ISSUE REMARKS/DATE

1	10-16-2012, INITIAL SUBMITTAL
2	11-29-2012, CITY COMMENTS
3	1-14-2013, CITY & DCSD COMMENTS
4	2-20-2013, CITY COMMENTS

PROJECT TITLE

BOARDWALK GARDENS

O'FALLON, MISSOURI

THE STERLING CO.
ENGINEERS & SURVEYORS
5055 New Baumgartner Road
St. Louis, Missouri 63129
Ph 314-487-0400 Fax 314-487-8944
http://www.sterling-eng-surv.com
Corporate Certificate of Authority #001348

The Professional Engineer's seal and signature affixed to this sheet applies only to the material and information on this sheet. All drawing, instruments or other documents not prepared by this engineer shall not be considered prepared by this engineer, and this engineer expressly disclaims any and all responsibility for such plans, drawings or documents not exhibiting this seal and signature.

Date:
MICHAEL G. BOERDING
License No. E-28643
Civil Engineer

MCBRIDE RED HAWK, LLC
16091 SWINGLEY RIDGE ROAD, SUITE 300
CHESTERFIELD, MISSOURI 63017
PH. 636-537-2000
Contact: Jeff Boland

SANITARY SEWER DETAILS

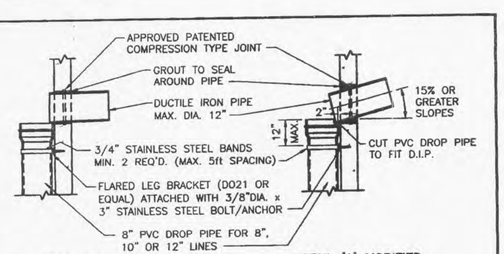
P+Z No. 9831.34.09.01
City No.
Date: OCT.16, 2012
Job No. 12-05-128

Page No.

DTL-5

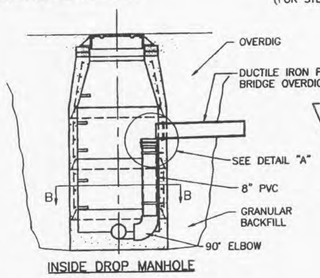
IMP

"Final Plan" Approval Date: November 1, 201

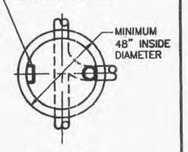


DETAIL 'A' STANDARD DROP PIPE

DETAIL 'A' MODIFIED MODIFIED DROP PIPE
(FOR STEEP INFLUENT GRADES)



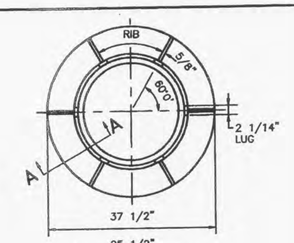
INSIDE DROP MANHOLE



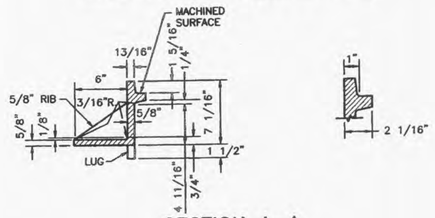
SECTION B-B

NOTE:
ALL INVERTS SHALL HAVE POSITIVE DRAINAGE THROUGH MANHOLE.

Duckett Creek Sanitary District				
INSIDE DROP MANHOLE	Dwn By: BSM	App By: KLA	Detail No.	10
	Chd By: MDOB	Date: 01-10-00		

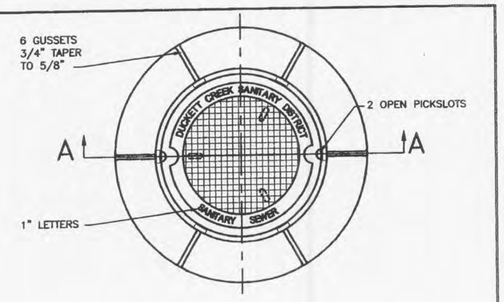


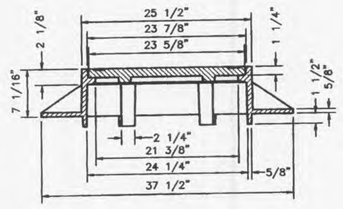
CAST IRON MANHOLE FRAME



SECTION A-A
(230 lbs)

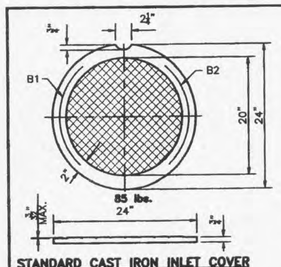
Duckett Creek Sanitary District				
CAST IRON MANHOLE FRAME	Dwn By: BSM	App By: KLA	Detail No.	11
	Chd By: MDOB	Date: 01-14-00		





SECTION A-A

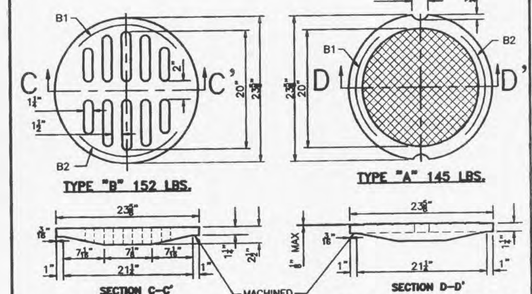
Duckett Creek Sanitary District				
MANHOLE FRAME AND COVER	Dwn By: BSM	App By: KLA	Detail No.	12
	Chd By: MDOB	Date: 01-14-00		



STANDARD CAST IRON INLET COVER

MACHINE CONTACTING SURFACES FOR SEAT OF STANDARD MANHOLE FRAME AND BEARING SURFACE COVER.

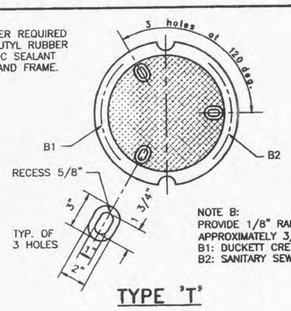
NOTE B:
PROVIDE 1/8" RAISED LETTERING APPROXIMATELY 3/4" TO 1" HIGH
B1: DUCKETT CREEK SANITARY DISTRICT
B2: SANITARY SEWER



STANDARD CAST IRON MANHOLE COVERS

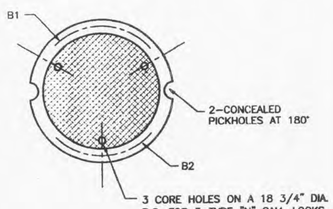
Duckett Creek Sanitary District				
CAST IRON COVERS MANHOLES AND INLETS	Dwn By: BSM	App By: KLA	Detail No.	13
	Chd By: MDOB	Date: 12-22-00		

NOTE:
IF WATERTITE COVER REQUIRED USE APPROVED BUTYL RUBBER PREFORMED MASTIC SEALANT BETWEEN COVER AND FRAME.



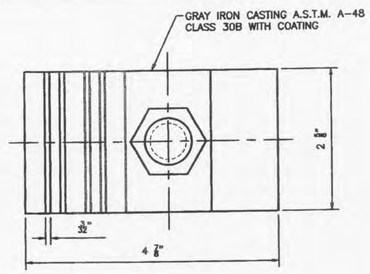
NOTE B:
PROVIDE 1/8" RAISED LETTERING APPROXIMATELY 3/4" TO 1" HIGH
B1: DUCKETT CREEK SANITARY DISTRICT
B2: SANITARY SEWER

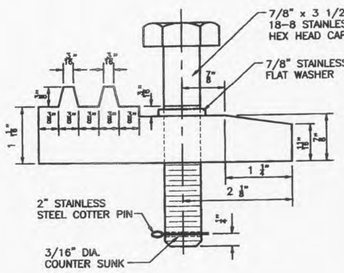
TYPE 'T'



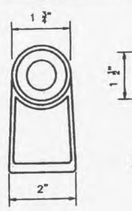
TYPE 'N'

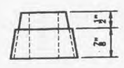
Duckett Creek Sanitary District				
CAST IRON MANHOLE COVERS (LOCK TYPE)	Dwn By: BSM	App By: KLA	Detail No.	14
	Chd By: MDOB	Date: 12-27-00		



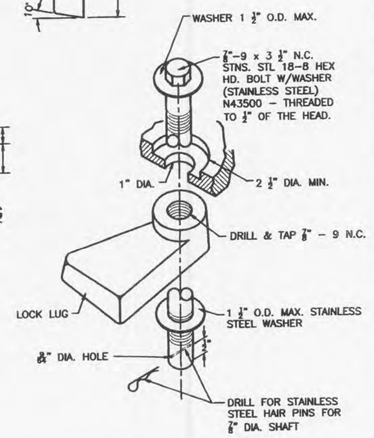


Duckett Creek Sanitary District				
LOCKING DEVICE FOR TYPE "T" LOCK TYPE MANHOLE COVER	Dwn By: BSM	App By: KLA	Detail No.	15
	Chd By: MDOB	Date: 12-27-00		

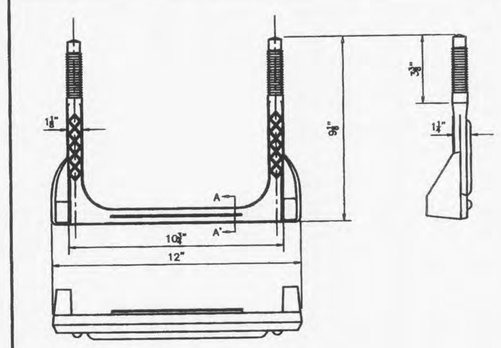


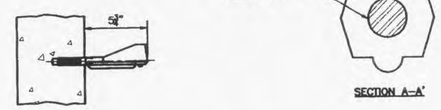


LOCK LUG
N.T.S.



Duckett Creek Sanitary District				
LOCKING DEVICE FOR TYPE "N" LOCK TYPE MANHOLE COVER	Dwn By: BSM	App By: KLA	Detail No.	16
	Chd By: MDOB	Date: 12-28-00		





COPOLYMER POLYPROPYLENE PLASTIC

Duckett Creek Sanitary District				
MANHOLE STEP PRECAST MANHOLE	Dwn By: BSM	App By: KLA	Detail No.	18
	Chd By: MDOB	Date: 1-3-01		