1. OWNER / GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FOOTING AND ANCHOR BOLT INSTALLATION PRIOR TO CANOPY FABRICATION. VARIATIONS FROM DESIGN ELEVATIONS MAY RESULT IN INADEQUATE CLEARANCE AND BURIAL DEPTH FROM HIGH GRADE UNDER CANOPY. WHERE TOPS OF FOOTINGS ARE AT DIFFERENT ELEVATIONS, THE EXPOSED ABOVE TOP OF FOOTING. BOTTOM OF THREADS SHALL NOT END MORE THAN 3/4" ABOVE TOP OF FOOTER.

2. FOOTING REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 DEFORMED BILLET STEEL BARS WITH SPACING AS SHOWN BASED ON MAXIMUM 3000 PSF SOIL BEARING AT BASE AND 200 PSF PER FOOT OF DEPTH LATERAL BEARING CAPACITY. A 7. FOOTING REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 DEFORMED BILLET STEEL BARS WITH SPACING AS SHOWN BASED ON MAXIMUM 3000 PSF SOIL BEARING AT BASE AND 200 PSF PER FOOT OF DEPTH LATERAL BEARING CAPACITY. A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.

3. FOOTING CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.

4. FOOTING DESIGN BASED ON AN ASSUMED 1'-6" BURY OF THE COLUMNS FROM THE BOTTOM OF BASEPLATE TO FINISHED LEVEL OF THE CANOPY. IT SHOULD HAVE #4 HORIZONTAL ANCHOR REINF. FROM MID-DEPTH OF FOOTING TO TOP OF COLUMN. THIS WILL PROVIDE ROUGH CENTER OF EACH COLUMN WITH #4 VERT. BARS AT THEREAFTER EACH WAY WITH #4 TIES-TOP 12" AND 8" GUSSET TYP. (8) #5 VERT. BARS (4) REQ'D PER FOOTING ANCHOR REINF. SEE PLAN DETAIL ANCHOR BOLT TYP.

5. FOOTINGS TO BE AT SAME HIGH POINT GRADE (PAVEMENT SLAB) AND LOW POINT GRADE (PAVEMENT SLAB) FOR COLUMN BURY.

6. OWNER / GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NON-SHRINK GROUT UNDER ALL COLUMN BASES AFTER CANOPY IS LEVEL & SECURED.

7. ANCHOR BOLTS SHALL BE PLACED IN ACCORDANCE WITH THIS DRAWING. TEMPLATES SHALL BE USED TO ENSURE PROPER PLACEMENT OF ANCHOR BOLTS. ANCHOR BOLTS ARE TO BE INSTALLED SUCH THAT A MINIMUM OF 8" OF THREAD IS INDICATES DEPTH LATERAL BEARING CAPACITY. A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.

8. FOOTINGS ARE ASSUMED TO BE CONSTRAINED BY DRIVE MAT CONCRETE. WHERE THIS CONDITION DOES NOT EXIST, THE OWNER / GENERAL CONTRACTOR SHALL PROVIDE THE CANOPY MANUFACTURER WITH ALL FOOTING AND GRADE ELEVATIONS AFTER CANOPY IS LEVELED AND SECURED.

9. ANCHOR BOLTS SHALL BE PLACED IN ACCORDANCE WITH THIS DRAWING. TEMPLATES SHALL BE USED TO ENSURE PROPER PLACEMENT OF ANCHOR BOLTS. ANCHOR BOLTS ARE TO BE INSTALLED SUCH THAT A MINIMUM OF 8" OF THREAD IS INDICATES DEPTH LATERAL BEARING CAPACITY. A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.

10. FOOTINGS ARE ASSUMED TO BE CONSTRAINED BY DRIVE MAT CONCRETE. WHERE THIS CONDITION DOES NOT EXIST, THE OWNER / GENERAL CONTRACTOR SHALL PROVIDE THE CANOPY MANUFACTURER WITH ALL FOOTING AND GRADE ELEVATIONS AFTER CANOPY IS LEVELED AND SECURED.

11. ANCHOR BOLTS SHALL BE PLACED IN ACCORDANCE WITH THIS DRAWING. TEMPLATES SHALL BE USED TO ENSURE PROPER PLACEMENT OF ANCHOR BOLTS. ANCHOR BOLTS ARE TO BE INSTALLED SUCH THAT A MINIMUM OF 8" OF THREAD IS INDICATES DEPTH LATERAL BEARING CAPACITY. A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.

12. FOOTINGS ARE ASSUMED TO BE CONSTRAINED BY DRIVE MAT CONCRETE. WHERE THIS CONDITION DOES NOT EXIST, THE OWNER / GENERAL CONTRACTOR SHALL PROVIDE THE CANOPY MANUFACTURER WITH ALL FOOTING AND GRADE ELEVATIONS AFTER CANOPY IS LEVELED AND SECURED.

13. ANCHOR BOLTS SHALL BE PLACED IN ACCORDANCE WITH THIS DRAWING. TEMPLATES SHALL BE USED TO ENSURE PROPER PLACEMENT OF ANCHOR BOLTS. ANCHOR BOLTS ARE TO BE INSTALLED SUCH THAT A MINIMUM OF 8" OF THREAD IS INDICATES DEPTH LATERAL BEARING CAPACITY. A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
1. DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE LATEST AISC SPECIFICATIONS. DESIGN, FABRICATION AND ERECTION OF COLD FORMED STEEL SECTIONS SHALL CONFORM TO THE LATEST AISI SPECIFICATIONS.

2. STRUCTURAL MATERIALS:

   a. ROOF DECK - ASTM A653, GRADE 50 (Fy = 50 KSI), GALVANIZED (G60) WITH BAKED ENAMEL FINISH
   b. PLATE - ASTM A36 (Fy = 36 KSI)
   c. PIPE SECTIONS - ASTM A53, GRADE B (Fy = 35 KSI)
   d. HOLLOW STRUCTURAL SECTIONS (TUBE) - ASTM A500 GRADE B (Fy = 46 KSI)
   e. ANGLES / CHANNELS - ASTM A36 (Fy = 36 KSI)
   f. WIDE FLANGE SECTIONS - ASTM A992 OR A572 GRADE 50 (Fy = 50 KSI)
   g. STEEL OUTRIGGERS - ASTM A653 GR. CS (Fy = 25 KSI), GALVANIZED (G90) PER ASTM 924

   i. CONCRETE - 150 PCF
   ii. STRUCTURAL STEEL - SELF WT
   iii. DECK / GUTTER / LIGHTS - 4.5 PSF
   iv. VERIFY LOCATION

3. WELDING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH LATEST ANSI / AWS D1.1

4. FIELD CONNECTIONS SHALL BE BOLTED CONNECTIONS UNLESS SPECIFIED ON DRAWING.

   a. TYP. COLUMN / CROSSBEAM CONNECTION
   b. TYP. CONTINUOUS PURLIN CONNECTION
   c. TYP. INNER PURLIN CONNECTION
   d. TYP. ANGLE LATERAL BRACING
   e. STUB PURLIN CONNECTION

5. WELDING OF STEEL SHALL BE PERFORMED IN ACCORDANCE WITH LATEST AWS F410.7.

6. STRUCTURAL STEEL SHALL BE SHOP COATED WITH A RED-OXIDE RUST INHIBITIVE PRIMER. FIELD TOUCH-UP, FINISH PAINTING, AND CLEAR COAT IS PERMITTED.

7. SEISMIC LOADS:
   a. Cs = 0.213
   b. Sd = 0.266g (Ss = 0.25g, Fa = 1.6), Sd1 = 0.167g (S1 = 0.105g, FV = 2.4)
   c. SEISMIC RISK CATEGORY II, SITE CLASS "D" ASSUMED, SEISMIC DESIGN CATEGORY "C"

8. DEAD LOADS:
   a. LATERAL = 61.20 PSF (ULTIMATE)
   b. UPLIFT = 22.90 PSF (ULTIMATE)
   c. FLAT ROOF SNOW LOAD = 8.4 PSF + DRIFT @ ADJACENT BUILDING
   d. ROOF LIVE LOAD = 20 PSF
   e. BASED ON GROUND SNOW LOAD= 10 PSF

9. ROOF DECK - ASTM A653, GRADE 50 (Fy = 50 KSI), GALVANIZED (G60) WITH BAKED ENAMEL FINISH

10. DESIGN LOADS PER 2015 INTERNATIONAL BUILDING CODE WITH NC AMENDMENTS AND LOCAL REQUIREMENTS:

   a. LATERAL = 61.20 PSF (ULTIMATE)
   b. UPLIFT = 22.90 PSF (ULTIMATE)
   c. FLAT ROOF SNOW LOAD = 8.4 PSF + DRIFT @ ADJACENT BUILDING
   d. ROOF LIVE LOAD = 20 PSF

11. WELDING OF STEEL SHALL BE PERFORMED IN ACCORDANCE WITH LATEST AWS F410.7.

12. WELDING OF STEEL SHALL BE PERFORMED IN ACCORDANCE WITH LATEST AWS F410.7.

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

14. FOUNDATIONS:
   a. NO GAP IS ALLOWED BETWEEN BEAM END AND PLATE. THE WELD NO GAP IS ALLOWED BETWEEN SIDE ELEVATION.
   b. Sds = 0.266g (Ss = 0.25g, Fa = 1.6), Sd1 = 0.167g (S1 = 0.105g, FV = 2.4)

15. FANS/HEATERS CENTERED ABOVE TEAM MEMBER WALKWAY

16. VERIFY LOCATION