Weaver
CONSTRUCTION MANAGEMENT
3679 S Huron Street, Suite 404 Englewood, Colorado 80110
Phone: (303) 789-4111 FAX: (303) 789-4310

SUBMITTAL TRANSMITAL

February 23, 2012
Submittal #: 02709-004.A

PROJECT: **Harold Thompson Regional WRF**
Birdsall Rd.
Fountain, CO 80817
Job No. 2908

ENGINEER: **GMS, Inc.**
611 No. Weber St., #300
Colorado Springs, CO 80903
719-475-2935 Roger Sams

OWNER: **Lower Fountain Metropolitan Sewage Disposal District**
901 S. Santa Fe Ave.
Fountain, CO 80817
719-382-5303 James Heckman

CONTRACTOR: **Firebaugh Precast, Inc.**
719-392-9036
mheim@firebaughprecast.com

SUBJECT: Resubmittal for Valve Access Manholes (MH-1 & MH-6)

SPEC SECTION: 02709

PREVIOUS SUBMISSION DATES: 2/15/12

DEVIATIONS FROM SPEC: ___ YES _x_ NO

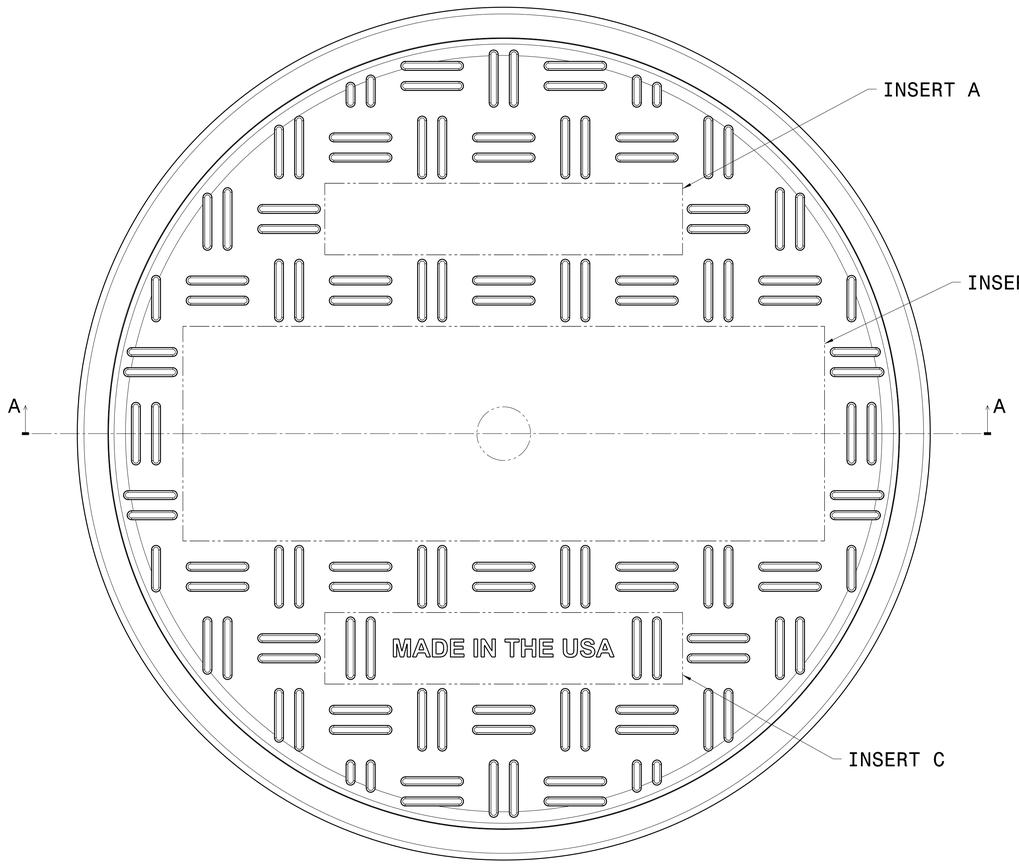
CONTRACTOR'S STAMP: This submittal has been reviewed by Weaver Construction Management and, unless indicated otherwise, has been found to be in conformance with the intent of the contract documents.

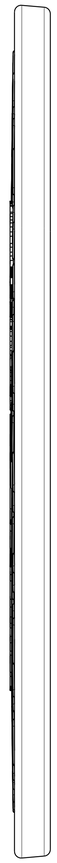
Contractor's Stamp:	Engineer's Stamp:
Date: Reviewed by: Jeff Burst (X) Reviewed Without Comments ( ) Reviewed With Comments	

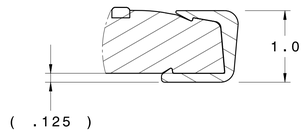
ENGINEER'S COMMENTS:_____
_____

PART NUMBER	TYPE	LOADING	MATERIAL	COLOR	INSERTS	INSERT QTY.	LOCK	INSERT 'A'	INSERT 'B'	INSERT 'C'
2400-101	MHC	HWY	RTM	GRAY	8-32	3			BROOKLINE WW	MADE IN USA
2400-102	MHC	HWY	RTM	GRAY	8-32	3	MCG		BROOKLINE WW	MADE IN USA
2404-001	MHC	SHD	RTM	BLACK			MAG			MADE IN USA
2404-002	MHC	SHD	RTM	BLACK						MADE IN USA
2404-003	MHC	SHD	RTM	BLACK			MAG			MADE IN USA
2404-004	MHC	SHD	RTM	BLACK						MADE IN USA
2404-005	MHC	SHD	RTM	BLACK			MAG			MADE IN USA
2404-202	MHC	SHD	RTM	BLUE			MAG	RECLAIMED	BROOMFIELD	MADE IN USA
2404-302	MHC	SHD	RTM	LAVENDER			MAG	RECLAIMED	BROOMFIELD	MADE IN USA
2404-303	MHC	SHD	RTM	LAVENDER			MAG		TREAD PATERN	MADE IN USA
2404-009	MHC	HWY	RTM	BLACK				WATER	CITY OF FARMINGTON	MADE IN USA

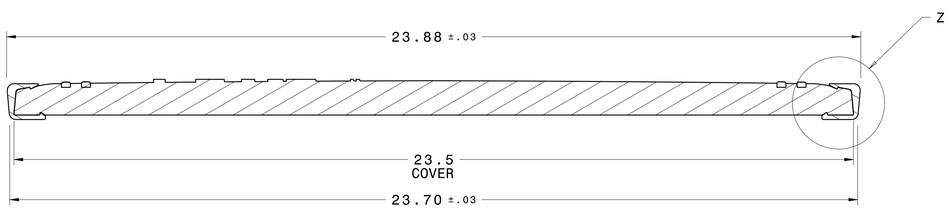
REV	DATE	DESCRIPTION	INIT
01	06/10/08	INITIAL RELEASE	XXX
02	12/19/08	ADDED PN# 2404-009	XXX







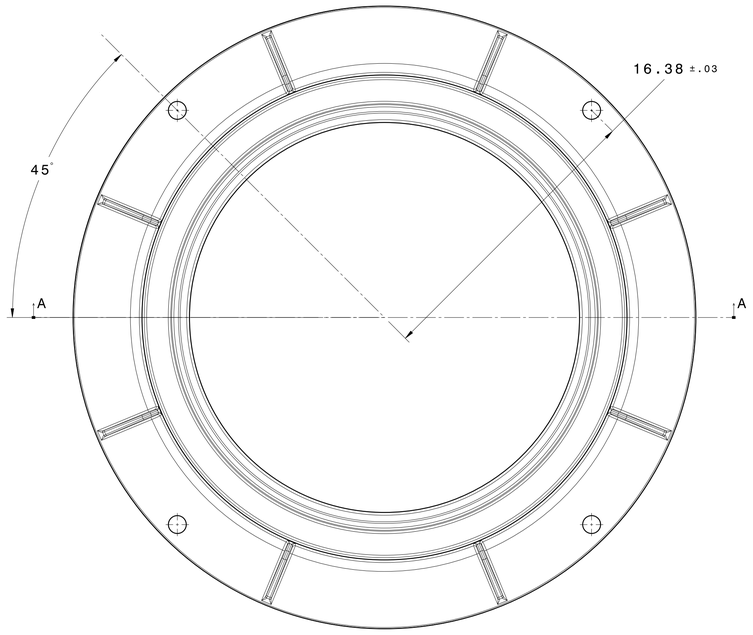
Detail Z
Scale: 1:1

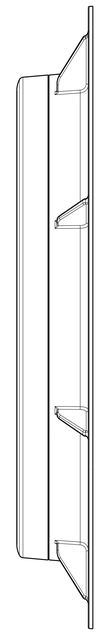


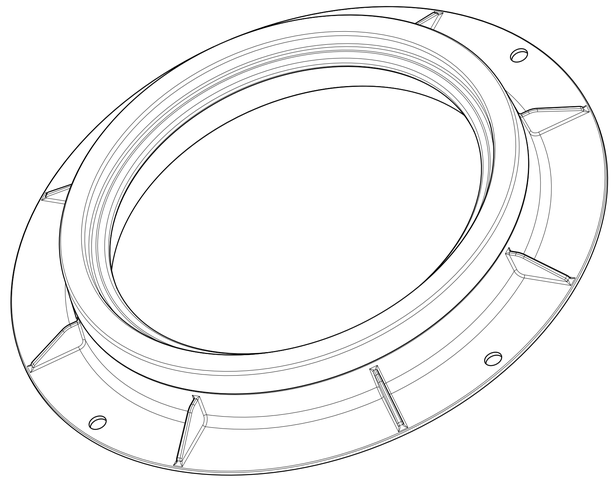
Section cut A-A

TOLERANCE UNLESS OTHERWISE SPECIFIED ONE PLACE ±0.03 TWO PLACE ±0.015 THREE PLACE ±0.005 ANGLE ±1.0' DRAFT ANGLE 3.0'	This drawing is the property of GMI Composites. It can't be reproduced or communicated without our written agreement.	**GMI COMPOSITES, INC.** 1355 W. SHERMAN BLVD. MUSKEGON, MI 49441
	DRAWN BY B.BUXTON — DATE 06/10/08	DRAWING TITLE: 24" COVER
	CHECKED BY XXX — DATE XXX	SIZE D — DRAWING NUMBER 2400 — REV 01
	DESIGNED BY XXX — DATE XXX	SCALE 1:2 — VOLUME: 386.4in3 — SHEET 1/2

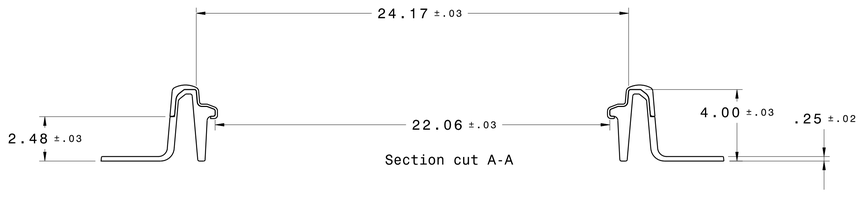
REV	DATE	DESCRIPTION	INIT
01	06/10/08	INITIAL RELEASE	XXX







Isometric view
Scale: 1:4



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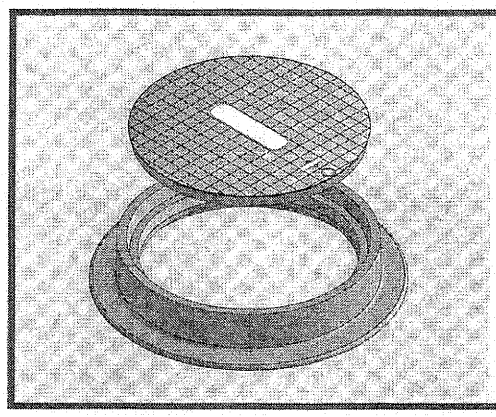
ONE PLACE ±0.03 TWO PLACE ±0.015 THREE PLACE ±0.005 ANGLE ±1.0° DRAFT ANGLE 3.0°	DRAWN BY B.BUXTON — DATE 06/10/08 CHECKED BY XXX — DATE XXX DESIGNED BY XXX — DATE XXX	DRAWING TITLE: 24" FRAME		
		SIZE D	DRAWING NUMBER 2400	REV 01
		SCALE 1:2	VOLUME:	SHEET 1/2

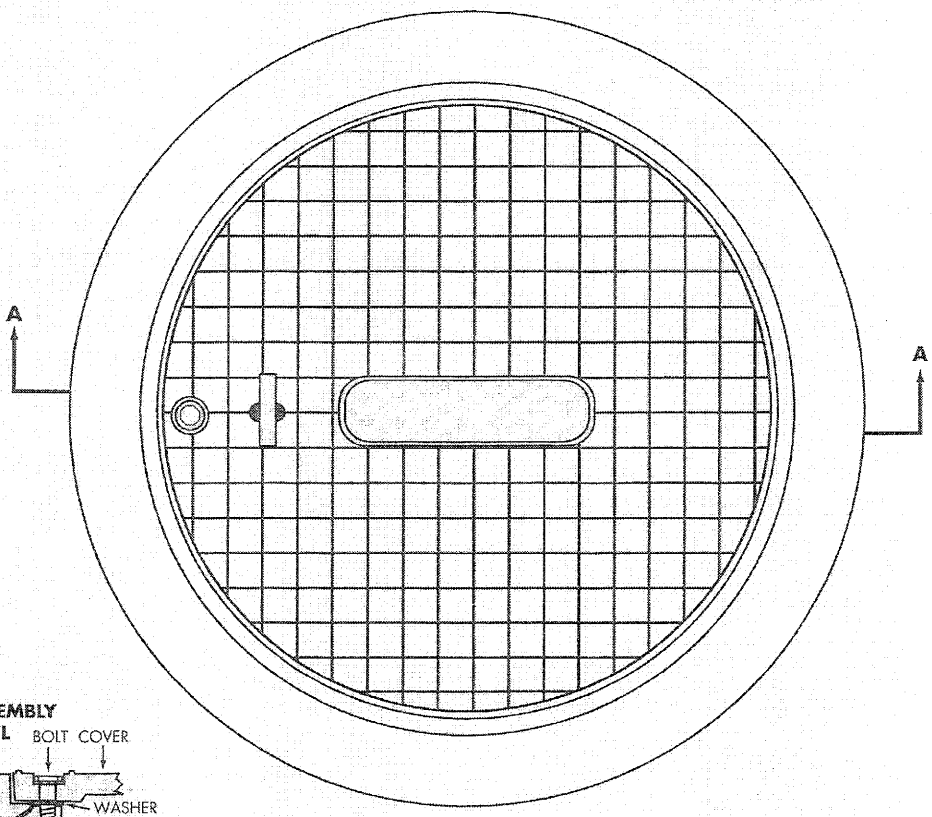


MH55032RAL

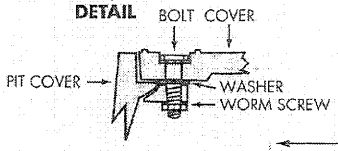
APPROXIMATE WEIGHT

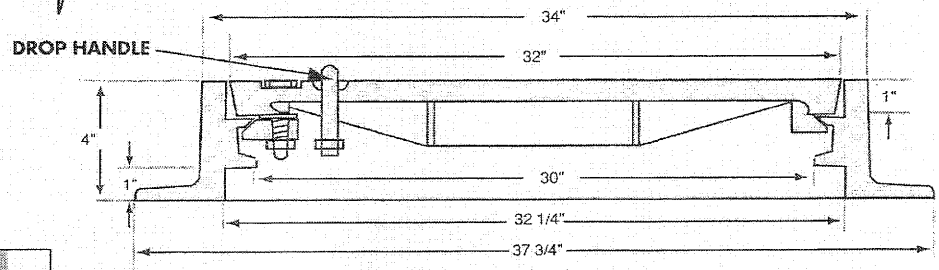
COVER	88 lb
RING	75 lb

NOTE:
NAMEPLATES—OPTIONAL
MACHINED LID AND RING SEAT



LOCK ASSEMBLY DETAIL





SECTION A–A

Job Name: Harold Thompson WRF
Quote ID: 2012010027

Full 01

Structure ID: **MH-01**

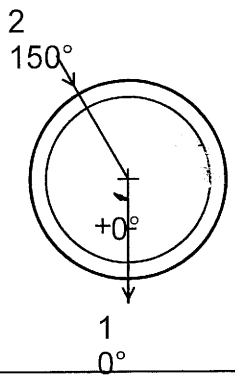
Spec: General
Type: Sanitary Sewer w/invert
Size: 72"

Rim: 24.83'
Invert: 17.55'
Catch: 2.004"

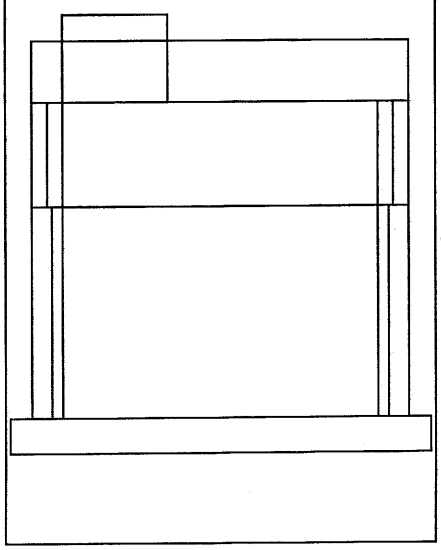
Rim to Invert: 7.28'
Overall Height: 8.334'

1) 24" - Ring & Cover - 4"sewer - COMPOSITE
1) 72" - H20-Eccentric - H20 w/24" opening
1) 72" - Riser - 72"X24"
1) 72" - Base w/invert <20" - 72" X 48"
2) 72" - 1 1/2" CS-102 - Sealant
2) 30" - PSX - 34B

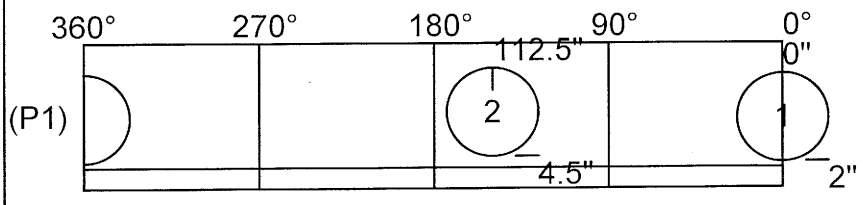
NO STEPS



Position	Elev	Angle	Pipe	Connector
Rim	24.83'			
Reducer				
Invert 1	17.55'	0°	30" CI/DI	30" PSX 34B
Invert 2	17.75'	150°	30" CI/DI	30" PSX 34B
Invert 3				
Invert 4				
Invert 5				
Invert 6				
Invert 7				
Invert 8				



OUTSIDE WALL DIMENSIONS



(P1) - 72" - Base w/invert <20" - 72" X 48"

Job Name: Harold Thompson WRF
Quote ID: 2012010027

Full 01

Structure ID: **MH-06**

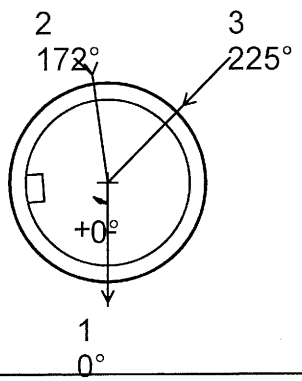
Spec: General
Type: FLAT Bottom
Size: 72"

Rim: 106.83'
Invert: 97'
Catch: 6"

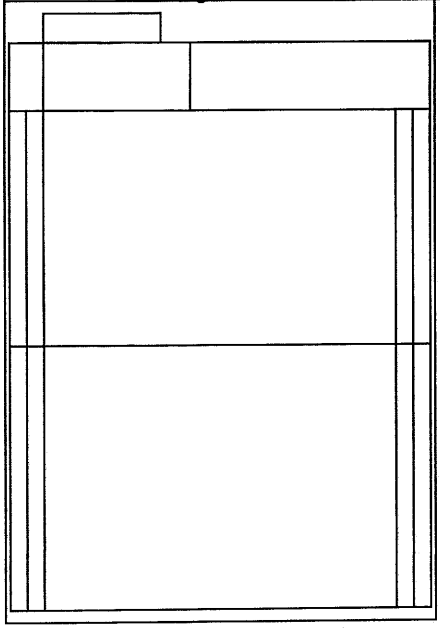
Rim to Invert: 9.83'
Overall Height: 10.167'

1) 24" - Ring & Cover - 4"sewer ALUMINUM
1) 72" - H20-Eccentric - H20 w/30" opening
1) 72" - Riser - 72"X48"
1) 72" - Flat Bottom Riser - 72"X54"
2) 72" - 1 1/2" CS-102 - Sealant
1) 16" - PSX - 22L
2) 15" - PSX - 18M

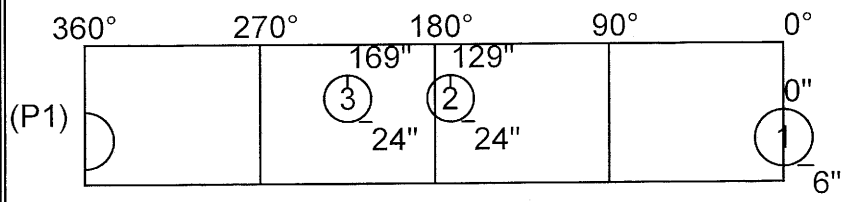
NO STEPS



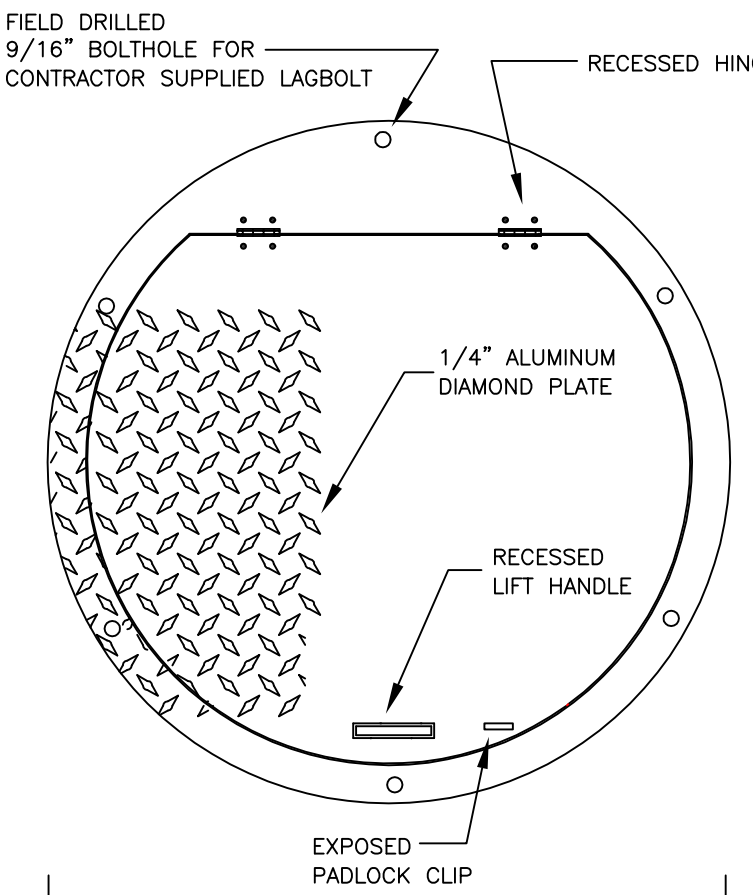
Position	Elev	Angle	Pipe	Connector
Rim	106.83'			
Reducer				
Invert 1	97'	0°	18" CI/DI	16" PSX 22L
Invert 2	98.5'	172°	14" CI/DI	15" PSX 18M
Invert 3	98.5'	225°	14" CI/DI	15" PSX 18M
Invert 4				
Invert 5				
Invert 6				
Invert 7				
Invert 8				



OUTSIDE WALL DIMENSIONS



(P1) - 72" - Flat Bottom Riser - 72"X54"



DRAWING NOT TO SCALE

NOTES:

1.) STYLE "TB" ACCESS HATCH, AS MANUFACTURED BY SYRACUSE CASTINGS.

2.) UNIT DESIGNED TO BE PEDESTRIAN RATED FOR 300 PSF LOADS.

3.) UNIT SUPPLIED WITH AN EXPOSED PADLOCK CLIP (SEE DETAIL THIS PAGE)

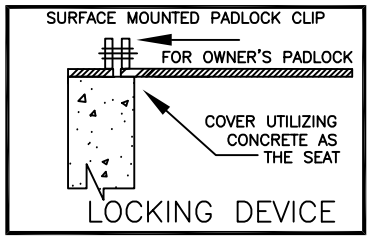
4.) COVER EQUIPPED WITH A HOLD OPEN ARM TO LOCK COVER OPEN IN THE 90 DEGREE POSITION.

5.) MATERIAL SHALL BE ALUMINUM.

6) "B" DIMENSION MUST BE SUPPLIED TO HATCH MANUFACTURER BEFORE FABRICATION CAN BEGIN.

8) TOP OF CONCRETE MUST BE SMOOTH TO ALLOW COVER TO UTILIZE CONCRETE AS THE SEAT (SEE DETAIL).

9) DUE TO PLATE SIZE LIMITATIONS, UNIT TOP COVER WILL BE SPLICE-WELDED TOGETHER TO FORM ONE SINGLE PIECE OF COVER PLATE.



"B" DIMENSION
SPECIFY WALL THICKNESS
_____

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"TB" PEDESTRIAN RATED ALUMINUM BASIN COVER FOR 48"ID STRUCTURE

DRAWN BY: ROBYN	DATE: 2-22-12	DRAW # TB-48ID

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