228th STREET S.W.

CLEANOUT DETAIL
NO SCALE

SEWER RISER BOX, FOG-TITE METER SEAL CO. NO. GP-1 WITH STEEL TRAFFIC LID. (CAST IRON RING & COVER PER APWA STD PLAN NO 45)

PLUG WITH "O" RING SEAL (TO BE SECURED WITH WIRE AFTER FINAL INSPECTION)

FINISHED STREET GRADE

30" X 30" X 15" CONCRETE PAD

8" WYE

ENCASE WYE IN HANDPACKED CONCRETE FOR SUPPORT

8" RISER BACKFILL AROUND RISER TO BE HAND TAMPED

8" X 1/8 (45°) BEND

PLUG (UNLESS OTHERWISE NOTED)

NORMAL BEDDING GRAVEL

NOTE: The contractor shall adjust all frames, grates and lids to finish grade.

44th AVENUE W

Const. C.O. Top 407.9△ Inv. 402.07

6" S.S.

Const. 160 L.F. 8" San. Sewer at 2.56 %

4" S.S. Sta. 0+50

Const. MH No. 2-185 Top 404.10△ Inv. 397.97

6" S.S. Sta. 2+53

NOTE SEWER EXTERIOR TO BUILDING LINE

0 2-180

2-10 G-2

Exist. MH Top 395.07 Inv. 390.44 2-181

Const. 6 L.F. 8" D1. San. Sewer at 0.50%

Const. Cem. Conc. Collar around San Sewer where 2.0' min. cover is Maintained (See Detail)

Const. MH No. 2-183 Top 395.50△ Inv. 391.26

Const. 340 L.F. 8" San. Sewer at 1.00%

6" S.S.

6" S.S.

Const. 335 L.F. 8" San. Sewer at 0.99%

6" S.S.

Const. MH No. 2-184 Top 401.30△ Inv. 394.66

Sta. 0+53

6" S.S.

MANHOLE DETAIL
NO SCALE

24" CLEAR OPENING

OLYMPIC FOUNDRY NO. 5943 MANHOLE RING AND COVER, OR EQUAL, WITH "SEWER" CAST ON LID.

FIRST STEP 14" MIN. 18" MAX.

PLASTER INSIDE FACING WITH 3/4" THICK GROUT

MANHOLE STEPS

PRECAST CONC. MANHOLE BLOCK MINIMUM 3 COURSES REQUIRED

48" X 24" OFFSET CONE

TYPE I-48 MANHOLE (APWA STD PLAN 34)

4'-0" INSIDE DIA.

GROUT ALL JOINTS CONTINUOUS

LADDER (APWA STD PLAN 41)

SLOPE SHOULDER 3/4" PER FOOT

GROUT PIPE IN PLACE OUTSIDE MANHOLE BEFORE BACKFILLING.

SHORT PIPE SECTION AT MANHOLE (TYP.)

FLOW   FLOW

3/4" PIPE DIA.

GROUT FILL

UNDISTURBED EARTH

BEDDING GRAVEL AS DIRECTED BY THE ENGINEER.

SANITARY SEWER COLLAR DETAIL
NO SCALE

VARIABLE

2" COMPT. A.C.

8" D.I. SEW LINE

3'-0"

CEMENT CONCRETE COLLAR
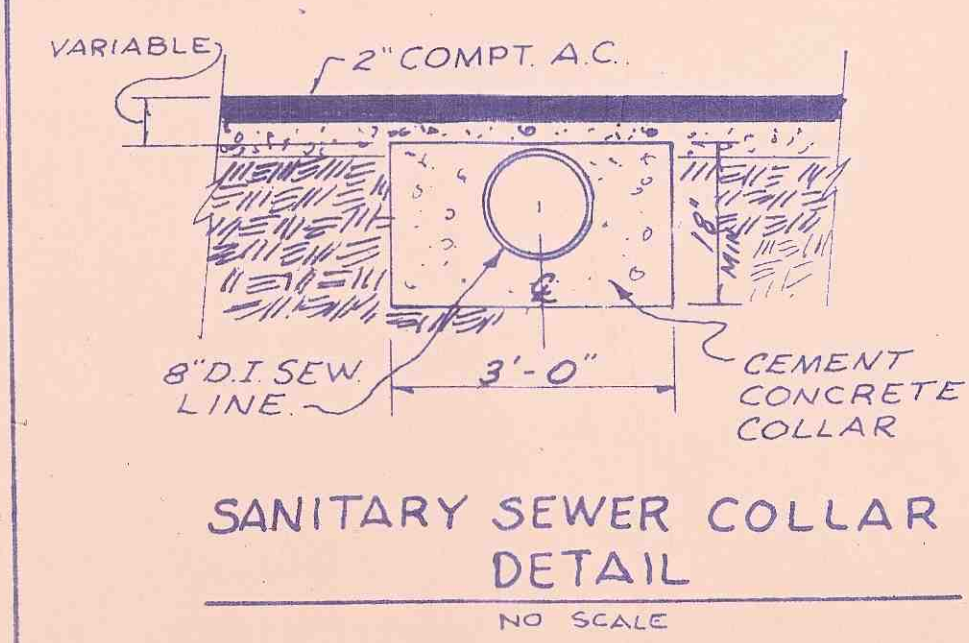
SANITARY SEWER CONSTRUCTION

1. **SANITARY SEWER PIPE:**
Shall be ASTM C-14 (Extra Strength), rubber-gasketed concrete pipe or asbestos cement Cl. 2400 pipe, or PVC ASTM D 3034, SDR 35 per standard specifications. Tees shall be installed in the main where required for side and/or lateral sewers.
Any exceptions shall be noted on the plans.

2. **SIDE SEWER PIPE:**
Shall be ASTM C-14 (Extra Strength), rubber-gasketed concrete pipe or asbestos cement Class 2400 pipe, or PVC ASTM D 3034, SDR 35

3. **EXCAVATION AND BACKFILL:**
To be Class "A" unless otherwise noted on the plans. Select trench backfill, if required, shall be Class "B", per APWA Section 61. Trench backfill compacted to 95% of maximum density, per APWA Section 13-3.10E5, shall be required where ever trench excavation is made in a paved roadway, sidewalk or any other area where minor settlement would be detrimental. See "TRENCH DETAIL", Sheet 5 of 7.

4. **SIDE AND/OR LATERAL SEWERS:**
Shall be constructed not less than two (2) pipe lengths from the building line. The minimum depth at building line is 2%. Each service requires a tee for testing. The ends shall be marked with not less than a No. 9 wire and secured to a 2" X 4" stake painted yellow. The depth of the side and/or lateral sewer below ground is to be marked on the stake.

5. **MANHOLES:**
Shall be 48" I.D., Type [A] APWA Plan No. 34, except that the cones shall be eccentric pattern (48" X 24" X 19"). The manhole rings shall be Olympic No. 5943 or equal having one (1) hole in the lid. The word "SEWER" shall be cast in the cover. All connections to manholes and manhole sections shall be grouted w/non-shrink mortar, Master Builders "EMBECO" or equal.

6. **BEDDING:**
Shall be Class "C" bedding unless specified otherwise on the plans. Class "D" bedding will not be permitted. If solid rock is encountered, reference is to be made to Section 61-3.03C. of the standard specifications. Bedding for PVC pipe shall be sand and gravel 100% passing 1/2" sieve, maximum of 2% passing No. 200 sieve, 4" below and 6" above pipe compacted to 95%.

Approved with revisions to date
Joel E. Birchman 1/22/80

SANITARY SEWER PLAN, APPROVED THIS 29th DAY OF JUNE, 1979, BY CITY OF MOUNTLAKE TERRACE

Sewerage Unit 2-10-G-3

64-80-4