

Name: L-A083BD1 From Node: N-A083B Length(ft): 48.00
 Group: RR To Node: N-A083A Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 12.00	12.00	Flow: Both
Rise(in): 12.00	12.00	Entrance Loss Coef: 0.500
Invert(ft): 10.570	9.000	Exit Loss Coef: 0.000
Manning's N: 0.011000	0.011000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

Added per survey on Bees Ferry Apts (Shadowmoss Pointe). Orifice is actually at elevation 5.3 (underwater). Out
 *** Weir 1 of 2 for Drop Structure L-A083BD1 ***

Count: 1	Bottom Clip(in): 0.000	TABLE
Type: Vertical: Mavis	Top Clip(in): 0.000	
Flow: Both	Weir Disc Coef: 3.200	
Geometry: Circular	Orifice Disc Coef: 0.600	
Span(in): 2.00	Invert(ft): 10.570	
Rise(in): 2.00	Control Elev(ft): 10.570	

*** Weir 2 of 2 for Drop Structure L-A083BD1 ***

Count: 1	Bottom Clip(in): 0.000	TABLE
Type: Horizontal	Top Clip(in): 0.000	
Flow: Both	Weir Disc Coef: 3.200	
Geometry: Rectangular	Orifice Disc Coef: 0.600	
Span(in): 72.00	Invert(ft): 11.920	
Rise(in): 72.00	Control Elev(ft): 11.920	

 Name: L-A102D1 From Node: N-A102 Length(ft): 30.00
 Group: RR To Node: N-A101 Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 12.00	12.00	Flow: Both
Rise(in): 12.00	12.00	Entrance Loss Coef: 0.200
Invert(ft): 7.950	7.800	Exit Loss Coef: 0.000
Manning's N: 0.011000	0.011000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
 Circular Concrete: Groove end projecting

Pond 3 outfall structure. Survey. I set both weirs to elevation 7.95 to remove ICPR warnings. The outfall pip
 *** Weir 1 of 3 for Drop Structure L-A102D1 ***

Count: 1	Bottom Clip(in): 0.000	TABLE
Type: Vertical: Mavis	Top Clip(in): 0.000	
Flow: Both	Weir Disc Coef: 3.200	
Geometry: Circular	Orifice Disc Coef: 0.600	
Span(in): 24.00	Invert(ft): 7.950	
Rise(in): 24.00	Control Elev(ft): 7.950	

*** Weir 2 of 3 for Drop Structure L-A102D1 ***

Count: 1	Bottom Clip(in): 0.000	TABLE
Type: Vertical: Mavis	Top Clip(in): 0.000	
Flow: Both	Weir Disc Coef: 3.200	

Geometry: Circular	Orifice Disc Coef: 0.600
Span(in): 3.00	Invert(ft): 7.950
Rise(in): 3.00	Control Elev(ft): 7.950

*** Weir 3 of 3 for Drop Structure L-A102D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Circular	Orifice Disc Coef: 0.600
Span(in): 72.00	Invert(ft): 10.950
Rise(in): 72.00	Control Elev(ft): 10.950

Name: L-B040D1	From Node: N-B040	Length(ft): 40.00
Group: HH	To Node: N-B030	Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 30.00	30.00	Flow: Both
Rise(in): 30.00	30.00	Entrance Loss Coef: 0.500
Invert(ft): 2.100	2.100	Exit Loss Coef: 0.000
Manning's N: 0.025000	0.025000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
Circular CMP: Headwall

Downstream FHWA Inlet Edge Description:
Circular CMP: Projecting

*** Weir 1 of 1 for Drop Structure L-B040D1 ***

TABLE

Count: 1	Bottom Clip(in): 15.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.300
Geometry: Circular	Orifice Disc Coef: 0.600
Span(in): 30.00	Invert(ft): 8.000
Rise(in): 30.00	Control Elev(ft): 8.000

Name: L-B100D1	From Node: N-B100	Length(ft): 70.00
Group: HH	To Node: N-B090	Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 36.00	36.00	Flow: Both
Rise(in): 36.00	36.00	Entrance Loss Coef: 0.200
Invert(ft): 3.510	2.870	Exit Loss Coef: 1.000
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

*** Weir 1 of 2 for Drop Structure L-B100D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.300
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 48.00	Invert(ft): 6.500

Rise(in): 42.00 Control Elev(ft): 6.500

*** Weir 2 of 2 for Drop Structure L-B100D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.300
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 32.00	Invert(ft): 6.250
Rise(in): 3.00	Control Elev(ft): 6.250

Name: L-B140D1 From Node: N-B140 Length(ft): 65.00
Group: HH To Node: N-B130 Count: 3

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 36.00	36.00	Flow: Both
Rise(in): 36.00	36.00	Entrance Loss Coef: 0.200
Invert(ft): 1.500	2.300	Exit Loss Coef: 1.000
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

*** Weir 1 of 1 for Drop Structure L-B140D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.300
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 178.00	Invert(ft): 4.000
Rise(in): 1000.00	Control Elev(ft): 4.000

Name: L-B230D1 From Node: N-B230 Length(ft): 40.00
Group: HH To Node: N-B220 Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 30.00	30.00	Flow: Both
Rise(in): 30.00	30.00	Entrance Loss Coef: 0.000
Invert(ft): 4.700	4.600	Exit Loss Coef: 0.000
Manning's N: 0.025000	0.025000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
Circular CMP: Headwall

Downstream FHWA Inlet Edge Description:
Circular CMP: Projecting

*** Weir 1 of 1 for Drop Structure L-B230D1 ***

TABLE

Count: 1	Bottom Clip(in): 24.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.300
Geometry: Circular	Orifice Disc Coef: 0.600
Span(in): 48.00	Invert(ft): 9.000
Rise(in): 48.00	Control Elev(ft): 9.000

Name: L-C086BD1 From Node: N-C086B Length(ft): 30.00
 Group: RR To Node: N-C086A Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Circular	Circular	Solution Algorithm: Always Outlet
Span(in): 24.00	24.00	Flow: Both
Rise(in): 24.00	24.00	Entrance Loss Coef: 0.500
Invert(ft): 6.890	7.020	Exit Loss Coef: 0.000
Manning's N: 0.011000	0.011000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
 Circular Concrete: Groove end projecting

Added per McAlisters. 6/25/15 JPI
 *** Weir 1 of 2 for Drop Structure L-C086BD1 ***

TABLE

Count: 3	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 36.00	Invert(ft): 10.640
Rise(in): 6.50	Control Elev(ft): 10.640

*** Weir 2 of 2 for Drop Structure L-C086BD1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 3.00	Invert(ft): 8.180
Rise(in): 36.00	Control Elev(ft): 8.180

Name: L-E040D1 From Node: N-E040 Length(ft): 70.00
 Group: VG To Node: N-E020 Count: 2

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Always Outlet
Span(in): 54.00	54.00	Flow: Both
Rise(in): 54.00	54.00	Entrance Loss Coef: 0.000
Invert(ft): 6.000	5.150	Exit Loss Coef: 0.000
Manning's N: 0.013000	0.013000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

PS R022
 *** Weir 1 of 1 for Drop Structure L-E040D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 96.00	Invert(ft): 9.000
Rise(in): 36.00	Control Elev(ft): 9.000

Name: L-E070D1 From Node: N-E070 Length(ft): 462.00
 Group: VG To Node: N-E040 Count: 2

	UPSTREAM	DOWNSTEAM	Friction Equation: Average Conveyance
Geometry:	Circular	Circular	Solution Algorithm: Always Outlet
Span(in):	48.00	48.00	Flow: Both
Rise(in):	48.00	48.00	Entrance Loss Coef: 0.500
Invert(ft):	8.000	7.000	Exit Loss Coef: 0.200
Manning's N:	0.013000	0.013000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in):	0.000	0.000	

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

PS R019

*** Weir 1 of 1 for Drop Structure L-E070D1 ***

TABLE

Count: 1	Bottom Clip(ft): 0.000
Type: Vertical: Mavis	Top Clip(ft): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Trapezoidal	Orifice Disc Coef: 0.600
Bottom Width(ft): 1.00	Invert(ft): 10.000
Left Sd Slp(h/v): 1.00	Control Elev(ft): 10.000
Right Sd Slp(h/v): 1.00	Struct Opening Dim(ft): 9999.00

Name: L-E220D1
Group: VG

From Node: N-E220
To Node: N-E210

Length(ft): 35.00
Count: 2

	UPSTREAM	DOWNSTEAM	Friction Equation: Average Conveyance
Geometry:	Circular	Circular	Solution Algorithm: Automatic
Span(in):	54.00	54.00	Flow: Both
Rise(in):	54.00	54.00	Entrance Loss Coef: 0.500
Invert(ft):	6.000	4.000	Exit Loss Coef: 0.200
Manning's N:	0.013000	0.013000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in):	0.000	0.000	

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

PS R016

*** Weir 1 of 1 for Drop Structure L-E220D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 96.00	Invert(ft): 10.500
Rise(in): 54.00	Control Elev(ft): 10.500

Name: L-F010D1
Group: MC

From Node: N-F010
To Node: N-B160

Length(ft): 150.00
Count: 2

	UPSTREAM	DOWNSTEAM	Friction Equation: Average Conveyance
Geometry:	Circular	Circular	Solution Algorithm: Automatic
Span(in):	42.00	42.00	Flow: Both
Rise(in):	42.00	42.00	Entrance Loss Coef: 0.500
Invert(ft):	3.500	3.000	Exit Loss Coef: 0.000
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in):	0.000	0.000	

Upstream FHWA Inlet Edge Description:
Circular Concrete: Groove end w/ headwall

6/30/15

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end w/ headwall

PS DS-BB1

*** Weir 1 of 2 for Drop Structure L-F010D1 ***

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 108.00	Invert(ft): 12.500
Rise(in): 48.00	Control Elev(ft): 12.500

TABLE

*** Weir 2 of 2 for Drop Structure L-F010D1 ***

Count: 1	Bottom Clip(ft): 0.000
Type: Vertical: Mavis	Top Clip(ft): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Irregular	Orifice Disc Coef: 0.600
Cross Section: X-F010-1	Control Elev(ft): 7.000
Invert(ft): 7.000	Struct Opening Dim(ft): 5.50

TABLE

Name: L-F100D1
Group: MC

From Node: N-F100
To Node: N-D140

Length(ft): 93.00
Count: 2

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 30.00	30.00	Flow: Both
Rise(in): 30.00	30.00	Entrance Loss Coef: 0.500
Invert(ft): 6.000	4.500	Exit Loss Coef: 0.000
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

*** Weir 1 of 3 for Drop Structure L-F100D1 ***

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 72.00	Invert(ft): 11.400
Rise(in): 48.00	Control Elev(ft): 11.400

TABLE

*** Weir 2 of 3 for Drop Structure L-F100D1 ***

Count: 1	Bottom Clip(ft): 0.000
Type: Vertical: Mavis	Top Clip(ft): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Irregular	Orifice Disc Coef: 0.600
Cross Section: X-F100-1	Control Elev(ft): 9.500
Invert(ft): 9.500	Struct Opening Dim(ft): 9999.00

TABLE

*** Weir 3 of 3 for Drop Structure L-F100D1 ***

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Circular	Orifice Disc Coef: 0.600
Span(in): 8.00	Invert(ft): 5.000
Rise(in): 8.00	Control Elev(ft): 6.000

TABLE

Name: L-G025BD1 From Node: N-G025B Length(ft): 90.00
 Group: BL To Node: N-G025A Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 24.00	24.00	Flow: Both
Rise(in): 24.00	24.00	Entrance Loss Coef: 0.500
Invert(ft): 7.980	7.730	Exit Loss Coef: 0.000
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
 Circular Concrete: Groove end projecting

Added per Verdier Apts. Outfall structure for Pond 1. JPI 6/2/15
 *** Weir 1 of 3 for Drop Structure L-G025BD1 ***

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Circular	Orifice Disc Coef: 0.600
Span(in): 6.00	Invert(ft): 8.870
Rise(in): 6.00	Control Elev(ft): 8.870

TABLE

*** Weir 2 of 3 for Drop Structure L-G025BD1 ***

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 6.50	Invert(ft): 9.200
Rise(in): 12.00	Control Elev(ft): 9.200

TABLE

*** Weir 3 of 3 for Drop Structure L-G025BD1 ***

Count: 3	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 36.00	Invert(ft): 10.650
Rise(in): 12.00	Control Elev(ft): 10.650

TABLE

Name: L-G028BD1 From Node: N-G028B Length(ft): 50.00
 Group: BL To Node: N-G028A Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 24.00	24.00	Flow: Both
Rise(in): 24.00	24.00	Entrance Loss Coef: 0.500
Invert(ft): 7.980	7.780	Exit Loss Coef: 0.000
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

Added per Verdier Apts. Outfall for Pond 3 (asbuilts) JPI 6/2/15
 *** Weir 1 of 2 for Drop Structure L-G028BD1 ***

TABLE

6/30/15

```

Count: 1                      Bottom Clip(in): 0.000
Type: Vertical: Mavis         Top Clip(in): 0.000
Flow: Both                    Weir Disc Coef: 3.200
Geometry: Circular            Orifice Disc Coef: 0.600

Span(in): 8.00                Invert(ft): 7.960
Rise(in): 8.00                Control Elev(ft): 7.960

```

*** Weir 2 of 2 for Drop Structure L-G028BD1 ***

TABLE

```

Count: 3                      Bottom Clip(in): 0.000
Type: Vertical: Mavis         Top Clip(in): 0.000
Flow: Both                    Weir Disc Coef: 3.200
Geometry: Circular            Orifice Disc Coef: 0.600

Span(in): 36.00              Invert(ft): 10.550
Rise(in): 36.00              Control Elev(ft): 10.550

```

```

-----
Name: L-G043AD1              From Node: N-G043A          Length(ft): 69.00
Group: BL                    To Node: N-G043          Count: 1

UPSTREAM                     DOWNSTREAM
Geometry: Circular           Circular
Span(in): 24.00              24.00
Rise(in): 24.00              24.00
Invert(ft): 6.700           6.080
Manning's N: 0.012000        0.012000
Top Clip(in): 0.000          0.000
Bot Clip(in): 0.000          0.000

Friction Equation: Average Conveyance
Solution Algorithm: Automatic
Flow: Both
Entrance Loss Coef: 0.500
Exit Loss Coef: 0.000
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc

```

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Added per Faison Apts. Pond 3 outfall. JPI 6/2/15.

*** Weir 1 of 2 for Drop Structure L-G043AD1 ***

TABLE

```

Count: 1                      Bottom Clip(in): 0.000
Type: Vertical: Mavis         Top Clip(in): 0.000
Flow: Both                    Weir Disc Coef: 3.200
Geometry: Circular            Orifice Disc Coef: 0.600

Span(in): 4.00                Invert(ft): 6.700
Rise(in): 4.00                Control Elev(ft): 6.700

```

*** Weir 2 of 2 for Drop Structure L-G043AD1 ***

TABLE

```

Count: 1                      Bottom Clip(in): 0.000
Type: Horizontal              Top Clip(in): 0.000
Flow: Both                    Weir Disc Coef: 3.200
Geometry: Rectangular         Orifice Disc Coef: 0.600

Span(in): 24.00              Invert(ft): 8.640
Rise(in): 12.00              Control Elev(ft): 8.640

```

```

-----
Name: L-G045BD1              From Node: N-G045B          Length(ft): 172.00
Group: BL                    To Node: N-G045A          Count: 1

UPSTREAM                     DOWNSTREAM
Geometry: Circular           Circular
Span(in): 36.00              36.00
Rise(in): 36.00              36.00
Invert(ft): 6.850           6.650
Manning's N: 0.012000        0.012000
Top Clip(in): 0.000          0.000
Bot Clip(in): 0.000          0.000

Friction Equation: Automatic
Solution Algorithm: Most Restrictive
Flow: Both
Entrance Loss Coef: 0.000
Exit Loss Coef: 1.000
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc

```

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

6/30/15

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Added per Faison Apt. Pond 2 outfall from asbuilts. JPI 6/1/15.

*** Weir 1 of 2 for Drop Structure L-G045BD1 ***

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Circular	Orifice Disc Coef: 0.600
Span(in): 10.50	Invert(ft): 6.780
Rise(in): 10.50	Control Elev(ft): 6.780

TABLE

*** Weir 2 of 2 for Drop Structure L-G045BD1 ***

Count: 3	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 36.00	Invert(ft): 8.660
Rise(in): 14.40	Control Elev(ft): 8.660

TABLE

Name: L-G110D1
Group: BL

From Node: N-G110
To Node: N-G100

Length(ft): 381.00
Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 36.00	36.00	Flow: Both
Rise(in): 36.00	36.00	Entrance Loss Coef: 0.000
Invert(ft): 9.000	8.500	Exit Loss Coef: 0.000
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

PS L-D2

*** Weir 1 of 1 for Drop Structure L-G110D1 ***

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 36.00	Invert(ft): 11.000
Rise(in): 100.00	Control Elev(ft): 11.000

TABLE

Name: L-G400D1
Group: BL

From Node: N-G400
To Node: N-G180

Length(ft): 56.00
Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 24.00	24.00	Flow: Both
Rise(in): 24.00	24.00	Entrance Loss Coef: 0.500
Invert(ft): 7.000	5.750	Exit Loss Coef: 0.000
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

6/30/15

*** Weir 1 of 2 for Drop Structure L-G400D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 18.00	Invert(ft): 7.000
Rise(in): 9999.00	Control Elev(ft): 7.000

*** Weir 2 of 2 for Drop Structure L-G400D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 48.00	Invert(ft): 11.500
Rise(in): 48.00	Control Elev(ft): 11.500

Name: L-G450D1
Group: BL

From Node: N-G450
To Node: N-G440

Length(ft): 1200.00
Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 48.00	48.00	Flow: Both
Rise(in): 48.00	48.00	Entrance Loss Coef: 0.500
Invert(ft): 8.500	5.000	Exit Loss Coef: 0.000
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

*** Weir 1 of 3 for Drop Structure L-G450D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 54.00	Invert(ft): 14.000
Rise(in): 48.00	Control Elev(ft): 14.000

*** Weir 2 of 3 for Drop Structure L-G450D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 12.00	Invert(ft): 10.000
Rise(in): 9999.00	Control Elev(ft): 10.000

*** Weir 3 of 3 for Drop Structure L-G450D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 36.00	Invert(ft): 12.000
Rise(in): 9999.00	Control Elev(ft): 12.000

Name: L-G480D1 From Node: N-G480 Length(ft): 1330.00
 Group: BL To Node: N-G470 Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 24.00	24.00	Flow: Both
Rise(in): 24.00	24.00	Entrance Loss Coef: 0.500
Invert(ft): 9.500	5.500	Exit Loss Coef: 0.000
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

*** Weir 1 of 3 for Drop Structure L-G480D1 ***

Count: 1	Bottom Clip(in): 0.000	TABLE
Type: Horizontal	Top Clip(in): 0.000	
Flow: Both	Weir Disc Coef: 3.200	
Geometry: Rectangular	Orifice Disc Coef: 0.600	
Span(in): 48.00	Invert(ft): 16.000	
Rise(in): 48.00	Control Elev(ft): 16.000	

*** Weir 2 of 3 for Drop Structure L-G480D1 ***

Count: 1	Bottom Clip(in): 0.000	TABLE
Type: Vertical: Mavis	Top Clip(in): 0.000	
Flow: Both	Weir Disc Coef: 3.200	
Geometry: Circular	Orifice Disc Coef: 0.600	
Span(in): 3.00	Invert(ft): 10.000	
Rise(in): 3.00	Control Elev(ft): 10.000	

*** Weir 3 of 3 for Drop Structure L-G480D1 ***

Count: 1	Bottom Clip(in): 0.000	TABLE
Type: Vertical: Mavis	Top Clip(in): 0.000	
Flow: Both	Weir Disc Coef: 3.200	
Geometry: Rectangular	Orifice Disc Coef: 0.600	
Span(in): 24.00	Invert(ft): 12.500	
Rise(in): 99999.00	Control Elev(ft): 12.500	

Name: L-H100D1 From Node: N-H100 Length(ft): 55.00
 Group: WAL To Node: N-A150 Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 48.00	48.00	Flow: Both
Rise(in): 48.00	48.00	Entrance Loss Coef: 0.500
Invert(ft): 5.500	5.230	Exit Loss Coef: 0.889
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

HG&A Revised Design w/Drop Structure
 Inv Out?
 Length?

*** Weir 1 of 3 for Drop Structure L-H100D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Circular	Orifice Disc Coef: 0.600
Span(in): 5.00	Invert(ft): 5.500
Rise(in): 5.00	Control Elev(ft): 5.500

*** Weir 2 of 3 for Drop Structure L-H100D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 72.00	Invert(ft): 9.000
Rise(in): 24.00	Control Elev(ft): 9.000

*** Weir 3 of 3 for Drop Structure L-H100D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 72.00	Invert(ft): 11.000
Rise(in): 72.00	Control Elev(ft): 11.000

Name: L-H110D1
Group: WAL

From Node: N-H110
To Node: N-A160

Length(ft): 70.00
Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 48.00	48.00	Flow: Both
Rise(in): 48.00	48.00	Entrance Loss Coef: 0.500
Invert(ft): 6.000	5.650	Exit Loss Coef: 0.889
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dn
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

*** Weir 1 of 3 for Drop Structure L-H110D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Circular	Orifice Disc Coef: 0.600
Span(in): 5.00	Invert(ft): 6.000
Rise(in): 5.00	Control Elev(ft): 6.000

*** Weir 2 of 3 for Drop Structure L-H110D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 72.00	Invert(ft): 9.000
Rise(in): 24.00	Control Elev(ft): 9.000

*** Weir 3 of 3 for Drop Structure L-H110D1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Horizontal	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600

Span(in): 72.00 Invert(ft): 11.000
 Rise(in): 72.00 Control Elev(ft): 11.000

```

-----
Name: L-I180P1      From Node: N-I180      Length(ft): 258.00
Group: MB           To Node: N-I170        Count: 1

      UPSTREAM      DOWNSTREAM      Friction Equation: Average Conveyance
Geometry: Circular  Circular        Solution Algorithm: Automatic
Span(in): 15.00     15.00          Flow: Both
Rise(in): 15.00     15.00          Entrance Loss Coef: 0.500
Invert(ft): 7.840   6.830          Exit Loss Coef: 0.000
Manning's N: 0.010000 0.010000      Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000  0.000          Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000  0.000

```

Upstream FHWA Inlet Edge Description:
 Circular CMP: Projecting

Downstream FHWA Inlet Edge Description:
 Circular CMP: Projecting

Added per survey 4/9/09. JP

*** Weir 1 of 2 for Drop Structure L-I180P1 ***

```

Count: 1      TABLE
Type: Horizontal
Flow: Both
Geometry: Circular
Span(in): 8.00
Rise(in): 8.00
Bottom Clip(in): 0.000
Top Clip(in): 0.000
Weir Disc Coef: 3.200
Orifice Disc Coef: 0.600
Invert(ft): 7.840
Control Elev(ft): 7.840

```

*** Weir 2 of 2 for Drop Structure L-I180P1 ***

```

Count: 3      TABLE
Type: Horizontal
Flow: Both
Geometry: Rectangular
Span(in): 33.60
Rise(in): 6.00
Bottom Clip(in): 0.000
Top Clip(in): 0.000
Weir Disc Coef: 3.200
Orifice Disc Coef: 0.600
Invert(ft): 10.090
Control Elev(ft): 10.090

```

```

-----
Name: N-C086DD1     From Node: N-C086D     Length(ft): 280.00
Group: RR           To Node: N-C086C     Count: 1

      UPSTREAM      DOWNSTREAM      Friction Equation: Average Conveyance
Geometry: Circular  Circular        Solution Algorithm: Always Inlet
Span(in): 24.00     24.00          Flow: Both
Rise(in): 24.00     24.00          Entrance Loss Coef: 0.200
Invert(ft): 7.620   6.110          Exit Loss Coef: 0.000
Manning's N: 0.011000 0.011000      Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000  0.000          Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000  0.000

```

Upstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
 Circular Concrete: Square edge w/ headwall

Bees Ferry Apt Outfall Structure for Pond 1. Model shows 4" orifice at 6.8'.

*** Weir 1 of 3 for Drop Structure N-C086DD1 ***

```

Count: 1      TABLE
Type: Horizontal
Flow: Both
Geometry: Rectangular
Span(in): 72.00
Rise(in): 72.00
Bottom Clip(in): 0.000
Top Clip(in): 0.000
Weir Disc Coef: 3.200
Orifice Disc Coef: 0.600
Invert(ft): 14.120
Control Elev(ft): 14.120

```

*** Weir 2 of 3 for Drop Structure N-C086DD1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Circular	Orifice Disc Coef: 0.600
Span(in): 4.00	Invert(ft): 6.800
Rise(in): 4.00	Control Elev(ft): 6.800

*** Weir 3 of 3 for Drop Structure N-C086DD1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Circular	Orifice Disc Coef: 0.600
Span(in): 10.00	Invert(ft): 10.020
Rise(in): 10.00	Control Elev(ft): 10.020

Name: N-G044BD1
Group: BL

From Node: N-G044B
To Node: N-G044A

Length(ft): 72.00
Count: 1

UPSTREAM	DOWNSTREAM	Friction Equation: Average Conveyance
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 24.00	24.00	Flow: Both
Rise(in): 24.00	24.00	Entrance Loss Coef: 0.500
Invert(ft): 11.500	11.500	Exit Loss Coef: 0.500
Manning's N: 0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in): 0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in): 0.000	0.000	

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Added per Blue Water Gas Station. Outfall structure for underground storage devices. Outfalls into plunge pool

*** Weir 1 of 2 for Drop Structure N-G044BD1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Circular	Orifice Disc Coef: 0.600
Span(in): 6.00	Invert(ft): 11.500
Rise(in): 6.00	Control Elev(ft): 11.500

*** Weir 2 of 2 for Drop Structure N-G044BD1 ***

TABLE

Count: 1	Bottom Clip(in): 0.000
Type: Vertical: Mavis	Top Clip(in): 0.000
Flow: Both	Weir Disc Coef: 3.200
Geometry: Rectangular	Orifice Disc Coef: 0.600
Span(in): 36.00	Invert(ft): 14.000
Rise(in): 12.00	Control Elev(ft): 14.000