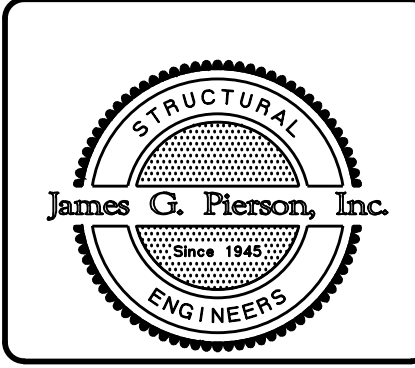




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Drawn By:	BS
Chkd By:	-
DSN By:	PRG

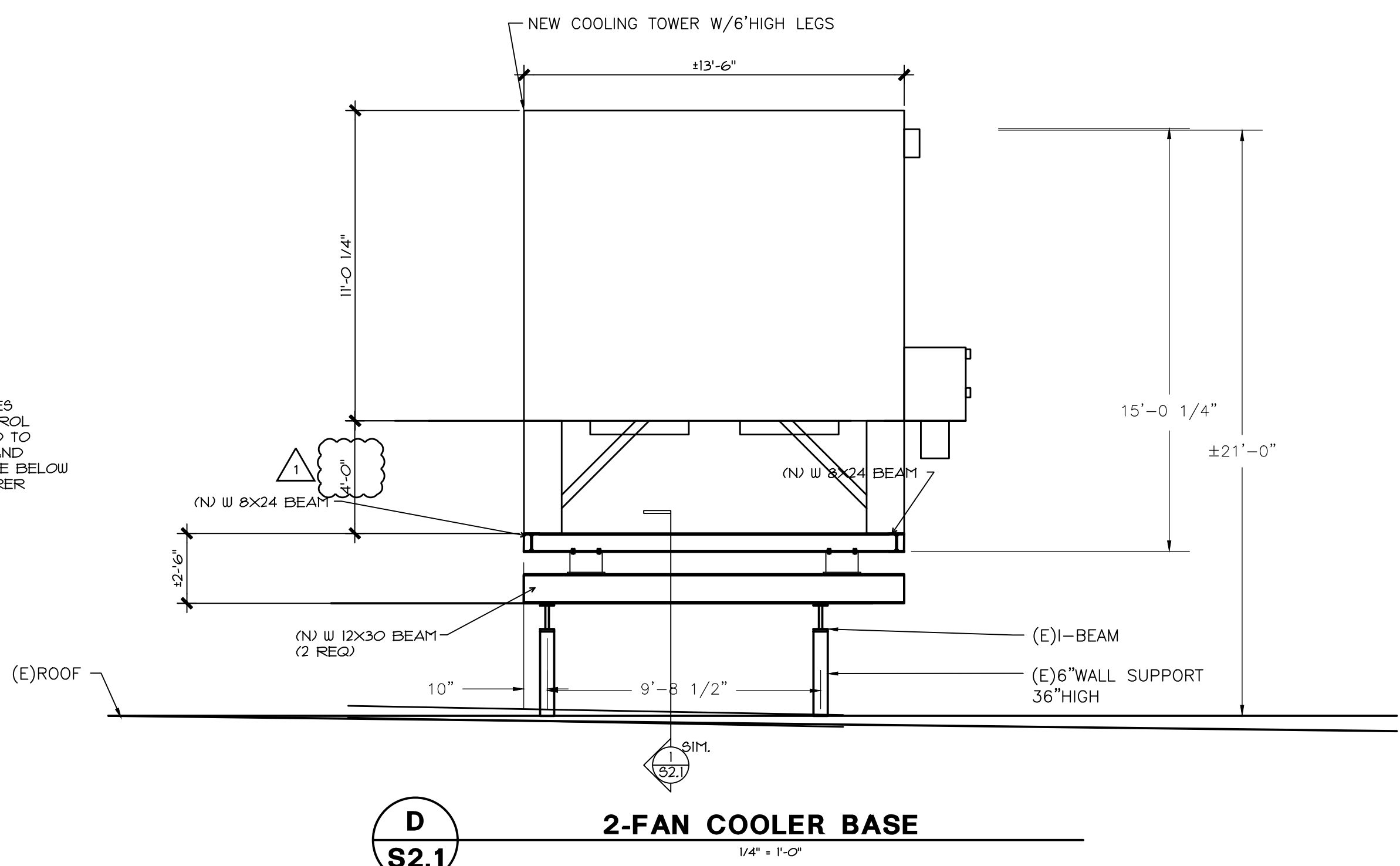
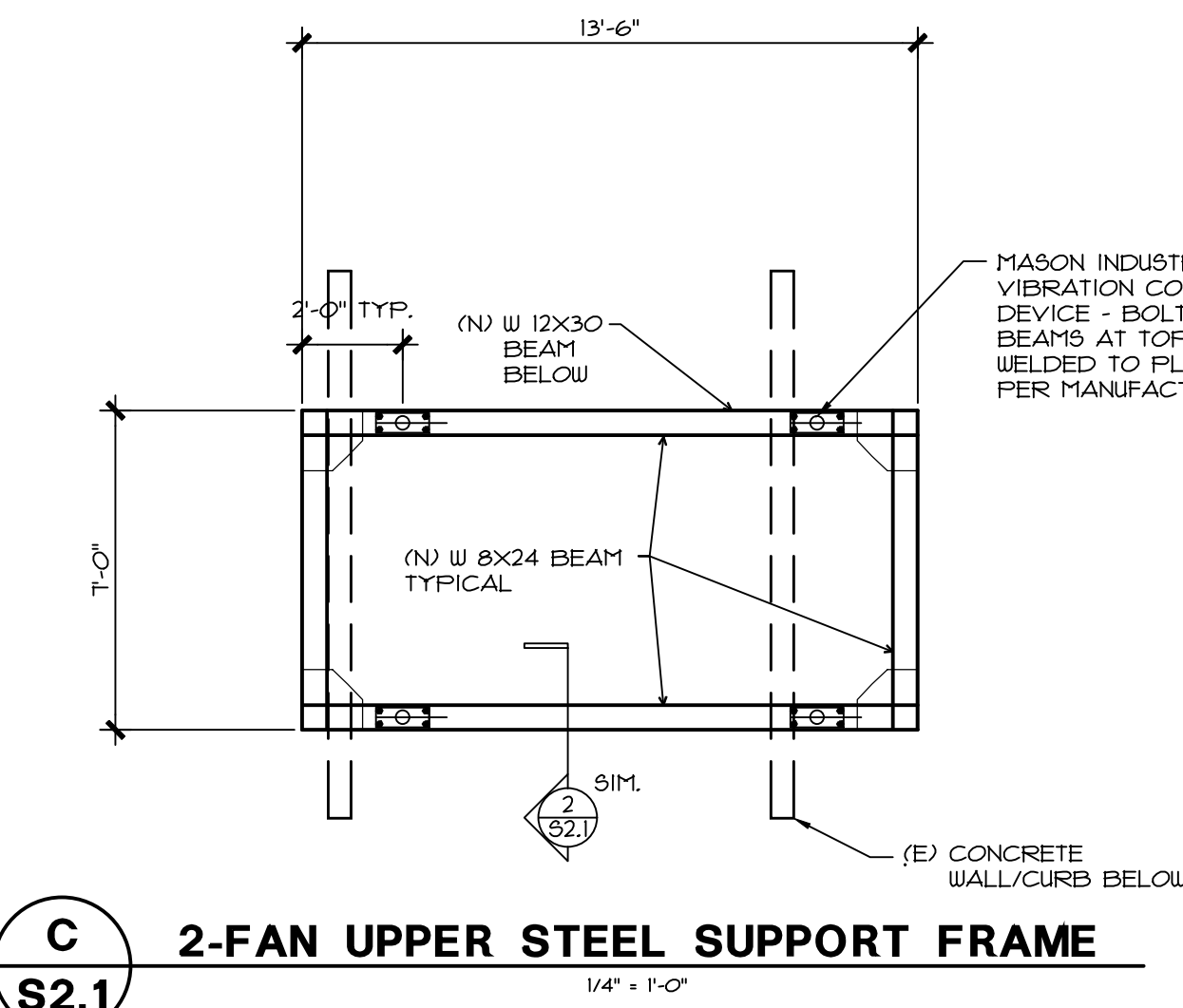
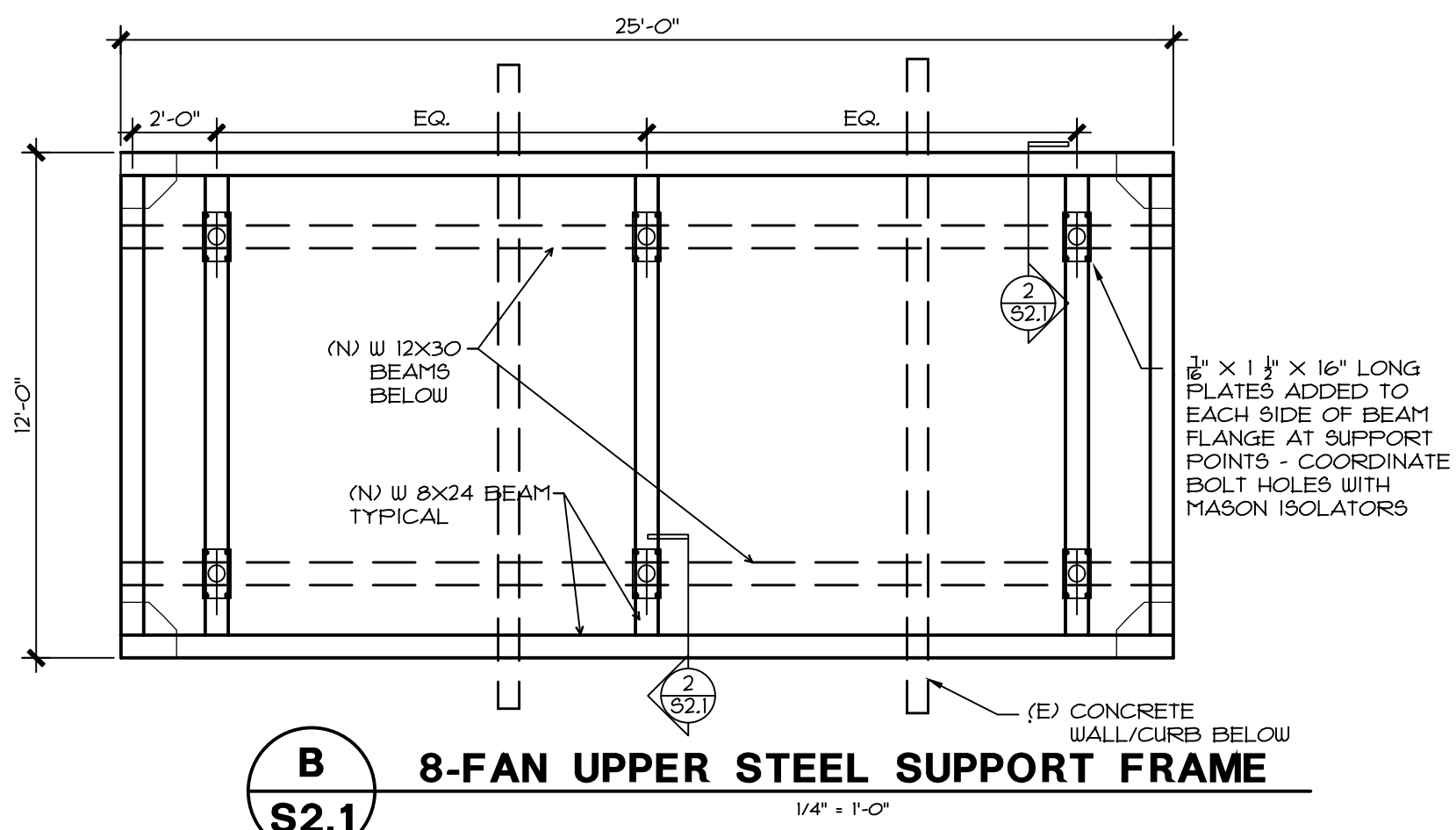
OREGON CONVENTION CENTER
CHILLER PLANT REDESIGN
777 NE Martin Luther King Jr Blvd, Portland, OR 97232
STEEL SUPPORT FRAME

Issuance
PERMIT SET
Date:
JUNE 05, 2018



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SHEET
S2.1



GENERAL STRUCTURAL NOTES

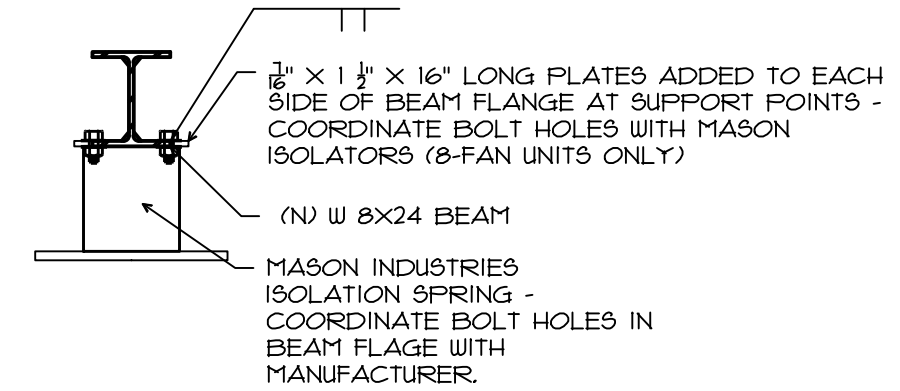
THESE NOTES SHALL STIPULATE THE MINIMUM STANDARDS OF CONSTRUCTION, AND THE DRAWINGS SHALL GOVERN OVER THE NOTES IN ALL MATTERS SPECIFICALLY STATED. VERIFY DIMENSIONS AND EXISTING CONDITIONS, AND NOTIFY ARCHITECT OR ENGINEER OF DISCREPANCIES BEFORE PROCEEDING. THE CONTRACTOR IS RESPONSIBLE FOR SAFE CONDITIONS AT THE JOBSITE, AND FOR TEMPORARY SUPPORT OF THE BUILDING PRIOR TO THE COMPLETION OF THE VERTICAL AND LATERAL LOAD SYSTEMS. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE.

DESIGN LOADS:
2-FAN COOLER = 9410 LBS + 1000 LB CURB
8-FAN COOLERS = 24,180 LBS + 1000 LB CURB
ULTIMATE DESIGN WIND SPEED = 140 MPH (120 MPH SECOND (GUST) FOR RISK CATEGORY II BUILDINGS, NOMINAL DESIGN WIND SPEED, V₅₀ = 93 MPH
WIND EXPOSURE B
SEISMIC DESIGN CATEGORY D, SITE CLASS D
SEISMIC IMPORTANCE FACTOR I_e = 1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS S_s = 0.916 AND S₁ = 0.418
SPECTRAL RESPONSE COEFFICIENTS S_{ds} = 0.122 AND S_{d1} = 0.441
BASIC SEISMIC-FORCE RESISTING SYSTEM: EXISTING CONCRETE MECH CURB

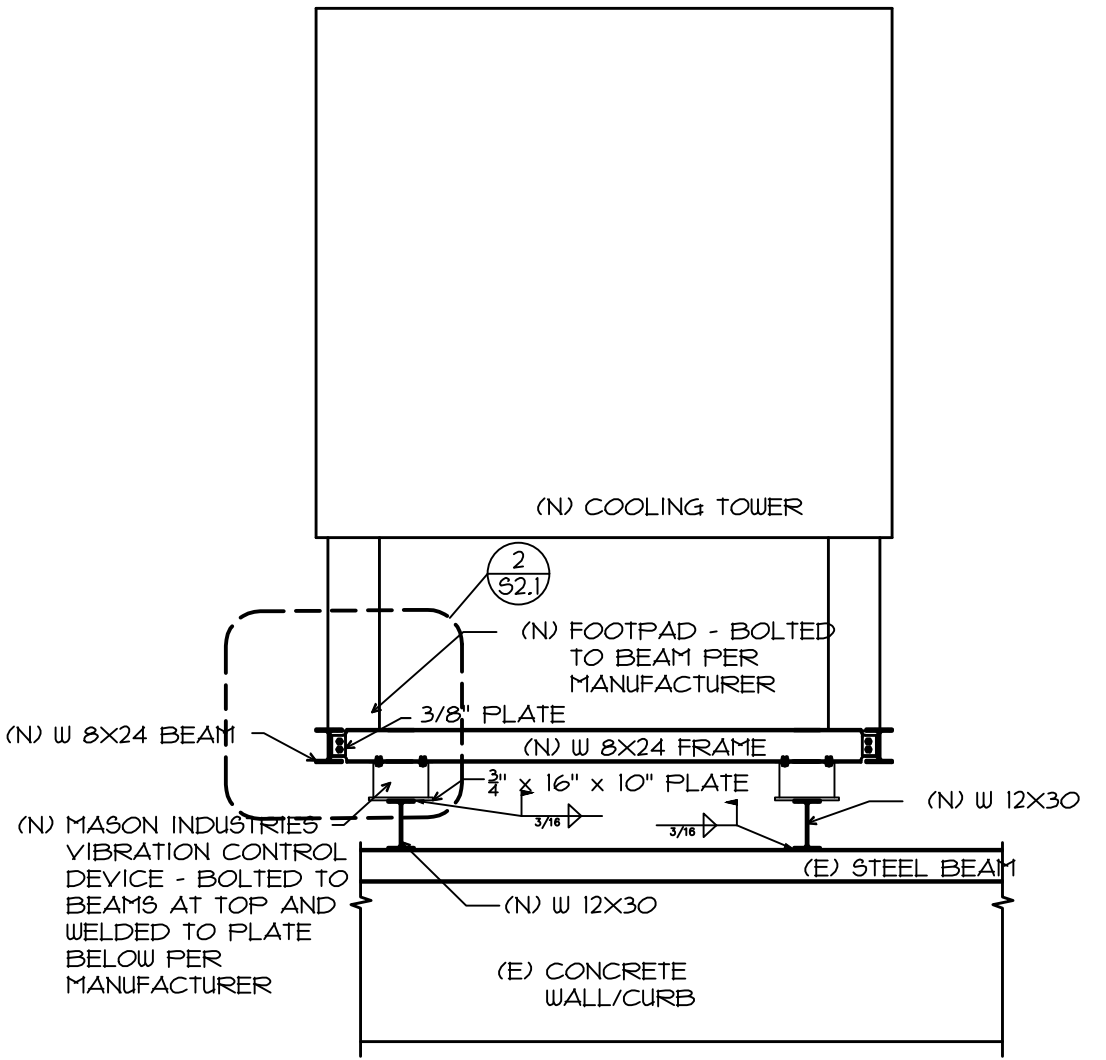
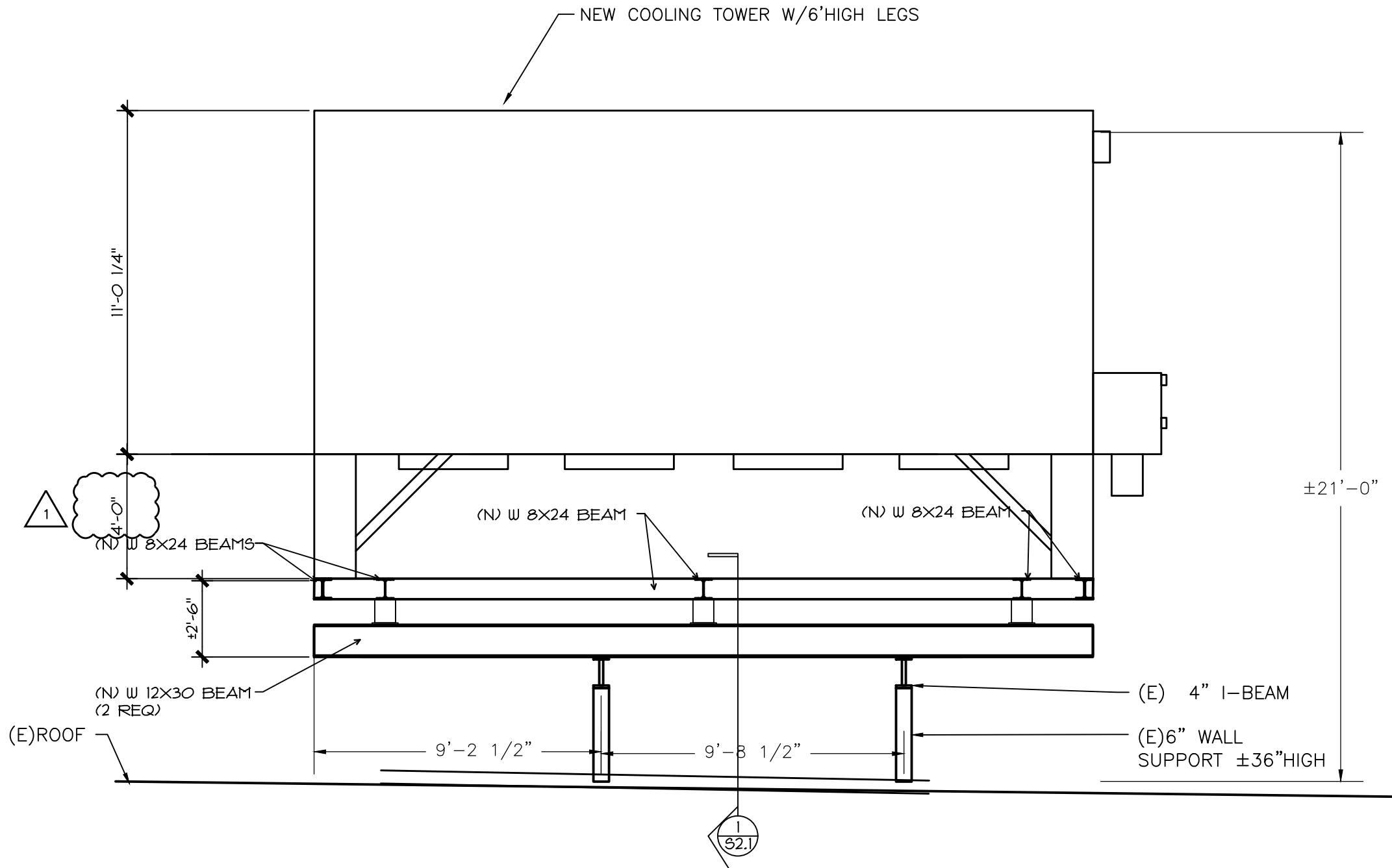
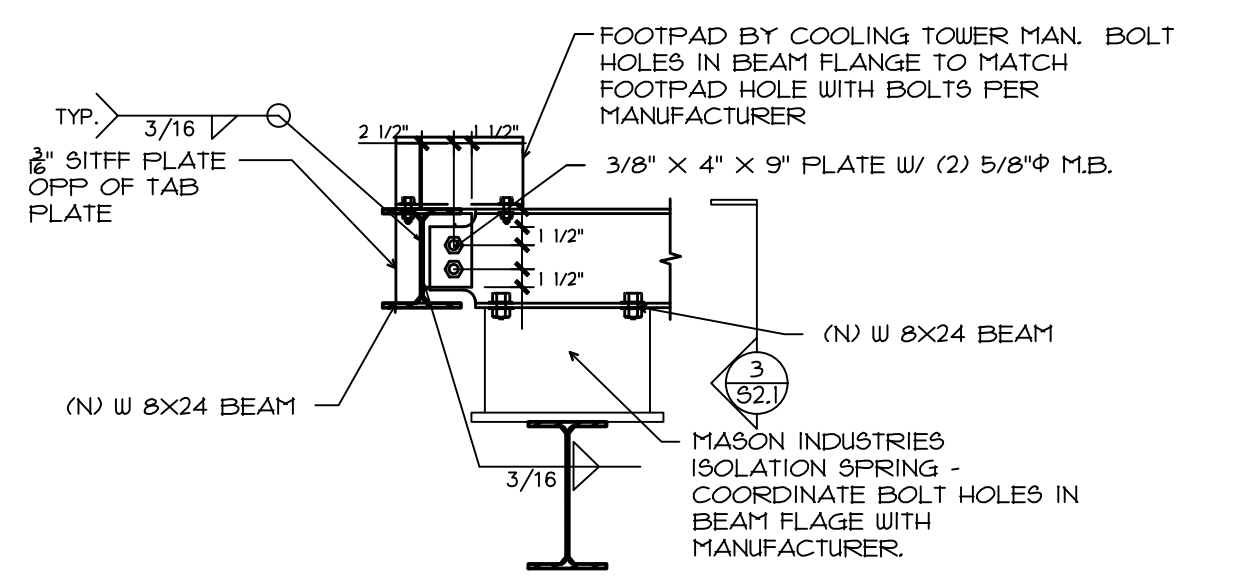
STRUCTURAL STEEL:
STRUCTURAL BEAMS SHALL CONFORM TO ASTM A992 GRADE 50 (BEAMS 21" AND DEEPER CAN BE ASTM A36). MISCELLANEOUS SHAPES AND PLATES SHALL CONFORM TO ASTM A36. BOLTS SHALL CONFORM TO ASTM A325. DETAIL AND FABRICATE ALL STEEL MEMBERS ACCORDING TO AISC STANDARDS. ALL WELDING SHALL CONFORM TO AWS STANDARDS. PROVIDE ONE SHOP COAT OF PRIMER ON ALL STEEL MEMBERS AFTER FABRICATION.

STEEL ERECTOR SHALL BE RESPONSIBLE TO CONFIRM THAT THE CONNECTIONS AND ERECTION METHODS COMPLY WITH OSHA STEEL ERECTION REQUIREMENTS.

GALVANIZED STEEL:
ALL STEEL MEMBERS NOTED AS GALVANIZED, OR WHERE EXPOSED (LOCATED OUTSIDE OF BUILDING SKIN) SHALL BE SHOP GALVANIZED AFTER FABRICATION WITH 2.0 MIL ZINC COATING IN ACCORDANCE WITH ASTM A123/A123M.

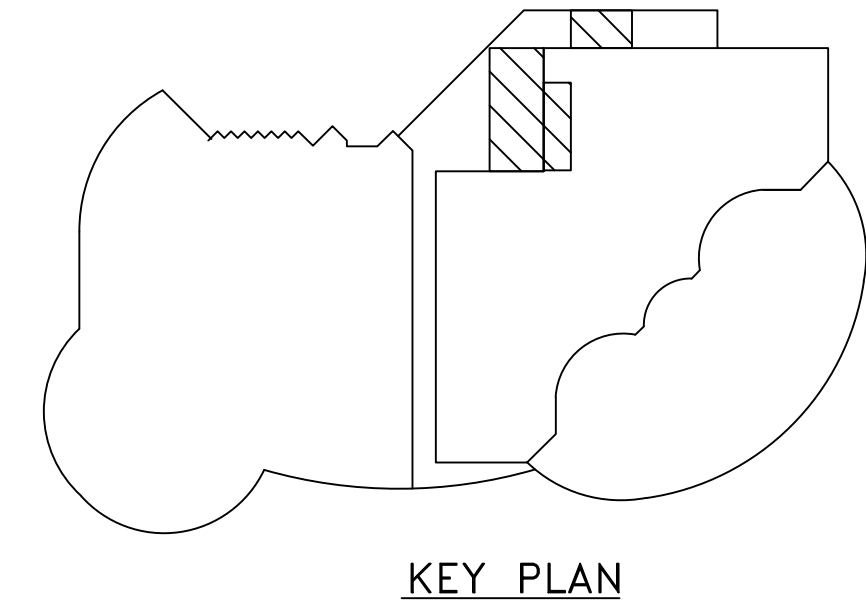


3 COOLER BASE BEAM CONNECTIONS (S2.1)



1 COOLER BASE CONNECTION (S2.1)

2 COOLER BASE BEAM CONNECTIONS (S2.1)



KEY PLAN