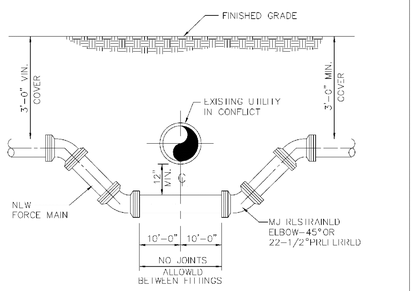
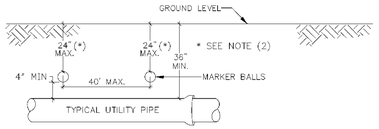


NOTES:
WHERE CONDITIONS PERMIT, PIPE DEFLECTION MAY BE USED INSTEAD OF BENDS TO OBTAIN THE MINIMUM CLEARANCE. FACTORY OFFSETS MAY BE USED.

TYPICAL CONFLICT DETAIL

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	TYPICAL CONFLICT (SEWER)
S.S.	JUNE 2005		
S.S.	02/13/12		
		SCALE: N.T.S.	DATE: JUNE 2022 DWG. NO. 206-1



GENERAL NOTES:

1. ALL UTILITY PIPE SHALL BE INSTALLED WITH 4"ø MARKING BALLS PLACED EVERY 40' AND AT EVERY FITTING, FOR IDENTIFICATION AND WARNING PURPOSES, BURIED ABOVE THE PIPE AT A MAXIMUM DEPTH OF 24 INCHES OR AS APPROVED BY THE OWNER. IT SHALL BE COLOR CODED AND WORDED AS FOLLOWS:

   SEWER SYSTEM
   A. COLOR: GREEN
   B. LETTERING: SANITARY SEWER
   C. FREQUENCY OF MARKER BALLS SHALL BE 121.6 Khz.
   D. THE MARKER BALLS CAN BE BURIED IN ANY ORIENTATION.

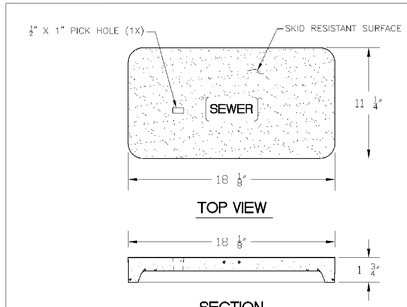
   THE MARKER BALLS SHALL BE DETECTABLE BY STANDARD METAL DETECTION EQUIPMENT AND SHALL BE MANUFACTURED BY TEMPO OR 3M LOCATOR SYSTEM OR EQUIVALENT (FREQUENCY 121.6 Khz)

2. FOR LARGE DIAMETER PIPE INSTALLED AT DEPTHS BELOW 4' 0" MARKER BALLS SHALL BE PLACED AT A MAXIMUM DEPTH OF 4'-0" BELOW GRADE *.

SEWER PIPE IDENTIFICATION

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SEWER PIPE IDENTIFICATION
S.S.	01/30/12		
		SCALE: N.T.S.	DATE: JUNE 2022 DWG. NO. 207-1



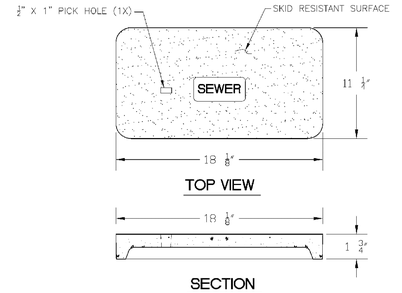
NOTE
1. MATERIAL: FIBERGLASS REINFORCED POLYMER CONCRETE & FIBERGLASS REINFORCED POLYMER
2. COLOR: GREEN
3. LOAD RATING: A8 (ASTM C857)
4. LOGO: SEWER

SEWER BOX AND COVER

PRODUCT RATING - NON TRAFFIC							
LOAD DESIGNATION	DESCRIPTION	DESIGN LOADS			TESTING		
		LIVE LB/WHEEL (2)	LIVE + IMPACT LB/WHEEL	SIDE PSF (3)	LOAD LBS	SAFETY FACTOR
AASHTO H10	LIGHT TRUCK TRAFFIC	8,000	10,400	N/A	22,568 (4)	2.82

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SEWER BOX AND COVER CDR Part No. WB03-1118-12 CDR Part No. WC00-1118-02
		SCALE: N.T.S.	DATE: JUNE 2022 DWG. NO. 210-1



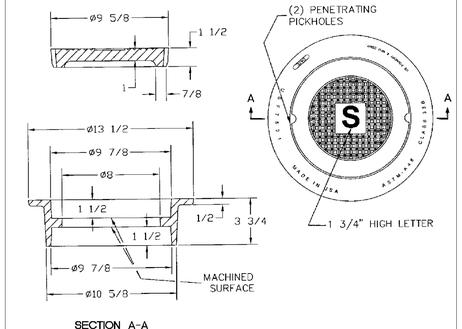
NOTE
1. MATERIAL: FIBERGLASS REINFORCED POLYMER CONCRETE & FIBERGLASS REINFORCED POLYMER
2. COLOR: GREEN
3. LOAD RATING: A8 (ASTM C857)
4. LOGO: SEWER

SEWER BOX AND COVER

PRODUCT RATING - TRAFFIC							
LOAD DESIGNATION	DESCRIPTION	DESIGN LOADS			TESTING		
		LIVE LB/WHEEL (2)	LIVE + IMPACT LB/WHEEL	SIDE PSF (3)	LOAD LBS	SAFETY FACTOR
AASHTO H15	MEDIUM TRUCK TRAFFIC	12,000	15,600	N/A	27,000 (5)	2.25

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SEWER BOX AND COVER CDR Part No. WB04-1118-12 CDR Part No. WC02-1118-02
		SCALE: N.T.S.	DATE: JUNE 2022 DWG. NO. 210-2



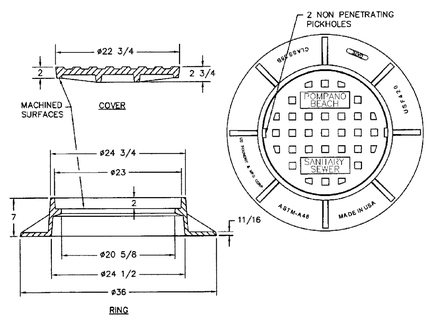
SECTION A-A

NOTE
MATERIAL: Cray Cast Iron ASTM-A48 Class 35B

SEWER BOX AND COVER - HEAVY TRAFFIC

ENGINEERING STANDARDS 2022

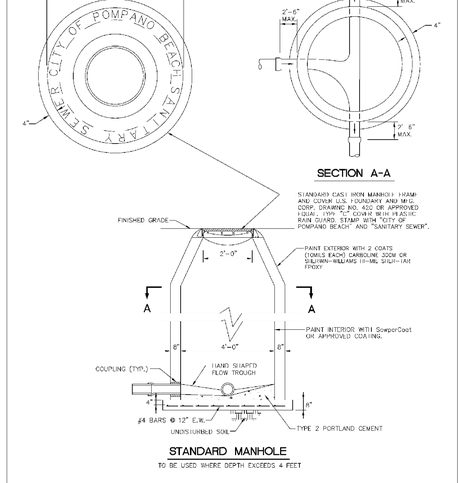
REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SEWER BOX AND COVER HEAVY TRAFFIC
S.S.	12/06/18		
		SCALE: N.T.S.	DATE: JUNE 2022 DWG. NO. 210-3



TRAFFIC RATED FRAME & COVER

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	TRAFFIC RATED SEWER COVER
		SCALE: N.T.S.	DATE: JUNE 2022 DWG. NO. 211-1



STANDARD MANHOLE

TO BE USED WHERE DEPTH EXCEEDS 4 FEET

ENGINEERING STANDARDS 2022

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	STANDARD MANHOLE
S.S.	JUNE 2005		
T.W.	11-2007		
S.S.	12-2013		
A.S.	09-2021	SCALE: N.T.S.	DATE: JUNE 2022 DWG. NO. 215-1

2001 N. ANDREWS AVE

ERIK R. COOPER LICENSE No. 56934 STATE OF FLORIDA PROFESSIONAL ENGINEER

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY ERIK R. COOPER, P.E. ON 2/23/2024.

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REVISIONS

SIMMONS & WHITE
2581 Metrocentre Blvd West, Ste 3 | West Palm Beach, FL 33407
Authorization # 3452 | 561.478.7848

CHENEY BROTHERS POMPANO BEACH
SECTION 27, TOWNSHIP 48S, RANGE 42E.
CITY OF POMPANO BEACH, FLORIDA
CONCEPTUAL WATER AND WASTEWATER DETAILS

DESIGN	DRAWN	CHECKED	APPROVED	DATE
E.C.	B.L.			

JOB NO. 22-187 | DRAWING NO. 22187C11 | SHEET 15 OF 15

DRC
P22-2000051
04/03/2024