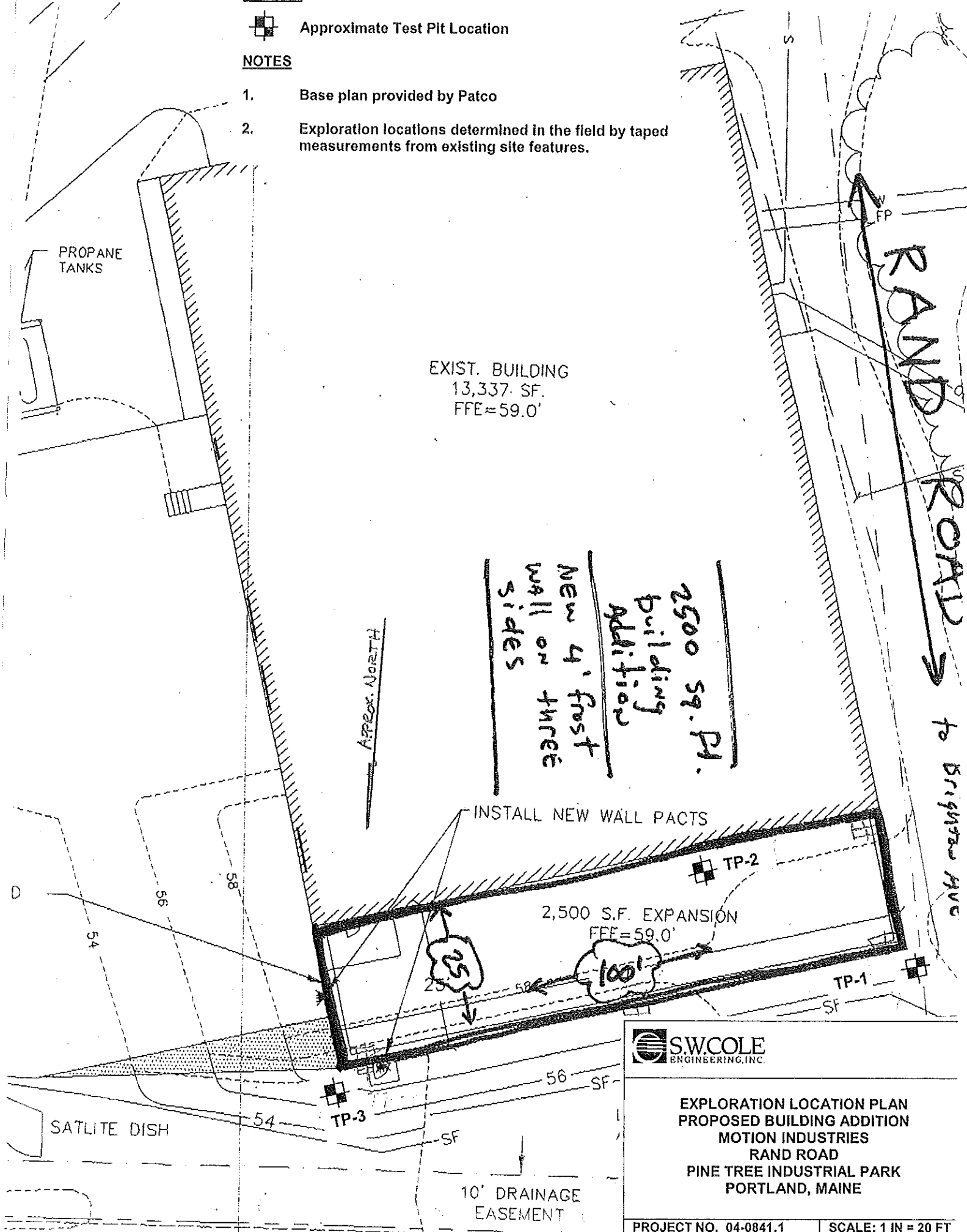


LEGEND

 Approximate Test Pit Location

NOTES

1. Base plan provided by Patco
2. Exploration locations determined in the field by taped measurements from existing site features.



 **S.W. COLE**
ENGINEERING, INC.

**EXPLORATION LOCATION PLAN
PROPOSED BUILDING ADDITION
MOTION INDUSTRIES
RAND ROAD
PINE TREE INDUSTRIAL PARK
PORTLAND, MAINE**

PROJECT NO. 04-0841.1
DATE: SEPTEMBER 22,
2004

SCALE: 1 IN = 20 FT
SHEET: 1

PROJECT/CLIENT: PROPOSED MOTION INDUSTRIES ADDITION / PATCO CONSTRUCTION
 LOCATION: PORTLAND, MAINE

 PROJECT NO. 04-0841.1

TEST PIT <u>TP-1</u>			
DATE: <u>9/10/2004</u>		SURFACE ELEVATION: <u>58' +/-</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH	STRATUM DESCRIPTION	TEST RESULTS
	0.5'	BROWN SANDY TOPSOIL WITH GRASS (FILL)	W=34.1%
		BROWN SILTY SAND	
		WITH CLAYEY SILT SEAMS	
	4.0'	~ STIFF ~ BROWN SILTY CLAY WITH SILTY SAND SEAMS	
S-1	5 - 6'	$q_p = 2 - 3 \text{ ksf}$	
	6.5'	$q_p = 2 \text{ ksf}$	
		BOTTOM OF EXPLORATION AT 6.5'	
COMPLETION DEPTH: <u>6.5'</u>		DEPTH TO WATER: <u>NO FREE WATER OBSERVED</u>	

TEST PIT <u>TP-2</u>			
DATE: <u>9/10/2004</u>		SURFACE ELEVATION: <u>58.5' +/-</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH	STRATUM DESCRIPTION	TEST RESULTS
	0.5'	BROWN SANDY TOPSOIL WITH GRASS (FILL)	EXISTING FOOTING GRADE
		BROWN FINE TO MEDIUM SAND TRACE GRAVEL TRACE SILT (FILL)	
	4.6'		
	5.0'	4-INCH WRAPPED UNDERDRAIN SURROUNDED WITH 3/4-INCH STONE	
S-1	5 - 6'	BROWN SILTY CLAY ~ HARD ~ $q_p = 8 \text{ ksf}$	W=19.4%
	6.0'	BOTTOM OF EXPLORATION AT 6.0'	
NOTE: EXISTING CONCRETE FOOTING WAS NOT EXPOSED - IT IS UNKNOWN IF CONCRETE WAS PLACED ON CLAY OR ON FILL MAT			
COMPLETION DEPTH: <u>6.0'</u>		DEPTH TO WATER: <u>NO FREE WATER OBSERVED</u>	



S.W. COLE ENGINEERING, INC.

TEST PIT LOGS

PROJECT/CLIENT: PROPOSED MOTION INDUSTRIES ADDITION / PATCO CONSTRUCTION

LOCATION: PORTLAND, MAINE

PROJECT NO. 04-0841.1

TEST PIT <u>TP-3</u>			
DATE: <u>9/10/2004</u>		SURFACE ELEVATION: <u>57.5' +/-</u>	LOCATION: <u>SEE SHEET 1</u>
SAMPLE NO.	DEPTH	STRATUM DESCRIPTION	TEST RESULTS
	0.8'	BROWN SANDY TOPSOIL WITH GRASS (FILL)	W=22.4%
	4.2'	BROWN TO GRAY SILT AND SAND AND CLAY SOME ORGANICS SOME CONSTRUCTION DEBRIS (FILL)	
S-1	5 - 6'	BROWN SILTY CLAY DESICCATED ~ HARD ~ $q_p = 9 \text{ ksf}$	
	7.5'	$q_g = 9 \text{ ksf}$	
		BOTTOM OF EXPLORATION AT 7.5'	
COMPLETION DEPTH: <u>7.5'</u>		DEPTH TO WATER: <u>NO FREE WATER OBSERVED</u>	

- 1" HOT BITUMINOUS PAVING (GRADE "C")
- 1-1/2" HOT BITUMINOUS PAVING (GRADE "B")
- 2" AGGREGATE BASE COURSE—CRUSHED (M.D.O.T. spec. 703.06 (a) TYPE "A")
- 12" AGGREGATE SUB-BASE COURSE—GRAVEL (M.D.O.T. spec. 703.06 (b) TYPE "D")



BRING TO SUBGRADE AS REQUIRED W/ COMMON BORROW COMPACTED TO 90% OF MAXIMUM DENSITY.

TYPICAL PAVED PARKING LOT SECTION

NOT TO SCALE

NOTE:

1. COMPACT GRAVEL SUB-BASE, BASE COURSE TO 92% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
2. CONTRACTOR SHALL SET GRADE STAKES MARKING SUB-BASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.

N/F PORTLAND WATER DISTRICT 12/27 (PLAN 13)

N/F CENTRAL MAINE POWER CO. 2378/109

EXIST. BUILDING 13,337 SF. FFE=59.0'

INSTALL NEW WALL FACTS

2,500 SF. EXPANSION FFE=59.0'

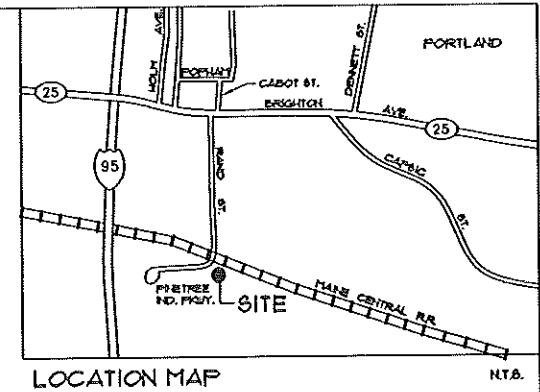
LOAM AND SEED ALL DISTURBED AREAS

10' DRAINAGE EASEMENT

RIPRAP #31 SLOPE (BY OTHERS)

54" CSP (INSTALLED BY OTHERS)

N/F PORTLAND TERMINAL COMPANY



LOCATION MAP

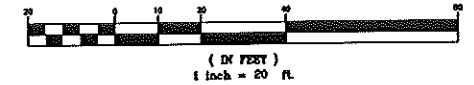
GENERAL NOTES

1. EXISTING CONDITIONS ARE BASED UPON PLAN ENTITLED 'SITE PLAN: BUILDING ADDITION' OF STULTZ FLUID POWER BY SEBAGO TECHNICS, REVISED OCTOBER 27, 1999.
2. THE PROJECT SITE IS SHOWN ON THE CITY OF PORTLAND ASSESSOR'S MAP NUMBER 285, BLOCK A, LOT 8.001.
3. PROJECT SITE IS LOCATED WITHIN THE I-M ZONE.

LEGEND

EXISTING	DESCRIPTION	PROPOSED
---	PROPERTY ROW	---
---	SETBACK	---
---	EASEMENT	---
	BUILDING	
	EDGE PAVEMENT	
---	GRAVEL ROAD	---
---	CURBLINE	---
~~~~~	TREELINE	~~~~~
124	CONTOUR	124
8"W	WATER	8"W
8"S	SEWER	8"S
12"SD	STORM DRAIN	12"SD
4"FM	FORCE MAIN	4"FM
4"UD	UNDERDRAIN	4"UD
OE	OVERHEAD ELEC. & TEL.	OE+T
⊙	UTILITY POLE	+
⊙	MANHOLE	⊙
---	CULVERT	12"SD
30.20	SPOT GRADE	30x20
---	BARB WIRE FENCE	---
---	STOCKADE FENCE	---
---	GUARDRAIL	---
---	RAILROAD	---
---	SILT FENCE	---

**GRAPHIC SCALE**



D	SMF	8-31-04	ADD BUILDING EXPANSION & SUBMIT TO THE CITY
C	SMF	10-27-99	REVISE DRAINAGE EASEMENT TO 10 FEET.
B	SMF	10-25-99	ADD SILT FENCE, REVISE LIGHT FIXTURE
A	SMF	10-14-99	ADD WALL LIGHT, DRAINAGE EASEMENT & GRANITE CURBING

REV: BY: DATE: STATUS: THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

**SITE PLAN: BUILDING EXPANSION**  
OF:  
**STULTZ FLUID POWER**  
190 RAND ROAD  
PORTLAND, MAINE  
FOR:  
**PATCO CONSTRUCTION**  
1293 MAIN STREET  
SANFORD, MAINE 04073

DESIGNED BY: SMF  
DRAWN BY: TFH  
CHECKED BY: WTC  
DATE: 8/19/99  
SCALE: 1"=20'  
FIELD BK: --  
PROJ. NO: 99444  
DRAWING: 99444S2

DESIGN BY: SMF  
DRAWN BY: TFH  
CHECKED BY: WTC  
DATE: 8/19/99  
SCALE: 1"=20'  
FIELD BK: --  
PROJ. NO: 99444  
DRAWING: 99444S2  
SHEET 1 OF 1

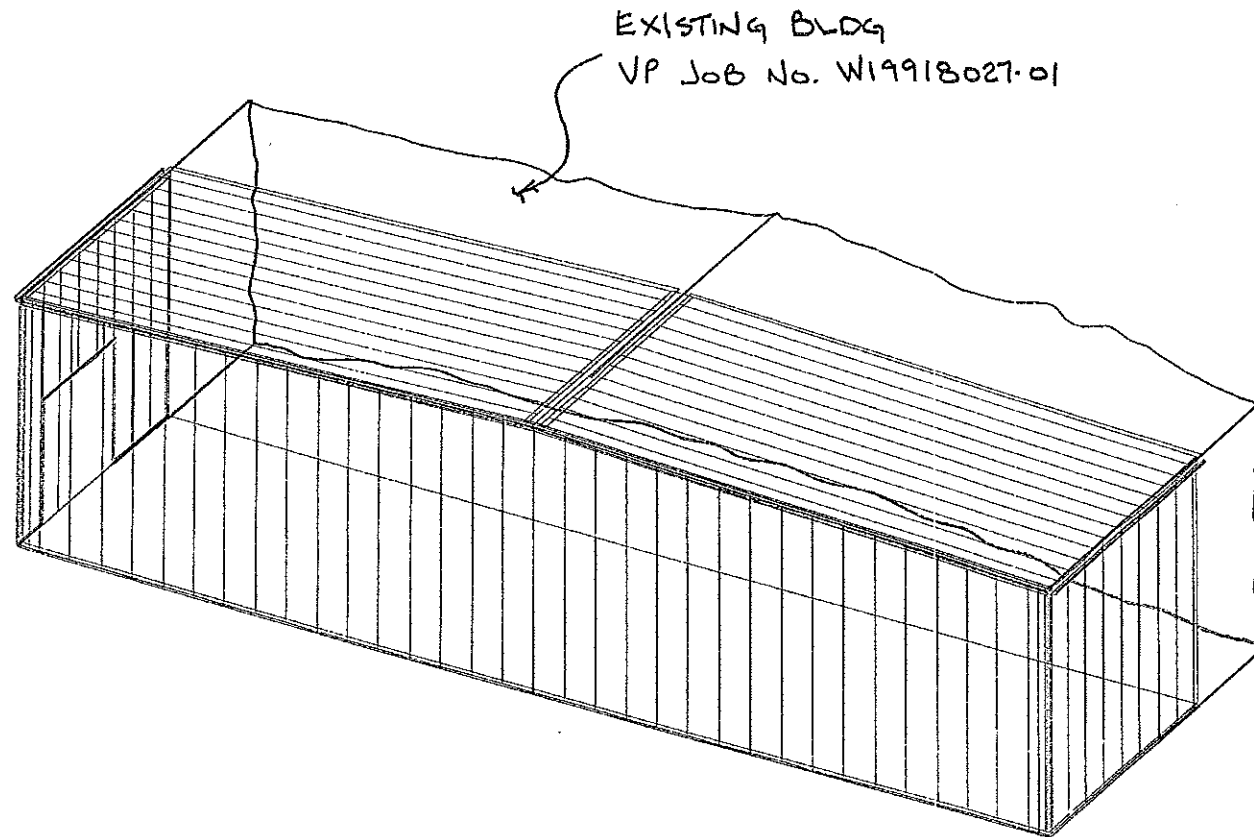








DRAWING INDEX		DRAWING RELEASE HISTORY		
DRAWING TITLE	PAGES	TYPE	DATE	DESCRIPTION
Cover Sheet	1	AB PLAN	7/21/04	FOR CONST
Notes	2	ERECTION DRWGS	7/22/04	FOR PERMIT
Anchor Bolt Plan	3	ERECTION DRWGS	9/2/04	FOR CONST
Primary Structural	4-6			
Secondary Structural	7-10			
Covering	11-14			
Special Drawings	15			
Standard Erection Details	16-18			



VP Buildings, Inc. 3200 Players Club Circle Memphis TN 38125

### GENERAL NOTES

#### MATERIALS

3 PLATE WELDED SECTIONS  
COLD FORMED LIGHT GAGE SHAPES  
BRACE RODS  
HOT ROLLED MILL SHAPES  
HOLLOW STRUCTURAL SECTION (HSS)  
CLADDING

#### ASTM DESIGNATION

A529, A572, A1011 SS  
A1011 SS  
A572  
A36, A572, A529, A992  
A500  
A653, A792

GRADE 50  
GRADE 55  
GRADE 65  
GRADE 36 KSI OR GRADE 50  
GRADE B  
GRADE 50 CLASS 2 OR GRADE 60

#### A325 BOLT TIGHTENING REQUIREMENTS

IT IS THE RESPONSIBILITY OF THE ERECTOR TO INSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPROPRIATE REGULATIONS. THE FOLLOWING CRITERIA IS IN COMPLIANCE WITH THE LATEST SPECIFICATIONS, HOWEVER THE ERECTOR IS RESPONSIBLE TO VERIFY LOCAL AUTHORITY REQUIREMENTS.  
ALL CONNECTIONS MADE WITH A325 BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION AS PERMITTED BY THE SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS (2000 ED.), UNLESS INDICATED AS "PRE-TENSIONED" ELSEWHERE IN THESE DRAWINGS, OR AS INDICATED BELOW.

PRE-TENSION BOLTS ON PRIMARY FRAMING, BOLTED BRACING, AND STRUT CONNECTIONS IF LOCATED IN SEISMIC PERFORMANCE / DESIGN CATEGORY D, E OR F (ZONE 3 OR 4). SEE CODES AND LOADS NOTES BELOW FOR SEISMIC DESIGN CATEGORY.

PRE-TENSION BOLTS ON PRIMARY FRAMING, BOLTED BRACING, STRUTS AND CRANE RUNWAY CONNECTIONS IF BUILDING SUPPORTS A CRANE WITH A CAPACITY GREATER THAN 5 TONS.

CONNECTIONS THAT SUPPORT RUNNING MACHINERY AND OTHER SOURCES OF IMPACT OR STRESS REVERSAL MUST BE PRE-TENSIONED.

ALL SLIP CRITICAL CONNECTIONS AS INDICATED IN THESE DRAWINGS WITH -SC DESIGNATION MUST BE PRE-TENSIONED. SC TYPE CONNECTIONS MUST BE FREE OF PAINT, OIL OR OTHER MATERIALS THAT REDUCE THE FRICTION AT CONTACT SURFACES.

ALL A490 BOLTS MUST BE PRE-TENSIONED WITH WASHERS UNDER TURNED ELEMENT.

SECONDARY MEMBERS AND FLANGE BRACE CONNECTIONS ARE ALWAYS "SNUG TIGHTENED", EVEN IF ABOVE CONDITIONS EXIST, UNLESS SPECIFICALLY NOTED OTHERWISE ON DETAILS.  
WASHERS ARE NOT REQUIRED FOR "SNUG-TIGHT" CONNECTIONS. PRE-TENSIONED CONNECTIONS TIGHTENED USING THE TURN-OF-THE-NUT METHOD DO NOT REQUIRE WASHERS.

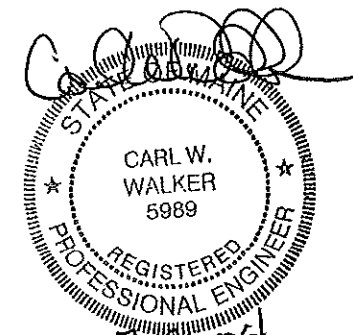
#### CODES AND LOADS

WHEN MULTIPLE BUILDINGS ARE INVOLVED, SPECIFIC LOAD FACTORS FOR DIFFERING OCCUPANCIES, BUILDING DIMENSIONS, HEIGHTS, FRAMING SYSTEMS, ROOF SLOPES, ETC., MAY RESULT IN DIFFERENT LOAD APPLICATION FACTORS THAN INDICATED BELOW. SEE CALCULATIONS FOR FURTHER DETAILS.

Building Code: BOCA - 1999 - National Building Code  
motion Industries: Building Use: Standard Occupancy Structures,  
LIVE LOADS AND RAINFALL  
Live Load 20.00 psf (Not Reducible)  
Rainfall: 4.00 in per hour  
**COL. LOAD = 3 PSF**  
SNOW LOAD  
Ground Snow: 70.00 psf, Flat Roof Snow: 49.00 psf  
Snow Exposure Category (Factor): 2 Partially Exposed (1.00)  
Snow Importance: 1.000 Thermal Category (Factor): Heated (1.00)

WIND LOAD  
Wind Speed: 90.00 mph, Wind Exposure: B  
Basic Wind Pressure: 10.29 (Part) 20.78 psf  
Wind Importance Factor: 1.094  
Wind Enclosure: Enclosed, 0.250  
Note: if the building is design as ENCLOSED, all windows, doors, skyfights and other covered openings must be designed for the specified above wind loads

EARTHQUAKE DESIGN DATA  
Lateral Force Resisting Systems using Equivalent Force Procedure  
Seismic Hazard / Use Group: Group 1  
Seismic Performance / Design Category: C (See Bolt Tightening Note Above)  
Aa: 0.1000, Av: 0.1000  
Seismic Snow Load: 9.80 psf  
Seismic Importance: 1.000  
Soil Factor 2.00  
Moment-Resisting Frame System  
Ordinary Steel Frames  
(R=4.5, Cd=4.0)  
Building Frame System  
Concentrically Braced Frames  
(R=5.0, Cd=4.5)  
Analysis Procedure 1610.4 used



LPS 9/3

9.3 of 100

THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.

THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE, GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN CONFORMANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, AND APPLICABLE VP BUILDINGS ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.



VP BUILDINGS, INC.  
AISC CATG. MB CERTIFIED

#### COVER SHEET

BUILDER PATCO CONSTRUCTION  
CUSTOMER Motion Industries  
LOCATION Portland, Maine  
PROJECT Motion Industries  
DRAWN BY



VP VERSION 5.0b

DATE 7/21/04  
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PAGE 1

7/21/2004

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**BUILDER/CONTRACTOR RESPONSIBILITIES**

VP Buildings follows the guidelines as outlined in the AISC and MBMA Codes of Standard Practice. VP Buildings standard product specifications, design, fabrication, quality criteria shall govern all work unless stipulated otherwise in the contract documents. In case of discrepancies between VP Buildings structural plans and plans for other trades, VP Building structural plans shall govern.

It is the responsibility of the Builder to obtain approvals and permits from all governing agencies and jurisdictions as required. Approval of VP Building drawings constitutes the builder's acceptance of VP interpretation of the contract purchase order. Unless specific design criteria concerning interface design and details are furnished as part of the contract, VP Buildings design assumptions shall govern.

VP engineers are not Project Engineers or Engineer of Record for the overall project. VP engineering supply sealed engineering design data and drawings for VP supplied material as part of the overall project for use by others to obtain permits, approvals, and coordinate with other trades. The Builder or A/E firm are responsible for the overall project coordination, including coordination with appropriate inspection and testing agencies. All interface and/or compatibility of any materials not furnished by VP are to be considered and coordinated by the builder or A/E firm.

**CONSTRUCTION & ERECTION RESPONSIBILITY**

The Builder is responsible for construction in strict accordance with VP Buildings "FOR CONSTRUCTION" drawings and all applicable product installation guides. VP is not responsible for work done from any other VP drawings that are not marked "FOR CONSTRUCTION", nor any drawings prepared by others. The Builder is responsible for accurate setting of anchor bolts (+/- 1/8" accuracy), erection of steel, and required alignment such that components are straight and plumb per MBMA Code of Standard Practice. Out of straightness for any member shall not exceed 1/300.

The building erector shall be properly licensed and experienced in erecting metal building systems. The Builder is responsible for having knowledge of, and shall comply with, all OSHA requirements and all other governing site safety criteria. The builder is responsible for designing, supplying, locating and installing temporary supports and bracing during erection of the building. VP bracing is designed for code required loads after building completion and shall not be considered as adequate erection bracing. See VP Builder Memo #BM-006.

**EXISTING STRUCTURES**

VP must be advised of any existing structure that is within 20 ft. of VP's building. Loadings of both buildings may be affected when adjacent buildings are within this distance. VP cannot be responsible for the design or loading of existing buildings.

**BRACING**

Tension brace rods work in pairs to balance forces caused by initial tensioning. Care must be taken while tightening brace rods so as not to cause accidental or misalignment of components. All rods must be installed loose and then tightened. Rods should not exhibit excessive sag. For long or heavy rods, or angles it may be necessary to support the rod at mid-bay by suspending it from a secondary member.

Bracing for seismic or wind loading of objects or equipment that are not a part of the VP structure must be designed by a qualified professional to deliver lateral loads to primary frames and rod bracing struts. Equipment bracing and suspension connections must not impose torsion or minor axis loads, or cause local distortion in any VP components. VP accepts no responsibility for design or installation of bracing systems not furnished by VP.

**FIELD WELDING**

All field welding shall be done at the direction of a design professional, and done in accordance with governing requirements (AWS in USA, CWB in Canada) by welders qualified to perform the welding as directed by the applicable welding procedure specification (WPS). A WPS shall be prepared by the contractor for each welding variation specified. Unless otherwise approved, use E70ksi yield, low hydrogen electrodes. The contractor shall provide for any special welding inspection as required by code.

**DELIVERIES**

It is the responsibility of the builder to have adequate equipment available at the job site to unload trucks in a safe and timely manner. The Builder will be responsible for all retention charges from carriers as a result of job site unloading delays.

Per VP Builder Memo #BM-001, claims for damage or losses MUST be noted on the Bill-of-Lading or delivery receipt and filed against the carrier by the consignee as per VP's Terms of Sales (F.O.B. Plant) under the Uniform Commercial Code. It is critical that damages or loss be noted on the Bill-of-Lading or you have little recourse with the carrier. Immediately upon delivery of material, material quantities are verified by the Builder against quantities billed on the shipping document. Neither the Manufacturer nor the carrier is responsible for material shortages against quantities billed on the shipping document if such shortages are not noted on the shipping documents upon delivery of material and acknowledged by the carriers agent. For materials concealed in bundles, boxes, or crates, shortages must be reported immediately upon unpacking. Should products get wet, bundled and crated materials must be unpacked and unbundled immediately to provide drainage of trapped moisture.

**SEALANTS**

Sealants shall be applied in strict accordance with VP details or weather tightness will be compromised. Sealant must be applied in temperatures and weather conditions consistent with labeling. Butyl Sealants - Service Temperature Range (Degrees): Min -40F (-40C); Max 200F (104C) Tape sealants - Service Temperature Range (Degrees): Min -60F (-50C); Max 212F (100C)

**INDEPENDENT MEZZANINES**

Independent mezzanines must be designed by a professional engineer. The engineer must ensure that proper isolation from the VP building has been provided to avoid structural damage due to differential movements, or inadvertently apply loads to the VP structure. VP accepts no responsibility for the design of the independent mezzanine.

**FIRE CODE COMPLIANCE**

It is the responsibility of the project design professional and builder to comply with local fire code regulations including consideration of, but not limited to, building use and occupancy, all building construction materials, separation requirements, egress requirements, fire protection systems, etc. Builder shall advise VP of any special requirements to be furnished by VP.

**FIELD MODIFICATIONS**

Modifications to this building from details and instructions contained on these drawings must be approved in writing by VP Building engineers, or other licensed structural engineer. This includes, but is not limited to, removal of roof or wall cladding, removing or moving any flange braces or rod braces, cutting of openings for doors, windows or RTUs, correction of fabrication errors, etc. The owner shall not impose loads to this structure beyond what is specified for this building in the contract documents. VP Buildings, Inc. accepts no responsibility for the consequences of any unauthorized additions, alterations, or added loads to this structure.

Per VP Builder Memo #BM-001, if the builder intends to invoice VP Buildings for modifications in excess of \$1000, the builder must notify VP Buildings immediately, and obtain a Work Authorization from VP Buildings prior to proceeding. All final claims must be submitted to VP Buildings with all supporting documentation within 30 days of the building completion. Claims submitted without work authorizations, or after 30 days will not be accepted. Correction of minor misfits, stemming and plumbing, moderate amount of reaming, drilling, chipping / cutting and minor welding are considered by Code of Standard Practice to be part of erection and not subject to claim reimbursement.

**CONCRETE/MASONRY/CONVENTIONAL STUD WALLS**

The engineer responsible for the design of the wall system is responsible for coordinating with, or specifying to VP Buildings, any wall to steel compatibility issues such as drift and deflection compatibility, special base details, and wall to VP steel connections. All fasteners, sealant and counter flashing of wall systems are to be provided by contractor.

**PANELS**

Oil canning is an inherent characteristic of cold formed steel panels. It is the result of several factors that include induced stresses in the raw material delivered to VP, fabrication methods, installation procedures, and post installation thermal forces. Thru fastened panels will exhibit some dimpling when installed, especially when insulation is installed between panels and secondary supports. Dimpling can be minimized by careful installation, taking care not to over drive fasteners.

Roof rumble is a phenomenon that is caused by wind gusts lifting up on the roof panels and then springing back into place. All panels experience this action to some degree, especially with concealed clip panels such as SSR and SLR. Roof rumble noise may be minimized by providing a layer of blanket insulation between the panels and any hard support surface such as steel secondary members, substrates such as plywood, steel decking, or rigid board insulation. A minimum of 2 inch thick blanket is recommended over steel secondary members, or 1 inch over substrates.

Oil canning, dimpling, and roof rumble do not affect the structural integrity or weather tightness of the panels and is not grounds for rejection of panels.

**SKYLIGHTS**

VP's Tuffites and VP's domed skylight have been tested to support a 300 lb. load over a 1 sq. ft. area, as well as uniform gravity and uplift load test. Local building departments may require added fall restraint due to conditions that may affect the skylight structural integrity. It is the responsibility of the builder to determine and provide any added fall restraint under the skylight as may be required by your building department.

**RAIN WATER RUNOFF**

Drainage systems must be designed by the project engineer to comply with code requirements. VP is not responsible for drainage designs, overflow scouppers, down piping, etc. The project professional and contractor are responsible to ensure that overflow devices such as scouppers and auxiliary drains are provided as required for the required rain intensity at the building perimeter and at valley conditions to prevent ponding.

**STEEL SHOP COAT**

The purpose of VP's shop coat is to provide protection for the steel members during transportation, during temporary job site storage and during erection. Standard shop formulation is not designed to perform as a finish coat when exposed to environmental conditions. Members shall be kept free of the ground and properly drained during job site storage. It is the Builder's responsibility to ensure that if a finish coat is being applied over VP shop coat that the painting contractor verifies compatibility between his finish coat and VP's shop coat. See VP Builder Memo #BM-001 & #BM-002.



**BRACING**

This building was not designed with any wall bracing. The lateral load from the new endwall at Grid 1 is to be transferred across the ridge and low eave purlins to the existing roof and wall bracing. It is the builder's responsibility to attach the new purlins to the existing purlins at the locations and per the details provided on these drawings.

**CRANE NBVP**

Crane rails, crane beams, cap channels, stiffeners and lateral crane tiebacks are NOT by VP Buildings. Crane brackets and longitudinal crane bracing is being supplied VP Buildings. Top of crane brackets are 19'-6 1/4" above finished floor and centerline of centerline of the crane rails will be 19'-8 1/2". The builder and crane supplier shall verify that the crane shall work based on this given dimensions.

**VP BUILDINGS CERTIFICATIONS**

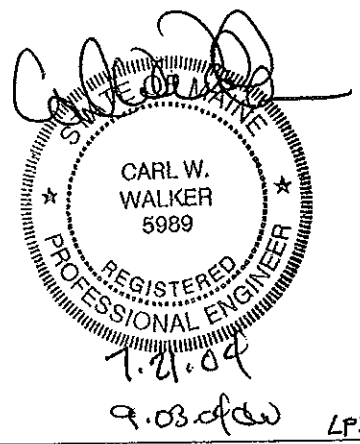
Location	PLANT SPECIFIC CERTIFICATIONS						
	Alabama	Arkansas	California	Missouri	No. Carolina	Wisconsin	Mexico
AISC	MB Cert	MB Cert	MB Cert	MB Cert	MB Cert	MB Cert	MB Cert
ISO	9001	9001	9001	9001	9001	9001	
IAS	FA-377	FA-401	FA-240	FA-388	FA-376	FA-378	
CSA			A-660			A-660	
CWB			Div. 1			Div. 1	
Los Angeles, CA			Div. 1			Div. 1	
Houston, TX		Approved					Approved
Riverside, CA			Type 1 Fab #SP02-0028				
Clark Co., NV			Fab ID# 241				
San Bernardino Co, CA			Fab ID# 121				

SSR Roof System: ICC-ES Report #ER-5621  
 Panel Rib Roof and Panel Rib & Vee Rib Wall System: ICC-ES Report #ER-4879  
 State of Florida Product Approval (Listed as VP Buildings)  
 Dade Co. Product Certification  
 SSR Roof NOA#03-0206.13; Panel Rib Roof NOA#02-0123.08; Panel Rib Wall NOA#02-04187.01;  
 Vee Rib Wall NOA#01-1128.05  
 Underwriter's Laboratory Approvals  
 SSR Roof/UL#TGKX-113; SSR Composite Roof Class 90-UL#TGKX-113A; SSR Roof w/Super Block Class 90-UL#TGKX-328;  
 Panel Rib Roof UL Class 90-UL#TGKX-60; Panel Rib Roof UL Class 90-UL#TGKX-64;  
 VP SLR/AEP SL Roof Class 90-UL#TGKX-60  
 Factory Mutual Approved Assemblies  
 SSR Roof Systems are approved in various type applications and listed in FM Approval Guide.  
 .24 Ga SSR (0.0227" Nominal), is available in Class 1-60, 1-75, 1-90. 22Ga SSR (0.0227" Nominal), is available in Class 1-75, 1-90, 1-120.

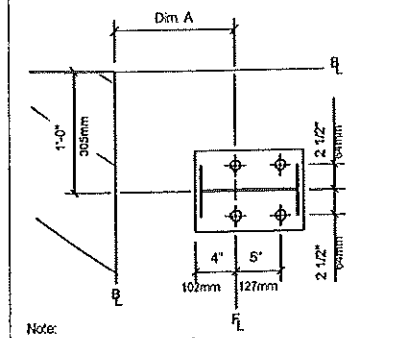
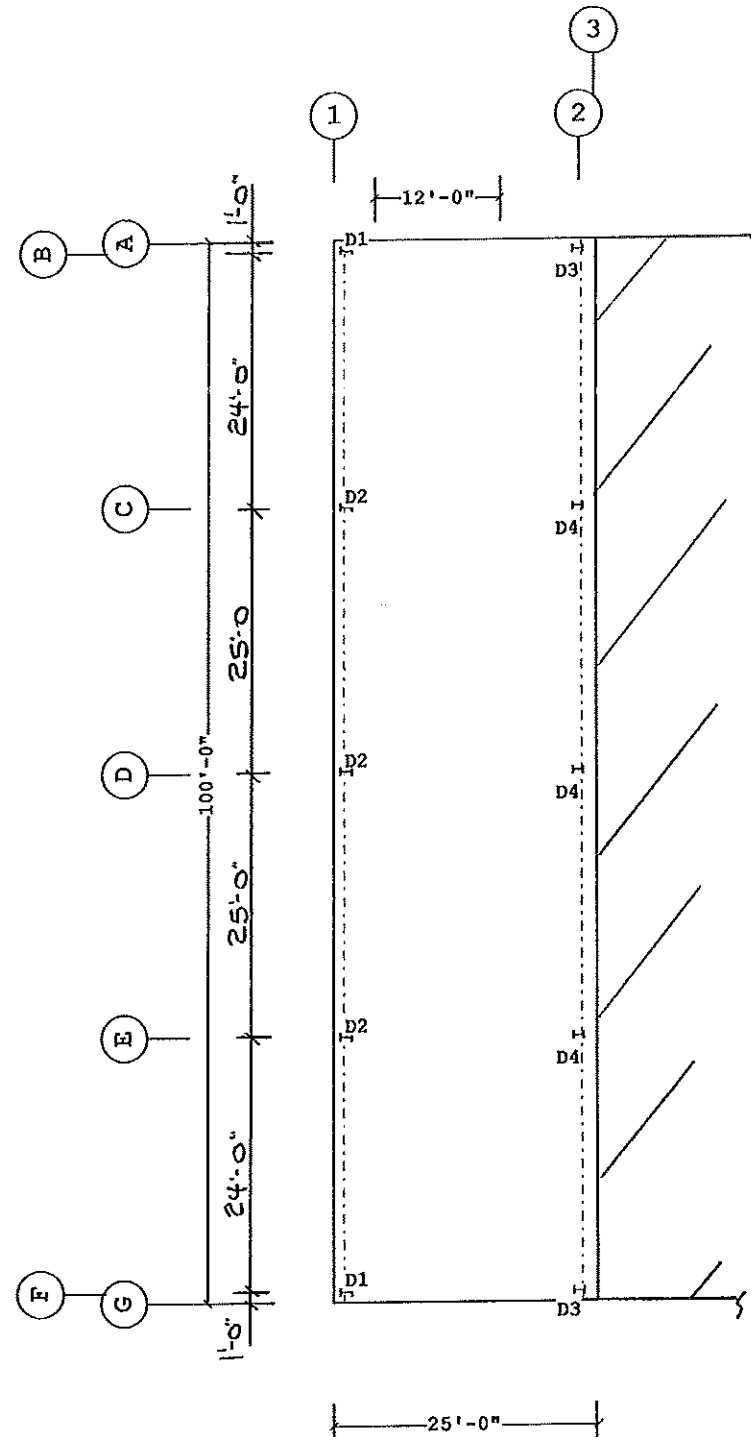


Any modifications of the existing building(s), including (but not limited to) the removal of any girts, sheeting, or bracing, may compromise the structural integrity of the existing building. If any modifications are to be made, it is the responsibility of the builder to have the existing building checked by a qualified design professional and reinforced, if necessary.

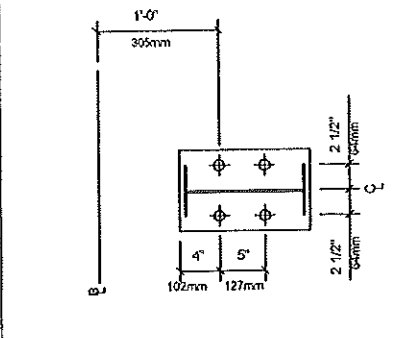
The addition of the new structure changes the overall geometry of the complex. The existing structures need to be reviewed by a qualified design professional for their ability to support the potentially altered environmental loads.



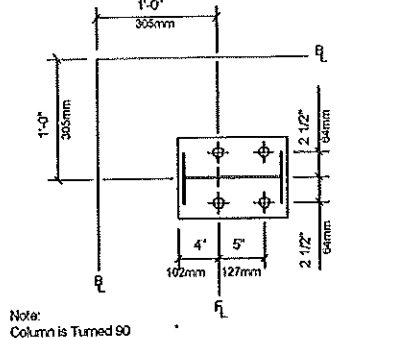
<p>THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.</p>	<p>THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS.</p>	<p>VP Buildings, Inc. 3200 Players Club Circle Memphis TN 38125</p>		<p><b>Erection Notes</b></p>		
		<p>DATE: 7/21/04</p>	<p>BY: [Signature]</p>	<p>BUILDER: PATCO CONSTRUCTION</p>	<p>CUSTOMER: Motion Industries</p>	<p>LOCATION: Portland, Maine</p>
<p>7/21/04 6:52:56</p>		<p>FILENAME: W0400750-010E1.vpc</p>		<p>VP BUILDINGS WOODBRIDGE VPC VERSION: 5.0b</p>		<p>JOB # W0400750-01 DATE: 7/21/04 DRAWN/CHECK: MAH PAGE: 2</p>



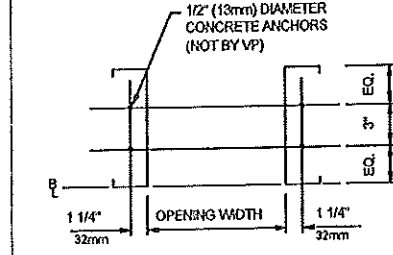
D3 (4) 3/4" Dia. A36 A.Bolts  
Plate W=9" L=1'-1"  
Elev.=100'-0" Dim A=1'-6 1/2"



D2 (4) 3/4" Dia. A36 A.Bolts  
Plate W=9" L=1'-1"  
Elevation=100'-0"

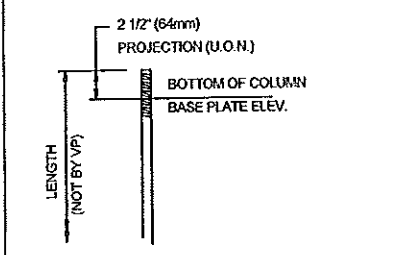


D1 (4) 3/4" Dia. A36 A.Bolts  
Plate W=9" L=1'-1"  
Elevation=100'-0"

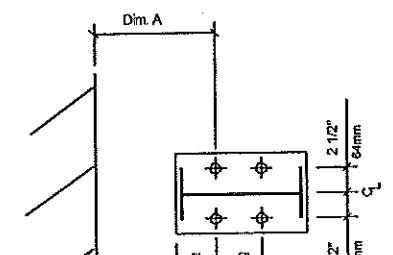


NOTE: 1" (25mm) PROJECTION ABOVE  
BOTTOM OF JAMB CLIP

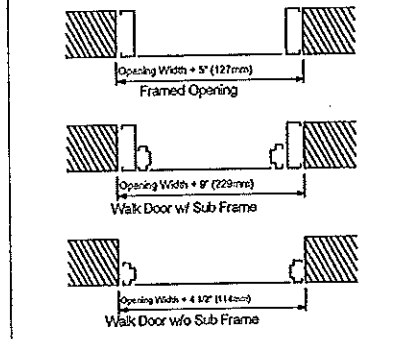
FRAMED OPENING DETAIL



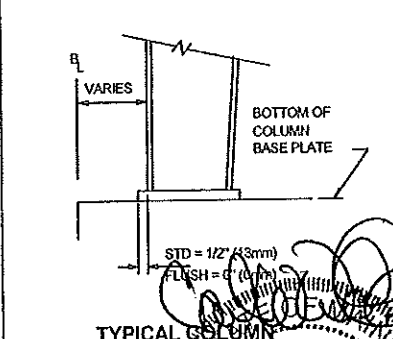
TYPICAL ANCHOR  
BOLT PROJECTION



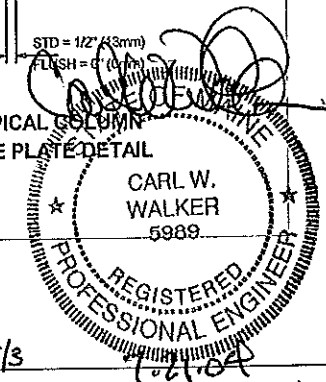
D4 (4) 3/4" Dia. A36 A.Bolts  
Plate W=10" L=1'-1"  
Elev.=100'-0" Dim A=1'-6 1/2"



FRAMED OPENING AT MASONRY



TYPICAL COLUMN  
BASE PLATE DETAIL



1 1'-0"  
Dimension Key

Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)

1. CONCRETE, GROUT, ANCHOR BOLTS, AND ANY OTHER EMBEDDED ITEMS ARE TO BE FURNISHED BY OTHERS  
2. ANCHOR BOLT DIAMETERS WERE DETERMINED BY ALLOWABLE SHEAR AND TENSION PER AISC SPECIFICATIONS (FY = 36 KSI). ANCHOR BOLT LENGTH, EFFECTS OF EMBEDDED ANCHOR BOLT EDGE DIMENSIONS AND METHOD OF TRANSFERRING FORCES FROM ANCHOR BOLTS TO FOOTINGS ARE TO BE DETERMINED BY OTHERS.  
3. DESIGN LOADS AND REACTIONS ARE FURNISHED IN THE REACTIONS REPORT.  
4. FOUNDATION MUST BE LEVEL, SQUARE AND SMOOTH. ANCHOR BOLTS MUST BE ACCURATELY PLACED AS SHOWN ON THIS DRAWING OR STEEL WILL NOT FIT.

THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.

THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. IT IS PROVIDED SOLELY FOR EXECUTING THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS.

THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE, GOOD QUALITY WORKMANSHIP IN EXECUTING THIS BUILDING IN CONFORMANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP ERECTOR GUIDE, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.

REV	DATE	BY	DESCRIPTION

VP Buildings, Inc. 3200 Players Club Circle Memphis TN 38125			

ANCHOR BOLT PLAN	
BUILDER	PATCO CONSTRUCTION
CUSTOMER	Motion Industries
LOCATION	Portland, Maine
PROJECT	Motion Industries
BUILDER'S P.O.#	

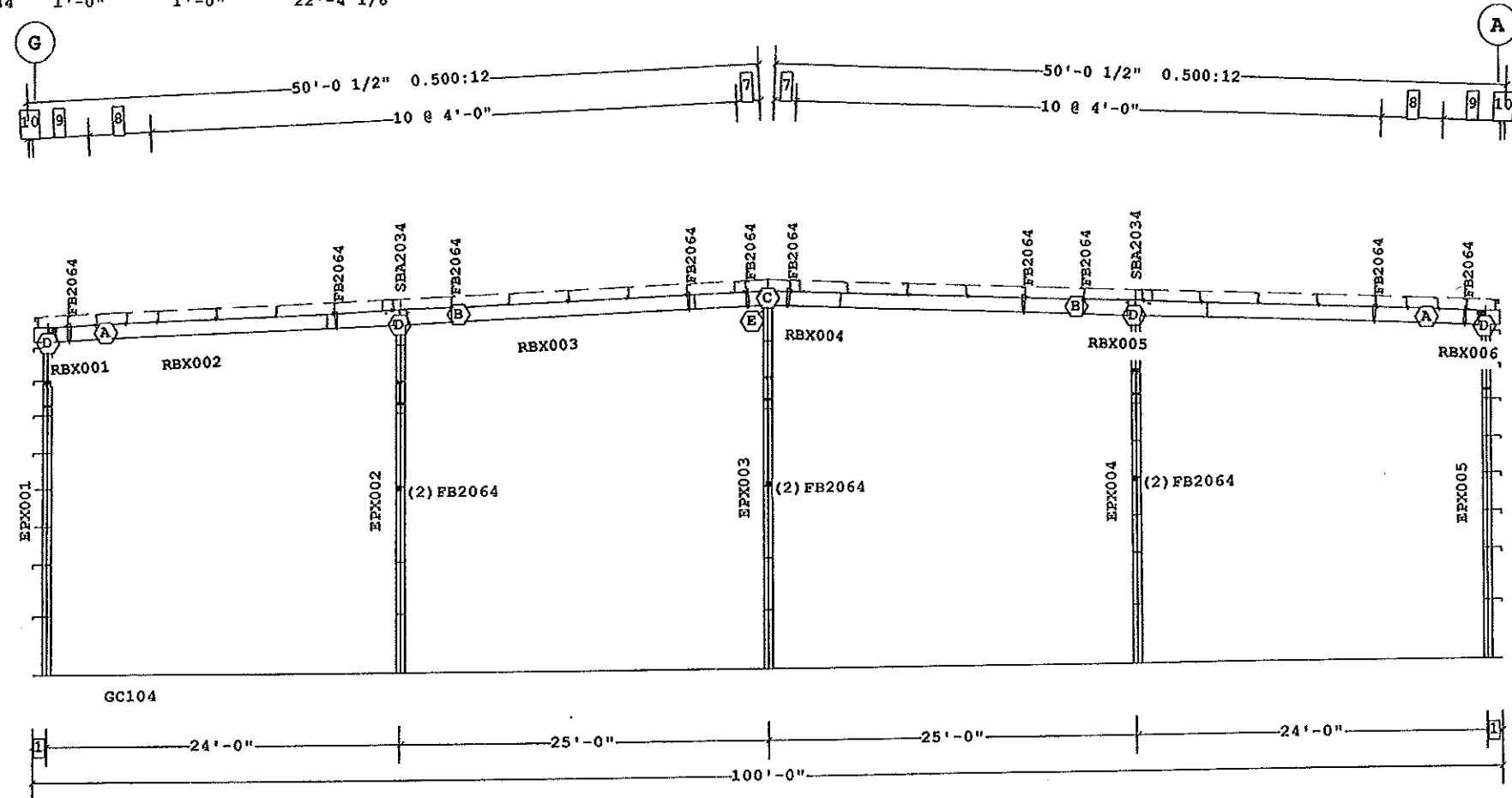
VP BUILDINGS 13000 PLYMOUTH	VP VERSION: 5.0b
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JOB #	W0400750-01
DATE	7/21/04
DESIGN/CHECK	MAH
SHEET	3

Frame Member Schedule						
Part	Mem. Width	Thick.	Webthk	Depth1	Depth2	Approx. Lgth
RBX001	1 5"	.1345	.1345	1'-0"	1'-0"	5'-0"
RBX002	3 5"	.2500	.1644	1'-0"	1'-0"	24'-0 1/4"
RBX003	6 5"	.1875	.1345	1'-0"	1'-0"	21'-0 1/4"
	7 5"	.2500	.1345	1'-0"	1'-0"	
RBX004	8 5"	.2500	.1345	1'-0"	1'-0"	21'-0 1/4"
	9 5"	.1875	.1345	1'-0"	1'-0"	
RBX005	10 5"	.2500	.1644	1'-0"	1'-0"	24'-0 1/4"
RBX006	13 5"	.1345	.1345	1'-0"	1'-0"	5'-0 1/2"
EPX001	15 7"	.3125	.1644	1'-0"	1'-0"	22'-4 1/8"
EPX002	16 7"	.3750	.1644	1'-0"	1'-0"	23'-4 1/8"
EPX003	17 7"	.3750	.1644	1'-0"	1'-0"	24'-4 1/2"
EPX004	18 7"	.3750	.1644	1'-0"	1'-0"	23'-4 1/8"
EPX005	19 7"	.3125	.1644	1'-0"	1'-0"	22'-4 1/8"

A325 Bolt Connection & Plate Schedule									
Id	Qty	Bolt Dia.	Bolt Length	Plate Thick.	Rows Out	Rows In	Tension Bolt	Washer	
A	4	3/4"	2"	1/2"	1	1			
B	6	3/4"	2"	3/8"	2	1			
C	6	3/4"	2 1/4"	5/8"	2	1			
D	4	1/2"	1 1/2"	3/8"	1	1			
E	4	1/2"	1 1/2"	3/8"	1	1	Yes		

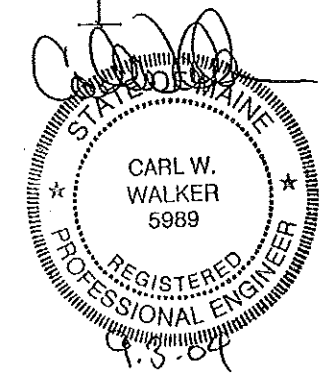
Frame Clearances  
 Vert. Clearance at member 15 (EPX001): 22'-4"  
 Vert. Clearance at member 16 (EPX002): 23'-4"  
 Vert. Clearance at member 17 (EPX003): 24'-4 1/2"  
 Vert. Clearance at member 18 (EPX004): 23'-4"  
 Vert. Clearance at member 19 (EPX005): 22'-4"  
 Finished Floor Elevation = 100'-0" (Unless Noted Otherwise)



- 11 26'-1"
- 10 3 7/16"
- 9 2 @ 2'-0"
- 8 2 @ 2'-1 3/8"
- 7 1'-6 3/8"
- 6 2'-0 3/4"
- 5 2 @ 2'-3"
- 4 4 @ 2'-6"
- 3 3'-5 1/4"
- 2 4'-0"
- 1 1'-0"

Dimension Key

FRAME CROSS SECTION AT FRAME LINE(S) 1



LPS 9/3

1. USE 1/2 DIA. A325 BOLTS FOR PURLIN TO FRAME, GIRT TO FRAME, AND GIRT TO CLIP CONNECTIONS UNLESS NOTED OTHERWISE. SEE JOB DETAILS FOR BOLT LENGTHS. 2. SLOT REINFORCEMENT PLATES NEED NOT BE LOCATED ON THE SAME SIDE OF THE WEB AS THE HILLSIDE WASHER.	THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.	THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. IT IS PROVIDED SOLELY FOR THE BUILDING CONTRACTOR'S USE IN THE CONSTRUCTION OF THE BUILDING. IT IS NOT TO BE REPRODUCED, COPIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS. THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE, GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN CONFORMANCE WITH THIS DRAWING, ALL APPLICABLE VP ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.	VP Buildings, Inc. 3200 Players Club Circle Memphis TN 38125	<b>FRAME CROSS SECTION AT FRAME LINE(S) 1</b>	
			REV DATE BY DESCRIPTION	BALDER PATCO CONSTRUCTION CUSTOMER Motion Industries LOCATION Portland, Maine PROJECT Motion Industries BUILDERS PDM	JOB # W0400750-01 DATE 9/2/04 DRAWN/CHECK AMZ NC VP VERSION: 5.0b PAGE 5

Part Mark Key

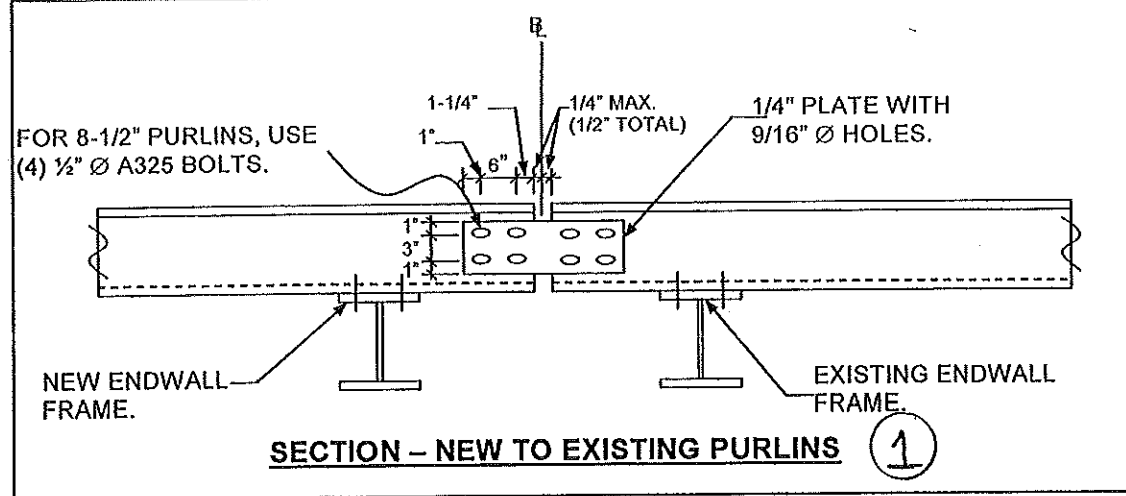
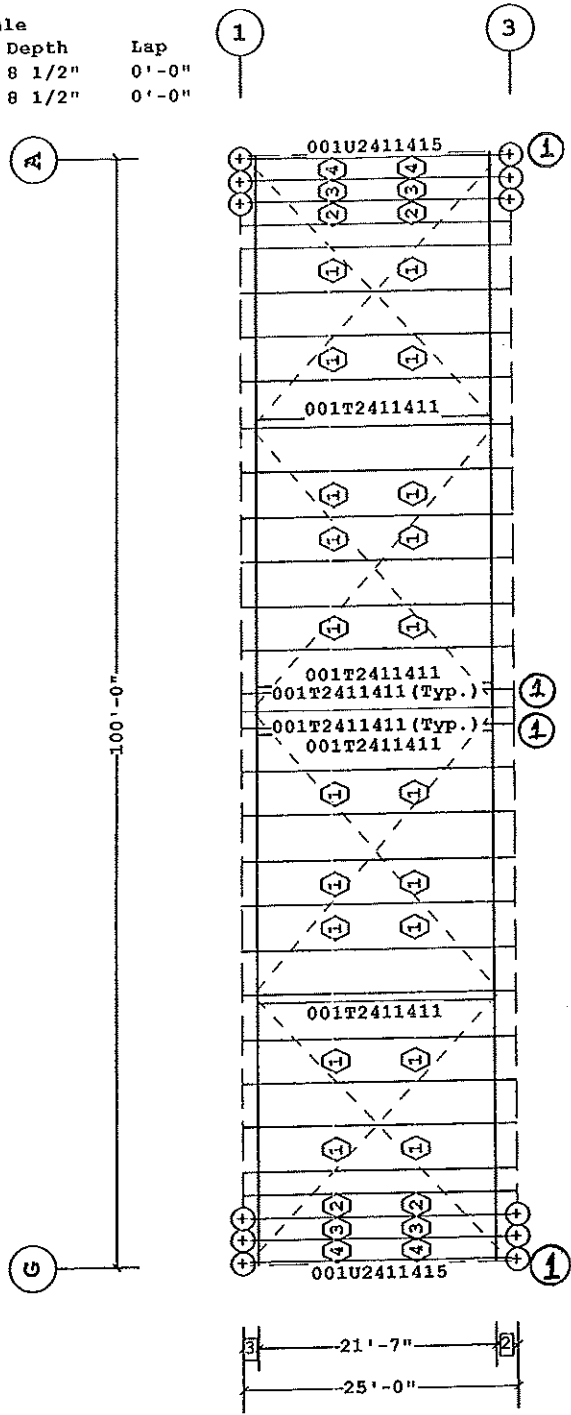
1	SA4022
2	SA2036
3	SA2024
4	SA2023

Non-Std Secondary Part Schedule

Part	Thick.	Depth	Lap
001T2411411	0.1200	8 1/2"	0'-0"
001U2411415	0.0730	8 1/2"	0'-0"

(+) SSR Fixed Clip Location

Sag Angle Schedule  
 (40)SA4022 Typ. at 4'-0" spaces  
 (8)SA2036 Typ. at 2'-1 3/8" spaces  
 (8)SA2024 Typ. at 2'-0" spaces  
 (8)SA2023 Typ. at 2'-0" spaces  
 See SED: BR09A5 for installation  
 See Part Mark Key for Sag Angle X-ing location



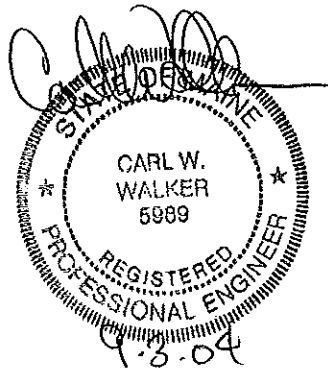
**NOTES FOR NEW-TO-EXISTING PURLIN CONNECTION:**

1. Use 1/2" Ø A325 bolts.
2. If holes are not existing, field drill new holes. Drill ONLY, do not burn holes.

Dimension Key

3	1'-5"
2	2'-0"
1	1'-0"

ROOF SECONDARY PLAN



APJ 9/3

<p>1. UNLESS NOTED, USE 1/2 DIAMETER A-325 BOLTS FOR PURLIN LAP, PURLIN TO FRAME, FLANGE BRACE TO FRAME, AND FLANGE BRACE TO PURLIN CONNECTIONS. SEE JOB DETAILS FOR BOLT LENGTHS.</p> <p>2. WIND, FLANGE, AND PURLIN BRACING ARE AN INTEGRAL PART OF THE ROOF STRUCTURAL SYSTEM AND SHOULD BE PROPERLY INSTALLED PRIOR TO ERECTION OF WALL AND ROOF SHEETS. REMOVAL OR ALTERATION OF ROOF BRACING WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.</p>	<p>THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.</p>	<p>THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. IT IS PROVIDED SOLELY FOR THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSES WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS.</p> <p>THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE, GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN CONFORMANCE WITH THE DRAWING. DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP ERECTOR GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.</p>	<p>VP Buildings, Inc.          3200 Players Club Circle Memphis TN 38125</p>	<p><b>ROOF SECONDARY PLAN</b></p>		<p>NO # W0400750-01</p>													
			<table border="1"> <tr><th>REV</th><th>DATE</th><th>BY</th><th>DESCRIPTION</th></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	REV	DATE	BY	DESCRIPTION												
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<p>VP Ref: Shape Name = motion industries</p>		<p>9/3/2004 7:55:15</p>		<p>FILENAME: Copy of W0400750-010E1.vpc</p>															









Covering Schedule								
Id	Qty	Type	Length	Gage	OP	Fin.	Color	Direction
#94	6	VR	24'-0"	26	1	K	SB	Left to Right
#95	3	VR	11'-11 1/2"	26	1	K	SB	Left to Right

Oper. Code: 1=SQ, SQ  
 Finish: K=KXL  
 Color: SB=SB (Special Color)

Trim Schedule	
Id	Parts
T1	EG161, EG121, (2) PCA10A, PCA05A, (14.2) STR4
T2	DF12, JT12
T3	DF12, HTS12
T4	(0.7) BA1, (2) BT10
T5	DE1, DN1, (3) DS10, (5) DST1

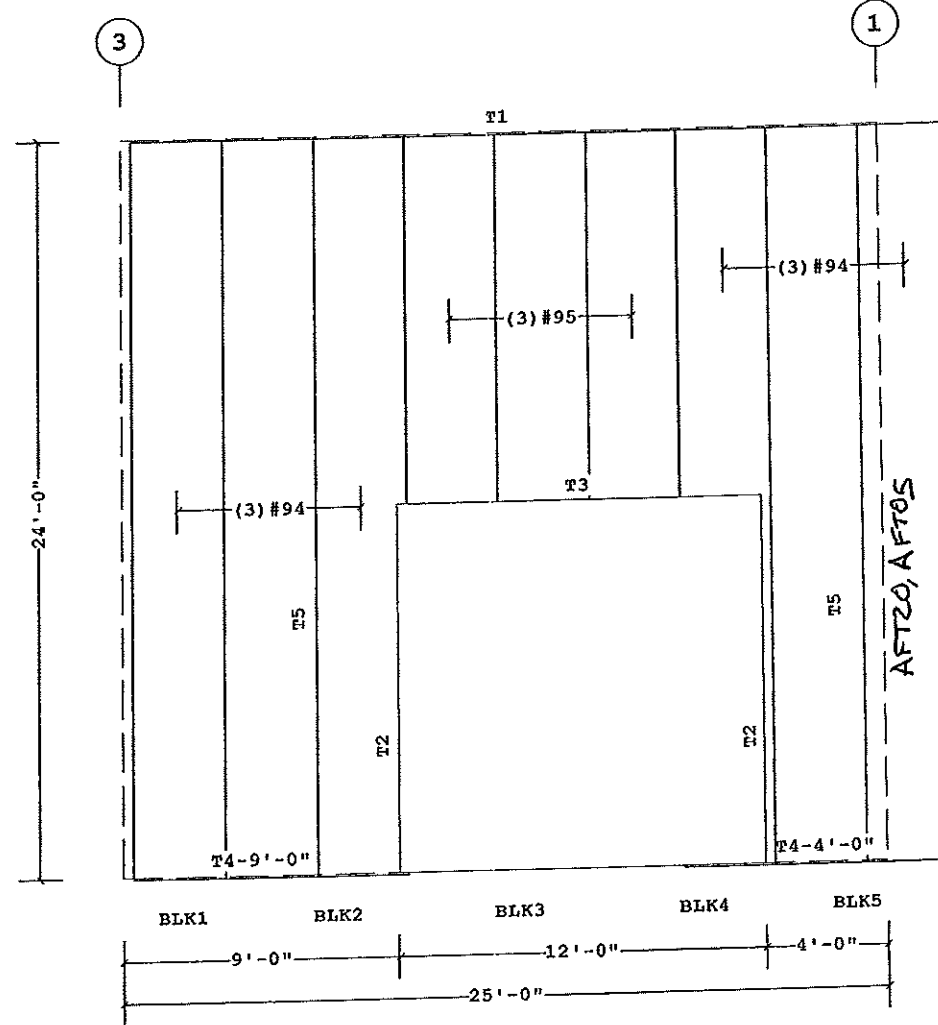
Color	Details
Egyptian White	RC03A2, RC32A2, RC38E2, RC61A6, WC04B1
Egyptian White	WC24B1
Egyptian White	WC24B2
SB (Special Color)	EN52B1, WC01B3, WC04B1
Match Wall Color	RC38F1

Insulation Schedule (Install in same direction as Covering)

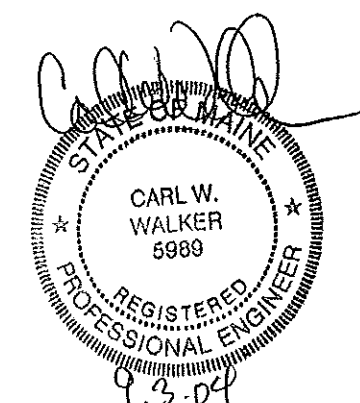
Id	Qty	Type	Start Run	Last Run	Thick.	Facing
BLK1	1	IB	25'-0"		4.00	PL
BLK2	1	IB	25'-0"		4.00	PL
BLK3	1	IB	13'-0"		4.00	PL
BLK4	1	IB	25'-0"		4.00	PL
BLK5	1	IB	25'-0"		4.00	PL

Starter Width= 4'-0", Interm. Width= 6'-0", End Width= 4'-0"  
 Location =Outside Secondary Structural  
 Direction =Across Secondary Structural  
 Type: IB=Fiberglass Blanket  
 Facing: PL=Polypropylene Scrim Kraft, Light Duty  
 VP Ref: Shape Name = motion industries, Wall = 2

NOTE: Lap Wall Panel Onto Existing Building



COVERING ELEVATION AT A



LPT 9/3

<p>1. WALL SHEETS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM, REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.</p> <p>2. SEE JOB DETAILS FOR SHEETING AND TRIM FASTENER SPECIFICATION.</p> <p>3. PRE-DRILLING 1/8 DIAMETER HOLES FOR WALL STRUCTURAL FASTENERS MAY BE REQUIRED AT 11 GAGE GIRTS, NESTED GIRTS, GIRT LAP LOCATIONS, AND/OR SECONDARY STRUCTURAL BEAMS</p>		<p>THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.</p>	<p>THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS. IT IS PROVIDED SOLELY FOR THE BUILDING DESCRIBED IN THE APPLICABLE PURCHASE ORDER AND SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT WRITTEN APPROVAL OF VP BUILDINGS.</p> <p>THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE, GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN CONFORMANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.</p>	<p>VP Buildings, Inc. 3200 Players Club Circle Memphis TN 38125</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>NTS 7:39:25</p>	REV	DATE	BY	DESCRIPTION					<p><b>COVERING ELEVATION AT A</b></p> <table border="1"> <tr> <td>BUILDER</td> <td>PATCO CONSTRUCTION</td> </tr> <tr> <td>CUSTOMER</td> <td>Motion Industries</td> </tr> <tr> <td>LOCATION</td> <td>Portland, Maine</td> </tr> <tr> <td>PROJECT</td> <td>Motion Industries</td> </tr> <tr> <td>BUILDER'S PO#</td> <td></td> </tr> </table> <p>VP VERSION: 5.0b</p>	BUILDER	PATCO CONSTRUCTION	CUSTOMER	Motion Industries	LOCATION	Portland, Maine	PROJECT	Motion Industries	BUILDER'S PO#		<table border="1"> <tr> <td>JOB #</td> <td>W0400750-01</td> </tr> <tr> <td>DATE</td> <td>9/2/04</td> </tr> <tr> <td>DRAWN/CHECK</td> <td>AMZ NC</td> </tr> <tr> <td>PAGE</td> <td>12</td> </tr> </table>	JOB #	W0400750-01	DATE	9/2/04	DRAWN/CHECK	AMZ NC	PAGE	12
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VP Ref: Shape Name = motion industries, Wall = 2

9/3/2004

FILENAME: Copy of W0400750-010E1.vpc

Covering Schedule								
Id	Qty	Type	Length	Gage	OP	Fin.	Color	Direction
#96	9	VR	24'-0"	26	1	K	SB	Left to Right

Oper. Code:1=SQ,SQ  
Finish:K=KXL  
Color:SB=SB (Special Color)

Trim Schedule	
Id	Parts
T1	EG161,EG121, (2)PCA10A,PCA05A, (14.2)STR4
T2	(1.3)BAL, (3)BT10
T3	DE1,DN1, (3)DS10, (5)DST1

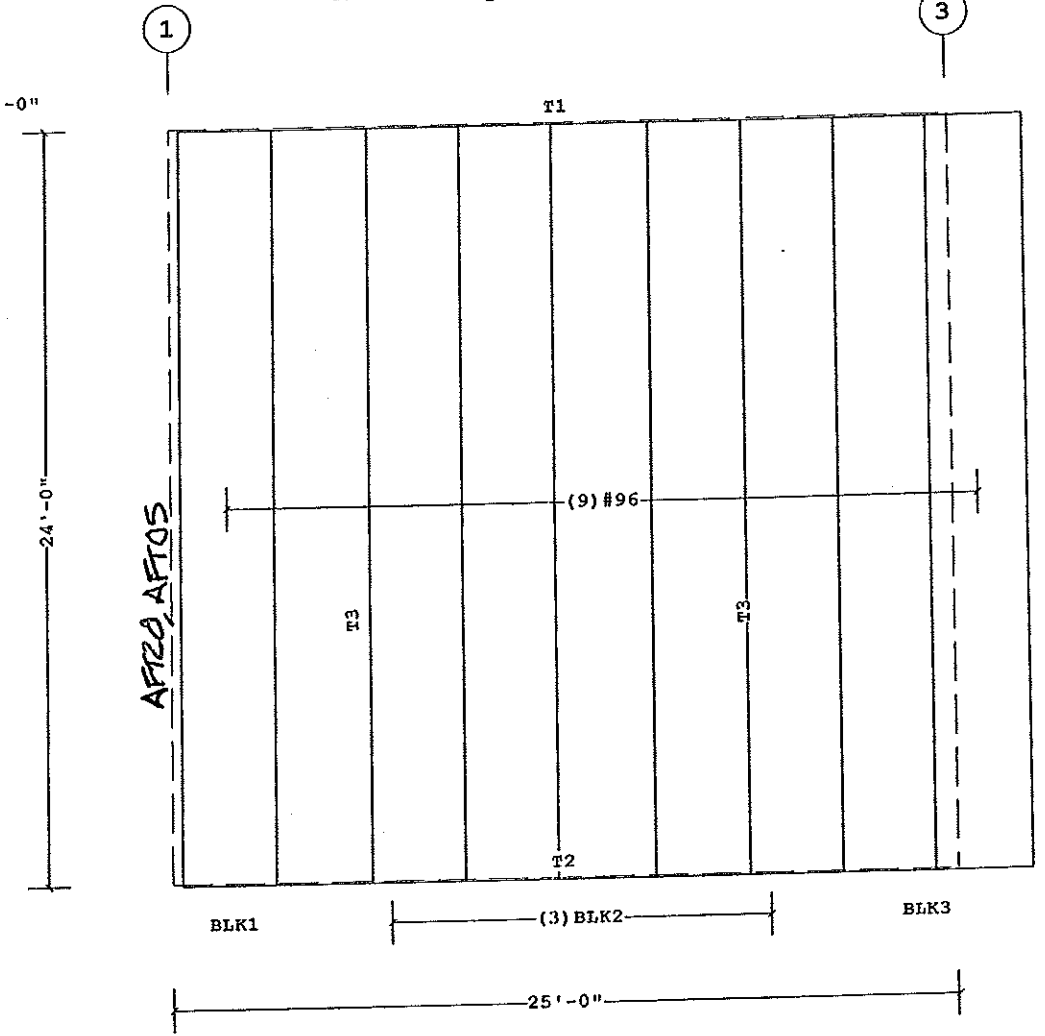
Color	Details
Egyptian White	RC03A2,RC32A2,RC38E2,RC61A6,WC04B1
SB (Special Color)	EN52B1,WC01B3,WC04B1
Match Wall Color	RC38F1

Insulation Schedule (Install in same direction as Covering)

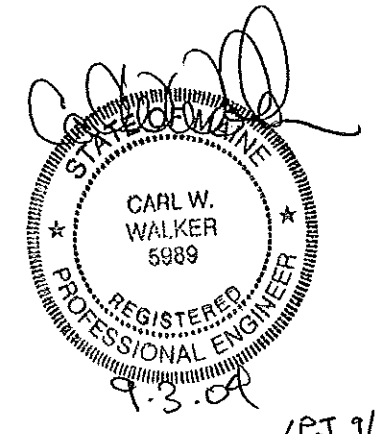
Id	Qty	Type	Start Run	Last Run	Thick.	Facing
BLK1	1	IB	25'-0"		4.00	PL
BLK2	3	IB	25'-0"	25'-0"	4.00	PL
BLK3	1	IB	25'-0"		4.00	PL

Starter Width= 4'-0", Interm. Width= 6'-0", End Width= 4'-0"  
Location =Outside Secondary Structural  
Direction =Across Secondary Structural  
Type:IB=Fiberglass Blanket  
Facing:PL=Polypropylene Scrim Kraft, Light Duty  
VP Ref: Shape Name = motion industries, Wall = 4

NOTE: Lap Wall Panel Onto Existing Building



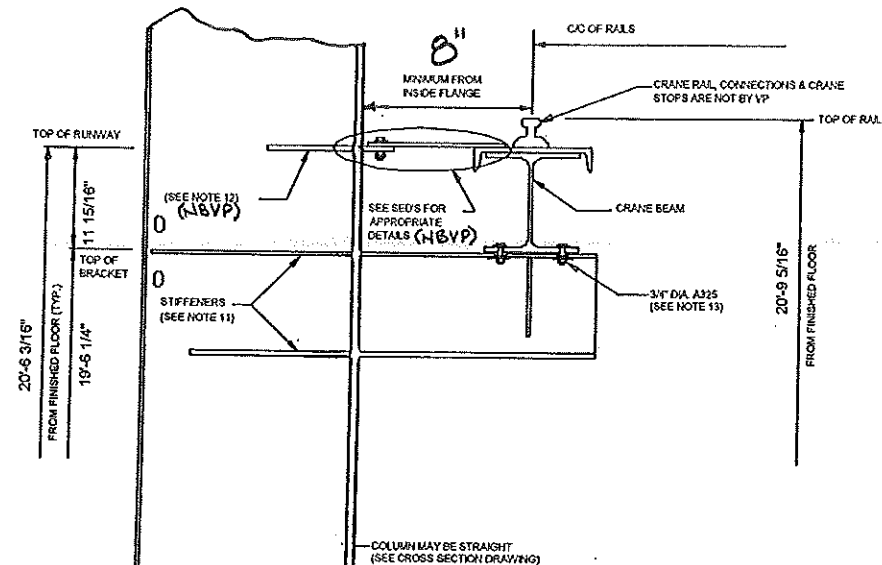
COVERING ELEVATION AT G



LPJ 1/3

<p>VP Ref: Shape Name = motion industries, Wall = 4</p> <p>1. WALL SHEETS ARE AN INTEGRAL PART OF THE STRUCTURAL SYSTEM. REMOVAL OR ALTERATION WITHOUT PRIOR AUTHORIZATION IS PROHIBITED.</p> <p>2. SEE JOB DETAILS FOR SHEETING AND TRIM FASTENER SPECIFICATION.</p> <p>3. PRE-DRILLING 1/8 DIAMETER HOLES FOR WALL STRUCTURAL FASTENERS MAY BE REQUIRED AT 11 GAGE GIRTS, NESTED GIRTS, GIRT LAP LOCATIONS, AND/OR SECONDARY STRUCTURAL BEAMS</p>		<p>THE VP ENGINEER'S SEAL APPLIES ONLY TO THE WORK PRODUCT OF VP AND DESIGN AND PERFORMANCE REQUIREMENTS SPECIFIED BY VP. THE VP ENGINEER'S SEAL DOES NOT APPLY TO THE PERFORMANCE OR DESIGN OF ANY OTHER PRODUCT OR COMPONENT FURNISHED BY VP EXCEPT TO ANY DESIGN OR PERFORMANCE REQUIREMENTS SPECIFIED BY VP.</p>	<p>THIS DRAWING, INCLUDING THE INFORMATION HEREON, REMAINS THE PROPERTY OF VP BUILDINGS.</p> <p>IT IS PROVIDED SOLELY FOR ERECTING THE BUILDING INDICATED IN THE APPLICABLE PURCHASE ORDER AND SHALL NOT BE MODIFIED, REPRODUCED OR USED FOR ANY OTHER PURPOSE WITHOUT PRIOR WRITTEN APPROVAL OF VP BUILDINGS.</p> <p>THE GENERAL CONTRACTOR AND/OR ERECTOR IS SOLELY RESPONSIBLE FOR ACCURATE, GOOD QUALITY WORKMANSHIP IN ERECTING THIS BUILDING IN CONFORMANCE WITH THIS DRAWING, DETAILS REFERENCED IN THIS DRAWING, ALL APPLICABLE VP ERECTION GUIDES, AND INDUSTRY STANDARDS PERTAINING TO PROPER ERECTION, INCLUDING THE CORRECT USE OF TEMPORARY BRACING.</p>	<p>VP Buildings, Inc. 3200 Players Club Circle Memphis TN 38125</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>NTS</p>	REV	DATE	BY	DESCRIPTION					<p><b>COVERING ELEVATION AT G</b></p> <table border="1"> <tr> <td>BUILDER</td> <td>PATCO CONSTRUCTION</td> </tr> <tr> <td>CUSTOMER</td> <td>Motion Industries</td> </tr> <tr> <td>LOCATION</td> <td>Portland, Maine</td> </tr> <tr> <td>PROJECT</td> <td>Motion Industries</td> </tr> <tr> <td>BUILDER'S PO#</td> <td></td> </tr> </table>	BUILDER	PATCO CONSTRUCTION	CUSTOMER	Motion Industries	LOCATION	Portland, Maine	PROJECT	Motion Industries	BUILDER'S PO#		<table border="1"> <tr> <td>VP BUILDINGS</td> <td>W0400760-01</td> </tr> <tr> <td>VP VERSION: 5.0b</td> <td>DATE: 9/2/04</td> </tr> <tr> <td></td> <td>DRAWN/CHECK: AMZ NC</td> </tr> <tr> <td></td> <td>PAGE: 13</td> </tr> </table>	VP BUILDINGS	W0400760-01	VP VERSION: 5.0b	DATE: 9/2/04		DRAWN/CHECK: AMZ NC		PAGE: 13
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<p>9/3/2004</p>		<p>7:39:28</p>		<p>FILENAME: Copy of W0400760-01OE1.vpc</p>																												

NOTE: THE CRANE BRACKET SHOWN ON THIS DRAWING MAY NOT REPRESENT ACTUAL SUPPORT CONDITIONS. REFER TO OTHER DETAILS AND NOTES ELSEWHERE IN THESE DRAWINGS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.



TOP RIDING BRIDGE CRANE AND BRACING DETAIL

CRANE DESIGN DATA

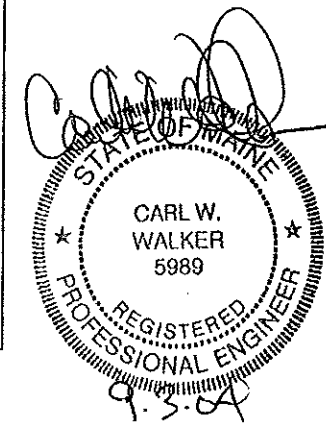
CRANE CLASSIFICATION:	C (Moderate Service)	IMPACT: VERTICAL =	15.00 % OF WHEEL LOAD
CRANE CAPACITY:	3.00 Ton	LATERAL =	20.00 % OF LIFTED LOAD + TROLLEY
CRANE SPAN:	19'-8 1/2" (C/C OF RAILS)	LONGITUDINAL =	10.00 % OF MAXIMUM WHEEL LOADS, PER RAIL
WHEEL SPACING:	4'-6"	RUNWAY BEAM SIZE:	W 12 X 40.00 Not By VP
TROLLEY/HOIST WT.	0.30 k	YIELD STRENGTH:	36 KSI U.N.O.
BRIDGE WT.	2.40 k	CRANE RAIL SIZE:	ASCE Light 30 lb/ft Not By VP
MAXIMUM WHEEL LOAD:	3.56 k (W/O IMPACT)		
RUN-UP DIST. (IF TWO CRANES)	0.00 ft		

CRANE DATA NOTES:  
 VERIFICATION REQUIRED. IF DIFFERENT FROM ABOVE, BUILDER MUST CONSULT A QUALIFIED PROFESSIONAL ENGINEER CONCERNING STRUCTURAL ADEQUACY, MEMBERS AND CONNECTIONS DESIGNED IN ACCORDANCE WITH AISC APPENDIX K4, FATIGUE LOADING CONDITIONS.

CRANE DATA

NOTES

- 1) CONTRACTOR TO VERIFY ALL CRANE CLEARANCES, DIMENSIONS, AND LOADINGS SHOWN.
- 2) VERTICAL AND LATERAL DEFLECTIONS OF CRANE BEAMS AND SUPPORT FRAMES SHALL BE VP STANDARDS, UNLESS OTHERWISE SPECIFIED. (SEE CALCULATIONS.)
- 3) CRANE OPERATIONS MAY CAUSE VIBRATIONS IN ROD BRACING AND OTHER BUILDING COMPONENTS. OTHERS TO PROVIDE AND INSTALL CLAMPS OR TIES AS REQUIRED TO MINIMIZE VIBRATION NOISE.
- 4) CRANE BRACKET ELEVATIONS MAY VARY SLIGHTLY DUE TO FABRICATION TOLERANCES. SHIMMING OF BEAMS OR LEVELING AND GROUTING OF COLUMN BASES MAY BE REQUIRED BY THE ERECTOR.
- 5) NBVP INDICATES "NOT BY VP BUILDINGS"
- 6) ALL BOLTED CONNECTIONS REQUIRE BOLTS TO BE FULLY PRE-TENSIONED.
- 7) DO NOT WELD TO CRANE RUNWAY BEAMS OR SUPPORT BRACKETS OTHER THAN WELDS SPECIFIED IN THESE DRAWINGS WITHOUT THE ADVANCE WRITTEN CONSENT OF VP OR THE RUNWAY BEAM DESIGN ENGINEER.
- 8) CRANE RUNWAY SYSTEMS ARE SUBJECT TO FATIGUE RELATED PROBLEMS. THEREFORE, ANY RUNWAY COMPONENTS OR DETAILS SUPPLIED NBVP MUST BE DEVELOPED BY A PROFESSIONAL ENGINEER COMPETENT IN THE DESIGN OF SUCH SYSTEMS.
- 9) CRANE RAIL ATTACHMENTS MUST PERFORM SEVERAL IMPORTANT FUNCTIONS, INCLUDING:
  - TRANSFER OF LATERAL CRANE LOADS FROM THE TOP OF THE RAIL TO THE RUNWAY BEAM
  - ALLOW THE RAIL TO "FLOAT" LONGITUDINALLY RELATIVE TO THE CRANE RUNWAY BEAM
  - ALLOW FOR ADJUSTMENT/ALIGNMENT OF THE RAIL
  - HOLD THE RAIL IN PLACE LATERALLY
 THEREFORE, SELECTION OF THE APPROPRIATE METHOD FOR CRANE RAIL ATTACHMENT MUST BE DONE BY A PROFESSIONAL ENGINEER COMPETENT IN THIS AREA OF DESIGN. THE CRANE RAILS MUST BE INSTALLED TO ALIGN WITH THE WEB OF THE RUNWAY BEAMS WITHIN THE TOLERANCE SHOWN IN THE DETAILS.
- 10) THE DESIGN AND ATTACHMENT DETAILS FOR THE CRANE END STOPS MUST BE DEVELOPED BY INDIVIDUAL(S) QUALIFIED TO DO SO. COORDINATION WITH THE CRANE MANUFACTURER IS STRONGLY RECOMMENDED.
- 11) THE STIFFENERS SHOWN ARE PROVIDED ONLY WHEN THE CRANE BRACKET IS ALSO PROVIDED BY VP. HOWEVER, THESE STIFFENERS ARE ALWAYS REQUIRED. THEREFORE, IN CASES WHERE THE BRACKET IS NBVP, THE STIFFENER WIDTH, LENGTH, THICKNESS, FIELD WELDING REQUIREMENTS, ETC MUST BE DETERMINED BY A LICENSED PROFESSIONAL ENGINEER COMPETENT IN THE AREA OF BRIDGE CRANE DESIGN IN STEEL BUILDINGS.
- 12) THE CRANE RUNWAY TIE-BACKS ARE ONLY PROVIDED WHEN THE CRANE RUNWAY BEAMS ARE BY VP. RUNWAY TIE-BACKS ARE ALWAYS REQUIRED. IMPROPER DESIGN AND DETAILING OF TIE-BACKS CAN CAUSE FATIGUE RELATED PROBLEMS AND THEREFORE SHOULD BE PROVIDED BY A LICENSED PROFESSIONAL ENGINEER WHO IS COMPETENT IN THE AREA OF BRIDGE CRANE RUNWAY SYSTEM DESIGN. THE BEARING STIFFENER SHOWN WILL BE PROVIDED AT THE ELEVATION SHOWN ONLY WHEN THE RUNWAY BEAM IS BY VP.
- 13) PLEASE FURNISH HOLE SIZE IF RUNWAY BEAM IS NBVP. DO NOT FIELD WELD THIS CONNECTION. BOLTS ARE NOT PROVIDED UNLESS BEAM AND BRACKET ARE BY VP.
- 14) THE CYCLIC NATURE OF BRIDGE CRANE EFFECTS WILL TEND TO CAUSE GRADUAL LOOSENING AND/OR MISALIGNMENT OF SOME BUILDING COMPONENTS. PERIODIC INSPECTION OF CONNECTIONS AND ALIGNMENT WILL BE REQUIRED.



LPT 9/3

VP Ref: Shape Name = motion industries, Wall = 2

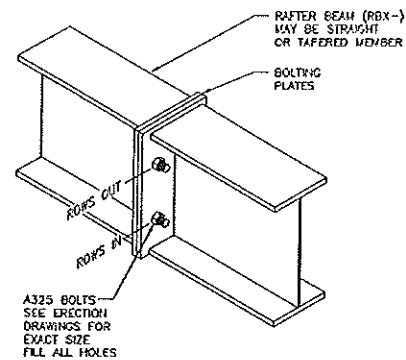
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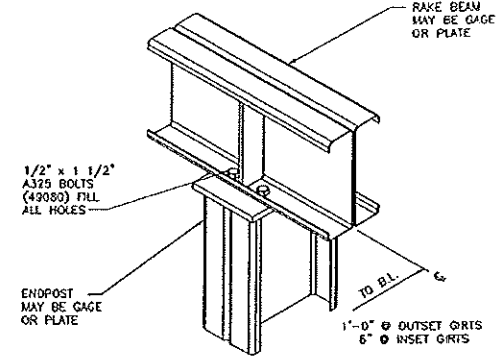
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CUSTOMER	Motion Industries
LOCATION	Portland, Maine
PROJECT	Motion Industries
BUILDER'S POF	
JOB #	WI0400750-01
DATE	7/21/04
DRAWN/CHECK	MAH
PAGE	15





**RAFTER BEAM CONNECTION**  
RAKE BEAM OR FULL FRAME  
RFB0102 R 02/21/2004

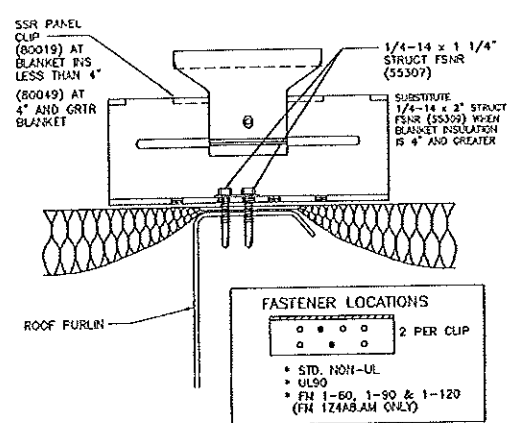
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**RAKE BEAM CONNECTION**  
TO ENDPST  
RFB0102 R 02/21/23

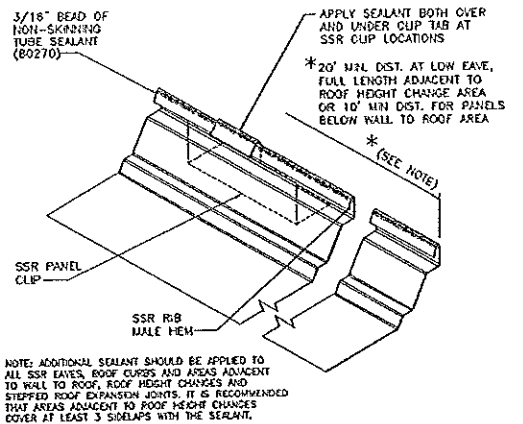
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1. DETAILS SHOWN ON THIS PAGE SUPERCEDE SIMILAR DETAILS IN THE "SSR ERECTION GUIDE". REFER TO THE "SSR ERECTION GUIDE" AND "MASTER REFERENCE DRAWINGS" FOR OTHER DETAILS, INSTALLATION PROCEDURES, AND ACCESSORIES NOT DESCRIBED IN THESE DETAILS.
2. FIELD PAINT STAINLESS STEEL ROOF FASTENER HEADS USED AT WALL LOCATIONS WITH WALL TOUCH UP PAINT.
3. ALL SURFACES MUST BE FREE OF DIRT AND OIL AT MASTIC AND SEALANT LOCATIONS.



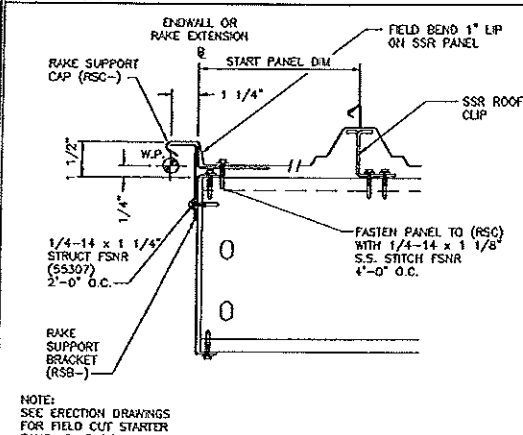
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BLANKET INSULATION ON PURLINS  
RFB0110 R 04/21/2000

RC01A1



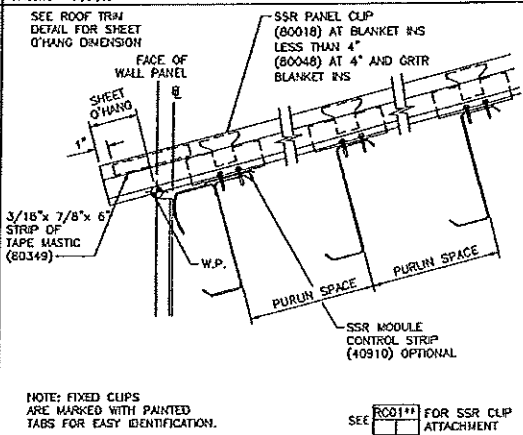
**SSR PANEL SIDELAP**  
ADDITIONAL WEATHERSEAL AT ICE DAMMING COND.  
RFB0101 R 03/21/23

RC03A2



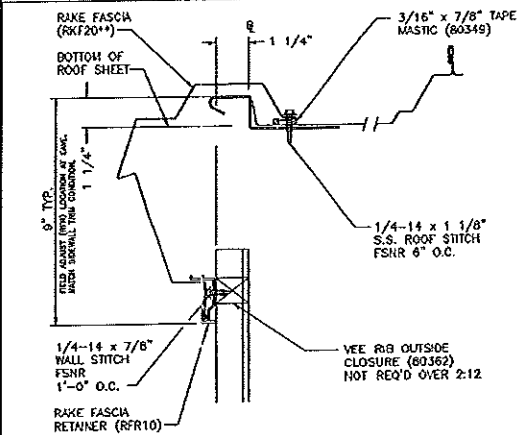
**SSR STARTING RAKE**  
PANEL RIB OR VEE RIB WALL  
RFB0102 R 02/21/23

RC10A1



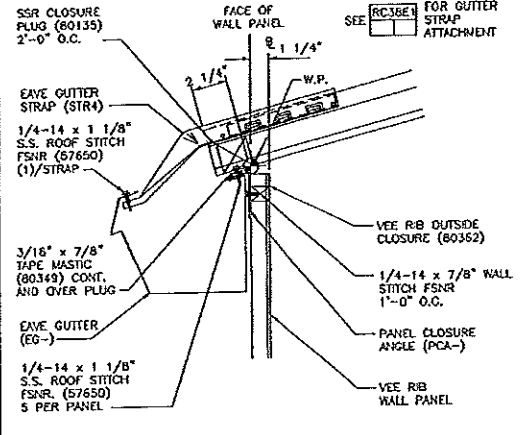
**SSR ROOF AT FIXED LOW EAVE**  
BLANKET INSULATION  
RFB0102 R 02/21/23

RC17A1



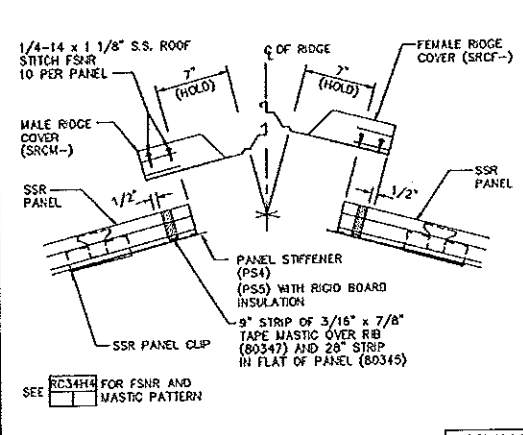
**SSR RAKE TRIM**  
VEE RIB WALL  
RFB0102 R 02/21/2004

RC30A2



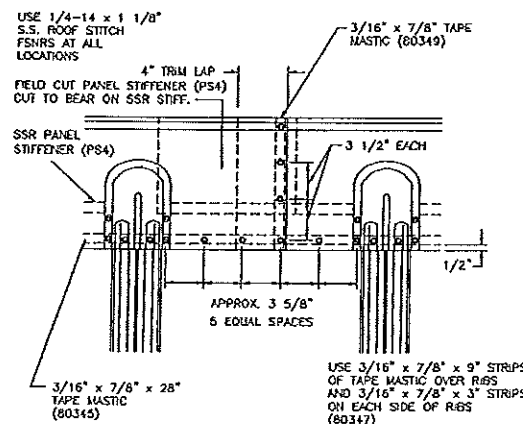
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VEE RIB WALL  
RFB0102 R 02/21/2004

RC32A2



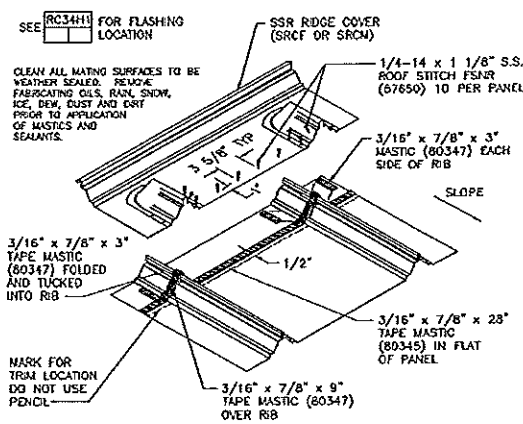
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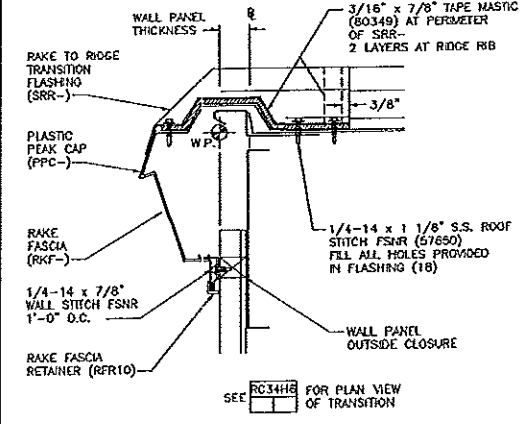
**SSR SEAM CAP AT HIGH RIB**  
SSR AT RIDGE PANEL SPLICE  
RFB0102 R 02/21/2004

RC34H3



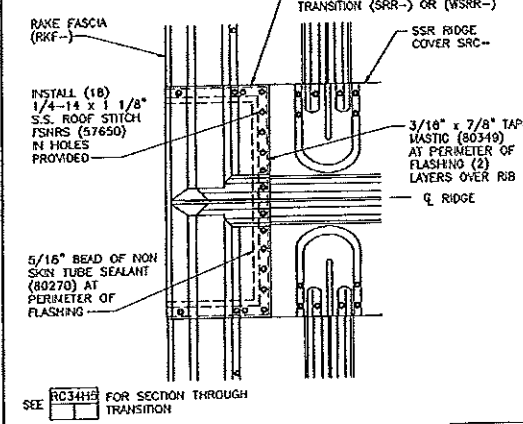
**SSR RIDGE FLASHING**  
FASTENER AND MASTIC PATTERN  
RFB0102 R 02/21/2004

RC34H4



**SSR RIDGE TO RAKE TRANSITION**  
ALL WALL PANELS  
RFB0102 R 02/21/2004

RC34H5



**SSR RIDGE TO RAKE TRANSITION**  
PLAN VIEW  
RFB0102 R 02/21/2004

RC34H6

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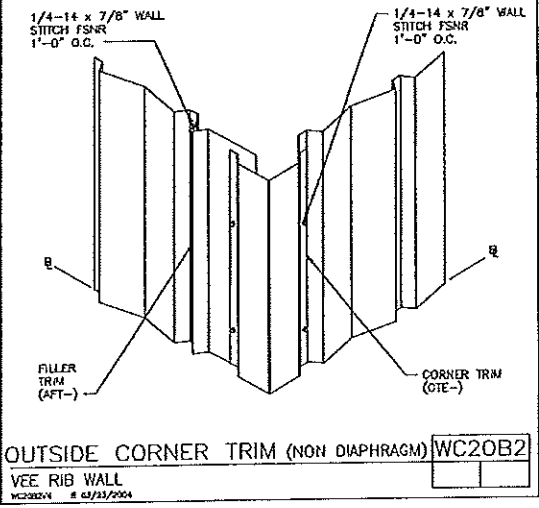
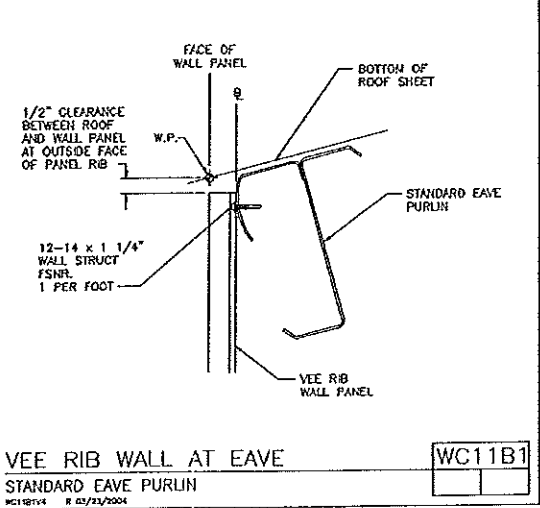
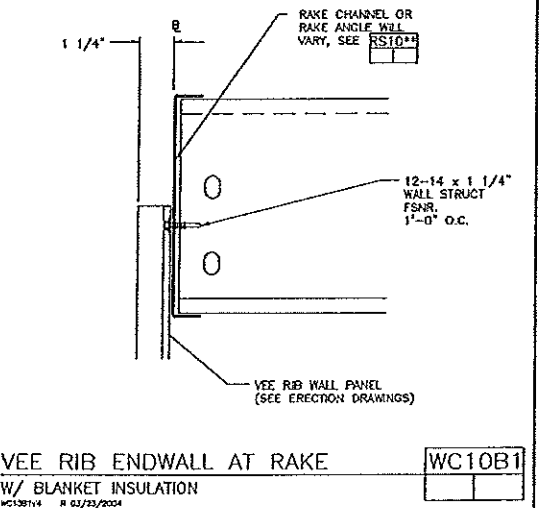
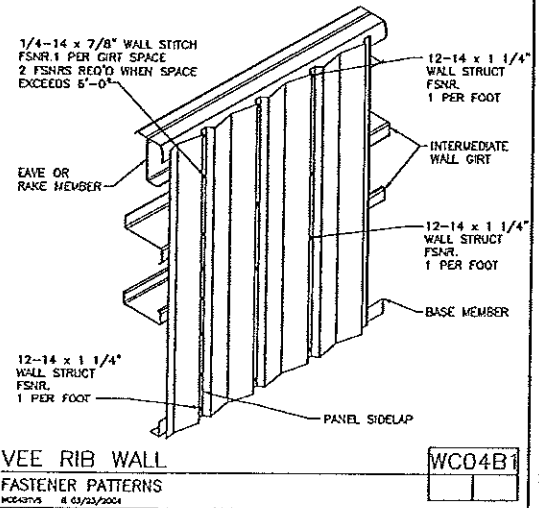
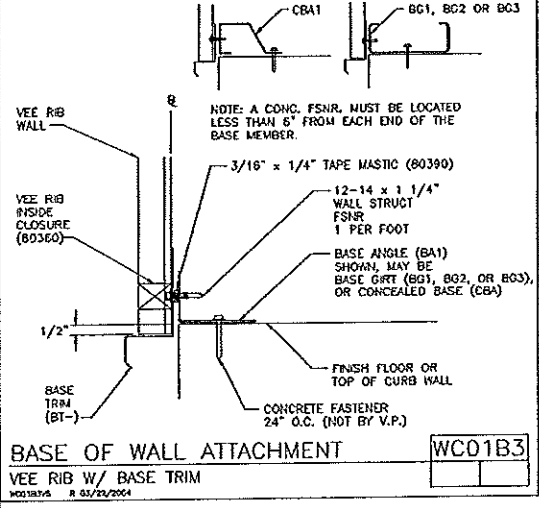
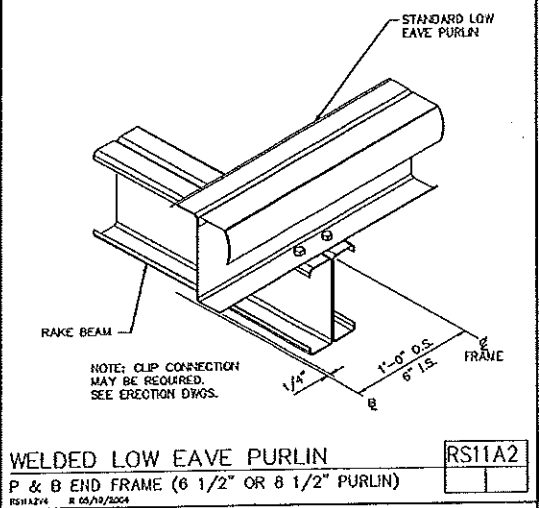
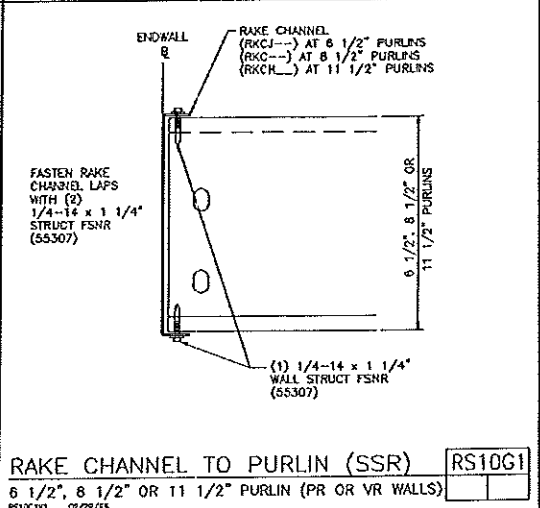
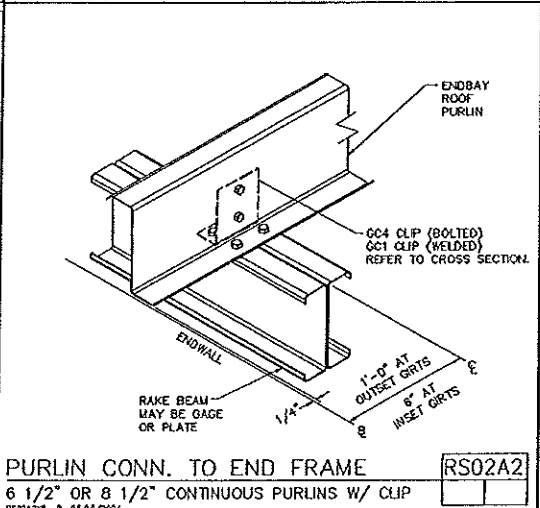
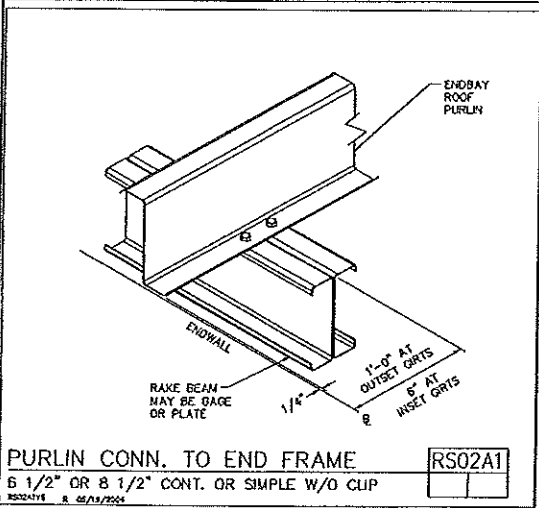
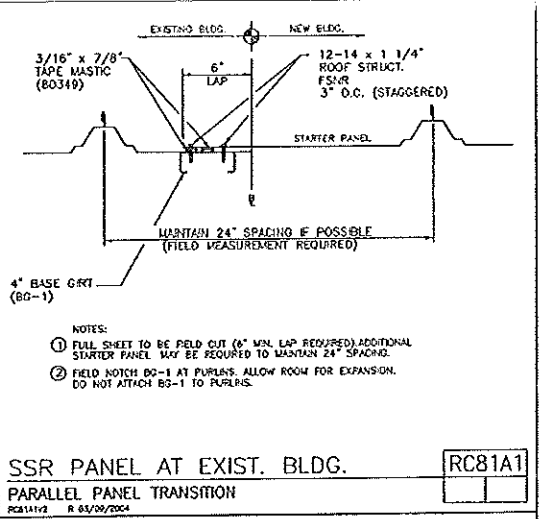
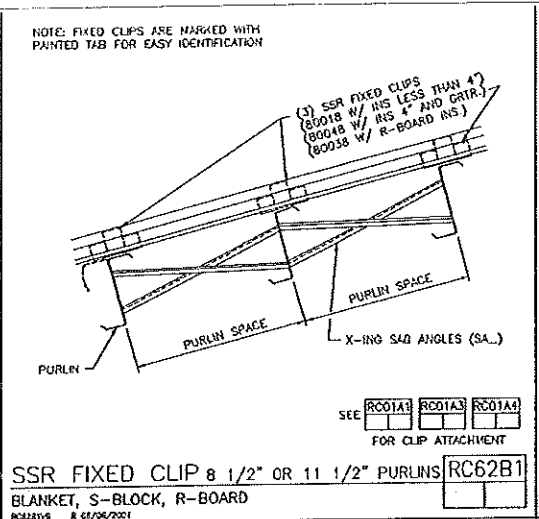
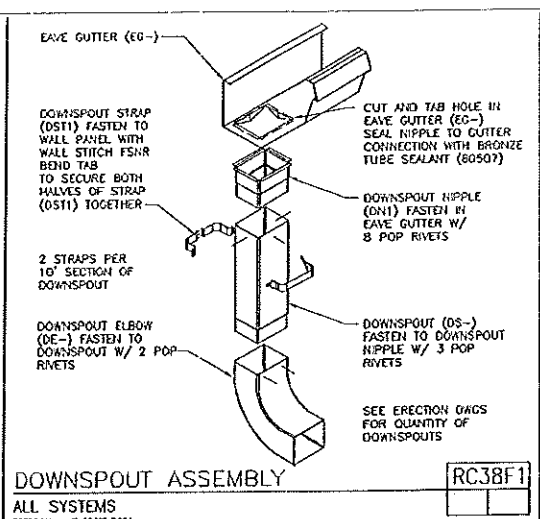
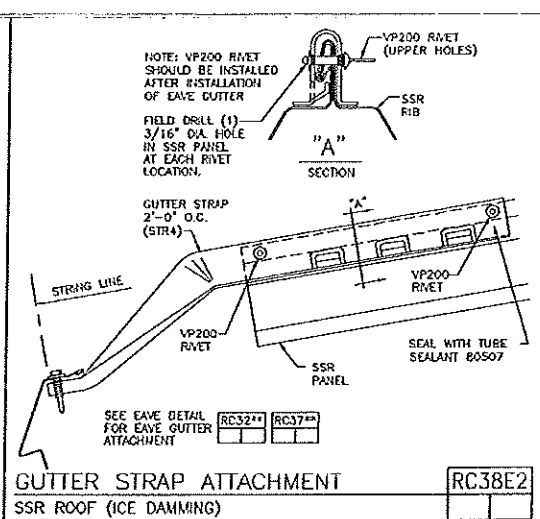
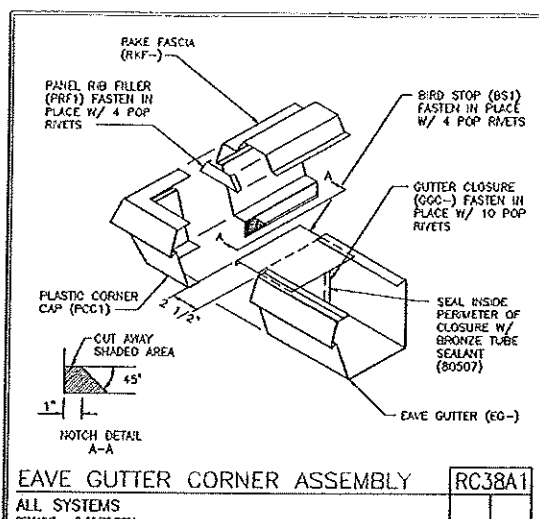
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REV	DATE	BY	DESCRIPTION

CUSTOMER INFORMATION	
BUILDER	PATCO CONSTRUCTION
CUSTOMER	Motion Industries
LOCATION	Portland, Maine
PROJECT	Motion Industries
BUILDERS PO#	

VP BUILDINGS MEMPHIS	VP VERSION: 5.0b
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JOB#	W0400750-01
DATE	9/2/04
DRAWING CHECK	AMZ NC
PAGE	17



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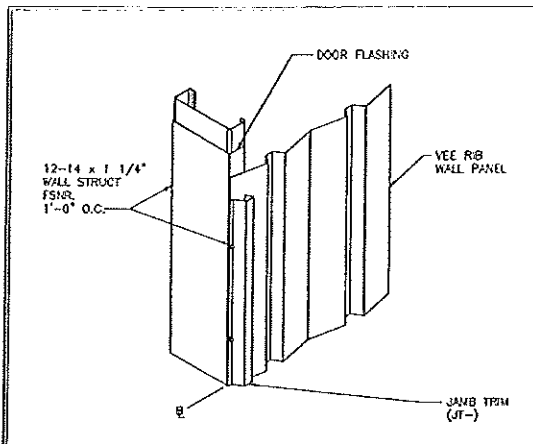
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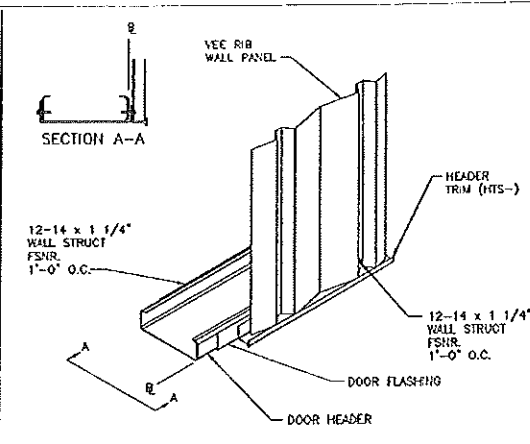
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CUSTOMER	Motion Industries
LOCATION	Portland, Maine
PROJECT	Motion Industries
BUILDER'S P.O.	

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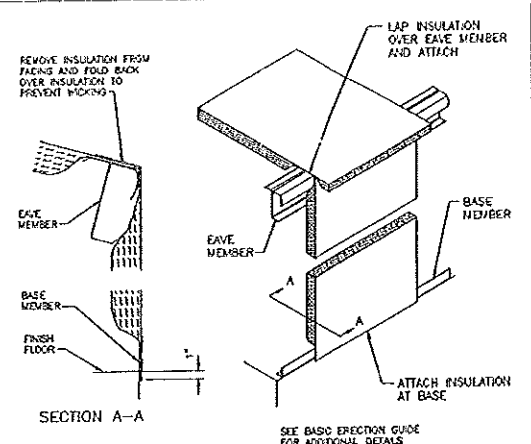
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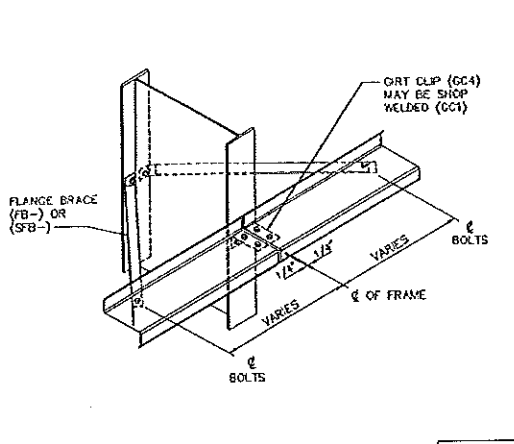
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VEE RIB WALL  
WC24B1 R 05/21/2004



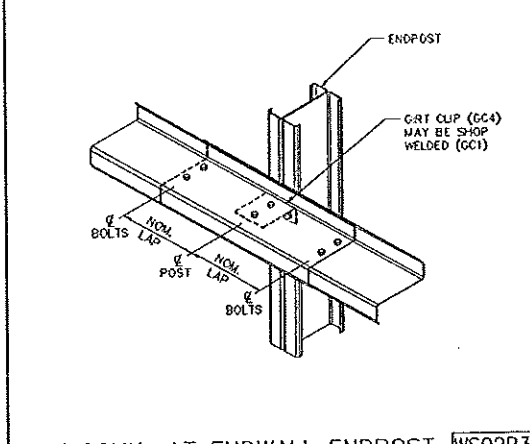
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OVERHEAD DOOR (VEE RIB WALL)  
WC24B2 R 05/21/2004



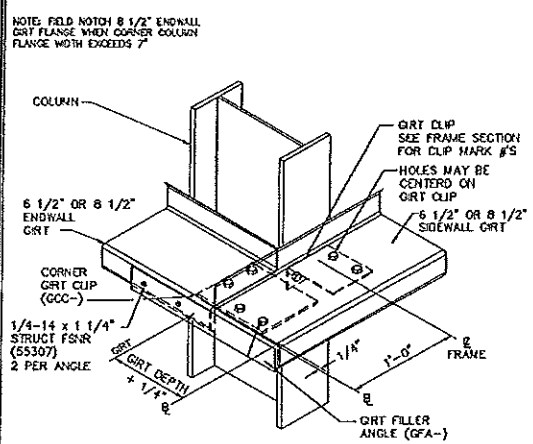
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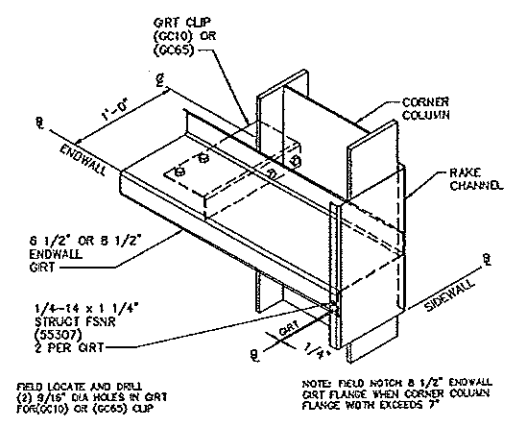
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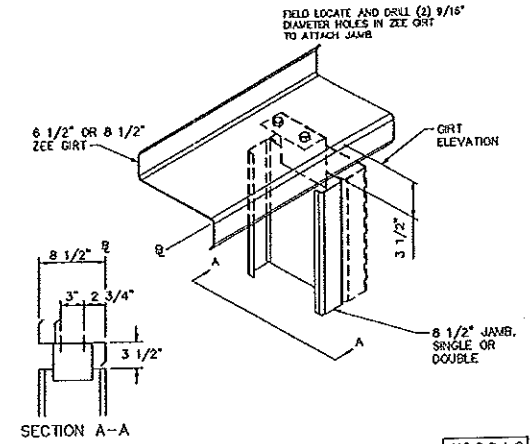
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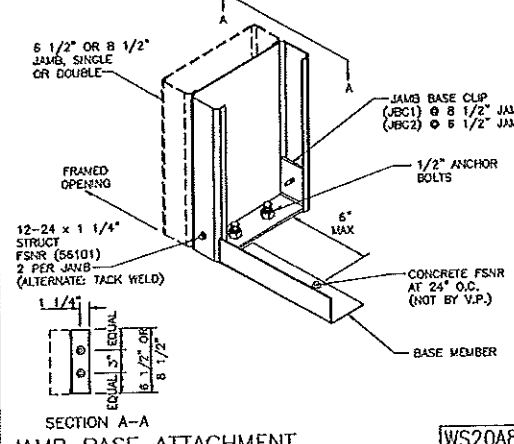
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ANY OUTSET GIRT AT EW, ANY OUTSET GIRT AT SW  
WS12D2 R 05/21/2004



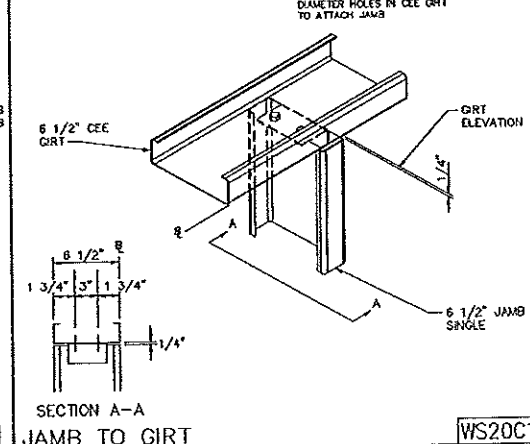
**GIRT CONN. AT CORNER COLUMN** WS12D5  
ANY OUTSET GIRT AT EW, OPEN SW  
WS12D5 R 05/21/2004



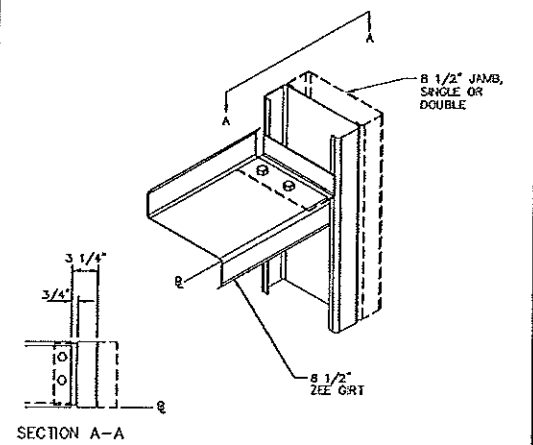
**JAMB TO GIRT** WS20A2  
8 1/2\"/>



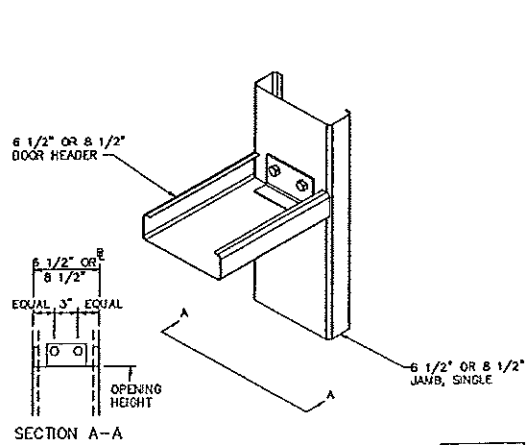
**JAMB BASE ATTACHMENT** WS20A8  
6 1/2\"/>



**JAMB TO GIRT** WS20C1  
6 1/2\"/>



**GIRT TO JAMB** WS20D2  
8 1/2\"/>



**HEADER TO JAMB** WS20D9  
ANY HEADER, ANY SINGLE JAMB  
WS20D9 R 05/21/2004

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REV	DATE	BY	DESCRIPTION
NTS			
9/3/2004		9:49:41	

CUSTOM SED'S	
BUILDER	PATCO CONSTRUCTION
CUSTOMER	Motion Industries
LOCATION	Portland, Maine
PROJECT	Motion Industries
BUILDER'S PO#	
FILENAME	Copy of W10400750-010E1.vpo

	JOB # W10400750-01
	DATE 9/2/04
DRAWN/CHECK ANZ	NC
VP VERSION 5.0b	PAGE 19

LPS