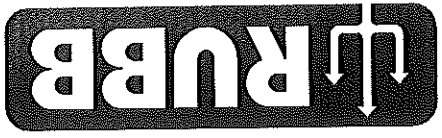


# RUBB BUILDING SYSTEMS



Design Loads  
ASCE 7-98  
110 mph Wind Exposure C  
50 psf Ground Snow Load

Rubb Job Numbers: 02038 & 02039

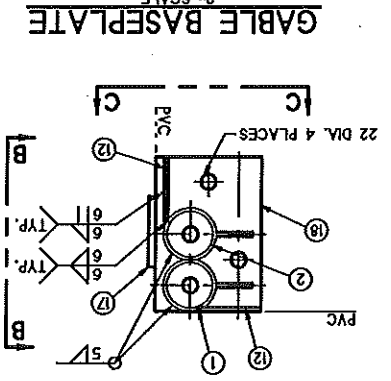
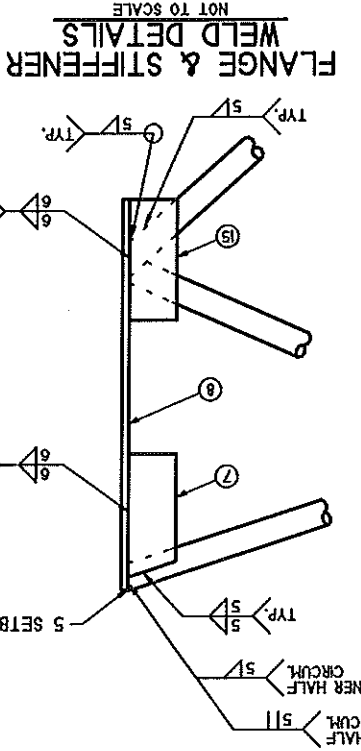
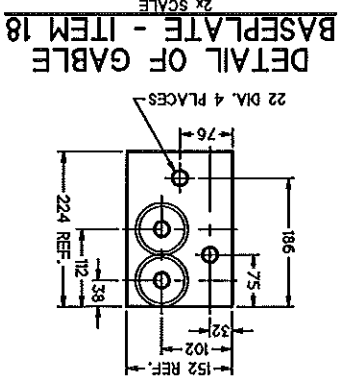
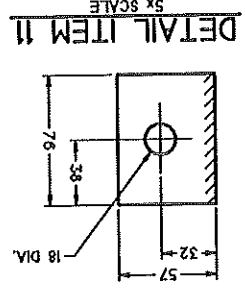
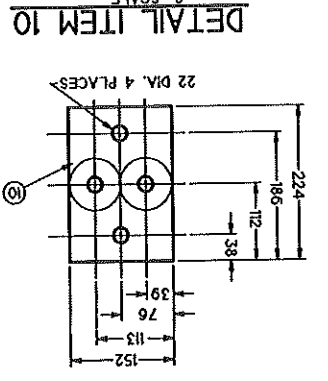
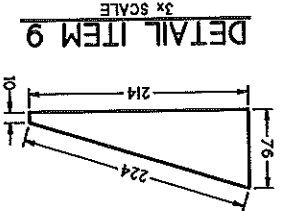
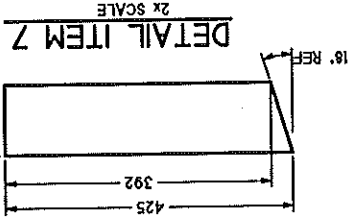
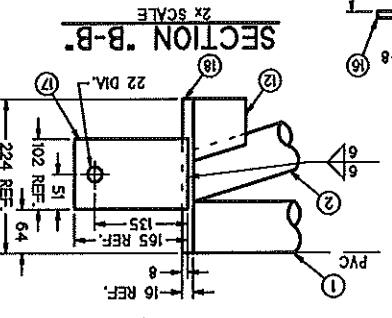
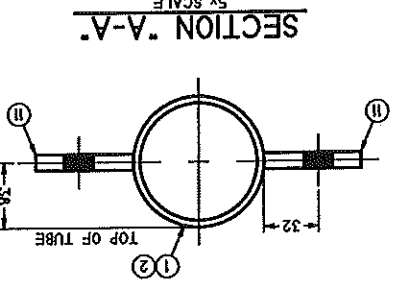
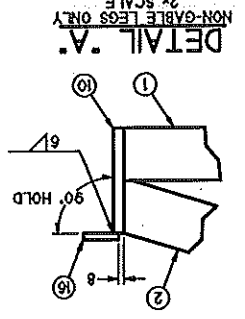
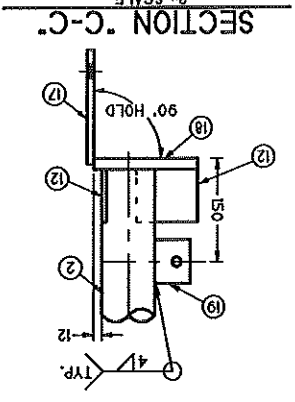
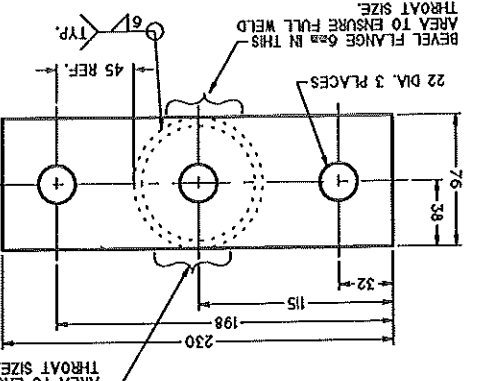
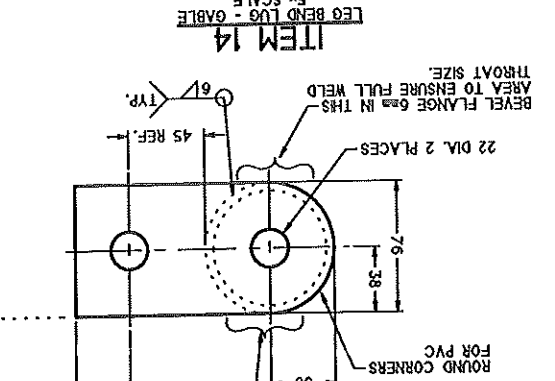
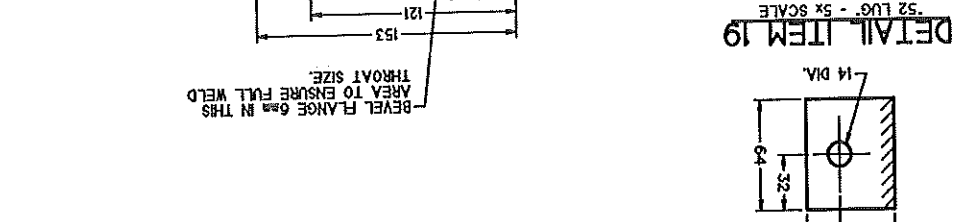
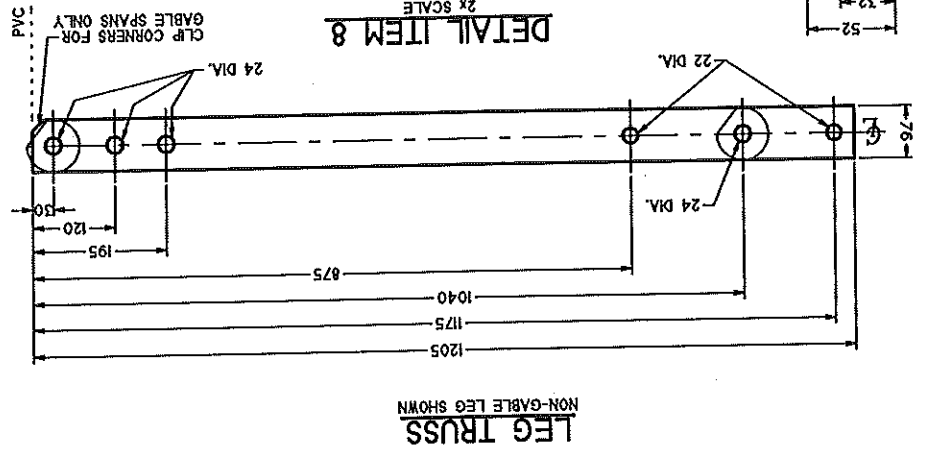
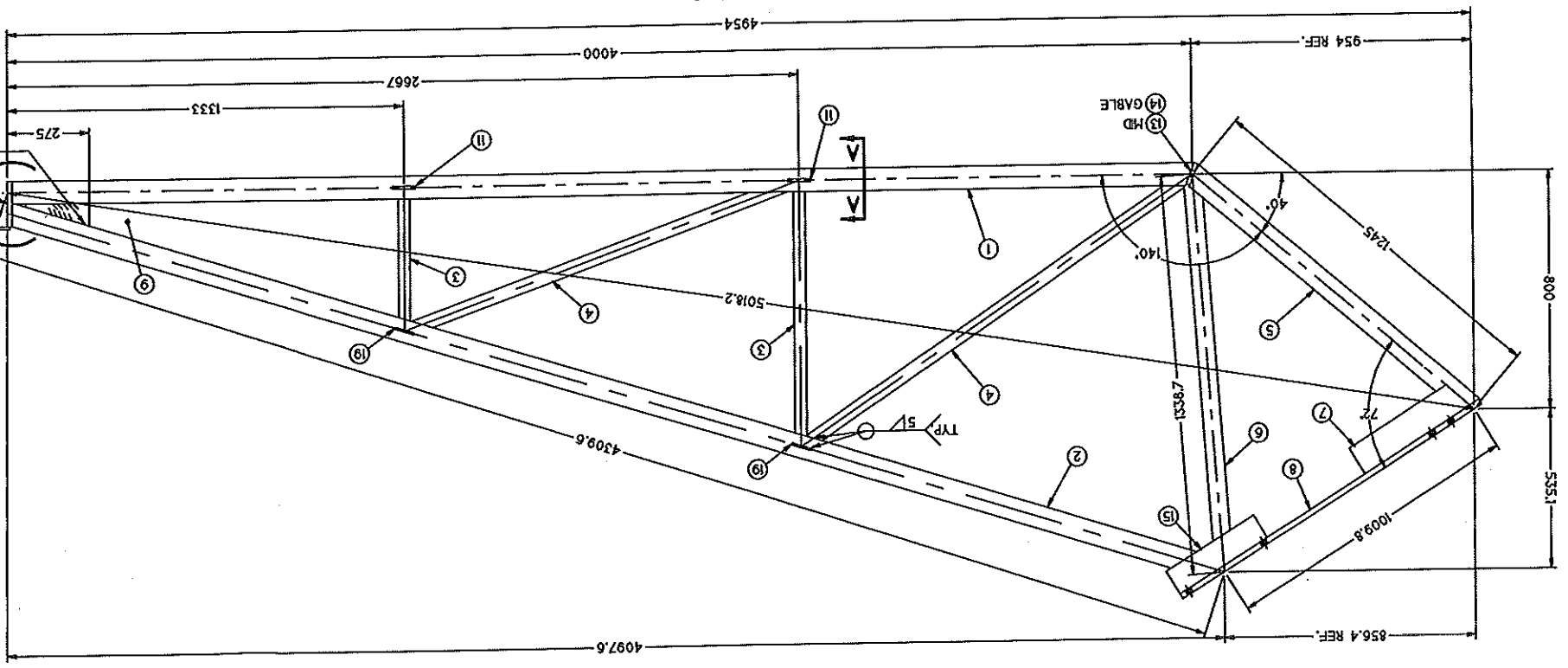
## "RUBB VI"

### 140'-0" x 380'-0" BVE BUILDING ATTACHED TO 75'-9" x 66'-8" BVE BUILDING

# MERRILL INDUSTRIES FRAME SUPPORTED MEMBRANE STRUCTURE MERRILL MARINE TERMINAL PORTLAND, ME

REV	DESCRIPTION	DATE
A	LEG TRUSS - 02039	29756
A	PEAK ROOF TRUSS - 02039	29757
C	NON-PEAK ROOF TRUSS - 02039	29758
C	LUG SCHEMATIC - 02039	29764
A	AXIAL STEEL - 02039	29765
A	PURLIN PROFILE - 02039	29774
-	WIND BRACING CABLE & NODE RESTRAINT ISOMETRIC - 02039	29804
-	SPAN PROFILE - 02038	36204
B	ANCHOR BOLT LAYOUT	36205
B	PLAN VIEW & ELEVATIONS	36206
A	ROOF TRUSS - 02038	36208
-	LOWER ROOF TRUSS - 02038	36209
-	LEG TRUSS - 02038	36210
-	WIND BRACING CABLE & NODE RESTRAINT ISOMETRIC - 02038	36215
-	BEAR GABLE STEEL LAYOUT - 02038	36216
-	INTERMEDIATE ROOF TRUSS - 02038	36219
-	NON-PEAK AXIAL STEEL - 02038	36227
A	ANCHOR BOLT DETAILS	36240

INDEX OF DRAWINGS

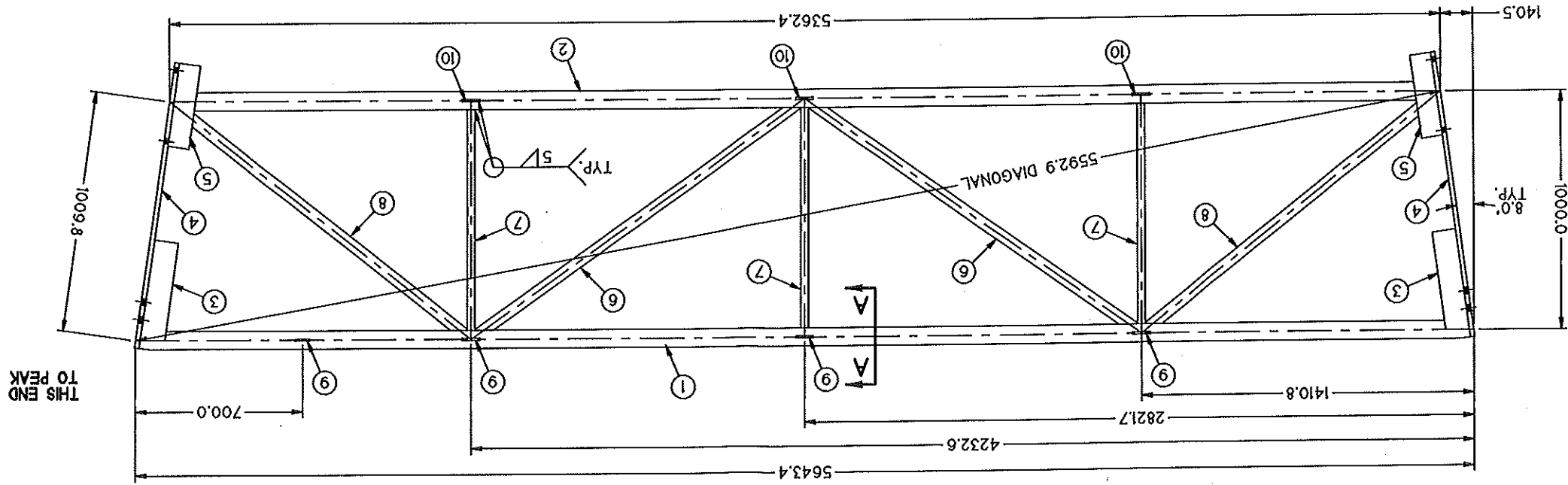


ITEM QTY.	DESCRIPTION	SPEC.	AMT.
1	TUBE 3/8" DIA. x 0.156"	A500B	60 KI.
2	TUBE 1/2" DIA. x 0.095"	A500B	60 KI.
3	TUBE 1/2" DIA. x 0.095"	A500B	60 KI.
4	TUBE 1/2" DIA. x 0.095"	A500B	60 KI.
5	TUBE 3/8" DIA. x 0.156"	A500B	60 KI.
6	TUBE 2 3/8" DIA. x 0.120"	A500B	50 KI.
7	FLAT 4" x 3/8" x 425	A36	50 KI.
8	FLAT 3" x 3/4" x 1205	A36	50 KI.
9	FLAT 3" x 3/16" x 214	A36	36 KI.
10	FLAT 6" x 5/8" x 224	A36	36 KI.
11	2/4 FLAT 3" x 5/8" x 57	A36	36 KI.
12	2 FLAT 3" x 1/4" x 90	A36	36 KI.
13	0/1 FLAT 3" x 1/2" x 230	A36	36 KI.
14	1/0 FLAT 3" x 1/2" x 133	A36	36 KI.
15	2 FLAT 3/2" x 3/8" x 350	A36	36 KI.
16	1 FLAT 2" x 3/8" x 224	A36	36 KI.
17	1 FLAT 4" x 3/8" x 165	A36	36 KI.
18	1 FLAT 6" x 5/8" x 224	A36	36 KI.
19	2/4 FLAT 2 1/2" x 1/4" x 52	A36	36 KI.

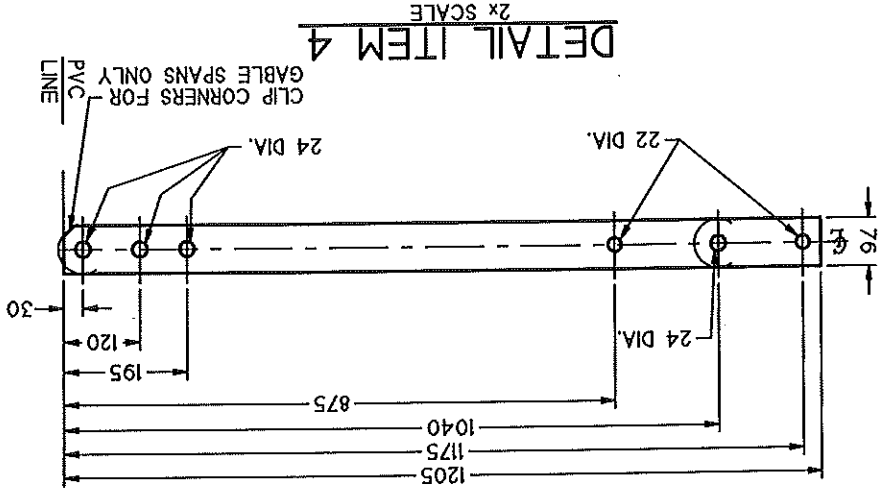
NOTES:  
 1) BREAK SHARP CORNERS FOR PVC.  
 2) SEE DRAWING 1006 FOR GENERAL WELD NOTES.  
 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY.  
 4) SEE STEEL LAYOUT FOR LOCATION.  
 5) ALL DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.  
 6) VENT ALL TUBES FOR GALVANIZING.

REV	DESCRIPTION	DATE
A	CHANGED ITEM #8 IN SECTION C-C TO ITEM #8	

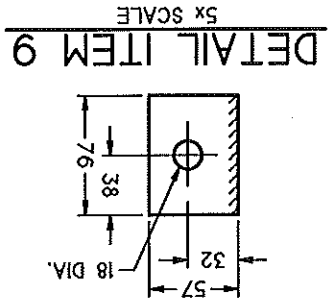
LEG TRUSS  
 23,088 BVE / 4th LEG  
**TRUSS**  
 BUILDING SYSTEMS  
 SSK 4-21-98  
 1:10  
 98020  
 SATELLITE SHELTERS  
 RUBB, INC. SARGENT HAME 04073  
 TEL: 207-324-2877 FAX 207-324-2347  
 29756



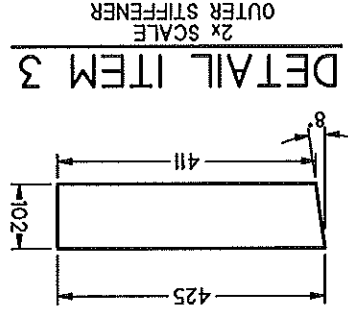
PEAK ROOF TRUSS



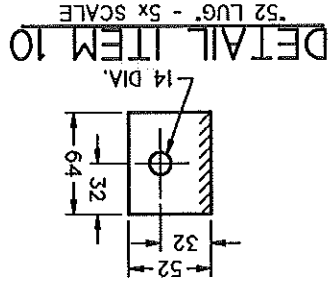
DETAIL ITEM 4  
2x SCALE



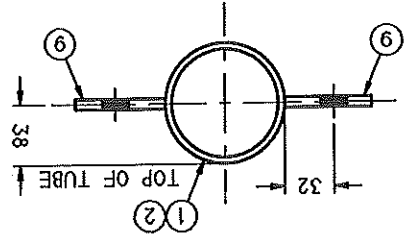
DETAIL ITEM 9  
5x SCALE



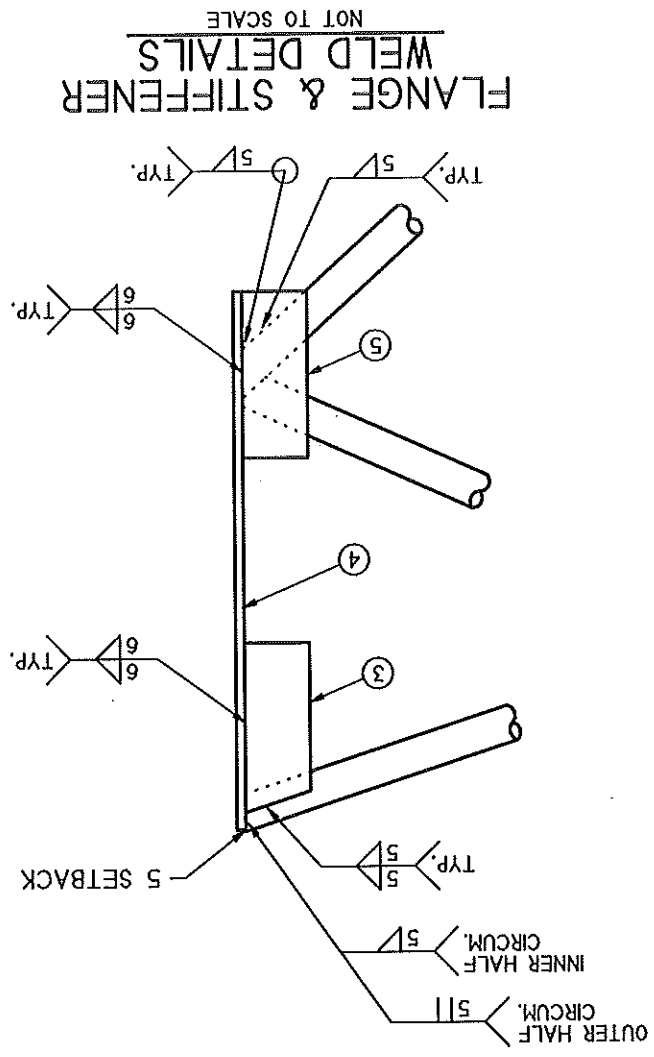
DETAIL ITEM 3  
2x SCALE



DETAIL ITEM 10  
5x SCALE



SECTION "A-A"  
5x SCALE



FLANGE & STIFFENER  
WELD DETAILS  
NOT TO SCALE

ITEM QTY.	DESCRIPTION	SPEC.	FY MIN.
1	TUBE 3" DIA. x 0.156"	A500B	50 ksi
2	TUBE 3" DIA. x 0.120"	A500B	50 ksi
3	FLAT 4" x 3/8" x 425"	A36	50 ksi
4	FLAT 3" x 3/4" x 1205"	A36	50 ksi
5	FLAT 3 1/2" x 3/8" x 350"	A36	50 ksi
6	TUBE 1.9" DIA. x 0.109"	A500B	50 ksi
7	TUBE 1.25" DIA. x 0.095"	A500B	50 ksi
8	TUBE 1.9" DIA. x 0.109"	A500B	50 ksi
9	FLAT 3" x 3/8" x 57"	A36	36 ksi
10	FLAT 2 1/2" x 1/4" x 52"	A36	36 ksi

- NOTES:
- 1) BREAK SHARP CORNERS FOR PVC.
  - 2) SEE DRAWING 11006 FOR GENERAL WELD NOTES.
  - 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY.
  - 4) SEE STEEL LAYOUT FOR LOCATION.
  - 5) ALL DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.
  - 6) VENT ALL TUBES FOR GALVANIZING.

REV	DESCRIPTION	DRAWN	APP.	DATE

We Cover The World  
**IRUBB**  
BUILDING SYSTEMS  
PEAK ROOF TRUSS  
23,088<sup>m</sup> BVE / 4<sup>m</sup> LEG

DATE: SKK 4-21-98  
SCALE: 1 : 15  
JOB #: 98020  
JOB NAME: SATELLITE SHELTERS  
DRAWING NO.: RUBB, INC. SANFORD MANE 04073  
TEL: 207-324-2877 FAX 207-324-2347

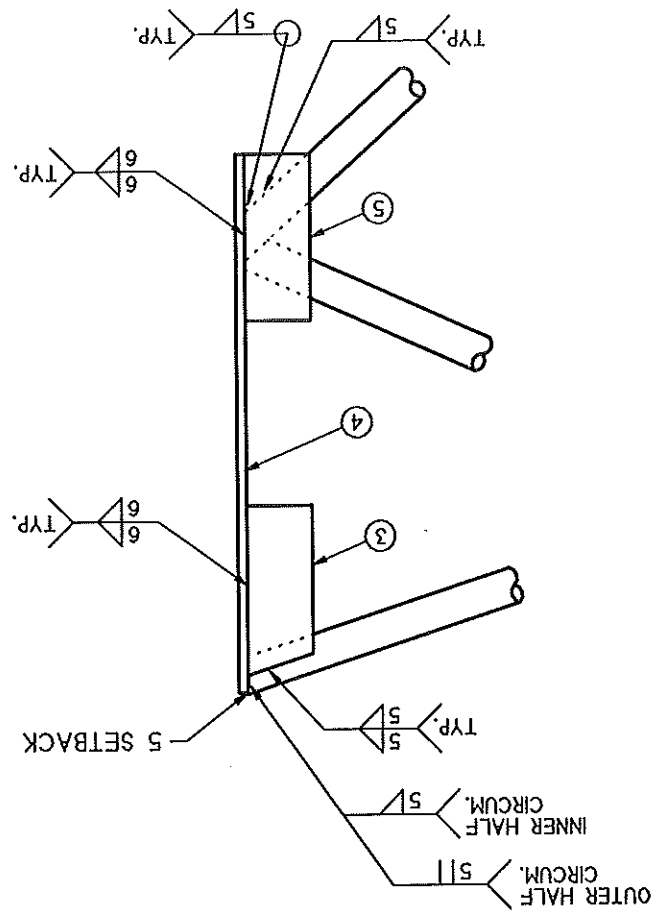
29757

REV	DESCRIPTION	DRAWN	APP.	DATE
<b>URBB</b> BUILDING SYSTEMS 23,088m BVE / 4m LEG NON-PEAK ROOF TRUSS We Cover The World				
SCALE	1 : 15	DATE	SKK 4-21-98	
APP.	JOB #	98020		
DATE	JOB NAME	SATELLITE SHELTERS		
ISSUED NO.	RUBB, INC. SANFORD MAINE 04073 TEL: 207-324-2877 FAX 207-324-2347			
29758	This drawing is the property of Rubb, Inc. and may not be reproduced or used for any purpose without the express written consent of Rubb, Inc.			

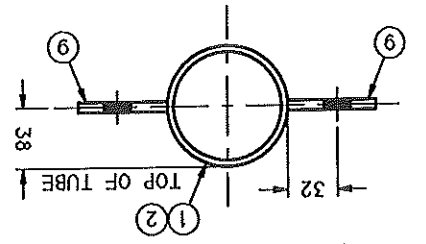
ITEM	QTY.	DESCRIPTION	SPEC.	FY. MIN.
1	1	TUBE 3 DIA. x 0.156	A5008	50 ksi
2	1	TUBE 3 DIA. x 0.156	A5008	50 ksi
3	2	FLAT 4 x 3/8 x 425	A36	50 ksi
4	2	FLAT 3 1/2 x 3/4 x 1205	A36	50 ksi
5	4	FLAT 3 1/2 x 3/8 x 350	A36	50 ksi
6	2	TUBE 2 3/8 DIA. x 0.12	A5008	50 ksi
7	3	TUBE 1.25 DIA. x 0.095	A5008	50 ksi
8	2	TUBE 2 3/8 DIA. x 0.156	A5008	50 ksi
9	3/6	FLAT 3 x 3/8 x 57	A36	36 ksi
10	3/6	FLAT 2 1/2 x 1/4 x 52	A36	36 ksi

NOTES:  
 1) BREAK SHARP CORNERS FOR PVC.  
 2) SEE DRAWING 11006 FOR GENERAL WELD NOTES.  
 3) BILL OF MATERIAL IS FOR ONE ASSEMBLY.  
 4) SEE STEEL LAYOUT FOR LOCATION.  
 5) ALL DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS.  
 6) VENT ALL TUBES FOR GALVANIZING.

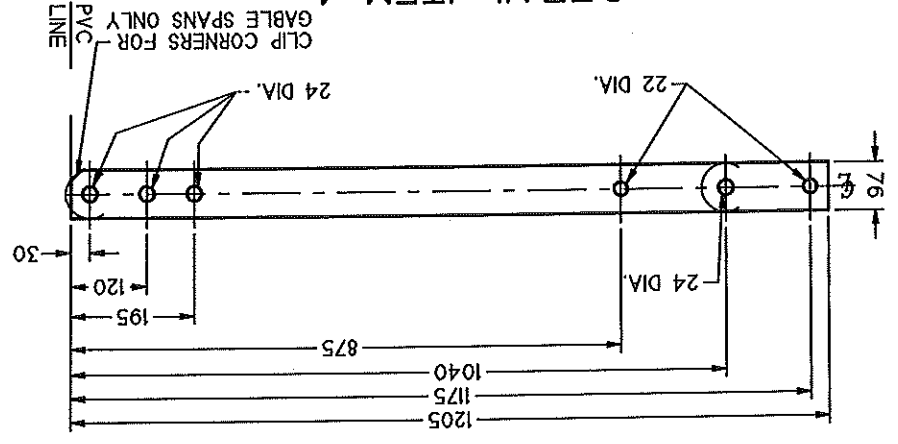
FLANGE & STIFFENER  
 WELD DETAILS  
 NOT TO SCALE



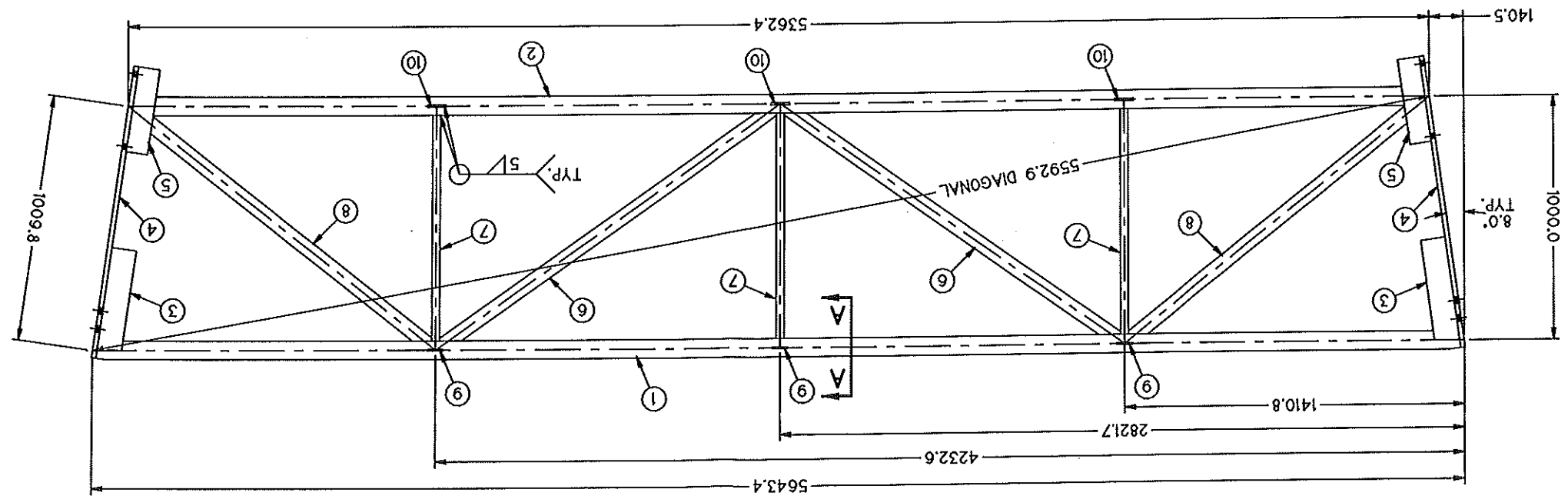
SECTION "A-A"  
 5x SCALE



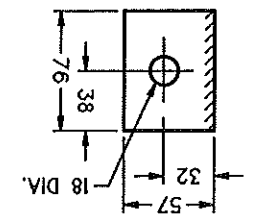
DETAIL ITEM 4  
 2x SCALE



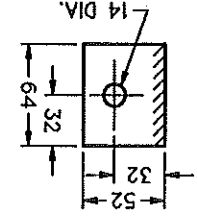
NON-PEAK ROOF TRUSS



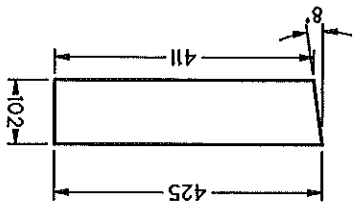
DETAIL ITEM 9  
 5x SCALE



DETAIL ITEM 10  
 5x SCALE



DETAIL ITEM 3  
 2x SCALE



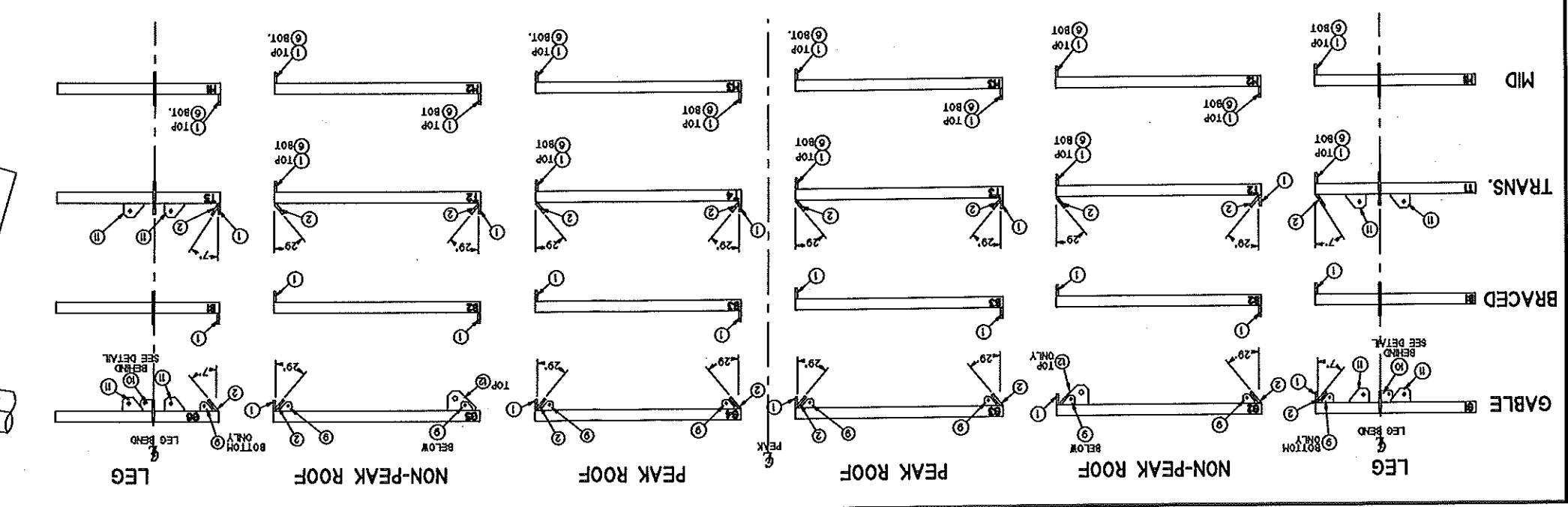
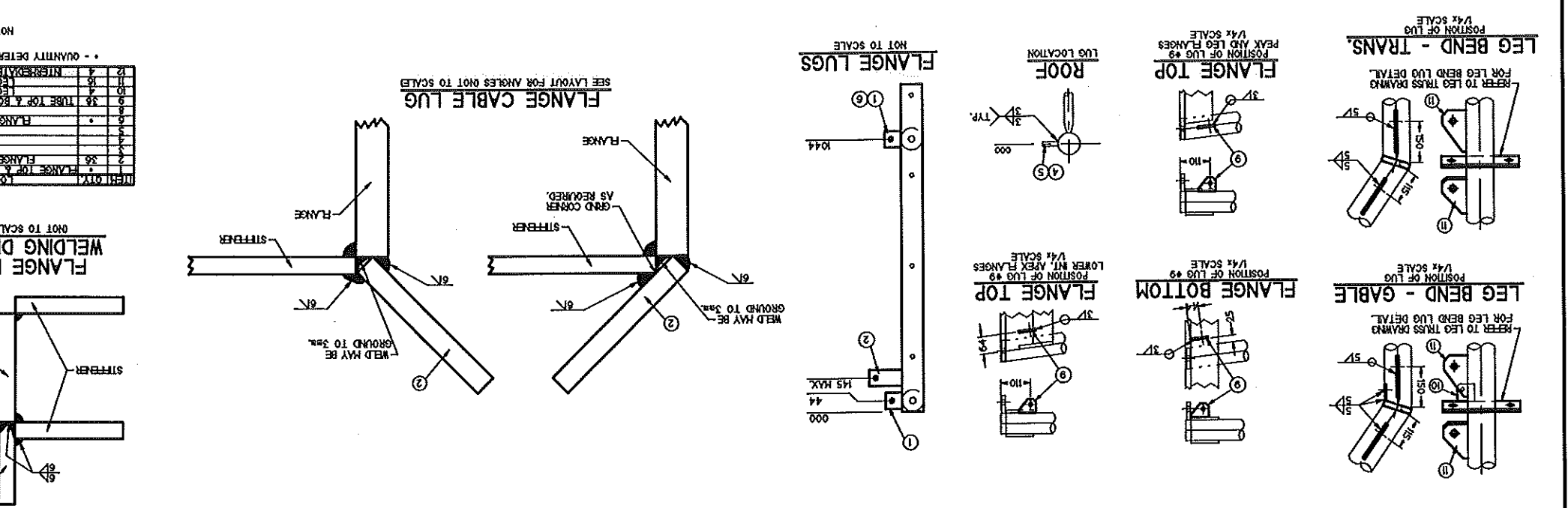
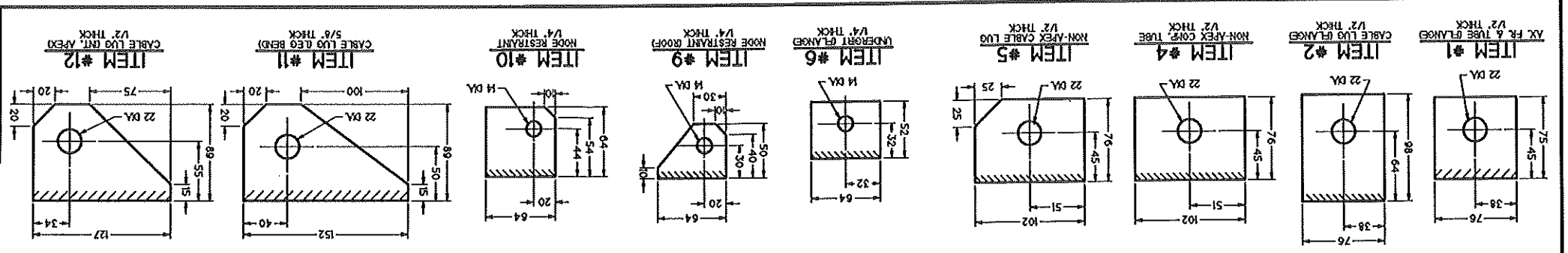
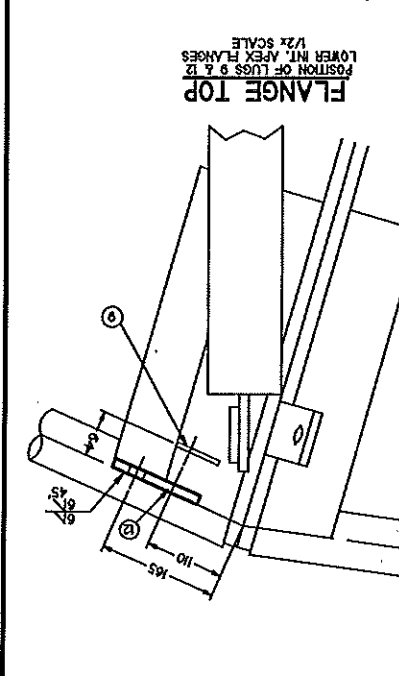
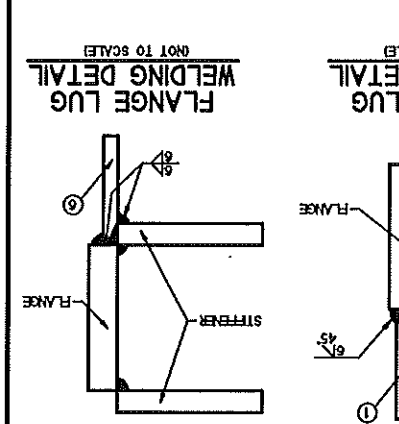
REV	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	11/1/74
2	REVISED PER COMMENTS FROM P.C.	11/15/74

REV	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	11/1/74
2	REVISED PER COMMENTS FROM P.C.	11/15/74

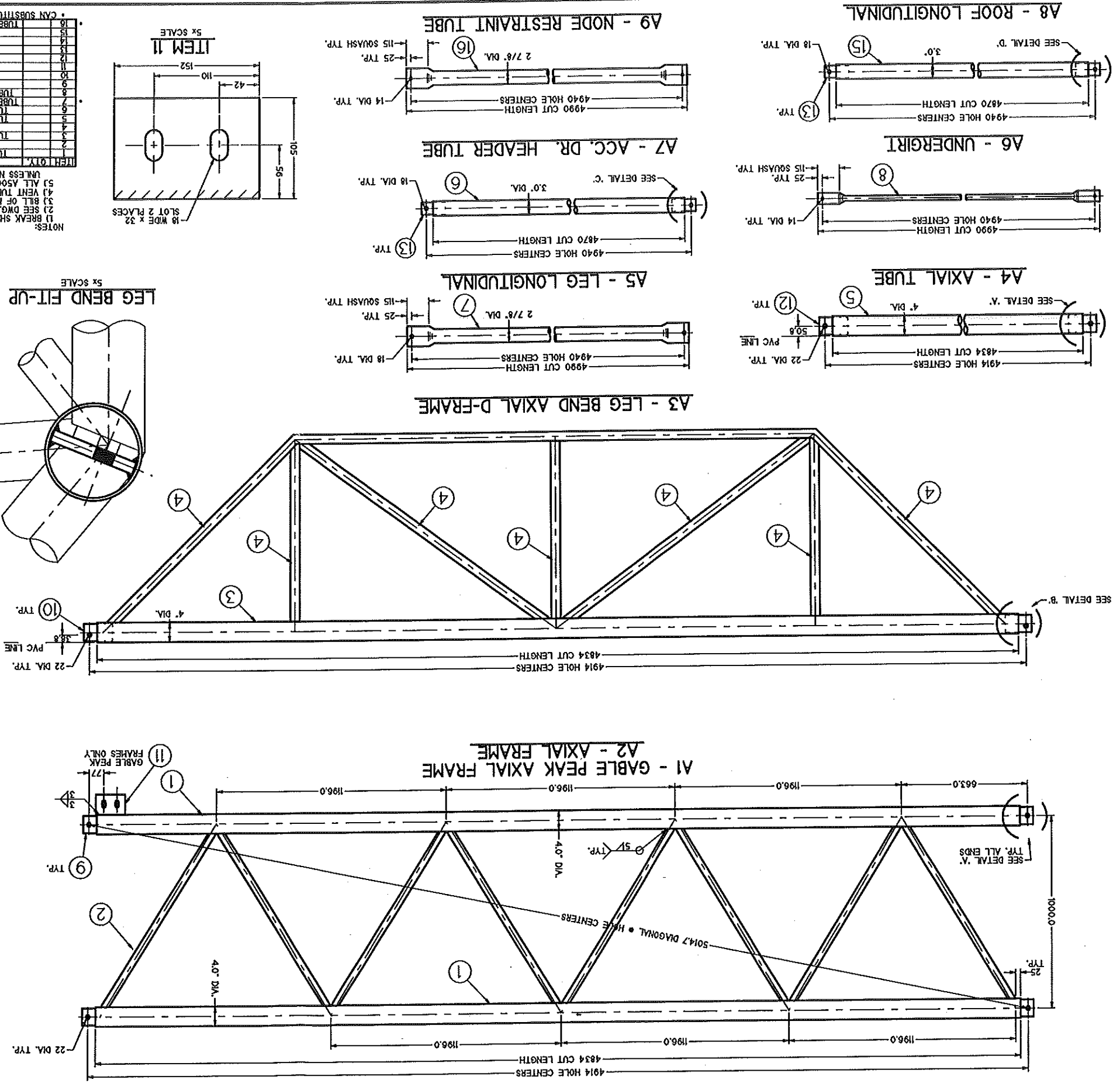
**RUBB**  
 BUILDING SYSTEMS  
 2308th AVE / 4th LEG  
 LUG SCHEMATIC - 2 BAY X-BRACED

ITEM #	DESCRIPTION	QTY	UNIT
1	FLANGE TOP & BOT. (UNLESS NOTED)	4	EA
2	FLANGE TOP ONLY	4	EA
3	FLANGE BOTTOM	4	EA
4	FLANGE TOP & BOT. (UNLESS NOTED)	4	EA
5	FLANGE TOP ONLY	4	EA
6	FLANGE BOTTOM	4	EA
7	FLANGE TOP & BOT. (UNLESS NOTED)	4	EA
8	FLANGE TOP ONLY	4	EA
9	FLANGE BOTTOM	4	EA
10	LEG BEND	4	EA
11	LEG BEND	4	EA
12	LEG BEND	4	EA
13	LEG BEND	4	EA
14	LEG BEND	4	EA
15	LEG BEND	4	EA
16	LEG BEND	4	EA
17	LEG BEND	4	EA
18	LEG BEND	4	EA
19	LEG BEND	4	EA
20	LEG BEND	4	EA



NOTES:  
 1) SEE DWG. 20757 & 20758 FOR ROOF TRUSS DETAILS.  
 2) SEE DWG. 20756 FOR LEG TRUSS DETAILS.  
 3) SEE DWG. 10006 FOR GEL WELDING NOTES.  
 4) BREAK SHARP CORNERS FOR P.C.

--- QUANTITY DETERMINED BY LENGTH OF BUILDING.



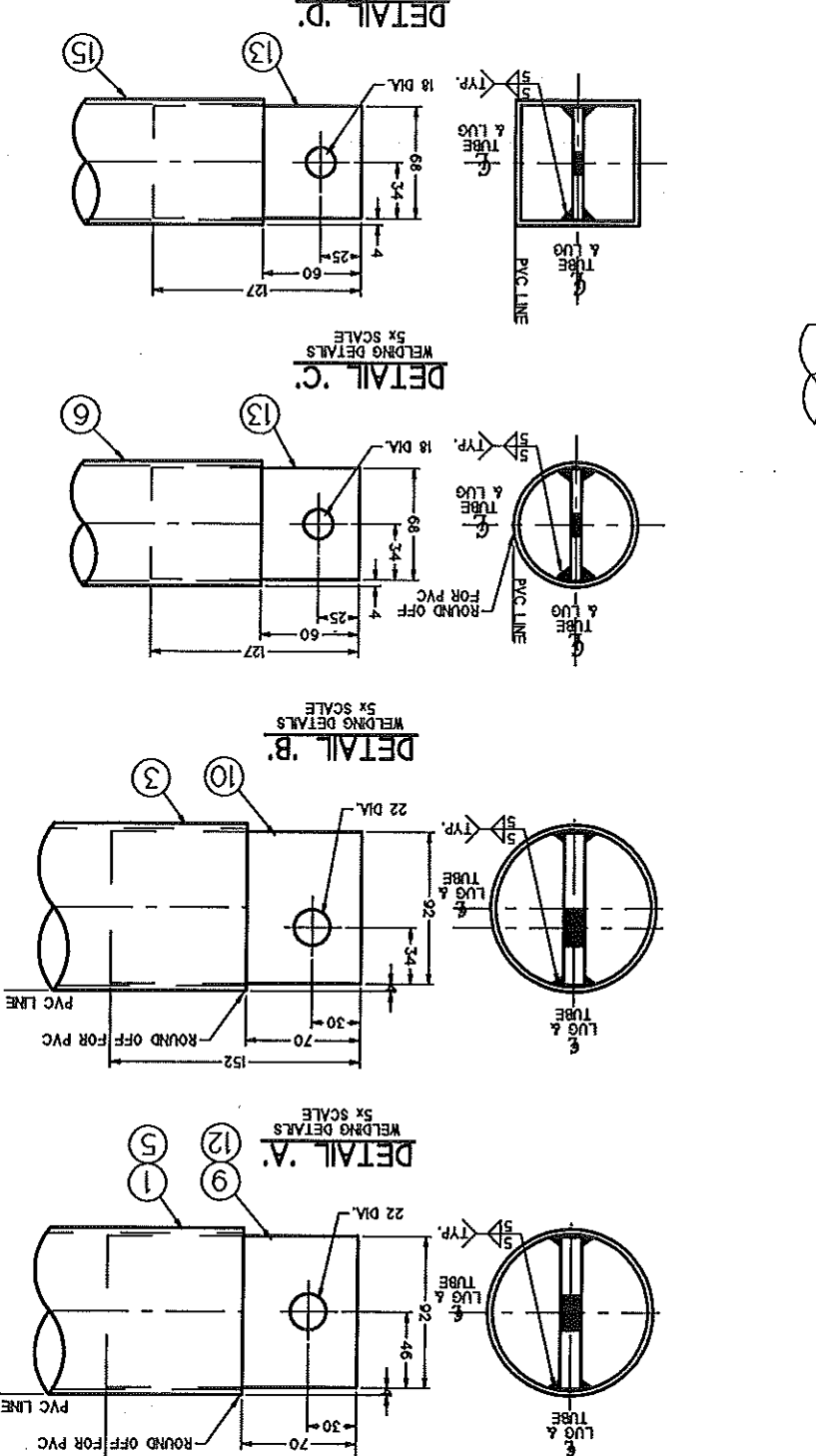
ITEM QTY.	DESCRIPTION	SPCC
1	TUBE 4 DIA. X 0.125 X 4834	A5008
2	TUBE 4 DIA. X 0.095 X 4834	A5008
3	TUBE 4 DIA. X 0.134 X 4834	A5008
4	TUBE 19 DIA. X 0.109	A5008
5	TUBE 3 DIA. X 0.125 X 4834	A5008
6	TUBE 3 DIA. X 0.120 X 4870	A5008
7	TUBE 2 7/8 DIA. X 0.120 X 4990	A5008
8	TUBE 13/1 DIA. X 0.083 X 4990	A5008
9	FLAT 6 X 1/2 X 92	A36
10	FLAT 6 X 1/2 X 92	A36
11	FLAT 6 X 3/8 X 105	A36
12	FLAT 6 X 1/2 X 92	A36
13	FLAT 5 X 1/4 X 68	A36
14	FLAT 5 X 1/4 X 48	A36
15	IS 3 X 3 X 1/8 X 4870	A5008 60 KI
16	TUBE 2 7/8 DIA. X 0.120 X 4990	A5008

NOTES:  
 1) BREAK SHARP CORNERS FOR PVC.  
 2) SEE DWG. HOOD FOR GEN. WELD NOTES.  
 3) BILL OF MATERIALS DOES NOT REFLECT QUANTITY.  
 4) VENT TUBES FOR GALVANIZING.  
 5) ALL A5008 MATERIAL TO BE F-Y-50 KSI MIN.  
 UNLESS NOTED OTHERWISE.

REV.	DESCRIPTION	DATE	BY	CHK
A	ASSEMBLY			

23,088A BVE / 4th LEG  
 AXIAL STEEL  
 BUILDING SYSTEMS  
 10'-0" BAY SPACING

REB, INC. BAYFRONT HOME 04073  
 TEL: 207-244-2207 FAX: 207-244-2347  
 29765

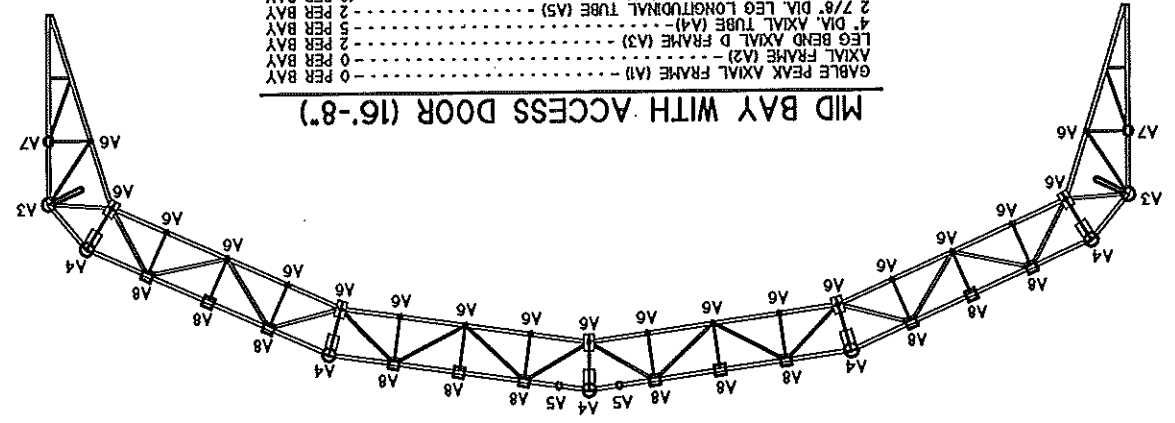


### BOLTING SCHEDULE

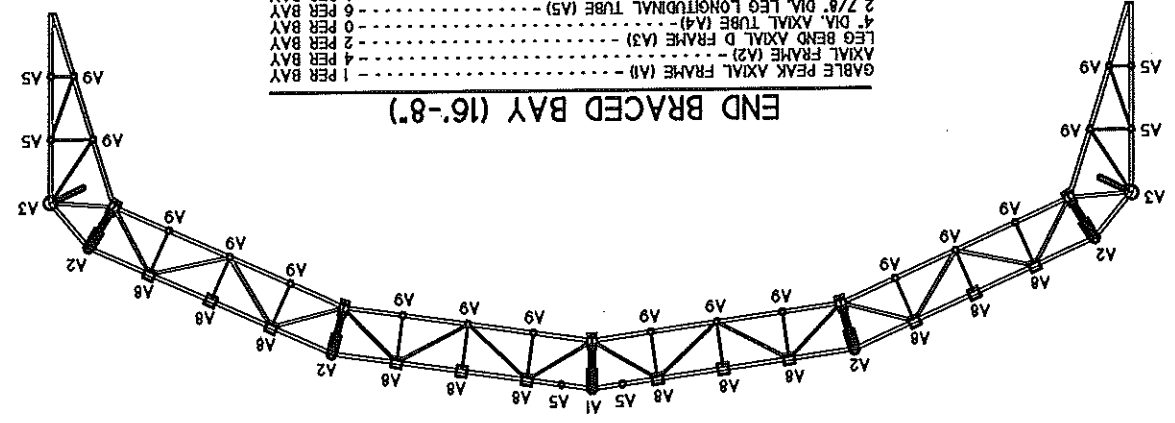
AXIAL FRAMES (A1 & A2)	3/4 DIA. x 2 1/4' A325
LEG BEND AXIAL D FRAME (A3)	3/4 DIA. x 2 1/4' A325
4 DIA. AXIAL TUBE (A4)	3/4 DIA. x 2 1/4' A325
2 7/8 DIA. LEG LONGITUDINAL TUBE (A5)	5/8 DIA. x 1 3/4' A325
1 3/4 DIA. UNDERGIRT TUBE (A6)	1/2 DIA. x 1 1/2' GRADE 2
3 DIA. ACCESS DOOR HEADER (A7)	5/8 DIA. x 1 3/4' A325
3' x 3' ROOF LONGITUDINAL (A8)	5/8 DIA. x 1 3/4' A325
2 7/8 DIA. NODE RESTRAINT TUBE (A9)	1/2 DIA. x 1 1/2' GRADE 2

REV	DESCRIPTION	DRAWN	APP.	DATE
SCALE	AR 4-28-98	1 : 75	This drawing is the property of IRBB, Inc. and may not be reproduced or used for any other project without the written consent of IRBB, Inc.	
DWG NO.	98020	IRBB, INC. SANFORD HANE 04073 TEL 207-324-2277 FAX 207-324-2347 29774		

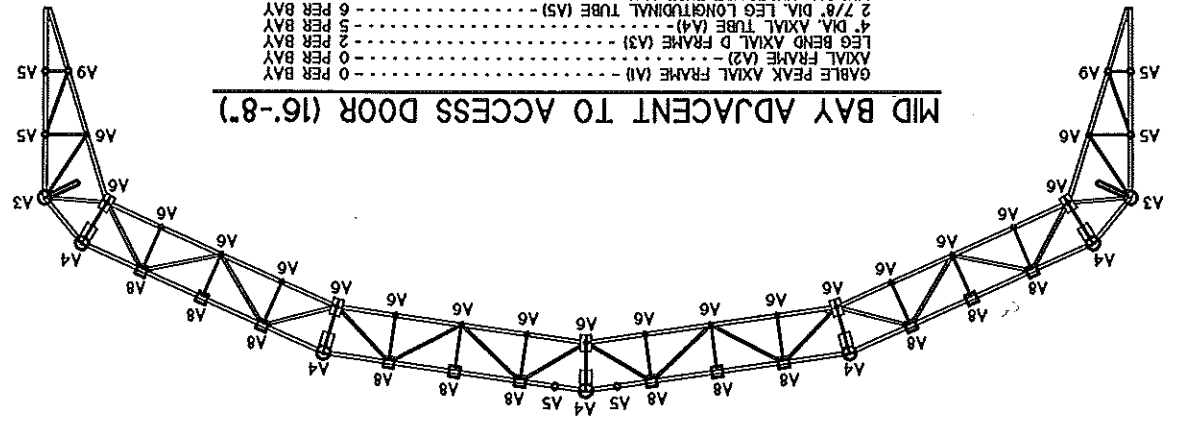
**MID BAY WITH ACCESS DOOR (16'-8")**



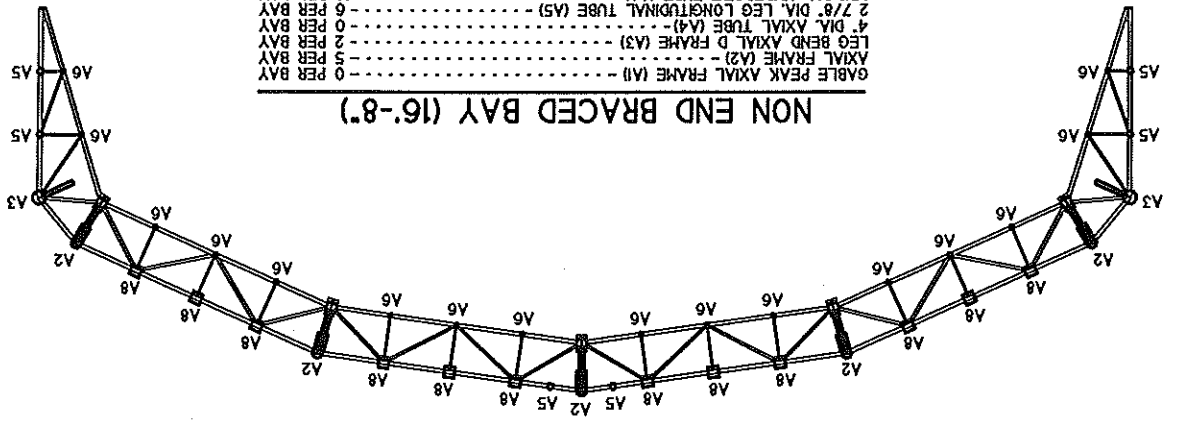
**END BRACED BAY (16'-8")**



**MID BAY ADJACENT TO ACCESS DOOR (16'-8")**



**NON END BRACED BAY (16'-8")**

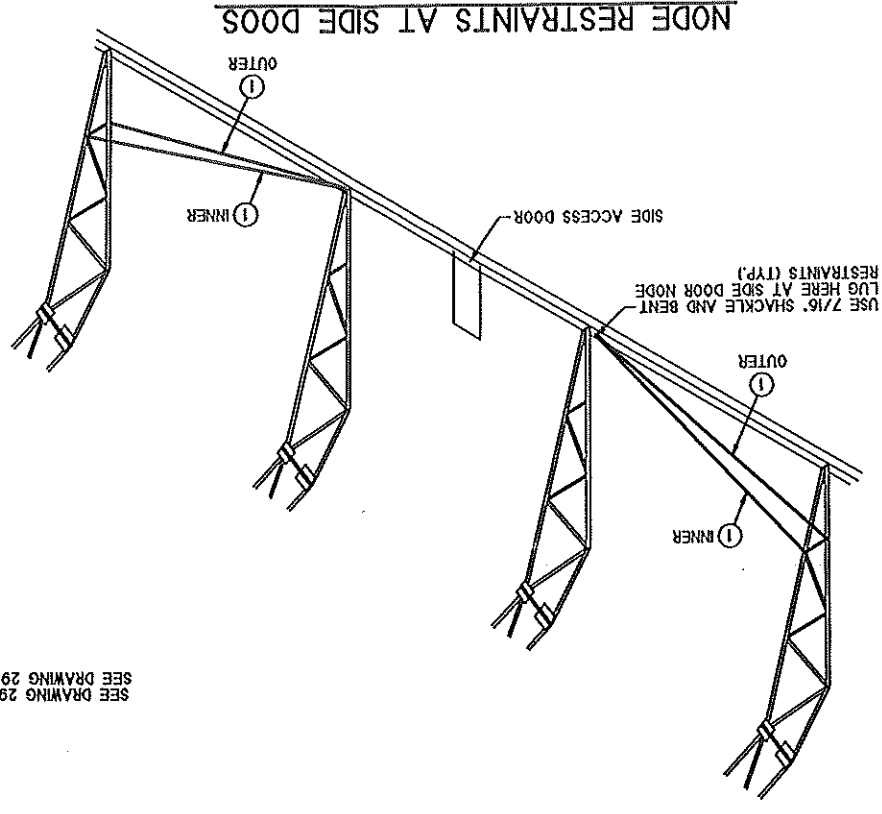
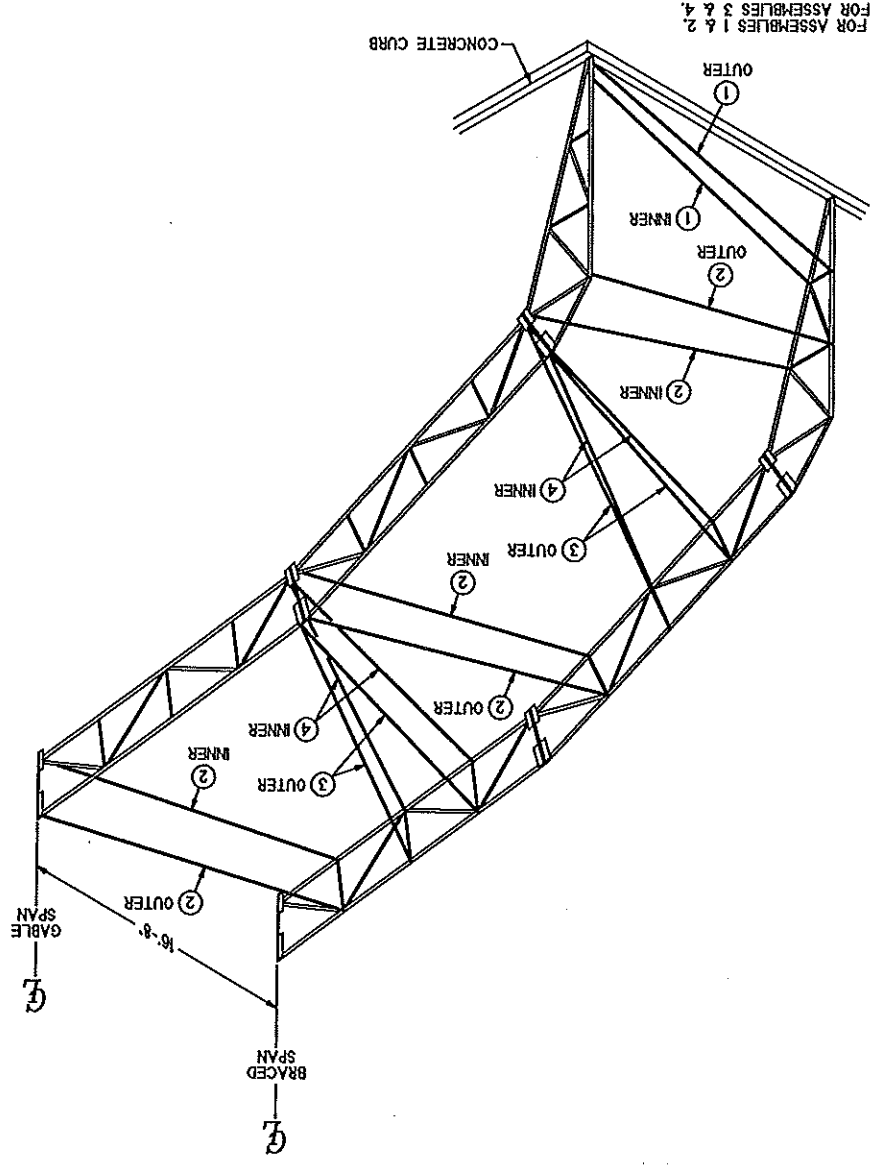


AXIAL FRAME (A1)	0 PER BAY
LEG BEND AXIAL D FRAME (A2)	0 PER BAY
4 DIA. AXIAL TUBE (A4)	2 PER BAY
2 7/8 DIA. LEG LONGITUDINAL TUBE (A5)	6 PER BAY
1 3/4 DIA. UNDERGIRT TUBE (A6)	16 PER BAY
3 DIA. ACCESS DOOR HEADER (A7)	0 PER BAY
3' x 3' ROOF LONGITUDINAL (A8)	12 PER BAY
2 7/8 DIA. NODE RESTRAINT TUBE (A9)	2 PER BAY

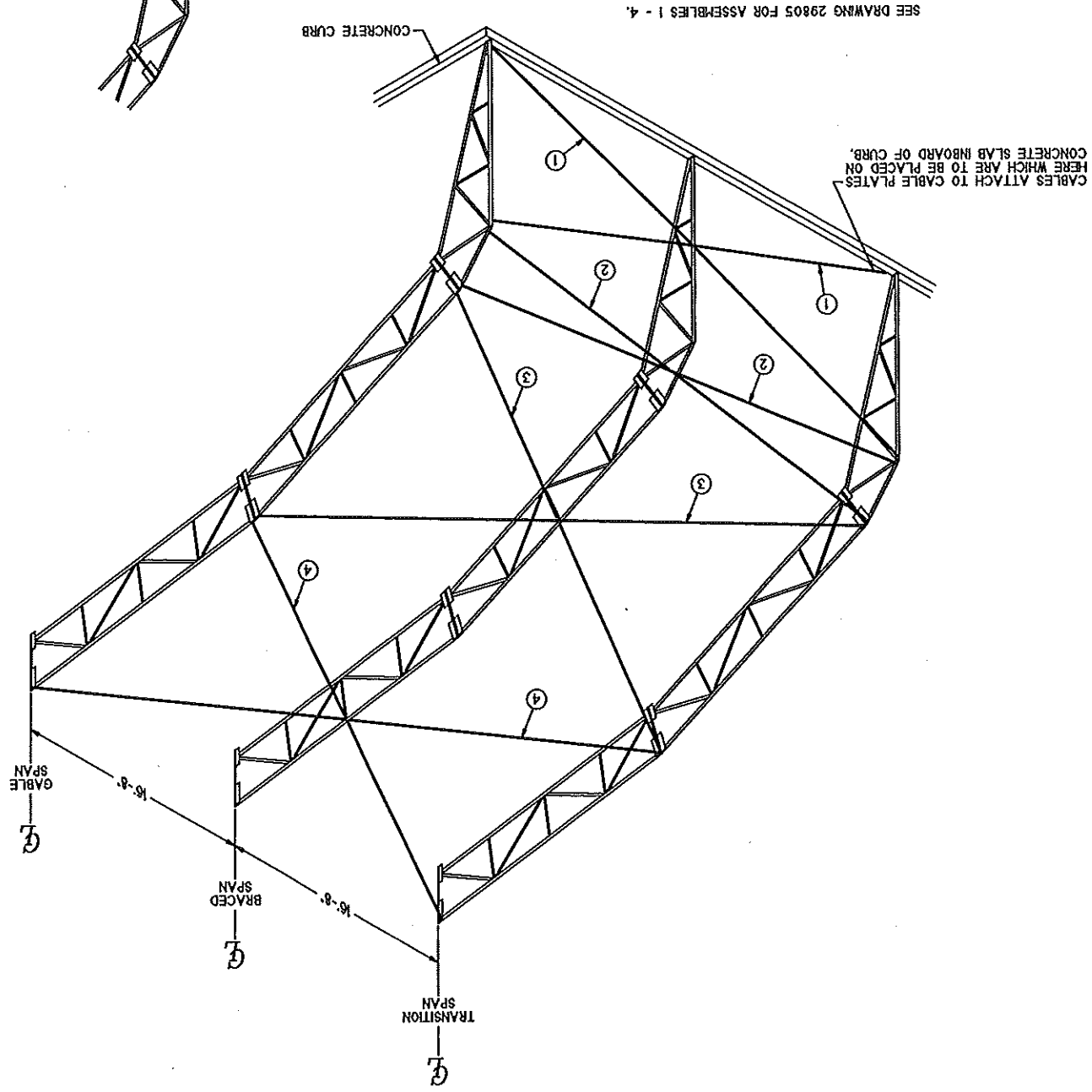
AXIAL FRAME (A1)	0 PER BAY
LEG BEND AXIAL D FRAME (A2)	1 PER BAY
4 DIA. AXIAL TUBE (A4)	2 PER BAY
2 7/8 DIA. LEG LONGITUDINAL TUBE (A5)	6 PER BAY
1 3/4 DIA. UNDERGIRT TUBE (A6)	16 PER BAY
3 DIA. ACCESS DOOR HEADER (A7)	0 PER BAY
3' x 3' ROOF LONGITUDINAL (A8)	12 PER BAY
2 7/8 DIA. NODE RESTRAINT TUBE (A9)	0 PER BAY

REV	DESCRIPTION	DRAWN	APP.	DATE
<b>URUBB</b> BUILDING SYSTEMS WIND BRACING CABLE AND NODE RESTRAINT ISOMETRIC 23 2nd BVE / 4th LEG No Cover The World				
DATE	DESCRIPTION	SCALE	NO.	DATE
29804	SAFETY SHEETS	1:100	98020	AR 5-4-98
HUBB INC. SANFORD HAME 04073 TEL: 207-324-2877 FAX: 207-324-2347 23rd BVE / 4th LEG copyright © Hubb, Inc. This drawing is the property of Hubb, Inc. and may not be reproduced or used for any other project without the express written consent of Hubb, Inc.				

**NODE RESTRAINT ISOMETRIC**

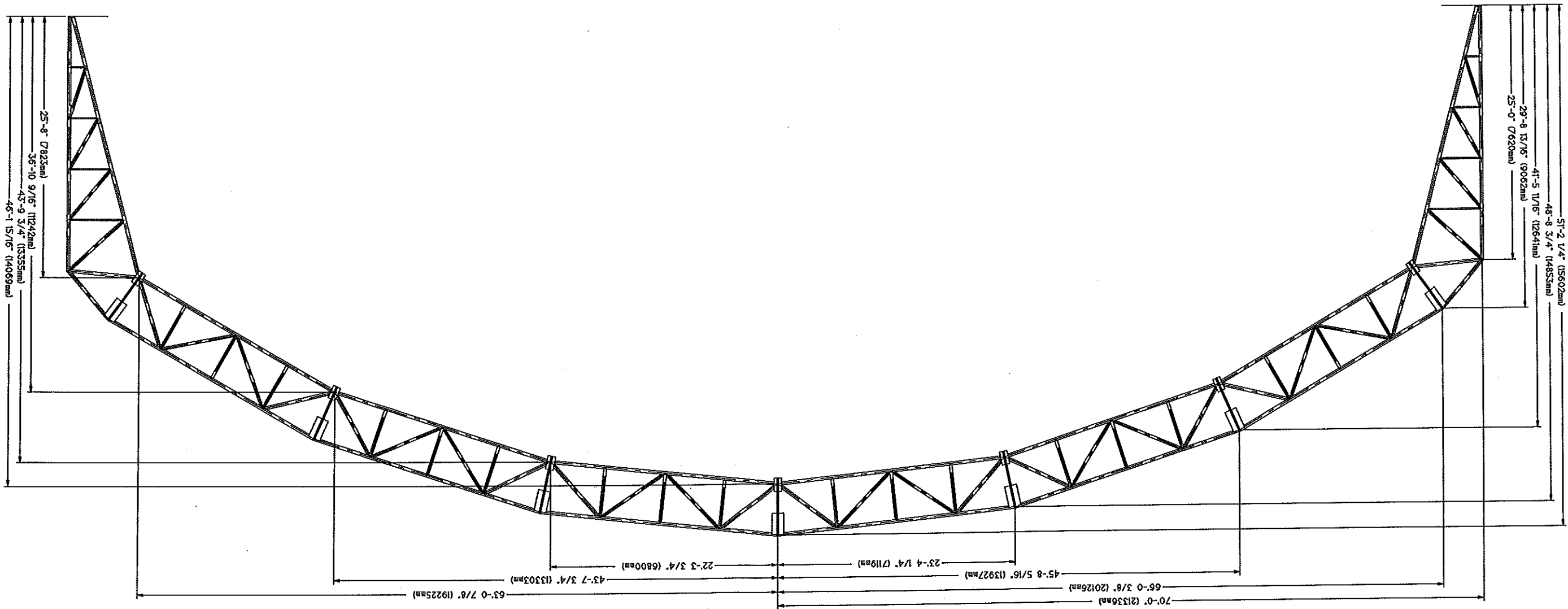


**WIND BRACING ISOMETRIC**





SPAN PROFILE



REV	DESCRIPTION	DRAWN	APP.	DATE
No Cover The World <b>IRUBB</b> BUILDING SYSTEMS 4268a BVE / 7.62m LEG SPAN PROFILE				
This drawing is the property of IRUBB, Inc. and may not be reproduced or used for any other purpose without the written consent of IRUBB, Inc.				
DATE	NO.	REV.		
HERRILL INDUSTRIES	02038	1 : 60	HJG 3-12-02	
IRUBB, INC. SAVERIO HANE 04073 TEL 207-524-2077 FAX 207-524-2347 36204				

TYPE	AB	VA	WB	WV	WZ
1/2" DIA. STD. 1/4" THICK	1/2" DIA. STD. 1/4" THICK	1/2" DIA. STD. 1/4" THICK	1/2" DIA. STD. 1/4" THICK	1/2" DIA. STD. 1/4" THICK	1/2" DIA. STD. 1/4" THICK
3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK
3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK
3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK
3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK	3/8" DIA. STD. 1/4" THICK

**ANCHOR BOLT SCHEDULE**

1) THE FORCES IN 'V' ARE FOR ONE BAY LENGTH. THE LATERAL LOAD AND DOWNWARD LOAD IS A POINT LOAD AT EACH COLUMN. THE UPLIFT IS A DISTRIBUTED LOAD ALONG THE ENTIRE BAY LENGTH.

2) FORCES IN 'H', 'L' & 'A' ARE ALL POINT LOADS AT SPAN OR COLUMN LOCATIONS INDICATED.

NOTES:

1) THE FORCES IN 'V' ARE FOR ONE BAY LENGTH. THE LATERAL LOAD AND DOWNWARD LOAD IS A POINT LOAD AT EACH COLUMN. THE UPLIFT IS A DISTRIBUTED LOAD ALONG THE ENTIRE BAY LENGTH.

2) FORCES IN 'H', 'L' & 'A' ARE ALL POINT LOADS AT SPAN OR COLUMN LOCATIONS INDICATED.

WIND: Fz - 10.8k LATERAL (MAX)

J36, K36, M6, M36, 036, P36

C36, E6, E36, G36, H36, I6, I36

**VI) END WALL LOCATIONS AT GABLE COLUMNS B6, B36**

DEAD + GABLE WIND + LIVE: Fx = 0.4k LATERAL, Fy = 12.2k NET UPLIFT

OR:

Fx = 0.4k LATERAL, Fy = 14.6k LATERAL

DEAD + LIVE: Fx = 19.8k LATERAL, Fy = 31.8k DOWN

DEAD + SIDE WIND: Fx = 10.6k LATERAL, Fy = 18.5k NET UPLIFT

**V) AT GRID LOCATIONS A6, A8, A20, A22, A34, A36, Q6**

DEAD + GABLE WIND + LIVE: Fx = 0.4k LATERAL, Fy = 12.2k NET UPLIFT

OR:

Fx = 0.4k LATERAL, Fy = 14.6k LATERAL

DEAD + LIVE: Fx = 19.8k LATERAL, Fy = 31.8k DOWN

DEAD + SIDE WIND: Fx = 10.6k LATERAL, Fy = 18.5k NET UPLIFT

**III) END WALL LOCATIONS AT GABLE COLUMNS F1, I1, L1**

DEAD + GABLE WIND + LIVE: Fx = 1.0k LATERAL, Fy = 4.8k NET UPLIFT

OR:

Fx = 1.0k LATERAL, Fy = 9.7k LATERAL

DEAD + LIVE: Fx = 18.4k LATERAL, Fy = 24.0k DOWN

DEAD + SIDE WIND: Fx = 3.3k LATERAL, Fy = 7.9k NET UPLIFT

**II) ALONG GRID LINES D & N**

DEAD + LIVE: Fx = 18.4k LATERAL, Fy = 24.0k DOWN

DEAD + SIDE WIND: Fx = 3.3k LATERAL, Fy = 7.9k NET UPLIFT

Fz - ACROSS SPANS

Fy - VERTICAL

Fx - ALONG BUILDING LENGTH

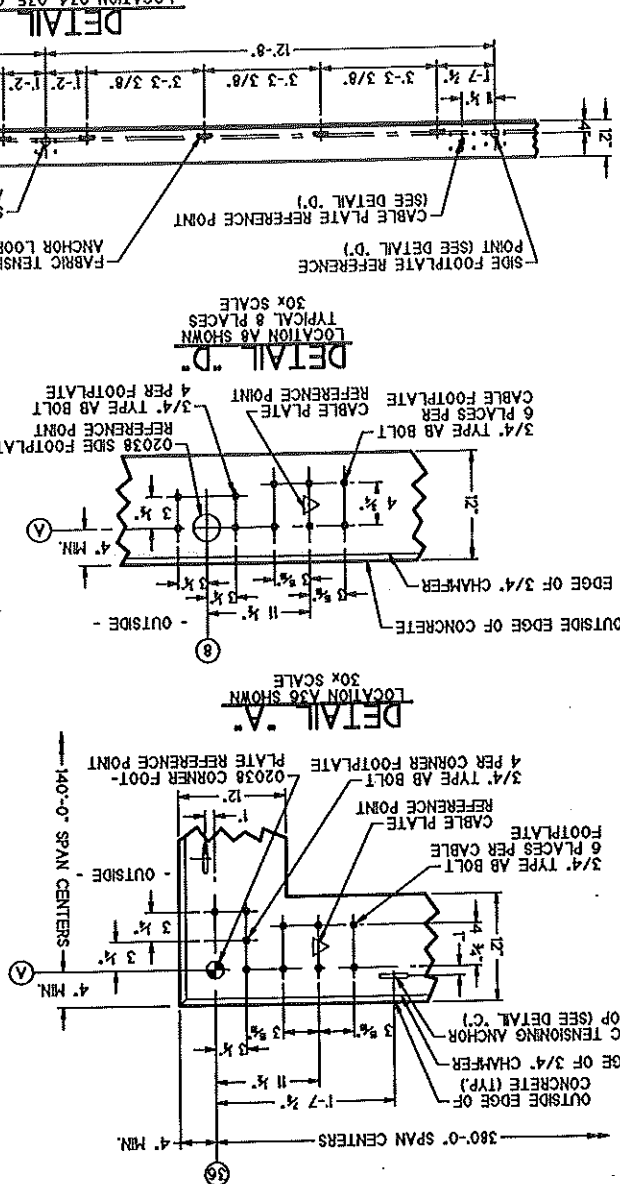
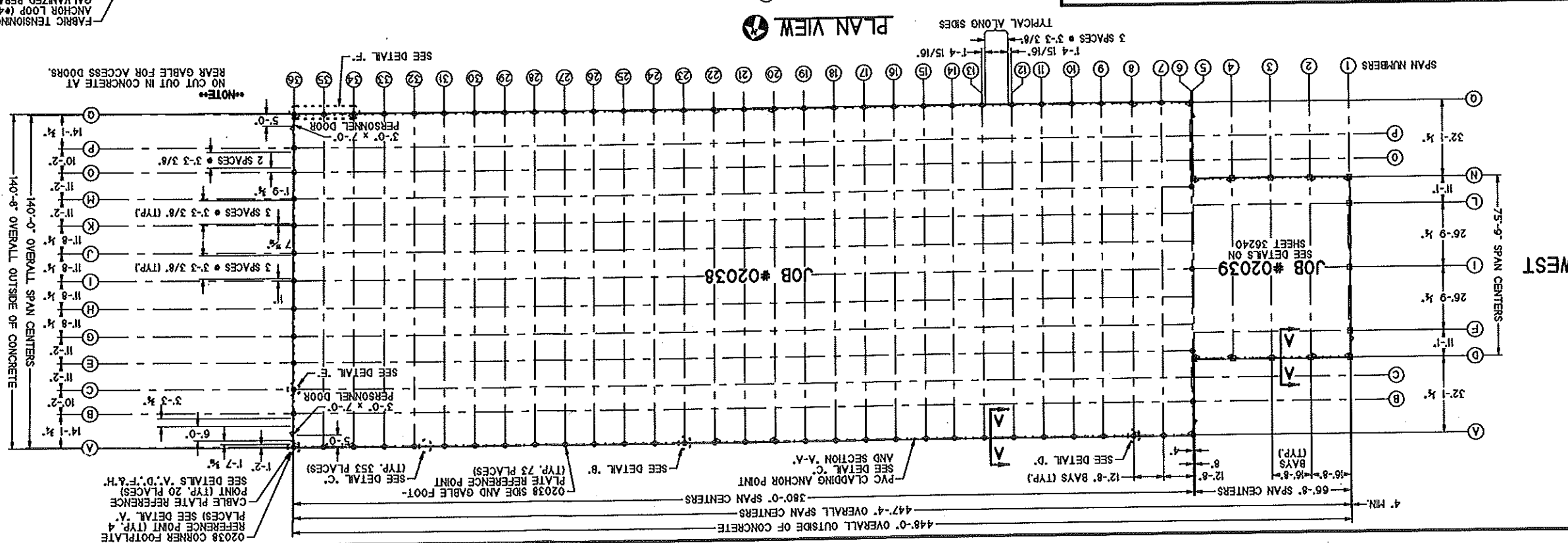
THE FOLLOWING ARE THE WORST CASE RESULTANT FORCES OUT OF ALL THE CODE REQUIRED LOAD CASE COMBINATIONS:

1999 BOCA BUILDING CODE

50 psf GROUND SNOW LOAD

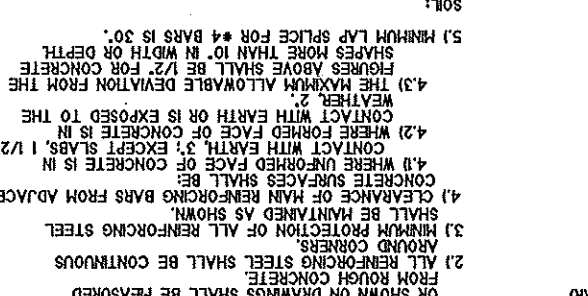
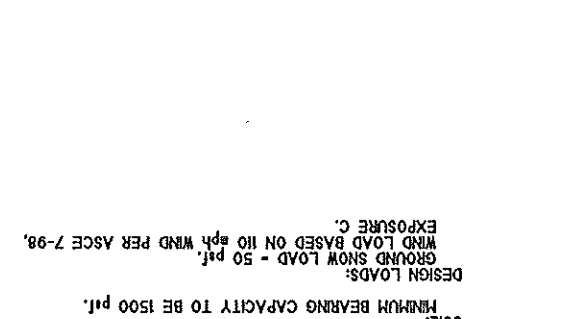
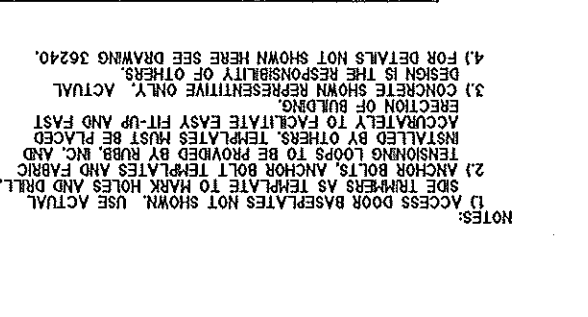
110 mph WIND EXPOSURE C

**FOUNDATION FORCES: (WORST CASES)**



REV.	DESCRIPTION	BY	CHK	DATE
B	REVISED ACCESS DOOR LOCATION	JAS	NR	3-28-02
A	REVISED BAY SPACING	JAS	NR	3-28-02

36205	REVISIONS: REVISION NO. 1 REVISION DATE 3-28-02 REVISION BY JAS REVISION DESCRIPTION REVISED BAY SPACING
	PROJECT INFORMATION: PROJECT NO. 02038 / 02039 PROJECT TITLE 42.88B BVE / 7.62H LEG ANCHOR BOLT LAYOUT - RUBB VI
	DATE 03-11-02 SCALE 1:300 DRAWN BY JAS CHECKED BY NR PROJECT NO. 02038 / 02039



**GENERAL:**

DURING CONSTRUCTION, TEMPORARY BRACING AND/OR SHORING SHALL BE PROVIDED WHERE NECESSARY TO RESIST ALL LOADS TO WHICH THE STRUCTURE UNDER CONSTRUCTION, AS WELL AS EXISTING STRUCTURES, MAY BE SUBJECTED TO. THESE LOADS SHALL INCLUDE, BUT NOT BE LIMITED TO, EQUIPMENT AND THE OPERATION OF SAME. ADEQUACY OF SHORING TO RESIST THESE LOADS IS THE CONTRACTOR'S RESPONSIBILITY.

**CODES AND SPECIFICATIONS (LATEST EDITIONS):**

1) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)

2) BUILDING CODE REQUIREMENTS FOR STRUCTURAL STEEL (AISC 360)

3) ALLOWABLE STRESS DESIGN (ASD) - PERMISSIBLE STRESS DESIGN (MSD)

4) MANUAL OF STANDARD PRACTICE CONCRETE REINFORCEMENT STEEL INSTITUTE (CRSI)

**BASIS FOR ALLOWABLE DESIGN STRESSES:**

1) ALL CAST IN PLACE CONCRETE UNLESS OTHERWISE NOTED: f'c = 3000 psi MINIMUM

2) MAIN REINFORCING STEEL: ASTM A615, GRADE 60 OR 65

3) WELDED WIRE FABRIC (PLAN): ASTM A185

4) WELDING: ALL WELDING ELECTRODES: AWS E70.

**ANCHOR BOLTS:**

1) 5/8" DIA. ANCHOR BOLTS TO PROTRUDE A MINIMUM OF 2" FROM CONCRETE SURFACE.

2) 3/4" DIA. ANCHOR BOLTS TO PROTRUDE 2 1/2" MINIMUM FROM CONCRETE SURFACE.

3) 7/8" DIA. ANCHOR BOLTS TO PROTRUDE 3" MINIMUM FROM CONCRETE SURFACE.

**CAST IN PLACE CONCRETE AND REINFORCING:**

1) ALL ANCHOR BOLTS ARE TO BE SET WITH TEMPLATES. ANCHOR BOLT PROJECTIONS NOTED OR SHOWN ON DRAWINGS SHALL BE MEASURED FROM ROUGH CONCRETE.

2) ALL REINFORCING STEEL SHALL BE CONTINUOUS AROUND CORNERS.

3) MINIMUM PROTECTION OF ALL REINFORCING STEEL SHALL BE MAINTAINED AS SHOWN.

4) CLEARANCE OF MAIN REINFORCING BARS FROM ADJACENT CONCRETE SURFACES SHALL BE:

4.1) WHERE UNIFORM FACE OF CONCRETE IS IN CONTACT WITH EARTH, 3"; EXCEPT SLABS, 1 1/2".

4.2) WHERE FORMED FACE OF CONCRETE IS IN CONTACT WITH EARTH OR IS EXPOSED TO THE WEATHER, 2".

4.3) THE MAXIMUM ALLOWABLE DEVIATION FROM THE FIGURES ABOVE SHALL BE 1/2" FOR CONCRETE SHAPES MORE THAN 10" IN WIDTH OR DEPTH.

5) MINIMUM LAP SPLICE FOR #4 BARS IS 30".

6) MINIMUM BEARING CAPACITY TO BE 1500 plf.

**DESIGN LOADS:**

GROUND SNOW LOAD - 50 psf.

WIND LOAD BASED ON 110 mph WIND PER ASCE 7-98, EXPOSURE C.

**NOTES:**

1) ACCESS DOOR BASEPLATES NOT SHOWN. USE ACTUAL SIDE RAILERS AS TYPICAL TO MARK HOLES AND DRILL.

2) ANCHOR BOLTS TO BE PROVIDED BY RUBB, INC. AND TENSIONS TO BE PROVIDED BY RUBB, INC. AND INSTALLED BY OTHERS. TEMPLATES MUST BE PLACED ACCURATELY TO FACILITATE EASY FIT-UP AND FAST ERECTION OF BUILDING.

3) CONCRETE SHOWN REPRESENTATIVE ONLY. ACTUAL DESIGN IS THE RESPONSIBILITY OF OTHERS.

4) FOR DETAILS NOT SHOWN HERE SEE DRAWING 36240.

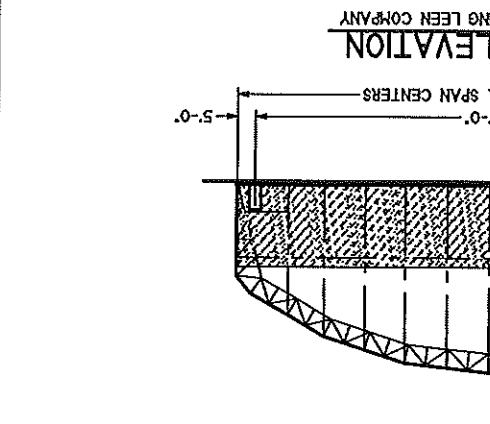
REV.	DESCRIPTION	DRAWN	APP.	DATE
8	REVISED ACCESS DOOR LOCATION	JAB		
7	REVISED BAY SPACING	AR	KV	3-22-02

**IRUBB**  
427<sup>th</sup> BVE / 7.6m LEG  
23.7<sup>th</sup> BVE / 4.0m LEG  
BUILDING SYSTEMS  
PLAN VIEW AND ELEVATIONS - RUBB VI

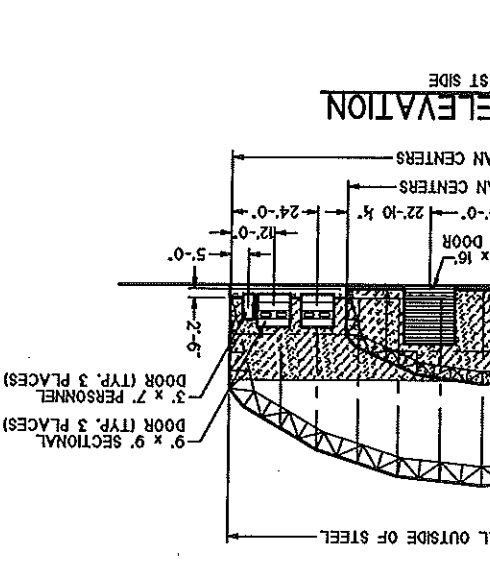
TEL: 202-374-2877 FAX: 202-374-2347  
RUBB INC. SWEET HOME 04073  
HERRELL INDUSTRIES  
02038 / 02039  
AR 3-12-02  
1:300  
This drawing is the property of IRUBB, Inc. and may not be reproduced or used for any purpose without the express written consent of IRUBB, Inc.

NOTES:  
1) COVERING MATERIAL IS A PVC PREPREGATED POLYESTER WEAVE FABRIC. SELF-EXTINGUISHING TO FEDERAL TEST STANDARD 191 METHOD 5903 AND COMPLIES WITH NFPA STANDARD 701, UBC 55-1. AND CALIFORNIA STATE FIRE MARSHAL'S OFFICE.  
2) STRUCTURAL FRAMEWORK IS GALVANIZED TUBULAR STEEL TRUSS FRAMES INTERCONNECTED WITH GALVANIZED TUBULAR STEEL STEEL PURLINS. STEEL PLATE AND SHAPES ARE A36. STEEL TUBING IS A500B.

REAR ELEVATION  
EAST SIDE FACING LEEN COMPANY



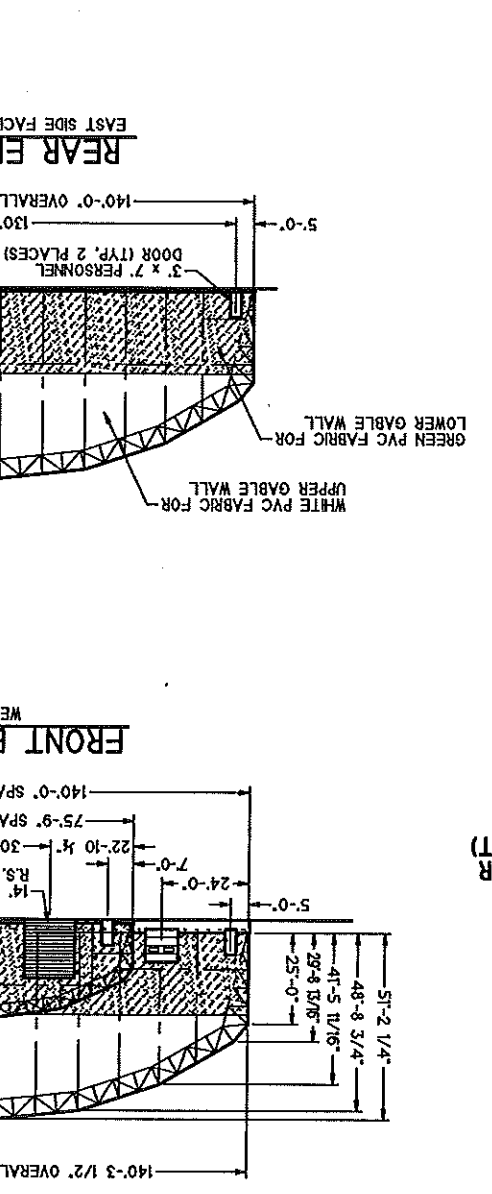
FRONT ELEVATION  
WEST SIDE



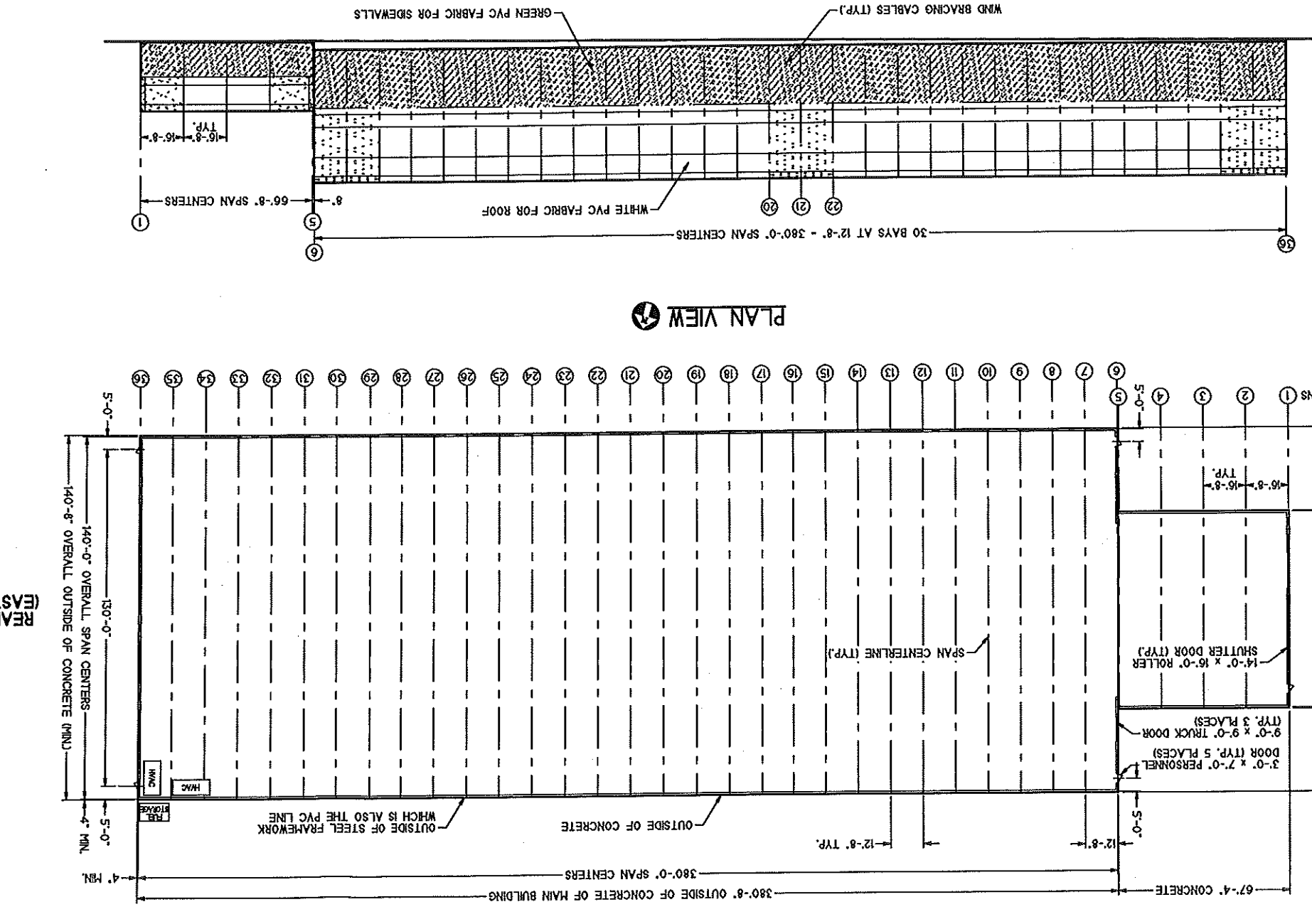
RIGHT SIDE ELEVATION  
SOUTH SIDE FACING WATER



LEFT SIDE ELEVATION  
NORTH SIDE FACING HERRILL'S ENTRANCE



PLAN VIEW



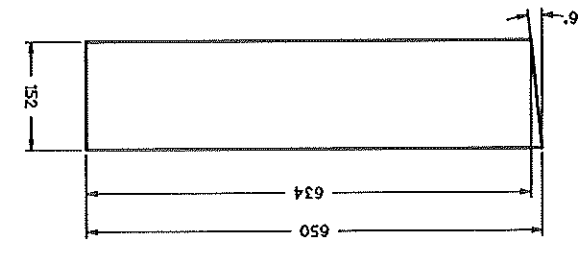
FRONT (WEST)  
REAR (EAST)

REV	DESCRIPTION	DATE
A	REVERSE FLANGE ITEM #1	HJO
No Cover The World 4266th BVE / 7.62m LEG <b>IRUBB</b> BUILDING SYSTEMS HJO 3-12-02 AR 3-18-02 02038 HERRILL INDUSTRIES 1:10 This drawing is the property of Irubb, Inc. and may not be reproduced or used for any other purpose without the express written consent of Irubb, Inc.		
TEL 207-324-2877 FAX 207-324-2347	36208	

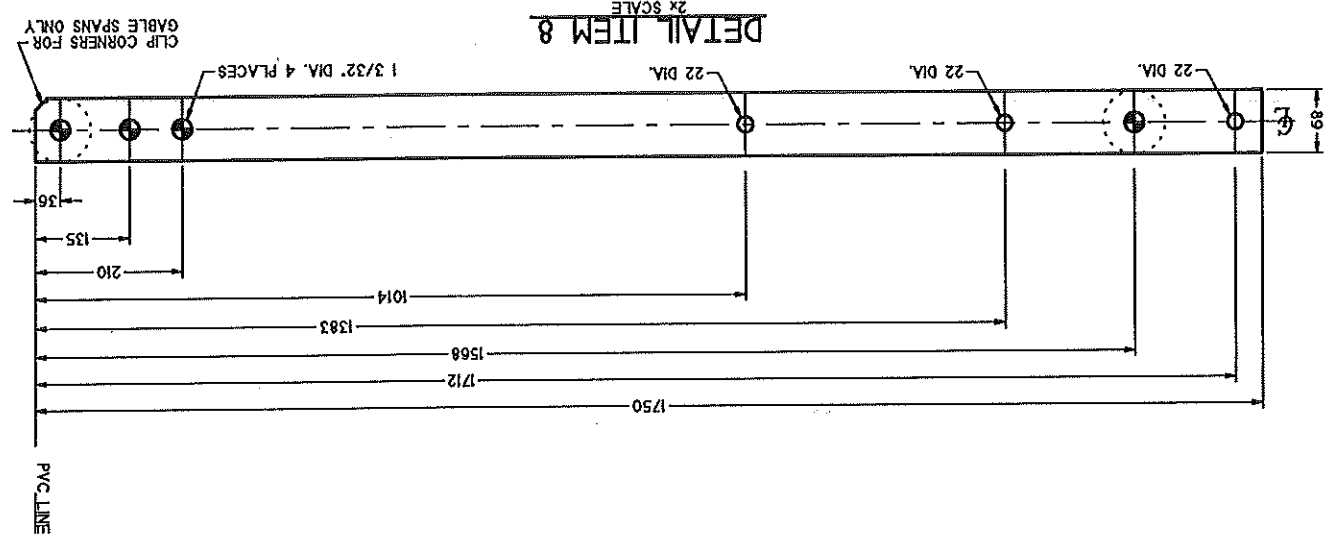
NOTES:  
 1) BREAK SHARP CORNERS FOR PVC  
 2) SEE DWG. 11006 FOR GEN. WELD NOTES  
 3) SEE LUG SCHEMATIC FOR FLANGE LUG  
 4) VENT ALL TUBES AS REQUIRED FOR GALVANIZING  
 5) ALL DIMENSIONS NOT LABELED WITH UNITS ARE IN MILLIMETERS  
 6) BLL. OF MATERIALS IS FOR ONE ASSEMBLY.

ITEM QTY.	DESCRIPTION	SPEC.	REV.
1	TUBE 3/4" DIA. x 250'	A5008 50 KI	
2	TUBE 3/4" DIA. x 120'	A5008 50 KI	
3	TUBE 2 3/8" DIA. x 120'	A5008 46 KI	
4	TUBE 2 3/8" DIA. x 120'	A5008 46 KI	
5	TUBE 2 3/8" DIA. x 120'	A5008 46 KI	
6	FLAT 3/4" x 3/8" x 400'	A338 36 KI	
7	FLAT 6" x 1/2" x 650'	A36 36 KI	
8	FLAT 3 1/2" x 1" x 1750'	A36 50 KI	
9	FLAT 2 1/2" x 1/4" x 52'	A36 36 KI	
10	FLAT 3" x 3/8" x 57'	A36 36 KI	

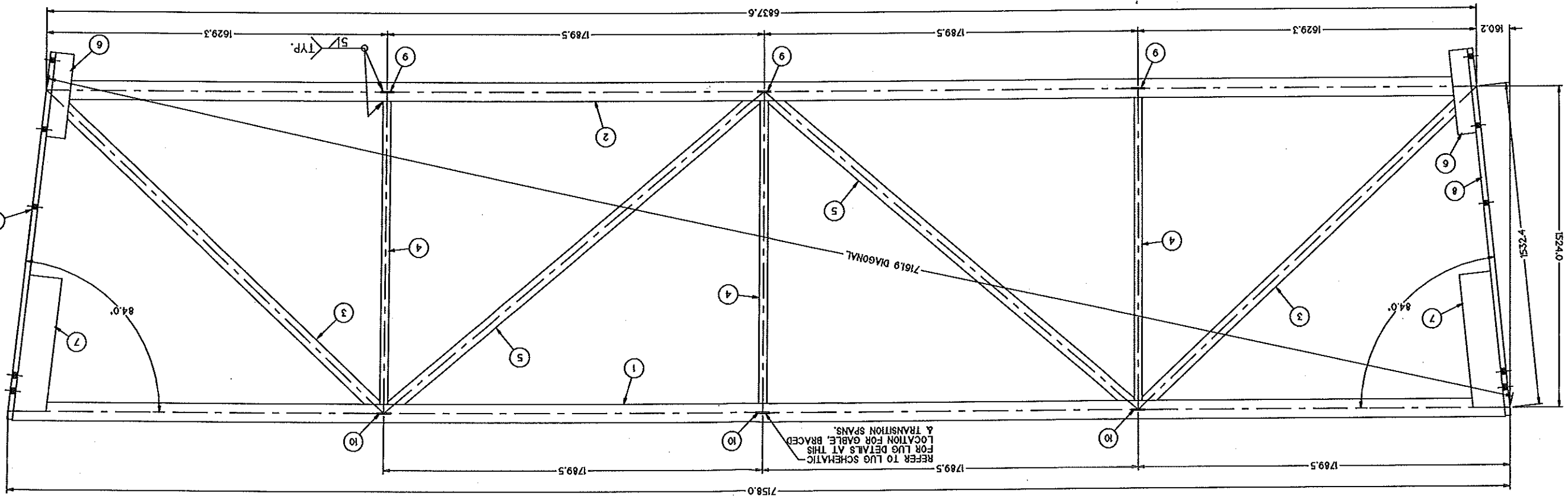
2x SCALE  
 DETAIL ITEM 7



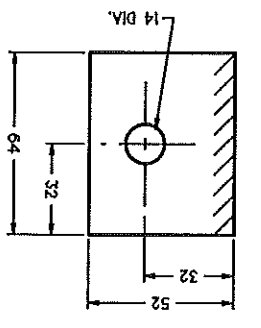
2x SCALE  
 DETAIL ITEM 8



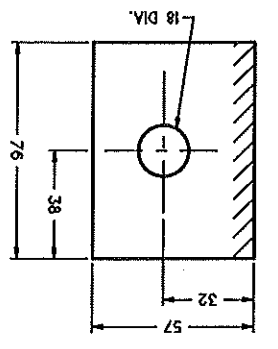
HD SPAN SHOWN  
 PEAK ROOF TRUSS



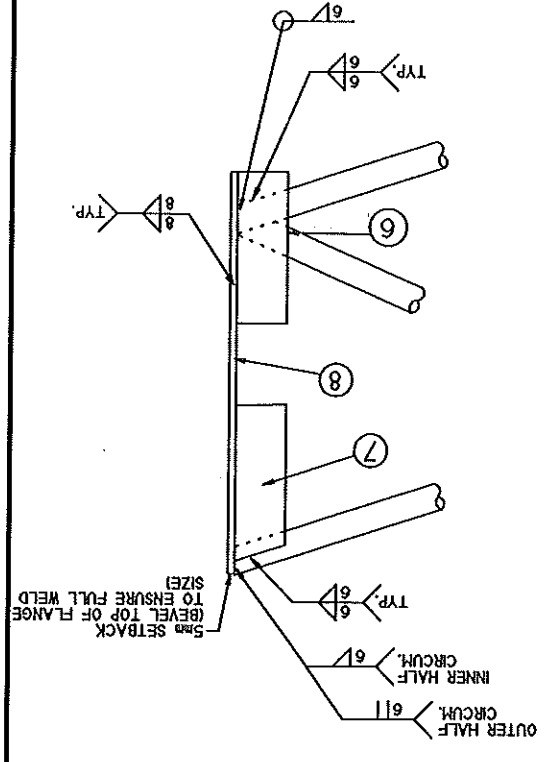
8x SCALE  
 DETAIL ITEM 9



8x SCALE  
 DETAIL ITEM 10



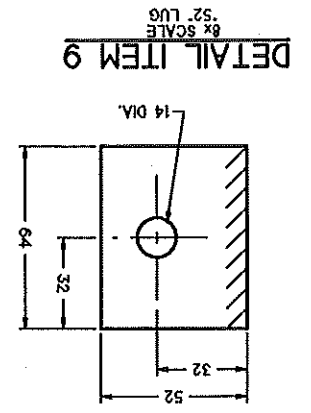
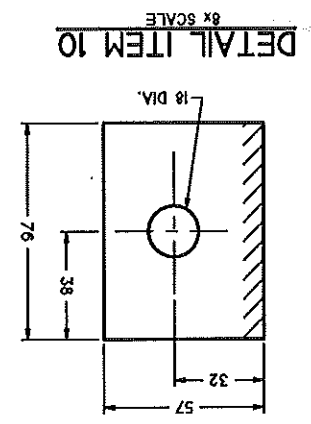
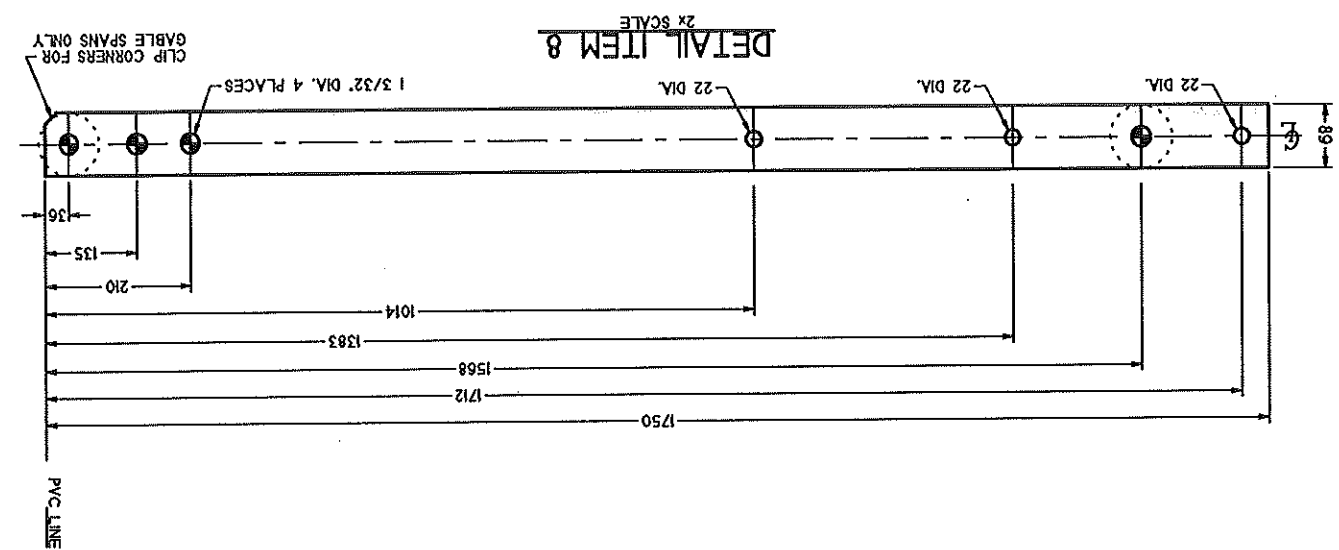
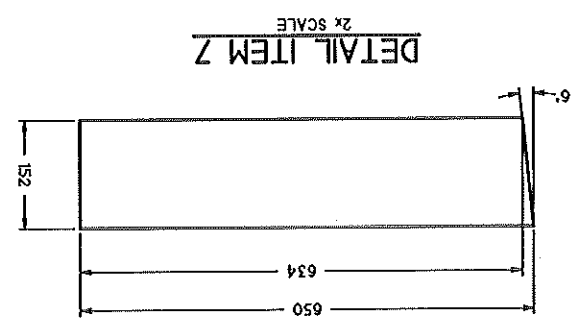
FLANGE & STIFFENER  
 WELD DETAILS



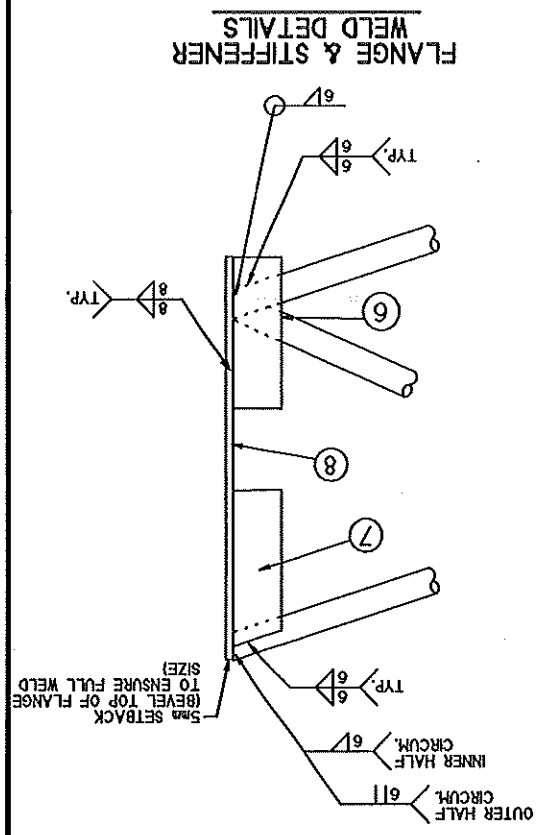
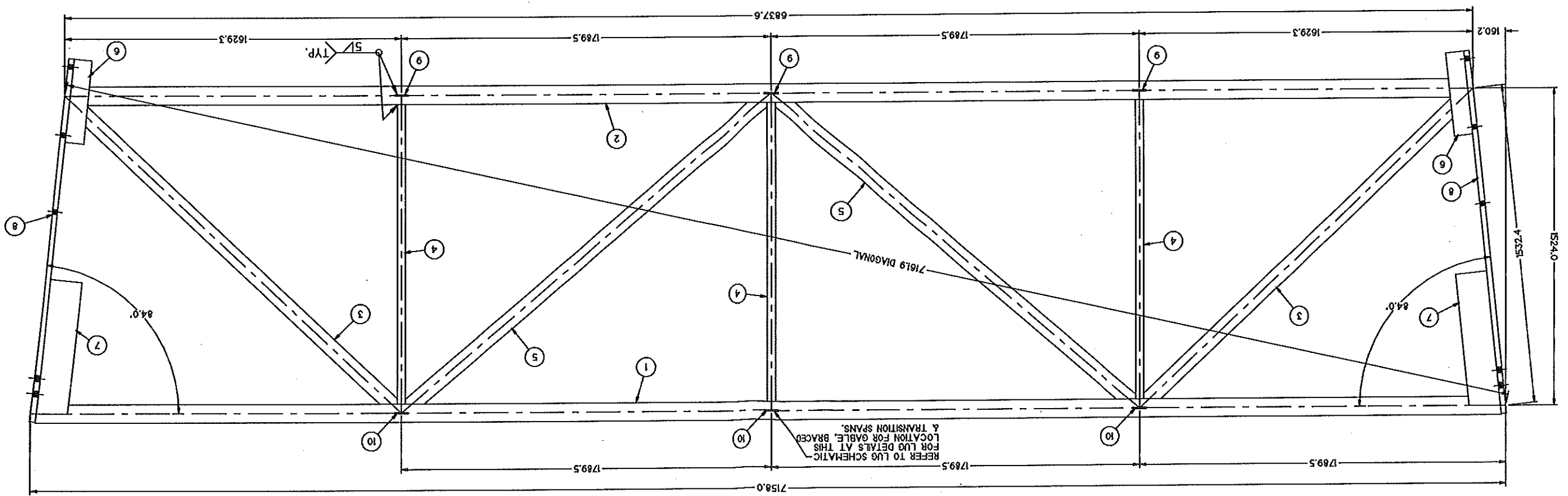
REV	DESCRIPTION	DATE
1	LOWER ROOF TRUSS	02/03/8
2	LOWER ROOF TRUSS	02/03/8
3	LOWER ROOF TRUSS	02/03/8
4	LOWER ROOF TRUSS	02/03/8
5	LOWER ROOF TRUSS	02/03/8
6	LOWER ROOF TRUSS	02/03/8
7	LOWER ROOF TRUSS	02/03/8
8	LOWER ROOF TRUSS	02/03/8
9	LOWER ROOF TRUSS	02/03/8
10	LOWER ROOF TRUSS	02/03/8

NOTES:  
 1) BREAK SHARP CORNERS FOR PVC  
 2) SEE DWG. 11006 FOR GEN. WELD NOTES  
 3) SEE LUG SCHEMATIC FOR FLANGE LUG  
 4) VENT ALL TUBES AS REQUIRED FOR  
 GALVANIZING  
 5) ALL DIMENSIONS NOT LABELED WITH  
 UNITS ARE IN MILLIMETERS  
 6) BILL OF MATERIALS IS FOR ONE ASSEMBLY.

ITEM	QTY.	DESCRIPTION	SPEC.	REV.
1	1	TUBE 3/1/2" DIA. x 188	A5008	50
2	1	TUBE 3/1/2" DIA. x 313	A5008	50
3	2	TUBE 3/1/2" DIA. x 120	A5008	55
4	3	TUBE 1/2" DIA. x 120	A5008	46
5	2	TUBE 3/4" DIA. x 120	A5008	46
6	4	FLANGE 3/1/2" x 3/8" x 400	A36	36
7	4	FLANGE 6" x 1/2" x 650	A36	36
8	2	FLANGE 3/1/2" x 1" x 1750	A36	50
9	2	FLANGE 2 1/2" x 1/4" x 52	A36	36
10	3/6	FLANGE 3/4" x 3/8" x 52	A36	36



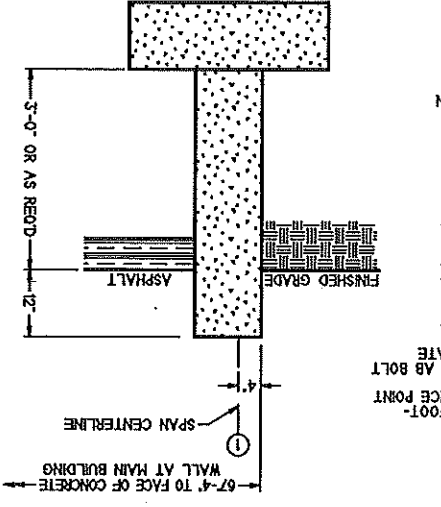
LOWER ROOF TRUSS  
 HD SPAN SHOWN



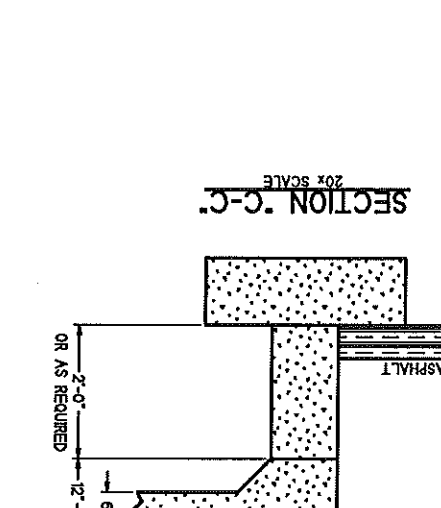
36240	REV	DESCRIPTION	DATE
	A	REVERSED PER DETAIL A ACCESS DOOR LOCATION	JAB
		WE COVER THE TRUCK DOOR	
		4268a BVE / 7.624 LEG	
		23.17" BVE / 4.0" LEG	
		ANCHOR BOLT DETAILS RUBB W.	
		BUILDING SYSTEMS	
		AR 3-26-02	1:300
		KY	02038 / 02039
		02038 / 02039	
		GENERAL INDUSTRIES	
		3-26-02	
		RUBB INC. SVA-CO LINE 04073	
		TEL 207-244-2877 FAX 207-244-2347	

NOTES:  
 1) CONCRETE SHOWN IS REPRESENTATIVE ONLY. ACTUAL DESIGN IS THE RESPONSIBILITY OF OTHERS. DESIGN OF FIT FOR DOCK LEVELERS BY OTHERS.  
 2) DOCK LEVELERS BY OTHERS. DESIGN OF FIT FOR DOCK LEVELERS BY OTHERS.  
 3) SEE DRAWING 36205 FOR ADDITIONAL NOTES AND DETAILS.

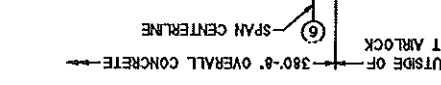
**SECTION D-D**  
 20x SCALE



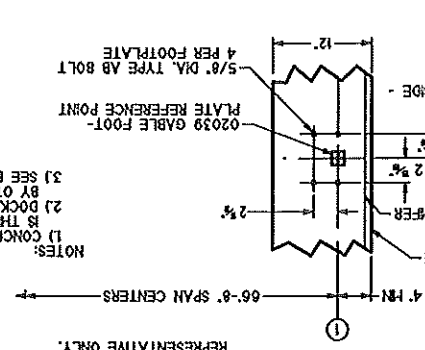
**SECTION E-E**  
 10x SCALE



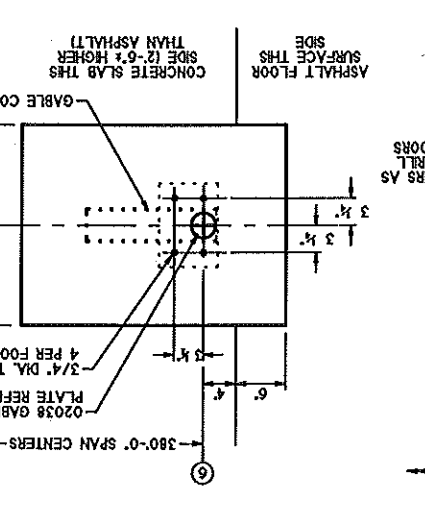
**SECTION C-C**  
 20x SCALE



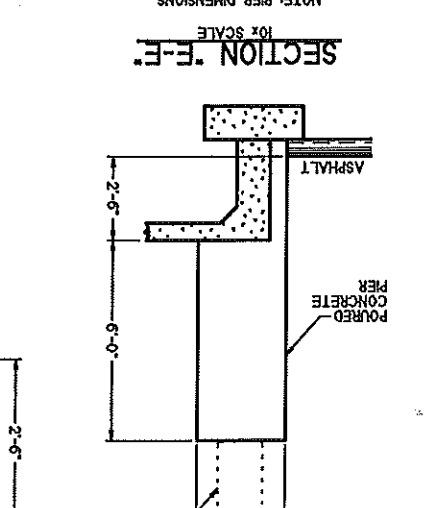
**DETAIL J**  
 LOCATION II SHOWN  
 30x SCALE



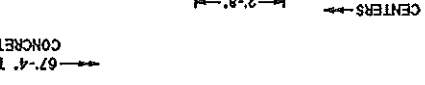
**DETAIL N**  
 TYPICAL 3 PLACES  
 30x SCALE



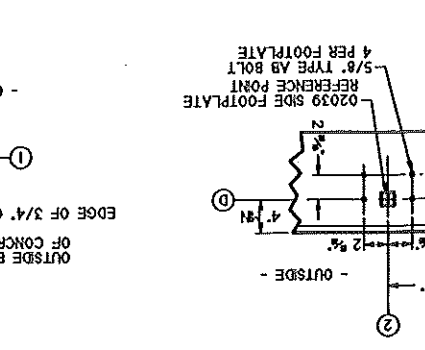
**SECTION B-B**  
 20x SCALE



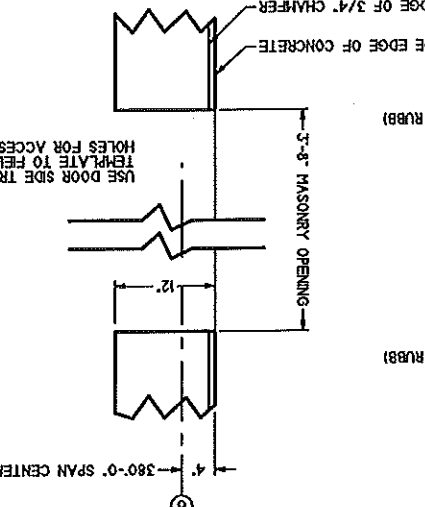
**SECTION B-B**  
 20x SCALE



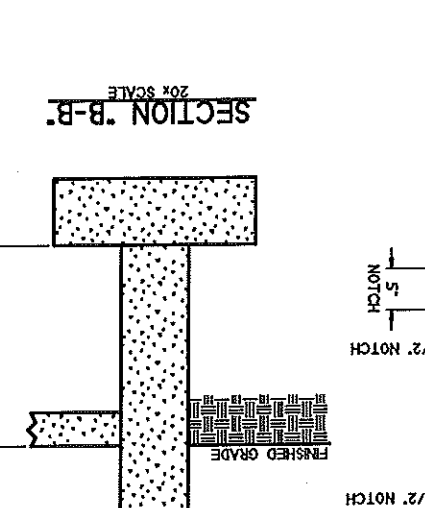
**DETAIL I**  
 LOCATION D2 SHOWN  
 30x SCALE



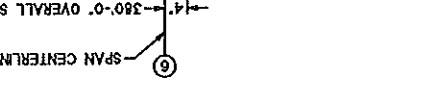
**DETAIL M**  
 TYPICAL 3 PLACES  
 30x SCALE



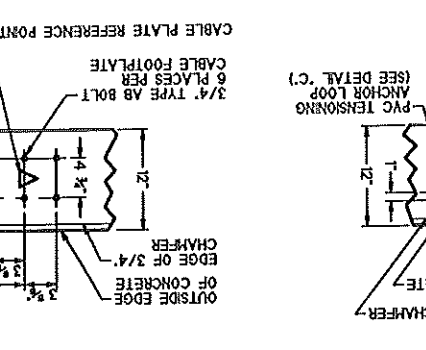
**DETAIL K**  
 TYPICAL 2 PLACES  
 30x SCALE



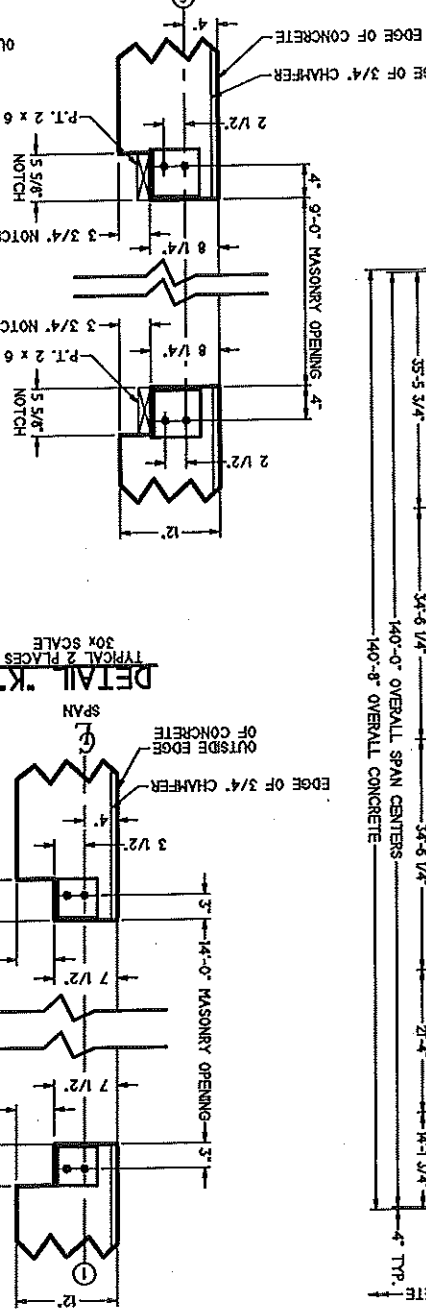
**DETAIL L**  
 TYPICAL 4 PLACES  
 30x SCALE



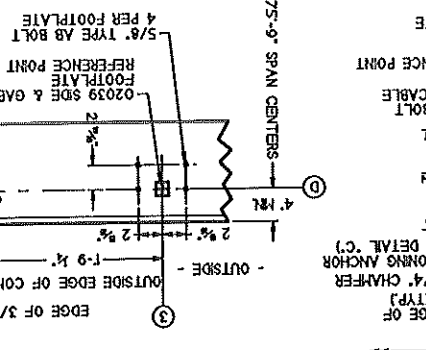
**DETAIL H**  
 LOCATION D3 SHOWN  
 30x SCALE



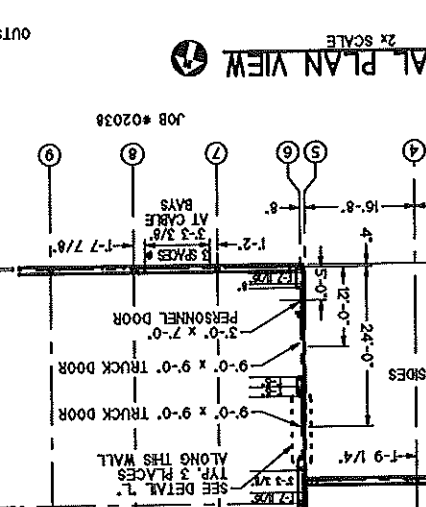
**PARTIAL PLAN VIEW**  
 2x SCALE



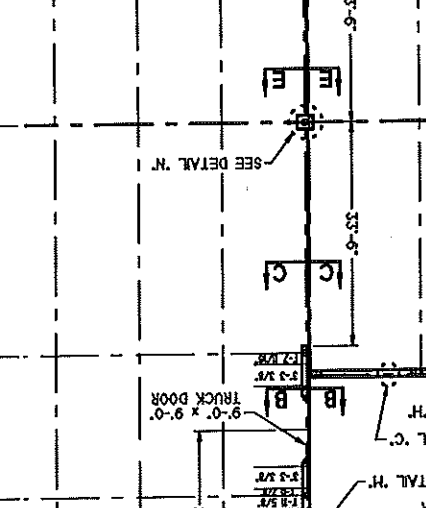
**DETAIL G**  
 LOCATION D1 SHOWN  
 30x SCALE



**DETAIL F**  
 TYPICAL 3 PLACES  
 30x SCALE



**DETAIL E**  
 TYPICAL 2 PLACES  
 30x SCALE



**DETAIL D**  
 TYPICAL 4 PLACES  
 30x SCALE

