

CLIENT APPROVAL

NAME AND DATE:

SIGNATURE:

DRAWN BY:

CJ

REV:

A

PROJECT TITLE:
A1 VACUUM ARCH AND FOOTING DETAIL

PROJECT NO.:
188-1000

GENERAL STRUCTURAL NOTES:

CODE:

INTERNATIONAL BUILDING CODE, 2012 EDITION.

LOADS:

SEISMIC: NOT CRITICAL.
WIND: 115-MPH (EXP. C)
FABRIC DEAD LOAD: 1-PSF.
ROOF LIVE LOAD: 5-PSF.

FOUNDATIONS:

SEE SOILS REPORT BY: NONE, CLAYEY SILT SOIL
DESIGN SOIL BEARING PRESSURE: 1500 PSF.
FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL.

CONCRETE:

MINIMUM 28 DAY STRENGTH TO BE 2500 PSI.
MAXIMUM SLUMP: 5 IN. TYPE II -V
MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED.

REINFORCING:

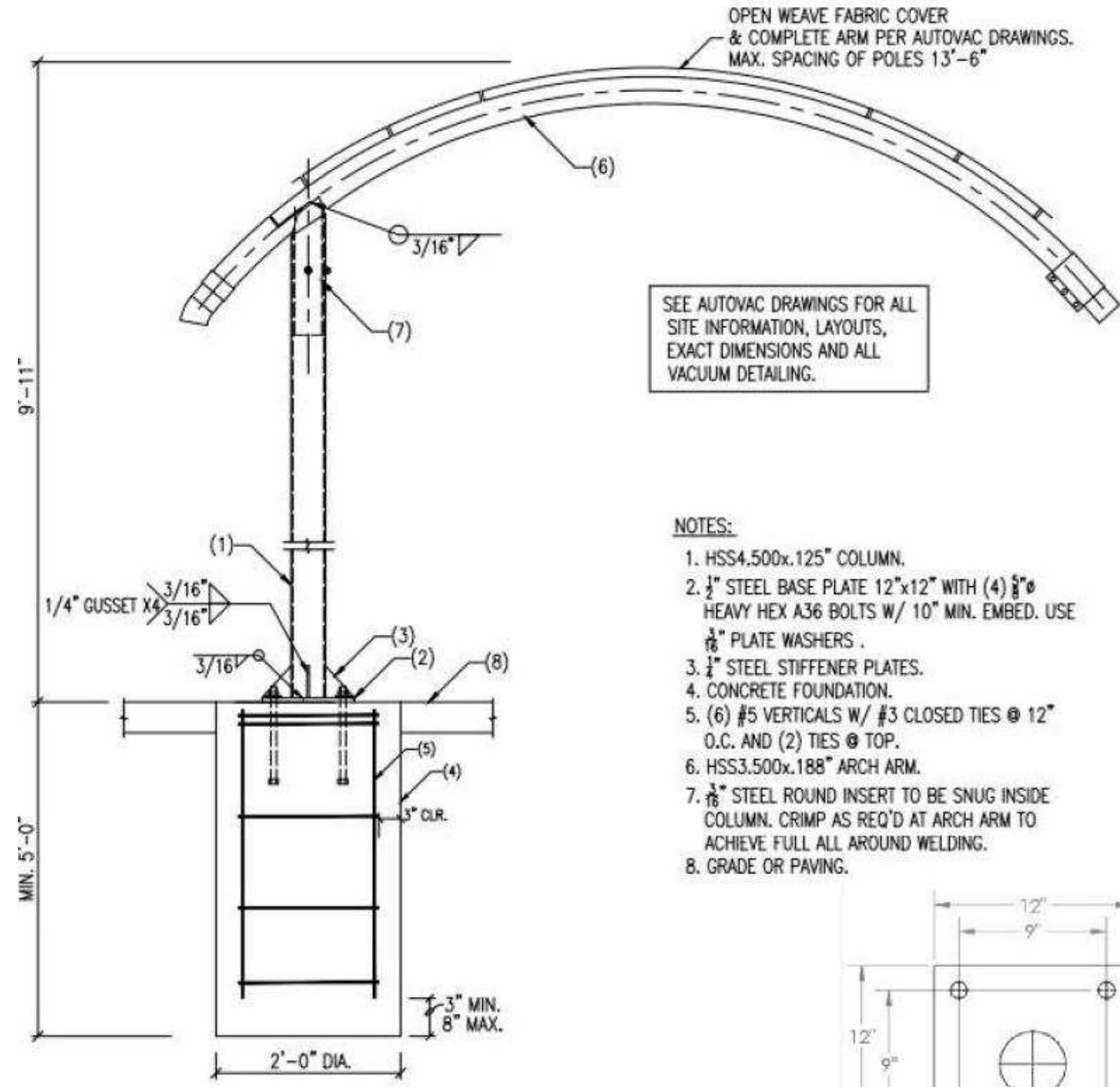
ASTM A-615 GRADE 60 (Fy=60 KSI)
CLEAR CONCRETE COVERAGE AS FOLLOWS:
CAST AGAINST EARTH 3 IN.

STRUCTURAL STEEL:

FABRICATED AND ROLLED SHAPES U.N.O. ASTM A36 (Fy = 36 KSI)
ROUND HSS ASTM A500 (Fy = 46 KSI)
DETAILING, FABRICATION AND CONSTRUCTION PER LATEST AISC MANUAL
FINISH PER AUTOVAC.
ANCHOR BOLTS TO BE ASTM A36 EQUIV. OR F1554-36.
PIPE FLANGE BOLTS TO BE GRADE 5 OR EQUAL.

WELDING:

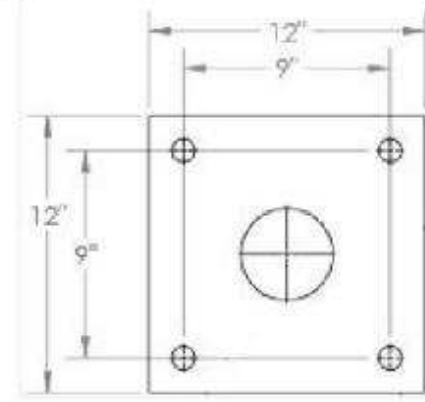
PER LATEST AWS STANDARDS BY CERTIFIED WELDERS.
USE E70 LOW HYDROGEN RODS UNLESS NOTED OTHERWISE.



SEE AUTOVAC DRAWINGS FOR ALL SITE INFORMATION, LAYOUTS, EXACT DIMENSIONS AND ALL VACUUM DETAILING.

NOTES:

1. HSS4.500x.125" COLUMN.
2. 1/2" STEEL BASE PLATE 12"x12" WITH (4) 3/8"Ø HEAVY HEX A36 BOLTS W/ 10" MIN. EMBED. USE 3/16" PLATE WASHERS .
3. 1/4" STEEL STIFFENER PLATES.
4. CONCRETE FOUNDATION.
5. (6) #5 VERTICALS W/ #3 CLOSED TIES @ 12" O.C. AND (2) TIES @ TOP.
6. HSS3.500x.188" ARCH ARM.
7. 3/8" STEEL ROUND INSERT TO BE SNUG INSIDE COLUMN. CRIMP AS REQ'D AT ARCH ARM TO ACHIEVE FULL ALL AROUND WELDING.
8. GRADE OR PAVING.



01 A1 VACUUM ARCH AND FOOTING DETAIL
N.T.S.

Notes: Unless otherwise specified

VACUUM SYSTEM ENGINEERING, LICENSING, PERMITS AND FEES
VACUUM SYSTEM \ STRUCTURAL ENGINEERING:
AUTOVAC ENGINEERS ALL OF ITS VACUUM SYSTEMS IN HOUSE. THIS CONSISTS OF VACUUM USAGE ANALYSIS, PIPE SIZING AND PIPE ROUTING. STRUCTURAL ENGINEERING ON ANY OF AUTOVAC PRODUCTS IS AVAILABLE AT AN ADDITIONAL FEE AND IS NOT INCLUDED IN THE QUOTED PRICE OR DOCUMENT SET UNLESS SPECIFICALLY NOTED AS "STRUCTURAL ENGINEERING INCLUDED". STRUCTURAL ENGINEERING IS COMPLETED BY A LICENSED STRUCTURAL ENGINEER IN THE MUNICIPALITY OF THE JOB SITE.