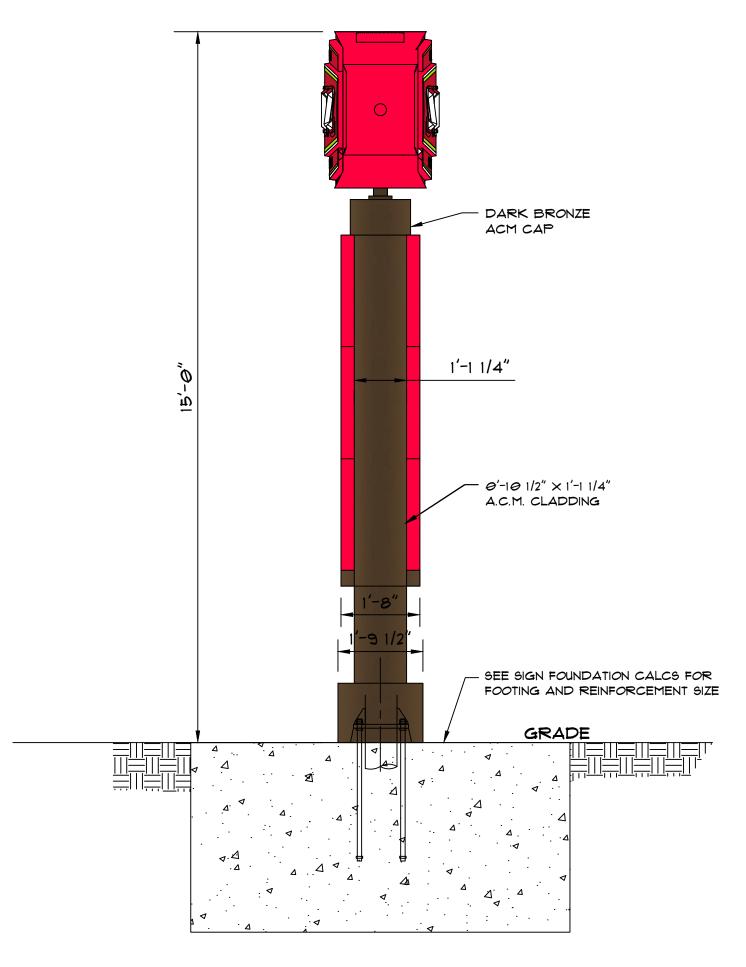


DOUBLE-FACED GAS PRICE SIGN DETAIL - PARTIAL ELEVATION

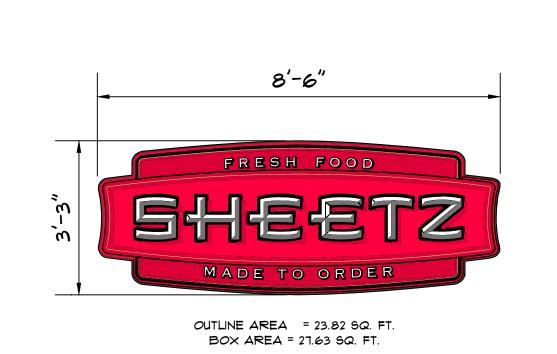
SCALE: 1/2" = 1'-0"

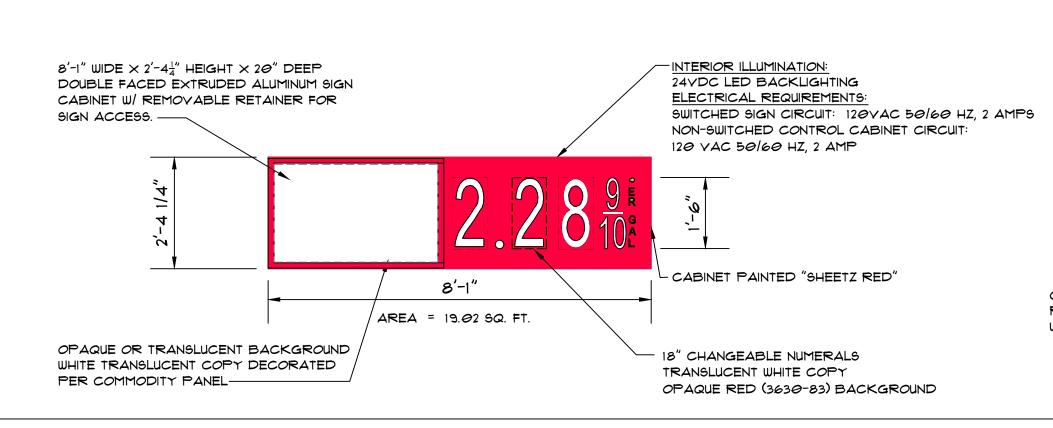
AREA: 84.69 SQ. FT.

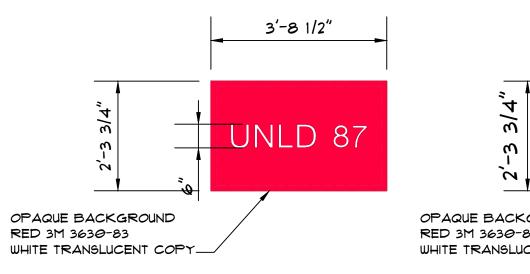


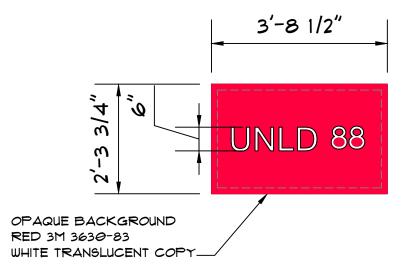
DOUBLE FACED GAS PRICE SIGN SIDE ELEVATION SCALE: 1/2"=1'-0"

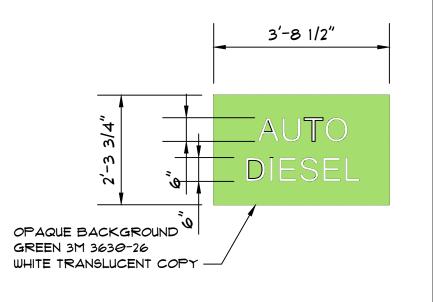
# SIGN CABINET DETAILS TOTAL SIGN AREAS: 84.69 SQ. FT.











Convenience Architecture and Design P.C.

351 Sheetz Way, Claysburg, PA 16625

phone (814) 239-6013 email tcolumbu@sheetz.com web site www.sheetz.com

PROJECT NAME:

**NEW SHEETZ SITE** 

## CAMERON

Cameron, NC PSR #214196

OWNER: SHEETZ, INC.

5700 SIXTH AVE. ALTOONA, PA 16602

CONSULTANT

PROFESSIONAL

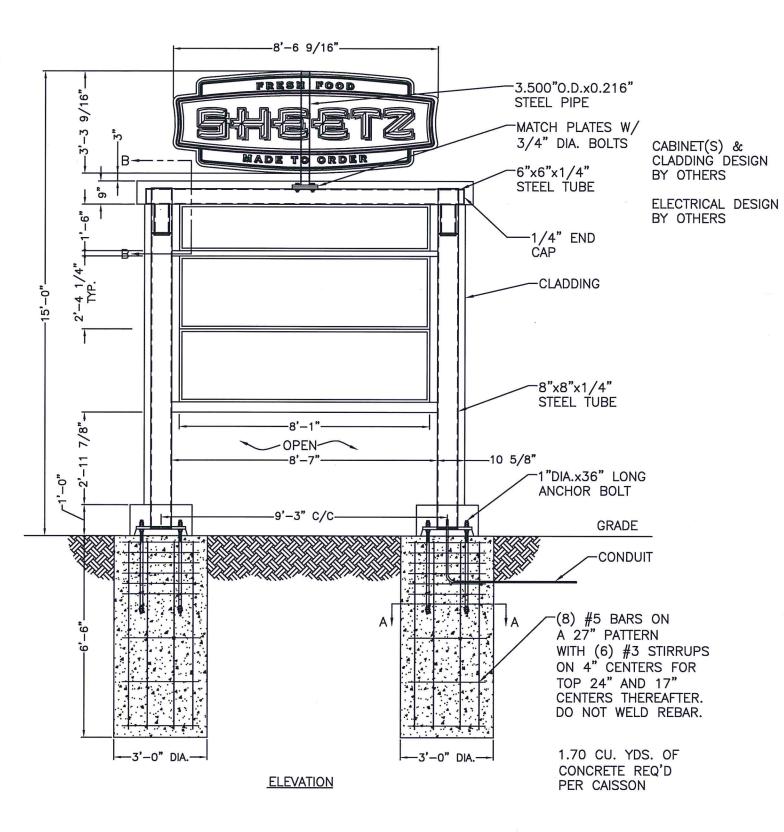
KEYPLAN

ISSUE: 7-15-2020
PROJECT NO:
AUTHOR BY: JEB
REVIEW BY:
SHEET TITLE

POLE SIGN

**DETAILS** 

PS1



### General Notes:

1. Design is based on 120 mph, 3 second gust wind design per NCBC 2018/IBC 2015, Category II, Exposure C. Seismic Design Category C.

Spread foundation is based on a presumptive safe vertical soil bearing pressure minimum of 2000 psf. Caisson foundation is based on a presumptive safe lateral soil bearing pressure minimum of 150 psf per foot of depth. Isolated lateral bearing footings subject to short-term lateral loads and not adversely affected by a 1/2" motion at grade are permitted to be designed using twice the tabulated value of the corresponding soil class.

A soil report was not provided. Foundation analysis assumes Soil Classification 4. Allowable bearing pressure should be verified prior to placement of concrete. In the event that the stated requirements are not met and conditions appear deleterious, cease and secure excavation and immediately contact BLAIR SIGN

Foundation shall not be placed at the top of, or on the side of a slope exceeding 3:1, or adjacent to a fill slope unless re-evaluated by a competent Professional Engineer. Do not place foundation in fill.

Concrete shall be mixed to attain a minimum 28 day compressive strength of 3000 psi.

Steel reinforcing bars shall conform to ASTM A615, Grade 60 with deformations in accordance with ASTM A305. Welding of reinforcing bars is prohibited.

All voids between column base plate and foundation surface shall

be completely filled with high—strength, non—shrink grout. Anchor bolts shall meet ASTM F1554 Grade 36. Exposed surfaces shall be galvanized or coated to prevent corrosion.

All support members shall be free from defects. Steel tube shall meet ASTM A500 Grade B with a minimum yield strength of 46000 psi. Steel angle, channel, and plate shall meet ASTM A36.

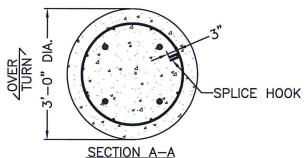
Steel welds shall be made with E70xx electrodes by persons qualified in accordance with AWS standards within the past two

11. All structural bolts shall conform to ASTM A325, and be zinc coated unless noted otherwise. When used with structural bolts, heavy hex nuts shall conform to ASTM A563, and washers shall conform to ASTM F436. Pretension high strength bolts using the turn of nut method unless noted otherwise.

The scope of this engineer does not include onsite observations. LINK Engineering will not be responsible for the safety on this job site before, during or after installation of this structure. It is the responsibility of the owners, contractors and installers to ensure that the installation and erection of this struc

14. Any deviation from this design or from any part of this drawing, including the General Notes, without prior written consent from LINK Engineering voids this drawing in its entirety.

The structure designed on this drawing is intended to be installed at the address shown and should not be used at any other



NSTALLATION ADDRESS:

SHEETZ - #716 2201 NC 24-87 CAMERON, NC

CLIENT:



5107 KISSELL AVENUE ALTOONA, PA 16601 PHONE (814) 949-8287 FAX (814) 949-8293

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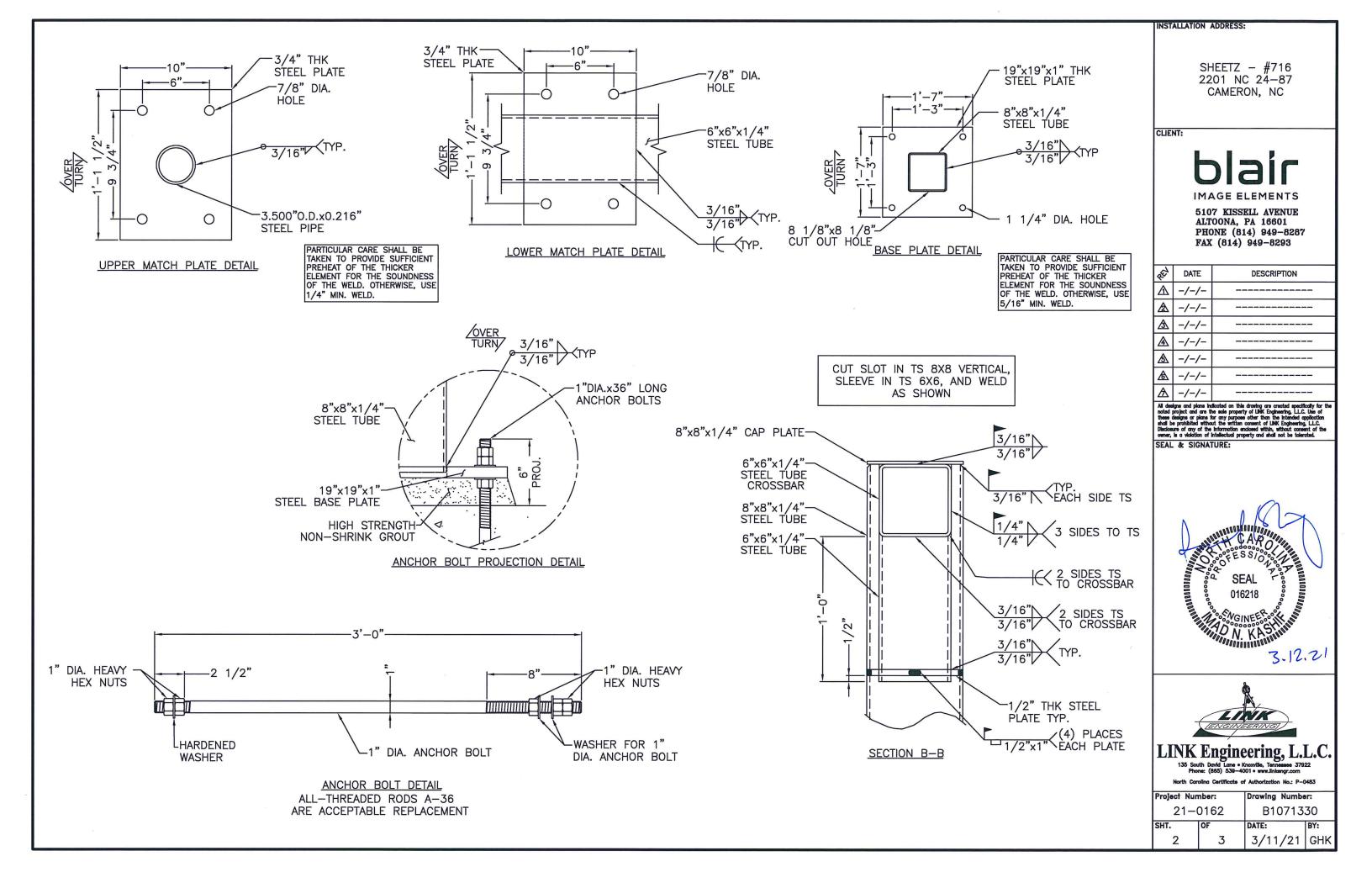
All designs and plans indicated on this drawing are created specifically for the noted project and are the sole property of LINK Engineering, LL.C. Use of these designs or plans for any purpose other than the intended application shall be prohibited without the written consent of LINK Engineering, LL.C. Disclosure of any of the information enclosed within, without consent of the owner, is a violation of intellectual property and shall not be tolerated.

SEAL & SIGNATURE:





Project Nur	nber:	Drawing Number:		
21-0162		B1071330		
SHT. OF		DATE:	BY:	
1	3	3/11/21	GHK	



		PROJECT#	21-0162		OWNER	SHEETZ					
-		March 11, 2021				2201 NC 24-	37				
		DRAWING#	B1071330			CAMERON N	c				
		WIND LOAD	22.116	PSF							
		WIND SPEED	120	MPH	CLIENT:	BLAIRSIGN	COMPANY				
-		# COLUMNS	2	NOBC 2018/IB	C2015	5107 KISSEL	L AVENUE				
- 1		DESIGNER	GHK			ALTOONA, F	A				
-											
-				SHAPE		FACTORED	TOTAL				
-	LEM ,	HEIGHT )	WIDTH '	FACTOR	HEIGHT	AREA	FORCE	WOWB/LE			
-					_====		===				
-	SIGN	3.297	8.547	0.873	1.649	24.591	0.544	0.897		ļ.,r	
- 1	COLUMN	0.438	8.547	1.000	0.219	3.739	0.627	1.153			
	SIGN COLUMNICLA DDING	7.276	10.354	1.000	3.638	75.337	2.293	11.773			
-1	OAH	3,990 15,000	1.771	1.000	1.995	4.880	2.401	21.136			
1	OAH	15.000								-	
		COLLMNICA	LCULATIONS	(MDES P	=PPE:0=OTHE	RT=TLBE)					
		COLCUITO	LOOLINGIA	(00000)	-, ii LO-0111L	DESIGN	OBLIQUE	AVAILABLE	<b>WLUMN</b>	OBLIQUE	
-		∞LUMN T	COLUMN T	COLUMN 3	lxx	MODULUS	LOAD	FLEXURAL	ŒNTER	LOAD	
	ITEM	WIDTH	DETH	WALL	<b>WLUMN</b>	COLUMN	MOMENT	STRENGTH	DISTANCE	FACTOR	UNITY
٦				=====							====
1	SIGN		3.500	0.201	2.8	2.19	0.897	3.83	9.250	1.448	0.302
	COLUMN		3.500	0.201	2.8	2.19	1.153	3.83	THE RESERVE THE PERSON OF THE		0.369
	SIGN	8.000	000.8	0.233	70.7	17.67	8.52	44.14			0.193
	COLUMNICLA DDING	8.000	8.000	0.233	70.7	17.67	15.30	44.14	Company of the Compan		0.347
-											
			T CALCULATIO	ONS SAIC							
-		,	******		OBLIQUE						
			BOLT	BOLTS/	TENSION	BOLT	ALLOW.	ALLOWA BLE			
-	ПЕМ	MOMENT	SPACING	PLATE	BOLT	DIAM.	STRESS	TENSION			
-			_===			_===	_===				
-	COLUMN	1.153	9.750	4.000	0.710	0.750	20.000	8.836			
-	BASEPL.	21.136	15.000	4.000	6. 120	1.000	19.100	15.001			
-		DAT	T COLOULA TO	0.00							
1			E CALCULATION	UI/IS	~						
-		1									
1	ПЕМ	TENSION	MOMENT	MOMB/IT	PLATE	PLATE	PLATE	MINIMUM			
1	non-	BOLT	ARM	PLATE	WIDTH	DEPTH	THICK.	THICK.			
1	COLUMN	0.710	3.969	2816	5.875	13.500	0.750	0.326	etimo, est confusios (tarti e territor autorigano propieto)		
1	BASEPL.	6.120	5.250	32.129	10.906	19.000	1,000	0.809			
1					10.000	10.000	1.000	0.000			
	ANCHOR BOLT PROJE	CTION AND	HOR EMBEDME	ENT	ANCHO	RBOLTMIN	ENGTH				
-	6.000		12.175			19.000					
-						ļ,	USE 36" A.B.				
	SPREAD FOUNDATION	1									
-1	MOMENTAT GRADE					15.300					
	TOTAL FORCE					1.738	kip				
-1	WEIGHT OF SIGN					0.698	kip				
	SLAB WIDTH					4.000	ft				
	SLAB LENGTH					6.000	ft				
	SLAB DEPTH					3.000	ft				
-1	SLAB WEIGHT					10.800	kip				
	TOTAL WEIGHT	_				11.498	kip				
7	OVERTURNING MOMB FACTOR OF SAFETY	41				20.513					
	e = OTMWT					1.784					
	e=Olwwl L/2-e					1.784				-	
- 1	SOIL PRESSURE 2*WT/	(3*(1 /2-a)*\/(IDTL\				1.216					
- 5	CONCRETE	(3 (DZ-6) WIDTH)				2.667	y d³				
-+	MIN. THICKNESS W/O	REBAR				14.363	in			<del> </del>	
		. 178*12*WIDTH)				14.505					
						L					

BOTTOM STEEL AREA REQ'D PER FT OF WIDTH		0.142	
TOP STEEL AREA REQD PER FT OF WIDTH		0.056	
LONG BOTTOM STEEL	REBAR SIZE	4.000	
	WEIGHT PER FT	0.668	
	SPACING	12.000	in
	AREA PER BAR	0.200	in²
BOTTOM STEEL AREA REQ'D PER FT OF WIDTH		0.142	
	AREA PER FT	0.200	
	EST NO. REQ'D	4.000	
	NUMBER REO'D	4.000	
	LENGTH	5.500	t
	WEIGHT	14.696	
	EDGE	6.000	
LONG TOP STEEL	REBAR SIZE	4.000	
	WEIGHT PER FT	0.668	
	SPACING	12.000	in
	AREA PER BAR	0.200	iπ²
TOP STEEL AREA REQD PER FT OF WIDTH		0.056	
	AREA PER FT	0.200	
	EST NO. REQD	4.000	
	NUMBER REQ'D	4.000	
	LENGTH	5.500	it
	WEIGHT	14.696	
	EDGE	6,000	
CROSS STEEL	REBAR SIZE	4.000	
0.10000122	WEIGHT PER FT	0.668	
	SPACING	12.000	in
	LENGTH	3.500	t t
	EST NO. REQD	6.000	
	NUMBER REQ'D EDGE	6.000	in
	WEIGHT	28.056	ın
	TOTAL WEIGHT	57.448	
EQUAD ATION 14/FTH			
FOUNDATION WIDTH		4.000	t
FOUNDATION LENGTH		6.000	t
CAISSON			
		45.055	
MOMENT FORCE		15.300	FT-KIP
The state of the s		1.738	KP
REFERENCE IBC 1807.3.2 & TABLE 1806.2			
ASSUME SOIL CLASS #4 SW, SP, SM, SC, GM & GC			
LATERAL BEARING PRESSURE - PSF/FT OF DEPTH		150.0	PSF/FT
S1		650.0	
DEPTH		6.500	FT.
DIAMETER		3.000	FT.
		8.804	FT.
		2.085	FT.
CALCULATED DEPTH		5.636	FT.
MINIMUM THICKNESS WITHOUT REINFORCEMENT		27.666	IN
ACTUAL DIAMETER		36.000	IN
CONCRETE		1.702	CU. YD.

REBAR SCHEDULE SPREAD FOUNDATION

DO NOT WELD REBAR 3" MIN. CONC. COVER

SI KLAD I GONDATION	N .	J MIIIA. CO	INC. COVE
PLACEMENT	SIZE	SPACING	QUANTITY
LONG BOTTOM STEEL	#4	12"	4
LONG TOP STEEL	#4	12"	4
BOTTOM CROSS STEEL	#4	12"	6
TOP CROSS STEEL	#4	12"	6

-9'-3" C/C-**GRADE** -CONDUIT 2.67 CU. YDS. SEE REBAR OF CONC. REQ'D SCHEDULE PER FOUNDATION -6'-0"-**ELEVATION** SIDE VIEW

OPTIONAL SPREAD FOUNDATION

NSTALLATION ADDRESS:

SHEETZ - #716 2201 NC 24-87 CAMERON, NC

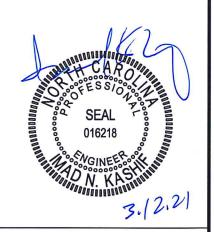
CLIENT:

5107 KISSELL AVENUE ALTOONA, PA 16601 PHONE (814) 949-8287 FAX (814) 949-8293

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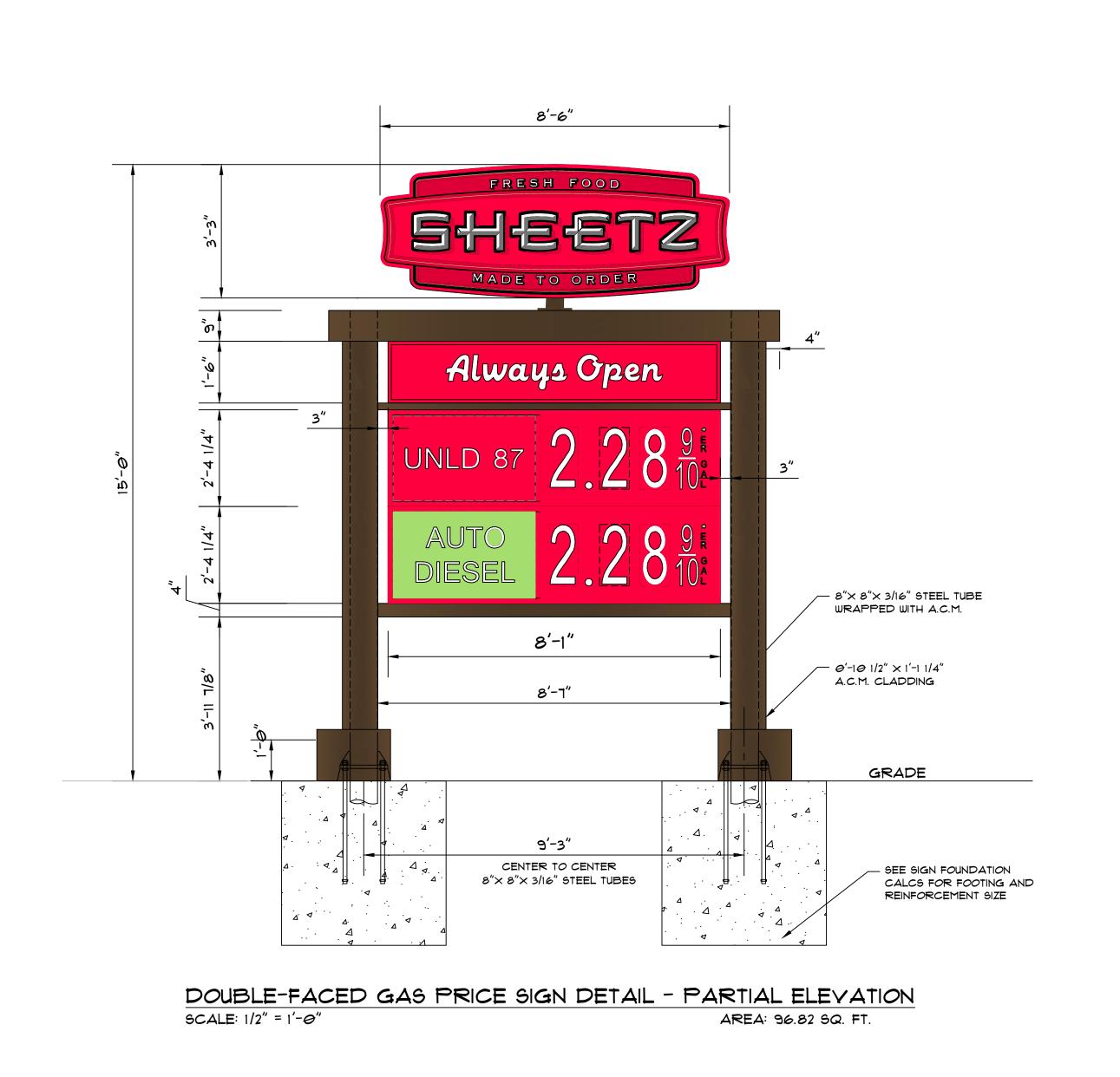
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SEAL & SIGNATURE:





Project N	lumber:	Drawing Number:		
21	-0162	B1071330		
SHT. OF		DATE:	BY:	
3	3	3/11/21	GHK	



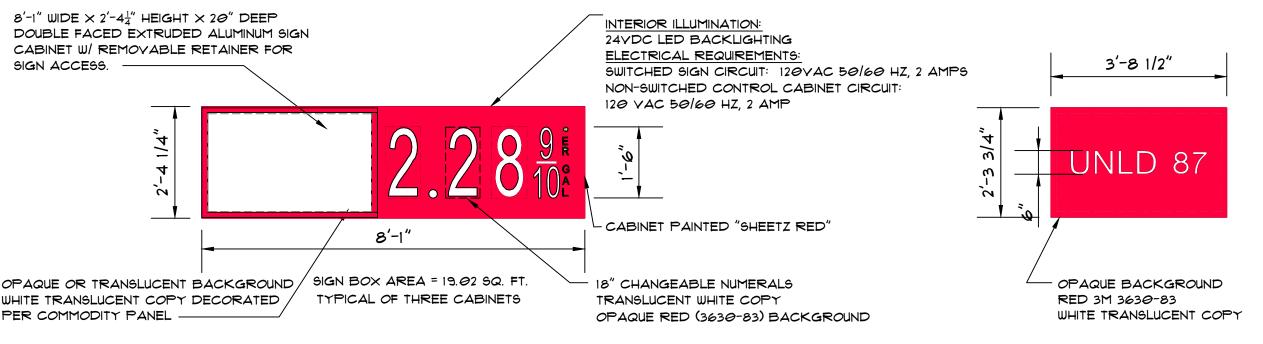
-DARK BRONZE ACM CAP - 0'-10 1/2" × 1'-1 1/4" A.C.M. CLADDING SEE SIGN FOUNDATION CALCS FOR FOOTING AND REINFORCEMENT SIZE GRADE

DOUBLE FACED GAS PRICE SIGN SIDE ELEVATION SCALE: 1/2"=1'-0"

### SIGN CABINET DETAILS TOTAL SIGN AREAS: 96.82 SQ. FT.







Convenience Architecture and *Design* P.C.

(814) 239-6013 tcolumbu@sheetz.com

web site www.sheetz.com

351 Sheetz Way, Claysburg, PA 16625

PROJECT NAME:

**NEW SHEETZ SITE** 

## CAMERON

Cameron, NC PSR #214196

OWNER:

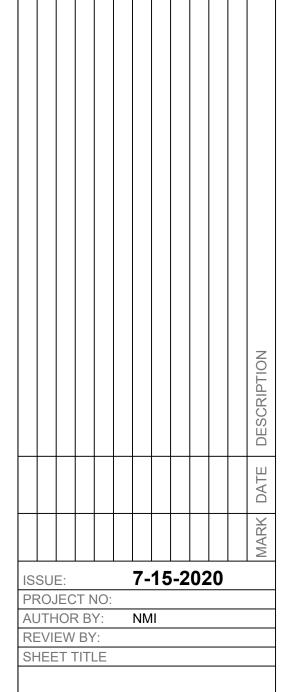
SHEETZ, INC.

5700 SIXTH AVE. ALTOONA, PA 16602

CONSULTANT

PROFESSIONAL

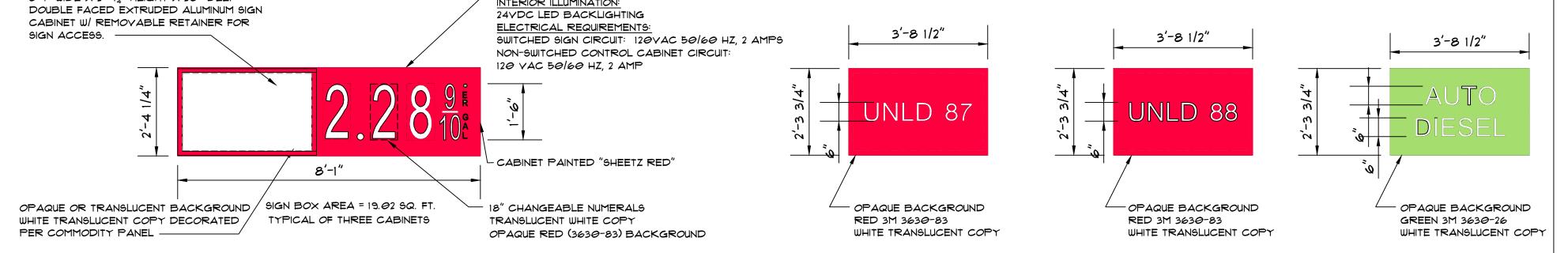
KEYPLAN

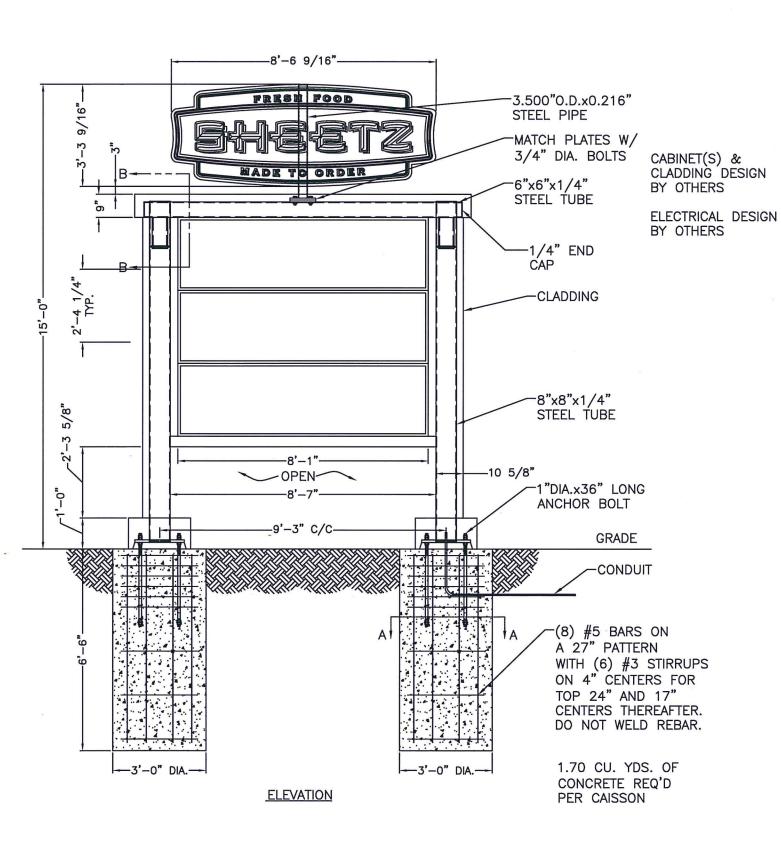


POLE SIGN

**DETAILS** 

PS2

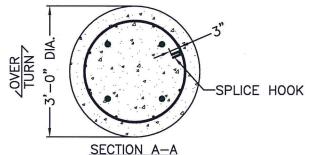




### General Notes:

- Design is based on 120 mph, 3 second gust wind design per NCBC 2018/IBC 2015. Category II, Exposure C. Seismic Design Category C.
- Spread foundation is based on a presumptive safe vertical soil bearing pressure minimum of 2000 psf. Caisson foundation is based on a presumptive safe lateral soil bearing pressure minimum of 150 psf per foot of depth. Isolated lateral bearing footings subject to short-term lateral loads and not adversely affected by a 1/2" motion at grade are permitted to be designed using twice the tabulated value of the corresponding soil class.
- A soil report was not provided. Foundation analysis assumes Soil Classification 4. Allowable bearing pressure should be verified prior to placement of concrete. In the event that the stated requirements are not met and conditions appear deleterious, cease and secure excavation and immediately contact BLAIR SIGN COMPANY.
- Foundation shall not be placed at the top of, or on the side of a slope exceeding 3:1, or adjacent to a fill slope unless re-evaluated by a competent Professional Engineer. Do not place foundation in fill.
- Concrete shall be mixed to attain a minimum 28 day compressive strength of 3000 psi.
- Steel reinforcing bars shall conform to ASTM A615, Grade 60 with deformations in accordance with ASTM A305. Welding of reinforcing bars is prohibited.
- All voids between column base plate and foundation surface shall be completely filled with high—strength, non—shrink grout.

  Anchor bolts shall meet ASTM F1554 Grade 36. Exposed surfaces
- shall be galvanized or coated to prevent corrosion.
- All support members shall be free from defects. Steel tube shall meet ASTM A500 Grade B with a minimum yield strength of 46000 psi. Steel angle, channel, and plate shall meet ASTM A36.
- 10. Steel welds shall be made with E70xx electrodes by persons qualified in accordance with AWS standards within the past two
- 11. All structural bolts shall conform to ASTM A325, and be zinc coated unless noted otherwise. When used with structural bolts, heavy hex nuts shall conform to ASTM A563, and washers shall conform to ASTM F436. Pretension high strength bolts using the turn of nut method unless noted otherwise.
- The scope of this engineer does not include onsite observations. LINK Engineering will not be responsible for the safety on this job site before, during or after installation of this structure. It is the responsibility of the owners, contractors and installers to ensure that the installation and erection of this struc
- 14. Any deviation from this design or from any part of this drawing, including the General Notes, without prior written consent from LINK Engineering voids this drawing in its entirety.
- The structure designed on this drawing is intended to be installed at the address shown and should not be used at any other



INSTALLATION ADDRESS:

SHEETZ - #716 2201 NC 24-87 CAMERON, NC

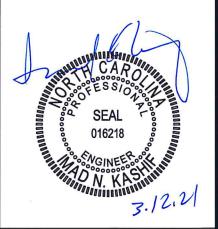
CLIENT:

5107 KISSELL AVENUE ALTOONA, PA 16601 PHONE (814) 949-8287 FAX (814) 949-8293

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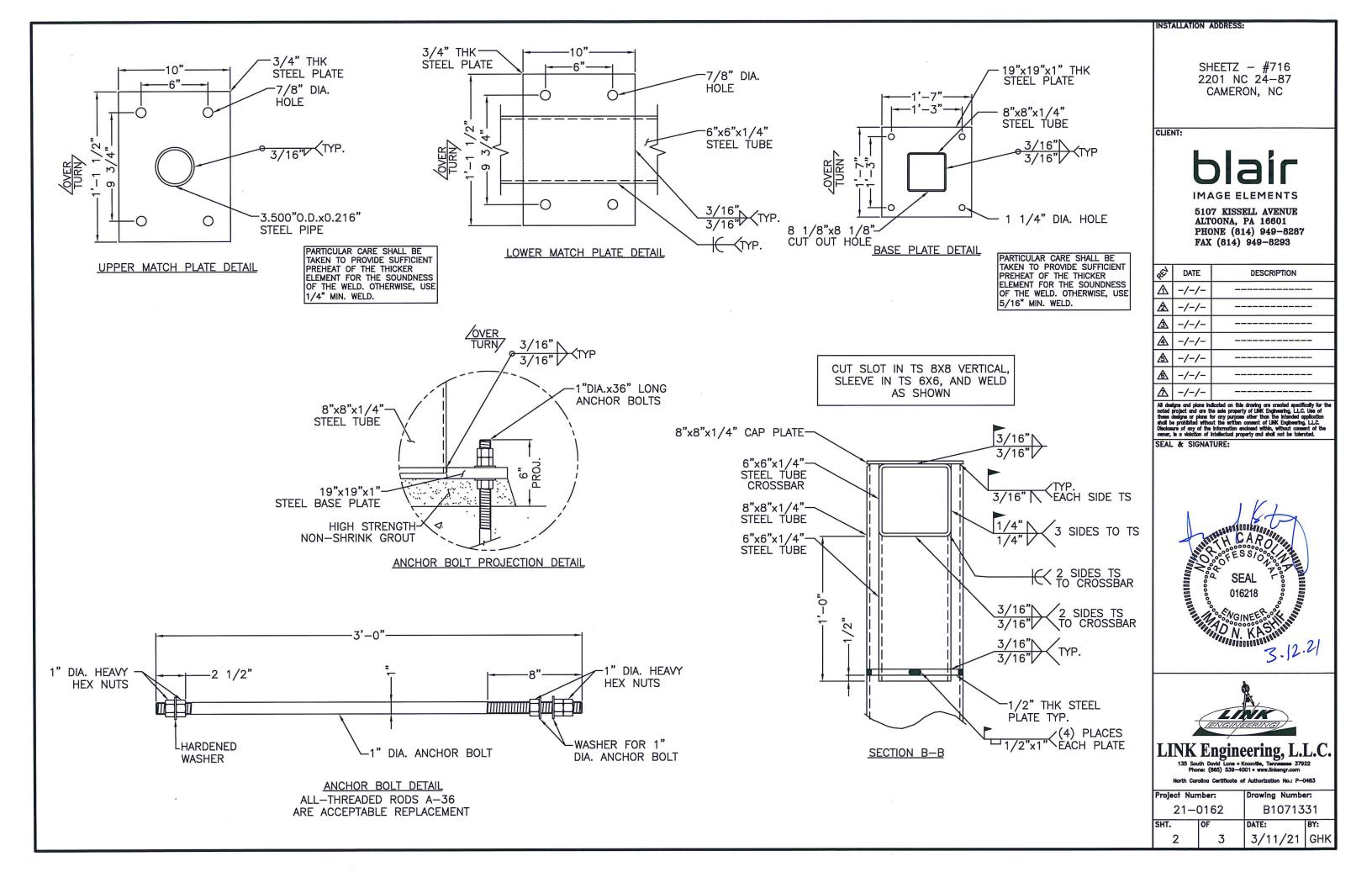
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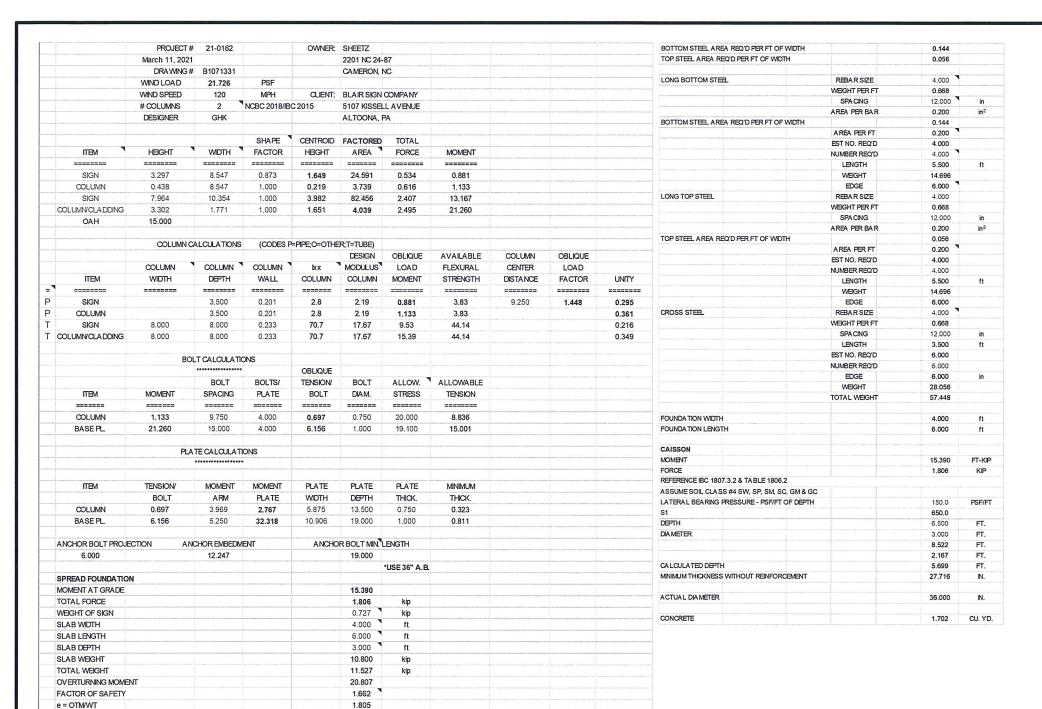
SEAL & SIGNATURE:





Project N	lumber:	Drawing Number:		
21-0162		B1071331		
SHT.	OF	DATE:	BY:	
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1.195

1608

2.667

14,405

36.000

L/2 - e

CONCRETE

SOIL PRESSURE 2\*WT/(3\*(L/2-e)\*WIDTH)

SQRT(M\*12\*6\*1.7\*.75/(.178\*12\*WIDTH)

MIN., THICKNESS W/O REBAR

ACTUAL THICKNESS

REBAR SCHEDULE SPREAD FOUNDATION DO NOT WELD REBAR 3" MIN. CONC. COVER

SI KLAD I GONDATION	N.	J MIIN. CO	NC. COVE
PLACEMENT	SIZE	SPACING	QUANTITY
LONG BOTTOM STEEL	#4	12"	4
LONG TOP STEEL	#4	12"	4
BOTTOM CROSS STEEL	#4	12"	6
TOP CROSS STEEL	#4	12"	6

GRADE

O

CONDUIT

CONDUIT

CONDUIT

SEE REBAR

OF CONC. REQ'D

PER FOUNDATION

ELEVATION

SIDE VIEW

OPTIONAL SPREAD FOUNDATION

INSTALLATION ADDRESS:

SHEETZ - #716 2201 NC 24-87 CAMERON, NC

CLIENT:

# blair

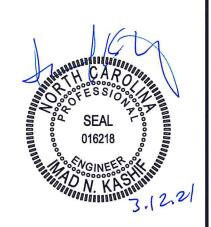
MAGE ELEMENTS

5107 KISSELL AVENUE ALTOONA, PA 16601 PHONE (814) 949-8287 FAX (814) 949-8293

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SEAL & SIGNATURE:





### LINK Engineering, L.L.C.

Phone: (865) 539-4001 • www.linkengr.com

Project No	ımber:	Drawing Num	ber:	
21-	-0162	B1071331		
SHT.	OF	DATE:	BY:	
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