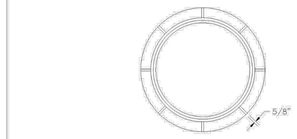
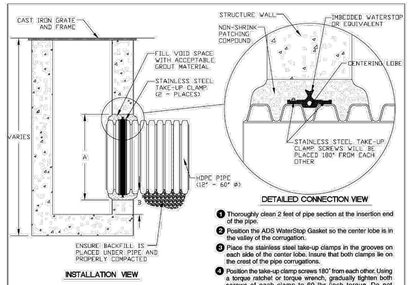
DRC
PZ23-12000018
09/06/2023



CAST IRON FRAME
FOR MANHOLES

ENGINEERING STANDARDS 2022

REVISIONS		ENGINEERING DIVISION	CAST IRON FRAME FOR MANHOLES
BY	DATE	CITY OF POMPANO BEACH	
		SCALE: N.T.S.	DATE: JUNE 2022 DWG. NO. 411-1



INSTALLATION RECOMMENDATIONS

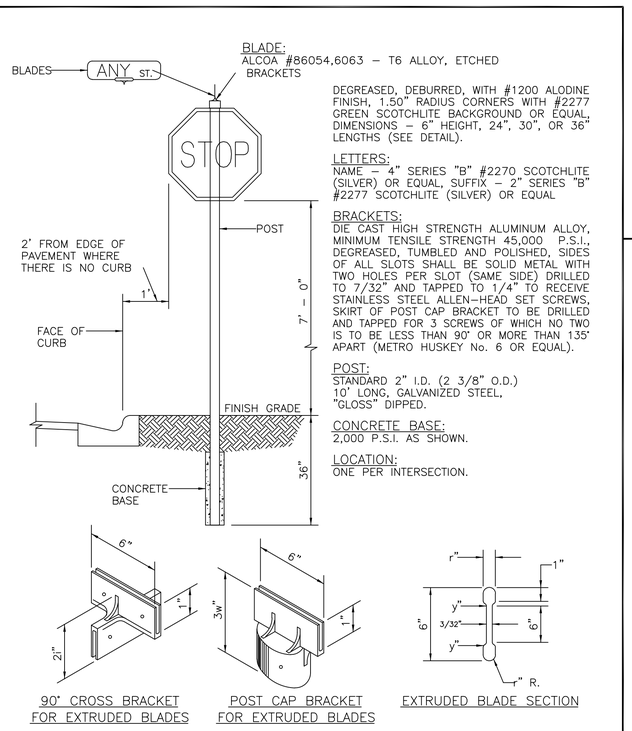
NOM. SIZE I.D. (in)	PIPE I.D. (in) A-PROFILE	PIPE I.D. (in) B-PROFILE	"A" min. "B" max. HOLE, ø	MIN. DISTANCE PIPE INVERT TO STRUCTURE INVERT (in)
12	12.5	12.5	15/16	3.7
15	17.6	17.8	23.35	4.0
18	20.8	23.2	29.50	4.2
24	27.8	28.4	35.70	4.5
30	34.1	34.5	41.90	4.9
36	40.1	40.5	47.95	5.3
42	47.7	48.0	53.95	5.5
48	53.6	54.0	59.95	5.7
60	66.5	67.3	72.00	6.4

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.
7. 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.
8. Backfill the N-12 pipe following recommendations in ADS Product Note 3.115, *Installing N-12 Storm, Sanitary Sewer and Culvert Pipe.*

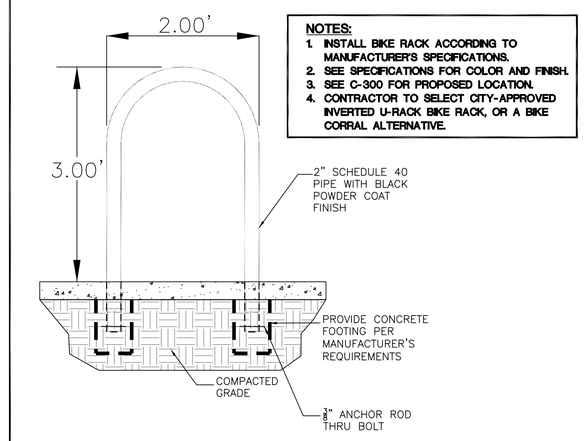
WATER STOP SEAL

ENGINEERING STANDARDS 2022

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



STOP SIGN AND STREET BAR ASSEMBLY



BIKE RACK DETAIL

Revisions		
Date	Description	No.
07/19/23	CITY OF POMPANO BEACH DRC	1

Michael P Carr
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
MICHAEL P. CARR LICENSE No. 72424 STATE OF FLORIDA PROFESSIONAL ENGINEER
Signature Date
MICHAEL CARR
PROFESSIONAL ENGINEER FL Lic. No. 72424

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FL CERTIFICATE OF AUTHORIZATION NO. 00006601/LB8172/LB8198

Project
BLP - POMPANO BEACH
PARCEL ID: 4942-03-00-0036, -0038, -0043
CITY OF POMPANO BEACH
BROWARD COUNTY FLORIDA

Drawing Title
DETAILS

Project No.	Drawing No.
330119501	C-802
Date: AUGUST 2023	
Drawn By: NCM	
Checked By: MPC	

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