

NOTES:

1. DRAWINGS ARE FOR A STANDALONE GARAGE TO BE CONSTRUCTED AT A RESIDENTIAL PROPERTY LOCATED AT:

62 JUDI LEE ROAD  
LILLINGTON, NC 27546

2. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH 2018 NCBC (2015 IBC WITH NC AMENDMENTS)

3. SCOPE: FRAME AND FOUNDATION DESIGN ARE INCLUDED -- WALLS, ROOFS, DOORS, AND OTHER COMPONENTS ARE BY OTHERS

4. LOADS

- 4.1 DEAD, ROOF = 3 PSF
- 4.2 LIVE, ROOF = 20 PSF
- 4.3 WIND, V = 117 MPH, RISK CATEGORY = 2
- 4.4 SNOW = 10 PSF
- 4.5 SEISMIC DESIGN CATEGORY = C, SITE CLASS = D, Sds = 0.211, Sd1 = 0.145,
- 4.6 LOCATION IS NOT IN A FLOOD HAZARD ZONE

5. FOUNDATIONS AND ANCHORS

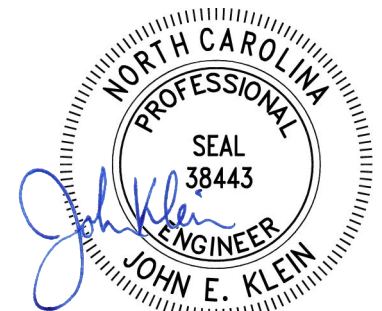
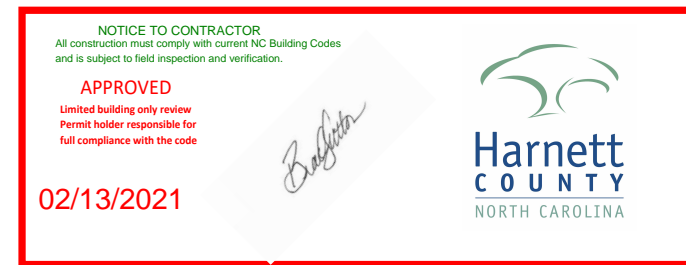
- 5.1 USE NORMAL WEIGHT CONCRETE, f'c = MINIMUM 2,500 PSI @ 28 DAYS
- 5.2 MIX CONCRETE IN ACCORDANCE WITH ASTM C-94
  - 5.2.1 CALCIUM CHLORIDE ADMIXTURES ARE PROHIBITED
  - 5.2.2 PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE 1
  - 5.2.3 CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33
- 5.3 SUBGRADE SOILS ARE TO BE UNIFORM, DENSE, WELL-DRAINED, AND FREE OF FOREIGN OBJECTS AND DELETERIOUS MATERIALS -- SUBGRADE PREPARATION IS AS REQUIRED BY THE JURISDICTION OR A GEOTECHNICAL ENGINEER, AS NEEDED
  - 5.3.1 ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF (ASSUMED), MODULUS OF SUBGRADE REACTION = 90 PCI
- 5.4 POST BASEPLATES TO BE CENTERED ON FOUNDATIONS
- 5.5 ANCHORS TO BE CAST IN PLACE OR POST INSTALLED, MIN. 5" EMBED, INSTALL PER MANUFACTURER'S INSTRUCTIONS
  - 5.5.1 CAST IN PLACE = 1/2" DIA. HEX HEAD, F 1554 GR. 36
  - 5.5.2 POST-INSTALLED = 1/2" DIA. A36 THREADED ROD WITH HILTI HIT-HY 200 EPOXY (OR SIMILAR)

6. STEEL

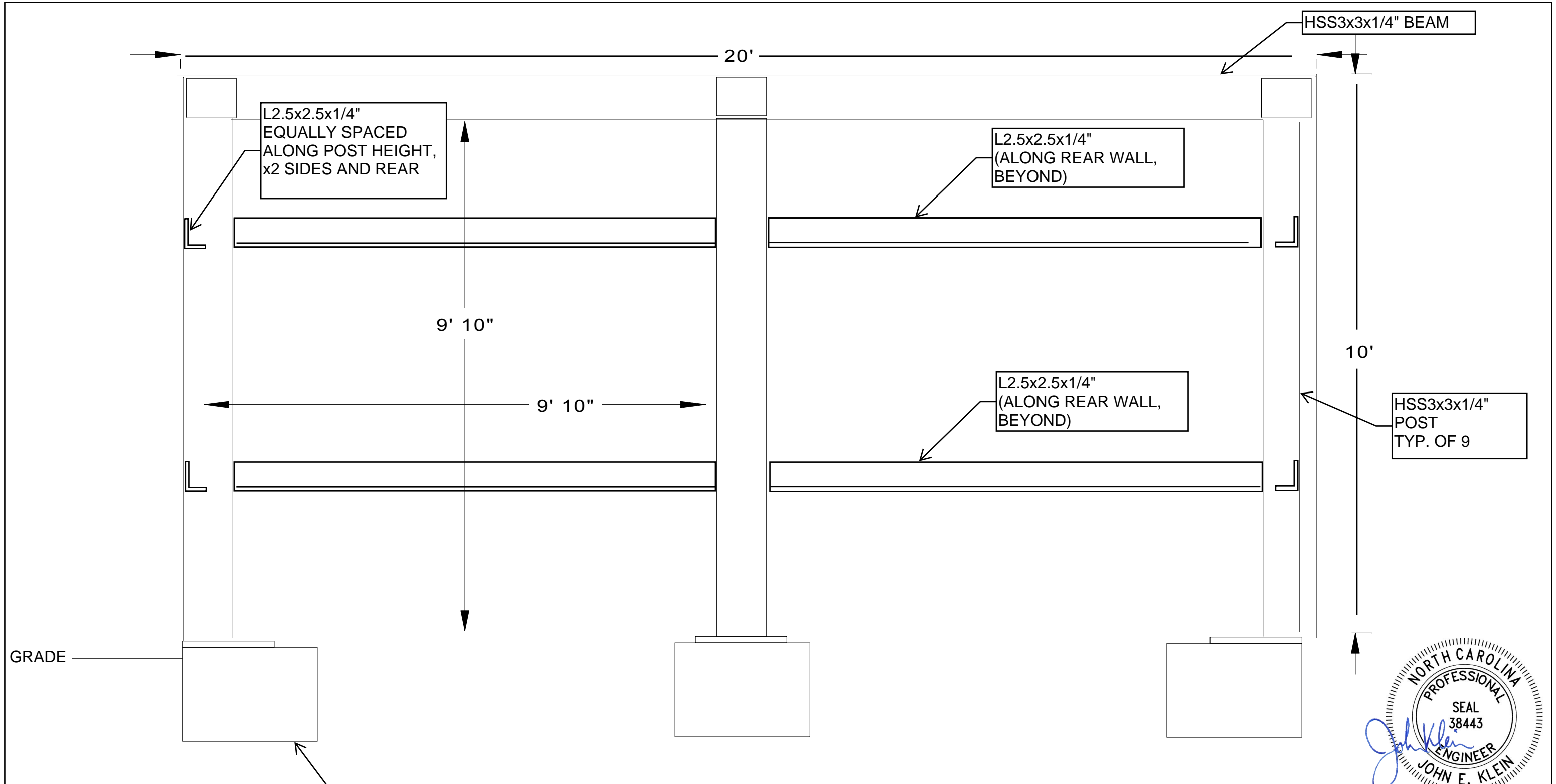
- 6.1 HSS = A500 GR C, Fy = 50 KSI MIN
- 6.2 PLATES, ANGLES, STRAPS / FLAT STOCK = A36, Fy = 36 KSI

7. WELDING

- 7.1 WELDING TO BE IN ACCORDANCE WITH AWS D1.1
- 7.2 FILLER MATERIAL TO BE 70 KSI MIN
- 7.3 ALL JOINTS TO BE FULLY WELDED
- 7.4 MIN WELD SIZE = THICKNESS OF STEEL FOR ROOF STRAP AND FLAT STOCK, MIN WELD SIZE = 3/16" FOR ALL TUBES, PLATES, AND ANGLES



<b>The Welding Machine LLC</b>			
<b>DRAWN</b> Cody	12-9-2020	<b>RESIDENTIAL GARAGE</b>	
<b>CHECKED</b> SG	1-19-2021		
<b>ENGINEER</b> JK	1-19-2021		
<b>APPROVED</b> JK	1-22-2021	<b>SIZE</b> <b>A</b>	<b>DWG NUMBER</b> <b>0000-0001</b>
<b>SCALE</b> 1 : 1		<b>REV</b> A	<b>SHEET 1 OF 5</b>



L2.5x2.5x1/4"  
EQUALLY SPACED  
ALONG POST HEIGHT,  
x2 SIDES AND REAR

L2.5x2.5x1/4"  
(ALONG REAR WALL,  
BEYOND)

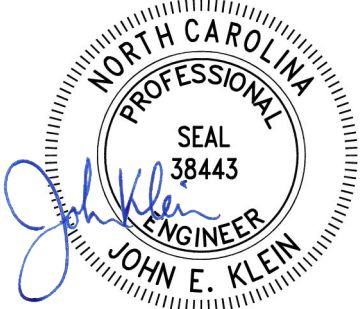
L2.5x2.5x1/4"  
(ALONG REAR WALL,  
BEYOND)

HSS3x3x1/4" BEAM

HSS3x3x1/4"  
POST  
TYP. OF 9

FOUNDATION  
MIN. 12" BELOW GRADE  
AND 2" ABOVE GRADE  
(SEE SHEET 5)

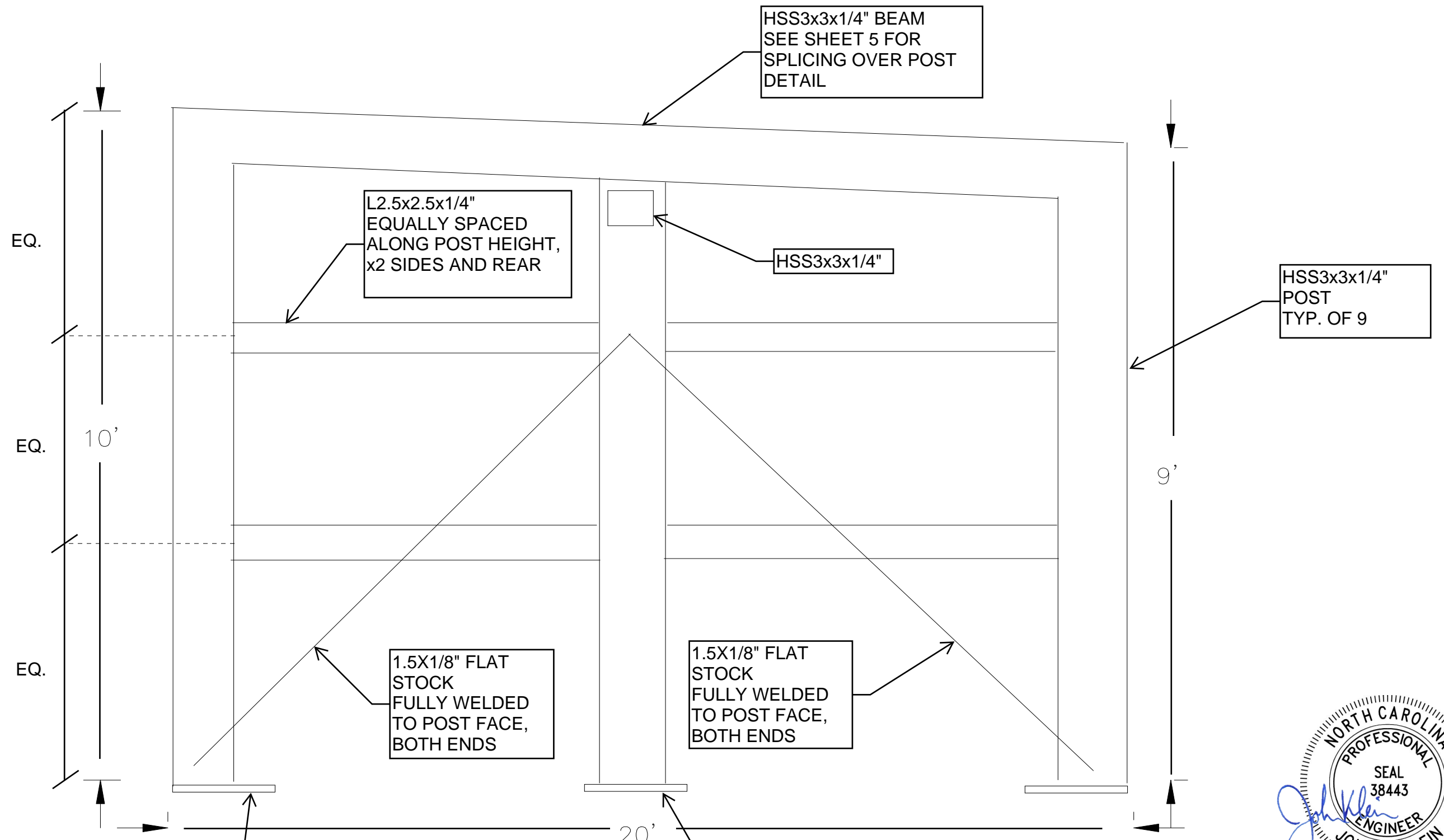
FRONT VIEW  
(ELEVATION)



**The Welding Machine LLC**

DRAWN	Cody	12-9-2020
CHECKED	SG	1-19-2021
ENGINEER	JK	1-19-2021
APPROVED	JK	1-22-2021
SCALE	1 : 1	

RESIDENTIAL GARAGE		SIZE	DWG NUMBER
		<b>A</b>	<b>0000-0001</b>
REV	A	SHEET 2 OF 5	



HSS3x3x1/4" BEAM  
SEE SHEET 5 FOR  
SPLICING OVER POST  
DETAIL

L2.5x2.5x1/4"  
EQUALLY SPACED  
ALONG POST HEIGHT,  
x2 SIDES AND REAR

HSS3x3x1/4"

HSS3x3x1/4"  
POST  
TYP. OF 9

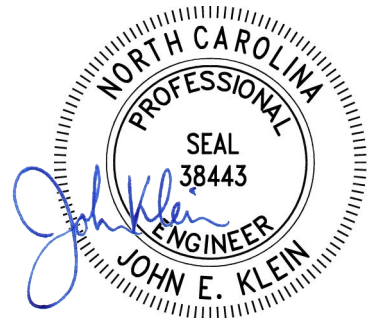
1.5X1/8" FLAT  
STOCK  
FULLY WELDED  
TO POST FACE,  
BOTH ENDS

1.5X1/8" FLAT  
STOCK  
FULLY WELDED  
TO POST FACE,  
BOTH ENDS

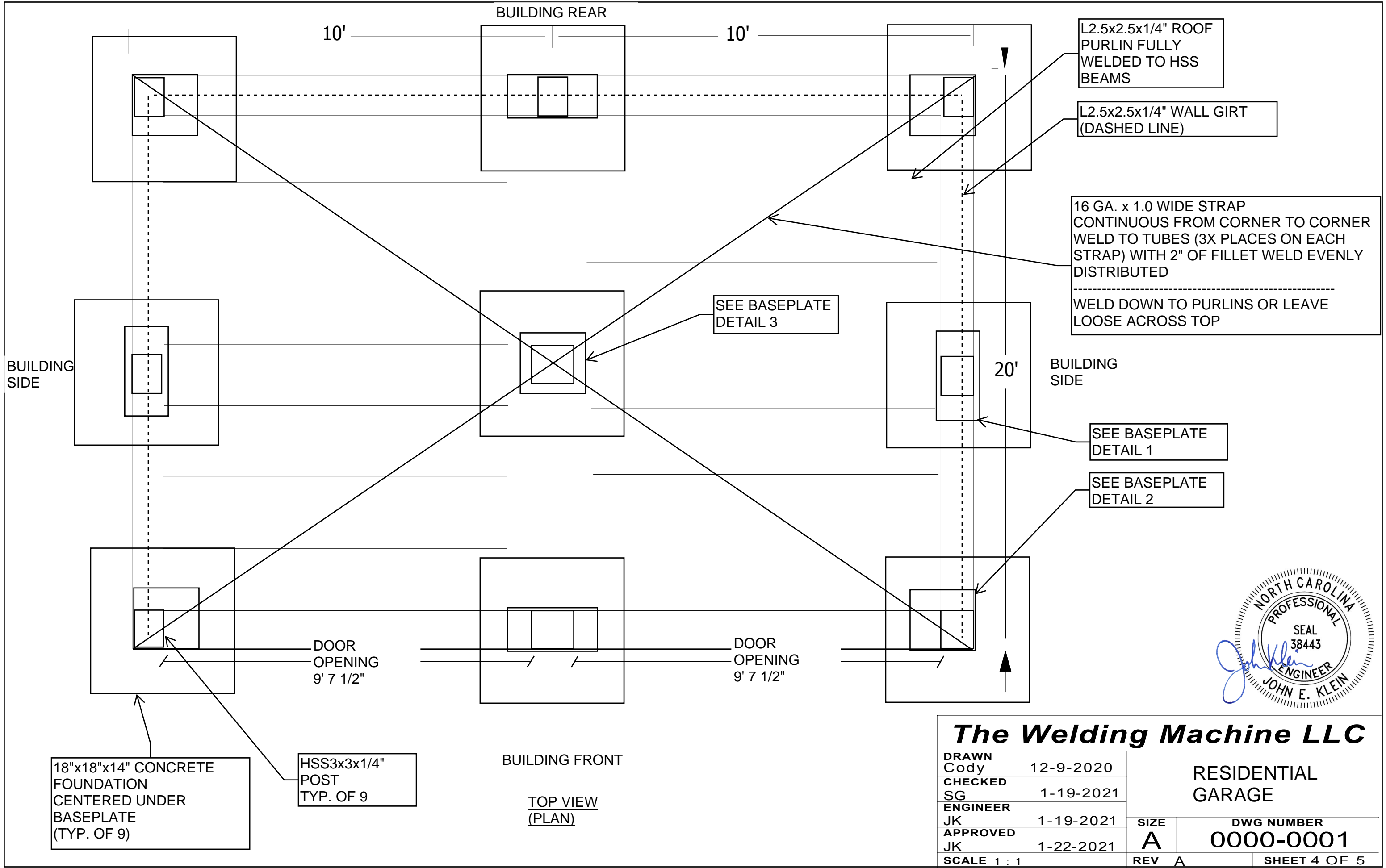
6x6x3/8"  
BASEPLATE  
TYP. OF 4

3.5x3.5x3/8"  
BASEPLATE  
TYP. OF 4

SIDE VIEW  
(ELEVATION)



<b>The Welding Machine LLC</b>			<b>RESIDENTIAL GARAGE</b>	
DRAWN Cody	12-9-2020	SIZE <b>A</b>		
CHECKED SG	1-19-2021	REV A	SHEET 3 OF 5	
ENGINEER JK	1-19-2021			
APPROVED JK	1-22-2021			
SCALE 1 : 1				

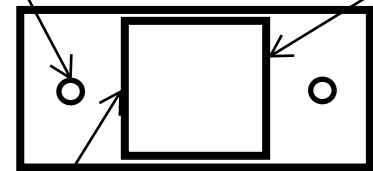


**The Welding Machine LLC**

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ENGINEER	JK	1-19-2021
APPROVED	JK	1-22-2021
SCALE	1 : 1	

RESIDENTIAL GARAGE		SIZE	A
		DWG NUMBER	0000-0001
REV	A	SHEET 4 OF 5	

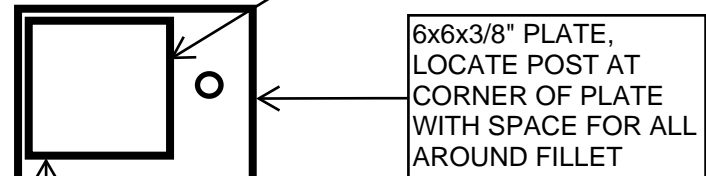
0.625" HOLE FOR 1/2" ANCHOR, SEE DETAIL THIS SHEET



3.5x9x3/8" PLATE CENTERED UNDER POST

HSS3x3x1/4" POST

BASEPLATE DETAIL 1  
(PLAN VIEW)  
(TYP. OF 4)



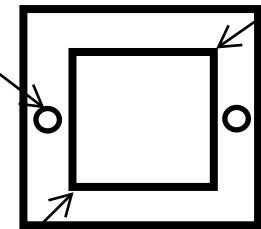
6x6x3/8" PLATE, LOCATE POST AT CORNER OF PLATE WITH SPACE FOR ALL AROUND FILLET

HSS3x3x1/4" POST

0.625" HOLE FOR 1/2" ANCHOR, SEE DETAIL THIS SHEET

BASEPLATE DETAIL 2  
(PLAN VIEW)  
(TYP. OF 4)

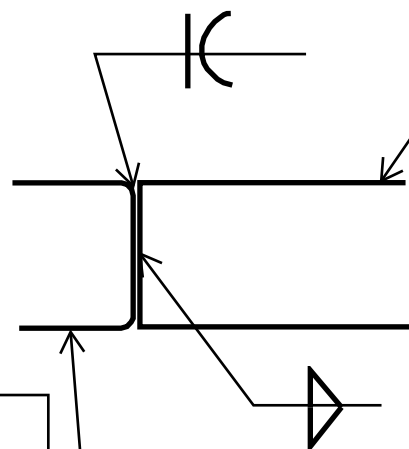
0.625" HOLE FOR 1/2" ANCHOR, SEE DETAIL THIS SHEET



6x6x3/8" PLATE CENTERED UNDER POST

HSS3x3x1/4" POST

BASEPLATE DETAIL 3  
(PLAN VIEW)  
(TYP. OF 1)



HSS3x3x1/4" BEAM

HSS3x3x1/4" POST

TYPICAL TUBE-END WELDING  
(USE FILLET OR FLARE-BEVEL WELDS AS APPROPRIATE FOR EACH JOINT)

HSS3x3x1/4" POST

NUT AND WASHER, TYP.

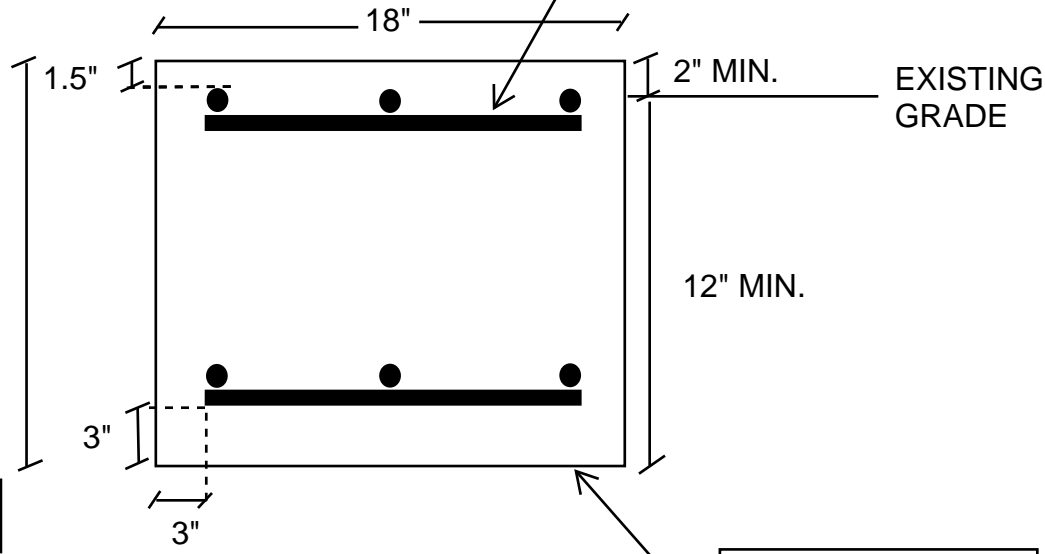
EXISTING GRADE 2" MIN.

1/2" DIA. ANCHOR MIN. EMBED 5"

5" MIN. EMBED

18"x18"x14" FOUNDATION

FOUNDATION  
(ELEVATION VIEW)

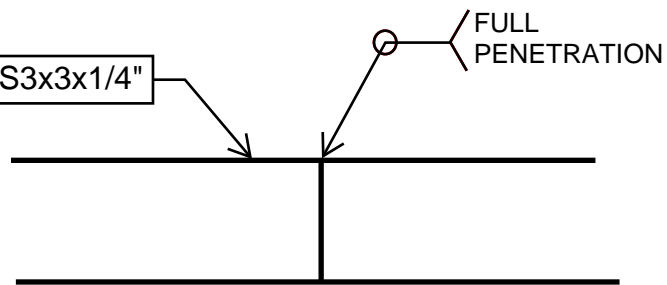


(3) #3 (3/8" REBAR) EACH WAY, TOP AND BOTTOM

EXISTING GRADE

FOUNDATION DETAIL  
(SECTION VIEW)  
(TYP. OF 9)

18"x18" SQUARE FOUNDATION, 14" THICK

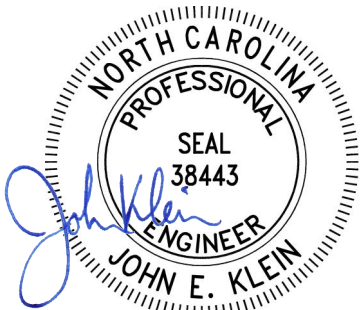


HSS3x3x1/4"

FULL PENETRATION

FULL-STRENGTH TUBE SPLICE (AS REQUIRED)  
SPLICES ONLY TO OCCUR OVER POST

NOTE: CENTER BASEPLATE ON FOUNDATION, TYP. OF 9



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SCALE 1 : 1			