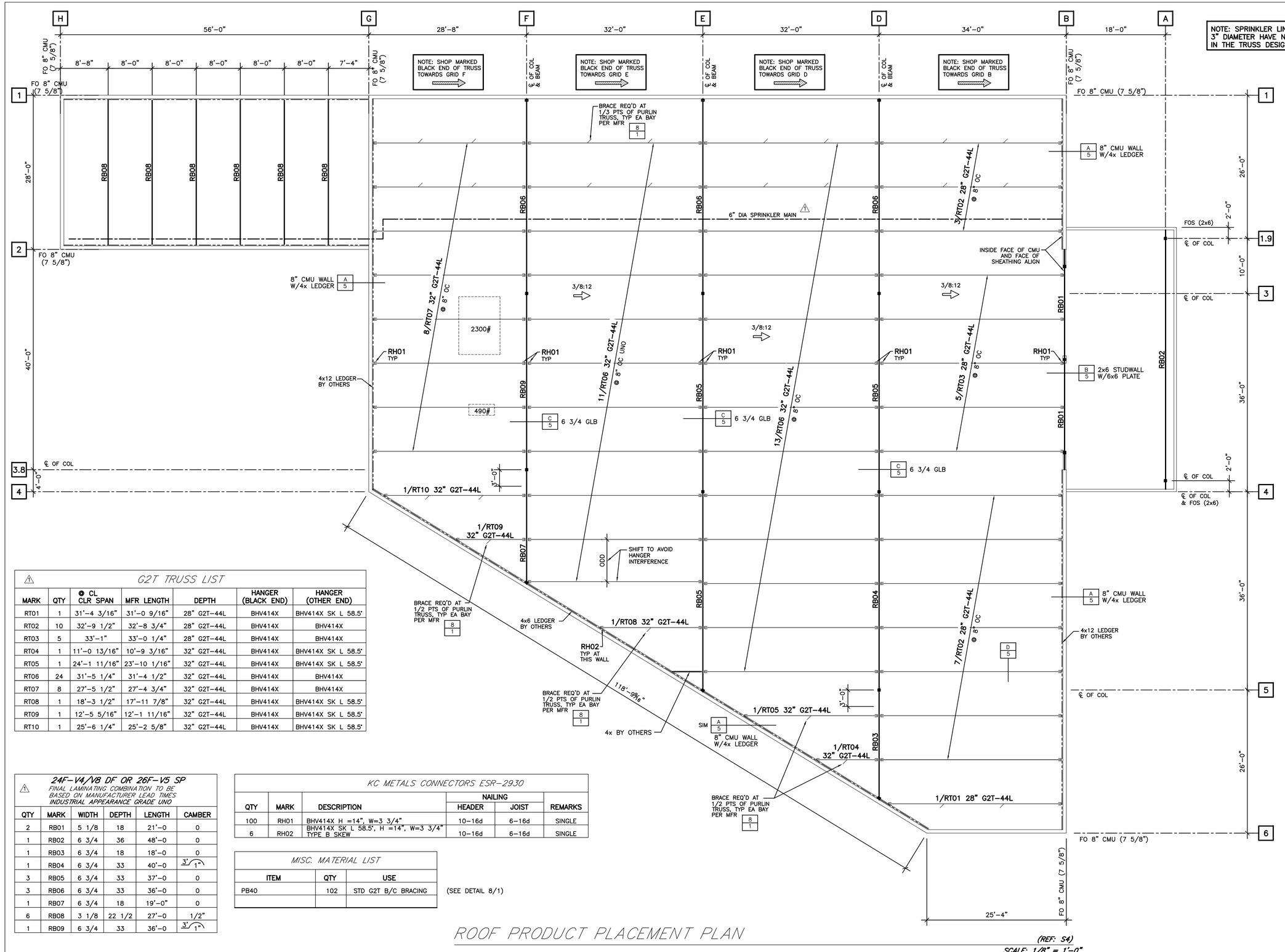

NOTE: SPRINKLER LINES GREATER THAN 3" DIAMETER HAVE NOT BEEN CONSIDERED IN THE TRUSS DESIGNS

DESIGN LOADS

	ROOF	
LIVE LOAD	20	PSF
PART LOAD	-	PSF
DEAD LOAD	16.8	PSF
TOTAL LOAD	36.8	PSF

DESIGN DEFLECTION:
$\triangle_{LL} \leq L/240$ $\triangle_{TL} \leq L/180$

LOAD DURATION FACTOR = 1.25
DESIGN CODE: CBC 2016
DEAD LOAD BREAKDOWN: 14 PSF TC, 2.8 PSF BC
115 MPH WIND, EXP. C (ULT)
NET WIND UPLIFT: 10 PSF

– ROOF LIVE LOAD REDUCIBLE PER CODE.
– ADDITIONAL 800# MISC POINT LOAD OCCURRING AT ANY ONE TOP CHORD PANEL POINT ALONG THE SPAN, CONCURRENT WITH UNIFORM DEAD LOAD AND LIVE LOAD ONLY.
– SOLAR ZONE ALLOWANCE IS INCLUDED IN THE DESIGN CRITERIA
– DEAD LOAD INCLUDES 3 PSF MECH EQUIP
– A SINGLE POINT LOAD COMPRISED OF 250 LBS PLUS THE WEIGHT OF THE WATER FILLED SPRINKLER PIPE SHALL BE INCORPORATED INTO THE DESIGN OF EACH TRUSS AND DOES NOT ACT SIMULTANEOUSLY WITH THE ROOF LIVE LOAD

PROJECT PLANS USED :

SHEETS	DATE
ARCHITECTURAL DRAWINGS	
A-0.0 THRU A-7.3	07/27/17 ⚠2
STRUCTURAL DRAWINGS	
S1 THRU S12	07/27/17 ⚠2

⚠2 G2T TRUSS LIST

MARK	QTY	℄ CL CLR SPAN	MFR LENGTH	DEPTH	HANGER (BLACK END)	HANGER (OTHER END)
RT01	1	31'-4 3/16"	31'-0 9/16"	28" G2T-44L	BHV414X	BHV414X SK L 58.5'
RT02	10	32'-9 1/2"	32'-8 3/4"	28" G2T-44L	BHV414X	BHV414X
RT03	5	33'-1"	33'-0 1/4"	28" G2T-44L	BHV414X	BHV414X
RT04	1	11'-0 13/16"	10'-9 3/16"	32" G2T-44L	BHV414X	BHV414X SK L 58.5'
RT05	1	24'-1 11/16"	23'-10 1/16"	32" G2T-44L	BHV414X	BHV414X SK L 58.5'
RT06	24	31'-5 1/4"	31'-4 1/2"	32" G2T-44L	BHV414X	BHV414X
RT07	8	27'-5 1/2"	27'-4 3/4"	32" G2T-44L	BHV414X	BHV414X
RT08	1	18'-3 1/2"	17'-11 7/8"	32" G2T-44L	BHV414X	BHV414X SK L 58.5'
RT09	1	12'-5 5/16"	12'-1 11/16"	32" G2T-44L	BHV414X	BHV414X SK L 58.5'
RT10	1	25'-6 1/4"	25'-2 5/8"	32" G2T-44L	BHV414X	BHV414X SK L 58.5'

⚠2 24F-V4/V8 DF OR 26F-V5 SP

FINAL LAMINATING COMBINATION TO BE BASED ON MANUFACTURER LEAD TIMES
INDUSTRIAL APPEARANCE GRADE UNO

QTY	MARK	WIDTH	DEPTH	LENGTH	CAMBER
2	RB01	5 1/8	18	21'-0	0
1	RB02	6 3/4	36	48'-0	0
1	RB03	6 3/4	18	18'-0	0
1	RB04	6 3/4	33	40'-0	3'/1"
3	RB05	6 3/4	33	37'-0	0
3	RB06	6 3/4	33	36'-0	0
1	RB07	6 3/4	18	19'-0"	0
6	RB08	3 1/8	22 1/2	27'-0	1/2"
1	RB09	6 3/4	33	36'-0	3'/1"

KC METALS CONNECTORS ESR-2930

QTY	MARK	DESCRIPTION	NAILING HEADER	NAILING JOIST	REMARKS
100	RH01	BHV414X H =14", W=3 3/4"	10-16d	6-16d	SINGLE
6	RH02	BHV414X SK L 58.5', H =14", W=3 3/4" TYPE B SKEW	10-16d	6-16d	SINGLE

MISC. MATERIAL LIST

ITEM	QTY	USE
PB40	102	STD G2T B/C BRACING

(SEE DETAIL 8/1)

ROOF PRODUCT PLACEMENT PLAN

(REF: S4)
SCALE: 1/8" = 1'-0"

REVISED FOR CONSTRUCTION

REVISIONS
⚠2 2-27-18 per approved drawings and G2 Review
⚠1 -
⚠ -
⚠ -
⚠ -

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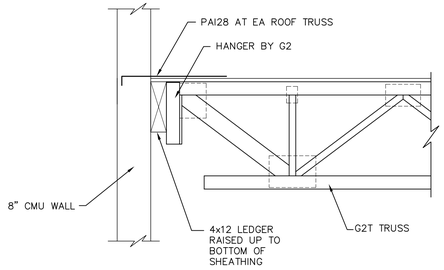

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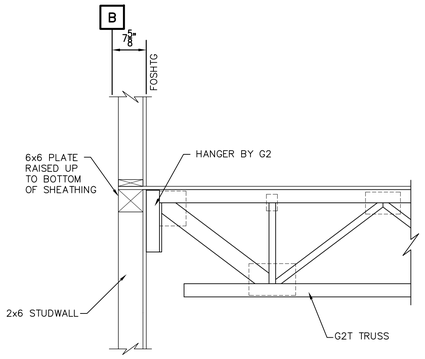

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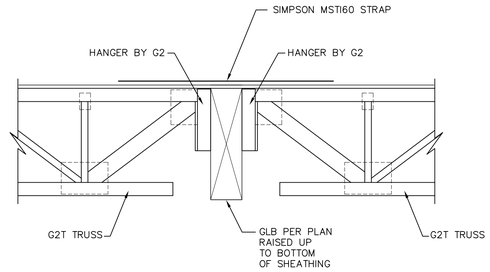

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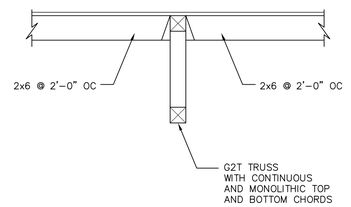

REF: 4/S10 — D

REVISIONS

1	12-14-17 Per approved drawings
2	-
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4	-
5	-

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