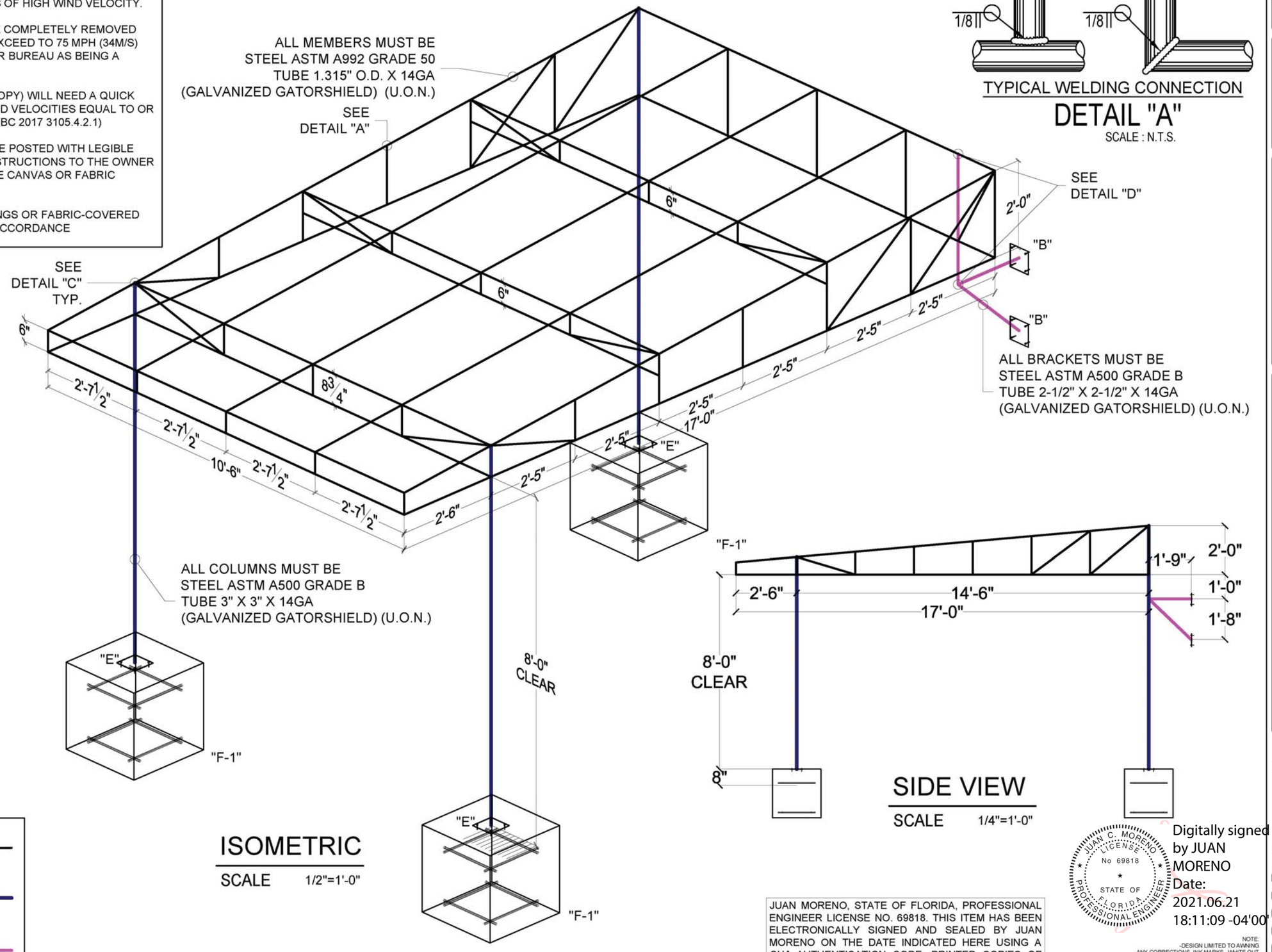
THE CANVAS AND OR FABRIC MUST BE DESIGNED TO BE READILY AND COMPLETELY REMOVED DURING PERIODS OF HIGH WIND VELOCITY.

REMOVABLE CANVAS OR FABRIC MUST BE COMPLETELY REMOVED WHEN WIND SPEED APPROACH AND/OR EXCEED TO 75 MPH (34M/S) AND/OR AS DESIGNATED BY U.S. WEATHER BUREAU AS BEING A HURRICANE WARNING OR ALERT.

THIS FABRIC-COVERED STRUCTURE (CANOPY) WILL NEED A QUICK REMOVAL OR BREAKAWAY FABRIC AT WIND VELOCITIES EQUAL TO OR GREATER THAN 75 MPH (ACCORDING TO FBC 2017 3105.4.2.1)

A HIGH WIND VELOCITY WARNING MUST BE POSTED WITH LEGIBLE AND READILY VISIBLE SIGN OR DECAL INSTRUCTIONS TO THE OWNER OR TENANT TO REMOVE COMPLETELY THE CANVAS OR FABRIC DURING SUCH PERIODS OR TIME.

THE CANVAS OR FABRIC USED FOR AWNINGS OR FABRIC-COVERED FRAMES SHALL BE FLAME RESISTANT IN ACCORDANCE WITH NFPA 701.



TYPICAL WELDING CONNECTION

DETAIL "A"

SCALE : N.T.S.

SIDE VIEW

SCALE 1/4"=1'-0"

ISOMETRIC

SCALE 1/2"=1'-0"

LINE WEIGHT

- ALL MEMBERS MUST BE STEEL ASTM A992 GRADE 50 TUBE 1.315"O.D. X 14GA (GALVANIZED GATORSHIELD) (U.O.N.)
- ALL COLUMNS MUST BE STEEL ASTM A500 GRADE B TUBE 3" X 3" X 14GA (GALVANIZED GATORSHIELD) (U.O.N.)
- ALL BRACKETS MUST BE STEEL ASTM A500 GRADE B TUBE 2-1/2" X 2-1/2" X 14GA (GALVANIZED GATORSHIELD) (U.O.N.)

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REVISIONS	
NO.	DATE

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Web site: www.iengineerpllc.com
E-mail: juan@iengineerpllc.com

SHOP DRAWINGS

8527 Crespi Blvd,
Miami Beach, FL 33141

06-18-2021
Juan C. Moreno
FL Reg P.E. #69818
VALID ONLY WITH RAISE PE SEAL.
TO THE BEST OF THE ENGINEERS KNOWLEDGE, THESE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES.

DATE:	03-18-2019
SCALE:	AS SHOWN
DESIGNED:	J.M.
DRAWN:	J.M.
CHECKED	

DRAWING NO.
SD-1

SHEET 1 OF 3

STRUCTURAL NOTES

GENERAL NOTES:

ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. DO NOT SCALE THE DRAWINGS. FOLLOW WRITTEN DIMENSIONS ONLY. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PART OF THE WORK.

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION.OUR EXTENT OF LIABILITY IS LIMITED TO THE AMOUNT OF THE ENGINEERING FEE.

DESIGN WIND LOADS:

THE STRUCTURAL FRAMING WAS DESIGNED USING F.B.C. 2017 AND THE FOLLOWING SUPERIMPOSED LOADS.

DESIGN WIND LOADS WERE DETERMINED IN ACCORDANCE WITH F.B.C 2017 AND ASCE 7-10.

WIND VELOCITY	: 105 MPH	EXPOSURE CATEGORY	: D
Kd	: 0.85	RISK CATEGORY	: 2
GCPI	: +/-0.18		

STRUCTURAL STEEL:

THE MATERIAL, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL COMPLY WITH THE SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 360-10.

ALL ANGLES AND PLATES SHALL BE ASTM A36, FY=36KSI OR APPROVAL EQUAL U.O.N.

ALL TUBES TO BE OUTSIDE DIAMETER, GALVANIZED GATORSHIELD, STEEL FY=50KSI. OR APPROVAL EQUAL, U.O.N.

ALL HOLLOW STRUCTURAL TUBE "HSS" TO BE STEEL ASTM A500 GRADE B, FY=46KSI, OR APPROVAL EQUAL, U.O.N.

ALL ANCHOR BOLTS SHALL BE KWIK BOLT III BY HILTI U.O.N., WITH WASHERS UNDER THE TURNED ELEMENT. BOLTS SHALL BE TIGHTENED IN ACCORDANCE WITH THE TURN-OF-THE-NUT METHOD.

WELDING SHALL BE DONE BY AWS CERTIFIED WELDERS USING THE MOST RECENT AWS APPROVED TECHNIQUES. SHIELDED METAL ARC WELDING (SMAW) SHALL USE E70XX LOW-HYDROGEN ELECTRODES.

ALL STEEL SHALL RECEIVE SHOP AND FIELD TOUCH-UP COATS OF PAINT IN ACCORDANCE WITH SSPC SPECIFICATIONS.

CONCRETE:

CONCRETE SHALL ACHIEVE MINIMUM 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS: 3,000 PSI REGULAR WEIGHT FOR FOOTINGS.

CONCRETE SLUMP SHALL NOT EXCEED 4" +/- 1" PRIOR TO THE ADDITION OF PLASTICIZER.

REQUIRED CONCRETE COVERAGE OVER REBAR SHALL BE AS FOLLOWS:
3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
FOR CONCRETE EXPOSED TO EARTH AND/OR WEATHER: 1-1/2" FOR #5 AND SMALLER & 2" FOR #6 AND LARGER

ACI 318-11, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

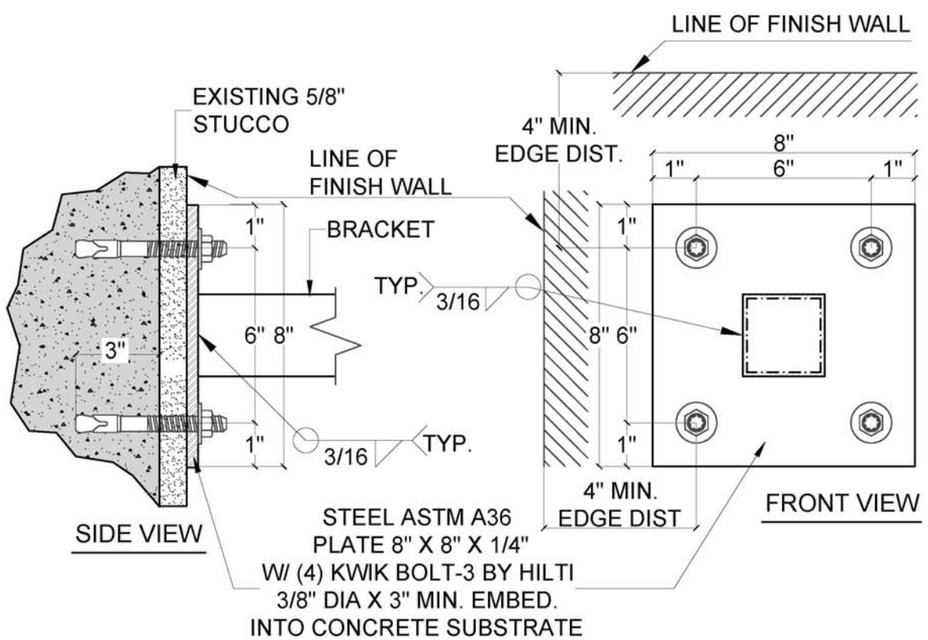
CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ACI 301 AND ASTM C-94 FOR MEASURING, MIXING, TRANSPORTING, ETC. ALL CONCRETE SHALL BE CURED USING A CURING COMPOUND MEETING ASTM STANDARD C-309, TYPE 1. CURING COMPOUNDS SHALL HAVE A FUGITIVE DYE. THE CURING COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE VISIBLE WATER HAS LEFT THE UNFINISHED CONCRETE. ALL SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY. CALCIUM CHLORIDES SHALL NOT BE UTILIZED IN THE WORK. OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.

REINFORCING STEEL:

REAR SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE, AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF THE ACI STANDARDS AND SPECIFICATIONS.

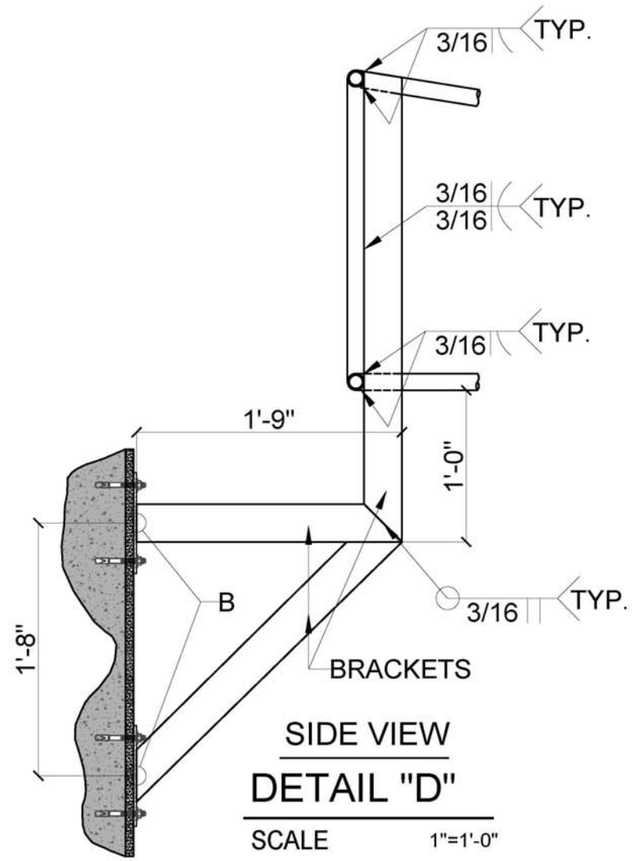
SOIL STATEMENT:

FOOTING WERE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF. THE BUILDING OFFICIAL SHALL BE PROVIDED WITH A STATEMENT OF ALLOWABLE BEARING CAPACITY FROM THE ENGINEER OF RECORD. SAID STATEMENT SHALL CLEARLY IDENTIFY THE ALLOWABLE IN-PLACE BEARING CAPACITY OF THE BUILDING PAD FOR THE NEW BUILDING OR ADDITION AND VERIFY THE EXISTING SOIL CONDITIONS. THE CERTIFIED IN-PLACE BEARING CAPACITY SHALL HAVE BEEN DETERMINED BY WAY OF RECOGNIZED TEST OR RATIONAL ANALYSIS.



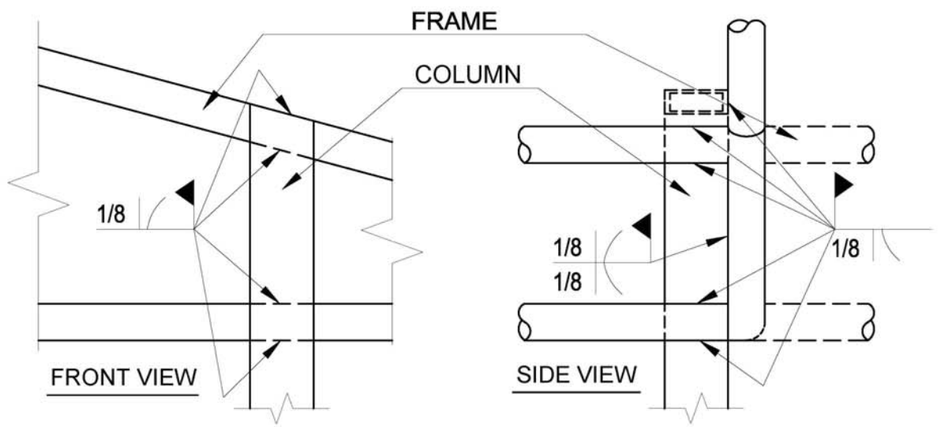
DETAIL "B"

SCALE N.T.S.



DETAIL "D"

SCALE 1"=1'-0"



SCHEMATIC DETAIL "C"

SCALE N.T.S.

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NOTE:
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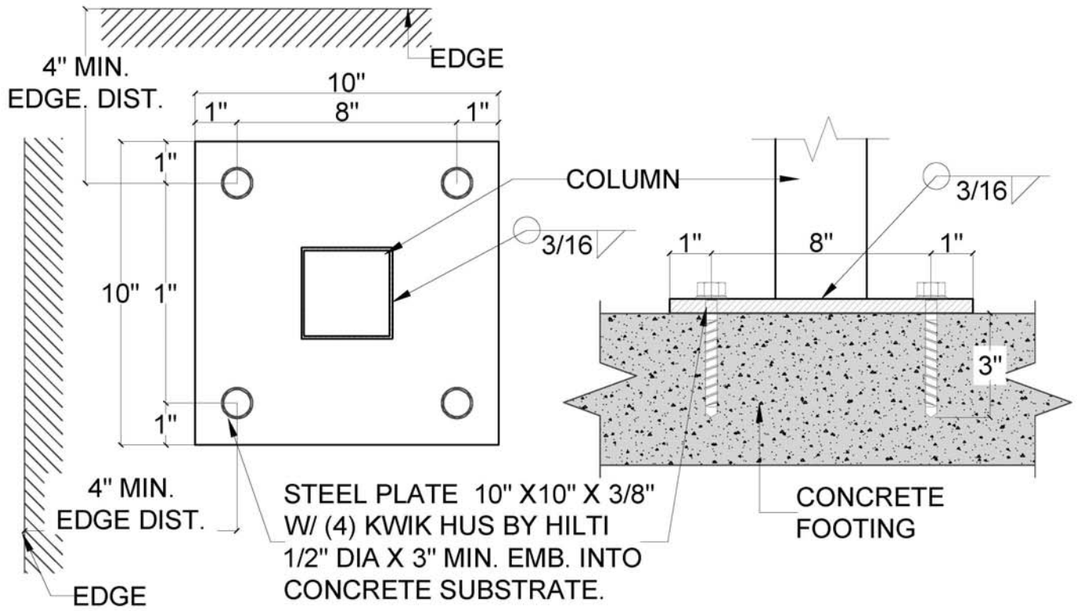
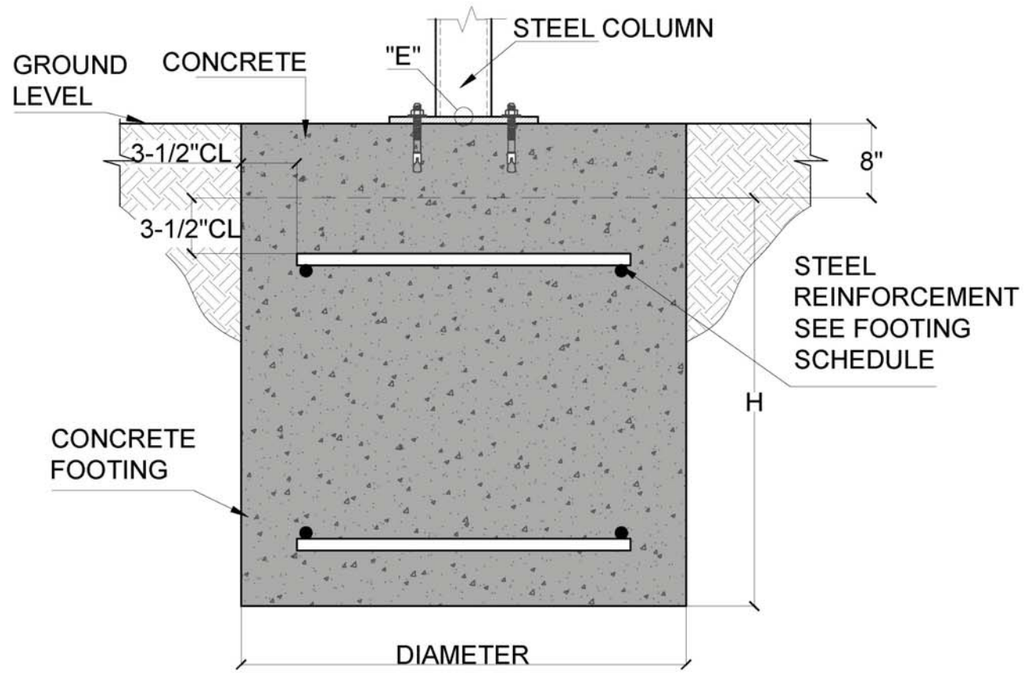


TOP VIEW

DETAIL "E"

SCALE N.T.S.

SIDE VIEW



ISOLATED CONCRETE FOOTING
FOUNDATION DETAIL

FOOTING SCHEDULE

MARK	SIZE		REINFORCING
	L X L	HEIGHT	TOP (T) & BOTTOM (B)
F-1	2'-0"X2'-0"	10"	1#5 @ 10" E.W.

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SHEET 3 **OF** 3