

SUN BUILDING SYSTEMS APPROVAL SHEET

BUILDER: [REDACTED]
 CUSTOMER: [REDACTED]
 LOCATION: GUAM. USA

PURCHASER RESPONSIBILITIES

1. IT IS THE RESPONSIBILITY OF THE PURCHASER TO INSURE THAT ALL PROJECT PLANS, SPECIFICATIONS, AND APPLIED DESIGN LOADS, FULLY MEET THE PROPOSED INTENT AS WELL AS COMPLY WITH ALL APPLICABLE REQUIREMENTS OF ANY GOVERNING AUTHORITIES. AND TO OBTAIN THE APPROPRIATE APPROVALS AND/OR PERMITS AS MAY BE REQUIRED FROM CITY, COUNTY, STATE, OR FEDERAL AGENCIES.
2. IT IS THE RESPONSIBILITY OF THE PURCHASER TO COMPLETELY UNDERSTAND WHAT SUN BUILDING SYSTEMS IS INCLUDING OR EXCLUDING FROM ARCHITECTURAL PLANS AND/OR SPECIFICATIONS.
3. IT IS THE RESPONSIBILITY OF THE PURCHASER FOR OVERALL PROJECT COORDINATION, INTERFACE, COMPATIBILITY, AND DESIGN CONCERNING ANY MATERIALS NOT FURNISHED BY SUN BUILDING SYSTEMS WITH THE SYSTEM TO BE FURNISHED BY SUN BUILDING SYSTEMS. THE SPECIFIC DESIGN CRITERIA CONCERNING THIS INTERFACE BETWEEN MATERIALS MUST BE FURNISHED BY THE PURCHASER PRIOR TO RELEASE FOR FABRICATION, OR THE DESIGN ASSUMPTIONS OF SUN BUILDING SYSTEMS WILL GOVERN.
4. IT IS THE RESPONSIBILITY OF THE PURCHASER TO VERIFY ALL DESIGN CRITERIA INCLUDING DEFLECTIONS AND NOTIFY SUN BUILDING SYSTEMS OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO RELEASE FOR FABRICATION.
5. THE PURCHASER IS RESPONSIBLE FOR THE ACCURATE SETTING OF ANCHOR BOLTS AND ERECTION OF STEEL IN ACCORDANCE WITH APPROVED DRAWINGS ONLY TEMPORARY SUPPORTS, GUYS, BRACES, FALSE WORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION WILL BE DETERMINED, FURNISHED AND INSTALLED BY THE PURCHASER.
6. THE PURCHASER IS RESPONSIBLE FOR ALL AFFECTS THAT MAY BE IMPOSED ON FACILITIES, LANDS, ROADS, BUILDINGS, ETC.. LOCATED WITHIN THE PROXIMITY OF THE NEW STRUCTURE, BY THE NEW STRUCTURE, AFFECTS INCLUDE BUT ARE NOT LIMITED TO SNOW SLIDING, OR DRIFTING, AND WIND LOADING, SHEDDING, OR VORTEX ACTION.
7. UNLESS SPECIFICALLY STATED OTHERWISE WITHIN THE SUN BUILDING SYSTEMS "PURCHASE OFFER", THE FOLLOWING SHALL GOVERN:
 - a) IN CASE OF DISCREPANCIES BETWEEN SUN BUILDING SYSTEMS STRUCTURAL STEEL DRAWINGS AND PLANS FOR OTHER TRADES, THE STRUCTURAL STEEL DRAWINGS SHALL GOVERN.
 - b) SUN BUILDING SYSTEMS QUALITY CRITERIA, STANDARD PRACTICE, METHODS AND TOLERANCES.
 - c) WHEN WINDOW AND/OR DOOR OPENINGS HAVE A COMBINED AREA GREATER THAN 15% OF GROSS WALL AREA ON ANY WALL, AND THE BUILDING IS DESIGNED AS "ENCLOSED", THEN THE WINDOWS AND OR DOORS REPRESENTING THE EXCESS ABOVE 15% SHALL BE DESIGNED AND DETAILED FOR APPLICABLE LOADING, BY THE PURCHASER.
 - d) THE SUPPLYING OF SEALED ENGINEERING DATA AND DRAWINGS FOR THE METAL BUILDING SYSTEM DOES NOT IMPLY OR CONSTITUTE AN AGREEMENT THAT SUN BUILDING SYSTEMS OR ITS DESIGN ENGINEER IS ACTING AS THE ENGINEER OF RECORD OR DESIGN PROFESSIONAL FOR A CONSTRUCTION PROJECT. THESE DOCUMENTS ARE SEALED ONLY AS TO THE COMPONENTS FURNISHED BY SUN BUILDING SYSTEMS.
 - e) ANY FIELD MODIFICATION OR ALTERATION, OR THE ATTACHMENT OF ANY EQUIPMENT OR COMPONENT TO SUN BUILDING SYSTEMS METAL BUILDING SYSTEMS, OR THE OMITTED INSTALLATION OF ANY SPECIFIED PARTS OR PIECES, WITHOUT THE EXPRESS WRITTEN APPROVAL OF SUN BUILDING SYSTEMS SHALL VOID ANY AND ALL WARRANTIES.

SUBMITTAL FOR APPROVAL

Sent on: APR 14 2005

In order to schedule this project in the most efficient manner, return these drawings marked in RED with your comments WITHIN TWO WEEKS from the above mentioned date WITH COLORS OF SHEETING AND TRIM

Any changes made AFTER approval of these drawings will delay the fabrication and delivery process.

Please supply colors for the sheeting and trim:

ROOF SHEETING: _____

WALL SHEETING: _____

LINER: _____

SOFFIT: _____

FACADE: _____

TRIM: _____

Trims will be supplied according to the color listed above. If any trims need to be a different color please make note here.

APPROVED WITHOUT CHANGES
No changes, proceed with fabrication

APPROVED AS NOTED (MAY INCLUDE CHANGE ORDER)
Fabrication may proceed on the basis of comments indicated.

By signing below, I (We) have reviewed all of the information contained in the approval drawings and have found it to be correct, accurate and consistent with my (our) intent and purpose. I (We) accept all of the purchaser responsibilities. I (We) further state the I (we) are authorized to provide acceptance on behalf of the listed company.

Reviewed by: _____

Signature: _____

Company: _____

Date: _____



2002 MORGAN ROAD
SUNNYSIDE, WA. 98944
(509) 839-7000
FAX (509) 837-8064

JOB NO.

F00929

FILE NAME:
APP1

ALL DRAWINGS ARE NOT
TO SCALE

SHEET OF
00 14

SUN BUILDING SYSTEMS

ENGINEERING CALCULATIONS

BUILDING CODE:
UBC-97

JOB NAME: [REDACTED]

JOB LOCATION: GUAM, USA

BUILDER: [REDACTED]

DATE:
04/08/05

DESIGNED BY:
MK

CHECKED BY:
RD

DESIGN PARAMETERS

FRAME TYPE: MB-1

ROOF SLOPE: 1:12

BAY SIZE: 5 @ 20'-6 3/8"

NOMINAL WIDTH: 90'-0"

EAVE HEIGHT: 20'-0"

DESIGN LOADS

BLDG DEAD LOAD: 7.5 psf

ROOF DEAD LOAD: 2.5 psf

LIVE LOAD: 20.0 psf

ROOF SNOW LOAD: 0.0 psf

I: 1.00

COLLATERAL LOAD: 5.0 psf

SEISMIC ZONE: 4

Z: 0.4

I: 1.00

WIND SPEED/EXPOS: 170 mph

I: 1.00

EXPOSURE: C

WIND LOAD: 85.47 psf

ENCLOSURE: ENCLOSED

CRANE CAPACITY: -- tons

CRANE TYPE: --

MEZZ LIVE LOAD: -- psf

MEZZ DEAD LOAD: -- psf

ENGINEER'S SEAL



EXPIRES 12/20/05

APR 14 2005

THIS SEAL IS INTENDED FOR CERTIFICATION OF THE STRUCTURAL DESIGN OF THE METAL BUILDING SYSTEM AND COMPONENTS AS PROVIDED BY SUN BUILDING SYSTEMS. DESIGN AND OVERVIEW OF ALL OTHER PORTIONS OF THE PROJECT ARE NOT WITHIN THE SCOPE OF SUN BUILDING SYSTEMS OR THIS SEAL.

SPECIAL LOADS

STANDARD ALLOWABLE DEFLECTIONS:

PURLINS: L/150

GIRTS: L/120

RIGID FRAME HORIZONTAL: H/60

RIGID FRAME VERTICAL: L/240

MATERIALS	ASTM DESIGNATIONS
HOT ROLLED MILL SHAPES	A992-04a, GR. 50 FY = 50 ksi MIN.
HOT ROLLED FLAT BAR	A529-04, GR. 50 FY = 50 ksi MIN.
STRUCTURAL STEEL PLATE	A572-04, GR. 50 FY = 50 ksi MIN.
COLD FORMED LIGHT GAUGE SHAPES, GALV. (G90)	A653-04a, HSLA GR. 50 FY = 55 ksi (TYPE-A)
ROOF & WALL SHEETING, GALV. (G90)	A653-04a, SS GR. 50 FY = 50 ksi (CLASS-1)
ROOF & WALL SHEETING, ZINC ALUME (AZ50)	A792-03, SS GR. 50 FY = 50 ksi (CLASS-1)
BOLTS	A325-04b, TYPE-1
STEEL PIPE	A53-04a, GR. B FY = 35 ksi MIN.
STRUCTURAL TUBE	A500-03a, GR. B FY = 46 ksi MIN.

GENERAL NOTES

- PRIMER
SHOP PRIMER IS A RUST INHIBITIVE PRIMER. THIS PAINT IS NOT INTENDED FOR LONG-TERM EXPOSURE TO THE ELEMENTS.
- A325 BOLT TIGHTENING REQUIREMENTS
ALL HIGH STRENGTH BOLTS ARE A325 UNLESS SPECIFICALLY NOTED OTHERWISE. BOLTED CONNECTIONS DESIGNATED AS "SP-X" (WHERE "X" IS A NUMBER) ARE TO BE INSTALLED AND TIGHTENED USING THE "TURN OF THE NUT" METHOD IN ACCORDANCE WITH SECTION 8 OF THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC) SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS (JUN 23, 2000 EDITION AVAILABLE AT [HTTP://WWW.BOLT-COUNCIL.ORG/](http://www.boltcouncil.org/)). ALL OTHER HIGH STRENGTH, BOLTED CONNECTIONS ARE TO BE INSTALLED AND TIGHTENED TO A "SNUG TIGHT" CONDITION PER THE SAME SECTION OF THE ABOVE-NAMED RCSC SPECIFICATION.
IT IS THE ERECTOR'S RESPONSIBILITY TO UTILIZE PROPER PROCEDURES AND TO ASSURE PROPER TIGHTNESS.
NOTE: FOR ALL BOLTED CONNECTIONS, THE DESIGN HAS ASSUMED THAT THREADS ARE INCLUDED IN THE SHEAR PLANE(S) UNLESS SPECIFICALLY NOTED OTHERWISE.

PANEL SYSTEMS

ROOF SYSTEM	COLOR	GAUGE	LINER SYSTEM	COLOR	GAUGE
WALL SYSTEM	COLOR	GAUGE	DECK SYSTEM	COLOR	GAUGE
TRIM SYSTEM	COLOR	GAUGE	FACADE SYSTEM	COLOR	GAUGE

IAS APPROVED FABRICATORS REPORT NO. FA-348
DCLU APPROVED FABRICATORS ID. NO. 7241
CANADIAN WELDING BUREAU CERTIFIED. NO. Y53

SCHEDULING FOR SHOP FABRICATION IS
BY APPROVAL OF THESE DRAWINGS

IT IS THE RESPONSIBILITY OF THE PURCHASER TO VERIFY ALL DESIGN CRITERIA AND NOTIFY SUN BUILDINGS SYSTEMS OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO RELEASE FOR FABRICATION.

DATE	NO.	REVISIONS	BY	CHK.	DATE	NO.	REVISIONS	BY	CHK.
04/08/05	00	ISSUE FOR APPROVAL	KG	KG					

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JOB NO.

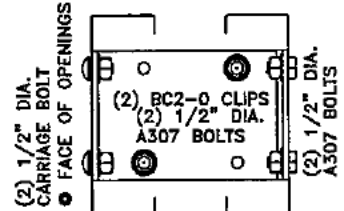
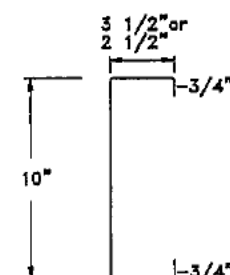
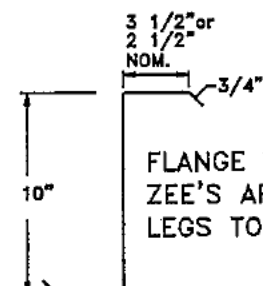
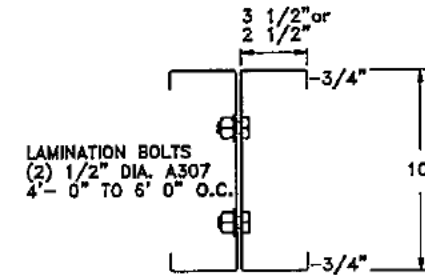
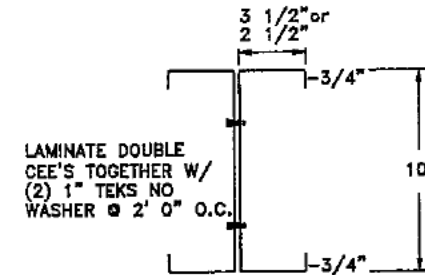
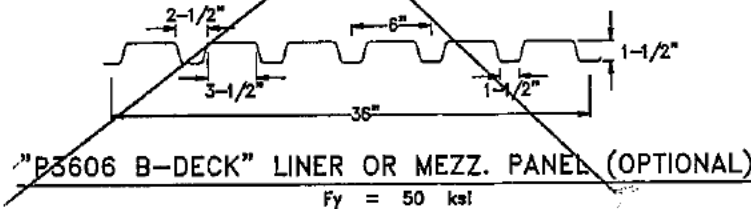
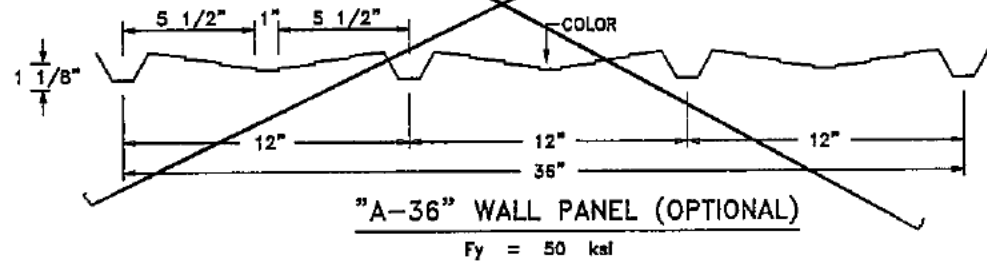
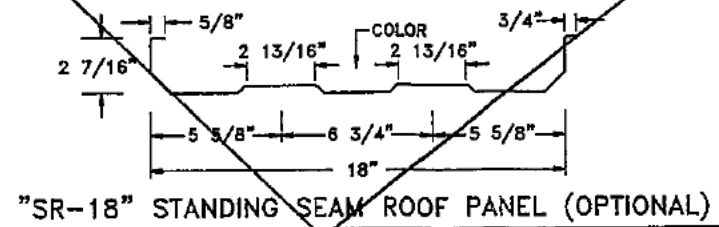
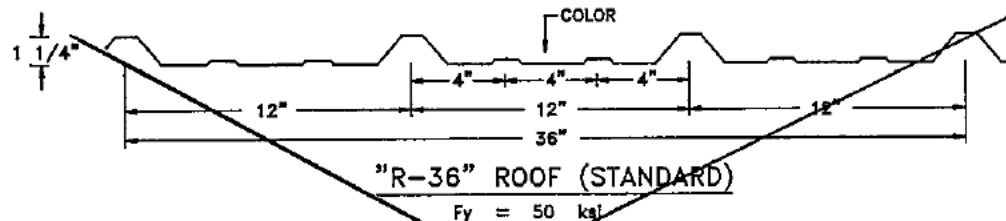
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FILE NAME:
COV1

SHEET OF
01 14

See separate roof & wall panel submittal

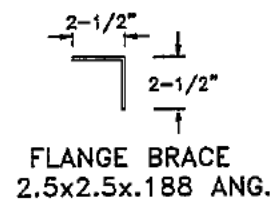
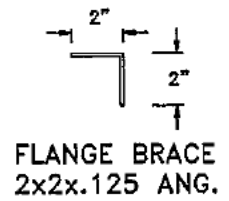
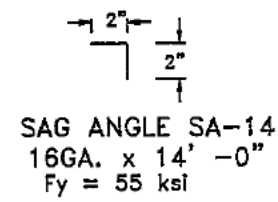
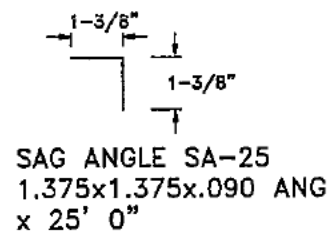
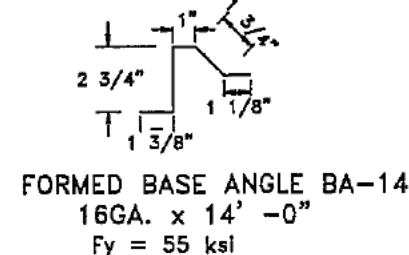
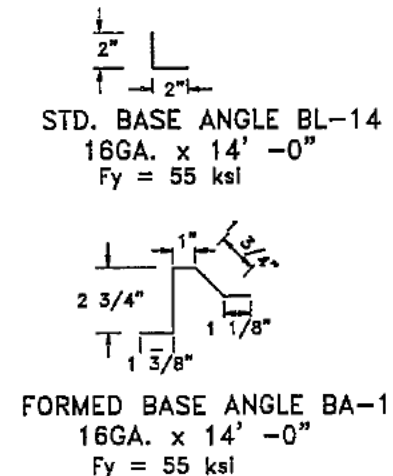
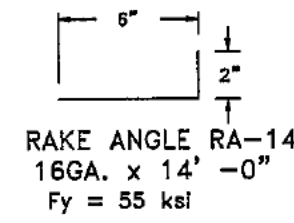
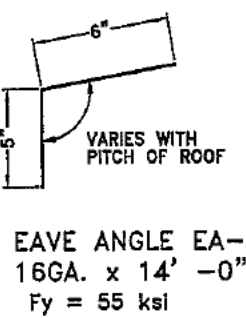
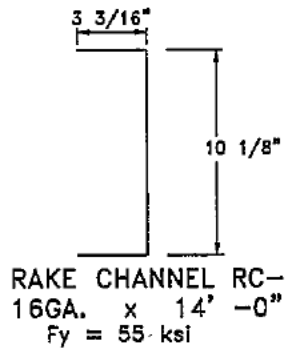
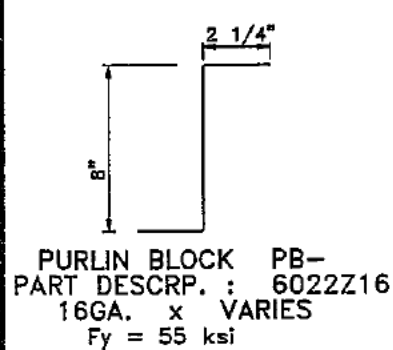


SINGLE "ZEE" SHAPE
PART DESCRIPTION : 1025Z12
PART DESCRIPTION : 1035Z12
PURLINS - P & E
GIRTS - G
Fy = 55 ksi

SINGLE "CEE" SHAPE
PART DESCRIPTION : 1025C12
PART DESCRIPTION : 1035C12
JAMB - DJ HEADER - DH
PURLINS - P & E GIRT - G
BASE GIRT - BG
Fy = 55 ksi

DOUBLE "CEE" SHAPE
PART DESCRIPTION : 1025CC12
PART DESCRIPTION : 1035CC12
JAMB - DJ HEADER - DH
PURLINS - P & E
GIRTS - G
Fy = 55 ksi

DOUBLE "CEE" SHAPE
PART DESCRIPTION : 1025DC12
PART DESCRIPTION : 1035DC12
JAMB - DJ HEADER - DH
PURLINS - P & E
GIRTS - G
Fy = 55 ksi



PART MARK & ABBREVIATION GLOSSARY

THE FOLLOWING ABBREVIATIONS ARE USED AS PREFIXES FOR PART MARKING IN THE FOLLOWING CONVENTION:
EX. RF1-4 OR G-1

- RF - FRAME MEMBER
- EC - ENDWALL COLUMN
- ER - ENDWALL RAFTER
- FLB - FLOOR BEAM
- PRT - PORTAL RAFTER
- PC - PORTAL COLUMN
- E - EAVE STRUT
- P - PURLIN
- G - GIRT
- DJ - DOOR JAMB
- DH - DOOR HEADER
- AB - ANGLE BRACE
- RB - ROD BRACE
- CB - CABLE BRACE
- FB - FLANGE BRACE
- WB - WIND BRACE
- PB - PURLIN BLOCK
- SC - SOLDIER COLUMN

BUILT-UP FRAMING

PART DESCRIPTION : EXAMPLE W08531
WEB DEPTH (INCHES) 8 5 3 1 WEB THK (1=10 GA)
FLANGE WIDTH (INCHES) 8 5 3 1 FLANGE THK (1/16" INCR)

SECONDARY FRAMING

PART DESCRIPTION : EXAMPLE 1025DC12
WEB DEPTH 10 25 DC 12 GAGE OF MATERIAL
FLANGE WIDTH 10 25 DC 12 SHAPE OF SECONDARY MEMBER
Z - SINGLE "ZEE" SHAPED MEMBER
CZ - SINGLE "ZEE" & "CEE" SHAPED MEMBER LAMINATED TOGETHER
C - SINGLE "CEE" SHAPED MEMBER
DC - DOUBLE "CEE" SHAPED MEMBER LAMINATED BACK TO BACK
CC - DOUBLE "CEE" SHAPED MEMBER LAMINATED W/ BC2-0 CLIPS
CJ - SINGLE "CEE" SHAPED DOOR JAMB

PURLIN & GIRT LAP INDICATOR

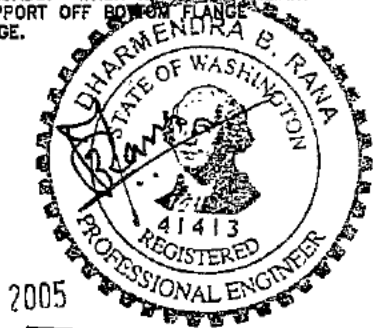
OVERLAPS FOR CONTINUOUS PURLIN & GIRTS ARE CODED AS FOLLOWS:
#1 LAP = 1'-2 3/4" | 1'-2 3/4" #2 LAP = 2'-5 3/4" | 2'-5 3/4"

DETAIL REFERENCING OR CALL-OUTS

H4 DETAIL CALL OUT (WHEN NO PAGE # IS GIVEN REFER TO STANDARD DETAILS.)

GENERAL CONSTRUCTION NOTES:

1.) DO NOT PLACE AUXILIARY LOADS ON PURLINS OR GIRTS UNLESS THEY ARE DESIGNED FOR THESE LOADS. WHEN HANGING AUXILIARY LOADS FOR PURLINS, DO NOT SUPPORT OFF BOTTOM FLANGE OR DRILL HOLES IN BOTTOM FLANGE.



APR 14 2005

EXPIRES 12/20/05

DATE	NO.	REVISIONS	BY	CHK/
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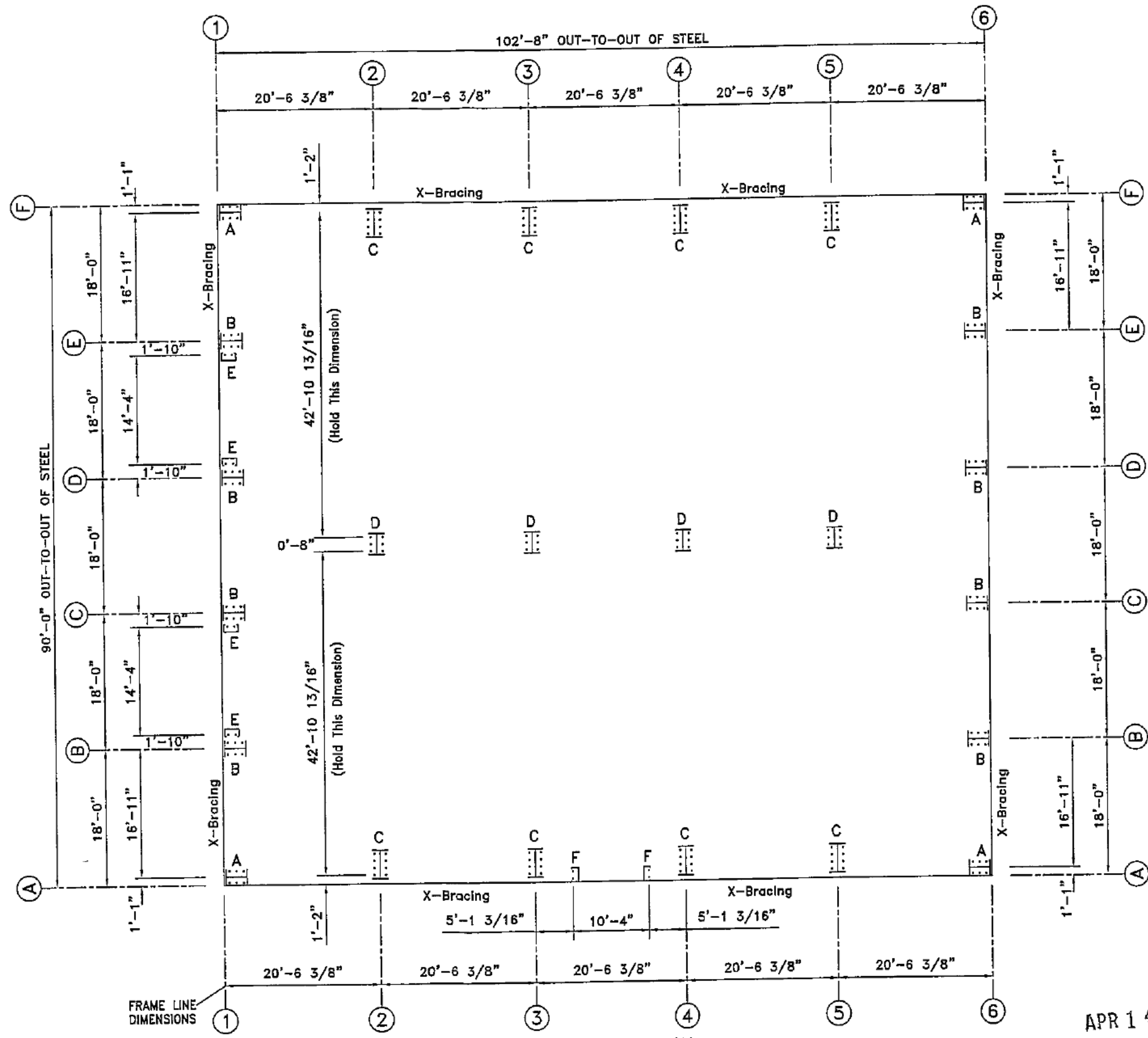
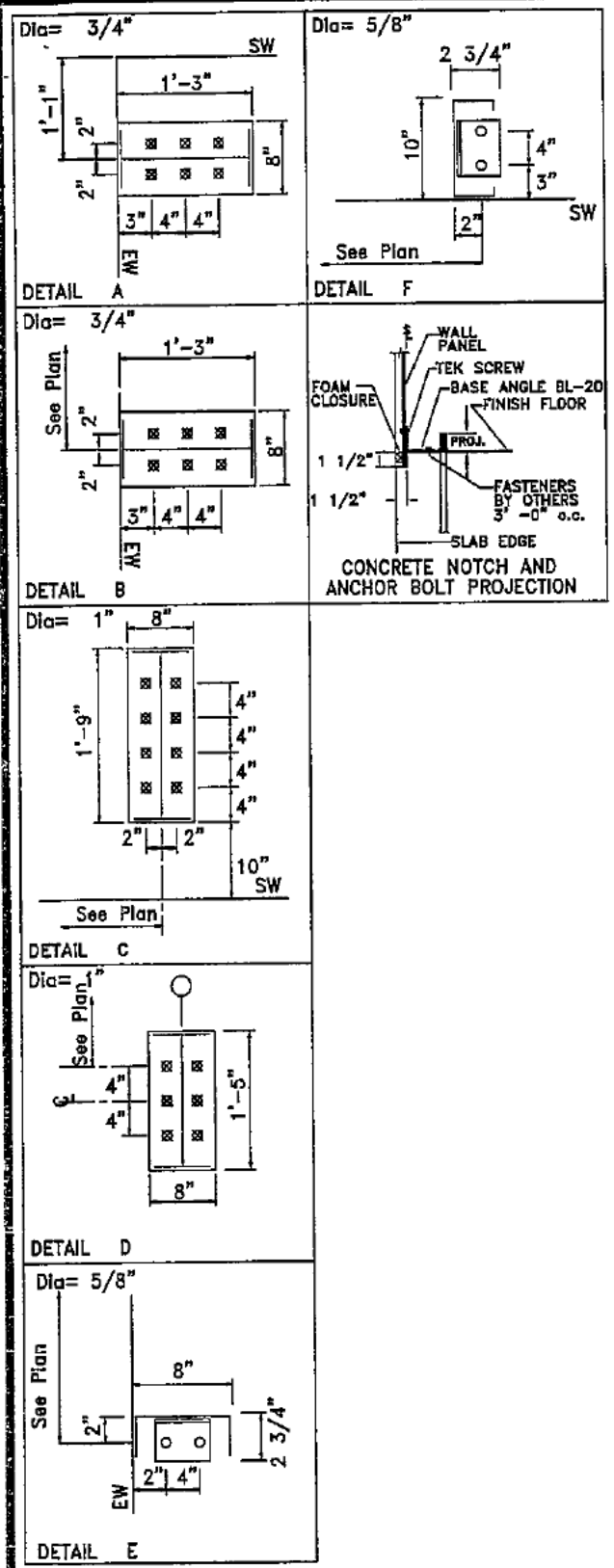
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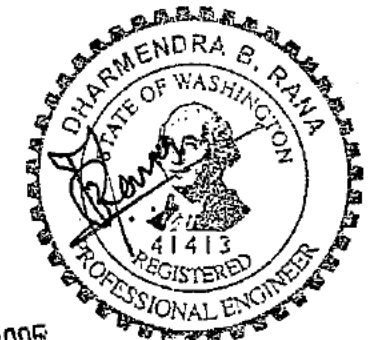
DRAWING TITLE:
10" COMPONENT SHEET DETAIL

THIS DRAWING IS NOT TO SCALE

OWNER:	FILE NAME: CSD1
LOCATION: GUAM, USA	JOB NUMBER: F00929
BUILDER:	SHEET OF: 02 14



ANCHOR BOLT PLAN
 NOTE: All Base Plates @ 100'-0" (U.N.)



APR 14 2005
 EXPIRES 12/20/05

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DRAWING TITLE:
ANCHOR BOLT PLAN

THIS DRAWING IS NOT TO SCALE

OWNER: [REDACTED]
 LOCATION: **GUAM, USA**
 BUILDER: [REDACTED]

FILE NAME	ABP1
JOB NUMBER	F00929
SHEET OF	03 14

NOTES FOR REACTIONS

- All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
- Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
- Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
- Building reactions are based on the following building data:
 - Width (ft) = 90
 - Length (ft) = 102.66
 - BSW Eave Height (ft) = 20
 - BSW Roof Slope = 1.0:12
 - Peak Offset from BSW = 45
 - FSW Eave Height (ft) = 20
 - FSW Roof Slope = 1.0:12
- Calculations are based on the larger of live loads or snow loads listed below.
 - Building Code = UBC 97
 - Dead Load psf = 7.5
 - Collateral Load psf = 5
 - Live Load psf = 20
 - Snow Load (UBC,IBC,ASCE) psf = 0
 - Snow Load Ss (NBC) - psf = ---
 - Rain Load Sr (NBC) - psf = ---
 - Wind (UBC,IBC,ASCE) mph psf = 170 mph
 - (NBC) Wind 10 yr = 0
 - (NBC) Wind 30 yr = 0
 - Exposure = C
 - Enclosure = Closed
 - Seismic Zone = 4
 - Seismic Coeff Ca (UBC) = 0.440
 - Ss (IBC,ASCE) = ---
 - S1 (IBC,ASCE) = ---
 - Za (NBC) = ---
 - Zy (NBC) = ---
 - V (NBC) = ---
 - Importance - Seismic = 1.00
 - Importance - Wind = 1.00
 - Importance - Snow = 1.00
- Loading Combinations are:
 - DL+CL+LL
 - DL+CL+LL/2+WL2
 - DL+CL+LL/2+WR2
 - DL+WR1
 - DL+WL2
 - DL+WR2
 - DL+CL+LL/2+WL2+WS
 - DL+WP+LnWdl
 - DL+CL+LL+WR2/2+WS
 - DL+CL+LL/2+WR2+WS
 - DL+WR1+WS
 - DL+CL+LL+WL2/2+WS

ANCHOR BOLT SUMMARY

Qty	Loc	Dia (in)	Proj (in)
12	DJ	5/8"	2.50
72	EW	3/4"	2.75
88	RF	1"	3.00

ENDWALL COLUMN: REACTIONS, ANCHOR BOLTS, & BASE PLATES

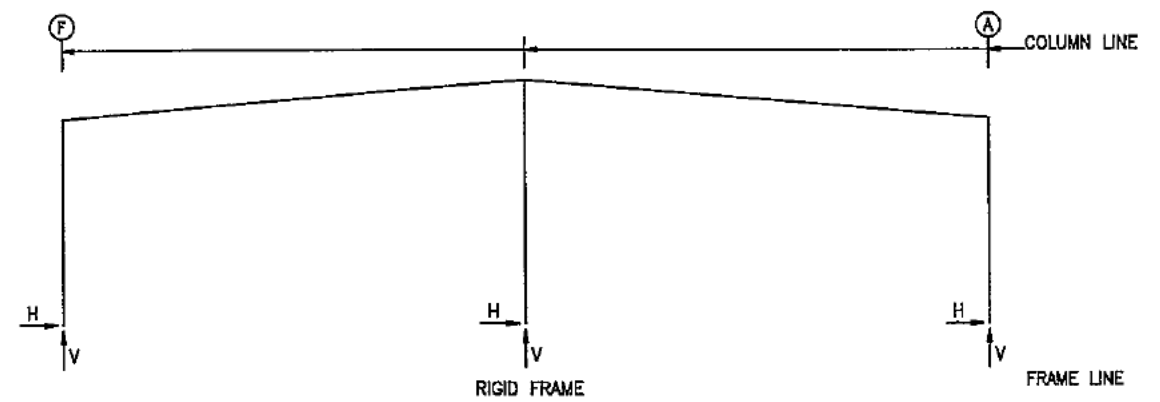
Frm Line	Col Line	Column Reactions (k)								Out-Of-Plane					Anc. Bolt No D(in)	Base Wid	Plate (in)			Grout (in)
		Dead Vert	Coll Vert	Live Vert	Wind-Left Horiz	Wind-Left Vert	Wind-Right Horiz	Wind-Right Vert	Wd P	Wd S	Horiz	Horiz	Len	Thk						
1	A	0.7	0.5	2.1	0.0	-6.2	5.8	-12.4	-6.7	6.7	6	0.750	8.000	15.00	0.625	0.0				
1	B	1.0	0.8	3.3	5.8	-16.0	0.0	-9.9	-13.5	13.5	6	0.750	8.000	15.00	0.625	0.0				
1	C	1.2	1.1	4.2	0.0	-12.4	0.0	-12.4	-14.8	14.8	6	0.750	8.000	15.00	0.625	0.0				
1	D	1.2	1.1	4.2	0.0	-12.4	0.0	-12.4	-14.8	14.8	6	0.750	8.000	15.00	0.625	0.0				
1	E	1.0	0.8	3.3	0.0	-9.9	5.8	-16.0	-13.5	13.5	6	0.750	8.000	15.00	0.625	0.0				
1	F	0.7	0.5	2.1	5.8	-12.4	0.0	-6.2	-6.7	6.7	6	0.750	8.000	15.00	0.625	0.0				
6	A	0.7	0.5	2.1	5.8	-12.4	0.0	-6.2	-6.7	6.7	6	0.750	8.000	15.00	0.625	0.0				
6	B	1.0	0.8	3.3	0.0	-9.9	5.8	-16.0	-13.5	13.5	6	0.750	8.000	15.00	0.625	0.0				
6	C	1.2	1.1	4.2	0.0	-12.4	0.0	-12.4	-14.8	14.8	6	0.750	8.000	15.00	0.625	0.0				
6	D	1.2	1.1	4.2	0.0	-12.4	0.0	-12.4	-14.8	14.8	6	0.750	8.000	15.00	0.625	0.0				
6	E	1.0	0.8	3.3	5.8	-16.0	0.0	-9.9	-13.5	13.5	6	0.750	8.000	15.00	0.625	0.0				
6	F	0.7	0.5	2.1	0.0	-6.2	5.8	-12.4	-6.7	6.7	6	0.750	8.000	15.00	0.625	0.0				

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column Reactions (k)								Anc. Bolt No D(in)	Base Wid	Plate (in)			Grout (in)
		Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Len	Thk						
1	F	7	6.7	-10.4	8	-6.7	-5.5	6	0.750	8.000	15.00	0.625	0.0		
1	E	9	6.7	3.4	7	6.7	-10.4	6	0.750	8.000	15.00	0.625	0.0		
1	D	10	13.5	-12.9	8	-13.5	-9.0	6	0.750	8.000	15.00	0.625	0.0		
1	C	11	14.8	-11.2	8	-14.8	-11.2	6	0.750	8.000	15.00	0.625	0.0		
1	B	11	14.8	-11.2	8	-14.8	-11.2	6	0.750	8.000	15.00	0.625	0.0		
1	A	10	6.7	-10.4	8	-6.7	-5.5	6	0.750	8.000	15.00	0.625	0.0		
6	A	7	6.7	-10.4	8	-6.7	-5.5	6	0.750	8.000	15.00	0.625	0.0		
6	B	10	13.5	-12.9	8	-13.5	-9.0	6	0.750	8.000	15.00	0.625	0.0		
6	C	11	14.8	-11.2	8	-14.8	-11.2	6	0.750	8.000	15.00	0.625	0.0		
6	D	11	14.8	-11.2	8	-14.8	-11.2	6	0.750	8.000	15.00	0.625	0.0		
6	E	7	13.5	-12.9	8	-13.5	-9.0	6	0.750	8.000	15.00	0.625	0.0		
6	F	10	6.7	-10.4	8	-6.7	-5.5	6	0.750	8.000	15.00	0.625	0.0		

BRACING REACTIONS, PANEL SHEAR

Wall Loc	Col Line	± Reactions (k)				Panel Shear (lb/ft)
		Wind Horiz	Wind Vert	Seismic Horiz	Seismic Vert	
L_EW	1	F	5.8	6.1	1.6	1.7
F_SW	A	2,3	27.3	24.1	6.3	5.6
R_EW	6	A	5.8	6.1	1.6	1.7
B_SW	F	5,4	27.3	24.1	6.3	5.6



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Id	Col Line	Column Reactions (k)								Anc. Bolt No D(in)	Base Wid	Plate (in)			Grout (in)
		Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Len	Thk						
1*	F	3	10.8	-12.1	5	-28.3	-29.2	8	1.000	8.000	21.00	0.625	0.0		
1*	A	6	28.2	-29.2	2	-10.8	-12.1	8	1.000	8.000	21.00	0.625	0.0		
1* @ 45.0	4	1	8.6	-53.8	2	-8.6	-39.4	6	1.000	8.000	17.00	0.625	0.0		

1* Frame lines: 2 3 4 5

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Id	Column Line	Dead		Collateral		Live		Wind_L1		Wind_R1		Wind_L2	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
1*	F	0.57	2.30	0.69	2.23	2.75	8.90	-28.82	-31.53	8.13	-21.06	-28.82	-31.53
1*	A	-0.57	2.30	-0.69	2.23	-2.75	8.90	-8.14	-21.07	28.81	-31.52	-8.14	-21.07
1* @ 45.0	0.00	4.48	0.00	4.80	0.00	19.15	-8.55	-57.69	8.58	-57.71	-8.55	-57.69	

Frame Id	Column Line	Wind_R2		Seismic_L		Seismic_R		LnWind_L		LnWind_R	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
1*	F	8.13	-21.06	-1.99	-1.22	1.99	1.22	1.53	-28.87	1.53	-28.87
1*	A	28.81	-31.52	-1.99	1.22	1.99	-1.22	-1.54	-28.87	-1.54	-28.87
1* @ 45.0	8.58	-57.71	-1.92	0.00	1.92	0.00	0.01	-52.55	0.01	-52.55	

1* Frame lines: 2 3 4 5



APR 14 2005
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DRAWING TITLE:
ANCHOR BOLT REACTIONS

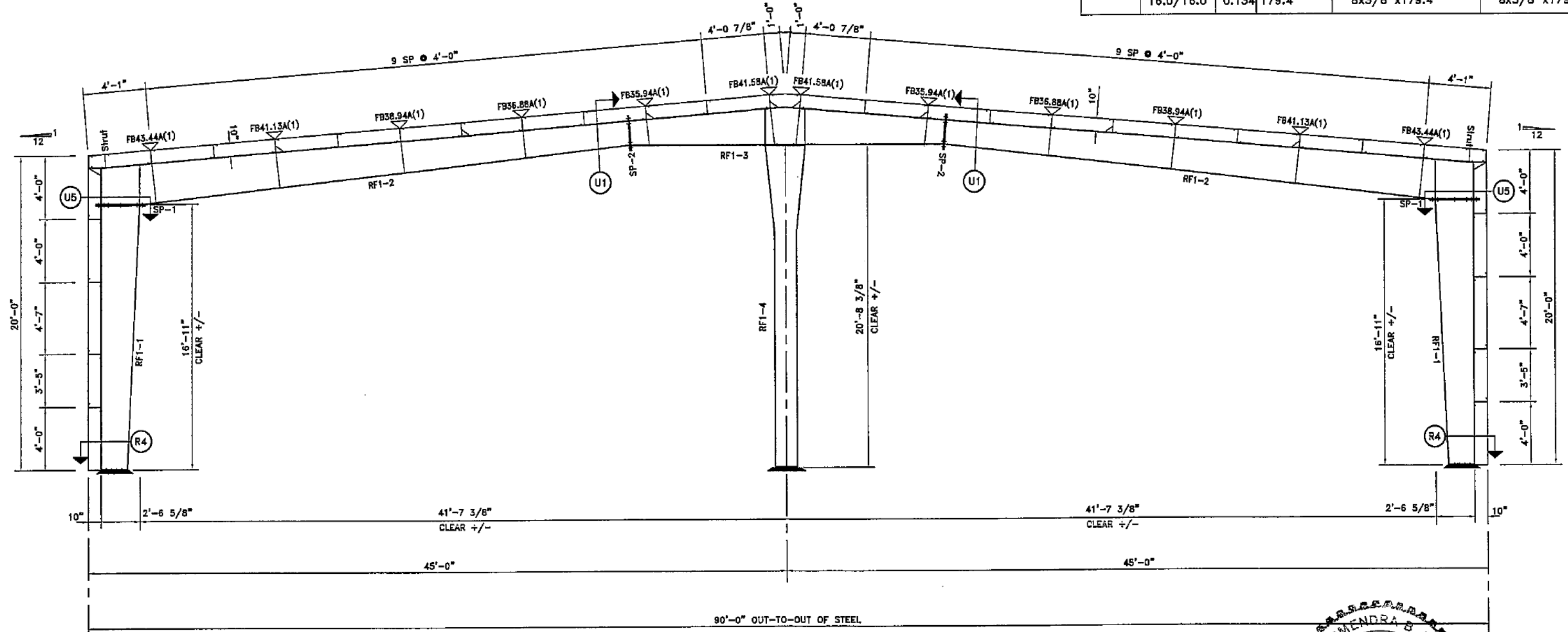
THIS DRAWING IS NOT TO SCALE

OWNER:	FILE NAME
LOCATION: GUAM, USA	ABR1
BUILDER:	JOB NUMBER
	F00929
	SHEET OF
	04 14

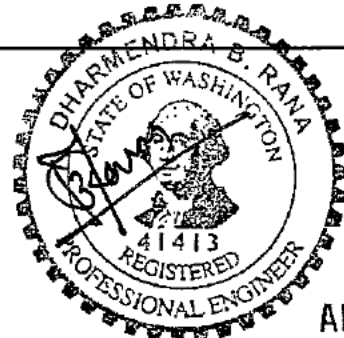
SPLICE PLATES & BOLTS								CAP PLATE BOLTS						
Splice Mark	Quan		Bolt			Plate Size			Col Id	Qty	Typ	Dia	Len	
	Top	Bot	Type	Dia	Len	Wid	Thick	Length						
Sp-1	6	4	2	A325	1.000	3.00	8"	5/8"	3'-3"	RF1-4	8	A325	0.750	2.75
Sp-2	4	4	0	A325	0.625	2.50	8"	5/8"	2'-3"					

PIECE	WEB DEPTH		WEB PLATE		OUTSIDE FLANGE		INSIDE FLANGE	
	START	END	THICK	LENGTH	W x T x LEN	W x T x LEN	W x T x LEN	W x T x LEN
RF1-1	20.0	30.0	0.188	201.4	7x5/16x201.4			
RF1-2	30.0	25.6	0.250	172.5	7x5/16x 27.2	7x1/4 x240.0	7x1/4 x240.0	
	25.6	18.0	0.188	240.0	7x1/4 x170.6			
RF1-3	18.0	28.0	0.250	119.6	8x3/8 x120.0	8x3/8 x 98.6	8x3/8 x 98.6	
	28.0	18.0	0.250	119.6	8x3/8 x120.0			
RF1-4	29.8	15.9	0.188	65.4	8x3/8 x 65.8	8x3/8 x 65.8	8x3/8 x 65.8	
	16.0	16.0	0.134	179.4	8x3/8 x179.4			

FLANGE BRACES: Both Sides(U.N.)
 FBxxA(1): xx=length(in), (1)=one side
 A - L2x1/8



RIGID FRAME ELEVATION
 FOR FRAME LINE 2 3 4 5



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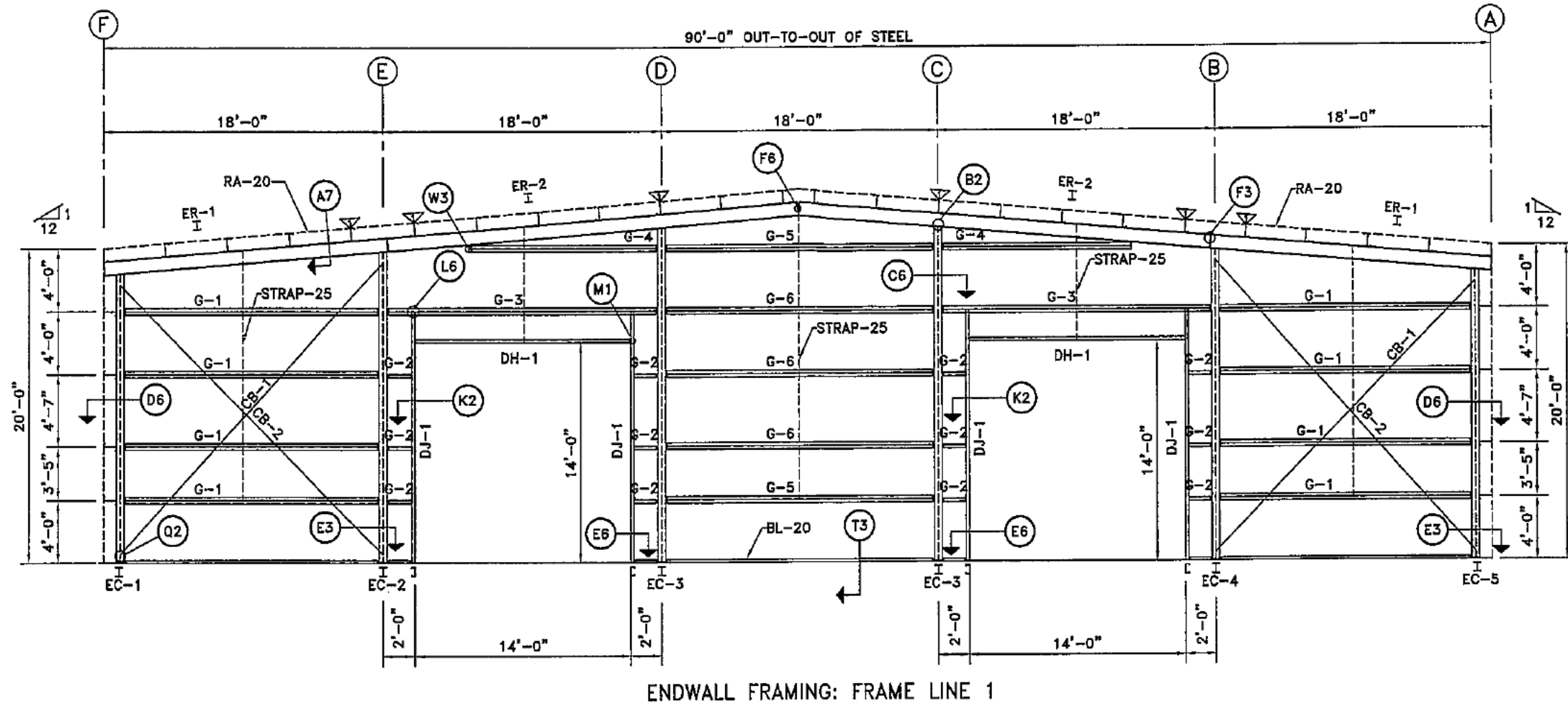
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 FAX (509) 837-8064

DRAWING TITLE:
 RIGID FRAME SECTION
 AT FRAME LINE 2 TO 5

THIS DRAWING IS NOT
 TO SCALE

OWNER: [REDACTED]
 LOCATION: GUAM, USA
 BUILDER: [REDACTED]

FILE NAME	RFS1
JOB NUMBER	F00929
SHEET	05
OF	14



BOLT TABLE
FRAME LINE 1

LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	B	A325	1/2"	1 1/2"
ER-2/ER-2	B	A325	1/2"	1 1/2"
Columns	4	A325	1/2"	1 1/2"

MEMBER TABLE
FRAME LINE 1

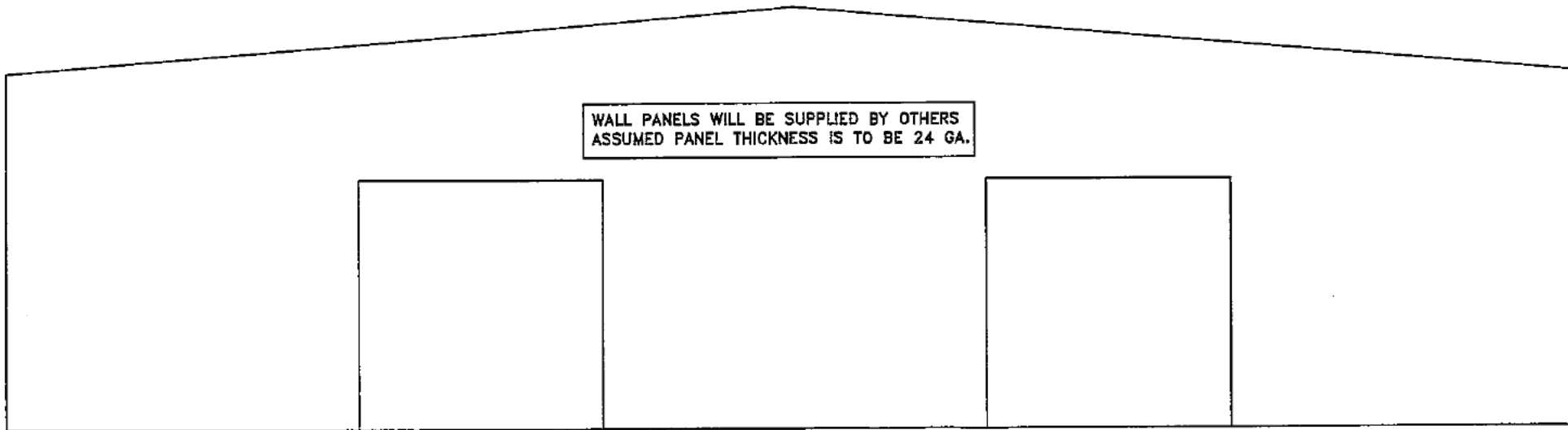
MARK	PART	LENGTH
EC-1	W14641	18'-4 3/16"
EC-2	W14641	19'-9 3/16"
EC-3	W14741	21'-3 3/16"
EC-4	W14641	19'-9 3/16"
EC-5	W14641	18'-4 3/16"
ER-1	W10641	18'-7 5/16"
ER-2	W10641	26'-5 3/16"
DJ-1	C8x13.75	16'-0"
DH-1	8025C14	14'-0"
G-1	8025DC16	16'-3 1/2"
G-2	8025C12	1'-3 3/4"
G-3	8025DC14	17'-3 1/2"
G-4	8025DC16	14'-4 7/8"
G-5	8025DC16	17'-3 1/2"
G-6	8025DC14	17'-3 1/2"
CB-1	CAB.5	23'-4"
CB-2	CAB.5	22'-4"

ANGLE TABLE
FRAME LINE 1

PART	LENGTH
BL-20	20'-0"
RA-20	20'-0"
STRAP-25	563'-0"

FLANGE BRACE TABLE
FRAME LINE 1

ID	MARK	LENGTH
1	FB27.56	2'-3 9/16"



NOTE:-
ROOF, WALL PANEL SUPPLIED BY OTHERS SHALL MEET OR EXCEED THE FOLLOWING SECTION PROPERTIES.

Gauge	Thickness (In.)	Weight (psf.)	Ix (In ⁴ /ft)	Sx (In ³ /ft)	Va (klps/ft)	Top in Compression (Positive Bending)			Bottom in Compression (Negative Bending)		
						Ixe (In ⁴ /ft)	Sxe (In ³ /ft)	Ma (In.kips/ft.)	Ixb (In ⁴ /ft)	Sxb (In ³ /ft)	Mb (In.kips/ft.)
24.000	0.0225	1.1040	0.0633	0.0633	0.9750	0.0560	0.0581	1.7400	0.0497	0.0621	1.8600

ENDWALL SHEETING & TRIMS : FRAME LINE 1
PANELS : BY OTHERS



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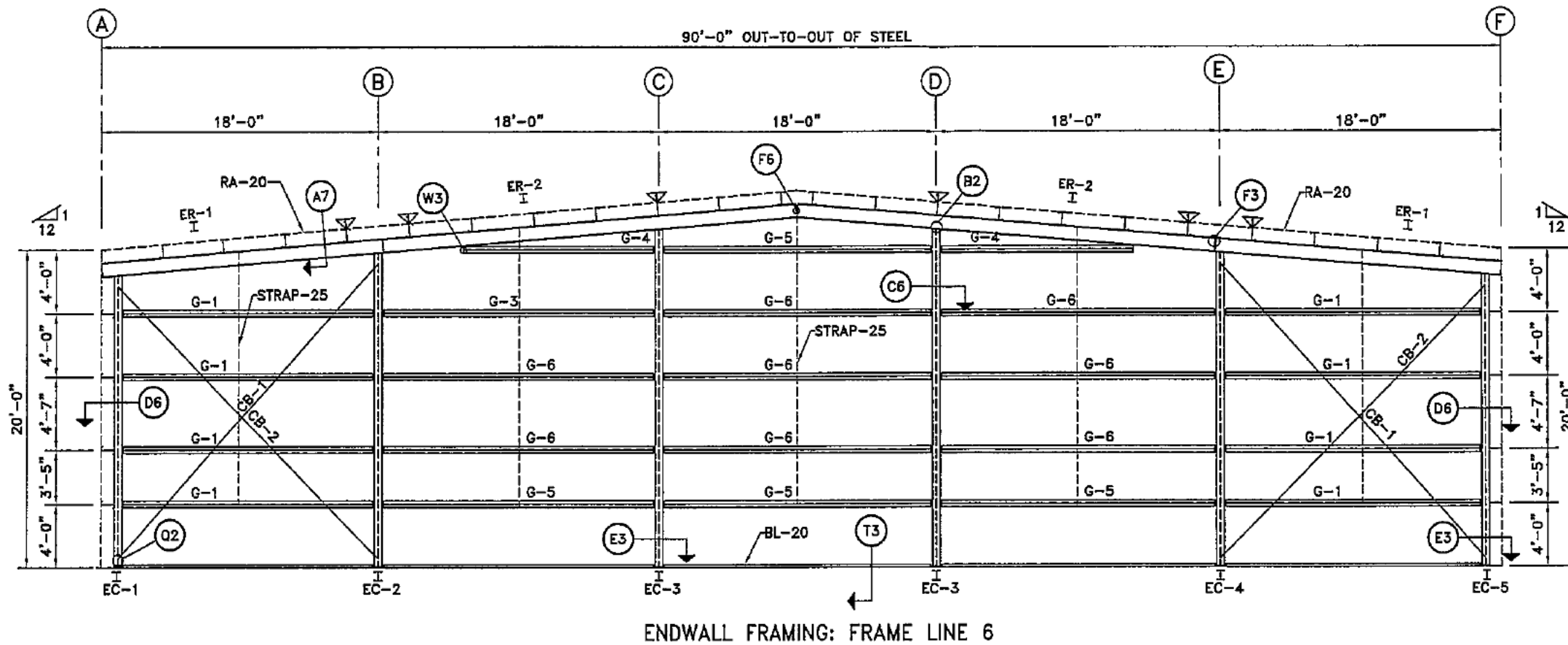
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DRAWING TITLE:
LEFT ENDWALL FRAMING & SHEETING ELEVATIONS

THIS DRAWING IS NOT TO SCALE

OWNER : [REDACTED]
LOCATION : GUAM, USA
BUILDER : [REDACTED]

FILE NAME	JOB NUMBER	SHEET OF
LEW1	F00929	06 OF 14



BOLT TABLE
FRAME LINE 6

LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	8	A325	1/2"	1 1/2"
ER-2/ER-2	8	A325	1/2"	1 1/2"
Columns	4	A325	1/2"	1 1/2"

MEMBER TABLE
FRAME LINE 6

MARK	PART	LENGTH
EC-1	W14641	18'-4 3/16"
EC-2	W14641	19'-9 3/16"
EC-3	W14741	21'-3 3/16"
EC-4	W14641	19'-9 3/16"
EC-5	W14641	18'-4 3/16"
ER-1	W10641	18'-7 5/16"
ER-2	W10641	26'-5 3/16"
G-1	8025DC16	16'-3 1/2"
G-4	8025DC16	14'-4 7/8"
G-5	8025DC16	17'-3 1/2"
G-6	8025DC14	17'-3 1/2"
CB-1	CAB.5	23'-4"
CB-2	CAB.5	22'-4"

ANGLE TABLE
FRAME LINE 6

PART	LENGTH
BL-20	20'-0"
RA-20	20'-0"
STRAP-25	563'-0"

FLANGE BRACE TABLE
FRAME LINE 6

ID	MARK	LENGTH
1	FB27.56	2'-3 9/16"

WALL PANELS WILL BE SUPPLIED BY OTHERS
ASSUMED PANEL THICKNESS IS TO BE 24 GA.

ENDWALL SHEETING & TRIMS : FRAME LINE 6
PANELS : BY OTHERS

NOTE:-
ROOF, WALL PANEL SUPPLIED BY OTHERS
SHALL MEET OR EXCEED THE FOLLOWING
SECTION PROPERTIES.

Gauge	Thickness (in.)	Weight (psf.)	Ix (in ⁴ /ft)	Sx (in ³ /ft)	Va (kips/ft)	Top In Compression (Positive Bending)			Bottom In Compression (Negative Bending)		
						Ixe (in ⁴ /ft)	Sxe (in ³ /ft)	Ma (in.kips/ft.)	Ixb (in ⁴ /ft)	Sxb (in ³ /ft)	Mb (in.kips/ft.)
24.000	0.0225	1.1040	0.0633	0.0633	0.9750	0.0560	0.0581	1.7400	0.0497	0.0621	1.8600



APR 14 2005

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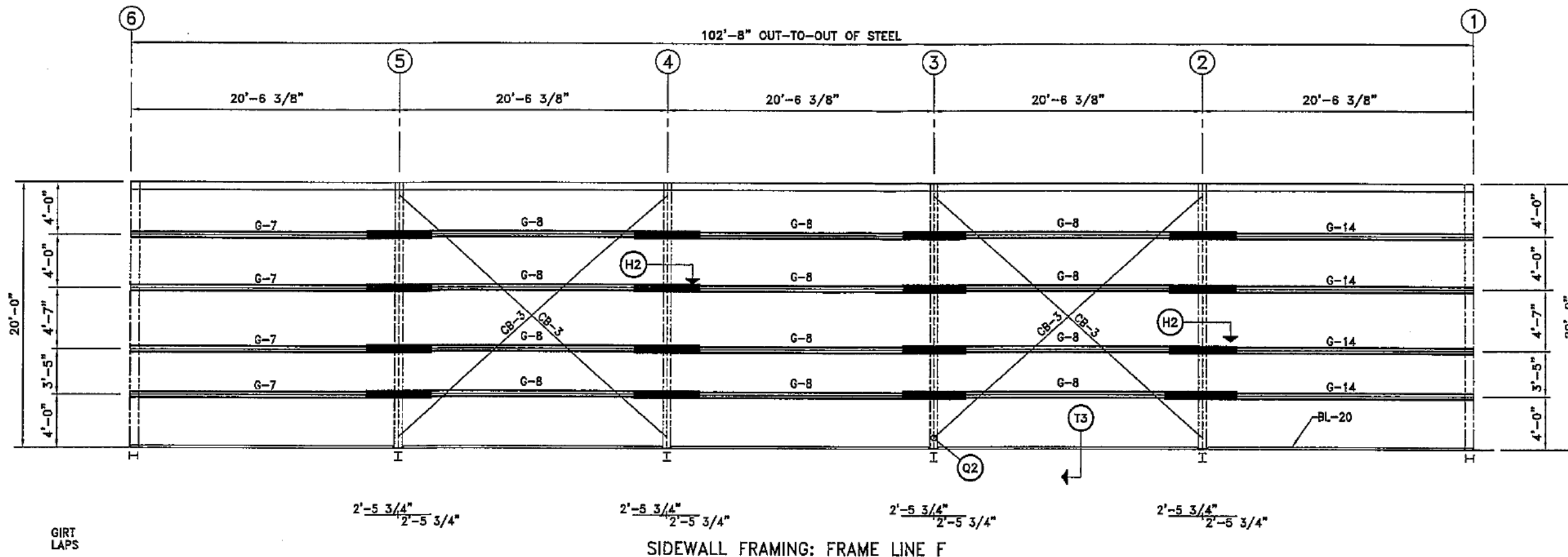
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DRAWING TITLE:
**RIGHT ENDWALL FRAMING
& SHEETING ELEVATIONS**

THIS DRAWING IS NOT
TO SCALE

OWNER: [REDACTED]
LOCATION: GUAM, USA
BUILDER: [REDACTED]

FILE NAME
REW1
JOB NUMBER
F00929
SHEET OF
07 14



MEMBER TABLE		
FRAME LINE F		
MARK	PART	LENGTH
G-7	1025Z12	22'-11 7/8"
G-8	1025Z14	25'-5 7/8"
G-14	1025Z12	22'-11 7/8"
CB-3	ABR3.0	27'-4"

ANGLE TABLE	
FRAME LINE F	
PART	LENGTH
BL-20	20'-0"

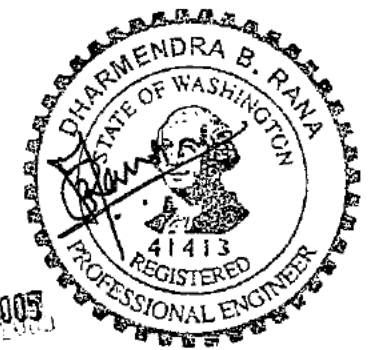
(Gutters with 3 downspouts)

WALL PANELS WILL BE SUPPLIED BY OTHERS
ASSUMED PANEL THICKNESS IS TO BE 24 GA.

SIDEWALL SHEETING & TRIMS : FRAME LINE F
PANELS : BY OTHERS

NOTE:-
ROOF, WALL PANEL SUPPLIED BY OTHERS
SHALL MEET OR EXCEED THE FOLLOWING
SECTION PROPERTIES.

Gauge	Thickness (in.)	Weight (psf.)	Ix (in ⁴ /ft)	Sx (in ³ /ft)	Va (kips/ft)	Top In Compression (Positive Bending)			Bottom In Compression (Negative Bending)		
						Ixe (in ⁴ /ft)	Sxe (in ³ /ft)	Ma (in.kips/ft.)	Ixe (in ⁴ /ft)	Sxe (in ³ /ft)	Ma (in.kips/ft.)
24.000	0.0225	1.1040	0.0633	0.0633	0.9750	0.0560	0.0581	1.7400	0.0497	0.0621	1.8600



ADD 1 4 2005
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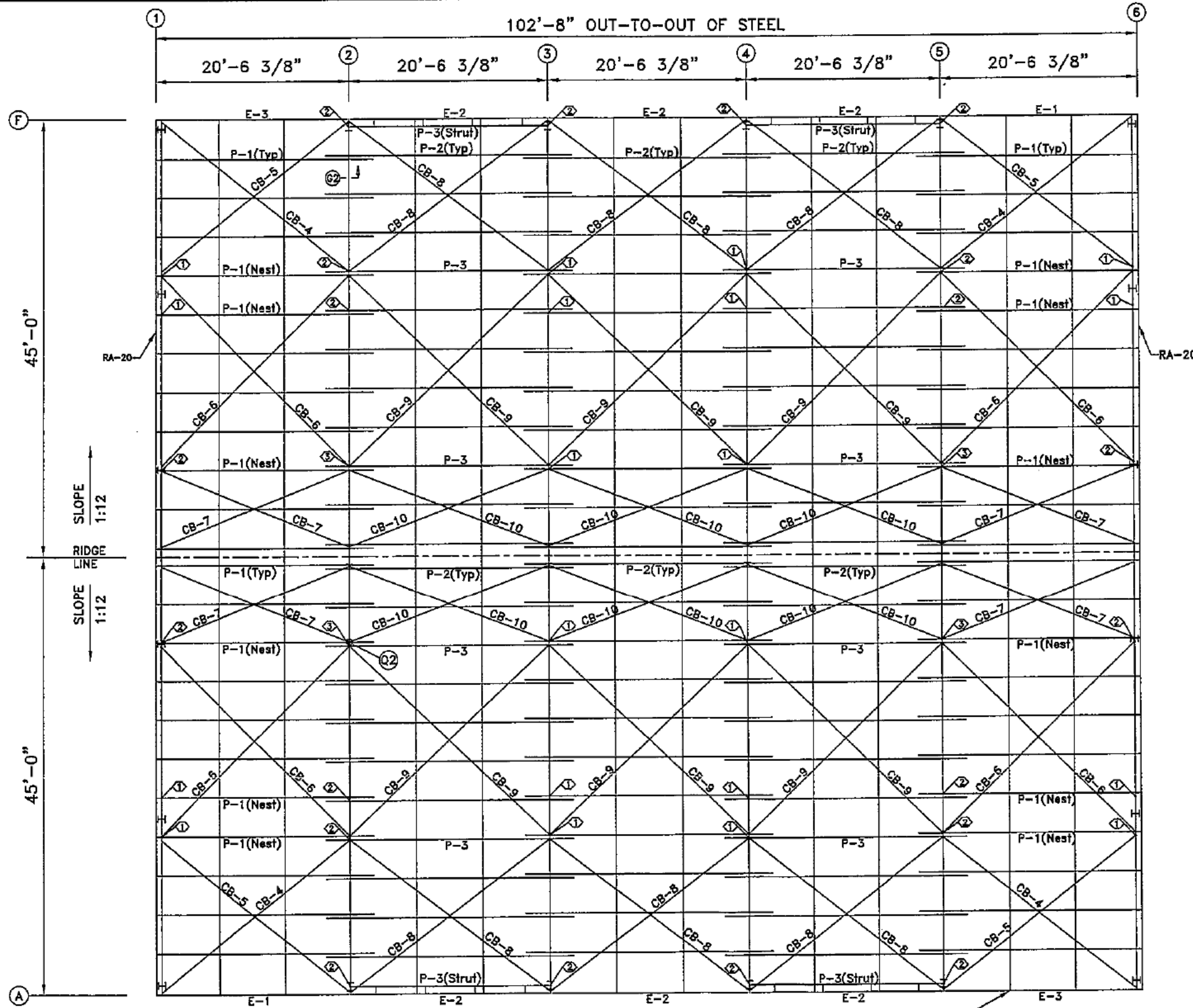
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DRAWING TITLE:
**BACK SIDEWALL FRAMING
& SHEETING ELEVATIONS**

THIS DRAWING IS NOT
TO SCALE

OWNER:	FILE NAME
LOCATION: GUAM, USA	BSW1
BUILDER:	JOB NUMBER
	F00929
	SHEET OF
	09 14



SPECIAL BOLTS					
ROOF PLAN					
Q ID	QUAN	TYPE	DIA	LENGTH	WASH
1	2	A325	1/2"	1 1/2"	2
2	4	A307	1/2"	1 1/4"	2
3	4	A325	1/2"	1 1/2"	2

MEMBER TABLE		
ROOF PLAN		
MARK	PART	LENGTH
P-1	1025Z12	22'-11 7/8"
P-2	1025Z14	25'-5 7/8"
P-3	1025Z12	25'-5 7/8"
E-1	ES10C12	20'-5 7/8"
E-2	ES10C12	20'-5 7/8"
E-3	ES10C12	20'-5 7/8"
CB-4	CAB.5	23'-6"
CB-5	CAB.5	23'-4"
CB-6	CAB.375	26'-5"
CB-7	CAB.25	20'-3"
CB-8	CAB.5	23'-8"
CB-9	CAB.375	26'-8"
CB-10	CAB.25	20'-7"

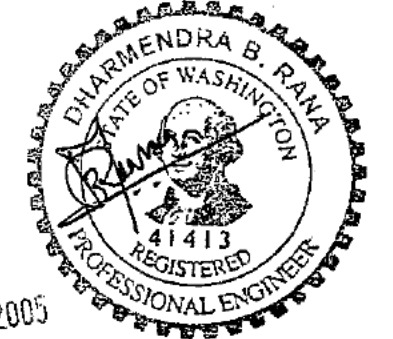
ANGLE TABLE	
ROOF PLAN	
PART	LENGTH
RA-20	20'-0"
SA-25	25'-0"

NOTE:-
ROOF, WALL PANEL SUPPLIED BY OTHERS SHALL MEET OR EXCEED THE FOLLOWING SECTION PROPERTIES.

Gauge	Thickness (in.)	Weight (psf.)	I _x (in ⁴ /ft)	S _x (in ³ /ft)	Y _c (in)	Top In Compression (Positive Bending)			Bottom In Compression (Negative Bending)		
						I _{xc} (in ⁴ /ft)	S _{xc} (in ³ /ft)	M _{xc} (in.kips/ft.)	I _{xc} (in ⁴ /ft)	S _{xc} (in ³ /ft)	M _{xc} (in.kips/ft.)
24.000	0.0225	1.1040	0.0633	0.0633	0.9750	0.0580	0.0581	1.7400	0.0497	0.0821	1.8800

ROOF FRAMING PLAN

ROOF SHEETING
PANELS: 24 Ga. R-36
Zincalume
(BY OTHERS)



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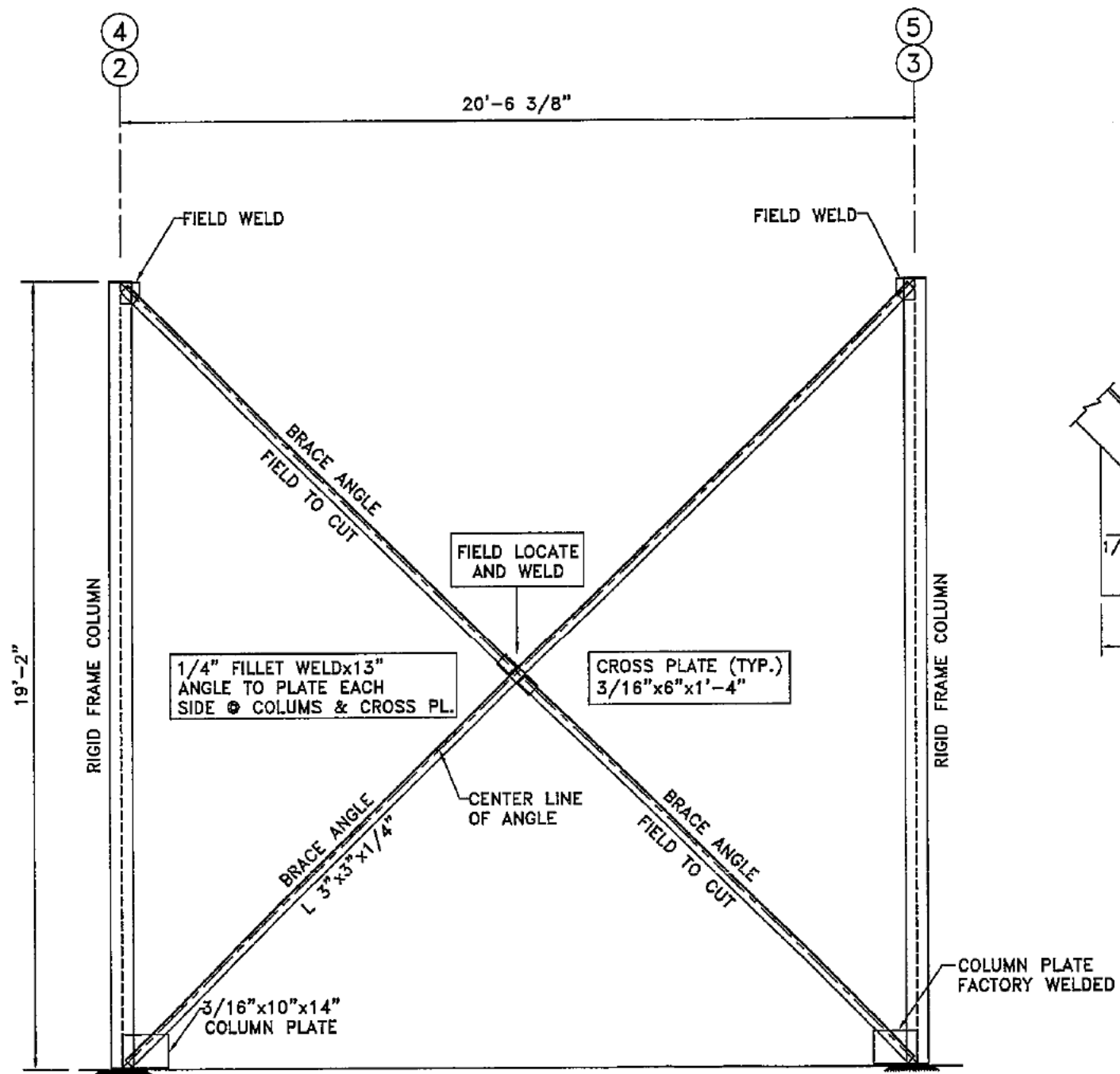


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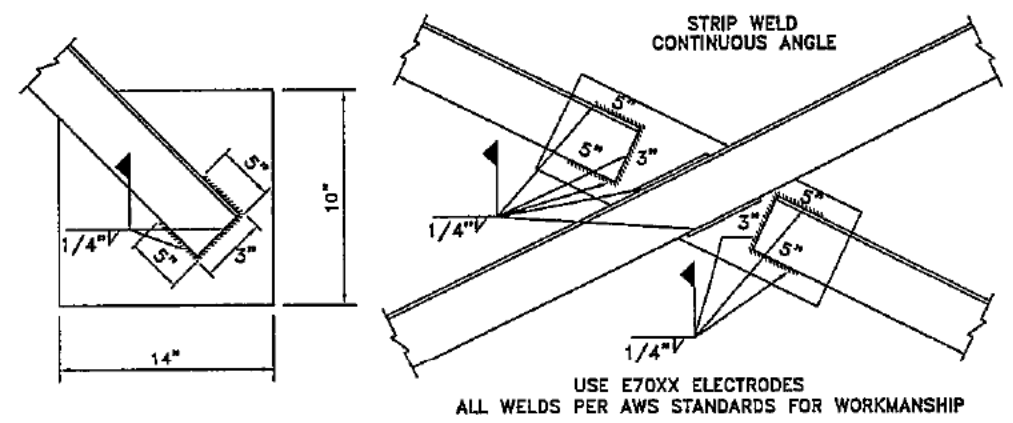
DRAWING TITLE:
ROOF FRAMING PLAN

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OWNER:	FILE NAME: RFP1
LOCATION: GUAM, USA	JOB NUMBER: F00929
BUILDER:	SHEET 10 OF 14

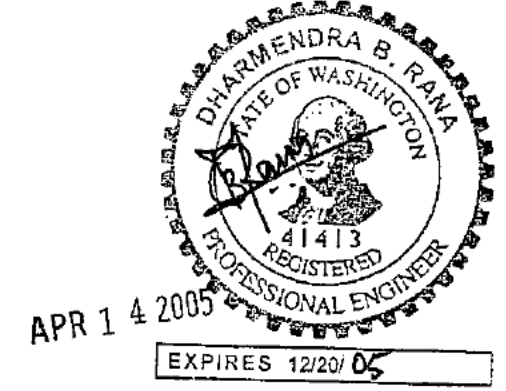


TYPICAL WELD @ CENTER PLATES
(1/4" FILLETS) FIELD WELD



ANGLE BRACE WELD DETAILS

ANGLE BRACING LAYOUT
TWO SETS AS DRAWN AND NOTED FOR FRAME LINE A ONLY
TWO SETS AS DRAWN AND NOTED BUT OPP. HAND FOR FRAME LINE F ONLY



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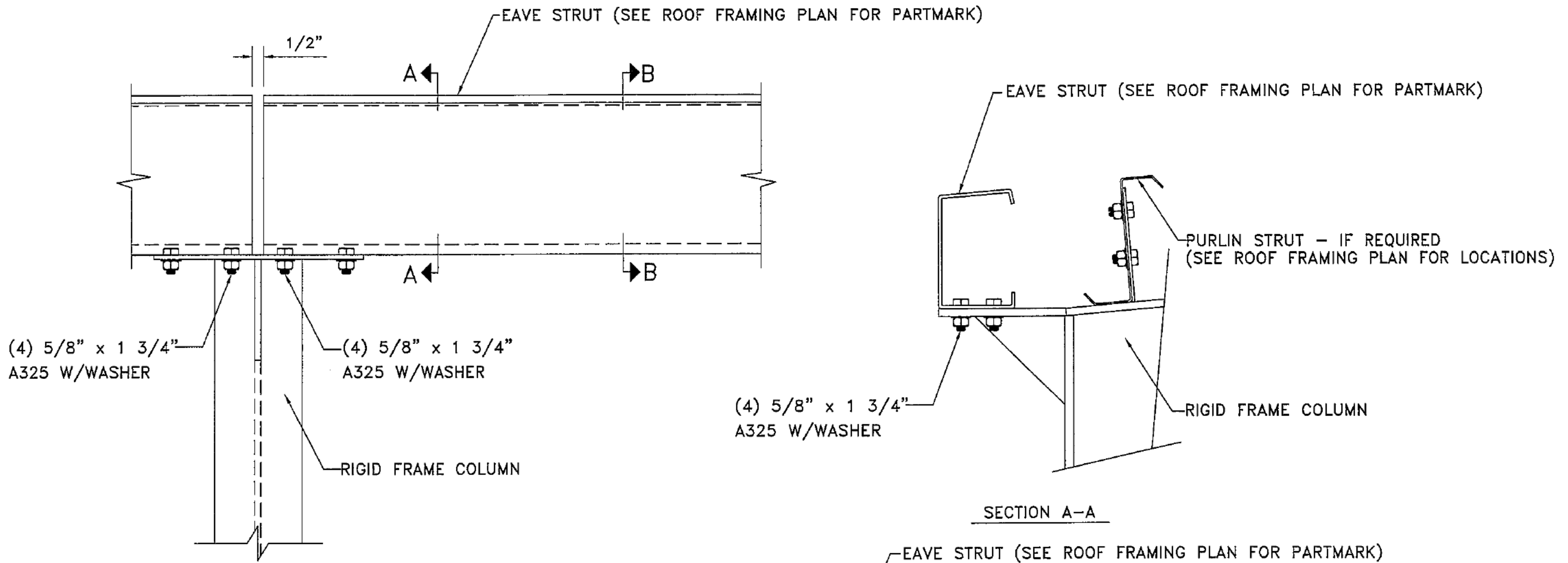
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(509) 839-7000
FAX (509) 837-8054

DRAWING TITLE:
ANGLE BRACING DETAIL

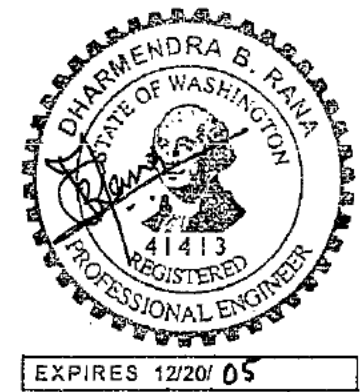
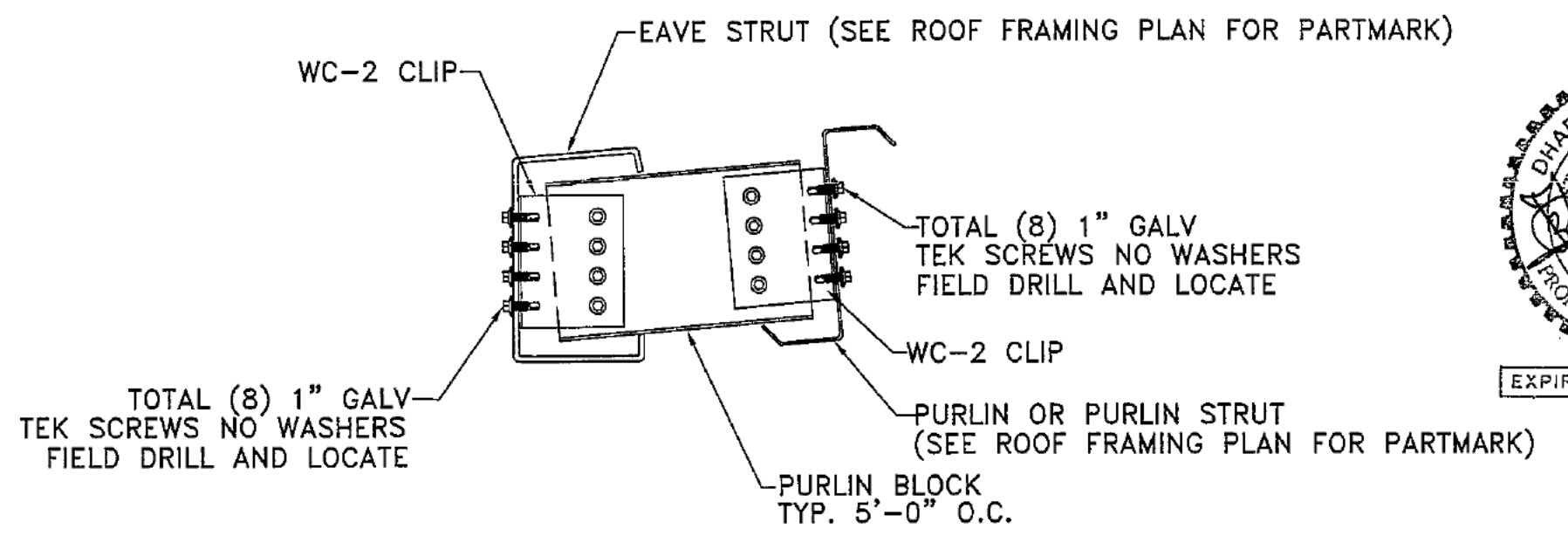
THIS DRAWING IS NOT TO SCALE

OWNER: [REDACTED]
LOCATION: **GUAM, USA**
BUILDER: [REDACTED]

FILE NAME	ANG1
JOB NUMBER	F00929
SHEET OF	11 OF 14



FORMED EAVE STRUT DETAILS



APR 14 2005

SECTION B-B (FOR USE WITH STRUT OR PURLIN BLOCK ONLY)

DATE	NO.	REVISIONS	BY	CHK./
04/08/05	00	ISSUE FOR APPROVAL	SP	KG

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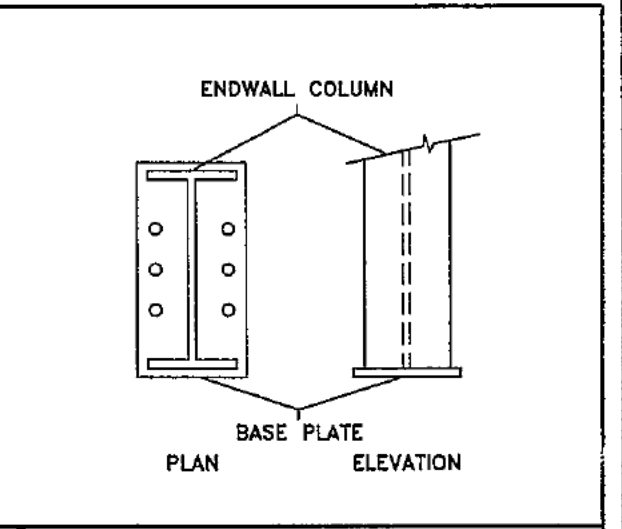
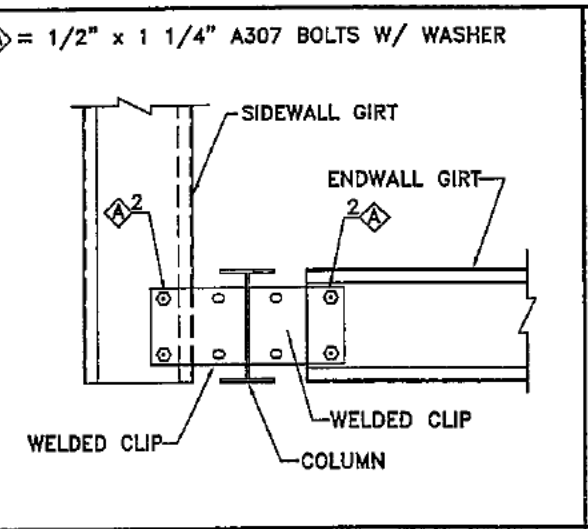
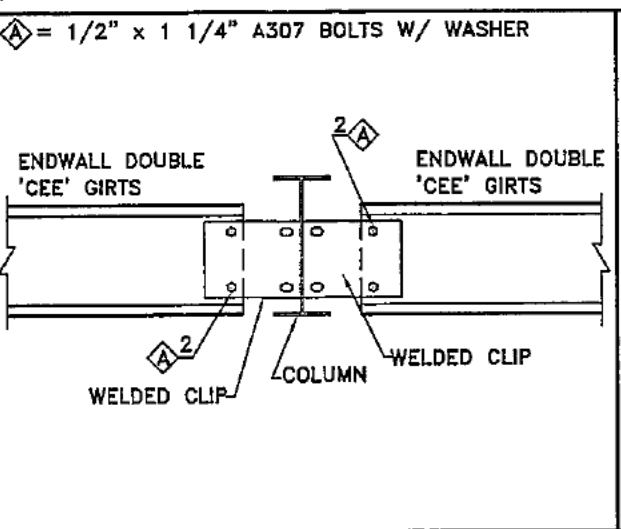
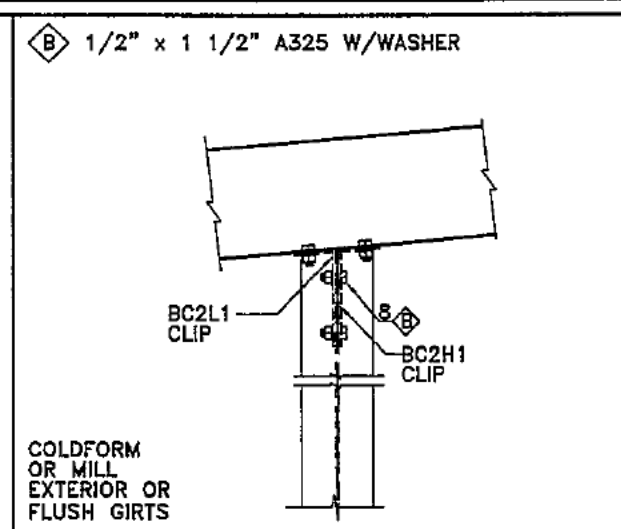
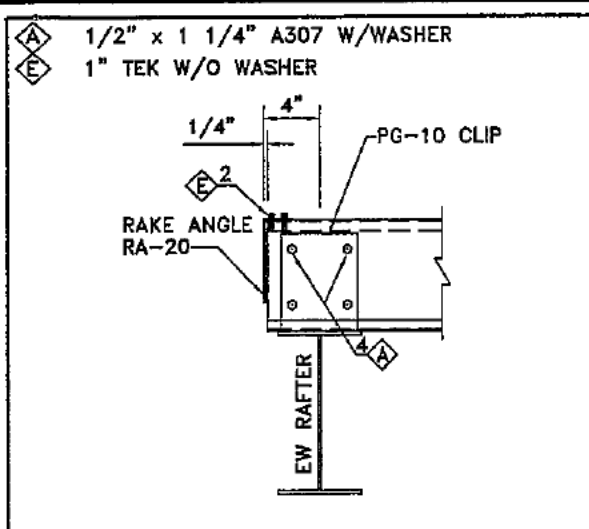
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DRAWING TITLE:
FORMED EAVE STRUT DETAIL

THIS DRAWING IS NOT TO SCALE

OWNER: [REDACTED]
 LOCATION: **GUAM, USA**
 BUILDER: [REDACTED]

FILE NAME	FES1
JOB NUMBER	F00929
SHEET OF	12 OF 14



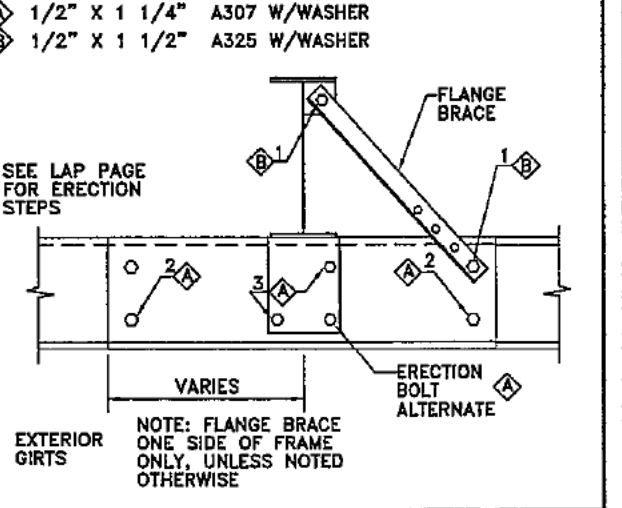
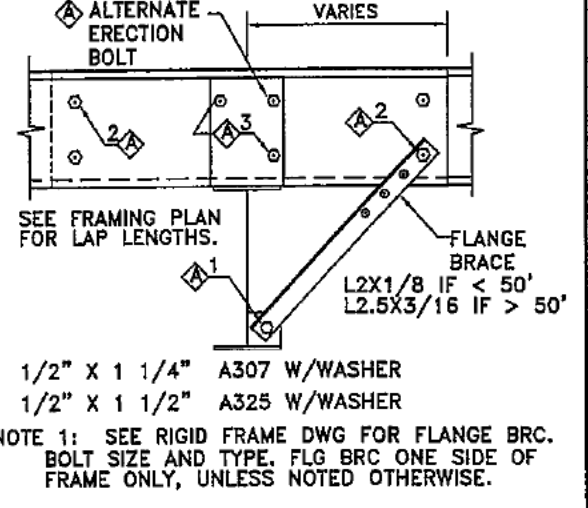
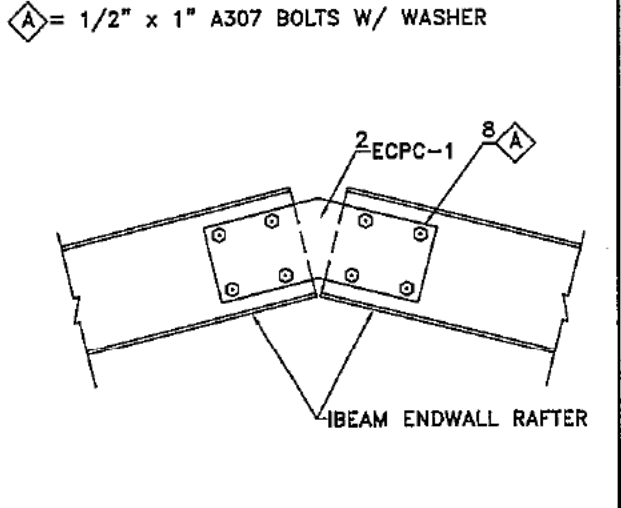
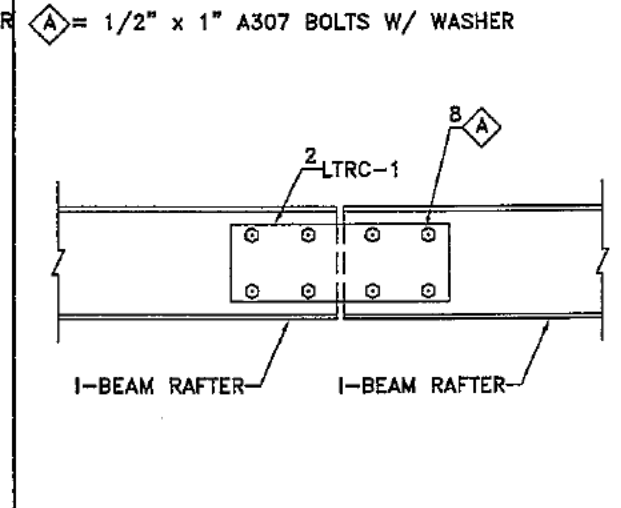
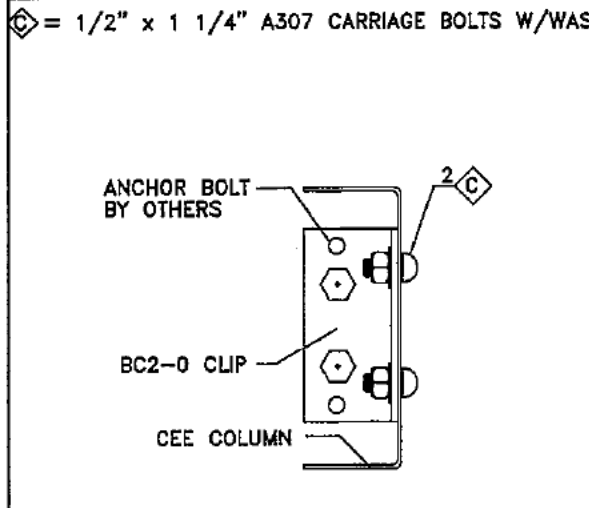
A7 RAFTER TO PURLIN
DETAIL AT ENDWALL

B2 ENDWALL RAFTER TO COLUMN
RAFTER DETAIL AT ENDWALL

C6 ENDWALL COLUMN TO WALL GIRT
DETAIL AT ENDWALL

D6 CORNER COLUMN TO WALL GIRT
DETAIL AT ENDWALL

E3 COLUMN BASE PLATE
DETAIL AT ENDWALL



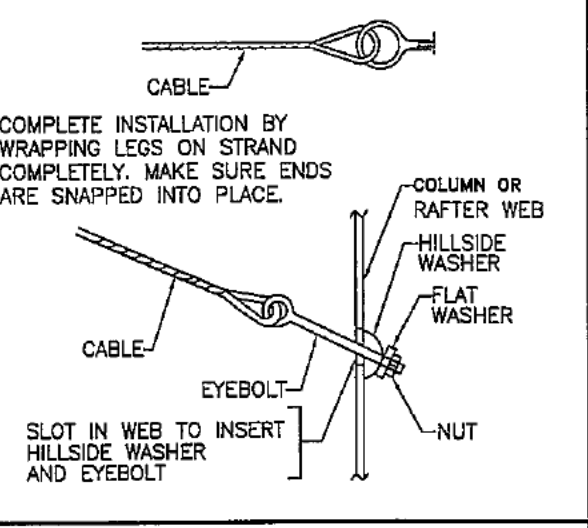
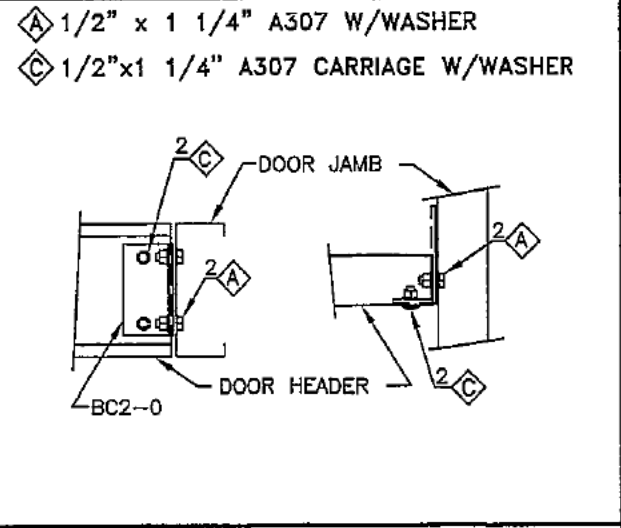
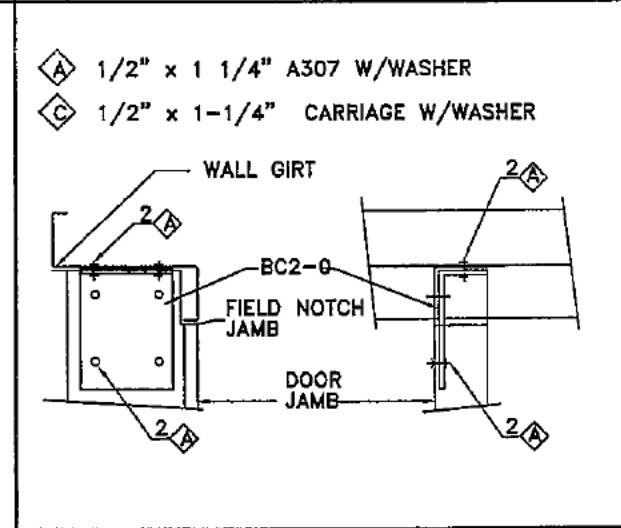
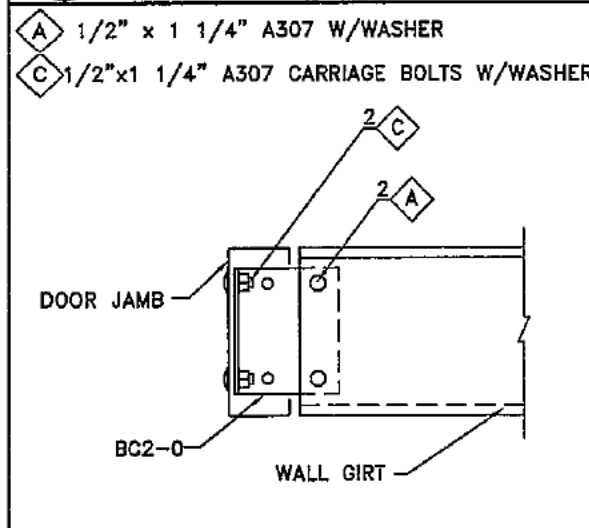
E6 COLUMN OR DOOR JAMB BASE PLATE
DETAIL AT ENDWALL

F3 I-BEAM RAFTER SPLICE
DETAIL AT ENDWALL

F6 I-BEAM RAFTER PEAK CONNECTION
DETAIL AT ENDWALL

G2 PURLIN CONNECTION
BYPASS LAP @ INTERIOR RAFTER

H2 WALL GIRT TO FRAME COLUMN



K2 WALL GIRT TO DOOR JAMB

L6 DOOR JAMB TO WALL GIRT

M1 DOOR HEADER TO DOOR JAMB

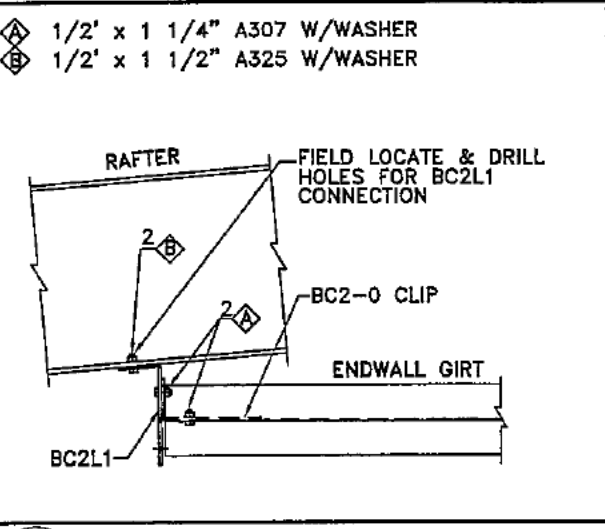
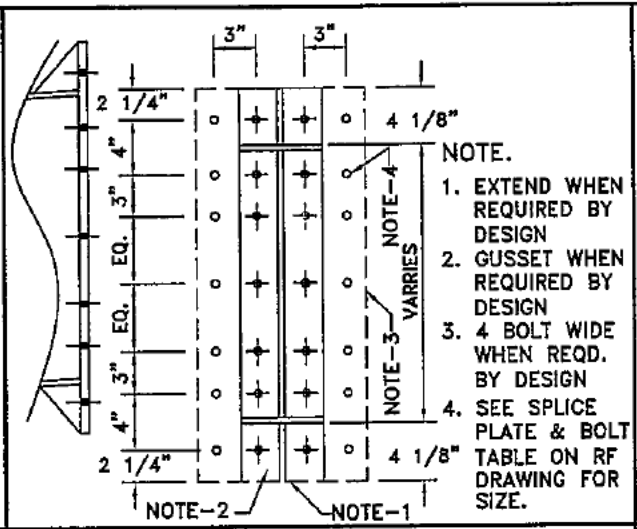
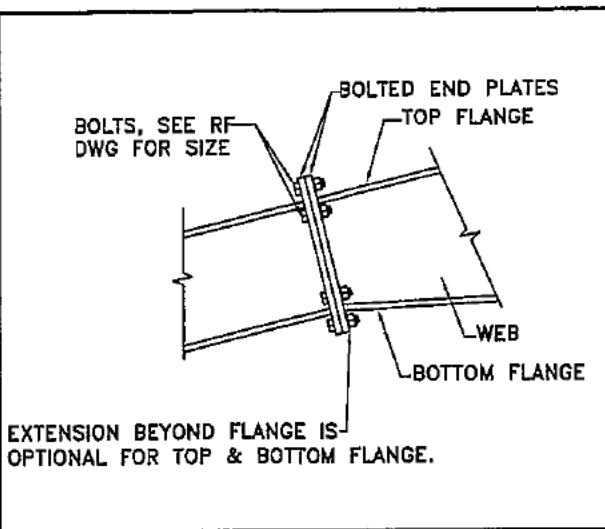
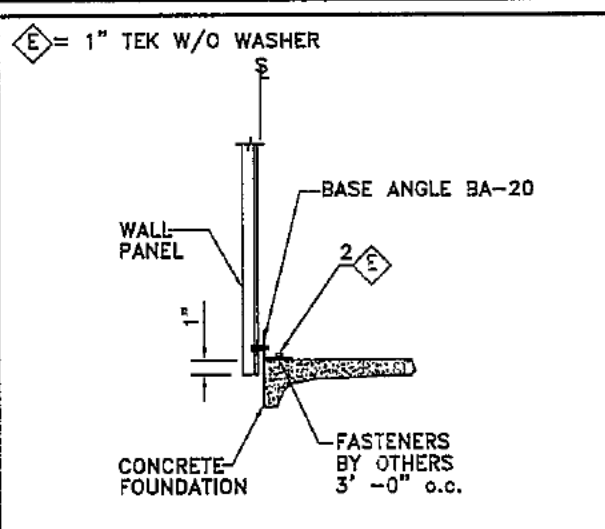
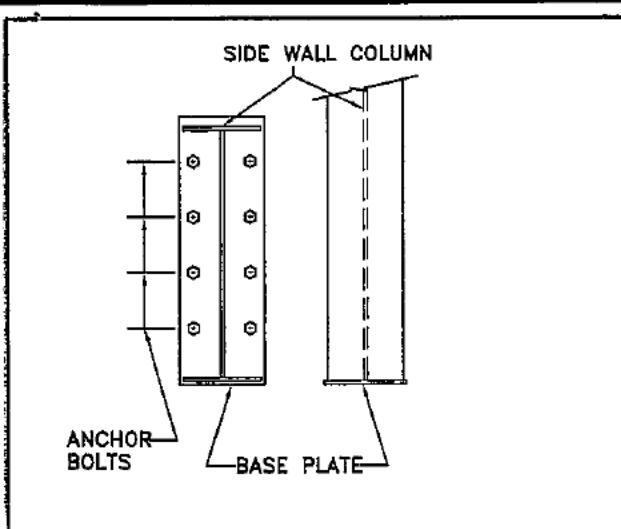
Q2 DIAGONAL CABLE, EYEBOLT END

DATE	NO.	REVISIONS	BY	CHK./
04/08/05	00	ISSUE FOR APPROVAL	SP	KG

DRAWING TITLE:
GENERAL DETAILS

THIS DRAWING IS NOT TO SCALE

OWNER:	[REDACTED]	FILE NAME:	DET1
LOCATION:	GUAM, USA	JOB NUMBER:	F00929
BUILDER:	[REDACTED]	SHEET OF:	13 OF 14



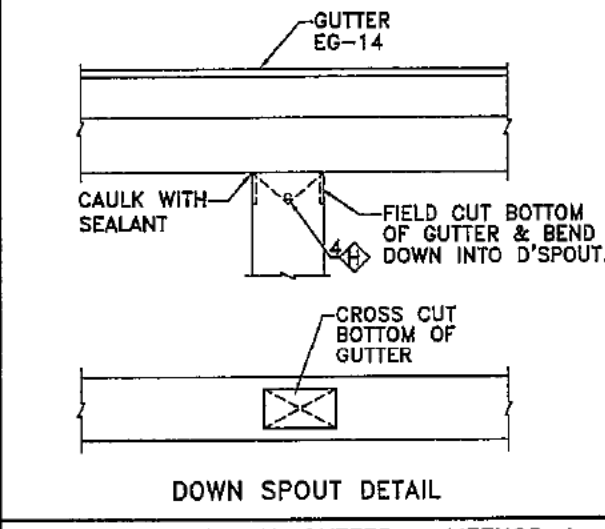
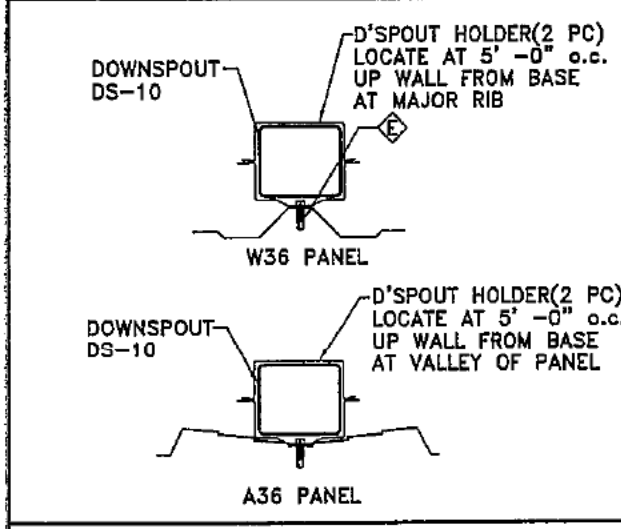
R4 ANCHOR BOLT AT SIDEWALL COLUMN
DETAIL AT SIDEWALL

T3 SECTION THRU WALL PANEL
DETAIL AT FOUNDATION

U1 BOLTED END PLATE RAFTER SPLICE
DETAIL AT RAFTER

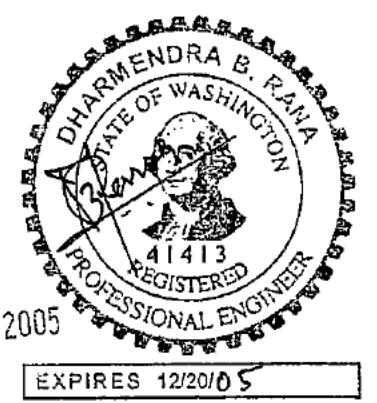
U5 HORIZONTAL HAUNCH SPLICE
BOLTED END PLATE

W3 GIRT TO RAFTER DETAIL



DOWNSPOUT HOLDER DETAIL
GUTTER AND DOWN SPOUT DETAILS

DOWN SPOUT TO GUTTER - METHOD 1
GUTTER AND DOWN SPOUT DETAILS



DATE	NO.	REVISIONS	BY	CHK/
04/08/05	00	ISSUE FOR APPROVAL	SP	KG

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BUILDING SYSTEMS
The Reliable Solution

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FAX (509) 837-8084

DRAWING TITLE:
GENERAL DETAILS

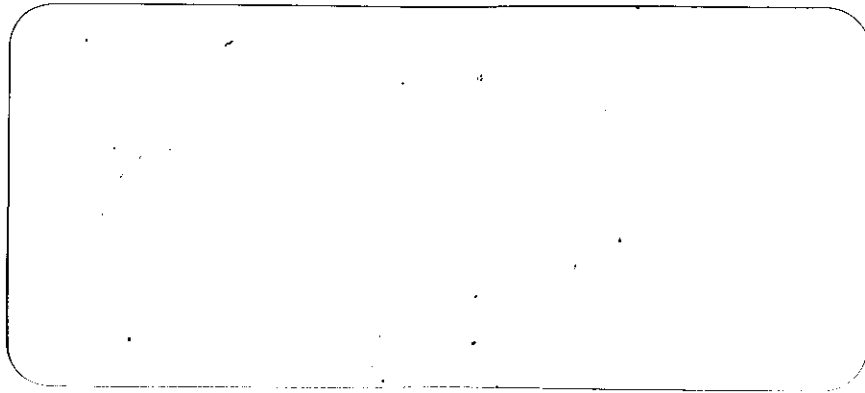
THIS DRAWING IS NOT TO SCALE

OWNER: [REDACTED]

LOCATION: GUAM, USA

BUILDER: [REDACTED]

FILE NAME	DET2
JOB NUMBER	F00929
SHEET	14
OF	14



STRUCTURAL CALCULATIONS

SUN BUILDING SYSTEMS


DESIGN CERTIFICATION

This is to certify that the metal building system to be furnished shall be designed in accordance with the order documents and will meet or exceed the load requirements as specified below. This includes all primary and secondary framing members, roof and siding panels, and all accessories furnished. The Owner and /or Contractor are responsible for retaining a Professional Engineer if building components are altered, except as required to fit manufacturer's drawings.

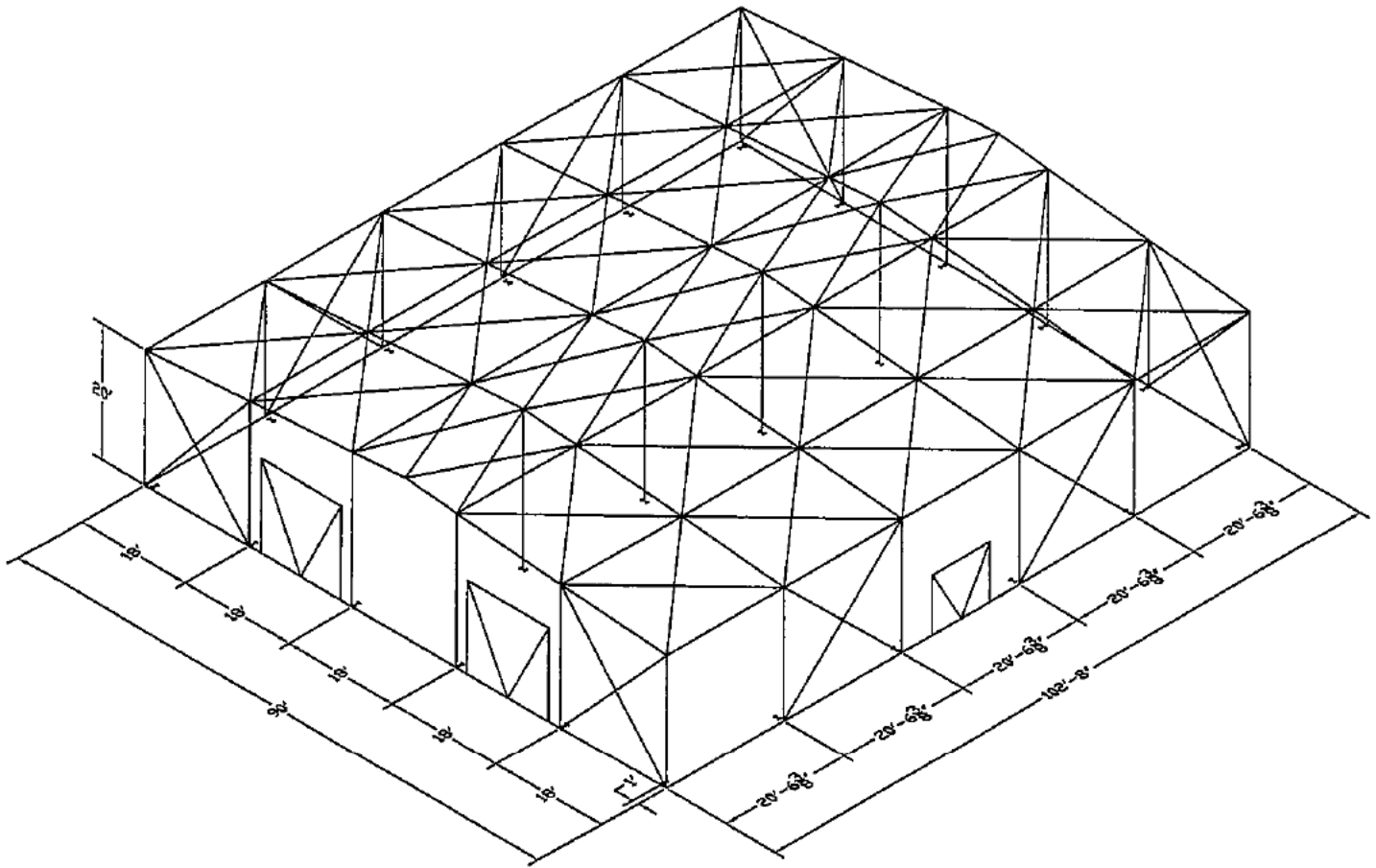
ENGINEERING CALCULATIONS

BUILDING CODE: <u>UBC 97</u>	JOB NUMBER: <u>F00929</u> JOB NAME: XXXXXXXXXX JOB LOCATION: <u>Guam, USA</u> BUILDER: XXXXXXXXXX	DATE: <u>4/6/2005 14:56</u> DESIGNED BY: <u>MAK</u> CHECKED BY: <u>Rana. D.</u>
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DESIGN PARAMETERS	COMMENTS
FRAME TYPE: <u>MB-1</u> ROOF SLOPE: <u>1:12</u> BAY SIZE: <u>20.5334 ft</u> NOMINAL WIDTH: <u>90 ft</u> LENGTH: <u>102.6667 ft</u> EAVE HEIGHT: <u>20 ft</u>	The structural integrity of this building design requires roof and wall sheeting, supplied by others, have the following minimum material properties: Gauge - 24, Thickness - 0.0225 in., Weight - 1.1040 psf., Moment of Inertia - 0.0633 in4, Section Modulus - 0.0663 in3, Allowable Shear - 0.9750 kips/ft, Positive Bending Effective Moment of Inertia - 0.0580 in4, Positive Bending Effective Section Modulus - 0.0581 in3, Positive Bending Effective Allowable Moment - 1.7400 in.kips/ft, Negative Bending Effective Moment of Inertia - 0.0497 in4, Negative Bending Effective Section Modulus - 0.0621 in3, Negative Bending Allowable Moment - 1.8600 in.kips/ft. Roof and wall panel shall also be of through fastened type, and installation shall conform to fastener schedule provided on the drawings.

DESIGN LOADS	ENGINEER'S SEAL		
<table style="width: 100%;"> <tr> <td style="width: 70%;"> BLDG DEAD LOAD: <u>7.5</u> psf ROOF DEAD LOAD: <u>2.5</u> psf LIVE LOAD: <u>20</u> psf ROOF SNOW LOAD: <u>0</u> psf COLLATERAL LOAD: <u>5</u> psf SEISMIC ZONE: <u>4</u> WIND SPEED/EXPOS: <u>170</u> mph <u>C</u> ENCLOSURE: <u>Enclosed</u> tan CRANE CAPACITY: _____ CRANE TYPE: _____ </td> <td style="width: 30%; vertical-align: top;"> IMPORTANCE: <u>1.00</u> <u>1.00</u> <u>1.00</u> </td> </tr> </table>	BLDG DEAD LOAD: <u>7.5</u> psf ROOF DEAD LOAD: <u>2.5</u> psf LIVE LOAD: <u>20</u> psf ROOF SNOW LOAD: <u>0</u> psf COLLATERAL LOAD: <u>5</u> psf SEISMIC ZONE: <u>4</u> WIND SPEED/EXPOS: <u>170</u> mph <u>C</u> ENCLOSURE: <u>Enclosed</u> tan CRANE CAPACITY: _____ CRANE TYPE: _____	IMPORTANCE: <u>1.00</u> <u>1.00</u> <u>1.00</u>	
BLDG DEAD LOAD: <u>7.5</u> psf ROOF DEAD LOAD: <u>2.5</u> psf LIVE LOAD: <u>20</u> psf ROOF SNOW LOAD: <u>0</u> psf COLLATERAL LOAD: <u>5</u> psf SEISMIC ZONE: <u>4</u> WIND SPEED/EXPOS: <u>170</u> mph <u>C</u> ENCLOSURE: <u>Enclosed</u> tan CRANE CAPACITY: _____ CRANE TYPE: _____	IMPORTANCE: <u>1.00</u> <u>1.00</u> <u>1.00</u>		
SPECIAL LOADS: <div style="border: 1px solid black; width: 100%; height: 50px; display: flex; align-items: center; justify-content: center;"> APR 14 2005 </div>	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> EXPIRES 12/20/05 </div>		
This seal is intended for certification of the structural design of the Metal Building System and Components as provided by SUN BUILDING SYSTEMS. Design and overview of all other portions of this project are NOT within the scope of SUN BUILDING SYSTEMS.			

IT IS THE RESPONSIBILITY OF THE PURCHASER TO VERIFY ALL DESIGN CRITERIA AND NOTIFY SUN BUILDING SYSTEMS OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO RELEASE FOR FABRICATION.



F00929

mak

4/6/2005

Live Load	20 PSF	Building Dead Load	7.5 PSF
Wind Load	85.47 PSF (170 MPH, C ,I= 1 ,ht= 21.88)		
Aux Load	5 PSF		
Seismic Zone	4 (Z= 0.4 ,I= 1)		
Eave Height	20 feet		
Pitch	1 :12		
Peak Height	23.75 feet		
Building Type	Symmetrical		
Width	90.00 feet	45 to peak	
Length	102.67 feet		
Purlins Spacing	4.00 feet on center		
Height of Floor	0.00 feet (If applicable)		

No other buildings within 20', except as noted
 Wall and Roof Condition = Enclosed



Basic Layout		BY	CHK	DATE	DRAWN
					MAK
				FILE NAME	CHECKED
				THIS DRAWING IS NOT TO SCALE	