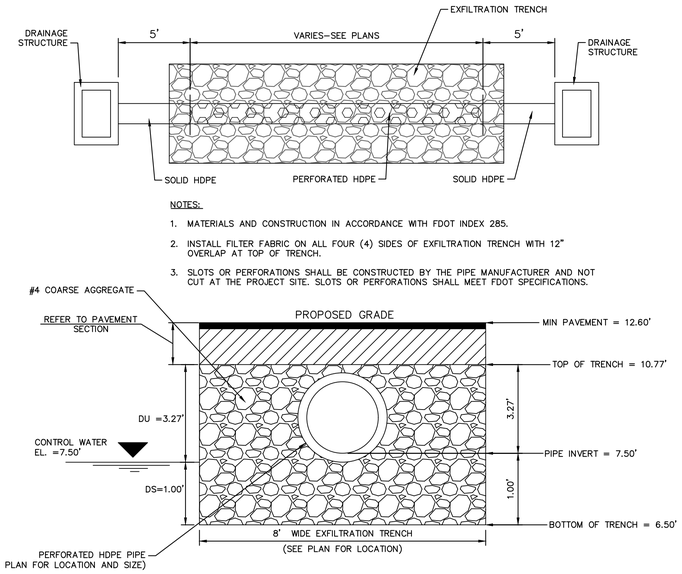
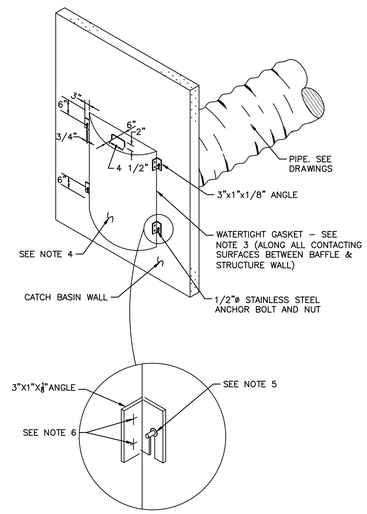


NOTES:

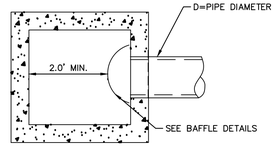
1. MATERIALS AND CONSTRUCTION IN ACCORDANCE WITH FDOT INDEX 285.
2. INSTALL FILTER FABRIC ON ALL FOUR (4) SIDES OF EXFILTRATION TRENCH WITH 12" OVERLAP AT TOP OF TRENCH.
3. SLOTS OR PERFORATIONS SHALL BE CONSTRUCTED BY THE PIPE MANUFACTURER AND NOT CUT AT THE PROJECT SITE. SLOTS OR PERFORATIONS SHALL MEET FDOT SPECIFICATIONS.

1 EXFILTRATION TRENCH DETAIL
N.T.S.



BRACKET DETAIL

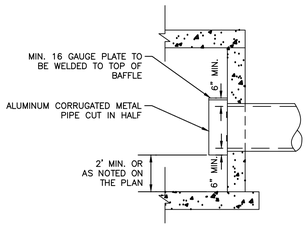
TABLE 1	
DIAMETER (IN)	BAFFLE DIA. (IN)
10	15
15	24
18	30
24	36
30	48
36	54



PLAN

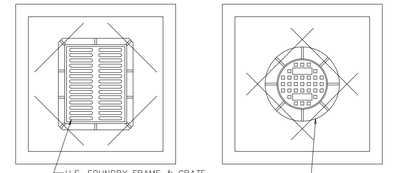
NOTES:

1. CONTRACTOR TO VERIFY THAT BAFFLE WILL FIT STRUCTURE I.D.
2. DEBRIS BAFFLE REQUIRED AT CATCH BASINS CONNECTED DIRECTLY TO PROPOSED DRAIN FIELD.
3. PROVIDE NEOPRENE GASKET TO SIDES AND TOP.
4. POLLUTION RETARDANT BAFFLE (PRB) SHALL BE A MINIMUM OF 2' FROM OPPOSITE WALL OF STRUCTURE, FROM OBSTRUCTION, OR ANOTHER PRB
5. SECTION OF ALUMINUM CORRUGATED METAL PIPE CUT IN HALF. BAFFLE DIAMETER TO BE AS PER TABLE 1.
6. ½" GALVANIZED LAG BOLT IN LEAD SHIELD.
7. WELD OR 2–1/4" THRU BOLTS.

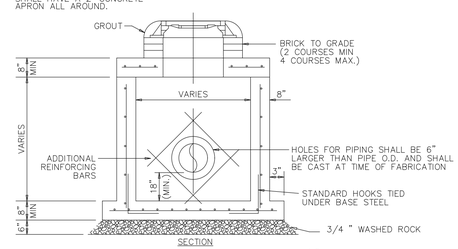


ELEVATION

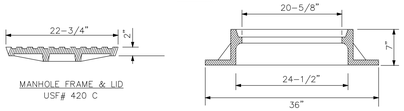
2 BAFFLE DETAIL
N.T.S.



IN GRASS AREAS, ALL GRATES SHALL HAVE A 2' CONCRETE APRON ALL AROUND.



SECTION

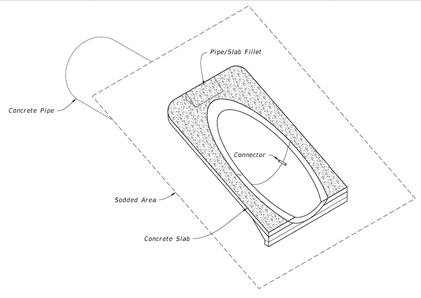


MANHOLE FRAME & LID
USF# 420 C

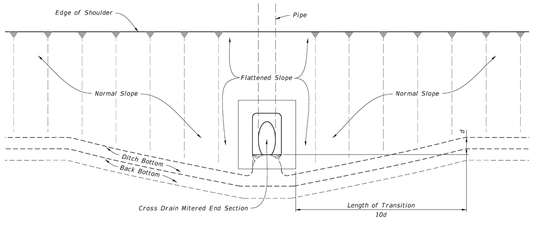
3 PRECAST DRAINAGE STRUCTURE
N.T.S.

GENERAL NOTES:

1. Unless otherwise designated in the plans, concrete pipe mitered end sections may be used with any type of cross drain pipe, corrugated steel pipe mitered end sections may be used with any type of cross drain pipe except aluminum pipe; and, corrugated aluminum mitered end sections may be used with any type of cross drain pipe except steel pipe. When bituminous coated metal pipe is specified for cross drain pipe, construct the mitered end sections with like pipe or concrete pipe. When the mitered end section pipe is dissimilar to the cross drain pipe, construct a concrete jacket in accordance with Index 430-001.
2. Use either corrugated metal or concrete mitered end sections for corrugated polyethylene pipe (HDPE), polyvinyl-chloride pipe (PVC), steel reinforced polyethylene pipe (SRPE), and polypropylene pipe (PP). When used in conjunction with corrugated mitered end sections, make connection using either a formed metal band specifically designated to join HDPE, PVC, SRPE, or PP pipe, with metal pipe. When used in conjunction with a concrete mitered end sections, construct concrete jacket in accordance with Index 430-001.
3. Class NS concrete cast-in-place reinforced slabs are required for all sizes of cross drain pipes. Construct slabs at 5½" thick, unless 3" thickness is called for in the Plans.
4. Select lengths of concrete pipe that avoid excessive connections in the assembly of the mitered end section.
5. Repair corrugated metal pipe galvanizing that is damaged during beveling and perforating.
6. When existing multiple cross drain pipes are spaced other than the dimensions shown in this Index, have nonparallel axes, or non-uniform sections, either construct the mitered end sections separately as single pipe or collectively as multiple pipe end sections as directed by the Engineer.
7. Saddle Slope:
   1:4 Miter – Slope to ℄ of pipe for round pipes less than or equal to 18" diameter and 1:1 for round pipes greater than or equal to 24" diameter.
   Slope to the major axis for elliptical pipes 24"x38" or smaller and 1:2 for pipes 29"x45" or larger.
   Slope to the span line for pipe arch 28"x20" or smaller and 1:2 for pipe arch 35"x24" or larger.
   1:2 Miter – Slope to ℄ of pipe for round pipes less than or equal to 18"diameter and 1:2 for round pipes greater than or equal to 24" diameter.
   Slope to the major axis for elliptical pipes 29"x45" or smaller and 1:1 for pipes 34"x53" or larger.
   Slope 1:1 for all pipe arch sizes.
8. Quantities shown are for estimating purposes only.



CROSS DRAIN MITERED END SECTION
(Concrete Pipe Shown, Corrugated Metal Pipe Similar)

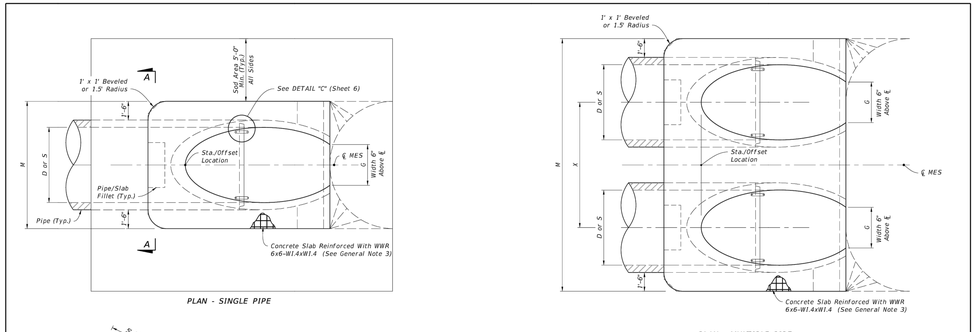


SLOPE AND DITCH TRANSITIONS

TABLE OF CONTENTS:

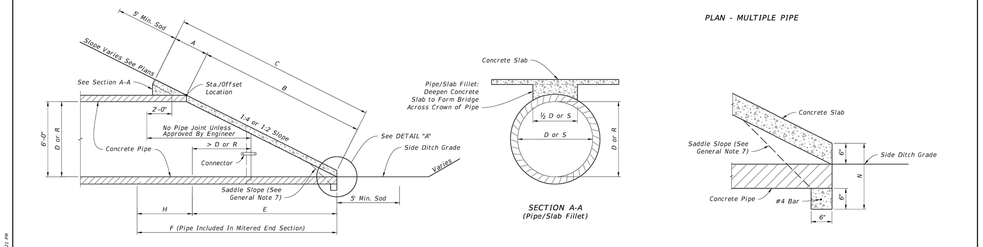
Sheet	Description
1	General Notes and Contents
2	Single and Multiple Concrete Pipe
3	Concrete Pipe Dimensions and Quantities
4	Single and Multiple Corrugated Metal Pipe
5	Corrugated Metal Pipe Dimensions and Quantities
6	Concrete Pipe Connections and Corrugated Metal Pipe (CMP) Anchor Detail

LAST REVISION 11/01/19	DESCRIPTION:	FDOT FY 2025-26 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	INDEX 430-021	SHEET 1 of 6



PLAN - SINGLE PIPE

PLAN - MULTIPLE PIPE



ELEVATION

SECTION A-A
(Pipe/Slab Fillet)

DETAIL "A"

ROUND CONCRETE PIPE
(Elliptical Pipe Similar)

NOTE: See Table 1 on Sheet 3 for Dimensions and Quantities.

SINGLE AND MULTIPLE CONCRETE PIPE

LAST REVISION 11/01/19	DESCRIPTION:	FDOT FY 2025-26 STANDARD PLANS	CROSS DRAIN MITERED END SECTION	INDEX 430-021	SHEET 2 of 6

4 MITERED END SECTION DETAIL
N.T.S.

George Balaban
Digitally signed by George Balaban
Date: 2025.09.16 09:06:01 -04'00'

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY GEORGE BALABAN, P.E. ON THE DATE ADJACENT TO THE SEAL.

SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE AND OBTAINING ALL NECESSARY PERMITS.

ALL ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON THE NAVD 88. TO CONVERT THE ELEVATION HEREON TO NGVD 29 ADD 1.51 FEET.

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WWW.KIMLEY-HORN.COM REGISTRY No. 696

GEORGE BALABAN LICENSE No 74543 STATE OF FLORIDA PROFESSIONAL ENGINEER

KHA PROJECT 143360001		
DATE	MAY 2025	
SCALE	AS SHOWN	
DESIGNED BY	MB	
DRAWN BY	MB	
CHECKED BY	GB	

PAVING, GRADING & DRAINAGE DETAILS

2690 WEST SAMPLE ROAD
PREPARED FOR
NATIONAL EXPRESS WASH LLC
FLORIDA
CITY OF POMPANO BEACH

SHEET NUMBER
C3.30

Plotted By:Benjaminy Alex Sheet Set:2690 WEST SAMPLE ROAD Layout:C3.30 PAVING GRADING & DRAINAGE DETAILS September 15, 2025 05:52:28pm K:\fll_civil\143_jobs\143360001 2690 west sample road civil eng\Design\CADD\plansheets\C3.30 PAVING, GRADING & DRAINAGE DETAILS.dwg
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