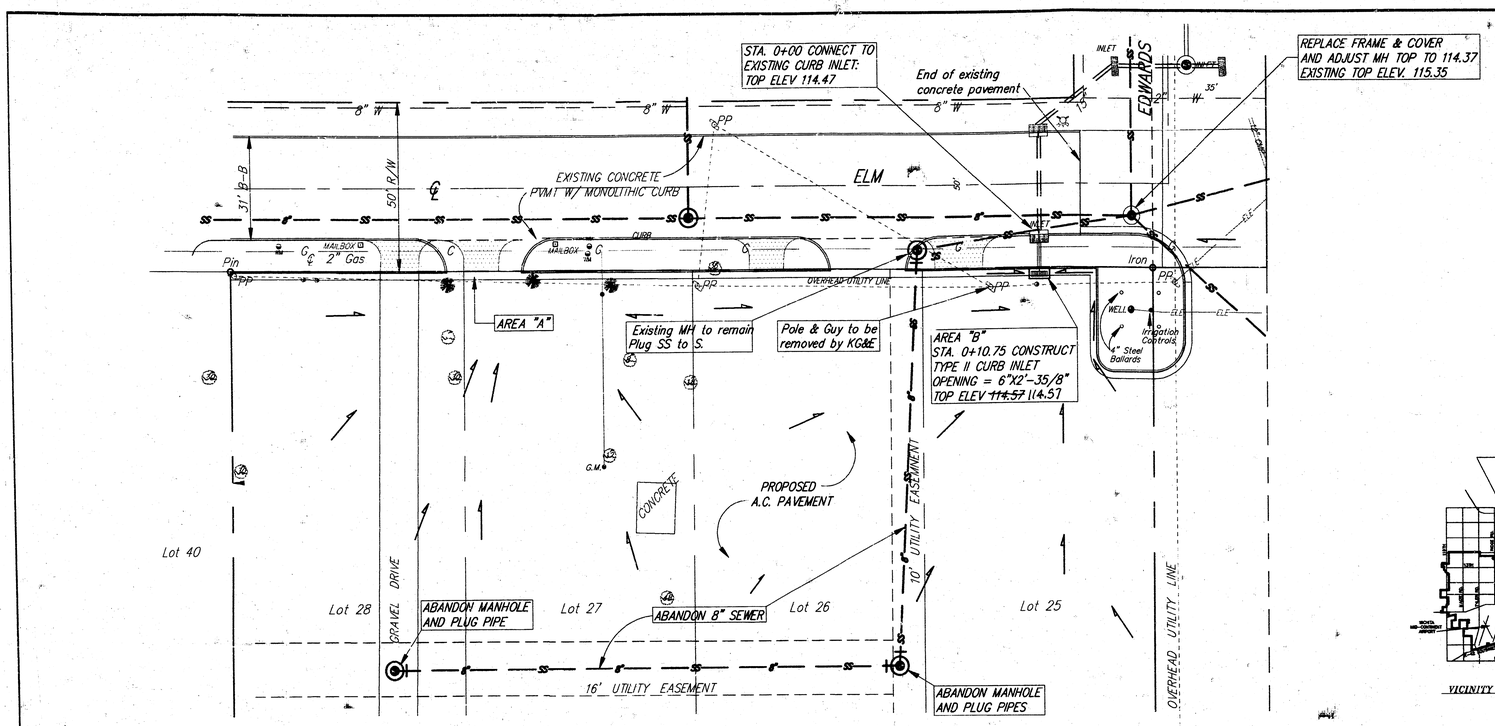
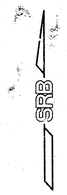
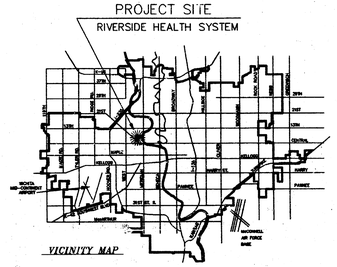




1" = 20' PLAN
1" = 5' PROFILE



GENERAL NOTES

1. All work on this project shall be done in accordance with City of Wichita Standard Specifications for Construction of Sanitary Sewer and Storm Sewers, and the City of Wichita "Procedure for Construction of Public Works Improvements by Private Contract."
2. Contractor shall provide notice to utility companies a minimum of 48 hours prior to any excavation, through Kansas One-Call, 687-2470.
3. All areas within street right of way which are disturbed by Contractor's operations shall be restored in accordance with City of Wichita Administrative Regulations AR-78.
4. Manhole frames and covers removed shall be returned by the Contractor to the Sewer Maintenance Dept. of the City of Wichita.

APPROVED AS NOTED BY CITY ENGINEER OF WICHITA

Sanitary Sewers VRH 4/21/95

Storm Sewers VRH 4/21/95

Driveway Approaches _____

Water Mains _____

Paving _____

NOTE TO CONTRACTORS

Inspection and testing for this project are to be provided by a Licensed Consulting Engineering Firm under contract with the Owner/Developer. Said inspection 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.

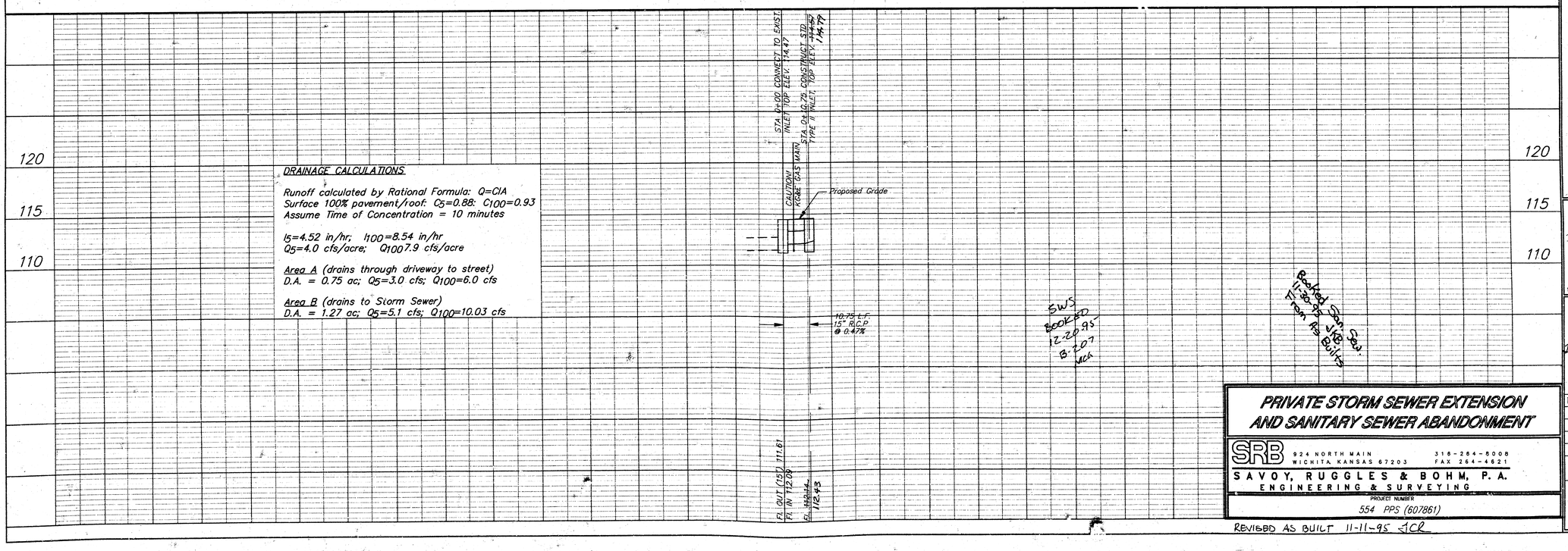
DRAINAGE CALCULATIONS

Runoff calculated by Rational Formula: Q=CIA
Surface 100% pavement/roof: C_5=0.88: C_{100}=0.93
Assume Time of Concentration = 10 minutes

I_5=4.52 in/hr; I_{100}=8.54 in/hr
Q_5=4.0 cfs/acre; Q_{100} 7.9 cfs/acre

Area A (drains through driveway to street)
D.A. = 0.75 ac; Q_5=3.0 cfs; Q_{100}=6.0 cfs

Area B (drains to Storm Sewer)
D.A. = 1.27 ac; Q_5=5.1 cfs; Q_{100}=10.03 cfs



Power Plant - Addition & Site Improvements
Riverside Health Systems
WICHITA, KANSAS

924 North Main
Wichita, Kansas 67214

LICENSED PROFESSIONAL ENGINEER
9831
KANSAS

DATE
APRIL 20, 1995

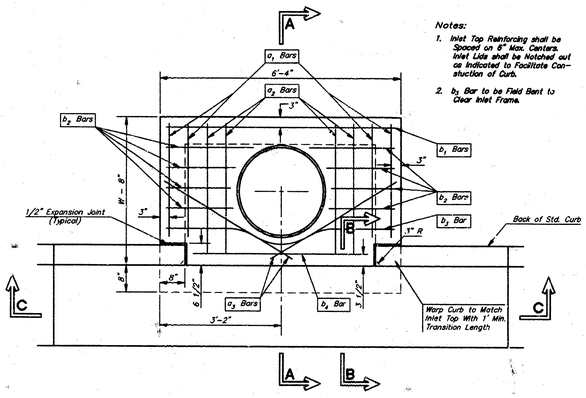
TITLE
SWS PROFILE

SHEET NO.
SG-3

PRIVATE STORM SEWER EXTENSION AND SANITARY SEWER ABANDONMENT

SRB 924 NORTH MAIN WICHITA KANSAS 67203 316-264-8008 FAX 264-4621
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

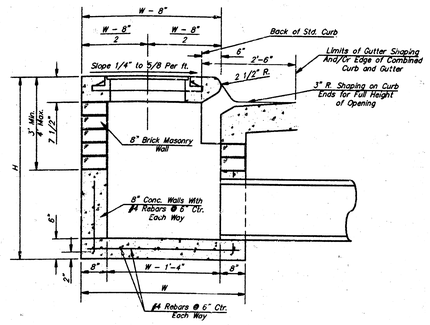
PROJECT NUMBER
554 PPS (607861)



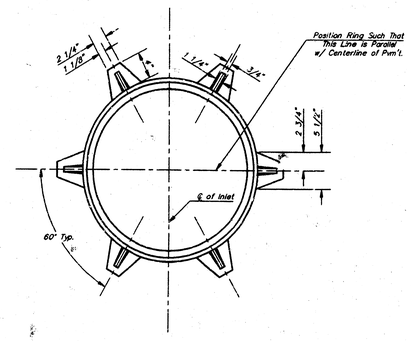
PLAN

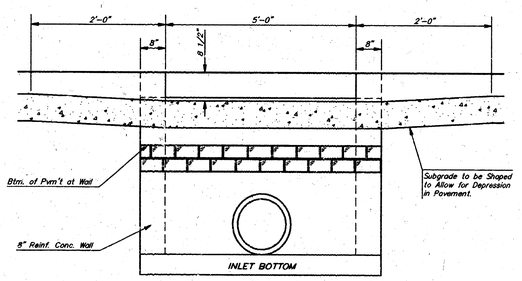
Notes:

1. Inlet Top Reinforcing shall be Spaced on 6" Max. Centers. Inlet Lids shall be Notched out as Indicated to Facilitate Construction of Curb.
2. b_2 Bar to be Field Bent to Clear Inlet Frame.

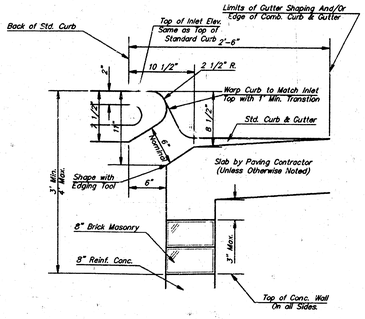


SECTION A–A

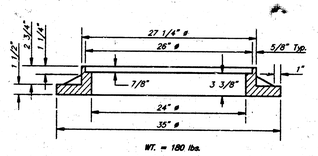




SECTION C–C



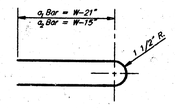
SECTION B–B



Wt. = 180 lbs.

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

STEEL SCHEDULE

BAR		a_1	a_2	a_3	b_1 W=4'-4"	b_1 W=5'-4"	b_1 W=6'-4"	b_1 W=7'-4"	b_1 W=8'-4"	b_2	b_3	b_4	Wt. Lbs.
NUMBER		4	4	2	1	3	5	7	9	6	1	1	
SIZE		#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
LENGTH	W=4'-4"	5'-7"	6'-7"	4'-0"	6'-1"	–	–	–	–	1'-9"	6'-2"	4'-8"	60±
	W=5'-4"	7'-7"	8'-7"	5'-0"	–	6'-1"	–	–	–	1'-9"	6'-2"	4'-8"	81±
	W=6'-4"	9'-7"	10'-7"	6'-0"	–	–	6'-1"	–	–	1'-9"	6'-2"	4'-8"	101±
	W=7'-4"	11'-7"	12'-7"	7'-0"	–	–	–	6'-1"	–	1'-9"	6'-2"	4'-8"	121±
	W=8'-4"	13'-7"	14'-7"	8'-0"	–	–	–	–	6'-1"	1'-9"	6'-2"	4'-8"	141±

Note: a_3 Bars to be Placed Approx. 2" Below Top of Inlet Cover.

STANDARD CURB INLET PRECAST TOPS

W	PRE-CAST TOP SIZE	PIPE SIZE	CU. YD. CONC.
4'-4"	3'-8" 6'-4" T 1/2"	21" & SMALLER	0.38±
5'-4"	4'-8" 6'-4" T 1/2"	24" & 30"	0.51±
6'-4"	5'-8" 6'-4" T 1/2"	36" & 42"	0.64±
7'-4"	6'-8" 6'-4" T 1/2"	48" & 54"	0.77±
8'-4"	7'-8" 6'-4" T 1/2"	60" & 66"	0.90±

GENERAL NOTES

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.

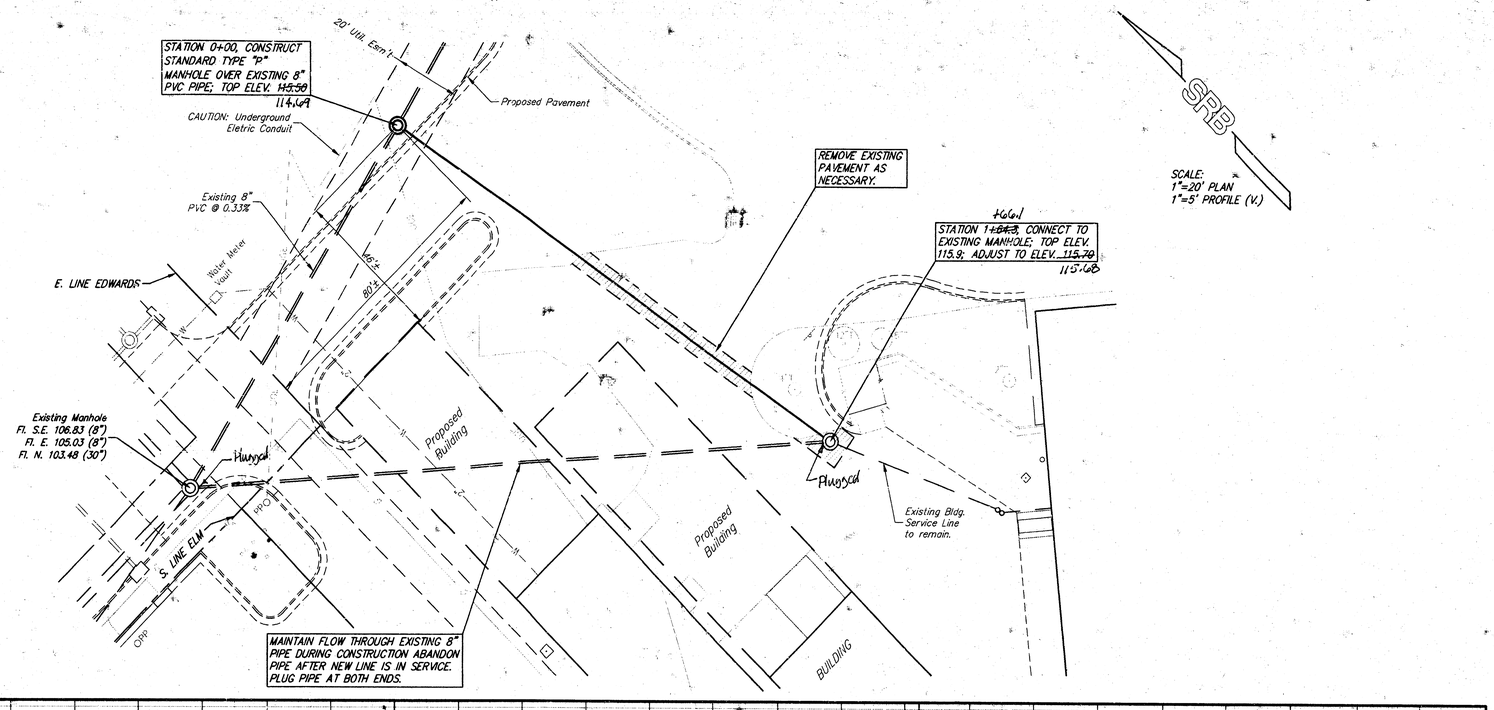
Power Plant Addition & Site Improvements
Riverside Health Systems
WICHITA, KANSAS

1024 E. 1st Wichita, Kansas 67214

DATE
MARCH 29, 1995

TITLE TYPE 1
INLET DETAILS

SHEET NO.
SG-4



Power Plant Addition & Site Improvements
Riverside Health Systems
WICHITA, KANSAS

1024 E 1st Wichita, Kansas 67214

DATE
MAY 26, 1995

TITLE
SAN. SEWER PLAN

SHEET NO.
SG-5

SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-264-8008 FAX 264-4621
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

Project No: 554 PPS (607881)

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