

GLOBAL SITE PLAN

SCALE: N.T.S.

JONES SIGN
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JOB #: **250360-R11**
DATE: 12.14.2020
DESIGNER: S. Wiands
SALES REP:
PROJ MGR: S. KOSTKA

REV.	DATE	BY	DESCRIPTION
2	01.21.21	AR	REVISE PER COMMENTS
3	02.03.21	AR	REVISE PER MARK-UPS
4	02.12.21	AR	REVISE PER MARK-UPS
5	04.16.21	SW	REVISE PER MARK-UPS
6	04.23.21	SW	REVISE PER MARK-UPS
7	05.04.21	SW	REVISE PER MARK-UPS
8	05.20.21	SW	UPDATE ELEVATIONS AND VARIOUS
9	05.21.21	SW	UPDATE PER REQUEST
10	06.09.21	SW	REVISED PER REQUEST
11	06.25.21	SW	ADDED DT SIGNAGE

CLIENT APPROVAL	DATE
LANDLORD APPROVAL	DATE
QC	

SHAKE SHACK

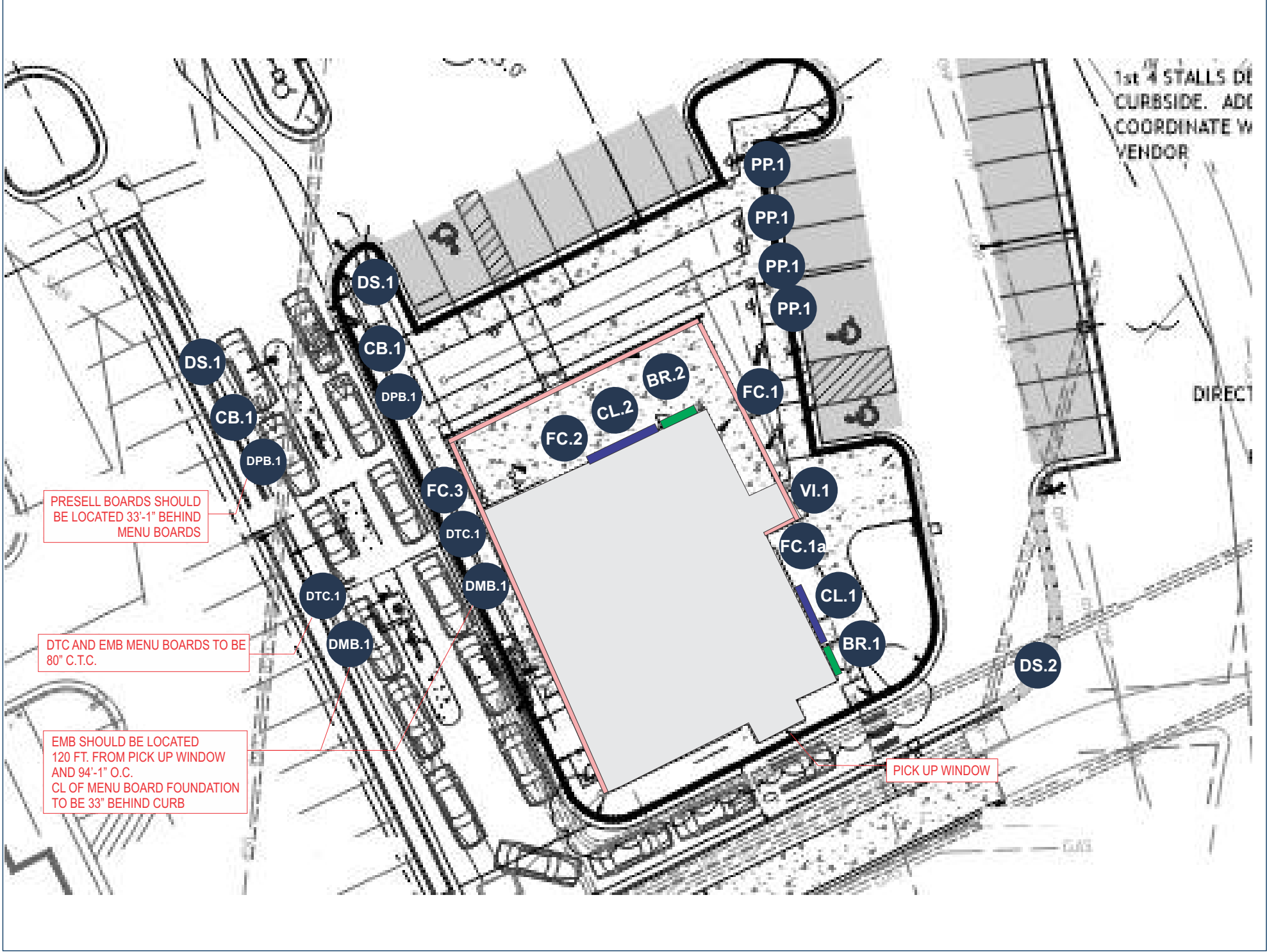
SHAKE SHACK
2051 NW LOWENSTEIN DR
LEE'S SUMMIT, MO 64081

DESIGN PHASE: CONCEPTUAL

SHEET NUMBER

0.0

EXTERIOR SITE PLAN



EXTERIOR - WORK SCOPE

- CL.1 BR.1 30" H CHANNEL LETTERS/30" PUSH THRU BURGER W/DRIVE THRU - WALL MOUNTED (QTY 1)
- CL.2 BR.2 30" H CHANNEL LETTERS/30" PUSH THRU BURGER W/DRIVE THRU (QTY 1)
- FC.1 10" EXTERIOR SIGN BAND FCO`S
- FC.2 10" EXTERIOR SIGN BAND FCO`S
- FC.3 10" EXTERIOR SIGN BAND FCO`S
- DS.1 ILLUMINATED DIRECTIONAL SIGN (QTY 2)
- DS.2 ILLUMINATED DIRECTIONAL SIGN (QTY 1)
- CB.1 CLEARANCE BAR (QTY 2)
- DPB.1 PRESALE MENU BOARD (QTY 2)
- DTC.1 DRIVE THRU CANOPY (QTY 2)
- DMB.1 EXTERIOR MENU BOARD (QTY 2)
- PP.1 CURBSIDE P/U PLACARD FOR P&P (QTY 4)
- VI.1 ADDRESS VINYL (QTY 2)
- TP.1 D/F PYLON REFACE (QTY 2)

CODE ALLOWANCE

ALLOW 2 ATTACHED SIGNS PER TENANT @ 10% OF BUILDING FACADE.
DIRECTIONAL SIGNS ALLOWED @ 6SF AND 30" OAH.



EXTERIOR LOCATION PLAN - Proposed

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2051 NW LOWENSTEIN DR
LEE`S SUMMIT, MO 64081

DESIGN PHASE: CONCEPTUAL

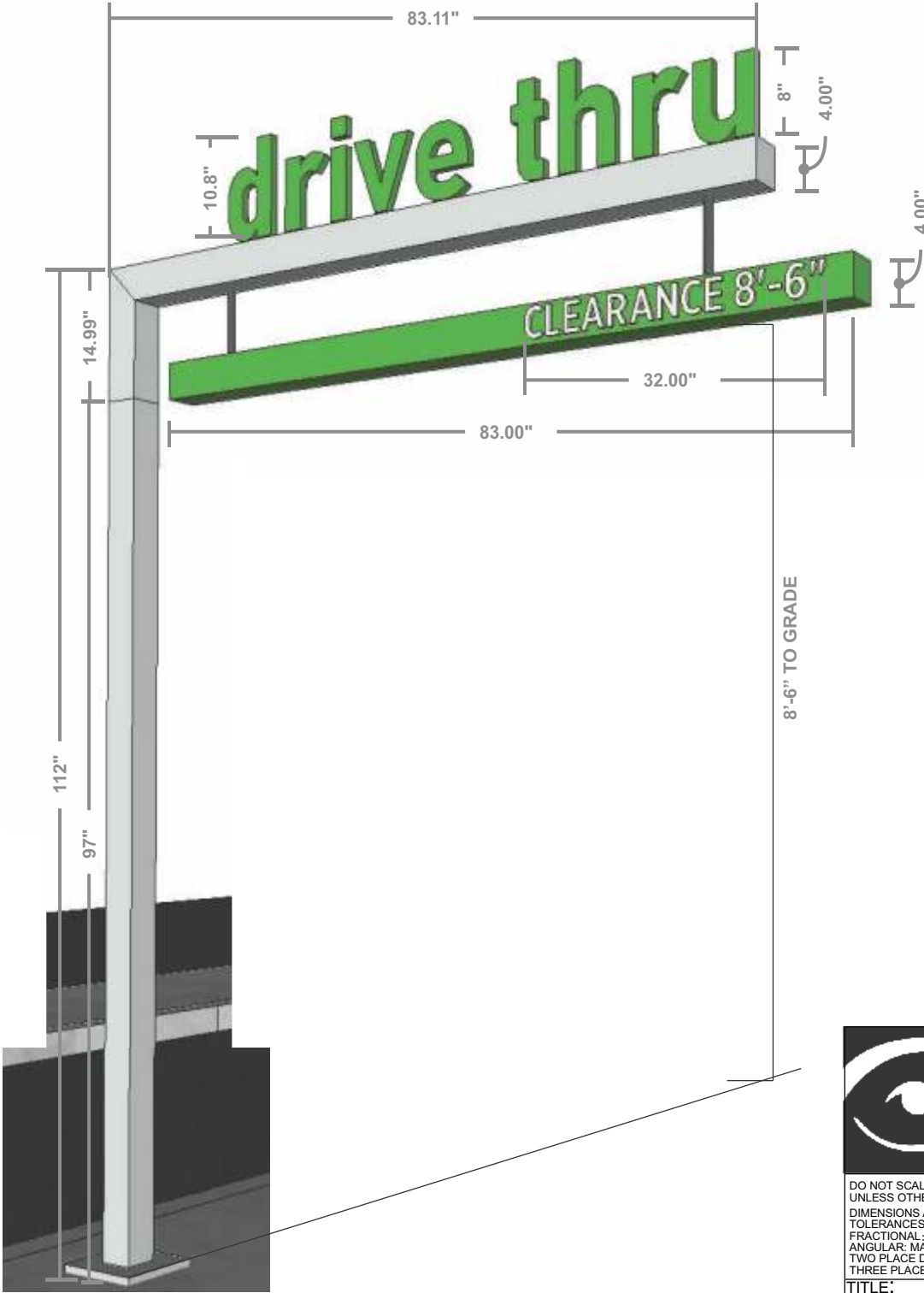
SHEET NUMBER

0.1

CB.1 CLEARANCE BAR (QTY 2)

SQUARE FOOTAGE (drive thru): 5.99


SQUARE FOOTAGE (Clearance): .61



SPECIFICATIONS TBD

COLORS/FINISHES - TBD
P-1 TBD

FRONT VIEW
SCALE: NTS



DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± 1/32
ANGULAR: MACH ± 1° BEND ± 1°
TWO PLACE DECIMAL ± 0.03
THREE PLACE DECIMAL ± .015

Visual Graphics Systems
330 Washington Avenue
Carlstadt, NJ 07072
t 800 203 0301 f 201 528 0890

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APPROVALS	DATE
DRAWN BY: MT	05/21/2021
CHECKED BY:	
APP'D BY:	
SCALE: 1:24	SHEET 1 OF 1

TITLE:

DRIVE THRU CLEARANCE BAR
SINGLE LEG

DWG. NO.

DT-SGL-LEG-CLEARANCE-BAR-[SS]

SIZE

B

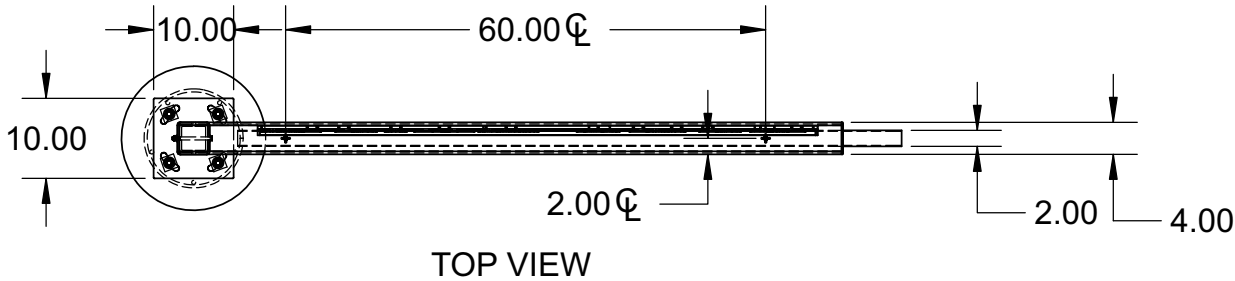
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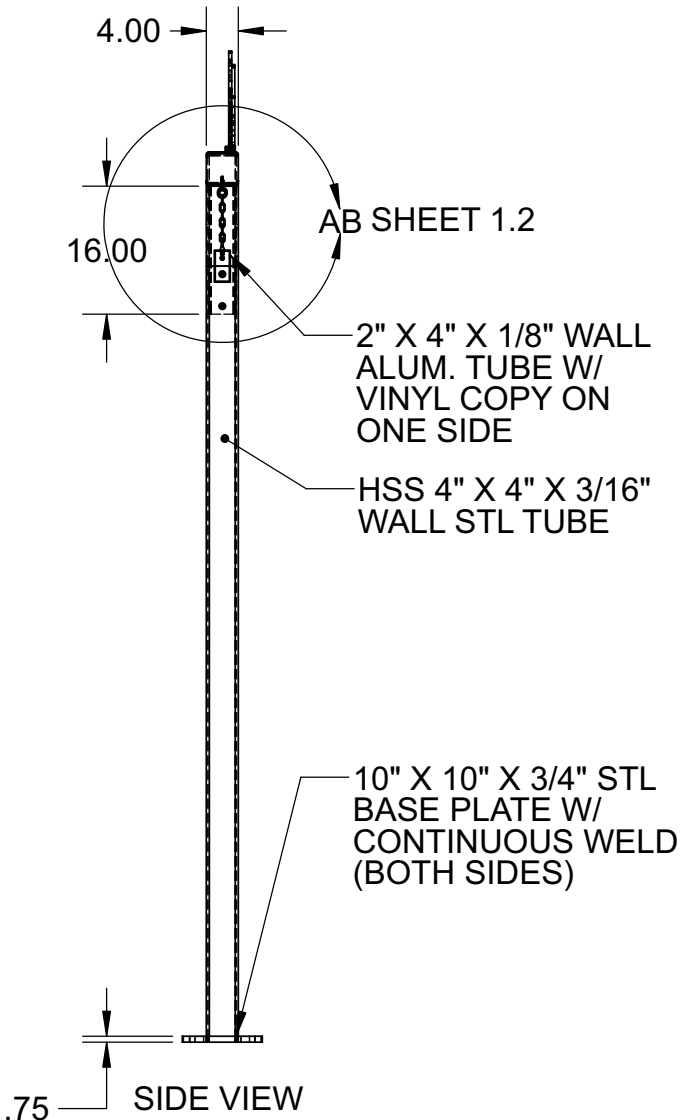
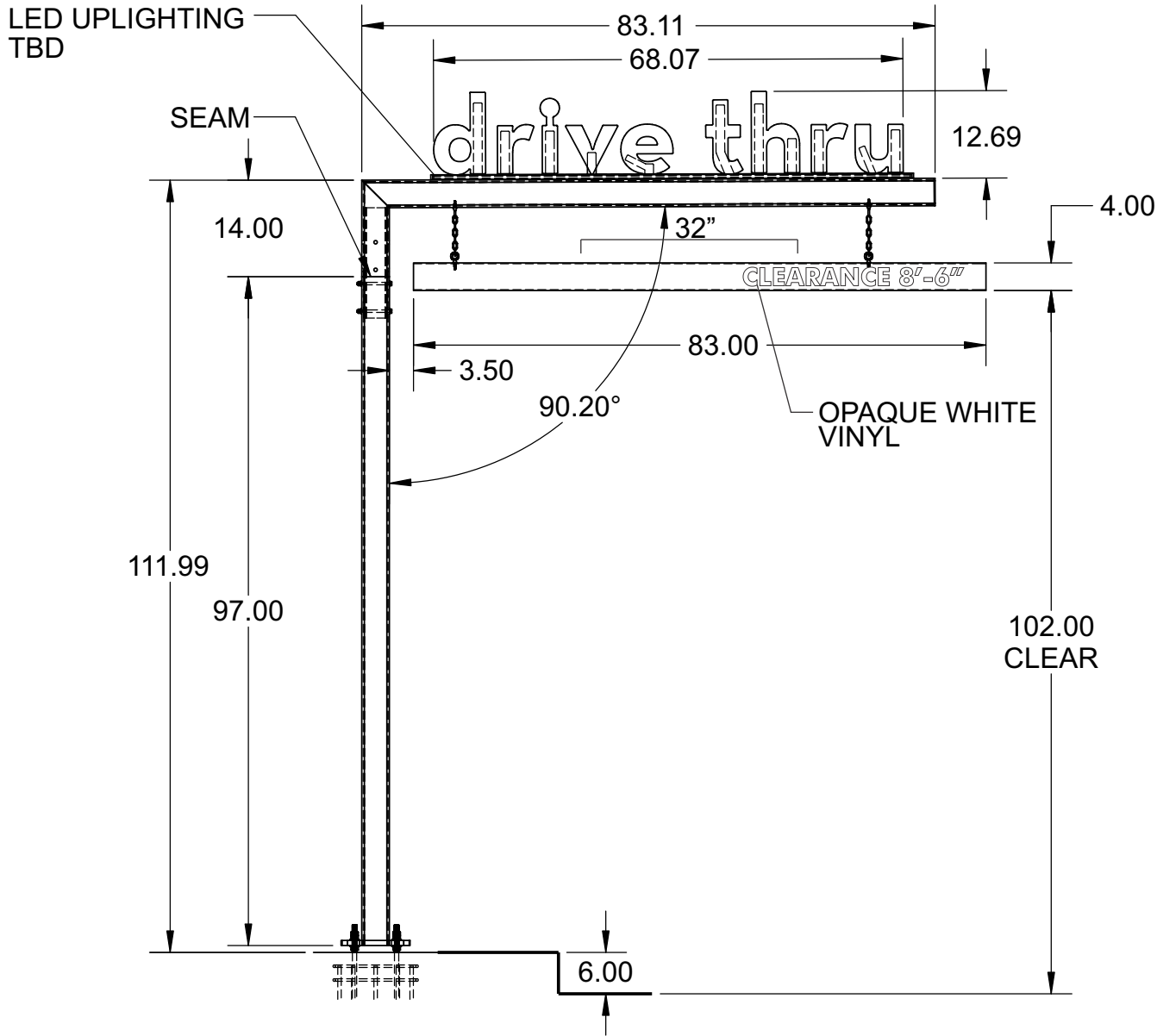
<div><div>JONES SIGN</div><div>Your Vision. Accomplished.</div><div>WWW.JONESSIGN.COM</div></div>	<div>JOB #: 250360-R11</div> <div>DATE: 12.14.2020</div> <div>DESIGNER: S. Wiands</div> <div>SALES REP:</div> <div>PROJ MGR: S. KOSTKA</div>	<div>REV.</div> <div>DATE</div> <div>BY</div> <div>DESCRIPTION</div>	CLIENT APPROVAL	DATE	SHAKE SHACK	SHAKE SHACK 2051 NW LOWENSTEIN DR LEE'S SUMMIT, MO 64081	SHEET NUMBER
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CB.1 CLEARANCE BAR (QTY 2)



DESIGN SPECIFICATIONS			
IBC	2018	with	MO amendments
ASCE	7-16	Minimum Design Loads for Buildings & Other Structures	
ACI	318-14	Building Code Requirements for Structural Concrete	
ANSI/AISC	360-16	Specification for Structural Steel Buildings	
DESIGN LOADS			
Wind	V =	115 mph	
Exposure	C		
Risk Cat.	II		
Grnd. Snow	Pg =	20 psf	



MURDOCH
ENGINEERING

SIGN STRUCTURE PROFESSIONALS

2 HUMMINGBIRD CT. Project: 2132052

HOWELL, NJ 07731

(973) 570-8255

6/30/2021

Rev. 7/20/2021

STATE OF MISSOURI

JERE MURDOCH

NUMBER
PE-2014038163

PROFESSIONAL ENGINEER

Jere Murdoch, PE

Professional Engineer

MO PE Lic. #2014038163

Exp. 12/31/2022

SHAKE SHACK

2051 NW LOWENSTEIN DR

LEE'S SUMMIT, MO 64081

SHEET NUMBER

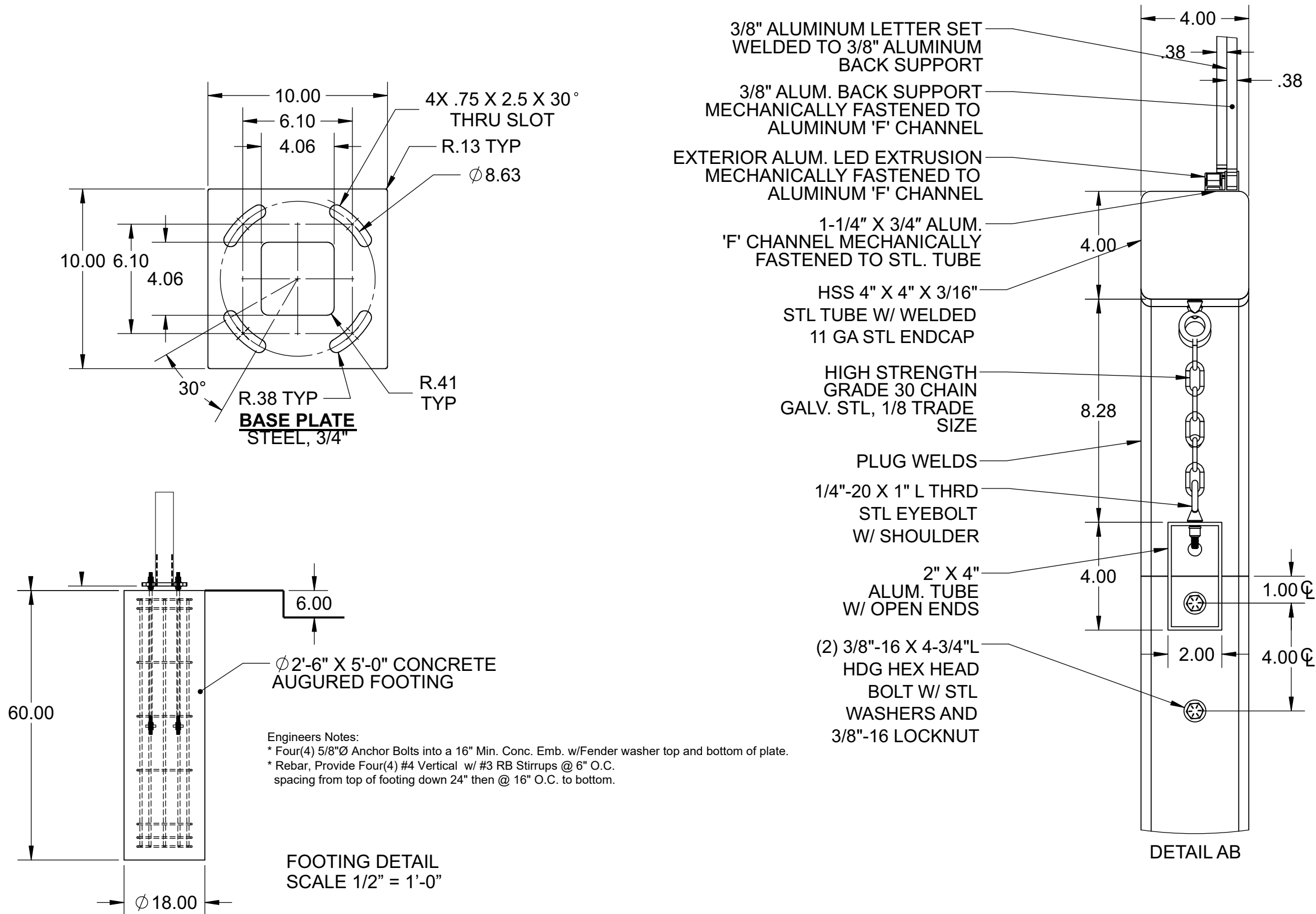
6.1

<div><div>JONES SIGN</div><div>Your Vision. Accomplished.</div><div>WWW.JONESSIGN.COM</div></div>	<div>JOB #: 250360-R11</div> <div>DATE: 12.14.2020</div> <div>DESIGNER: S. Wiands</div> <div>SALES REP:</div> <div>PROJ MGR: S. KOSTKA</div>	<table><tr><th>REV.</th><th>DATE</th><th>BY</th><th>DESCRIPTION</th></tr><tr><td>2</td><td>01.21.21</td><td>AR</td><td>REVISE PER COMMENTS</td></tr><tr><td>3</td><td>02.03.21</td><td>AR</td><td>REVISE PER MARK-UPS</td></tr><tr><td>4</td><td>02.12.21</td><td>AR</td><td>REVISE PER MARK-UPS</td></tr><tr><td>5</td><td>04.16.21</td><td>SW</td><td>REVISE PER MARK-UPS</td></tr><tr><td>6</td><td>04.23.21</td><td>SW</td><td>REVISE PER MARK-UPS</td></tr><tr><td>7</td><td>05.04.21</td><td>SW</td><td>REVISE PER MARK-UPS</td></tr><tr><td>8</td><td>05.20.21</td><td>SW</td><td>UPDATE ELEVATIONS AND VARIOUS</td></tr><tr><td>9</td><td>05.21.21</td><td>SW</td><td>UPDATE PER REQUEST</td></tr><tr><td>10</td><td>06.09.21</td><td>SW</td><td>REVISED PER REQUEST</td></tr><tr><td>11</td><td>06.25.21</td><td>SW</td><td>ADDED DT SIGNAGE</td></tr></table>	REV.	DATE	BY	DESCRIPTION	2	01.21.21	AR	REVISE PER COMMENTS	3	02.03.21	AR	REVISE PER MARK-UPS	4	02.12.21	AR	REVISE PER MARK-UPS	5	04.16.21	SW	REVISE PER MARK-UPS	6	04.23.21	SW	REVISE PER MARK-UPS	7	05.04.21	SW	REVISE PER MARK-UPS	8	05.20.21	SW	UPDATE ELEVATIONS AND VARIOUS	9	05.21.21	SW	UPDATE PER REQUEST	10	06.09.21	SW	REVISED PER REQUEST	11	06.25.21	SW	ADDED DT SIGNAGE	<table><tr><td>CLIENT APPROVAL</td><td>DATE</td></tr><tr><td>LANDLORD APPROVAL</td><td>DATE</td></tr><tr><td>QC</td><td></td></tr></table>	CLIENT APPROVAL	DATE	LANDLORD APPROVAL	DATE	QC		<div>SHAKE SHACK</div>	<div>DESIGN PHASE: CONCEPTUAL</div>	<div>SHEET NUMBER</div> <div>6.1</div>
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CB.1 CLEARANCE BAR (QTY 2)

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DESIGN LOADS			
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Exposure	C		
Risk Cat.	II		
Grnd. Snow	Pg =	20 psf	

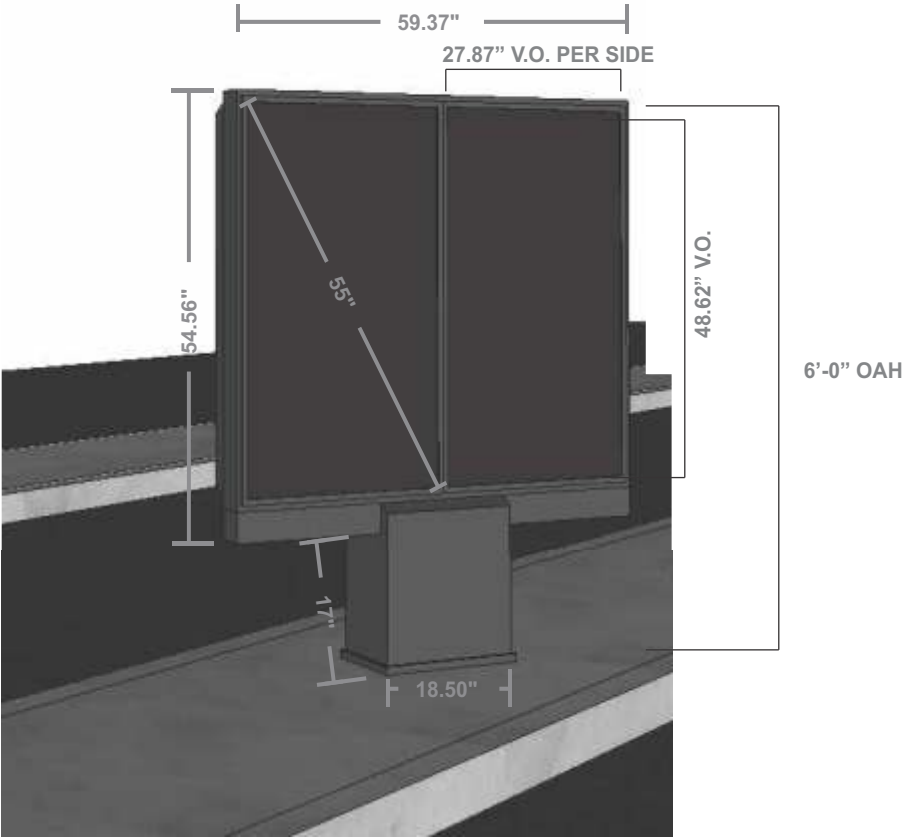


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DPB.1PRESALE MENU BOARD (QTY 2)

SQUARE FOOTAGE: 18.8



SPECIFICATIONS TBD

COLORS/FINISHES - TBD
P-1 TBD

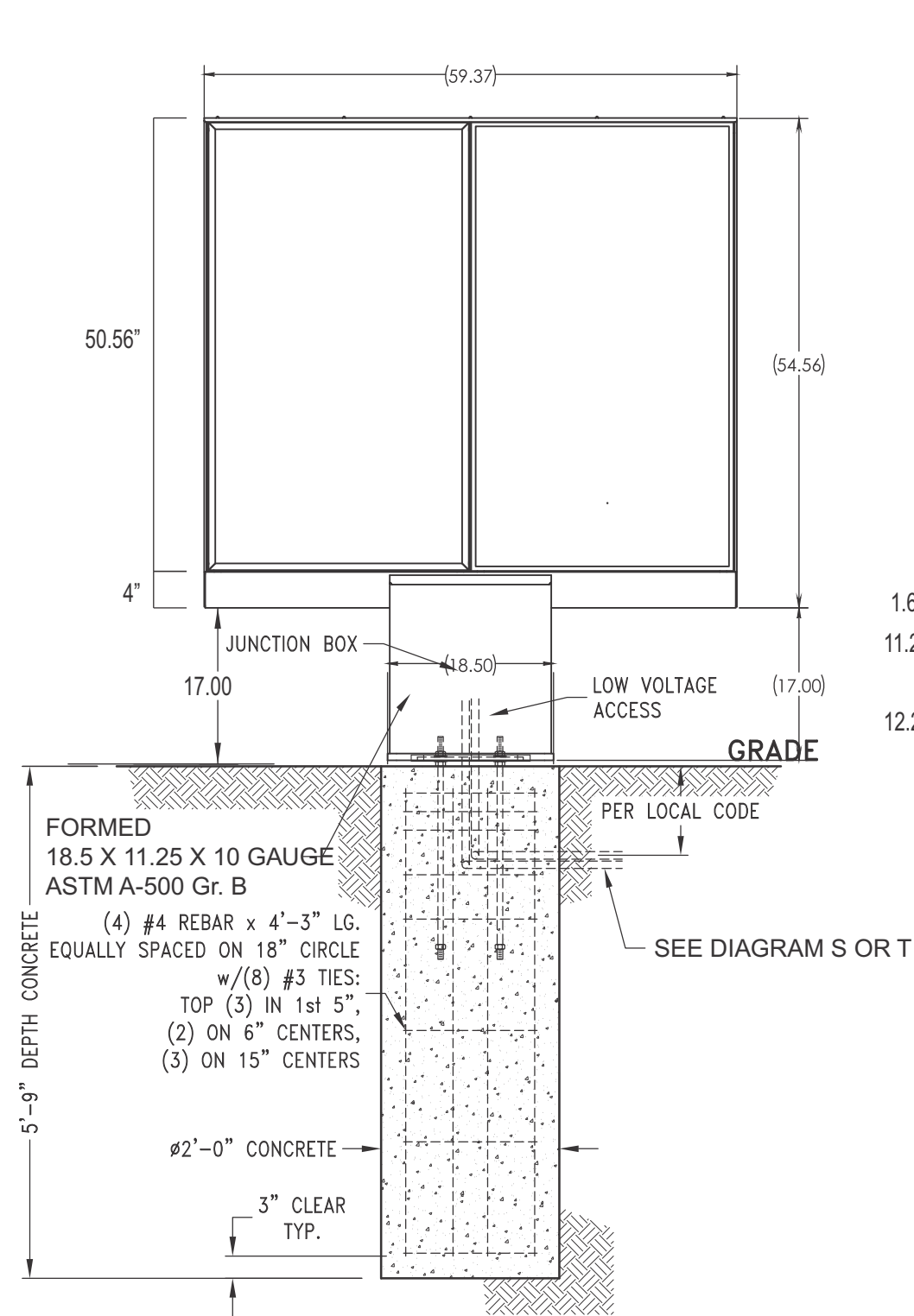
FRONT VIEW
SCALE: NTS



DT FLEX 2 5-17-19

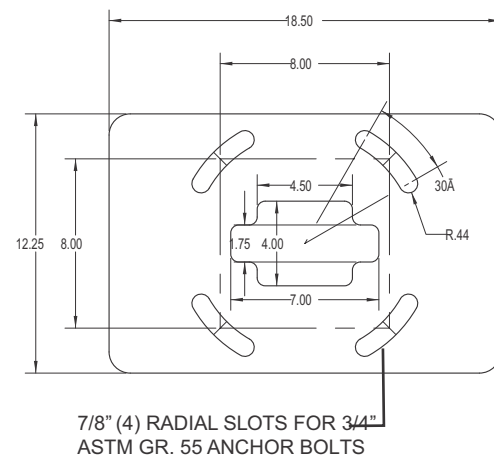
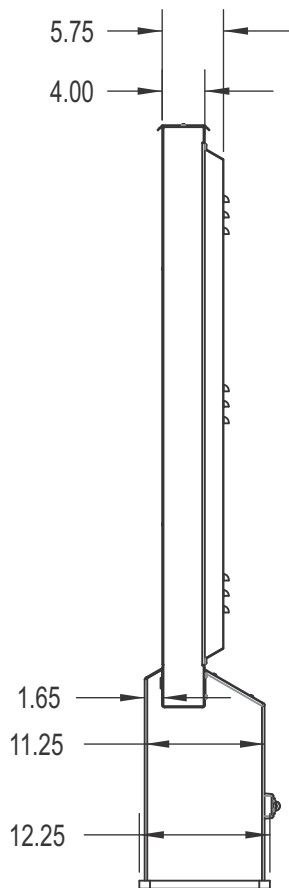
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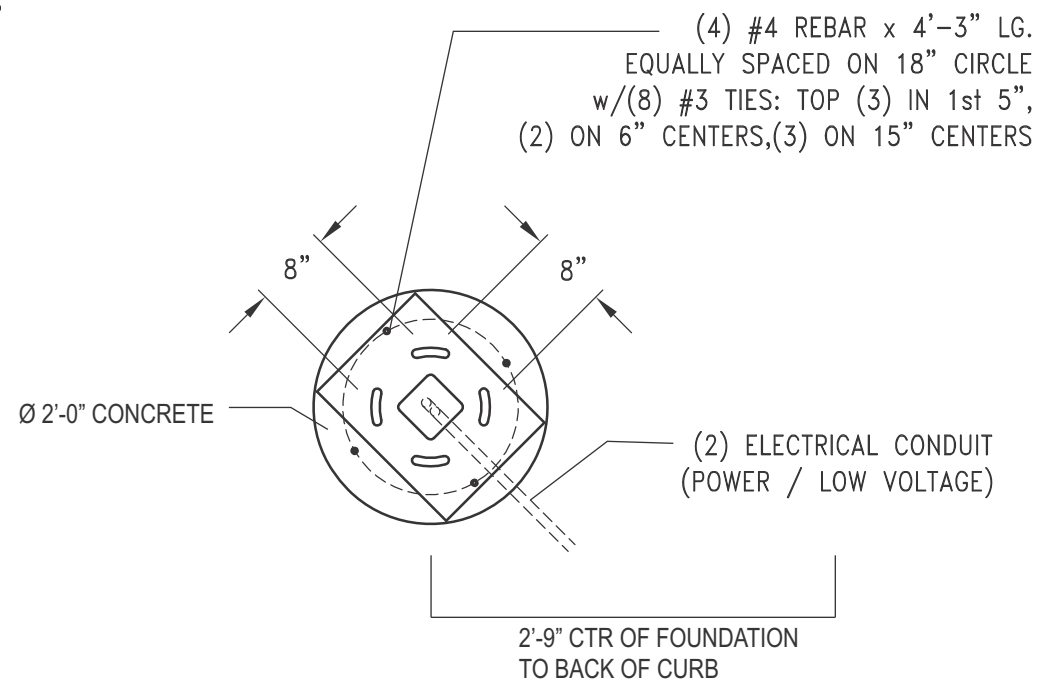


ELEVATION VIEW

SEE DETAIL VIEWS – SHEET 3



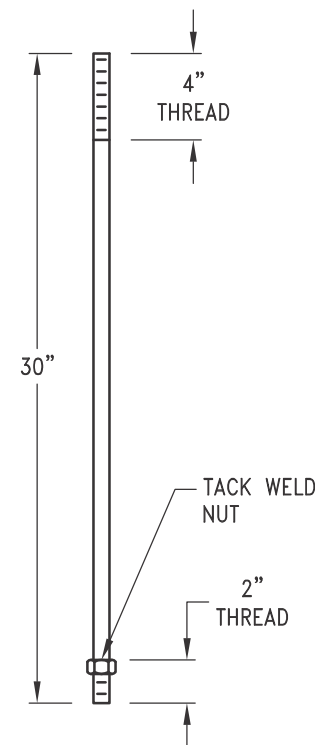
BASE PLATE DETAIL
3/4" ASTM A-36 STEEL



PLAN VIEW

QTY. CONCRETE: 0.7 CU. YDS.

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DESIGN LOADS			
Wind	V =	115	mph
Exposure	C		
Risk Cat.	II		
Grnd. Snow	Pg =	20	psf



Engineers Note:
Murdoch Engineering scope of work to baseplate, anchor bolt and footing.
Sign box pre-engineered to withstand applicable loading.

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STATE OF MISSOURI

JERE MURDOCH

PROFESSIONAL ENGINEER

NUMBER
PE-2014038163

MURDOCH ENGINEERING
SIGN STRUCTURE PROFESSIONALS
2 HUMMINGBIRD CT. Project: 2132052
HOWELL, NJ 07731
(973) 570-8255

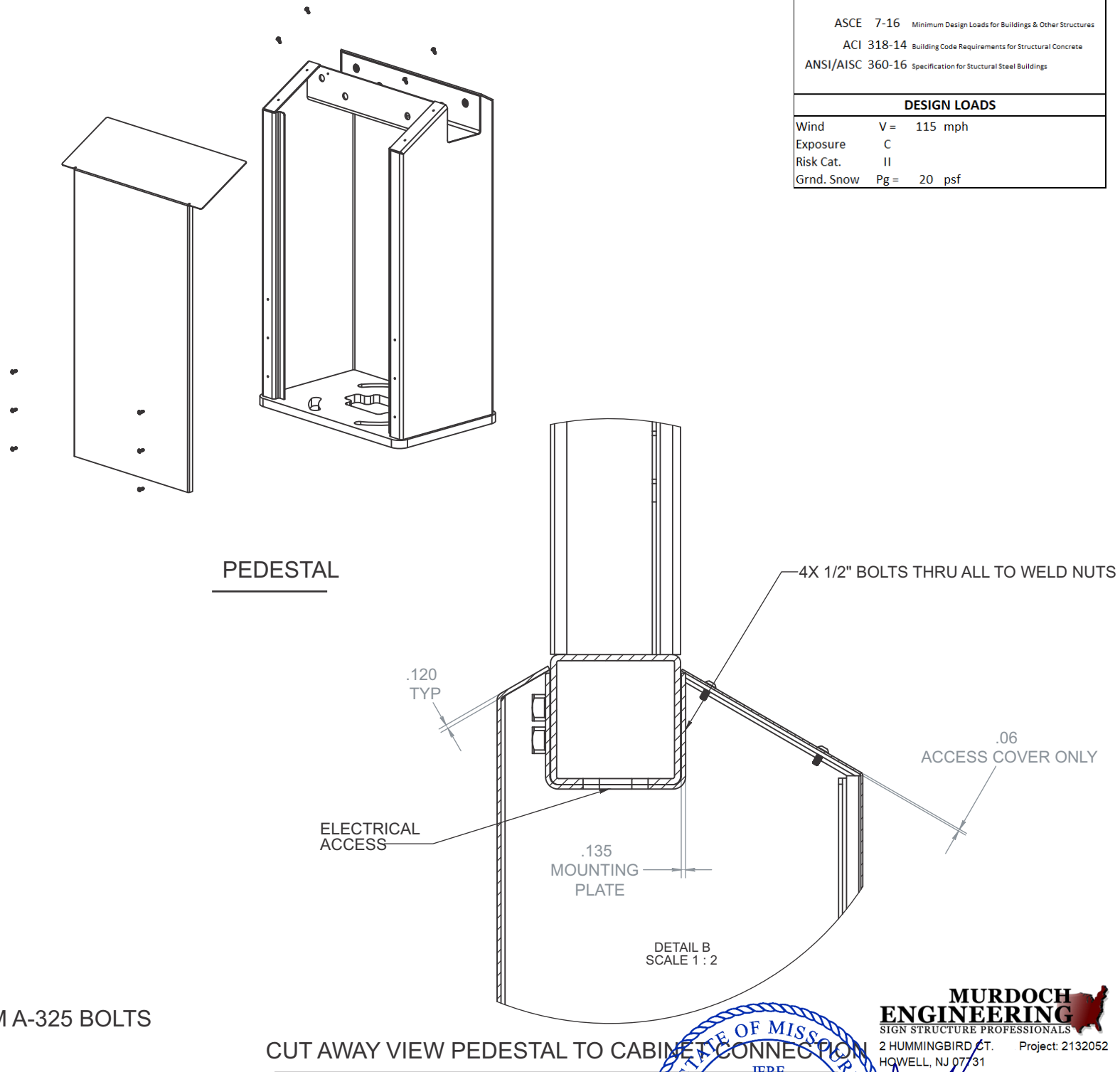
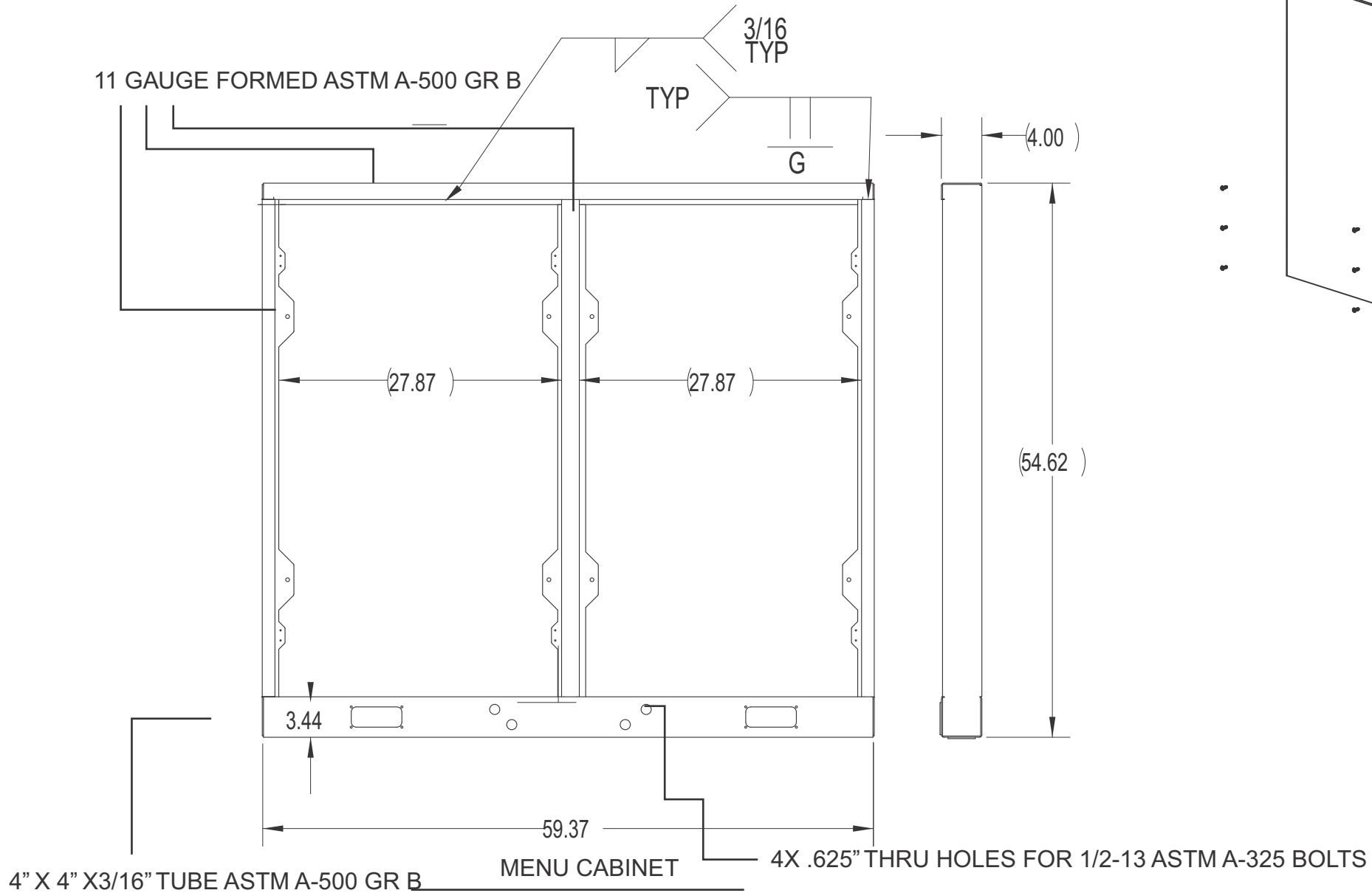
Jere Murdoch
Jere Murdoch, PE
Professional Engineer
MO PE Lic. #2014038163
Exp. 12/31/2022

6/30/2021
Rev. 7/20/2021

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DPB.1 PRESALE MENU

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Wind	V =	115 mph	
Exposure	C		
Risk Cat.	II		
Grnd. Snow	Pg =	20 psf	

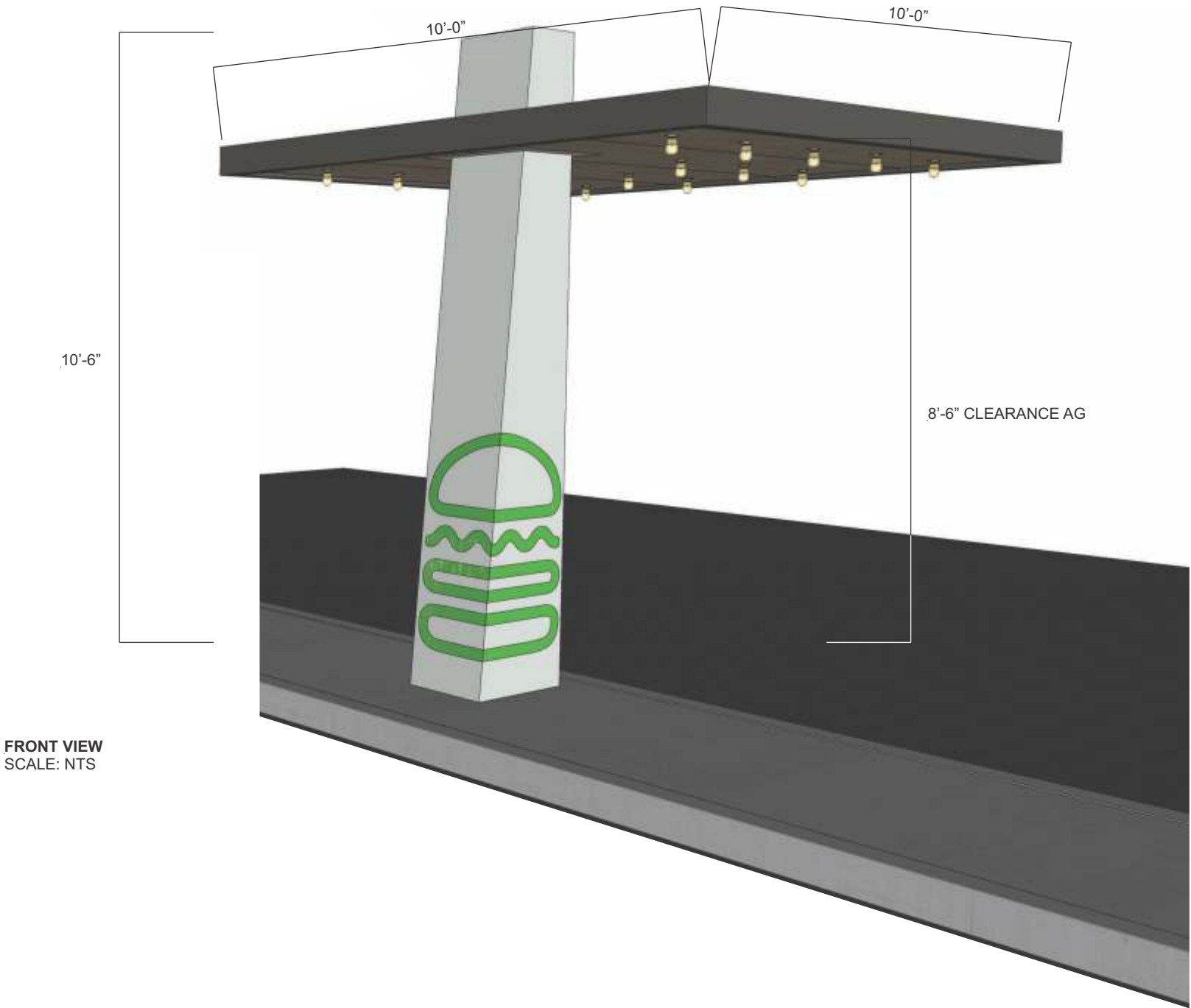


<div><div>JONES SIGN</div><div>Your Vision. Accomplished.</div><div>WWW.JONESSIGN.COM</div></div>	<div>JOB #: 250360-R11</div> <div>DATE: 12.14.2020</div> <div>DESIGNER: S. Wiands</div> <div>SALES REP:</div> <div>PROJ MGR: S. KOSTKA</div>	REV.	DATE	BY	DESCRIPTION	CLIENT APPROVAL	DATE	<div><div>SHAKE SHACK</div><div>2051 NW LOWENSTEIN DR LEE'S SUMMIT, MO 64081</div><div>DESIGN PHASE: CONCEPTUAL</div></div>	<div><div>SHEET NUMBER</div><div>7.2</div></div>
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		3	02.03.21	AR	REVISE PER MARK-UPS				
		4	02.12.21	AR	REVISE PER MARK-UPS				
		5	04.16.21	SW	REVISE PER MARK-UPS				
		6	04.23.21	SW	REVISE PER MARK-UPS				
		7	05.04.21	SW	REVISE PER MARK-UPS				
		8	05.20.21	SW	UPDATE ELEVATIONS AND VARIOUS				
		9	05.21.21	SW	UPDATE PER REQUEST				
		10	06.09.21	SW	REVISED PER REQUEST				
		11	06.25.21	SW	ADDED DT SIGNAGE				
						QC			

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DTC.1 DRIVE THRU CANOPY (QTY 2)

BURGER SQUARE FOOTAGE: 11.0




FRONT VIEW
SCALE: NTS

SPECIFICATIONS TBD

COLORS/FINISHES - TBD

 **P-1** SW 7069 - IRON ORE - MATTE FINISH



Visual Graphics Systems
330 Washington Avenue
Carlstadt, NJ 07072
t 800 203 0301 f 201 528 0890

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APPROVALS	DATE
DRAWN BY: MT	05/20/2021
CHECKED BY: JM	06/18/2021
APP'D BY: BC	06/18/2021
SCALE: 1:24	SHEET 2 OF 4

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ± 1/32
ANGULAR: MACH ± 1° BEND ± 1°
TWO PLACE DECIMAL ± 0.03
THREE PLACE DECIMAL ± .015

TITLE:

DRIVE THRU CANOPY
120" X 120" X 133"

DWG. NO.

DT-SGL-LEG-CANOPY-[SS]-TYP

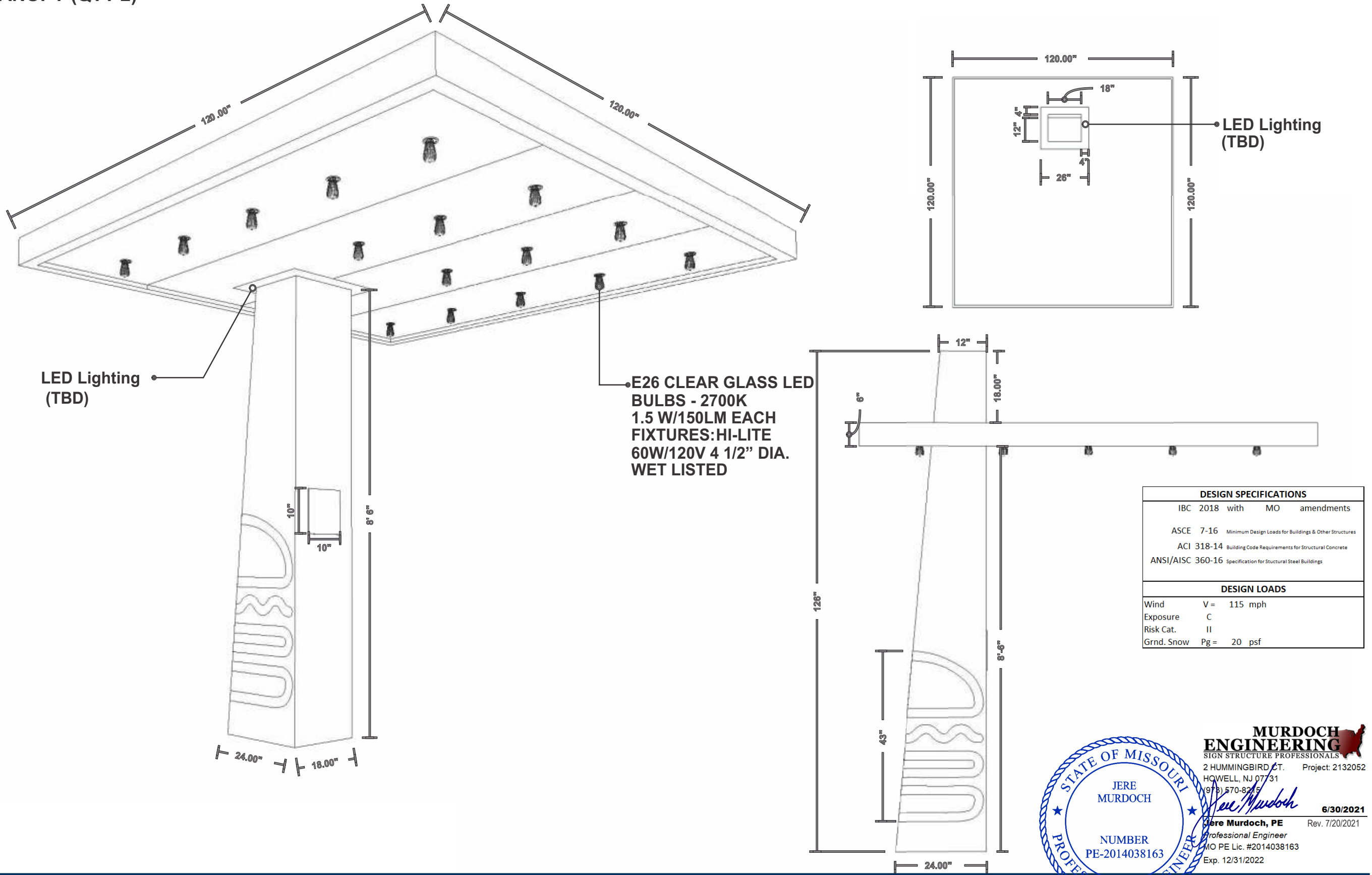
SIZE
B

REV
A

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	DESIGNER: S. Wiands	3	02.03.21	AR	REVISE PER MARK-UPS					
	SALES REP:	4	02.12.21	AR	REVISE PER MARK-UPS					
	PROJ MGR: S. KOSTKA	5	04.16.21	SW	REVISE PER MARK-UPS					
		6	04.23.21	SW	REVISE PER MARK-UPS					
		7	05.04.21	SW	REVISE PER MARK-UPS				QC	
		8	05.20.21	SW	UPDATE ELEVATIONS AND VARIOUS				DESIGN PHASE: CONCEPTUAL	
		9	05.21.21	SW	UPDATE PER REQUEST					
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		11	06.25.21	SW	ADDED DT SIGNAGE					

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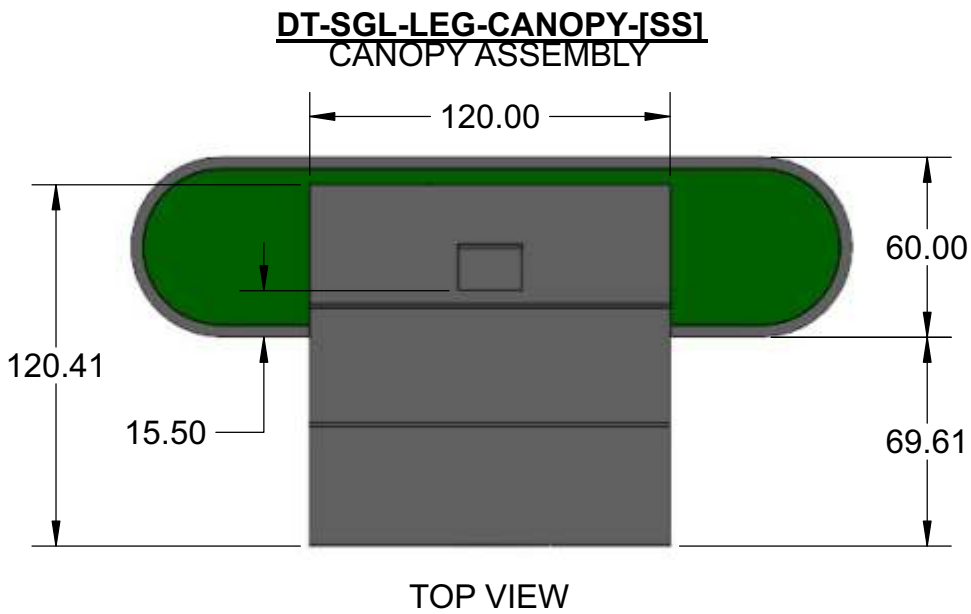
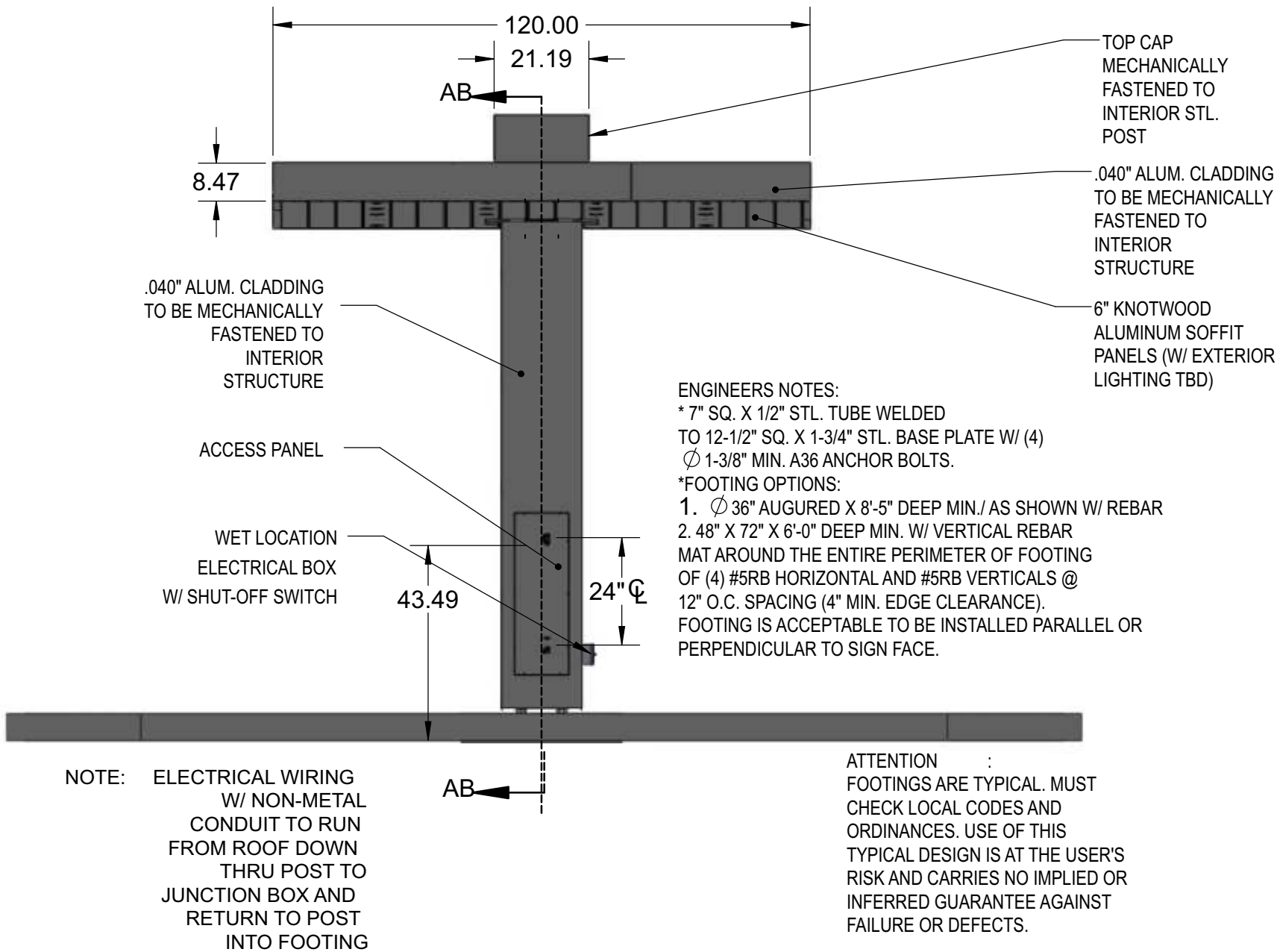
DTC.1 DRIVE THRU CANOPY (QTY 2)



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		<div>2</div> <div>01.21.21</div> <div>AR</div> <div>REVISE PER COMMENTS</div>	<div>LANDLORD APPROVAL</div> <div>DATE</div>		
		<div>3</div> <div>02.03.21</div> <div>AR</div> <div>REVISE PER MARK-UPS</div>	<div>QC</div>		
		<div>4</div> <div>02.12.21</div> <div>AR</div> <div>REVISE PER MARK-UPS</div>			

DTC.1 DRIVE THRU CANOPY (QTY 2)

DESIGN SPECIFICATIONS			
IBC	2018	with	MO amendments
ASCE	7-16	Minimum Design Loads for Buildings & Other Structures	
ACI	318-14	Building Code Requirements for Structural Concrete	
ANSI/AISC	360-16	Specification for Structural Steel Buildings	
DESIGN LOADS			
Wind	V =	115 mph	
Exposure	C		
Risk Cat.	II		
Grnd. Snow	Pg =	20 psf	





JERE
MURDOCH

NUMBER
PE-2014038163

ENGINEERING
SIGN STRUCTURE PROFESSIONALS

2 HUMMINGBIRD CT. Project: 2132052
HOWELL, NJ 07731
(978) 570-8215

Jere Murdoch

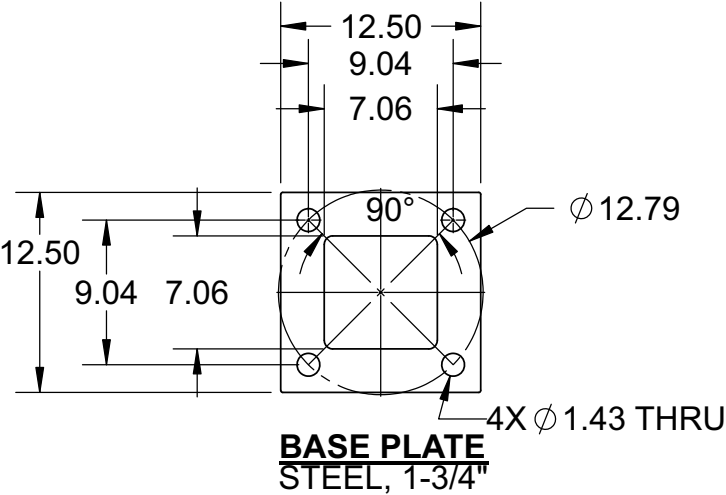
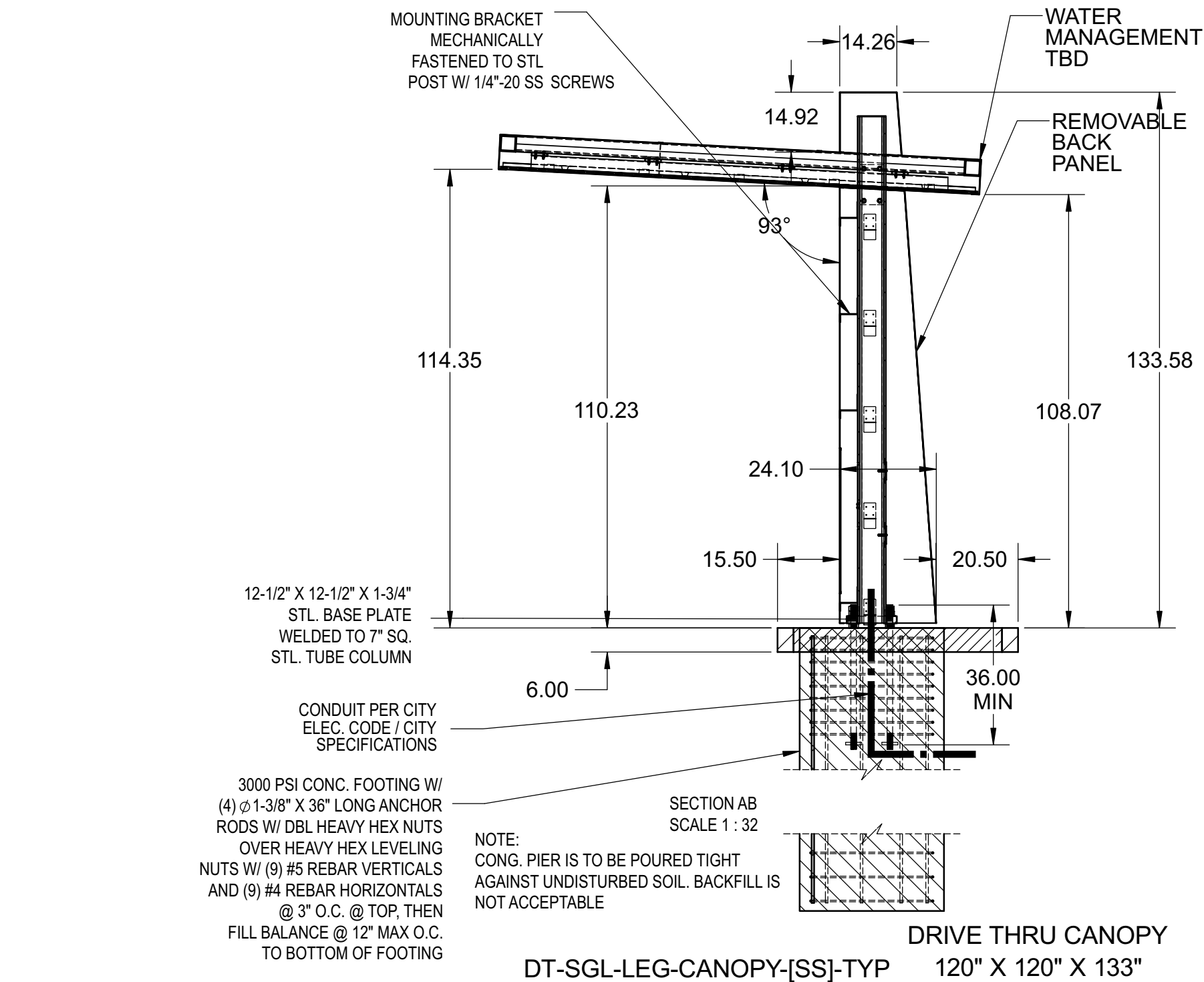
6/30/2021

Jere Murdoch, PE Rev. 7/20/2021
Professional Engineer
MO PE Lic. #2014038163
Exp. 12/31/2022

<div><div>JONES SIGN</div><div>Your Vision. Accomplished.</div><div>WWW.JONESSIGN.COM</div></div>	JOB #: 250360-R11	<table><tr><th>REV.</th><th>DATE</th><th>BY</th><th>DESCRIPTION</th></tr><tr><td>2</td><td>01.21.21</td><td>AR</td><td>REVISE PER COMMENTS</td></tr><tr><td>3</td><td>02.03.21</td><td>AR</td><td>REVISE PER MARK-UPS</td></tr><tr><td>4</td><td>02.12.21</td><td>AR</td><td>REVISE PER MARK-UPS</td></tr><tr><td>5</td><td>04.16.21</td><td>SW</td><td>REVISE PER MARK-UPS</td></tr><tr><td>6</td><td>04.23.21</td><td>SW</td><td>REVISE PER MARK-UPS</td></tr><tr><td>7</td><td>05.04.21</td><td>SW</td><td>REVISE PER MARK-UPS</td></tr><tr><td>8</td><td>05.20.21</td><td>SW</td><td>UPDATE ELEVATIONS AND VARIOUS</td></tr><tr><td>9</td><td>05.21.21</td><td>SW</td><td>UPDATE PER REQUEST</td></tr><tr><td>10</td><td>06.09.21</td><td>SW</td><td>REVISED PER REQUEST</td></tr><tr><td>11</td><td>06.25.21</td><td>SW</td><td>ADDED DT SIGNAGE</td></tr></table>	REV.	DATE	BY	DESCRIPTION	2	01.21.21	AR	REVISE PER COMMENTS	3	02.03.21	AR	REVISE PER MARK-UPS	4	02.12.21	AR	REVISE PER MARK-UPS	5	04.16.21	SW	REVISE PER MARK-UPS	6	04.23.21	SW	REVISE PER MARK-UPS	7	05.04.21	SW	REVISE PER MARK-UPS	8	05.20.21	SW	UPDATE ELEVATIONS AND VARIOUS	9	05.21.21	SW	UPDATE PER REQUEST	10	06.09.21	SW	REVISED PER REQUEST	11	06.25.21	SW	ADDED DT SIGNAGE	<table><tr><td>CLIENT APPROVAL</td><td>DATE</td></tr><tr><td>LANDLORD APPROVAL</td><td>DATE</td></tr><tr><td>QC</td><td></td></tr></table>	CLIENT APPROVAL	DATE	LANDLORD APPROVAL	DATE	QC		<div>SHAKE SHACK</div> <div>2051 NW LOWENSTEIN DR LEE'S SUMMIT, MO 64081</div> <div>DESIGN PHASE: CONCEPTUAL</div>	<div>SHAKE SHACK ENGINEERING</div> <div>2051 NW LOWENSTEIN DR LEE'S SUMMIT, MO 64081</div> <div>8.2</div>
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DTC.1 DRIVE THRU CANOPY (QTY 2)



DESIGN SPECIFICATIONS			
IBC	2018	with	MO amendments
ASCE	7-16	Minimum Design Loads for Buildings & Other Structures	
ACI	318-14	Building Code Requirements for Structural Concrete	
ANSI/AISC	360-16	Specification for Structural Steel Buildings	
DESIGN LOADS			
Wind	V =	115 mph	
Exposure	C		
Risk Cat.	II		
Grnd. Snow	Pg =	20 psf	

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JOB #: 250360-R11

DATE: 12.14.2020

DESIGNER: S. Wiands

SALES REP:

PROJ MGR: S. KOSTKA

REV.	DATE	BY	DESCRIPTION
2	01.21.21	AR	REVISE PER COMMENTS
3	02.03.21	AR	REVISE PER MARK-UPS
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10	06.09.21	SW	REVISED PER REQUEST
11	06.25.21	SW	ADDED DT SIGNAGE

CLIENT APPROVAL	DATE
LANDLORD APPROVAL	DATE
QC	

SHAKE SHACK

SHAKE SHACK

2051 NW LOWENSTEIN DR

LEE'S SUMMIT, MO 64081

DESIGN PHASE: CONCEPTUAL

SHEET NUMBER

8.3

MURDOCH ENGINEERING

SIGN STRUCTURE PROFESSIONALS

2 HUMMINGBIRD CT. Project: 2132052

HOWELL, NJ 07731

(973) 570-8255

6/30/2021

Rev. 7/20/2021

STATE OF MISSOURI

JERE MURDOCH

NUMBER PE-2014038163

PROFESSIONAL ENGINEER

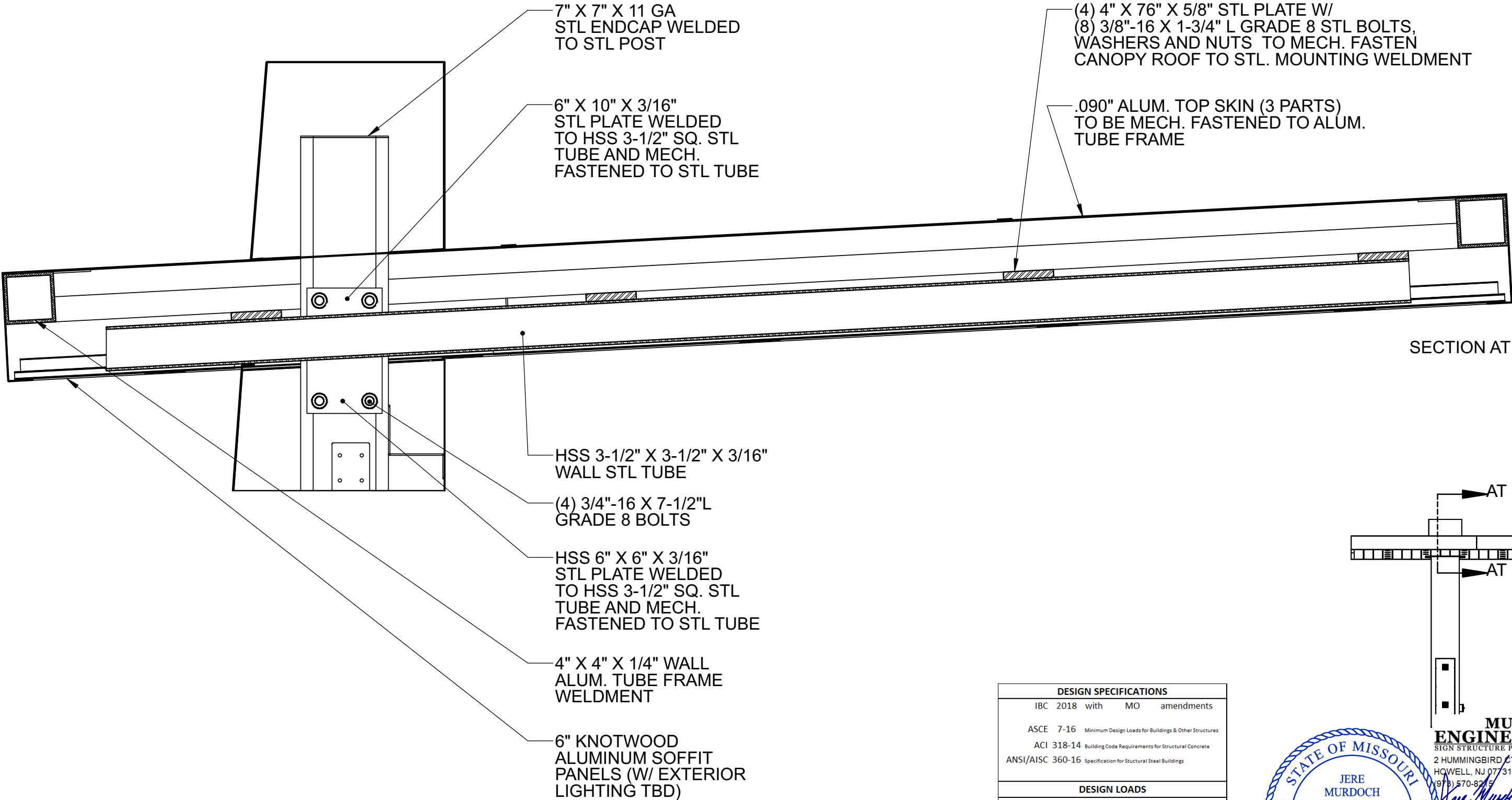
Jere Murdoch, PE

Professional Engineer

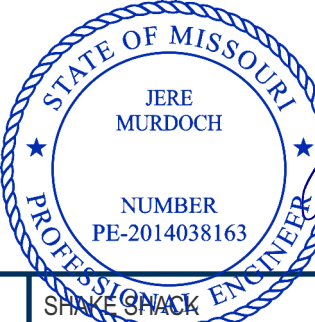
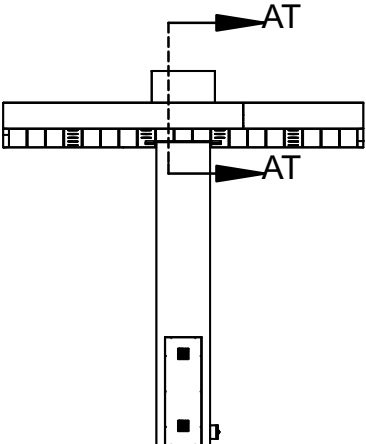
MO PE Lic. #2014038163

Exp. 12/31/2022

DTC.1 DRIVE THRU CANOPY (QTY 2)



DESIGN SPECIFICATIONS			
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DESIGN LOADS			
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Exposure	C		
Risk Cat.	II		
Grnd. Snow	Pg =	20 psf	

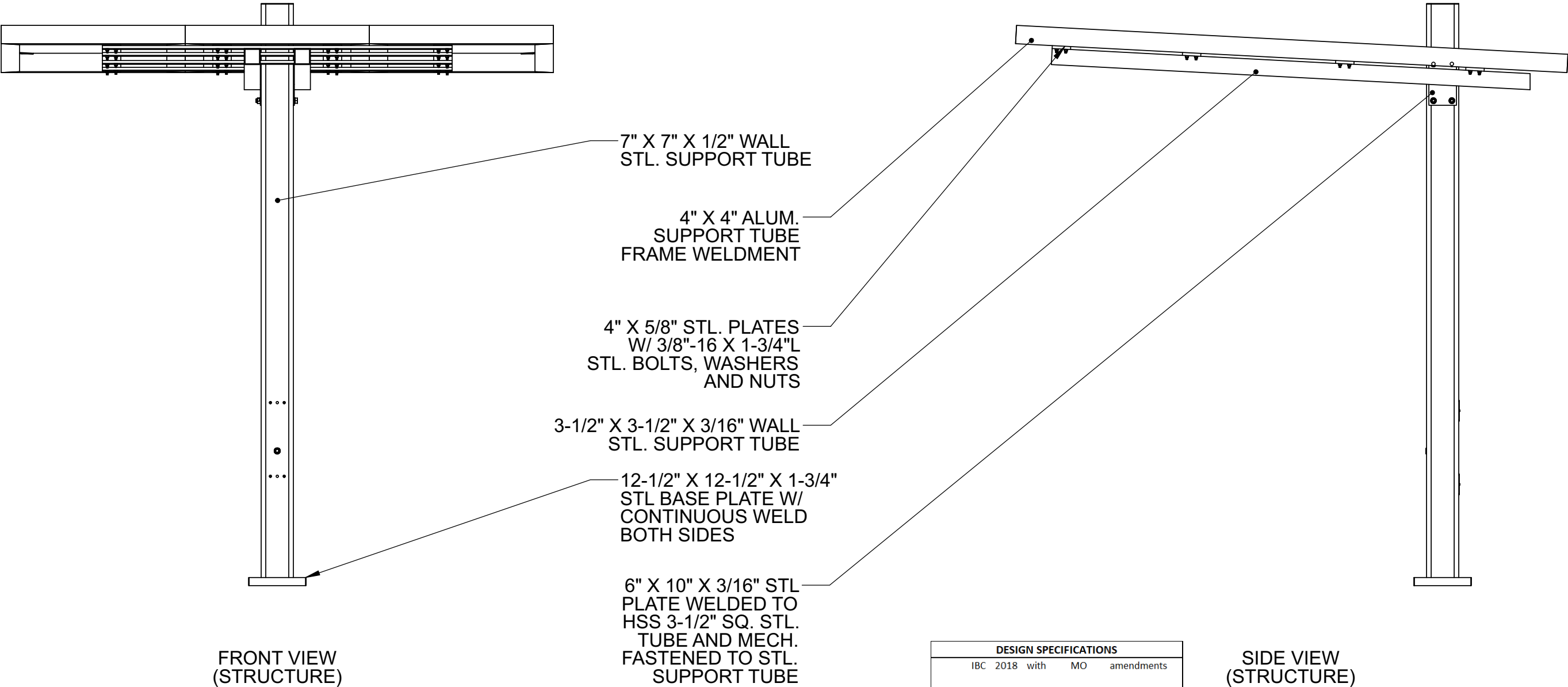


MURDOCH ENGINEERING
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Jere Murdoch
Jere Murdoch, PE 6/30/2021
Professional Engineer Rev. 7/20/2021
MO PE Lic. #2014038163
Exp. 12/31/2022

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	DESIGNER: S. Wiands	3	02.03.21	AR	REVISE PER MARK-UPS					
	SALES REP:	4	02.12.21	AR	REVISE PER MARK-UPS					
PROJ MGR: S. KOSTKA	5	04.16.21	SW	REVISE PER MARK-UPS	7	05.04.21	SW	REVISE PER MARK-UPS		
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DTC.1 DRIVE THRU CANOPY (QTY 2)



DESIGN SPECIFICATIONS			
IBC	2018	with	MO amendments
ASCE	7-16	Minimum Design Loads for Buildings & Other Structures	
ACI	318-14	Building Code Requirements for Structural Concrete	
ANSI/AISC	360-16	Specification for Structural Steel Buildings	
DESIGN LOADS			
Wind	V =	115	mph
Exposure	C		
Risk Cat.	II		
Grnd. Snow	Pg =	20	psf

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SIGN STRUCTURE PROFESSIONALS
2 HUMMINGBIRD CT. Project: 2132052
HOWELL, NJ 07731
(973) 570-8255

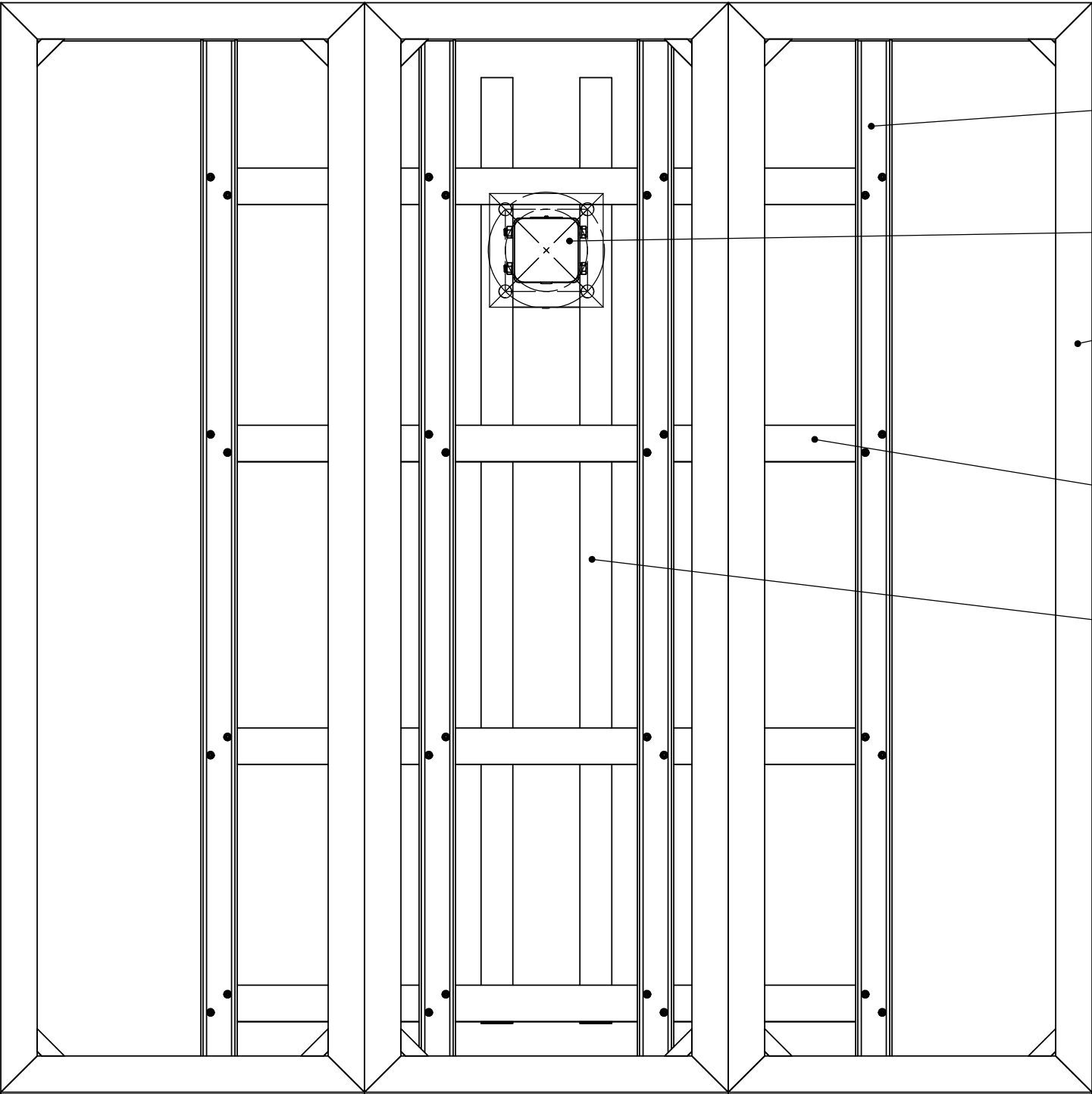
Jere Murdoch
Jere Murdoch, PE 6/30/2021
Professional Engineer Rev. 7/20/2021
MO PE Lic. #2014038163
Exp. 12/31/2022

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		<div>3</div> <div>02.03.21</div> <div>AR</div> <div>REVISE PER MARK-UPS</div>				
		<div>4</div> <div>02.12.21</div> <div>AR</div> <div>REVISE PER MARK-UPS</div>				
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DTC.1 DRIVE THRU CANOPY (QTY 2)

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DESIGN LOADS			
Wind	V =	115 mph	
Exposure	C		
Risk Cat.	II		
Grnd. Snow	Pg =	20 psf	



2" X 4" X 1/4" WALL
STRUCTURAL
ALUM. CHANNEL

7" X 7" X 1/2" WALL
STL. SUPPORT TUBE

4" X 4" ALUM.
SUPPORT TUBE
FRAME WELDMENT

4" X 5/8" STL. PLATES
W/ 3/8"-16 X 1-3/4"L
STL. BOLTS, WASHERS
AND NUTS

3-1/2" X 3-1/2" X 3/16" WALL
STL. SUPPORT TUBE

TOP VIEW
(STRUCTURE)

SCALE: 3/4" = 1'-0"



MURDOCH ENGINEERING
SIGN STRUCTURE PROFESSIONALS
2 HUMMINGBIRD CT.
HOWELL, NJ 07731
(973) 570-8255

Project: 2132052

Jere Murdoch, PE
Professional Engineer
MO PE Lic. #2014038163
Exp. 12/31/2022

6/30/2021
Rev. 7/20/2021

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JOB #: **250360-R11**
DATE: 12.14.2020
DESIGNER: S. Wiands
SALES REP:
PROJ MGR: S. KOSTKA

REV.	DATE	BY	DESCRIPTION
2	01.21.21	AR	REVISE PER COMMENTS
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LANDLORD APPROVAL	DATE
QC	

SHAKE SHACK

SHAKE SHACK
2051 NW LOWENSTEIN DR
LEE'S SUMMIT, MO 64081

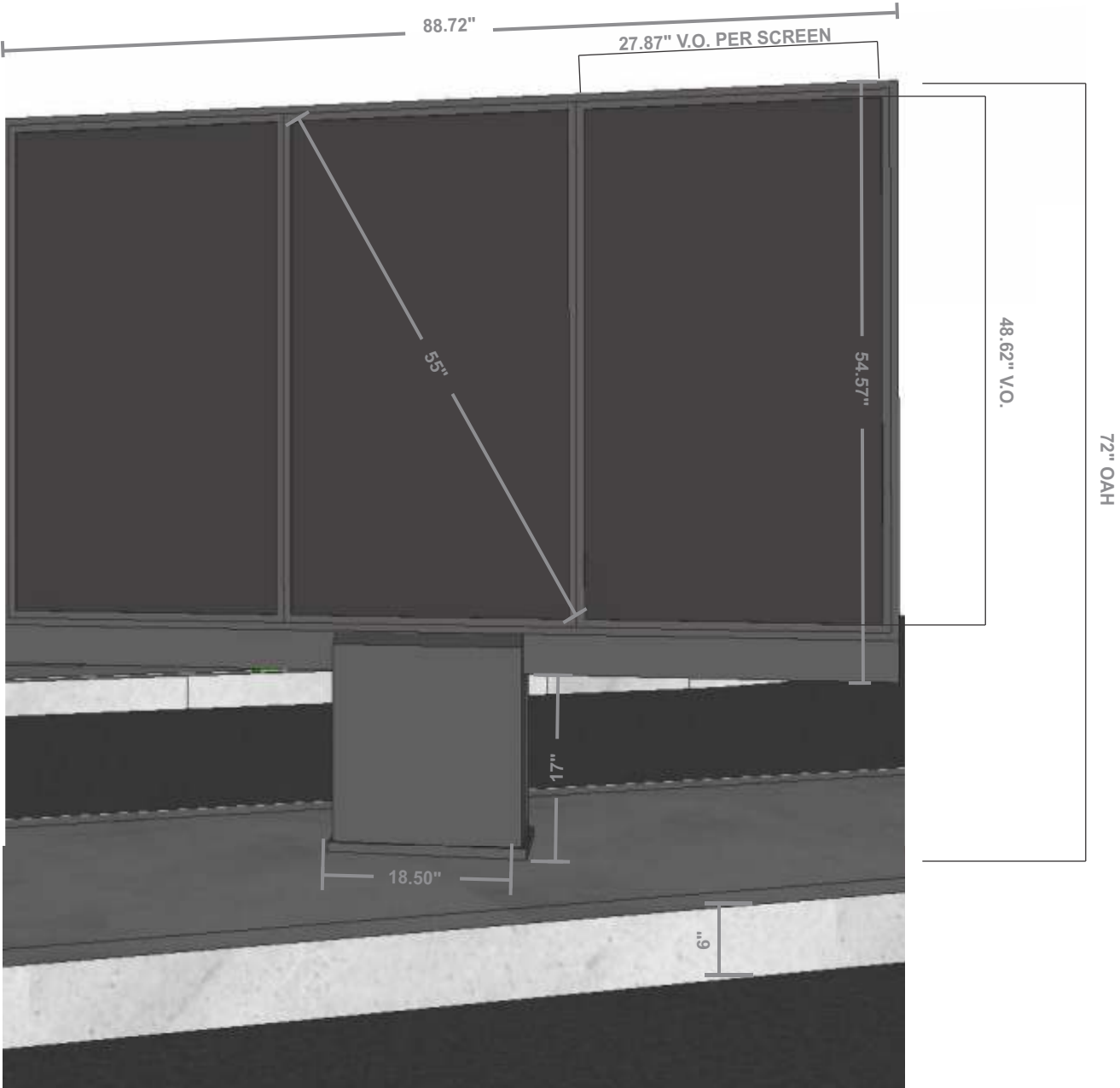
DESIGN PHASE: CONCEPTUAL

SHEET NUMBER

8.6

DMB.1 EXTERIOR MENU BOARD (QTY 2)

SQUARE FOOTAGE: 28.2



SPECIFICATIONS TBD

SAMSUNG QM55R DISPLAYS

COLORS/FINISHES - TBD

P-1 TBD

FRONT VIEW
SCALE: NTS

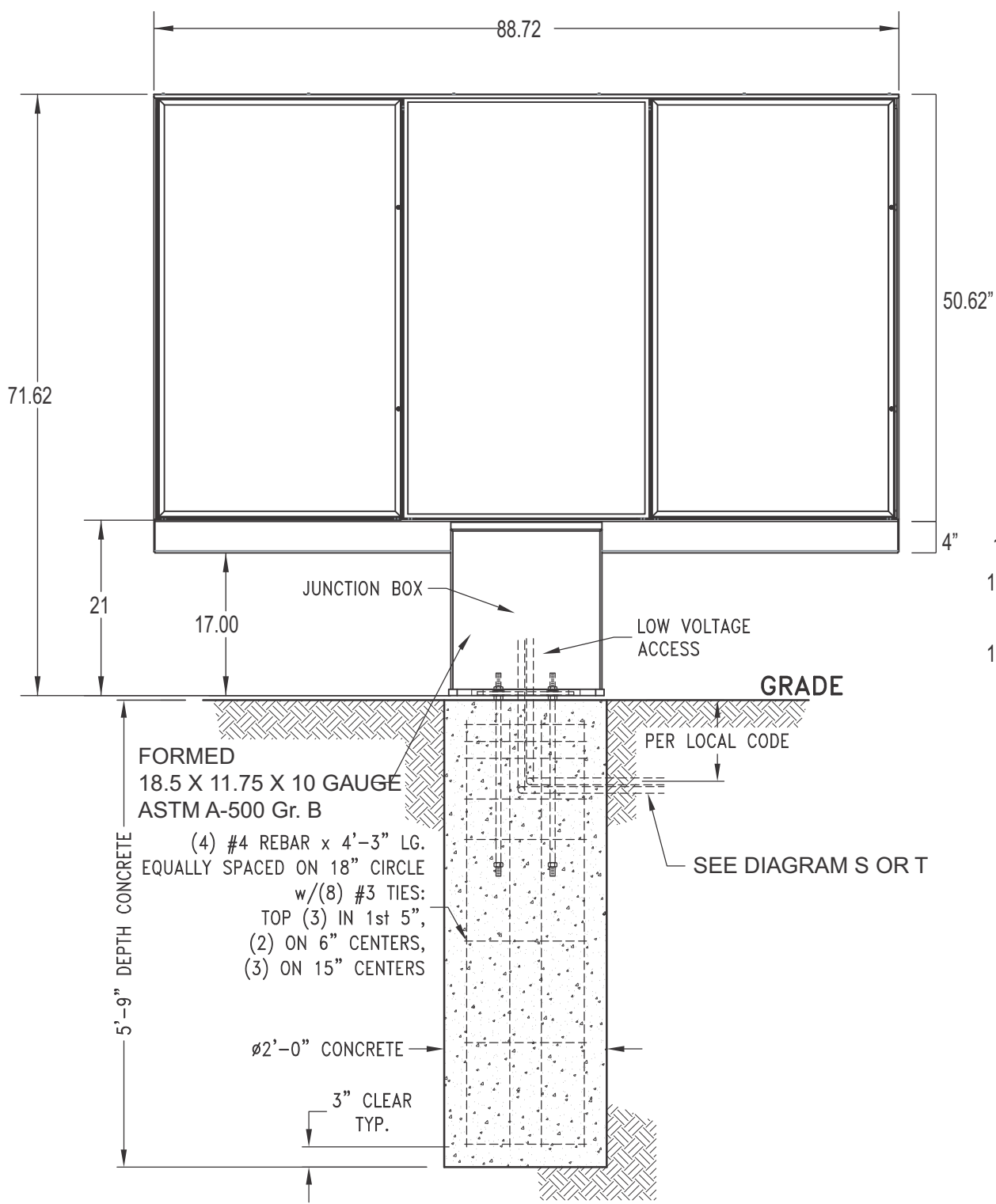


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		2	01.21.21	AR	REVISE PER COMMENTS	LANDLORD APPROVAL	DATE			
		3	02.03.21	AR	REVISE PER MARK-UPS					
		4	02.12.21	AR	REVISE PER MARK-UPS					
		5	04.16.21	SW	REVISE PER MARK-UPS					
6	04.23.21	SW	REVISE PER MARK-UPS	QC						
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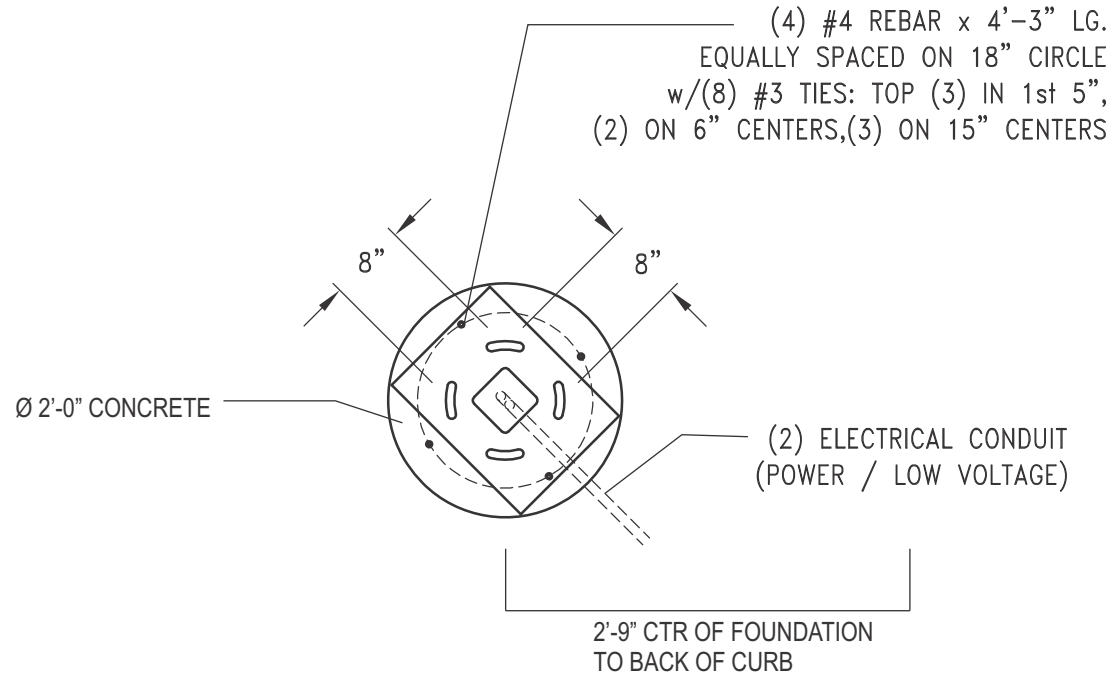
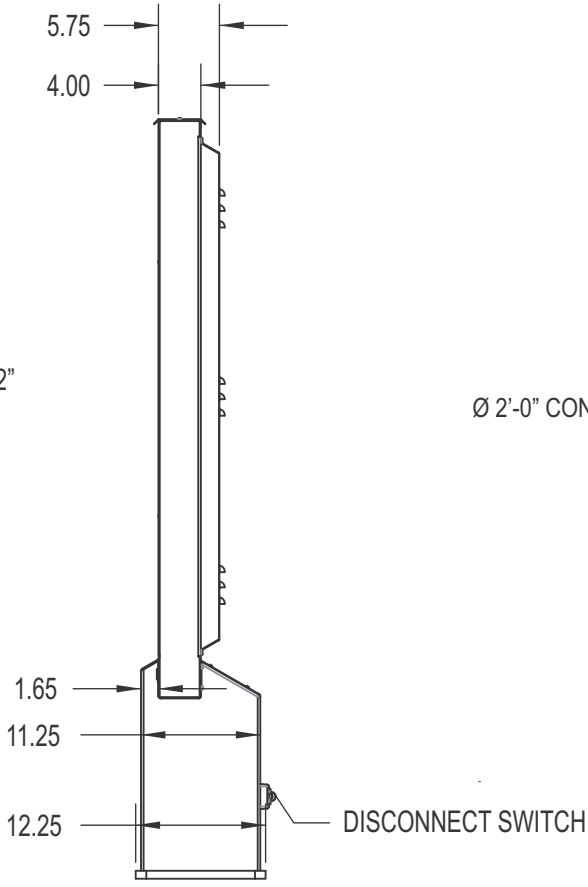
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DMB.1 EXTERIOR MENU BOARD (QTY 2)

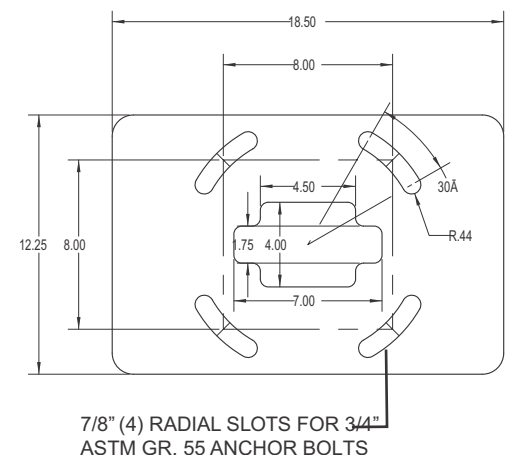


ELEVATION VIEW

Engineers Note:
Murdoch Engineering scope of work to baseplate, anchor bolt and footing.
Sign box pre-engineered to withstand applicable loading.



PLAN VIEW
QTY. CONCRETE: 0.7 CU. YDS.



BASE PLATE DETAIL
3/4" ASTM A-36 STEEL

DESIGN SPECIFICATIONS			
IBC	2018	with	MO amendments
ASCE	7-16	Minimum Design Loads for Buildings & Other Structures	
ACI	318-14	Building Code Requirements for Structural Concrete	
ANSI/AISC	360-16	Specification for Structural Steel Buildings	
DESIGN LOADS			
Wind	V =	115	mph
Exposure	C		
Risk Cat.	II		
Grnd. Snow	Pg =	20	psf

MURDOCH ENGINEERING
SIGN STRUCTURE PROFESSIONALS
2 HUMMINGBIRD CT.
HOWELL, NJ 07731
(973) 570-8255

Project: 2132052

6/30/2021

JERE MURDOCH

NUMBER PE-2014038163

Jere Murdoch, PE
Professional Engineer
MO PE Lic. #2014038163
Exp. 12/31/2022

Rev. 7/20/2021

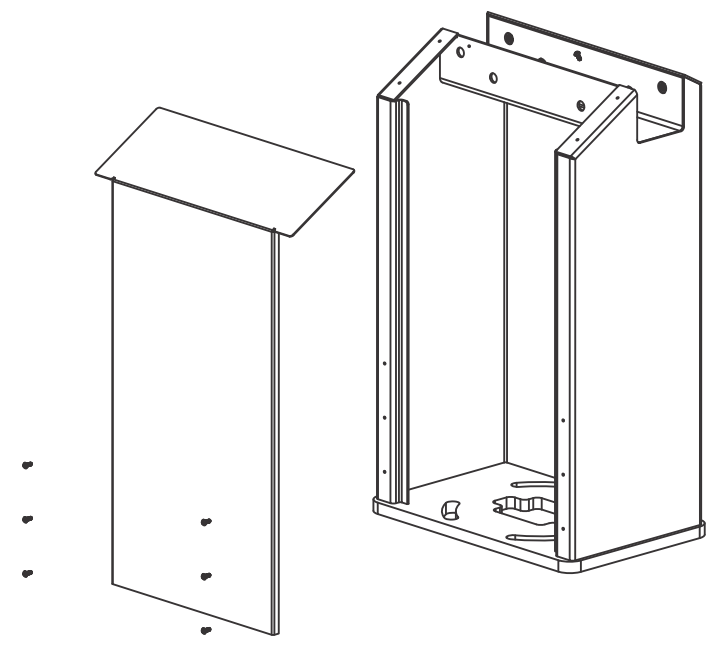
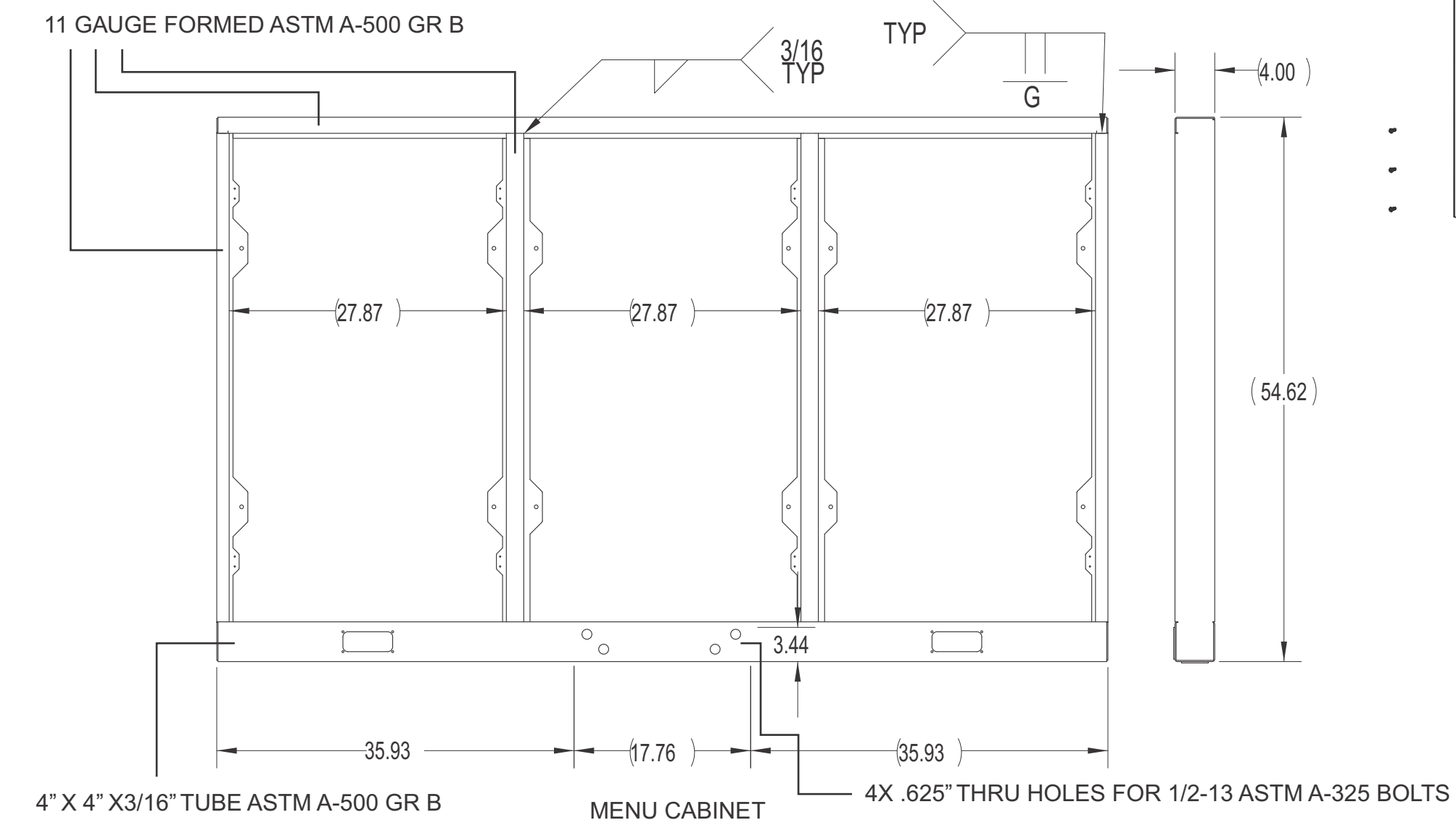
STATE OF MISSOURI

PROFESSIONAL ENGINEER

JONES SIGN Your Vision. Accomplished. WWW.JONESSIGN.COM	JOB #: 250360-R11 DATE: 12.14.2020 DESIGNER: S. Wiands SALES REP: PROJ MGR: S. KOSTKA	REV.	DATE	BY	DESCRIPTION	CLIENT APPROVAL	DATE	SHAKE SHACK	2051 NW LOWENSTEIN DR LEE'S SUMMIT, MO 64081	SHEET NUMBER 9.1
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						QC				

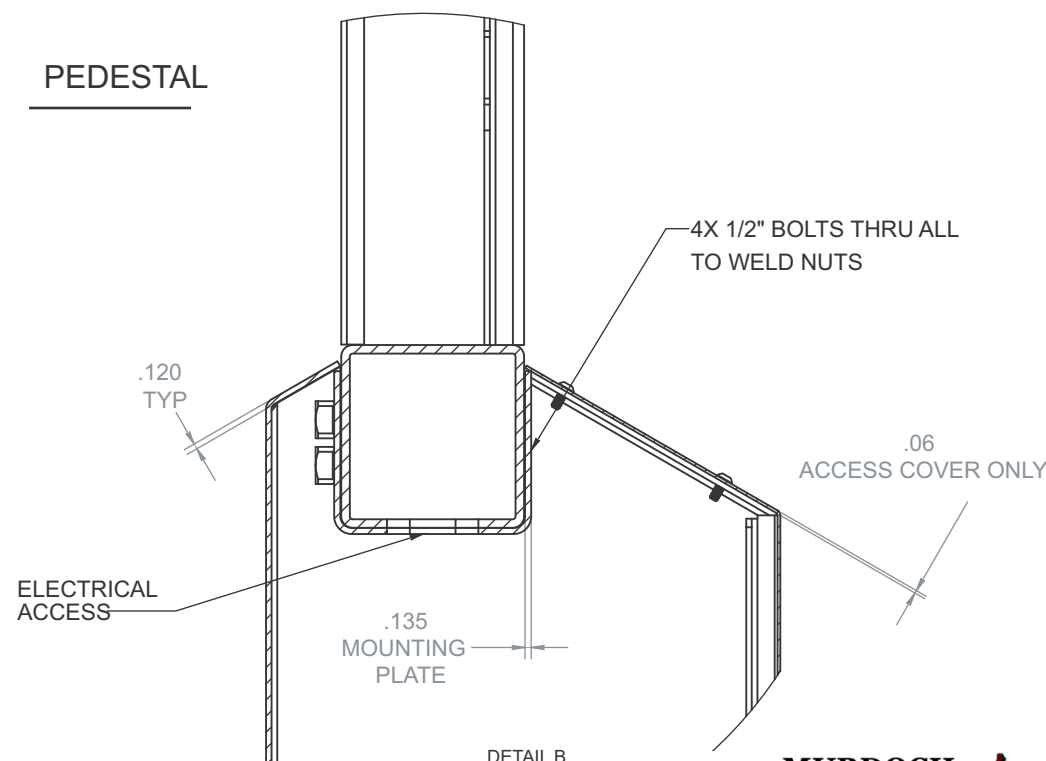
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DMB.1 EXTERIOR MENU BOARD (QTY 2)



PEDESTAL

DESIGN SPECIFICATIONS			
IBC	2018	with	MO amendments
ASCE	7-16	Minimum Design Loads for Buildings & Other Structures	
ACI	318-14	Building Code Requirements for Structural Concrete	
ANSI/AISC	360-16	Specification for Structural Steel Buildings	
DESIGN LOADS			
Wind	V =	115 mph	
Exposure	C		
Risk Cat.	II		
Grnd. Snow	Pg =	20 psf	



CUT AWAY VIEW PEDESTAL TO CABINET CONNECTION

MURDOCH ENGINEERING
SIGN STRUCTURE PROFESSIONALS
2 HUMMINGBIRD CT. Project: 2132052
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(973) 570-8215

JERE MURDOCH
Professional Engineer
MO PE Lic. #2014038163
Exp. 12/31/2022

6/30/2021
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GENERAL:

- ALL MATERIALS AND WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE INTERNATIONAL BUILDING CODE (IBC).
- CONSTRUCTION METHODS AND PROJECT SAFETY: DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE METHODS, PROCEDURES, OR SEQUENCE OF CONSTRUCTION. TAKE NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION. THE EOR WILL NOT ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES THAT ARE FOUND. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS.
- ALL OMISSIONS AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND FIELD INSPECTOR. THE ENGINEER SHALL PROVIDE A SOLUTION PRIOR TO PROCEEDING WITH ANY WORK AFFECTED BY THE CONFLICT OR OMISSION.
- WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, CONSTRUCT IN ACCORDANCE WITH THE STEEL CONSTRUCTION MANUAL, 14TH EDITION OR 2010 ALUMINUM DESIGN MANUAL .
- WHEN A DETAIL IS IDENTIFIED AS TYPICAL, THE CONTRACTOR IS TO APPLY THIS DETAIL IN ESTIMATING AND CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE.
- ANY CHANGE TO THE DESIGN AS SHOWN ON THE DRAWINGS REQUIRES PRIOR WRITTEN APPROVAL FROM DESIGN ENGINEER OF RECORD BEFORE CONSTRUCTION.
- WORK PERFORMED IN CONFLICT WITH THE STRUCTURAL DRAWINGS OR APPLICABLE BUILDING CODE REQUIREMENTS SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
- VERIFICATION: VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. NOTIFY THE EOR IMMEDIATELY OF ANY DISCREPANCIES.

EXISTING CONDITIONS:

- IF EXISTING CONDITIONS ARE NOT AS DETAILED IN THIS DESIGN, THE INSTALLER SHALL CEASE WORK AND NOTIFY MURDOCH ENGINEERING IMMEDIATELY.
- MURDOCH ENGINEERING WILL NOT BE PERFORMING ON-SITE INSPECTIONS OR VERIFICATIONS. IT IS THE RESPONSIBILITY OF THE INSTALLER, STRUCTURE OWNER, AND PROPERTY OWNER TO IDENTIFY EXISTING CONDITIONS AND CONTACT MURDOCH ENGINEERING WITH ANY DISCREPANCIES OR CONCERNS.
- INSTALLER SHALL CONFIRM THE DIAMETER AND THICKNESS OF EXISTING MEMBERS AND NOTIFY MURDOCH ENGINEERING OF ANY DISCREPANCIES.
- INSTALLER SHALL INSPECT AND CONFIRM THE QUALITY OF EXISTING STRUCTURE AS "IN GOOD REPAIR". IF THERE ARE ANY INDICATIONS THAT THIS IS NOT THE CASE, INSTALLER SHALL CEASE WORK IMMEDIATELY AND NOTIFY MURDOCH ENGINEERING.
- ANY EXISTING INFORMATION SHOWN HAS BEEN FURNISHED BY THE PERSON(S) OR COMPANY THIS DOCUMENT WAS PREPARED FOR (SEE TITLE BLOCK). MURDOCH ENGINEERING IN NO WAY CERTIFIES THIS INFORMATION AS "AS-BUILT". IF THERE IS ANY REASON TO BELIEVE THE EXISTING CONDITIONS DETAILED HEREIN ARE NOT ACCURATE, MURDOCH ENGINEERING SHALL BE NOTIFIED IMMEDIATELY.

STEEL

1. STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:

ROUND HSS	ASTM A500, GR B	Fy=42 KSI MIN.
SQUARE/RECT HSS	ASTM A500, GR B	Fy=46 KSI MIN.
THREADED ROD	ASTM A36	Fy=46 KSI MIN.
STEEL PLATE	ASTM A36 ASTM	Fy=36 KSI MIN.
STD. PIPE	A53, GR B	Fy=35 KSI MIN.

- BOLTS SHALL CONFORM TO ASTM A307 UNO..
- BOLTS AND THREADED ROD SHALL BE HOT-DIP GALVANIZED PER ASTM F2329 UNO.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 UNO.
- NUTS SHALL CONFORM TO ASTM A563.
- WASHERS SHALL CONFORM TO ASTM F844.
- STEEL HARDWARE SHALL BE HOT-DIP GALVANIZED PER ASTM A153 UNO
- WELDING:
 - WELD STRUCTURAL STEEL IN COMPLIANCE WITH ANSI/AWS D1.1 AND AISC SPECIFICATION, CHAPTER J. WELDERS SHALL BE CERTIFIED AS REQUIRED BY GOVERNING CODE AUTHORITY. WELDING SHALL BE DONE BY ELECTRIC ARC PROCESS USING LOW-HYDROGEN ELECTRODES WITH SPECIFIED TENSILE STRENGTH NOT LESS THAN 70 KSI UNLESS NOTED OTHERWISE.
 - ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY AN AWS OR ICC CERTIFIED WELDER WITH ACTIVE STATUS AT TIME OF WELDING
 - UNLESS A LARGER WELD SIZE IS INDICATED, PROVIDE MINIMUM SIZE WELDS PER AISC SPECIFICATION, SECTION J2, TABLE J2.4
 - BASE PLATES SHALL BE WELDED ON TOP AND BOTTOM WITH CONTINUOUS WELDS OF AT LEAST 1/4" (IF PLATE IS CUT TO FIT TUBE INTO PLATE)

ALUMINUM:

- FABRICATE AND ERECT ALUMINUM IN COMPLIANCE WITH THE ALUMINUM ASSOCIATION (AA) 2010 ALUMINUM DESIGN MANUAL (ADM) 1, THE SPECIFICATIONS FOR ALUMINUM SHEET METAL WORK (ASM35), AND IBC CHAPTER 20.
- PIPE AND TUBE SHALL BE 6061-T6 PER ASTM B241 OR B429 WITH Ft_u=38 KSI MIN, Ft_y=35 KSI MIN, Ft_uw=24 KSI MIN, Ft_yw=15 KSI MIN.
- STD STRUCTURAL PROFILES SHALL BE 6061-T6 PER B308 WITH Ft_u=38 KSI MIN, Ft_y=35 KSI MIN, Ft_uw=24 KSI MIN, Ft_yw=15 KSI MIN.
- SHEET AND PLATE SHALL BE 6061-T6 PER ASTM B209 WITH Ft_u=42 KSI MIN, Ft_y=35 KSI MIN, Ft_uw=24 KSI MIN, Ft_yw=15 KSI MIN.
- EXTRUSIONS SHALL BE 6061-T6 PER ASTM B241 OR B429 WITH Ft_u=38 KSI MIN, Ft_y=35 KSI MIN, Ft_uw=24 KSI MIN, Ft_yw=15 KSI MIN.
- ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY AN AWS OR ICC CERTIFIED WELDER WITH CURRENT STATUS AT TIME OF WELDING
- UNLESS A LARGER WELD SIZE IS INDICATED, PROVIDE MINIMUM SIZE WELD PER ADM. ALL ALUMINUM WELDED JOINTS SHALL HAVE WELD SIZES OF AT LEAST 1/4 INCH
- FILLET WELDS SHALL NOT EXCEED THINNEST MEMBER WALL THICKNESS JOINED.
- ALUMINUM WELD FILLER SHALL BE 5356 ALLOY
- WELDING PROCESS GMAW OR GTAW SHALL BE IN ACCORDANCE WITH AWS D1.2
- ALUMINUM CHANNEL LETTERS SHALL BE CONSTRUCTED OF 0.090" RETURNS AND 0.125" BACKS MINIMUM, UNLESS A LARGER SIZE IS INDICATED ON DRAWINGS. THIS NOTE SHALL SUPERCEDE DRAWING DETAILS.
- PROVIDE NEOPRENE GASKET BETWEEN DISSIMILAR METALS TO PREVENT GALVANIC CORROSION
- ALUMINUM DIRECTLY EMBEDDED INTO CONCRETE SHALL BE CAPPED AT BOTTOM AND COATED WITH BITUMINOUS COATING OR POLYURETHANE WHERE IN CONTACT WITH CONCRETE.
- FASTENERS BETWEEN DISSIMILAR METALS SHALL BE STAINLESS STEEL 316.

CONCRETE & REINFORCEMENT

- MINIMUM 28-DAY COMPRESSIVE STRENGTH (f_c') SHALL BE 3,000 PSI. THE MAXIMUM WATER TO CEMENT RATIO SHALL BE 0.45 BY WEIGHT. A MINIMUM OF 5-3/4 BAGS OF CEMENT SHALL BE USED PER CUBIC YARD WITH A SLUMP OF 4" +/- 1.
- REINFORCEMENT TO BE ASTM A615 GR 60, F_y=60 KSI UNO
- CALCIUM CHLORIDE OR ADDED CHLORIDE IS NOT PERMITTED
- VIBRATION: ALL REINFORCED CONCRETE SHALL BE CONSOLIDATED WITH MECHANICAL VIBRATORS
- CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318-11
- PROVIDE A MINIMUM OF 2-1/2" COVER OF ALL EMBEDDED STEEL REBAR AND A MINIMUM OF 6 INCHES OF COVER FOR DIRECT BURIED PIPE OR TUBE MEMBERS.

FOUNDATIONS

- CONCRETE POURED INTO CONSTRAINED EARTH EXCAVATIONS MUST CURE UNDER PROPER CONDITIONS FOR A MINIMUM OF 7 DAYS PRIOR TO SIGN BOX INSTALLATION. (EXCEPTION: IF THE OVERALL HEIGHT OF THE SIGN IS LESS THAN 20 FEET AND THE SIGN IS ADEQUATELY BRACED AGAINST WIND LOADS FOR A MINIMUM OF 4 DAYS, THE BOX MAY BE INSTALLED THE SAME DAY AS THE FOOTING IS POURED)
- FOOTINGS MUST BE POURED AGAINST UNDISTURBED EARTH. SOIL BACKFILL IS UNACCEPTABLE. WHEN A SONOTUBE IS USED AS THE FORM, 3/4" BLUESTONE OR CONCRETE SHALL BE USED TO BACKFILL THE SPACE BETWEEN THE SONOTUBE AND UNDISTURBED EARTH.
- COLD WEATHER PLACEMENT: PROTECT CONCRETE WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST, FREEZING ACTIONS OR LOW TEMPERATURES. DO NOT POUR CONCRETE DURING OR WHEN FREEZING TEMPERATURES ARE ANTICIPATED WITHIN 3 DAYS OF POUR.
- REINFORCEMENT IS NOT REQUIRED FOR DIRECT BURIAL TYPE SIGN FOOTINGS FOR SIGNS OF 25 FEET OVERALL HEIGHT OR LESS, DIRECT BURIED STEEL SHALL EXTEND TO 6 INCHES FROM BOTTOM OF FOOTING.
- FOR ANCHOR BOLT/ BASE PLATE - SQUARE FOOTINGS, PROVIDE A MINIMUM OF #5 VERTICAL REBAR @ 12" O.C., 4" OFFSET FROM PERIMETER, TOP AND BOTTOM OF FOOTING. PROVIDE #3 HORIZONTAL TIES @ 12" O.C. Unless otherwise noted.
- FOR ANCHOR BOLT/ BASE PLATE - ROUND FOOTINGS, PROVIDE A MINIMUM OF SIX (6) VERTICAL #5 REBARS, EVENLY SPACED, 4" OFFSET FROM FOOTING PERIMETER & #3 HORIZONTAL TIES, 12" O.C. Unless otherwise noted.
- ANCHOR BOLTS SHALL BE TIED TO REBAR CAGE AT A MINIMUM OF TWO LOCATIONS PER ANCHOR BOLT
- FOOTING DESIGN ASSUMES FOOTING SHALL BE EXCAVATED AND POURED IN UNDISTURBED NATURAL EARTH, CAPABLE OF WITHSTANDING A MINIMUM 1,500 PSF VERTICAL DESIGN BEARING PRESSURE AND 150 PSF/FT OF DEPTH OF LATERAL BEARING PRESSURE BASED ON SOIL DATA OBTAINED FROM THE USGS SOIL SURVEY.
- IF CLAY, SILTY - CLAY, ORGANIC OR FILL SOIL IS ENCOUNTERED UPON EXCAVATION, CONTACT MURDOCH ENGINEERING FOR FOOTING DESIGN MODIFICATION PRIOR TO CONSTRUCTION.

SCOPE OF WORK:

- LIMITS OF LIABILITY TO EXTEND ONLY TO THE QUANTITY INDICATED. ATTEMPTS IN PART OR IN WHOLE TO INSTALL GREATER QUANTITIES THAN THOSE SPECIFIED WITHOUT CONSULTING MURDOCH ENGINEERING SHALL VOID ALL PROFESSIONAL LIABILITY AND COVERAGE.

DESIGN SPECIFICATIONS			
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ACI	318-14	Building Code Requirements for Structural Concrete	
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DESIGN LOADS			
Wind	V =	115 mph	
Exposure	C		
Risk Cat.	II		
Grnd. Snow	Pg =	20 psf	



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PREPARED FOR:

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PROJECT TITLE:

SHAKE SHACK

PROJECT ADDRESS:

2051 NW LOWENSTEIN DR
LEE'S SUMMIT, MO 64081



2 HUMMINGBIRD CT. Project: 2132052
HOWELL, NJ 07731
(973) 570-8215
Jere Murdoch
Jere Murdoch, PE Rev. 7/20/2021
Professional Engineer
MO PE Lic. #2014038163
Exp. 12/31/2022

DWG TITLE:

GENERAL NOTES

SHEET:

S.1

SIZE:

B

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