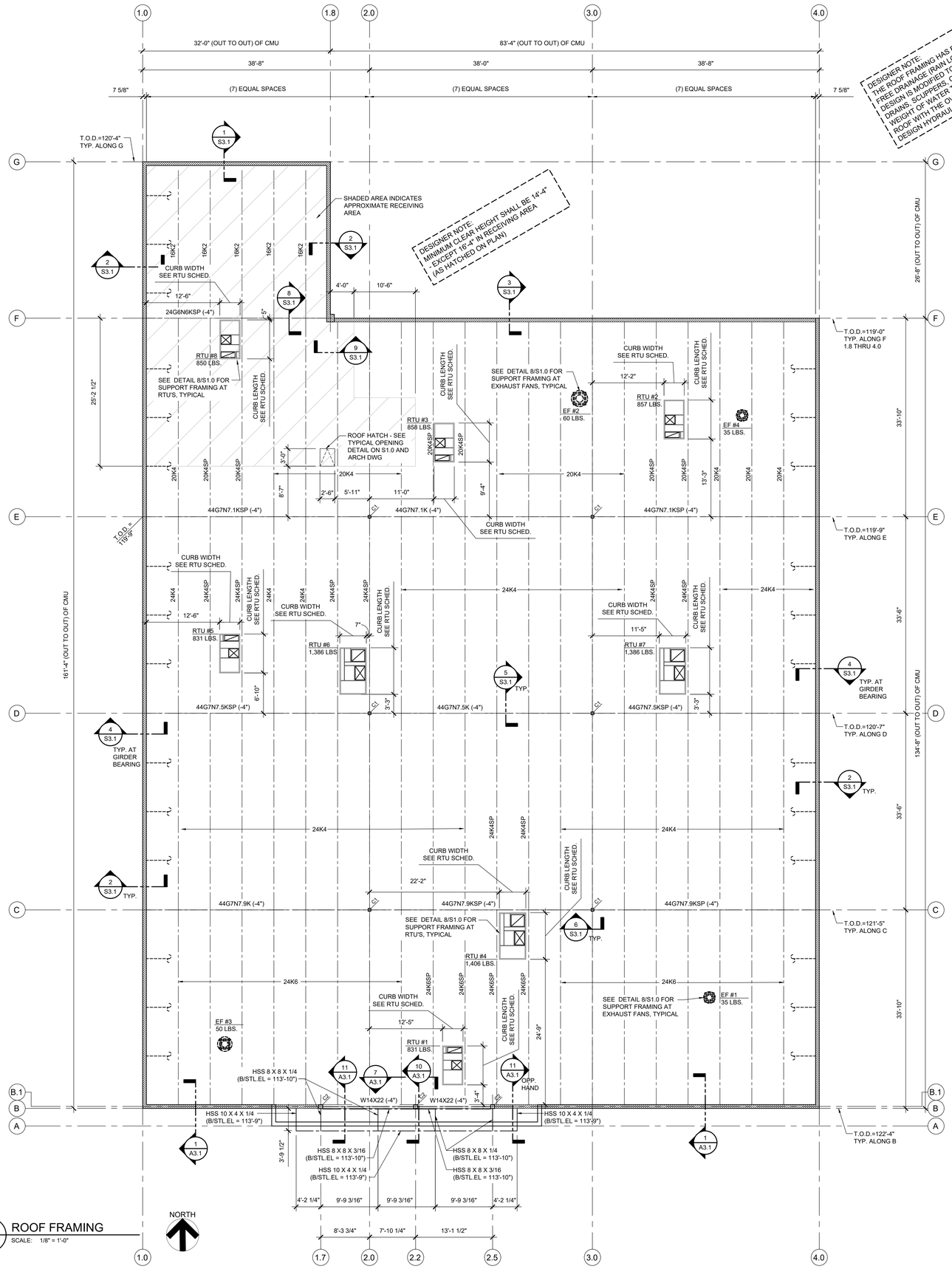

1 S3.0 ROOF FRAMING
SCALE: 1/8" = 1'-0"

ROOF FRAMING NOTES

1. SEE SHEET S1.0 FOR STRUCTURAL NOTES AND TYPICAL DETAILS.
2. T.O.D. = TOP OF DECK. BEAMS AND JOIST GIRDERS REFERENCED ± FROM TOP OF DECK (U.N.O.).
3. METAL ROOF DECK SHALL BE 22 GAGE, 36" WIDE, 1 1/2" DEEP, WIDE RIB ROOF DECK AND SHALL BE CONNECTED TO FRAMING MEMBERS AS FOLLOWS: (DIAPHRAGM SHEAR = 152 PLF)
   A. TO ALL TRANSVERSE SUPPORTS, 5/8" Ø PUDDLE WELDS, 3 PER SHEET.
   B. TO ALL SUPPORTS PARALLEL TO FLUTES, 5/8" Ø PUDDLE WELDS, AT 12" O.C.
   C. SIDE SEAMS, #10 SCREWS (BUILDEX), 2 PER SPAN.
4. STEEL JOISTS IDENTIFIED ON PLAN AS "SP" SHALL BE DESIGNED FOR THE UNIFORM LOAD CAPACITY (AS SPECIFIED IN THE SJI STANDARD LOAD TABLES) IN ADDITION TO THE CONCENTRATED LOADS SHOWN ON THE PLAN. STEEL JOIST GIRDERS IDENTIFIED ON PLAN AS "SP" SHALL BE DESIGNED FOR THE UNIFORM PANEL POINT LOADS SHOWN ON THE DRAWINGS IN ADDITION TO THE CONCENTRATED LOADS SHOWN ON PLAN. ALL ITEMS SUCH AS MECHANICAL EQUIPMENT, DUCT WORK, PIPES, CEILINGS, FIXTURES, ETC. THAT ARE TO BE SUPPORTED OR HUNG FROM THE STEEL JOIST SHALL BE FRAMED WITH AUXILIARY FRAMING TO THE PANEL POINTS OF THE JOIST (SEE TYPICAL JOIST LOAD STRUT - SHEET S1.0). METHODS OF FRAMING THAT INDUCE BENDING TO THE JOIST CHORD OR WEB MEMBERS WILL NOT BE PERMITTED. COORDINATE BRIDGING LOCATIONS SO AS NOT TO INTERFERE WITH ANY MECHANICAL EQUIPMENT.

ROOF DEAD LOADS:

ROOF MEMBRANE AND INSULATION	=	1.0	PSF
METAL DECK	=	2.0	PSF
JOISTS	=	2.0	PSF
GIRDERS	=	2.0	PSF
MECHANICAL/ELECTRICAL/PLUMBING/FIRE PROTECTION	=	2.0	PSF
COLLATERAL	=	7.0	PSF
TOTAL DEAD LOAD	=	16.0	PSF

ROOF LIVE LOADS:

METAL DECK/JOISTS	=	20.0	PSF
JOIST GIRDERS/BEAMS/COLUMNS/FOOTINGS			
TRIBUTARY AREA 0 TO 200 SQ. FT.	=	20.0	PSF
TRIBUTARY AREA 201 TO 600 SQ. FT.	=	20(1.2-0.001At)	PSF
TRIBUTARY AREA OVER 600 SQ. FT.	=	12.0	PSF

FLAT ROOF SNOW LOADS: (INCLUDES RAIN ON SNOW SURCHARGE)

METAL DECK/JOISTS	=	8.5	PSF + DRIFT
JOIST GIRDERS/BEAMS/COLUMNS/FOOTINGS	=	8.5	PSF + DRIFT

UPLIFT DUE TO WIND:

GROSS UPLIFT:

JOIST GIRDERS/BEAMS/COLUMNS/FOOTINGS	=	13.6	PSF
METAL DECK/JOISTS (TYPICAL)	=	16.9	PSF
METAL DECK/JOISTS (WITHIN 10' OF ROOF EDGE)	=	20.1	PSF

NET UPLIFT: (0.6D - 0.6W)

JOIST GIRDERS	=	8.2	PSF
JOISTS (TYPICAL)	=	12.7	PSF
JOISTS (WITHIN 10' OF ROOF EDGE)	=	15.9	PSF

COLUMN SCHEDULE

MARK	SIZE	BASEPLATE	ANCHOR RODS	EMBEDMENT
C1	HSS6x6x1/4	14x14x3/4	(4) 3/4 Ø	12"
C2	HSS8x8x1/4	10x16x3/4*	(4) 3/4 Ø	8"

NOTE: SEE SHEET S1.0 FOR TYPICAL COLUMN BASE DETAIL.

* SEE DETAIL 3/S2.1 FOR BASEPLATE INFORMATION.

RTU SCHEDULE

RTU#	CURB WIDTH	CURB LENGTH	TOTAL WEIGHT (LBS)	RTU JOIST LOAD * (LBS)
1	3'-5 1/2"	6'-7 3/4"	831	300
2	3'-5 1/2"	6'-7 3/4"	857	300
3	3'-5 1/2"	6'-7 3/4"	858	300
4	4'-6 1/4"	7'-11 3/8"	1406	450
5	3'-5 1/2"	6'-7 3/4"	831	300
6	4'-6 1/4"	7'-11 3/8"	1386	450
7	4'-6 1/4"	7'-11 3/8"	1386	450
8	3'-5 1/2"	6'-7 3/4"	850	300

NOTE: VERIFY ALL LOADS, LOCATIONS, CURB SIZES AND OPENING SIZES WITH MECHANICAL CONTRACTOR PRIOR TO FABRICATION. SEE TYPICAL RTU SUPPORT ON S1.0 FOR FRAMING.

* RTU JOIST LOAD: CONCENTRATED JOIST LOADS SHALL BE APPLIED TO EACH SPECIAL JOIST AT THE RTU CURB CORNER LOCATIONS IDENTIFIED ON PLAN.

* * ADD CONCENTRATED LOAD OF 1.5 TIMES THE RTU JOIST LOAD TO EACH JOIST GIRDER AT EACH JOIST SUPPORTING AN RTU IDENTIFIED ON PLAN.

NOTE

ALL JOISTS, JOIST GIRDERS, AND DECKING ARE TO BE PURCHASED THROUGH THE REQUIRED VENDOR. SEE REQUIRED VENDOR LIST ON F2.0.

TENANT:

PETSMART
19601 North 27th Avenue
Phoenix, Arizona 85027 - (623) 580-6100

PROJECT:

16K 2025 US INSTRUCTION SET

FEBRUARY 12, 2025

ARCHITECT:

CONSULTANT:

SEAL:

CITY SEAL:

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ISSUED FOR:

#	DESCRIPTION	DATE

PROJECT NO: 16K 2025 US INSTRUCTION SET

ORIGINAL SCALE: AS INDICATED

DRAWN BY: XXX

CHECKED BY: XXX

PAGE #: 28 OF: 47

IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE 1"

DISCIPLINE: STRUCTURAL

TITLE: ROOF FRAMING PLAN

SHEET NUMBER: **S3.0**