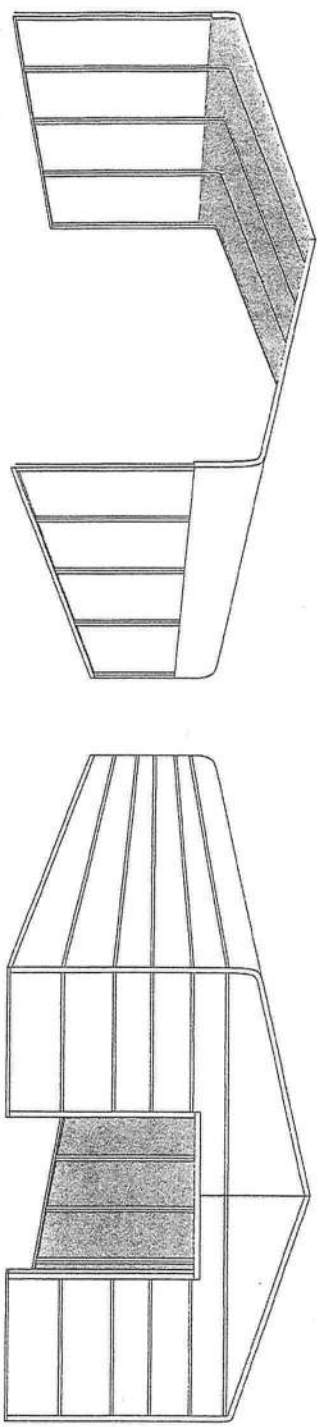


33

REGULAR / A-FRAME - VERTICAL / HORIZ. 12' thru 30' CARPORTS (STATE OF FLORIDA) AS PER DESIGN CRITERIA



DESIGN NOTES	DESIGN CRITERIA	DRAWING INDEX
- ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH FBC 2010, OSHA, AISC, ASCE-10, AWS D 1.1 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS. - BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON SHEET 9 - ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL. - ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS. - ALL FIELD CONNECTIONS SHALL BE TEKS #12 (1/4"x1"). - STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (TV=60KSI) OR EQ. - ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 STEEL. - STRUCTURAL TUBE T52 1/2"x2 1/2" - 14GA. IS EQUIVALENT TO T52 1/4"x2 1/4" - 12GA AND EITHER ONE CAN BE USED IN LIEU OF THE OTHER	PREVAILING CODE: FBC 2010 / IBC 2012 2009 AMENDMENTS USE GROUP: U (CARPORTS, BARN) BASIC WIND VELOCITY: 90 TO 160 MPH (SEE SCHEDULE) EXPOSURE CATEGORY: C ROOF DEAD LOAD: 2.0 PSF AS PER GROUND SNOW ROOF LIVE LOAD: MAX. 20 PSF GROUND SNOW LOAD: 0 TO 30 PSF (SEE SCHEDULE) IMPORTANCE FACTOR = SNOW 0.8 WIND 0.87 SEISMIC 1.0 SEISMIC DESIGN CATEGORY: A LOAD COMBINATIONS: DL+LL, 0.6DL+WL DL+0.75LL+0.75WL	- COVER SHEET - FLOOR PLAN - REGULAR / AFRAME BLDG. SECTIONS - SCHEDULES - SIDE ELEVATIONS - SECTION DETAILS - END WALL DETAILS - OPENING DETAILS - LEAN-TO OPTION - ANCHORAGE THE INFORMATION CONTAINED IN THESE DRAWINGS ARE THE SOLE PROPERTY OF A & A ENGINEERING. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF A & A ENGINEERING IS PROHIBITED.

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TNT METAL BUILDING, INC.

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FLORIDA

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TNT-FL

DATE:
3/27/2012

PROJECT NUMBER:
039-12-0261

DRAWN BY:
JMS

CHECKED BY:
OA

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A & A ENGINEERING
CIVIL • STRUCTURAL
SINCE 1968

5911 Renaissance Pl., Suite B
Toledo, Ohio 43623

Tel: (419) 292-1983
Fax: (419) 292-0955



Metal Buildings Inc.

170 Holly Springs Rd.
Mt. Airy, NC 27033

1-800-597-3357
MAIN - 1-336-789-3818
FAX - 1-336-789-4122

OWNER:

TNT METAL BUILDING, INC.

LOCATION: FLORIDA

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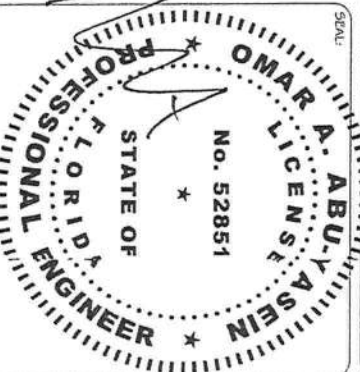
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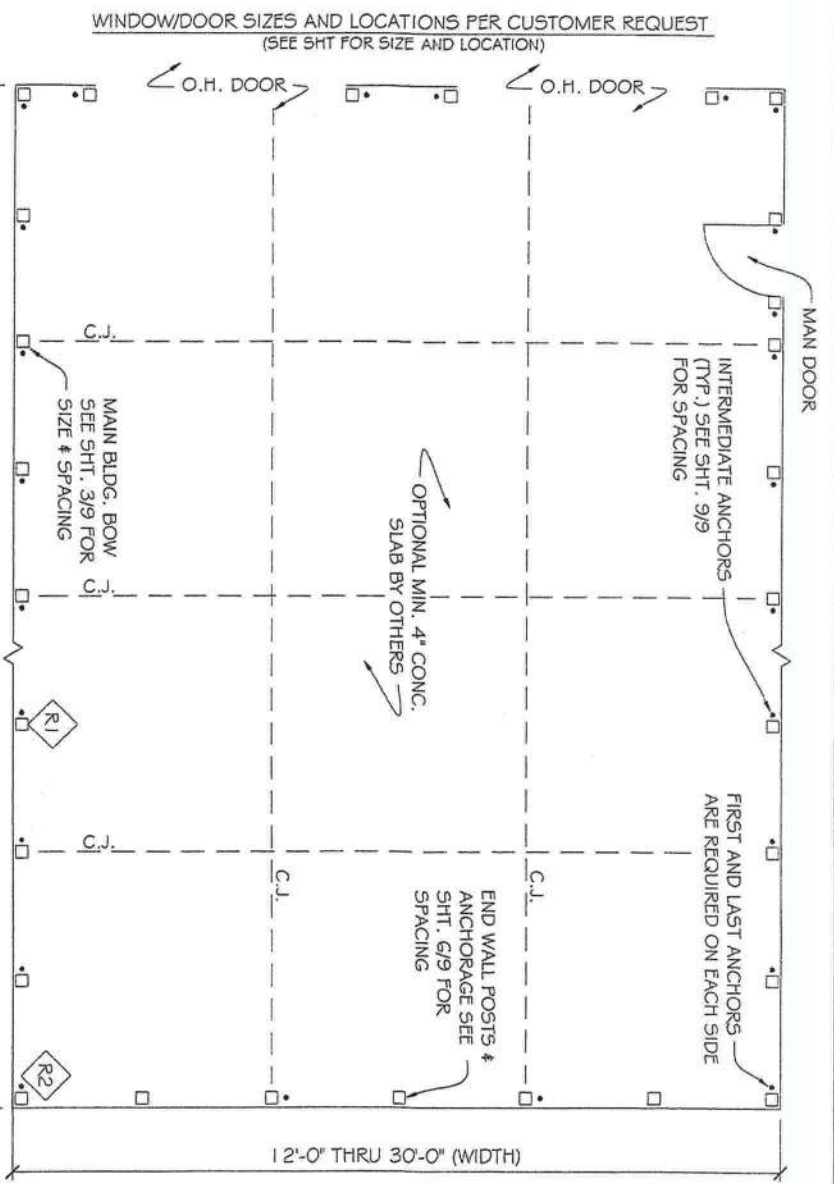
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FLOOR PLAN

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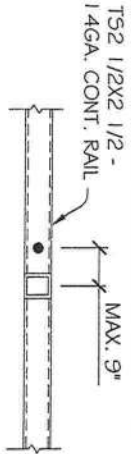


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FLOOR PLAN

(SCALE: NT5)



BASE ANCHOR

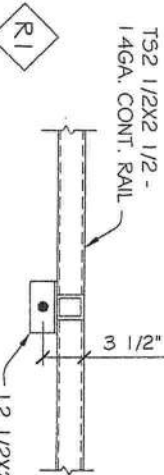
(SCALE: NT5)

C.J. - CONTROL JOINTS ON CONCRETE
SLAB OPTION MAX. 20'x20'

ALL STEEL SHALL BE GALVANIZED OR RUST
PROOF PAINTED

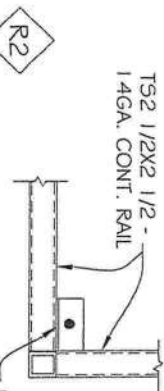
BASE ANCHOR

(SCALE: NT5)



ALTERNATE ANCHOR

(SCALE: NT5)



ALTERNATE ANCHOR

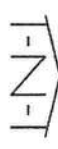
(SCALE: NT5)

• ANCHOR -
SEE OPTIONS &
SPACING SHT. 9/9

• ANCHOR -
SEE OPTIONS &
SPACING SHT. 9/9



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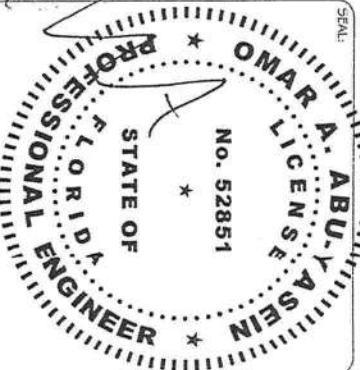
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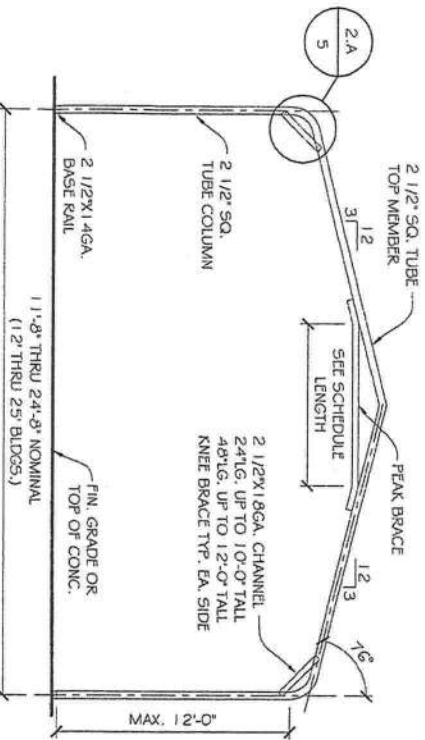
TYP. BLDG. SECTION

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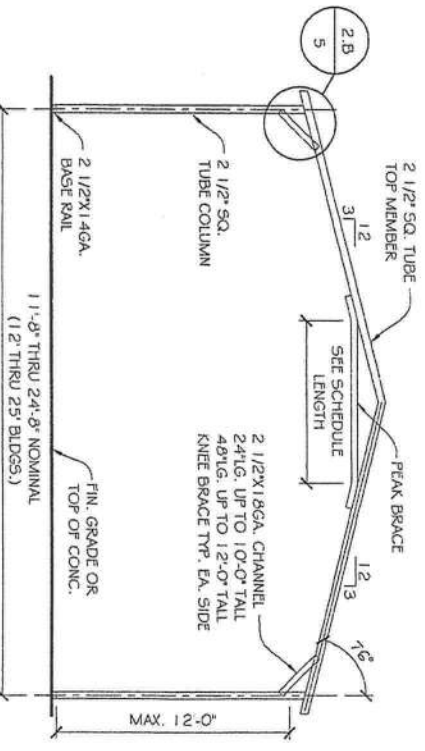
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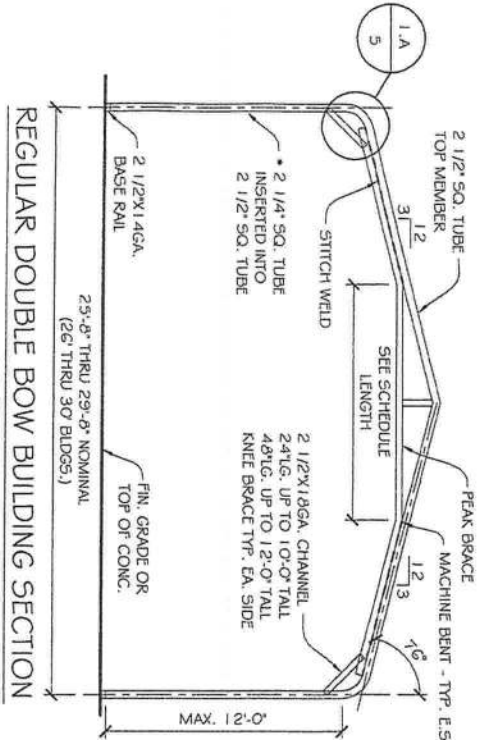
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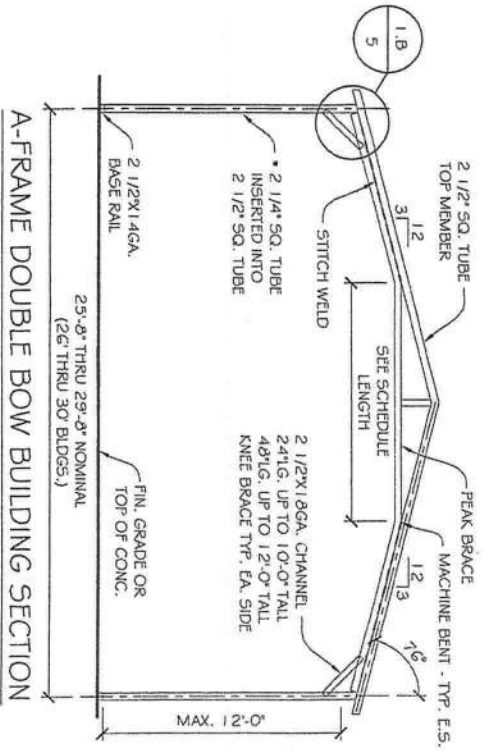
REGULAR SINGLE BOW BUILDING SECTION
 (SCALE: NTS)



A-FRAME SINGLE BOW BUILDING SECTION
 (SCALE: NTS)



REGULAR DOUBLE BOW BUILDING SECTION
 (SCALE: NTS)



A-FRAME DOUBLE BOW BUILDING SECTION
 (SCALE: NTS)

* INSERT TO BE FULL HEIGHT. FIELD BOLT W/TKS
 #12X1" @ 12" C/C - STAGGER OPPOSITE FACE

ALL STRUCTURAL TUBING SHALL BE 1/4" OR HIGHER

BOW SCHEDULE (TOP & COLUMN MEMBERS SPACING)

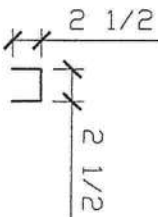
WIND		80 TO 100 (MPH)				101 TO 120 (MPH)				121 TO 150 (MPH)			
GS/LL	POST HT.	BUILDING WIDTH				BUILDING WIDTH				BUILDING WIDTH			
		12-16 (SINGLE BOW)	17-22 (SINGLE BOW)	23-26 (SINGLE BOW)	26-30 (DOUBLE BOW)	12-16 (SINGLE BOW)	17-22 (SINGLE BOW)	23-26 (SINGLE BOW)	26-30 (DOUBLE BOW)	12-16 (SINGLE BOW)	17-22 (SINGLE BOW)	23-26 (SINGLE BOW)	26-30 (DOUBLE BOW)
20/20	5'-0" TO 8'-0"	F 60"	60"	60"	60"	60"	54"	54"	54"	48" (54")	48" (54")	48" (54")	48"
	9'-0" TO 12'-0"	F 60"	54"	54"	54" (60")	42"	42"	48"	48" (54")	40"	40"	40" (48")	40"
30/20	5'-0" TO 8'-0"	F 60"	60"	54"	60"	60"	54"	54"	54"	48" (54")	48" (54")	48" (54")	48"
	9'-0" TO 12'-0"	F 54" (60")	54"	48"	54" (60")	42"	42"	48"	48" (54")	40"	40"	40" (48")	40"
WIND		151 TO 160 (MPH)											
GS/LL	POST HT.	BUILDING WIDTH				HIGHER VALUES WITHIN PARENTHESES CAN BE USED FOR VERTICAL SHEATHING ONLY							
		12-16 (SINGLE BOW)	17-22 (SINGLE BOW)	23-26 (SINGLE BOW)	26-30 (DOUBLE BOW)								
20/20	5'-0" TO 8'-0"	F 42" (48")	42" (48")	42" (48")	42"								
	9'-0" TO 12'-0"	F 40"	40"	40" (42")	40"								
30/20	5'-0" TO 8'-0"	F 42" (48")	42" (48")	42" (48")	42"								
	9'-0" TO 12'-0"	F 40"	40"	40" (42")	40"								

F = FULLY ENCLOSED (CLOSED)
P = PARTIALLY ENCLOSED (OPEN)
G.S. = GROUND SNOW
L.L. = LIVE LOAD

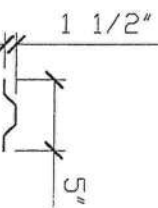
PEAK BRACE SCHEDULE

WIDTH	SIZE		LENGTH
	80-120 MPH	121-160 MPH	
12	2 1/2"X18GA. CHANNEL	2 1/2"X14GA. CHANNEL	2'-0"
14	2 1/2"X18GA. CHANNEL	2 1/2"X14GA. CHANNEL	4'-0"
16	2 1/2"X18GA. CHANNEL	2 1/2"X14GA. CHANNEL	6'-0"
18	2 1/2"X18GA. CHANNEL	2 1/2"X14GA. CHANNEL	6'-0"
20-22	2 1/2"X14GA. SQ. TUBE	2 1/2"X14GA. SQ. TUBE	10'-0"
24-26	2 1/2"X14GA. SQ. TUBE	2 1/2"X14GA. SQ. TUBE	14'-0"
28-30	2 1/2"X14GA. SQ. TUBE	2 1/2"X14GA. SQ. TUBE	16'-0"

CHANNEL PROFILE



HAT CHANNEL PROFILE



5911 Renaissance Pl., Suite B
Tolledo, Ohio 43623
Tel: (419) 292-1983
Fax: (419) 292-0955



Metal Buildings Inc.
170 Holly Springs Rd.
Mr. Aiy, NC 27030

1-800-397-3597
MAIN - 1-336-789-3818
FAX - 1-336-789-4122

OWNER:
TNT METAL BUILDING, INC.

LOCATION: FLORIDA

DRAWING NO.: TNT-FL

DATE: 3/27/2012

PROJECT NUMBER: 039-12-0261

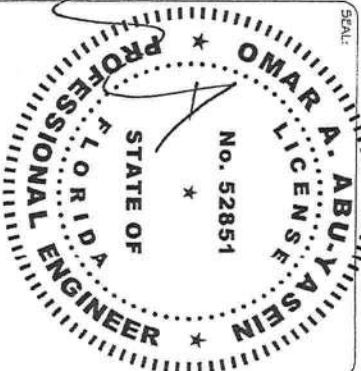
DRAWN BY: JMS

CHECKED BY: OA

DRAWING TITLE:

SCHEDULES

SHEET NO.: 3A OF 9



DATE SIGNED: 3/27/2012

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170 Holly Springs Rd.
Mt. Airy, NC 27030

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DRAWN BY: JMS

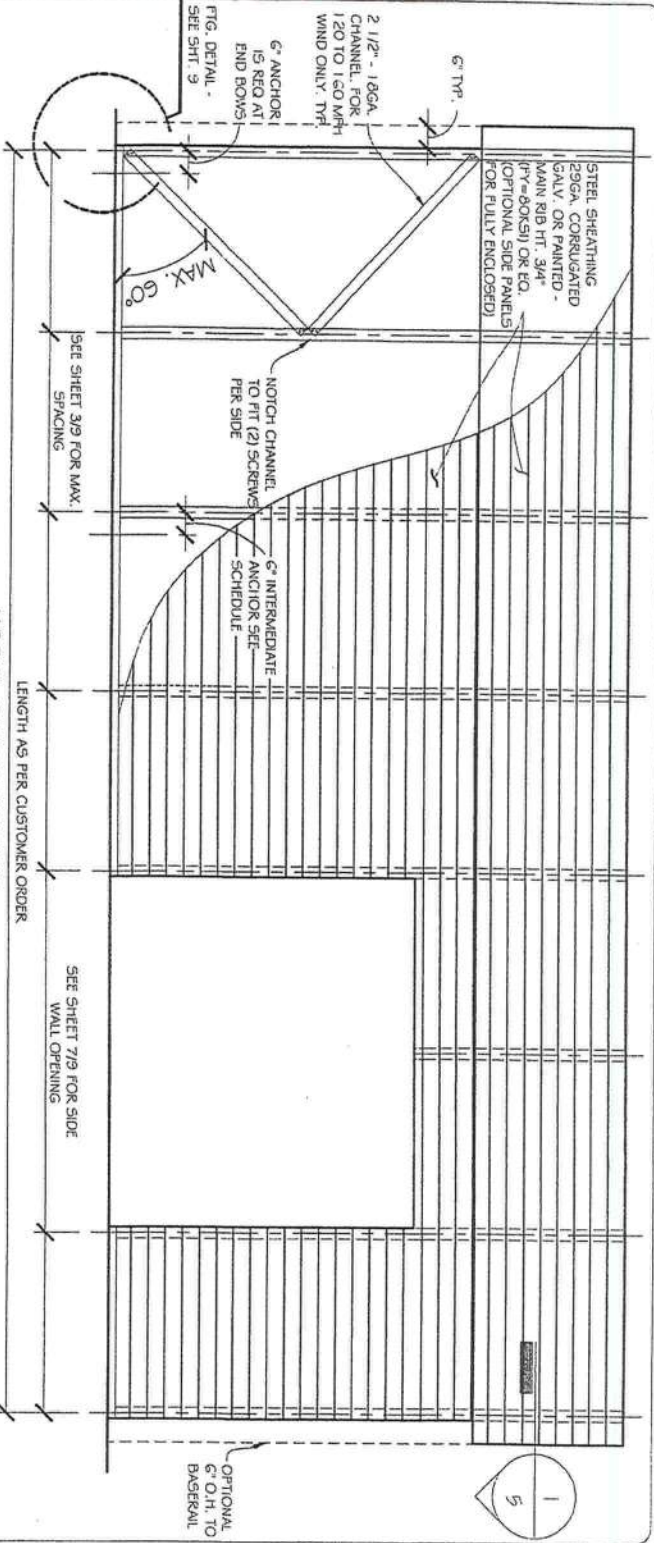
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DRAWING TITLE: SIDE ELEVATIONS

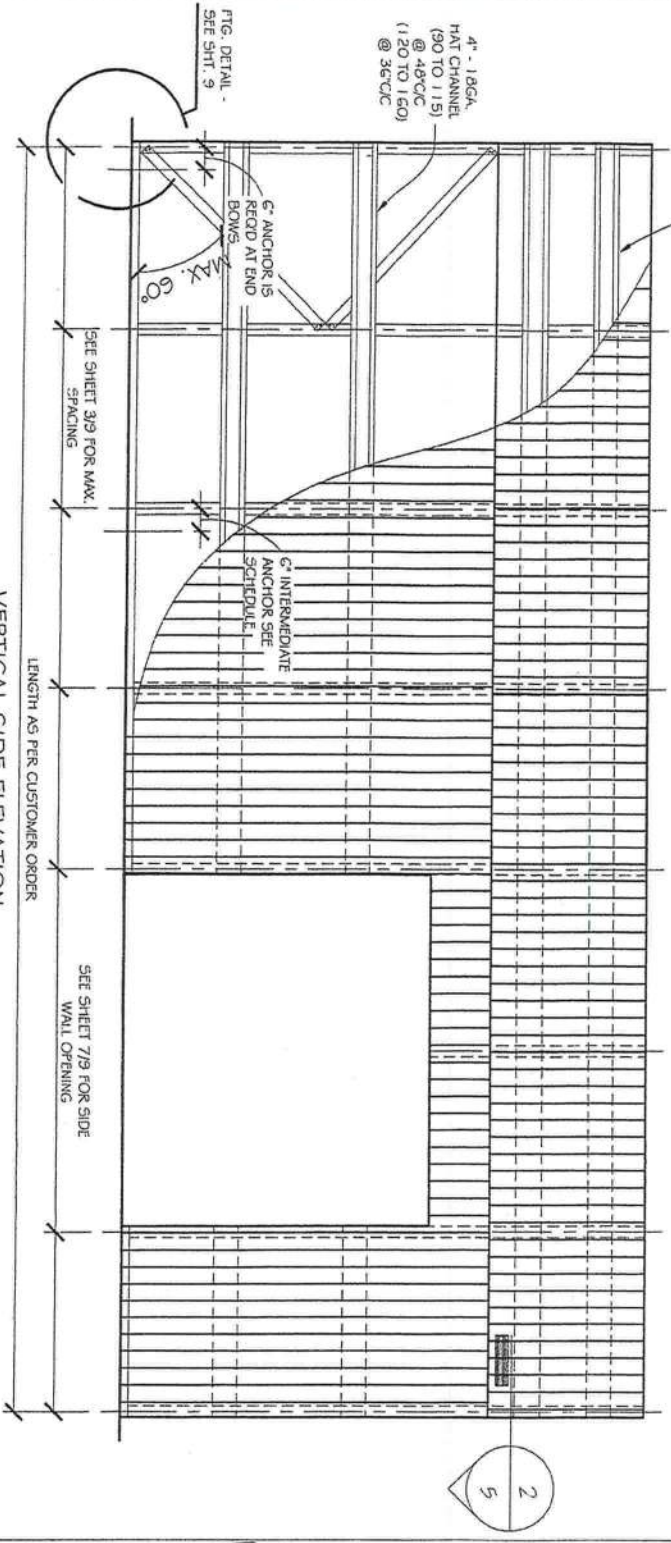
SHEET NO.: 4 OF 9

OMAR A. ABU-YASEIN
No. 52851
STATE OF FLORIDA
PROFESSIONAL ENGINEER

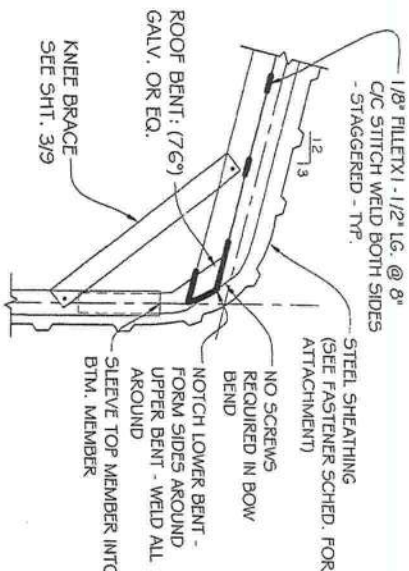
DATE SIGNED: 3/27/2012



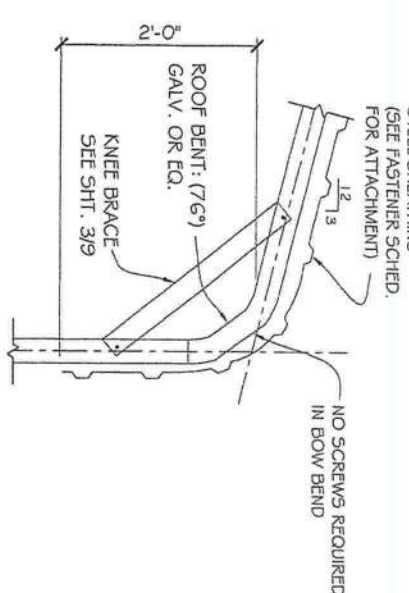
HORIZ. SIDE ELEVATION
(SCALE: NT5)



VERTICAL SIDE ELEVATION
(SCALE: NT5)

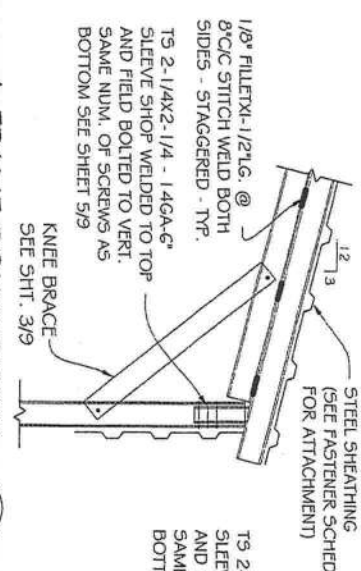


REGULAR DOUBLE BOW
SECTION DETAIL
(SCALE: NTS)
1.A
3

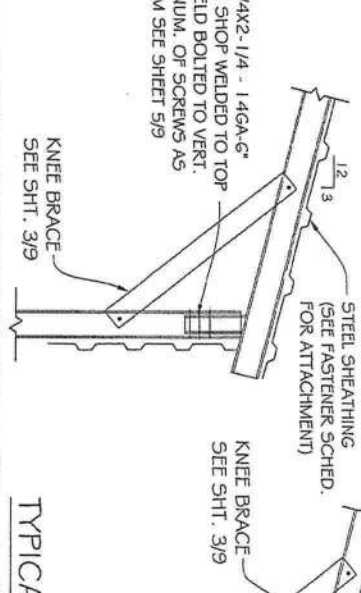


REGULAR SINGLE BOW
SECTION DETAIL
(SCALE: NTS)
2.A
3

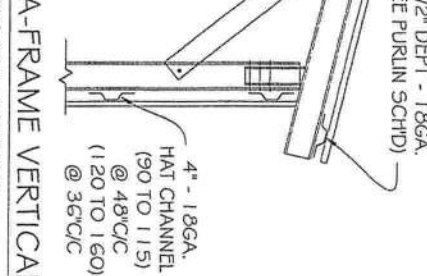
PURLIN SCHD.		
GROUND SNOW LOAD PSF	HAT CHANNEL SPACING	
20	48" CC	
30	42" CC	
36" CC FOR OVER		MAX. 115 MFT



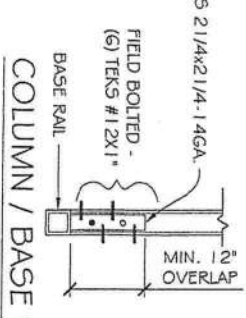
A-FRAME DOUBLE BOW
SECTION DETAIL
(SCALE: NTS)
1.B
3



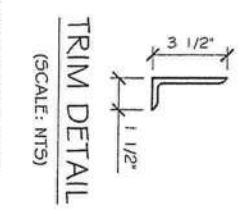
A-FRAME SINGLE BOW
SECTION DETAIL
(SCALE: NTS)
2.B
3



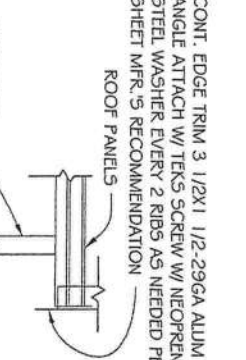
TYPICAL A-FRAME VERTICAL
SECTION DETAIL
(SCALE: NTS)
3



COLUMN / BASE RAIL
DETAIL
(SCALE: NTS)
4



TRIM DETAIL
(SCALE: NTS)
5



EDGE DETAIL
(SCALE: NTS)
6



EDGE DETAIL
(SCALE: NTS)
7

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Fax: (419) 292-0955

TNT

Metal Buildings Inc.
170 Holly Springs Rd.
Mr. Atry, NC 27030

1-800-597-3597
MAIN - 1-336-789-3818
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OWNER:
TNT METAL BUILDING, INC.

LOCATION:
FLORIDA

DRAWING NO.:
TNT-FL

DATE:
3/27/2012

PROJECT NUMBER:
039-12-0261

DRAWN BY:
JMS

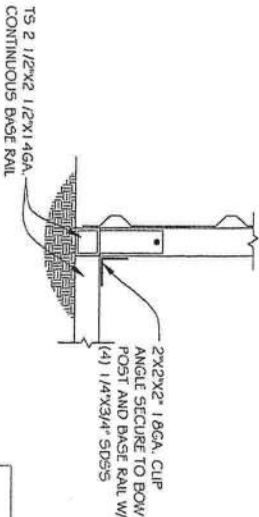
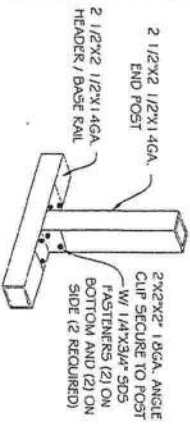
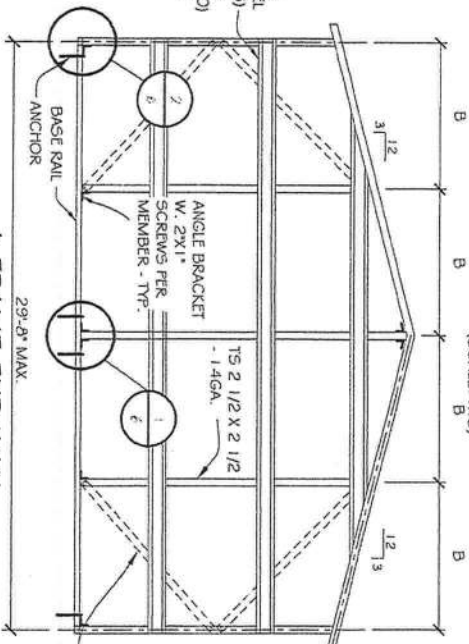
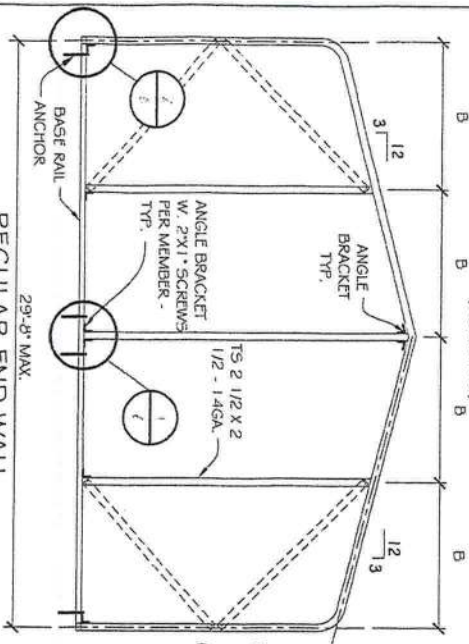
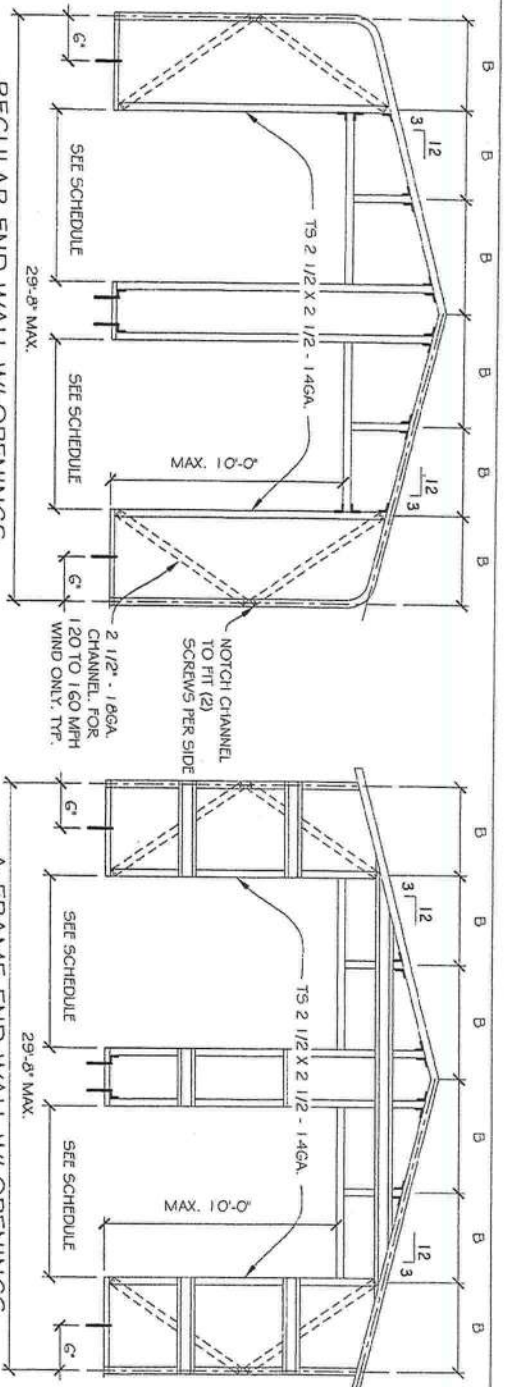
CHECKED BY:
OA

DRAWING TITLE:
SECTION DETAILS

SHEET NO.:
5 OF 9

OMAR A. ABU-YASEIN
No. 52851
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE SIGNED: 3/27/2012



CARPOT WIDTH	MAX. DOOR WIDTH	HEADER SIZE
12'-6"	8'	TS 2 1/4X 2 1/4 - 14GA.
18'	10'	TS 2 1/4X 2 1/4 - 14GA.
20'-22"	12'	TS 2 1/4X 2 1/4 - 14GA.
24'-30"	14'	DBL TS 2 1/4X 2 1/4 - 14GA.

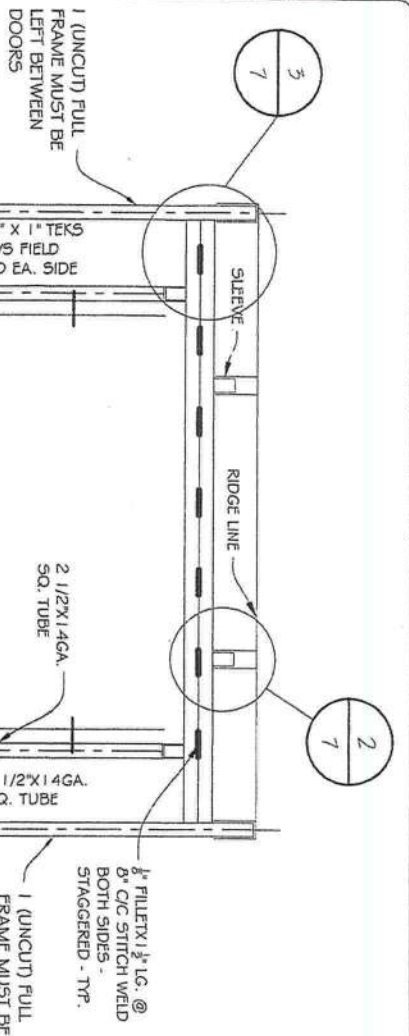
MAX. POST SPACING "B" (END WALL SCHEDULE)		
WIND	POST SPACING "B"	ANCHORS
90 - 120	5-0" C/C	EVERY OTHER BAY "B"
121 - 150	4-0" C/C	EVERY BAY "B"
151 - 160	3-6" C/C	EVERY BAY "B"

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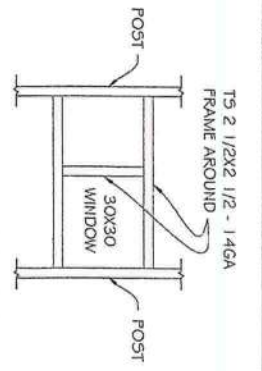
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Toledo, Ohio 43623

Tel: (419) 292-1983
Fax: (419) 292-0955



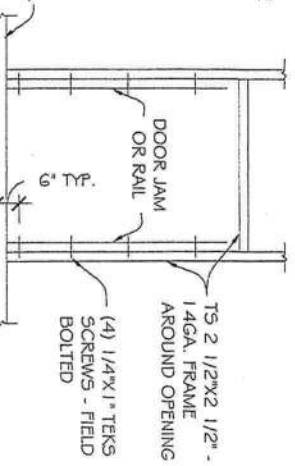
TYPICAL FRAMING AT SIDE OPENINGS

(SCALE: NTS)



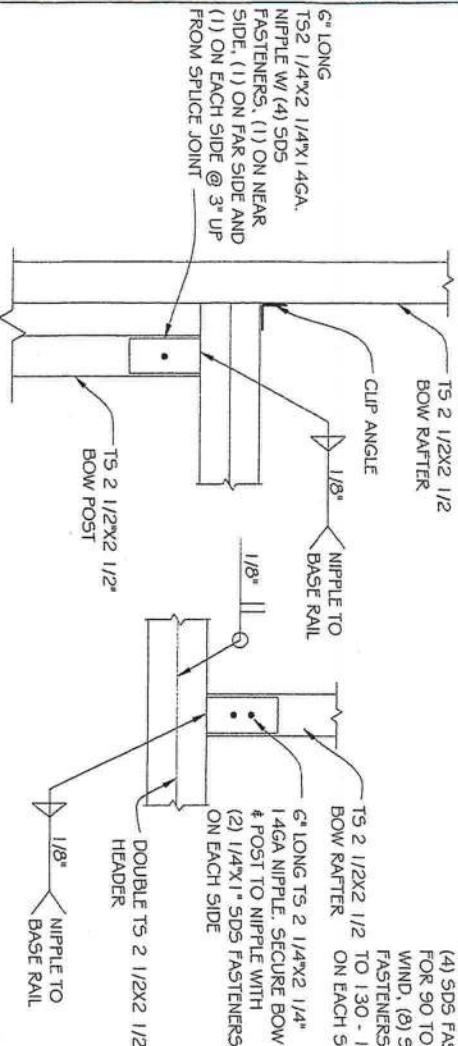
TYPICAL 30X30 WINDOW FRAMING

(SCALE: NTS)



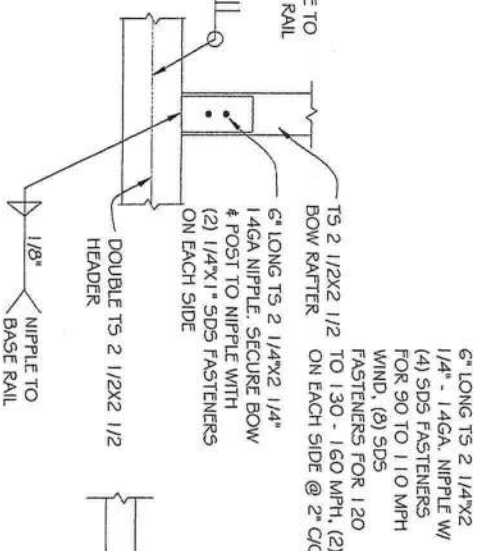
TYPICAL MAN DOOR FRAMING

(SCALE: NTS)



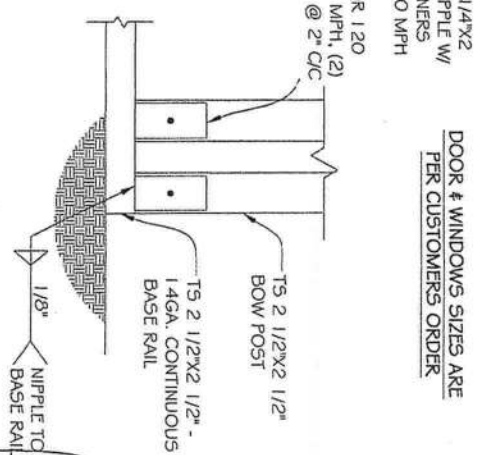
BOW/POST DETAIL

(SCALE: NTS)



BOW/BASE RAIL CONN. DETAIL

(SCALE: NTS)



BOW/HEADER DETAIL

(SCALE: NTS)

DOOR & WINDOWS SIZES ARE PER CUSTOMERS ORDER

6\"/>

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Fax: (419) 292-0955

T-N-T
Metal Buildings Inc.
170 Holy Springs Rd.
Mr. Aity, NC 27030

1-800-597-3597
MAIN - 1-336-789-3818
FAX - 1-336-789-4122

OWNER: **TNT METAL BUILDING, INC.**

LOCATION: **FLORIDA**

DRAWING NO.: **TNT-FL**

DATE: **3/27/2012**

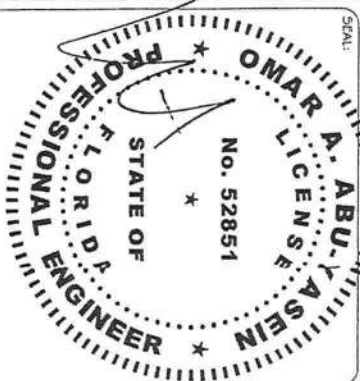
PROJECT NUMBER: **039-12-0261**

DRAWN BY: **JMS**

CHECKED BY: **OA**

DRAWING TITLE: **SIDE WALL OPENING DETAILS**

SHEET NO.: **7 OF 9**



DATE SIGNED: 3/27/2012



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170 Holly Springs Rd.
Mr. Airy, NC 27030

1-800-597-3597
MAIN - 1-336-789-3818
FAX - 1-336-789-4122

OWNER:

TNT METAL BUILDING, INC.

LOCATION: FLORIDA

DRAWING NO.: TNT-FL

DATE: 3/27/2012

PROJECT NUMBER:

039-12-0261

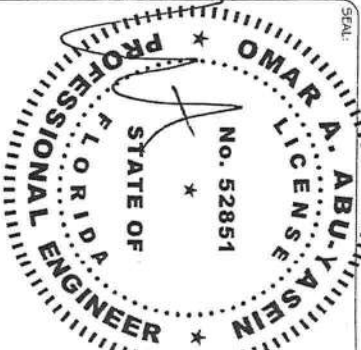
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CHECKED BY: OA

DRAWING TITLE:

LEAN-TO OPTION

SHEET NO.: 8 OF 9



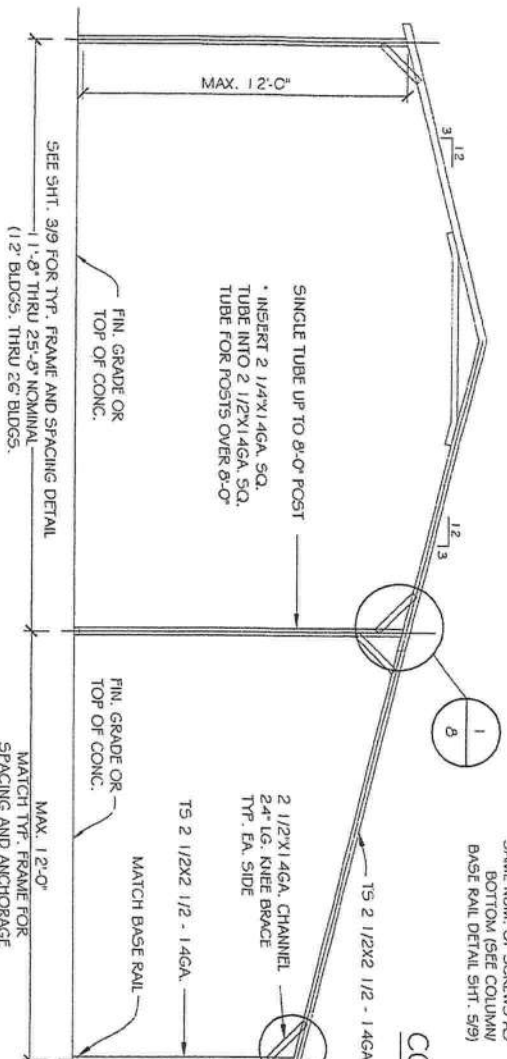
CONNECTION DETAIL
(SCALE: NTS)



CONNECTION DETAIL
(SCALE: NTS)



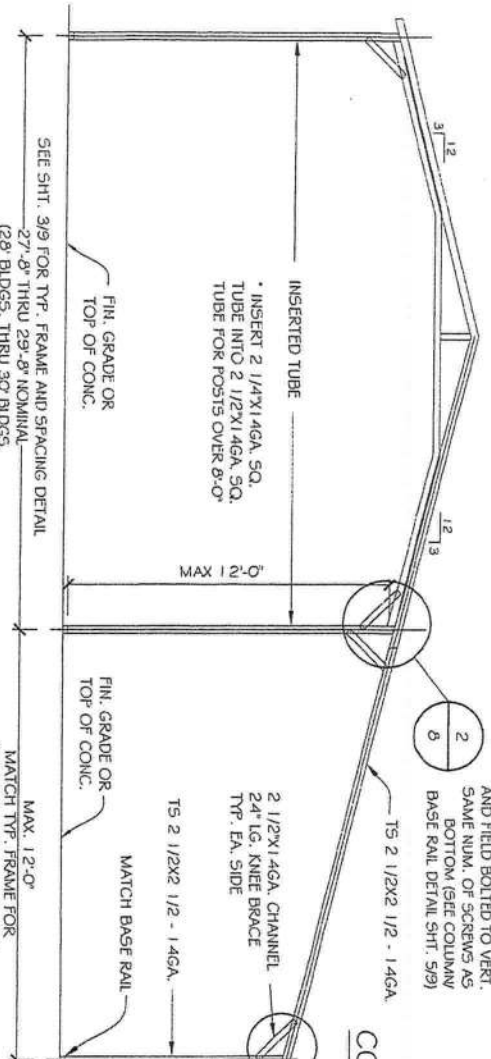
A-FRAME SINGLE BOW LEAN-TO OPTION
(SCALE: NTS)

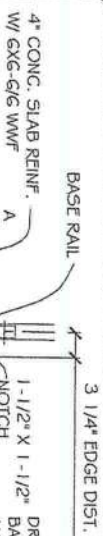


CONNECTION DETAIL
(SCALE: NTS)

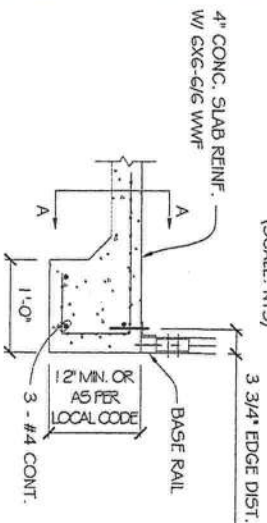


A-FRAME DOUBLE BOW LEAN-TO OPTION
(SCALE: NTS)

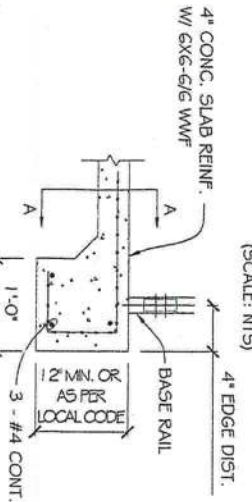




ALTERNATE, FRAME NOTCH IN CONC.

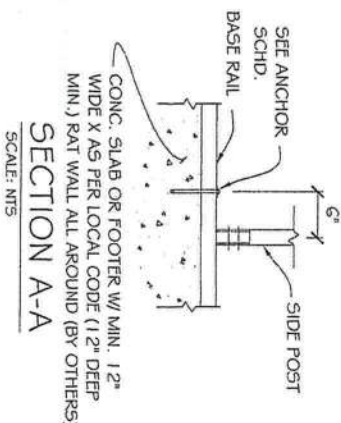


ALTERNATE, FRAME FLUSH W/ CONC.



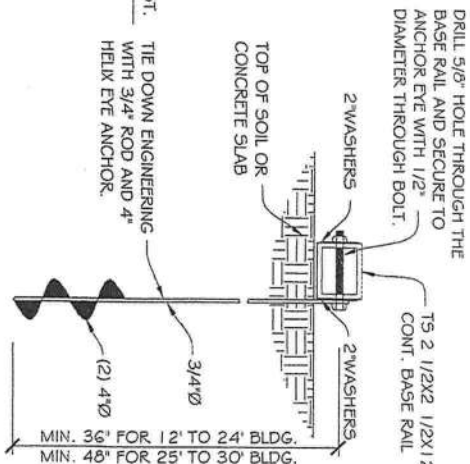
BASE OPTIONAL ANCHOR ON CONC. SLAB SECTION

(SCALE: NTS)



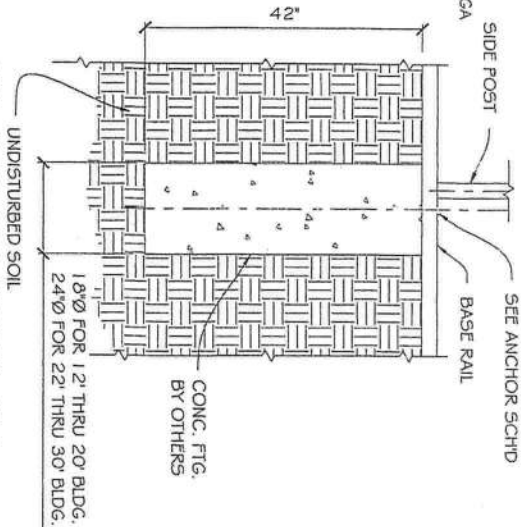
OPTIONAL MOBILE HOME ANCHOR FOR SAND/CLAY

(SCALE: NTS)



PIN ANCHOR DETAIL ON CONCRETE PIER FOOTING

(SCALE: NTS)



NOTE:
ON LEVEL GRADE, DIG A 24\"/>

SOIL CLASSIFICATIONS:

- | SOIL CLASS | SOIL DESCRIPTION |
|------------|--|
| 2 | VERY DENSE #1 OR CEMENTED SANDS, COURSE GRAVEL AND COBBLES, COLICHEL, PRELOADED SILT AND CLAYS |
| 3 | MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS |
| 4 | LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS |

HELICAL ANCHOR SHALL BE APPROVED FOR USE IN SOIL CLASSIFICATIONS 2, 3, AND 4.

TAKEN FROM HUD STANDARD FOR INSTALLATION OF MOBILE HOMES

- NOTE:
- 1: SEE SHT. 2 AND 6 FOR ANCHOR REQUIREMENTS
 - 2: ASSUMED SOIL BEARING CAPACITY IS 1500 PSF
 - 3: CONCRETE STRENGTH TO BE 2500 PSI AT 28 DAYS

CARPORT WIDTH	ANCHOR SIZE		ANCHOR LENGTH		TYPE
	WIND (MPH)	BASE ANCHOR	ALTERNATE ANCHOR		
12 THRU 22'	90-115	120-160	20'		THRD. ROD EMBED IN CONC. INSERT W/ EPOXY IN CONC. EXPANSION BOLTS
23 THRU 30'	120-160	5/8"	7'	5"	WEDGE ANCHORS IN CONC.



5911 Renaissance Pl., Suite B
Toledo, Ohio 43623

Tel: (419) 292-1983
Fax: (419) 292-0955



Metal Buildings Inc.

170 Holly Springs Rd.

Mr. Airy, NC 27030

1-800-597-3597

MAIN - 1-336-789-3818

FAX - 1-336-789-4122

OWNER:

TNT METAL BUILDING, INC.

LOCATION: FLORIDA

DRAWING NO.: TNT-FL

DATE: 3/27/2012

PROJECT NUMBER:

039-12-0261

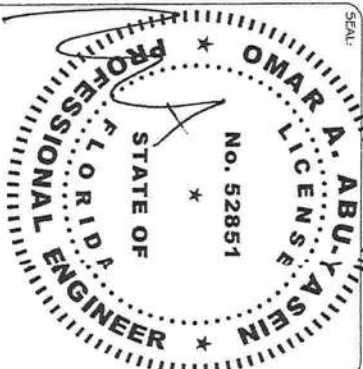
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CHECKED BY: OA

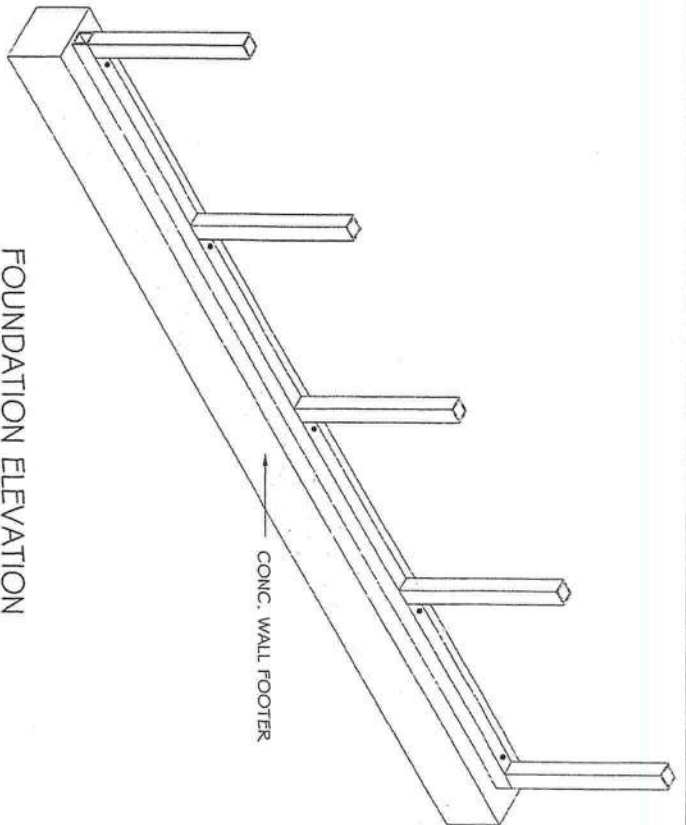
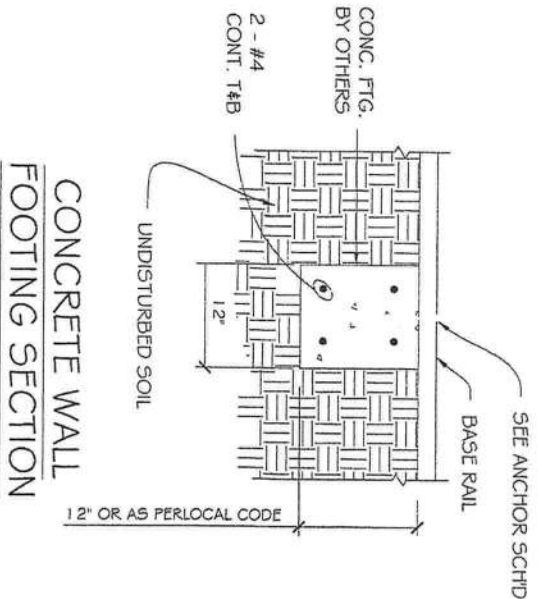
DRAWING TITLE:

ANCHORAGE OPTIONS

SHEET NO.: 9 OF 9



DATE SIGNED: 3/27/2012



FOUNDATION ELEVATION

(SCALE: NTS)

CONCRETE WALL
FOOTING SECTION

SCALE: NTS
TYP. AT EVERY ANCHORED POST

- NOTES:
1. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. 1500 PSF
 2. CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI AT 28 DAYS

ANCHOR SIZE OPTION SCHEDULE

CARPORT WIDTH	ANCHOR SIZE		BASE ANCHOR	ANCHOR LENGTH		TYPE
	WIND (MPH)			ALTERNATE ANCHOR		
12' THRU 22'	90-115	120-160	7"	5"		INSERT W/ EPOXY IN CONC. EXPANSION BOLTS WEDGE ANCHORS IN CONC.
	1/2Ø	5/8Ø				
23' THRU 30'	5/8Ø	3/4Ø				

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Toledo, Ohio 43623

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TNT

Metal Buildings Inc.
170 Holly Springs Rd.
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1-800-597-3597
MAIN - 1-336-789-3818
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LOCATION: FLORIDA

DRAWING NO.: TNT-FL

DATE: 3/27/2012

PROJECT NUMBER: 039-12-0261

DRAWN BY: JMS

CHECKED BY: OA

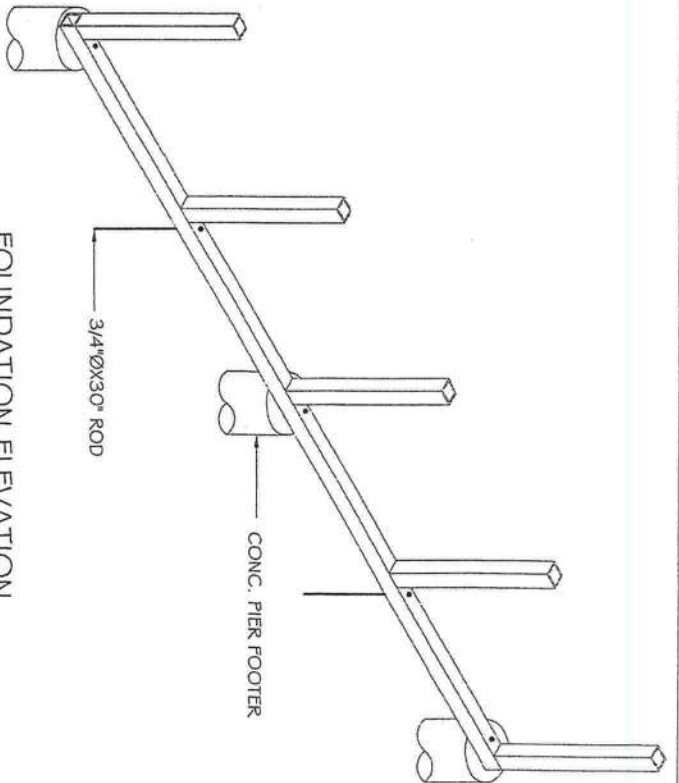
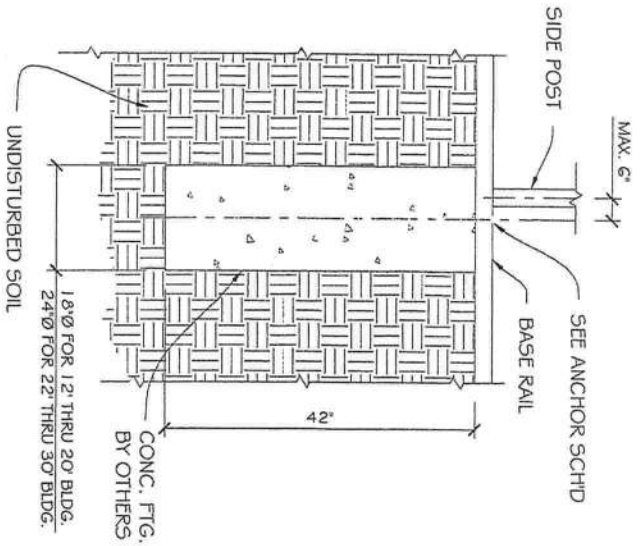
DRAWING TITLE:
ANCHORAGE OPTION
ON CONC. WALL

SHEET NO.: 9 OF 9

SEAL:

ABU-YASEIN
OMAR A.
No. 52851
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE SIGNED: 3/27/2012



PIN ANCHOR DETAIL ON CONCRETE PIER FOOTING

SCALE: NTS
TYP. AT EVERY ANCHORED POST

ANCHOR SIZE OPTION SCHEDULE

CARPORT WIDTH	ANCHOR SIZE		ANCHOR LENGTH		TYPE
	WIND (MPH)		BASE ANCHOR	ALTERNATE ANCHOR	
12' THRU 22'	1/2 Ø	5/8 Ø	20"	20"	THRD. ROD EMBED IN CONC. INSERT W/ EPOXY IN CONC. EXPANSION BOLTS
23' THRU 30'	5/8 Ø	3/4 Ø	7"	5"	WEDGE ANCHORS IN CONC.

- NOTES:
1. CONCRETE PIERS SHALL BE REQUIRED AT ALL CORNER POSTS AND AT EVERY OTHER POST BUT SHALL NOT EXCEED 10-0' OC SPACING IN ANY DIRECTION
 2. ALL OTHER POSTS WITH NO CONCRETE PIER ANCHOR SHALL BE ANCHORED TO THE GROUND WITH 3/4"x30" LG. ROD. RODS SHALL HAVE A WELDED NUT AT TOP AND ONE COAT OF RUST PROVE PRIMER PAINT.
 3. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. 1500 PSF
 4. CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI AT 28 DAYS

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LOCATION: FLORIDA

DRAWING NO.: TNT-FL

DATE: 3/27/2012

PROJECT NUMBER: 039-12-0261

DRAWN BY: JMS

CHECKED BY: OA

DRAWING TITLE: ANCHORAGE OPTION ON CONC. PIERS

SHEET NO.: 9 OF 9

SEAL: **OMAR A. ABU-YASEIN**
No. 52851
STATE OF FLORIDA
PROFESSIONAL ENGINEER

DATE SIGNED: 3/27/2012

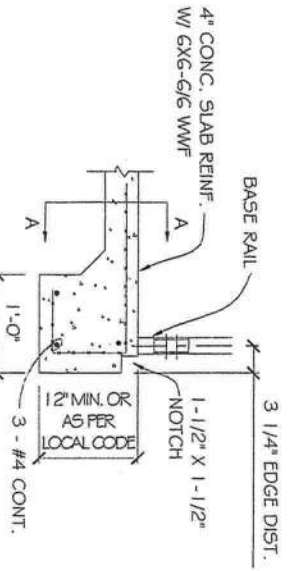
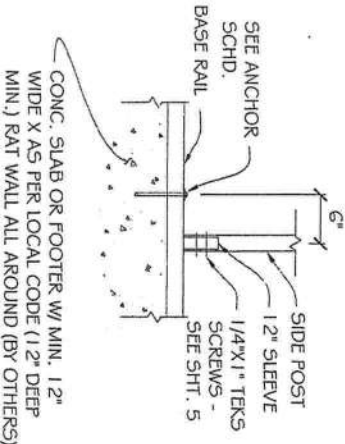


ALTERNATE, FRAME FLUSH W/ CONC.

(SCALE: NTS)

BASE OPTIONAL ANCHOR ON CONC. SLAB SECTION

(SCALE: NTS)



SECTION A-A

SCALE: NTS

ANCHOR SIZE OPTION SCHEDULE

CARPORT WIDTH	ANCHOR SIZE		ANCHOR LENGTH		TYPE
	WIND (MPH)	BASE ANCHOR	ALTERNATE ANCHOR		
90-115	120-160				
12' THRU 22'	1/2"	5/8"	5"		INSERT W/ EPOXY IN CONC. EXPANSION BOLTS WEDGE ANCHORS IN CONC.
23' THRU 30'	5/8"	3/4"			

NOTE:

1. PROVIDE A MIN. OF (1) ANCHOR AT ±6" FROM CENTER OF EACH POST
2. ALL ANCHORS SHALL BE A307 OR BETTER
3. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. 1500 PSF
4. CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI AT 28 DAYS

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SINCE 1966

5911 Renaissance Pl., Suite B
Toldeo, Ohio 43623

Tel: (419) 292-1983
Fax: (419) 292-0955

TNT

Metal Buildings Inc.
170 Holly Springs Rd.
Mt. Airy, NC 27030

1-800-597-3597
MAIN - 1-336-789-3818
FAX - 1-336-789-4122

OWNER: TNT METAL BUILDING, INC.

LOCATION: FLORIDA

DRAWING NO.: TNT-FL

DATE: 3/27/2012

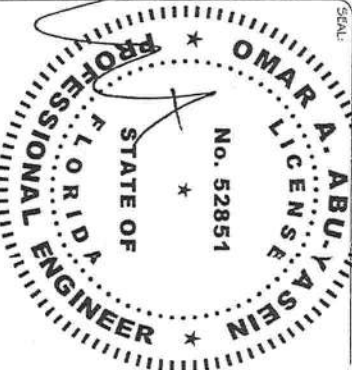
PROJECT NUMBER: 039-12-0261

DRAWN BY: JMS

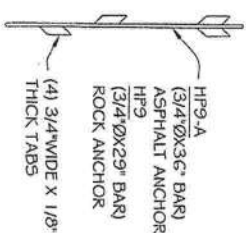
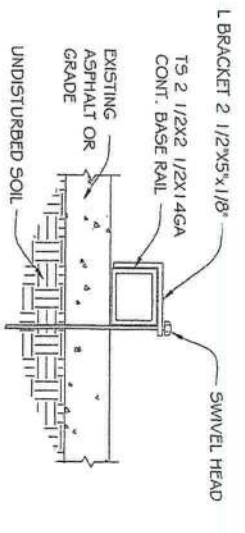
CHECKED BY: OA

DRAWING TITLE: ANCHORAGE OPTION ON CONC. SLAB

SHEET NO.: 9 OF 9

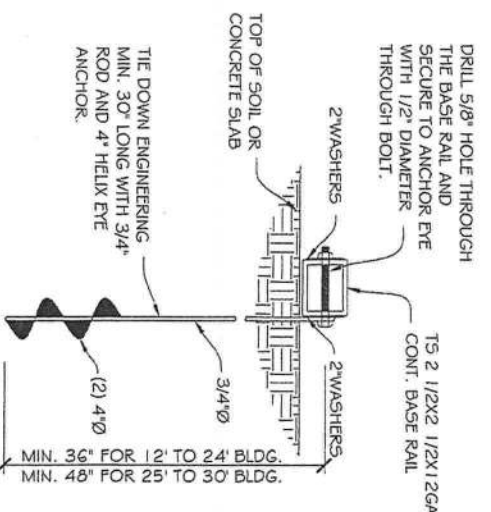


DATE SIGNED: 3/27/2012



OPTIONAL ASPHALT/ ROCK ANCHOR DETAIL

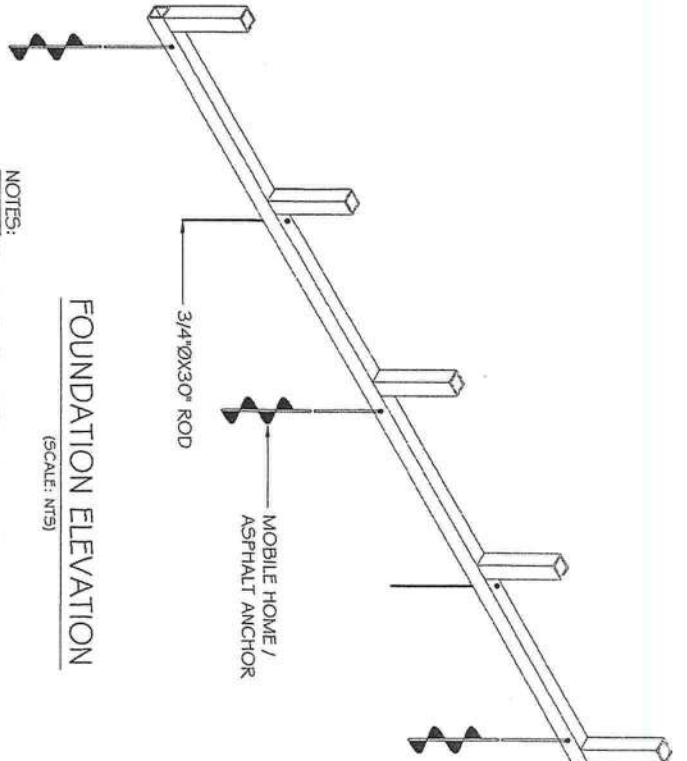
(SCALE: NT5)



OPTIONAL MOBILE HOME ANCHOR FOR SAND/CLAY

(SCALE: NT5)

NOTE:
HELICAL ANCHORS ARE NOT TO BE USED IF DRIVING TORQUE INTO GROUND IS LESS THAN 150 FT-LBS OR DON'T MEET ONE OF THE FOLLOWING SOIL CLASSIFICATIONS.



FOUNDATION ELEVATION

(SCALE: NT5)

1. MOBILE HOME ANCHORS SHALL BE REQUIRED AT ALL CORNER POSTS AND AT EVERY OTHER POST BUT SHALL NOT EXCEED 10'-0\"/>

SOIL CLASSIFICATIONS:

SOIL CLASS	SOIL DESCRIPTION
2	VERY DENSE #1 OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, COLICHE, PRELOADED SILT AND CLAYS
3	MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS
4	LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, ALLUVIAL FILL AND VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, ALLUVIAL FILL.

HELICAL ANCHOR SHALL BE APPROVED FOR USE IN SOIL CLASSIFICATIONS 2, 3, AND 4.

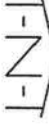
*TAKEN FROM HUD "STANDARD FOR INSTALLATION OF MOBILE HOMES"



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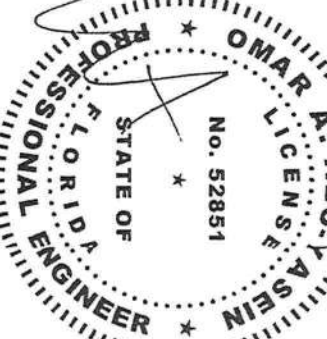
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DRAWING TITLE:	ANCHORAGE OPTION ON GROUND
SHEET NO.:	9 OF 9



OMAR A. ABU-ABU
LICENSED PROFESSIONAL ENGINEER
No. 52851
STATE OF FLORIDA

DATE SIGNED: 3/27/2012