STANDARD (48") MANHOLE DETAIL

Scale: 1/2"=1'-0"

MANHOLE DROP WHERE REQUIRED
(SEE DETAIL THIS SHEET)

8" STRAIGHT BENCH LINES (Typ)

BENCH LINES FOR SEWER JUNCTION
(Typ)

FROM INVERT CHANNEL FROM SEWER BRICK, 1" SLOPE

PRECAST MANHOLE BASE

FLEXIBLE WATERTIGHT MANHOLE CONNECTION (Typ for Sanitary Manholes)
Municipality Name, Label Storm or Sanitary

Match Pavement Grade and Slope as Directed

Cover to be Self Sealing w/Rubber Gasket installed in Grove of Cast Iron Cover. Sanitary Manholes Only.

Mortar Cap

Adjust to Grade with Maximum 12" Brick or Block Stretcher Course Parged with 3/4" Cement Mortar Min. 2" Brick or Reinforced Conc. Ring

Standard Manhole Steps at 12" O.C.

Paint with Bitumastic outside

Standard Manhole Riser Lengths as Required. Reinforcing Steel as Required by ASTM C-478 (Typ for Precast Manhole Wells)

Approved Flexible Watertight Manhole Connection Secured to or Cast in Manhole Base (Lock Joint or Equal Sanitary Manholes Only. Use Mortar Joint for Storm Manholes)

Pipe Entering and Leaving Manhole 4" Long Maximum

Crushed Stone Base 6" Depth Min. (Typ)

As-Required Base Reinforcing Steel, Both Ways. See Table 1 This Sheet

STANDARD MANHOLE
SECTION A-A
INVERT ELEVATION OF DROP TO BE MIN. 1" ABOVE EFFLUENT ELEV. WHEN PIPE OF SAME SIZE, WHEN DROP OF DIFFERENT SIZE INVERT OF DROP TO BE 0.8 X DIFFERENCE IN PIPE SIZE ABOVE EFFLUENT ELEV.

NOTE:
ALL SANITARY SEWER PIPE AND FITTINGS SHALL BE DUCTILE IRON.

PVC INSIDE DROP IS PERMITTED IN 5'-0" INSIDE DIAMETER MANHOLES ONLY.

STANDARD MANHOLE
SECTION B-B
Manholes located outside the travelway shall have locking covers.

Cover to be self-sealing w/rubber gasket installed in groove of cast iron cover.

STANDARD MANHOLE FRAME & COVER

Scale: 1" = 1'-0"

Note: Campbell Foundry Inc.
Pattern No. 1121 or Equal
**Standard Manhole Frame & Cover**

**Match Pavement Grade & Slope as Directed**

**Mortor Cap**
Adjust to Grade with Max. 12" Brick or Block Parged with 3/4" Cement Mortor.

**10" Precast Manhole Entrance Slab**
(Eccentric Type)

**O Ring Joint (Typ.)**

**48"(60") dia. as req'd**

**2'-0"**

**Standard Precast Manhole Base Unit. Base Reinf. Steel Both Ways**
See Table 1 This Sheet.

**Standard Manhole Riser Lengths as Required. Reinforcing Steel as Required by ASTM C-478 (Typ for Precast Manhole Walls)**

**Crushed Stone Base**
6" Depth Min. (Typ)

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**SECTION**

**SHALLOW MANHOLE DETAILS**

Scale: 1/2"=1'-0"

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BEACON FALLS WPCA
STANDARD DETAILS
SANITARY SEWER BEDDING DETAIL

Scale: 3/4"=1'-0"
CONCRETE THRUST BLOCKS

Scale: 1/2"=1'-0"

NOTES:
1) Anchors Based On Maximum Allowable Water Pressure of 125 PSI
2) Trench Shall Be Excavated to Firm Material Immediately Prior to Placing Concrete.

BEACON FALLS WPCA
STANDARD DETAILS

NYE
Sheeting Across Full Width of Trench to Retain Washed Gravel, and Left in Place (Typ.)

Conc. Form Ties to Hold Sheetin in Place (Typ.)

Sewer pipe

Class 'B' Concrete Encasement

Washed Gravel or Crushed Stone

PLAN

SECTION A-A

TYPICAL CHIMNEY DETAIL

Scale: 3/8"=1'-0"

Note: Precast Chimney Can be Substituted.
1. Lateral limits of concrete placement shall be to suitable undisturbed soil with a minimum interrupter thickness of 1 foot. The upper limit of concrete placement shall be 2 feet above the outside of the sewer main or 4 feet above the existing water table, whichever is greater, but not to exceed the finished backfill grade or bottom of roadway section.

2. Payment for all work in connection with trench drain interrupter construction shall be made at the unit price bid per cubic yard for Class "B" concrete.

3. Trench drainage interrupter shall be installed in locations shown on the drawings or as directed by the engineer.

4. Ripley's Dan or approved equal can be substituted.
Trench Backfill
Compacted As Req'd.
By Specifications

Well Compacted Sand Or
Fine Gravel Containing
No Stones Larger Than
1" Dia.

E Pipe

Class 'B' Conc.

For Reinforced Cradle:
#5@12" Max. Spacing Lap
Bars 18" At Splice.(Typ.)

6" Min.

3" Min. Cover (Typ.)

NOTE: Cradle Shall Be Reinforced Or Non-Reinf. Conc.
As Shown On The Drawings Or As Directed By The Engineer.

CONCRETE CRADLE DETAIL

Scale: 3/4"=1'-0"
NOTE: Brace Pipe Adequately To Prevent Flotation During Concrete Placement.

CONCRETE ENCASEMENT

DETAIL

Scale: $\frac{3}{4}''=1'-0''$
"Y" Connection
New Sanitary Sewer
45° Bend
1.00% Min.
New 6" P.V.C.
Compacted 3/4" Stone or Smaller Bedding, 6" Deep (Typ.)

SERVICE LATERAL CONNECTION

NTS
Max. 2'-6" Width at 1'-0" Over Pipe

Trench Backfill Compacted as Req'd. by Specifications

Filter Fabric

6" PVC Service Lateral

Compacted 3/4" or Smaller Crushed Stone Backfill and Bedding

Preshape Bedding to Fit Pipe Contour

SERVICE LATERAL BEDDING DETAIL

NTS
MANHOLE STEP DETAIL

N.T.S.

NOTE:
1/2" GRADE 60 STEEL REINFORCEMENT
TYPICAL TEMPORARY PAVEMENT

Scale: 1/4" = 1'-0"
FLEXIBLE PIPE TO MANHOLE CONNECTION

INTERNAL EXPANDING BAND

3/8" MIN.

FLEXIBLE NEOPRENE BOOT

EXTERNAL CONTRACTING CLAMP

VARIES

VARIES

BEACON FALLS WPCA
STANDARD DETAILS

NYE
MINIMUM WIDTH
3'-0" FOR LOW PRESSURE FM
6'-0" FOR GRAVITY SEWER
AND MANHOLES

SAWCUT PAVEMENT (TYP.)
BITUMINOUS CONCRETE CLASS I
PROCESSED AGGREGATE
SUBBASE
SUITABLE BACKFILL

TEMPORARY PAVEMENT REPAIR
N.T.S.
TEMPORARY PAVEMENT REPAIR

N.T.S.
TYPICAL TRENCH SECTION FOR FORCE MAIN WITH SEWER MAIN

SCALE: 1/2" = 1'-0"

BEACON FALLS WPCA
STANDARD DETAILS
LOW PRESSURE FORCE MAIN

LATERAL DETAIL

N.T.S.