

Builder/Contractor Responsibilities

Drawing Validity - These drawings, supporting structural calculations and design certification are based on the order documents as of the date of these drawings. These documents describe the material supplied by the manufacturer as of the date of these drawings. Any changes to the order documents after the date on these drawings may void these drawings, supporting structural calculations and design certification. The Builder/Contractor is responsible for notifying the building authority of all changes to the order documents which result in changes to the drawings, supporting structural calculations and design certification.

Builder Acceptance of Drawings - Approval of the manufacturer's drawings and design data affirms that the manufacturer has correctly interpreted and applied the requirements of the order documents and constitutes Builder/Contractor acceptance of the manufacturer's interpretations of the order documents and standard product specifications, including its design, fabrication and quality criteria standards and tolerances. (AISC code of standard practice Sept 88 Section 4.2.1)(Mar 05 Section 4.4.1)

Code Official Approval - It is the responsibility of the Builder/Contractor to ensure that all project plans and specifications comply with the applicable requirements of any governing building authority. The Builder/Contractor is responsible for securing all required approvals and permits from the appropriate agency as required.

Building Erection - The Builder/Contractor is responsible for all erection of the steel and associated work in compliance with the Metal Building Manufacturers drawings. Temporary supports, such as temporary gys, bracs, false work or other elements required for erection will be determined, furnished and installed by the erector. (AISC Code of Standard Practice Sept 88 Section 7.9.1) (Mar 05 Section 7.10.3) (CSA/S16-09 Section 29)

Discrepancies - Where discrepancies exist between the Metal Building plans and plans for other trades, the Metal Building plans will govern. (AISC Code of Standard Practice Sept 86 Section 3.3) (Mar 05 Section 3.3)

Materials by Others - All interface and compatibility of any materials not furnished by the manufacturer are the responsibility of and to be coordinated by the Builder/Contractor or A/E firm. Unless specific design criteria concerning any interface between materials if furnished as a part of the order documents, the manufacturer's assumptions will govern.

Modification of the Metal Building from Plans - The Metal Building supplied by the manufacturer has been designed according to the Building Code and specifications and the loads shown on this drawing. Modification of the building configuration, such as removing wall panels or bracs, from that shown on these plans could affect the structural integrity of the building. The Metal Building Manufacturer or a Licensed Structural Engineer should be consulted prior to making any changes to the building configuration shown on these drawings. The Metal Building Manufacturer will assume no responsibility for any loads applied to the building not indicated on these drawings.

Foundation Design
The Metal Building Manufacturer is not responsible for the design, materials and workmanship of the foundation. Anchor rod plans prepared by the manufacturer are intended to show only location, diameter and projection of the anchor rods required to attach the Metal Building System to the foundation. It is the responsibility of the end customer to ensure that adequate provisions are made for specifying rod embedment, bearing values, tie rods and or other associated items embedded in the concrete foundation, as well as foundation design for the loads imposed by the Metal Building System, other imposed loads, and the bearing capacity of the soil and other conditions of the building site. (MBMA 06 Section 2.2 and A3)



metallic building company

7301 FAIRVIEW • HOUSTON, TEXAS • P.O. BOX 40338
ZIP 77041 (713) 466-7788 ZIP 77240

ENGINEERING DESIGN CRITERIA

Building Code	2010 Florida
Building Risk Category	Normal
Roof Head Load	8.10 psf
Super Imposed	3.00 psf
Collateral	0.00 psf
(2.00 psf Ceiling 1.00 psf Dither)	
Roof Live Load	20.00 psf reduction allowed
Wind	
Basic Wind Speed	119.00 mph
Wind Exposure Category	B
Internal Pressure Coef (GCp)	0.18/-0.18
Internal Pressure Coef (GCp)	0.18/-0.18
Corner Areas (within 5.00' of corner)	E3.31 psf pressure -31.08 psf suction
Other Areas	E3.31 psf pressure -25.25 psf suction
These values are the maximum values required based on a 10 sq ft area.	
Components with larger areas may have lower wind loads.	

DEFLECTION CRITERIA

The material supplied by the manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending on actual load and actual member length. The frame sideways for wind loading is based on ASCE 7 commentary equation CC-3 of 0.7%. The limits shown are at service loads unless indicated otherwise.

BUILDING DEFLECTION LIMITS... BLDG-A

Ceiling Type: Acoustical or Other

Roof Limits	Refers	Purlins	Panel
Live L/	150		
Snow L/	N/A		
Wind L/	180		
Other L/	180		
Total Gravity L/	120		
Total Uplift L/	N/A		
Frame Limits	Sideway	Partial Frame Sideway	
Live H/	100		
Snow H/	100		
Wind H/	N/A		
Seismic Drift H/	N/A		
Crane H/	100		
Total Gravity H/	100		
Total Wind H/	100		
Service Seismic H/	100		
Wall Limits	Limit		
Total Wind Panels L/	60		
Total Wind Girts L/	240		
Total Wind Ex Columns L/	120		

The Service Seismic limit as shown here is at service level loads.

PROJECT NOTES

BOLT TIGHTENING - All bolted joints with A325-D9 Type 1 bolts are specified as snug-tightened joints in accordance with the Specification for Structural Joints Using ASTM A325 or A490 Bolts, June 30, 2004. Pretensioning methods including turn-of-nut and calibrated wrench, twist off type tension control bolts on direct tension indicator are NOT required. Installation inspection requirements for Snug Tight Bolts (Specification for Structural Joints Section 9.1) is suggested.

Material properties of steel bar, plate, and sheet used in the fabrication of structural framing members conform to ASTM A529, ASTM A572, ASTM A1011 SS, or ASTM A1011 HSLAS with a minimum yield point of 50 ksi. Material properties of hot-rolled structural shapes conform to ASTM A992, ASTM A992, or ASTM A722 with a minimum specified yield point of 50 ksi. Hot-rolled angles, other than flange bracs, conform to ASTM 36 minimum yield structural shapes conform to ASTM A500 grade B, minimum yield point is 42 ksi for round HSS and 46 ksi for rectangular HSS. Material properties of cold-formed light-gage steel members conform to the requirements of ASTM A1011 SS Grade 55, ASTM A1011 HSLAS Grade 55 Class 1, ASTM A653 SS Grade 35, or ASTM A653 HSLAS Grade 55 Class 1 with a minimum yield point of 35 ksi. For Canada, material properties conform to CAN/CSA G40.21/40.21 or equivalent.

Design criteria as noted is as given within order documents and is applied in general accordance with the applicable provisions of the model code and/or specification indicated. Neither the manufacturer nor the certifying engineer declares or attests that the loads as designated are proper for local provisions that may apply or for site specific parameters. The design criteria is applied by the builder, project owner, or an architect and/or Engineer of Record for the overall construction project.

Using 80# eve gutter with 4 x 5 downspouts, the roof drainage system has been designed using the method outlined in the MBMA Metal Building Systems Manual. Downspout locations have not been located on these drawings. The downspouts are to be placed on the building s'evels at a spacing not to exceed 48 feet with the first downspout from both ends of the gutter run within 24 feet of the end. Downspout spacing that does not exceed the gutter and downspout system as provided by the manufacturer is designed to accommodate 10 in/hr rainfall intensity.

Framed openings, walk doors, and open areas shall be located in the bay and elevation as shown in the erection drawings. The cutting or removal of girts shown on the erection drawings due to the addition of framed openings, walk doors, or open areas not shown may void the design certifications supplied by the metal building manufacturer.

X-Bracing is to be installed to a taut condition with all slack removed. Do not tighten beyond this state.

Diaphragm action of the wall panels on EVB is being used to provide stability to the wall. Removal of the wall panels may result in less than minimum length wall panels required. Field installation of x-bracing or other means to provide stability may be required as a result of the removal of wall panels.

The wall construction by others at SVC shall not impose any additional loads to the material supplied by the metal building manufacturer. Design loads accounted for due to the material by others only include additional wind loading due to the 2' parapet between frame lines 3 and 4.

The mezzanines, not by metal building manufacturer, in building building shall not attach to material supplied by manufacturer. Design stability of the mezzanine for vertical, lateral, and longitudinal loading is not by metal building manufacturer.

GRIP	LENGTH	BOLT LENGTH	NOTE:
0 TO 9/16"	1 1/4" F.T.		FULL THREAD ENGAGEMENT IS DEMAND TO HAVE BEEN MET WHEN THE END OF THE BOLT IS FLUSH WITH THE FACE OF THE NUT.
Over 9/16" TO 1 1/16"	1 3/4" F.T.		
Over 1 1/16" TO 1 5/16"	2"		
Over 1 5/16" TO 1 9/16"	2 1/4"		
Over 1 9/16" TO 1 13/16"	2 1/2"		
Over 1 13/16" TO 2 1/16"	2 3/4"		

WASHER REQUIRED ONLY WHEN SPECIFIED.
WASHER MAY BE LOCATED UNDER HEAD OF BOLT, UNDER NUT, OR AT BOTH AT LOCATIONS NOTED ON ERECTION DRAWINGS.
NOTE: ADD 5/16" FOR EACH WASHER TO MATERIAL THICKNESS TO DETERMINE GRIP.

Building ID	Width	Length	Height	Slope
Building A	50'-0"	100'-0"	13'-9"	1:6.12

Page	Description	BY	CHK
F1	Anchor Rod		
F2	Anchor Rod Details		
F3	Reaction Drawings		
E1	Cover Sheet		
E2	Primary Steel BLDGA		
E3	Roof Framing BLDGA		
E4	Roof Sheeting		
E5	Sidewall BLDGA WALLSWA		
E6	Sidewall BLDGA WALLSWC		
E7	Sidewall BLDGA WALLEWB		
E8	Endwall BLDGA WALLEWD		
E9-E10	Main Frame Cross Sections		
E11	Connection Detail		
E12	Iso Trim		
R1-R14	Construction Drawings		
R15	Trim Profiles		



metallic building company
7301 FAIRVIEW • HOUSTON, TEXAS • P.O. BOX 40338
ZIP 77041 (713) 466-7788 ZIP 77240

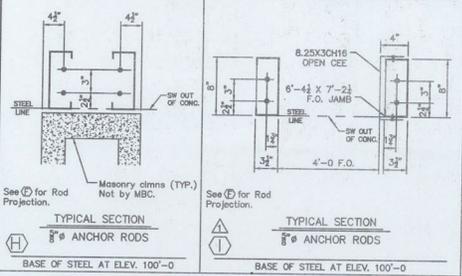
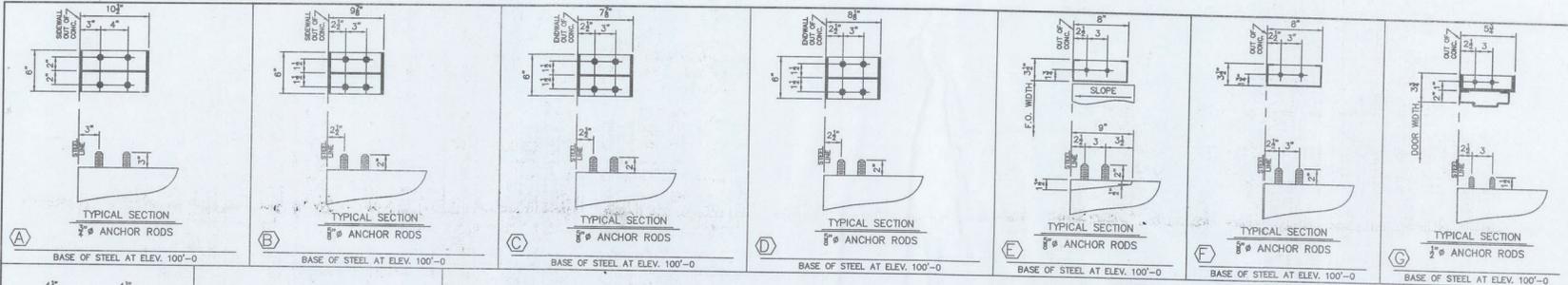
Customer: ONET GROUP
FRANZ MUTIS
1750 A SW MAIN BLVD.
DALLAS, TX 75205
JACKSONVILLE, FL 32205

Scale: NOT TO SCALE
Drawn by: AWS 2/24/14
Checked by: SE 2/24/14
Project Engineer: ANX
Job Number: 14-B-39239-1
Sheet Number: E1 of 12

The engineer whose seal appears hereon is on employe for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Franz Mutis, P.E.
Florida P.E. 68606





Revision	Date	Description	By	Ch'g
0	02/19/14	FOR DIRECTOR INSTALLATION	AMS	SF
1	02/27/14	REVISED FOR DIRECTOR INSTALLATION	AMS	SF

metallic building company
 230 W. WILSON - WILSON, FLORIDA 32063-0000
 771 W. UNIVERSITY - WILSON, FLORIDA 32063-0000
 Project Name: Location:
 MONSTA CLOTHING INC.
 TRANS MERIDIAN RD.
 LAKE CITY, FL 32025
 Drawing Status: For Approval For Construction For Construction Permit For Director Installation

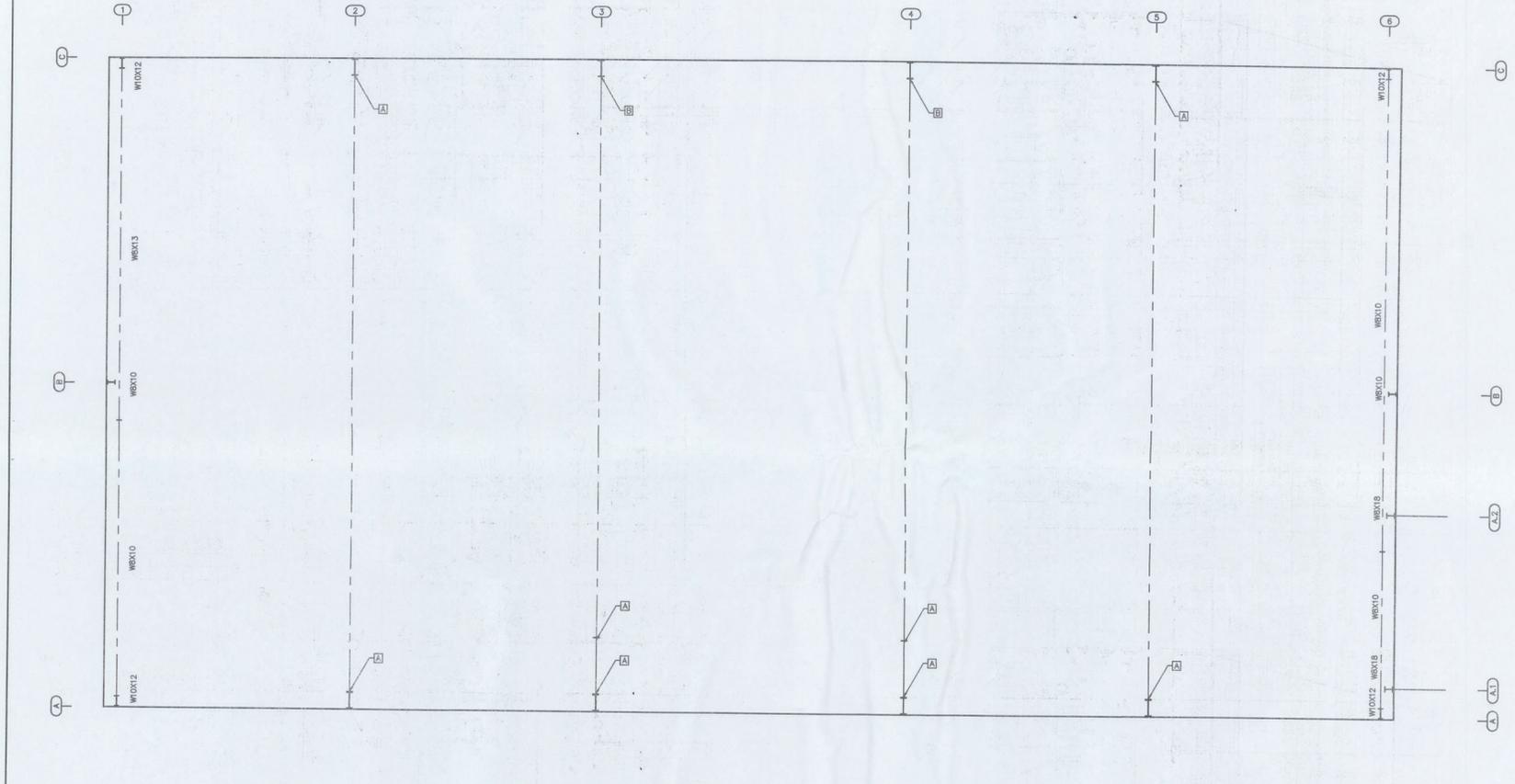
Scale: NOT TO SCALE
 Drawn by: AMS 2/19/14
 Checked by: SF 2/19/14
 Project Engineer: AXN
 Job Number: 14-B-39239-1
 Sheet Number: F2 of 3

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Franz Mutis, P.E.
 Florida P.E. 88606



SPUCE BOLT TABLE					
CONN.	QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	(6)	1/2" X 2"	A325 B&N	0	0
B	(6)	1/2" X 2"	A325 B&N	0	0



PRIMARY STEEL LOCATION PLAN

Revision	Date	Description
A	02/24/14	FOR CONSTRUCTION PERMIT

By: AWS
 Ck'd: SF

metallic building company
 720 Welch • Orlando, FL 32803
 407-84-7791

METALLIC
 CONSULTING ENGR'G GROUP
 1100 W. WINDYBROOK BLVD.
 SUITE 200
 LAKE CITY, FL 32825

Project Name & Location:
 TRAVIS MEDERROS
 1100 W. WINDYBROOK BLVD.
 LAKE CITY, FL 32825

Scale: NOT TO SCALE
 Drawn by: AWS 2/24/14
 Checked by: SF 2/24/14
 Project Engineer: AXN
 Job Number: 14-B-39239-1
 Sheet Number: E2 of 12

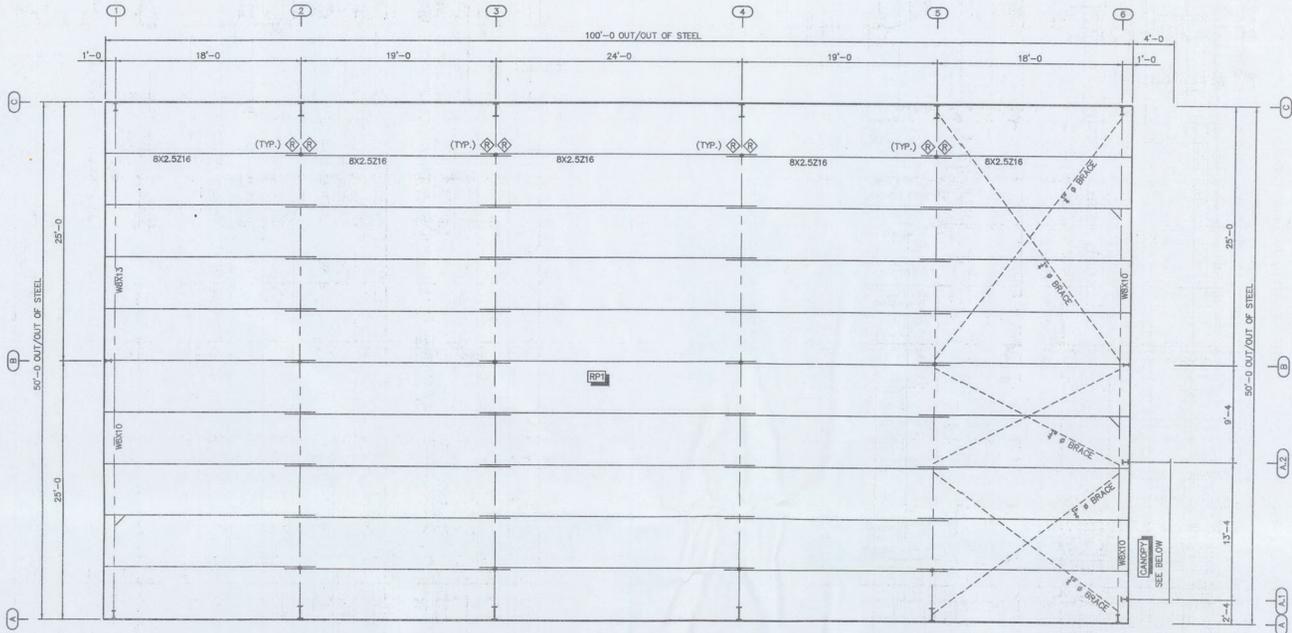
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Seal and certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

For Construction Permit: For Erector Installation:
 For Approval: For Approval:

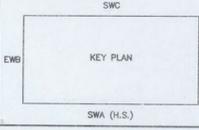
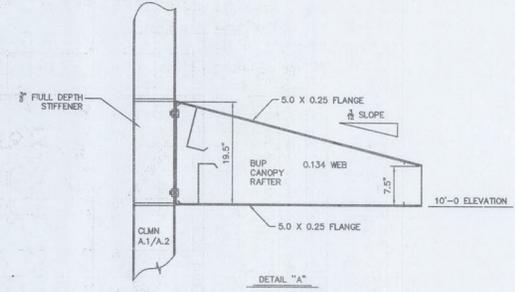
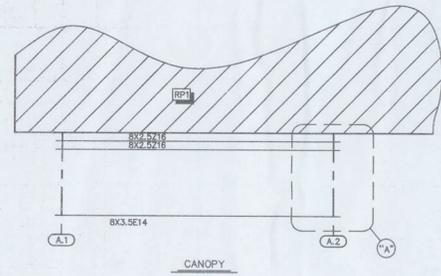
Franz Mutis, P.E.
 Florida P.E. 68806



● - DENOTES CLIP LOCATION
 SC30 AT 8" PURLINS
 SC32 AT 10" PURLINS
 SC34 AT 12" PURLINS



ROOF FRAMING PLAN



Z SECTION LAP TABLE			
SYMBOL	LAP (LENGTH)	SYMBOL	LAP (LENGTH)
◇	0'-2" (3#)	◇	2'-4" (2-2#)
◇	1'-4" (1-2#)	◇	3'-0" (3-1#)

By	CA/P
AND	SF
Description	
Date	02/24/14 FOR CONSTRUCTION PERMIT
Revision	A

metallic building company
 3306 W. US HWY 78, SUITE 100
 FORT WORTH, TX 76106
 (817) 476-7770

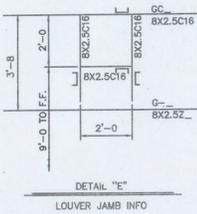
METALLIC
 CUSTOMER: WEST GROUP
 TRANS MEDICAL
 750 A SW MAIN BLVD.
 LAS VEGAS, NV 89101
 1-SEC. 15-39229

Customer: Preliminary For Construction Permit For Erector Installation
 (Only For Construction)

Scale: NOT TO SCALE
 Drawn by: AWS 2/24/14
 Checked by: SF 2/24/14
 Project Engineer: AXN
 Job Number: 14-B-39239-1
 Sheet Number: E3 of 12

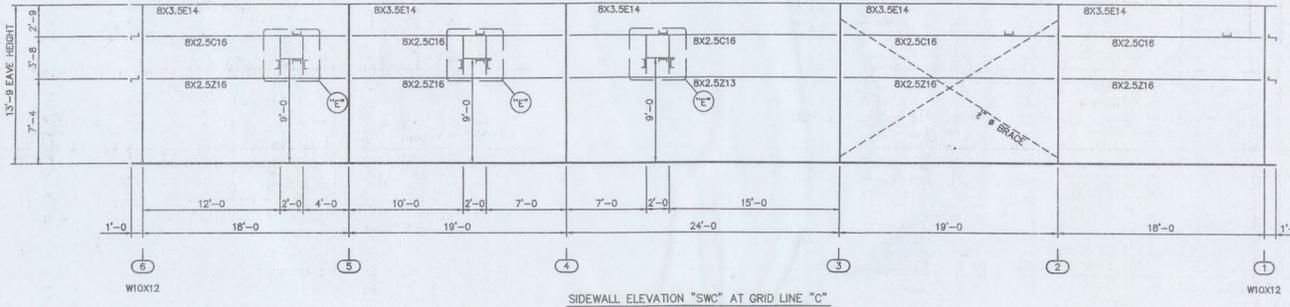
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer, only. The undersigned engineer is not the overall engineer of record for this project.

Franz Mutis, P.E.
 Florida P.E. 65606

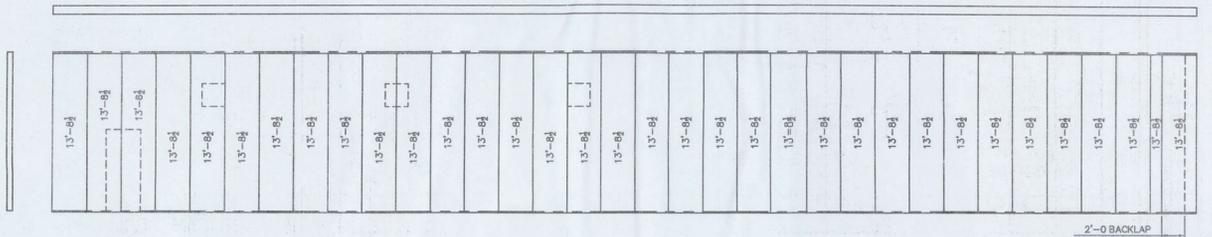


DETAIL "E"
LOUVER JAMB INFO

CL292- FASTENERS BETWEEN THE GIRTS ON EACH SIDE OF THE SIDEWALL COLUMNS, AT ALL GIRT ELEVATIONS. REFER TO DETAILS.
PC30- FASTENERS BETWEEN THE GIRTS ON EACH SIDE OF THE SIDEWALL COLUMNS, AT ALL GIRT ELEVATIONS.

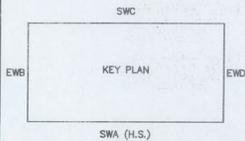


SIDEWALL ELEVATION "SWC" AT GRID LINE "C"



WALL SHEETING ELEVATION "SWC"
BLDG A

PBR WALL PANELS
PANEL COVERAGE = 3'-0"
COLOR = CHARCOAL GRAY
PANEL PKG. REQ'D. = PBS-3

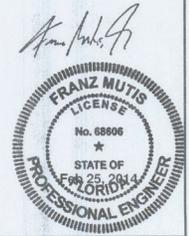


SWC

KEY PLAN

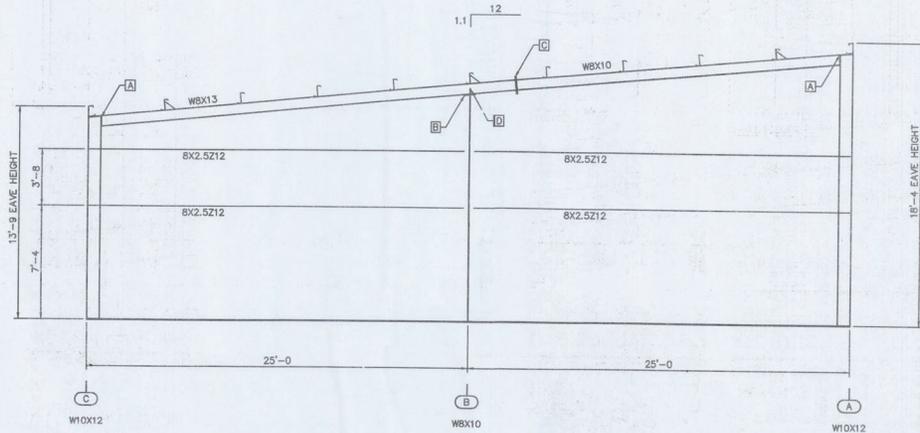
SWA (H.S.)

Revision	A	Description	FOR CONSTRUCTION PERMIT
Date	02/24/14	By	AWS SF
Project Name & Location: MONSTA CLOTHING TRAVIS MEDFORD BLVD. LAKE CITY, FL 32025			
Customer: TRADEMARK CRST. GROUP 120 S. MASSAHOUST. LAKE CITY, FL 32025			
Drawing Status: <input type="checkbox"/> For Approval <input checked="" type="checkbox"/> For Construction <input type="checkbox"/> For Erector Installation			
Scale: NOT TO SCALE Drawn by: AWS 2/24/14 Checked by: SF 2/24/14 Project Engineer: AXN Job Number: 14-B-39239-1 Sheet Number: E6 of 12			
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.			
Franz Mutis, P.E. Florida P.E. 68806			

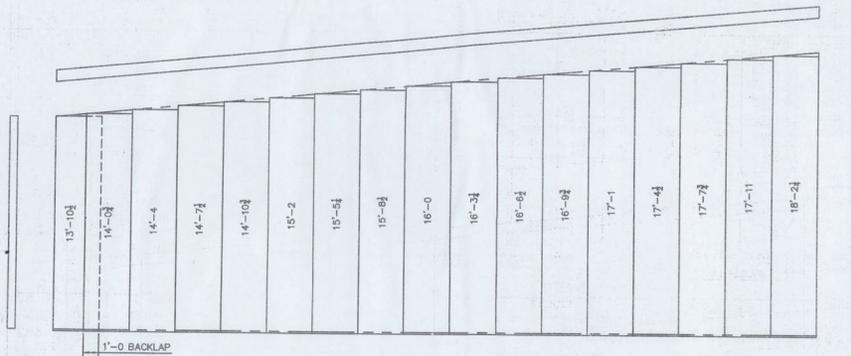


SPLICE BOLT TABLE				
CONN.	QTY.	SIZE	TYPE	HARDENED BEVELED WASHERS
A	(2)	1/2 X 1 1/2	A325 B&N	0
B	(4)	1/2 X 1 1/2	A325 B&N	4
C	(8)	1/2 X 1 1/2	A325 B&N	0
D	(4)	1/2 X 1 1/2	A325 B&N	0

CL202 - FASTENS BETWEEN THE GRIDS ON EACH SIDE OF THE ENDWALL COLUMNS AT ALL GIRT ELEVATIONS. REFER TO DETAILS.

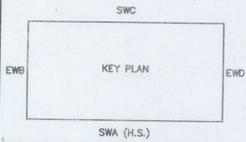


ENDWALL ELEVATION "EWB" AT GRID LINE "1"



PBR WALL PANELS
 PANEL COVERAGE = 3'-0"
 COLOR = CHARCOAL GRAY
 PANEL PKG. REC'D. = PBS-1

WALL SHEETING ELEVATION "EWB"
 BLDG A



Revision	Date	Description	By	CHK
A	02/24/14	FOR CONSTRUCTION PERMIT	ANS	SF

Scale: NOT TO SCALE

Drawn by: AWS 2/24/14
 Checked by: SF 2/24/14
 Project Engineer: AXN
 Job Number: 14-B-39239-1
 Sheet Number: E7 of 12

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Customer: TRADEMARK CHST. GROUP
 128 SW NASSAU ST.
 LAKE CITY, FL 32025

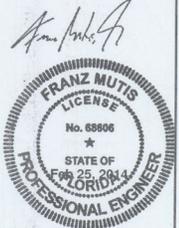
Project Name & Location: MONSTA CLOTHING
 750 A SW MAN BLVD.
 LAKE CITY, FL 32025

Drawing Status: New For Construction For Construction Permit For Approval For Erector Installation

308 RIVERA • WESPA, LLC • P.O. BOX 4333
 ZIP 77041 (713) 66-7766 ZIP 77040

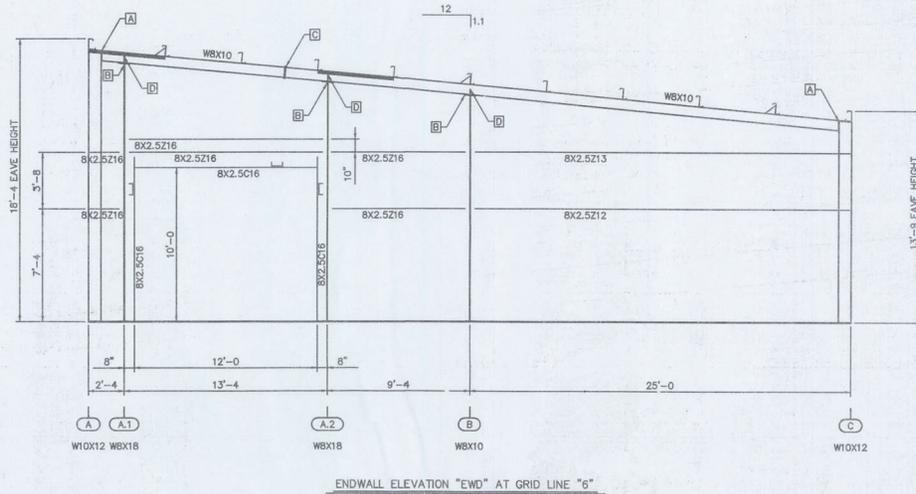
METALLIC metallic building company

Franz Mutis, P.E.
 Florida P.E. 68606



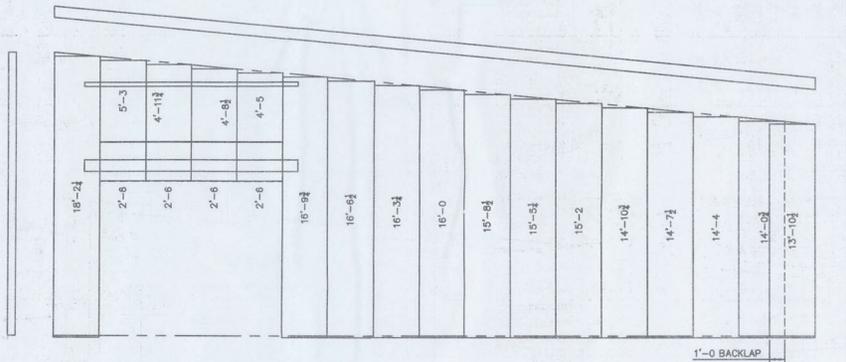
SPLICE BOLT TABLE					
CONN.	QTY.	SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	(2)	1/2 X 1 1/2	A325 B&N	0	0
B	(4)	1/2 X 1 1/2	A325 B&N	4	0
C	(4)	1/2 X 1 1/2	A325 B&N	0	0
D	(4)	3/4 X 1 1/2	A325 B&N	0	0

CL292 - FASTENS BETWEEN THE BRIS'S ON EACH SIDE OF THE ENDWALL COLUMNS, AT ALL GIRT ELEVATIONS. REFER TO DETAILS.

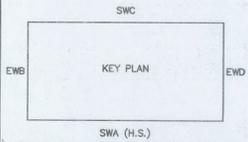


ENDWALL ELEVATION "EWD" AT GRID LINE "6"

PBR WALL PANELS
 PANEL COVERAGE = 3'-0"
 COLOR = CHARCOAL GRAY
 PANEL PKG. REV'D. = PWS-4

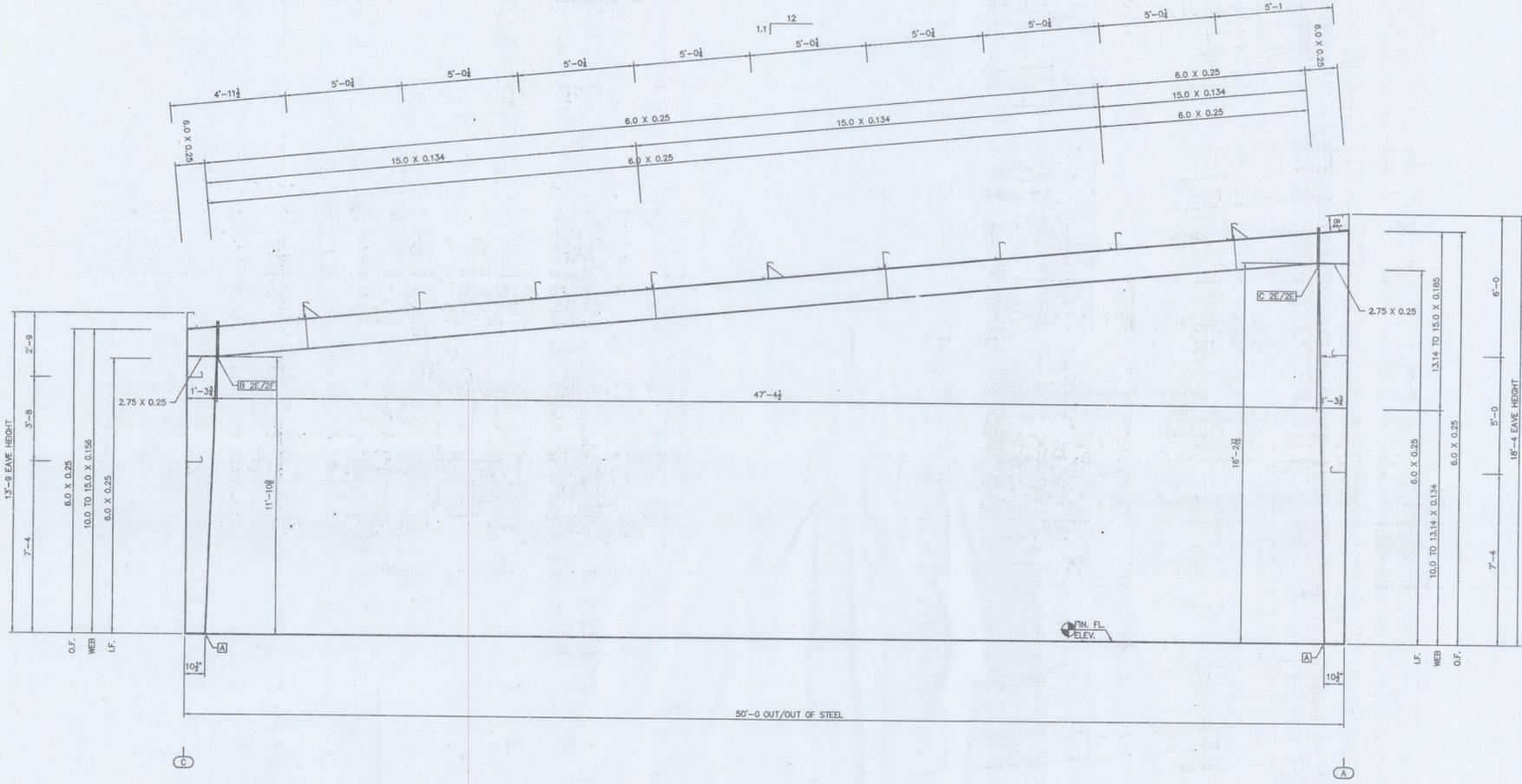


WALL SHEETING ELEVATION "EWD"
 BLDG A



	metallic building company <small>2777 W. US HWY 90 • SUITE 100 • FT. LAUDERDALE, FL 33309 (754) 776-7777</small>	Project Name & Location: MONSTA CLOTHING TRAVIS MEDEROS BLDG LAKE CITY, FL 32025	<input checked="" type="checkbox"/> For Construction Permit <input type="checkbox"/> For Construction Permit Approval <input type="checkbox"/> For Erector Installation
	Customer: TRADEMARK CRST. GROUP TRAVIS MEDEROS 10000 W. US HWY 90 LAKE CITY, FL 32025	Drawing Status: <input type="checkbox"/> Preliminary <input type="checkbox"/> For Approval <input type="checkbox"/> For Approval (Not For Construction)	Revision: A
Scale: NOT TO SCALE	Drawn by: AMS	Checked by: SF	Project Engineer: AXN
Job Number: 14-B-39239-1	Sheet Number: EB of 12	The engineer whose seal appears hereon is an employee for the manufacture for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.	
 Franz Mutis, P.E. Florida P.E. 68606			

GENERAL NOTES
 FRAME CLEARANCES SHOWN ARE APPROXIMATE AND
 MAY VARY DUE TO CONDITIONS (DEFLECTION).
 VERTICAL CLEARANCE DIMENSIONS ARE FROM
 FINISHED FLOOR REFERENCE ELEVATION.



CROSS SECTION AT FRAME LINE "2" & "5"

CONN.	PLATE SIZE TABLE		SPLICE BOLT TABLE			
	LOW SIDE	HIGH SIDE	QTY.	SIZE	TYPE	WASHERS WASHERS
A	6 X 0.375 X 0'-10 1/2					
B	6 X 0.5 X 1'-7	6 X 0.5 X 1'-6 1/2	(8)	3/4 X 2"	A325 B&N	0 0
C	6 X 0.5 X 1'-8 1/2	6 X 0.5 X 1'-9	(8)	3/4 X 2"	A325 B&N	0 0

Revision	Date	Description
A	02/24/14	FOR CONSTRUCTION PERMIT

metalic building company
 Project Name & Location:
 MONSTA CLOTHING
 7500 SW HANSAU BLVD.
 LAKE CITY, FL 33025

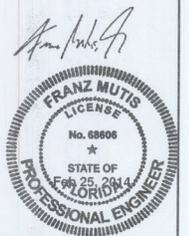
Customer:
 TRADEMARK CRST. GROUP
 128 SW HANSAU ST.
 LAKE CITY, FL 33025

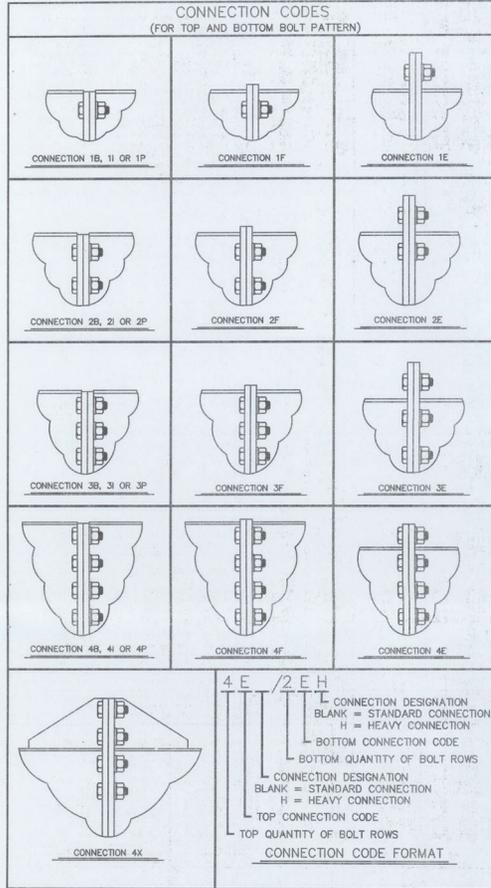
Drawing Status: For Construction Permit For Approval For Erector Installation

Scale: NOT TO SCALE
 Drawn by: AWS 2/24/14
 Checked by: SF 2/24/14
 Project Engineer: AXN
 Job Number: 14-B-39239-1
 Sheet Number: E9 of 12

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Franz Mutis, P.E.
 Florida P.E. 88606





CONNECTION CODE DESCRIPTION

B = THIS DESCRIPTION CODE IS USED TO DEFINE SHEAR CONNECTIONS. BOLTS ARE LOCATED INSIDE THE OUTER FLANGE AND CONNECTION PLATE IS RECESSED 1/8" BELOW THE OUTER FLANGE.

I = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED INSIDE THE OUTER FLANGE AND CONNECTION PLATE IS RECESSED 1/8" BELOW THE OUTER FLANGE.

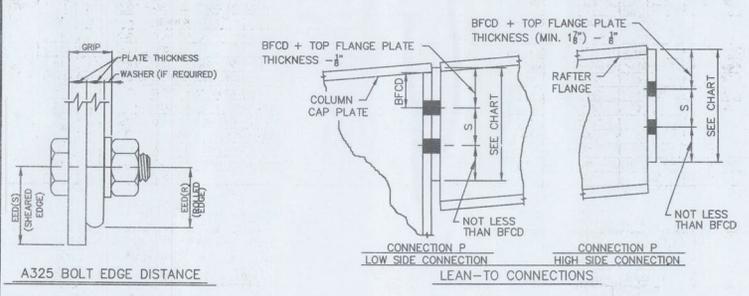
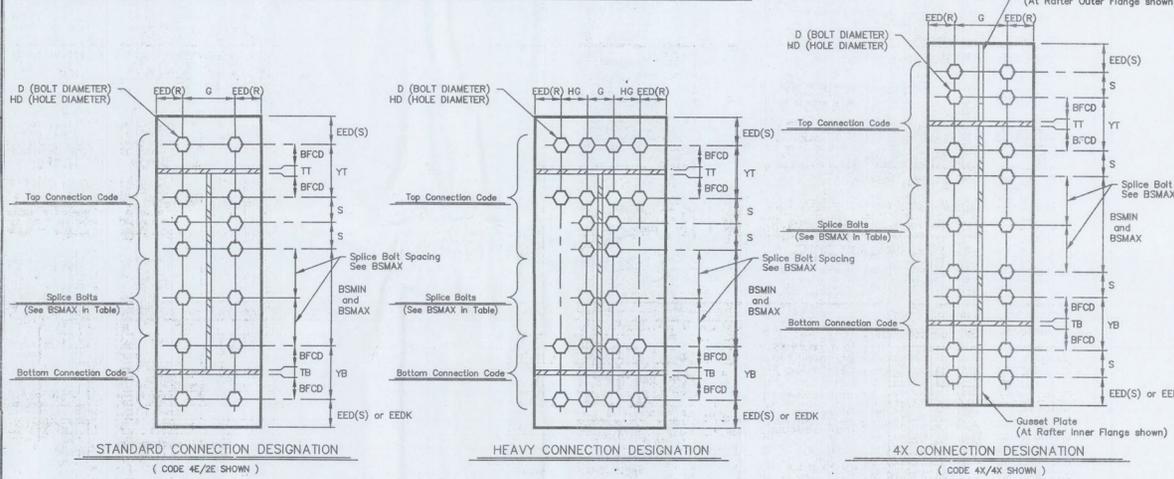
P = THIS DESCRIPTION CODE IS THE SAME AS B CODE, BUTT PLATE LENGTH MUST BE A MINIMUM OF 1/2" THE RAFTER DEPTH AND SHALL NOT EXCEED RAFTER TOTAL DEPTH.

F = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED INSIDE THE OUTER FLANGE AND CONNECTION PLATE PROJECTS 1/2" ABOVE THE OUTER FLANGE.

E = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED WITH ONE SET OUTSIDE THE OUTER FLANGE AND REMAINDER SETS LOCATED INSIDE THE OUTER FLANGE.

4X = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED WITH TWO SETS EITHER SIDE THE OUTER FLANGE WITH A GUSSET PLATE OUTSIDE THE OUTER FLANGE OR COLUMN CAP PLATE.

NAME	DESCRIPTION FOR A325 BOLT DIMENSIONS		A325 CONNECTION BOLT DIMENSIONS					
	D	HD	1/2"	3/4"	7/8"	1"	1 1/4"	1 1/2"
D	DIAMETER OF THE BOLT		1/2"	3/4"	7/8"	1"	1 1/4"	1 1/2"
HD	BOLT HOLE DIAMETER		9/16"	13/16"	15/16"	1 1/16"	1 5/16"	1 9/16"
G	BOLT GAUGE		2 1/2"	3"	4"	3 1/2"	4"	5 1/2"
G	MAX. WEB THICKNESS (Max. 3/4" Fillet Weld) WITHOUT WASHER		1"	1 1/8"	1 7/8"	1 1/4"	1 3/8"	2 1/8"
G	MAX. WEB THICKNESS (Max. 3/4" Fillet Weld) WITH WASHER		3/4"	7/8"	1 5/8"	7/8"	7/8"	1 7/8"
HG	HEAVY CONN. BOLT GAUGE		N/A	2 1/4"	2 5/8"	3"	3 3/4"	4"
S	NORMAL BOLT SPACING		2 1/2"	3"	3 1/4"	3 1/2"	4"	4 1/2"
BSMIN	MINIMUM SPACING BETWEEN TOP & BOTTOM SETS OF BOLTS		1 1/2"	2 1/4"	2 5/8"	3"	3 3/4"	4"
BSMAX	MAXIMUM BOLT SPACING BETWEEN TOP AND BOTTOM SETS OF BOLTS ON CONNECTION PLATES LESS THAN OR EQUAL TO 3/4" THICK		2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"
BSMAX	SPUCE BOLT SPACING (NOT TO EXCEED 2'-0")		(1/2 BSMAX (±1/8") WHEN BSMAX = 2'-0" TO 4'-0" < 1/3 BSMAX (±1/8") WHEN BSMAX = 4'-0" TO 6'-0" < 1/4 BSMAX (±1/8") WHEN BSMAX = 6'-0" TO 8'-0"					
BFGD	STANDARD BOLT-TO-FLANGE CLEARANCE DIMENSION (LARGER ON SLOPES 2:12 AND GREATER)		7/8"	1 1/8"	1 1/4"	1 3/8"	1 5/8"	1 7/8"
TT	THICKNESS TOP FLANGE		REFER TO FRAME PROFILE FOR LARGEST					
TB	THICKNESS BOTTOM FLANGE		FLANGE THICKNESS EITHER SIDE OF SPLICE					
YT	BOLT SPACING TOP (MIN = S)		1 3/4" + TT	2 1/4" + TT	2 1/2" + TT	2 3/4" + TT	3 1/4" + TT	3 3/4" + TT
YB	BOLT SPACING BOTTOM (MIN = S)		or TB Sloped	or TB Sloped	or TB Sloped	or TB Sloped	or TB Sloped	or TB Sloped
EED(S)	MINIMUM SHEARED END EDGE DIMENSION		1 1/4"	1 1/4"	1 1/2"	1 3/4"	2 1/4"	2 5/8"
EED(R)	MINIMUM ROLLED END EDGE DIMENSION		3/4"	1"	1 1/8"	1 1/4"	1 5/8"	2 1/4"
EEDK	END EDGE DIMENSION AT KNEE CONNECTION		1 3/8"	1 3/8"	1 5/8"	1 7/8"	2 3/8"	2 3/4"
BCWM	MIN. BOLT CLEARANCE FROM A FLANGE OR WEB WELD		7/16"	5/8"	3/4"	13/16"	1"	1 3/8"
BCWM	MIN. BOLT CLEARANCE FROM WITH HARDENED WASHER		3/4"	3/4"	7/8"	1"	1 1/4"	1 1/2"
WCSM	MIN. WIDTH OF CONN. PL. (Standard Connection)		5"	6"	8"	8"	10"	12"
WCHM	MIN. WIDTH OF CONN. PL. (Heavy Connection)		N/A	10"	12"	12"	16"	18"
TCHM	MINIMUM THICKNESS OF		1/4"	3/8"	7/16"	1/2"	5/8"	1"



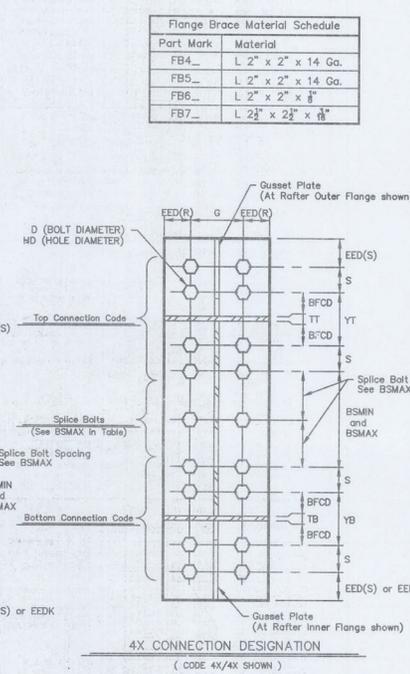
Frame Documentation
Connection Bolt Details (A325)

05-12-10
Mar '11 02

CROSS SECTION CONNECTION CODE KEY
(AS SHOWN AT CONNECTIONS ON FRAME CROSS SECTION DRAWINGS)

Flange Brace Material Schedule

Part Mark	Material
FB4_	L 2" x 2" x 14 Ga.
FB5_	L 2" x 2" x 14 Ga.
FB6_	L 2" x 2" x 14 Ga.
FB7_	L 2 1/2" x 2 1/2" x 8"



LEAN-TO BUTT PLATE LENGTH * CHART

BOLT SIZE	BOLT QTY	2	4	6	8
3/8" BOLT	6"	6"	7 1/2"	10"	
1/2" BOLT	6"	6"	9"	11'-0"	
5/8" BOLT	6"	6 1/2"	9 3/4"	11'-1"	
1" BOLT	6"	7"	10 1/2"	11'-2"	

* NOTE: BUTT PLATE LENGTH MUST BE A MINIMUM OF 1/2 THE RAFTER WEB DEPTH AND SHALL NOT EXCEED RAFTER TOTAL DEPTH.

05-12-10
Mar '11 02

Revision: A

Date: 02/24/14 FOR CONSTRUCTION PERMIT

Description: PERMIT

By: ANS

Check: ANS

Scale: NOT TO SCALE

Drawn by: AWS 2/24/14

Checked by: SF 2/24/14

Project Engineer: ANN

Job Number: 14-B-39239-1

Sheet Number: E11 of 12

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Solid seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

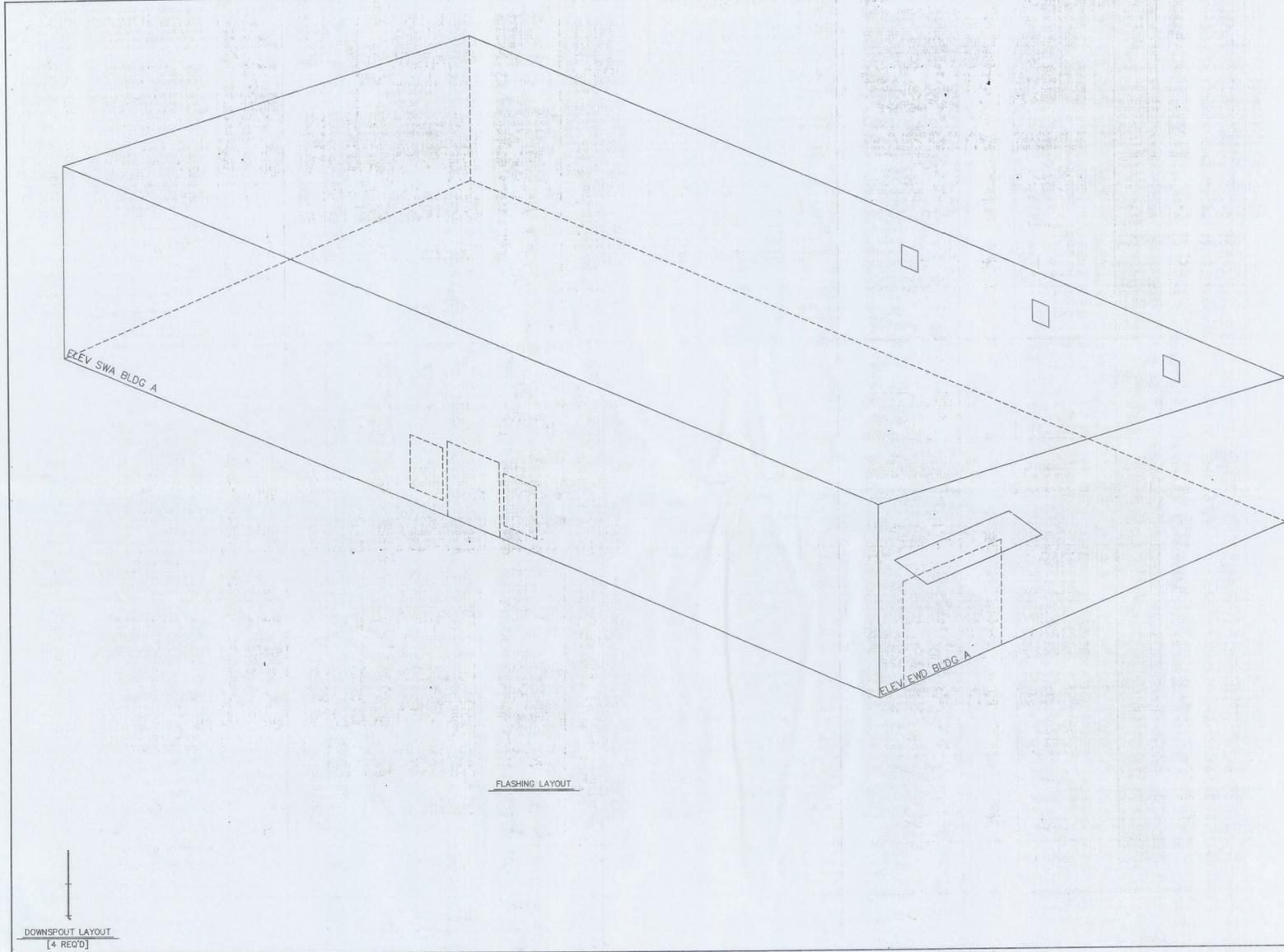
Franz Mutis, P.E.
Florida P.E. 68606

Customer: METALIC BUILDING COMPANY
1226 SW MAIN BLVD.
LAKE CITY, FL 32025
(407) 967-7788

Project Name & Location: MONSTA CLOTHING TRAVIS MIDDLEBUSH GROUP 7500 SW MAIN BLVD. LAKE CITY, FL 32025

Drawing Status: Preliminary For Construction Permit For Erector Installation

FRANZ MUTIS
No. 68606
STATE OF FLORIDA
PROFESSIONAL ENGINEER



FLASHING LAYOUT

↓
DOWNSPOUT LAYOUT
[4 REQ'D]

Revision	Date	Description	By	CK'd
A	02/24/14	FOR CONSTRUCTION PERMIT	AWS	SF

metallic building company
 2301 W. WINTER ST. • WINTER FLORIDA • P.O. BOX 4032
 32787
METALLIC (Florida Member & Licentiate)
 CUSTOMER: TRADEMARK DIST. GROUP
 734 W. WINTER ST. • WINTER FLORIDA • P.O. BOX 4032
 32787
 DRAWING STATUS: For Approval For Construction For Erector Installation

Scale: NOT TO SCALE
 Drawn by: AWS 2/24/14
 Checked by: SF 2/24/14
 Project Engineer: AXN
 Job Number: 14-B-39239-1
 Sheet Number: E12 of 12

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Franz Mutis, P.E.
 Florida P.E. 68606

Franz Mutis, P.E.
 No. 68606
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

AISC CODE OF STANDARD PRACTICE TOLERANCES FOR SETTING ANCHOR RODS

7.5.1. Anchor rods, foundation bolts and other embedded items shall be set by the owner's designated representative for construction in accordance with embedment drawings that have been approved by the owner's designated representative for design and construction. The variation in location of these items from the dimensions shown in the embedment drawings shall be as follows:

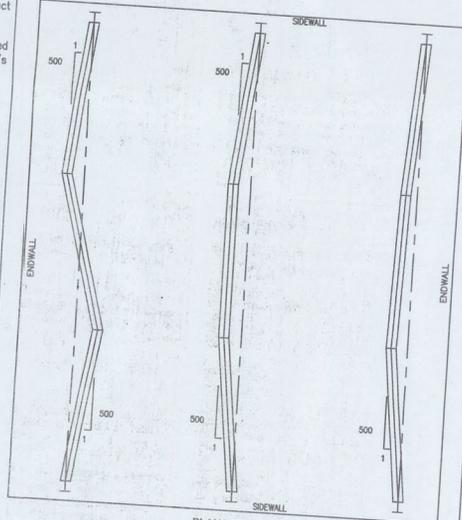
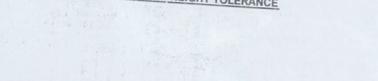
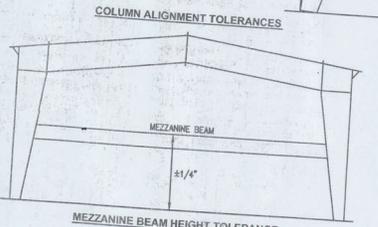
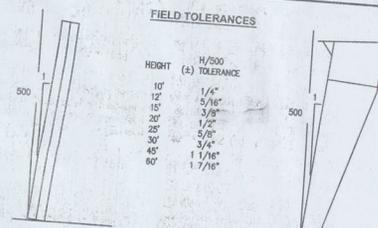
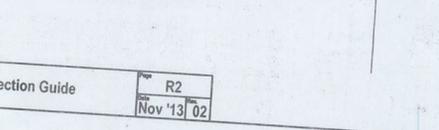
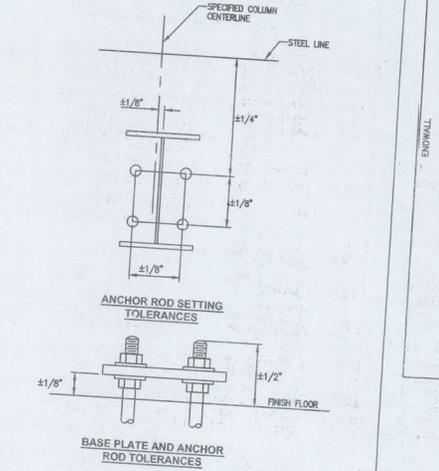
- (a) The variation in dimension between the centers of any two anchor rods within an anchor-rod group shall be equal to or less than 1/8 in. [3 mm].
- (b) The variation in dimension between the centers of adjacent anchor-rod groups shall be equal to or less than 1/4 in. [6 mm].
- (c) The variation in elevation of the tops of anchor rods shall be equal to or less than plus or minus 1/2 in. [13 mm].
- (d) The accumulated variation in dimension between centers of the anchor-rod groups along the column line through multiple anchor-rod groups shall be equal to or less than 1/4 in. per 100 ft [2 mm per 10000 mm], but not to exceed a total of 1 in. [25 mm].
- (e) The variation in dimension from center of any anchor-rod group to the column line through that group shall be equal to or less than 1/4 in. [6 mm].

The tolerances that are specified in (b), (c) and (d) shall apply to offset dimensions shown in the structural design drawings, measured parallel and perpendicular to the nearest column line, for individual columns that are shown in the structural design drawings as offset from column lines.

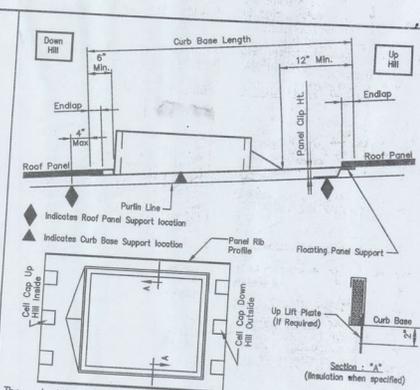
7.5.2. Unless otherwise specified in the contract documents, anchor rods shall be set with their longitudinal axis perpendicular to the theoretical bearing surface.

7.5.3. Embedded items and connection materials that are part of the work of other trades, but that will receive structural steel, shall be located and set by the owner's designated representative for construction in accordance with an approved embedment drawing. The variation in location of these items shall be limited to a magnitude that is consistent with the tolerances that are specified in Section 7.13 for the erection of the structural steel.

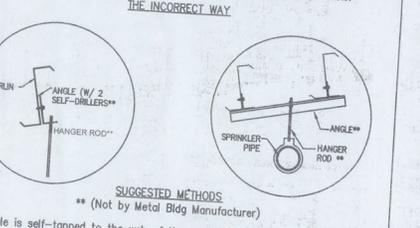
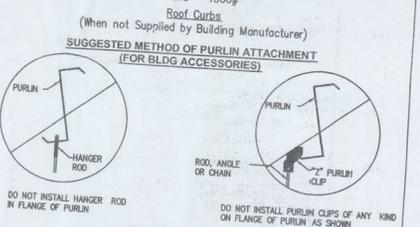
7.5.4. All work performed by the owner's designated representative for construction shall be completed so as not to delay or interfere with the work of the fabricator and the erector. The owner's designated representative for construction shall conduct a survey of the as-built locations of anchor rods, foundation bolts and other embedded items, and shall verify that all items covered in Section 7.5 meet the corresponding tolerances. When corrective action is necessary, the owner's designated representative for construction shall obtain the guidance and approval of the owner's designated representative for design.



ALIGNMENT TOLERANCE FOR MEMBERS WITH FIELD SPLICES



- The curb details shown illustrate the building manufacturer's recommended curb style and installation method. It is the erector / installer's responsibility to provide the proper curb style and install them in accordance with the procedures established by these details. Failure by the erector / installer to follow these recommendations may result in the curbs damaging the roof system or excluded from warranties.
- All roof curbs to be:
- 080 Aluminum or 18ga. Stainless (No Galvalume/No Galvanized)
 - Panel rib to rib installation (No flat skirt or lay-over curbs)
 - Installed over low end / under high end application for water flow at panel splice
 - Up lift prevention for clip applied roof systems are required if:
 - a. Wind load exceeds 110 mph or
 - b. Curb base crosses a purlin
 - Supported on (4) four side by primary or secondary framing 6. Max Single Curb weight Recommend = 1500#



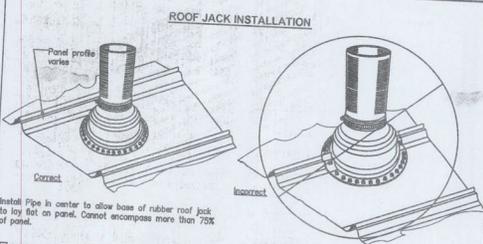
An angle is self-tapped to the web of the purlin to catch hanger rod. This method does not preclude other forms of attachment to the purlin web.

The total hanger load shall not exceed the design collateral load for the building. A sample calculation is shown below:

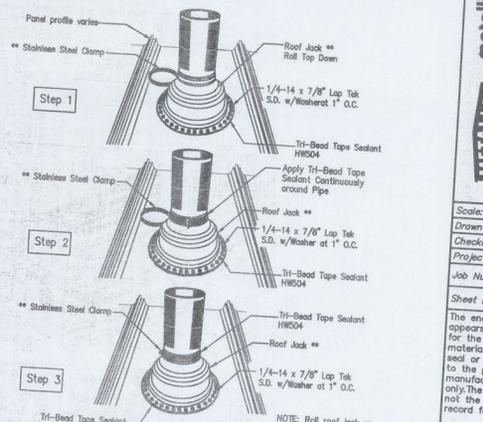
5' (purlin spacing) x 5' (hanger spacing) x 6 psi (collateral load) = 150 lbs.

See cover sheet for design collateral load for this building.

Note: If this building is designed for 0 psc collateral load, then adding any suspended system (i.e. duct work, piping, lights, ceilings, etc.) will correspondingly reduce the design live load.



- Install Pipe in center to allow base of rubber roof jack to lay flat on panel. Cannot encroach more than 75% of panel.
- Do not use galvanized roof jacks, lead hats or other residential grade roof jacks. These roof jacks do not have 20-year service life and, in the case of lead hats, will cause galvanic corrosion of the roof panels.
 - Use EPDM rubber roof jacks with an integral aluminum band bonded into the perimeter of rubber roof jacks. Retrofit rubber roof jacks are available for applications in which the top of the pipe is inaccessible, eliminating the possibility of sliding the roof jack over the top of the pipe.
 - Do not use tube caulk/silicone to seal roof jack to the roof panels. Use only tape sealant as supplied by Metal Bldg Manufacturer. Fasten the roof jack to the roof panels with 1/4"-14 x 7/8" Lap Tek S.D. Washers at 1" on center around base of roof jack.
 - Roll down the top of the roof jack and apply tape sealant continuously around the exposed portion of the pipe. Roll the top of the roof jack back over the tape sealant. Apply the stainless steel clamp over top of roof jack and firmly tighten to form a secure compression seal.
 - Do not install a pipe through the standing seam of the roof panel. Keep pipe penetration in center of panel to allow the base of the rubber roof jack to seal to the pan of the panel. If a pipe must be installed through a panel seam, or if the pipe diameter is so large to block the flow of water down the roof panel, you must install a "pipe curb" over the roof accessed, a two-piece pipe curb is available.
 - In Northern climates, protect all pipe penetrations from moving ice or snow with a snow retention system immediately up slope from the pipe.



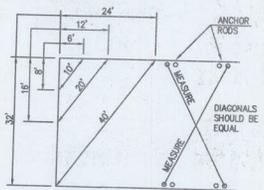
ROOF JACK INSTALLATION (Not by Metal Bldg Manufacturer) **

By	AMS	SF
Revision	02/24/14 FOR CONSTRUCTION PERMIT	
Date	02/24/14	
Revision	A	
metallic building company		
10000 W. 3035 P.A. BOX 4038 297706 Project location: MONSTA CLOTHING TRAVIS MENDRIS TRAVIS MENDRIS LAKE OTTIE FLD. LAKE OTTIE, FL 32025		
Scale: NOT TO SCALE Drawn by: AWS 2/24/14 Checked by: SF 2/24/14 Project Engineer: Job Number: 14-B-39239-1 Sheet Number: R2 of 15		
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer not the overall engineer of record for this project.		
For Construction Permit <input checked="" type="checkbox"/> <input type="checkbox"/> For Construction <input type="checkbox"/> For Erector Installation <input type="checkbox"/>		

PRE-ERECTION NOTES:

The following notes, procedures and suggested recommendations are important parts of the pre-erection process.

- 1) Prior to the time the erection crew arrives, a responsible person should check the job site for foundation readiness, square, and accuracy and Anchor Rod size and location. The drawing shown below indicates a method which may be used to check the foundation and bolts for square.



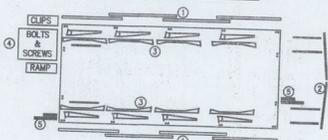
Measure along adjacent sides of foundation using a pair of dimensions shown. If the diagonal distance between these points is as noted, the corner is square. Diagonal measurements between opposite Anchor Rods will indicate if these bolts are set square.

- 2) When unloading the building, carefully check off each item from the packing list. Bundles and boxes will have a list attached indicating the contents.
- 3) Unload and layout the building columns on the foundation.
- 4) Unload the rafters onto the foundation so that they can be erected from whichever end of the building you wish to start. Your crane will move from one end of the building to the other while standing columns and hanging rafters.
- 5) Layout the girts and purlins on dunnage or wood blocking around the foundation as near as possible to where they will be installed.
- 6) Unload and place trim crates out of the way, since these will be the last required.
- 7) Unload and place panels and insulation out of the way.

NOTE: In extremely cold conditions, the vinyl facing on insulation will become brittle, requiring very careful handling.

- 8) Avoid lifting panel stacks with cables, chains or other devices which could damage the panels. Upon unloading, and every morning thereafter, inspect the panel bundles for moisture between the panels. This is especially important with galvalume or galvanized panels. The panel finish must be protected at all times before and during erection to preserve the appearance and function of the panels.
- 9) All hardware boxes should be protected from theft and moisture, especially items such as tube caulking and locksets. Store mastic away from heat.

LAYOUT OF BUILDING COMPONENT



1. Girts, Eave Struts and Purlins
2. End Frames and Endpost
3. Main Frames
4. Clips, Bolts, Screws, ETC.
5. Endwall Girts

- 1) Layout primary and secondary framing around the slab as shown.
- 2) Place components and crates on the slab or on wood blocking to prevent contact with the ground.
- 3) Block one end of components higher than other end to allow drainage of rain water.
- 4) Leave one end of the building open for erection equipment access.
- 5) Construct temporary ramp of timbers from grade to slab to prevent damage to concrete edge from equipment traffic.
- 6) Install clips and flange braces onto columns and rafters before these members are in the air. Clip and flange brace locations are shown on erection drawings.

GENERAL ERECTION NOTES

- 1.) All clips, flange braces, bolts, bracing systems, ETC. must be installed as shown on erection drawings.
- 2.) It is extremely important, especially during construction, that panels at the eaves, rakes and ridges be kept secure.
- 3.) Column bases must not be lag screwed or "RED HEADED" to concrete unless specified on erection drawings for the building.
- 4.) Tighten column wind brace rods/cables (exterior and interior) before tightening roof rods/cables. Roof rods/cables are tightened from eave to peak. 5.) High strength bolts (A325) must be used where specified.

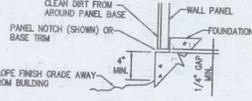
TEMPORARY CONSTRUCTION BRACING

- 1.) It is the responsibility of the erector to maintain stability of the structure during all stages of erection, particularly when left overnight.
- 2.) Temporary supports, such as temporary guys, braces or other elements shall be the total and complete responsibility of the erector. The temporary supports required shall be determined and furnished by the erector.
- 3.) Temporary construction supports shall be provided wherever necessary to accommodate all construction loads to which the structure may be subjected, left in place as long as may be required for safety.

PANEL CAUTIONS AND NOTES

To minimize potential of corrosive action at the bottom edge of wall panels, the contractor must assure that the following procedures are followed:

- 1.) The concrete foundation should be cured for a minimum of seven (7) days before wall panels are installed. (un-cured concrete is highly alkaline and metal panels can undergo varying degrees of corrosive attack when in direct contact with the concrete.) After the first week of the curing cycle, the reaction between metallic coatings on steel and the concrete is essentially halted.



- 2.) Top of finish grade at building to be a minimum of four (4) inches below bottom of panel.
- 3.) Finish grade is to slope away from building to insure proper drainage.
- 4.) Upon completion of finish grading, all dirt is to be cleaned from around base of wall panel where it may have collected in panel notch or on base trim.

FASTENER INSTALLATION

Correct fastener installation is one of the most critical steps when installing roof/wall panels. Drive the fastener in until it is tight and the washer is firmly seated. Do not overdrive fasteners. A slight extrusion of neoprene around the washer is a good visual tightness check. Always use the proper tool to install fasteners. A fastener driver (screw gun) with a RPM of 1700-2000 should be used for self-drilling screws. A 500-600 RPM fastener driver should be used for self-tapping screws. Discard worn sockets, these can cause the fastener to wobble during installation.



NOTE: Always remove metal filings from surface of panels at the end of each work period. Rusting filings can destroy the paint finish and void any warranty.

MASTIC SEALANT

Proper mastic application is critical to the weather tightness of a building. Mastic should not be stretched when installed. Apply only to clean, dry surfaces. Keep only enough mastic on the roof that can be installed in a day. During warm weather, store mastic in a cool dry place. During cold weather (below 60°) mastic must be kept warm (60°-90°) until application. After mastic has been applied, keep protective paper in place until panel is ready to be installed.

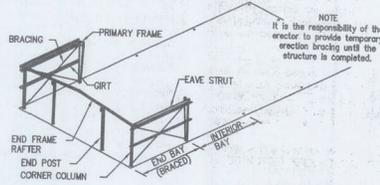
IMPORTANT NOTE:

All details, recommendations and suggestions contained in the ERECTION GUIDE portion of this drawings set are for general guidelines only, and not meant to be all-inclusive. Industry accepted installation practices with regard to all areas not specifically discussed in this section should be followed. Only experienced, knowledgeable installers familiar with accepted practices should be used to assure a quality project.

It is emphasized that the Manufacturer is only a manufacturer of metal building components and is not engaged in the installation of its products. Opinions expressed by the Manufacturer about installation practices noted in the ERECTION GUIDE are intended to represent only a guide as to the sequencing and how the components could be assembled to create a building. Both the quality and safety of installation the experience, expertise, and skills of the installation crew, as well as the equipment available for handling the materials. Actual installation operations, techniques and site conditions are beyond the Manufacturer's control.

GENERAL ERECTION NOTES

STEP 1: ERECT FIRST BAY WALL FRAMING



- 1A: Determine from erection drawings furnished with the building the location of the first braced bay. Framing for this bay will be erected first.
- 1B: Stand adjacent primary frame column and corner column over the anchor rods. Shim or chip out under the base plate if required to ensure that the base is level, at the correct elevation, and is in full contact with the foundation. Plumb and align the columns and install washers and nuts onto the Anchor Rods. The end frame may be a bearing frame with the rafter supported by end

NOTE: posts, or a rigid frame with the rafter self-supporting, and not attached to the end posts. The procedure shown is for a bearing frame. If the building has a rigid end frame, it is erected the same as interior frames as described in steps 1 and 2.

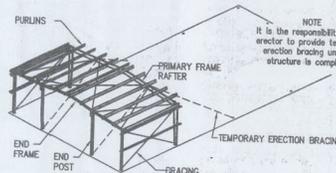
- 1C: Attach wall girts to the primary frame column and corner column. Bolt girts to the corner column with two bolts. Bolt girt to primary frame column with one bolt through the column flange and secure bolt with sub-nut (see detail on erection drawings).
- 1D: Install the eave strut by bolting to the top of the columns. Refer to the erection drawings and attach column flange brace where shown. Flange braces may be required on one or both sides of the columns. If a flange brace connects to a girt in the adjacent bay girts are installed. As wall girts are installed around the building, framing for factory located

NOTE: framed openings and accessory framing to which the girts attach should be installed. Field located accessory framing may be installed at the same time as girts or at a later time.

- 1E: Install wall bracing systems (rods, cables, knee bracing, portal bracing) at this time but do not tighten completely until the bay is plumbed.
- 1F: Repeat steps 1B thru 1E for wall framing on the opposite side of the building.

- 1G: Attach clips to the end posts and stand these posts over the Anchor Rods. Follow the procedure as described for corner columns in step 1B.
- 1H: Bolt required clips and flange braces to the end frame rafter sections and lift into place atop the end posts. Bolt rafter sections to corner column and end post cap plates. Bolt rafter sections together at peak.

STEP 2: ERECT FIRST BAY ROOF FRAMING



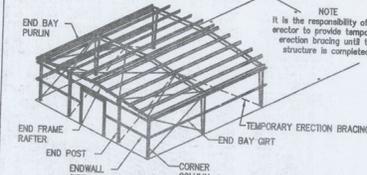
CAUTION

Until rafters are bolted in place with purlins and flange braces installed, they are easily damaged by incorrect or careless handling procedures. Use extreme caution when lifting rafters. Two booms should be used to lift any pinched rafter section 80 feet or more in length.

- 2A: Bolt primary frame rafter together at peak connection (unless rafter length requires lifting in sections). Attach the required clips and flange braces to the rafter before lifting sidewall columns and install bolts in rafter to column knee connections.
- 2B: Install end bay purlins from end frame rafter to the first interior frame rafter. The end bay purlins will overlap the interior bay purlins at the frame as described in step 1C. Complete flange brace connection to purlins.
- 2C: Install roof bracing systems but do not tighten completely until the bay is plumbed.
- 2D: Plumb and square the first bay. After alignment, tighten wall bracing first and the roof bracing working from eave to peak. Tighten any remaining bolts.

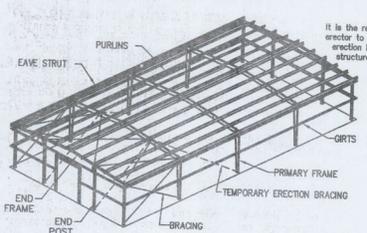
Plumbing and aligning a total structural system begins with the first braced bay and continues through completion. Accurate alignment of the first bay is essential for correct alignment of succeeding bays. The installer is responsible for choosing the best method suited for plumbing and aligning the structural system.

STEP 3: ERECT ENDWALL GIRTS AND FIRST INTERIOR BAY



- 3A: After end frame is plumbed and square, install endwall girts and flange braces for end post if required.
- 3B: Attach wall girts to the primary frame columns (see step 1C).
- 3C: Install eave struts (see step 1D).
- 3D: Attach roof purlins for this bay to the two rafters. Purlins will bolt to the rafter flange in the same manner as girts to column flanges (see step 1C). Connect flange braces to purlins.
- 3E: Check alignment, plumb and square the two bays just erected. Tighten all bolts and bracing.

STEP 4: ERECT REMAINING STRUCTURAL FRAMING

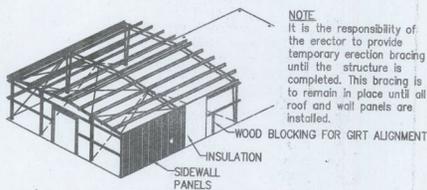


Starting at the opposite end of the first bay erected, install the remaining interior frames, girts, purlins, eave struts, bracing, end frames and end posts using the procedures described in the preceding steps. Be sure all wall girts, roof purlins and flange braces as shown on the erection drawings are installed. Constant checks should be made to ensure the building is square, plumb and aligned.

All X-Bracing should be checked that it is installed to a taut condition with all slack removed. Do not tighten beyond this state.

Drawn by:	AMS	2/24/14
Checked by:	SP	2/24/14
Project Engineer:		
Job Number:	14-B-39239-1	
Sheet Number:	R3 of 15	
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Seal used or certification is limited to the products designed and manufactured by manufacturer, only the undersigned engineer is not the overall engineer of record for this project.		

STEP 5: INSTALL SIDEWALL PANELS

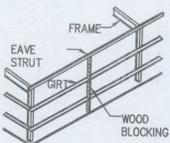


NOTE: It is the responsibility of the erector to provide temporary erection bracing until the structure is completed. This bracing is to remain in place until all roof and wall panels are installed.

5A: Before installing wall panels, the girts must be aligned to a level position so that there is no visible sag. This should be done directly ahead of panel installation.

Girt leveling may be accomplished by standing a section of gable angle vertically against the outside girt flanges at approximate mid-bay location. When girts are level, attach the girt flanges to the angle with vise grip pliers or temporary screws. Wood blocking cut to fit the spaces may also be used for alignment.

NOTE: Temporary girt blocking is not recommended on concealed fastener panels. The removal of the blocks after panel installation can cause oil conning.

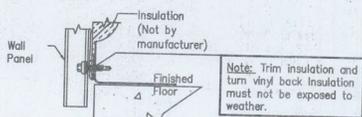


NOTE: Wall panel type and installation details will vary. Refer to the erection drawings and details for the specific panel used for your building.



5B: If walls are to be insulated, place a continuous run of contact tape along the eave strut and base member.

NOTE: At the base, cut off the insulation a minimum of 1/2" above the bottom of the wall panel. This will prevent the insulation from hanging below the wall panel and wicking moisture.



NOTE: Trim insulation and turn vinyl back insulation must not be exposed to weather.

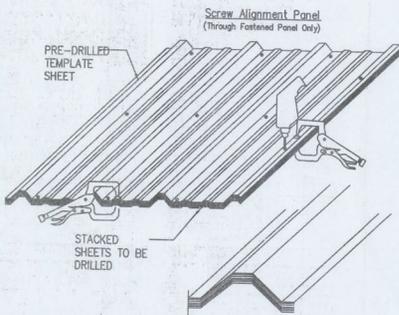
Starting at a building corner, attach the first piece of blanket insulation to the contact tape on the eave strut. Pull tight and adhere to tape at the base. It is recommended that insulation not be installed more than 6 feet ahead of panels.

5C: Sidewall panels should be installed so that the panel sidelap is in a direction away from the prevailing wind. (refer to appropriate lap detail included with erection drawings.)

5D: Install remaining sidewall insulation and panels, being careful to maintain correct panel coverage. It is suggested that the foundation be marked in increments of panel width to allow visual checking of panel coverage as installation progresses.

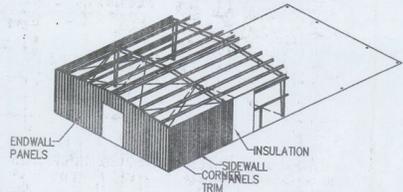
NOTE: Check periodically to ensure that all panels are aligned and plumb.

5E: At the finishing corner of a sidewall, the last panel may require additional lap or trimming for installation of corner trim refer to the details in the erection drawings.



NOTE: After drilling panels, it is important to clean metal filings off all panel surfaces, including between panels that are not installed that day, to avoid rust stains.

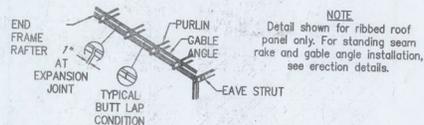
STEP 6: INSTALL ENDWALL PANELS



6A: Install gable angles/supports onto the ends of purlins and eave struts. This angle is to butt-up to each other or is spliced as required except at expansion joints where a one inch gap is maintained between ends of adjacent sections to allow for expansion.

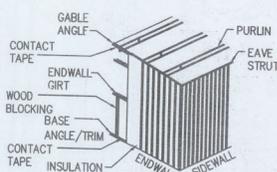
Gable angle splices may occur on or between purlins and the angle must be attached to each purlin and the eave strut.

NOTE: Wall panel type and installation details will vary. Refer to the erection drawings and details for the specific panel used for your building.



NOTE: Detail shown for ribbed roof panel only. For standing seam rake and gable angle installation, see erection details.

6B: See erection drawings sheeting layouts for panel starting dimensions, panel trim locations, and lap locations.



6C: Align and level girts on endwall.

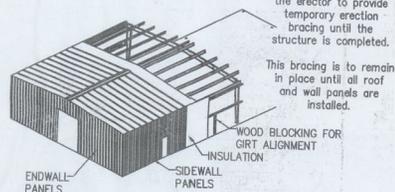
6D: If the walls are to be insulated, place a continuous run of contact tape along the gable angle and base member. Starting at the corner of the endwall, attach the first piece of insulation to the contact tape on the gable angle, pull tight and adhere to tape at the base. Cut off excess insulation. It is recommended that insulation not be installed more than 6 feet ahead of panels.

NOTE: At the base cut off the insulation a minimum of 1/2 inch above the bottom of the wall panel. This will prevent the insulation from hanging below the wall panel and wicking moisture.

6E: Start at the corner, trim panel (if required) and set in place. Refer to corner details in the erection drawings for the panel starting distance from the corner. When the panel is located and plumb, install fasteners. 6F: Install remaining endwall insulation and panels, being careful to maintain the correct panel coverage as suggested in step 5D.

6G: Install corner trim.

STEP 7: INSTALL ROOF PANELS



NOTE: It is the responsibility of the erector to provide temporary erection bracing until the structure is completed. This bracing is to remain in place until all roof and wall panels are installed.

7A: Install eave trim over top of sidewall panels and eave struts with fasteners per erection drawings eave detail.

7B: If the roof is insulated, place a continuous run of contact tape along top of eave struts at both sidewalls. Lay a starter roll of blanket insulation from eave to eave across roof and secure to contact tape. (refer to packing list for width of insulation starter roll). It is recommended that insulation be installed no more than 6 feet ahead of panels.

7C: Install the first run of roof panels across the building from eave to eave or ridge. To allow proper installation of rake trim, the starting location for the first panel must be as shown in rake details included with the erection drawings. When the first run is properly located and aligned with the correct endgaps and eave overhang, fasten to purlins. Roof panels should be installed so that the sidelap is in a direction away from the prevailing wind. Refer to appropriate lap detail.

7D: Install remaining roof insulation and panels. To avoid accumulative error due to panel coverage gain or loss, properly align each panel before it is fastened. Occasional checks should be made to ensure that correct panel coverage is maintained. Special attention should be given to fastener, mastic and closure requirements. Refer to details with erection drawings.

7E: At finishing end of roof, the last panels may require field modification for installation of rake trim. Refer to rake details. DO NOT BACK LAP THROUGH FASTENED ROOF SHEETS.

NOTE: Roof panel types and installation requirements will vary. Refer to the appropriate details for the specific panel used.

IMPORTANT: Loose fasteners, blind rivets, drill shaving, ETC... must be removed from roof to guard against corrosion.

NEVER STEP ON LIGHT TRANSMITTING PANELS, TRANSLUCENT PANELS, OR UNATTENDED ROOF PANELS.



Panels May Collapse If Not Properly Secured!

Roof panels must be completely attached to the purlins and to panels on either side before they can be a safe walking surface. Light transmitting panels or translucent panels can never be considered as a walking surface.

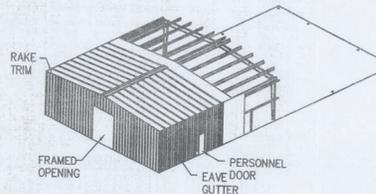
Partially attached or unattached panels should never be walked on!

Do Not:

1. Step on rib at edge of panel.
2. Step near crease in rib at edge of panel.
3. Step within 5 feet of edge on unsecured panel.

A single roof panel must never be used as a work platform. An OSHA approved runway should be used for work platforms (Consult OSHA Safety and Health Regulations for the Construction Industry). Safety First!

STEP 8: INSTALL TRIM AND ACCESSORIES



8A: Install rake trim and gable closure.

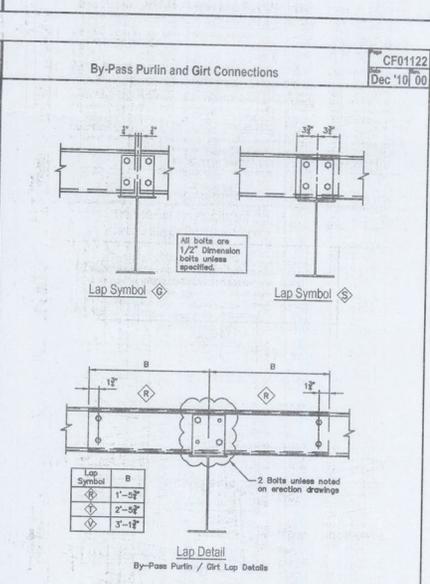
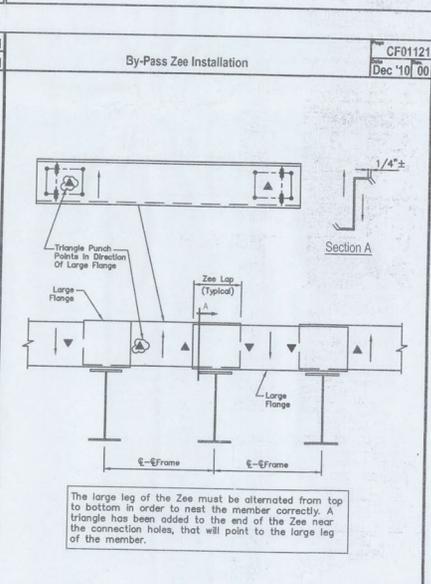
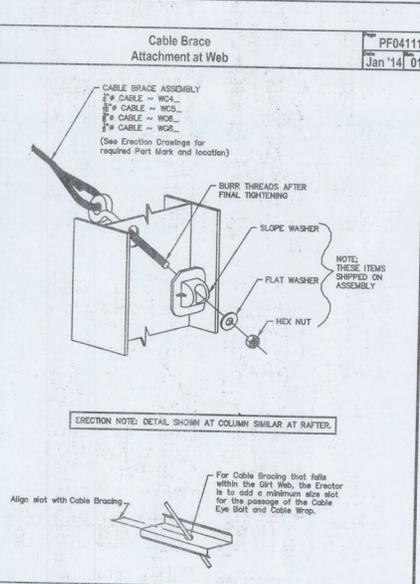
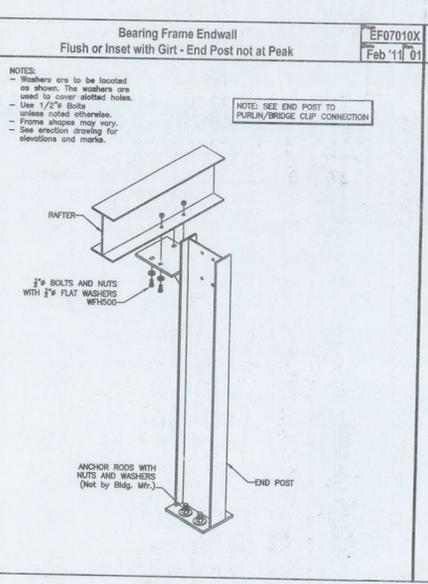
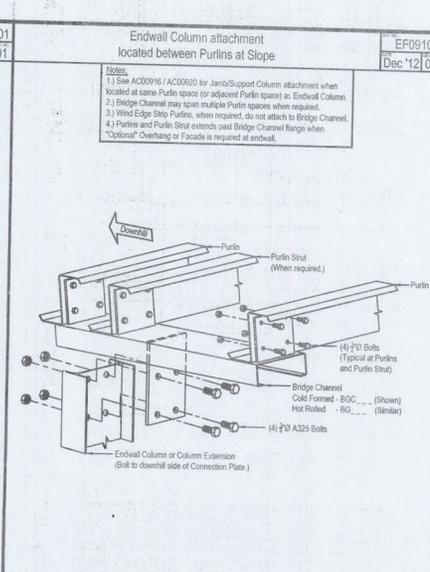
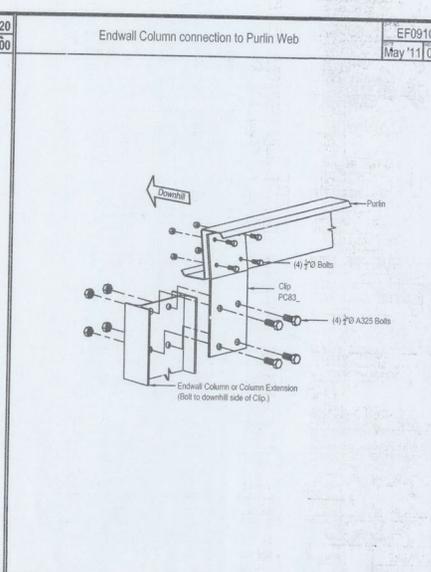
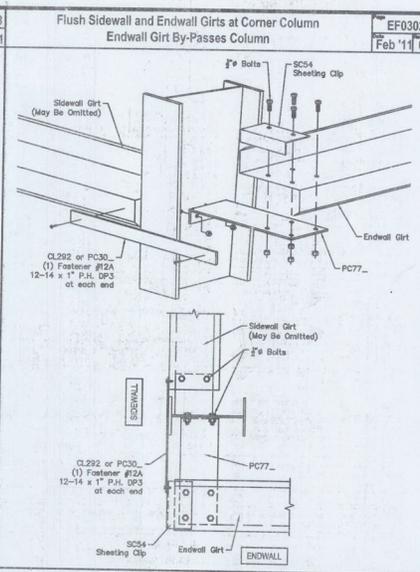
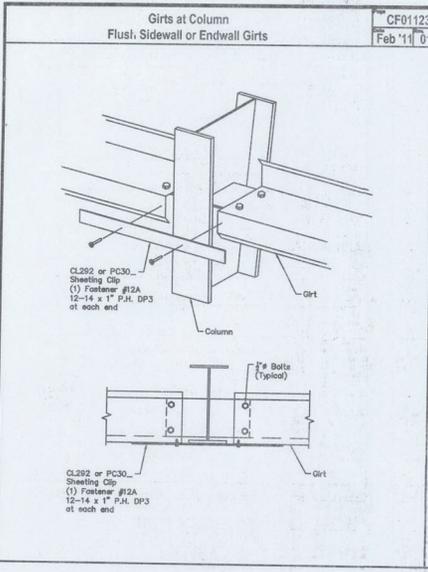
8B: If included with the building, install the eave gutter, corner closures and downspouts.

NOTE: Remove all loose fasteners, blind rivets, drill shavings, etc... from gutter to guard against corrosion.

8C: Install accessories (doors, windows, louvers, etc...) not previously installed. Refer to the appropriate details for installation instructions.

IMPORTANT: Remove debris from roof and wall surfaces during installation and after. Clean surface of sheeting as required to remove smudges and touch-up any minor/mild scratches with manufacturer color match touch-up paint if purchased.

By	Chk'd								
AWS	SF								
Description		FOR CONSTRUCTION PERMIT							
Date	Revision								
02/24/14	A								
<p>metallic building company 230 HARVEY • HOUSTON, TEXAS P.O. BOX 40328 (713) 469-7788 • FAX 713 469-7790</p> <p>Project Name & Location: MONSIEUR MANSION TRAVIS MANSIONS 17000 MAIN BLDG. LAKE CHARLES, LA 70605</p> <p>Customer: TRADEMARK CONST. GROUP TRAVIS MANSIONS 17000 MAIN BLDG. LAKE CHARLES, LA 70605</p> <p>Drawing Status: <input type="checkbox"/> Preliminary <input checked="" type="checkbox"/> For Construction <input type="checkbox"/> For Erector Installation</p>									
Scale: NOT TO SCALE									
Drawn by: AWS 2/24/14									
Checked by: SF 2/24/14									
Project Engineer:									
Job Number: 14-B-39239-1									
Sheet Number: R4 of 15									
The engineer whose seal appears hereon is an employee of the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.									



Revision	Date	Description	By	Chk'd
A	02/24/14	FOR CONSTRUCTION PERMIT	AWS	SF

metallic building company
200 EMMETT • IRVING, TEXAS • P.O. BOX 40338
(972) 968-7788 • FAX 972-968-7780

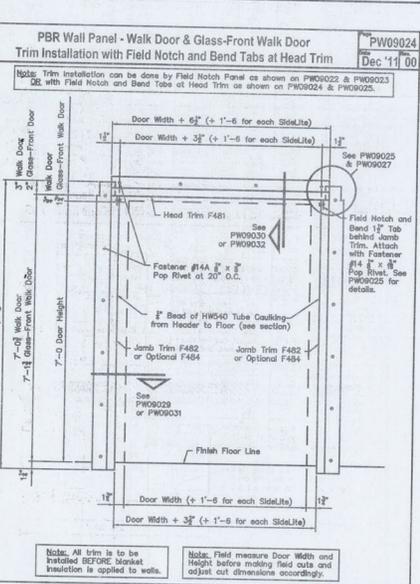
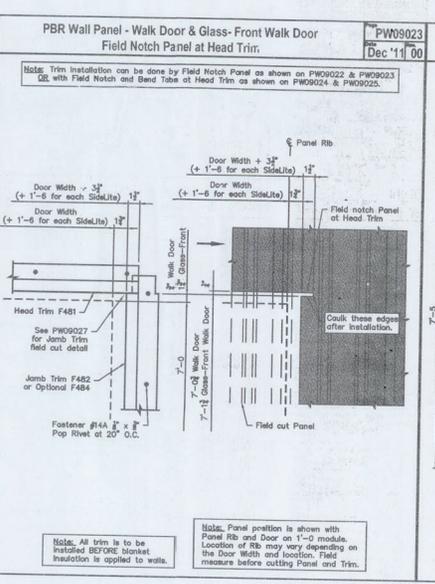
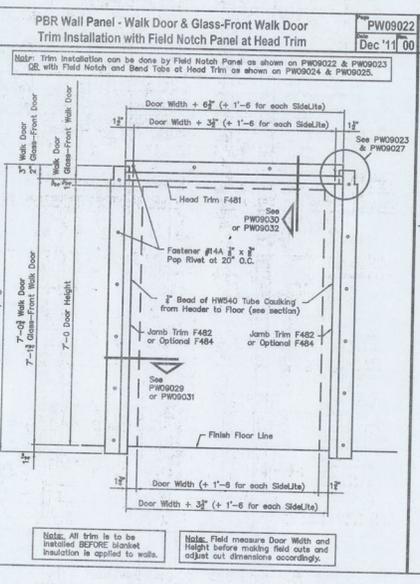
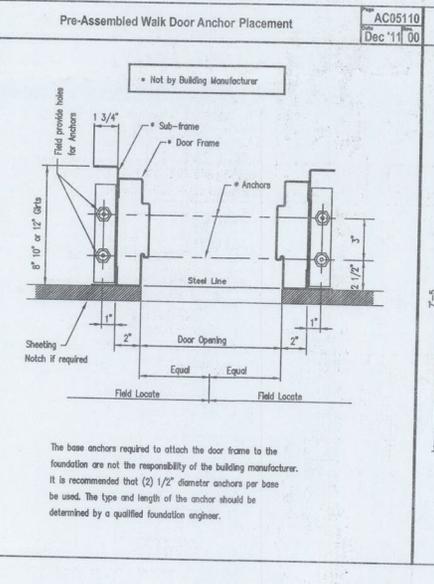
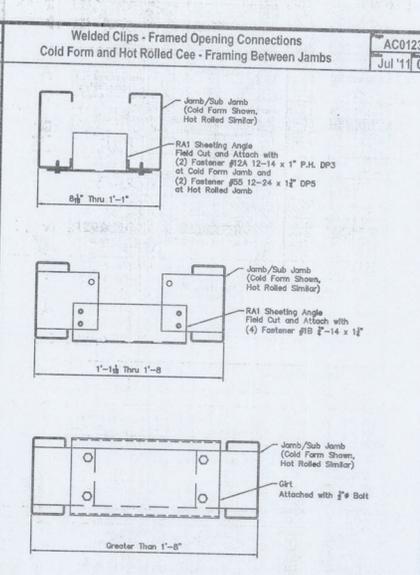
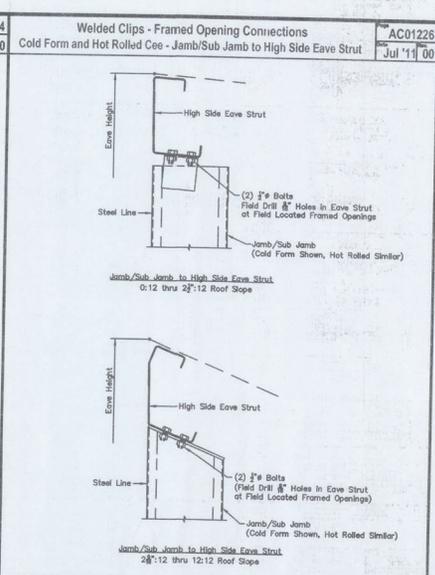
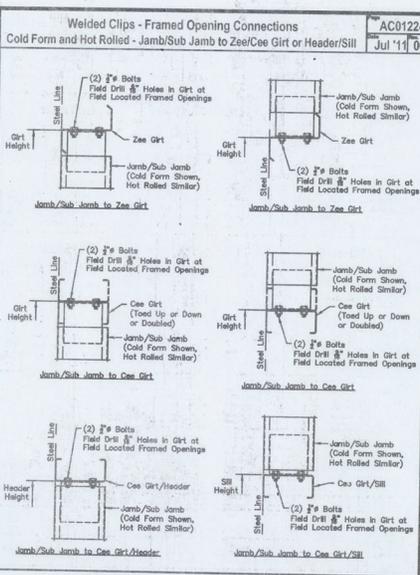
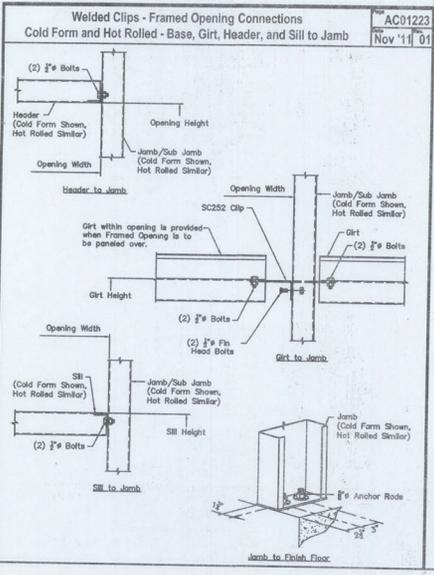
Customer: TRADEMARK CONST. GROUP
TRAVERS MEDICINES
1750 A SW MAIN BLVD.
LAKE CITY, TN 37025

Project Name & Location:
TRAVERS MEDICINES
1750 A SW MAIN BLVD.
LAKE CITY, TN 37025

Drawing Status: For Construction For Erector Installation

Scale: NOT TO SCALE
Drawn by: AWS 2/24/14
Checked by: SF 2/24/14
Project Engineer:
Job Number: 14-B-39239-1
Sheet Number: R5 of 15

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.



Revision	Date	Description	By	CHK
A	02/24/14	FOR CONSTRUCTION PERMIT	AWS	SF

metallic building company
200 HARVEY • HOUSTON, TEXAS P.O. BOX 40328
HOUSTON, TEXAS 77240
(713) 965-7788

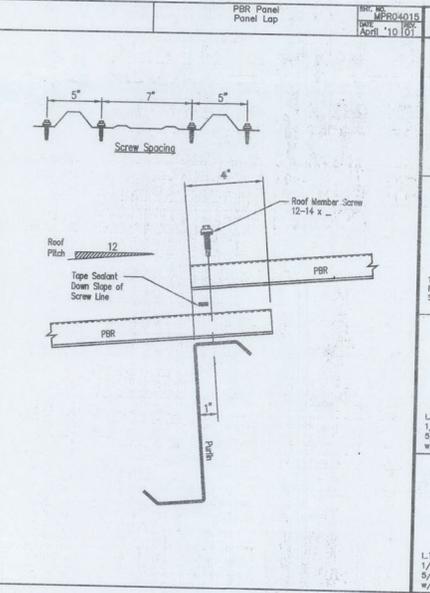
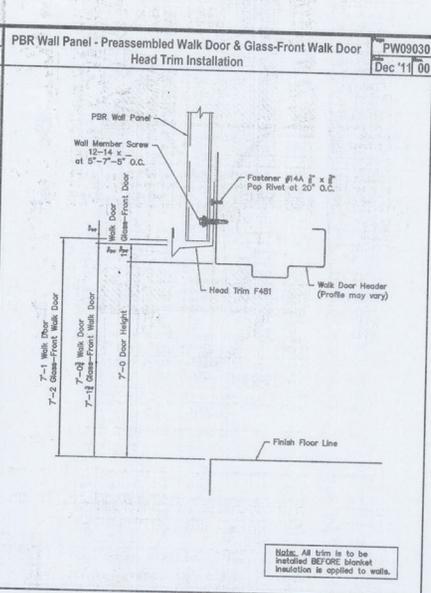
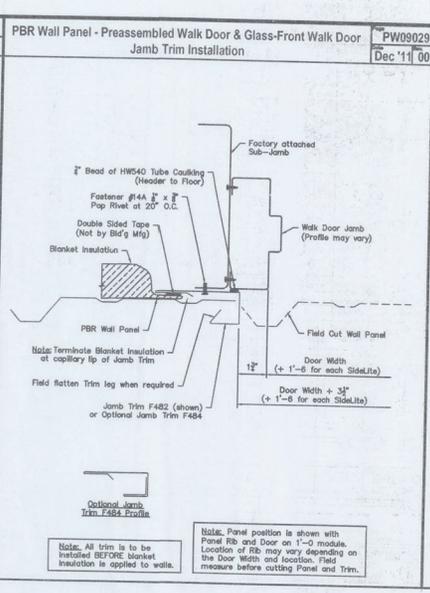
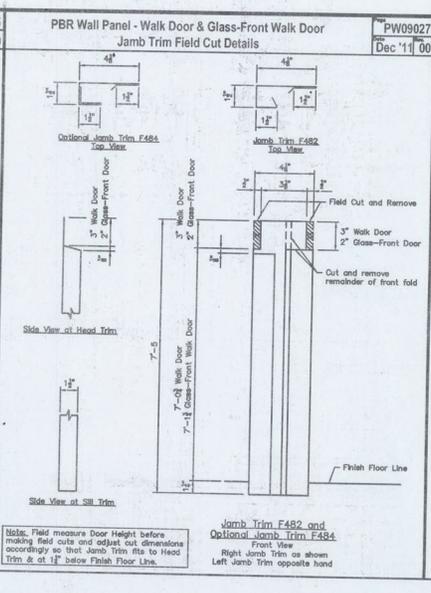
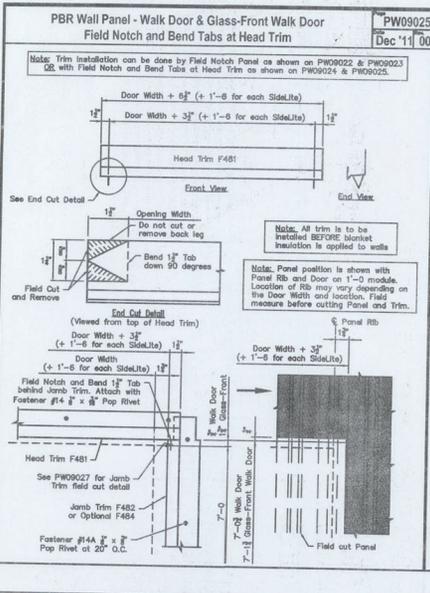
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TRAVIS MEDEROS
TRAVIS MEDEROS
LAKE CITY FL 32025

Customer:
TRAVIS MEDEROS
TRAVIS MEDEROS
LAKE CITY FL 32025

Drawing Status:
 For Construction
 For Construction Detail
 For Erector Installation

Scale: NOT TO SCALE
Drawn by: AWS 2/24/14
Checked by: SF 2/24/14
Project Engineer:
Job Number: 14-B-39239-1
Sheet Number: R7 of 15

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Seal used or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.



Fasteners
PW09004
Dec '11 00

FASTENER #221	FASTENER #24	FASTENER #228
8-18 x 1/2" Trim Screw	8 x 5/8" Nibbed Drill	10 x 1/2" Grommet Washer
FASTENER #14	FASTENER #14A	FASTENER #226
1/8" x 3/16" Pop Rivet Stainless Steel	1/8" x 3/8" Pop Rivet Stainless Steel	3/16" x 9/16" Closed End Rivet
FASTENER #43	FASTENER #43L	FASTENER #1W399
L.T.P. Member Screw 1/4"-14 x 1 1/4" 5/16" Hex Washer Head w/ 1 1/8" O.D. Washer	L.T.P. Member Screw (Long Life) 1/4"-14 x 1 1/4" 5/16" Hex Washer Head w/ 1 1/8" O.D. Washer	#6 x 1" Rubber Grommet 1/4" Hex Washer w/ Washer
FASTENER #44	FASTENER #44L	FASTENER #35
L.T.P. Slitch Screw 1/4"-14 x 7/8" 5/16" Hex Washer Head w/ 1 1/8" O.D. Washer	L.T.P. Slitch Screw (Long Life) 1/4"-14 x 7/8" 5/16" Hex Washer Head w/ 1 1/8" O.D. Washer	#14 x 1 1/8" O.D. Bonded Washer

PBR, PBU, AVP, PBA, VistaShadow Panel Fasteners
G000006
Jul '13 03

Wall Fasteners	Roof Fasteners (Long Life (Optional at Wall))	Optional Roof or Wall Fasteners (Stainless Steel Cap)
Member Screw Fastener #17A 12-14 x 1/2" 5/8" Hex Washer Head w/washer	Member Screw Fastener #3 12-14 x 1/2" 5/8" Hex Washer Head w/washer	Member Screw Fastener #3SS 12-14 x 1/2" 5/8" Hex Washer Head w/washer
Member Screw Optional Fastener #17B 12-14 x 1/2" 5/8" Hex Washer Head w/washer	Member Screw Optional Fastener #3A 12-14 x 1/2" 5/8" Hex Washer Head w/washer	Member Screw Optional Fastener #3ASS 12-14 x 1/2" 5/8" Hex Washer Head w/washer
Slitch Screw Fastener #4A 1-14 x 1/2" 5/8" Hex Washer Head w/washer	Member Screw Optional Fastener #6B 12-14 x 2" 5/8" Hex Washer Head w/washer	Member Screw Optional Fastener #27/25S 2-14 x 2" 5/8" Hex Washer Head w/washer
Slitch Screw Fastener #4 1-14 x 1/2" 5/8" Hex Washer Head w/washer	Slitch Screw Fastener #4SS 1-14 x 1/2" 5/8" Hex Washer Head w/washer	

Various Fasteners
G000009
Jul '13 05

Revision	Date	Description
A	02/24/14	FOR CONSTRUCTION PERMIT

By: AWS SF

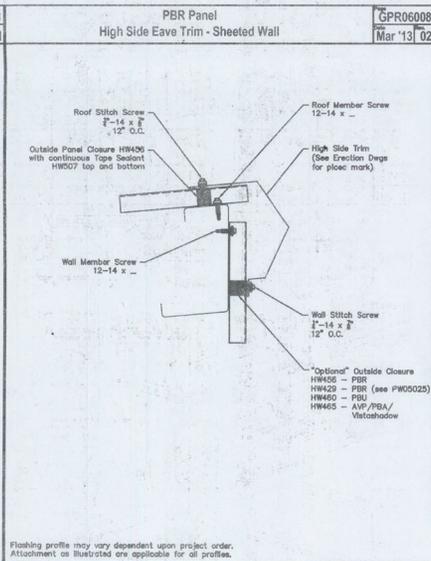
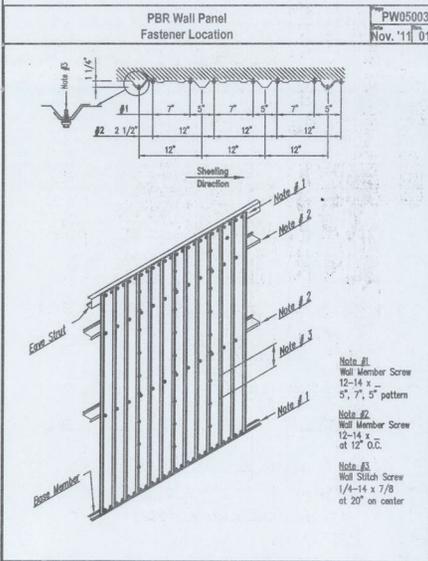
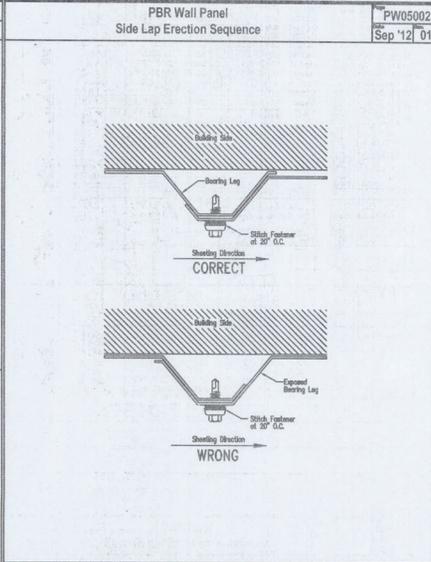
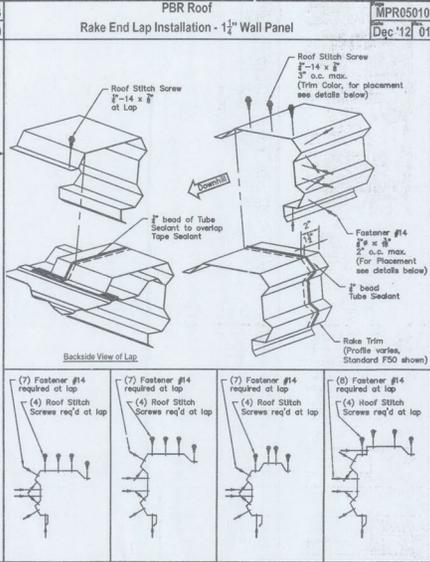
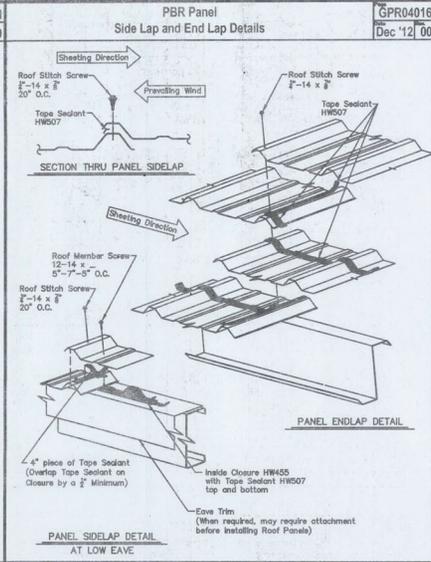
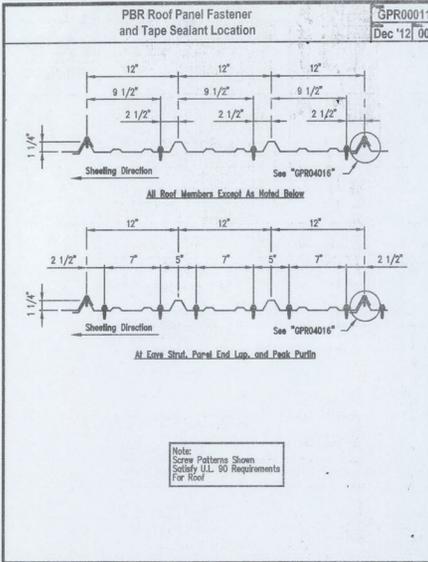
metallic building company
200 ENERGY CENTER, SUITE 200, A.S.A. BOX 4038
BIRMINGHAM, AL 35202
(205) 988-7788
FAX 205 988-7780

Project Name & Location:
TRAVIS MEDERIOS TRAVIS MEDERIOS TRAVIS MEDERIOS
750 A SW MAIN BLVD.
LAKE CITY, FL 32025

Scale: NOT TO SCALE
Drawn by: AWS 2/24/14
Checked by: SF 2/24/14
Project Engineer:
Job Number: 14-0-39239-1
Sheet Number: RB of 15

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Solid seal or certification is limited to the products designed and manufactured by manufacturer and manufacturer is only the undersigned engineer is record for this project.

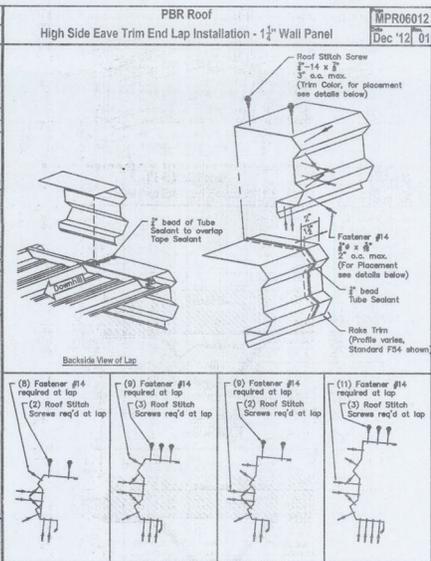
For Construction Permit
 For Construction
 For Erector Installation



PBR Roof Perimeter Trim Reference - Standard Large Trim

MPR00002
Jan '14 '02

GUTTER	GUTTER LAP	GUTTER CAP	EXPANSION COVER	GUTTER CLIP
Roof Stitch Screw 12" O.C. Roof Color	2" LAP			
RAKE	RAKE LAP	RAKE CAP	CORNER BOX	GALE CLOSURE
Roof Stitch Screw 12" O.C. Wall Stitch Screw 12" O.C. Trim Color	2" LAP			
HEMLOCK	HEMLOCK LAP	OUTSIDE CORNER	INSIDE CORNER	
Roof Stitch Screw 12" O.C. Wall Stitch Screw 12" O.C. Trim Color	2" LAP	Right as Shown	Field Work	
OUTSIDE CORNER	INSIDE CORNER	OUTSIDE CORNER	INSIDE CORNER	
Right as Shown	Field Work	Field Work	Field Work	



metallic building company
2900 W. US Highway 90, P.O. Box 1000
Lakeland, FL 33802

METALLIC

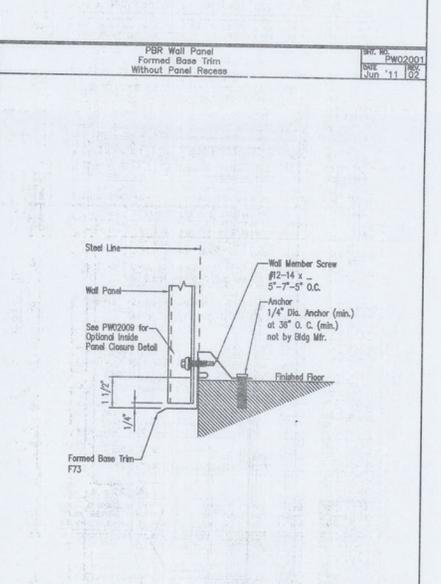
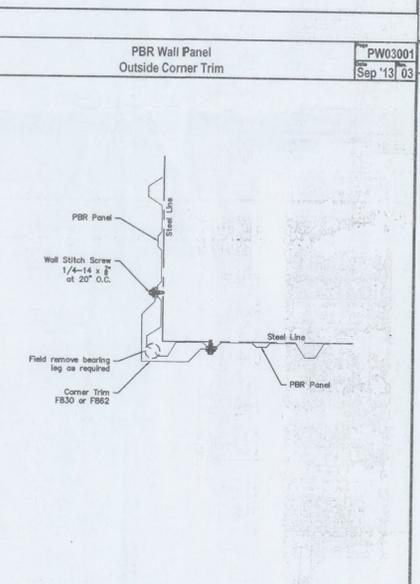
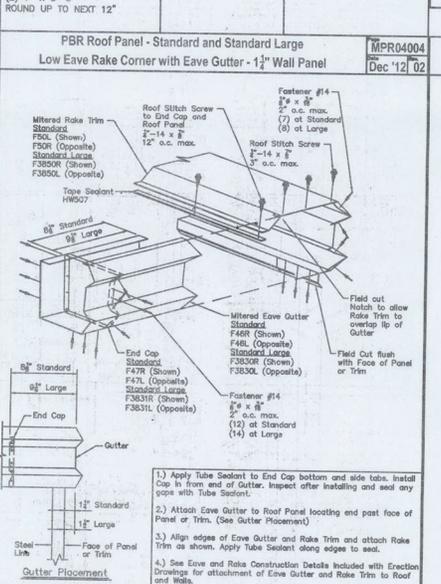
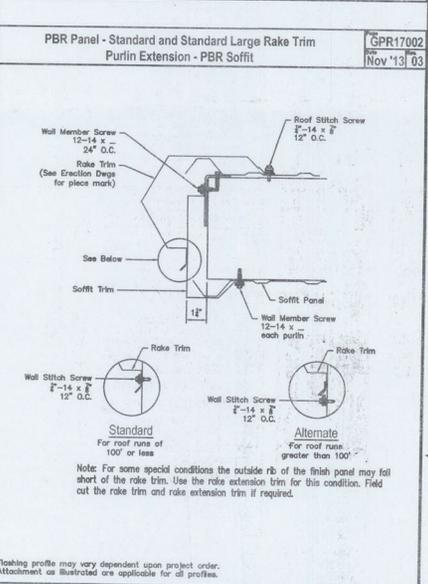
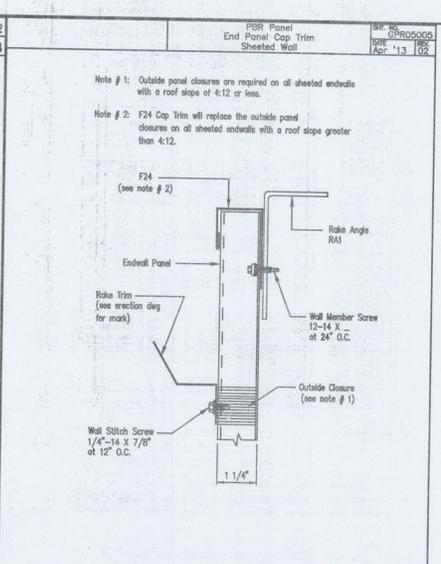
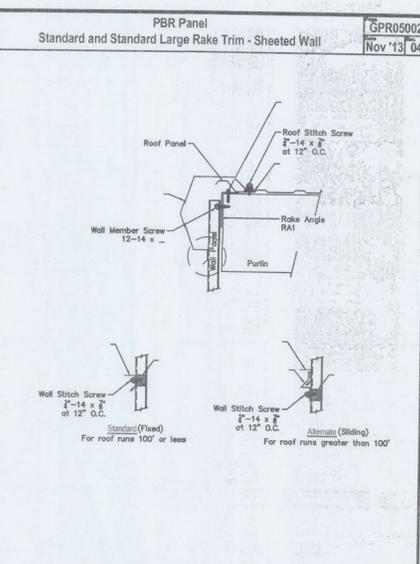
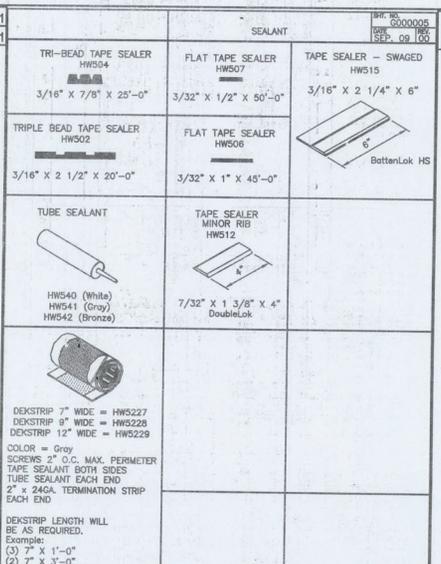
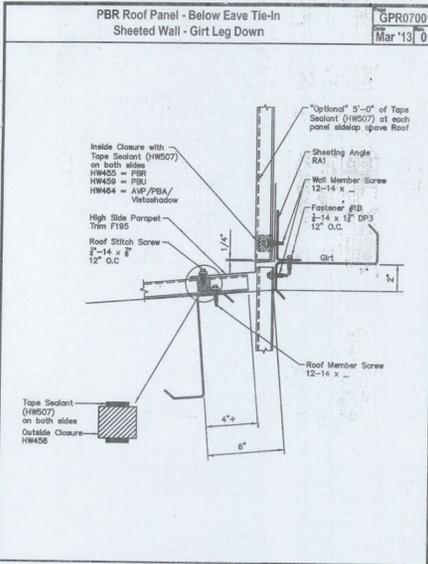
Project Name & Location:
MONSTA CLOTHING
TRANS MEMBERS
LAKELAND, FL 33802

Customer:
TRADEMARK CUST. GROUP
TRANS MEMBERS
LAKELAND, FL 33802

Drawing Status: For Construction Permit For Contractor Permit For Erector Installation

Scale: NOT TO SCALE
Drawn by: AWS 2/24/14
Checked by: SF 2/24/14
Project Engineer:
Job Number: 14-B-39239-1
Sheet Number: R9 of 15

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.



Revision	Date	Description
A	02/24/14	FOR CONSTRUCTION PERMIT

By: AWS
SF

Scale: NOT TO SCALE

Drawn by: AWS 2/24/14
Checked by: SF 2/24/14
Project Engineer:

Job Number: 14-B-39239-1

Sheet Number: R11 of 15

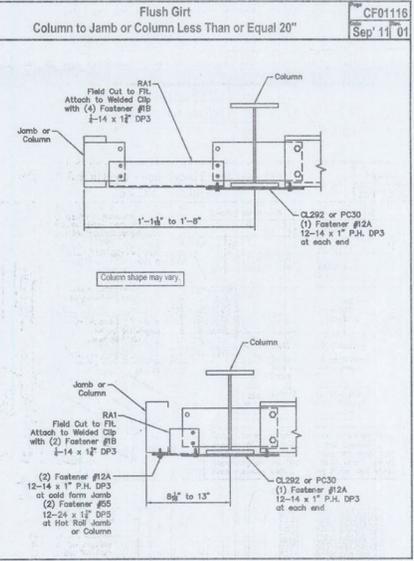
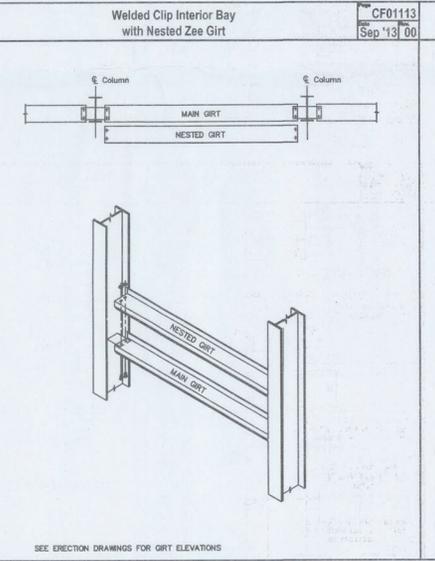
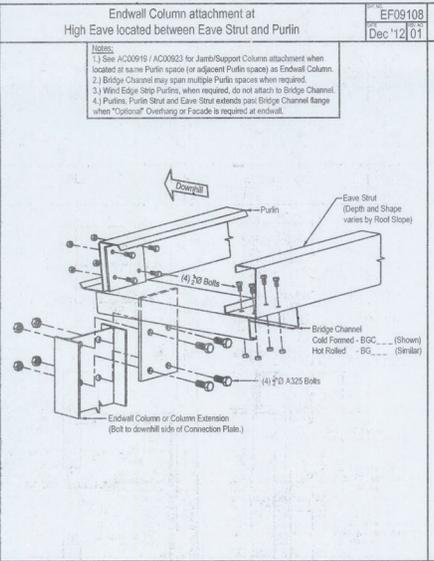
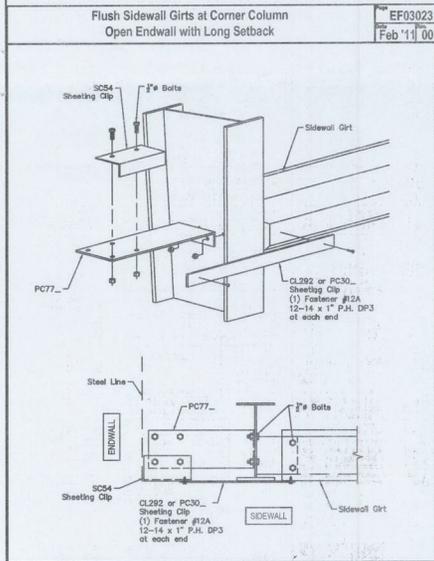
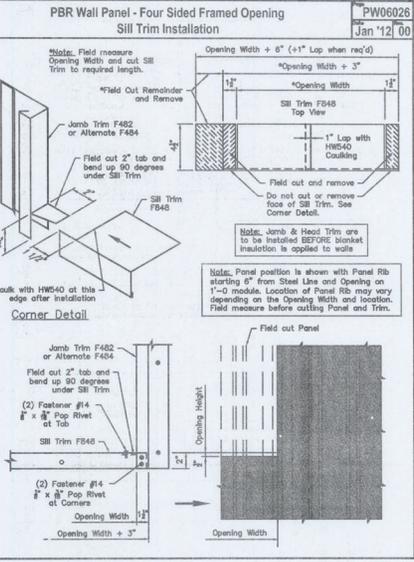
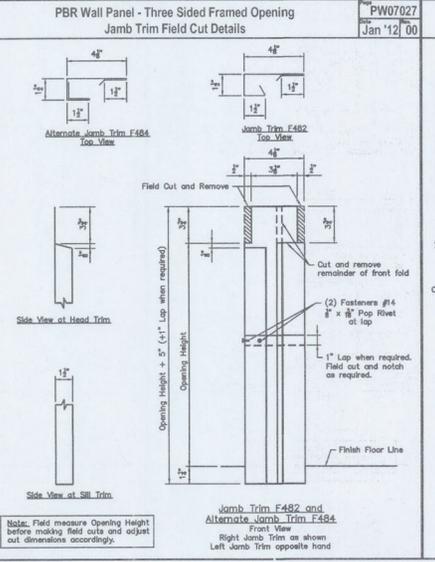
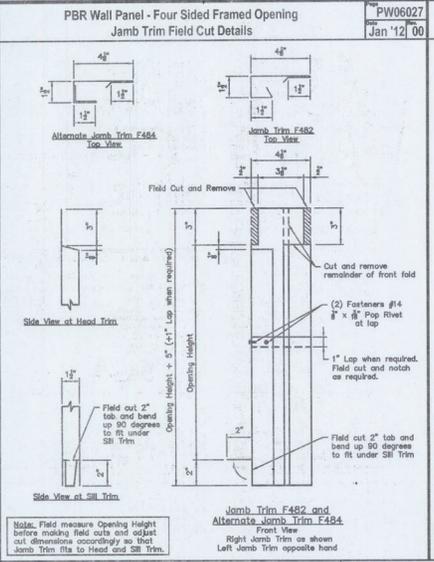
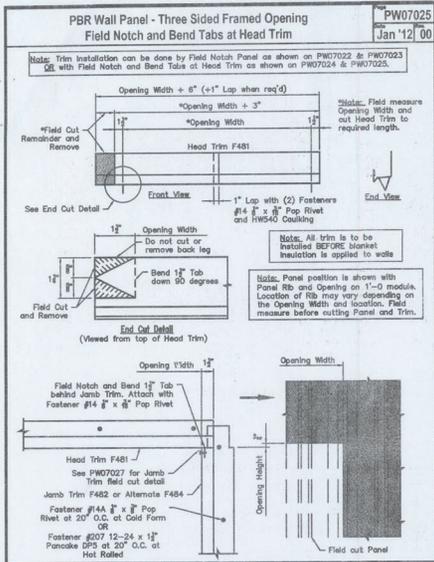
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Seal and certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Customer: TRADEMARK CNST. GROUP
MONSTA CLOTHING
128 SW MASSAUL ST.
LAKE CITY, FL 32025

Project Name & Location: MONSTA CLOTHING
750 SW MAIN BLVD.
LAKE CITY, FL 32025

Drawing Status: For Construction Permit For Erector Installation

Approval: For Construction For Erector Construction



Rev	Date	Description	By	Chk
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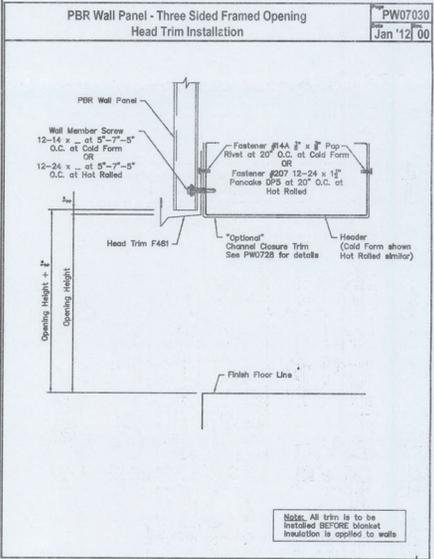
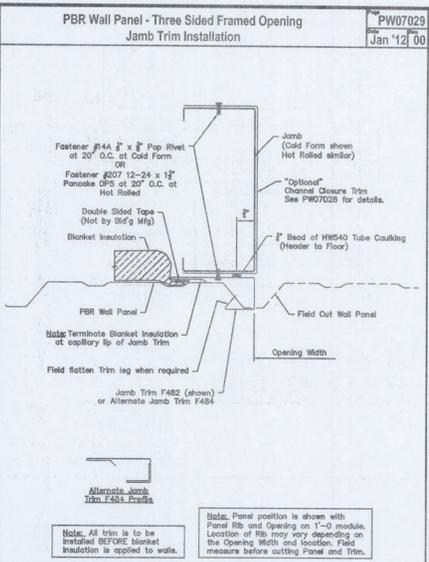
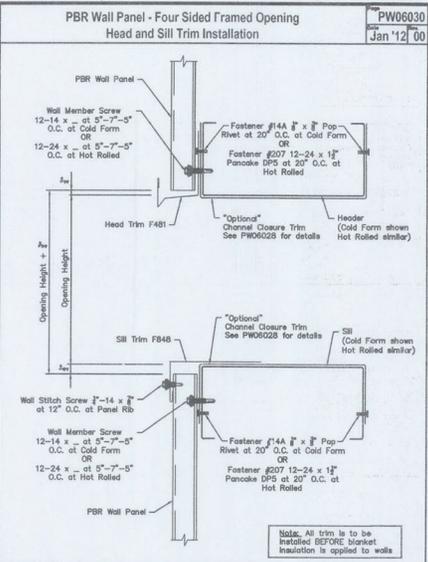
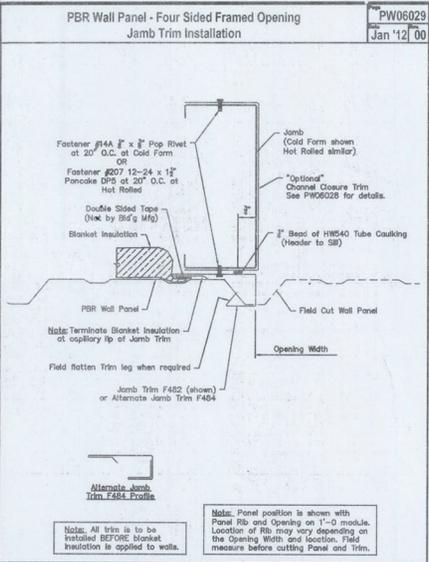
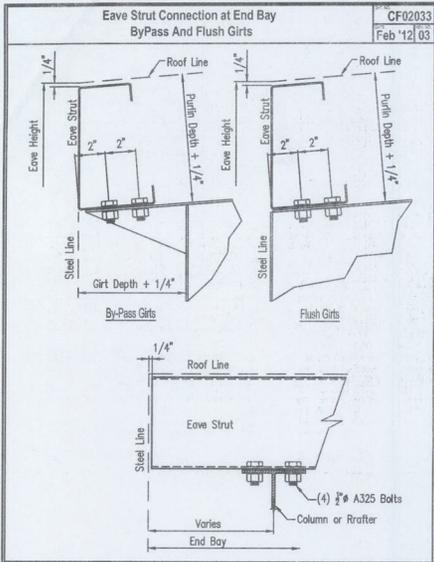
metallic building company
296 PARKWAY • WINTER HAVEN, FL 33908
(888) 446-7786 • 888-776-7786

Customer: METALIC GROUP
Project Name & Location:
TRANS MEDICAL CENTER
TRANS MEDICAL CENTER
750 A SW MAIN BLVD.
LAKE CITY, FL 32025

Drawn by: SE 2/24/14
Checked by: SE 2/24/14
Project Engineer:
Job Number: 14-B-39239-1
Sheet Number: R13 of 15

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Scale: NOT TO SCALE
Drawn by: AWS 2/24/14
Checked by: SE 2/24/14
Project Engineer:
Job Number: 14-B-39239-1
Sheet Number: R13 of 15



Revision	Date	Description
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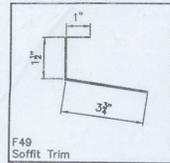
For Approval
 For Construction Permit
 For Installation

metallic building company
 2077 W. ...
 Project Name & Location:
 MONSTA CLOTHING
 TRAVIS MENDERS
 ...
 LAKELAND, FL 33025
 Drawing Status: Preliminary Final

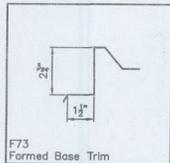
METALLIC
 Customer:
 TRADEMARK ONST. GROUP
 ...
 LAKELAND, FL 33025

Scale: NOT TO SCALE
 Drawn by: AWS 2/24/14
 Checked by: SF 2/24/14
 Project Engineer:
 Job Number: 14-B-39238-1
 Sheet Number: R14 of 15

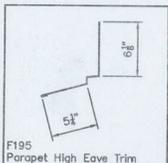
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.



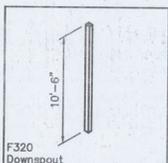
F49
Soffit Trim



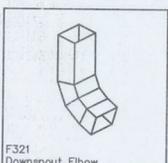
F73
Formed Base Trim



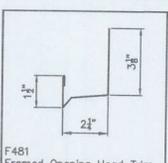
F195
Parapet High Eave Trim



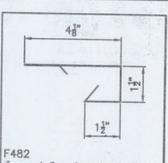
F320
Downspout



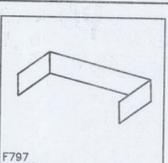
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Downspout Elbow



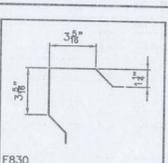
F481
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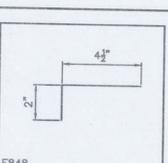
F482
Framed Opening Jamb Trim



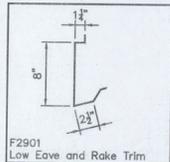
F797
Downspout Strap



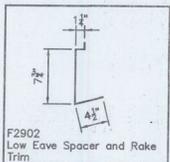
F830
Outside Corner Trim



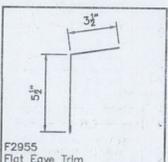
FB48
Framed Opening Sill Trim



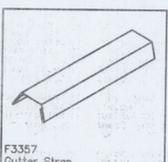
F2901
Low Eave and Rake Trim



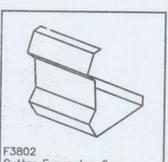
F2902
Low Eave Spacer and Rake Trim



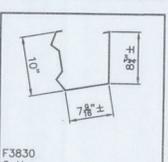
F2955
Flat Eave Trim



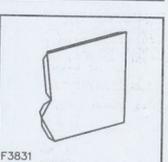
F3357
Gutter Strap



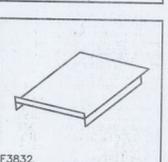
F3802
Gutter Expansion Cover



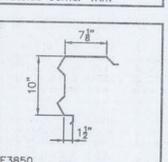
F3830
Gutter



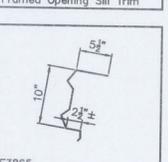
F3831
Gutter End Cap



F3832
Gutter Expansion Cap



F3850
Rake Trim



F3865
High Eave Trim

Revision	Date	Description	By	Chk'd
A	02/24/14	FOR CONSTRUCTION PERMIT	AWS	SF

METALLIC metallic building company
 7301 REEFER • HUNTER PALM BLVD. #100
 33411-1700 (772) 467-7766

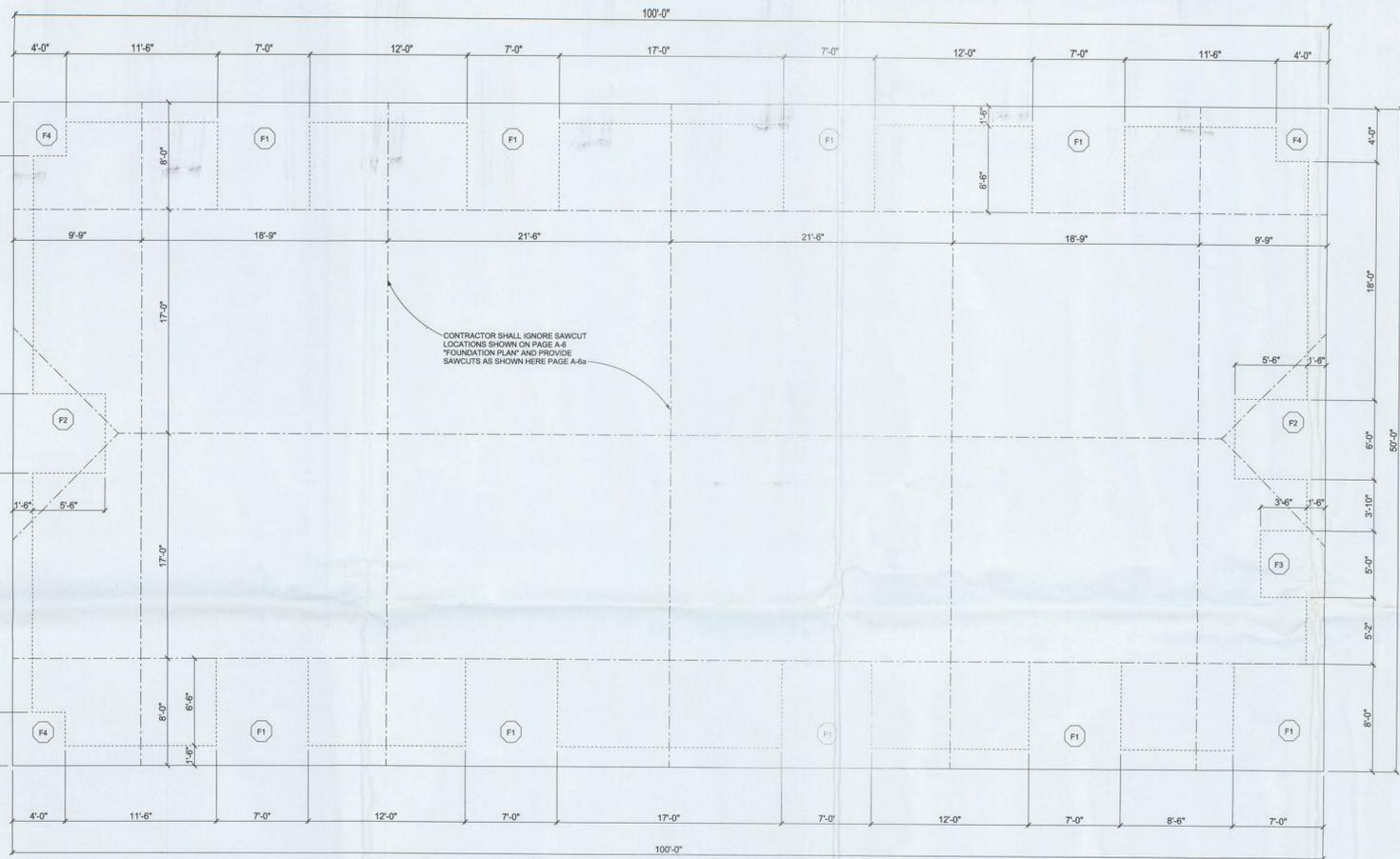
Customer: CRST GROUP
 1228 SW HASSAULT ST.
 LAKE CITY, FL 32025

Project Name & Location:
 MONSTA CLOTHING
 TRAVIS MEDLEY
 750 A SW MAIN BLVD.
 LAKE CITY, FL 32025

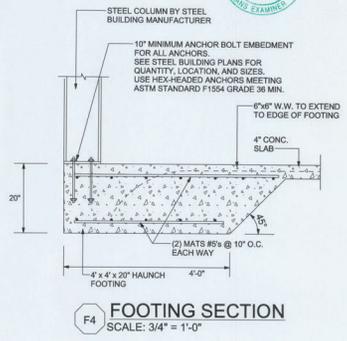
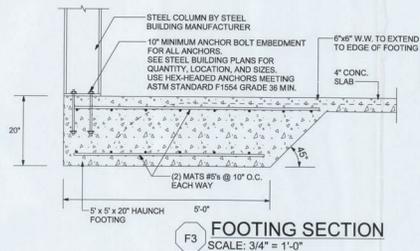
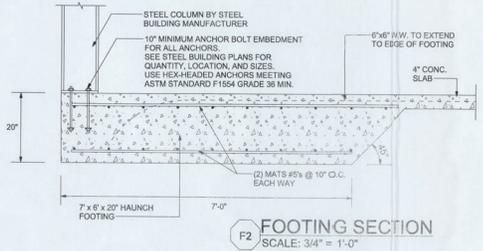
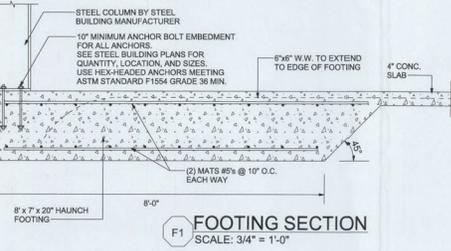
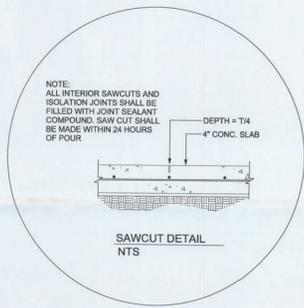
Drawing Status:
 Not For Construction
 For Construction Permit
 For Approval
 Not For Construction
 For Erector Installation

Scale: NOT TO SCALE
 Drawn by: AWS 2/24/14
 Checked by: SF 2/24/14
 Project Engineer:
 Job Number: 14-B-39239-1
 Sheet Number: R15 of 15

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.



Revision
31878



REVISIONS		DESCRIPTION	
DATE	BY	DESCRIPTION	



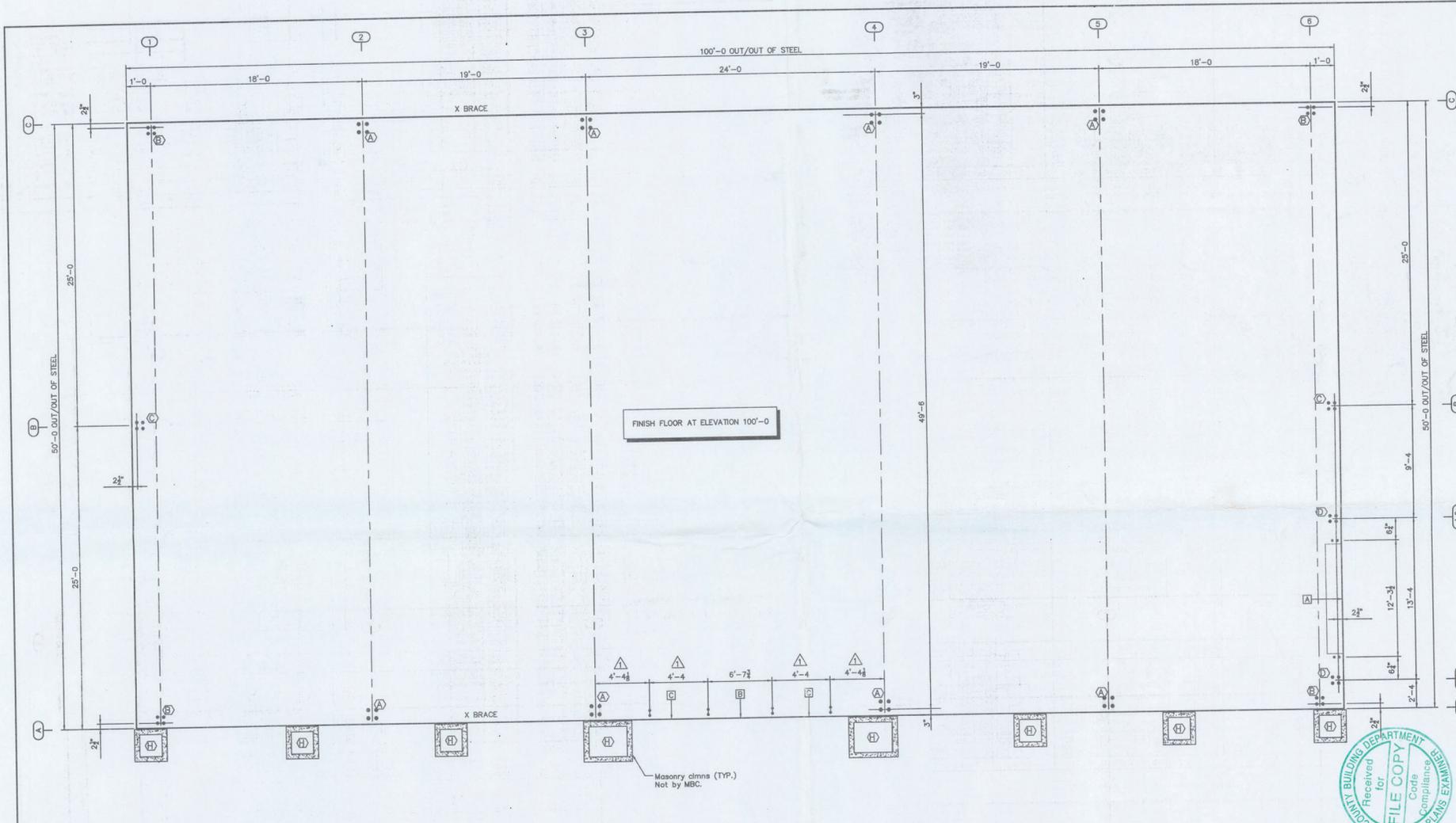
CERTIFICATE OF AUTHORIZATION
NO. 28022
P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.0085

APPROVED BY:
Brett A. Crews
07-17-2014
Brett A. Crews, P.E. 65592

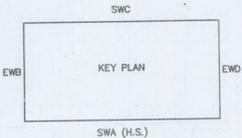
DRAWN BY:
TM
APPROVED BY:
BC

MONSTA CLOTHING
FOOTING PLAN FOR
STEEL COLUMNS

CES PROJECT NO.:
2013-015
SHEET:
A-6a



ACCESSORY SCHEDULE			
MARK	DESCRIPTION	DETAIL	QUAN.
A	12'-0" X 10'-0" FRAMED OPENINGS	E	1
B	6'-4" X 7'-2" FRAMED OPENINGS	F	1
C	4'-0" X 5'-0" FRAMED OPENINGS	I	2
D	3070 SWING DOORS	G	1



ANCHOR ROD SETTING PLAN

ANCHOR BOLTS TO BE DESIGNED BY FOUNDATION ENGINEER USING DIAMETERS SHOWN IN THIS TABLE.	
ANCHOR ROD DESCRIPTION	QUANTITY
1/2" DIAMETER X	4
3/8" DIAMETER X	76
1/2" DIAMETER X	32

- Anchor Rod Drawings
- 1) This drawing is for anchor rod placement only and is not foundation design.
 - 2) Foundation must be square and level with all anchor rods true in size, location, and projection.
 - 3) Projection shown must be held to keep threads clear of finished concrete.
 - 4) This structural design data includes magnitude and location of design loads and assume conditions, material properties, and type and size of major structural members necessary to show compliance with the Order Documents at the time of this issue. Any change to building loads or dimensions may change structural member sizes and locations shown. This structural design data will be superseded and voided by any future mailing.
 - 5) Anchor rod size is determined by shear and tension at the bottom of the base plate. The length of the anchor rod and method of load transfer to the foundation are to be determined by the foundation engineer, and are not provided by the manufacturer.
 - 6) Anchor rods are ASTM F1554 Gr. 36 material unless noted otherwise.



Revision	Date	Description	By	CHK'd
0	02/19/14	FOR ERECTOR INSTALLATION	AWS	SF
1	02/21/14	REVISED FOR ERECTOR INSTALLATION	AWS	SF

metallic building company
 20700 W. US HWY 19, SUITE 7200
 TAMPA, FLORIDA 33613
 (813) 887-7788

Project Name & Location:
 MONSTA CLOTHING
 TRAVIS MCDONNELL BLDG.
 LAKE CITY, FL 32025

Customer:
 TRADEMARK GNET. GROUP
 TRAVIS MCDONNELL ST.
 LAKE CITY, FL 32025

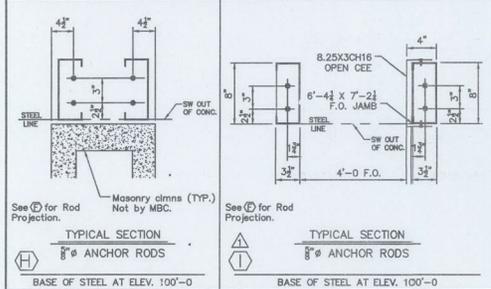
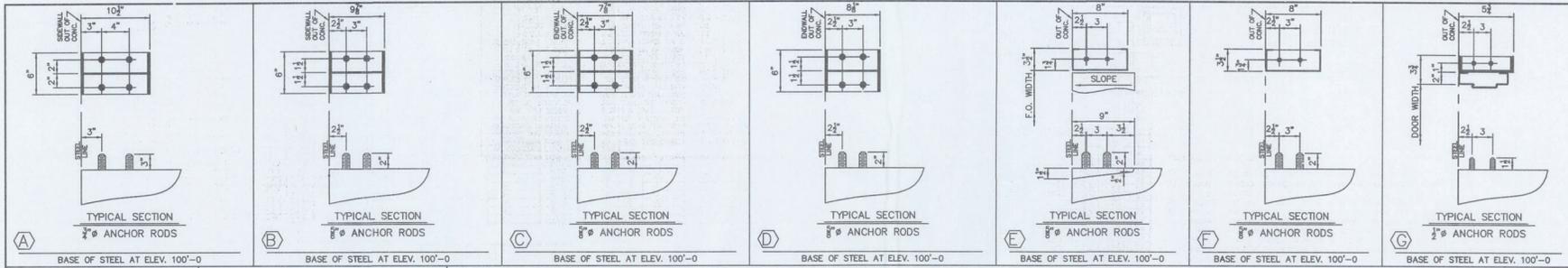
Drawing Status: Preliminary Construction For Construction Permit For Erector Installation

Scale: NOT TO SCALE
 Drawn by: AWS 2/19/14
 Checked by: SF 2/19/14
 Project Engineer: AWS
 Job Number: 14-B-39239-1
 Sheet Number: F1 of 3

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Franz Mutis, P.E.
 Florida P.E. 68606





Revision	Date	Description	By	Chk'd
0	02/19/14	FOR ERECTOR INSTALLATION	AWS	SF
1	02/21/14	REVISED FOR ERECTOR INSTALLATION	AWS	SF

metallic building company
 726 FAHNER • WESLON, TEXAS • P.O. BOX 8033
 817-756-1100 • www.mbc-usa.com

METALLIC

Customer: TRANSMARK CONST. GROUP
 TRANSMARK CONST. GROUP
 TRANSMARK INDUSTRIAL PARK
 LAKE CITY, FL 32025

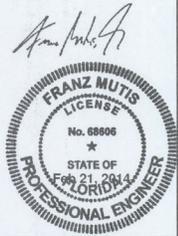
Project location: TRANSMARK INDUSTRIAL PARK
 LAKE CITY, FL 32025

Drawing Status: Preliminary For Construction For Erector Permit For Erector Installation

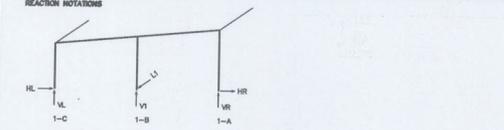
Scale: NOT TO SCALE
 Drawn by: AWS 2/19/14
 Checked by: SF 2/19/14
 Project Engineer: AXN
 Job Number: 14-B-39239-1
 Sheet Number: F2 of 3

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

Franz Mutis, P.E.
 Florida P.E. 68606



FRAME DESCRIPTION: **Support**
 USER NAME: **draughn** DATE: 2/12/14 FILE: **REC001** P/R: **EW-1**
 JOB NAME: **30238A** FILE NUMBER: **30238A**

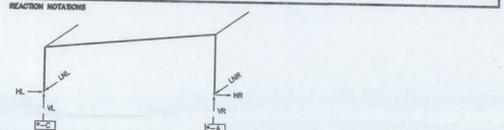


LOAD GROUP REACTION TABLE

LOAD GROUP	HL	VL	LR	HR	LR	HR	VL	LR
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C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
L	0.1	1.8	0.0	0.0	1.8	0.0	0.0	-0.3
W	-0.1	-3.0	0.0	0.1	-3.0	0.0	-0.1	3.9
WF	-0.1	-3.0	0.0	0.1	-3.0	0.0	-0.1	3.9
WE	-0.1	-3.0	0.0	0.1	-3.0	0.0	-0.1	3.9
WL	-0.1	-3.0	0.0	0.1	-3.0	0.0	-0.1	3.9

LOAD GROUP DESCRIPTION:
 D : DEAD LOAD
 C : COLLATERAL LOAD
 L : LIVE LOAD
 W : WIND LOAD AS AN INWARD ACTING PRESSURE
 WF : WIND LOAD AS AN OUTWARD ACTING SUCTION
 WE : WIND FORCE FROM THE RIGHT
 WL : WIND FORCE FROM THE LEFT

FRAME ID #1
 # 50,115,79,21.5 20,116,
 USER NAME: **draughn** DATE: 2/12/14 FILE: **REC001** P/R: **EW-2**
 JOB NAME: **30238A** FILE NUMBER: **30238A**

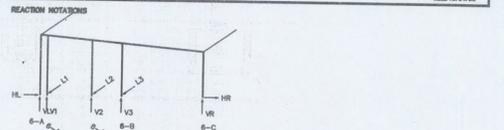


LOAD GROUP REACTION TABLE * = 3.4

LOAD GROUP	HL	VL	LR	HR	LR	HR	VL	LR
D	0.7	1.8	0.0	-0.7	1.8	0.0	0.0	0.0
C	2.9	6.4	0.0	-2.9	6.4	0.0	0.0	0.0
L	0.7	1.8	0.0	-0.7	1.8	0.0	0.0	0.0
W	-0.6	-10.8	0.0	1.1	-8.8	0.0	0.0	0.0
WL	-0.6	-10.8	0.0	1.1	-8.8	0.0	0.0	0.0
WE	0.0	-2.3	-3.1	-0.0	-1.4	-3.5	0.0	0.0
WEL	-0.9	-4.4	0.0	1.8	-6.9	0.0	0.0	0.0
WELR	-0.9	-4.4	0.0	1.8	-6.9	0.0	0.0	0.0
WELR	-0.9	-4.4	0.0	1.8	-6.9	0.0	0.0	0.0

LOAD GROUP DESCRIPTION:
 DL : Roof Dead Load
 LL : Roof Live Load
 COLL : Roof Collateral Load
 W1 : Lateral Primary Wind Load
 W2 : Lateral Primary Wind Load
 W3 : Lateral Primary Wind Load
 W4 : Lateral Primary Wind Load
 W5 : Lateral Primary Wind Load
 W6 : Lateral Primary Wind Load
 W7 : Lateral Primary Wind Load
 W8 : Lateral Primary Wind Load
 W9 : Lateral Primary Wind Load
 W10 : Lateral Primary Wind Load
 W11 : Lateral Primary Wind Load
 W12 : Lateral Primary Wind Load
 W13 : Lateral Primary Wind Load
 W14 : Lateral Primary Wind Load
 W15 : Lateral Primary Wind Load
 W16 : Lateral Primary Wind Load
 W17 : Lateral Primary Wind Load
 W18 : Lateral Primary Wind Load
 W19 : Lateral Primary Wind Load
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 W89 : Lateral Primary Wind Load
 W90 : Lateral Primary Wind Load
 W91 : Lateral Primary Wind Load
 W92 : Lateral Primary Wind Load
 W93 : Lateral Primary Wind Load
 W94 : Lateral Primary Wind Load
 W95 : Lateral Primary Wind Load
 W96 : Lateral Primary Wind Load
 W97 : Lateral Primary Wind Load
 W98 : Lateral Primary Wind Load
 W99 : Lateral Primary Wind Load
 W100 : Lateral Primary Wind Load

FRAME DESCRIPTION: **Support**
 USER NAME: **draughn** DATE: 2/12/14 FILE: **REC001** P/R: **EW-2**
 JOB NAME: **30238A** FILE NUMBER: **30238A**



LOAD GROUP REACTION TABLE

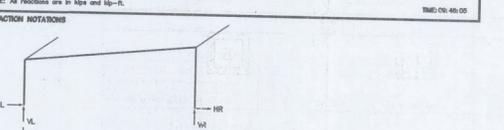
LOAD GROUP	HL	VL	LR	HR	LR	HR	VL	LR
D	0.0	-0.1	0.0	0.0	0.0	0.0	1.2	0.0
C	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0
L	0.0	-2.1	0.0	-2.1	0.0	0.0	0.0	0.0
W	0.1	3.8	0.0	0.1	-3.3	0.0	-4.8	2.5
WF	0.1	3.8	0.0	0.1	-3.3	0.0	-4.8	2.5
WE	0.1	3.8	0.0	0.1	-3.3	0.0	-4.8	2.5
WL	0.1	3.8	0.0	0.1	-3.3	0.0	-4.8	2.5
W	0.1	3.8	0.0	0.1	-3.3	0.0	-4.8	2.5
WF	0.1	3.8	0.0	0.1	-3.3	0.0	-4.8	2.5
WE	0.1	3.8	0.0	0.1	-3.3	0.0	-4.8	2.5
WL	0.1	3.8	0.0	0.1	-3.3	0.0	-4.8	2.5

LOAD GROUP DESCRIPTION:
 D : DEAD LOAD
 C : COLLATERAL LOAD
 L : LIVE LOAD
 W : WIND LOAD AS AN INWARD ACTING PRESSURE
 WF : WIND LOAD AS AN OUTWARD ACTING SUCTION
 WE : WIND FORCE FROM THE RIGHT
 WL : WIND FORCE FROM THE LEFT
 S : DESIGN SNOW LOAD

NOTES

- THE REACTIONS PROVIDED ARE BASED ON THE ORDER DOCUMENTS AT THE TIME OF MAKING. ANY CHANGES TO BUILDING LOADS OR DIMENSIONS MAY CHANGE THE REACTIONS. THE REACTIONS WILL BE SUPERSEDED AND VOIDED BY ANY FUTURE MAKING.
- THE REACTIONS PROVIDED HAVE BEEN CREATED WITH THE FOLLOWING LAYOUT (UNLESS NOTED OTHERWISE):
 - A REACTION TABLE IS PROVIDED WITH THE REACTIONS FOR EACH LOAD GROUP.
 - ROOF FRAMES
 - GABLED BUILDINGS
 - LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING THE LEFT SIDE OF THE BUILDING, AS SHOWN ON THE ANCHOR ROD DRAWING FROM THE OUTSIDE OF THE BUILDING.
 - INTERIOR COLUMNS ARE SPACED FROM LEFT SIDE TO RIGHT SIDE.
 - LEFT COLUMN IS THE LOW SIDE COLUMN.
 - RIGHT COLUMN IS THE HIGH SIDE COLUMN.
 - INTERIOR COLUMNS ARE SPACED FROM LOW SIDE TO HIGH SIDE.
 - DOWNSLOPES
 - LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING THE WALL FROM THE OUTSIDE.
 - INTERIOR COLUMNS ARE SPACED FROM LEFT TO RIGHT.
 - ANCHOR ROD SIZE IS DETERMINED BY SHEAR AND TENSION AT THE BOTTOM OF THE BASE PLATE. THE LENGTH OF THE ANCHOR ROD AND METHOD OF LOAD TRANSFER TO THE FOUNDATION ARE TO BE DETERMINED BY THE FOUNDATION ENGINEER.
 - ANCHOR RODS ARE ASTM F1554 Gr. 36 MATERIAL UNLESS NOTED OTHERWISE ON THE ANCHOR ROD LAYOUT DRAWING.
 - X-BRACING
 - ROOF BRACING REACTIONS HAVE BEEN INCLUDED IN VALUES SHOWN IN THE REACTION TABLES.
 - FOR IBC AND UBC BASED BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE SIDEWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (RBUFG & RBWNG) DO NOT INCLUDE THE AMPLIFICATION FACTOR, I_n .
 - FOR CANADA BUILDING CODE (NBC), WHEN X-BRACING IS PRESENT IN THE SIDEWALL OR ENDWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (RBUFG & RBWNG) ARE MULTIPLIED BY FORCE REDUCTION ACCELERATION RATIO M_F (AS 2010) IS GREATER THAN 0.45.
- REACTIONS ARE PROVIDED AS UN-FACTORED FOR EACH LOAD GROUP APPLIED TO THE COLUMN. THE FOUNDATION ENGINEER WILL APPLY THE APPROPRIATE LOAD FACTORS AND COMBINE THE REACTIONS IN ACCORDANCE WITH THE BUILDING CODE AND DESIGN SPECIFICATIONS TO DETERMINE BEARING PRESSURES AND CONCRETE DESIGN. THE FACTORS APPLIED TO LOAD GROUPS FOR THE STEEL COLUMN DESIGN MAY BE DIFFERENT THAN THE FACTORS USED IN THE FOUNDATION DESIGN.
- FOR PROJECTS USING ULTIMATE DESIGN WIND SPEEDS SUCH AS 2012 IBC OR 2010 FLORIDA BUILDING CODE, THE WIND LOAD REACTIONS ARE AT A DESIGN WIND SPEED WITH A LOAD FACTOR OF 1.2. THE MANUFACTURER DOES NOT PROVIDE "MAXIMUM" LOAD COMBINATION REACTIONS. HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE LOAD COMBINATIONS FOR HIGHER DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION DESIGN.

FRAME ID #1
 # 50,115,79,21.5 20,116,
 USER NAME: **draughn** DATE: 2/12/14 FILE: **REC001** P/R: **EW-2**
 JOB NAME: **30238A** FILE NUMBER: **30238A**



LOAD GROUP REACTION TABLE * = 2.5

LOAD GROUP	HL	VL	LR	HR	LR	HR	VL	LR
D	0.8	1.6	0.0	-0.8	1.7	0.0	0.0	0.0
C	2.4	5.5	0.0	-2.4	5.5	0.0	0.0	0.0
L	0.8	1.6	0.0	-0.8	1.6	0.0	0.0	0.0
W	-0.5	-12.7	0.0	0.8	-8.8	0.0	0.0	0.0
WF	-0.5	-12.7	0.0	0.8	-8.8	0.0	0.0	0.0
WE	-0.5	-12.7	0.0	0.8	-8.8	0.0	0.0	0.0
WL	-0.5	-12.7	0.0	0.8	-8.8	0.0	0.0	0.0
W	-0.5	-12.7	0.0	0.8	-8.8	0.0	0.0	0.0
WF	-0.5	-12.7	0.0	0.8	-8.8	0.0	0.0	0.0
WE	-0.5	-12.7	0.0	0.8	-8.8	0.0	0.0	0.0
WL	-0.5	-12.7	0.0	0.8	-8.8	0.0	0.0	0.0

LOAD GROUP DESCRIPTION:
 DL : Roof Dead Load
 LL : Roof Live Load
 COLL : Roof Collateral Load
 W1 : Lateral Primary Wind Load
 W2 : Lateral Primary Wind Load
 W3 : Longitudinal Primary Wind Load
 W4 : Longitudinal Primary Wind Load
 W5 : Longitudinal Primary Wind Load
 W6 : Longitudinal Primary Wind Load
 W7 : Lateral Primary Wind Load
 W8 : Lateral Primary Wind Load

Revision: 0 02/19/14 FOR EJECTOR INSTALLATION
 1 02/27/14 REVISED FOR EJECTOR INSTALLATION

Date: 02/19/14 FOR EJECTOR INSTALLATION
 02/27/14 REVISED FOR EJECTOR INSTALLATION

By: AWS SF
 ANS SF

Check: AWS SF
 ANS SF

Scale: NOT TO SCALE

Drawn by: AWS 2/19/14
 Checked by: SF 2/19/14
 Project Engineer: AXN
 Job Number: 14-B-39238-1
 Sheet Number: F3 of 3

The engineer whose seal appears hereon is an employee for the manufacturer of the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

FRANZ MUTIS
 LICENSE
 No. 88606
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

CONSTRUCTION DOCUMENTS

THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE RECORD SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES, FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRICATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS

AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

CHANGES TO FINAL PLAN SETS

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING THE ENGINEER. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATIONS ON THE PLANS.

MISC. NOTES

THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.

THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.

AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD. FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED, THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.

THE OWNER SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.

THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING OF THE PROJECT AND THE CONTRACTORS SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.

ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTORS AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.

ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.

ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.

MEANS OF EGRESS FBC CHAPTER 10		
OCCUPANCY CLASSIFICATION	UNSPRINKLERED & UNPROTECTED	PROVIDED
GROUP B (ASSEMBLY LESS THAN 50)	REQUIRED	MAX. 144'
MAX. TRAVEL DIST. (TABLE 10B.1)	200 FT	MAX. 144'
MAX. DEAD-END CORRIDOR (FBC 1018.4)	N/A	N/A
TOTAL # OF EXITS (TABLE 1021.1)	2	4
EGRESS WIDTH PER PERSON (LEVEL) (TABLE 1026.1)	0.2 37 x 0.2 = 7.4"	104"
MIN. CLEAR OPENING OF EXIT DOORS (FBC 1008.1.1)	32"	34"

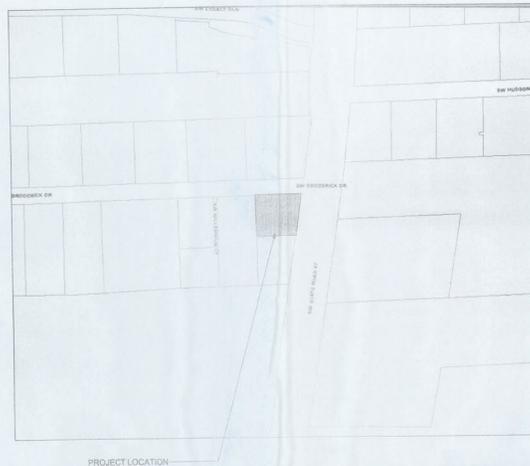
LIFE SAFETY NOTES

ALL EXIT AND EMERGENCY LIGHTING SHALL BE INSTALLED PER NEC 700-12, 2011 EDITION.

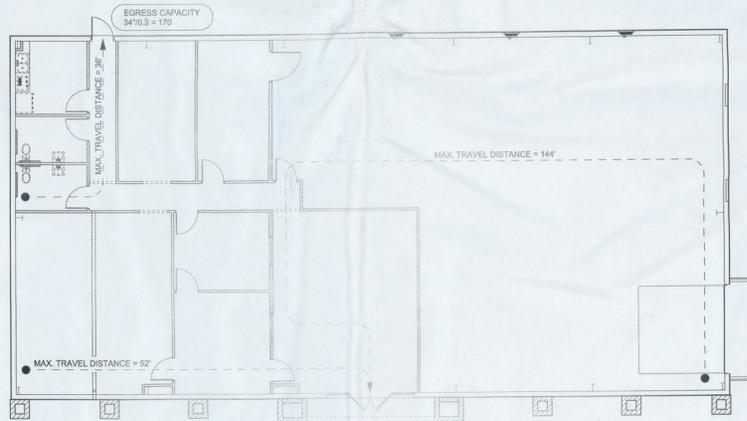
ACCESS TO EXITS SHALL BE MARKED BY APPROVED READILY VISIBLE SIGNS IN ALL CASES WHERE THE EXIT OR WAY TO REACH THE EXIT IS NOT READILY APPARENT TO THE OCCUPANTS. SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN THE EXIT ACCESS CORRIDOR IS MORE THAN 100 FT FROM THE NEAREST EXTERNALLY ILLUMINATED SIGN AND IS NOT IN EXCESS OF THE MARKED RATINGS FOR INTERNALLY ILLUMINATED SIGNS.

ALL FIRE EXTINGUISHERS SHALL BE TYPE 2A-20BC AND SHALL BE LOCATED SO THAT NO POINT IN THE DIRECTION OF TRAVEL FROM ANY POINT IS MORE THAN 75 FT TO THE FIRE EXTINGUISHER.

NOTE:
SEE ELECTRICAL DRAWINGS FOR LOCATIONS OF ALL EMERGENCY EXIT LIGHTING



MONSTA CLOTHING CO.
WORLD HEADQUARTERS



LIFE SAFETY
SCALE: 1/8" = 1'-0"

ABBREVIATIONS

A.B. Anchor Bolt	Ft. Floor	Pl. H.L. Plate Height
Abv. Above	Fdn. Foundation	Pl. Sh. Plant Shelf
A/C Air-Conditioner	F.F. Sys. Floor System	PSF Pounds per square foot
Adj. Adjustable	F.F. Finopce Floor System	P.T. Pressure Treated
A.F.F. Above Finished Floor	Fl. Foot / Feet	Pwd. Powder Room
A.H.U. Air Handler Unit	Footing	Rad. Radius
ALT. Alternate	FX Fixed	Ref. Refrigerator
B.C. Base Cabinet	Galv. Galvanized	Req'd. Required
B.F. Bilfold Door	G.C. General Contractor	Rm. Room
Bk Sh Book Shelf	G.F.I. Ground Fault Interrupter	Rnd. Round
Bn. Beam	G.T. Gilder Truss	RSH. Root and Shelf
BOT. Bottom	Hdr. Header	SD. Smoke Detector
B.P. Bypass door	Ht. Height	S.F. Square Ft.
Brg. Bearing	HS Hose Bibb	Sh. Shelves
Cf. Circle	Int. Interior	SHIT Sheet
Cig. Ceiling	K/Wall Kneewall	S.L. Side Lights
Col. Column	K.S. Knee Space	S.P.F. Spruce Pine Fir
Comp. A/C Compressor	Laun. Laundry	Sq. Square
C.T. Ceramic Tile	Law. Lavatory	S.V.P. Southern Yellow Pine
D Dryer	L.F. Linear Ft.	Temp. Tempered
Dec. Decorative	L.T. Laundry Tub	Thk'n. Thick
Dev. Dedicated Outlet	Mas. Masonry	T.O.B. Top of Block
Dbl. Double	Max. Maximum	T.O.M. Top of Masonry
Dia. Diameter	M.C. Medicine Cabinet	T.O.P. Top of Plate
Disp. Disposal	MDP Master Distribution Panel	Trans. Transition Window
Dist. Distance	Mfr. Manufacturer	Typ. Typical
D.S. Drawer Stack	Micro. Microwave	UCL Under Cabinet Lighting
D.V. Dryer Vent	Min. Minimum	U.N.O. Unless Noted Otherwise
D.W. Dishwasher	M.L. Milliam	VB Vandy Base
Each Each	Mic. Mirror	Vert. Vertical
E.W. Each Way	Mono. Monolithic	V.L. Versalim
Elec. Electrical	N.T.S. Not to Scale	VTR Vent through Roof
Elev. Elevation	Op'n. Opening	W Washer
Ext. Exterior	Opt. Optional	Wt. With
Exp. Expansion	Pc. Piece	W/C Water Closet
F.B.C. Florida Bldg. Code	Ped. Pedestal	W.A. Wedge Anchor
Fin. Fl. Finished Floor	P.L. Parallell	Wd. Wood
F.G. Fixed Glass	PLF Pounds per linear foot	WP Water Proof

BUILDING USE, CLASSIFICATION & OCCUPANCY AS PER TABLES 503 & 1004.1.1, FLORIDA BUILDING CODE, 2010 ED.	
BUILDING GROUP OCCUPANCY	GROUP B
TABLE 503 TYPE OF CONSTRUCTION	TYPE V
TABLE 503 AREA/HEIGHT LIMITATIONS	9,000 SF/1 STORY
OCCUPANT LOAD:	
BUSINESS OCCUPANCY	14
2370 SF @ 100 SF/PERSON	
MECHANICAL STOCK/STORAGE USE	23
3758 SF @ 300 SF/PERSON	
TOTAL OCCUPANT LOAD:	37 PERSONS



INDEX OF SHEETS	
SHEET	DESCRIPTION
LS-1	COVER SHEET AND LIFE SAFETY
A-1	GENERAL PROJECT NOTES
A-2	FLOOR PLAN
A-3	ELEVATIONS FRONT AND REAR
A-4	ELEVATIONS SIDES
A-5	UPPER STORAGE PLAN
A-6	FOUNDATION PLAN
A-7	SECTIONS AND DETAILS
P-1	FOUNDATIONS NOTES
P-2	PLUMBING PLAN
E-1	ELECTRICAL NOTES
E-2	ELECTRICAL PLAN
M-1	MECHANICAL NOTES
M-2	HVAC LAYOUT

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



CERTIFICATE OF AUTHORIZATION
NO. 28022

P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4055



DRAWN BY:
TM

APPROVED BY:
BC

MONSTA CLOTHING

COVER SHEET AND LIFE SAFETY

CES PROJECT NO.:

2013-015

SHEET:

LS-1

GENERAL NOTES:

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER PROJECT DRAWINGS BY OTHER DISCIPLINES. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT LOCAL BUILDING CODE. THESE DRAWINGS ARE NOT TO BE USED IN LIEU OF SHOP DRAWINGS AND ARE NOT INTENDED TO BE SCALED.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS RELATING TO EXISTING CONDITIONS BY MAKING FIELD SURVEYS AND MEASUREMENTS PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION METHODS USED WILL NOT CAUSE DAMAGE TO ADJACENT BUILDINGS, UTILITIES, OR OTHER PROPERTY. THIS REQUIREMENT IS PARTICULARLY IMPORTANT DURING FOUNDATION INSTALLATION.
- THE GENERAL CONTRACTOR IS ADVISED TO CONSIDER PERFORMING PHOTOGRAPHIC SURVEYS AND OTHER DOCUMENTATION OF THE CONDITION OF ADJACENT BUILDINGS AND OTHER STRUCTURES BEFORE THE START OF CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL OBTAIN COPIES OF THE LATEST CONTRACT DOCUMENTS, INCLUDING ALL ADDENDA, AND PROVIDE THE RELEVANT PORTIONS TO ALL SUB-CONTRACTORS AND SUPPLIERS PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND FABRICATION AND ERECTION OF STRUCTURAL MEMBERS.
- THE GENERAL CONTRACTOR SHALL COMPARE AND COORDINATE THE DRAWINGS OF ALL DISCIPLINES AND REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS TO THE ENGINEER.
- DETAILS LABELED "TYPICAL" SHALL APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY DETAILED. SEE DETAIL TITLES FOR APPLICABILITY OF A PARTICULAR DETAIL. TYPICAL DETAILS SHALL APPLY WHETHER OR NOT THEY ARE SPECIFICALLY KEYS AT EACH LOCATION. THE ENGINEER SHALL HAVE FINAL AUTHORITY TO DETERMINE APPLICABILITY OF TYPICAL DETAILS.
- WHERE CONFLICTS EXIST BETWEEN STRUCTURAL DOCUMENTS THE STRICTEST REQUIREMENTS, AS INDICATED BY THE STRUCTURAL ENGINEER SHALL GOVERN.
- THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
- NO STRUCTURAL MEMBER SHALL BE CUT OR NOTCHED OR OTHERWISE REDUCED IN STRENGTH UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

RESPONSIBILITY:

- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE AND ARE NOT INTENDED TO INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES, AND FOR JOB SAFETY.
- THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN WORK AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- PERIODIC SITE OBSERVATION VISITS MAY BE PROVIDED BY THE STRUCTURAL ENGINEER. THE SOLE PURPOSE OF THESE OBSERVATIONS IS TO REVIEW THE GENERAL CONFORMANCE OF THE CONSTRUCTION WITH THE STRUCTURAL CONTRACT DOCUMENTS. THESE LIMITED OBSERVATIONS SHALL NOT BE CONSTRUED AS CONTINUOUS OR EXHAUSTIVE TO VERIFY THAT ALL CONSTRUCTION IS IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING ALL WORK IN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

FOUNDATIONS:

ALL VEGETATION, TOPSOILS, ROOTS AND ORGANIC ZONES SHALL BE STRIPPED AND REMOVED FROM THE CONSTRUCTION AREA FOR A DISTANCE OF AT LEAST 5 FEET BEYOND THE EXTERIOR OF BUILDING FOUNDATION UNITS. THE DEPTH OF STRIPPING SHALL BE THAT REQUIRED TO REMOVE SIGNIFICANT ROOT ZONES, SMALL TREE STUMPS AND OTHER UNACCEPTABLE MATERIALS, BUT IN NO CASE LESS THAN 6 INCHES.

- EXCAVATIONS FOR LARGE STUMPS, ABANDONED UTILITIES, UNDERGROUND TANKS, ETC. SHALL BE BACKFILLED IN LAYERS WITH COMPACTION AND TESTING OF EACH LAYER AS DESCRIBED FOR PLACEMENT AND COMPACTION OF FILL MATERIAL. USE LOOSE BACKFILL LAYER THICKNESS APPROPRIATE FOR THE SIZE OF COMPACTOR BEING USED.
- THE EXPOSED SOILS AT THE STRIPPED SURFACE WITHIN AND TO A POINT 5 FEET OUTSIDE THE BUILDING CONSTRUCTION AREA SHALL BE COMPACTED WITH OVERLAPPING PASSES WITH A LIGHT WEIGHT VIBRATORY DRUM ROLLER. DENSITIES OF AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D 1557) SHALL BE UNIFORM, OBTAINED TO A DEPTH OF AT LEAST 24 INCHES BELOW THE COMPACTED SURFACE, REGARDLESS OF THE DEGREE OF COMPACTION ACHIEVED. A MINIMUM OF EIGHT COMPLETE COVERAGES SHALL BE MADE WITHIN THE BUILDING AREA. THE ROLLER COVERAGES SHALL BE DIVIDED EVENLY INTO TWO PERPENDICULAR DIRECTIONS. THE CONTRACTOR IS ADVISED NOT TO USE THE VIBRATORY MODE OF COMPACTORS IN CLOSE PROXIMITY TO EXISTING STRUCTURES. THE CONTRACTOR SHALL COORDINATE COMPACTOR EFFORTS AND FOUNDATION INSTALLATIONS TO INSURE THAT NO DAMAGE OCCURS TO ADJACENT STRUCTURES.
- AFTER COMPLETION OF DENISIFICATION OF EXISTING SOILS, STRUCTURAL FILL SHALL THEN BE PLACED IN LIFTS NOT EXCEEDING 6 INCHES IN THICKNESS WHEN USING THE ROLLER PREVIOUSLY DESCRIBED. EACH LIFT SHALL BE THOROUGHLY COMPACTED WITH THE VIBRATORY ROLLER UNTIL DENSITIES EQUIVALENT TO AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY ARE UNIFORMLY OBTAINED. STRUCTURAL FILL SHALL CONSIST OF AN INORGANIC, NON-PLASTIC, GRANULAR SOIL CONTAINING LESS THAN 10 PERCENT MATERIAL PASSING THE NO. 200 MESH SIEVE, A RELATIVELY CLEAN SAND WITH A UNIFIED SOIL CLASSIFICATION OF SP OR SW.
- FOOTINGS AND MAT HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 4000 PSF. THE UPPER 12 INCHES OF SANDY BEARING SOILS IN THE FOOTING EXCAVATION OF THE BOTTOMS SHALL BE COMPACTED TO DENSITIES EQUIVALENT TO 95 PERCENT OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY. COMPACTOR OR RECOMPACTION OF THE FOOTING EXCAVATION BEARING LEVEL SOILS LOOSENED BY THE EXCAVATION PROCESS, SHALL BE ACHIEVED BY MAKING SEVERAL PASSES WITH A RELATIVELY LIGHTWEIGHT, WALKBEHIND VIBRATORY SLED OR ROLLER COMPACTOR.
- UNLESS NOTED, ALL FOOTINGS SHALL BE CENTERED UNDER COLUMNS, PIERS AND WALLS.
- SLAB-ON-GRADE CONSTRUCTION SHALL BE SUPPORTED ON SUBGRADE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557) TO A DEPTH OF AT LEAST 12 INCHES. INTERIOR SLAB-ON-GRADE SHALL BE CAST OVER A VAPOR RETARDER, SEE SPECIFICATION.
- RETAINING WALLS HAVE BEEN DESIGNED FOR AN ASSUMED LATERAL EARTH PRESSURE OF 110 PSF PER FOOT OF DEPTH AND AN ASSUMED SURCHARGE OF 200 PSF. DESIGN ASSUMES WET FLOOR AND DRAINED BACKFILL.

AS-BUILT DRAWING REQUIREMENTS:

- ELECTRICAL CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELECTRIC PLAN, ADDITIONS, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE WITH ALL CIRCUITS IDENTIFIED WITH CIRCUIT NUMBER, DESCRIPTION, AND BREAKER, & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIAGRAM SHALL INCLUDE WIRE SIZES/TYPE AND EQUIPMENT TYPE WITH RATINGS AND LOADS.
- PLUMBING CONTRACTOR SHALL PREPARE "AS-BUILT" SHOP DRAWINGS INDICATING ALL PLUMBING WORK, INCLUDING ALL PLUMBING LINE LOCATIONS AND RISER DIAGRAM

CONCRETE MASONRY:

- SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.
- CONCRETE MASONRY UNITS SHALL BE LOAD BEARING TYPE CONFORMING TO ASTM C-80 HAVING A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI (NET AREA).
- MORTAR SHALL CONFORM TO ASTM C-270 TYPE S.
- PLAN END TWO CELLENTS SHALL BE USED FOR BLOCKS THAT ARE TO HAVE CELLS REINFORCED AND FILL. WRE SHELLS ADJACENT TO CELLS THAT ARE TO BE FILLED ARE TO BE BEDED IN MORTAR.
- FILL CELLS AS NOTED ON DRAWINGS WITH 3000 PSI GROUT, OR GROUT CONFORMING TO ASTM C-718, SPECIFICALLY DESIGNED FOR FILLING OF CELLS.
- IN SPLICING VERTICAL BRS, LAP ENDS, LAP ENDS, PLACE IN THE PLANE OF THE WALL TO USE BAR POSITIONERS. SPARS BEHIND BY 2 INCHES.
- SEE PRIMARY CODES, SPECIFICATIONS AND DRAWINGS FOR GROUTING PROCEDURES.
- INSTALLATION OF CONCRETE MASONRY SHALL BE COMPATIBLE WITH ALL APPLIED FINISHES SUCH AS STUCCO OR PAINT. DO NOT SPONGE WALLS WITHOUT PROPER CLEANING COMPATIBLE WITH FINISHES.
- PROVIDE GALVANIZED WIRE TYPE HORIZONTAL JOINT REINFORCING AT 18" O.C. (MAX) AND AS INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE HOT DIP GALVANIZED HUR ON ALL EXTERIOR WALLS. IN ADDITION TO SCHEDULED OR DETAILED LINTEL AND SILL REINFORCING, PROVIDE TWO LAYERS OF HUR AT 8 INCHES ON CENTER ABOVE AND BELOW ALL LINTELS AND SILLS WHICH SPAN MORE THAN 12 INCHES. EXTEND ADDED HUR 24 INCHES BEYOND THE OPENING JAMBS EXCEPT AT WCJ.
- MASONRY BOND BEAMS AD CONCRETE REINFORCING SHALL BE CAST ON MASONRY WALLS SHALL BE CONSTRUCTED AS TO BE AND BEHIND LINTELS TO ALLOW FOR BRACKING PAPER OR SHEET PLACING TO CLISE VOIDS BELOW BEAMS IS NOT ALLOWED DUE TO BREAKAGE OF MORTAR BOND.
- SEE ENGINEERS DRAWINGS FOR THE EXTENT AND EXACT LOCATION OF MASONRY WALLS.

WALL CONTROL JOINTS (WCJ):

- WALL CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION AT LOCATIONS INDICATED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS BUT UNLESS NOTED OTHERWISE AT A SPACING NOT GREATER THAN 24' O.C.
- HORIZONTAL JOINT REINFORCING SHALL BE INTERRUPTED EACH SIDE OF WALL CONTROL JOINT.
- WALL CONTROL JOINTS SHALL NOT BE PLACED OVER OPENINGS OR WITHIN AN OPENING JAMB WIDTH. SEE PLANS AND/OR JAMBS REINFORCING SCHEDULE FOR MINIMUM JAMB WIDTH.
- SEE ARCHITECTURAL DRAWINGS FOR SEALANT REQUIREMENTS AT WALL CONTROL JOINTS.
- SEE THESE DRAWINGS FOR ADDITIONAL REQUIREMENTS.

- MASONRY WALLS SHALL BE BRACED EITHER BY OTHER INTERSECTING WALLS OR BY ANCHORAGE OR BRACING TO THE STRUCTURE ABOVE, OR TO ADJACENT WALLS, AS DETAILED ON THE STRUCTURAL DRAWINGS.

- BLOCK LINTELS SHALL BE SPECIALLY FORMED U-SHAPED LINTEL OR LOW WEB LINTEL UNITS WITH REINFORCING BARS OR PRECAST UNITS DESIGNED FOR THE WEIGHT OF MASONRY ABOVE AND OTHER APPLIED LOADS.

- ALL MASONRY WALLS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES IN THE FINAL CONSTRUCTION. THE CONTRACTOR ONLY IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY BRACE THE WALLS FOR VERTICAL AND LATERAL LOADS THAT COULD POSSIBLY BE APPLIED PRIOR TO COMPLETION OF LATERAL SUPPORT BY CONNECTIONS AT FLOORS OR ROOF FRAMING LEVELS.

- QUALITY ASSURANCE: ALL REINFORCED MASONRY SHALL BE TESTED/INSPECTED IN CONFORMANCE WITH THE REFERENCED ACI 530/ASCE 5/TMS 402 CODES AND THE PROJECT SPECIFICATIONS.

- TYPICAL SCHEDULED VERTICAL WALL REINFORCING SIZE AND SPACING SHALL ALSO BE CONTINUED ABOVE AND BELOW ALL OPENINGS.

REINFORCING STEEL:

- REINFORCING STEEL: ASTM A 615, GRADE 60.
- WELDED WIRE FABRIC: ASTM A 185 (PLAT SHEETS), MINIMUM YIELD STRENGTH OF 70,000 PSI.
- MINIMUM REINFORCING STEEL CLEAR COVER (IN O.):
 A. CONCRETE CAST DIRECTLY AGAINST EARTH: 3"
 B. INTERIOR SLABS: 1"
 C. INTERIOR BEAMS: 1-1/2" TO TIES
 D. SLABS ON GRADE: 1-1/2" FROM TOP
- WHERE REINFORCING BARS ARE NOTED AS CONTINUOUS, THE FOLLOWING SHALL BE COMPLIED WITH:
 A. THE TERMINATION OF ALL CONTINUOUS REINFORCING BAR RUNS SHALL BE A STANDARD HOOK UNLESS NOTED OTHERWISE.
 B. SPLICES IN CONTINUOUS TOP BARS, IF REQUIRED, SHALL OCCUR OVER PARALLEL CMU WALLS OR AT THE CENTER OF THE OPENING SPAN.
 C. SPLICES IN CONTINUOUS BOTTOM BARS, IF REQUIRED, SHALL OCCUR OVER CMU WALLS OR CENTERED OVER COLUMNS.
- WHERE SPICE LENGTHS ARE NOT SPECIFIED, USE 48 BAR DIAMETERS IN MASONRY AND 40 BAR DIAMETERS IN CAST CONCRETE.
- REINFORCING STEEL SHALL NOT BE TACK WELDED FOR ANY REASON. WELDED REINFORCING STEEL SPLICES ARE NOT PERMITTED.
- LAP ALL WELDED WIRE FABRIC A MINIMUM DISTANCE OF ONE CROSS WIRE SPACING PLUS 2 INCHES.
- ALL REINFORCING STEEL SHALL BE SUPPORTED ON STANDARD ACCESSORIES, HELD RIGIDLY AND ACCURATELY IN PLACE, AND PROTECTED AGAINST DISPLACEMENT BEFORE AND DURING PLACEMENT OF CONCRETE. SUPPORTING ACCESSORY LESS THAT REST ON CONCRETE SURFACES THAT WILL BE EXPOSED IN THE FINISHED STRUCTURE SHALL BE FABRICATED OF STAINLESS STEEL.
- DOWELS AND OTHER MISCELLANEOUS STEEL EMBEDDED ITEMS SHALL BE LOCATED AND HELD IN SPECIFIED POSITION PRIOR TO PLACEMENT OF CONCRETE AND SHALL NOT BE PUSHED INTO CONCRETE FOLLOWING CONCRETE POUR.
- FOUNDATION AND GRADE BEAM REINFORCING SHALL BE SUPPORTED ON SPECIALLY CAST 3-1/2 INCH HIGH CONCRETE BLOCKS CAST IN ACCORDANCE WITH DETAILS FURNISHED ON DRAWINGS. SLAB-ON-GRADE REINFORCING, INCLUDING WIRE FABRIC, SHALL BE SUPPORTED ON PRECAST BLOCKS OR 3000 PSI CONCRETE BRICK OF THE PROPER THICKNESS.

STRUCTURAL STEEL (SHOP DRAWINGS REQUIRED):

- SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.
- MATERIALS:
 W-SHAPES & WT-SHAPES: ASTM A992
 S-SHAPES, M-SHAPES, HP-SHAPES: ASTM A36
 ST-SHAPES & MT-SHAPES: ASTM A36
 C-SHAPES & MC-SHAPES: ASTM A36
 ANGLES & PLATES: ASTM A36
 HSS SHAPES: ASTM A500, GRADE B
 STEEL PIPE: ASTM A53 (TYPE E OR S), GRADE B
 HIGH STRENGTH BOLTS: ASTM A325
 MACHINE BOLTS: ASTM A325
 ANCHOR BOLTS: ASTM A1554, GRADE 55 TYPE 81(UNO)
 WELDED HEADED STUDS: ASTM A108
 REINFORCED BAR ANCHORS: ASTM A498
 WELDING ELECTRODES: AWS D1.1, E70 SERIES
- NON-SHRINK, NON-METALLIC GROUT WITH A 28 DAY STRENGTH OF 5000 PSI SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO CORPS OF ENGINEERS CRD-C621, FACTORY PREMIUM GROUT. SEE SPECIFICATIONS FOR TESTING REQUIREMENTS.
- ENGINEER SHALL BE CONTACTED FOR APPROVAL OF ANY FIELD MODIFICATIONS OF ANCHOR WPS, TR OR RODS AND COLUMN BASE PLATES (PER 09H4).
- TEMPORARY BRACING OF STRUCTURAL STEEL ELEMENTS IS THE RESPONSIBILITY OF THE CONTRACTOR. STRUCTURAL STABILITY SHALL BE MAINTAINED AT ALL TIMES DURING THE ERECTION PROCESS.
 CONTRACTOR MUST PROVIDE NOTIFICATION TO THE ERECTOR THAT, BY TESTING, THE FOUNDATION AND SUPPORTING WALLS HAVE ATTAINED SUFFICIENT STRENGTH TO SUPPORT THE STEEL TO BE ERECTED BEFORE ERECTING STRUCTURAL STEEL.
- PROVIDE ONE SHOP COAT OF PRIMER (TT-F536) ON ALL STEEL EXCEPT FOR ITEMS TO BE USED UNDER BASE PLATES OR SPRAY FIREPROOFED. DO NOT PAINT PORTIONS EMBEDDED IN CONCRETE.
- FRAMING CONNECTIONS NOT DETAILED, OR CONNECTIONS THAT ARE MODIFIED FROM THOSE DETAILED, SHALL BE DESIGNED AND DETAIL THE END REACTION SHOWN ON THE PLAN. IF NO REACTION IS PROVIDED, DESIGN FOR 1/2 THE MAXIMUM UNIFORM LOAD PER AISC MANUAL FOR STEEL CONSTRUCTION. SUBMIT SIGNED AND SEALED CALCULATIONS.
- ALL WELD OPERATORS SHALL BE CURRENTLY AWS QUALIFIED.
- SHOP CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED. USE 1/8" FILLET WELD MINIMUM.
- FIELD CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED AS DETAILED. NO FIELD WELDING OF HOT DIPPED GALVANIZED MEMBERS WILL BE ALLOWED. USE 3/16" WELD MINIMUM.
- DURING THE ERECTION OF STEEL BEAMS AND DIAGONAL BRACING, ALL BOLTING AND FIELD WELDING SHALL BE COMPLETE BEFORE RELEASING HOISTING CABLES.
- SUBMIT FOR REVIEW SHOP DRAWINGS OF STEEL DETAILS PRIOR TO FABRICATING STRUCTURAL STEEL.
- ALL EXTERIOR ELEMENTS AND THOSE ELEMENTS NOTED TO BE GALVANIZED SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A102 AFTER SANDBLAST CLEANING PER SPECIFICATION. USE ASTM A305 BOLTS HOT DIPPED GALVANIZED WITH GALVANIZED HARDENED WASHERS AND GALVANIZED HEAVY HEX NUTS FOR BOLTING OF GALVANIZED ITEMS.
- STEEL COLUMNS, BASE PLATES AND ALL STEEL BELOW GRADE SHALL HAVE A MINIMUM 3" CONCRETE COVER PROTECTION.
- MEMBERS NOTED AS "CONTINUOUS" SHALL BE FULLY WELDED AT ALL BUTT SPLICES OR CONNECTIONS SHALL BE DETAILED TO PROVIDE CONTINUITY.

CONCRETE FORMWORK:

- SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.
- ALL FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED ACCORDING TO ACI 347, RECOMMENDED STANDARD PRACTICE FOR CONCRETE FORMWORK.
- RESPONSIBILITY: THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. ALL FORMS, SHORES, BACKSHORES, FALSEWORK, BRACING, AND OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS IMPOSED INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOADS, LATERAL LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- TOLERANCES: UNLESS SPECIFIED OTHERWISE, ALL TOLERANCES FOR CONCRETE FORMWORK SHALL CONFORM TO ACI STANDARD 117, STANDARD TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS. THE CONTRACTOR SHALL ENGAGE A LICENSED SURVEYOR TO VERIFY THAT WORK IS WITHIN SPECIFIED TOLERANCES UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE ENGINEER TO PROVIDE TOLERANCE CONTROL USING THE CONTRACTOR'S OWN FORCES PRIOR TO BEGINNING WORK.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED WHERE SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.
- PLUMBING SLEEVE SPACING SHALL BE THE LARGER OF THREE (3) DIAMETERS CENTER TO CENTER OF THE LARGER SLEEVE OR 6" CENTER BETWEEN SLEEVES. SUBMIT SLEEVE LOCATIONS AND SIZES TO ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
- PENETRATIONS SHALL NOT BE PERMITTED IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS WITHOUT THE WRITTEN REVIEW OF THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL SUBMIT DRAWINGS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW INDICATING ANY CONCENTRATIONS OF PIPES, OPENINGS OR PENETRATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS PRIOR TO CONCRETE POURS.

SLABS ON GRADE:

- ALL CONCRETE SLABS ON GRADE SHALL BE REINFORCED PER PLANS.
- ALL CONCRETE SLABS ON GRADE SHALL BE IN ACCORDANCE WITH "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (ACI 302).
- JOINTS SHALL BE PROVIDED IN ALL SLABS ON GRADE WHERE INDICATED ON DRAWINGS. CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE SUBJECTED TO ENGINEER'S APPROVAL.
- PROVIDE SAWCUT JOINTS IN ALL SIDEWALKS AT A MAXIMUM SPACING OF 5 FEET O.C. AND ISOLATION JOINTS AT A MAXIMUM SPACING OF 20 FEET APART.
- DEPTH OF SAWCUT JOINTS SHALL BE AS FOLLOWS: 4" & 6" SLABS = 1-1/2" AND 8" SLABS = 2". CUTTING SHOULD BE DONE AS SOON AS POSSIBLE AFTER THE CONCRETE HARDENS, NORMALLY WITHIN 8 HOURS. THE CONCRETE IS HARD ENOUGH WHEN THE BLADE DOES NOT DISLODGE AGGREGATE AND WHEN THE EDGES OF THE CUT DO NOT RAVE.
- CONCRETE SLABS SHALL BE SLOPED AS SHOWN ON THE DRAWINGS.

CAST-IN-PLACE CONCRETE:

- THE LATEST EDITION OF THE FOLLOWING ACI STANDARDS APPLY:
 ACI 318 (CODE) ACI 304 (PLACING)
 ACI 306 (WINTER CONCRETING) ACI 315 (DETAILING)
 ACI 308 (HOT WEATHER CONCRETING) ACI 347 (FORMWORK)
 ACI 311.1 (MAX PROPORTIONING) ACI 301 (SPECIFICATIONS)
- ALL CONCRETE SHALL BE NORMAL WEIGHT (148 PCF DRY DENSITY, MIN) WITH MIXES DESIGNED TO MEET THE FOLLOWING CRITERIA FOR USE IN VARIOUS ELEMENTS OF THE STRUCTURE:

STRUCTURAL ELEMENT	28-DAY COMPRESSIVE STRENGTH (PSI)	MAX. SIZE		SLUMP RANGE (IN)
		W/C	MAX. RATIO	
A. FOOTINGS	3000	3/4"	0.45	3-5
B. FOUNDATION WALLS	3000	3/4"	0.50	3-5
C. SLAB-ON-GRADE	3000	3/4"	0.45	3-5
D. ELUVIATED BEAMS	3000	3/4"	0.45	3-5

- CONCRETE SLUMP IS TAKEN AT POINT OF PLACEMENT INTO STRUCTURE.
- WATER REDUCER AND AIR ENTRAINING AGENTS SHALL BE INCLUDED IN DESIGN MIXES. SUPERPLASTICIZERS MAY BE USED AT THE CONTRACTOR'S OPTION.
- A CONCRETE MIX DESIGN FOR EACH UNIQUE COMBINATION OF STRENGTH, COARSE AGGREGATE GRADATION AND WATER CEMENT RATIO SPECIFIED SHALL BE PREPARED BY THE SUPPLIER OR AN INDEPENDENT TESTING LABORATORY AND BE SUBMITTED FOR REVIEW PRIOR TO CASTING ANY CONCRETE MIXES THAT WILL BE TRANSPORTED AT THE PROJECT SITE BY PUMPING SHALL BE SPECIFICALLY DESIGNED FOR PUMPING.
- SLABS ON GRADE: UNLESS NOTED OTHERWISE, CONCRETE SLABS ON GRADE SHALL BE A MINIMUM OF 4" THICK, REINFORCED WITH 8# W/ 4#X4' 4 WPK PLACED 1-1/2" CLEAR FROM THE TOP OF THE SLAB. AS REINFORCING SHALL BE PLACED OVER PROPERLY COMPACTED EARTH.
- CONCRETE REINFORCING: UNLESS NOTED OTHERWISE, CONCRETE BEAMS SHALL BE A MINIMUM OF 1" DEEP BY THE SUPPORTING WALL WIDTH, REINFORCED WITH 2 # CONTINUOUS TOP AND BOTTOM AND #3 TIES AT 24" O.C.

TERMITE PROTECTION:

- A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR PERSISTENT AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 104.2.6
- CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4
- IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FBC 1503.4.4
- TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION, BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6" EXCEPT: PAINT AND DECORATIVE CEMENTIOUS FINISHES LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL. FBC 1503.4.6
- INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1916.1.1
- SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1916.1.2
- BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1916.1.3
- MINIMUM 1/8" VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1916.1.4
- CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC 1916.1.5
- SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1916.1.6
- AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING CONDENSATE PAN AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED SHALL BE RETREATED. FBC 1916.1.6
- ALL BUILDINGS ARE REQUIRED TO HAVE PER CONSTRUCTION TREATMENT. FBC 1916.1.7
- A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES". FBC 1916.1.7
- AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAIRS, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 2303.1.3
- NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4

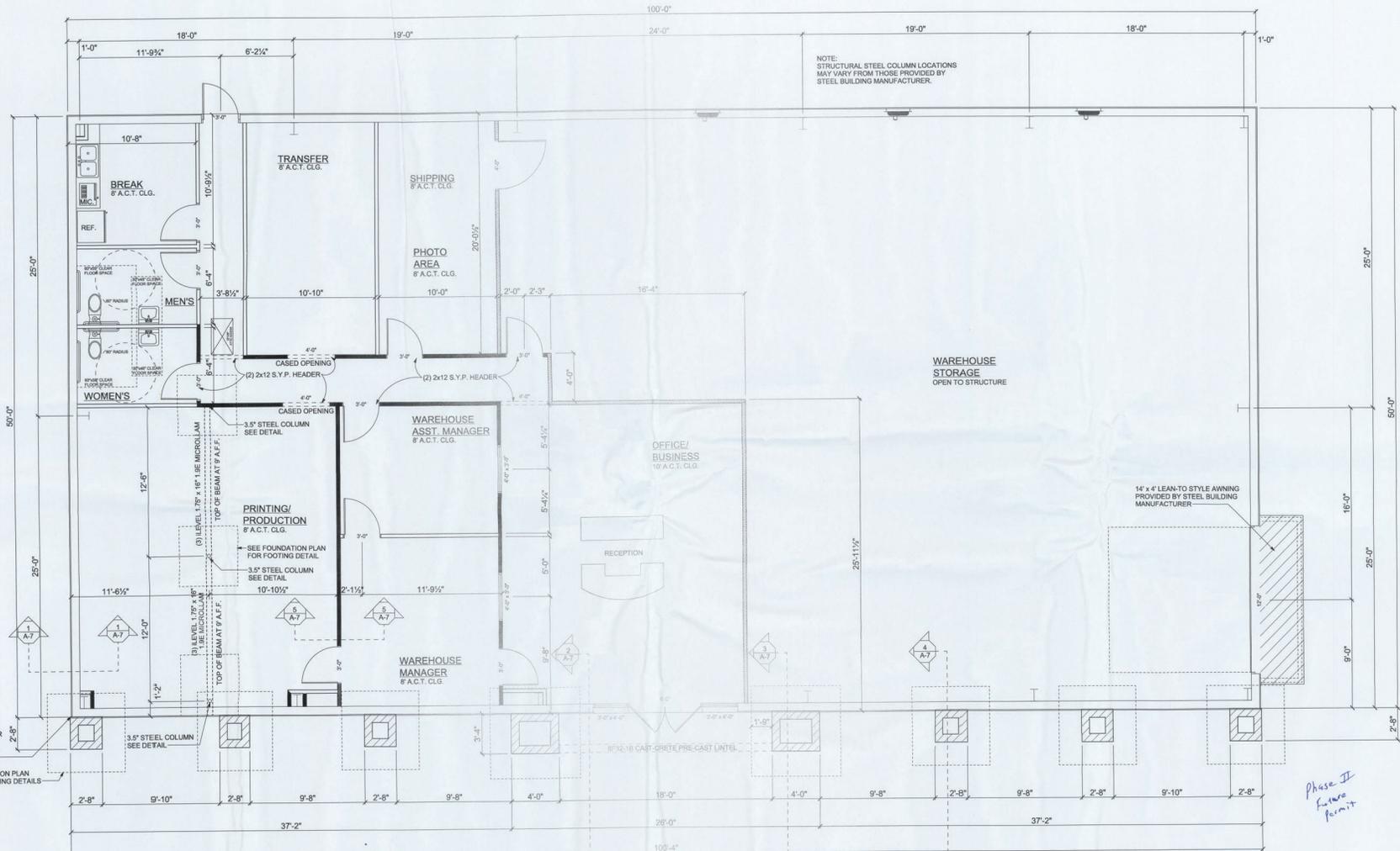
MISCELLANEOUS:

- CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- CONTRACTOR TO COORDINATE EXACT SIZE AND LOCATION OF CONCRETE EQUIPMENT PADS, PIPES, PIPE EMBEDEDMENT, PIPE SUPPORTS, CHASES, AND OTHER MISCELLANEOUS ITEMS TO BE PLACED PRIOR TO POURING CONCRETE, WITH MECHANICAL AND ELECTRICAL DRAWINGS AND MANUFACTURERS RECOMMENDED SHOP DRAWINGS.
- NO CONDUTTS, PIPES, SLEEVES OR ANY OTHER ITEM SHALL BE EMBEDDED IN CONCRETE ALONG, THROUGH OR UNDER ANY BEAM, COLUMN, FOOTING, GRADE BEAM, SLAB, WALL OR ANY OTHER STRUCTURAL MEMBER WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- ALL PHASES OF CONCRETE CONSTRUCTION INCLUDING MATERIALS, FOUNDATIONS, CAST-IN-PLACE AND PRECAST CONCRETE, REINFORCING STEEL, MASONRY FORM WORK AND ALL OTHER RELATED PROCEDURES AND MATERIALS SHALL COMPLY WITH THE MOST STRINGENT ALLOWED TOLERANCES OF ACI-301 AND ACI-117 STANDARDS. (LATEST VERSION)

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION	CERTIFICATE OF AUTHORIZATION	NO. 28022	DRAWN BY:	TM	CES PROJECT NO.:
											2013-015
									P.O. BOX 970 LAKE CITY, FL 32056 PHONE: 386.754.4085	APPROVED BY: BC	BRETT A. CREWS, P.E. 65592

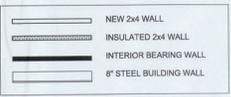
MONSTA CLOTHING

GENERAL NOTES



NOTE:
CONTRACTOR SHALL COORDINATE
WITH STEEL BUILDING MANUFACTURER
TO ALLOW 1/2" AIR SPACE BETWEEN
MASONRY COLUMNS AND THE HIGH
RIB OF THE METAL WALL PANELS

MULTIPLE MEMBER CONNECTIONS
FOR 2 MEMBER BEAMS USE MIN. 3 ROWS OF 100 3"
NAILS @ 12" O.C.
FOR 3 MEMBER BEAMS USE MIN. 3 ROWS OF 100 3"
NAILS @ 12" O.C. BOTH SIDES



FLOOR PLAN
SCALE: 1/4" = 1'-0"

AREA SUMMARY	
WAREHOUSE/STORAGE	2,630 SF
OFFICE BUSINESS	543 SF
PRINTING AND PRODUCTION	1,827 SF
TOTAL HABITABLE AREA	5,000 SF
ADDITIONAL ATTIC STORAGE	1,128 SF

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



CERTIFICATE OF AUTHORIZATION
NO. 28022
P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085



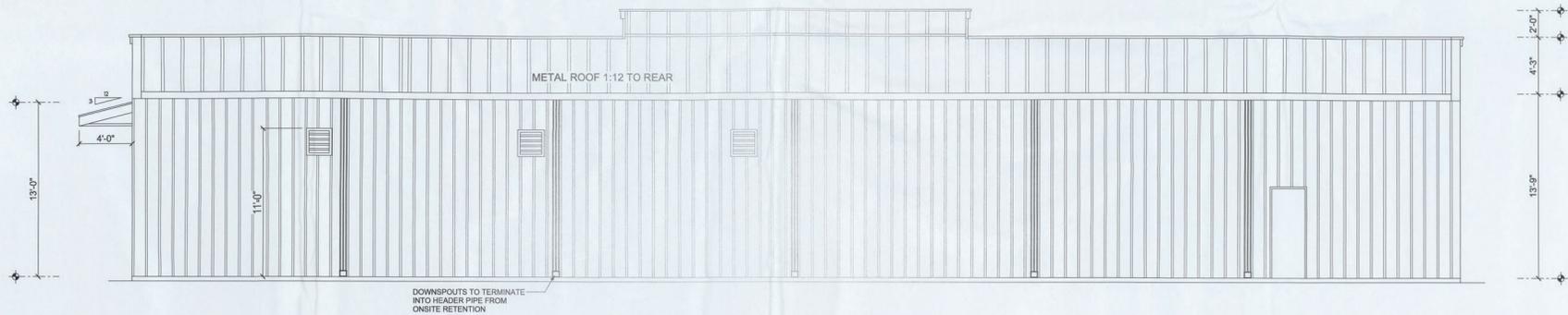
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APPROVED BY:
BC

MONSTA CLOTHING
FLOOR LAYOUT

CES PROJECT NO.:
2013-015
SHEET:
A-2



FRONT ELEVATION
SCALE: 1/4" = 1'-0"



REAR ELEVATION
SCALE: 1/4" = 1'-0"

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



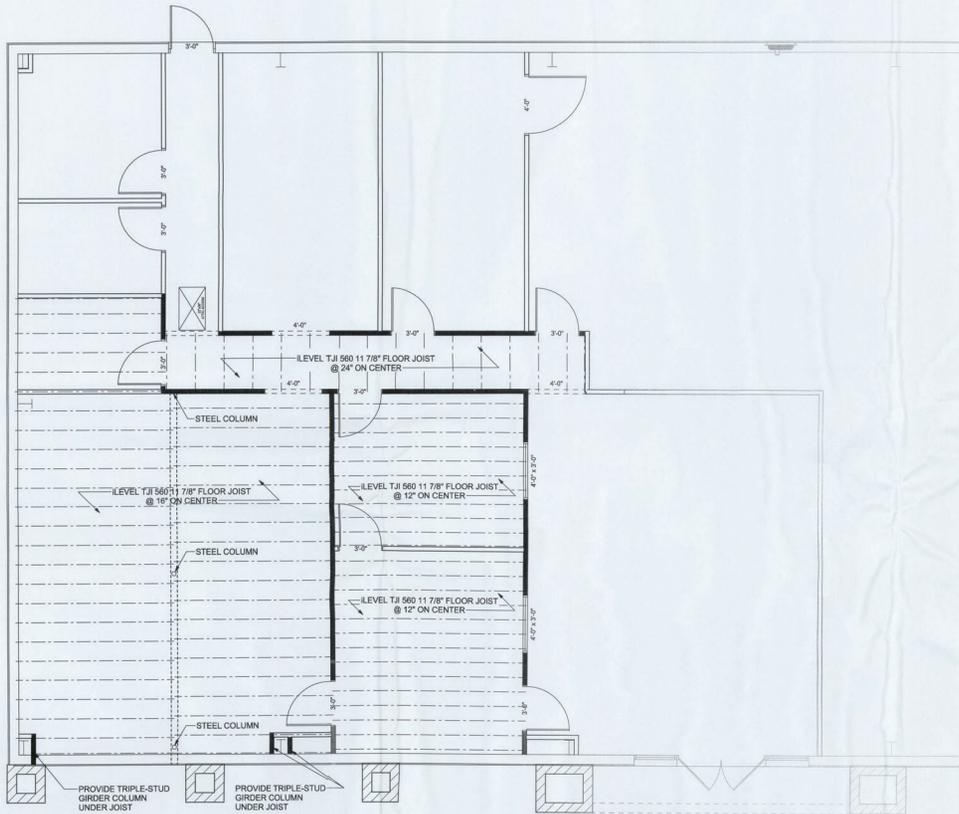
CERTIFICATE OF AUTHORIZATION
NO. 28022
P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085



DRAWN BY:
TM
APPROVED BY:
BC

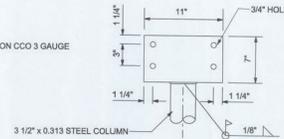
MONSTA CLOTHING
ELEVATIONS
FRONT AND REAR

CES PROJECT NO.:
2013-015
SHEET:
A-3



JOIST LAYOUT
SCALE: 1/4" = 1'-0"

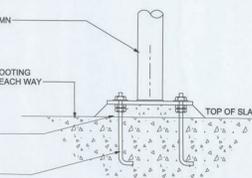
NOTE:
MODIFIED SIMPSON CCO 3 GAUGE
W1 = 5 1/4"
W2 = N/A
H1 = 7"
L = 11"



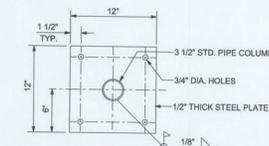
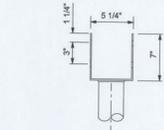
3 1/2" x 0.313 STEEL COLUMN

60"x60"x14" DEEP CONC. FOOTING
REINFORCED WITH 5-#6'S EACH WAY

1 1/2" NON
SHRINK GROUT
4-5/8" DIA.
ANCHOR BOLTS
6" EMBEDMENT
W/ LEVELLING NUTS



NOTE:
FASTEN TO GIRDER/BEAM WITH
4-#6 GALVANIZED CARRIAGE BOLTS



STEEL COLUMN DETAILS

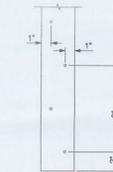
SCALE: 1 1/2" = 1'-0"

STRUCTURAL STEEL

- S1 GENERAL CONTRACTOR SHALL ENGAGE A CERTIFIED TESTING AGENCY TO PERFORM INDUSTRY STANDARD INSPECTIONS TO ENSURE CONFORMANCE WITH PLANS. SUBMIT REPORT TO A/E.
- S2 STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL BUILDINGS", LATEST EDITION.
- S3 MATERIAL
BEAMS & CHANNELS ASTM A572, GRADE 50
STEEL TUBING ASTM A500, GRADE B
PLATES ASTM A36
BOLTS ASTM A325
ANCHOR BOLTS ASTM A36 THREADED ROD - 6" MIN. EMBEDMENT WITH 2" HOOK
EXPANSION ANCHORS RAMSET TREHEAD TRUBOLT OR APPROVED EQUIVALENT
NON-SHRINK GROUT 5000 PSI
- S4 BRACE AND MAINTAIN ALL STEEL IN ALIGNMENT UNTIL OTHER PARTS OF CONSTRUCTION NECESSARY FOR PERMANENT SUPPORT ARE COMPLETED. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING TEMPORARY SHORING AS REQUIRED FOR THE STABILITY OF THE STEEL FRAME UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND BUILDING IS ENCLOSED.
- S5 ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF "THE STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY. WELDING ELECTRODES SHALL BE E70XX-LOW HYDROGEN FOR SHIELD AND METAL ARC WELDING.
- S6 PROVIDE NUT & WASHER FOR ALL BOLTS AND ANCHOR BOLTS
- S7 ALL WELDED CONNECTIONS SHALL BE 1/4" FILLET ALL AROUND. UNO. ALL BOLTED CONNECTIONS SHALL BE 1/2" DIA. A325 BOLTS, UNO.

SHOP PAINTING: SHOP PAINTING AND SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE CODE OF STANDARD PRACTICE OF AISC.

TOUCH-UP PAINTING: AFTER JOIST INSTALLATION, PAINT FIELD BOLT HEADS AND NUTS, AND WELDED AREAS, ABRASED OR RUSTY SURFACES ON JOISTS AND STEEL SUPPORTING MEMBERS. WIRE BRUSH SURFACES AND CLEAN WITH SOLVENT BEFORE PAINTING. USE SAME TYPE OF PAINT AS USED FOR SHOP PAINTING.



END (TOP OR BOTTOM)

WOODEN STUD GIRDER COLUMN DETAIL

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085



Brett A. Crews, P.E. 65592

DRAWN BY:

TM

APPROVED BY:

BC

MONSTA CLOTHING

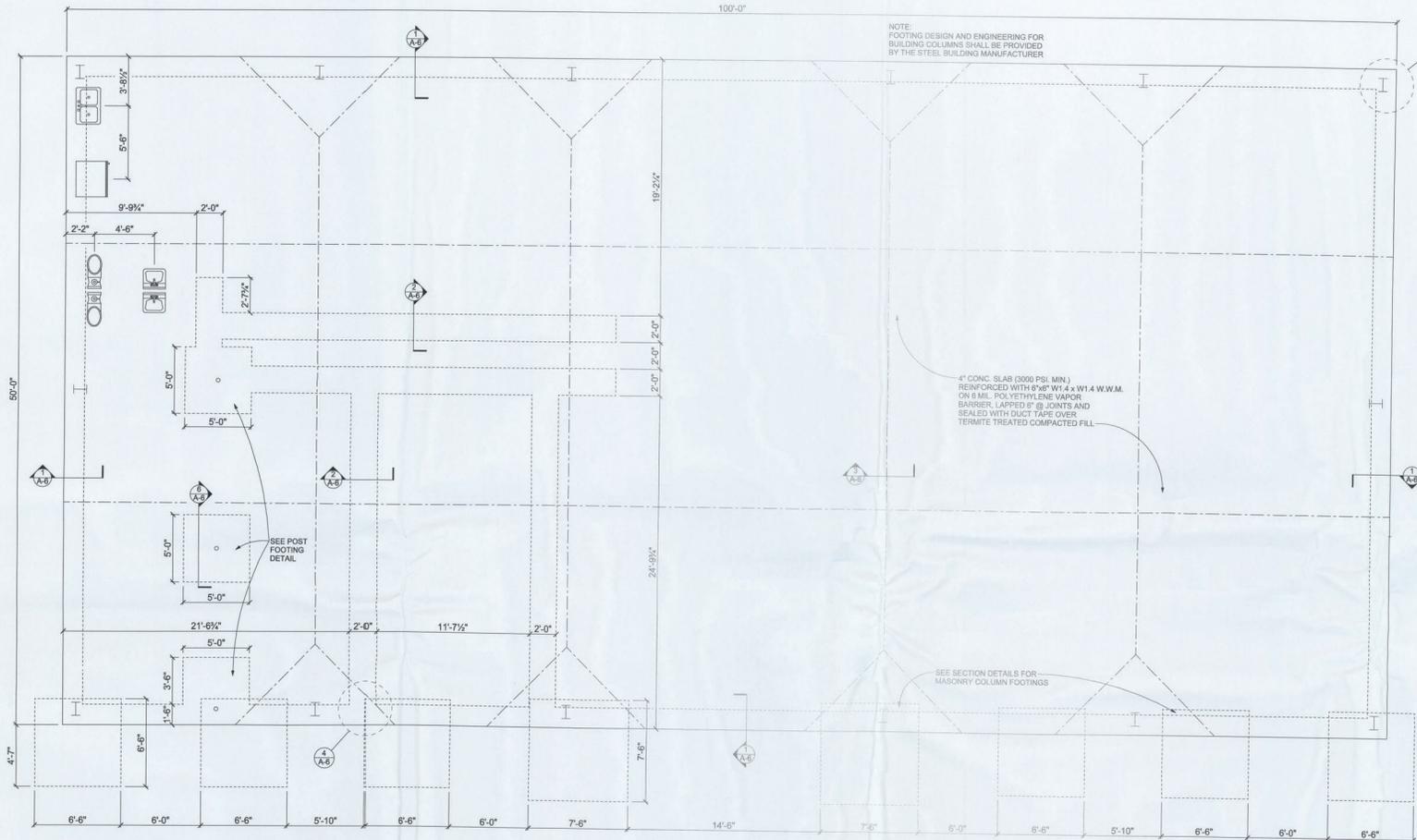
UPPER STORAGE PLAN

CES PROJECT NO.:

2013-015

SHEET:

A-5



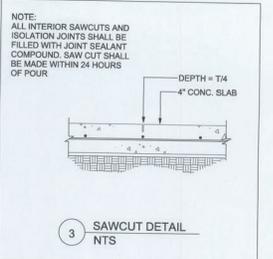
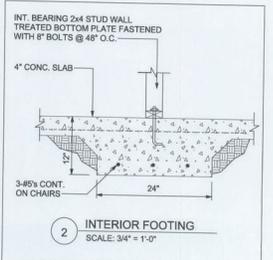
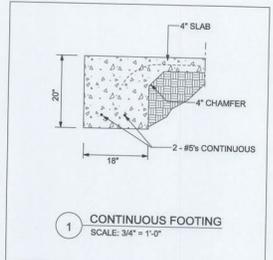
FOUNDATION LAYOUT
SCALE: 1/4" = 1'-0"

NOTE:
FOOTING DESIGN AND ENGINEERING FOR
BUILDING COLUMNS SHALL BE PROVIDED
BY THE STEEL BUILDING MANUFACTURER

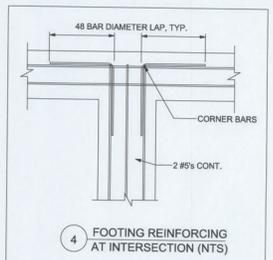
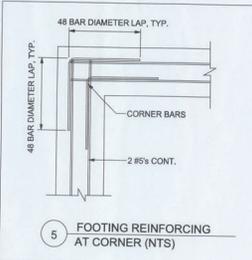
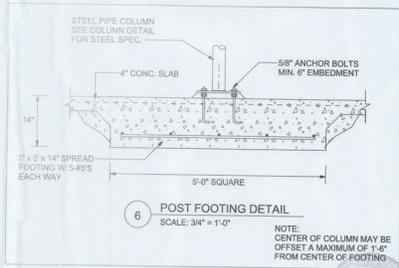
4" CONC. SLAB (3000 PSI MIN.)
REINFORCED WITH #18" WF. & W1.4 W.W.M.
ON 6 MIL. POLYETHYLENE VAPOR
BARRIER, LAPPED 6" JOINTS AND
SEALED WITH DUCT TAPE OVER
TERMITE TREATED COMPACTED FILL

SEE SECTION DETAILS FOR
MASONRY COLUMN FOOTINGS

SEE POST
FOOTING
DETAIL



NOTE:
ALL INTERIOR SAWCUTS AND
ISOLATION JOINTS SHALL BE
FILLED WITH JOINT SEALANT
COMPOUND. SAW CUT SHALL
BE MADE WITHIN 24 HOURS
OF POUR



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



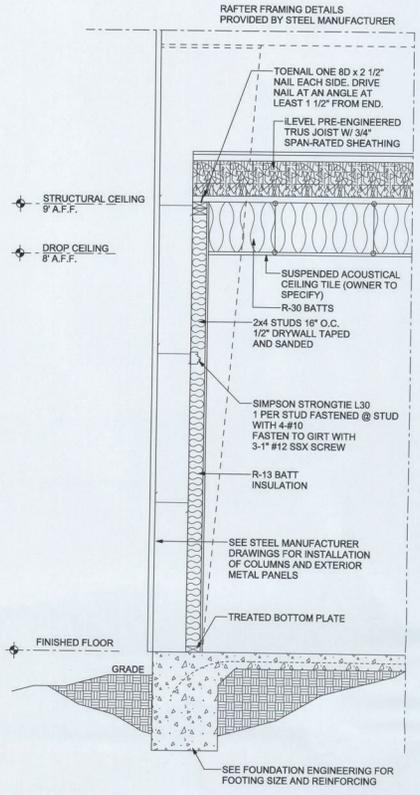
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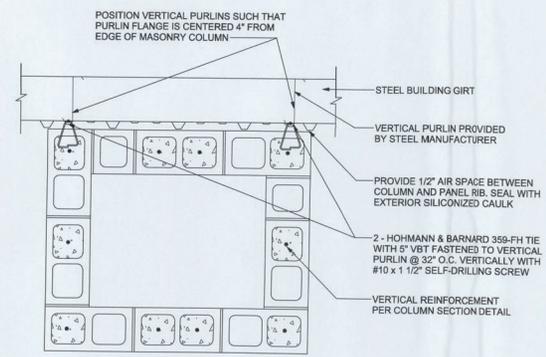
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APPROVED BY:
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MONSTA CLOTHING
FOUNDATION PLAN

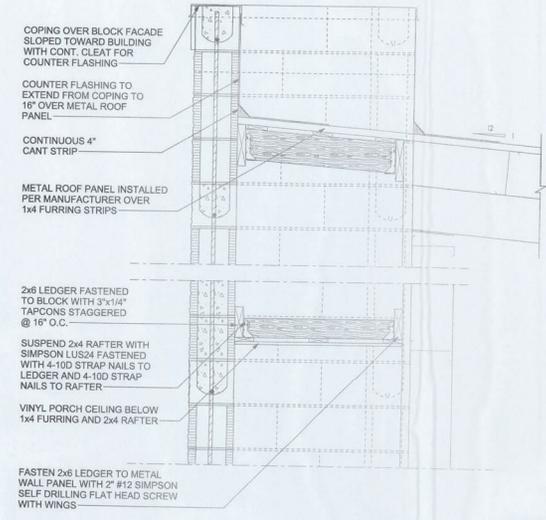
CES PROJECT NO.:
2013-015
SHEET:
A-6



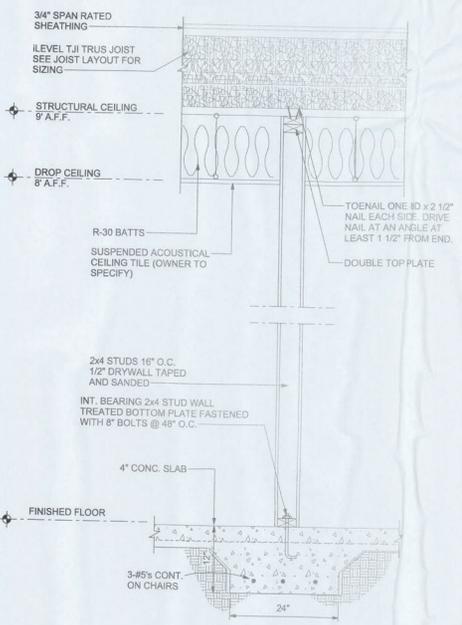
1 EXTERIOR SIDE WALL
SCALE: 3/4" = 1'-0"



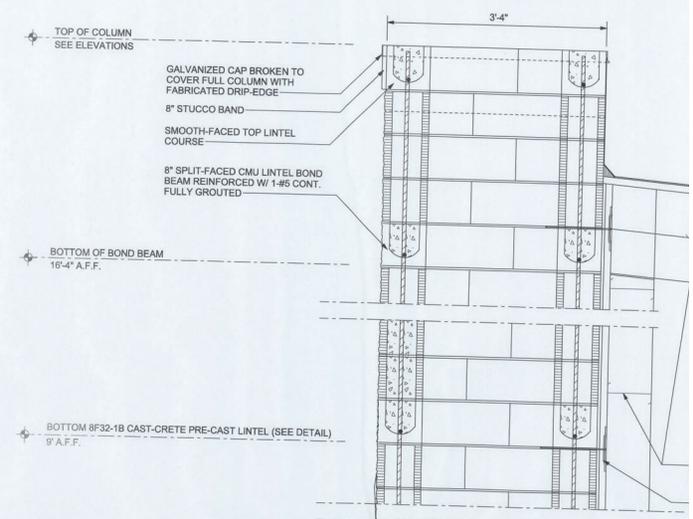
6 MASONRY ANCHORING DETAIL
SCALE: 1" = 1'-0"



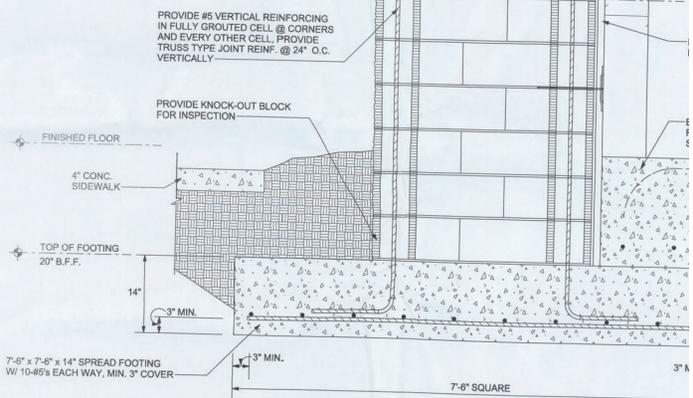
2 ROOF AND CEILING SECTION FRONT FACADE
SCALE: 1" = 1'-0"



5 INTERIOR BEARING WALL
SCALE: 1" = 1'-0"



3 COLUMN SECTION FRONT FACADE
SCALE: 1" = 1'-0"



4 SMALL COLUMN SECTION DETAIL
SCALE: 1" = 1'-0"

REVISIONS					
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LAKE CITY, FL 32056
PHONE: 386.754.4085



DRAWN BY:
TM
APPROVED BY:
BC

MONSTA CLOTHII
SECTIONS AND DET

PLUMBING SPECIFICATIONS

A. It is the intent of these specifications to define the work and materials typically installed by a Plumbing Contractor. However, it is not intended to define a subcontract between the Plumbing Contractor and General. The General Contractor is responsible for the entire project and any questions regarding scope of work shall be directed to the General Contractor.

C. Work shall include all labor, materials, fixtures, equipment, tools and service necessary for installation, testing and adjusting of all mechanical systems to be furnished and installed in accordance with the Drawings, Specifications, and any Addenda thereto.

D. Drawings and Specifications shall be understood to cover, according to their intent and bearing, complete mechanical systems to be furnished and installed in accordance with the Specifications and not shown shall be performed as though mentioned in both.

E. Minor items and accessories not specifically mentioned in the Specifications shall be performed as though mentioned in both.

F. Before submitting a bid, the Plumbing Contractor is to coordinate with the utility company to ascertain, in writing, the location and depth of all existing underground utilities. The utility company shall be furnished and performed by the Plumbing Contractor.

G. All work shall be performed in accordance with Standard Plumbing Code and review civil drawings to coordinate his work with applicable local and State Government regulations and codes of local state and Federal Governments having jurisdiction, and each contractor and subcontractor shall be responsible for such compliance.

H. Fees for permits, inspections, patent use, royalties, shall be paid by the contractor. Secure approval of the installation.

I. Furnish all equipment and personnel and conduct all tests required to secure approval of the installation.

J. Any repairs or changes required to secure the approval of the installation shall be done at no additional expense to the Owner.

K. All work shall be installed in accordance with the appropriate codes and satisfy the local inspector having jurisdiction.

L. Furnish all equipment and personnel and conduct all tests required to secure approval of the installation.

M. Any repairs or changes required to secure the approval of the installation shall be done at no additional expense to the Owner.

N. Upon completion of each part of the mechanical system, the contractor shall demonstrate to the Engineer that each item on this system is installed in proper working order, safe, reliable, controls, etc., and that all are in proper working order.

O. A set of "red-lined" mechanical drawings shall be carefully maintained at the job site. Actual conditions are to be noted on the drawings in red ink. The contractor shall continuously show locations and routings of piping, ducts, grilles, equipment, valves, and any equipment specified in the drawings and shall be paid by subcontractor.

P. Equipment and materials shall be new and of good or excess specification requirements.

Q. All product shall be current model for which replacement parts are available.

R. Acceptable manufacturers are listed, additional manufacturers may request approval of materials prior to accepting or requesting an alternate.

S. All products to be installed shall conform to applicable OSHA regulations.

T. Shop drawings and product data shall be submitted on all equipment, fixtures, etc., and all submittals must be made at same time.

U. The contractor shall include all equipment, fixtures, etc., and submittals must be made at same time.

V. The Engineer will review one submittal and one resubmittal; subsequent resubmittals may require a separate OSHA regulation.

W. Shop drawings and product data shall be submitted on all equipment, fixtures, etc., and all submittals must be made at same time.

X. Job conditions shall be inspected to determine prior to bidding in the following manner:

1. Site visit to determine:
 - a. Existing conditions.
 - b. How and where materials will be delivered and stored.
 - c. Special problems encountered during construction.
2. Examine all Contract Drawings and Specifications to determine:
 - a. Type of construction to be used.
 - b. How construction or work will affect the work of this Section.
 - c. Nature and extent of work of other trades.
 - d. Failure to determine existing conditions or nature of construction will not be considered as basis for granting additional compensation.

O. Installation

1. Contract Drawings show the arrangements and sizes of principal apparatus and devices to be provided under Contract and connection thereto. These shall be allowed as closely as actual building construction will permit.

2. Dimensions of work as indicated on Plans are not guaranteed to be as-built dimensions.

3. No measurements shall be scaled from Drawings and used as definite dimensions for layout or fitting work in place.

4. Layout of equipment, as shown on the plans, shall be checked and exact location determined by dimension if equipment approved by the Engineer.

5. Consult the Drawings for all dimensions, locations of structures and structural member, foundations, etc.

6. Do not make final layouts until shop or equipment drawings are approved and job conditions verified.

R. Excavation and Backfill:

1. Plumbing Contractor shall coordinate with General Contractor to determine the extent of his work regarding excavation and backfill.

S. Rough-in:

1. Whether or not such equipment is furnished by this Contractor or by Owner.

2. Determine in advance the location and size of all openings and chases and necessary for proper installation of all work and have openings and chases provided during construction.

3. Install all inserts for hangers and supports of mechanical work and equipment work as general construction progresses.

4. Rough-in openings in masonry or stud walls shall be cut, not broken or chiseled.

5. Sleeves shall be required at all points where piping passes through concrete walls, slabs or masonry walls; sleeves installed below grade or where subject to high water conditions shall be installed watertight.

T. Coordination:

1. Work shall be coordinated between all Contractors, Subcontractors, installers, Suppliers, Trades, etc. to:

- a. Install a readily fitted installation.
- b. Determine the nature and extent of the work of others.
- c. Eliminate interferences.
- d. Maintain maximum headroom and clearances.

2. Any interference which develops or is foreseen and cannot be resolved by the affected trades, etc. shall be handled as follows:

- a. Cease installation of that portion of the work which is in conflict as no additional compensation will be allowed for any relocation, etc. or other work which only on other portions of the work which are not in conflict.
- b. Notify the Engineer immediately.
- c. Engineer's decision shall be final as to any relocation, rerouting, removal, etc.
- d. No additional compensation will be allowed for removal, relocation, repairs or changes required by interferences.

U. Clear away all debris, surplus materials, etc., resulting from work on operations, leaving job area or equipment in clean first-class condition.

V. Where factory finish is provided on equipment, all matted or damaged surfaces shall be touched-up or refinished hereunder as approved.

W. All plumbing fixtures shall be thoroughly cleaned of all plaster, stickers, rust stains, and other foreign matter, and be left ready for use.

X. Surfaces of all floor drains, casework and other equipment shall be cleaned and left in first-class condition.

CHLORINATION OF DOMESTIC WATER LINES

A. Disinfection of all water piping which shall carry potable water and any other piping connected thereto which is not separated by a backflow preventer.

B. Disinfection shall be chlorine, either in the form of hypochlorite solution or in the form of compressed gas applied through an approved chlorinator.

C. After completion of all tests, replacement, and repairs, all water supply systems shall be thoroughly flushed with water to remove sediment and/or chlorine.

D. Begin disinfection only after flushing system.

E. The system shall be filled with a solution containing 50 parts per million available chlorine and allowed to stand for twenty-four hours, or as required by local authorities, whichever is greater.

F. During Chlorination all valves and equipment shall be operated to insure that chlorine reaches all parts of the system.

G. Following Chlorination all treated water shall be flushed from the system through its outlets until the quality of water returned is comparable with the quality of the public water supply and satisfactory to the public health authority having jurisdiction.

H. Disinfection and flushing shall be repeated if complete tank only over a period of three days show that water quality is not being maintained.

I. Samples shall be taken from tap located and installed in such a manner that they will not contribute any contamination.

J. Samples shall not be drawn from hydrants or through unfiltered hose.

K. If disinfection and flushing has been repeated three times and water quality cannot be maintained, the Engineer shall have the authority to discontinue the assembly of piping as the shall deem necessary to determine the cause of contamination.

L. Any disassembly, cleaning or repair shall be at no additional expense to the Owner.

2. Disinfection, flushing and testing shall be repeated upon reassembly of the piping.

PIPE AND FITTINGS

A. Refer to "PIPING SCHEDULE" on drawings.

B. Any manufacturer engaged in the production of pipe, fittings and associated materials and materials shall be inspected and only that material meet or exceed the ASTM designation for that material shall be acceptable.

C. Inspection for Underdrain Piping:

1. Examine areas to receive underdrain piping for:
 - a. Complete excavation to elevations and slopes indicated.
 - b. Obstructions which would interfere with drainage system installation.
2. Begin work only when conditions are satisfactory.

D. Inspection for Above-Ground Piping:

1. Examine areas to receive piping for:
 - a. Obstructions.
 - b. Work to be done prior to other construction.
2. Begin work only when conditions are corrected satisfactorily.

E. Installation of Underground Piping:

1. Excavation:
 - a. Excavate trenches of sufficient width to permit installation of pipe.
 - b. Sheet and brace trenches as necessary to protect workmen and adjacent structures.
 - c. Comply with current OSHA standards.
 - d. Final grading of trench bottoms by hand tools; carry machine excavation only to such depth that soil bearing for pipes will be disturbed.
 - e. Grade bottom of trenches evenly to insure uniform bearing for all piping.
 - f. Cut holes as necessary for post marking.
 - g. Keep trenches free from water while construction is in progress.
 - h. Use surveyor's level to establish elevations and grades.
 - i. Machine excavation shall be held a sufficient distance from foundations and footings.
 - j. Provide and maintain barricades and temporary bridges around excavations as required for safety.
 - k. Water lines may be trench above sanitary lines in same trench if they are 12 inches or more above the sanitary line.
 - l. Minimum burial depth for water piping shall be 24 inches.
 - m. Exact horizontal grade, 1/4 inch per foot minimum.
 - n. Install same type material specifying for the main building to 8 feet outside building.
2. Backfill:
 - a. Backfill for all sewer lines shall be placed in accordance with manufacturer's printed instruction.
 - b. Backfill trenches only after piping has been inspected.
 - c. The backfill below sanded areas and walls shall be brought to within 6 inches of finished grade, the remaining six inches shall be backfilled with clean topsoil.
 - d. The backfill below sanded areas and walls shall be brought to within 6 inches of finished grade, the remaining six inches shall be backfilled with clean topsoil.
 - e. All voids and place any additional fill material from off the site as may be required for backfill.

F. Installation of Above-Ground Piping:

1. Pipe supports:
 - a. Pipe shall be adequately supported during construction with blocking or slings to prevent injury to personnel or damage to equipment or materials.
 - b. Run extended piping true and level.
 - c. Run vertical exposed piping plumb.
 - d. Extended piping shall be supported with all line elbows and bends as possible.
 - e. Group piping wherever practical at common elevations.
 - f. Install concealed pipes close to building's structure to keep furring to a minimum.
 - g. Slope water piping 1 inch in 40 feet and arrange to drain all low points.
 - h. On closed systems, equip low points with 3/4 inch drain valves and hose nipples.

COPPER PIPE

A. Domestic Water Supply Above Grade or Slab

1. Type I, Hard Copper
2. Joints:
 - a. Solder using lead-free solder and non-corrosive flux
3. Fittings:
 - a. Wrought copper or cast brass
 - b. Solder using Silver Solder or "58-Fos"
4. Joints:
 - a. Solder using Silver Solder or "58-Fos"
5. Fittings:
 - a. Wrought copper or cast brass

B. Plastic Pipe and Fittings

1. Vent piping (Above grade)
2. Piping shall be PVC
3. Polyvinyl Chloride (PVC) - ASTM D-1784-40
4. Schedule 40
5. Type I, Grade 1
6. Pipe shall bear NSF seal and ASTM designation
7. Joints:
 - a. Bonded joints using adhesive per manufacturer's recommendations
8. Fittings:
 - a. PVC - ASTM D-2965-69

PLASTIC PIPE AND FITTINGS

A. Vent piping (Above grade)

1. Piping shall be PVC
2. Polyvinyl Chloride (PVC) - ASTM D-1784-40
3. Schedule 40
4. Type I, Grade 1
5. Pipe shall bear NSF seal and ASTM designation
6. Joints:
 - a. Bonded joints using adhesive per manufacturer's recommendations
7. Fittings:
 - a. PVC - ASTM D-2965-69

TRAPS

A. General

1. All fixtures shall be trapped according to the Standard Plumbing Code.
2. All traps shall be the same size as the pipe in which they are installed or as sized on the Drawings.
3. All traps above grade shall have a clean-out plug in the bottom of the trap.
4. All traps below grade shall be cast iron.
5. No trap below grade shall be less than 2 inches.
6. No fixture shall be double trapped.

SHOCK ABSORBERS

1. Furnish and install shock absorbers on all domestic water piping as shown on the drawings, and/or specified in this section.

1. Water
2. Steam

C. Description

1. Heavy duty casting
2. Minimum burst pressure - 4500 psig.
3. Heated below with built in stop.
4. Operating temperature 100 to 300 degrees F.
5. Permanently sealed charge of non-combustible gas.
6. All stainless steel.
7. Designed and built in accordance with plumbing and drawing standard PD-41201.

D. Model Numbers (2um numbers used for reference only)

1. SSS - MODEL 1250 - 1 - 1"
2. SSS - MODEL 1250 - B - 3/4"
3. SSS - MODEL 1250 - C - 1"
4. SSS - MODEL 1250 - D - 1"
5. SSS - MODEL 1250 - E - 1"
6. SSS - MODEL 1250 - F - 1"

PIPE HANGERS AND SUPPORTS

A. All piping shall be supported by pipe hangers, clamps, clips or supports as specified in this Section.

B. All pipe hangers shall have a minimum of 1/2 inches of vertical adjustment by using turnbuckles and/or threaded rods.

C. All pipe hangers shall be positively secured by a locknut or set screw.

D. Hangers shall support the pipe size for which they are manufactured.

E. Material

1. Galvalume
2. Cast Iron
3. Steel

F. All pipe hangers, clamps, clips or supports shall be:

1. Galvalume
2. Cast Iron
3. Steel

G. Pipe hangers in direct contact with copper shall be copper or lead plated, or of an insulative dielectric material.

H. All piping shall be supported from structural building members, i.e. beam, columns, joists, rafters, floor joists, etc.

I. Piping shall not be supported from ceiling tile or grills, conduit, mechanical equipment, ductwork or non-structural steel.

J. Perforated strapping may be used only for piping 3/4 inch or smaller and only when concealed in walls or ceilings.

K. Hangers for piping run flush along the walls shall be stamped steel straps similar to conduit straps for pipe sizes two(2) inches and smaller.

L. Hangers for piping not run along walls shall be die-cast zinc hangers with threaded rod supports for all piping over 3/4 inch.

Vertical runs of piping not over 1/2 inch high shall be supported by hangers placed not over one foot from above connecting horizontal run.

Hangers shall be placed in said prevent sag and permit proper drainage.

Table shall not be placed above them the maximum distances shown on the Pipe Size - Max. Span - Ft.

1/2 and 3/4	8
1 and 1 1/2	10
2 and 2 1/2	12
3 and 4	14
4 and 5	16

K. Concentrations of valves and fittings will require closer spacing.

L. Hanger connections to valves and fittings will require closer spacing.

M. Pipe hangers shall be attached to structural steel by heavy steel strap.

N. The backfill below sanded areas and walls shall be brought to within 6 inches of finished grade, the remaining six inches shall be backfilled with clean topsoil.

O. The backfill below sanded areas and walls shall be brought to within 6 inches of finished grade, the remaining six inches shall be backfilled with clean topsoil.

UNIONS

A. Size

1. All unions shall be the same size as the line in which they are installed unless noted other wise.

B. Location

1. Unions shall be located between the shut-off valve and each of the following:
 - a. Inlet and outlet to all water heaters
 - b. Water closets
 - c. Water coolers
 - d. Water closets and toilets
 - e. Inlet and outlet of cooling coil
 - f. Inlet and outlet of radiators
2. Where final future connection is made by compression-type fittings, unions shall not be required.

C. This exception does not apply to water heater.

D. Acceptable Manufacturers

1. Crane
2. Vogt
3. Jost
4. Bostrom
5. Unions for 2-1/2 inches and smaller copper
6. Brass ground joints, brass body
7. Iron body

E. Unions to threaded to match the system in which they are installed

F. Unions in locations where access can be used on each half of the union with enough clearance for at least 180 degree rotation on a 90 degree elbow.

VALVES, COCKS AND FAUCETS

A. Hot and cold water (hand-operated valve)

1. Shut-off valves above grade
2. Shut-off valves below grade
3. Bronze Gate Valve
4. Bronze Gate Valve
5. Solder using Silver Solder or "58-Fos"
6. Drain valves
7. Bronze Gate Valves

B. Acceptable Manufacturers

1. Crane
2. Vogt
3. Jost
4. Bostrom
5. Unions for 2-1/2 inches and smaller copper
6. Brass ground joints, brass body
7. Iron body

PLASTIC PIPE AND FITTINGS

A. Vent piping (Above grade)

1. Piping shall be PVC
2. Polyvinyl Chloride (PVC) - ASTM D-1784-40
3. Schedule 40
4. Type I, Grade 1
5. Pipe shall bear NSF seal and ASTM designation
6. Joints:
 - a. Bonded joints using adhesive per manufacturer's recommendations
7. Fittings:
 - a. PVC - ASTM D-2965-69

TRAPS

A. General

1. All fixtures shall be trapped according to the Standard Plumbing Code.
2. All traps shall be the same size as the pipe in which they are installed or as sized on the Drawings.
3. All traps above grade shall have a clean-out plug in the bottom of the trap.
4. All traps below grade shall be cast iron.
5. No trap below grade shall be less than 2 inches.
6. No fixture shall be double trapped.

SHOCK ABSORBERS

1. Furnish and install shock absorbers on all domestic water piping as shown on the drawings, and/or specified in this section.

1. Water
2. Steam

C. Description

1. Heavy duty casting
2. Minimum burst pressure - 4500 psig.
3. Heated below with built in stop.
4. Operating temperature 100 to 300 degrees F.
5. Permanently sealed charge of non-combustible gas.
6. All stainless steel.
7. Designed and built in accordance with plumbing and drawing standard PD-41201.

D. Model Numbers (2um numbers used for reference only)

1. SSS - MODEL 1250 - 1 - 1"
2. SSS - MODEL 1250 - B - 3/4"
3. SSS - MODEL 1250 - C - 1"
4. SSS - MODEL 1250 - D - 1"
5. SSS - MODEL 1250 - E - 1"
6. SSS - MODEL 1250 - F - 1"

INSULATION

A. Provide piping insulation on all piping designated on the "Piping Schedule" shown on Drawings and per Florida Energy Code, Min R4 per inch.

B. Insulation shall be applied to the following:

1. Johns-Manville Fiberglas Insulation
2. Johns-Manville Fiberglas Insulation
3. Johns-Manville Fiberglas Insulation
4. Johns-Manville Fiberglas Insulation
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FLOOR AND SHOWER DRAINS

A. Acceptable Manufacturers

1. Crane
2. Vogt
3. Jost
4. Bostrom
5. Unions for 2-1/2 inches and smaller copper
6. Brass ground joints, brass body
7. Iron body

B. Floor Drains:

1. Cast iron floor drain with integral clamping collar.
2. Weepage openings.
3. Heavy duty grate, with vandproof screws.
4. Square top, polished brass.
5. Adjustable top.
6. 4 inch outlet unless otherwise noted on Drawings.
7. Model - equal to Wade, Series W - 1390.
8. Cast iron floor drain with integral clamping collar.
9. Weepage openings.
10. Heavy duty grate, with vandproof screws.
11. Square top, polished brass.
12. Adjustable top.
13. 4 inch outlet unless otherwise noted on Drawings.
14. Model - equal to Wade, Series W - 1390.
15. Cast iron floor drain with integral clamping collar.
16. Stand as noted on Drawing.

C. Installation

1. Floor drains shall be installed in the locations shown on Plans.
2. Care shall be taken that rim of floor drain is not higher than finished floor or in order to prevent "trapping" of water around the drain.
3. Floor drain top shall be flush with finished floor.
4. Hub drains shall extend 1 inch above finished floor per details.

CLEANOUTS AND ACCESS COVERS

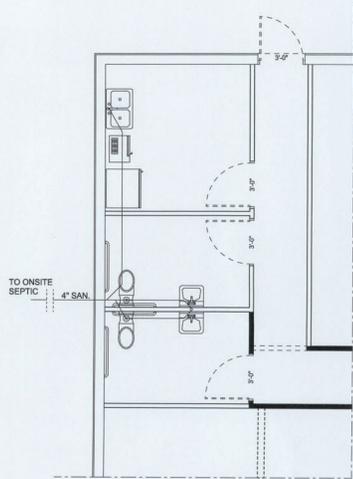
A. Provide cleanouts as shown on the Drawings or as required by Standard Plumbing Code.

B. Acceptable Manufacturers

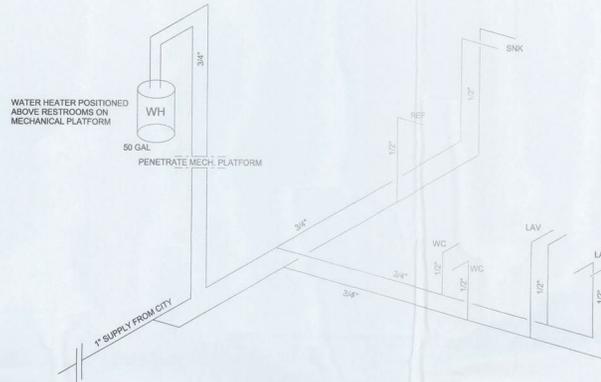
1. Crane
2. Vogt
3. Jost
4. Bostrom
5. Unions for 2-1/2 inches and smaller copper
6. Brass ground joints, brass body
7. Iron body

C. Floor Cleanouts:

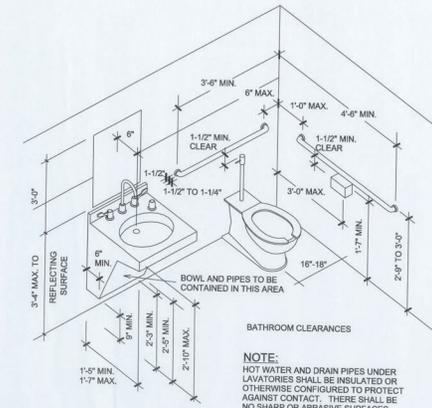
1. Cleanout shall be drain pipe through 4 inches.
2. Adjustable housing to match finished floor.
3. Heavy duty grate.
4. Nickel brass secured cover.
5. Finish as required to match soil pipe.
6. Cast iron.
7. Cover shall be marked "C.O."
8. Model Number:
9. Synthetic floor covering:
10. (W) Wade W-7030-D Series or equal
11. Finished slab - no covering
12. (E) Equal to Wade W-7030 Series or equal
13. Terrazzo finish:
14. (W) Wade W-7010-U Series, or equal
15. Concealed Cleanouts:
16. Concealed in crawl space or unfinished mechanical rooms.
17. Cast iron cleanout tee on T-wall with ferrule fitting and neoprene seal raised plug
18. Same size as drain pipe through 4 inches.
- 19



DWV PLAN
SCALE: 3/16" = 1'-0"

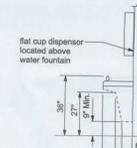


SUPPLY RISER
NTS

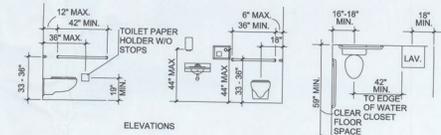


BATHROOM CLEARANCES

NOTE:
HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.



WATER COOLER OR BUBBLER CLEARANCES

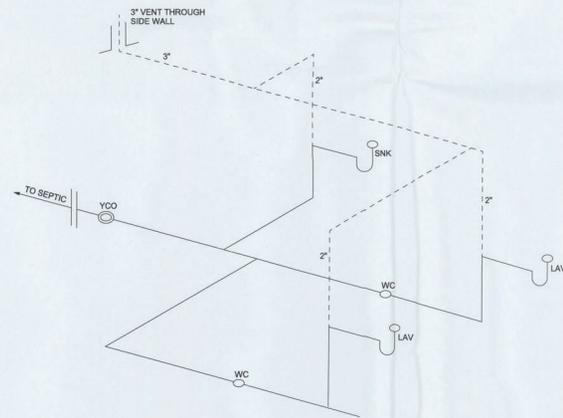


ELEVATIONS

WATER CLOSETS CLEARANCES

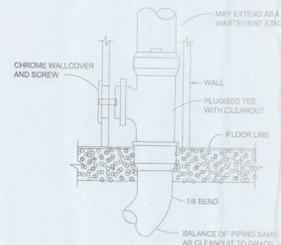
NOTE:
FLORIDA LAW, SECTION 553.504(5), F.S., STIPULATES THAT "... REQUIRED BATHING ROOMS AND TOILET ROOMS IN NEW CONSTRUCTION SHALL BE DESIGNED AND CONSTRUCTED "... WITH AN ACCESSIBLE LAVATORY IN THE WHEELCHAIR ACCESSIBLE COMPARTMENT AND THE WATER CLOSET LOCATED IN A CORNER DIAGONAL TO THE DOOR. THE ADA STANDARDS FOR ACCESSIBLE DESIGN AND THEREFORE THIS CODE REQUIRES WHEELCHAIR ACCESSIBLE COMPARTMENTS IN NEW CONSTRUCTION AND IN ALTERATIONS OF EXISTING BUILDINGS TO HAVE SELF CLOSING DOORS.

ADA CLEARANCE REQUIREMENTS
NTS

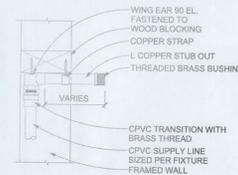


DWV RISER
NTS

NOTE:
PROVIDE PLUMBING CLEAN-OUTS AT THE BASE OF ALL STACKS, A MAXIMUM OF 75' O.C. ALONG ALL MAIN DRAIN RUNS AND THE UP-STREAM ENDS OF MAIN DRAIN RUNS, WHERE THE MAIN BUILDING DRAIN EXITS THE BUILDING AND AT 75' INTERVALS TO THE DISPOSAL SITE.



WALL CLEANOUT DETAILS
NTS

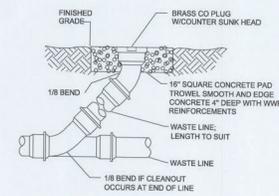


WALL STUBOUT DETAIL
NTS



FLOOR CLEANOUT
NTS

NOTE:
FLOOR CLEANOUT SHALL NOT BE PLACED IN A CARPETED AREA



YARD CLEANOUT
NTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



CERTIFICATE OF AUTHORIZATION
NO. 28022
P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085



Brett A. Crews, P.E. 65592

DRAWN BY:
TM
APPROVED BY:
BC

MONSTA CLOTHING

PLUMBING PLAN

CES PROJECT NO.:
2013-015
SHEET:
P-2

ELECTRICAL SPECIFICATIONS

BASIC ELECTRICAL MATERIALS AND METHODS

PART 1 GENERAL

1.1 SUMMARY

- A. GROUNDING AND BONDING.
- B. CONNECTION OF UTILIZATION EQUIPMENT.
- C. SUPPORTS.
- D. IDENTIFICATION.

1.2 SUBMITTALS

- A. PRODUCT DATA: FOR REVIEW; PROVIDE CATALOG DATA FOR GROUNDING AND BONDING DEVICES.

1.3 REGULATORY REQUIREMENTS

- A. CONFORM TO REQUIREMENTS OF NFPA 70.
- B. FURNISH PRODUCTS LISTED BY UL OR OTHER TESTING FIRM ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.
- C. FLORIDA BUILDING CODE.

1.4 PROJECT CONDITIONS

- A. VERIFY FIELD MEASUREMENTS AND CIRCUITING ARRANGEMENTS ARE AS SHOWN ON DRAWINGS.

PART 2 PRODUCTS

2.1 GROUNDING MATERIALS

- A. GROUND ROD: PER ELECTRICAL PLAN.
- B. MECHANICAL CONNECTORS: BRONZE ABOVE GRADE ONLY.
- C. EXOTHERMIC WELDS: BELOW GRADE CONNECTORS.

2.2 BASIC MATERIALS

- A. STEEL CHANNEL: GALVANIZED
- B. MISCELLANEOUS HARDWARE: TREAT FOR CORROSION RESISTANCE.
- C. NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC, BLACK LETTERS ON WHITE BACKGROUND.
- D. WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE

PART 3 EXECUTION

1. INSTALLATION

- A. INSTALL WORK ACCORDING TO NECA "STANDARD OF 2.5 BUILDING WIRE AND CABLE INSTALLATION"
- B. PROVIDE BONDING TO MEET REGULATORY REQUIREMENTS.
- C. MAKE ELECTRICAL CONNECTIONS TO UTILIZATION EQUIPMENT IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S INSTRUCTIONS.
1. VERIFY THAT WIRING AND OUTLET ROUGH-IN WORK IS COMPLETE AND THAT UTILIZATION EQUIPMENT IS READY FOR ELECTRICAL CONNECTION, WIRING, AND ENERGIZING.
2. MAKE WIRING CONNECTIONS IN CONTROL PANEL OR IN WIRING COMPARTMENT OF PRE-WIRED EQUIPMENT. PROVIDE INTERCONNECTING WIRING WHERE INDICATED.
3. INSTALL AND CONNECT DISCONNECT SWITCHES, CONTROLLERS, CONTROL STATIONS, AND CONTROL DEVICES AS INDICATED.
4. MAKE CONDUIT CONNECTIONS TO EQUIPMENT USING FLEXIBLE CONDUIT. USE LIQUIDTIGHT FLEXIBLE CONDUIT IN DAMP OR WET LOCATIONS.
5. INSTALL PRE-FABRICATED CORD SET WHERE CONNECTION WITH ATTACHMENT PLUG IS INDICATED OR SPECIFIED, OR USE ATTACHMENT PLUG WITH SUITABLE STRAIN-RELIEF CLAMPS.
6. PROVIDE SUITABLE STRAIN-RELIEF CLAMPS FOR CORD CONNECTIONS TO OUTLET BOXES AND EQUIPMENT CONNECTION BOXES.
- D. INSTALL SUPPORT SYSTEMS SIZED AND FASTENED TO ACCOMMODATE WEIGHT OF EQUIPMENT AND CONDUIT, INCLUDING WIRING, WHICH THEY CARRY.

3.1 EXAMINATION AND PREPARATION

1. FASTEN HANGER RODS, CONDUIT CLAMPS, AND OUTLET AND JUNCTION BOXES TO BUILDINGS STRUCTURE USING PRECAST INSERT SYSTEM BEAM CLAMPS.
2. USE TOGGLE BOLTS OR HOLLOW WALL FASTENERS IN HOLLOW MASONRY, PLASTER, OR GYPSUM BOARD PARTITIONS AND WALLS; EXPANSION ANCHORS OR PRESET INSERTS IN SOLID MASONRY WALLS; SELF-DRILLING ANCHORS OR EXPANSION ANCHOR ON CONCRETE SURFACES; SHEET METAL SCREWS IN SHEET METAL STUDS; AND WOOD SCREWS IN WOOD CONSTRUCTION.
3. DO NOT FASTEN SUPPORTS TO PIPING, CEILING SUPPORT WIRES, DUCTWORK, MECHANICAL EQUIPMENT, OR CONDUIT.
4. DO NOT USE POWER-ACTUATED ANCHORS.
5. DO NOT DRILL STRUCTURAL STEEL MEMBERS.
6. FABRICATE SUPPORTS FROM STRUCTURAL STEEL OR STEEL CHANNEL.
- E. IDENTIFY ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT, AND LOADS SERVED, TO MEET REGULATORY REQUIREMENTS AND AS SCHEDULED.
1. DEGREASE AND CLEAN SURFACES TO RECEIVE NAMEPLATES AND TAPE LABELS.
2. SECURE NAMEPLATES TO EQUIPMENT FRONTS USING SCREWS, RIVETS, OR ADHESIVE, WITH EDGES PARALLEL TO EQUIPMENT LINES. SECURE NAMEPLATE TO INSIDE FACE OF RECESSED PANELBOARD DOORS IN FINISHED LOCATIONS.
3. USE NAMEPLATES WITH 1/8 INCH LETTERING TO IDENTIFY INDIVIDUAL SWITCHES AND CIRCUIT BREAKERS, RECEPTACLE CIRCUITS, AND LOADS SERVED.
4. USE NAMEPLATES WITH 1/4 INCH TO IDENTIFY DISTRIBUTION AND CONTROL EQUIPMENT.
- F. INSTALL WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND AT LOAD CONNECTIONS.
1. USE BRANCH CIRCUIT OR FEEDER NUMBER TO IDENTIFY POWER AND LIGHTING CIRCUITS.
2. USE CONTROL WIRE NUMBER AS INDICATED ON FROM FOUNDATION WALL; PLASTIC CONDUIT. PROVIDE EQUIPMENT MANUFACTURER'S SHOP DRAWINGS TO IDENTIFY CONTROL WIRING.

WIRING METHODS

PART 1 GENERAL

1.1 REGULATORY REQUIREMENTS

- A. CONFORM TO REQUIREMENTS OF NFPA 70.
- B. FURNISH PRODUCTS LISTED BY UL OR OTHER TESTING FIRM ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.

PART 2 PRODUCTS

2.1 PRODUCT REQUIREMENTS

- A. USE ONLY SPECIFIED RACEWAY IN THE FOLLOWING LOCATIONS:
 1. INSTALLATIONS IN OR UNDER CONCRETE SLAB, OR UNDERGROUND WITHIN 5 FEET FROM FOUNDATION WALL; PVC SCHEDULE 40 CONDUIT.
 2. IN SLAB ABOVE GRADE; PLASTIC CONDUIT.
- B. EXPOSED OUTDOOR LOCATIONS: RIGID STEEL CONDUIT OR ELECTRICAL METALLIC TUBING. USE THREADED OR RAIN-TIGHT FITTINGS.

4. WET INTERIOR LOCATIONS: RIGID STEEL CONDUIT OR ELECTRICAL METALLIC TUBING. USE THREADED OR RAIN-TIGHT FITTINGS FOR METAL CONDUIT.
5. DRY INTERIOR LOCATIONS: RIGID STEEL CONDUIT OR ELECTRICAL METALLIC TUBING.

6. EXPOSED LOCATIONS IN WAREHOUSE AT CEILING JOISTS AND CONCEALED BRANCH CIRCUITS IN OFFICES MAY BE MC CABLE. ALL HOLLOWERS SHALL BE CONDUCTORS IN CONDUIT.

- B. USE WIRE AND CABLE IN LOCATIONS AS FOLLOWS:
 1. ALL POWER WIRES AND CABLES SHALL BE IN RACEWAY. D. USE NO WIRE SMALLER THAN 12 AWG FOR POWER AND LIGHTING CIRCUITS, AND NO SMALLER THAN 14 AWG FOR CONTROL WIRING. USE 10 AWG CONDUCTOR FOR 20 AMPERE, 120 VOLT BRANCH CIRCUIT HOME RUNS LONGER THAN 75 FEET; AND FOR 20 AMPERE.

2.2 CONDUIT AND FITTINGS

- A. CONDUIT:
 1. METAL CONDUIT AND TUBING: GALVANIZED STEEL.
 2. FLEXIBLE CONDUIT: STEEL
 3. LIQUID TIGHT FLEXIBLE CONDUIT: FLEXIBLE CONDUIT WITH PVC JACKET.
 4. PLASTIC CONDUIT AND TUBING: NEMA TC 2, PVC. USE SCHEDULE 40 CONDUIT.
- B. CONDUIT FITTINGS:
 1. METAL FITTINGS AND CONDUIT BODIES: NEMA PB 1.
 2. PLASTIC FITTINGS AND CONDUIT BODIES: NEMA TC 3.
 3. EMT FITTINGS: STEEL COMPRESSION TYPE FOR WET LOCATION. SET SCREW FOR DRY LOCATION

2.3 ACCESS PANELS

- A. PROVIDE CEILING ACCESS PANELS FOR EQUIPMENT, DEVICES, BOXES AND OTHER LIKE ITEMS REQUIRING ADJUSTMENT, MAINTENANCE OR ACCESSIBILITY. IF THEY ARE NOT LOCATED OVER LAY-IN TYPE CEILING OR ARE NOT OTHERWISE ACCESSIBLE. OBTAIN APPROVAL FROM ARCHITECT FOR TYPE AND LOCATION OF ACCESS PANELS.

2.4 ELECTRICAL BOXES

- A. BOXES:
 1. SHEET METAL: NEMA OS 1, GALVANIZED STEEL, 4" x 4" x 1 1/4" deep.
 2. CAST METAL: CAST FERROUS, DEEP TYPE, GASKETED COVER, THREADED HUBS.

2.5 BUILDING WIRE AND CABLE

- A. FEEDERS AND BRANCH CIRCUITS LARGER THAN 6 AWG: COPPER STRANDED CONDUCTOR, 600 VOLT INSULATION, TH-MYHW-HWN AND XHHW.
- B. FEEDERS AND BRANCH CIRCUITS 6 AWG AND SMALLER: COPPER CONDUCTOR, 600 VOLT INSULATION, TH-MYHW, XHHW 6 AND 8 AWG, STRANDED CONDUCTOR; SMALLER THAN 8 AWG, SOLID CONDUCTOR.
- C. CONTROL CIRCUITS: COPPER, STRANDED CONDUCTOR, 600 VOLT INSULATION, TH-MYHW.

2.6 REMOTE CONTROL AND SIGNAL CABLE

- A. CONTROL CABLE FOR CLASS 1 REMOTE CONTROL AND SIGNAL CIRCUITS: COPPER CONDUCTOR, 600 VOLT INSULATION, RATED 60 DEGREE C, INDIVIDUAL CONDUCTORS TWISTED TOGETHER, SHIELDED, AND COVERED WITH PVC JACKET (PLENUM RATED).

- B. CONTROL CABLE FOR CLASS 2 OR CLASS 3 REMOTE CONTROL AND SIGNAL CIRCUITS: COPPER CONDUCTOR, 300 VOLT INSULATION, RATED 60 DEGREE C, INDIVIDUAL CONDUCTORS TWISTED TOGETHER, SHIELDED, AND COVERED WITH PVC JACKET, UL LISTED, (PLENUM RATED).

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

- A. VERIFY THAT INTERIOR OF BUILDING IS PHYSICALLY PROTECTED FROM WEATHER.
- B. VERIFY THAT MECHANICAL WORK THAT IS LIKELY TO DAMAGE CONDUITS HAS BEEN COMPLETED.
- C. COMPLETELY AND THOROUGHLY SWAB RACEWAY SYSTEM BEFORE INSTALLING CONDUITS.
- D. ELECTRICAL BOXES ARE SHOWN ON DRAWINGS IN APPROXIMATE LOCATIONS UNLESS DIMENSIONED.
 1. OBTAIN VERIFICATION FROM ENGINEER OF JUNCTION BOX LOCATIONS, AND LOCATIONS OF OUTLETS IN OFFICES AND WORK AREAS, PRIOR TO ROUGH-IN.
 2. IT SHALL BE UNDERSTOOD THAT ANY OUTLET MAY BE RELOCATED A DISTANCE NOT EXCEEDING 5FT FROM THE LOCATION SHOWN ON THE DRAWINGS PRIOR TO OR DURING ROUGH-IN, IF SO DIRECTED BY THE ARCHITECT/ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
 3. LOCAL SWITCHES WHICH ARE SHOWN NEAR DOORS SHALL BE LOCATED AT THE STRIKE SIDE OF THE DOOR AS FINALLY HUNG, REGARDLESS OF SWING ON THE DRAWINGS.

3.2 INSTALLATION

- A. PERFORM WORK ACCORDING TO NECA STANDARD OF INSTALLATION.
- B. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT NEAT APPEARANCE.
 1. ROUTE EXPOSED RACEWAY PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING.
 2. MAINTAIN MINIMUM 6-INCH CLEARANCE TO PIPING AND 12" CLEARANCE TO HEAT SURFACES SUCH AS FLUES, STEAM PIPES, AND HEATING APPLIANCES.
 3. MAINTAIN REQUIRED FIRE, ACOUSTIC, AND VAPOR BARRIER RATING WHEN PENETRATING WALLS, FLOORS, AND CEILINGS.
 4. ROUTE CONDUIT THROUGH ROOF OPENINGS FOR PIPING AND DUCTWORK WHERE POSSIBLE; OTHERWISE, ROUTE THROUGH ROOF JACK WITH PITCH POCKET.
 5. GROUP IN PARALLEL RUNS WHERE PRACTICAL. USE RACK CONSTRUCTED OF STEEL CHANNEL, MAINTAIN SPACING BETWEEN RACEWAYS OR DERATE CIRCUIT AMPACITIES TO NFPA 70 REQUIREMENTS.
 6. USE CONDUIT HANGERS AND CLAMPS; DO NOT FASTEN WITH WIRE OR PERFORATED PIPE STRAPS.
 7. USE CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION.
 8. TERMINATE CONDUIT STUBS WITH INSULATED BUSHINGS.
 9. USE SUITABLE CAPS TO PROTECT INSTALLED RACEWAY AGAINST ENTRANCE OF DIRT AND MOISTURE.
 10. PROVIDE NO. 12 AWG INSULATED CONDUCTOR OR SUITABLE PULL STRING IN EMPTY RACEWAYS, EXCEPT SLEEVES AND NIPPLES.
 11. INSTALL EXPANSION JOINTS WHERE RACEWAY CROSSES BUILDING EXPANSION OR SEISMIC JOINTS.
 12. INSTALL PLASTIC CONDUIT AND TUBING ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
 13. USE STEEL COMPRESSION TYPE FITTINGS WITH EMT CONDUITS.
- C. INSTALL ELECTRICAL BOXES AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAP, WIRE PULLING, EQUIPMENT CONNECTIONS AND REGULATORY REQUIREMENTS.

1. USE CAST OUTLET BOX IN EXTERIOR LOCATIONS EXPOSED TO WEATHER AND WET LOCATIONS.

2. USE HINGED COVER ENCLOSURE FOR INTERIOR PULL AND JUNCTION BOX LARGER THAN 12 INCHES IN ANY DIMENSION.

3. LOCATE AND INSTALL ELECTRICAL BOXES TO ALLOW ACCESS. PROVIDE ACCESS PANELS IF REQUIRED.

4. LOCATE AND INSTALL ELECTRICAL BOXES TO MAINTAIN HEADROOM AND TO PRESENT NEAT MECHANICAL APPEARANCE.

5. INSTALL PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS OR IN UNFINISHED AREAS.

6. PROVIDE KNOCKOUT CLOSURES FOR UNUSED OPENINGS.

7. ALIGN WALL-MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTATS, AND SIMILAR DEVICES.

8. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS ABOVE COUNTERS AND BACKSPLASHES.

9. USE RECESSED OUTLET BOXES IN FINISHED AREAS AND WHERE INDICATED.

10. SECURE BOXES TO INTERIOR WALL AND PARTITION STUDS, ACCURATELY POSITIONING TO ALLOW FOR SURFACE FINISH THICKNESS.

11. USE STAMPED STEEL STUD BRIGES FOR FLUSH OUTLETS IN HOLLOW STUD WALL, AND ADJUSTABLE STEEL CHANNEL FASTENERS FOR FLUSH CEILING OUTLET BOXES.

12. LOCATE BOXES IN MASONRY WALL TO REQUIRE CUTTING CORNER ONLY; COORDINATE MASONRY CUTTING TO ACHIEVE NEAT OPENINGS FOR BOXES.

13. DO NOT INSTALL BOXES BACK-TO-BACK IN WALLS; PROVIDE 6 INCHES SEPARATION, MINIMUM, EXCEPT PROVIDE 24 INCHES SEPARATION, MINIMUM IN ACOUSTIC-RATED WALLS.

14. DO NOT DAMAGE INSULATION.

- D. INSTALL CABLE AND WIRE ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

1. NEATLY TRAIN AND SECURE WIRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.

2. USE WIRE PULLING LUBRICANT FOR PULLING 4 AWG AND LARGER WIRES.

3. SUPPORT CABLES ABOVE ACCESSIBLE CEILING TON KEEP THEM FROM RESTING ON CEILING TILES.

4. MAKE SPLICES, TAPS, AND TERMINATIONS TO CARRY FULL AMPACITY OF CONDUCTORS WITHOUT PERCEPTIBLE TEMPERATURE RISE.

5. TERMINATE SPARE CONDUCTORS WITH ELECTRICAL TAPE.

- E. INSTALL WIRING DEVICES ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

- F. INSTALL WALL PLATES FLUSH AND LEVEL.

1. INSTALL PLATES ON SWITCH, RECEPTACLE, AND BLANK OUTLETS IN FINISHED AREAS, USING JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS.

2. INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILING, AND ON SURFACE-MOUNTED OUTLETS.

- G. INSTALL SERVICE FITTINGS ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

- H. BEFORE INSTALLING RACEWAYS AND PULLING WIRE TO ANY MECHANICAL EQUIPMENT OR PLUMBING EQUIPMENT, VERIFY ELECTRICAL CHARACTERISTICS WITH FINAL SUBMITTAL ON EQUIPMENT TO ASSURE PROPER NUMBER AND AWG OF CONDUCTORS.

- I. UNDERGROUND CABLE AND CONDUIT INSTALLATION SHALL CONFORM TO ANSI C2 AND NEC EXCEPT AS OTHERWISE INDICATED. THE CONTRACTOR SHALL PROMPTLY REPAIR ANY UTILITY LINES OR SYSTEM DAMAGED BY HIS OPERATION. THE TOP OF UNDERGROUND CONDUIT SHALL NOT BE LESS THAN 24 INCHES BELOW GRADE. THE BOTTOM OF CONDUITS TRENCH SHALL BE GRADED SMOOTH, WHERE ROCK AND SHARP EDGED MATERIAL ARE ENCOUNTERED, THE BOTTOM SHALL BE EXCAVATED FOR ADDITIONAL 3 INCHES, FILLED AND TAMPED LEVEL TO THE ORIGINAL BOTTOM WITH SAND OR EARTH FREE FROM ROCKS AND SHARP MATERIALS. PROVIDE MAGNETIC YELLOW WARNING TAPE ABOVE THE ENTIRE LENGTH OF UNDERGROUND CONDUITS. TAPE SHALL BE BURIED 12" BELOW GRADE.

- J. SURFACES DISTURBED DURING THE INSTALLATION OF UNDERGROUND CONDUITS SHALL BE RESTORED TO THEIR ORIGINAL CONDITIONS.

- K. PROVIDE SOD OF QUALITY EQUAL TO THAT REMOVED, PATCH PAVEMENT, SIDEWALK CURB, ETC. EXCAVATED MATERIAL NOT REQUIRED OR SUITABLE FOR BACKFILL SHALL BE REMOVED FROM PROJECT SITE. REMOVE WATER FROM EXCAVATION BY PUMPING OR OTHER APPROVED METHOD. BACKFILL SHALL BE FREE FROM LARGE CLODS OF EARTH OR STONES OVER 1 INCH IN SIZE.

SERVICE AND DISTRIBUTION

PART 1 GENERAL

1.1 SUBMITTALS

- A. SHOP DRAWINGS: FOR REVIEW; INDICATE CONSTRUCTION DETAILS FOR THE FOLLOWING:
 1. PANELBOARDS.

- B. PRODUCT DATA: FOR REVIEW; PROVIDE RATINGS AND COMPONENT DETAILS FOR THE FOLLOWING:
 1. ENCLOSED SWITCHES.
 2. FUSES.
 3. CIRCUIT BREAKERS.

1.2 REGULATORY REQUIREMENTS

- A. CONFORM TO REQUIREMENTS OF NFPA 70.
- B. FURNISH PRODUCTS LISTED BY UL OR OTHER TESTING FIRM ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.
- C. CONFORM TO REQUIREMENTS OF UTILITY COMPANY.

PART 2 PRODUCTS

2.1 ENCLOSED SWITCHES

- A. MANUFACTURERS: SQUARE D, GE, SIEMENS
- B. ENCLOSED SWITCH ASSEMBLIES: HEAVY DUTY FUSE CLIPS DESIGNED TO ACCOMMODATE CLASS R OR J FUSES.
- C. ENCLOSURES: NEMA-1 FOR INTERIOR LOCATIONS, NEMA-3R FOR EXTERIOR LOCATIONS.

2.2 FUSES

- A. FUSES 800 AMPERES AND LESS: CURRENT LIMITING, ONE-TIME FUSE, 250 VOLT, UL CLASS RK 1, RK 5 OR J

2.3 PANELBOARDS

- A. MANUFACTURERS: SQUARE D, GE, SIEMENS
- B. DISTRIBUTION PANELBOARDS: NEMA PB 1; CIRCUIT BREAKER TYPE:
 1. ENCLOSURE: TYPE 1
 2. PROVIDE SURFACE CABINET FRONT WITH SCREW COVER AND HINGED DOOR.

3. BUS: COPPER.

- C. LIGHTING AND APPLIANCE BRANCH CIRCUIT PANELBOARDS: NEMA PB 1; CIRCUIT BREAKER TYPE:
 1. ENCLOSURE: NEMA PB 1; TYPE 1
 2. PROVIDE FLUSH OR SURFACE CABINET FRONT WITH LOCKABLE DOOR, KEYPAD ALIKE.

3. BUS: COPPER BUS.

PART 3 EXECUTION

3.1 INSTALLATION

- A. COORDINATE WITH UTILITY COMPANY TO OBTAIN PERMANENT ELECTRIC SERVICE TO THE PROJECT.
- B. INSTALL CONCRETE PAD FOR UTILITY TRANSFORMER.
- C. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- D. INSTALL PANELBOARDS TO NEMA PB 1.1.

D. CLEAN EQUIPMENT

- E. REMOVE TYPED CIRCUIT CARDS AT THE COMPLETION OF THE PROJECT.

INTERIOR LUMINAIRES

PART 1 GENERAL

1.1 REGULATORY REQUIREMENTS

- A. CONFORM TO REQUIREMENTS OF ANSINFP 70.
- B. CONFORM TO REQUIREMENTS OF NFPA 101.
- C. FURNISH PRODUCTS LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES, INC. AS SUITABLE FOR PURPOSE SPECIFIED AND SHOWN.

PART 2 PRODUCTS

2.1 LUMINAIRES

- A. FURNISH PRODUCTS AS SPECIFIED IN SCHEDULE ON DRAWINGS.
- B. INSTALL BALLASTS, LAMPS, AND SPECIFIED ACCESSORIES AT FACTORY.

PART 3 EXECUTION

3.1 INSTALLATION

- A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. INSTALL SUSPENDED LUMINAIRES USING PENDANTS SUPPORTED FROM SWIVEL HANGERS. PROVIDE PENDANT LENGTH REQUIRED TO SUSPEND LUMINAIRE AT INDICATED HEIGHT.
- C. LOCATE RECESSED CEILING LUMINAIRES AS INDICATED ON REFLECTED CEILING PLAN.

- D. INSTALL SURFACE MOUNTED LUMINAIRE AND EXIT SIGNS PLUMB AND ADJUST TO ALIGN WITH BUILDING LINES AND WITH EACH OTHER. SECURE TO PROHIBIT MOVEMENT.

- E. EXPOSED GRID CEILING: SUPPORT SURFACE MOUNTED LUMINAIRE ON GRID CEILING DIRECTLY FROM BUILDING STRUCTURE OR PROVIDE AUXILIARY MEMBERS SPANNING CEILING (S) TO SUPPORT SURFACE MOUNTED LUMINAIRE.

- F. INSTALL RECESSED LUMINAIRE TO PERMIT REMOVAL FROM BELOW.

- G. INSTALL CLIPS TO SECURE RECESSED GRID-SUPPORTED LUMINAIRE IN PLACE. PROVIDE A MINIMUM OF 2 GALVANIZED STEEL WIRES TO SUPPORT LIGHTING FIXTURE FROM BUILDING STRUCTURE. PLACE WIRES DIAGONALLY AT LONG SIDES OF FIXTURE.

- H. INSTALL SPECIFIED LAMPS IN EACH LUMINAIRE, EMERGENCY LIGHTING UNIT AND EXIT SIGN.

- I. ADJUST EXIT SIGN DIRECTION ARROWS AS INDICATED.

- J. REPAIR LUMINAIRE THAT HAVE FAILED LAMPS AT SUBSTANTIAL COMPLETION.

- K. CLEAN ELECTRICAL PARTS TO REMOVE CONDUCTIVE AND DELETERIOUS MATERIALS. REMOVE DIRT AND DEBRIS FROM ENCLOSURE. CLEAN FINISHES AND TOUCHUP DAMAGE.

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



CERTIFICATE OF AUTHORIZATION
NO. 28022

P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085

Brett A. Crews, P.E. 65592

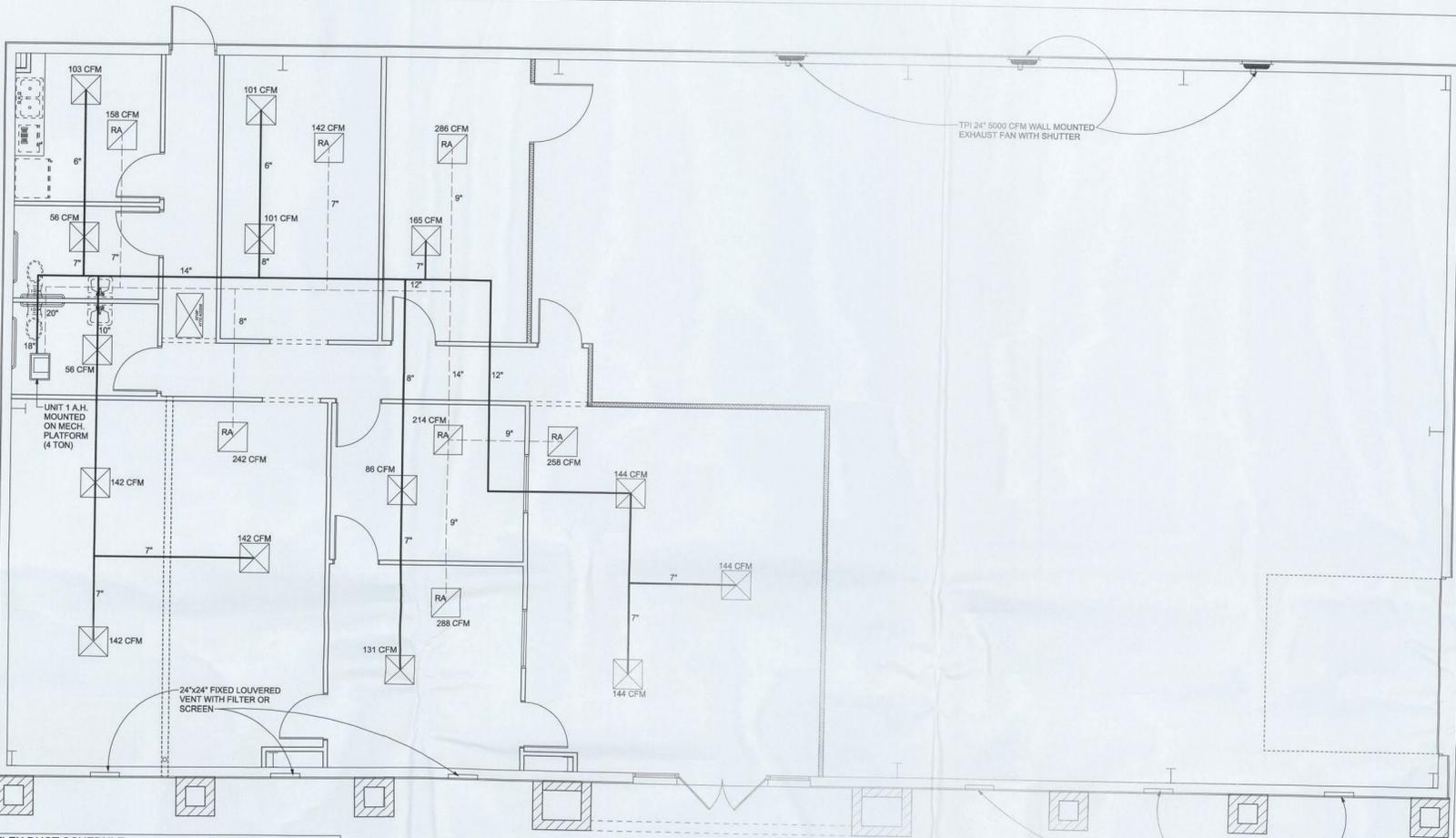


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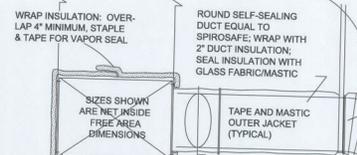
MONSTA CLOTHING

ELECTRICAL NOTES



HANGER STRAPS: 1"x22 GAUGE, SUPPORTED FROM STRUCTURE ABOVE, (3) SHEET METAL SCREWS BELOW.

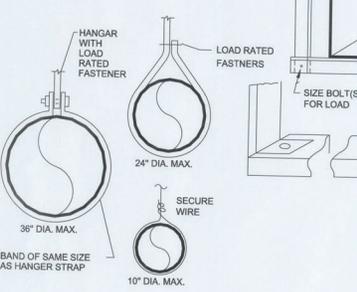
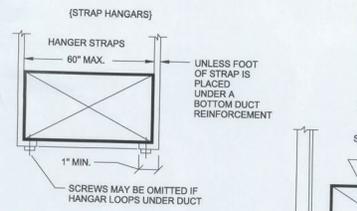
FLEXIBLE DUCT: INSULATED, MAXIMUM 8'-0" DO NOT SAG OR KINK



SECURE INSULATION WITH STICK-PINS AT 18" O.C. AND ADHESIVE ON BOTTOM, FOR DUCTS 24" AND LARGER

DUCT FABRICATION NOTES:

- SHEET METAL DUCTS SHALL BE FABRICATED & INSTALLED PER THE LATEST DUCT CONSTRUCTION STANDARDS.
- ALTERNATE INTERPRETATIONS OF SMACNA DUCT MATERIAL, HANGERS AND SUBJECT TO ENGINEER APPROVAL, AND REQUIRE SEPARATE SUBMITTAL.
- FLEXIBLE DUCT CONNECTORS SHALL BE PROVIDED WHERE SHOWN ON THE PLAN.
- SUPPLY AIR DROPS FROM ROOFTOP UNITS SHALL TRANSITION FROM THE SQUARE NECK ELBOWS, WITH SIZES AS SHOWN ON THE PLAN. IF TWO SIZES ARE AT THE UNIT, THEN TWO SEPARATE DROPS & ELBOWS SHALL BE PROVIDED.
- RETURN AIR DROPS FROM THE ROOFTOP UNITS SHALL BE FULL SIZE OF THE ELBOWS SHALL BE SQUARE NECK (SAME IN OUT DIMENSIONS) WITH 2" DOUBLE TURNING VANES.
- OFFSETS SHALL NOT REDUCE THE FREE AREA, AND SHALL NOT EXCEED 30% OF THE HEEL SHALL BE PROVIDED ON 30" OFFSETS. SMALLER OFFSETS SHALL BE PROVIDED.
- TRANSITIONS SHALL NOT EXCEED 1:3 RATIO (4" TRANSITION PER FOOT SINCE TRANSITION, AND 6" PER FOOT DOUBLE SIDED TRANSITION).
- INSULATION SHALL BE NFPA 90 APPROVED, WITH MINIMUM 4.2 R VALUE. WRAP BE 2" THICK WITH ALUMINUM FOIL FACING. LINER SHALL BE 1" THICK, 1-1/2" INSULATION.
- RECTANGULAR BRANCH CONNECTIONS SHALL BE WITH "CROWN PRODUCTS COMPANY FITTINGS, DAMPER AND HANDLE. SPRAY PAINT LOCATIONS OF HANDLES.
- FLEXIBLE DUCT SHALL INCLUDE AN INNER POLYETHYLENE LINER, A SPRING BLANKET INSULATION (R-6.0), A FOIL OUTER VAPOR BARRIER, AND BE UL-181 LISTED.
- SEAL ALL SUPPLY, RETURN & OUTSIDE AIR DUCT JOINTS WITH DUCT SEALER INSULATION JOINTS WITH GLASS FABRIC AND MASTIC.



CONCEALED DUCTWORK DETAILS

FLEX DUCT SCHEDULE

ROUND FLEX SIZES

SIZE	NOMINAL CFM RANGE	SIZE	NOMINAL CFM RANGE
4" ø	20 - 45	9" ø	130 - 320
5" ø	30 - 75	10" ø	170 - 420
6" ø	50 - 125	12" ø	270 - 650
7" ø	70 - 160	14" ø	350 - 880
8" ø	100 - 250	16" ø	480 - 1200

DIFFUSER SCHEDULE

SUPPLY (CD)	NECK SIZE (INCH)	FLEX DUCT DIA. (INCH)	RETURN (CR)	NECK SIZE (INCH)
0 - 100	6 x 6	6" ø	0 - 200	8 x 8
101 - 200	8 x 8	8" ø	201 - 500	12 x 12
201 - 300	10 x 10	9" ø	501 - 800	15 x 15
301 - 500	12 x 12	12" ø	801 - 1100	18 x 18
501 - 800	15 x 15	14" ø	1101 - 1700	22 x 22
801 - 1100	18 x 18	16" ø		

AIR DISTRIBUTION DEVICE SCHEDULE

TYPE	DESCRIPTION	NECK FACE SIZE (INCH)	MANUF.	NOMINAL CFM RANGE
A	aluminum, concentric-cone ceiling diffuser model TMS-AA	6" ø	Titus	0 - 150
		8" ø	Titus	151 - 275
		10" ø	Titus	276 - 425
		12" ø	Titus	426 - 625
B	aluminum aggregate ceiling return grill, model 50F	12 x 12	Titus	0 - 450
		24 x 24	Titus	0 - 1875
C	aluminum aggregate ceiling return grill, model 50F	12 x 12	Titus	0 - 450
		16 x 16	Titus	451 - 800
		20 x 20	Titus	801 - 1300
		24 x 24	Titus	1301 - 1875

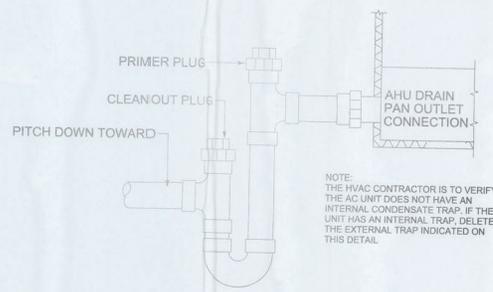
COOLING LOAD
DESIGN CONDITIONS
INSIDE TEMP: 75°F OUTSIDE TEMP: 92°F

HEATING LOAD
DESIGN CONDITIONS
INSIDE TEMP: 70°F OUTSIDE TEMP: 33°F

UNIT REQUIREMENTS
UNIT 1 TOTAL CFM: 1,459
NOMINAL TONNAGE OF EACH UNIT: 4 TON
UNIT 1 (46,548 Btu/h)

NOTE: DUCT SMOKE DETECTORS SHALL BE WIRED TO SHUT DOWN AHU UPON DETECTION OF SMOKE

NOTE: ALL BUILDING CAVITIES WHICH WILL BE USED AS RETURN AIR PLENUMS SHALL MEET SECTION M1601.4.1.8 OF THE IBC AND BE LINED WITH A CONTINUOUS AIR BARRIER MADE OF DURABLE NONPOROUS MATERIALS. ALL PENETRATIONS TO THE AIR BARRIER SHALL BE SEALED WITH A SUITABLE LONG-LIFE MASTIC MATERIAL.



CONDENSATE TRAP DETAIL
NTS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



CERTIFICATE OF AUTHORIZATION
NO. 28022

P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085



DRAWN BY: **TM**

APPROVED BY: **BC**

MONSTA CLOTHING

HVAC LAYOUT