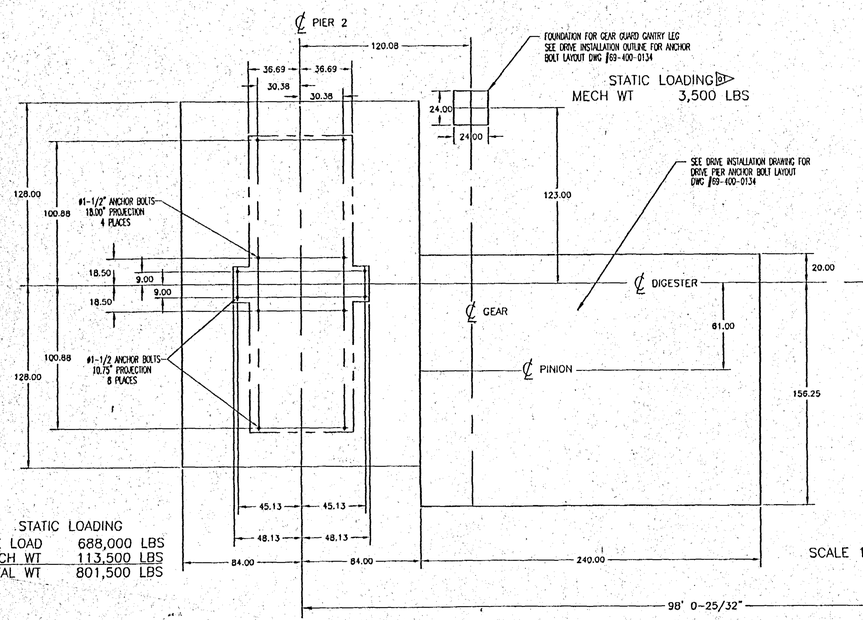
352925
(1)

PIER #	RIDING RING SIZE	CARRYING ROLLER DIAMETER	CARRYING BEARING SIZE	THRUST ROLLER SIZE	THRUST ROLLER BEARING SIZE
1	196.0" OD. 22" FACE	54" OD. x 24" FACE	18" x 22"		
2	196.0" OD. 22" FACE	54" OD. x 24" FACE	18" x 22"	36" x 4"	12" x 15"

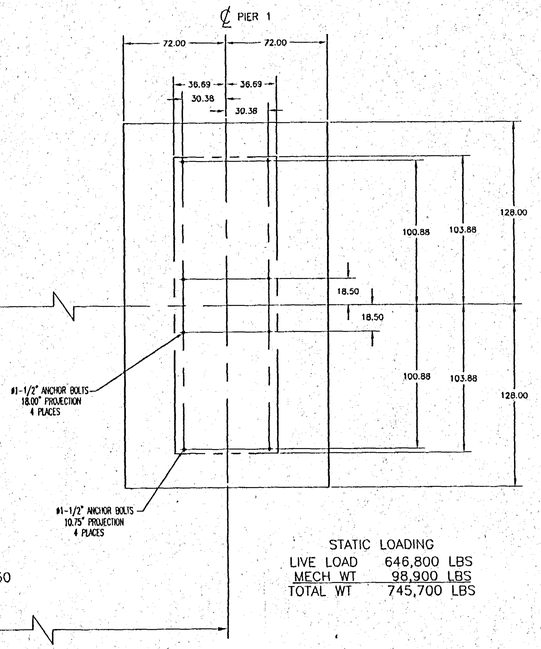
#	DESCRIPTION	DATE	APPROVED
00	PRELIMINARY RELEASE	8/13/2001	SMK
	FOR QUOTE PURPOSES ONLY		
#	DESCRIPTION	DATE	APPROVED
01	ADDED LOADING FOR GEAR GUARD	09/12/2001	smk1
	GANTRY PIER		
A	RELEASED FOR CONSTRUCTION	09/28/2001	smk1



STATIC LOADING

LIVE LOAD	688,000 LBS
MECH WT	113,500 LBS
TOTAL WT	801,500 LBS

SCALE 1/50



STATIC LOADING

LIVE LOAD	646,800 LBS
MECH WT	98,900 LBS
TOTAL WT	745,700 LBS

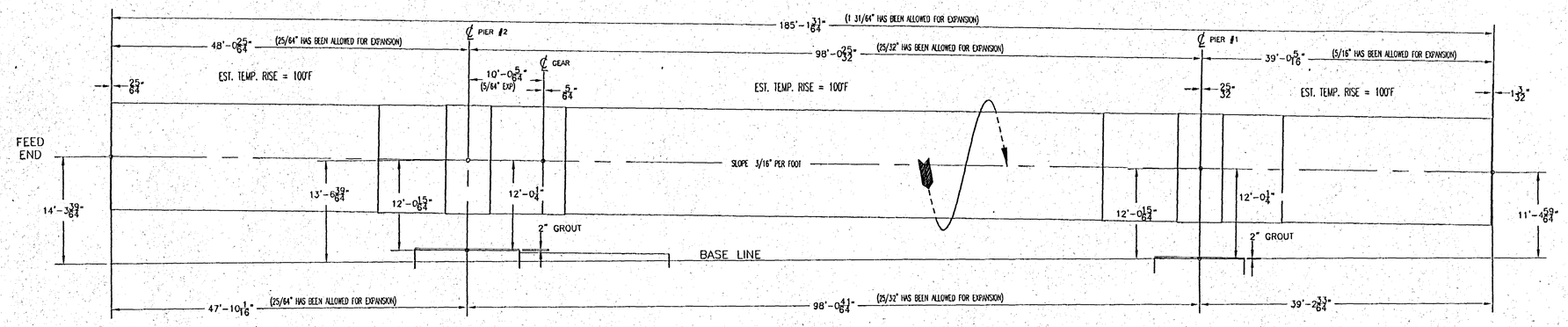
NOTES:

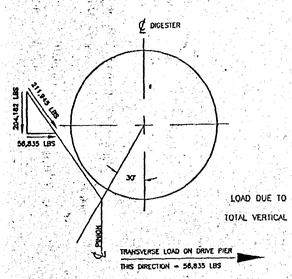
1. THE AXIAL THRUST LOAD OF BIOMIXER IS 41,700 LBS. THIS LOAD IS TO BE APPLIED TO EACH PIER IN BOTH UPHILL AND DOWNHILL DIRECTIONS.
2. WHEN ALIGNING PINION TO MAIN GEAR, THRUST RIDING RING MUST BE TIGHT AGAINST DOWNHILL THRUST ROLLER.
3. DESIGN FOR ALL PIERS SHOULD PROVIDE 36" OF CLEARANCE ON UPHILL SIDE OF ROLLER FRAME TO ALLOW JACKS TO BE PLACED FOR SUPPORTING DRUM WHEN IT IS NECESSARY TO MAKE A CHANGE IN THE CARRYING MECHANISM.
4. ALL EXPANSIONS ARE BASED ON ASSUMED TEMPERATURE RISES.
5. PLACE CENTERLINE OF CARRYING MECHANISM FRAMES ON RIDING RING CENTERLINES IN THE OPERATING CONDITION.
6. BIOMIXER COLD SETTING SHOULD BE TAKEN WHEN THRUST RIDING RING IS AGAINST DOWNHILL THRUST ROLLER AND CARRYING ROLLER SHAFT IS AGAINST END THRUST WEARING PLATE OF DOWNHILL CARRYING ROLLER
7. FOUNDATION BOLTS, NUTS, AND WASHERS ARE TO BE SUPPLIED AS PART OF THE FOUNDATION. FOUNDATION BOLT DIAMETERS WILL BE SPECIFIED BY A-C EQUIPMENT SERVICES.
8. CARRYING MECHANISM FRAMES ARE TO BE SET ON SLOPE AND LEVEL WITHIN .002"/FT. BEFORE GROUTING.
9. AFTER GROUTING UNDER FRAMES, A CONCRETE PIER CAP SHOULD BE POURED AS SHOWN. IT IS RECOMMENDED THE CONCRETE PIER CAP BE DOWELED TO THE TOP OF THE ROUGH PIER AND REINFORCED WITH REBAR AND OPTIONALLY WITH WIRE MESH.
10. THOROUGHLY CLEAN, DEBUR, AND COAT THE BORE OF THE RIDING RINGS AND TIRE PADS UNDER RIDING RINGS WITH A THICK PASTE OF GRAPHITE AND OIL OR EQUIVALENT BEFORE MOUNTING TIRES.
11. THE ROTATION OF THE BIOMIXER IS CLOCKWISE WHEN VIEWED FROM THE DISCHARGE END.
12. TRANSVERSE LOADS FOR A STRAIGHT, WELL ALIGNED ROTARY BIOMIXER ARE NORMALLY NEGLIGIBLE, BUT IT IS SUGGESTED THAT A TRANSVERSE FORCE EQUAL TO 50% OF THE TOTAL VERTICAL STATIC LOAD, AS SHOWN, BE ASSUMED IN BOTH DIRECTIONS AT EACH PIER.
13. EXCEPT FOR TRANSVERSE LOADS, IT IS SUGGESTED THAT THE SHOWN LOADS BE INCREASED 100% FOR DESIGN OF FOUNDATIONS.
14. EQUIPMENT IS TO BE ALIGNED AND LEVELED IN THE FIELD AS NECESSARY TO MAINTAIN INSTALLATION DIMENSIONS BEFORE AND AFTER FIELD JOINTS ARE WELDED. FIELD JOINTS ARE TO BE FITTED IF NECESSARY.
15. CARRYING MECHANISM FRAMES MUST BE SET AT THE ELEVATION AND LOCATION SHOWN. DEVIATION FROM SPECIFIED ELEVATION AND AXIAL SPACING MUST NOT EXCEED 0.06 INCHES.
16. ROTARY BIOMIXER REFERENCE DRAWINGS.

INSTALLATION OUTLINE DRAWING.	69-400-0133
DRIVE INSTALLATION OUTLINE DRAWING.	69-400-0134
CARRYING MECHANISM GENERAL ASSEMBLY.	69-400-0135
THRUST MECHANISM GENERAL ASSEMBLY.	69-400-0136

17. CARRYING ROLLER FRAMES ARE TO BE SET ON SLOPE OF BIOMIXER. THE ANCHOR BOLTS MUST BE SET ON SLOPE SO THAT THEY ARE PERPENDICULAR TO THE CARRYING ROLLER FRAMES.
18. PIER OUTLINE DIMENSIONS SHOWN ARE MINIMUM REQUIRED.
19. SLEEVES ARE TO BE USED WITH ALL ANCHOR BOLTS TO ALLOW FOR FIELD ADJUSTMENTS.

IMPORTANT: SEE NOTES #17 & #19 BEFORE SETTING ANCHOR BOLTS

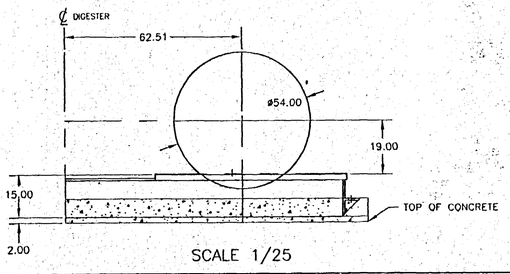




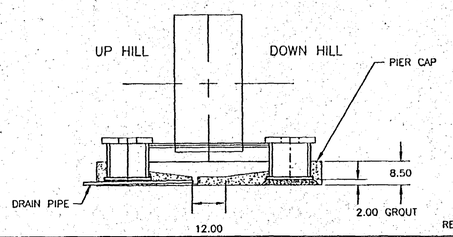
SECTION A-A

DRIVE PIER LOADING

LOAD DUE TO PINION REACTION 136,760 LBS
STATIC LOAD 67,422 LBS
TOTAL VERTICAL LOAD ON DRIVE PIER 204,182 LBS



SCALE 1/25



REMOVE ALL BURRS, SHARP EDGES, ETC

JOB NAME: SUMTER COUNTY SOLID WASTE - BUSHNELL, FL.

CONFIDENTIAL - PROPERTY OF: a-c equipment services, MILWAUKEE, WISCONSIN U.S.A.

NAME: INSTALLATION OUTLINE ROTARY BIOMIXER ø14' I.D. x 185' LG

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982. LIMITS UNLESS OTHERWISE NOTED LINEAR: .X ±.06, .XX ±.03, .XXX ±.01, ANGLES: ±.50°

125 MACHINED SURFACE TEXTURE

MAT'L

AUTOCAD FILE: 69-4133

R, WT, F

DR. smk 08/13/2001

CH. ____ ____

AP. ____ ____

JOB NO. BM01-3123

THIRD ANGLE PROJECTION

REFERENCE DWG:

SIZE D

SCALE 1:100

SHEET 1 OF 1

PART NO. 69-400-0133

REVISION A

Oct 02, 2001 - 14:33

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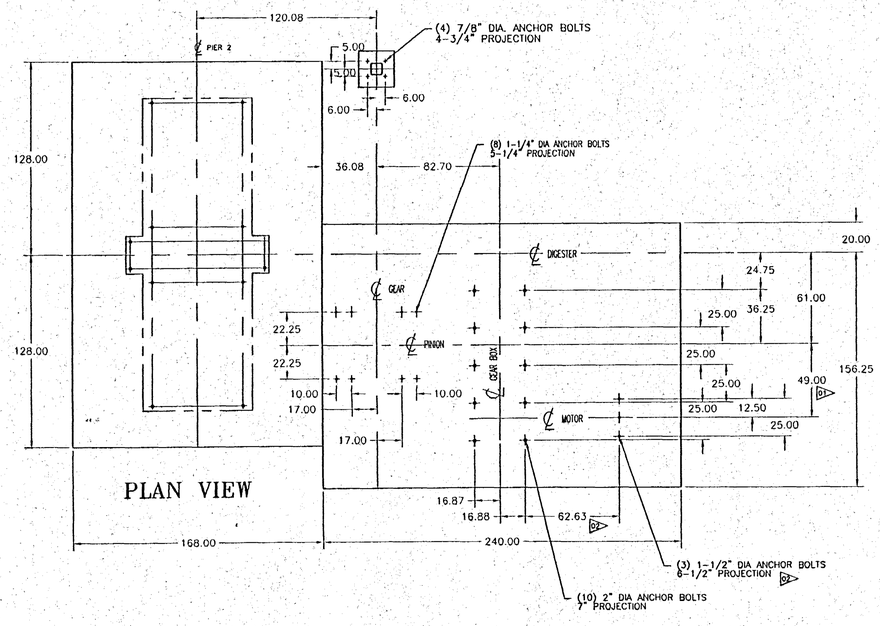
D.E.P. OCT 11 2001 Southwest District Tampa

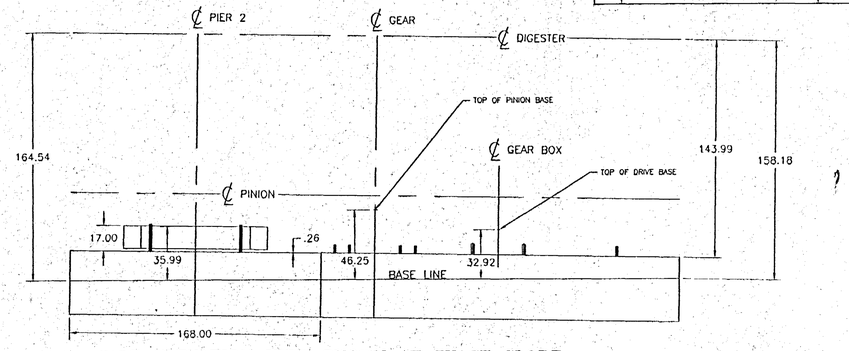
Digester #2 File only

OCT 10 2001

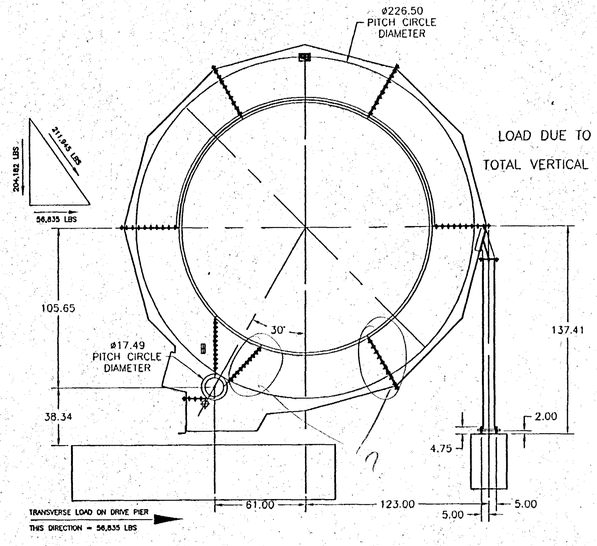
#	DESCRIPTION	DATE	APPROVED
00	PRELIMINARY RELEASE FOR QUOTE PURPOSES ONLY	8/14/2001	smk
#	DESCRIPTION	DATE	APPROVED
01	49.00" was 44.00"	09/12/2001	smk1
02	ANCHOR BOLT LOCATION CHANGED PER REDUCER BASE CERTIFIED PRINT 62.63" WAS 57.88"	09/25/2001	smk1
A	RELEASED FOR CONSTRUCTION	09/28/2001	smk1



PLAN VIEW



SIDE ELEVATION VIEW SHOWN AT EXACT SLOPE



SECTION A–A

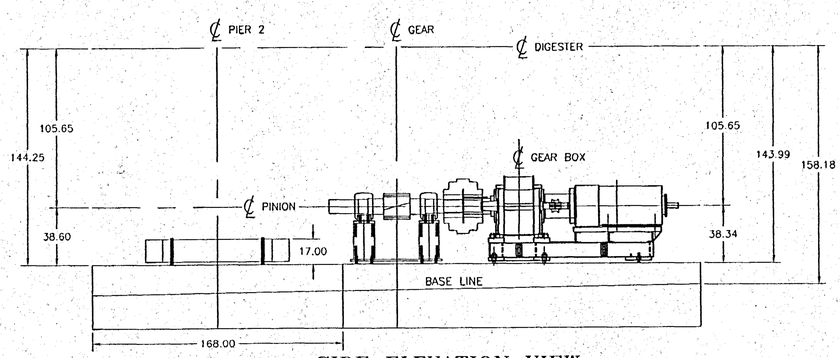
DRIVE PIER LOADING

LOAD DUE TO PINION REACTION	136,760 LBS
STATIC LOAD	67,422 LBS
TOTAL VERTICAL LOAD ON DRIVE PIER	204,182 LBS

NOTES:

1. FOR INSTRUCTIONS IN SETTING DRIVE GEAR AND PINION SEE DWG #69-400-0110
2. FOUNDATION OUTLINE DIMENSIONS SHOWN ARE RECOMMENDED BY A-C EQUIPMENT SERVICES, HOWEVER THESE DIMENSIONS MAY BE VARIED TO ACCOMMODATE FOUNDATION DESIGNER'S REQUIREMENTS.
3. A-C EQUIPMENT SERVICES SUGGESTS THAT THE LOADS ON THE DRIVE PIER BE INCREASED BY 100% WHEN DESIGNING FOUNDATION.
4. DRIVE EQUIPMENT IS TO BE INSTALLED ON SLOPE (3/16 PER FOOT) WITH BIOMIXER. ANCHOR BOLTS MUST BE INSTALLED PERPENDICULAR TO SLOPE OF BIOMIXER (3/16 PER FOOT GRADE).
5. SLEEVES ARE TO BE USED WITH ALL ANCHOR BOLTS FOR FIELD ADJUSTMENTS.
6. REFERENCE INSTALLATION OUTLINE DWG #69-400-0133.
7. BASE LINE SHOWN IS THE ELEVATION OF CENTER OF PIER #1 AT TOP OF THE ROUGH CONCRETE.

IMPORTANT: SEE NOTE #4 BEFORE SETTING ANCHOR BOLTS



SIDE ELEVATION VIEW

DRIVE EQUIPMENT

MOTOR – SEVER 300 HP./1200 RPM
GEAR – 226 TEETH/1DP./18" FACE (HELICAL)
PINION – 17 TEETH/1DP./18" FACE (HELICAL)
REDUCER – FALK TYPE 525A-3 RATIO 85.94:1
HS. COUPLING – FALK STEELFLEX/SIZE 1100T10
LS. COUPLING – FALK STEELFLEX/SIZE 1220T10
LS. COUPLING GUARD
HS. COUPLING GUARD

JOB NAME: SUMTER COUNTY SOLID WASTE – BUSHNELL, FL.

CONFIDENTIAL – PROPERTY OF: A-C equipment services, MILWAUKEE, WISCONSIN U.S.A.

NAME: DRIVE INSTALLATION OUTLINE, ROTARY BIOMIXER ø14' I.D. x 185' LG

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982. LIMITS UNLESS OTHERWISE NOTED
LINEAR: .X ±.06, .XX ±.03, .XXX ±.01
ANGLES: ±.50°
125 MACHINED SURFACE TEXTURE

MAT'L

AUTOCAD FILE: 69-4134 | WT R F

DR. smk 08/14/2001
CH. ——— ———
AP. ——— ———
JOB NO. BM01-3123
SCALE 1/4"=1'0" | SHEET 1 OF 1
THIRD ANGLE PROJECTION | REFERENCE DWG: | SIZE D
PART NO. 69-400-0134 | REVISION A

REMOVE ALL BURRS, SHARP EDGES, ETC

Oct 02, 2001 – 14:35

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RECEIVED
ENVIRONMENTAL PROTECTION
OCT 11 2001
SOUTHWEST DISTRICT
TAMPA

OCT 10 2001

CARRYING MECHANISM LIST OF PARTS

413-A	CARRYING ROLLER
413-B	CARRYING BEARING OIL SEAL (INNER)
413-C	CARRYING BEARING OIL SEAL (OUTER)
413-D	CARRYING BEARING RETAINING RING SEGMENT
413-E	CARRYING BEARING HOUSING
413-F	CARRYING BEARING BUSHING
413-G	CARRYING BEARING END COVER
413-H	OIL LEVEL STAND PIPE ASSEMBLY (LOW SIDE)
413-K	OIL LEVEL STAND PIPE ASSEMBLY (HIGH SIDE)
413-L	CARRYING ROLLER SHAFT
413-M	END COVER THRUST PLATE
413-N	CARRYING BEARING OIL PAN
413-P	CARRYING BEARING OIL BUCKET
413-Q	CARRYING MECHANISM FRAME
413-R	ADJUSTING LUG BLOCK
413-S	ADJUSTING SCREW
413-T	ROLLER GUARD CROSS MEMBER
413-U	ROLLER GUARD SIDE PLATE
413-V	LUBRICATING BLOCK
413-W	CARRYING BEARING WATER JACKET COVER
413-X	INSPECTION PORT COVER
413-Y	INSPECTION PORT COVER GASKET
413-Z	OIL FILL/VENT

CARRYING MECHANISM LIST OF HARDWARE

▷ 414-A	(12) OIL SEAL RETAINER BOLTS (1/2-13 UNC x 1.5" LG. GR. 2)
414-B	(4) BUSHING RETAINER BOLTS (5/8 - 11 UNC x 2.00" LG. GR. 2)
414-C	(24) END COVER BOLTS (1 - 8 UNC x 4.5" LG. GR. 5)
▷ 414-D	(56) WATER JACKET COVER BOLTS (1/2-13 UNC x 1.0" LG. GR. 2)
▷ 414-E	(24) INSPECTION COVER BOLTS (1/2-13 UNC x 1.0" LG. GR.2)
414-F	(4) OIL PAN BOLTS (1/2 - 13 UNC x 4.75" LG. GR. 2)
414-G	(4) OIL PAN LOCK WASHERS FOR 1/2" BOLT
414-H	(8) OIL BUCKET BOLTS (5/8 - 11 UNC x 1.25" LG. GR. 2)
414-J	(6) THRUST PLATE RETAINING SCREWS (5/8 - 11 UNC x 1.50" LG. (BRASS))
414-K	(4) BUSHING RETAINER BOLT WASHER (FLAT) FOR 5/8" BOLT
414-L	(24 CARTRIDGES) RTV 732 SILICON SEALANT

#	DESCRIPTION	DATE	APPROVED
00	PRELIMINARY RELEASE FOR QUOTE PURPOSES ONLY	8/15/2001	SMK
#	DESCRIPTION	DATE	APPROVED
01	CHANGED BOLT SIZES TO 1/2-13 TO CONFORM TO BEARING HOUSING MACHINING DRAWING	09/06/2001	smk1
A	RELEASED FOR CONSTRUCTION	09/28/2001	smk1

NOTES:

1.) 180° BUSHING CENTERLINE MUST BE INSTALLED 30° FROM THE VERTICAL CENTERLINE AS SHOWN. NOTE THAT THE HIGH SIDE OF THE BUSHING WILL BE TOWARD THE OUTSIDE. (AWAY FROM THE CENTERLINE OF THE BIOMIXER.)

2.) DURING INITIAL INSTALLATION OF MACHINE, OR IF MACHINE IS NOT TO BE PLACED IN IMMEDIATE OPERATION, OR IF THE MACHINE IS TO BE IDLE FOR ANY APPRECIABLE PERIOD OF TIME, EACH BEARING SHOULD BE FILLED WITH ENOUGH OIL TO COMPLETELY COVER THE SHAFT.

3.) DURING INSTALLATION OF THE SPLIT OIL SEALS ON SHAFTS CHECK TO SEE THAT THE SEAL LIP IS BEING HELD IN CONTACT WITH THE SHAFT BY THE GARTER SPRING. IF INSTALLED PROPERLY THE SEAL SHOULD ROTATE FREELY ON A GREASED PORTION OF THE SHAFT WITH APPROXIMATELY 10 TO 15 LBS. OF FORCE. THE CARTER SPRING LENGTH MAY BE ADJUSTED ACCORDINGLY. IF THE SEAL IS STIFF DUE TO COLD TEMPERATURE THE FORCE IN THIS CHECK WILL BE AFFECTED; HERETO, SPRING ADJUSTMENTS MUST BE ALTERED.

4.) EXTREME CARE MUST BE TAKEN DURING THE APPLICATION OF ANY SEALANT, OR OTHER ADHESIVE MATERIAL, TO ASSURE THAT NO EXCESS MATERIAL WILL BE SQUEEZED INTO, OR OTHERWISE ENTER THE LUBRICATION CHAMBER OF THE BEARING HOUSINGS. THE RESULTING CONTAMINATION WILL IMPAIR PROPER LUBRICATION, AND COULD LEAD TO BEARING FAILURE.

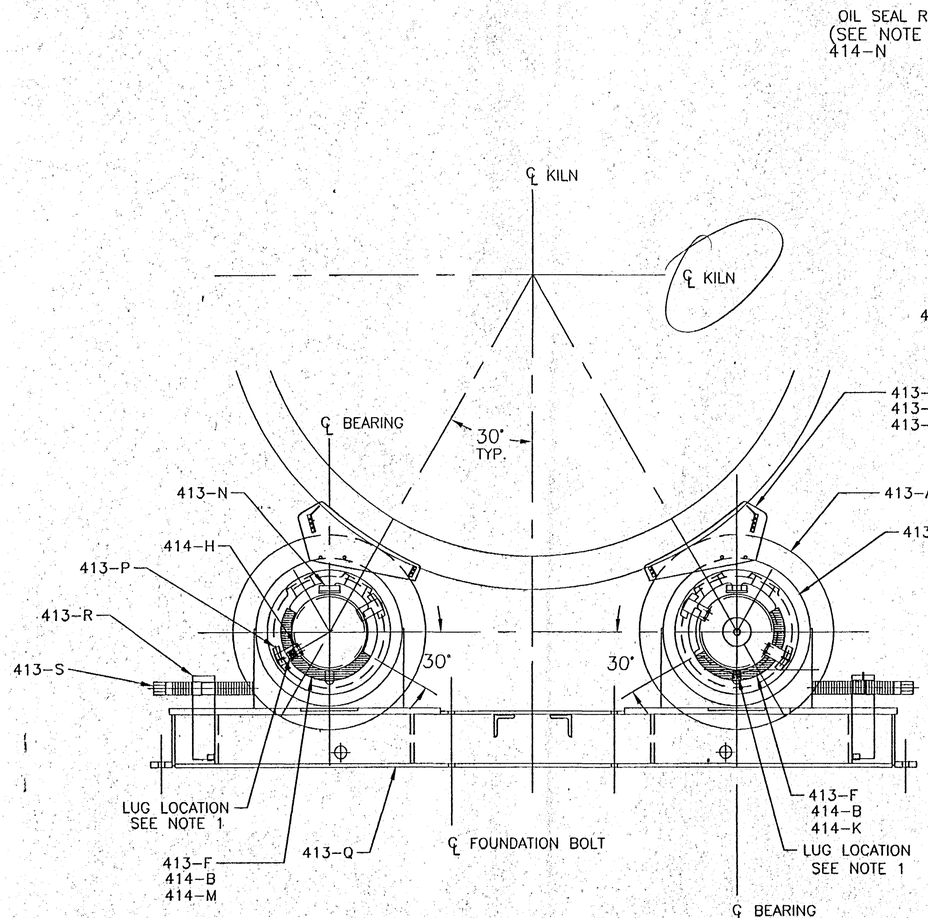
5.) SEE THE INSTALLATION OUTLINE DRAWING (69-400-0133) FOR PROPER INITIAL SETTING OF CARRYING BEARING HOUSINGS ON CARRYING MECHANISM FRAME.

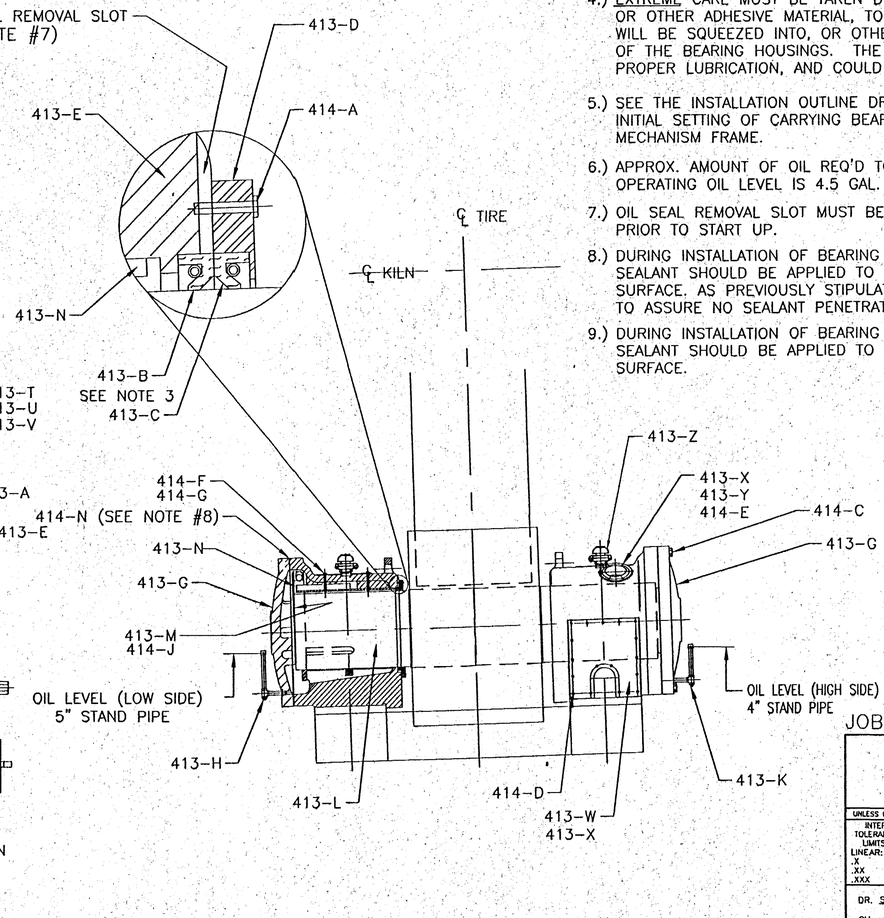
6.) APPROX. AMOUNT OF OIL REQ'D TO FILL BEARING TO THE OPERATING OIL LEVEL IS 4.5 GAL. (17 LTRS.)

7.) OIL SEAL REMOVAL SLOT MUST BE FILLED W/RTV SILICON SEALANT PRIOR TO START UP.

8.) DURING INSTALLATION OF BEARING END COVERS, A VERY FINE BEAD OF SILICON SEALANT SHOULD BE APPLIED TO THE OUTER EDGE OF THE MATING BRG. HOUSING SURFACE. AS PREVIOUSLY STIPULATED IN NOTE #4, EXTREME CARE NEEDS TO BE TAKEN TO ASSURE NO SEALANT PENETRATES INTO THE LUBRICATION CAVITY OF THE BRG. HOUSING.

9.) DURING INSTALLATION OF BEARING WATER JACKET COVERS, A VERY FINE BEAD OF SILICON SEALANT SHOULD BE APPLIED TO THE OUTER EDGE OF THE MATING BRG. HOUSING SURFACE.





JOB NAME: SUMTER COUNTY SOLID WASTE - BUSHNELL, FL.

CONFIDENTIAL - PROPERTY OF: a-c equipment services, MILWAUKEE, WISCONSIN U.S.A.

NAME: CARRYING MECHANISM GENERAL ASSEMBLY

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES. INTERPRET ALL DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982. LIMITS UNLESS OTHERWISE NOTED. LINEAR: .X ±.06, .XX ±.03, .XXX ±.01. ANGLES: ±.50°. 125 MACHINED SURFACE TEXTURE.

MAT'L

AUTOCAD FILE: 69-4135

WT R F

DR. smk 08/15/2001

CH.

AP.

JOB NO. BM01-3123

SCALE 1'0"=1'0" SHEET 1 OF1

THIRD ANGLE PROJECTION

REFERENCE DWG:

SIZE D

PART NO. 69-400-0135

REVISION A

REMOVE ALL BURRS, SHARP EDGES, ETC

Oct 02, 2001 - 14:36

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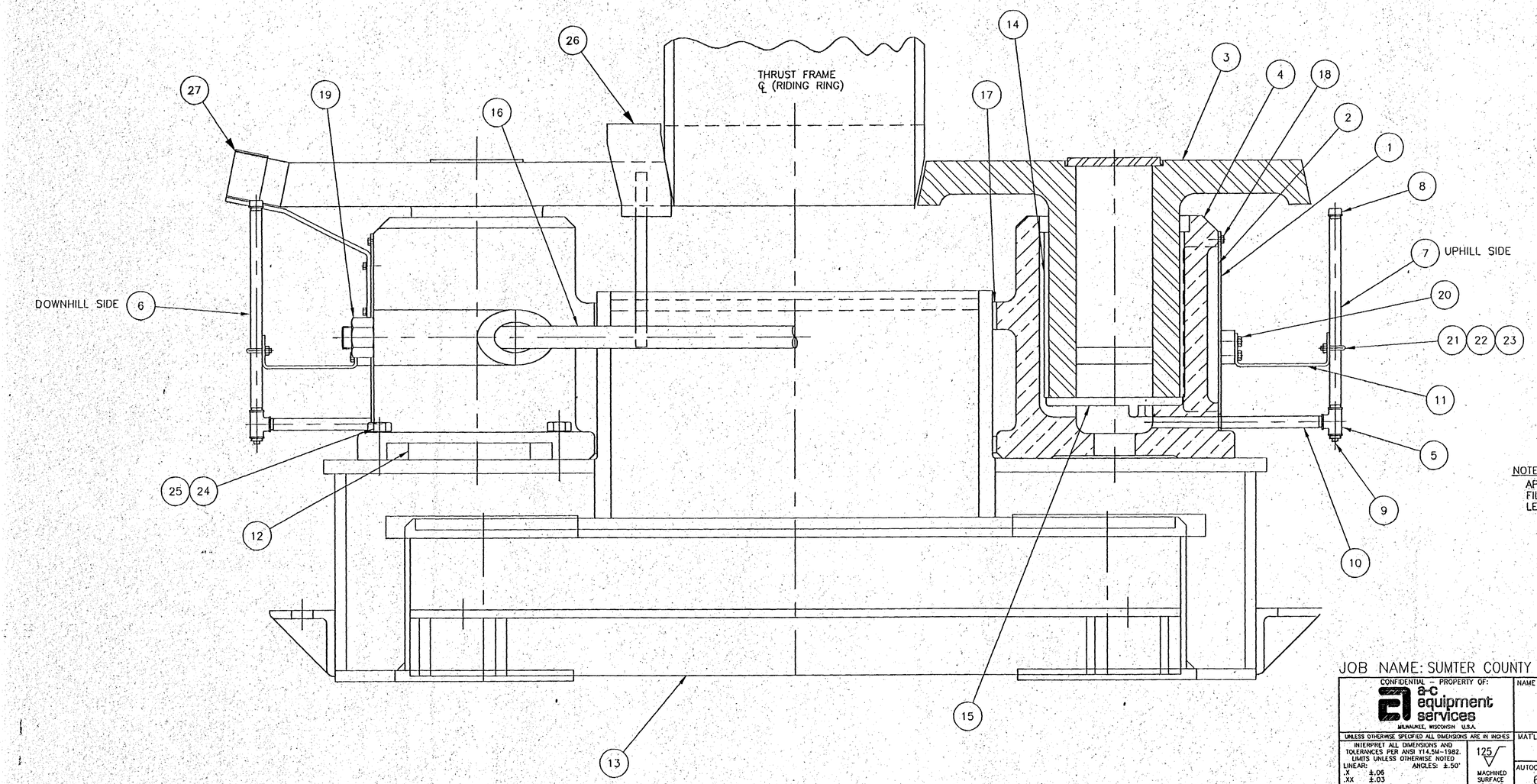
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION OCT 11 2001 SOUTHWEST DISTRICT TAMPA

OCT 10 2001

#	DESCRIPTION	DATE	APPROVED
00	PRELIMINARY RELEASE FOR QUOTE PURPOSES ONLY	8/15/2001	SMK
#	DESCRIPTION	DATE	APPROVED
01	ADDED ITEMS #26 & #27	09/26/2001	smk1
A	RELEASED FOR CONSTRUCTION	09/28/2001	smk1

1) (2) WATER JACKET COVER
2) (2) WATER JACKET COVER GASKET
3) (2) THRUST ROLLER
4) (2) THRUST BEARING HOUSING
5) (2) 1" PIPE TEE
6) (1) 1" PIPE X 19" LG. (DOWNHILL SIDE)
7) (1) 1" PIPE X 18"LG. (UPHILL SIDE)
8) (2) 1" PIPE CAP
9) (2) SQ.HEAD PIPE PLUG
10) (2) 1" PIPE X 10" LG.
11) (2) OIL PIPE SUPPORT
12) (4) THRUST BEARING RETAINING BLOCK
13) (1) THRUST CARRYING ASSEMBLY FRAME
14) (2) ROLLER BEARING BUSHING
15) (2) THRUST WEAR PLATE
16) (2) THRUST TIE ROD
17) (2) MOUNTING SHIM
18) (34) HHCS (0.38-16UNC-2B X 0.75" LG.)
19) (4) TIE ROD HEX NUT
20) (4) HHCS (0.50-13UNC X 1.50"LG.)
21) (2) U-BOLT, RND END, (0.38-16UNC X 2.00 LG. X 1.50)
22) (4) 0.38 PLAIN WASHER
23) (4) 0.38-16UNC HEX NUT
24) (8) HHCS (1.25-7UNC x 4.5"LG)
25) (8) 1.25 PLAIN WASHER
26) (4) PINCH GUARD
27) (2) LUBRICATOR



NOTE:
APPROX. AMOUNT OF OIL REQ'D TO FILL BEARING TO THE OPERATING OIL LEVEL IS 3.3 GAL.(12.5 LTRS)

JOB NAME: SUMTER COUNTY SOLID WASTE - BUSHNELL, FL.

CONFIDENTIAL - PROPERTY OF: a-c equipment services, MILWAUKEE, WISCONSIN U.S.A.

NAME: THRUST MECHANISM GENERAL ASSEMBLY

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982. LIMITS UNLESS OTHERWISE NOTED
LINEAR: .X ±.06, .XX ±.03, .XXX ±.01
ANGLES: ±.50'
125 MACHINED SURFACE TEXTURE

MAT'L

AUTOCAD FILE: 69-4136

WT R F

DR. smk 10/15/2001
CH. ____ ____
AP. ____ ____

JOB NO. BM01-3123

THIRD ANGLE PROJECTION

REFERENCE DWG:

SIZE D

SCALE 1:5

SHEET 1 OF 1

PART NO. 69-400-0136

REVISION A

REMOVE ALL BURRS, SHARP EDGES, ETC

Oct 02, 2001 - 14:38

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FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 11 2001
SOUTHWEST DISTRICT TAMPA

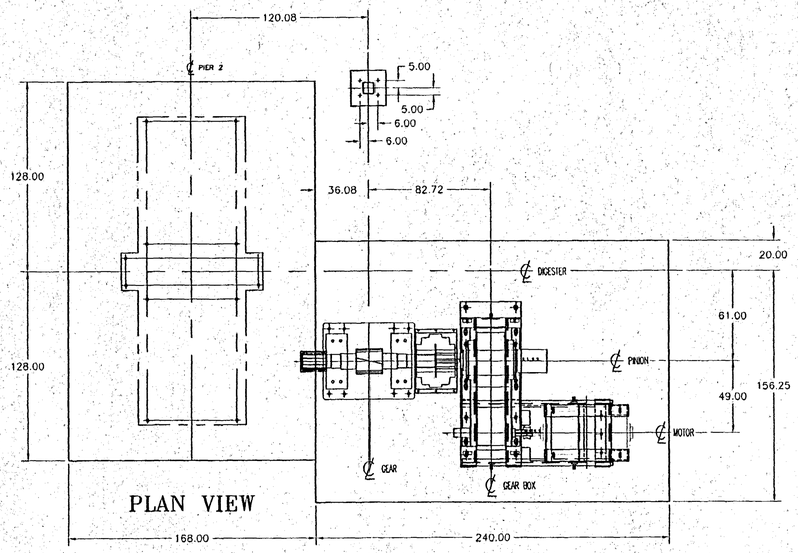
OCT 10 2001

(5)

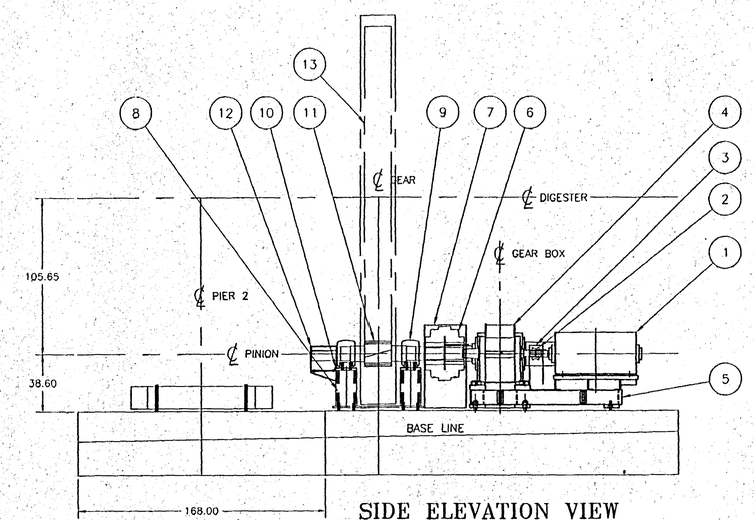
Parts List

ITEM	QTY	DESCRIPTION	DESCRIPTION 2	NOTE
1	1	MOTOR	2400 LBS	SEVER 300/150 HP 1200/600 RPM
2	1	HIGH SPEED COUPLING	56 LBS	FALK 110QT10
3	1	HIGH SPEED COUPLING GUARD		
4	1	REDUCER	10,260 LBS	FALK 526A-3 @ 85.94:1
5	1	REDUCER/MOTOR BASE	2,329 LBS	FALK
6	1	LOW SPEED COUPLING	3935 LBS	FALK 1220T10
7	1	LOW SPEED COUPLING GUARD	400 LBS	DWG 96-400-0131
8	1	PINION BASE	1,900 LBS	DWG 69-400-0141
9	2	PILLOW BLOCK BEARINGS	625 LBS EA.	SAF 23148
10	1	PILLOW BLOCK SHIMS		DWG 69-200-0020
11	1	PINION GEAR & SHAFT	2,450 LBS	FALK - 17 TEETH
12	1	PINION SHAFT EXTENSION COVER	75 LBS	DWG 69-400-0130
13	1	GIRTH GEAR	32,650 LBS	FALK - 226 TEETH

#	DESCRIPTION	DATE	APPROVED
00	PRELIMINARY RELEASE FOR QUOTE PURPOSES ONLY	SMK	8/15/2001
#	DESCRIPTION	DATE	APPROVED
01	CHANGED TO SEVER MOTOR @300 HP/ 1200 RPM	09/12/2001	smk1
A	RELEASED FOR CONSTRUCTION	09/28/2001	smk1



PLAN VIEW



SIDE ELEVATION VIEW

REMOVE ALL BURRS, SHARP EDGES, ETC

JOB NAME: SUMTER COUNTY SOLID WASTE - BUSHNELL, FL.

CONFIDENTIAL - PROPERTY OF: B-C equipment services, MILWAUKEE, WISCONSIN U.S.A.

NAME: BIOMIXER DRIVE GENERAL ARRANGEMENT

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982.
LIMITS UNLESS OTHERWISE NOTED
LINEAR: ANGLES: ±.50°
.X ±.06
.XX ±.03
.XXX ±.01

125 MACHINED SURFACE TEXTURE

MAT'L

AUTOCAD FILE: 69-4138

R WT F

DR. smk 10/15/2001
CH. ____ ____
AP. ____ ____

JOB NO. BM01-3123

SCALE 1/4"=1'0" SHEET 1 OF1

THIRD ANGLE PROJECTION

REFERENCE DWG:

SIZE D

PART NO. 69-400-0138

REVISION A

Oct 02, 2001 - 14:39

F:\Engineer\ACDWGS\BcMixers\SumterCo\BM01-3123\69-4138.dwg, 10/12/2001 02:40:17 PM, smk1, 1:48

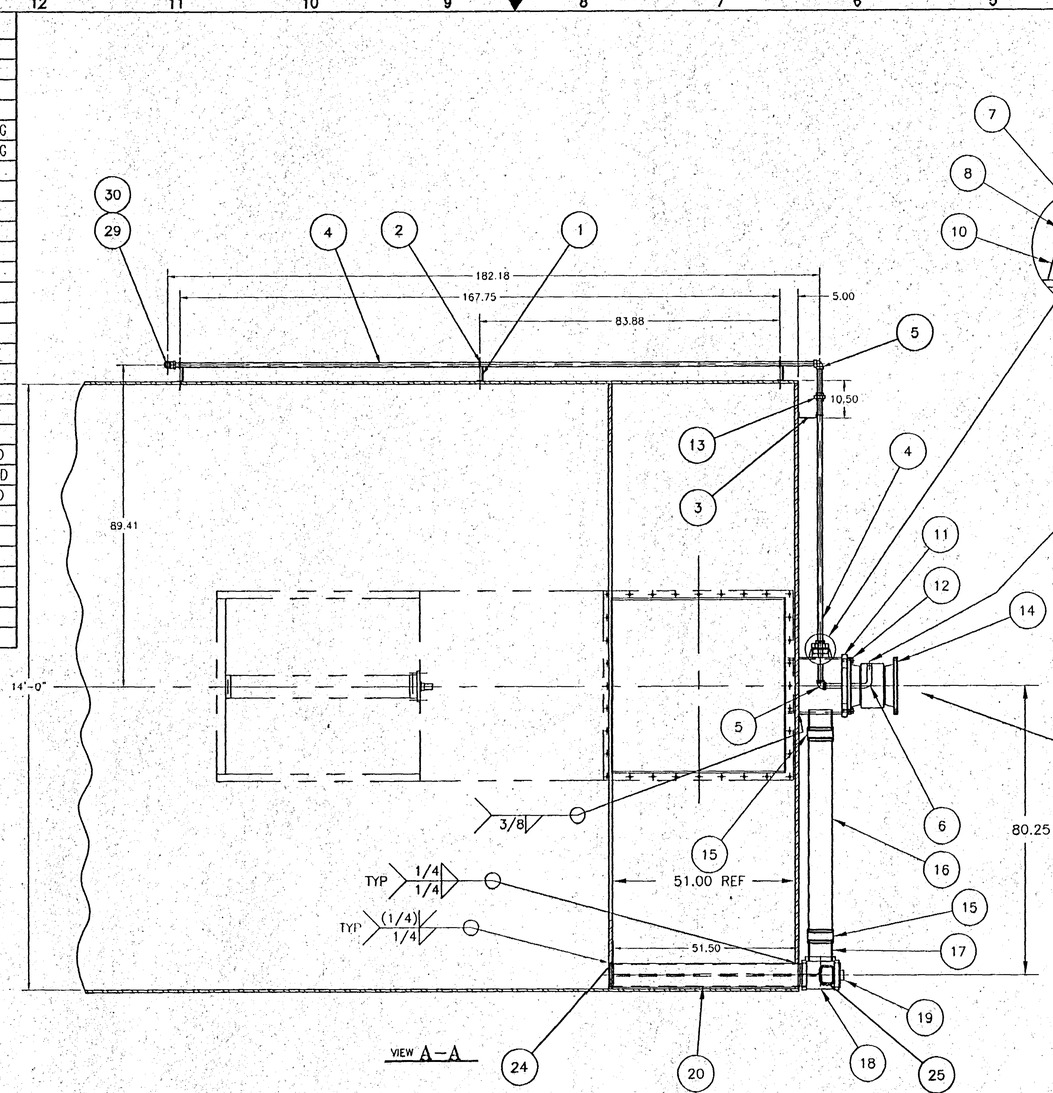
RECEIVED DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 11 2001
SOUTHWEST DISTRICT TAMPA

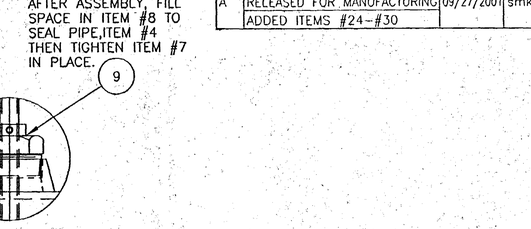
OCT 10 2001

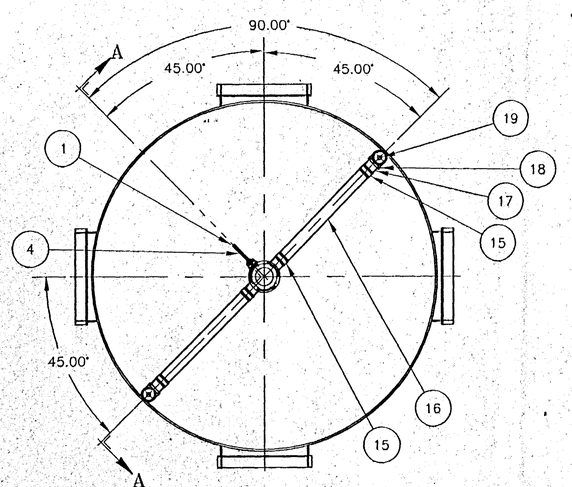
ITEM	QTY	DESCRIPTION	MAT'L SIZE	MAT'L	PART NO./NOTES
1	3	SUPPORT BRACKET	C4x5.4 CHANNEL x 2.25" LG	ASTM A-36	MANUFACTURED
2	4	U-BOLT	1" IPS, 3/8-16 THD		
3	1	SUPPORT BRACKET	3/16" x 2-1/2" x 7.85" LG		MANUFACTURED
4	24 FT	PIPE	1" Sch 40		THREADED BOTH ENDS
5	2	ELBOW - 90°	1" NPT		SUPPLIED WITH COUPLING
6	1	PIPE	1" Sch 40		SUPPLIED WITH COUPLING
7	1	SHAFT COLLAR	1 3/8" I.D.		MODIFIED
8	1	PIPE PLUG	4" NPT		MANUFACTURED
9	1	BLUE RTV SEALANT			
10	1	THREADED ANVILET	4" NPT		
11	1	MANIFOLD	ø16" x 12" LG		MANUFACTURED
12	12	HEX BOLT	7/8-9 x 2 1/2" LG	GR2	
13	1	UNION	1" NPT	A105	
14	1	SWIVEL JOINT w/O-RING FLANGE SEALS	10"		ROTARY SYSTEMS
15	4	FLEXIBLE PIPE COUPLING	6" IPS		
16	2	TUBE	6 5/8" OD x 12Ga x 54" LG		
17	2	NIPPLE	6" Sch 40 x 6" LG		
18	2	STRAIGHT TEE	6" NPT		
19	2	PIPE PLUG	6" NPT	CAST IRON	
20	2	PIPE	6" Sch 40 x 55" LG		
21	1	PIPE	16" Sch 40 x 12" LG		83 LBS, FOR MANIFOLD
22	2	PIPE	6" Sch 40 x 6.0" LG		9.5 LBS, FOR MANIFOLD
23	1	FLANGE PLATE	1-3/4" x ø17.50" OD		80 LBS, FOR MANIFOLD
24	2	SCREEN STOP	1/2" x ø6.00 OD x ø5.00 ID	ASTM A-36	1.2 LBS
25	2	DEBRIS SCREEN/CLEANER		ASTM A-36	9 LBS
26	2	SCREEN	1/2" x ø5.82" OD	ASTM A-36	1.5 LBS
27	2	POSITIONER	1/2" x ø5.82" OPD	ASTM A-36	1 LB
28	2	HANDLE	ø5/8" ROD x 72.91" LG	ASTM A-36	6.4 LBS
29	1	TEE	1" NPT	A105	
30	1	PIPE PLUG	1" NPT	A105	

#	DESCRIPTION	DATE	APPROVED
00	PRELIMINARY RELEASE FOR QUOTE PURPOSES ONLY	9/26/2001	SMK

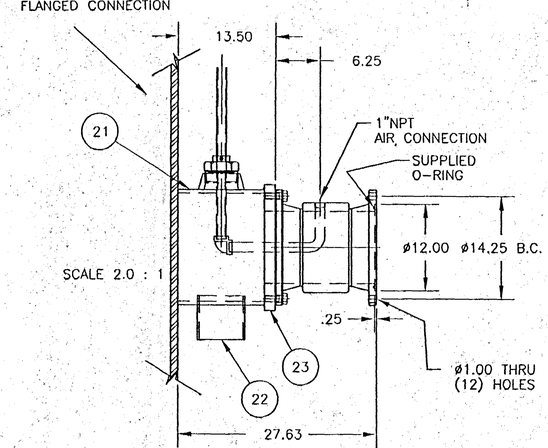
#	DESCRIPTION	DATE	APPROVED
A	RELEASED FOR MANUFACTURING	09/27/2001	smk1
	ADDED ITEMS #24-#30		







SCALE 1.0 : 2



1" AIR IN THREADED CONNECTION ON SWIVEL

10" AIR IN FLANGED CONNECTION

JOB NAME: SUMTER COUNTY SOLID WASTE - BUSHNELL, FL.

CONFIDENTIAL - PROPERTY OF: a-c equipment services, MILWAUKEE, WISCONSIN U.S.A.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982. LIMITS UNLESS OTHERWISE NOTED
LINEAR: ANGLES: ±.50°
.X ±.06
.XX ±.03
.XXX ±.01

125 MACHINED SURFACE TEXTURE

REMOVE ALL BURRS, SHARP EDGES, ETC

NAME	AIR INJECTION SYSTEM & ACTUATING AIR SUPPLY		
MAT'L	SEE PARTS LIST		
AUTOCAD FILE:	69-4152A	WT R F	
DR. smk 10/26/2001	JOB NO. BM01-3123	THIRD ANGLE PROJECTION	REFERENCE DWG:
CH.	SCALE 1:20	SHEET 1 OF 3	SIZE D
AP.	PART NO. 69-400-0152		REVISION A

Oct 02, 2001 - 14:21

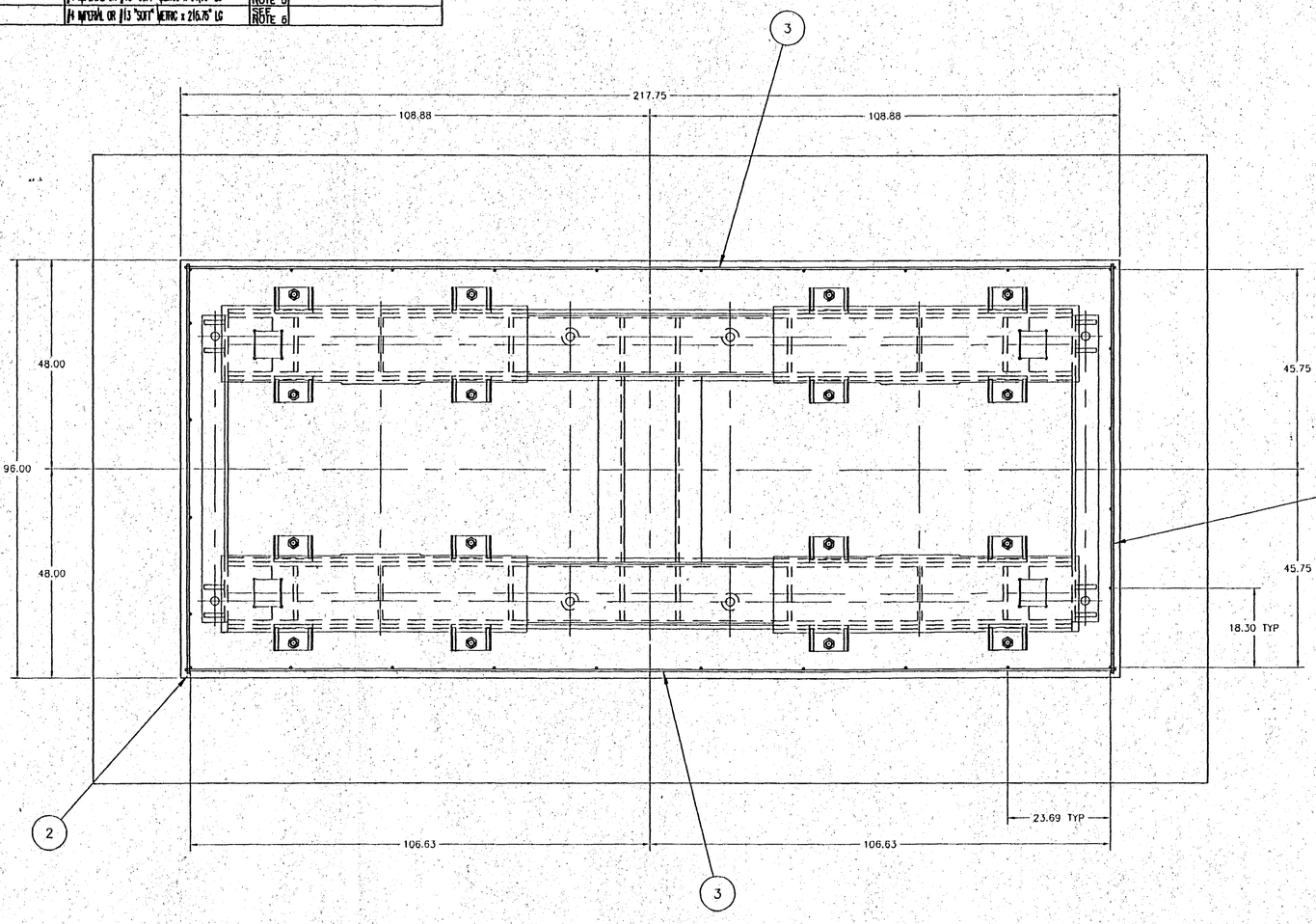
F:\Engineer\ACDWGS\BioMasers\SumterCo\BM01-3123\69-4152A.dwg, 10/02/2001 02:21:38 PM, smk1

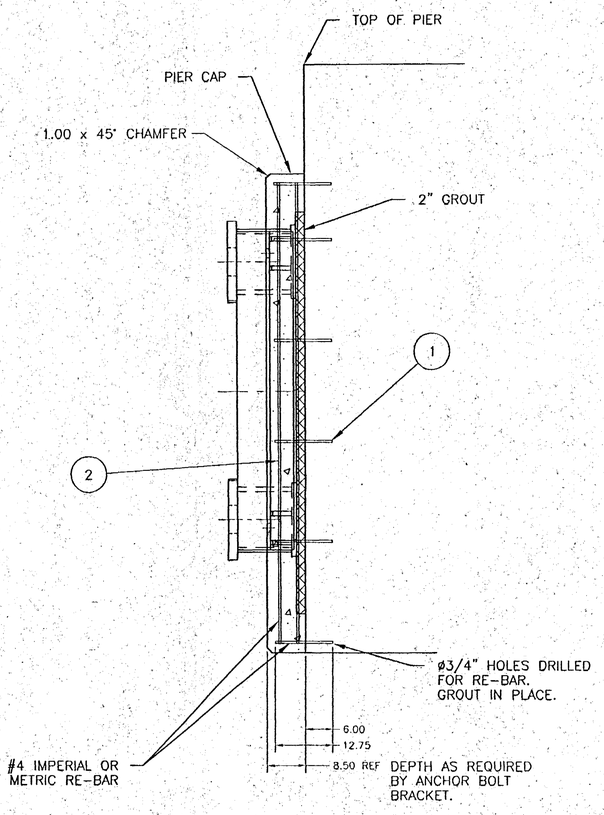
RECEIVED DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 11 2001
SOUTHWEST DISTRICT
TAMPA, FL

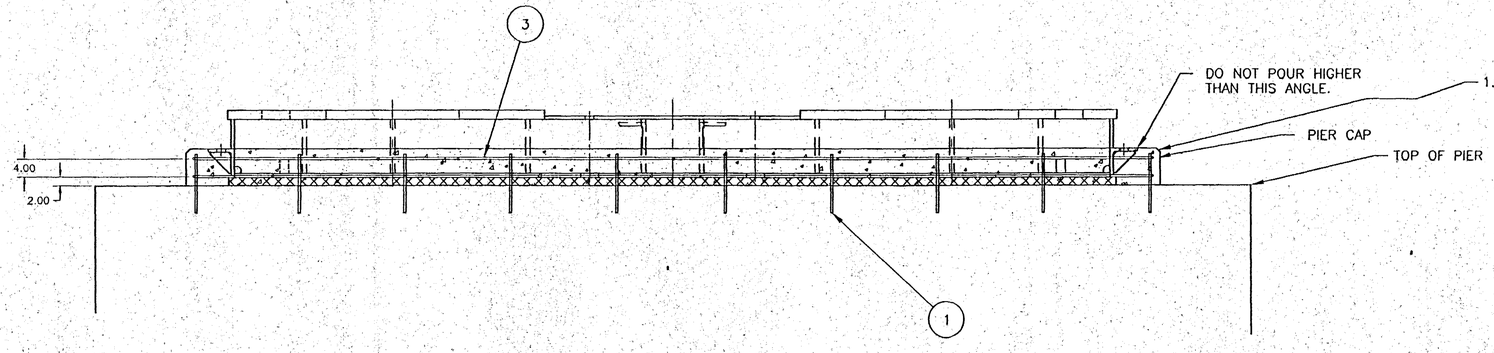
OCT 10 2001

ITEM	QTY	DESCRIPTION	MAT'L SIZE	MAT'L	PART NO./NOTES
1	28	REBAR – VERTICAL	#4 IMPERIAL OR #13 "SOFT" METRIC x 12.75" [324] LG	SEE NOTE 6	
2	4	REBAR	#4 IMPERIAL OR #13 "SOFT" METRIC x 94.00" LG	SEE NOTE 6	
3	4	REBAR	#4 IMPERIAL OR #13 "SOFT" METRIC x 216.75" LG	SEE NOTE 6	

#	DESCRIPTION	DATE	APPROVED
00	PRELIMINARY RELEASE FOR QUOTE PURPOSES ONLY	9/25/2001	SMK
#	DESCRIPTION	DATE	APPROVED
A	RELEASED FOR CONSTRUCTION	10/02/2001	smk1







NOTE:
1. TIE RE-BAR AS REQUIRED TO HOLD POSITION.
2. SEE DWG #69-400-0133 FOR DRAIN PIPE INSTALLATION.
3. PIER TOP TO BE BRUSHED CLEAN.
4. SURFACE OF PIER CAP TO BE BULL FLOATED AND BROOM FINISHED.
5. REINFORCING BAR MATERIAL TO BE ASTM A615 OR EQUIVALENT.
6. BONDING AGENT TO BE USED. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR SURFACE PREPARATION.
7. APPLY CURING COMPOUND TO PIER CAP.
8. PIER CAP TO BE A MINIMUM OF 3,500 PSI CONCRETE OR EQUIVALENT.

REMOVE ALL BURRS, SHARP EDGES, ETC

JOB NAME: SUMTER COUNTY SOLID WASTE

CONFIDENTIAL – PROPERTY OF:
a-c equipment services
MILWAUKEE, WISCONSIN U.S.A.

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982.
LIMITS UNLESS OTHERWISE NOTED
LINEAR: ANGLES: ±.50°
.X ±.06
.XX ±.03
.XXX ±.01
125 MACHINED SURFACE TEXTURE

NAME: PIER CAP INSTALLATION PLAIN FRAME
MAT'L: SEE PARTS LIST
AUTOCAD FILE: 69-4154A
WT R F

DR. smk 10/25/2001
CH. ——— ———
AP. ——— ———
JOB NO. BM01-3123
SCALE 3/4"=1'0"
SHEET 1 OF 2
THIRD ANGLE PROJECTION
REFERENCE DWG:
SIZE D
PART NO. 69-400-0154
REVISION A

F:\Engineer\ACDWGS\BoM\temp\SumterCo\BM01-3123\69-4154A.dwg, 10/02/2001 02:45:09 PM, smk1

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 11 2001
SOUTHWEST DISTRICT

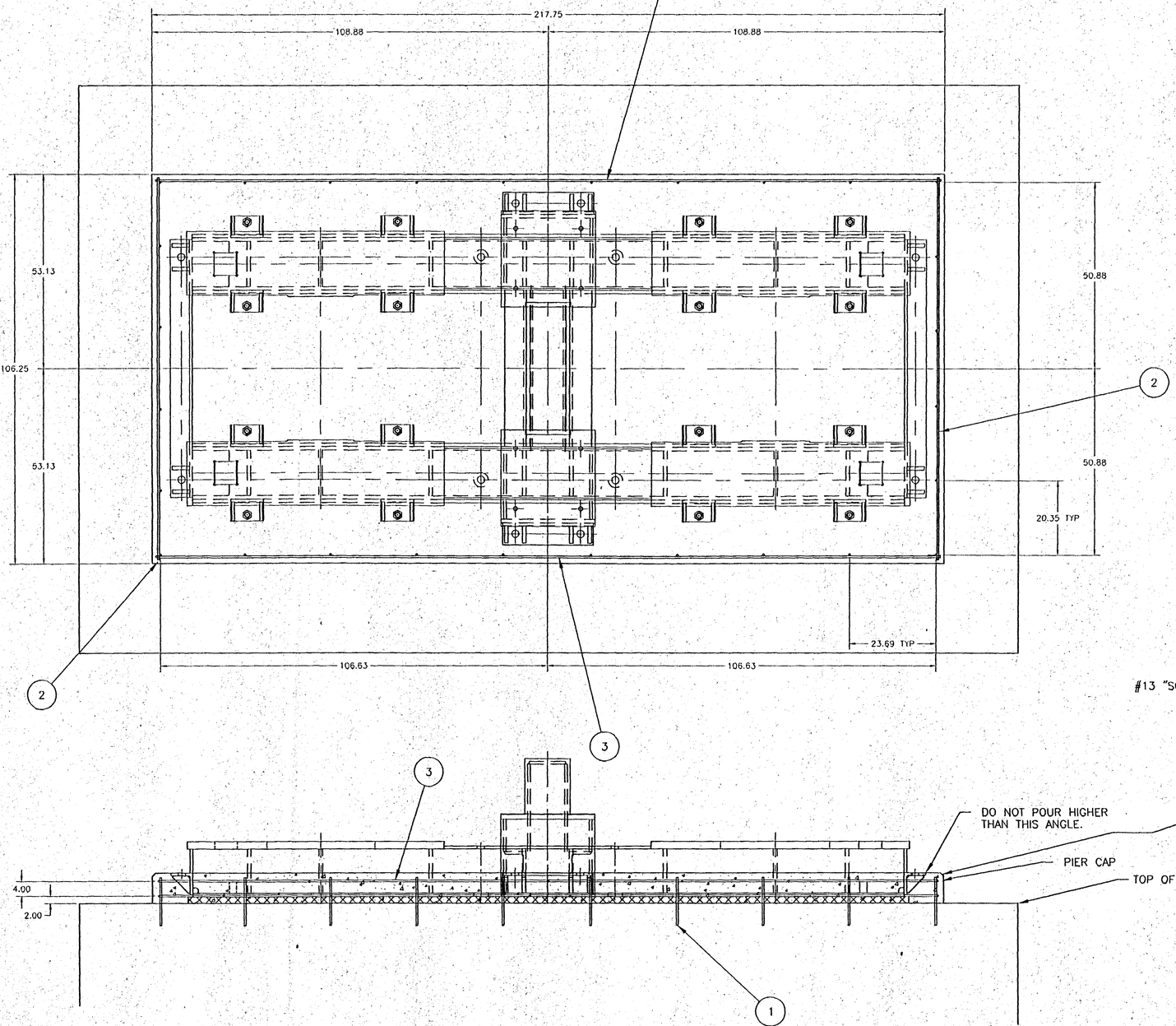
OCT 10 200

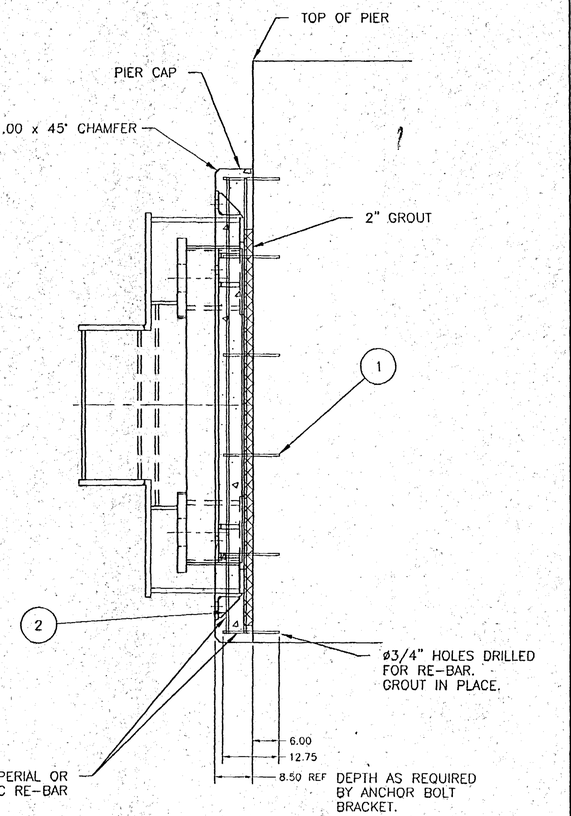
Oct 02, 2001 – 14:48

(8)

ITEM	QTY	DESCRIPTION	MAT'L SIZE	MAT'L	PART NO./NOTES
1	28	REBAR – VERTICAL	#4 IMPERIAL OR #13 "SOFT" METRIC x 12.75" LG	SEE NOTE 5	
2	4	REBAR	#4 IMPERIAL OR #13 "SOFT" METRIC x 104.25" LG	SEE NOTE 5	
3	4	REBAR	#4 IMPERIAL OR #13 "SOFT" METRIC x 216.75" LG	SEE NOTE 5	

#	DESCRIPTION	DATE	APPROVED
00	PRELIMINARY RELEASE FOR QUOTE PURPOSES ONLY	9/25/2001	SMK
#	DESCRIPTION	DATE	APPROVED
A	RELEASED FOR CONSTRUCTION	10/02/2001	smk1





NOTE:
1. TIE RE-BAR AS REQUIRED TO HOLD POSITION.
2. SEE DWG #69-400-0133 FOR DRAIN PIPE INSTALLATION.
3. PIER TOP TO BE BRUSHED CLEAN.
4. SURFACE OF PIER CAP TO BE BULL FLOATED AND BROOM FINISHED.
5. REINFORCING BAR MATERIAL TO BE ASTM A615 OR EQUIVALENT.
6. BONDING AGENT TO BE USED. FOLLOW MANUFACTURERS RECOMMENDATIONS FOR SURFACE PREPARATION.
7. APPLY CURING COMPOUND TO PIER CAP.
8. PIER CAP TO BE A MINIMUM OF 3,500 PSI CONCRETE OR EQUIVALENT.

JOB NAME: SUMTER COUNTY SOLID WASTE

CONFIDENTIAL – PROPERTY OF: S-C equipment services, MILWAUKEE, WISCONSIN U.S.A.

NAME: PIER CAP INSTALLATION THRUST FRAME

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982.
UNITS UNLESS OTHERWISE NOTED
LINEAR: ANGLES: ±.50°
.X ±.06
.XX ±.03
.XXX ±.01
125 MACHINED SURFACE TEXTURE

MAT'L: SEE PARTS LIST

AUTOCAD FILE: 69-4154B

WT R F

DR. smk 10/25/2001
CH.
AP.

JOB NO. BM01-3123

SCALE 3/4"=1'0" SHEET 2 OF2

THIRD ANGLE PROJECTION

REFERENCE DWG:

SIZE D

PART NO. 69-400-0154

REVISION A

REMOVE ALL BURRS, SHARP EDGES, ETC

Oct 02, 2001 – 14:50

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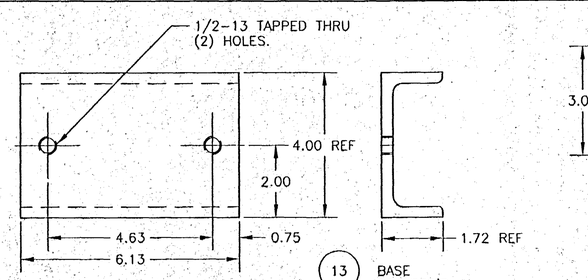
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 11 2001
SOUTHWEST DISTRICT TAMPA

OCT 10 2001

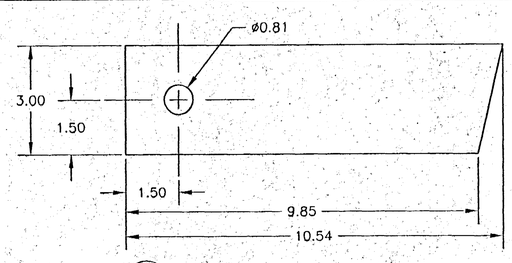
ITEM	QTY	DESCRIPTION	MAT'L SIZE	MAT'L	PART NO./NOTES
1	60 FT	SUPPLY LINE	1-1/8"O.D. x .050" WALL	COPPER	1" NOMINAL, TYPE L
2	35 FT	SUPPLY LINE - VALVE TO CYLINDER	7/8"O.D. x .045" WALL	COPPER	3/4" NOMINAL, TYPE L
3	4	4-WAY AIR CONTROL VALVE	3/4" NPT		NOPAK P/N H4A-6-SRN
4	4	MALE BRANCH TEE	1-1/8"O.D. TUBE x 3/4" NPT		COMPRESSION FITTING
5	8	MALE 90° ELBOW	7/8"O.D. TUBE x 3/4" NPT		COMPRESSION FITTING
6	2	MALE UNION	1-1/8"O.D. TUBE x 1" NPT		COMPRESSION FITTING
7	8	MALE UNION	7/8"O.D. TUBE x 3/4" NPT		COMPRESSION FITTING
8	8	SUPPORT LEG	1/2" x 3.0" x 10.54"LG	A36	4.3 LBS
9	8	HEX BOLT	3/4"-10 x 2.0"LG	GRADE 2	
10	8	HEX NUT	3/4"-10	GRADE G	
11	16	FLAT WASHER	3/4"		
12	4	EXHAUST MUFFLER/FILTER	3/4" NPT		
13	4	BASE	C4x7.25 x 6.13" LG	A-36	
14	8	HEX BOLT	1/2-13 x 1.25" LG	GRADE 2	

#	DESCRIPTION	DATE	APPROVED
00	PRELIMINARY RELEASE	10/2/2001	SMK
	FOR QUOTE PURPOSES ONLY		

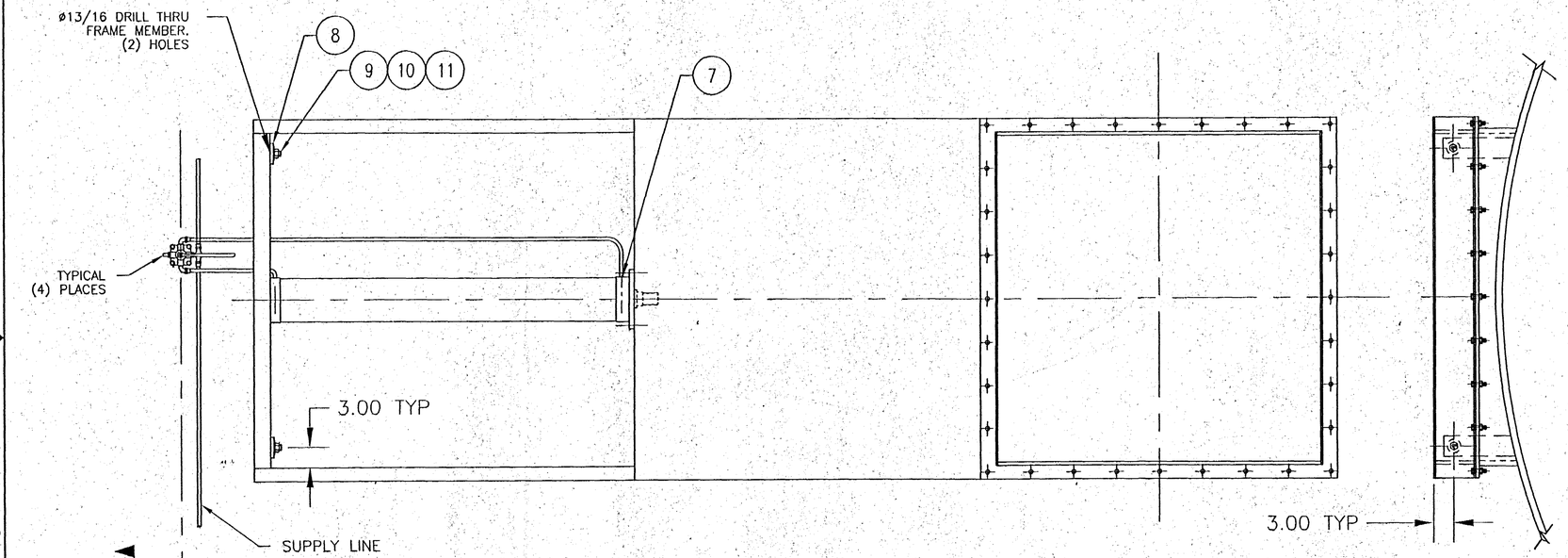
#	DESCRIPTION	DATE	APPROVED
A	RELEASED FOR MANUFACTURING	10/02/2001	smk1



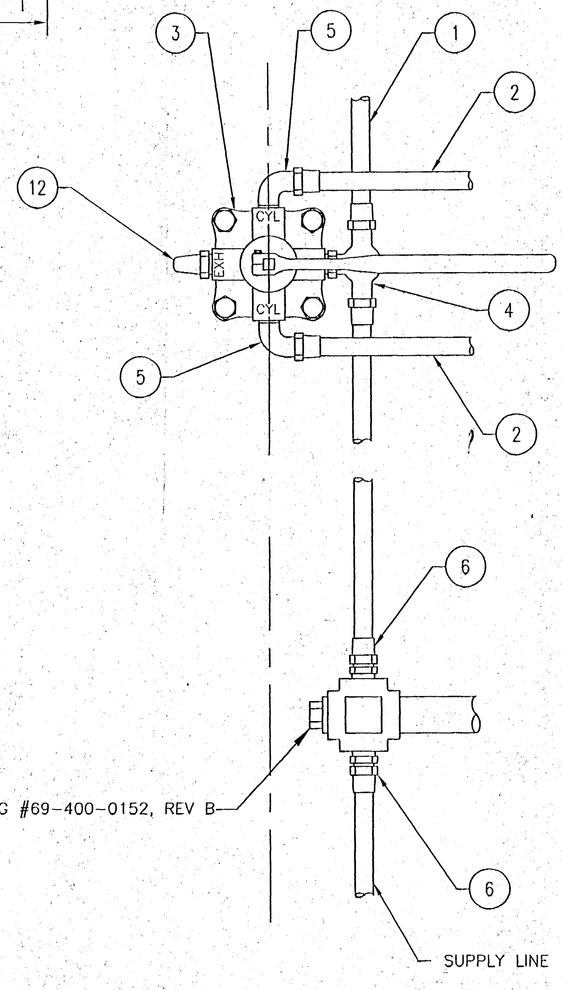
13 BASE
QTY REQ'D : 4
MATR'L : A36
STOCK : C4x7.25 x 6.13" LG
SCALE : 5x
WEIGHT : 3.7 LBS



8 SUPPORT LEG
QTY REQ'D : 12
MATR'L : A36
STOCK : 1/2" x 3.0" x 10.54"LG
SCALE : 5x
WEIGHT : 4.3 LBS



DETAIL AIR CONNECTIONS FOR HYDRAULIC CYLINDERS SEE DWG#69-400-0152



ITEM #30, DWG #69-400-0152, REV B

JOB NAME: SUMTER COUNTY SOLID WASTE

CONFIDENTIAL - PROPERTY OF: a-c equipment services, MILWAUKEE, WISCONSIN U.S.A.

NAME: CYLINDER AIR SUPPLY DISCHARGE DOOR

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982.
LIMITS UNLESS OTHERWISE NOTED
LINEAR: ANGLES: ±.50°
.X ±.06
.XX ±.03
.XXX ±.01
125 MACHINED SURFACE TEXTURE

MAT'L: SEE PARTS LIST

AUTOCAD FILE: 69-4157

WT R F

DR. smk1 10/02/2001
CH. ____ ____
AP. ____ ____

JOB NO. BM01-3123

THIRD ANGLE PROJECTION

REFERENCE DWG:

SIZE D

SCALE 1:10

SHEET 1 OF 1

PART NO. 69-400-0157

REVISION A

REMOVE ALL BURRS, SHARP EDGES, ETC

Oct 02, 2001 - 13:47

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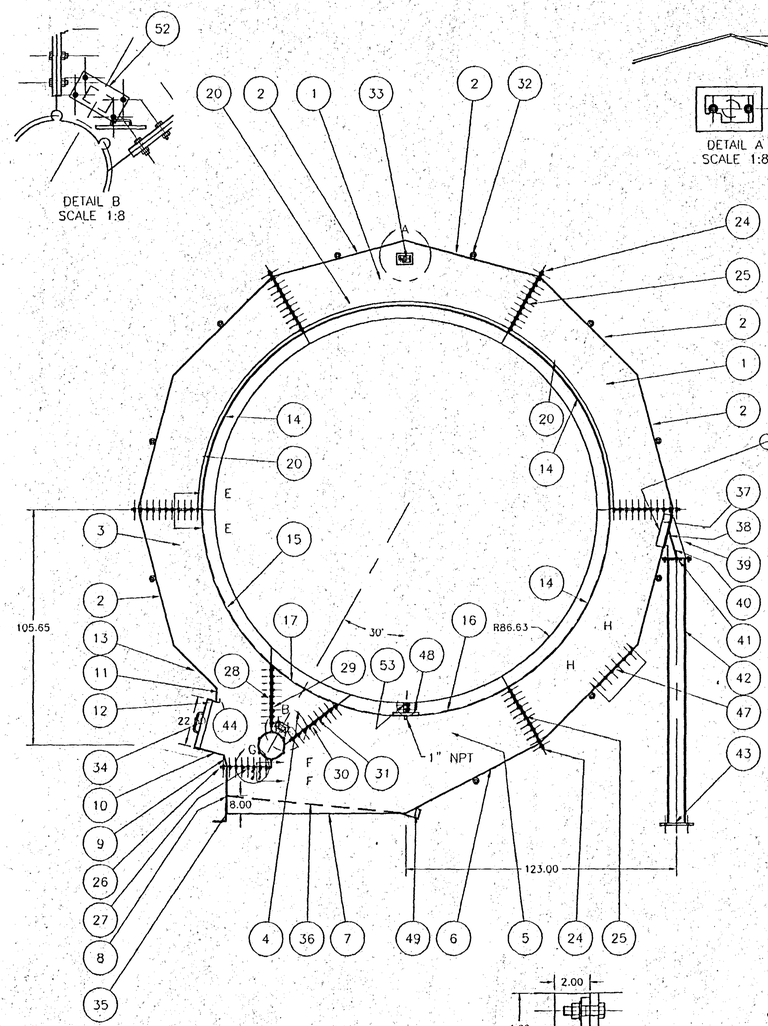
(10)

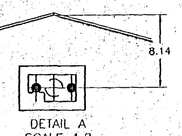
Parts List

ITEM	QTY	NAME	DESCRIPTION	MATERIAL	NOTE
1	8	SIDE PLATE UPPER	.25 x 46.47 x 86.63	ASTM A-36	242 LBS
2	8	END PLATE	.25 X 24.25 X 62.59	ASTM A-36	107 LBS
3	2	SIDE PLATE	.25 X 60.32 X 115.40	ASTM A-36	262 LBS
4	2	COVER PLATE	.25 X 36.02 X 44.15	ASTM A-36	51 LBS
5	2	COVER PLATE, BOTTOM	.25 X 61.30 X 141.59	ASTM A-36	373 LBS
6	1	COVER PLATE, LOWER	.25 X 24.25 X 67.99	ASTM A-36	117 LBS
7	1	COVER PLATE, BOTTOM	.25 X 24.25 X 81.12	ASTM A-36	139 LBS
8	1	COVER PLATE	.25 X 24.25 X 20.67	ASTM A-36	35 LBS
9	1	COVER PLATE	.25 X 24.25 X 4.96	ASTM A-36	8 LBS
10	1	COVER PLATE	.25 X 24.25 X 13.60	ASTM A-36	23 LBS
11	1	COVER PLATE	.25 X 24.25 X 5.94	ASTM A-36	10 LBS
12	1	COVER PLATE	.25 X 24.25 X 4.12	ASTM A-36	7 LBS
13	1	COVER PLATE	.25 X 24.25 X 27.40	ASTM A-36	47 LBS
14	8	ROLLED ANGLE	L6 X 6 X 5/16" X 60" X 86.63 I.R.	ASTM A-36	115 LBS
16	1	ROLLED ANGLE	L6 X 6 X 5/16 X 70.90 X 86.63 I.R.	ASTM A-36	88 LBS
16	1	ROLLED ANGLE	L6 X 6 X 5/16 X 70.94 X 86.63 I.R.	ASTM A-36	99 LBS
17	2	ROLLED ANGLE	L6 X 6 X 5/16 X 42.33 X 86.63 I.R.	ASTM A-36	52 LBS EA
18	218	HEX NUT	1/2-13 UNC		
19	218	HEX BOLT	1/13UNC X 1.75" LG		
20	6	DRIP ANGLE	L2 X 2 X 1/4 X R92.19 X 60°	ASTM A-36	25 LBS EA
24	10	JOINT BAR, END	.50" X 3.00" X 30.50"	ASTM A-36	13 LBS EA
25	10	JOINT BAR, SIDE	.50" X 3.00" X 28.94"	ASTM A-36	12 LBS EA
26	2	JOINT BAR	.50" X 3.50" X 30.50"	ASTM A-36	15 LBS
27	4	JOINT BAR	.50 X 3.50 X 19.26	ASTM A-36	12 LBS EA
28	2	JOINT BAR	.50 X 3.50 X 27.89	ASTM A-36	13.8 LBS EA
29	2	JOINT BAR	.50 X 3.50 X 27.45	ASTM A-36	13.6 LBS EA
30	2	JOINT BAR	.50 X 3.50 X 27.48	ASTM A-36	13.6 LBS
31	2	JOINT BAR	.50 X 3.50 X 27.14	ASTM A-36	13.5 LBS EA
32	10	LIFTING EYE	1.25 ID X 2.620D	FORGED	M.C. #3024T26
33	1	KOZAR HOLE			
34	2	COVER	2.50 X 22.88 X 25.00 X .12	ASTM A-36	30 LBS
35	1	MOUNTING ANGLE	L8 X 6 X 1/2 X 24.00	ASTM A36	46 LBS
36	1	OIL SUMP PLATE	.25 X 24.00 X 78.95	ASTM A-36	134 LBS
37	2	SIDE PLATE	.50 X 14.75 X 4.00	ASTM A-36	8.3 LBS
38	1	MOUNTING PLATE	.50 X 14.75 X 24.50	ASTM A-36	50 LBS
39	2	GANTRY LEG SUPPORT	.50 X 17.81 X 9.16	ASTM A-36	13 LBS
40	1	STIFFENER	.50 X 6.75 X 11.89	ASTM A-36	11 LBS
41	1	SPLICE PLATE	.50 X 13.00 X 13.00	ASTM A-36	24 LBS
42	1	GANTRY LEG BEAM	W8 X 31 X 118.18	ASTM A-36	305 LBS
43	1	BASE PAD	1.00 X 15.00 X 15.00	ASTM A-36	64 LBS
44	1	DRIP LIP	L1.5 X 1.5 X 23.50	ASTM A36	
45	1	HEX BOLT	1/2 X 13UNC X 3/4" LG		
46	1	FLAT WASHER	1/2"		
47	1	INSPECTION COVER	.25 X 23.00 X 23.00	ASTM A-36	38 LBS
48	1	DRIP PAN	L2.5 X 1.5 X 1/4 X 12"	ASTM A-36	3 LBS
49	1	DRAIN PIPE	4"NPT X 8" LG	SCH 40	
50	9	DRIP RING SEGMENT	L2 X 2 X 1/4	ASTM A-36	129 LBS
51	3	DRIP RING SEG W/ ANGLE	1.5 X 5.63 X 74.51 I.R. X 120°	ASTM A-36	152 LBS
52	1	PITCH LINE WINDOW	.25" X 3.25" X 6.00"	CLEAR LEXAN	B
53	1	WIPER ASSEMBLY			B

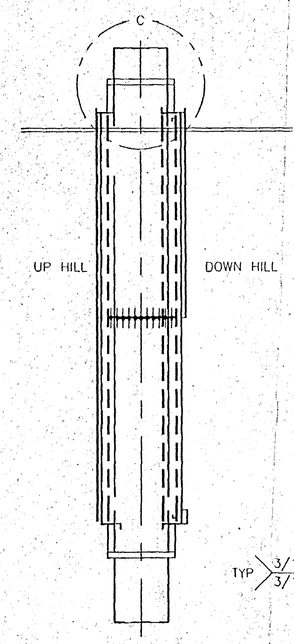
#	DESCRIPTION	DATE	APPROVED
00	PRELIMINARY RELEASE	8/16/01	
	FOR QUOTE PURPOSES ONLY		
#	DESCRIPTION	DATE	APPROVED
A	ADD ITEMS #36 THRU #51, ELIMINATE ITEM #21,22,23	09/18/01	mbs
	ITEM # 20 WAS L4 X4		
B	ADD ITEMS #52 & 53, ADD NOTE #7	10/3/01	mbs
	ADD DIM TO DETAIL C		

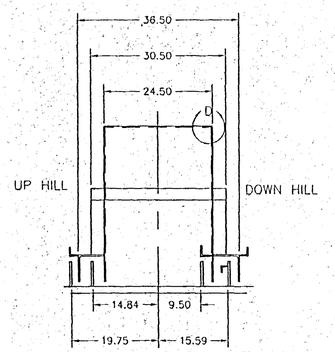


DETAIL B
SCALE 1:8

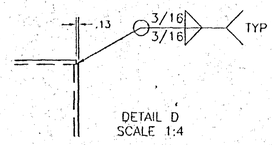


DETAIL A
SCALE 1:8

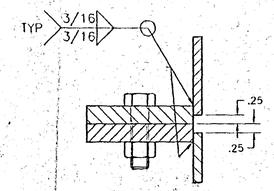




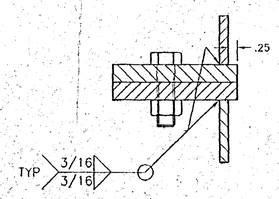
DETAIL C
SCALE 1:16



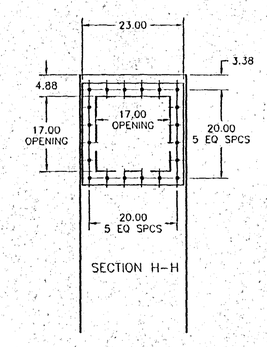
DETAIL D
SCALE 1:4



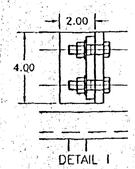
SECTION E-E
SCALE 1/2



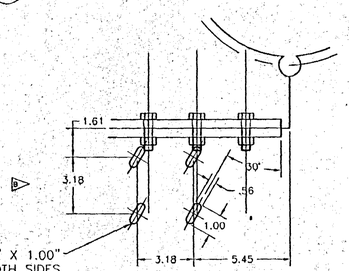
SECTION F-F
SCALE 1/2



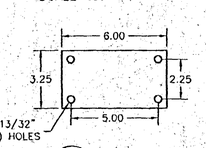
SECTION H-H



DETAIL I
SCALE 1:4



DETAIL G
SCALE 1:4



52 PITCH LINE WINDOW
QTY REQ'D :1
MATR'L : CLEAR POLYCARBONATE
STOCK : .25 X 3.25 X 6.00
SCALE :
WEIGHT :

NOTES:
1. STRAIGHTEN AS REQUIRED AFTER WELDING.
2. PAINT EXTERIOR OF GEAR GUARD WITH 2 COATS OF GREY PRIMER
3. PAINT INSIDE SURFACE WITH WHITE CRANK CASE SEALER PER ACM 5-31.
4. ITEMS #35, #50 & #51 FOR INSTALLATION IN THE FIELD
5. ALL WELDS ARE TO BE OIL TIGHT.
6. ALL PARTS ARE TO BE FREE OF WELD SPATTER.
7. CUT 2" X 4" HOLE IN ITEM #16 TO ALLOW FOR WIPER SEE DETAIL I

REMOVE ALL BURRS, SHARP EDGES, ETC

JOB NAME: SUMTER COUNTY SOLID WASTE - BUSHNELL, FL

CONFIDENTIAL - PROPERTY OF: a-c equipment services, MILWAUKEE, WISCONSIN U.S.A.

NAME: GEAR GUARD GENERAL ASSEMBLY

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ANSI Y14.5M-1982.
LIMITS UNLESS OTHERWISE NOTED
LINEAR: .X ±.06, .XX ±.03, .XXX ±.01 ANGLES: ±.50°
125 MACHINED SURFACE TEXTURE

MAT'L: ASTM A-36 / ASTM A-36

AUTOCAD FILE: 69-4144A

WT R F

DR. mbs 08/16/01
CH.
AP.

JOB NO. BM01-3123

REFERENCE DWG:

SIZE D

SCALE 3/8"=1'0" SHEET 1 OF1

THIRD ANGLE PROJECTION

PART NO. 69-400-0144

REVISION B

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
OCT 11 2001
SOUTHWEST DISTRICT TAMPA

F:\Engineer\ACDWG\BaMaxim\SumterCo\BM01-3123\69-4144A.dwg, 10/03/01 01:42:40 PM, mbs,

OCT 10 2001