

UNIFIED SCHOOL DISTRICT NO. 261
SANITARY SEWER SERVICE
JUNE, 1972
PLANS AND SPECIFICATIONS

Sup. Resident W. H. Phillips

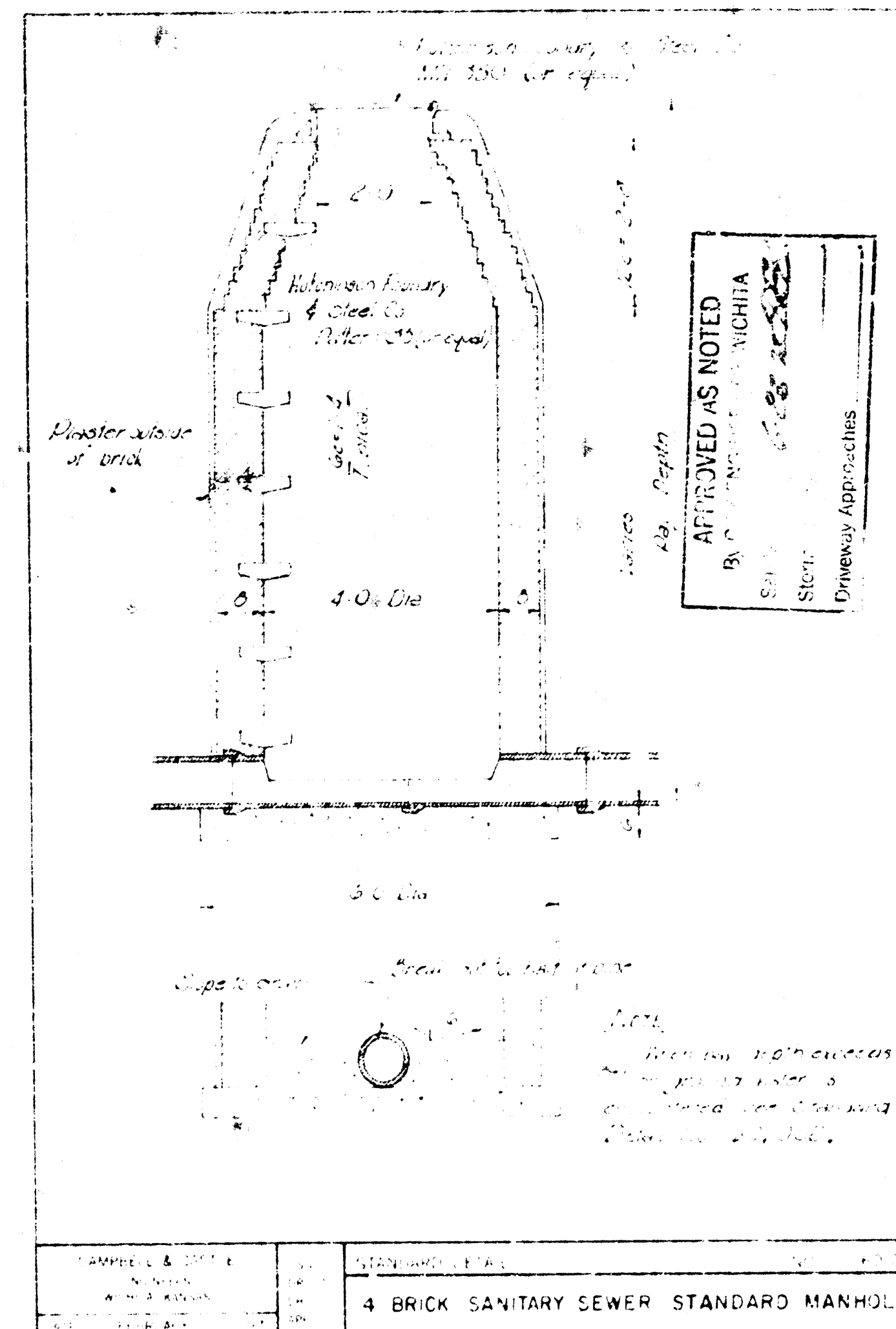
CAMPBELL & CASTLE, P.A.
Engineers
Wichita, Kansas

COMMUNICATIONS
TO THE CITY OF
WICHITA, KANSAS
FROM THE CITY OF
WICHITA, KANSAS
DATE: JUNE 14, 1972
SUBJECT: SANITARY SEWER SERVICE
PLANS AND SPECIFICATIONS

FILES 7224

- SECTION 2.2
TRENCHING AND BACKFILLING
- GENERAL REQUIREMENTS
1. Includes trenching and backfilling for pipe lines, excavation for appurtenances and minor structural excavation, filling, compacting, jacking, clearing, hauling and incidental work required to complete construction.
 2. Includes borrowing additional material needed or disposal of excess excavated material.
 3. Complete earthwork as shown on plans to line and grade as set.
 4. Strip vegetation and other objectionable material from areas prior to beginning excavation or depositing embankment.
 5. Provide crossings over trench where required to maintain traffic.
 6. Repair cuts in improved streets and alleys.
- TRENCHING
1. Excavation of trenches for pipe lines and other excavation is unclassified.
 2. Remove substances encountered regardless of nature, condition or moisture content.
 3. Provide necessary bading, pumping, and sheeting.
 4. Width of trenching below pipe shall not be less than 12 or more than 16 inches wider than outside diameter of pipe.
 5. Excavate trench to provide bearing for full length of pipe.
 6. Excavate recesses to receive bells.
 7. Provide firm foundation for pipe by excavating unsuitable material under pipe for full width of trench and replace with gravel or other suitable material properly compacted.
- BACKFILLING
1. Use only approved materials producing dense, well-compacted backfill.
 2. Use no mud, frozen soil, debris, or soil containing vegetation.
 3. Tamp backfill in lower portion of trench to at least 6" above pipe.
 4. Compact backfill in upper portion of trench, where shown on plans, by tamping material placed in layers not more than 6" in depth or by flashing and vibrating sand backfill.
 5. Jet backfill in upper portion of trench, where shown on plans, by means of approved pressure jet.
 6. Backfill of upper portion of trench, not otherwise specified or indicated on plans, to be neatly mounded over trench.

2.2.1



- SECTION 5.1
SANITARY SEWERS
- GENERAL REQUIREMENTS
1. Construct sanitary sewers using vitrified clay pipe except where otherwise specified or shown on plans.
 2. Construct appurtenances as detailed.
 3. Complete construction as shown on plans to true line and grade, permitting "lean pipe" of lines between appurtenances.
 4. Installation or exhibition of sewer lines shall not exceed 500 gallons per day per inch nominal diameter per mile.
 5. When water lines are crossed by the sanitary sewer in the construction of the project, the sanitary sewers will be constructed of cast iron pipe for a distance of 10 feet in each direction from the crossing, unless the water line is 2 feet or more above the sanitary sewer.
- MATERIALS
1. Vitrified clay pipe.
 - a. New materials unless otherwise specified.
 - b. Designated strength, standard strength and extra strength conforming to ASTM C 13 and ASTM C 200 respectively.
 - c. Vitrified clay pipe, not otherwise specified or indicated on plans, to be standard strength.
 - d. Acid soluble matter not to exceed 0.25 percent.
 - e. Testing in accordance with ASTM C 301.
 - f. Each shipment accompanied by test certificate from manufacturer or independent laboratory.
 2. Joints to be compression type conforming to ASTM C 425.
 3. Concrete for appurtenances to be class 3 in accordance with Section 3.6.
 4. Brick for appurtenances to be grade SW building brick or grade SW facing brick in accordance with ASTM C 62 and ASTM C 216 respectively.
 5. Mortar and grout shall consist of materials as specified in Section 3.6, mixed in the following proportions by volume:
 - a. Mortar for brick laying 1 part cement, 2 parts sand
 - b. Mortar for plastering 1 part cement, 1-1/2 parts sand
 - c. Grout 1 part cement, 1 part sand
 6. Castings to be class 30 gray iron in accordance with ASTM A 48.
 7. Cast iron pipe.
 - a. Conforms to ASA Spec. A 21.6 and/or A 21.8, thickness class 22, unless otherwise noted.
 - b. Exterior surfaces to have either coal tar or asphalt base coating at least one mil thick.
- CONSTRUCTION METHODS
1. Trench bottom to be manually graded and shaped.
 2. Trenching and backfilling to be Class A or 8" VCP up to 8 feet in depth unless otherwise indicated. All other trenching and backfilling to be Class C unless otherwise indicated.
 3. No pipe laid in water.

5.1.1

