

TABLE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE AND GRADE 60 UNCOATED REINFORCING BARS. FOR LIGHTWEIGHT AGGREGATE USE 1.3Q.

CLASS A - HALF OR LESS OF THE BARS ARE SPICED WITHIN A REQUIRED LAP LENGTH.

CLASS B - MORE THAN HALF OF THE BARS ARE SPICED WITHIN A REQUIRED LAP LENGTH.

TOP BARS ARE HORIZONTAL BARS WITH 12" OR MORE OF CONCRETE CAST IN THE MEMBER BELOW THE BAR.

FOR BARS ENCLOSED IN STANDARD COLUMN SPIRALS, USE 0.75Q OR 12" MIN.

LAP SPICES OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE 1.2Q FOR THAT BAR IN A 3-BAR BUNDLE AND 1.33Q FOR A 4-BAR BUNDLE. ENTIRE BUNDLES SHALL NOT BE LAP SPICED AT THE SAME LOCATION. SPICES FOR INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE STAGGERED SUCH THAT THEY DO NOT OVERLAP.

Q - BASIC LAP LENGTH, SHOWN AT LEFT.

CASE SELECTION

- FOR FOUNDATION REINFORCEMENT USE CASE 1 UNO.
- FOR COLUMN REINFORCEMENT AND DOWELS USE CASE 1 UNO.
- FOR BEAM REINFORCEMENT USE CASE 2 UNO.
- FOR SLOPE ON GRADE REINFORCEMENT USE CASE 1 UNO.
- FOR WALL REINFORCEMENT AND DOWELS USE CASE 1 UNO.
- FOR WALLS WITH A SINGLE MAT OF STEEL CENTERED IN THE WALL, USE CASE 1 FOR WALL REINFORCEMENT AND DOWELS UNO.
- FOR CHORD STEEL REINFORCEMENT USE CASE 2 UNO.

BAR SIZE	LAP CLASS	f'c = 4500 psi	
		CASE 1	CASE 2
#3	A	18	27
#4	A	24	35
#5	A	29	44
#6	A	35	53
#7	A	41	59
#8	A	45	68
#9	A	51	77
#10	A	56	84
#11	A	62	93
#12	A	68	102

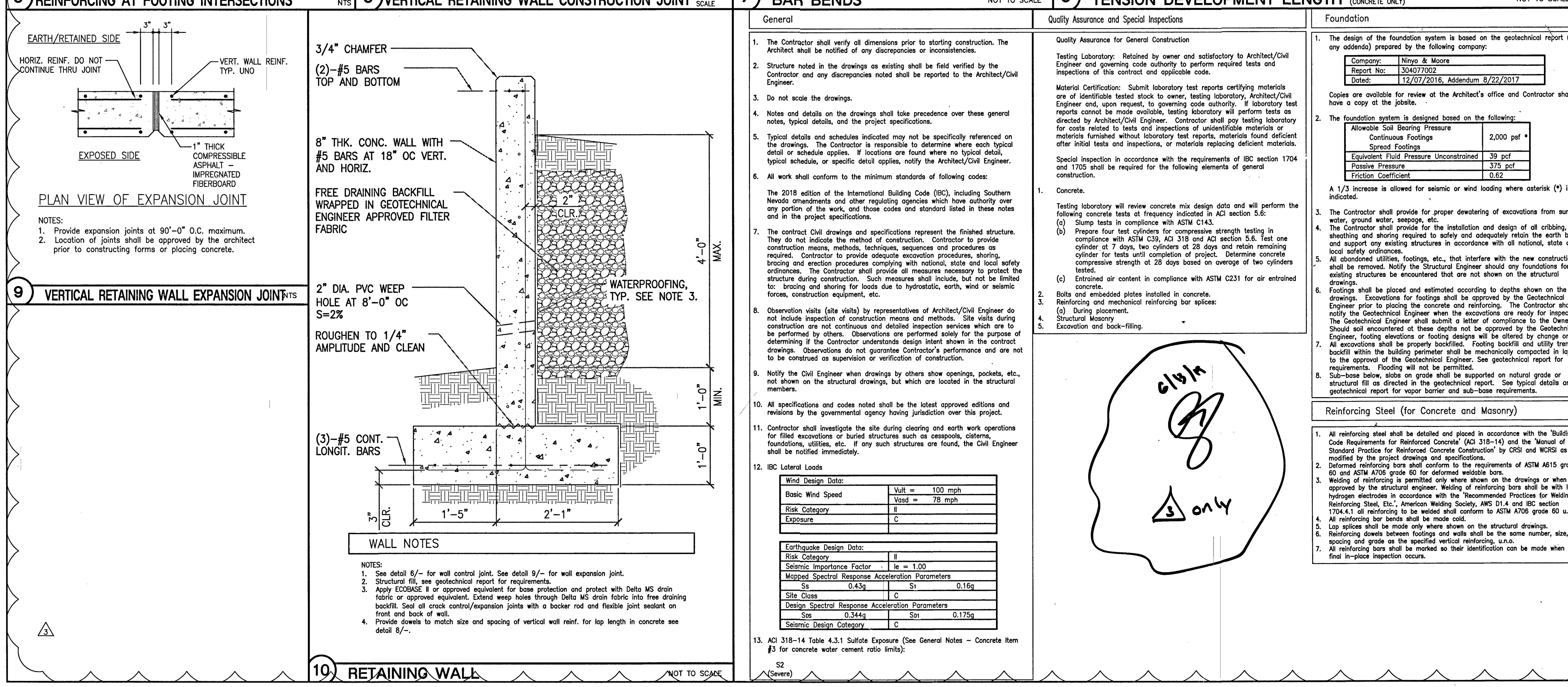
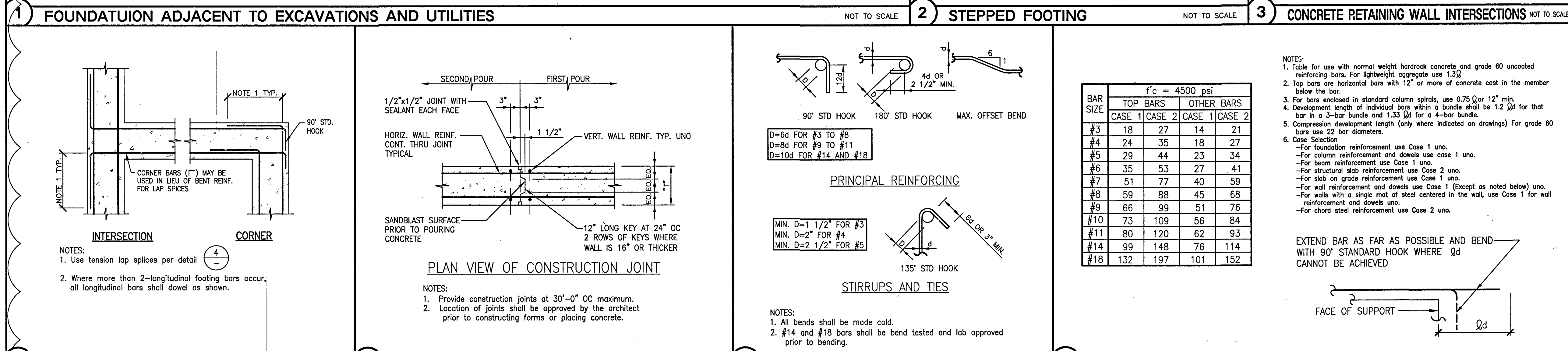


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SANCHEZ CIVIL ENGINEERING
7844 SOARING BROOKS ST.
LAS VEGAS, NV 89131
#702.340.7927

ADA ROUTE STRUCTURAL DETAILS
APN:125-17-613-001

DC PLAZA
8151 FARM ROAD
LAS VEGAS, NEVADA

PROJ. No.: FARM ADA
DATE: 6/12/2019
SCALE: 1"=20'
DRAWN BY: JPS
DESIGNED BY: JPS
CHECKED BY: LS

SHEET No. C4.03 B
SHEET 98 OF 45
H# 64486
10/27/2019