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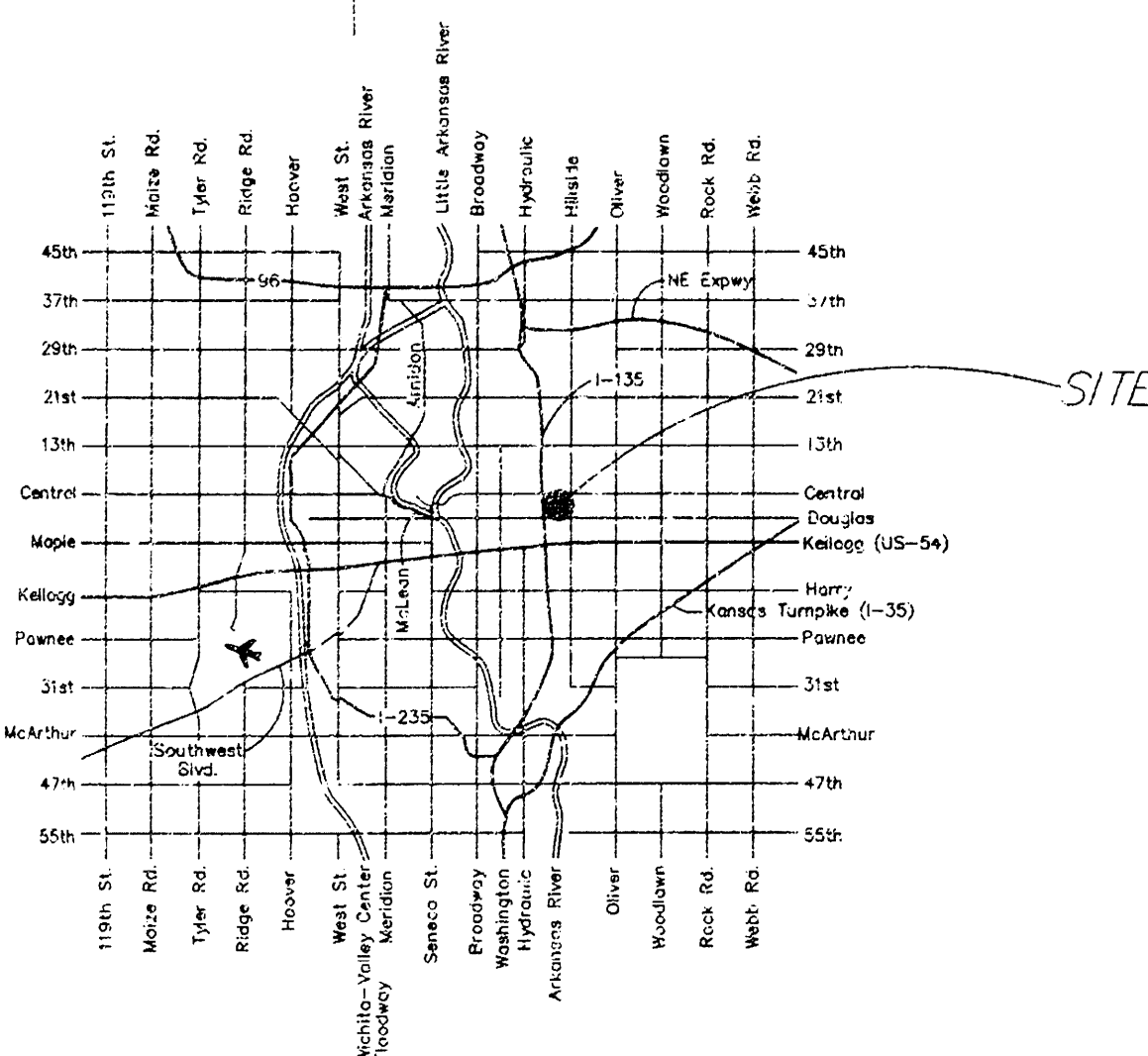
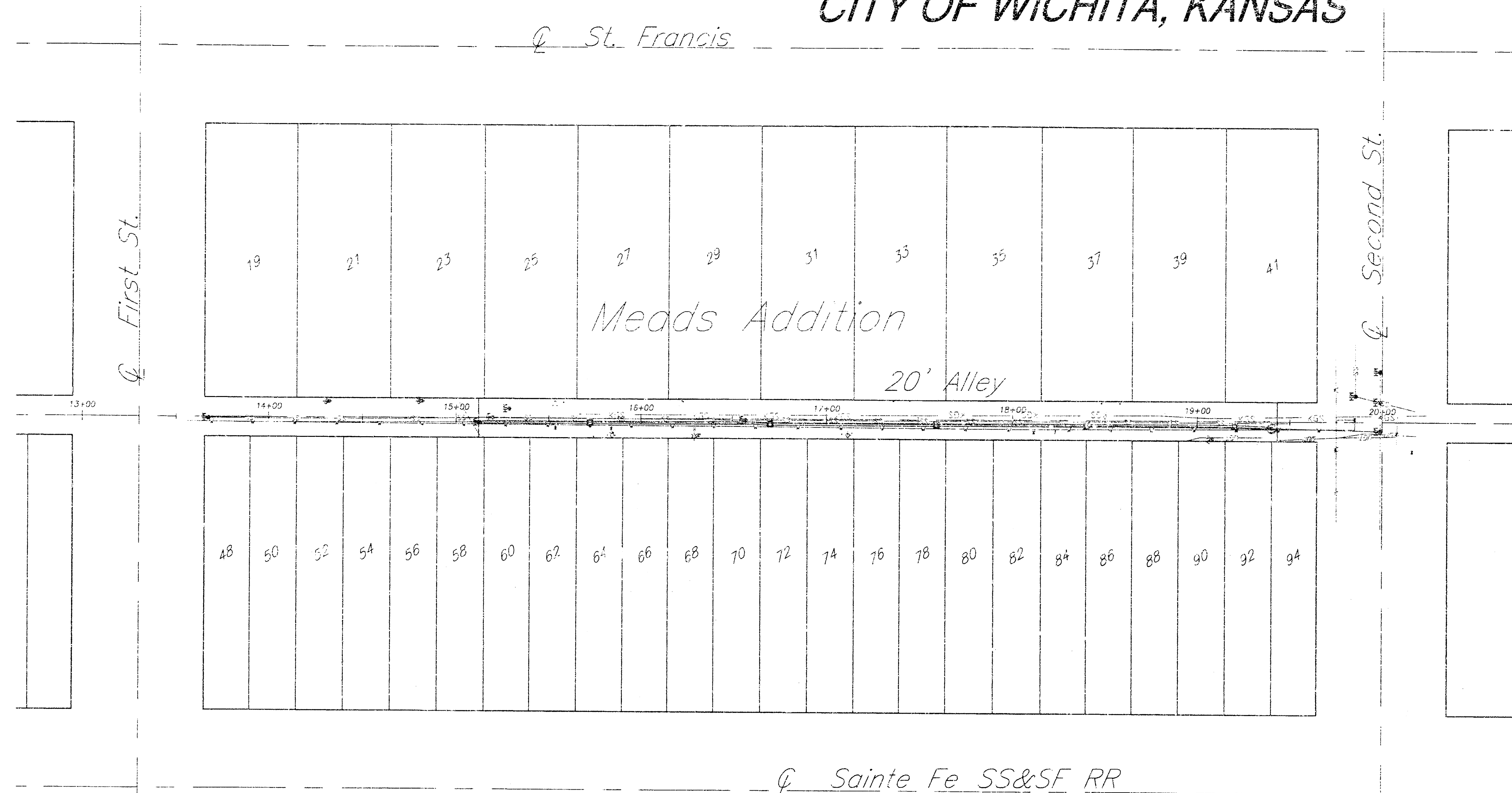
1	Cover Sheet
2	Plan and Profile Sheet
3	Shallow Manhole Detail
4	Drop Inlet Detail

STORM SEWER SYSTEM IMPROVEMENTS TO SERVE COLEMAN WAREHOUSE

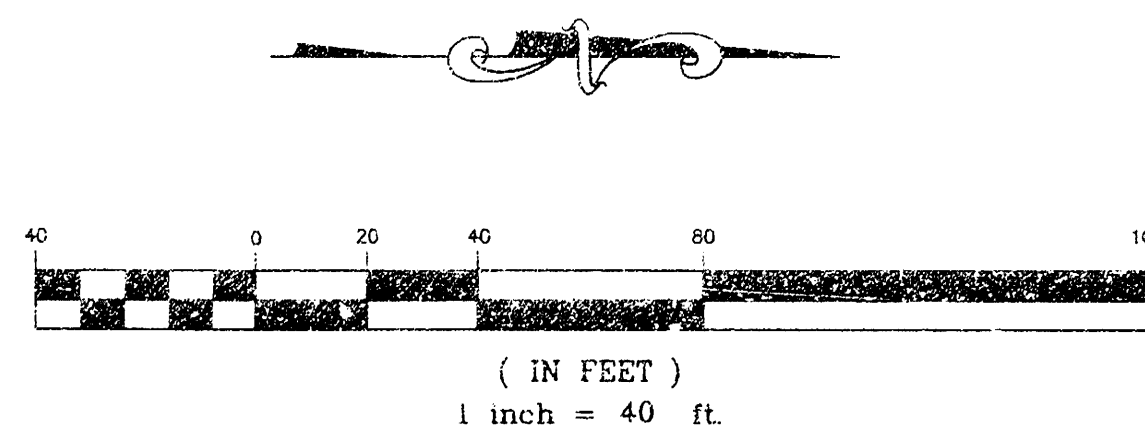
Alley East of St. Francis, North of 1st St.
and South of 2nd St., Mead Addition
1350 PPS(607861)
CITY OF WICHITA, KANSAS

GENERAL NOTES

- Contractor will be required to provide notice to utility companies a minimum of twenty-four (24) hours prior to any excavation, as follows:
Kansas One-Call 687-2470
The Contractor must notify the following in case of an emergency:
Cox Communications 262-4270
or 263-2061
Westar Energy/
Kansas Gas & Electric Company 383-8600
Southwestern Bell Telephone Company 1-571-2611
City of Wichita Water Department 268-4908
City of Wichita Sewer Department 268-4071
Aquila Natural Gas 942-8811
or 1-800-303-0357
- Exist. utilities and their locations, as shown on the plans, represent the best information obtainable for design. Location information has been obtained from the various utility companies and is either from company record drawings or company-provided field locations. The Contractor will be required to work around existing utilities which do not conflict with proposed construction.
- The Contractor to verify utility locations prior to construction of this project.
- Utility service and installation shall be coordinated with the respective utility owners. Contacts are:
Kansas Gas Service James Stoltz 831-3122
Weststar Energy Shane Price 261-6251
Aquila Networks Gas John Stark 942-8811
Wichita Water Paul Bryant 268-4555
Steve Palmer 268-4908
Southwestern Bell Jim Tobin 268-2759
Cox Communications Mark Anaya 262-4270
- All lawn/turf areas disturbed by construction of proposed improvements shall be restored with sod. All sodding work shall be in accordance with the City of Wichita standard specifications and the City of Wichita administrative regulation No. AR78 which governs cleanup and replacement following construction. All costs for this work shall be subsidiary to the lump sum price bid for "Site Restoration."
- Traffic affected by the construction of this project shall be handled in accordance with the latest edition of the Manual on Uniform Traffic Control Devices.
- All commercial signs to be moved by others prior to construction.
- Properties within the project may have underground irrigation systems (lawn sprinklers) which conflict with new construction. Contractor shall remove such components as needed during construction of the project. The irrigation system shall be reinstalled in like kind before project completion. Any irrigation system modifications required because of project improvements shall be coordinated with the property owner. Portions of underground irrigation systems not in conflict with new construction shall be protected from damage and shall remain in place. All work related to underground irrigations/sprinklers shall be subsidiary to Site Restoration.



LOCATION MAP



BENCHMARK:

"□" cut on the NW corner of parking lot curb next to driveway, 50' west of west Propertyline of St. Francis on 2nd St. Elev. = 112.26

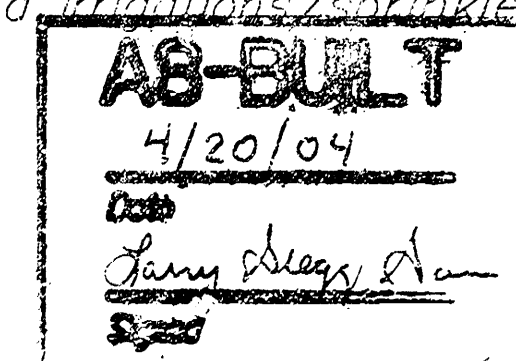
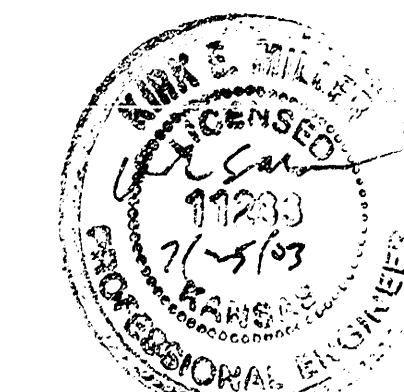
"□" cut on the SE corner of transformer pad at the w. side of the alley on 2nd St. between St. Francis and the R.R. tract overpass. Elev. = 111.95

APPROVED AS NOTED

City Engineer Office *OK 7-2503 JRL*

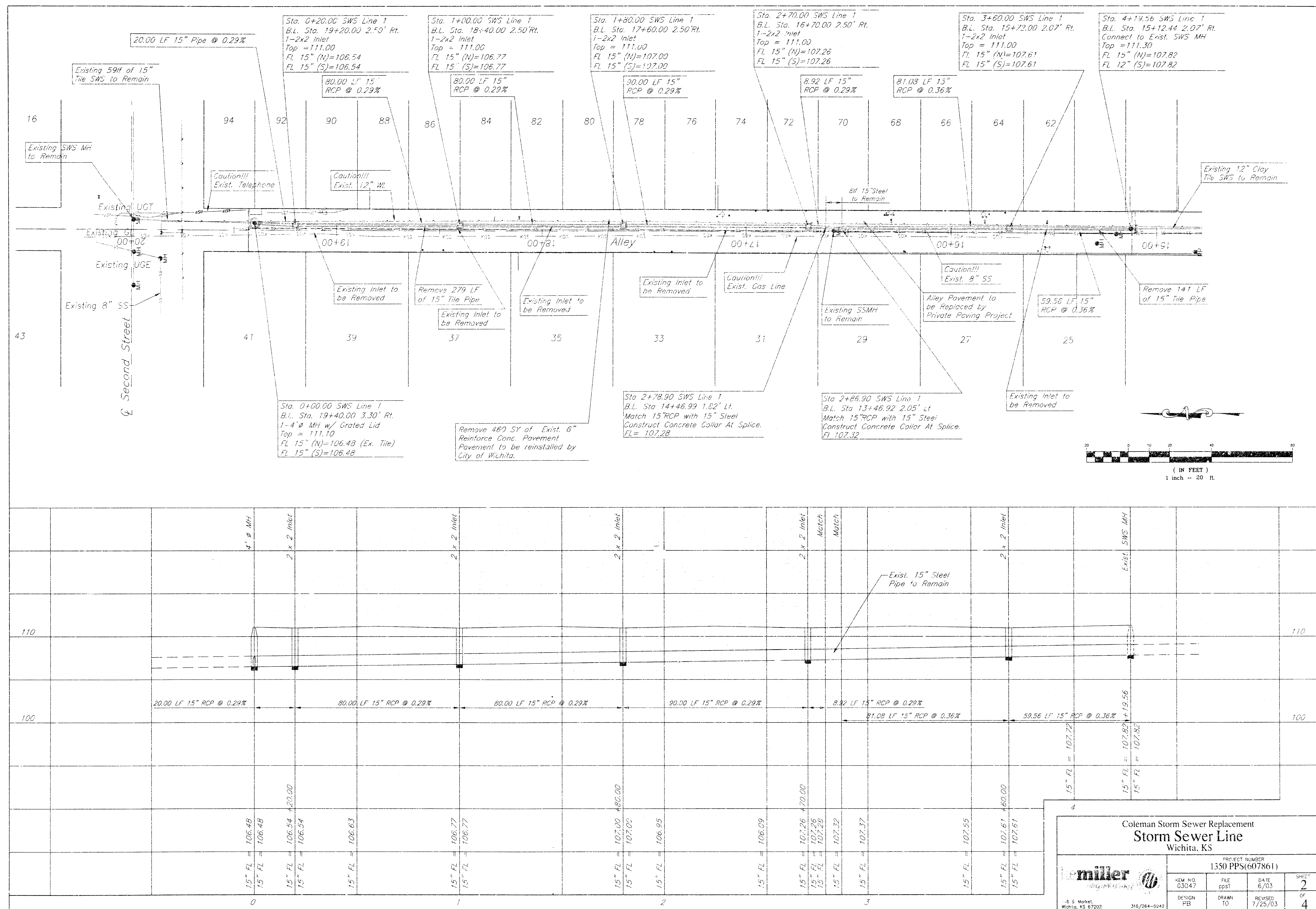
NOTE TO CONTRACTORS

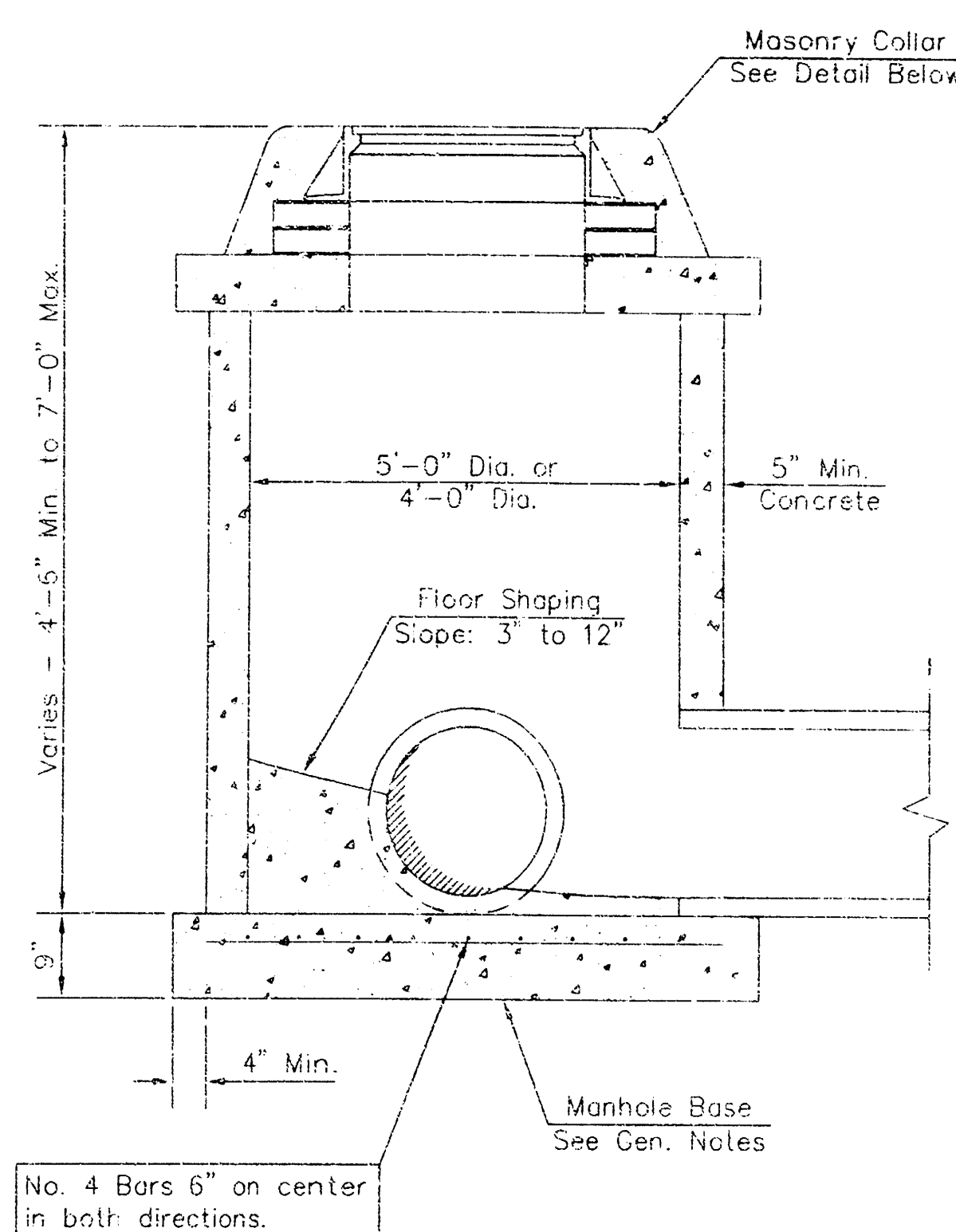
Installation, inspection and testing for this project is to be provided by a Licensed Consulting Engineering firm under contract with the Owner/Developer. Said inspection is to be in accordance with the City of Wichita standard construction engineering practices and certified by a Licensed Professional Engineer. No work shall be performed in dedicated easements or public right-of-way by the Contractor without such inspection nor shall any work be commenced without written authorization by the City Engineer. All Construction and Materials shall comply with the City of Wichita Specifications and Standards (on file and available in the City Engineer's Office).



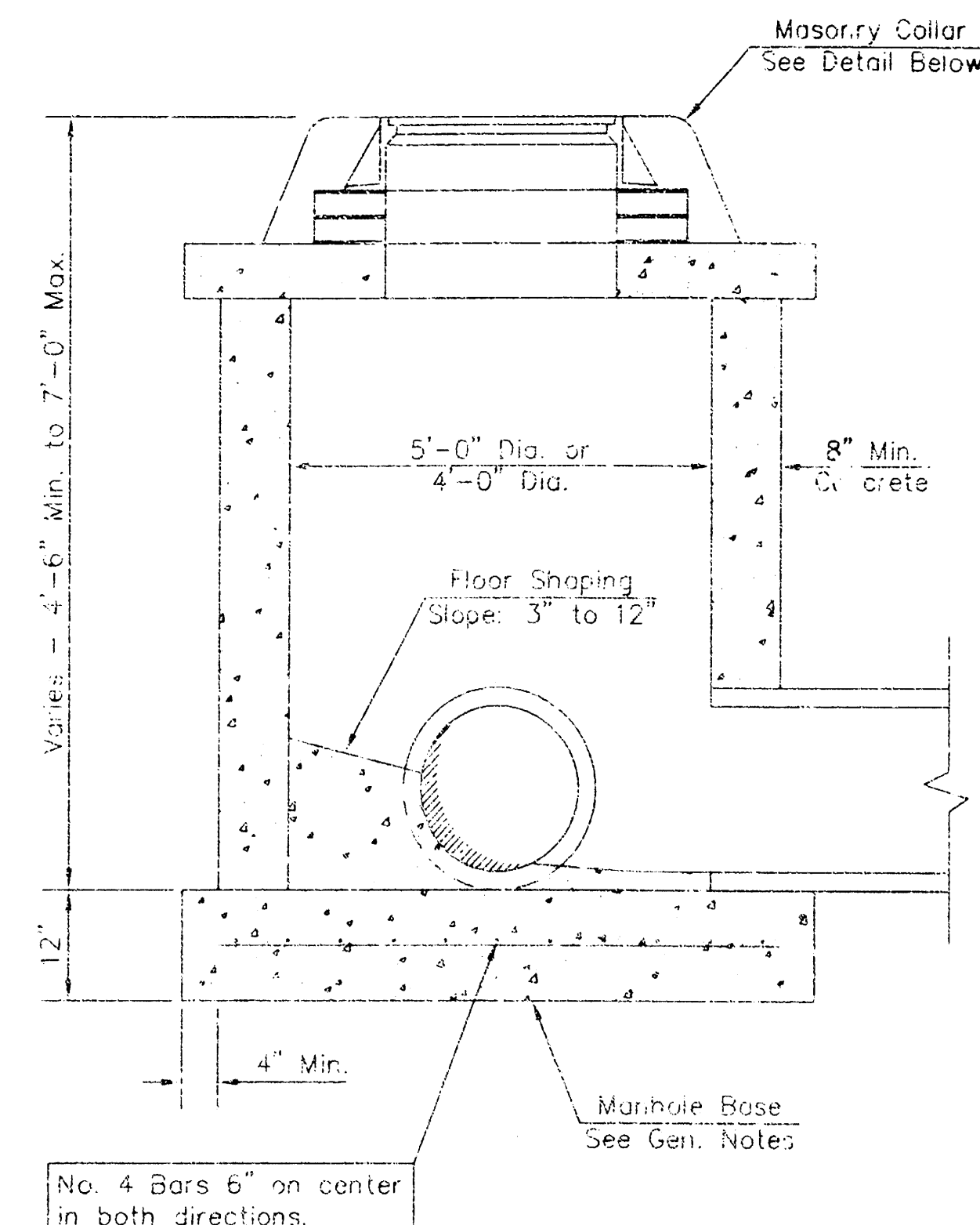
Miller
ENGINEERING

516 S. Market,
Wichita, KS 67202 316/264-0242

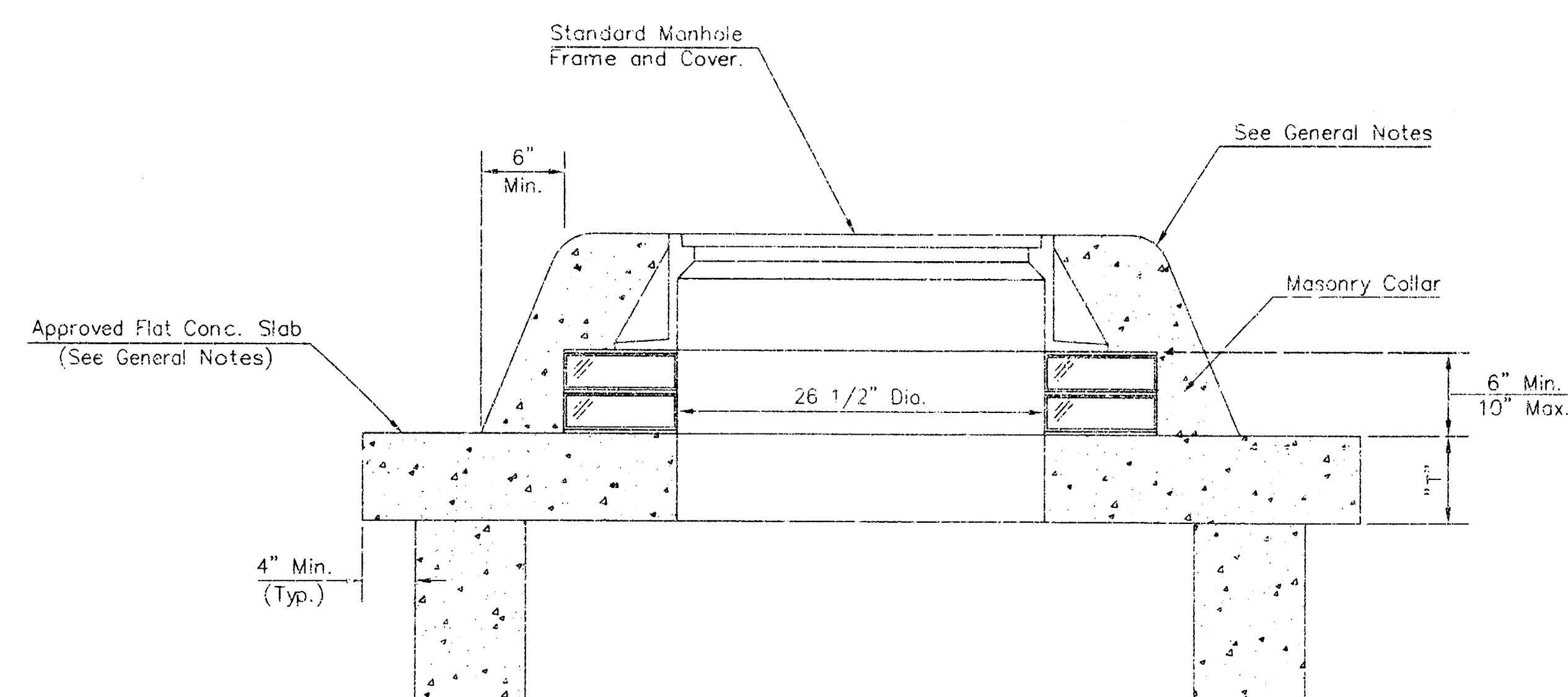




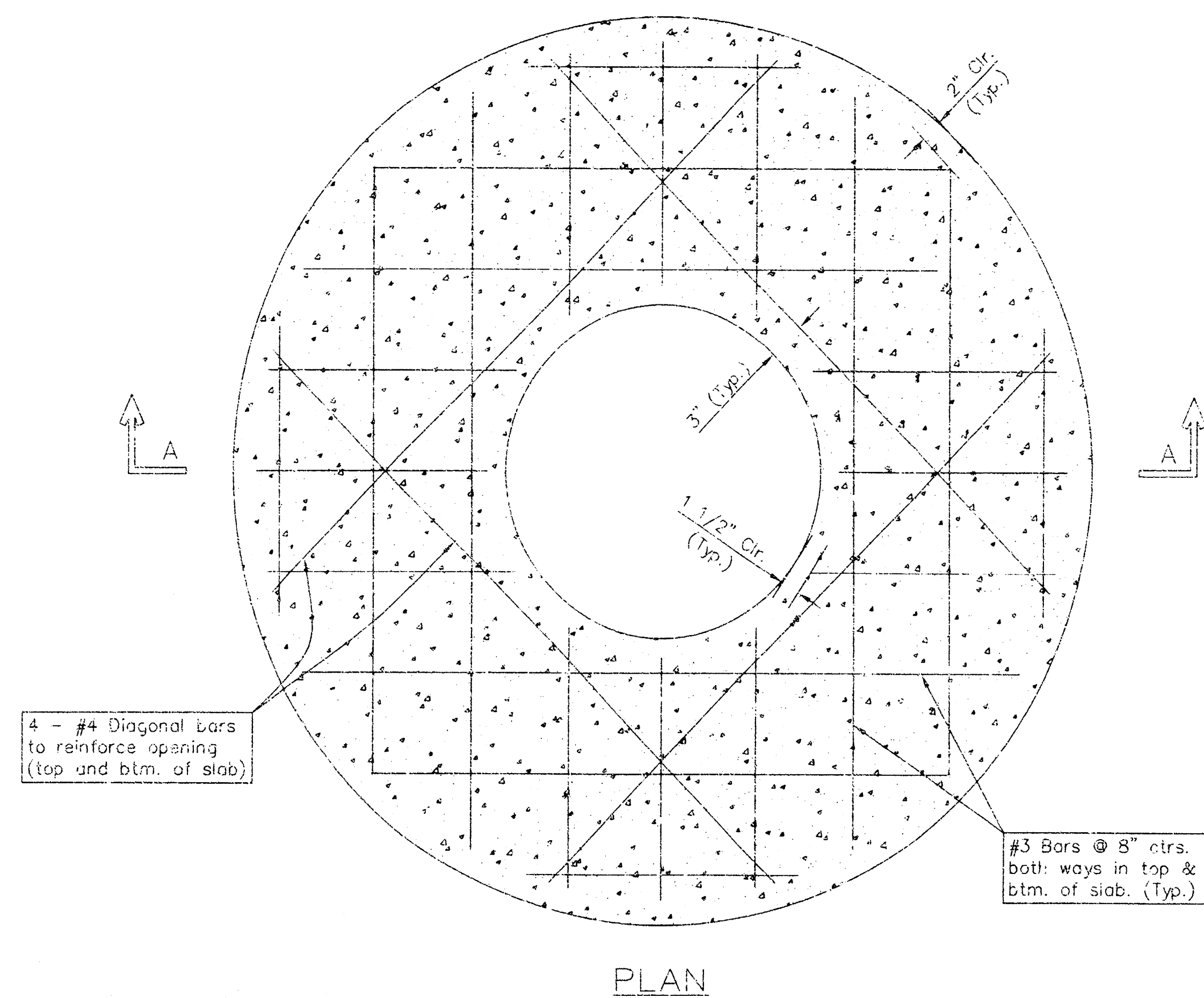
SHALLOW TYPE "P" MANHOLE



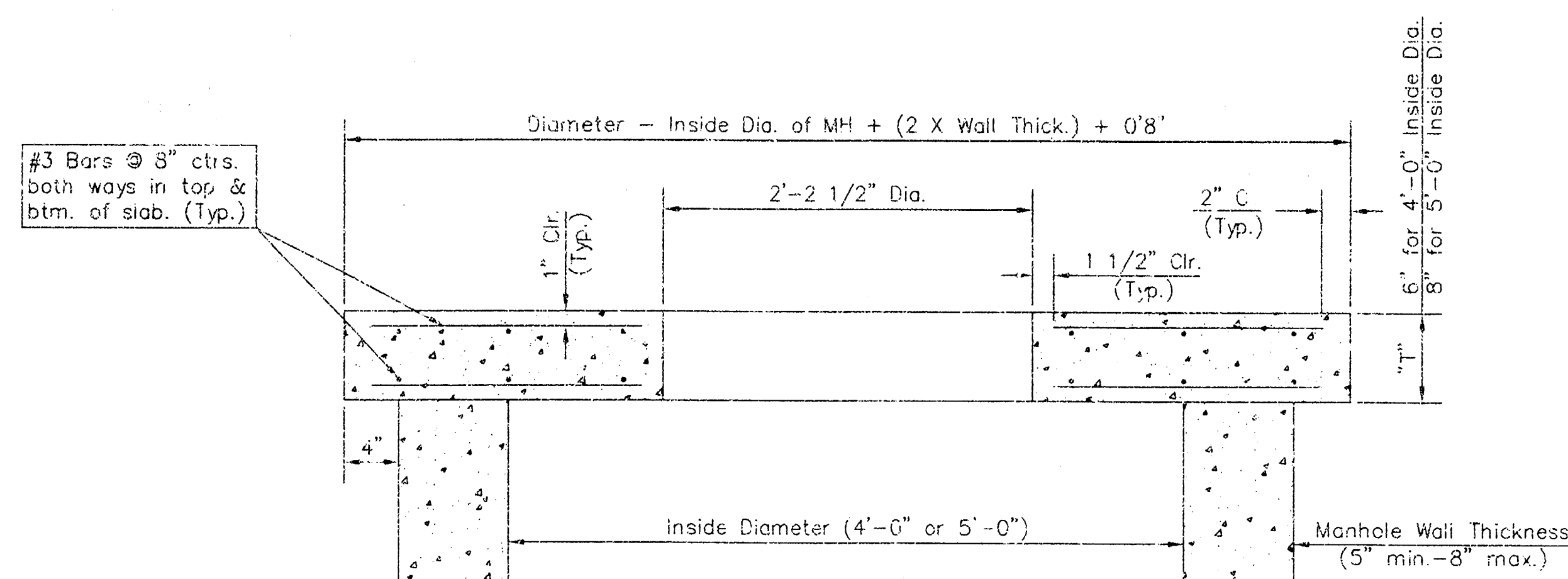
SHALLOW TYPE "C" MANHOLE



MASONRY COLLAR DETAIL



PLAN



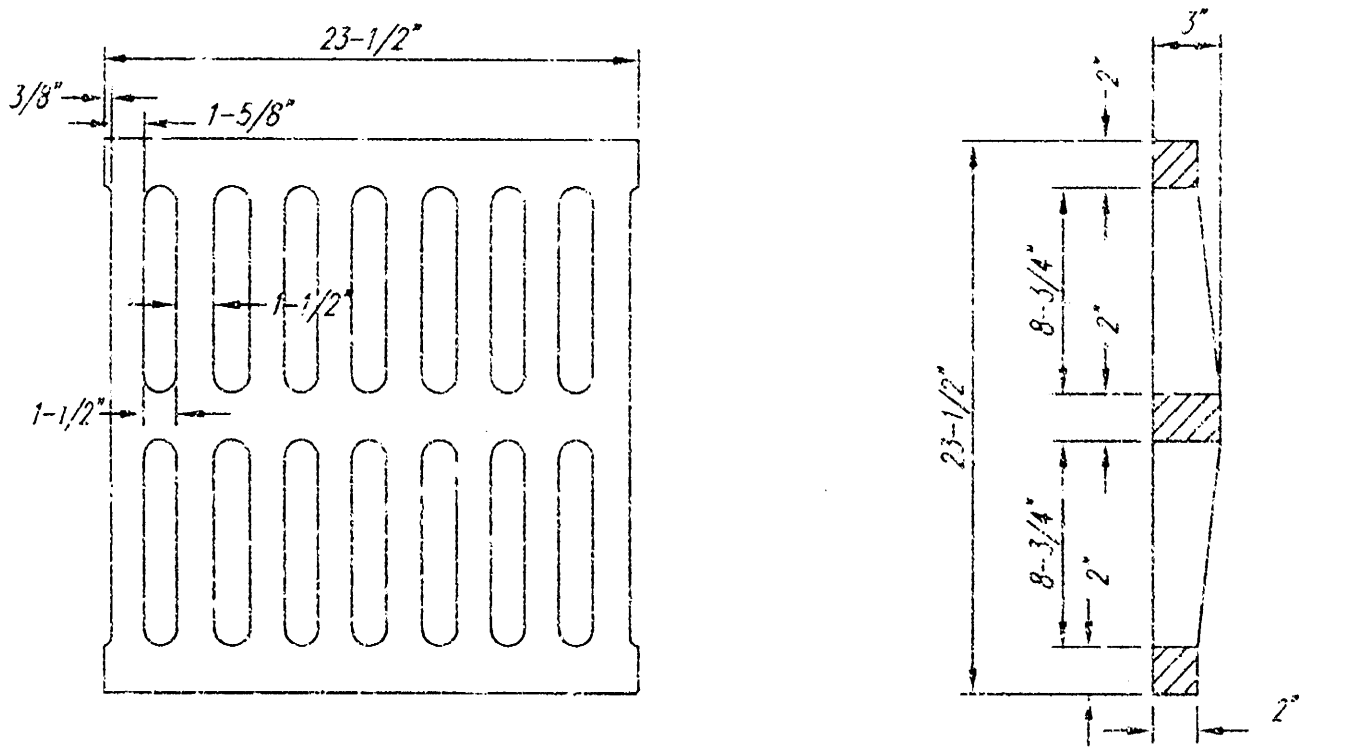
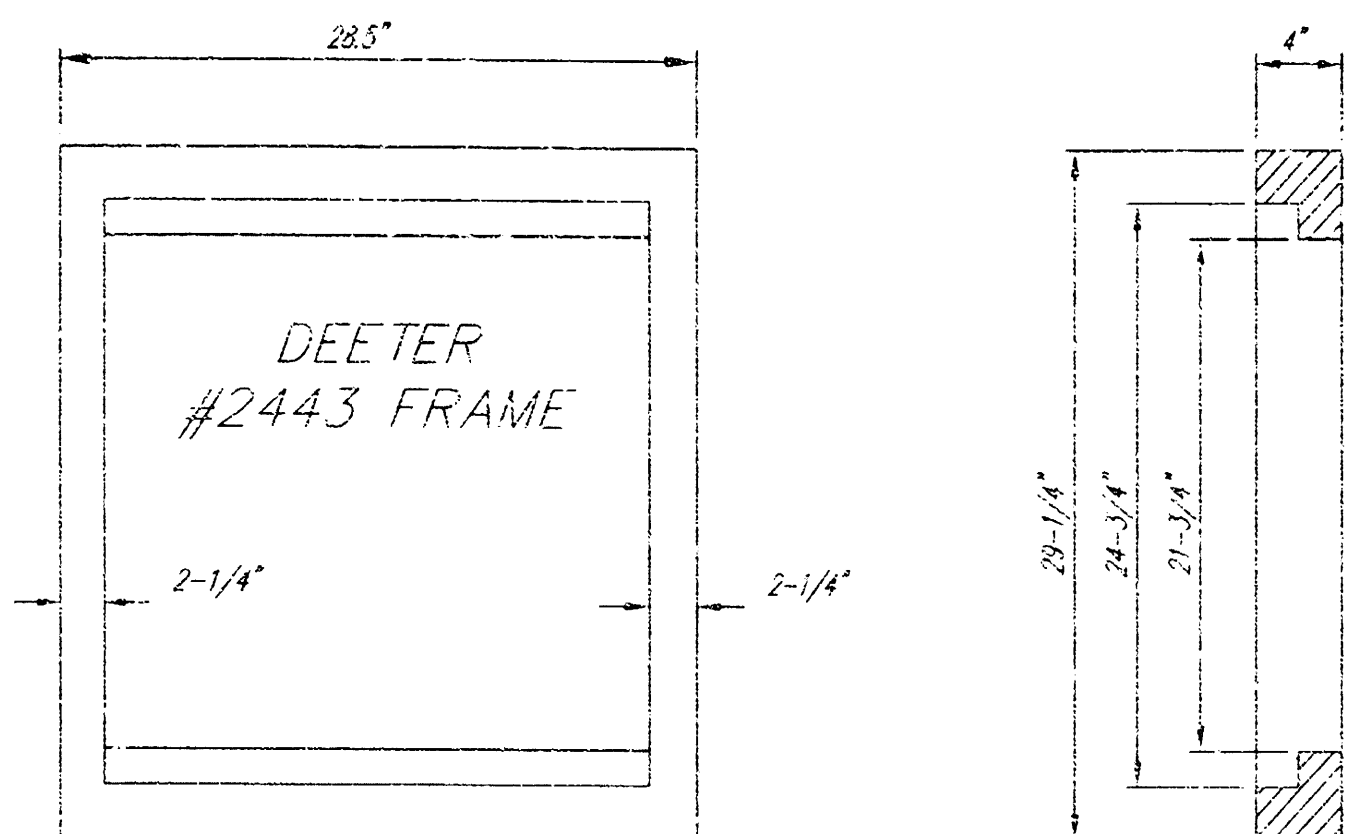
SECTION A-A

FLAT CONCRETE SLAB DETAILS

GENERAL NOTES

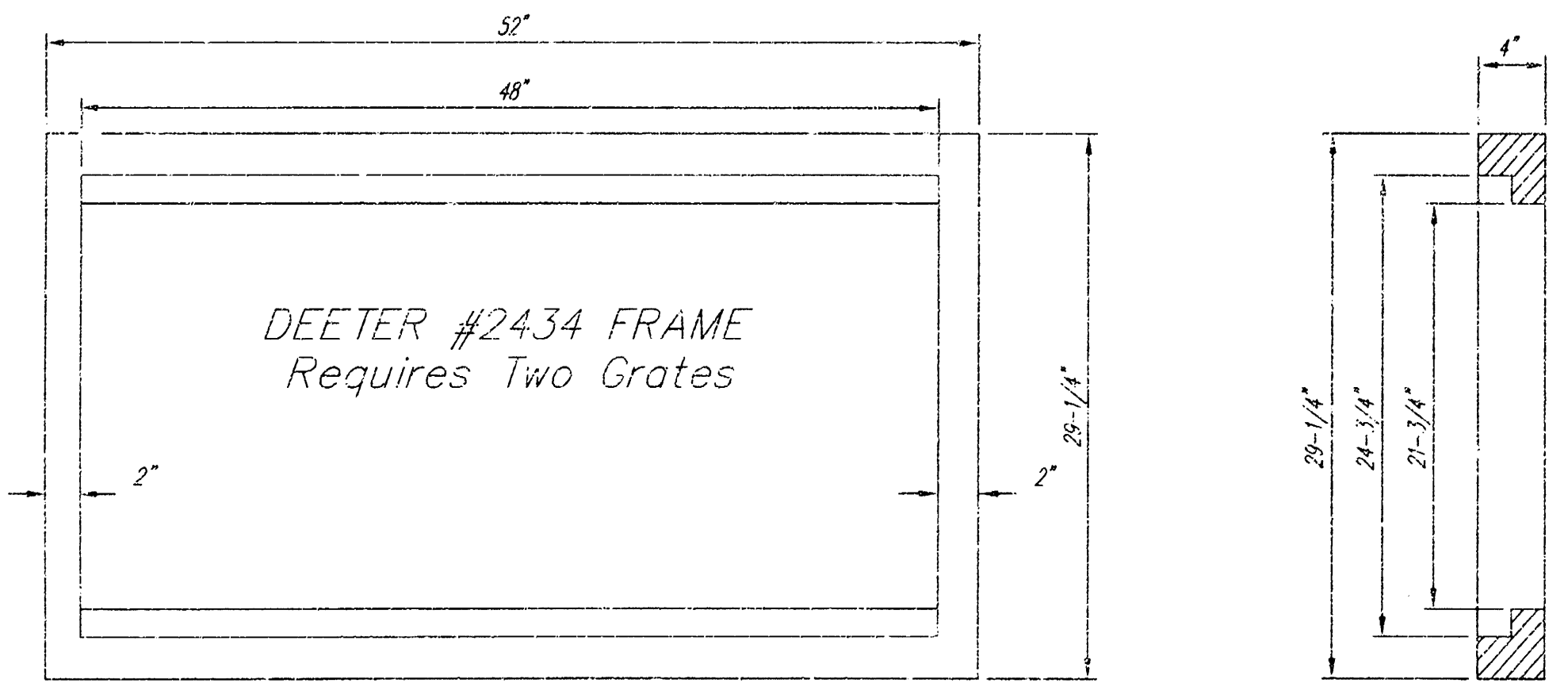
1. Mortar used in masonry construction shall contain 8 sacks of cement per cubic yard. Concrete used in manhole bases shall conform to the requirements of concrete for concrete pavement construction as specified in the city standard paving specifications using city concrete cement mix without air entraining admixture. Mortar shall be placed around the manhole ring as shown on the drawings when manholes are constructed in unpaved areas. Manholes constructed where pipe sizes are smaller than 24" shall have an inside diameter of 4". Manholes constructed where pipe sizes are 24" or larger shall have an inside diameter of 5". Completed manhole shall be without leaks and water tight.
2. Reinforcing steel shall be installed in the manhole bases and shall consist of no. 4 bars placed on 6" centers in both directions. The manhole base reinforcement shall be placed 6" above the bottom of the manhole base. All costs for furnishing and installing reinforcing steel shall be included in the unit price bid for the manhole.
3. The floors of all manholes shall be shaped with flow channels such that the manholes will be self cleaning and free of areas where solids could be deposited as sewage flows through the manhole from all inlet pipes to the outlet pipe. Flow channels shall be formed to match the bottom halves of the inflowing pipes and the outflowing pipe as shown by the drawings. Manhole floors shall have a slope of 3 inches per foot in the areas outside of the flow channels sloped toward the flow channels. Pipes laid through manholes shall have the top half removed to neat lines for the full inside diameter of the manhole. Manhole floors shall then be shaped around the bottom half of the pipe which forms the flow channel.
4. Pipes installed within the excavation made for the manhole shall be cradled with concrete to the limits of the manhole excavation. When clay pipe is used, the cradle shall extend to the first joint outside the manhole. The cradle shall be terminated at the clay pipe joint in a manner which will maintain the flexibility of the joint. Cost of cradle within manhole excavation or to clay pipe joints adjacent to manhole shall be included in the unit price bid for the manhole.
5. Manhole cover castings and manhole frame castings shall conform to the requirements as indicated in the standard specifications and as shown in the standard detail drawings.
6. The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
7. Standard shallow manholes type "P" and "C" shall be paid for at the unit price bid per each for the type and diameter indicated. All standard shallow manhole diameters will be 4' unless indicated otherwise.
8. All brick used in manhole construction shall meet Grade SW of ASTM C652 or C62-87.

THE CITY OF WICHITA CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 435 NORTH MAIN STREET WICHITA, KANSAS 67202 (316) 268-4001 (316) 268-4114 FAX	SHALLOW MANHOLES TYPE 'P' & 'C'	
	Nail D. Cable, P.E., City Engineer	
	FILE NAME Shallow MH TypeP&C	KEY PROJ 03047
	DATE MAR 96	SHEET 3 OF 4



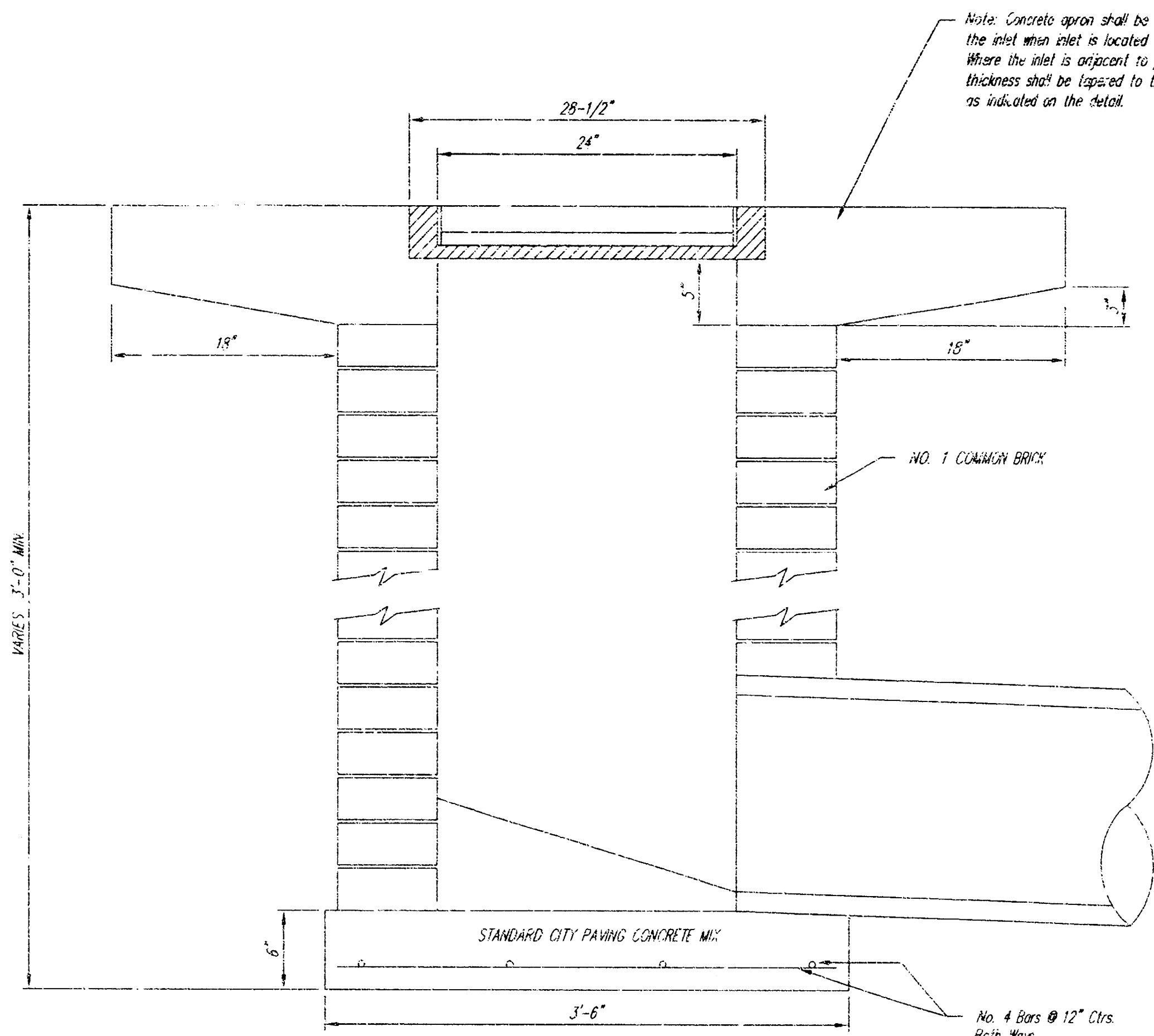
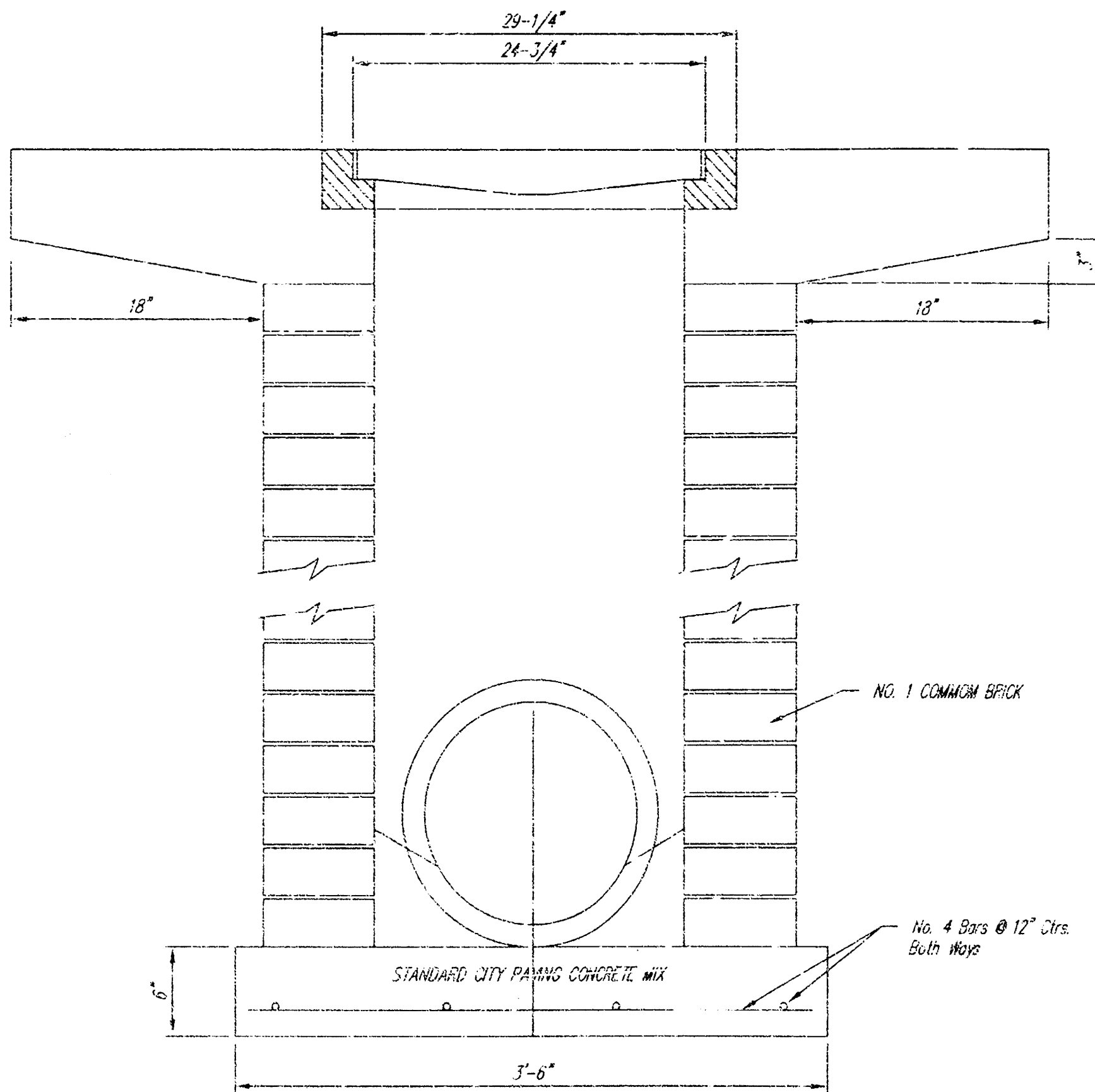
DEETER #2433 GRATE

24" x 24" Frame and Grate Detail

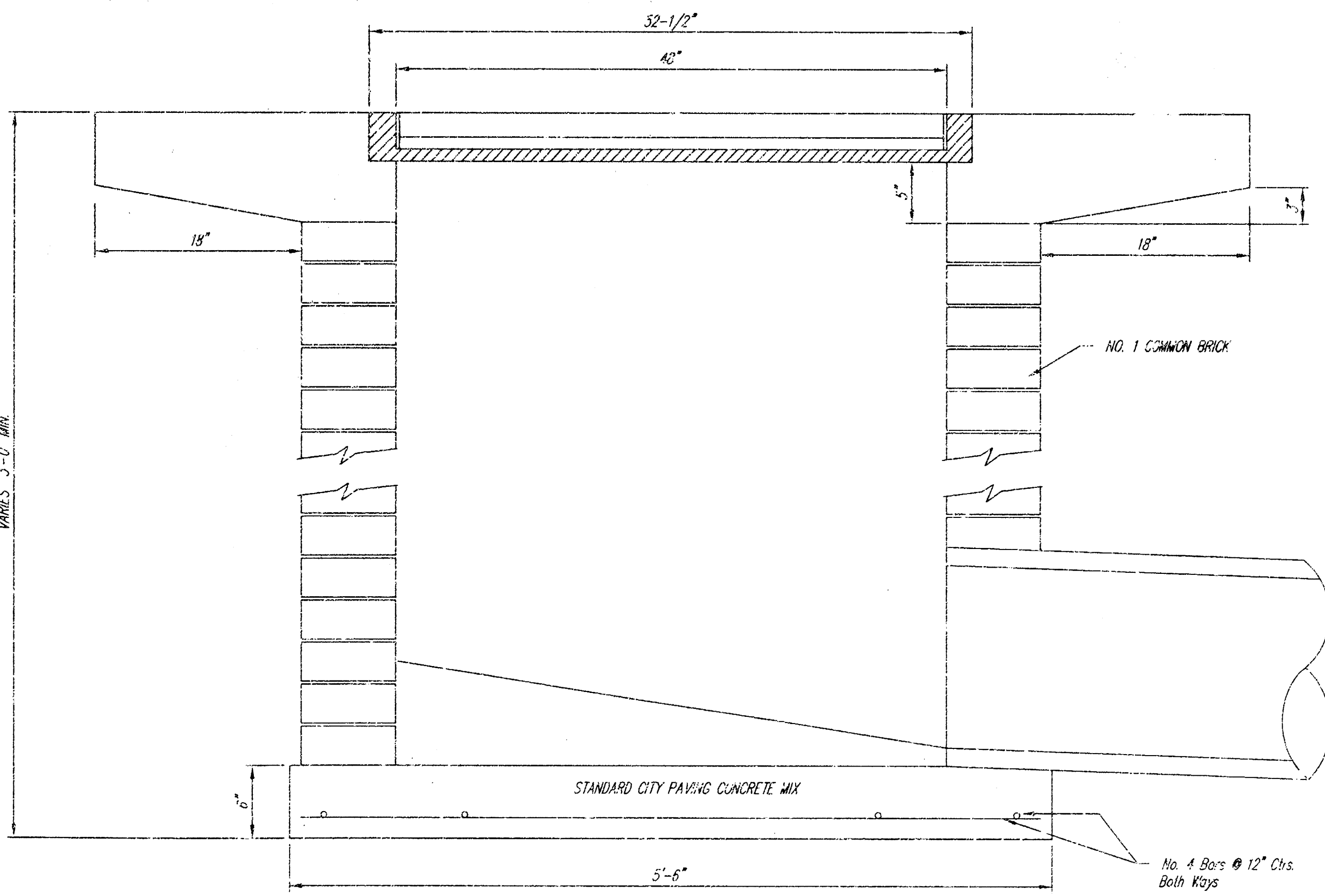


Double 24" x 24" Frame Detail

NOTE: Grates shall be imprinted on the top surface with "CITY OF WICHITA" using letters at least 1" in height. Other marking methods may be approved by the engineer.



Note: Concrete apron shall be constructed around the inlet when inlet is located in an unimproved area. Where the inlet is adjacent to pavement, the pavement thickness shall be tapered to the inlet in 18 inches as indicated on the detail.



THE CITY OF WICHITA CITY ENGINEER'S OFFICE CITY HALL - SEVENTH FLOOR 455 NORTH MAIN STREET WICHITA, KANSAS 67202 (316) 255-4500 (316) 268-6174 FAX	DROP INLET 2' X 2 1/2' X 4'	
	Neil D. Cable, P.E., City Engineer	
	FILE NAME Drop Inlet	NEW PROJ 05047
	DATE MAR 96	SHEET 4 OF 4