


ROOF FRAMING PLAN - PART 4
 SCALE: 1/8" = 1'-0"


- ROOF FRAMING PLAN NOTES:**
- ② DENOTES 22 GAUGE 1 1/2" B WIDE RIB STEEL ROOF DECK.
 MINIMUM DECK PROPERTIES:
 $I_x = 0.153 \text{ IN}^4/\text{FT}$
 $I_y = 0.183 \text{ IN}^4/\text{FT}$
 $S_x = 0.189 \text{ IN}^3/\text{FT}$
 $S_y = 0.192 \text{ IN}^3/\text{FT}$
 - ③ DENOTES 20 GAUGE 2" DEEP ACOUSTICAL DOVE TAIL TYPE ROOF DECK. BASIS OF DESIGN IS VERSA-DEK S ACOUSTICAL ROOF DECK.
 MINIMUM DECK PROPERTIES:
 $I_x = 0.469 \text{ IN}^4/\text{FT}$
 $I_y = 0.357 \text{ IN}^4/\text{FT}$
 $S_x = 0.336 \text{ IN}^3/\text{FT}$
 $S_y = 0.336 \text{ IN}^3/\text{FT}$
 - ④ DENOTES 16 GAUGE 3" N STEEL ROOF DECK W/ ACOUSTICAL FILL (SEE ARCH FOR EXTENTS OF FILL).
 MINIMUM DECK PROPERTIES:
 $I_x = 1.893 \text{ IN}^4/\text{FT}$
 $I_y = 1.893 \text{ IN}^4/\text{FT}$
 $S_x = 0.944 \text{ IN}^3/\text{FT}$
 $S_y = 0.944 \text{ IN}^3/\text{FT}$
 - ⑤ DENOTES 16 GAUGE 3" N STEEL ROOF DECK.
 MINIMUM DECK PROPERTIES:
 $I_x = 1.893 \text{ IN}^4/\text{FT}$
 $I_y = 1.893 \text{ IN}^4/\text{FT}$
 $S_x = 0.944 \text{ IN}^3/\text{FT}$
 $S_y = 0.944 \text{ IN}^3/\text{FT}$
- PROVIDE STANDARD HORIZONTAL BRIDGING PER S.J.I.
 - SEE WATER PENETRATION SCHEDULE ON SHEET S-040 FOR ALL PIPING SUPPORTED FROM ROOF STRUCTURE. NOTIFY EOR IF PIPING WEIGHT IS IN EXCESS OF THOSE NOTED IN SCHEDULE.
 - DO NOT SUPPORT MULTIPLE SPRINKLER MAINS FROM THE SAME JOIST. CONTRACTOR TO PROVIDE SPRINKLER DRAWINGS TO STRUCTURAL ENGINEER AND JOIST MANUFACTURER FOR REVIEW AND COORDINATION PRIOR TO JOIST FABRICATION.
 - MAX DEPTH OF PONDING AT LOWEST POINT OF ROOF SHALL NOT EXCEED 4" UNDER PEAK INTENSITY STORM.
 - "CB" DENOTES 4" O' LG (MIN) COL BRACE L4x4x3/8 @ JOIST SPA LESS THAN 6'-0". L5x5x3/8 @ JOISTS SPA GREATER THAN 6'-0". WELD BRACE TO COL CAP PL & TOP CHORD OF JOIST OR TOP FLANGE OF BEAM W/ 3/8" FILET WELD @ 2' O' LG. USE 2" ANGLES @ T-SHAPED AREAS. WELD DECK TO EA ANGLE W/ 3/4" PUDDLE WELDS @ 6" O.C. LOCATE @ ALL COLS W/ FRAMING CONN IN ONLY (1) -DIRECTION.
 - □ □ DENOTES SHEAR WALL (SEE S-3.31).
 - "x" @ END OF BEAMS DENOTES MINIMUM UNFACTORED (ASD) REACTIONS FOR CONNECTION DESIGN. IF REACTION IS NOT SHOWN, DESIGN FOR 20 K.
 - DENOTES MOMENT CONNECTION. FABRICATOR SHALL SUBMIT MOMENT CONNECTION CALCULATIONS, SIGNED & SEALED BY A LICENSED STRUCTURAL PROFESSIONAL, WITH SHOP DRAWINGS. CONNECTION SHALL BE DESIGNED FOR FORCES INDICATED ON PLAN AND IN ELEVATIONS. (SEE NOTE 10). (SEE REFERENCE DETAILS 7/5-5.11 & 8/5-5.11 & 8/5-4.11). IF MOMENT NOT SHOWN ON PLANS, DESIGN FOR LOADS LISTED BELOW:
 MOMENT: 20 K-FT
 SHEAR: 20 K
 - SLOTTED HOLES @ BEAM END CONNECTIONS ARE NOT ALLOWED FOR BEAMS ASSOCIATED W/ A BRACE OF MOMENT FRAME, OR NOTED WITH A REQUIRED AXIAL CONNECTION FORCE, UNLESS NOTED OTHERWISE.
 - FOR BRACING @ TOP OF INT CMU PARTITION WALLS ON ELEV SLAB SEE DETAILS 4/5-5.12 & 5/5-5.12 & 1/5-5.13. INT CMU PARTITIONS ON ELEV SLABS SHALL BE REIN W/ #5 @ 4" (TYP UNO). VERT DOVELS SHALL BE DRILLED & EPOXIED 3" INTO ELEVATED SLAB.
 - "BB" DENOTES BEAM BOTTOM FLANGE BRACE (SEE 6/5-5.11). SPACE EQUALLY ALONG BEAM BETWEEN COLS (UNO).
 - SEE 1/5-5.11 FOR TYP ROOF OPGN DECK SUPPORT FRAMING. SUPPORT FRAMING, FINAL ROOF OPGN DIMENSIONS AND LOCATIONS SHALL BE VERIFIED BY GC AND COORDINATED W/ THE FINAL RTU SUBMITTAL.
 - SEE 4/5-5.11 FOR TYP JOIST CHORD SUPPORT.
 - SEE 1/5-5.12 FOR TYP EQUIPMENT CURB SUPPORT FRAMING. RTU WEIGHTS AS SHOWN ON PLAN INCLUDE CURB WEIGHTS. ALL FINAL RTU WEIGHTS SHALL BE CONFIRMED W/ ACTUAL EQUIPMENT PROVIDED AND COORDINATED W/ STEEL JOIST AND STEEL FRAMING SUBMITTALS.
 - "S" DENOTES SLOPING ROOF BEAM. T&STEEL - DECK BRG (TYP UNO).
 - T& DENOTES STEEL TRUSS MARK (SEE ELEVATIONS ON S-6.11).
 - (B) DENOTES BEAM BENT.
 - POINT LOADS DUE TO BASKETBALL GOALS SHALL BE VERIFIED & COORDINATED W/ PES & JOIST MANUF ONCE FINAL DESIGN IS RECEIVED PRIOR TO JOIST FABRICATION (TYP). BASKETBALL GOAL MANUF SHALL VERIFY & PROVIDE VERTICAL & HORIZONTAL LOADS FROM BASKETBALL GOAL DUE TO FOLDING OPERATION AND PLAYER USE. NOTE THAT POINT LOADS DUE TO BASKETBALL GOALS ARE BOTTOM CHORD. BASKETBALL POINT LOADS SHOWN ON PLAN SHALL BE APPLIED IN BOTH THE VERTICAL AND HORIZONTAL DIRECTION. IT IS RECOMMENDED FOR THE BASKETBALL GOAL CONNECTION TO BE MADE CONCENTRIC TO THE JOIST BOTTOM CHORD (CONNECTION BY BASKETBALL GOAL MANUF).
 - W6x15 JUNIOR BEAMS SHALL BE PROVIDED FOR ELECTRICAL HOIST SUPPORT FROM JOISTS. POINT LOADS FROM HOIST JUNIOR BEAMS SHALL BE APPLIED ON BOTTOM CHORD OF JOIST. POINT LOADS SHALL BE VERIFIED W/ FINAL EQUIP SELECTED PRIOR TO JOIST FABRICATION (SEE ELECTRICAL FOR HOIST INFO/ITP).
 - "L" DENOTES 120# POINT LOAD DUE TO THEATER CURTAINS. POINT LOAD DUE TO THEATER CURTAINS SHALL BE APPLIED ON BOTTOM CHORD OF JOIST. POINT LOADS SHALL BE VERIFIED W/ FINAL EQUIP SELECTED PRIOR TO JOIST FABRICATION.
 - SEE ARCHITECTURAL DRAWINGS FOR CANOPY INFORMATION. CANOPIES SHALL BE ATTACHED TO PRECAST PANELS USING POST-INSTALLED ANCHORS OR PRECAST MANUF SHALL PROVIDE EMBED PLATES FOR CANOPY ATTACHMENT. GC SHALL COORDINATE CANOPY DETAILS W/ PRECAST MANUFACTURER PRIOR TO SUBMITTING SHOP DRAWING TO ARCHITECT FOR REVIEW.



ARCHITECTURE
PLANNING
FACILITIES DESIGN

CHAPMAN GRIFFIN LANIER SUSSENBACH ARCHITECTS
2017

RELEASED FOR CONSTRUCTION



REGISTERED PROFESSIONAL ENGINEER
STATE OF GEORGIA
NO. 30092
EXPIRES 12/31/2018

11/01/2018

DATE	NO.	DESCRIPTION
06/19/18		SIZE CONSTRUCTION DOCUMENTS
09/17/18		DESIGN CHECK - REV/ PERMIT SET
10/19/18		FINAL GIVE SUBMITTAL ISSUED FOR PROPOSALS

ROOF FRAMING PLAN - PHASE 3 - AUDITORIUM/GYMNASIUM ADDITION

5900 RAIDER DRIVE NW SANDY SPRINGS, GA 30328
 FULTON COUNTY SCHOOLS RFP NO. XXX-XX

PROJECT NO. 0217302.00

DATE: 09/17/18

DRAWN BY: RAS
 CHECKED BY: ACS

SCALE: 1/8" = 1'-0"

S-2.44