

APPROVED AS NOTED
BY CITY ENGINEER OF WICHITA

STORM SEWERS VRH 4/8/05

NOTE TO CONTRACTOR

INSPECTION AND TESTING FOR THIS PROJECT IS TO BE PROVIDED BY A LICENSED CONSULTING ENGINEERING FIRM UNDER CONTRACT WITH THE OWNER / DEVELOPER. SUCH INSPECTION IS TO BE IN ACCORDANCE WITH THE CITY OF NICHUA STANDARD CONSTRUCTION ENGINEERING PRACTICES AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. NO WORK SHALL BE PERFORMED IN DEDICATED EASEMENTS OF THE PUBLIC RIGHT-OF-WAY BY THE CONTRACTOR WITHOUT SUCH INSPECTION NOR SHALL ANY WORK BE COMMENCED IN DEDICATED EASEMENTS OR PUBLIC RIGHT-OF-WAY WITHOUT WRITTEN AUTHORIZATION BY THE CITY ENGINEER.

GENERAL NOTES:

1. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A MINIMUM ADVANCE NOTICE OF FOURTY-EIGHT (48) HOURS TO UTILITY COMPANIES PRIOR TO STARTING ANY EXCAVATION AS FOLLOWS:

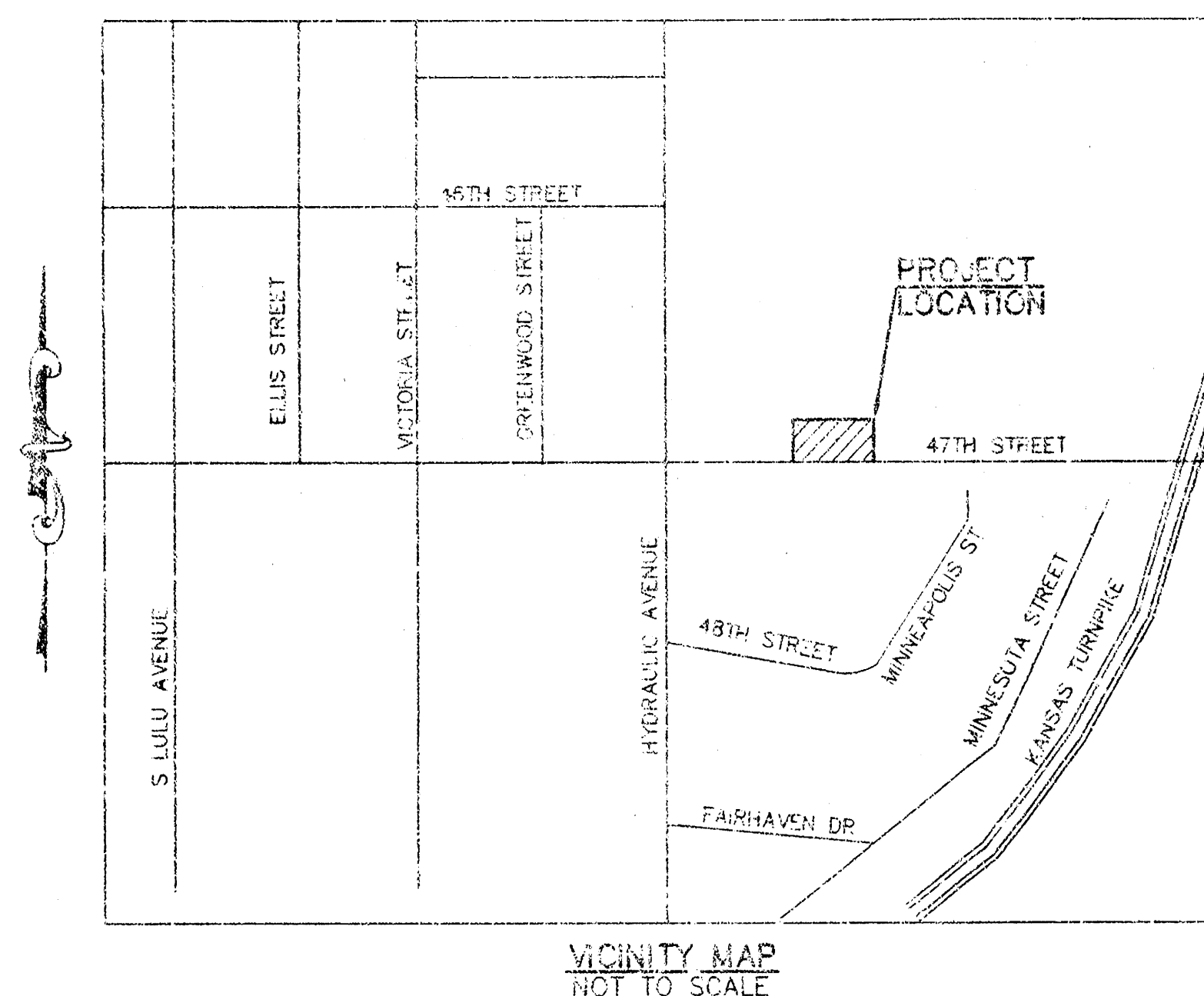
KANSAS ONE-CALL 1-800-344-7233

KANSAS GAS SERVICE	1-316-832-3177
WESTAR ENERGY	1-316-261-6320
SOUTHWESTERN BELL TELEPHONE COMPANY	1-316-268-2222
CITY OF WICHITA WATER DEPARTMENT	1-316-268-4555
CITY OF WICHITA SEWER MAINTENANCE	1-316-268-4501

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS. THE CONTRACTOR SHALL BE REQUIRED TO RE-ESTABLISH ANY PROPERTY IRONS WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE RE-ESTABLISHED BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS.
3. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. LOCATION INFORMATION HAS BEEN OBTAINED FROM THE VARIOUS COMPANIES AND IS EITHER FROM COMPANY UTILITY DRAWINGS OR COMPANY PROVIDED FIELD LOCATIONS. THE PLAN LOCATIONS SHOWN ARE NOT GUARANTEED. ADDITIONAL EXISTING UTILITIES MAY ALSO BE ENCOUNTERED.
4. RUBBLE FROM THE REMOVAL OF MISCELLANEOUS STRUCTURES AND EXCESS EXCAVATION WHICH IS TO BE WASTED SHALL BE DISPOSED OF ON SITES TO BE PROVIDED BY THE CONTRACTOR. THESE SITES SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY, APPEARANCE AND SITE LOCATION. LOCATIONS THAT, IN THE OPINION OF THE ENGINEER, WILL LEAVE AN UNSUITABLE APPEARANCE WITHOUT THE APPROVAL OF ALL DISPOSAL SITES MUST BE APPROVED BY THE KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT. MATERIAL EITHER STOCKPILED OR DISPOSED OF IN A FLOOD PLAIN WOULD REQUIRE A KANSAS STATE BOARD OF AGRICULTURE PERMIT. ANY MATERIAL DUMPED IN WATERS OF THE UNITED STATES OR WETLANDS IS SUBJECT TO U.S. CORPS OF ENGINEERS PERMITTING REGULATIONS. ANY MATERIAL BURIED OR STOCKPILED BEYOND THE STOCKPILE LIMIT WOULD REQUIRE ADDITIONAL REGULATORY INVESTIGATIONS UNLESS BURIED IN A PREVIOUSLY APPROVED BORROW LOCATION.
5. UNLESS SHOWN OR STATED OTHERWISE ON THESE DRAWINGS, MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF WICHITA SPECIFICATIONS.
6. SITE RESTORATION AND PREPARATION SHALL BE SUBSIDIARY TO THE PROJECT.

CONTACT PERSON:

SAMUEL D. MALINOWSKY, P.E., KAW VALLEY ENGINEERING, INC. 785-762-5040



VICINITY MAP
NOT TO SCALE

INDEX TO SHEETS:

1. TITLE SHEET
2. STORM SEWER PLAN AND PROFILE
3. C.O.W. TYPE A INLET DETAIL

UTILITY STATEMENT:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN CORRESPOND TO SUCH UTILITIES IN THE AREA EITHER IN SEVERITY OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE, THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, FIELD SURVEYS. THE CONTRACTOR SPECIFICALLY STATED THAT HE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION OR ERECTION OF STRUCTURES AT LOCATIONS SHOWN ON THESE PLANS. THE CONTRACTOR SPECIFICALLY STATED THAT HE WILL BE RESPONSIBLE FOR THE RELOCATION OF ANY EXISTING UTILITIES WHICH CONFLICT WITH PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SPECIFICALLY STATED THAT HE WILL BE RESPONSIBLE FOR CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

WARRANTY / DISCLAIMER

THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES FOR CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND INTENDED BY THE OWNER AT ANY ONE TIME. HOWEVER, NEITHER KAW VALLEY ENGINEERING, INC NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE KAW VALLEY ENGINEERING PERSONNEL INSPECT AND CONTROL THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.

BENCHMARK:

BM-1: CHISELED SQUARE ON THE NORTHWEST CORNER OF TRAFFIC LIGHT POLE BASE
LOCATED AT THE SOUTHEAST QUADRANT OF HYDRAULIC STREET & 47TH STREET (AS
OBTAINED FROM JASON SUKSA, CITY SURVEYOR). ELEV=1272.39

TBM-1: NORTHEAST CORNER OF CURB INLET LOCATED ON THE NORTH SIDE OF 47TH STREET AND APPROXIMATELY 84 FEET EAST AND 17 FEET SOUTH OF THE SOUTHWEST CORNER OF THE SUBJECT PROPERTY. ELEV=1269.90

THIS DRAWING SHALL NOT BE UTILIZED BY ANY PERSON, FIRM, OR CORPORATION IN WHOLE OR IN PART WITHOUT THE SPECIFIC PERMISSION OF KAW VALLEY ENGINEERING, INC.

Jennifer O'Neil: 04-1745102516-KC@CN.A-1745D15.GW, 729-285-2272-24 (H), Pendergast

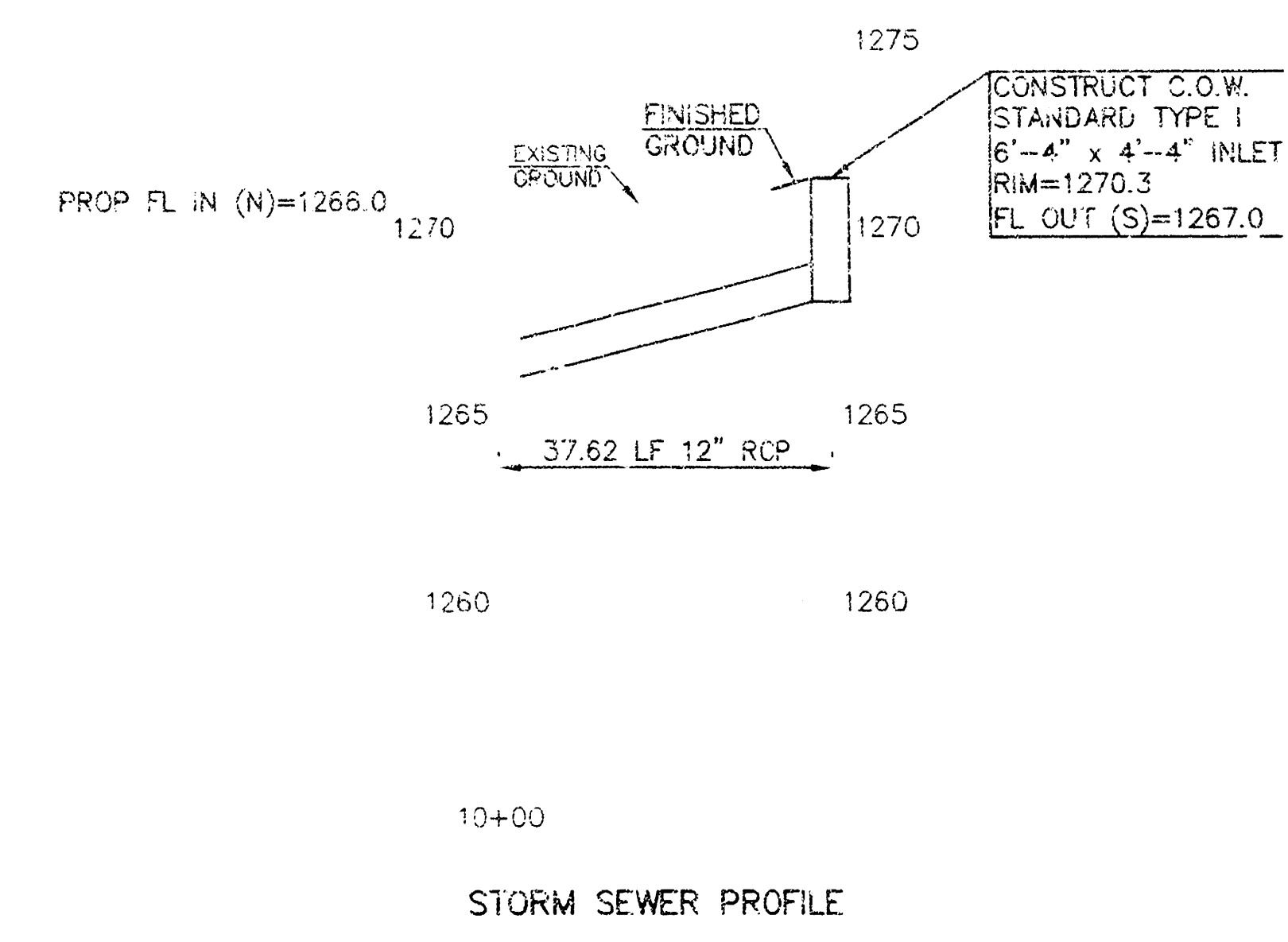
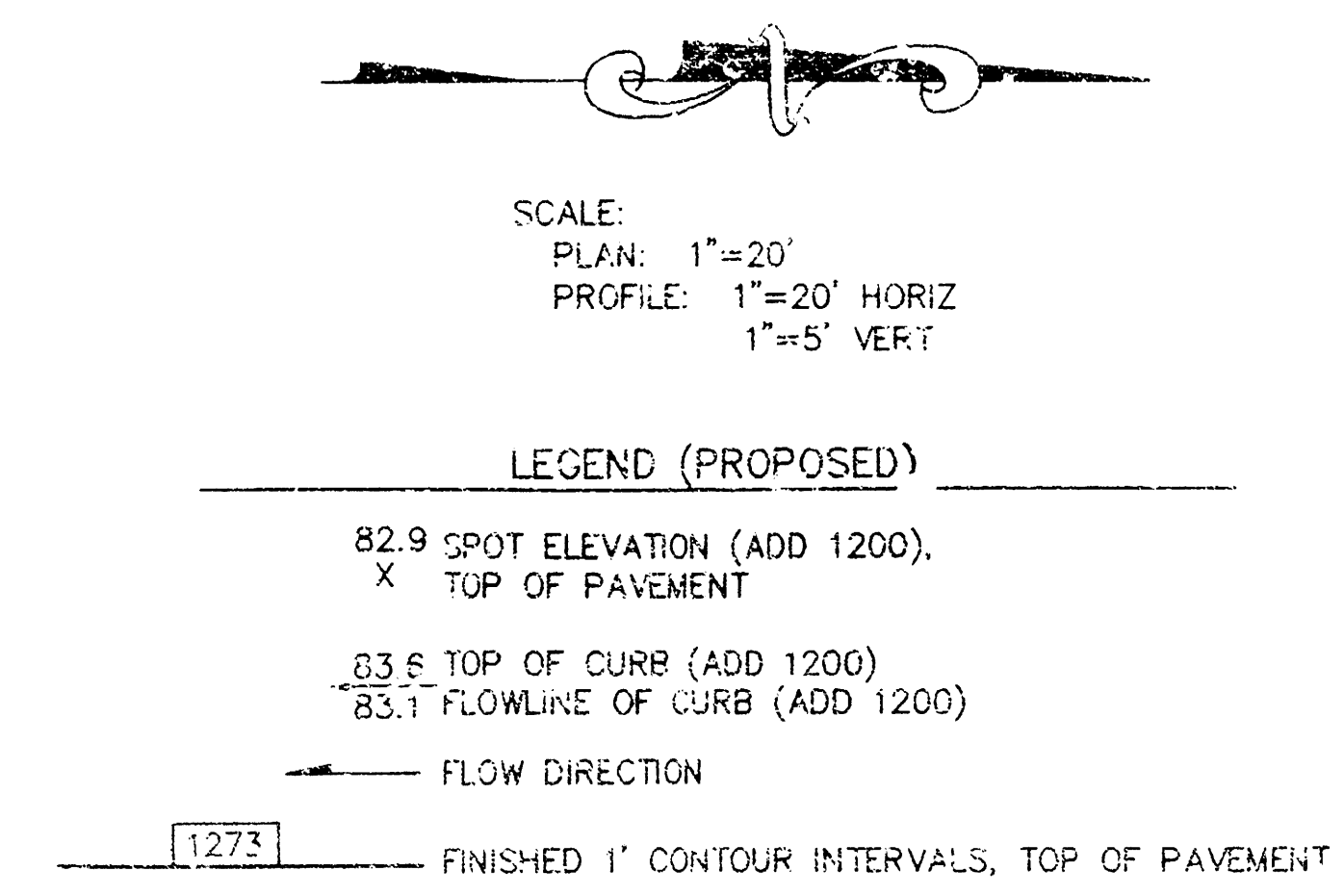
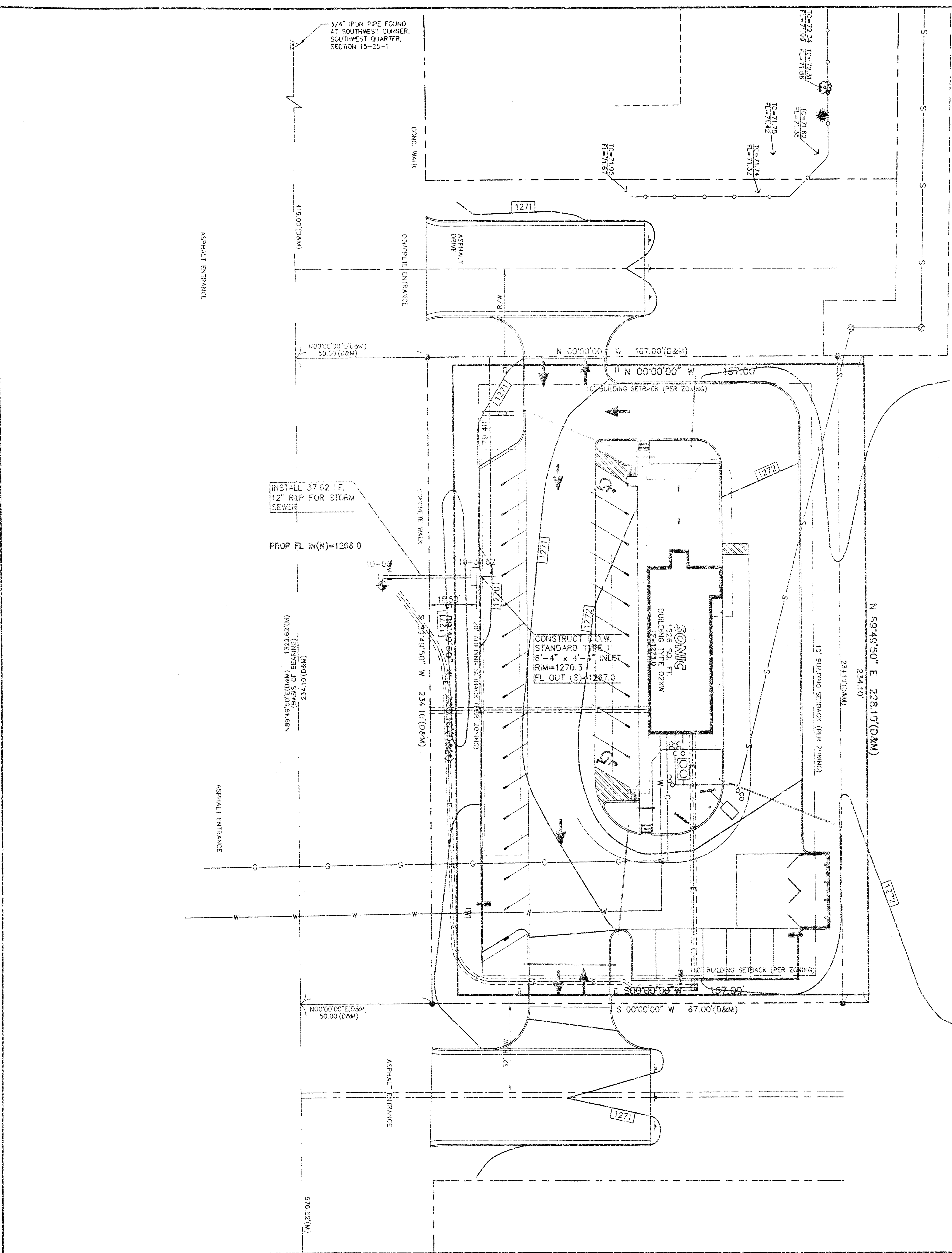


SONIC DRIVE-IN
47TH STREET & KANSAS STREET
WICHITA, KANSAS

TITLE SHEET

PRG. NO.		A04-1745	
DATE		NOV 2004	
DESIGNER		SDM	
DRAWN BY		JL	
CFN		REV	
1745DTS			
SHEET		1	
OF 3			

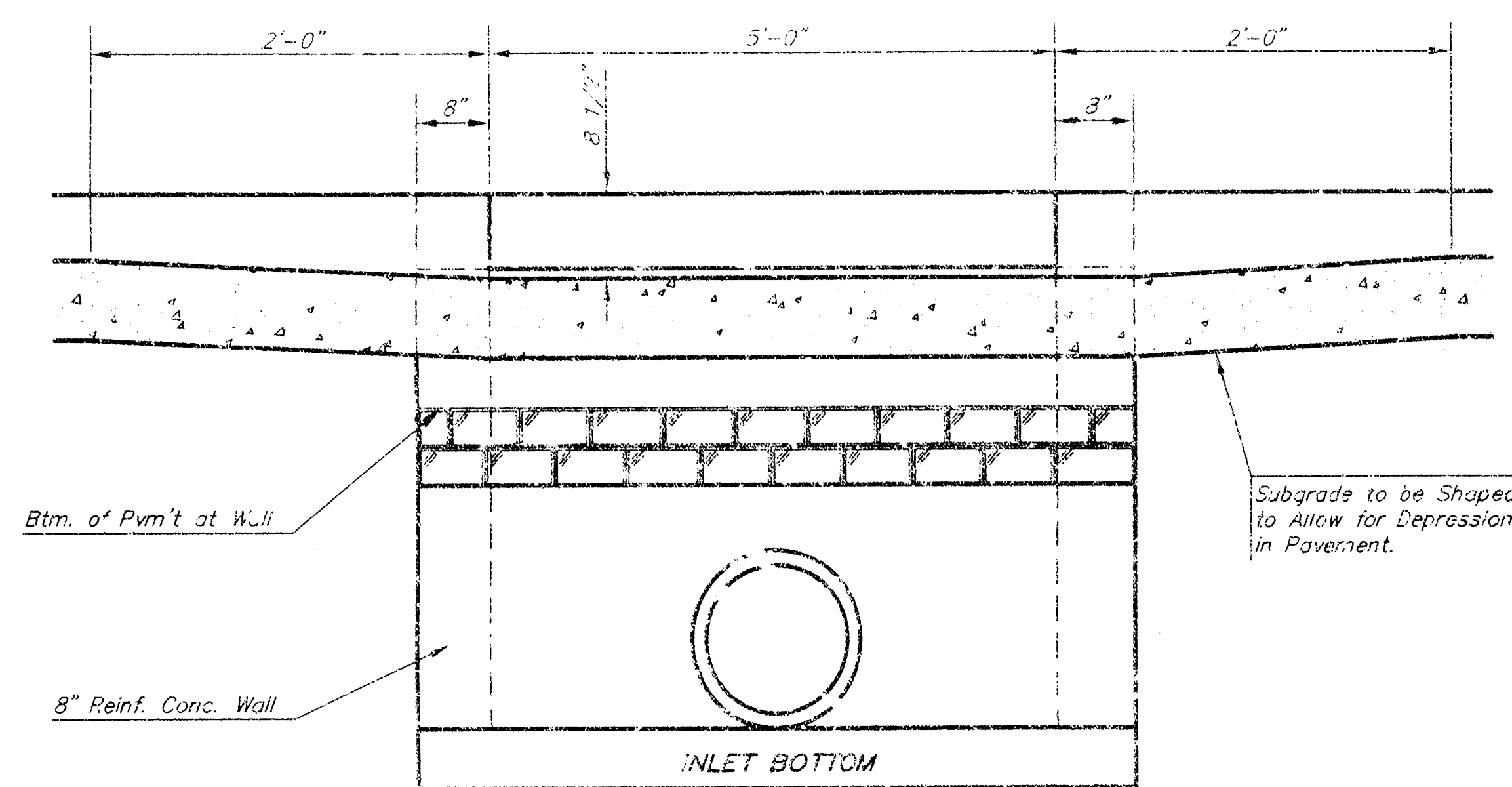
\\server\Drawings\1745\SONIC DRIVE\1745.dwg, 3/27/2004 1:25:22 PM, JASON SUKSA



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OF THE SUBJECT PROPERTY. ELEV=1269.90

2319 NORTH JACKSON P.O. BOX 1304 JUNCTION CITY, KANSAS 66441 785-762-5040 Fax: 785-762-7744 E-MAIL: kva@kvaeng.com WEB SITE: www.kvaeng.com		K&V VALLEY ENGINEERING, INC. - CONSULTING ENGINEERS Gillespie, Junction City, Mo., Kansas City, Mo., Leavenworth, Mo.	
SONIC DRIVE-IN 47TH STREET & KANSAS STREET WICHITA, KANSAS		STORM SEWER PLAN & PROFILE	
PROJ. NO.	A04_1745	DATE	NOV. 2004
DESIGNER	SDM	DRAWN BY	JL
CN	SDM	REV	1
SHEET	2 OF 3	DATE	NOV. 2004
DATE	NOV. 2004	DESCRIPTION	DSN DWN CHK

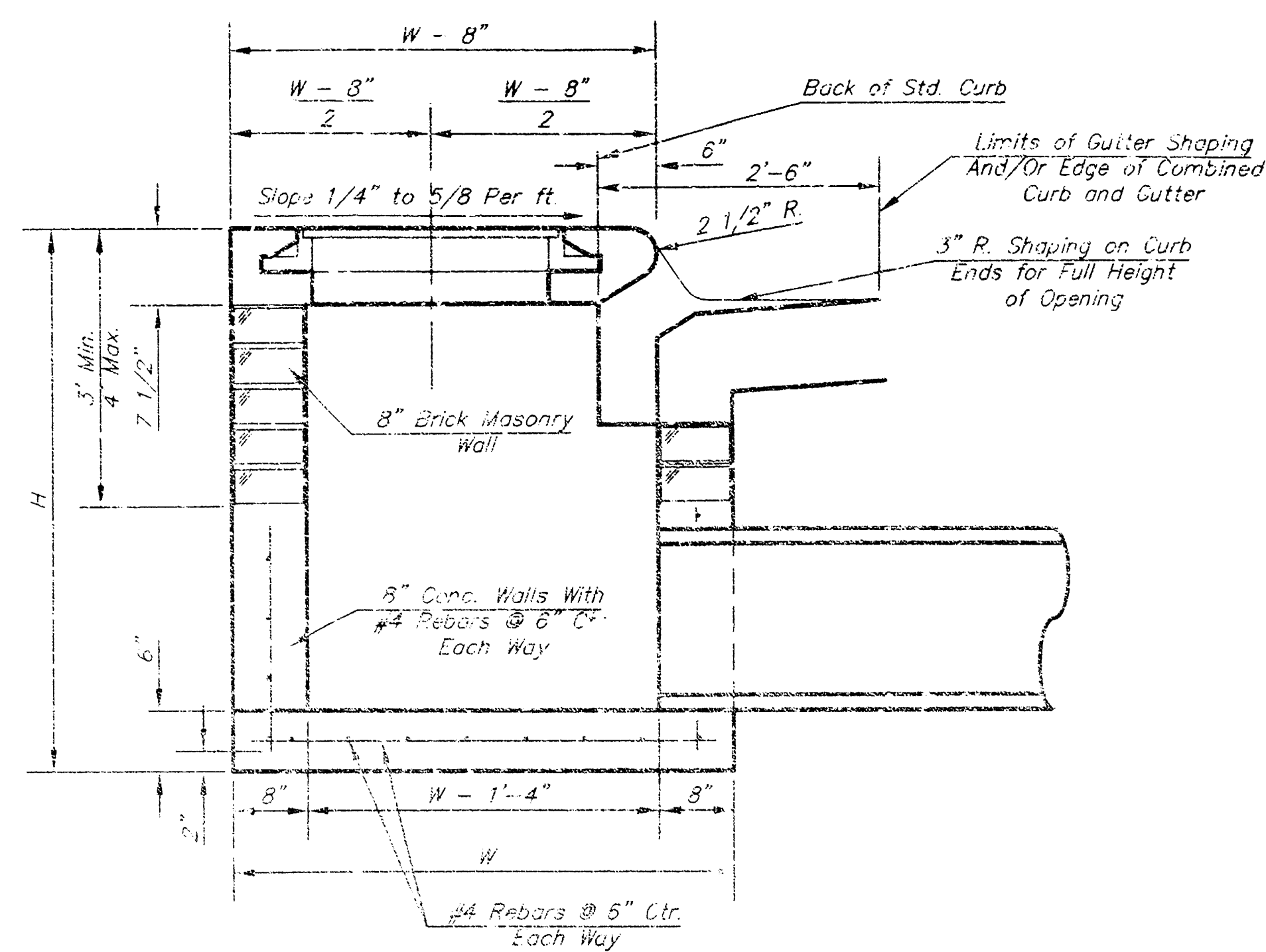
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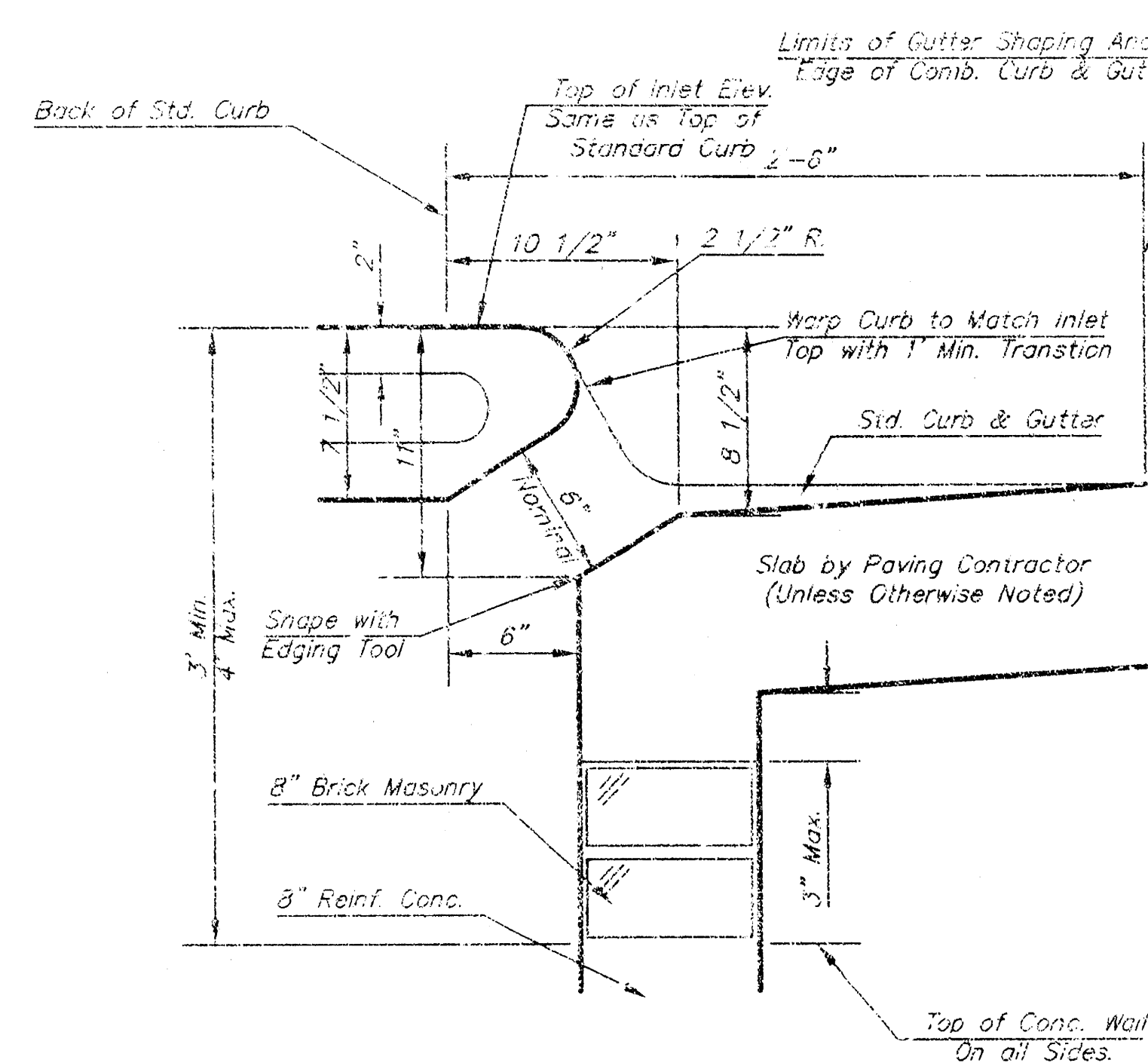
SECTION C-C

Note: a₇ Bars to be Placed Approx. 2" Below Top of Inlet Cover.

STANDARD CURB INLET PRECAST TOPS			
W	PRE-CAST TOP SIZE	HIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" 5'-4" 7' 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" 6'-4" 7' 1/2"	24" & 30"	0.51±
6'-4"	5'-8" 6'-4" 7' 1/2"	36" & 42"	0.84±
7'-4"	6'-8" 6'-4" 7' 1/2"	48" & 54"	0.77±
8'-4"	7'-8" 6'-4" 7' 1/2"	60" & 66"	0.90±

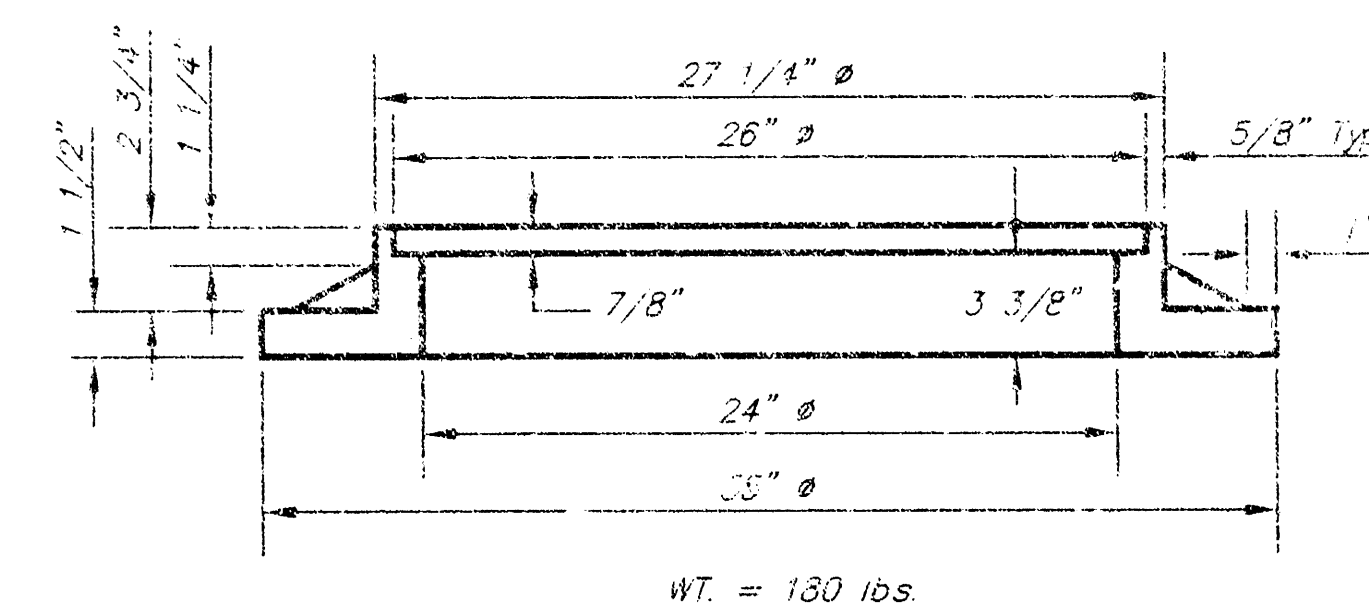
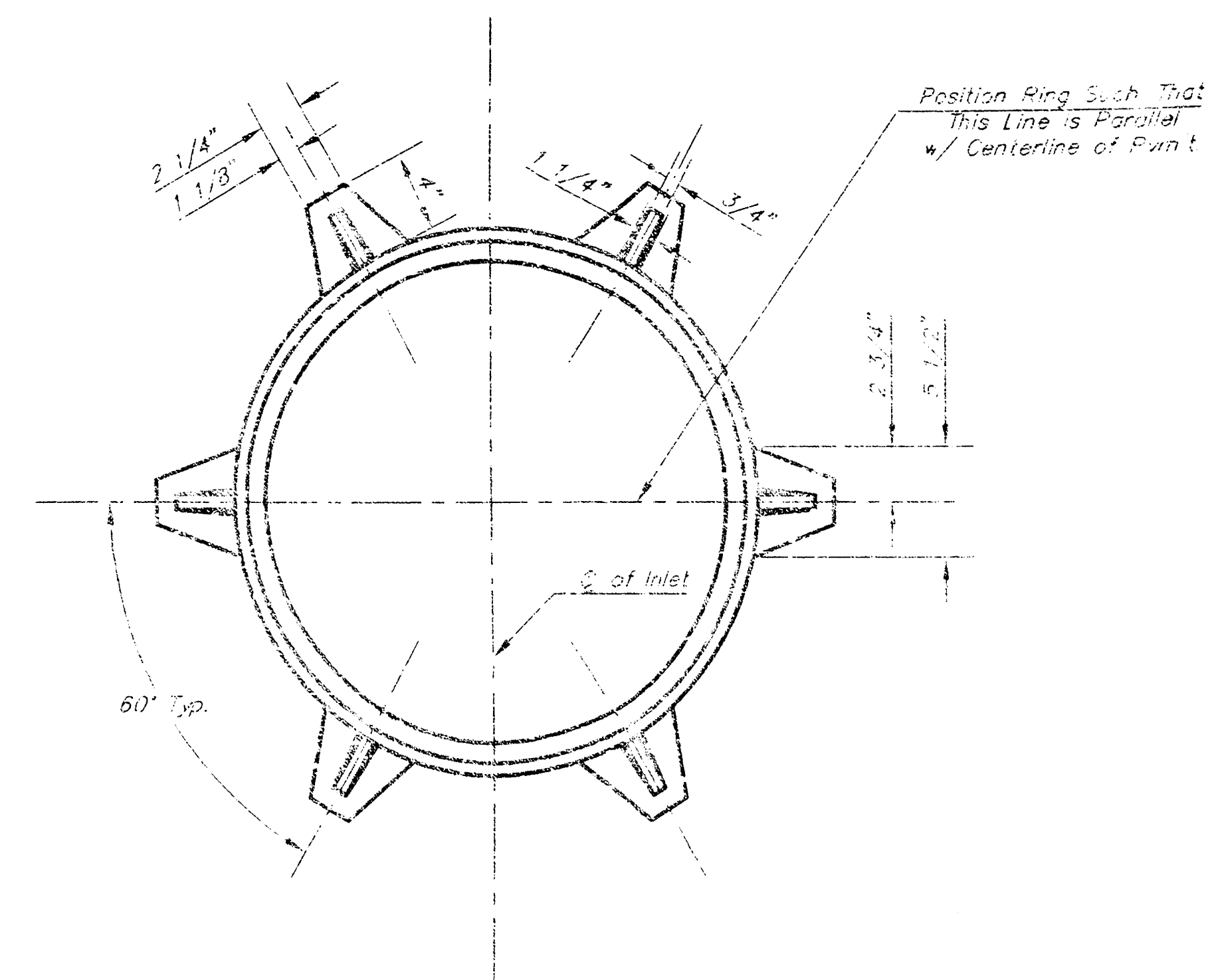


SECTION A-A



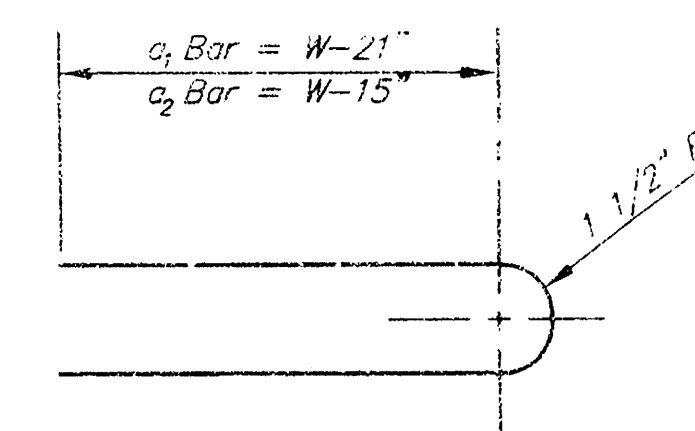
SECTION B-B

1. Concrete tops to be installed on thin mortar cushion to insure full support along brick walls. Concrete tops may be cast in place or precast. Concrete used for inlet construction shall be concrete pavement mix.
2. Contractor shall have the option of constructing 8" brick masonry walls between the concrete inlet base and top on this inlet when $W=6'-4"$ and $H=7'-0"$ or less.
3. Inlet invert shall be shaped with 8 sack sand mix concrete to create flow channels and to increase hydraulic efficiency such that the inlet will be self cleaning between all inlet and/or outlet pipes.
4. The ends of all pipes installed in inlets shall be cut off flush with the inside face of the inlet wall.



MANHOLE RING AND COVER

*See City of Wichita Standard Manhole Ring and Cover Detail Sheet for Cover Details to Be Used With Inlet Frame.



BENDING DIAGRAM

