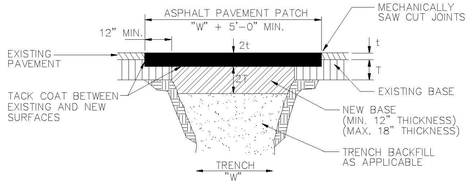
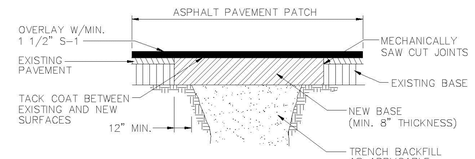


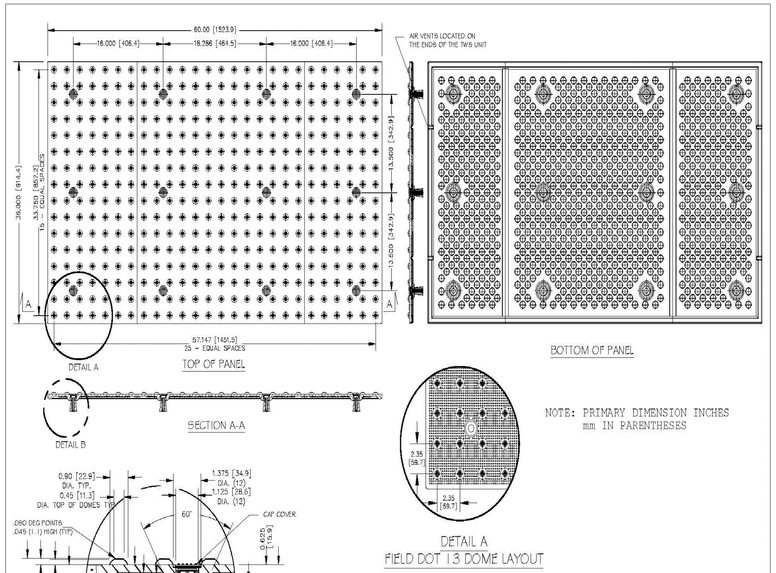
PERPENDICULAR ROAD CROSSINGS (TYPE III)



STANDARD PARALLEL ROAD RESTORATION (TYPE IV)

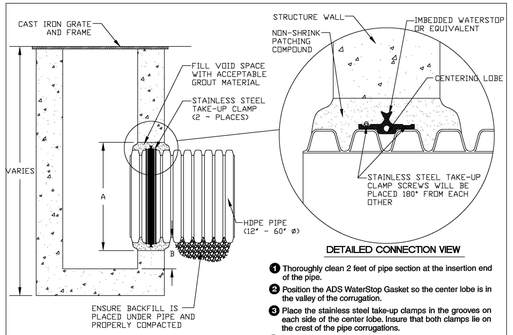
SURFACE RESTORATION

ENGINEERING STANDARDS 2022		
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SURFACE RESTORATION
	SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 306-2



NOTE: PRIMARY DIMENSION INCHES mm IN PARENTHESES

ENGINEERING STANDARDS 2022		
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	ADA Detectable Warning Mats
	SCALE: N.T.S.	APPROVED BY: DATE: MAY 2022 DWG. NO. 318-1



1. Thoroughly clean 2 feet of pipe section at the insertion end of the pipe.
2. Position the ADS WaterStop Gasket so the center lobe is in the valley of the corrugation.
3. Place the stainless steel take-up clamps in the grooves on each side of the center lobe. Insure that both clamps lie on the crest of the pipe corrugations.
4. Position the take-up clamp screws 180° from each other. Using a torque ratchet or torque wrench, gradually tighten both screws of each clamp to 60 lbs./inch torque. Do not overtighten. A screw driver will not tighten clamps adequately.
5. Apply a good quality concrete bonding agent to the structure opening.
6. Insert pipe into the structure opening. Make sure that the ADS WaterStop is fully within the plane of the structure's wall. **If mortaring in place,** apply and compact non-shrink grout around the ADS WaterStop and between the pipe and the opening, taking care to fill the voids. Make sure that the ADS WaterStop Gasket does not contact the bare structure walls. **If pouring in place,** use concrete of sufficient slump to permit complete flow around the pipe and ADS WaterStop. Thoroughly vibrate all around the pipe and ADS WaterStop Gasket to complete compaction and to release any trapped air.

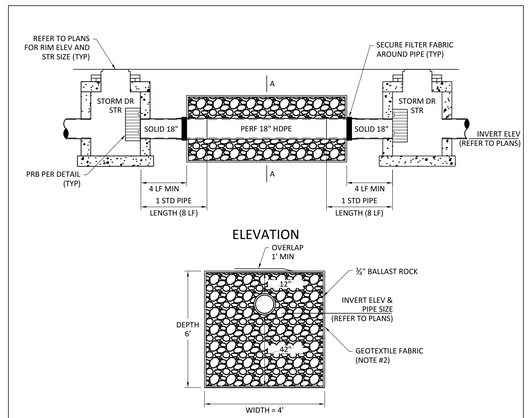
   Allow concrete or mortar to fully cure before testing or backfilling. If the system is to be tested, testing should be completed prior to backfilling around the structure, following all recommendations and requirements of the test system manufacturer. Plug any vent holes in the N-12 pipe prior to testing.
7. Backfill the N-12 pipe following recommendations in ADS Product Note 3.115, *Installing N-12 Storm, Sanitary Sewer and Culvert Pipe.*

INSTALLATION RECOMMENDATIONS

PIPE SIZE (IN)	PIPE OD (IN) A-PROFILE	PIPE OD (IN) H-PROFILE	"A" MIN. "B" HOLE Ø	"B" MIN. DISTANCE PIPE INVERT TO STRUCUTRE INVERT (IN)
12	14.5	14.2	19.50	3.7
15	17.6	17.8	23.00	4.0
18	21.2	21.3	26.50	4.2
24	27.8	28.4	33.25	4.5
30	35.1	35.5	40.50	5.2
36	41.1	41.4	47.00	5.5
42	47.7	48.0	53.00	5.7
48	53.6	54.0	59.00	5.7
60	66.3	67.3	72.00	6.4

WATER STOP SEAL

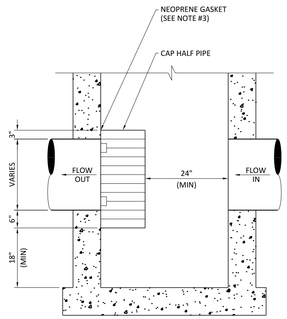
ENGINEERING STANDARDS 2022		
REVISIONS BY / DATE: TCW 04-08	ENGINEERING DIVISION CITY OF POMPANO BEACH	WATER STOP SEAL
	SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 414-1



NOTES:
1. PLACE CONCRETE PIPE WITH THE SLOTS POSITIONED ON SIDES.
2. INSTALL TYPE D-3 FILTER FABRIC IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 985. OVERLAP FILTER FABRIC JOINTS A MINIMUM OF ONE (1) FOOT.
3. CONSTRUCT THE STANDARD EXFILTRATION TRENCH CROSS SECTION PER DETAIL.
4. SEE FDOT STANDARD PLANS INDEX 430-001 FOR SUPPLEMENTAL DETAILS ON UTILITY CROSSING'S THROUGH EXFILTRATION TRENCH.
5. TAKE THE NECESSARY PRECAUTIONS TO PREVENT CONTAMINATION OF THE ¾" BALLAST ROCK WITH SAND, SILT AND OTHER FOREIGN MATERIAL.
6. ALL DRAINAGE STRUCTURES CONNECTED DIRECTLY TO AN EXFILTRATION TRENCH SHALL HAVE WEEP HOLES.
7. REFER TO CITY OF DEERFIELD BEACH DETAILS D-9, D-10, D-11, AND D-12 FOR ADDITIONAL INFORMATION ON STRUCTURE DIMENSIONS, POLLUTION RETARDANT BAFFLES, STRUCTURE BEDDING, BEDDING AND TRENCH DETAILS, RESPECTIVELY.

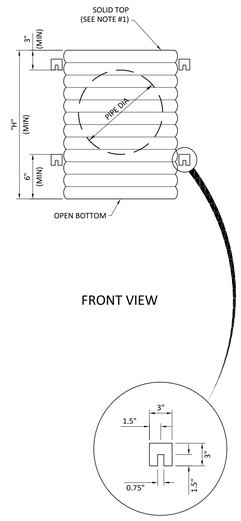
EXFILTRATION TRENCH DETAIL

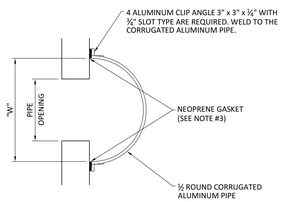
NTS



PIPE DIA	W1 (IN)	W2 (IN)	T (GUAGE)	H (IN)
151	21	24	16	VARIES
8	24	30	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

W1 - RECTANGULAR STRUCTURES
W2 - ROUND STRUCTURES





NOTES:
1. ALUMINUM SHEET OF SAME THICKNESS (GAUGE) AS PIPE SHALL BE WELDED TO CLOSE OPENING AT THE TOP.
2. BAFFLE SHALL BE AS MANUFACTURED BY SOUTHERN CULVERT OR ENGINEER'S APPROVED EQUAL.
3. NEOPRENE GASKET (⅜" x 2") SHALL BE INSTALLED AT ALL BAFFLES ON THE SIDES AND AT THE TOP.
4. POLLUTION RETARDANT BAFFLE TO BE ATTACHED TO STRUCTURE WITH ⅜" x 4" STAINLESS STEEL "RED HEADS".
5. MINIMUM INVERT ELEVATION ON POLLUTION RETARDANT BAFFLE TO BE 2' BELOW CONTROL ELEVATION.
6. ALL EXFILTRATION TRENCHES SHALL HAVE A POLLUTION RETARDANT BAFFLE AT EACH CONNECTION POINT TO A STRUCTURE (SEE EXFILTRATION TRENCH DETAIL).
7. FIBERGLASS BAFFLES ARE NOT PERMITTED.

POLLUTION RETARDANT BAFFLE

AAC
PZ23-12000041
02/06/2024

NOEL RODRIGUEZ, PROFESSIONAL ENGINEER, STATE OF FLORIDA, LICENSE NO. 86390
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY NOEL RODRIGUEZ, PE, ON THE DATE INDICATED HERE.
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.
Digitally signed by Noel Rodriguez
Date: 2023.11.22 13:31:26 -05'00'
DATE: November 22, 2023

WALTERS ZACKRIA ARCHITECTS
5813 N. ANDREWS WAY
FORT LAUDERDALE, FL 33309
PHONE: (954) 522-4123
FAX: (954) 522-4128
www.wza-architects.com
Abbas H. Zackria, FL AR 91520

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CITY OF POMPANO BEACH
CHARLOTTE BURRIE COMM. CENTER
PLAZA AND PASSIVE PARK
2669 N FEDERAL HWY,
POMPANO BEACH, FL 33064

DRAWN BY: LJ
CHECKED BY: GK
DATE: 04-03-2023
REVISIONS:
1 10-23-23 PERMIT CO-ORD
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CIVIL DETAILS