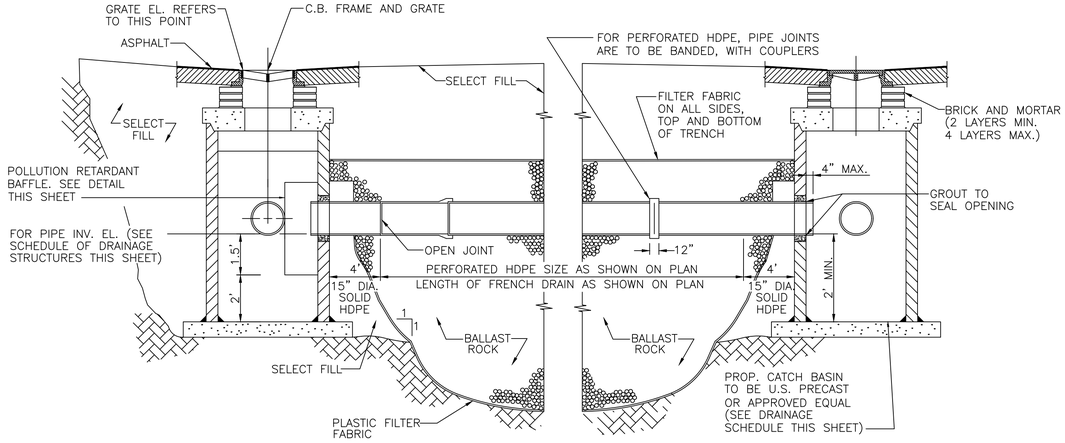
DRC

PZ24-12000024

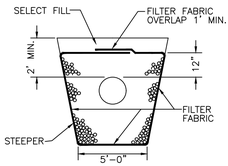
05/07/2025



LONGITUDINAL SECTION

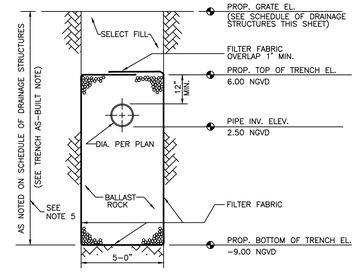
NOTE

AFTER THE BALLAST ROCK HAS BEEN PLACED TO THE PROPER ELEVATION IT SHALL BE CAREFULLY WASHED DOWN WITH CLEAN WATER TO ALLOW FOR INITIAL SETTLEMENT THAT MAY OCCUR. IF SETTLEMENT DOES TAKE PLACE, ADDITIONAL BALLAST ROCK WILL BE ADDED TO RESTORE THE PROPER ELEVATION SO THAT THE EXFILTRATION TRENCH IS COMPLETED IN ACCORDANCE WITH THE DETAILS.

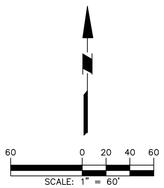


ALT. TRANS. SECTION*

*MAY BE USED IN AREAS WHERE TRENCH WALLS WILL NOT STAND VERTICAL, OR WHERE CAVE-IN BELOW THE WATER TABLE IS LIKELY TO OCCUR. TO BE USED AT THE ENGINEER'S DISCRETION.



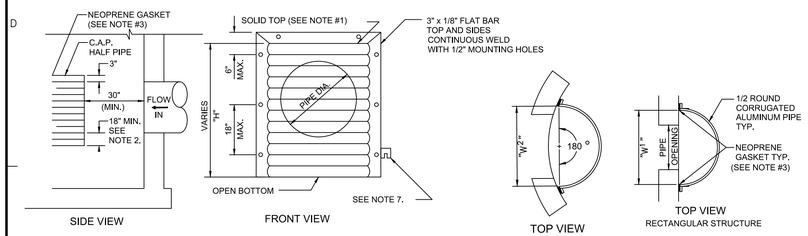
TRANSVERSE SECTION



NOTES:

1. **INSTALL POLLUTION RETARDANT BAFFLE AS PER DETAIL THIS SHEET.**
2. **THE PROPOSED TRENCH SHALL BE EXCAVATED TO THE BOTTOM OF TRENCH ELEVATION INDICATED IN THE DRAINAGE STRUCTURE SCHEDULE, UNLESS APPROVED OTHERWISE BY THE ENGINEER OF RECORD.**
3. **THE CONTRACTOR SHALL PROVIDE AS-BUILT BOTTOM OF TRENCH ELEVATIONS AND LENGTH OF THE EXFILTRATION TRENCHES INSTALLED TO THE ENGINEER OF RECORD. AS-BUILTS SHALL BE CERTIFIED BY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.**
4. **STRUCTURAL DESIGN (WALL AND SLAB THICKNESS AND ALL REINFORCING) NOT REVIEWED. TO BE DESIGNED BY PRECASTER AND SHALL MEET FDOT STANDARDS AND SUPPORT HS-20 LOADING.**
5. **THE BOTTOM OF THE EXFILTRATION TRENCH SHALL BE 15 FEET DEEP OR EXTEND TO A DEPTH WHERE EXISTING CLEAN FILL IS ENCOUNTERED, WHICHEVER IS GREATER.**

EXFILTRATION TRENCH DETAIL



NOTES:

ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP.

THE BOTTOM ELEVATION OF THE POLLUTION RETARDANT BAFFLE MUST BE AT LEAST 18" BELOW CONTROL ELEVATION.

NEOPRENE ADHESIVE BACKED GASKET, OR APPROVED EQUAL (1" x 2") SHALL BE INSTALLED ON THE SIDES AND TOP OF ALL BAFFLES.

POLLUTION RETARDANT BAFFLE TO BE FASTENED IN PLACE WITH 3/8"x4" STAINLESS STEEL "RED HEADS", OR APPROVED EQUAL.

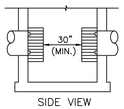
ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A STRUCTURE (SEE EXFILTRATION TRENCH DETAIL).

FIBERGLASS BAFFLES ARE NOT PERMITTED.

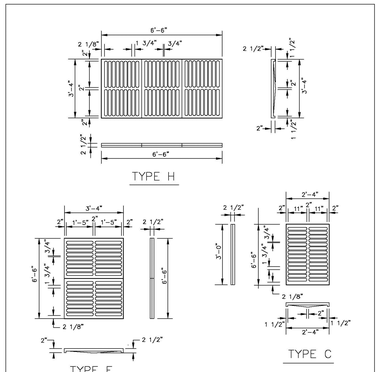
MOUNTING BRACKETS MAY BE ADDED TO FLAT BARS TO EASE INSTALLATION IN ROUND STRUCTURES. SPACING TO MATCH HOLES IN FLAT BARS.

PIPE DIA.	W[1] (IN)	W[2] (IN)	T (GAUGE)	(IN)
15"	21"	21"	16	VARIES
18"	24"	24"	16	VARIES
21"	30"	30"	16	VARIES
24"	30"	36"	16	VARIES
30"	36"	42"	14	VARIES
36"	42"	48"	14	VARIES
42"	48"	54"	14	VARIES
48"	54"	60"	14	VARIES
54"	60"	66"	14	VARIES

1. RECTANGULAR STRUCTURE
2. ROUND STRUCTURE

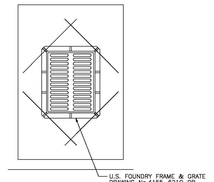


POLLUTANT RETARDANT BAFFLE DETAIL



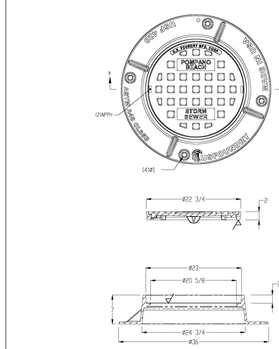
CAST IRON GRATES

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	CAST IRON GRATES	
	SCALE: N.T.S.		DATE: JUNE 2022 DWG. NO. 410-1



NOTES:
1. STEEL PER FDOT INDEX 425-010.
2. MINIMUM 18" SUMP.
3. TYPE II CEMENT, MINIMUM 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: A.S. 04-24	ENGINEERING DIVISION CITY OF POMPANO BEACH	PRECAST DRAINAGE STRUCTURE	
	SCALE: N.T.S.		DATE: APRIL 2024 DWG. NO. 400-1A



ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: A.S. 12/22	ENGINEERING DIVISION CITY OF POMPANO BEACH	COVER FOR MANHOLES AND INLETS	
	SCALE: N.T.S.		DATE: DEC 2022 DWG. NO. 409-1

Date	Description	No.
REVISIONS		

MICHAEL P. CARR — LICENSE No. 72424 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

This item has been digitally signed and sealed by Michael Carr, PE. on the date adjacent to the seal

Printed Copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

SIGNATURE DATE SIGNED

MICHAEL CARR
PROFESSIONAL ENGINEER FL Lic. No. 72424

LANGAN

Langan Engineering and Environmental Services, LLC

110 East Broward Boulvard, Suite 1500
Fort Lauderdale, FL 33301

T: 954.320.2100 F: 954.320.2101 www.langan.com

FBPE Registry No. 00006601/LB8172/LB8198

Project

FESTIVAL INDUSTRIAL

POMPANO BEACH

BROWARD COUNTY FLORIDA

Drawing Title

DRAINAGE DETAILS

Project No.	Drawing No.
330134201	C-7.0
Date: FEBRUARY 2025	
Drawn By: EWM	
Checked By: MPC	

LANGAN

Project No. 330134201

© 2024 Langan