

Builder/Contractor Responsibilities

Design 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 change 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. (ANSI Code of Standard Practice Sept 08 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 gusset, bracing, false work or other elements required for erection will be determined, furnished and installed by the erector. (ANSI Code of Standard Practice Sept 08 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. (ANSI Code of Standard Practice Sept 08 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 is 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 bracing, 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 sidewalk 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 Sections 3.2.2 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 Dead Load	2.10 psf
Superimposed	3.00 psf
Collateral	2.10 psf
12.00 psf Ceiling 1.00 psf Diaphragm	
Roof Live Load	20.00 psf reduction allowed
Vinyl Exposure Coefficient	1
Basic Wind Speed	119.00 mph
Internal Pressure Coefficient (GCPI)	0.18/-0.18
Corner Areas (within 5.00' of corner)	E3.31 psf pressure -31.09 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 stiffness for wind loading is based on AISI 7 commentary equation C6-3 of 0.74. The limits shown are at service loads unless indicated otherwise.

BUILDING DEFLECTION LIMITS... BLDG-A

Ceiling Type: Acoustical or Other

Roof Limits	Ref:psf	Furling	Panels
Live L/	150		60
Shoe L/	N/A	N/A	60
Vinyl L/	150		60
Total Gravity L/	150	150	60
	N/A	N/A	60
Frame Limits	Sidebay	Partial Frame Sidebay	
Live H/	100		
Shoe H/	100		
Vinyl H/	100		
Seismic Drift H/	N/A		
Crane H/	100		N/A
Total Gravity H/	100		
Total Vinyl H/	100		60
Service Seismic H/	100		N/A
Wall Limits	Limit		
Total Vinyl Panels L/	60		
Total Vinyl Diaphragm 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 turn-of-wrench, twist off type tension control bolts or 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 building structural framing members conform to ASTM A502, 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 A36, or ASTM A232 with a minimum specified yield point of 50 ksi. Hot-rolled angles, other than flange braces, conform to ASTM 36 minimum hollow 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-gauge steel members conform to the requirements of ASTM A1011 SS Grade 55, ASTM A1011 HSLAS Grade 53 Class 1, ASTM A653 SS Grade 55, or ASTM A588 HSLAS Grade 53 Class 1 with a minimum yield point of 55 ksi. For Canada, material properties conform to CAN/CSA S460-09/04-21 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 supplied by the builder, project owner, or an architect and/or Engineer of record for the overall construction project.

Using 80# eye putter 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 sills 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 maximum spacing will be in compliance with the building code. The putter 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 DVE is being used to provide stability to the wall. Removal of the wall panels may result in less than minimum length of wall panels required. Field installation of 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 DVE 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 2 and 4.

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

7/8" A325 BOLT GRIP TABLE

GRP	LENGTH	BOLT LENGTH	NOTE
0 TO 3/16"	1 1/4" F.T.		FULL THREAD ENGAGEMENT IS DEEMED TO HAVE BEEN MET WHEN THE END OF THE BOLT IS FLUSH WITH THE FACE OF THE NUT. WASHER REQUIRED ONLY WHEN SPECIFIED OF BOLT, UNDER NUT, OR AT BOTH AT LOCATIONS NOTED ON ERECTION DRAWINGS. ADD 3/32" FOR EACH WASHER TO MATERIAL THICKNESS TO DETERMINE GRIP.
Over 3/16" 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"	3 1/4"		

Drawing Index

Page	Description	Rev	By	CHK	DATE
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	EndWall BLDGA WALLEW				
E8	EndWall BLDGA WALLEW				
EB-E10	Main Frame Cross Sections				
E11	Connection Detail				
E12	See Truss				
R1-R14	Construction Drawings				
R15	Truss Profiles				



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

METALLIC

OWNER: ONET GROUP
FRANZ MUTIS
1705 A SW MAINE BLVD.
LAKE CHARLES, LA 70605
LAKE CHARLES, LA 70605

Project Name & Location:
FRANZ MUTIS
1705 A SW MAINE BLVD.
LAKE CHARLES, LA 70605

DATE: 02/24/14 FOR CONSTRUCTION PERMIT

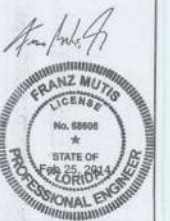
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Drawn by: AMS 2/24/14
Checked by: SF 2/24/14
Project Engineer: AMN

Job Number: 14-B-39238-1
Sheet Number: E1 of 12

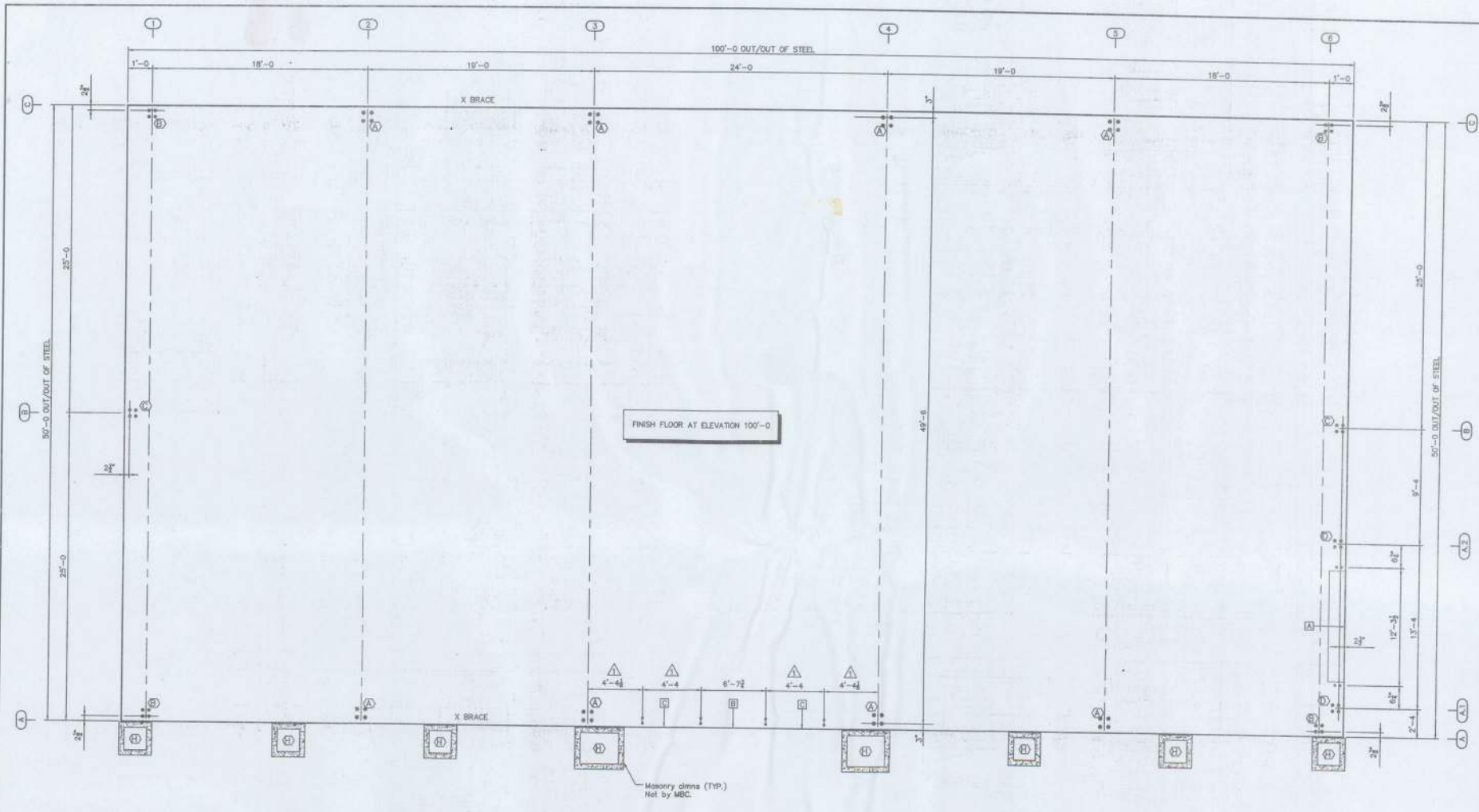
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Seal and certification is limited to the products designed and manufactured by manufacturer and only the undersigned engineer is not the overall engineer of record for this project.

FRANZ MUTIS, P.E.
Florida P.E. 58608



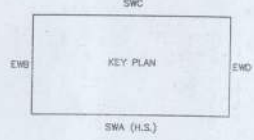
BUILDING DESCRIPTIONS

Building ID	Width	Length	Height	Slope
Building A	50'-6"	100'-0"	13'-9"	1:12



ACCESSORY SCHEDULE		
MARK	DESCRIPTION	DETAIL QUAN.
A	12'-0" X 16'-0" FRAMED OPENINGS	(C) 1
B	8'-4" X 7'-2" FRAMED OPENINGS	(C) 1
C	4'-0" X 5'-0" FRAMED OPENINGS	(I) 2
D	3070 SWING DOORS	(C) 1

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



ANCHOR ROD SETTING PLAN

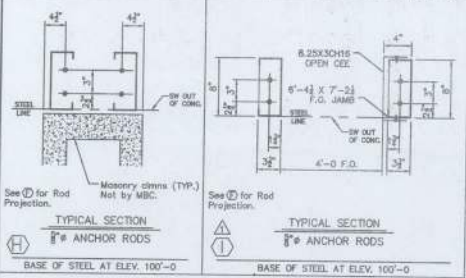
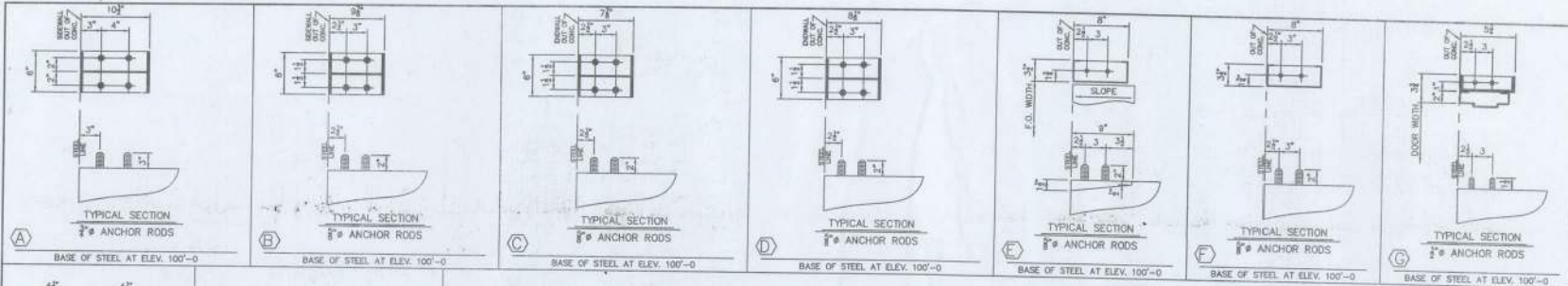
Anchor Rod Drawings

- This drawing is for anchor rod placement only and is not foundation design.
- Foundation must be square and level with all anchor rods true in size, location, and projection.
- Projection shown must be held to keep threads clear of finished concrete.
- This structural design data includes magnitude and location of design loads and support 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 mating.
- 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.
- Anchor rods are ASTM F1554 Gr. 36 material unless noted otherwise.

METALLIC metallic building company 2500 W. US HWY 1, SUITE 110 LAKELAND, FL 33803 888-776-7766 813-709-7000	Project Name & Location: MONSTA CLOTHING 700 W. SW MANALAPAN BLVD. LAKE CITY, FL 32025	<input type="checkbox"/> For Approval <input type="checkbox"/> For Construction Permit <input checked="" type="checkbox"/> For Erector Installation
	Customer: TRADEMARK DIST. GROUP 1326 SW MASSAULT ST. LAKE CITY, FL 32025	Drawing Status: <input type="checkbox"/> Not for Construction <input type="checkbox"/> For Approval <input type="checkbox"/> For Construction Permit <input checked="" type="checkbox"/> For Erector Installation

State: 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: F1 of 3	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. Franz Mutis, P.E. Florida P.E. 88606
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Revision	Date	Description	By	Chk'd
0	02/19/14	FOR ERECTOR INSTALLATION	AMS SF	
1	02/27/14	REVISED FOR ERECTOR INSTALLATION	AMS SF	

metallic building company
 200 W. WILSON ST. SUITE 1000
 WILSONVILLE, IN 46093
 PROJECT NO. 14-0-39239-1
 LOCATION:
 TRAVIS MARKS CHST. GROUP
 MONSTA CLOTHINA RD.
 TRAVIS MARKS RD.
 LAKE CITY, FL 32025
 LAKE CITY, FL 32025
 Drawing Status: Not Started Constructed For Construction Permit For Erector Installation

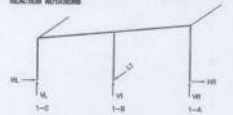
Scale: NOT TO SCALE
 Drawn by: AMS 2/19/14
 Checked by: SF 2/19/14
 Project Engineer: AXN
 Job Number: 14-0-39239-1
 Sheet Number: F2 of 3

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



PROJECT DESCRIPTION: USER NAME: DATE: PAGE: 1
 TITLE: SUPPORT REACTIONS FOR EACH LOAD GROUP
 DATE: 02/19/14
 USER NAME: JMS
 DATE: 02/19/14
 PAGE: 1-1

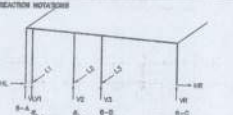


LOAD GROUP REACTION TABLE

LOAD GROUP	1-C			1-A		
	H	V	M	H	V	M
D	0.0	0.5	0.0	0.0	0.5	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0
W	-0.1	0.0	0.0	0.0	0.0	0.0
W1	-0.1	0.0	0.0	0.0	0.0	0.0
W2	-0.1	0.0	0.0	0.0	0.0	0.0
W3	-0.1	0.0	0.0	0.0	0.0	0.0
W4	-0.1	0.0	0.0	0.0	0.0	0.0
W5	-0.1	0.0	0.0	0.0	0.0	0.0

LOAD GROUP DESCRIPTION:
 D : DEAD LOAD
 C : COLLATERAL LOAD
 L : LIVE LOAD
 W : WIND LOAD AS AN INTERNAL ACTING SUCTION
 W1 : WIND LOAD AS AN OUTSIDE ACTING SUCTION
 W2 : WIND FORCE FROM THE RIGHT
 W3 : WIND FORCE FROM THE LEFT

PROJECT DESCRIPTION: USER NAME: DATE: PAGE: 2
 TITLE: SUPPORT REACTIONS FOR EACH LOAD GROUP
 DATE: 02/19/14
 USER NAME: JMS
 DATE: 02/19/14
 PAGE: 1-2

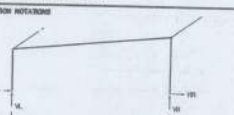


LOAD GROUP REACTION TABLE

LOAD GROUP	1-C			1-B			1-A		
	H	V	M	H	V	M	H	V	M
D	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W4	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W5	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 W2 : WIND FORCE FROM THE RIGHT
 W3 : WIND FORCE FROM THE LEFT
 W4 : WIND FORCE FROM THE LEFT
 W5 : DESIGN WIND LOAD

PROJECT DESCRIPTION: USER NAME: DATE: PAGE: 3
 TITLE: SUPPORT REACTIONS FOR EACH LOAD GROUP
 DATE: 02/19/14
 USER NAME: JMS
 DATE: 02/19/14
 PAGE: 1-3



LOAD GROUP REACTION TABLE

LOAD GROUP	1-C			1-B			1-A		
	H	V	M	H	V	M	H	V	M
D	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W4	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W5	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 W4 : WIND FORCE FROM THE LEFT
 W5 : DESIGN WIND LOAD

PROJECT DESCRIPTION: USER NAME: DATE: PAGE: 4
 TITLE: SUPPORT REACTIONS FOR EACH LOAD GROUP
 DATE: 02/19/14
 USER NAME: JMS
 DATE: 02/19/14
 PAGE: 1-4



LOAD GROUP REACTION TABLE

LOAD GROUP	1-C			1-B			1-A		
	H	V	M	H	V	M	H	V	M
D	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W2	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W3	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W4	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W5	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 W4 : WIND FORCE FROM THE LEFT
 W5 : DESIGN WIND LOAD

NOTES:
 1) THE REACTIONS PROVIDED ARE BASED ON THE OTHER DOCUMENTS AT THE TIME OF MAKING. ANY CHANGES TO BUILDING LOADS OR DIMENSIONS MAY CHANGE THE REACTIONS. THE REACTIONS WILL BE SUPERSEDED AND REVISED BY ANY FUTURE DRAWING.
 2) THE REACTIONS PROVIDED HAVE BEEN CREATED WITH THE FOLLOWING LAYOUT UNLESS NOTED OTHERWISE:
 a) A REACTION TABLE IS PROVIDED WITH THE REACTIONS FOR EACH LOAD GROUP.
 b) WIND REACTIONS:
 (1) GABLED ROOFING
 (a) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF WINDING THE LEFT SIDE OF THE BUILDING, AS SHOWN ON THE ANCHOR ROD DRAWING FROM THE OUTSIDE OF THE BUILDING.
 (b) INTERIOR COLUMNS ARE SPACED FROM LEFT SIDE TO RIGHT SIDE.
 (2) GABLED ROOFING
 (a) LEFT COLUMN IS THE LOW SIDE COLUMN.
 (b) RIGHT COLUMN IS THE HIGH SIDE COLUMN.
 (c) INTERIOR COLUMNS ARE SPACED FROM LOW SIDE TO HIGH SIDE.
 (3) DOMESTIC
 (a) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF WINDING THE WALL FROM THE OUTSIDE.
 (b) INTERIOR COLUMNS ARE SPACED FROM LEFT TO RIGHT.
 (c) 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.
 d) ANCHOR RODS ARE ASTM F306 3/8" MATERIAL UNLESS NOTED OTHERWISE ON THE ANCHOR ROD LAYOUT DRAWING.
 (3) BRACING
 (a) ROOF BRACING REACTIONS HAVE BEEN INCLUDED IN VALUES SHOWN IN THE REACTION TABLE.
 (b) OTHER BRACING AND BASE BUILDING CODES WHEN X-BRACING IS PRESENT IN THE GENERAL OR SPECIAL LONGITUDINAL SEISMIC LOADS (DETERMINED AND PROVIDED) DO NOT INCLUDE THE AMPLIFICATION FACTOR, S_w.
 (c) DESIGN CANADA BUILDING CODE (NBC) WHEN X-BRACING IS PRESENT IN THE GENERAL OR SPECIAL LONGITUDINAL SEISMIC LOADS (DETERMINED AND PROVIDED) ARE MULTIPLIED BY FORCE REDUCTION FACTOR, R_w, WHEN SPECIFIED SHORT-PERIOD SPECTRAL ACCELERATION RATIO (S_w) IS GREATER THAN 0.40.
 3) 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.
 4) FOR PROJECTS USING ULTIMATE DESIGN WIND SPEEDS SUCH AS 2013 IBC OR 2010 FLORIDA BUILDING CODE, THE WIND LOAD REACTIONS ARE AT A DESIGN WIND SPEED WITH A WIND FACTOR OF 1.0.
 THE MANUFACTURER DOES NOT PROVIDE "MAXIMUM" LOAD COMBINATION REACTIONS. HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE USED BY THE FOUNDATION ENGINEER TO DETERMINE THE APPLICABLE LOAD COMBINATIONS FOR HIGHEST DESIGN PROCEDURES AND ALLOW FOR AN ECONOMIC FOUNDATION DESIGN.

By: *[Signature]* Date: 02/19/14
 Description: SUPPORT REACTIONS FOR EACH LOAD GROUP
 Scale: 1/8" = 1'-0"

Revised: 02/19/14 FOR DIRECTOR INSTALLATION
 02/27/14 REVISED FOR DIRECTOR INSTALLATION

METALLIC metallic building company
 3000 W. WINDY HILL BLVD. SUITE 200
 MONTECLO, CALIFORNIA 95035
 700 S. WINDY HILL BLVD.
 LAKE CITY, FL 32025

Customer: FRANKLIN DIST. GROUP
 1700 SW HANNAH ST.
 LAKE CITY, FL 32025

Project Engineer: AXN
 Job Number: 14-B-39230-1
 Sheet Number: F3 of 3

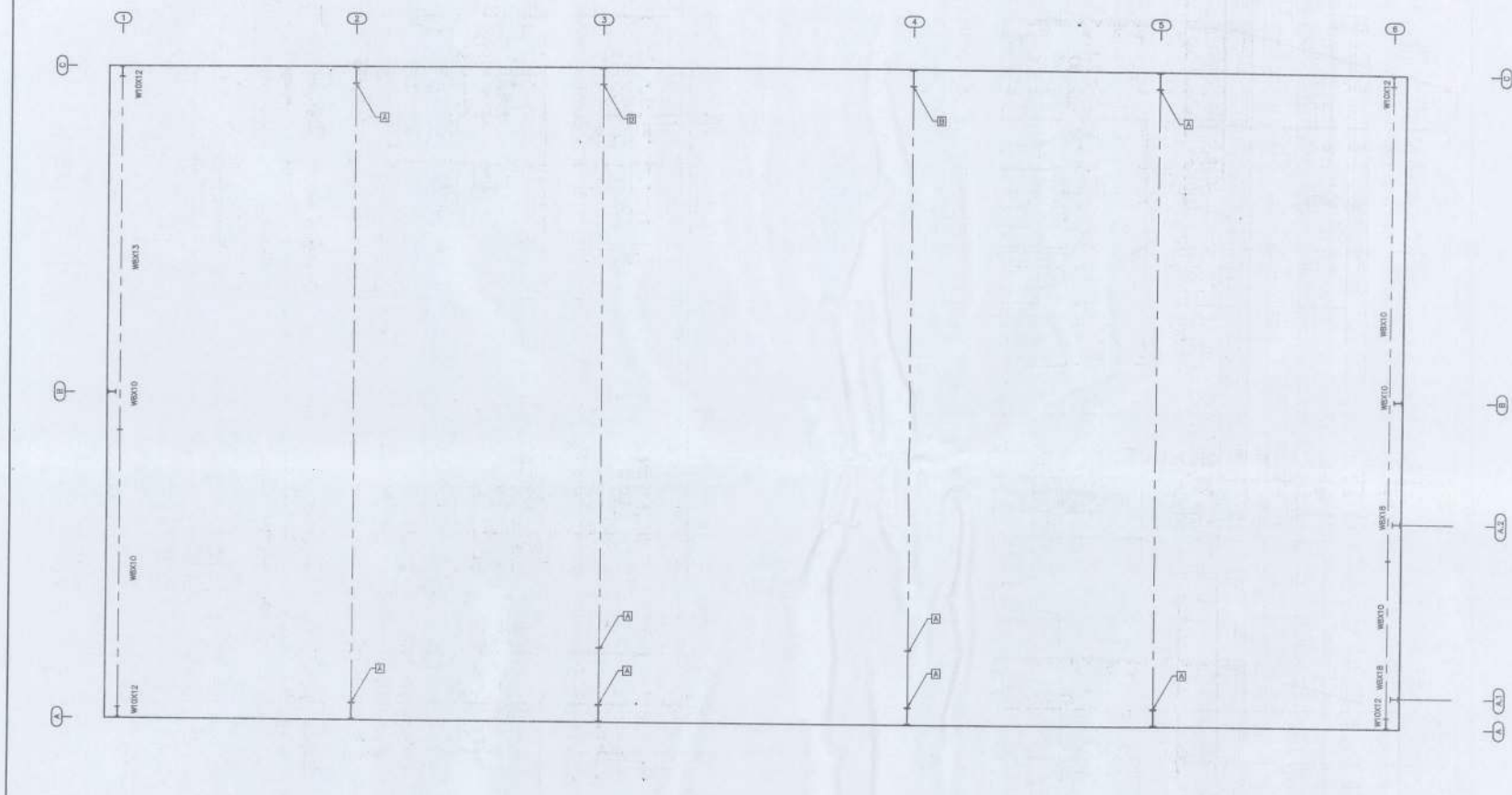
Scale: NOT TO SCALE
 Drawn by: JMS 2/19/14
 Checked by: SF 2/19/14
 Project Engineer: AXN
 Job Number: 14-B-39230-1
 Sheet Number: F3 of 3

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.

Printed: M. P. E.
 Drawing: P.E. 8806

[Signature]
 FRANZ MUTIS
 LICENSE
 No. 68606
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

SPUCE BOLT TABLE					
CONL	QTY.	SIZE	TYPE	HASSEMED WASHERS	BEVELD WASHERS
A	(6)	1/2 X 2"	A325 BAN	0	0
B	(6)	1/2 X 2"	A325 BAN	0	0

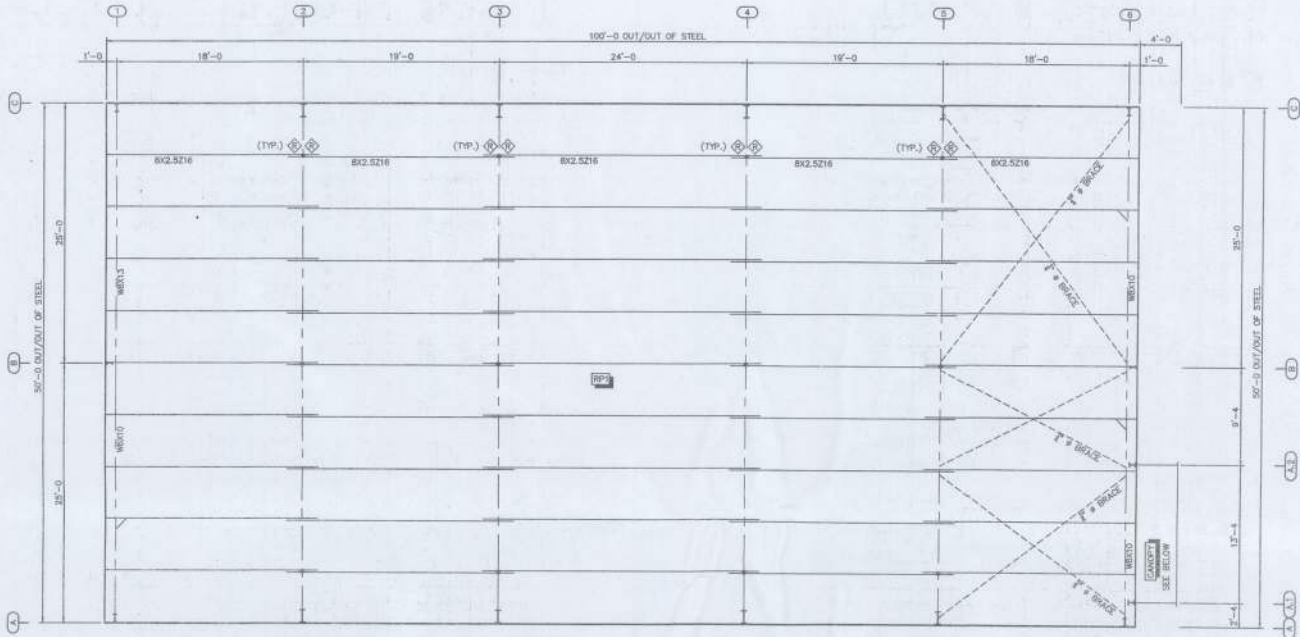


PRIMARY STEEL LOCATION PLAN

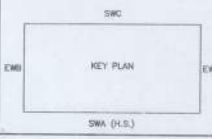
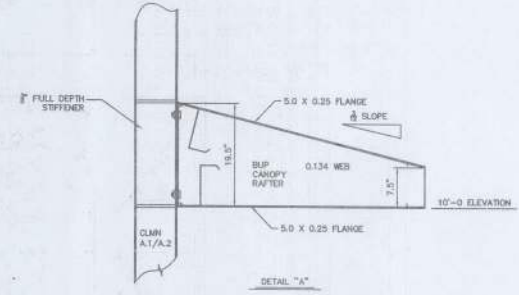
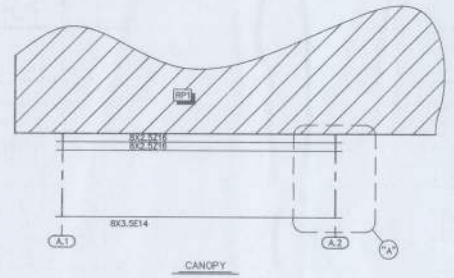
Revision	A	Date	02/24/14	Description	FOR CONSTRUCTION PERMIT
By	Ch Y	Drawn by	AWG	Checked by	SF
<p>metllic building company 720 W. 1st St., Suite 200, Ft. Lauderdale, FL 33304 (954) 561-7700</p> <p>METALIC CONSTRUCTION GROUP 1700 S.W. 11th St., Suite 200, Ft. Lauderdale, FL 33304 (954) 561-7700</p> <p>Project Name & Location: TRAVIS MEDICINES TRAVIS MEDICINES 1700 S.W. 11th St., Suite 200, Ft. Lauderdale, FL 33304</p> <p>Drawn by: AWG Checked by: SF Project Engineer: AXN Job Number: 14-B-39230-1 Sheet Number: E2 of 12</p> <p>The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Seal 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.</p> <p>For Construction Permit: <input checked="" type="checkbox"/> For Construction: <input type="checkbox"/> For Erector Installation: <input type="checkbox"/></p> <p>Franz Mutis, P.E. Florida P.E. 68656</p>					



● - DENOTES CLIP LOCATION
 S282 AT 8" PURLINS
 S282 AT 10" PURLINS
 S284 AT 12" PURLINS



ROOF FRAMING PLAN



Z SECTION LAP TABLE			
SYMBOL	LAP (LENGTH)	SYMBOL	LAP (LENGTH)
⊕	0'-2" (28")	⊕	2'-4" (2'-08")
⊕	1'-4" (1'-08")	⊕	3'-0" (3'-11")

Revision	Date	Description	By	QA/QC
A	02/24/14	FOR CONSTRUCTION PERMIT	ANS	SP

metallic building company
 1017 W. 7th St. Ft. Worth, TX 76102
 (817) 733-7770

Customer: MET GROUP
 TRAVIS MCDONNELL
 750 A SW MAR BLVD.
 DALLAS, TX 75201
 (214) 343-1200

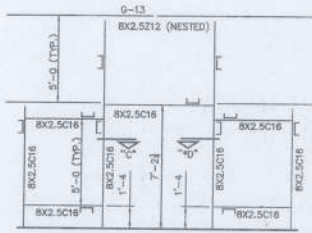
Project Name & Location:
 TRAVIS MCDONNELL
 750 A SW MAR BLVD.
 DALLAS, TX 75201

Scale: NOT TO SCALE
 Drawn by: AWS 2/24/14
 Checked by: SF 2/24/14
 Project Engineer: ANJ
 Job Number: 14-B-3929-1
 Sheet Number: E3 of 12

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.

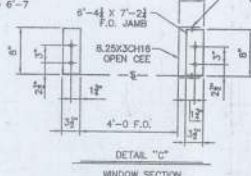
Franz Mutis, P.E.
 Florida P.E. 65506

[Signature]



DETAIL "B"
FRAMED OPENING JAMB INFO

OPEN CEE ONLY
DOES FROM ELEV.
1'-1 TO 6'-7

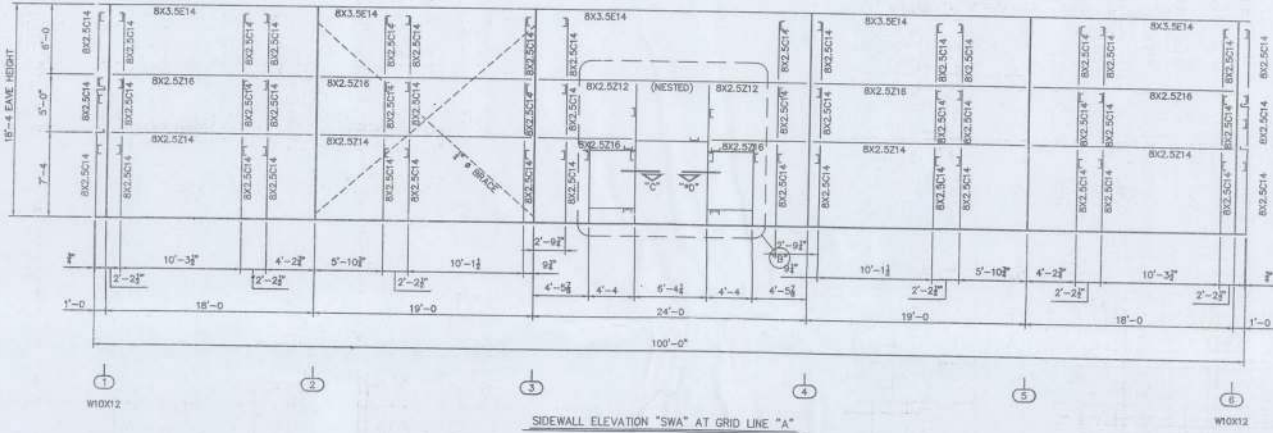


*NOTE:
SECTION "D" MIRRORS SECTION "C"

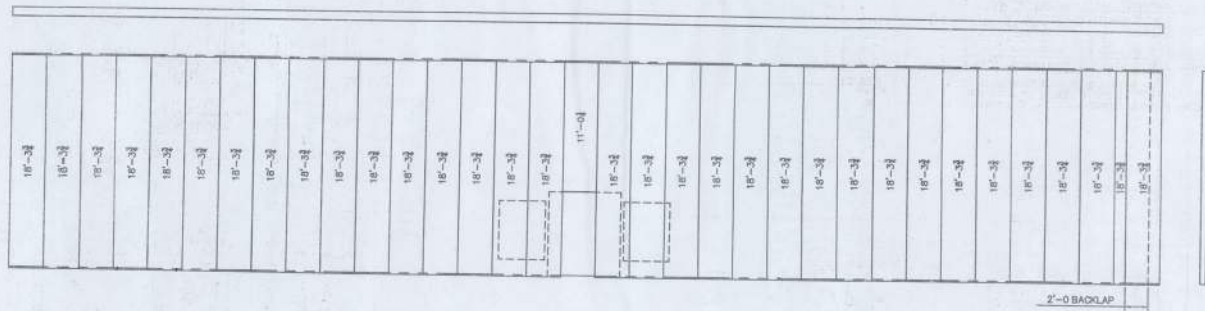
SCHEDULE OF ACCESSORIES	
NO. REQD.	DESCRIPTION
1	6'-4 1/2 X 7'-2 1/2 FACTORY LOCATED FRAMED OPENING
2	4'-0 X 5'-0 FACTORY LOCATED FRAMED OPENINGS
1	12'-0 X 10'-0 FACTORY LOCATED FRAMED OPENING
3	2'-0 X 2'-0 FACTORY LOCATED FRAMED OPENINGS
1	3070 WHITE PIPE-ASSEMBLED WALK DOOR W/ CYLINDER LOCKSET, LEFT HAND OUT, CLOSURE, 'N'ULATED
6	2020LWF FIXED LOUVER W/ BIRD SCREEN (FLORIDA APPROVED), COLOR = BURNISHED PLATE

REFER TO DETAILS ON INSTALLATION OF WALK DOOR.
REFER TO DETAILS ON INSTALLATION OF FRAMED OPENINGS.
USE STANDARD WALL PROCEDURES TO ERECT THE SIDEWALL AND ENDWALL PANELS.

CL202 - FASTENS BETWEEN THE
GRIDS ON EACH SIDE OF THE
SIDEWALL COLUMNS, AT ALL
GRID ELEVATIONS. REFER TO DETAILS.

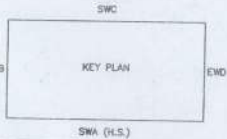


SIDEWALL ELEVATION "SWA" AT GRID LINE "A"



WALL SHEETING ELEVATION "SWA"
BLDG A

PBR WALL PANELS
PANEL COVERAGE = 3'-0
COLOR = CHARCOAL GRAY
PANEL PKG. REQ'D. = PBS-2



Revision	Date	Description	By	Chk'd
A	10/29/14	FOR CONSTRUCTION PERMIT	AWS	SF

metallic building company
 200 Avenue A, Houston, Texas P.O. Box 4838
 28776 (713) 461-7876 Fax 7746

METALLIC
 Customers: TRADEMARK CONST. GROUP
 TRAVIS MEDZOSKI
 750 A SW MAIN BLVD.
 LAKE CITY, FL 32025
 (407) 329-1111

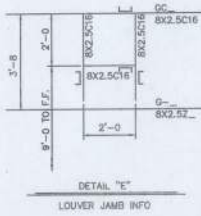
Drawing Status: New Revised For Construction For Installation

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: 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.

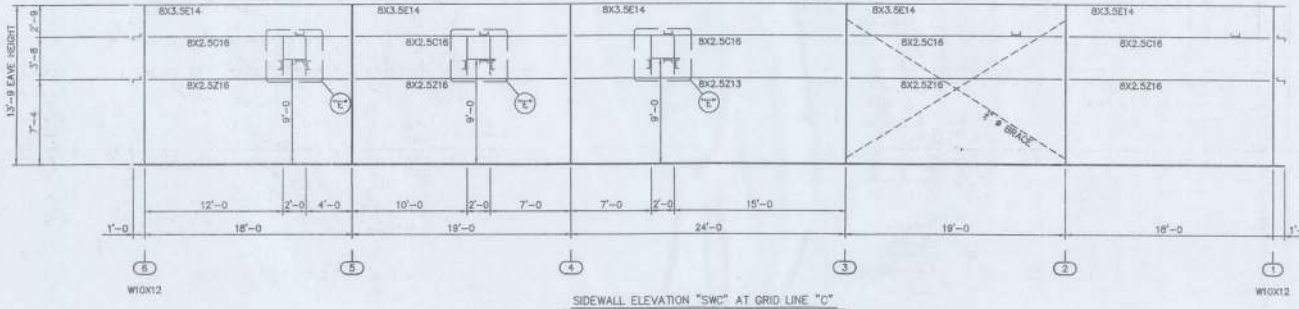
Franz Mutis, P.E.
 Florida P.E. 68606



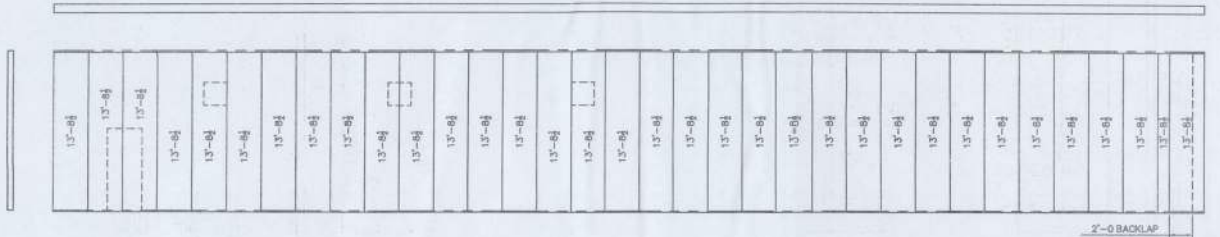


DETAIL "E"
LOUVER JAMB INFO

CL202 - FASTENERS BETWEEN THE GIRTS ON EACH SIDE OF THE SIDEWALL COLUMNS, AT ALL GRID ELEVATIONS. REFER TO DETAILS.
PC30 - FASTENERS BETWEEN THE GIRTS ON EACH SIDE OF THE SIDEWALL COLUMNS, AT ALL GRID ELEVATIONS.

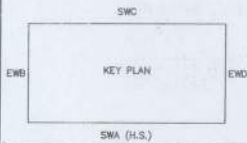


SIDEWALL ELEVATION "SWC" AT GRID LINE "C"



WALL SHEETING ELEVATION "SWC"
BLOC A

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



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

metallic building company
3970 W. STATE ROAD, SUITE 100
LAKELAND, FL 33805
TEL: 888-833-8333

Customer: TRADEMARK DIST. GROUP
1700 S. WASHINGTON ST.
LAKE CITY, FL 32025

Project Name & Location: MONSTA CLOTHING
TRANS MESSIDOR BLVD.
LAKE CITY, FL 32025

Drawing Status: Approved For Construction Permit For Contractor 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

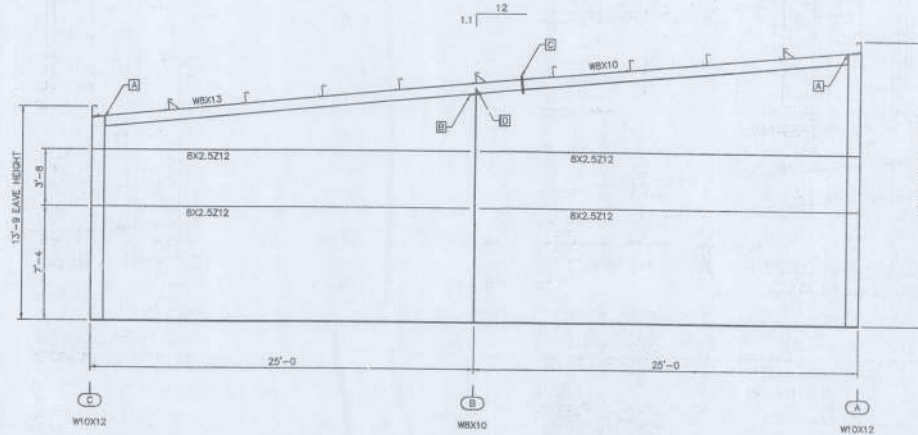
The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Solid seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

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

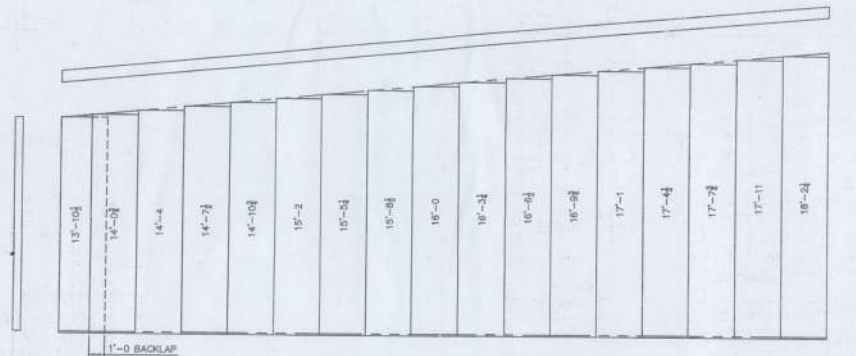


SPLICE BOLT TABLE				
CONN.	QTY.	SIZE	TYPE	HARDENED BEVELED W/SPICES
A	(2)	1/2 X 1 1/2	A325 B&N	0
B	(4)	1/2 X 1 1/2	A325 B&N	4
C	(8)	1/2 X 1 1/2	A325 B&N	0
D	(4)	1/2 X 1 1/2	A325 B&N	0

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

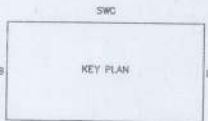


ENDWALL ELEVATION "EWB" AT GRID LINE "1"



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

WALL SHEETING ELEVATION "EWB"
 BLDC A



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

metallic building company
 780 HERRIN + HERRIN ROAD, SUITE 100, WYOMING, MISSISSIPPI 39238
 (767) 86-7796

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

Customer:
 TRADEMARK DIST. GROUP
 128 SW HASSAULT ST.
 LAKE CITY, FL 32025

Drawing Status: New Revis. For Construction For Approval Final For Construction

Scale: NOT TO SCALE

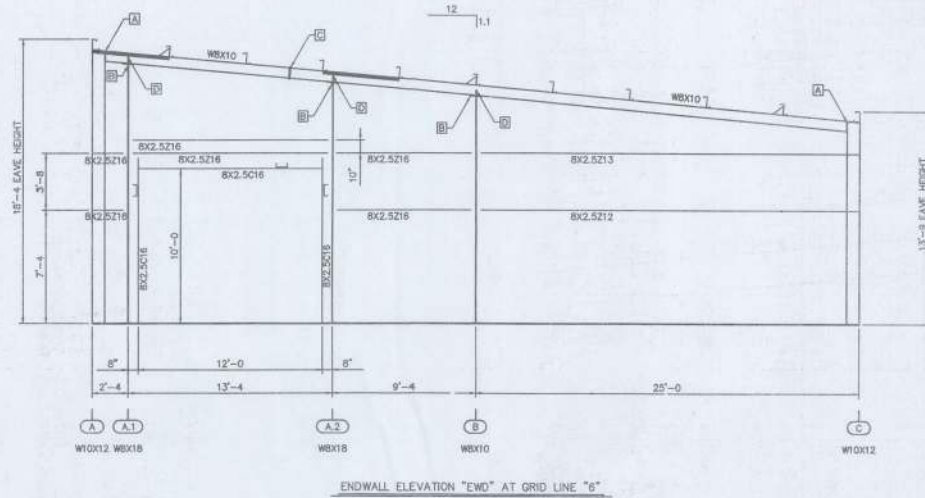
Drawn by: AWS 2/24/14
 Checked by: SF 2/24/14
 Project Engineer: ANH
 Job Number: 14-B-39238-1
 Sheet Number: E7 of 12

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.

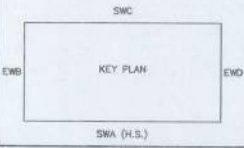
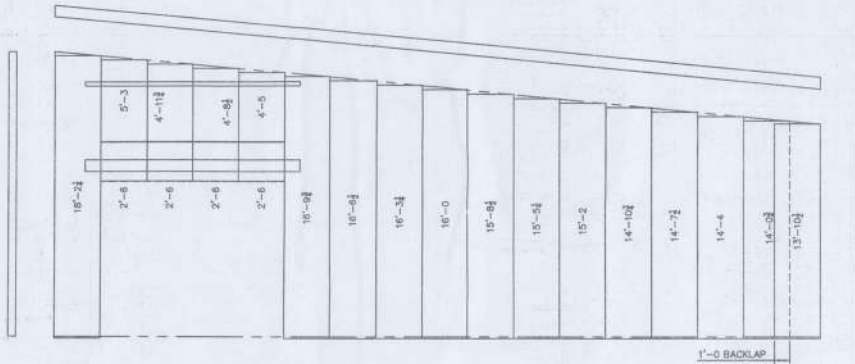
Franz Mutis, P.E.
 Florida P.E. 88606

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)	1/2 X 1 1/2	A325 B&N	0	0

CL2092 - FASTENERS BETWEEN THE GRIDS ON EACH SIDE OF THE ENDWALL COLUMNS, AT ALL GRID ELEVATIONS. REFER TO DETAILS.



PFR WALL PANELS
 PANEL COVERAGE = 3'-0"
 COLOR = CHARCOAL GRAY
 PANEL PKG. REQ'D. = FRS-4



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

metallic building company
 3700 W. US HWY 90, SUITE 110, BOCA RATON, FL 33433
 (561) 992-2200
 Project Name & Location:
 MINISTA CLOTHING
 TRAVIS MEDENOS, P.E.
 LAKE CITY, FL 32025

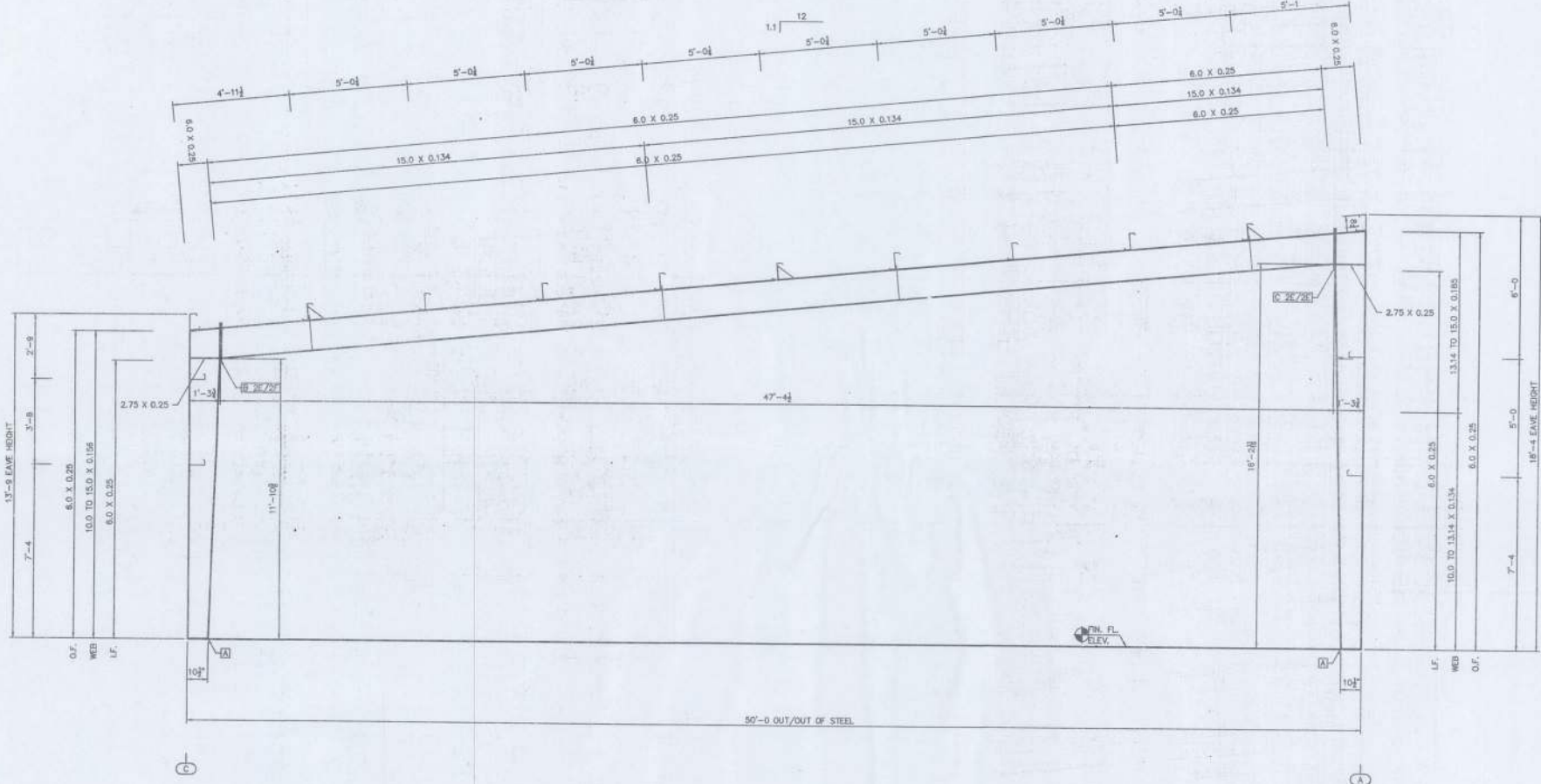
METALLIC
 Customer:
 TRADEMARK CHST. GROUP
 TRAVIS MEDENOS
 LAKE CITY, FL 32025
 Drawing Status: Preliminary For Construction Permit For Erector Installation

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: E5 of 12

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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 BEYOND WASHERS
A	8 X 0.375 X 0'-10"					
B	8 X 0.5 X 1'-7"	8 X 0.5 X 1'-8"	(8)	3/4 X 2"	A325 B&N	0 0
C	8 X 0.5 X 1'-8"	8 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

metallic building company
 Project Name & Location:
 MONSTA CLOTHING
 7500 US HIGHWAY 90
 LAKE CITY, FL 32025

Customer:
 TRADEMARK DIST. GROUP
 1208 SW HASSALL ST.
 LAKE CITY, FL 32025

Drawing Status: Approved For Construction Permit For Erector Installation

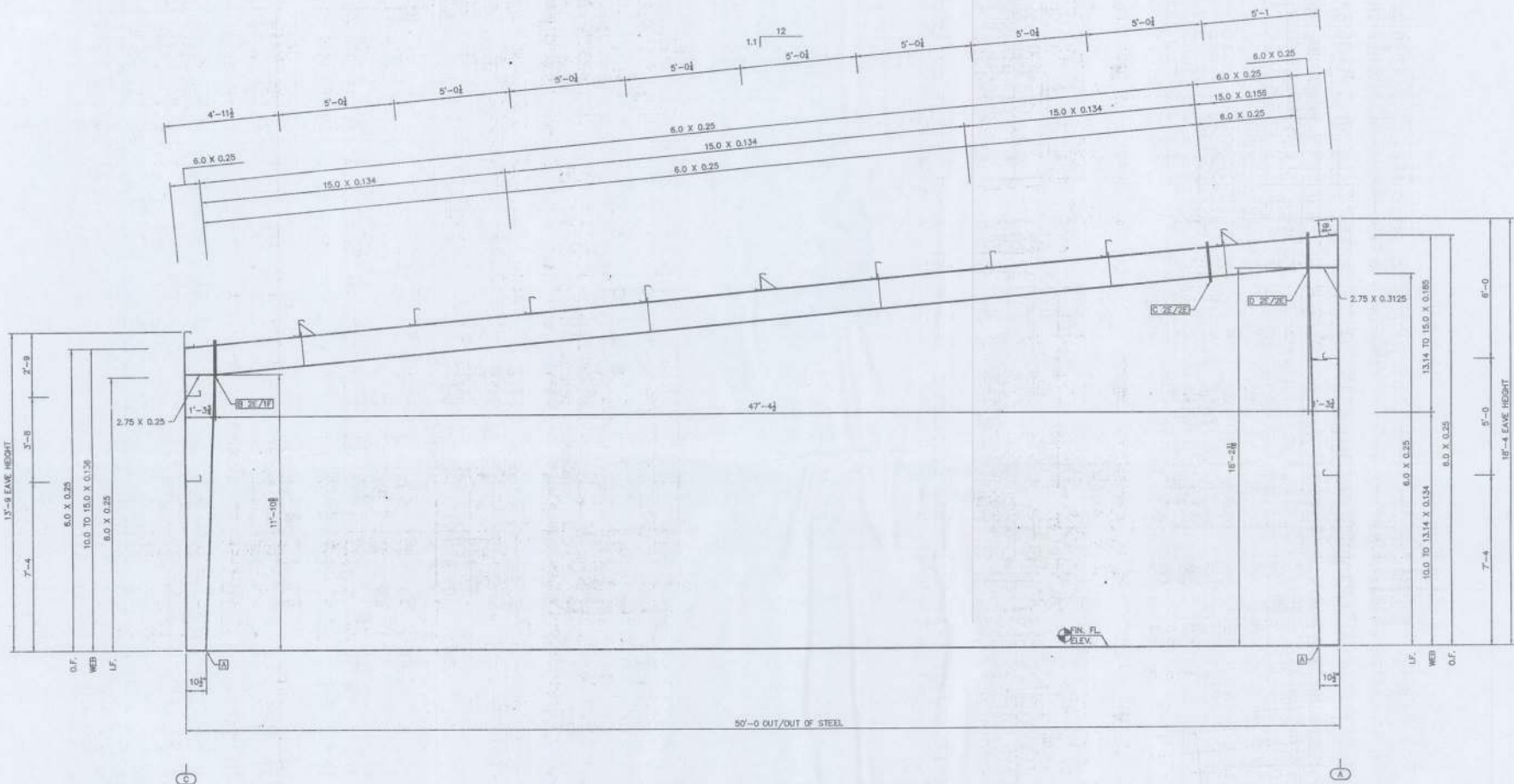
Scale: NOT TO SCALE
 Drawn by: AWS 2/24/14
 Checked by: SF 2/24/14
 Project Engineer: AJM
 Job Number: 14-B-39239-1
 Sheet Number: E9 of 12

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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 LINES "3" & "4"

PLATE SIZE TABLE		SPLICE BOLT TABLE					
CONL.	LOW SIDE	HIGH SIDE	QTY.	SIZE	TYPE	WASHERS USED	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	(6)	2"	A325 B&N	0	0
C	6 X 0.375 X 1'-8 1/2	6 X 0.375 X 1'-8 1/2	(6)	2"	A325 B&N	0	0
D	6 X 0.5 X 1'-8 1/2	6 X 0.5 X 1'-9	(6)	2"	A325 B&N	0	0

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

metallic building company
 200 LAUREL WOODWAY, SUITE 100, WEAVERVILLE, GA 30088
 (770) 962-7100

Project Name & Location:
 TRANS MEDICAL CENTER
 750 A SW MAIN BLVD.
 LAKE CITY, FL 32055

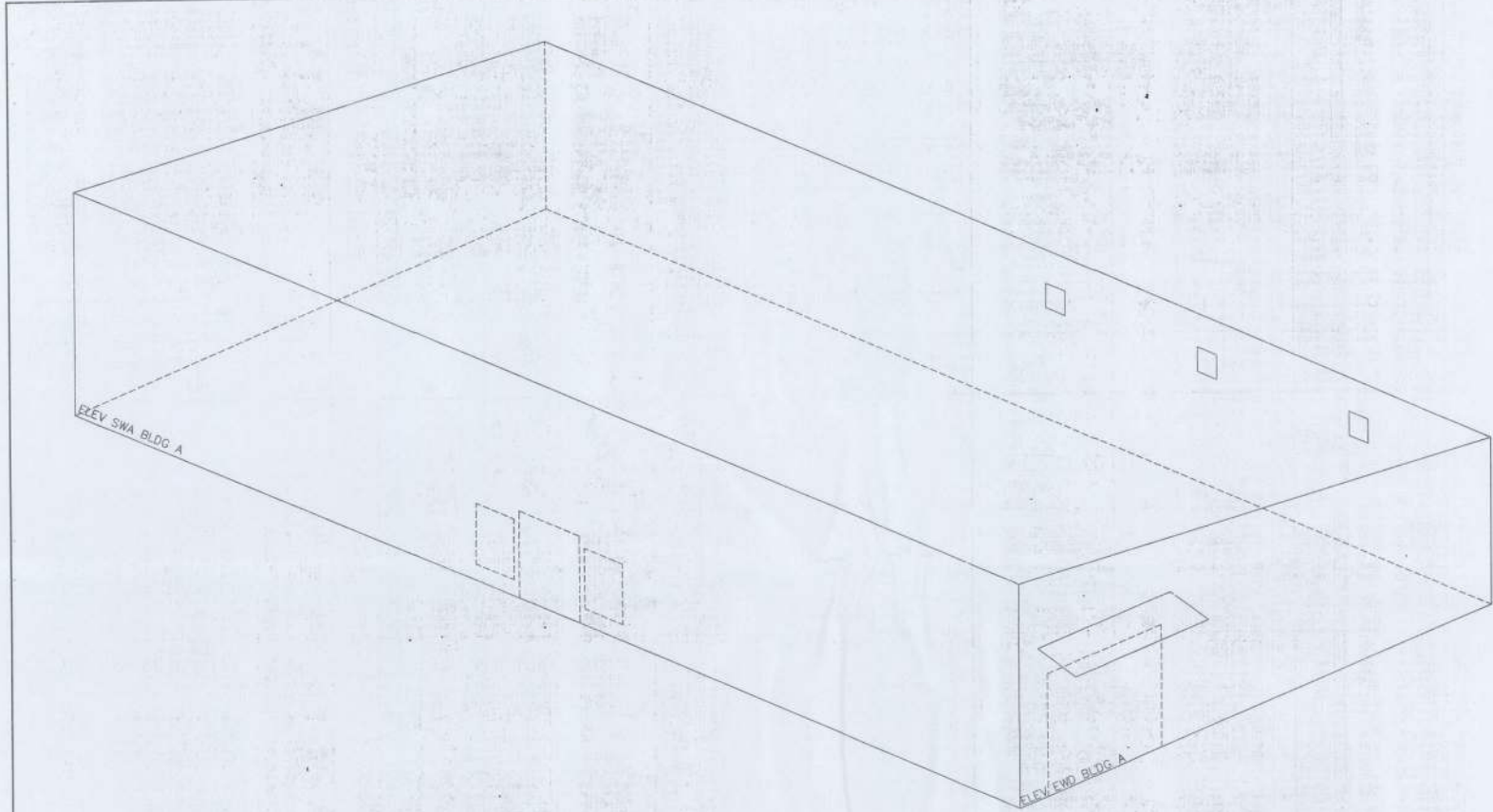
Customer: GUST. GROUP
 1208 SW WASSAU ST.
 LAKE CITY, FL 32055

Drawn by: AMS
 Checked by: SF
 Project Engineer: AXN
 Job Number: 14-B-39239-1
 Sheet Number: E10 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. 88506





↓
 DOWNSPOUT LAYOUT
 [4 REQ'D]

FLASHING LAYOUT

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

METALIC
 metallic building company
 2700 NW 13th Ave, Suite 1000
 Ft. Lauderdale, FL 33309
 Phone: (754) 561-1111
 Fax: (754) 561-1112
 Website: www.metalic.com

Customer: TRANSWORLD GROUP
 7000 W. WINDING ST.
 LAKE CITY, FL 32015

Project: MONETA CLOTHING
 7000 W. WINDING BLDG.
 LAKE CITY, FL 32015

For Approval
 For Construction
 For Construction Permit
 For Exterior Installation

Scale: NOT TO SCALE
 Drawn by: AWS 2/24/14
 Checked by: SF 2/24/14
 Project Engineer: AXN
 Job Number: 14-B-39236-1
 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. 08606

Franz Mutis

FRANZ MUTIS
 LICENSE
 No. 08606
 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:

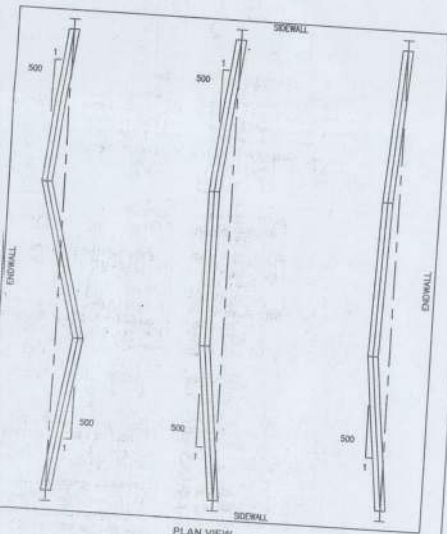
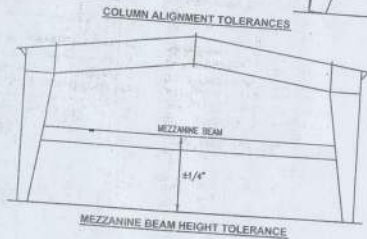
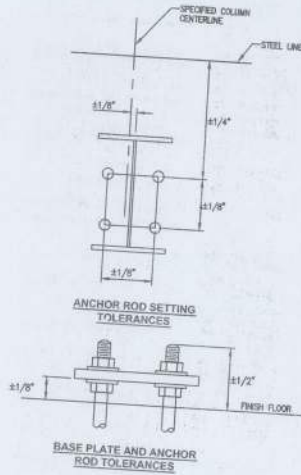
- The variation in dimension between the centers of any two anchor rods within an anchor-rod group shall be equal to or less than 1/8 in. [3 mm].
- The variation in dimension between the centers of adjacent anchor-rod groups shall be equal to or less than 1/4 in. [6 mm].
- The variation in elevation of the tops of anchor rods shall be equal to or less than plus or minus 1/2 in. [13 mm].
- 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].
- 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 7.1.3 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

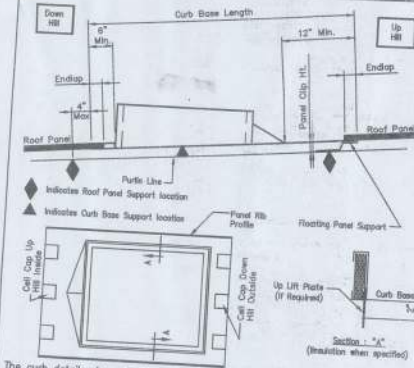
FIELD TOLERANCES

HEIGHT	H/500	(A) TOLERANCE
10'	1/4"	
12'	5/16"	
15'	3/8"	
20'	1/2"	
25'	5/8"	
30'	3/4"	
40'	1 1/8"	
60'	1 7/8"	

COLUMN ALIGNMENT TOLERANCES

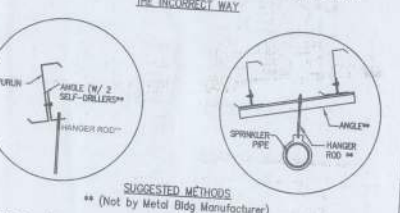
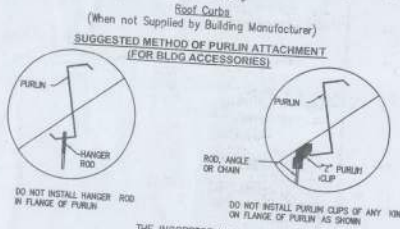
MEZZANINE BEAM

MEZZANINE BEAM HEIGHT TOLERANCE



The curb details shown illustrate the building manufacturer's recommended curb style and installation method. It is the erector's/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:
- .060 Aluminum or 18ga. Stainless (No Galvalume/No Galvanized)
 - Panel rib to rib installation (No flat skit 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:
 - Wind load exceeds 110 mph or
 - Curb base crosses a purlin
 - Supported on (4) four side by primary or secondary framing 6. Max Single Curb weight Recommend = 1500g



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.

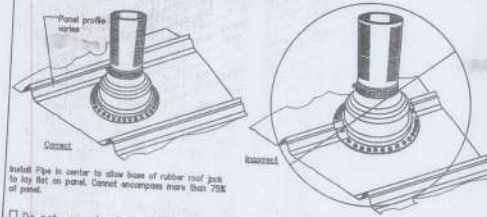
The total hanger load shall not exceed the design collateral load for the building. A sample calculation is shown below:

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

See cover sheet for design collateral load for this building.

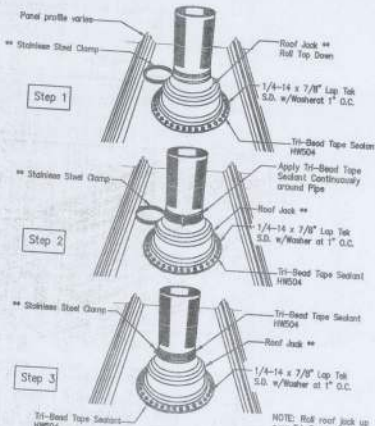
Note: If this building is designed for 0 psf collateral load, then adding any suspended system (i.e. duct work, piping, lights, ceilings, etc.) will correspondingly reduce the design live load.

ROOF JACK INSTALLATION



Install Pipe in center to allow base of rubber roof jack to lay flat on panel. Careful enclosures must limit 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.
- 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 Stitch Screws 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, 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" into 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	CS 2
ANS	SF
Description	FOR CONSTRUCTION PERMIT
Date	02/24/14
Revision	A

metallic building company
 1001 W. 10th St. Ft. Worth, TX 76102
 Phone: 817.735.7777
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Physical Address: 1001 W. 10th St. Ft. Worth, TX 76102
 Office Address: 1001 W. 10th St. Ft. Worth, TX 76102
 Project Name: METALIC GROUP
 MONSTA CLOTHING
 TRAVIS MENDOZA
 1225 SW HASKELL ST.
 DALLAS, TX 75205
 Drawing Date: 02/24/14

For Construction Permit
 For Construction Permit
 For Construction Permit

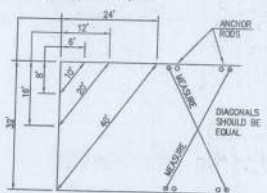
Scale: NOT TO SCALE
 Drawn by: AWS 2/24/14
 Checked by: SF 2/24/14
 Project Engineer:
 Job Number: 14-B-39239-1
 Sheet Number: R2 of 15

The engineer whose seal appears hereon is an employee 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.

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.

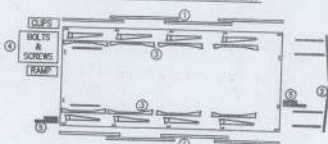
- 7.) Unload and place panels and insulation out of the way.

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.

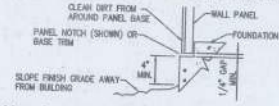
- 2.) Temporary supports, such as temporary guys, braces or other elements shall be the total and complete responsibility of the erector. The temporary supports required shall be determined and furnished by the erector.

- 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 cohesive 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-lapping 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.

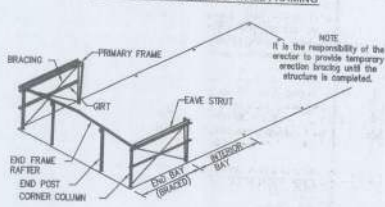
IMPORTANT NOTE:

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



NOTE: It is the responsibility of the erector to provide temporary erection bracing until the structure is completed.

- 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, that brace will be bolted to the girt after the adjacent bay girts are installed. As wall girts are installed around the building, framing for factory loaded

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.

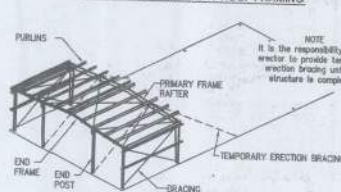
- 1E: Install wall bracing systems (rods, cables, knee bracing, portal bracing) at this time but do not tighten completely until the bay is plumbed.

- 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



NOTE: It is the responsibility of the erector to provide temporary erection bracing until the structure is completed.

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.

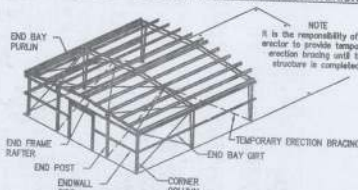
- 2B: Install end bay purlins from end frame rafter to the first interior frame rafter. The end bay purlins will overlap the interior bay purlins at the frame as described in step 1C. Complete flange brace connection to purlins.

- 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



NOTE: It is the responsibility of the erector to provide temporary erection bracing until the structure is completed.

- 3A: After end frame is plumbed and square, install endwall girts and flange braces for end post if required.

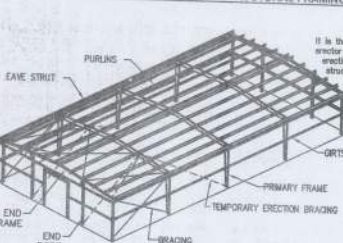
- 3B: Attach wall girts to the primary frame columns (see step 1C).

- 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



NOTE: It is the responsibility of the erector to provide temporary erection bracing until the structure is completed.

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.

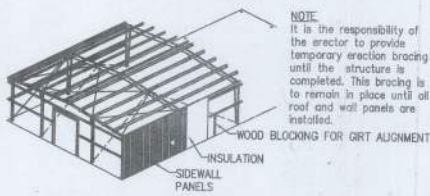
Revision	Date	Description
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Drawn by	AMS	2/24/14
Checked by	SE	2/24/14
Project Engineer		
Job Number	14-0-39239-1	
Sheet Number	R3 of 15	
The engineer whose seal appears herein is an employee for the manufacturer for the materials described herein. Solid 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.		

metallic building company
 320 W. MAIN ST. SUITE 100
 MONROE, LA 70130
 (504) 885-7700

METALLIC
 Customer: CHST GROUP
 Project Name & Location: MONSTA CLOTHING TRAVIS METROS 138 SW MASSAUX ST. FT. LAUDERDALE, FL 33305
 Drawing Status: For Construction For Erection For Approval For Elimination

Scale: NOT TO SCALE

STEP 5: INSTALL SIDEWALL PANELS

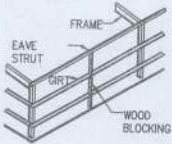


NOTE: It is the responsibility of the erector to provide temporary erection bracing until the structure is completed. This bracing is to remain in place until all roof and wall panels are installed.

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 canning.

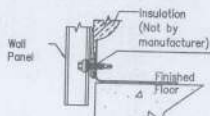


NOTE: Wall panel type and installation details will vary. Refer to the erection drawings and details for the specific panel used for your building.



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.

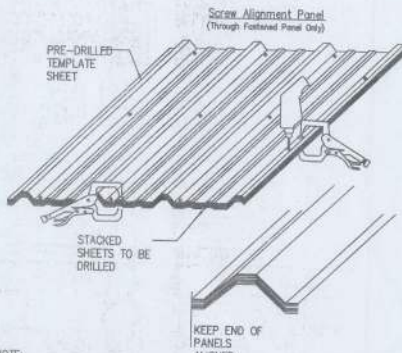
Starting at a building corner, attach the first piece of blanket insulation to the contact tape on the eave strut. Pull tight and adhere to tape at the base. It is recommended that insulation not be installed more than 6 feet ahead of panels.

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.

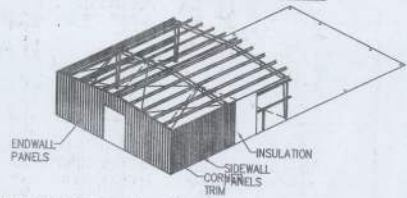
NOTE: Check periodically to ensure that all panels are aligned and plumb.

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.

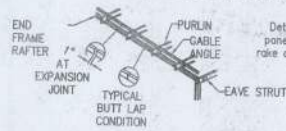
STEP 6: INSTALL ENDWALL PANELS



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.

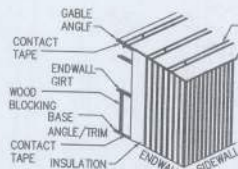
Gable angle splices may occur on or between purlins and the angle must be attached to each purlin and the eave strut.

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.

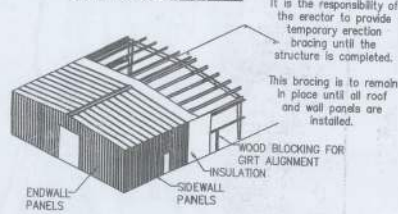
NOTE: At the base cut off the insulation a minimum of 1/2 inch above the bottom of the wall panel. This will prevent the insulation from hanging below the wall panel and wicking moisture.

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 eave to 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 endtags 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.

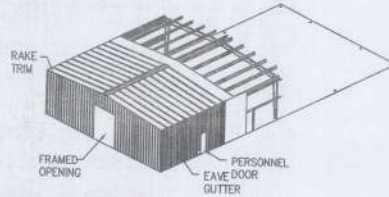
Partially attached or unattached panels should never be walked on!

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.

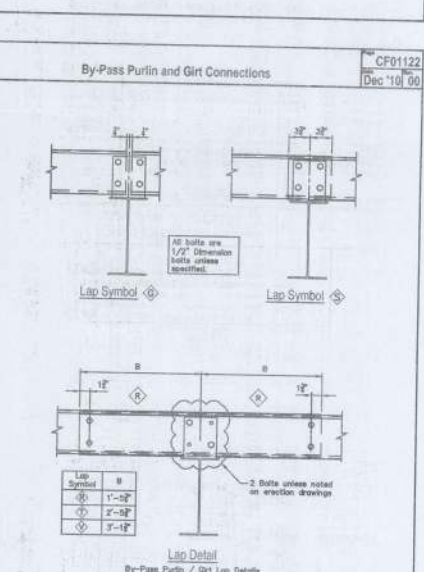
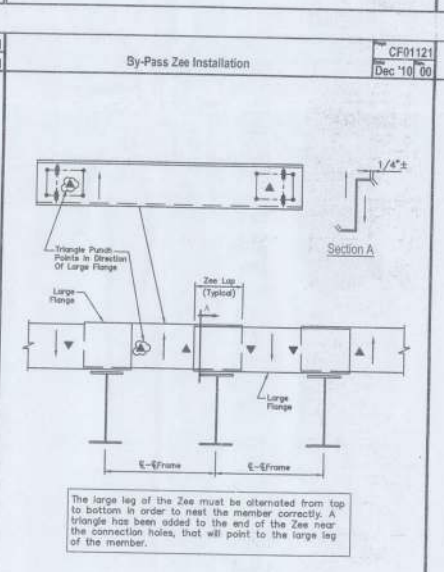
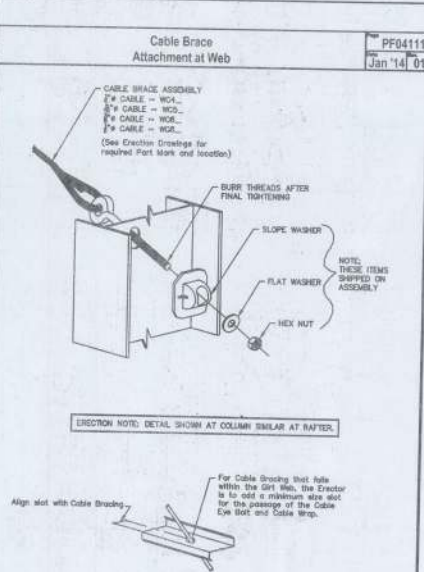
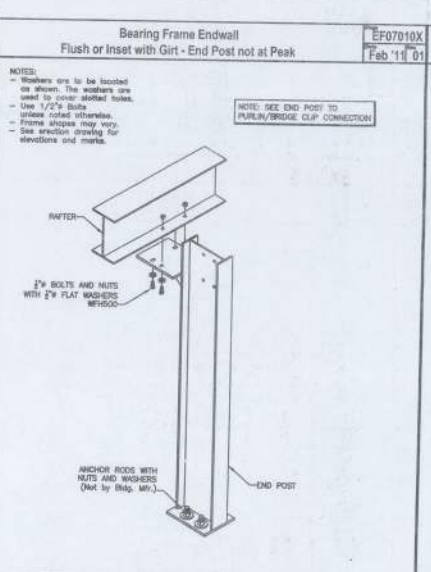
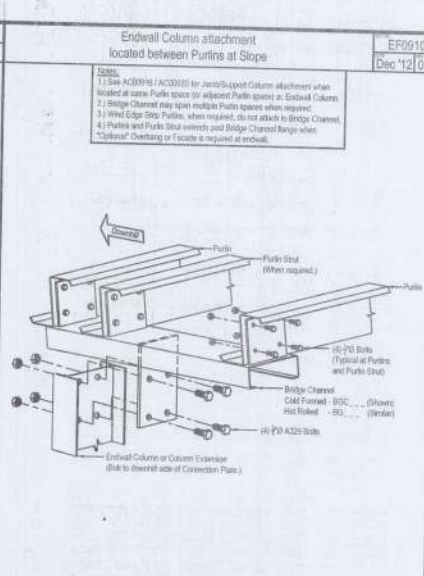
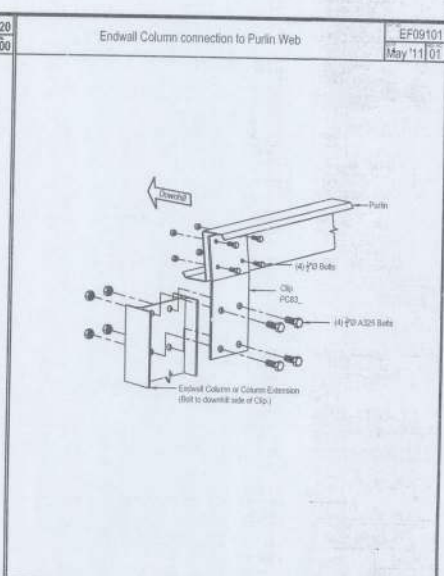
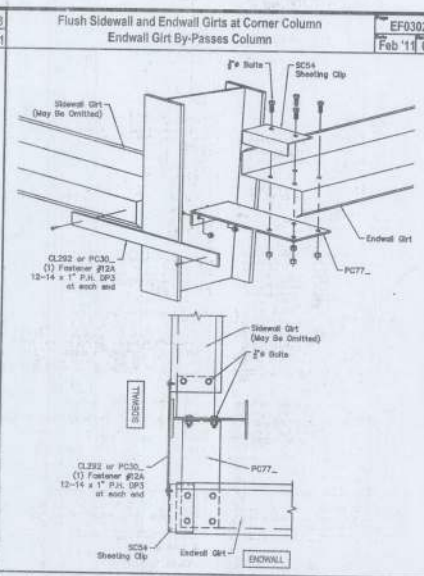
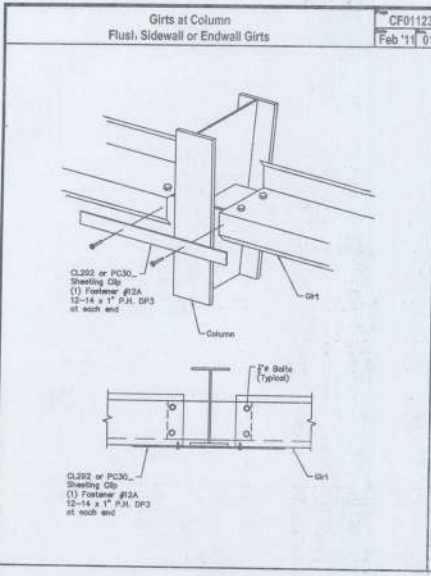
8B: If included with the building, install the eave gutter, corner closures and downspouts.

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.

Revision	A	Date	Description	By	CHK'D
				ANS	SP
12/29/14 FOR CONSTRUCTION PERMIT					
<p>metallic building company 230 LAWRENCE - SUITE 2200 - Ft. LAUDERDALE, FL 33305 (772) 867-0788 - 877-7700</p> <p>Customer: TRADEMARK CONST. GROUP TRAVIS MEDERIOS TRAVIS MEDERIOS 7500 A SW MAIN BLVD. LAKE CITY, FL 32025</p> <p>Project Name & Location: LAKE CITY, FL 32025</p> <p>Drawing Scale: <input type="checkbox"/> As Shown <input checked="" type="checkbox"/> For Construction Permit <input type="checkbox"/> For Erector Installation</p>					
<p>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: R4 of 15</p> <p>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.</p>					



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

Scale: NOT TO SCALE

Drawn by: AWS 2/24/14

Checked by: SF 2/24/14

Project Engineer:

Job Number: 14-B-39238-1

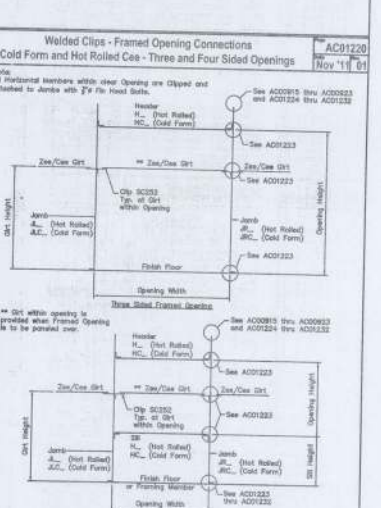
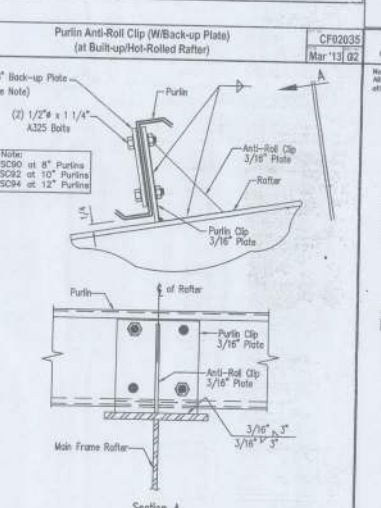
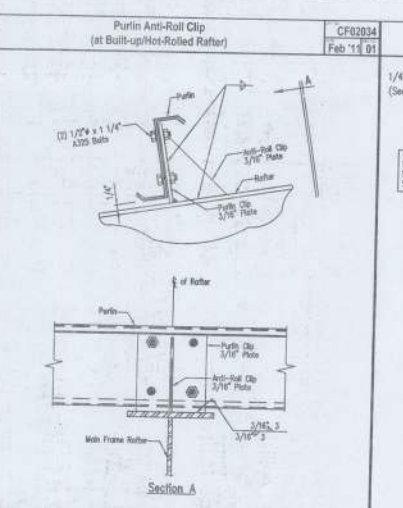
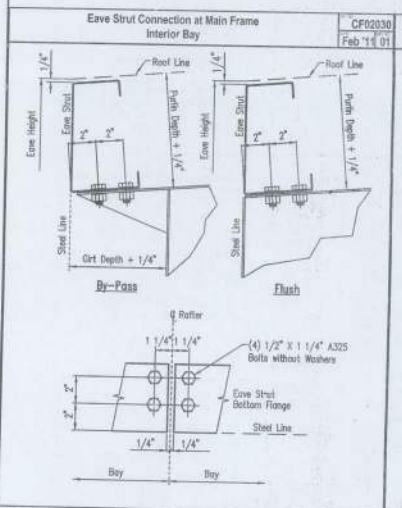
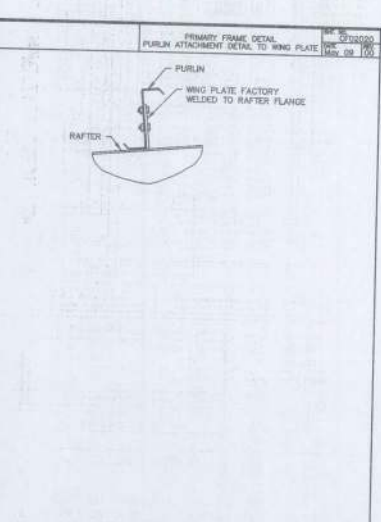
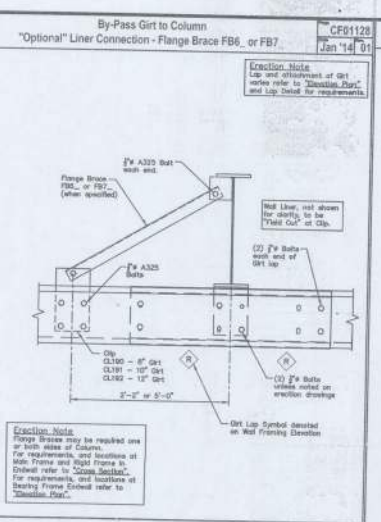
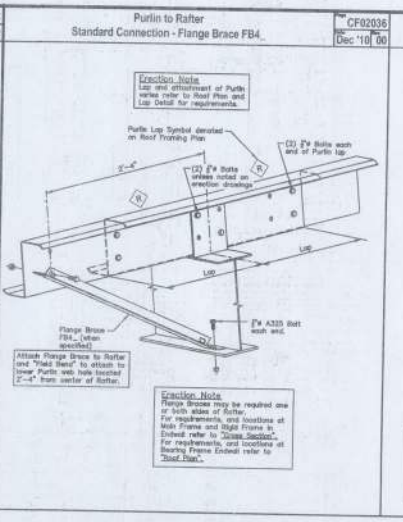
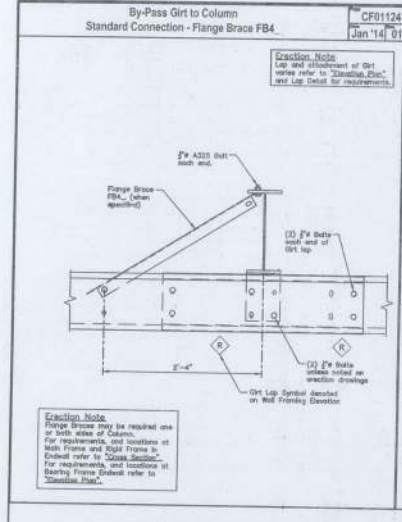
Sheet Number: RS of 15

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.

metallic building company
220 AVENUE A - SUITE 200 • P.O. BOX 4320
SPRINGTOWN, PA 17081
(717) 466-9786 • Fax: 717-466-9788

Project Name & Location:
TRAVERSE MARKS GROUP
TRAVIS MEDERIOS
TRAVIS MEDERIOS
LAKE CITY PL. 30225
LAKE CITY, FL 32025

Drawing Status:
 New For Construction
 Re-Use For Construction
 For Construction Permit
 For Erector Installation



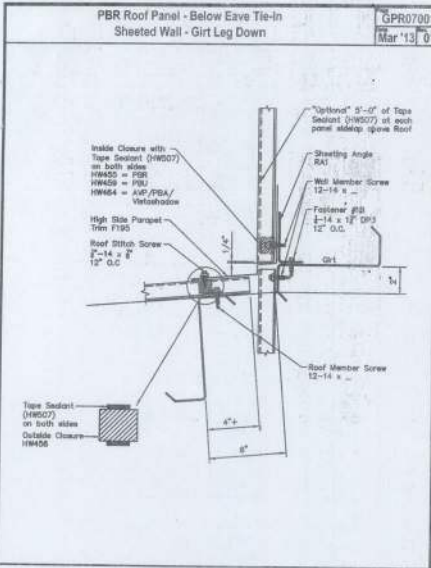
Revision	Date	Description
A	02/24/14	FOR CONSTRUCTION PERMIT

metallic building company
1000 W. WASHINGTON, SUITE 100, ARLINGTON, VA 22204
1000 W. WASHINGTON, SUITE 100, ARLINGTON, VA 22204
1000 W. WASHINGTON, SUITE 100, ARLINGTON, VA 22204
1000 W. WASHINGTON, SUITE 100, ARLINGTON, VA 22204

METALIC
TRADEMARK, GINTI GROUP
1000 W. WASHINGTON, SUITE 100, ARLINGTON, VA 22204
1000 W. WASHINGTON, SUITE 100, ARLINGTON, VA 22204

Scale: NOT TO SCALE
Drawn by: AMS 2/24/14
Checked by: SP 2/24/14
Project Engineer:
Job Number: 14-0-39239-1
Sheet Number: 16 of 15

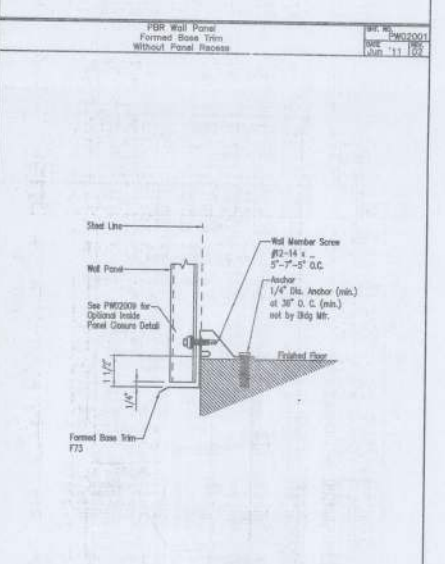
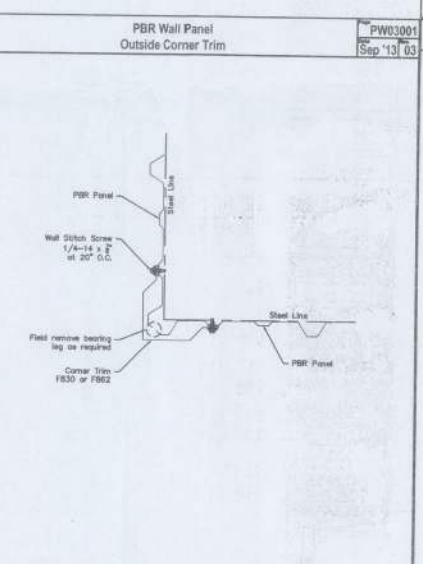
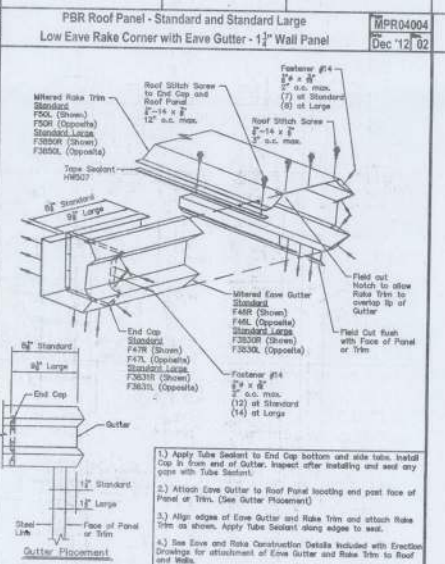
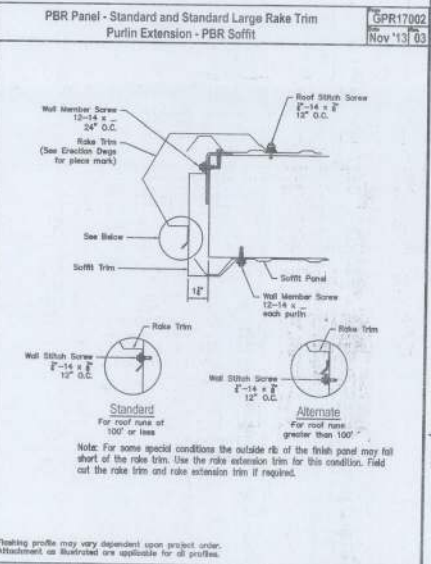
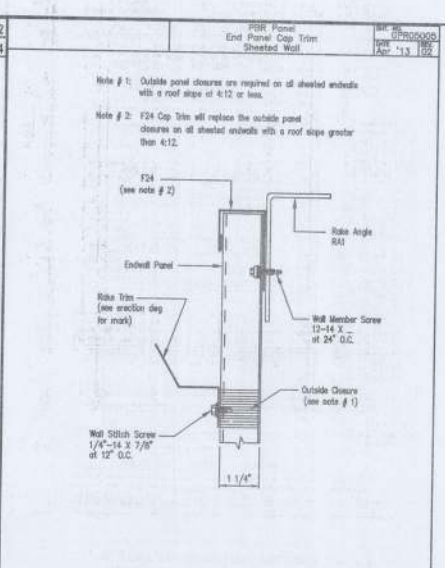
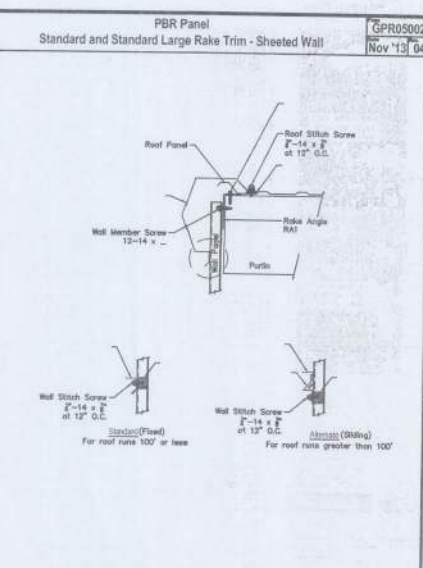
The engineer whose seal appears hereon is an employee of the manufacturer for the materials described herein. Said seal and certification is limited to the products designed and manufactured by manufacturer or by the undersigned engineer is not the overall engineer of record for this project.



SEALANT

TRIM-BEAD TAPE SEALER HW504 3/16" X 7/8" X 25'-0"	FLAT TAPE SEALER HW507 3/32" X 1/2" X 50'-0"	TAPE SEALER - SWAGED HW515 3/16" X 2 1/4" X 6"
TRIPLE BEAD TAPE SEALER HW502 3/16" X 2 1/2" X 20'-0"	FLAT TAPE SEALER HW508 3/32" X 1" X 45'-0"	ButenLok HS
TUBE SEALANT HW540 (White) HW541 (Grey) HW542 (Bronze)	TAPE SEALER MINOR RIB HW512 7/32" X 1 3/8" X 4" DoubleLok	

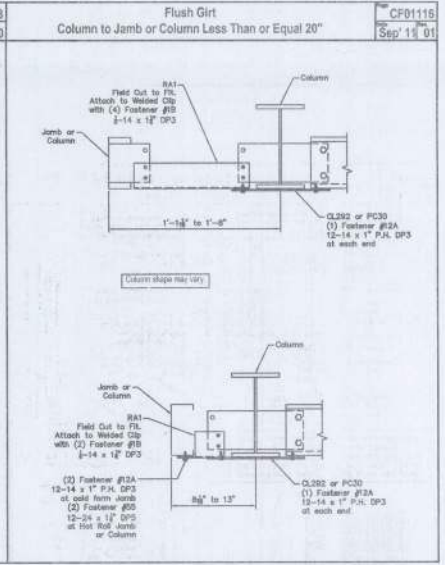
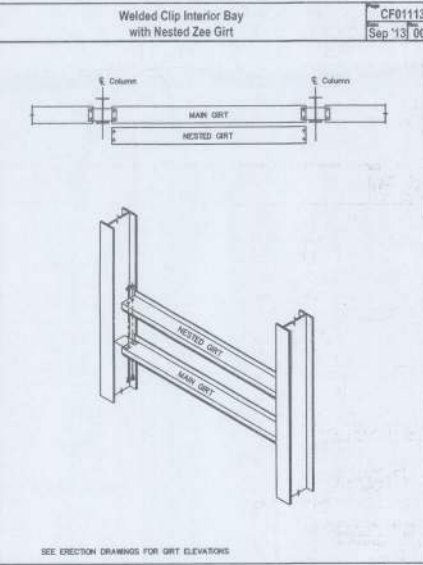
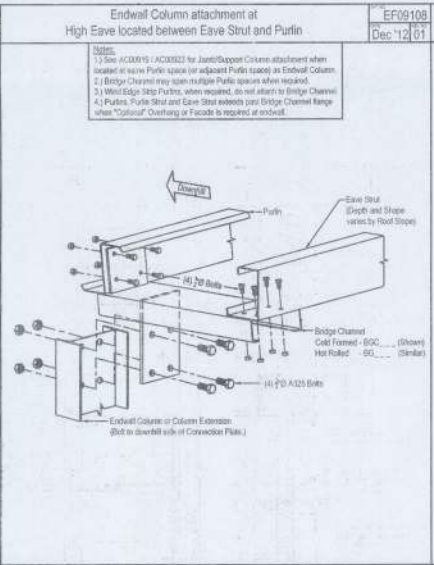
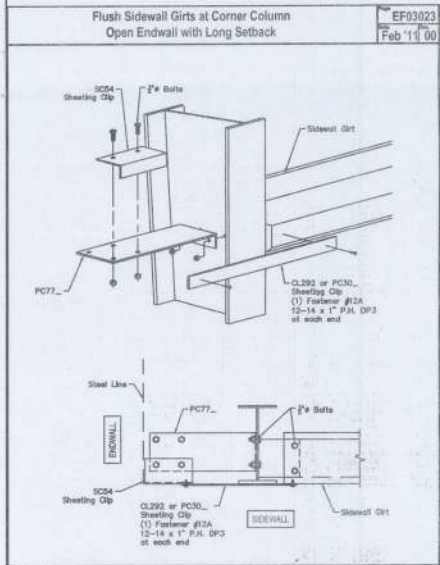
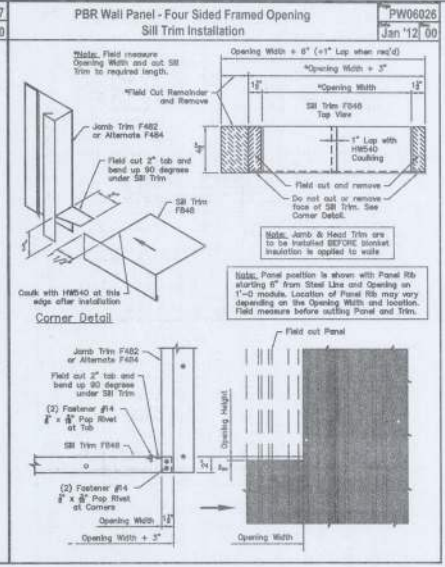
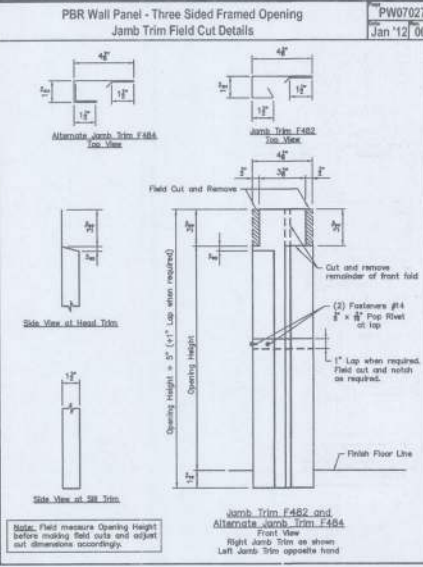
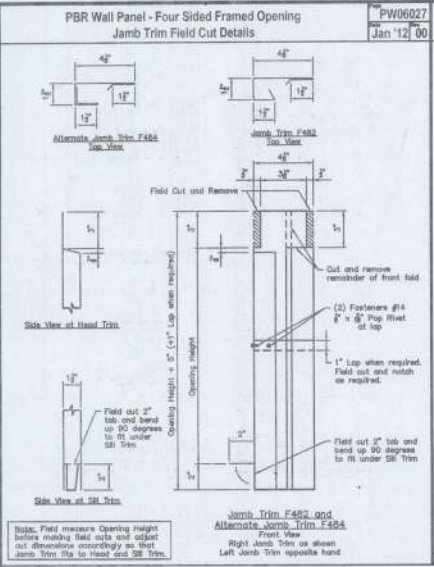
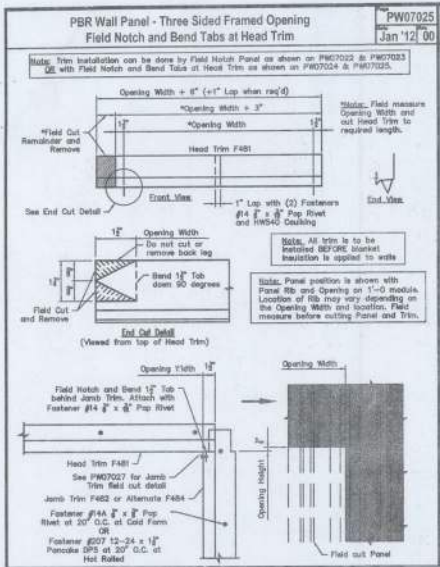
DEKSTRIP 7" WIDE = HW5227
DEKSTRIP 9" WIDE = HW5228
DEKSTRIP 12" WIDE = HW5229
COLOR = Gray
SCREWS 2" O.C. MAX. PERIMETER TAPE SEALANT BOTH SIDES
TUBE SEALANT EACH END
2" x 24GA. TERMINATION STRIP EACH END
DEKSTRIP LENGTH WILL BE AS REQUIRED.
Example:
(1) 7" x 1'-0"
(2) 7" x 3'-0"
ROUND UP TO NEXT 12"



By:	AW/SF
Date:	02/24/14 FOR CONSTRUCTION PERMIT
Revision:	A
Description:	

metalic building company
2700 Lakeshore Dr. W. #1100
Duluth, GA 30096
Project Name & Location:
MONETA CLOTHING
1200 S. W. BEAUFORT BLVD.
LAKE CITY, FL 32025
Customer:
TRADEMARK CNST. GROUP
1200 S. W. BEAUFORT BLVD.
LAKE CITY, FL 32025
Drawing Stator: For Construction Permit For Erector Installation For Construction For Construction

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: R11 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 only. The undersigned engineer is not the overall engineer of record for this project.



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

metallic building company
735 W. MAIN ST. SUITE 100
LAKE CHARLES, LA 70601
713-68-7100

Customer: CHST GROUP
1000 W. MAIN ST.
TRAVIS MEMORIOS
750 A SW MAIN BLVD.
LAKE CITY, FL 32025

Project Name & Location: Erect Construction Permit Erect Installation

Scale: NOT TO SCALE

Drawn by: AWS 2/24/14

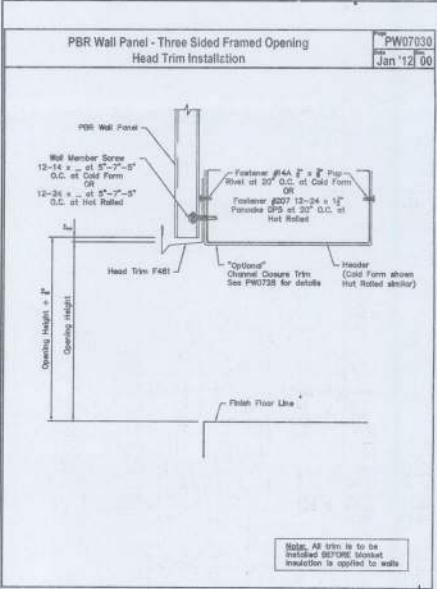
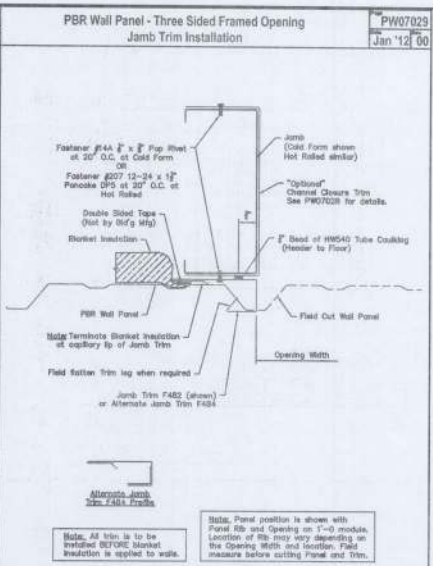
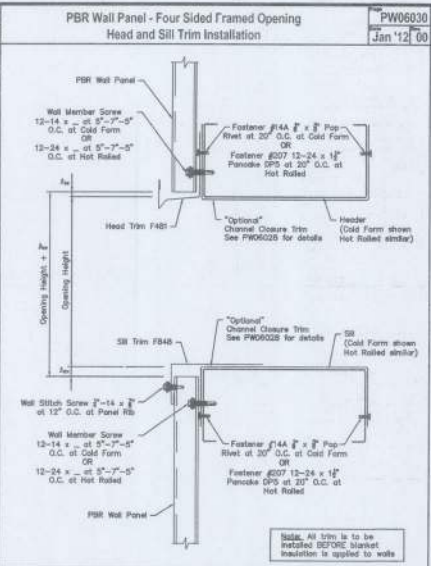
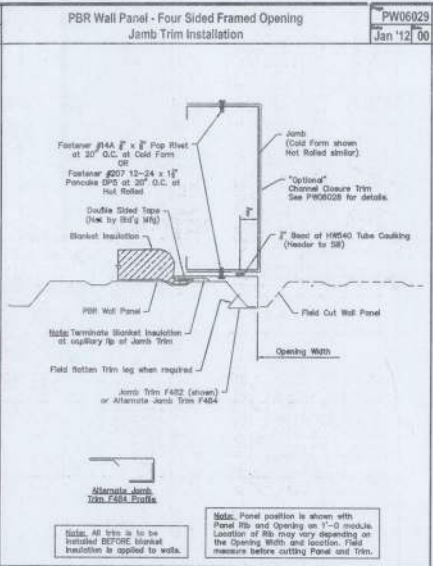
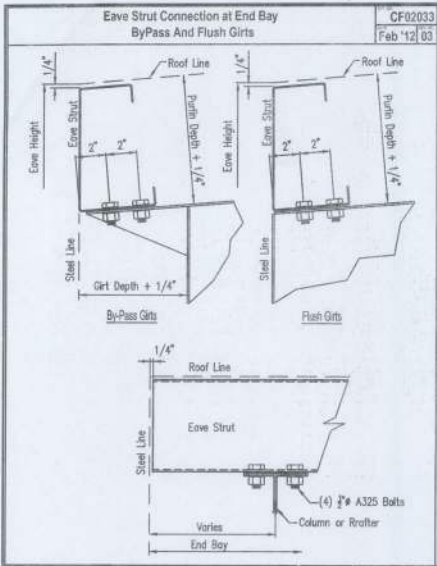
Checked by: SF 2/24/14

Project Engineer:

Job Number: 14-B-39239-1

Sheet Number: R13 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.



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

By: AWS
SF

metallic building company
2077 NW 11th St.
Fort Lauderdale, FL 33305
Phone: 954-344-1111
Fax: 954-344-1112

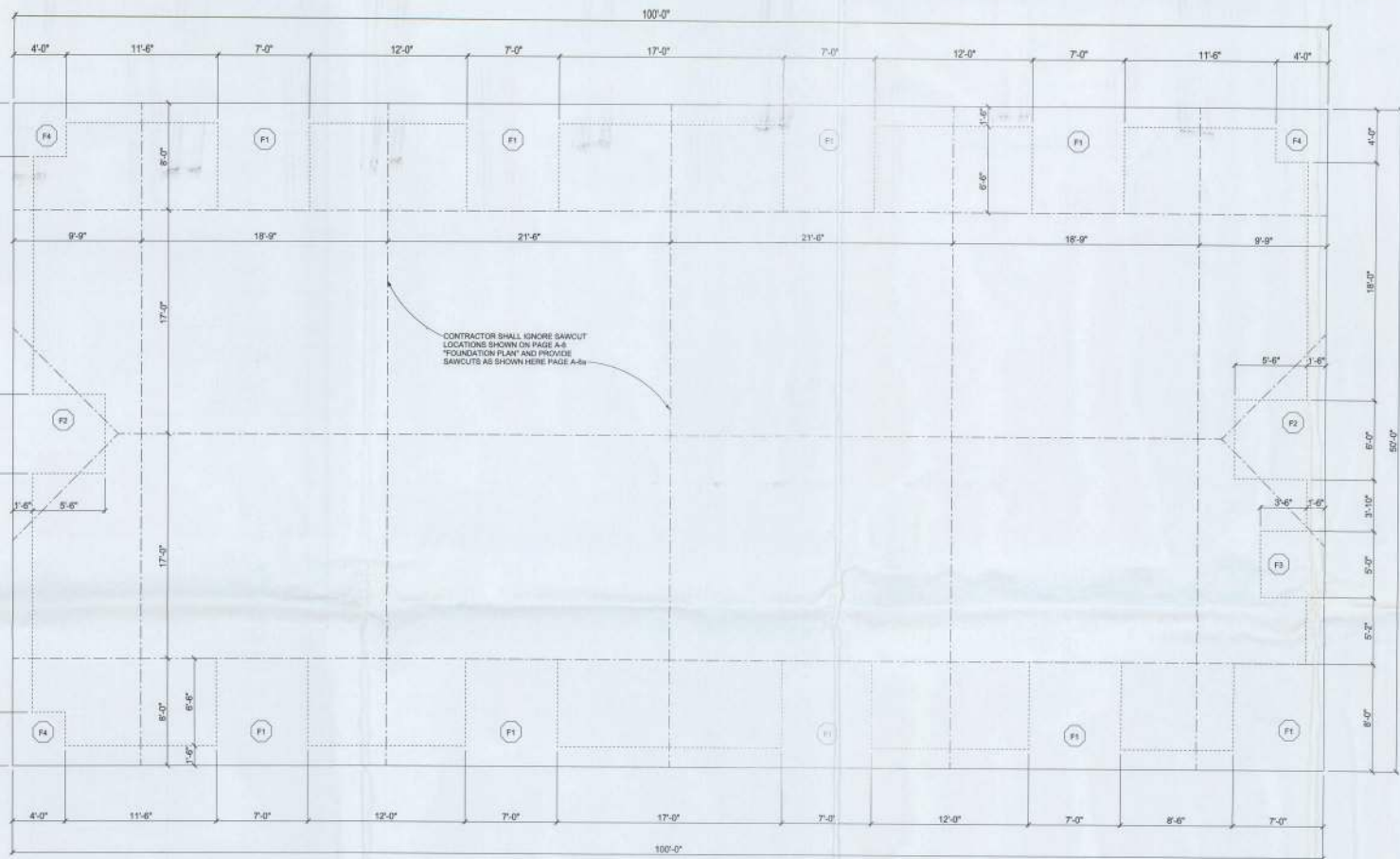
Project Name & Location:
MONSTA CLOTHING
TRAVIS MENDRIS
120 SW MISSISSIPPI ST.
LAKE CITY, FL 32020

Customer:
TRANSEMARK CRST. GROUP
120 SW MISSISSIPPI ST.
LAKE CITY, FL 32020

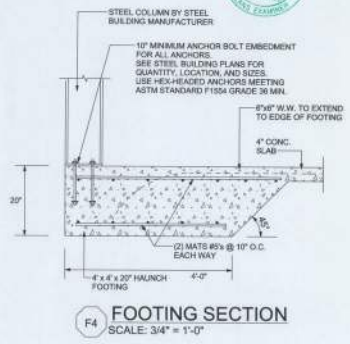
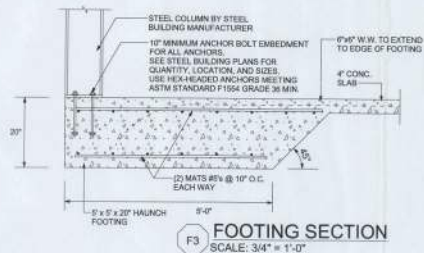
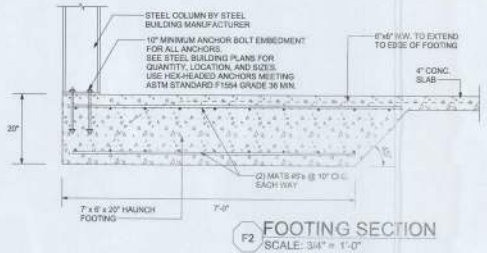
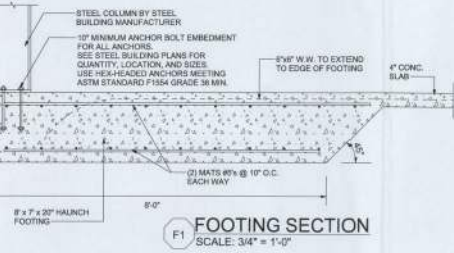
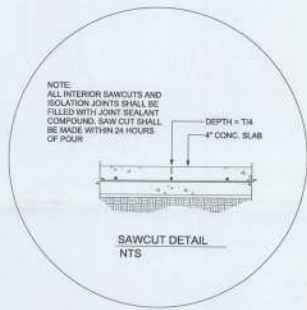
Drawing Status: For Construction Permit For Approval For Contractor/Architect

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. 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.



Revision
31878



REVISIONS		DESCRIPTION	
DATE	BY	DESCRIPTION	



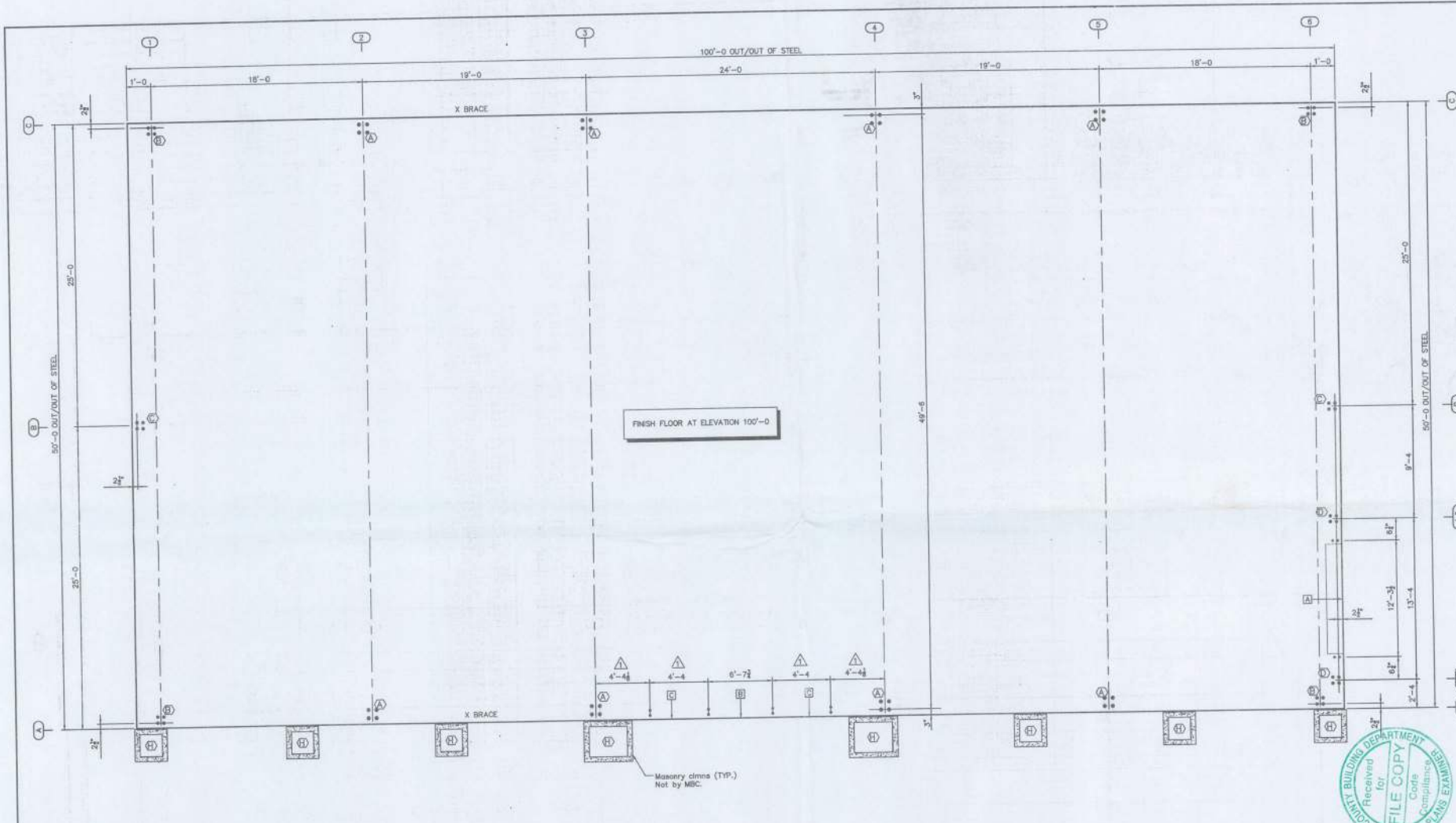
CERTIFICATE OF AUTHORIZATION
NO. 28022
P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085

Brett A. Crews
6/17/2014
Brett A. Crews, P.E. 65592

DRAWN BY:
TM
APPROVED BY:
BC

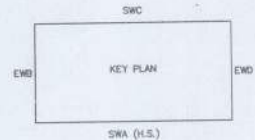
MONSTA CLOTHING
FOOTING PLAN FOR
STEEL COLUMNS

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



ACCESSORY SCHEDULE		
MARK	DESCRIPTION	QUAN.
A	12'-0" X 10'-0" FRAMED OPENINGS	1
B	6'-4" X 7'-2" FRAMED OPENINGS	1
C	4'-0" X 9'-0" FRAMED OPENINGS	2
D	3070 SWING DOORS	1

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



ANCHOR ROD SETTING PLAN

- Anchor Rod Drawings**
- This drawing is for anchor rod placement only and is not foundation design.
 - Foundation must be square and level with all anchor rods true in size, location, and projection.
 - Projection shown must be held to keep threads clear of finished concrete.
 - This structural design data includes magnitude and location of design loads and supports 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.
 - 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.
 - Anchor rods are ASTM F1554 Gr. 36 material unless noted otherwise.



By	CS-1
Drawn by	AWS
Checked by	SF
Project Engineer	AXN
Job Number	14-B-39239-1
Sheet Number	F1 of 3

metallic building company
 20100 W. Lake Nona Blvd., Suite 200
 Lake Nona, FL 32157
 (407) 487-7700

METALIC
 CUSTOMER: TRADEMARK GINT. GROUP
 TRAVIS WOODBROS
 10000 W. Lake Nona Blvd., Suite 200
 Lake Nona, FL 32157

Project Name & Location: MONSTA CLOTHING TRAVIS WOODBROS 10000 W. LAKE CITY FL 32025

Drawing Status: New/Amend. For Construction Permit For Erector Installation

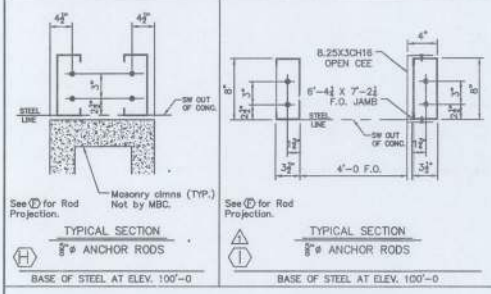
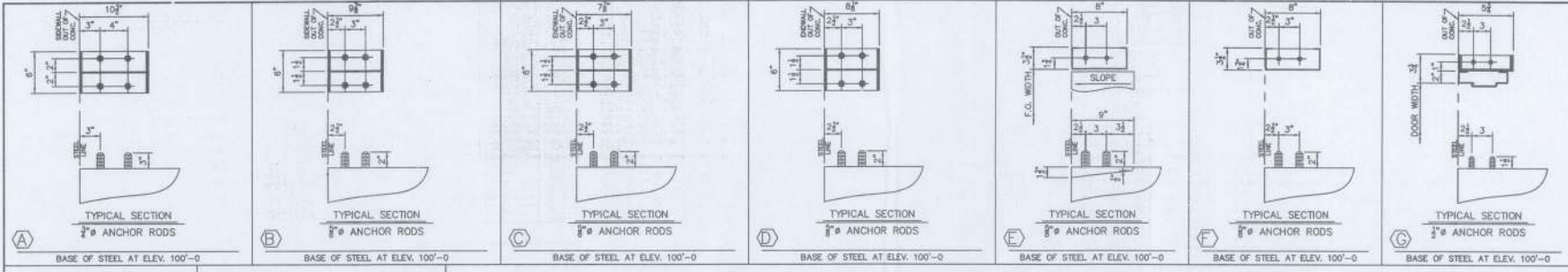
Scale: NOT TO SCALE
 Drawn by: AWS 2/19/14
 Checked by: SF 2/19/14
 Project Engineer: AXN
 Job Number: 14-B-39239-1
 Sheet Number: F1 of 3

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. 68605

REVISÉD





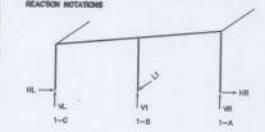
Revision	Date	Description	By	CHK
0	02/19/14	FOR ERECTOR INSTALLATION	AWS	SF
1	02/21/14	REVISED FOR ERECTOR INSTALLATION	AWS	SF

metallic building company <small>781 PARKWAY • WADSWORTH, TEXAS • P.O. BOX 6000 2817 W. PARKWAY • DALLAS, TEXAS • 75243</small>	METALLIC <small>Division of: TRANSMARK CONST. GROUP TRANS MENDOZAS 1100 W. WOODWAY BLVD. DALLAS, TEXAS 75243</small>	<small>Project location: MARIETTA COLONY TRANS MENDOZAS 1100 W. WOODWAY BLVD. DALLAS, TEXAS 75243</small>	<input type="checkbox"/> For Contractor Permit <input checked="" type="checkbox"/> 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. 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 Mutix, P.E. Florida P.E. 68606	
---	--

FRAME DESCRIPTION
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 DATE: 2/12/14
 FILE: 13-36-20
 PROJECT: 14-B-36239-1

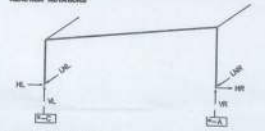


LOAD GROUP REACTION TABLE

LOAD GROUP	HL	VL	LL	HR	VR	LR
D	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0
L	0.1	1.8	0.0	0.0	0.0	0.0
W	-0.1	-0.1	0.0	0.0	0.0	0.0
W1	-0.1	-0.1	0.0	0.0	0.0	0.0
W2	-0.1	-0.1	0.0	0.0	0.0	0.0
W3	-0.1	-0.1	0.0	0.0	0.0	0.0
W4	-0.1	-0.1	0.0	0.0	0.0	0.0

LOAD GROUP DESCRIPTION
 D : DEAD LOAD
 C : COLLATERAL LOAD
 L : LIVE LOAD
 W : WIND LOAD AS AN INWARD ACTING PRESSURE
 W1 : WIND LOAD AS AN OUTWARD ACTING SUCTION
 W2 : WIND FORCE FROM THE RIGHT
 W3 : WIND FORCE FROM THE LEFT

FRAME ID #1
 USER NAME: gregg
 DATE: 2/12/14
 FILE: 13-36-20
 PROJECT: 14-B-36239-1

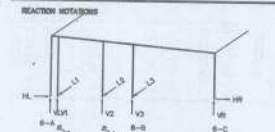


LOAD GROUP REACTION TABLE # = 3 4

LOAD GROUP	HL	VL	LL	HR	VR	LR
D	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0
L	0.1	1.8	0.0	0.0	0.0	0.0
W	-0.1	-0.1	0.0	0.0	0.0	0.0
W1	-0.1	-0.1	0.0	0.0	0.0	0.0
W2	-0.1	-0.1	0.0	0.0	0.0	0.0
W3	-0.1	-0.1	0.0	0.0	0.0	0.0
W4	-0.1	-0.1	0.0	0.0	0.0	0.0

LOAD GROUP DESCRIPTION
 DL : Roof Dead Load
 CL : 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 : Longitudinal Primary Wind Load
 W6 : Upward Acting Roof Snow Load from Longitud. Wind
 W7 : Longitudinal Primary Wind Load
 W8 : Longitudinal Primary Wind Load
 W9 : Longitudinal Primary Wind Load
 W10 : Downward Acting Roof Snow Load from Longit. Wind

FRAME DESCRIPTION
 USER NAME: gregg
 DATE: 2/12/14
 FILE: 13-36-20
 PROJECT: 14-B-36239-1



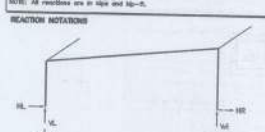
LOAD GROUP REACTION TABLE

LOAD GROUP	HL	VL	LL	HR	VR	LR
D	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0
L	0.1	1.8	0.0	0.0	0.0	0.0
W	-0.1	-0.1	0.0	0.0	0.0	0.0
W1	-0.1	-0.1	0.0	0.0	0.0	0.0
W2	-0.1	-0.1	0.0	0.0	0.0	0.0
W3	-0.1	-0.1	0.0	0.0	0.0	0.0
W4	-0.1	-0.1	0.0	0.0	0.0	0.0

LOAD GROUP DESCRIPTION
 D : DEAD LOAD
 C : COLLATERAL LOAD
 L : LIVE LOAD
 W : WIND LOAD AS AN INWARD ACTING PRESSURE
 W1 : WIND LOAD AS AN OUTWARD ACTING SUCTION
 W2 : WIND FORCE FROM THE RIGHT
 W3 : WIND FORCE FROM THE LEFT
 W4 : WIND FORCE FROM THE LEFT

NOTES
 1) 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 CHANGES.
 2) THE REACTIONS PROVIDED HAVE BEEN CREATED WITH THE FOLLOWING LAYOUT (UNLESS NOTED OTHERWISE):
 a) A REACTION TABLE IS PROVIDED WITH THE REACTIONS FOR EACH LOAD GROUP.
 b) REAR FRAMES.
 c) GARAGED BUILDINGS
 (1) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF MEMBERS THE LEFT SIDE OF THE BUILDING, AS SHOWN ON THE ANCHOR ROD DRAWING FROM THE OUTSIDE OF THE BUILDING.
 (2) EXTERIOR COLUMNS ARE SPACED FROM LEFT SIDE TO RIGHT SIDE.
 (3) LEFT COLUMN IS THE LOW SIDE COLUMN.
 (4) RIGHT COLUMN IS THE HIGH SIDE COLUMN.
 (5) ANCHOR RODS ARE SPACED FROM LOW SIDE TO HIGH SIDE.
 d) SNOWLOADS
 (1) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF MEMBERS THE WALL FROM THE OUTSIDE.
 (2) EXTERIOR COLUMNS ARE SPACED FROM LEFT TO RIGHT.
 (3) 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.
 (4) ANCHOR RODS ARE ASTM A307 GR. 36 MATERIAL UNLESS NOTED OTHERWISE ON THE ANCHOR ROD LAYOUT DRAWING.
 e) X-BRACING
 (1) ROD BRACING REACTIONS HAVE BEEN INCLUDED IN VALUES SHOWN IN THE REACTION TABLES.
 (2) FOR IBC AND UBC BASED BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE SIDEWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (RUBPED AND RBWEO) DO NOT INCLUDE THE AMPLIFICATION FACTOR, 1.6.
 (3) FOR CANADA BUILDING CODE (NBC), WHEN X-BRACING IS PRESENT IN THE SIDEWALL OR ENDWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (RUBPED & RBWEO) ARE MULTIPLIED BY FORCE REDUCTION ACCELERATION RATIO (M-FAC) IS GREATER THAN 0.45.
 3) 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.
 4) FOR PROJECTS USING ULTIMATE DESIGN WHO SHARE SUCH AS 2012 IBC OR 2010 FLORIDA BUILDING CODE, THE WIND LOAD REACTIONS ARE AT A SEISMIC VALUE WITH A LOAD FACTOR OF 1.0.
 THE MANUFACTURER DOES NOT PROVIDE "MAXIMUM" LOAD COMBINATIONS HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE USED BY THE FOUNDATION ENGINEER TO DETERMINE THE APPLICABLE LOAD COMBINATIONS FOR MEMBER DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION DESIGN.

FRAME ID #1
 USER NAME: gregg
 DATE: 2/12/14
 FILE: 13-36-20
 PROJECT: 14-B-36239-1



LOAD GROUP REACTION TABLE # = 2 3

LOAD GROUP	HL	VL	LL	HR	VR	LR
D	0.0	0.0	0.0	0.0	0.0	0.0
C	0.0	0.0	0.0	0.0	0.0	0.0
L	0.1	1.8	0.0	0.0	0.0	0.0
W	-0.1	-0.1	0.0	0.0	0.0	0.0
W1	-0.1	-0.1	0.0	0.0	0.0	0.0
W2	-0.1	-0.1	0.0	0.0	0.0	0.0
W3	-0.1	-0.1	0.0	0.0	0.0	0.0
W4	-0.1	-0.1	0.0	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 : Lateral Primary Wind Load
 W7 : Lateral Primary Wind Load

metallic building company
 1200 PARKWAY, SUITE 100, JACKSONVILLE, FL 32216
 (904) 766-7700
 Project Name & Location: TRADEMARK COST GROUP, TRAVIS METROS, TRAVIS METROS, TRAVIS METROS, JACKSONVILLE, FL, 32225
 Drawing Status: Preliminary, For Construction, For Construction Permit, For Construction, For Construction

Scale: NOT TO SCALE
 Drawn by: AWS 2/10/14
 Checked by: SF 2/19/14
 Project Engineer: AXN
 Job Number: 14-B-36239-1
 Sheet Number: F3 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. 68806



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 WARRANTY 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 FEE 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 CONTRACTOR(S) 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, CONTRACTOR(S) 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	
GROUP B (ASSEMBLY LESS THAN 50)	REQUIRED	PROVIDED
MAX. TRAVEL DIST. (TABLE 1008.1)	200 FT	MAX. 144'
MAX. DEAD-END CORRIDOR (FBC 1016.4)	NA	NA
TOTAL # OF EXITS (TABLE 1021.1)	2	4
EGRESS WIDTH PER PERSON LEVEL (TABLE 1009.1)	0.2	104"
MIN. CLEAR OPENING OF EXIT DOORS (FBC 1008.1.1)	32"	34"

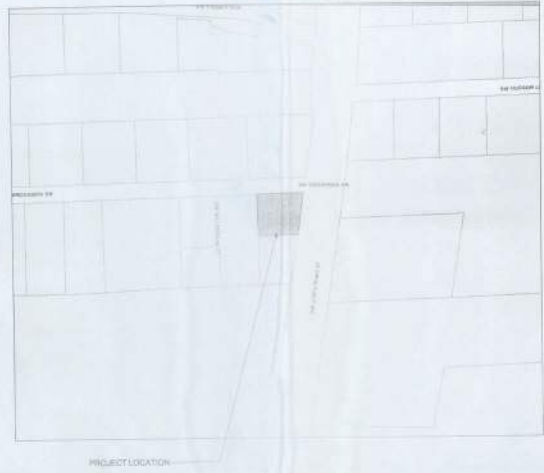
LIFE SAFETY NOTES

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

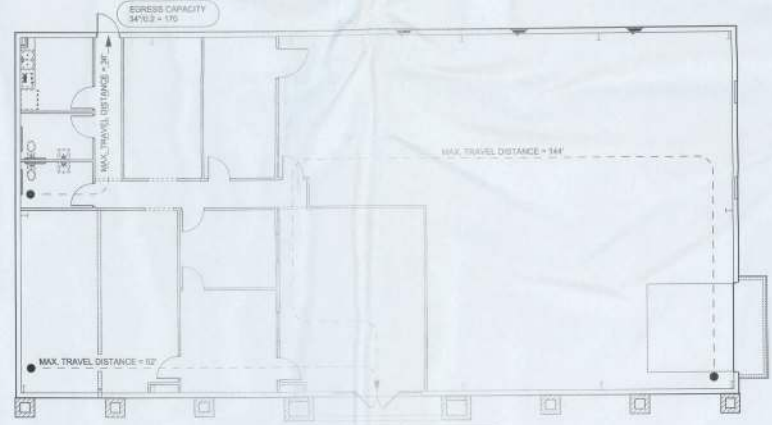
ACCESS TO EXITS SHALL BE MARKED BY APPROVED READILY VISIBLE SIGNS IN ALL CASES WHERE THE EXIT OR WAY TO REACH THE EXIT IS NOT READILY APPARENT TO THE OCCUPANTS. SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN THE EXIT ACCESS CORRIDOR IS MORE THAN 100 FT FROM THE NEAREST EXTERNALLY ILLUMINATED SIGN AND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

<p>A.B. Anchor Bolt Abv. Above A/C Air-Conditioner Adj. Adjustable A.F.F. Above Finished Floor A.H.U. Air Handler Unit ALT. Alternate B.C. Base Cabinet B.F. Metal Door Bk Sh Book Shelf Bn Beam BOT Bottom B.P. Bypass door Bsp Bearing C/C Chair C/Cg Ceiling C/C Column Comp. A/C Compressor C.T. Ceramic Tile D Dryer Dec. Decorative Ded. Dedicated Outlet Dbl. Double Dm. Diameter Disp. Disposal Dist. Distance D.S. Drawer Stack D.V. Dryer Vent D.W. Dishwasher E. Each E.N. Each Way Elec. Electrical Elev. Elevation Ext. Exterior Exp. Expansion F.B.C. Florida Bldg. Code Fin. Fl. Finished Floor F.G. Fixed Glass</p>	<p>Flr. Floor Fdn. Foundation Flr. Sys. Floor System F.F. Finstrate Fl. Foot / Feed Footing Flx. Flashed Galv. Galvanized G.C. General Contractor G.F.I. Ground Fault Interrupter G.T. Gilder Truss Hh. Header Hght. Height Hse Sbb House Sill Inldr Inlaid K/Wall Kneewall K.S. Knee Space Lavn. Laundry Lavn. Laundry L.F. Linear FL L.T. Laundry Tub Msk. Masonry Max. Maximum M.C. Medicine Cabinet MDP Master Distribution Panel Mfg. Manufacturer Mn. Minimum M.L. Midsom Mk. Minor MonoBldg. Monolithic N.T.S. Not to Scale Oprg. Opening Opt. Optional P.C. Pipe Ped. Pedestal P.L. Paralelm P.L.F. Pounds per linear foot</p>	<p>Pl. Ht. Plumb Height P.S. Ply Sheat PSF Pounds per square foot P.T. Pressure Treated Pow. Powder Room Rad. Radiat Ref. Refrigerator Req'd. Required Rm. Room Roc. Round RSH Roof and Shelf SD Smoke Detector Sq. Ft. Square Ft. Sh. Shelvas SHT Sheet S.L. Side Lights S.P.F. Spruce Pine Fir Sq. Square S.Y.P. Southern Yellow Pine Temp. Temp. Thick. Thickness T.O.B. Top of Block T.O.M. Top of Masonry T.O.P. Top of Plate Trns. Transition Window Typ. Typical UCL Under Cabinet Lighting U.N.O. Unless Noted Otherwise Vary. Vary Size Vert. Vertical V.L. Vanilium VTR Vent through Roof W. Washer W/O. Without WC Water Closet W.A. Wedge Anchor Wd. Wood WP Water Proof</p>
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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 2370 SF @ 100 SF/PERSON	24
MECHANICAL STOCK STORAGE USE 3758 SF @ 300 SF/PERSON	13
TOTAL OCCUPANT LOAD:	37 PERSONS



INDEX OF SHEETS	
SHEET	DESCRIPTION
LS-B	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	PLUMBING 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 32856
PHONE: 386.754.4055



DRAWN BY: TM	MONSTA CLOTHING	DESIGN PROJECT NO.: 2013-015
APPROVED BY: BC		SHEET: LS-1
COVER SHEET AND LIFE SAFETY		

GENERAL NOTES:

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER PERIODIC 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 KEYED AT EACH LOCATION. THE ENGINEER SHALL HAVE FINAL AUTHORITY TO DETERMINE APPLICABILITY OF TYPICAL DETAILS.
- WHERE CONFLICTS EXIST BETWEEN STRUCTURAL DOCUMENTS AND THE STRUCTURE 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 DEFINE 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 RECORDS, OR PROCEDURES, OR PROGRAMS FOR THE ACTIONS 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 SHOULD 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 ZONED SOILS SHALL BE STRIPPED AND REMOVED FROM THE CONSTRUCTION AREA FOR A DISTANCE OF AT LEAST 5 FEET BEYOND THE EXTERIOR OF BUILDING FOUNDATION LIMITS. 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 PASSAGES 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 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 HORIZONTAL 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 LOOSE 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 BE ACHIEVED BY MAKING BLENDED PASSAGES WITH A RELATIVELY LIGHTWEIGHT VIBRATORY BLEED OR ROLLER COMPACTOR.
- UNLESS NOTED, ALL FOOTINGS SHALL BE CENTERED UNDER COLUMNS, PIERS AND WALLS.
- SLAB-ON-GRADE CONSTRUCTION SHALL BE SUPPORTED ON SURGRADE COMPACTION 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 10 PSF PER FOOT OF DEPTH AND AN ASSUMED SURCHARGE OF 200 PSF. DESIGN ASSUMES WET GRADED 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'S SHALL BE LOAD BEARING TYPE CONFORMING TO ASTM C-91 OR HAVING A MINIMUM COMPRESSIVE STRENGTH OF 1900 PSI (NET AREA).
- MORTAR SHALL CONFORM TO ASTM C-270 TYPE S.
- PLAN ENDS TWO CELLS/UNITS SHALL BE USED FOR BLOCKS THAT ARE TO HAVE CELLS REINFORCED AND FILL WEB SHELLS ADJACENT TO CELLS THAT ARE TO BE FILLED ARE TO BE BEDED IN WORK.
- FILL CELLS AS NOTED ON DRAWINGS WITH 3000 PSI GROUT, OR GROUT CONFORMING TO ASTM C-418 SPECIFICATION/DESIGNED FOR FILLING OF CELLS.
- IN BRUICING VERTICAL BLS, LAP ENDS, IN PLACE IN CONTACT AND WIRE TIE TOGETHER OR USE BAR POSITIONING. IF BARS BEHIND FACE IN THE PLANE OF THE WALL TO MAINTAIN PROPER COVER.
- SEE PRIMARY CODE, SPECIFICATIONS AND DRAWINGS FOR GROUTING PROCEDURES.
- INSTALLATION OF CONCRETE MASONRY SHALL BE COMPATIBLE WITH ALL APPLIED FINISHES SUCH AS STUCCO OR PAINT. DO NOT SPRING WALLS WITHOUT PROPER CLEANING COMPATIBLE WITH FINISHES.
- PROVIDE GALVANIZED WIRE TYPE HORIZONTAL JOINT REINFORCING AT 18" O.C. (BARS) AND AS INDICATED ON ARCHITECTURAL DRAWINGS. PROVIDE HOT DIP GALVANIZED HUR ON ALL EXTERIOR WALLS. IN ADDITION TO SCHEDULED OR DETAILER UNITS AND ALL REINFORCING PROVIDE TWO LAYERS OF HUR AT 8 INCHES ON CENTER ABOVE AND BELOW ALL UNITS AND SILLS WHICH SPAN MORE THAN 12 INCHES. EXTEND ABOVE HUR 24 INCHES BEYOND THE OPENING JAMBS EXCEPT AT WCI.
- MASONRY BOND BEAMS AND CONCRETE BEAMS CAST ON MASONRY WALLS SHALL BE CONSTRUCTED AS TO BE AND BE SUPPORTED INTO JOINTS. THE USE OF BRACING FORMER OR SHEET PILING TO CLUSE JOINTS BELOW BEAMS IS NOT ALLOWED DUE TO BUILDING OF MORTAR BOND.
- SEE ENGINEERS DRAWING FOR THE EXTENT AND EXACT LOCATION OF MASONRY WALLS.

WALL CONTROL JOINTS (WCI):

- 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 JOINTS.
- WALL CONTROL JOINTS SHALL NOT BE PLACED OVER OPENINGS OR WITHIN AN OPENING JAMB WIDTH. SEE PLANS AND/OR JAMB REINFORCING SCHEDULE FOR MINIMUM JAMB WIDTHS.
- 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 UNITS SHALL BE SPECIALLY FORMED U-SHAPED UNITS. 2X60MM WEB UNITS 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 FULL CONSTRUCTION CONSIDERATION. 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 TO FLOORS OR ROOF FRAMING LEVELS.
- QUALITY ASSURANCE: ALL REINFORCED MASONRY SHALL BE TESTED IN ACCORDANCE WITH THE REFERENCED ACI 530/ACI 513/ACI 530.2 CODES AND THE PRESENT SPECIFICATIONS.
- TYPICAL SCHEDULED VERTICAL WALL REINFORCING SIZES AND SPACING SHALL 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 (MIN. C.C.):
 - 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 PARTIAL OR FULL 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 SPlice 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 IN PLACE AND ACCURATELY IN PLACE, AND PROTECTED AGAINST DISPLACEMENT BEFORE AND DURING PLACEMENT OF CONCRETE. SUPPORTING ACCESSORY LEGS 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 BRICKS/CAST 1-1/2 INCH HIGH CONCRETE BLOCKS CAST IN ACCORDANCE WITH DETAILS DESCRIBED 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 BIDD):

- SEE NOTES ON PRIMARY CODES AND SPECIFICATIONS.
- MATERIALS:
 - W SHAPES & WT SHAPES: ASTM A992
 - S SHAPES & WT SHAPES: ASTM A992
 - BT SHAPES & MT SHAPES: ASTM A36
 - C SHAPES & MC SHAPES: ASTM A36
 - ANGLE & PLATE: ASTM A36
 - RHS SQUARE: ASTM A500, GRADE B
 - STEEL PIPE: ASTM A513 TYPE C OR GRADE B
 - STAINLESS STEEL BOLTS: ASTM A325
 - MACHINE BOLTS: ASTM A325
 - ANCHOR BOLTS: ASTM F1554, GRADE 55 TYPE (HUNO)
 - WELDED HEADED STUDS: ASTM A193
 - REINFORCED BAR ANCHORS: ASTM A498
 - NON-WELDING ELECTRODES: AWS D1.1, E70 SERIES
- NON-SHRINK, NON-METALLIC GROUT WITH A 28 DAY STRENGTH OF 8000 PSI SHALL BE USED UNDER BASE PLATES AND SHALL CONFORM TO CORPS OF ENGINEERS CRD-062, FACTORY PRODUCTION TEST SPECIFICATIONS FOR TESTING REQUIREMENTS.
- ENGINEERS SHALL BE CONTACTED FOR APPROVAL OF ANY FIELD MODIFICATIONS OF ANCHOR BOLTS, BRACING 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. THE ERECTOR TO BE RESPONSIBLE FOR TESTING REQUIREMENTS.
- PROVIDE ONE SHOP COAT OF PRIMER (TT-850) ON ALL STEEL EXCEPT FOR ITEMS TO BE HOT DIPPED GALVANIZED 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 DETAILER BY THE END REVISION SHOWN ON THE PLAN. IF NO REVISION IS PROVIDED, DESIGN FOR 1/2 THE BEAM MAXIMUM UNIFORM LOAD PER ALSO 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 1/2" FILLET WELD MINIMUM.
- FIELD CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED AS DETAILED. NO FIELD WELDING OF HOT DIPPED GALVANIZED STEEL WILL BE ALLOWED. USE 3/16" FILLET 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 THAT BE GALVANIZED SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123 AFTER SANDBLAST CLEANING PER THE MANUFACTURER'S AND THOSE ELEMENTS NOT HOT DIPPED GALVANIZED WITH GALVANIZED HARDENED REBAR AND GALVANIZED HEAVY HEX HEADS FOR BOLTING OF GALVANIZED ITEMS.
- STEEL COLUMN, BASE PLATES AND ALL STEEL BELOW GRADE SHALL HAVE A MINIMUM 3" CONCRETE COVER PROTECTION.
- WELDING SHALL BE "NON-TOLERANCE" 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 INVOLVED INCLUDING THE NET 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 308 AND 310, STANDARD TOLERANCES FOR CONCRETE. VERIFY THAT WORK IS WITHIN SPECIFIED TOLERANCES UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE ENGINEER TO PROVIDE TOLERANCE RELIEF. 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" CLEAR 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 POURING.

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 ENGINEERS APPROVAL.
- PROVIDE SAWCUT JOINTS IN ALL SIDEWALKS AT A MAXIMUM SPACING OF 3 FEET O.C. AND ISOLATION JOINTS AT A MAXIMUM SPACING OF 20 FEET APART.
- DEPTH OF SAWCUT JOINTS SHALL BE AS FOLLOWS: 4" & 8" SLABS - 1/2" AND 3" SLABS - 2". CUTTING SHALL BE DONE AS SOON AS POSSIBLE AFTER THE CONCRETE HARDENS, NORMALLY WITHIN 8 HOURS. THE CONCRETE IS HAND ENOUGH WHEN THE BLADE DOES NOT DISLODGE AGGREGATE AND WHEN THE EDGES OF THE CUT DO NOT BURN.
- 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 308 (WETTER CONCRETING)
 - ACI 311 (WAX PROPORTIONING)
 - ACI 304 (PLACING)
 - ACI 315 (DETAILING)
 - ACI 347 (FORMWORK)
 - ACI 301 (SPECIFICATIONS)
- ALL CONCRETE SHALL BE NORMAL WEIGHT (84 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)	MIN. MAX. SIZE		SLUMP RANGE (IN)
		NO.	RATIO	
A. FOOTINGS	3000	3/4"	0.45	3-5
B. FOUNDATION WALLS	3000	3/4"	0.45	3-5
C. SLAB-ON-GRADE	3000	3/4"	0.50	3-5
D. ELEVATED WALLS	3000	3/4"	0.45	3-5
- CONCRETE SLUMP IS TAKEN AT POINT OF PLACEMENT INTO STRUCTURE.
- WATER REDUCING AND AIR ENTRAINING AGENTS SHALL BE INCLUDED IN DESIGN MIXES. SUPERPLASTICIZERS MAY BE USED AT THE CONTRACTORS 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 5# W/ 12" X 4" W/ 12" PLACING 1'-10" CLEAR FROM THE TOP OF THE SLAB. SLABS SHALL BE PLACED OVER PREPARED/COMPACTED EARTH.
- CONCRETE BEAMS: UNLESS NOTED OTHERWISE, CONCRETE BEAMS SHALL BE A MINIMUM OF 12" DEEP BY THE SUPPORTING WALL WIDTH, REINFORCED WITH 2# CONTINUOUS TOP AND BOTTOM AND 3# TIE AT 24" O.C.

TERMITE PROTECTION:

- A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL, SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FIC 104.2-6
- CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FIC 1503.4.4
- IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS. FIC 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 FINISH LESS THAN 5/16" THICK APPLIED DIRECTLY TO THE FOUNDATION WALL. FIC 104.2-6
- INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FIC 104.1-1
- SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BORED OR FORMED. FIC 104.1-2
- BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL. ON LAST FORMS, PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FIC 104.1-3
- MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL LEAKAGE. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. FIC 104.1-4
- CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FIC 104.1-5
- SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FIC 104.1-8
- AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING BRACING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED SHALL BE RETREATED. FIC 104.1-8
- ALL BUILDINGS ARE REQUIRED TO HAVE PER CONSTRUCTION TREATMENT. FIC 104.1-7
- 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". FIC 104.1-7
- AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN TOP OF THE BUILDING. THIS INCLUDES ALL GRADE STAIRS, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FIC 2303.1-3
- NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FIC 2303.1-4

MISCELLANEOUS:

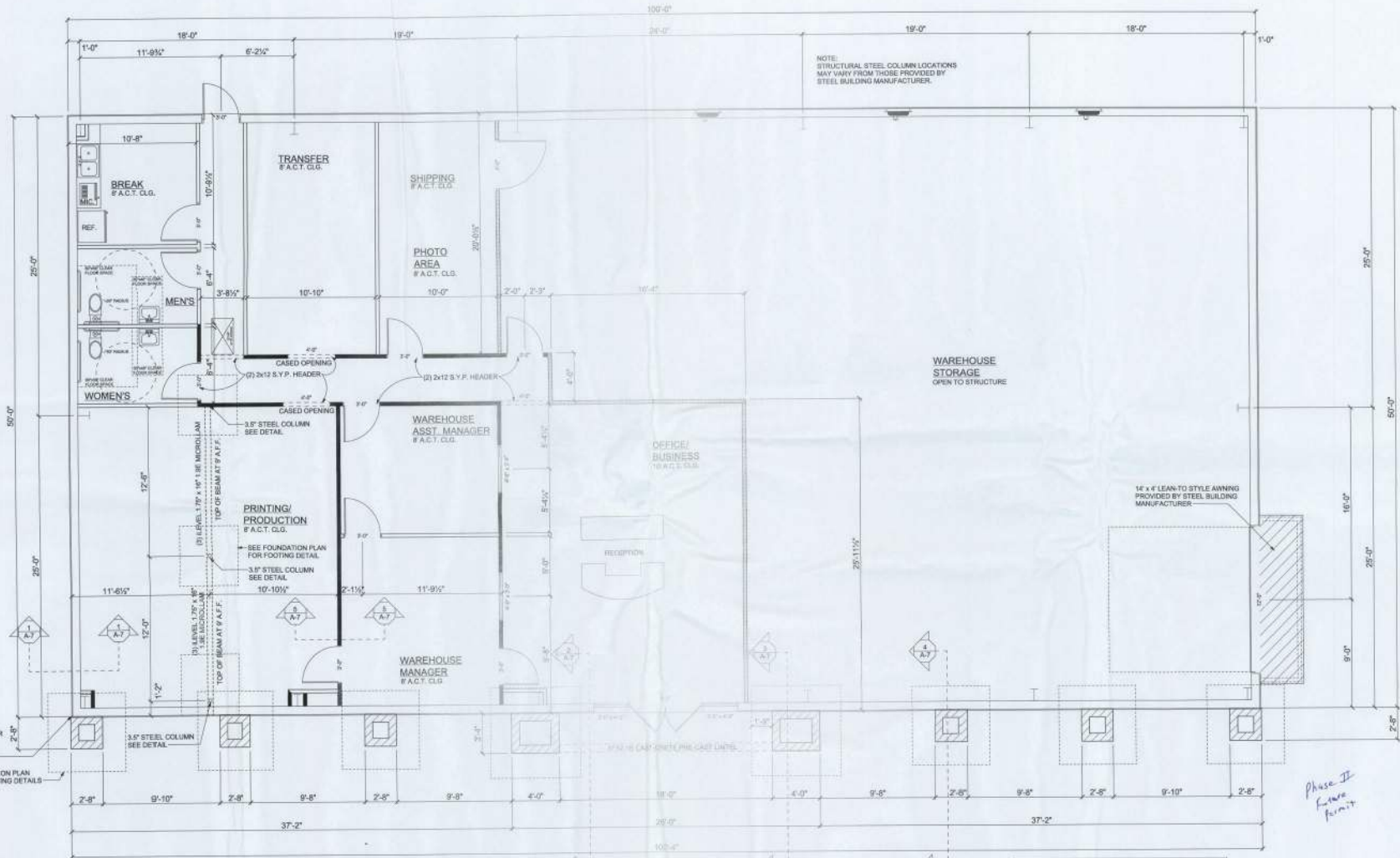
- CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE DRAWINGS, ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- CONTRACTOR TO COORDINATE EXACT SIZE AND LOCATION OF CONCRETE EQUIPMENT PADS, PIPES, PIPE ENCASMENT, PIPE SUPPORTS, CHASES, AND OTHER MISCELLANEOUS ITEMS TO BE PLACED PRIOR TO POURING CONCRETE, WITH MECHANICAL AND ELECTRICAL DRAWINGS AND MANUFACTURERS REVISION SHOP DRAWINGS.
- NO CONDURTS, PIPES, SLEEVES OR ANY OTHER ITEM SHALL BE EMBEDDED IN CONCRETE ALONG, THROUGH OR UNDER ANY HUR, 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)



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	CEC PROJECT NO. 2013-015
APPROVED BY: BC	SHEET: A-1

MONSTA CLOTHING
GENERAL NOTES



SEE SECTION PLAN
FOR FOOTING DETAILS

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

	NEW 2x4 WALL
	INSULATED 2x4 WALL
	INTERIOR BEARING WALL
	8" STEEL BUILDING WALL

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



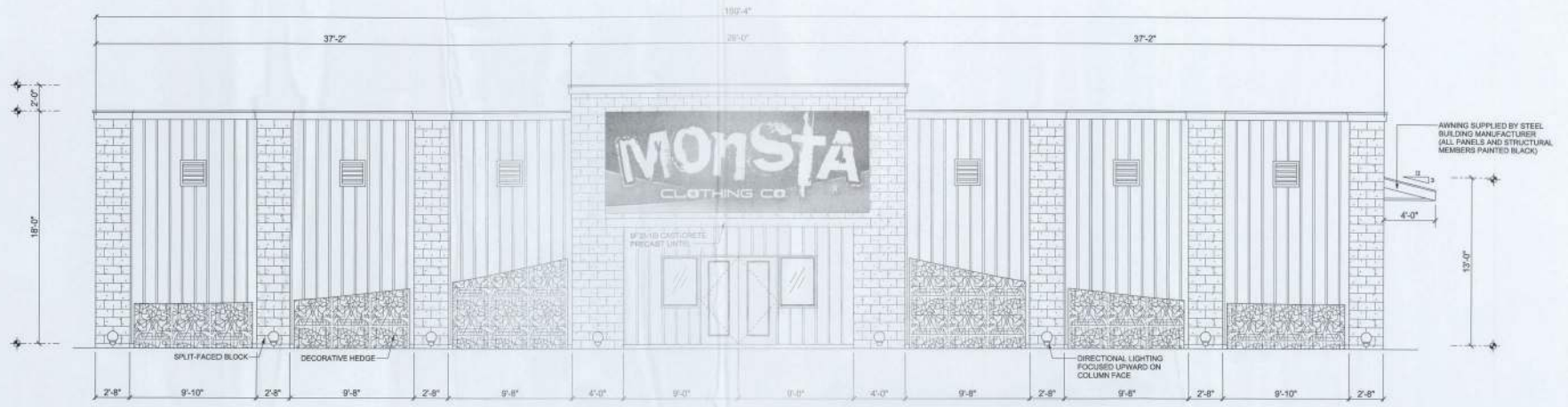
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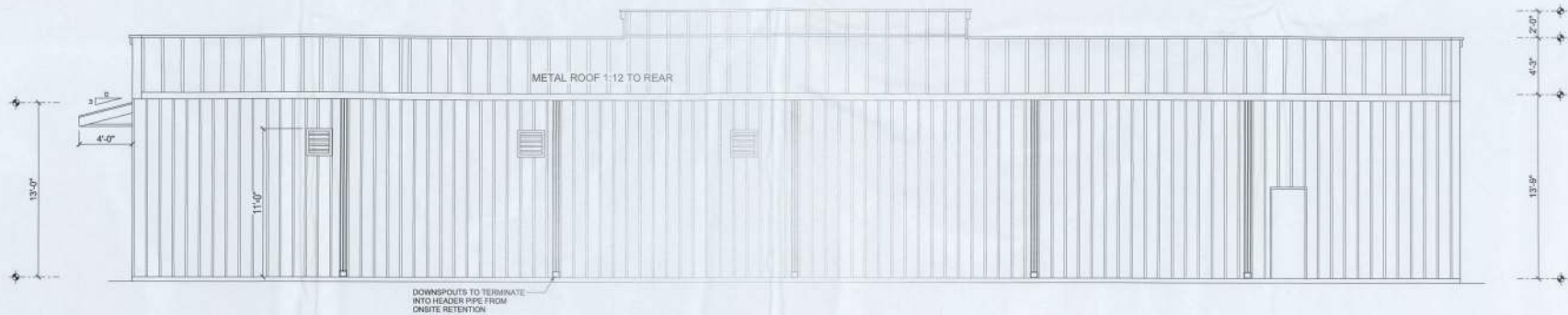
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MONSTA CLOTHING
FLOOR LAYOUT

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



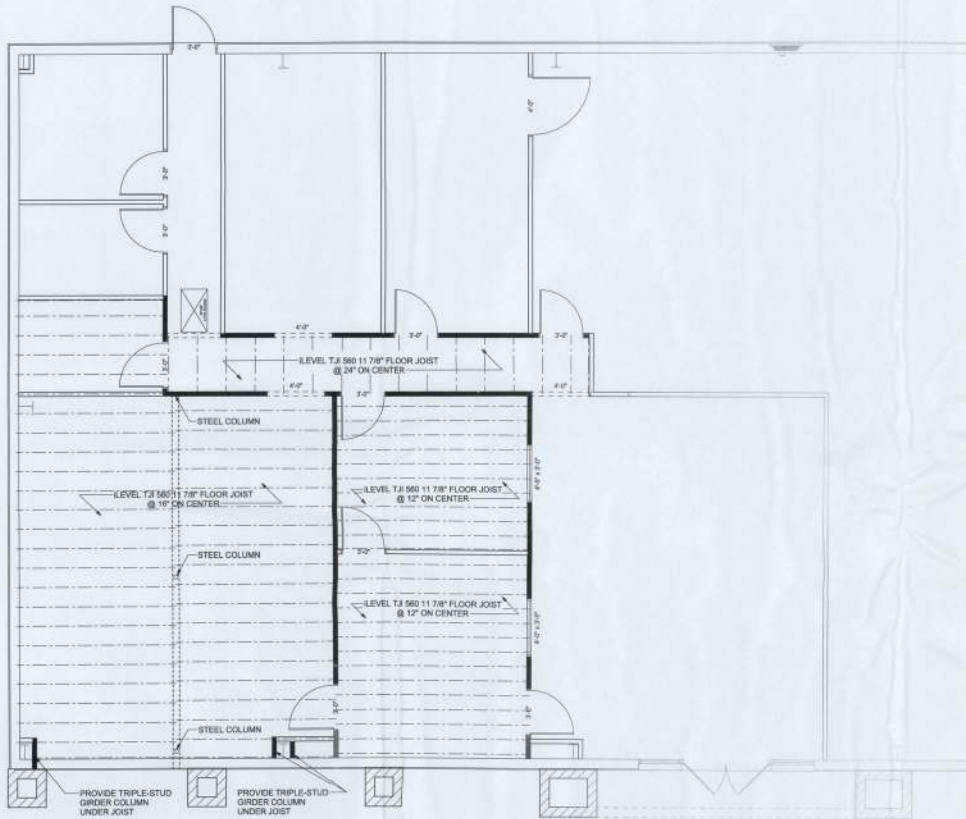
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PHONE: 386.754.4085



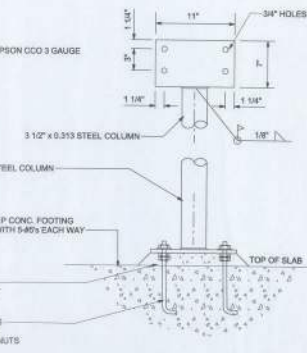
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BC

MONSTA CLOTHING
ELEVATIONS
FRONT AND REAR

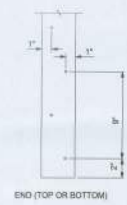
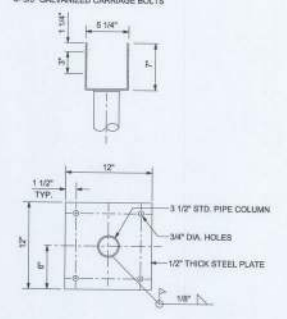
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SHEET:
A-3



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



NOTE:
FASTEN TO GIRDER/BEAM WITH 4-3/8" GALVANIZED CARRIAGE BOLTS



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 - 1" MIN. EMBEDMENT WITH 2" HOOK
EXPANSION ANCHORS BAKERS/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. LND. ALL BOLTED CONNECTIONS SHALL BE 1/2" DIA. A325 BOLTS, LND.
- 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, ABRASSED OR RUDDY 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.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



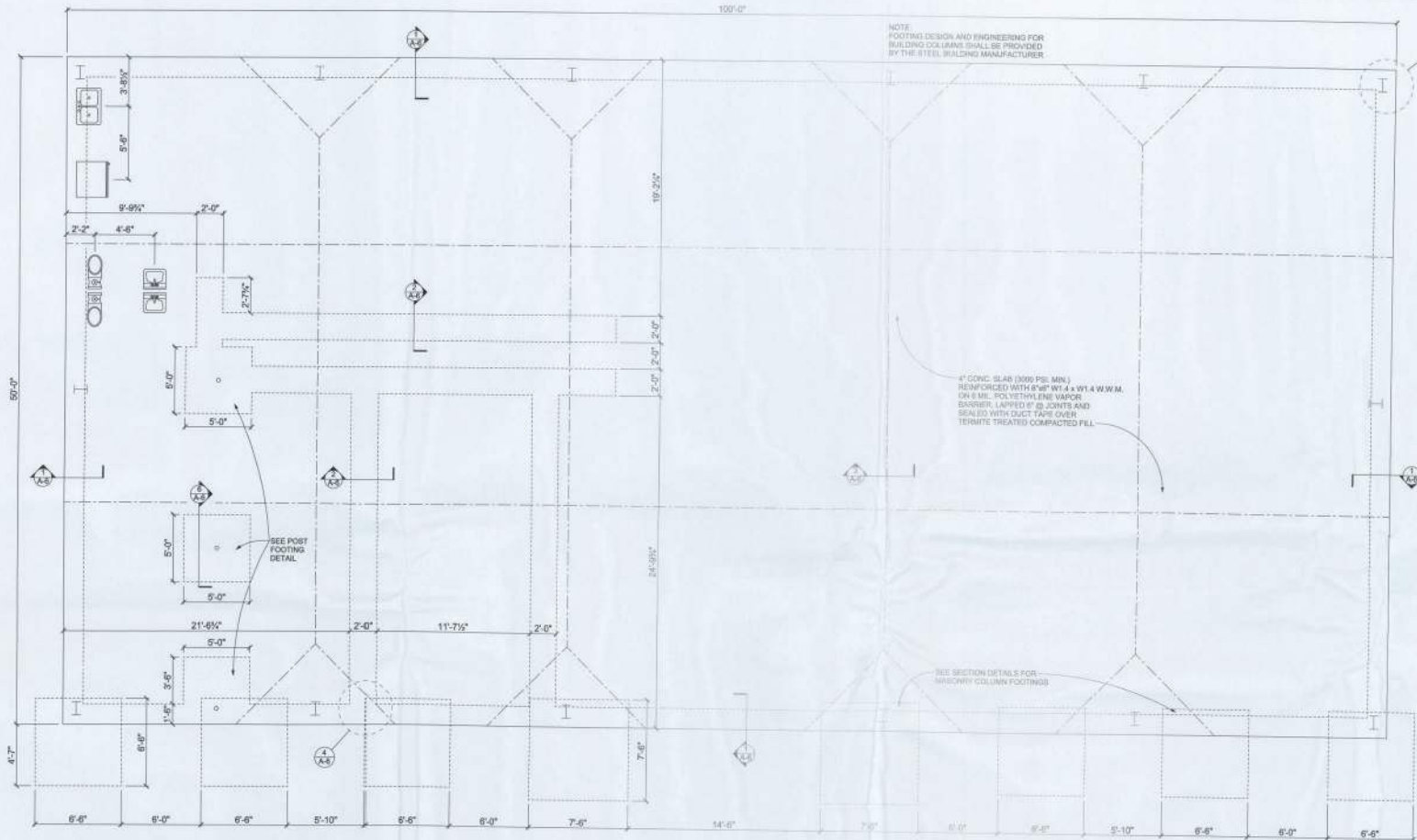
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APPROVED BY: BC

MONSTA CLOTHING
UPPER STORAGE PLAN

CES PROJECT NO.: 2013-015
SHEET: A-5

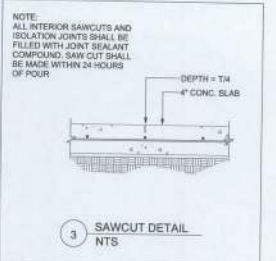
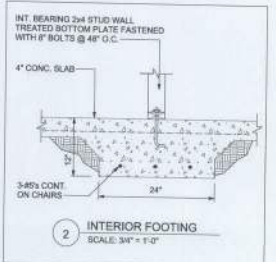
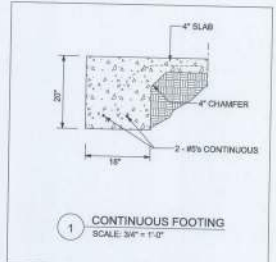


NOTE:
FOOTING DESIGN AND ENGINEERING FOR BUILDING COLUMNS SHALL BE PROVIDED BY THE STEEL BUILDING MANUFACTURER.

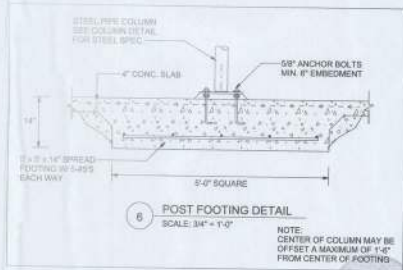
4" CONC. SLAB (3000 PSI MIN.) REINFORCED WITH #5@18" W/ 1" & #11 @ 4" W/W/M. ON 3 MIL. POLYETHYLENE VAPOR BARRIER, LAPPED @ JOINTS AND SEALED WITH DUCT TAPE OVER TERMITHE TREATED COMPACTED FILL.

SEE SECTION DETAILS FOR NARROW COLUMN FOOTINGS

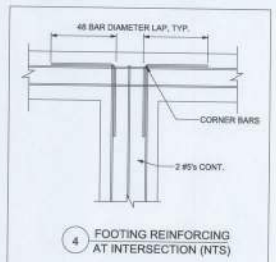
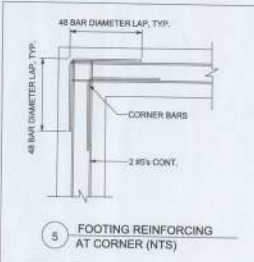
FOUNDATION LAYOUT
SCALE: 1/4" = 1'-0"



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



NOTE:
CENTER OF COLUMN MAY BE OFFSET A MAXIMUM OF 1'-0" FROM CENTER OF FOOTING



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



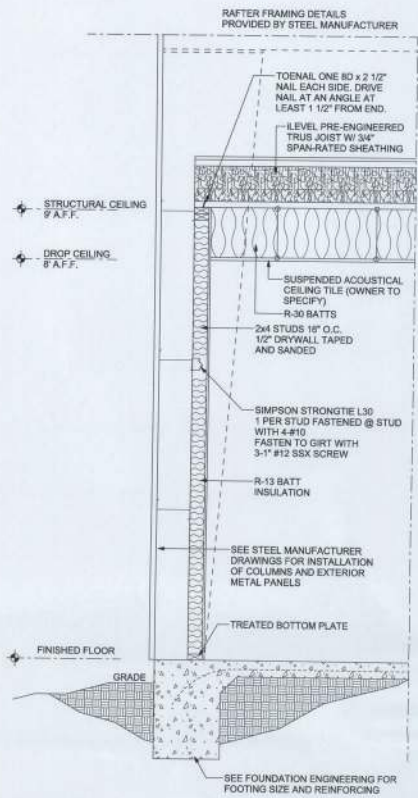
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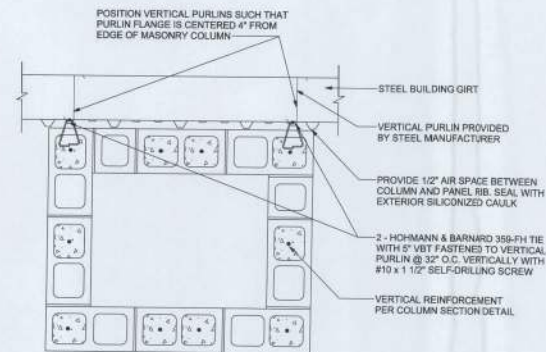
DRAWN BY:
TM
APPROVED BY:
BC

MONSTA CLOTHING
FOUNDATION PLAN

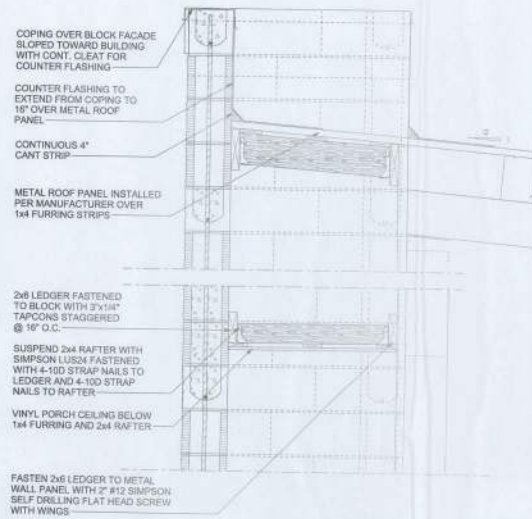
CES PROJECT NO.:
2013-015
SHEET:
A-6



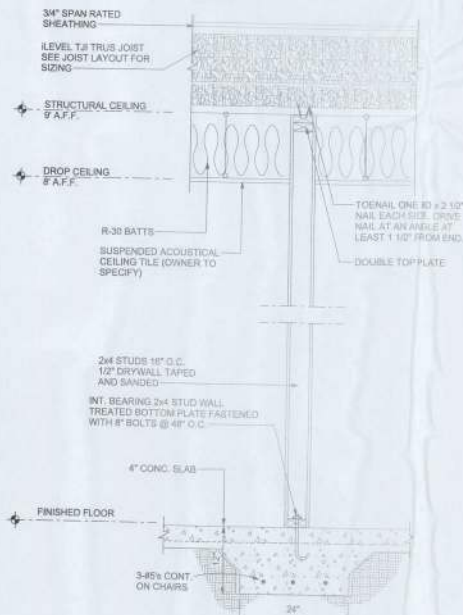
1 EXTERIOR SIDE WALL
SCALE: 3/4" = 1'-0"



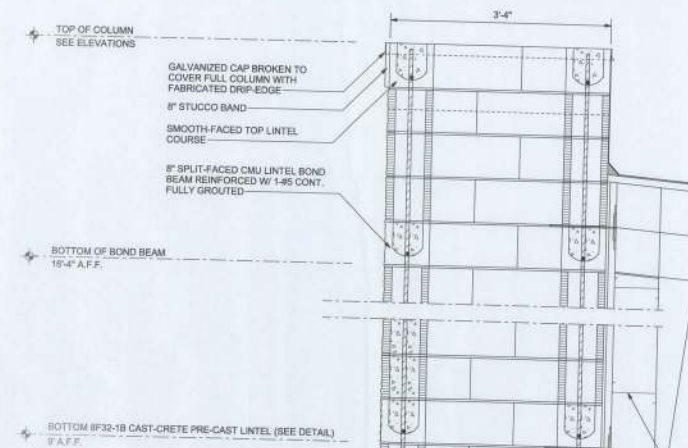
6 MASONRY ANCHORING DETAIL
SCALE: 1" = 1'-0"



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

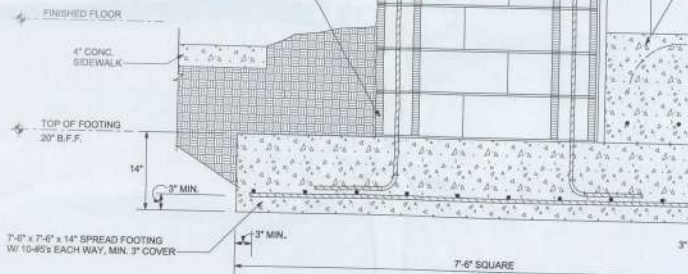


5 INTERIOR BEARING WALL
SCALE: 1" = 1'-0"

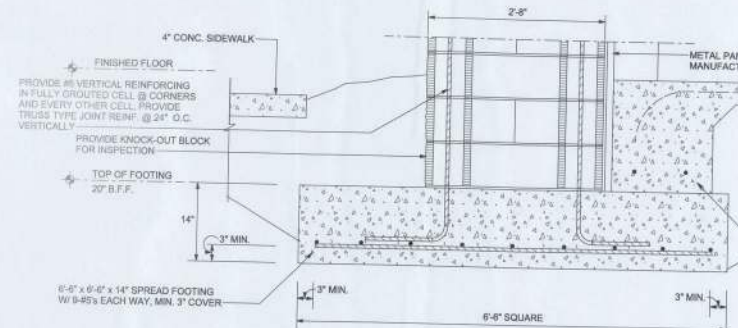


PROVIDE #6 VERTICAL REINFORCING IN FULLY GROUTED CELL @ CORNERS AND EVERY OTHER CELL. PROVIDE TRUSS TYPE JOINT REIN. @ 24" O.C. VERTICALLY

PROVIDE KNOCK-OUT BLOCK FOR INSPECTION



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



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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

CES
Crews Engineering Services, LLC

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 CLOTHIN
SECTIONS AND DETAIL

PLUMBING SPECIFICATIONS

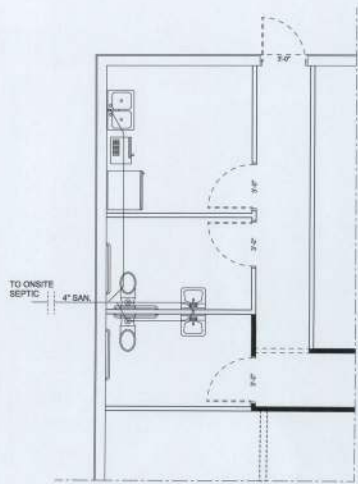
A. It is the intent of these specifications to define the work and materials typically installed by a Plumbing Contractor. However, it is not intended to define a subcontract between the Plumbing Contractor and General. The General Contractor is responsible for the work specified and any questions regarding scope of work shall be directed to the General Contractor.
 B. Work shall include all labor, materials, fixtures, equipment, tools and service necessary for installation, testing and adjusting of all mechanical systems shall be furnished and installed in accordance with the Drawings, Specifications, and any Addenda thereto.
 C. Drawings and Specifications shall be understood to cover, according to their intent and meaning, complete mechanical systems including but not limited to, but not restricted to, work specified and not shown shall be performed as though mentioned in both.
 D. All work shall be performed or installed in strict accordance with Standard Plumbing Code and applicable rules, regulations and codes of local state and Federal Governments having jurisdiction, and each contractor and subcontractor shall be responsible for such compliance.
 E. Work for permits, inspections, permit use, royalties, shall be paid by the contractor. secure approval of the installation.
 1. Furnish all equipment and personnel and conduct all tests required to secure approval of the installation.
 2. Any repairs or changes required to secure the approval of the installation shall be done at the additional expense to the Owner.
 H. All work shall be installed in accordance with the appropriate codes and satisfy the local inspector having jurisdiction.
 I. Furnish all equipment and personnel and conduct all tests required to secure approval of the installation.
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 2. Any repairs or changes required to secure the approval of the installation shall be done at the additional expense to the Owner.
 L. Upon completion of each part of the mechanical system, the contractor shall demonstrate to the Engineer that each item on the system is installed with proper covers, valves, controls, etc., and that all are in proper working order.
 M. A set of "red-lined" drawings shall be carefully maintained at all times. Actual conditions as they exist on the drawings to be red-lined on the drawings will continuously show locations and routing of piping, ducts, grilles, equipment, valves, and any equipment specified on the drawings.
 N. Equipment and materials shall be new and meet or exceed specified requirements.
 O. All product shall be current model for its replacement specified for the installation.
 P. Acceptable manufacturers are listed; additional manufacturers may request approval of their products up to 10 days prior to installation.
 Q. Information prior to accepting or requesting an alternate.
 R. Submittals shall be performed in compliance with CSI AIA regulations.
 S. Shop drawings and product data shall be submitted on all equipment, fixtures, etc., and shall include all required information as required by the manufacturer and all submittals must be made at same time.
 T. All submittals shall be reviewed by the General Contractors review stamp prior to submittal.
 U. The Engineer will review one submittal and one submittal; subsequent submittals may require a permit fee paid by subcontractor.
 V. Shop drawings shall be labeled in the same designation as the Drawings.
 W. All conditions shall be inspected to determine prior to adding 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.
 P. Failure to determine existing conditions or nature of construction will not be considered as basis for granting additional compensation.
 Q. Installation.
 1. Contract Drawings show the arrangements and sizes of principal apparatus and devices to be provided under this Contract and connection thereto. These shall be followed 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 taken 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 of equipment furnished by the Engineer.
 5. Consult the Drawings for all dimensions, locations of partitions, sizes of structural member, hangers, etc.
 6. Do not make field layouts until shop or equipment drawings are approved and job conditions verified.
 H. Protection and Backfill:
 1. Plumbing Contractor shall coordinate with General Contractor to determine the extent of his work requiring excavation and backfill.
 5. Rough-in:
 a. Rough-in for all equipment, fixtures, etc., in building whether or not such equipment is furnished by this Contractor or by Owner.
 b. Inform in advance the location and size of all openings and chases necessary for proper installation of all work and have openings and chases protected 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 steel walls shall be cut, not broken or chiseled.
 5. Screens shall be required at all ports within piping passing through concrete walls, slabs or masonry walls; screens 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.:
 a. Install a ready filed installation.
 b. Determine the nature and extent of the work of others.
 c. Eliminate interference.
 2. Maintain maximum headroom and clearances.
 3. Any interference which develops or is foreseen and cannot be resolved by the affected trades, etc. shall be handled as follows:
 a. Coordinate installation of that portion of the work which is in conflict as no additional compensation will be allowed for any relocation, etc., if Contractor work 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.
 4. No additional compensation will be allowed for removal, relocation, repairs or changes required by interference.
 J. Clear away all debris, surplus materials, etc., resulting from work on operations, leaving job area or installation in clean first-class condition.
 K. Where factors herein are provided on equipment, all plated, diked surfaces shall be touched-up and re-finished as approved.
 W. All plumbing fixtures shall be thoroughly cleaned of all plaster, stickers, nail stains, and other foreign matter, and be left ready for use.
 X. Surfaces of all floor drains, cleanouts and other equipment shall be cleaned and left in first-class condition.

CHLORINATION OF DOMESTIC WATER LINES
 A. Disinfection of all water piping which carry potable water or any other piping connected thereto, which is not secured by a backflow preventer.
 B. Disinfection shall be chlorine, either in the form of hypochlorite solution or in the form of compressed gas supplied 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 odor.
 D. Begin disinfection only after flushing system.
 E. The system shall be flushed with a solution containing 50 parts per million available chlorine and allowed to stand for twenty-four hours, or as required by local authorities.
 F. Chlorinator is greater.
 F. During Chlorination all valves and equipment shall be operated to insure that chlorine reaches all parts of the system.
 G. Following disinfection all treated water shall be flushed from the system through its outlets until the quality of water delivered 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 samples taken only over a period of three days show that water quality is not being maintained.
 I. Samples shall be taken from both treated 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 retains the authority to require the discontinuance of piping as the shall deem necessary to determine the cause of contamination.
 L. Any assembly, cleaning or repair shall be in strict accordance with the manufacturer's instructions.
 2. Disinfection, flushing and testing shall be repeated upon reassembly of this piping.

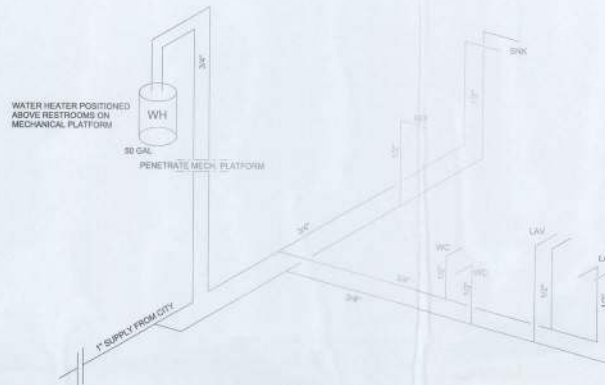
Pipe and Fittings

A. Refer to "PIPING SCHEDULE" on drawings for pipe, fittings and associated materials and methods of installation and quality test areas.
 B. All material shall be acceptable.
 C. Material for underground piping:
 1. Examine areas to receive underground 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. Excavator:
 a. Excavate trenches of sufficient width for proper installation and slope.
 b. Sheet and brace trenches as necessary to protect workmen and adjacent structures.
 c. Comply with current OSHA standards.
 2. Final grading of trench:
 a. Perform final grading of trench bottoms by hand tools; carry machine excavation only to such depth that soil bearing for pipes will not be affected.
 b. Grade bottom of trenches evenly to insure uniform bearing for all piping.
 c. Cut lines as necessary for joint making.
 d. Keep trenches free from water while installation is in progress.
 e. Use shoring's level to establish elevations and grades.
 f. Machine excavation shall be held at sufficient clearance from foundations and adjacent structures.
 g. Provide and maintain handrails and temporary tripods around excavations as required for safety.
 h. Water lines may be banded above sanitary lines in same trench if they are 18 inches or more above the sanitary line.
 i. Minimum bury depth for water piping shall be 24 inches.
 j. Grade horizontal drainage 1/4 inch per foot minimum.
 k. Install same type materials specified for the inside building to 8 feet outside building.
 L. Backfill:
 a. Backfill for sewer lines shall be placed in accordance with manufacturer's printed instructions.
 b. Backfill trenches only after piping has been inspected.
 c. The backfill below sand or selected areas shall be brought to within 6 inches of finished grade, the remaining six inches shall be backfilled with clean topsoil.
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 f. The backfill below sand or selected areas shall be brought to within 6 inches of finished grade, the remaining six inches shall be backfilled with clean topsoil.
 g. On sloped systems, equip low points with 3/4 inch drain valves and hose connections.
 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. Trench piping:
 1. Run vertical support piping true and level.
 2. Run vertical support piping true and level.
 3. Run exposed piping for close to elbows and bands as possible.
 4. Group piping wherever practical at common elevations.
 5. Install concealed pipes close to building's structure to keep fittings to a minimum.
 2. Slope water piping 1 inch to 40 feet and arrange to drain all low points.
 3. On sloped systems, equip low points with 3/4 inch drain valves and hose connections.

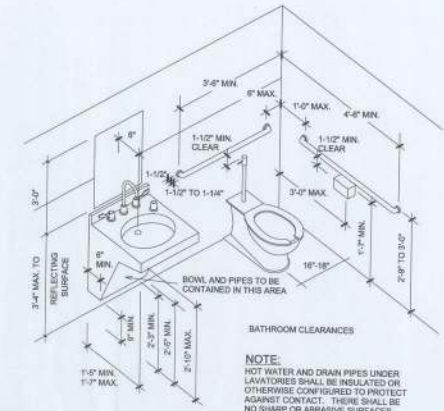
COPPER PIPE
 A. Domestic Water Supply Above Grade or Slab
 1. Type L, Hard Copper
 2. Joints:
 a. Solder using lead-free solder and non-corrosive flux.
 b. Flanges:
 1. Solder using Silver solder or "58-Fox".
 2. Joints:
 a. Use hard brass copper tubing.
 b. Flanges:
 1. Solder using Silver solder or "58-Fox".
 2. Joints:
 a. Plastic pipe and fittings:
 1. Vitrified Clay Pipe (Above Grade)
 2. PVC
 3. Polyvinyl Chloride (PVC) - ASTM D-1784-607
 4. Schedule 40
 5. Type I, Grade 1
 a. Pipe shall bear NSF seal and ASTM designation
 b. Joints:
 1. Bonded joints using adhesive per manufacturer's recommendations
 2. PVC - ASTM D-2965-69
 3. ABS - ASTM D-2681-68
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 1. Bonded joints using adhesive per manufacturer's recommendations
 2. PVC - ASTM D-2965-69
 3. ABS - ASTM D-2681-68
 4. Schedule 40
 5. Type I, Grade 1
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 4. Schedule 40
 5. Type I



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

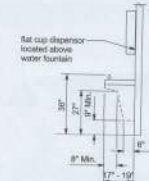


SUPPLY RISER
NTS



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.



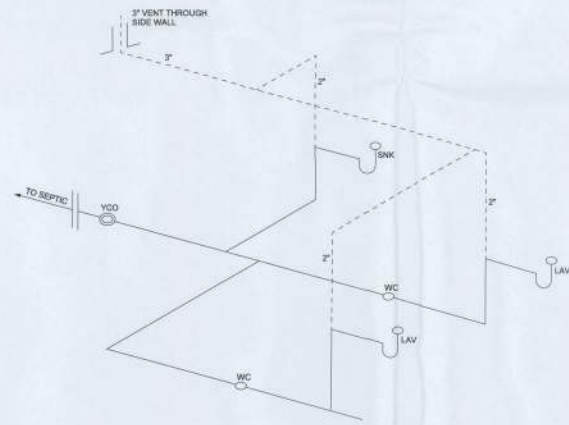
ELEVATIONS

WATER CLOSETS CLEARANCES

WATER COOLER OR BUBBLER CLEARANCES

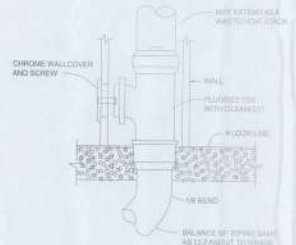
NOTE:
FLORIDA LAW, SECTION 503.50(4)(5), F.S. STIPULATES THAT "...REQUIRED BATHING ROOMS AND TOILET ROOMS IN NEW CONSTRUCTION SHALL BE DESIGNED AND CONSTRUCTED ...WITH AN ACCESSIBLE LAVATORY IN THE WHEELCHAIR ACCESSIBLE COMPARTMENT AND THE WATER CLOSET LOCATED IN A CORNER DIAGONAL TO THE DOOR. THE ADA 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

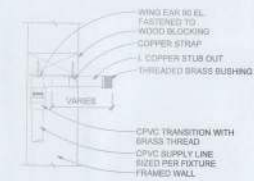


DWV RISER
NTS

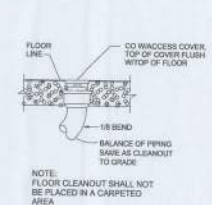
NOTE:
PROVIDE PLUMBING CLEAN-OUTS AT THE BASE OF ALL STACKS, A MAXIMUM OF 75' O.C. ALONG ALL MAIN DRAIN RUNS AND THE UP-STREAM ENDS OF MAIN DRAIN RUNS, WHERE THE MAIN BUILDING DRAIN EXITS THE BUILDING AND AT 75' INTERVALS TO THE DISPOSAL SITE.



WALL CLEANOUT DETAILS
NTS

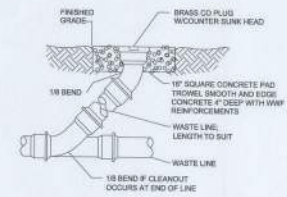


WALL STUBOUT DETAIL
NTS



FLOOR CLEANOUT
NTS

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



YARD CLEANOUT
NTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



CERTIFICATE OF AUTHORIZATION
NO. 29022
P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4095



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

3.1 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'S 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 BUILDING'S 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. DECREASE 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 CUTTERS, 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.

3. 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 HOMERUNS 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 16 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 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 TB 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, 800 VOLT INSULATION, THW/THWN AND XHHW.

B. FEEDERS AND BRANCH CIRCUITS 6 AWG AND SMALLER: COPPER STRANDED CONDUCTOR, 600 VOLT INSULATION, THW/THWN, XHHW 6 AND 8 AWG, STRANDED CONDUCTOR; SMALLER THAN 8 AWG, SOLID CONDUCTOR.

C. CONTROL CIRCUITS: COPPER, STRANDED CONDUCTOR, 600 VOLT INSULATION, THW.

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 AND DIMENSIONS:

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 9FT 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 CHANNELS, 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, TAPS, 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 CEILING 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 BRIDGES FOR FLUSH OUTLETS IN HOLLOW STUD WALL, AND ADJUSTABLE STEEL CHANNEL FASTENERS FOR FLUSH CEILING OUTLET BOXES.

12. LOCATE BOXES IN MASONRY WALLS 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 CEILINGS TO 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 CEILINGS, 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 62 AND NED 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 THAT SHALL BE BURIED 12" BELOW GRADE.

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

C. 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. PROVIDE 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. PROVIDE TYPED CIRCUIT CARDS AT THE COMPLETION OF THE PROJECT.

INTERIOR LUMINAIRES

PART 1 GENERAL

1.1 REGULATORY REQUIREMENTS

