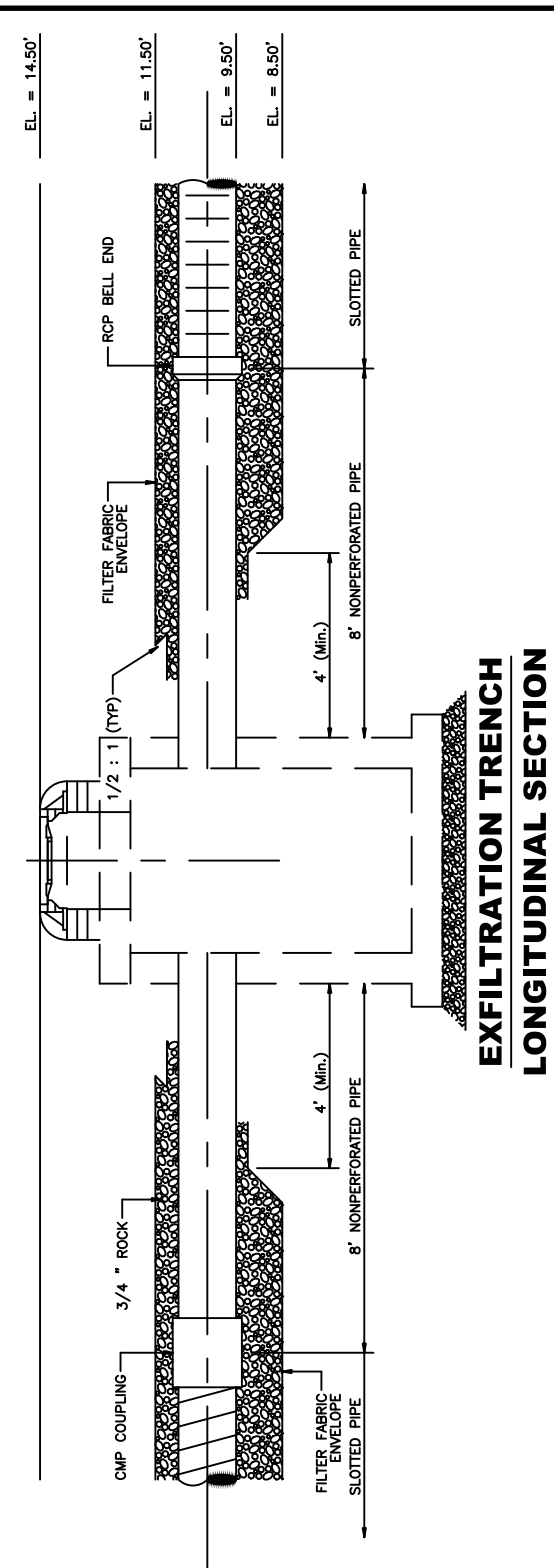


L = LENGTH OF TRENCH REQUIRED (FEET)
 V = VOLUME TREATED (ACRE-INCHES)
 W = TRENCH WIDTH (FEET)
 K = HYDRAULIC CONDUCTIVITY (CFS/FT²-FT. HEAD)
 H₂ = DEPTH TO WATER TABLE (FEET)
 D₂ = NON-SATURATED TRENCH DEPTH (FEET)
 D₁ = SATURATED TRENCH DEPTH (FEET)

TYPICAL EXFILTRATION TRENCH

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
TYPICAL EXFILTRATION TRENCH			
Date	Revisions	Appr. by	Date: April 2006 Scale: N.T.S. Dwg: F370 Fig: 370

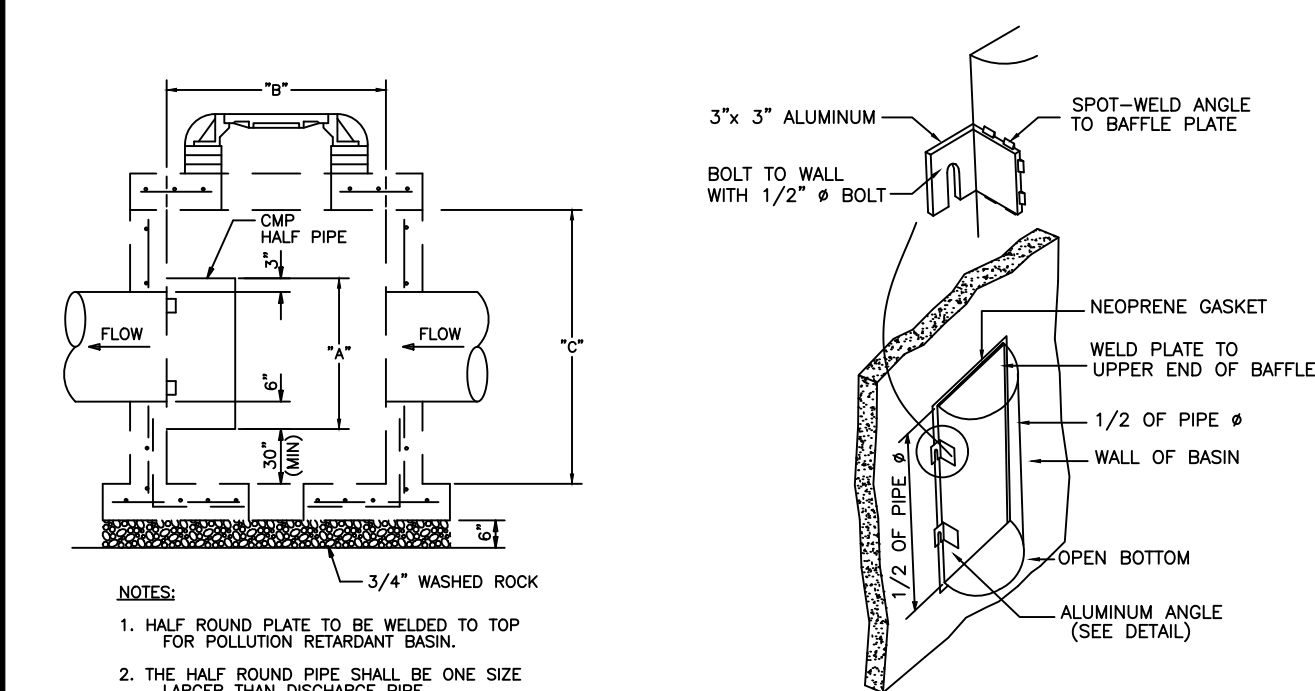


**EXFILTRATION TRENCH
LONGITUDINAL SECTION**

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
EXFILTRATION TRENCH LONGITUDINAL SECTION			
Date	Revisions	Appr. by	Date: April 2006 Scale: N.T.S. Dwg: F371 Fig: 371

NOTES:
 GEOWEB SPECIFICATIONS GW20V - 100 MM (4 IN) DEPTH
 (BY PRESTO PRODUCTS OR EQUAL)
BASE MATERIAL:
 POLYMER - POLYETHYLENE WITH DENSITY OF 0.935-0.965 G/cm³
 COLOR - BLACK
 STABILIZER - CARBON BLACK CONTENT 185-2.0% BY WEIGHT
 MINIMUM ESCR - 3000 HR
STRIP PROPERTIES:
SURFACE TREATMENT
 PERFORMANCE - THE POLYETHYLENE STRIPS SHALL BE TEXTURED AND PERFORATED SUCH THAT THE PEAK FRICTION ANGLE BETWEEN THE SURFACE OF THE TEXTURED/PERFORATED PLASTIC AND A # 40 SILICA SAND AT 100% RELATIVE DENSITY SHALL BE NO LESS THAN 85% OF THE PEAK FRICTION ANGLE OF THE SILICA SAND IN ISOLATION WHEN TESTED BY THE DIRECT SHEAR METHOD PER ASTM D 5331. THE QUANTITY OF PERFORATIONS SHALL REMOVE 13.2% ± 2.1 % OF THE CELL WALL AREA. MATERIAL - THE POLYETHYLENE STRIPS SHALL BE TEXTURED WITH A MULTITUDE OF RHOMBODIAL (DIAMOND SHAPE) INDENTATIONS. THE RHOMBODIAL INDENTATIONS SHALL HAVE A SURFACE DENSITY OF 22-31 FEN SQUARE CENTIMETER (140-200 PER SQUARE INCH). IN ADDITION, THE STRIPS SHALL BE PERFORATED WITH HORIZONTAL ROWS OF 10 MM (0.391 IN.) DIAMETER HOLES. PERFORATIONS WITHIN EACH ROW SHALL BE 19 MM (0.75 IN.) ON-CENTER. HORIZONTAL ROWS SHALL BE STAGGERED AND SEPARATED 12 MM (0.50 IN.) RELATIVE TO THE HOLE CENTERS. OUTER PERFORATION CENTERS SHALL BE 12 MM (0.50 IN.) FROM THE STRIP EDGES AND 25 MM (1.0 IN.) FROM THE CELL WELD POINTS.
CELL AND SEAM PROPERTIES:
CELL DETAILS
 DEPTH - 100 MM (4 IN.)
 LENGTH - 224 MM (8.8 IN.)
 WIDTH - 259 MM (10.2 IN.)
 DENSITY PER SQUARE METER (SQUARE YARD) - 36.4 (28.9)
 NOMINAL AREA ± 1 % - 289 SQUARE CENTIMETER (44.8 SQUARE INCHES)
SHORT-TERM SEAM PEEK STRENGTH
 CELL DEPTH - 75 MM (3 IN.)
 MINIMUM CERTIFIED CELL SEAM STRENGTH - 1420 N (320 LBF)
SEAM HANG STRENGTH TEST
 A 100 MM (4 IN.) WIDE SEAM SHALL SUPPORT A 72.5 KG. (160 LB) LOAD FOR 7 DAYS MINIMUM IN A TEMPERATURE-CONTROLLED ENVIRONMENT UNDERGOING A TEMPERATURE CHANGE ON A 1-HOUR CYCLE FROM AMBIENT ROOM TO 54° C (130° F). AMBIENT ROOM TEMPERATURE PER ASTM E 41.
ALTERNATIVE SEAM HANG STRENGTH TEST
 A 100 MM (4 IN.) WIDE SEAM SHALL SUPPORT A 72.5 KG. (160 LB) LOAD FOR 30 DAYS IN AN AMBIENT ROOM TEMPERATURE ENVIRONMENT. AMBIENT ROOM TEMPERATURE PER ASTM E 41.
SECTION PROPERTIES:
SECTION DIMENSIONS
 SECTION WIDTH (VARIABLE) 2.3 M (7.7 FT.) TO 2.8 M (9.2 FT.)
 SECTION LENGTH RANGE - MINIMUM 3.7 M (12.0 FT.) MAXIMUM 9.8 M (32.2 FT.)

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
GEOWEB - SPECIFICATIONS			
Date	Revisions	Appr. by	Date: April 2006 Scale: N.T.S. Dwg: F372 Fig: 372

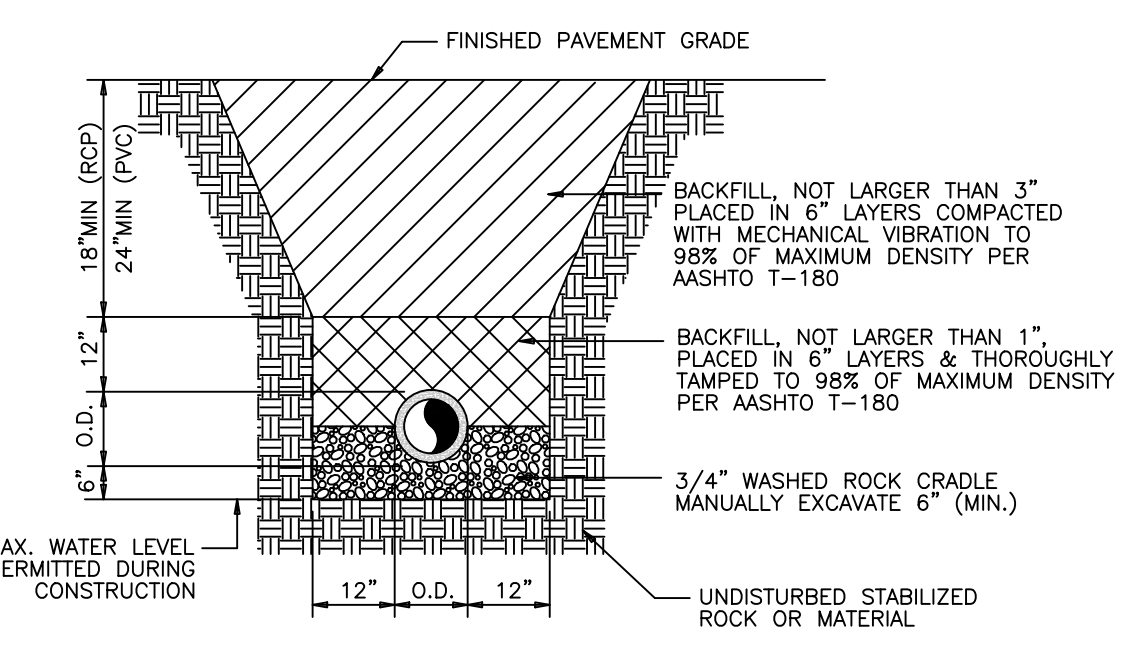


- NOTES:**
- HALF ROUND PLATE TO BE WELDED TO TOP FOR POLLUTION RETARDANT BASIN.
 - THE HALF ROUND PIPE SHALL BE ONE SIZE LARGER THAN DISCHARGE PIPE.
 - FOR STRUCTURE'S CONSTRUCTION DIMENSIONS AND SPEC'S., SEE PRECAST CATCH BASIN DETAIL.
 - WEEP HOLES ARE NOT PERMITTED IN WELDFIELD AREAS.

POLLUTION RETARDANT BAFFLE

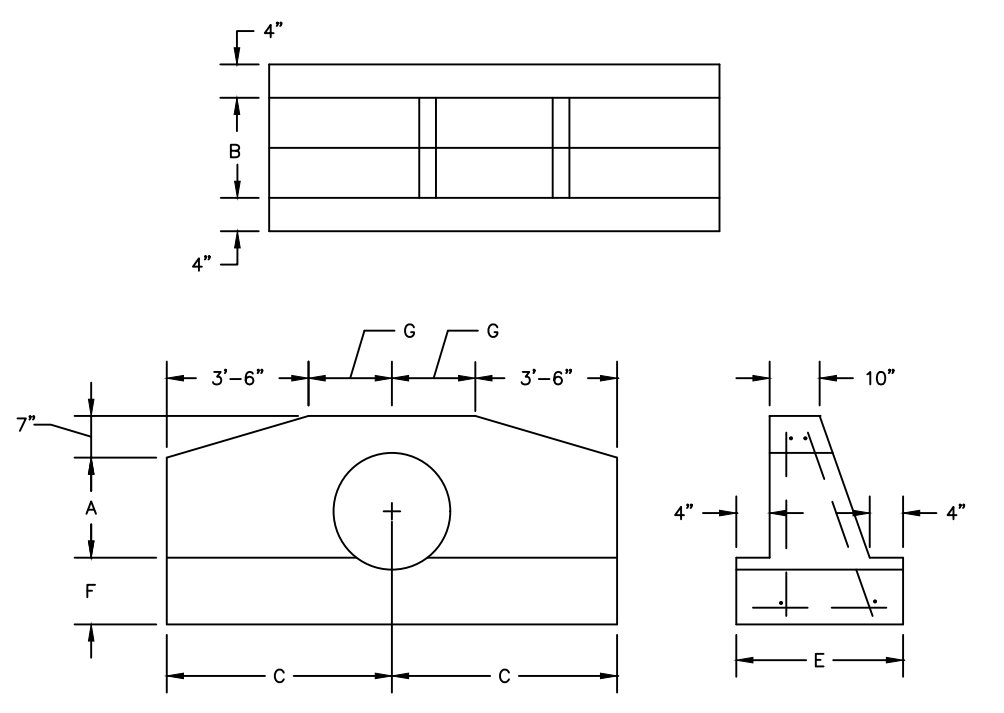
PIPE DIAMETER	BAFFLE SCHEDULE
12"	24"
15"	24"
18"	24"
24"	36"
30"	36"
36"	42"
42"	48"
48"	48"
60"	72"

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
POLLUTION RETARDANT BAFFLE			
Date	Revisions	Appr. by	Date: April 2006 Scale: N.T.S. Dwg: F373 Fig: 373



TYPICAL TRENCH DETAIL

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
PIPE INSTALLATION TRENCH DETAIL (STORM DRAIN)			
Date	Revisions	Appr. by	Date: April 2006 Scale: N.T.S. Dwg: F374 Fig: 374

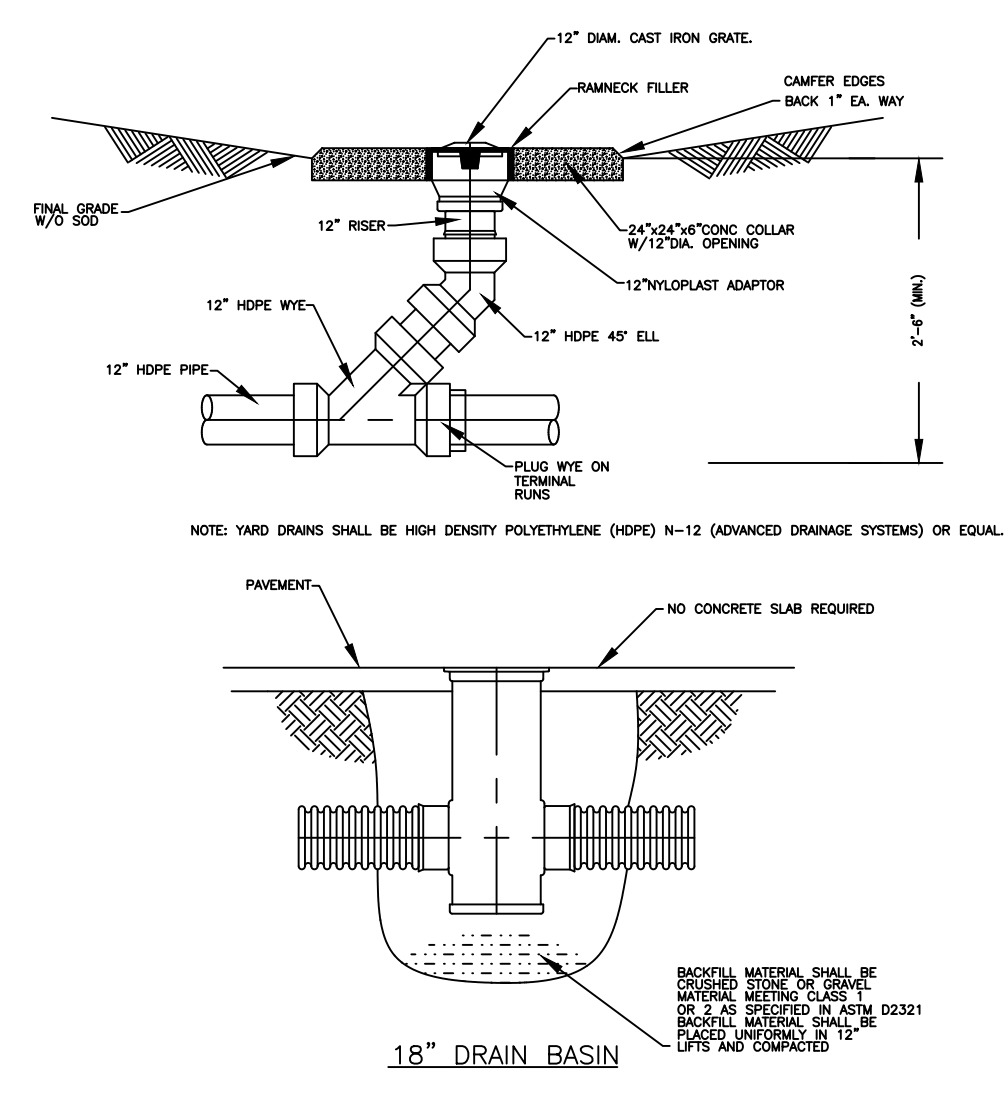


PIPE SIZE	A	B	C	E	F	G
15"	1'-11"	1'-2"	4'-0"	1'-10"	1'-2"	0'-6"
18"	2'-2"	1'-3"	4'-6"	1'-11"	1'-3"	1'-0"
24"	2'-8"	1'-4"	5'-0"	2'-0"	1'-4"	1'-6"

F.D.O.T. STRAIGHT ENDWALL

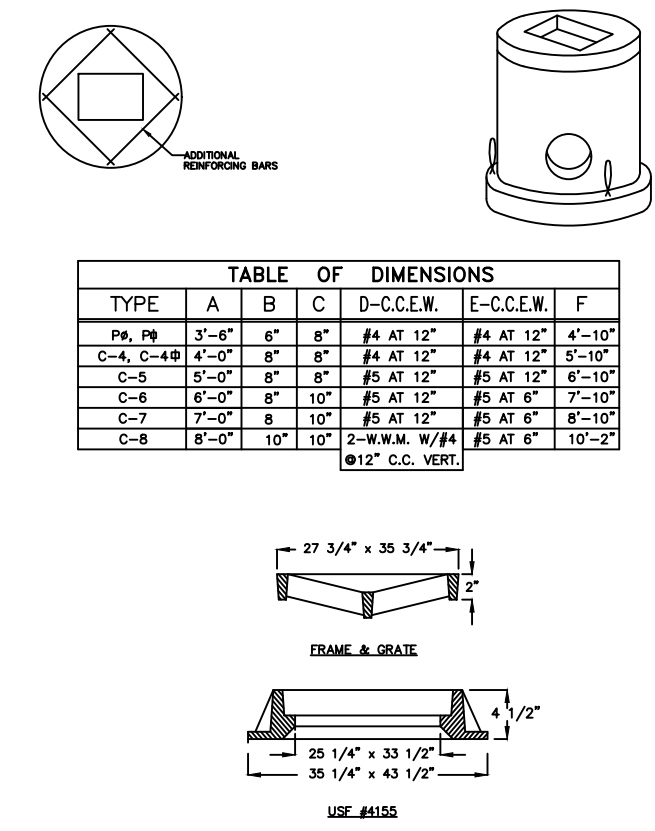
NOTE: REFER TO FOOT INDEX NO. 250 FOR ADDITIONAL DETAILS AND SPECIFICATIONS

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
F.D.O.T. STRAIGHT ENDWALL			
Date	Revisions	Appr. by	Date: April 2006 Scale: N.T.S. Dwg: F375 Fig: 375



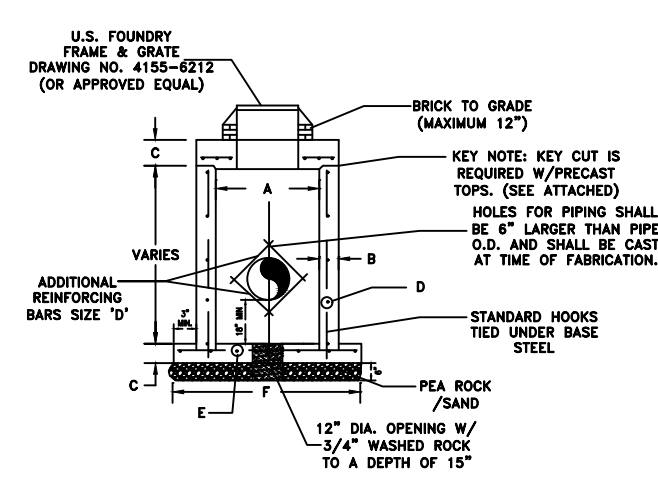
YARD INLET DETAIL (NYLOPLAST OR EQUAL)

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
YARD DRAIN DETAIL			
Date	Revisions	Appr. by	Date: April 2006 Scale: N.T.S. Dwg: F378 Fig: 378



TYPE	A	B	C	D-C.C.W.	E-C.C.W.	F
PH. PM	3'-4"	6"	8"	#4 AT 12"	#4 AT 12"	A'-10"
C-4, C-4B	4'-2"	8"	8"	#4 AT 12"	#4 AT 12"	B'-10"
C-5	5'-2"	8"	8"	#5 AT 12"	#5 AT 12"	C'-10"
C-6	6'-2"	8"	8"	#5 AT 12"	#5 AT 12"	D'-10"
C-7	7'-2"	8"	8"	#5 AT 12"	#5 AT 12"	E'-10"
C-8	8'-2"	10"	10"	#5 W/ 1/2" W/ 1/2" W/ 1/2"	#5 AT 12"	F'-10"

USF #4155 FRAME & GRATE



PRECAST ROUND OR RECTANGULAR CATCH BASIN

CITY OF COCONUT CREEK UTILITIES AND ENGINEERING DEPARTMENT			
PRECAST CATCH BASIN			
Date	Revisions	Appr. by	Date: April 2006 Scale: N.T.S. Dwg: F379 Fig: 379

NOTES:
 1. ALL ELEVATIONS ARE IN N.A.V.D. 88

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 PLOT DATE: 4/11/2016 2:49 PM BY: Miguel A. Sosa
 LAYOUT: [C-1.9]

NO.	DATE	DESCRIPTION

DATE:
Nov. 2014

SCALE:
N.T.S.

DESIGNED BY:
M.G.

DRAWN BY:
M.A.S.

JOB NUMBER
13-3581

SHEET No.
C-1.9

SEAL
Apr 11 2016
CLIFFORD R. LOUTAN, P.E.
FL. REG. NO. 56890