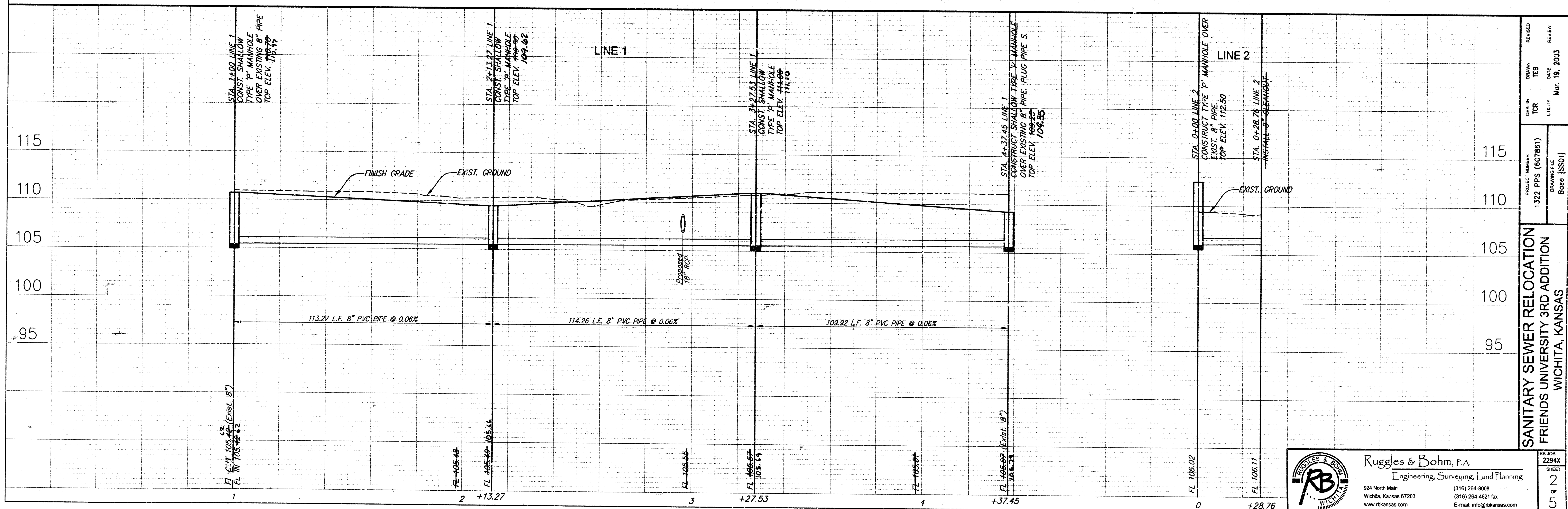
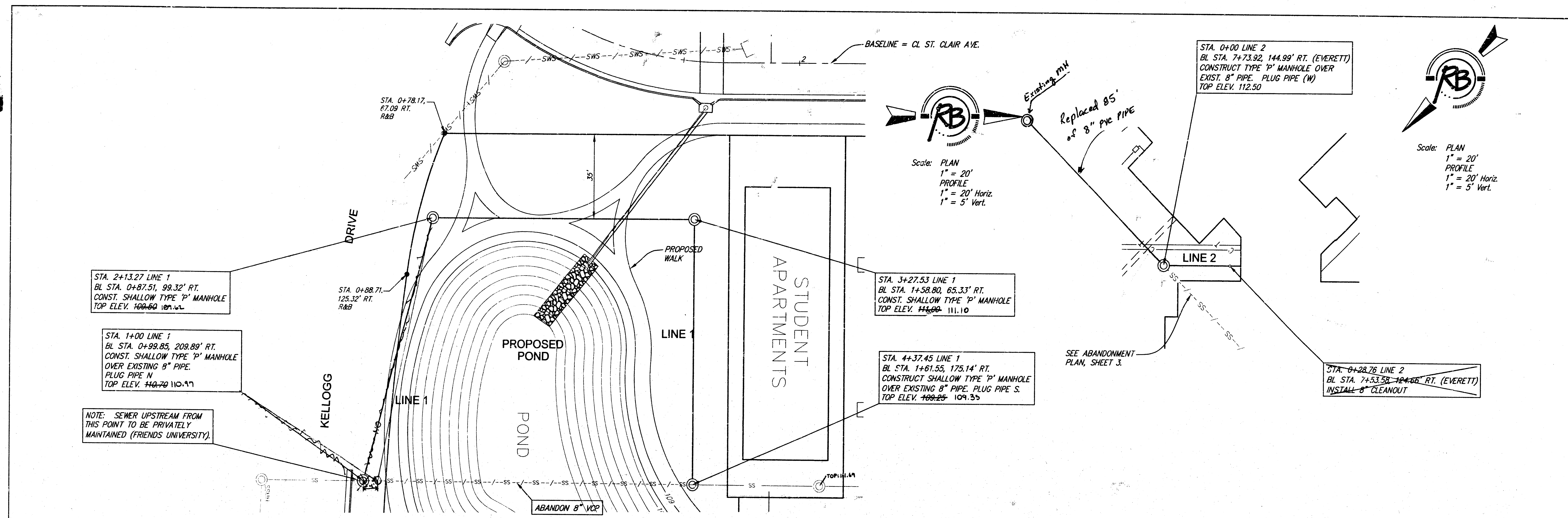
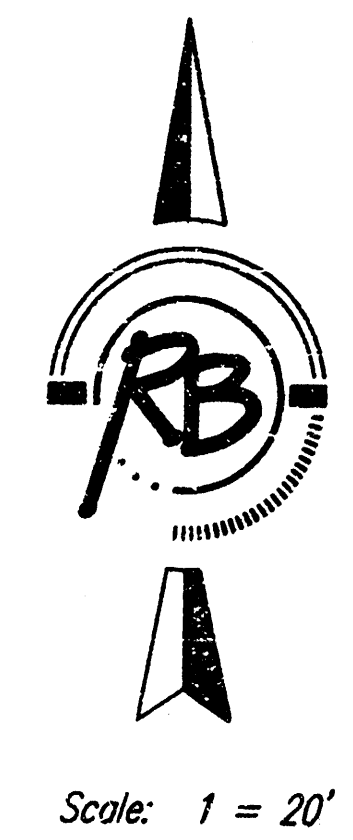
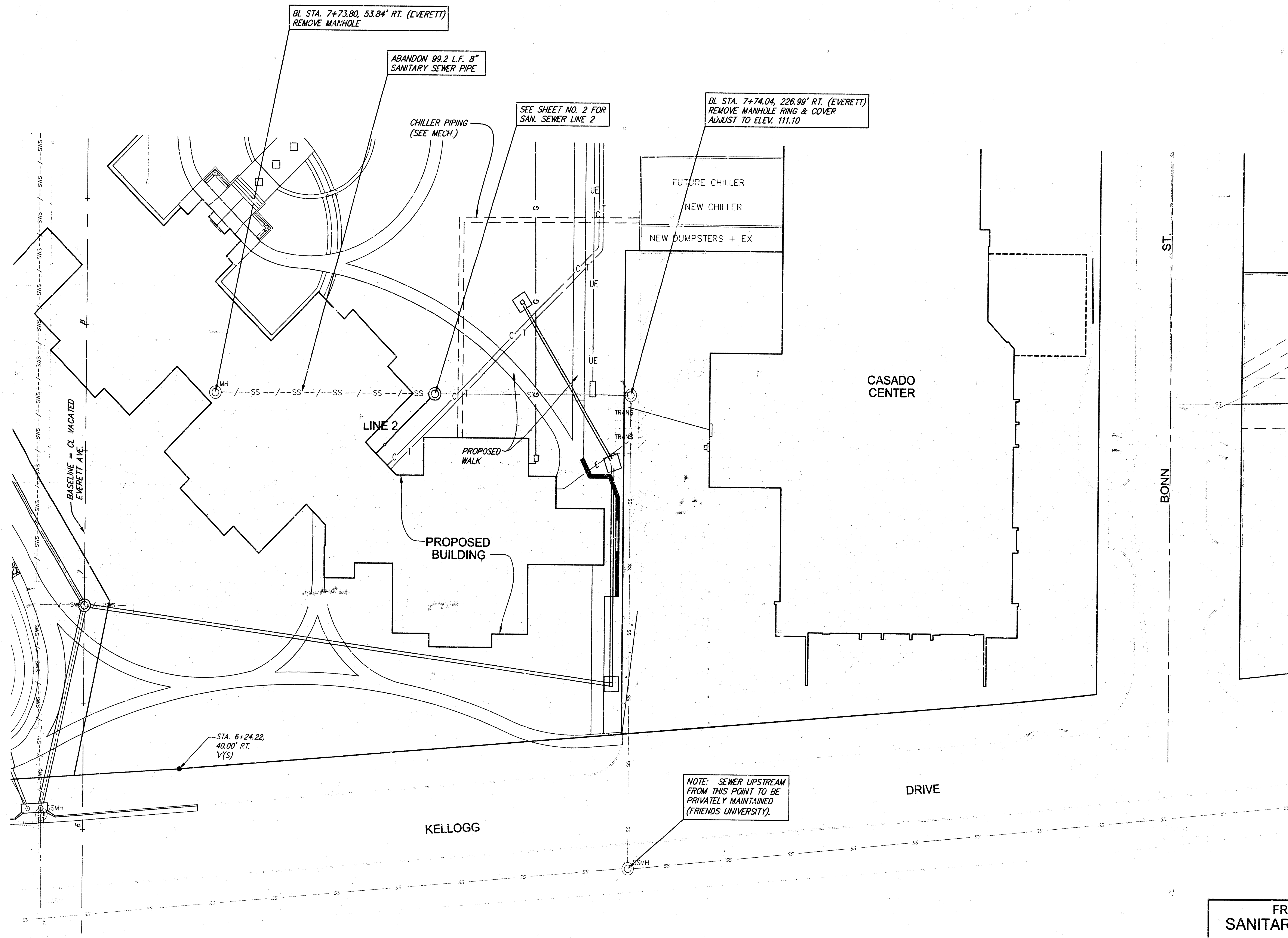
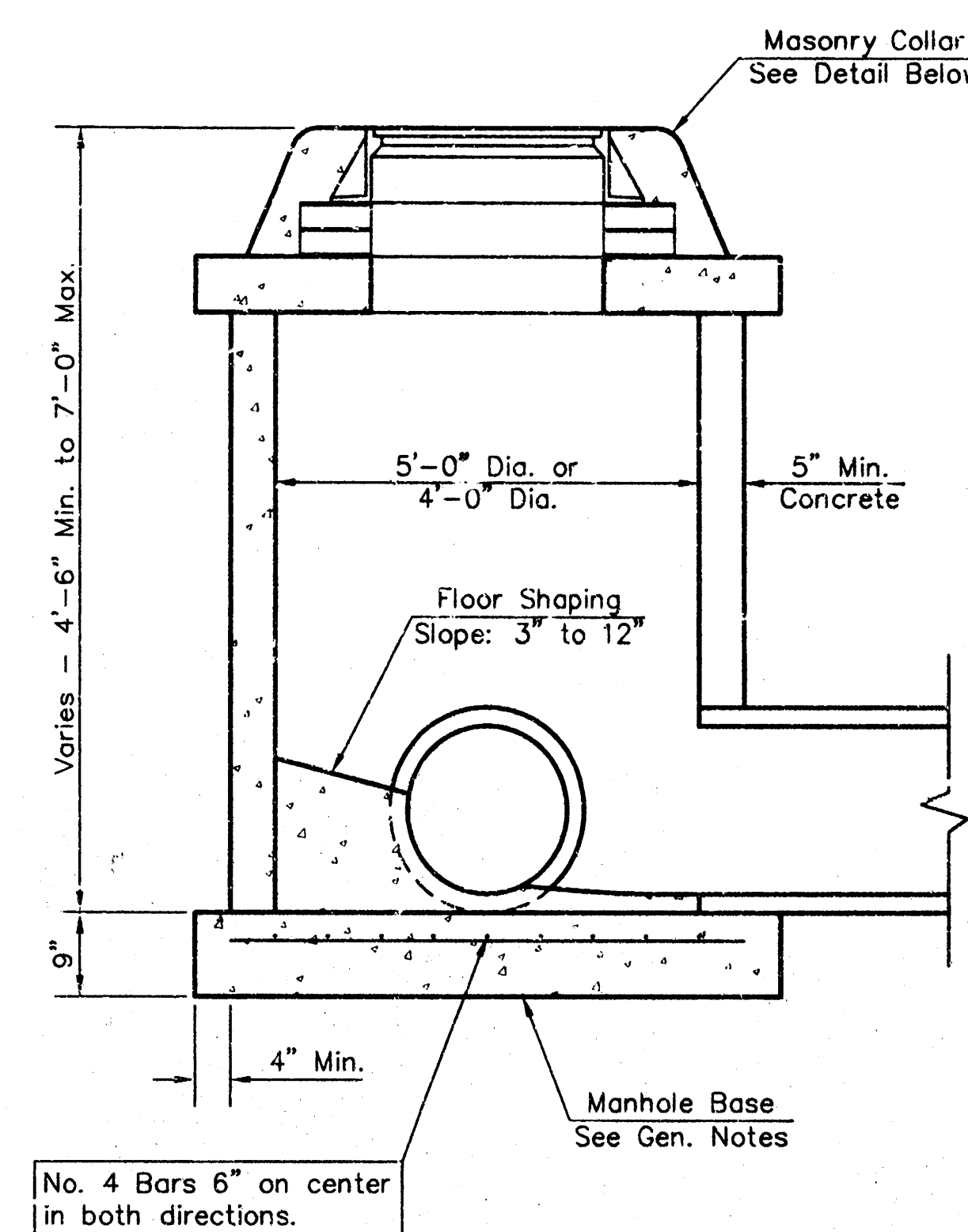


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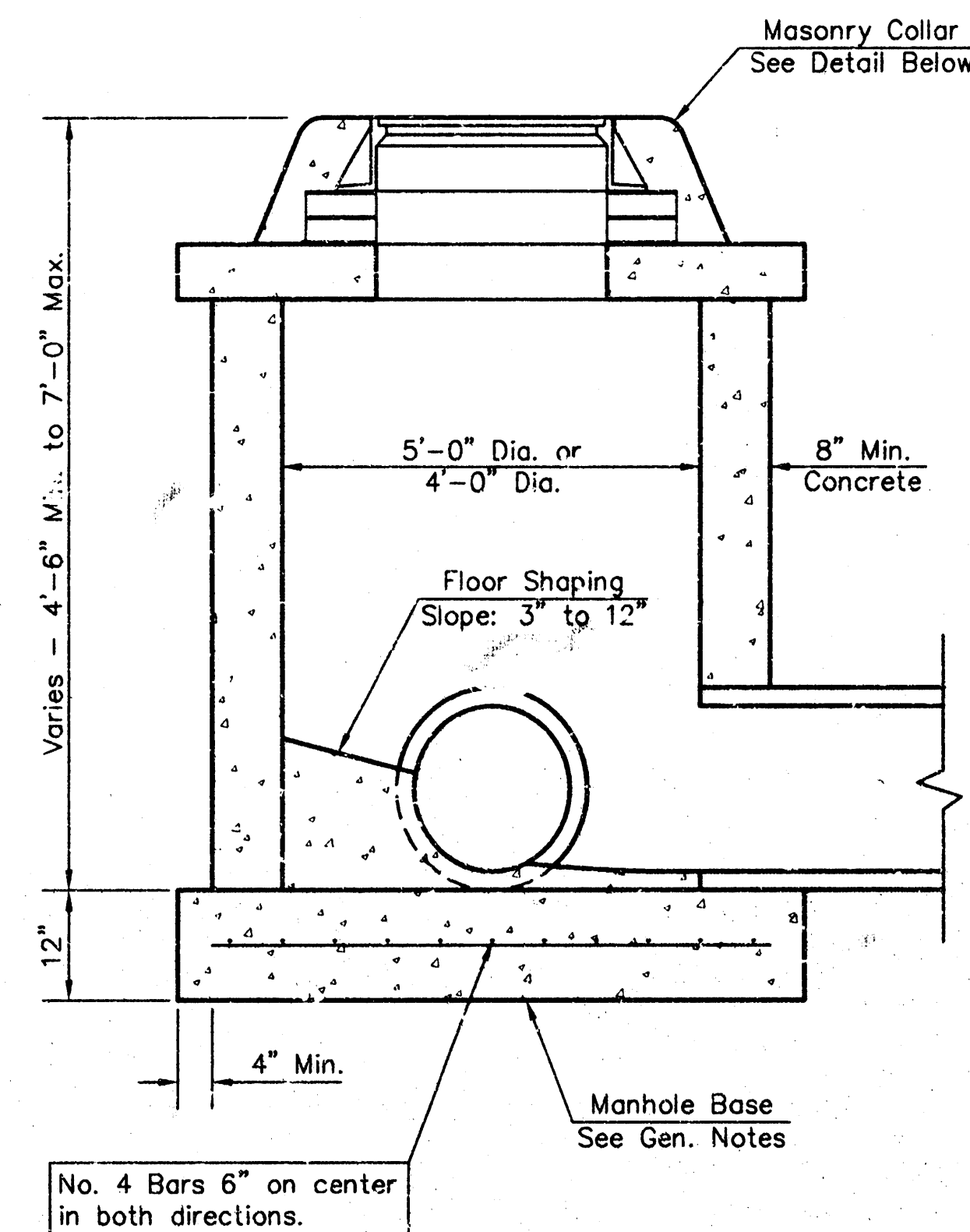




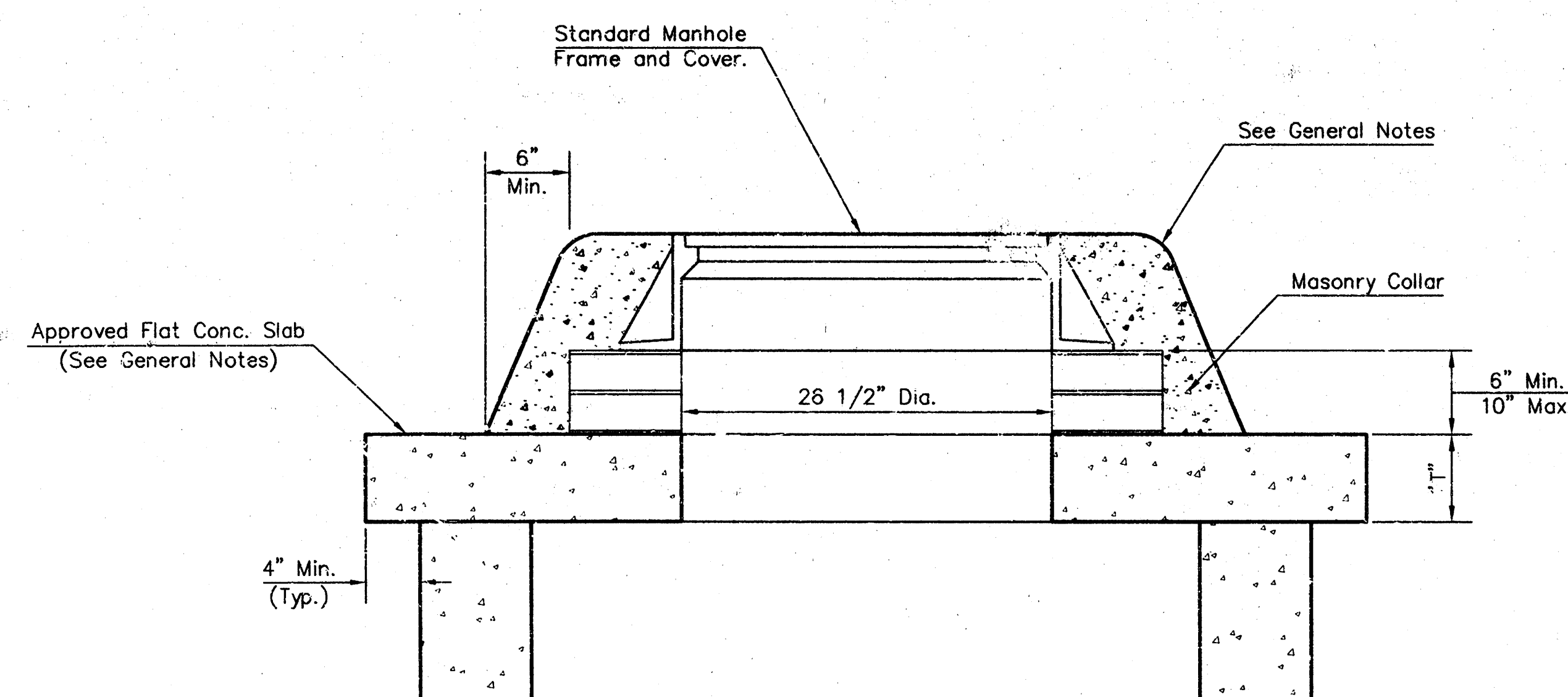
FRIENDS UNIVERSITY 3RD ADDITION SANITARY SEWER ABANDONMENT PLAN WICHITA, KANSAS			
	Ruggles & Bohm, P.A. Engineering, Surveying, Land Planning		DESIGN TCR
	924 North Main Wichita, Kansas 67203 www.rbkansas.com		DRAWN TEB
	(316) 264-8008 (316) 264-4621 fax E-mail: info@rbkansas.com		REVIEW TEB
DRAWING FILE Base {SS02}		PROJECT NUMBER 1322 PPS (607861)	DATE Mar. 19, 2003
			SHEET 3 OF 5



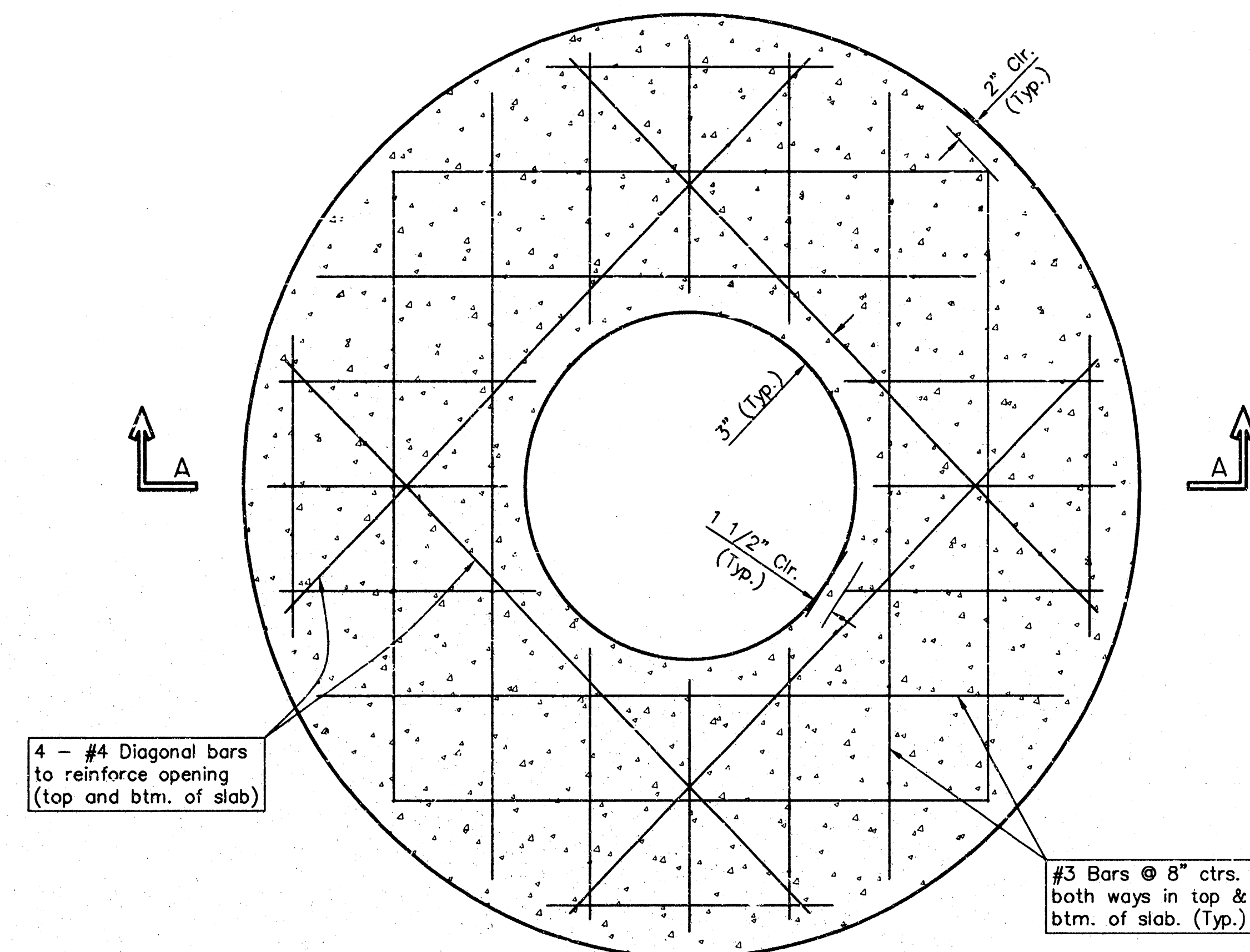
SHALLOW TYPE "P" MANHOLE



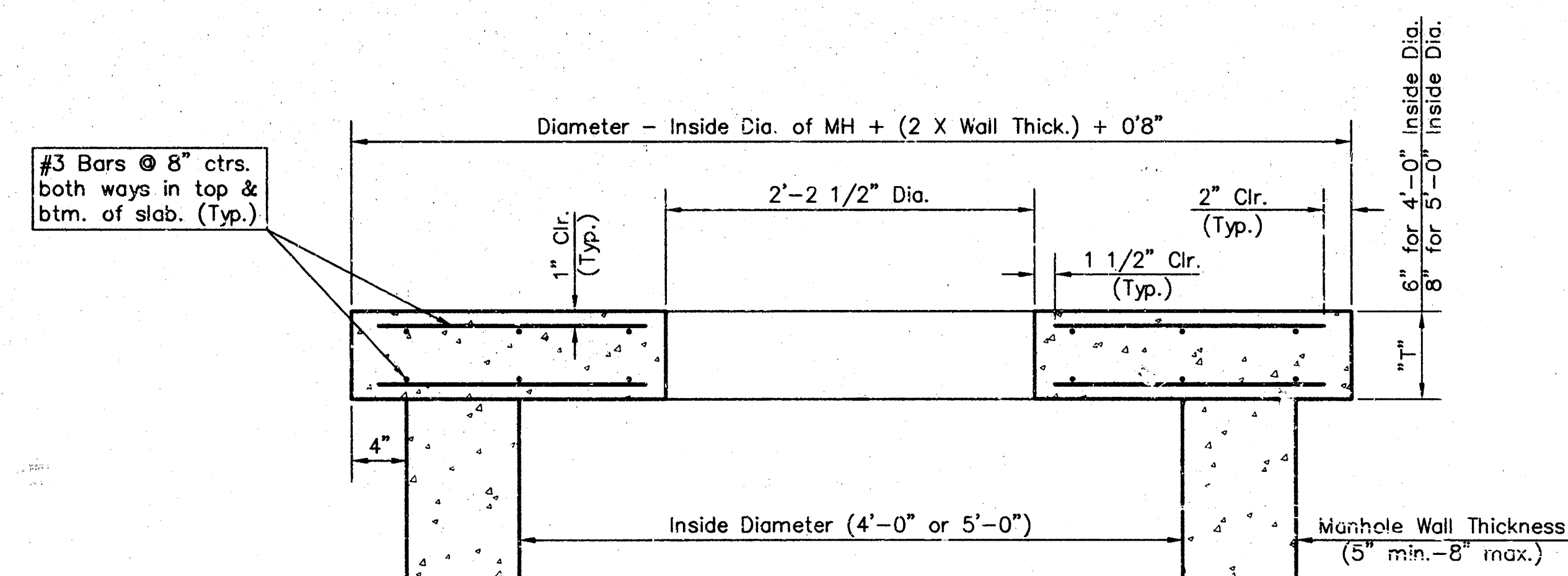
SHALLOW TYPE "C" MANHOLE



MASONRY COLLAR DETAIL



PLAN



SECTION A-A
FLAT CONCRETE SLAB DETAILS

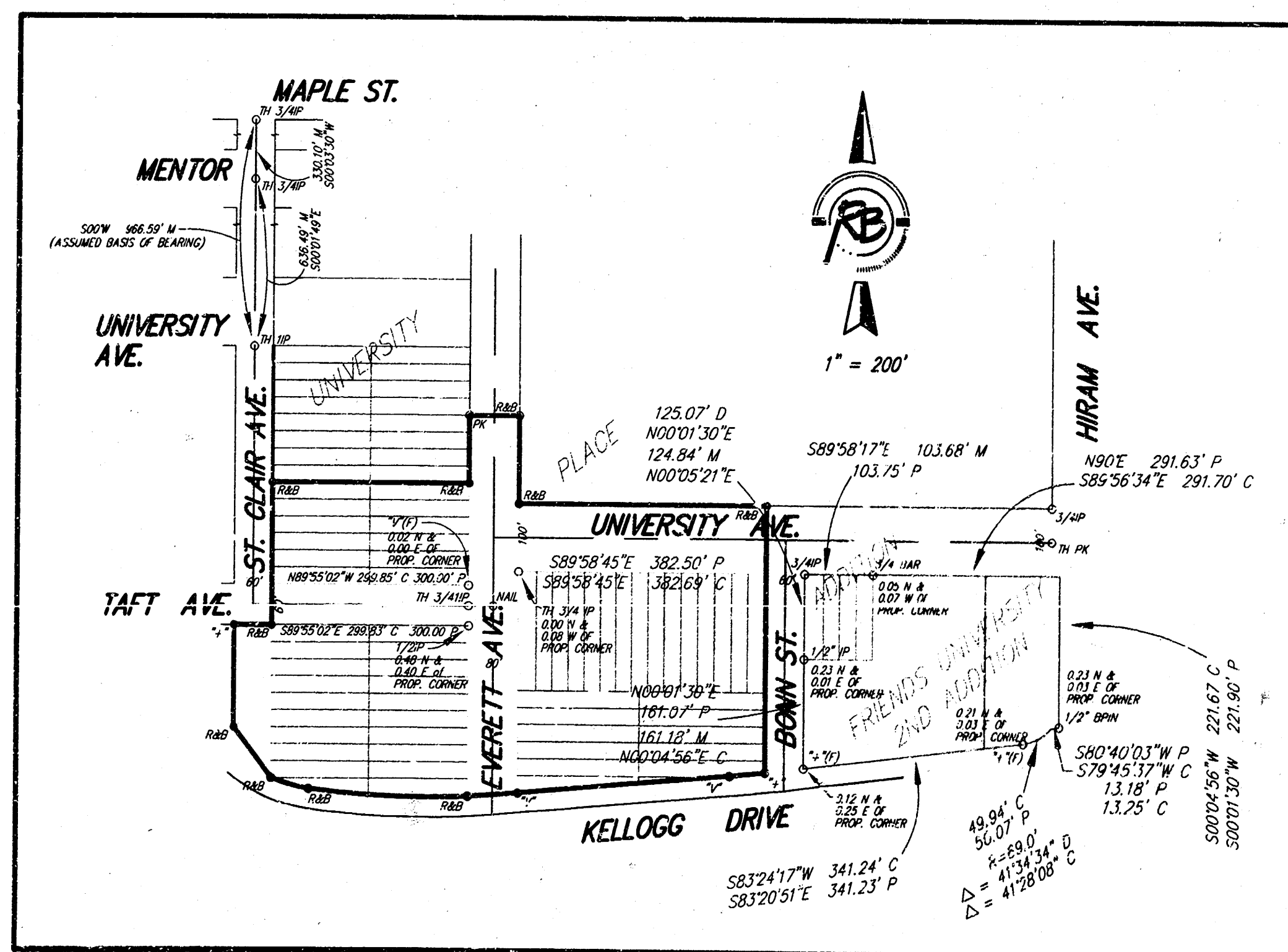
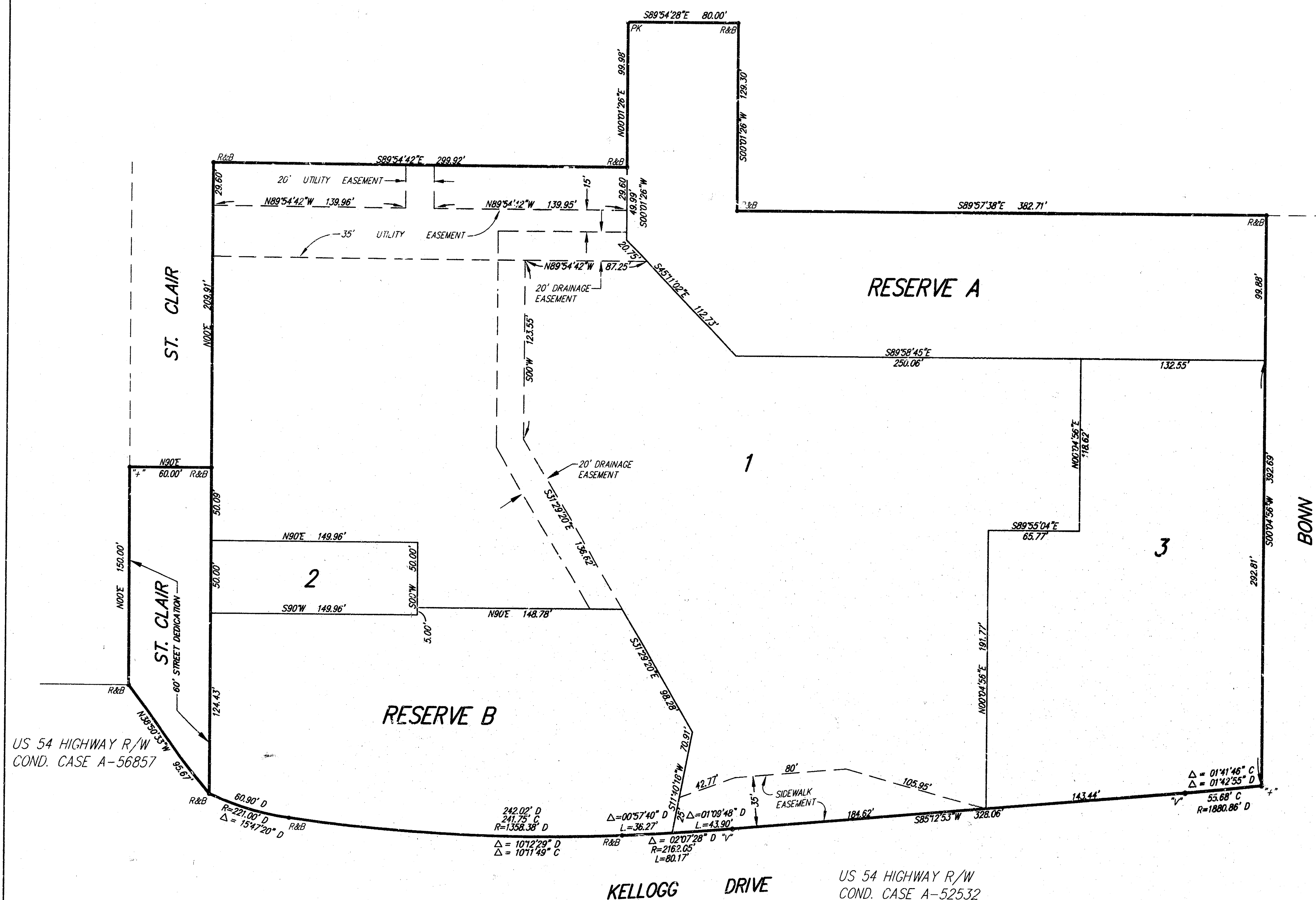
GENERAL NOTES

- 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.
- 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.
- 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 slopes 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.
- 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.
- 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.
- The crowns of inflowing pipes shall never be set lower than the crown of the outflowing pipe.
- 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.
- 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 455 NORTH MAIN STREET WICHITA, KANSAS 67202 (316) 268-4501 (316) 268-4114 FAX		SHALLOW MANHOLES TYPE 'P' AND 'C'	
M. E. LINDEBAK P.E. - CITY ENGINEER			
PROJECT NUMBER 1322 PPS		OCA # 607861	
DATE		SHEET 4 OF 5	

FRIENDS UNIVERSITY 3RD ADDITION

Wichita, Sedgwick County, Kansas



SURVEY MARKER LEGEND

- P = PLATTED
- M = MEASURED
- D = DESCRIBED
- C = CALCULATED
- 1/2" P = 1/2" IRON PIPE (FOUND)
- 3/4" P = 3/4" IRON PIPE (FOUND)
- 3/4" BAR = 3/4" BAR (FOUND)
- 1/2" BAR = 1/2" REBAR W/BAUGHMAN CAP
- NAIL = CONCRETE NAIL (FOUND)
- "Y" = CHASED "Y" (FOUND)
- TH 3/4" P = 3/4" IRON PIPE IN THIMBLE (FOUND)
- TH 1" P = 1" IRON PIPE IN THIMBLE (FOUND)
- TH PK = PK NAIL IN THIMBLE (FOUND)
- "Y" = CHASED "Y" (FOUND)
- RAB = 1/2" REBAR W/RAB CAP (SET)
- "Y" = CHASED "Y" (SET)
- "Y" = CHASED "Y" (SET)
- PK = PK NAIL (SET)

State of Kansas)
Sedgwick County) SS

We, Ruggles & Bohm, P.A., Land Surveyors in aforesaid county and state, do hereby certify that, under the supervision of the undersigned, we have surveyed and platted "FRIENDS UNIVERSITY 3RD ADDITION", Sedgwick County, Kansas, and that the accompanying plat is a true and correct exhibit of the property surveyed, described as and being a replat of odd-numbered Lots 79 through 109 on St. Clair Avenue, even-numbered Lots 80 through 112 on Everett Avenue, odd-numbered Lots 101 through 111 on Everett Avenue, odd-numbered Lots 143 through 171 on Shirley (now University) Avenue, and even-numbered Lots 102 through 112 on Bonn Street; TOGETHER WITH all of vacated St. Clair Avenue right-of-way lying south of Burgess (now Taft) Avenue, all of Shirley (now University) Avenue right-of-way lying west of the west line of Bonn Avenue, all of Burgess (now Taft) Avenue right-of-way lying east of the east line of St. Clair Avenue, and all of Everett Avenue right-of-way, all as platted in University Place Addition to Wichita, Sedgwick County, Kansas; EXCEPT those parts lying south of the north line of highway right-of-way condemned in Cases A-52532 and A56857.

All public easements and dedications being vacated by virtue of K.S.A. 12-512(b).

Ruggles & Bohm, P.A.

Land Surveyor
Thomas C. Ruggles

Know all men by these presents that we, the undersigned, have caused the land described in the surveyor's certificate to be platted into Lots, a Street and Reserves, to be known as "FRIENDS UNIVERSITY 3RD ADDITION", Wichita, Sedgwick County, Kansas. The Street is hereby dedicated to and for the use of the public. The sidewalk easement is hereby granted for construction and maintenance of public sidewalks. The utility easements are hereby granted as indicated for the construction and maintenance of all public utilities. The drainage easement is hereby granted as indicated for the construction and maintenance of a storm sewer system. A drainage plan for the plat is on file in the office of the City Engineer. All drainage easements and reserves shall remain at established grades, or as modified with the approval of the City Engineer, and unobstructed to allow for the conveyance of storm water. Reserve "A" is to be owned and maintained by the owners of adjacent lots, and is to be used for open space, pedestrian ways, emergency access, drainage, and as a utility easement. Reserve "B" is to be owned and maintained by the owners of Lot 1, and is to be used for open space, drainage, gazebo, fountains, lighting, public sidewalk, and private sanitary sewer.

Friends University, a Kansas non-profit Corporation

Randall C. Doerksen, Vice President

State of Kansas)
Sedgwick County) SS

The foregoing instrument acknowledged before me, this _____ day of _____, 2003, by Randall C. Doerksen, Vice President, on behalf of the Corporation.

Notary Public
Mildred E. Franz

My appointment expires _____

This plat of "FRIENDS UNIVERSITY 3RD ADDITION", Wichita, Sedgwick County, Kansas, has been submitted to and approved by the Wichita-Sedgwick County Metropolitan Area Planning Commission, Wichita, Kansas. Dated this _____ day of _____, 2003.

Wichita-Sedgwick County Metropolitan Area Planning Commission

Chairman
Bernard A. Hentzen
Secretary
Dale Miller

This plat approved and all dedications shown hereon accepted by the City Council of the City of Wichita, Kansas, this _____ day of _____, 2003.

At the direction of the City Council

City Manager
Chris Cherches
City Clerk
Pat Graves

Reviewed in accordance with K.S.A. 58-2005 on this _____ day of _____, 2003.

Deputy County Surveyor
Sedgwick County Kansas
Tricia L. Robello, LS #1246

Entered on transfer record this _____ day of _____, 2003.

County Clerk
Don Brace

State of Kansas)
Sedgwick County) SS

This is to certify that this plat has been filed for record in the office of the Register of Deeds, this _____ day of _____, 2003, at _____ o'clock _____ M., and is duly recorded.

Register of Deeds
Bill Meek

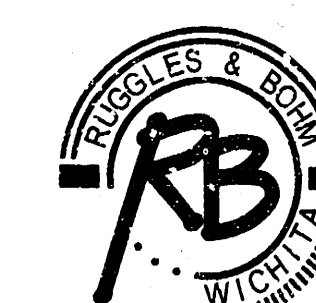
Deputy
Linda Kizzire

We, the undersigned, holders of a mortgage on the above described property, do hereby consent to this plat of "FRIENDS UNIVERSITY 3RD ADDITION", Wichita, Sedgwick County, Kansas, this _____ day of _____, 2003.

Bank of America

We, the undersigned, holders of a mortgage on the above described property, do hereby consent to this plat of "FRIENDS UNIVERSITY 3RD ADDITION", Wichita, Sedgwick County, Kansas, this _____ day of _____, 2003.

Commerce Bank, N.A.



Ruggles & Bohm, P.A.
Engineering, Surveying, Land Planning
924 North Main (316) 264-8008
Wichita, Kansas 67203 (316) 264-4621 fax
www.rbkansas.com E-mail: info@rbkansas.com

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