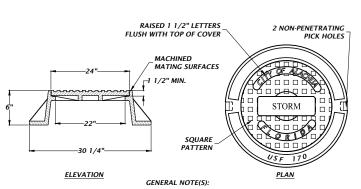


GENERAL NOTE(S):

- 1. UNLESS OTHERWISE NOTED, GROUT INVERTS OF ALL STORMWATER STRUCTURES.
- 2. BASED ON FDOT INDEX 425-001, STANDARD PLANS, SUPPLEMENTARY DETAILS FOR DRAINAGE STRUCTURES



GROUTING INVERTS OF STORMWATER STRUCTURES

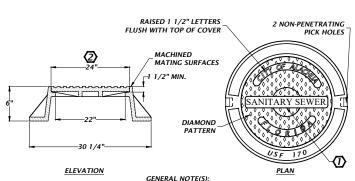


1. USF 170 RING AND CE COVER

2. LOAD CLASSIFICATION: HEAVY DUTY

3. MATERIAL: GRAY CAST IRON, ASTM A48 CLASS 35B

4. PAINT TOP AS PER (307)



GENERAL NOTE(S):

- 1. USF 170 RING AND CE COVER
- 2. LOAD CLASSIFICATION: HEAVY DUTY
- 3. MATERIAL: GRAY CAST IRON, ASTM A48 CLASS 35B
- 4. PAINT TOP AS PER (307)

KEYED NOTE(S):

- INSCRIBING "SANITARY SEWER" ON TWO LINES IS ACCEPTABLE.
- FOR A 72-INCH DIAMETER MANHOLE IN A TYPE 1 APPLICATION, PROVIDE A 30-INCH MANHOLE COVER.



ELEVATION

2. 316 SST HARDWARE.

5. WATER TIGHT

FRAME AND COVER SECTION WITH

COVER SHOWN REMOVED FROM FRAME (ALL DIMENSIONS ARE NOMINAL)

3. PASSES M306 H20/H25 PROOF LOAD.

6. MANUFACTURER AND PRODUCT: COMPOSITE ACCESS PRODUCTS; MODEL: CAP ONE;

PRODUCT CODE: A-1BK24X4-C02DMDSS-H1

4. DETECTABLE BY STANDARD METAL DETECTORS.

COMPOSITE SANITARY SEWER MANHOLE FRAME AND COVER NTS

1. MATERIALS: COMPRESSION MOLDED THERMOSET COMPOSITE - NO METAL REINFORCEMENT.

FOUR 316 SS HEAD FASTENERS

TWO CONCEALED PICK HOLE(S) 316 SS INSERTS INSTALLED

KEYED NOTE(S):

ONE INSTALLED 316 SS LIFTING HOOK

COTT OF ALCOHOL

PATTARY SEME

FOR A 72-INCH DIAMETER MANHOLE IN A TYPE 2 APPLICATION, PROVIDE A 36-INCH MANHOLE

= 24-INCH CLEAR OPENING

= ONE LIFTING HOOK

= 4 BOLTS WITH 5/8" HEX HEAD

A4 = 4 BOLI'S WITH 3/6 HEA HEAD
CO2 = "CITY OF ALACHUA" TOP ARCH
DMD = BLANK DIAMOND TREAD
SS = "SANITARY SEWER" BOTTOM ARCH

ABBREVIATION

FOR

O

WASTEWATER

COVER. ADJUST PRODUCT CODE.

= CAP ONE

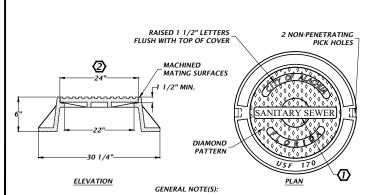
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CAST IRON STORM MANHOLE FRAME AND COVER

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CAST IRON SANITARY SEWER MANHOLE FRAME AND COVER



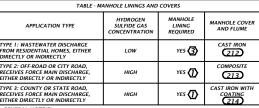
- 1. USF 170 RING AND CE COVER
- 2. LOAD CLASSIFICATION: HEAVY DUTY
- 3. MATERIAL: GRAY CAST IRON, ASTM A48 CLASS 35B
- 4. PAINT TOP AS PER (307)
- 5. FACTORY COAT THE FOLLOWING WITH POR-15 RUST PREVENTIVE/ ANTI-CORROSIVE PAINT, P.O.R.
 - ENTIRE FRAME
- BOTTOM AND SIDES OF COVER

KEYED NOTE(S):

- (INSCRIBING "SANITARY SEWER" ON TWO LINES IS ACCEPTABLE.
- FOR A 72-INCH DIAMETER MANHOLE IN A TYPE 3
 APPLICATION, PROVIDE A 30-INCH MANHOLE

(214)

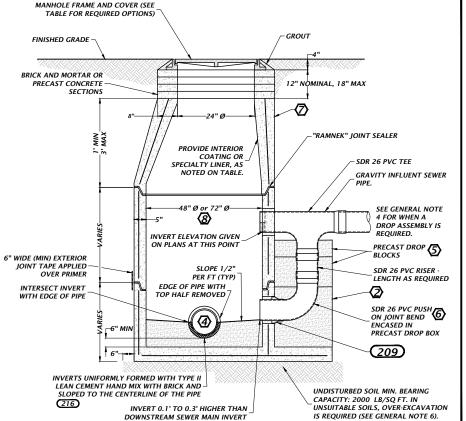
CAST IRON SANITARY SEWER MANHOLE, COATED FRAME AND MANHOLE COVER WITH UNDERCOAT



- PRECAST MANHOLE SECTIONS TO BE MANUFACTURED IN ACCORDANCE WITH THE LATEST EDITIONS OF A.S.T.M. C-478-73 WITH 4000 LB. CONC., TYPE II CEMENT. ALL LIFTING HOLES AND OUTSIGE INSERTS SHALL BE FILLED WITH NON-SHRINK GROUT AND SEALED WITH
- THE INTERIOR AND EXTERIOR OF MANHOLE AND THE INTERIOR OF THE ADJUSTMENT RINGS SHALL BE JOINED AND SEALED WITH "RAMNEK" SEALER.
- . MANHOLE AND DROP ASSEMBLY SHALL BE REQUIRED FOR 4" OR LARGER INFLUENT PIPES WITH 2 FOOT OR GREATER INFLUENT DROP.
- PRECAST BASE SECTIONS WITH A BOTTOM SHALL BE INSTALLED ON UNDISTURBED EARTH.
 BEDDING IS REQUIRED WHEN THE SOIL CONDITIONS ARE WET OR WHEN THE SOIL IS
 UNSUITABLE. FIELD DETERMINE REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH
 SUITABLE FOUNDATION. IF UNDERCUTTING OCCURS, THE BOTTOM OF THE TRENCH SHALL BE
 BROUGHT UP TO THE ORIGINAL GRADE WITH APPROVED MATERIAL AND THOROUGHLY
 COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR.

- UNLESS OTHERWISE NOTED OR SHOWN, FOR NEW MANHOLES, PROVIDE AGRU SURE-GRIP YELLOW 3.0 MM THICK LINER. FOR EACH EXISTING MANHOLE THAT CONNECTS TO NEW FORCE MAIN, PROVIDE RAVEN 405 EPOXY COATING, FURNISH AND INSTALL THESE PRODI
- THIS CONCRETE BOX INCLUDES PIPING INTEGRALLY CAST AT THE FACTORY
- (3) INTERIOR: TWO COATS WATER BASED EPOXY COATING. RED INITIAL COAT FOLLOWED BY GRAY FINAL COAT.
- GRAVITY PIPE WITH TOP HALF REMOVED PASSES THROUGH MANHOLE AS PER 216
- FROM MANHOLE VENDOR. TYPICAL SIZES ARE 2'x2'x2' AND 2'x2'x1'.
- FOR EXISTING MANHOLE, PROVIDE FLOWABLE FILL AROUND JOINT BEND INSTEAD OF PRECAST DROP BOX
- MANHOLE (MH) HEIGHT = RIM ELEVATION MINUS FLOOR ELEVATION. WHEN MANHOLE HEIGHT LESS THAN 20 FEET, PROVIDE 48" DIAMETER. WHEN MANHOLE HEIGHT 20 FEET OR MORE, PROVIDE 72" DIAMETER WITH COVER SIZE AS PER DETAILS 212 213 214





CENTERLINE UNDISTURBED SOIL UNDISTURBED SOIL CONCRETE INVERTS UNIFORMLY FORMED WITH TYPE II LEAN CEMENT - HAND MIX WITH BRICK AND SLOPED TO THE CENTERLINE OF THE PIPE AT 1/2" PER FOOT GRAVITY PIPE PASSES THROUGH MANHOLE. REMOVE ITS TOP HALF

- \bigcirc before cutting pipe, install brick/mortar mixture from manhole bottom to pipe centerline. Slope to pipe centerline.
- **TYPES 2 OR 3 APPLICATION ONLY: BEFORE CUTTING PIPE, COAT BRICK/MORTAR MIXTURE WITH RAVEN 405 EPOXY COATING. ALSO COAT MANHOLE BOTTOM AND PIPE PENETRATIONS.**
- ② CUT AND REMOVE TOP HALF (CENTERLINE) OF (PVC) PIPE. START CUT 3-INCHES FROM MANHOLE WALL.

GRAVITY PIPE THROUGH STANDARD MANHOLE, LONGITUDINAL VIEW

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NTS

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