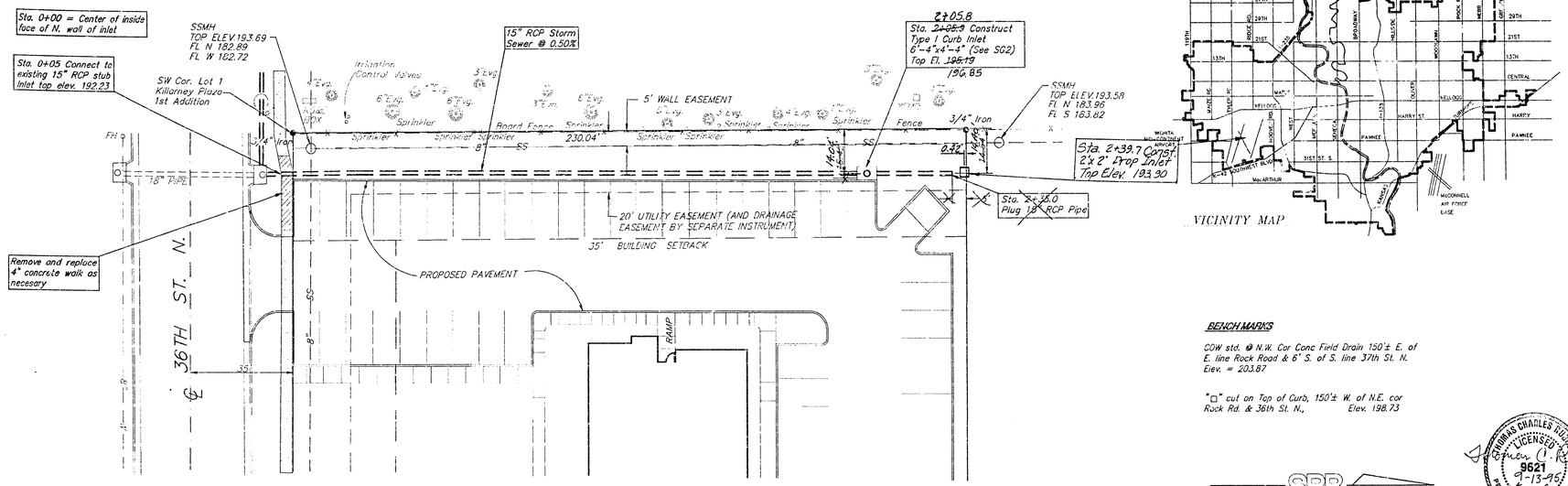


GENERAL NOTES

1. All work on this project shall conform to the Standard Specifications for Storm Sewer Construction of the City of Wichita.
2. All unpaved areas within public right-of-way which may be disturbed by Contractor's operations shall be restored in accordance with City of Wichita Administrative Regulation AR-70.
3. The Contractor shall notify Kansas One-Call (687-2470) a minimum of 24 hours prior to any excavation.

583 PPS
729 PPS
MICROFILM

BENCH MARKS

COW std. @ N.W. Cor Conc Field Drain 150'± E. of E. line Rock Road & 6' S. of S. line 37th St. N. Elev. = 203.87

"□" cut on Top of Curb, 150'± W. of N.E. cor Rock Rd. & 36th St. N., Elev. 198.73

SRB

1" = 20'

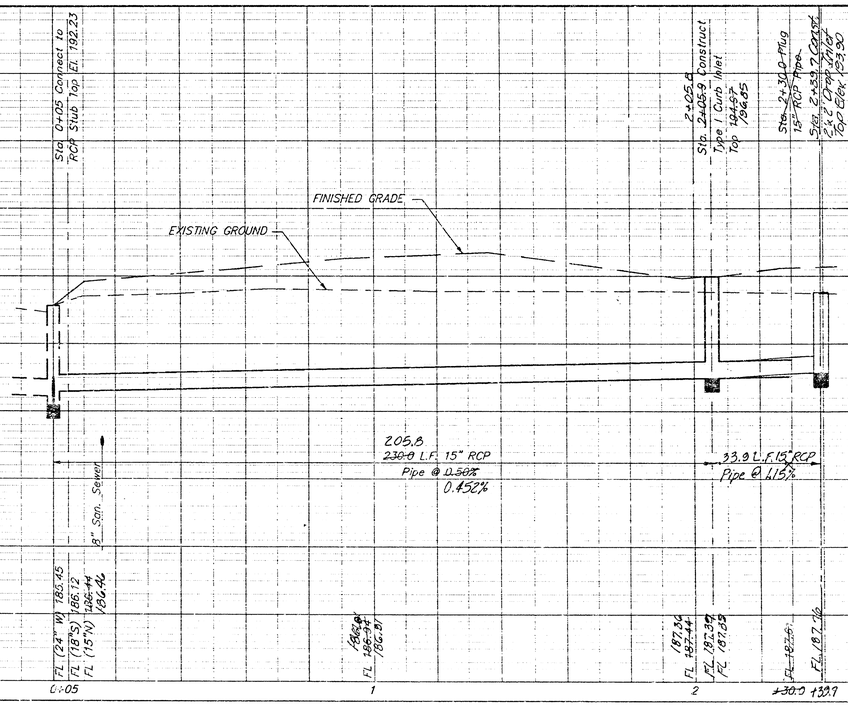
THOMAS CHARLES RUGGLES LICENSED PROFESSIONAL ENGINEER 9621 9-13-95 KANSAS

APPROVED AS NOTED BY CITY ENGINEER OF WICHITA

Sanitary Sewers _____
Storm Sewers VRH 9/19/95
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.



REVISED - AS BUILT 1-13-97

PRIVATE STORM SEWER ROCK ROAD SUITES
LOT 1, KILLARNEY PLAZA 1ST ADD.

SRB 924 NORTH MAIN WICHITA, KANSAS 67203 316-264-8000 FAX 264-4621
SAVOY, RUGGLES & BOHM, P.A.
ENGINEERING & SURVEYING

PROJECT NUMBER 583 PPS (60/861)

DRAWN	DESIGN	REVIEW	DATE	UTILITY	SRB JOB
RLA	TCR		9-12-95	TCR	243E

REVISED

DRAWING NO. 2423.1PP1

1 of 3

SG 2
243E

Construct Concrete Pavement w/6" Monolithic Curb (Typical)

Constr. 3'x3' Drop Inlet
End 15" SWS
Fl. 187.66

TOP ELEV. 193.58
FL N 183.96
Fl S 183.82

Found 3/4" Iron

Construct Type I Curb Inlet 6'-4"x4'-4"
Top El. 195.19
(See Sheet 1)

15" RCP Storm Sewer @ 0.50%
(See Sheet 1)

LOT 1

N 89°17'01" E 459.76' M
N 89°18'12" E 460.01' P

Set 1/2" Rebar w/ SRB Cap

N 89°18'12" E 150' P

LOT 3

W. LINE ROCK ROAD

S 01°05'20" E 235.00' F
S 01°05'20" E 236.00' M

RUNOFF CALCULATIONS

By Rational Formula: Q=CIA
Impervious Area = 55415 S.F.
Pervious Area = 4000 S.F.
D.A. (to Storm Sewer Inlet) = 1.36 Ac.
C impervious = 0.95
C pervious = 0.65
C weighted = 0.93
Assume time of concentration = 15 min.
I5 = 4.56 in/hr. I100 = 7.37 in/hr.
Q5 = 5.8 cfs Q100 = 9.3 cfs

A

BUILDING
F.F. 199.72

B

ELEV 199.72 POOL

C

2' Wide Flume Through Walk and Curb

35' BUILDING SETBACK

20' UTILITY EASEMENT

5' WALL EASEMENT

20' UTILITY & DRAINAGE ESMT.

35' BUILDING SETBACK

RAMP

5% TYP.

E. Line Hotel Parcel

N 01°05'20" W 230.00' P
N 01°05'12" W 230.04' M

S 89°18'12" W 460.01' P
S 89°18'12" W 460.09' M

TOP ELEV. 193.69
FL N 182.89
FL W 182.72
Found 3/4" Iron

TOP ELEV. 192.23
Fl S 186.12
FL N 186.44
Fl W 185.45

TOP ELEV. 194.34
FL N 189.56
SSMH FL W 189.24
Found V-Notch

INLET

TC 3.05

Areas B and C combined
D.A. to this point = 2.70 ac.
Q5 = 11.5 c.f.s. Q100 = 18.5 c.f.s

Street flow capacity using Manning's Equation: V = 1.486 r2/3 S1/2 / n

n=0.016 S=.0188 S1/2 =0.137
A=4.2 s.f. wp=20.42 r=0.205 r2/3=0.347
V=1.42 f.p.s. Q=18.6 c.f.s.

D.A. = 1.97 ac..

Construct 24' Wide 8" Reinforced Concrete Drive Approach Per City Specs (Typ. 3 Loc.) Remove and Replace walk as necessary.

℄ 36TH STREET NORTH

NORTH

SITE GRADING PLAN

SCALE 1" = 20'-0"

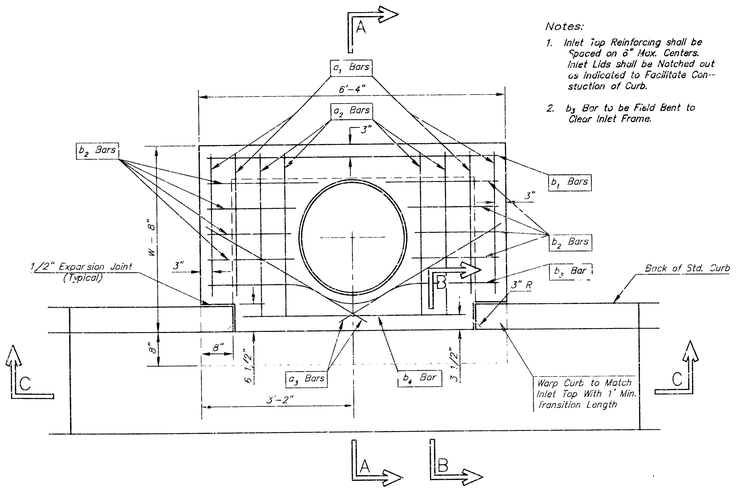
PRIVATE STORM SEWER
ROCK ROAD SUITES
LOT 1, KILLARNEY PLAZA 1ST ADD.

SRB
SAVOY, RUGGLES & BOHM, P. A.
ENGINEERING & SURVEYING

PROJECT NUMBER
583 PPS (507861)

DESIGN	DRAWN	CHECK	REVIEW	DATE	REVISE
TCR	RLA	TCR		9-12-95	

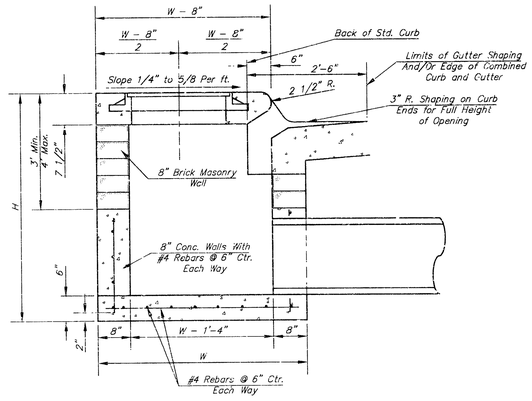
SHEET NO. 2 OF 3 SHEETS



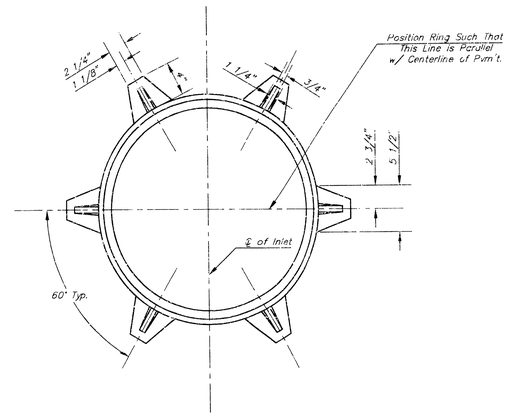
PLAN

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_3 Bar to be Field Bent to Clear Inlet Frame.



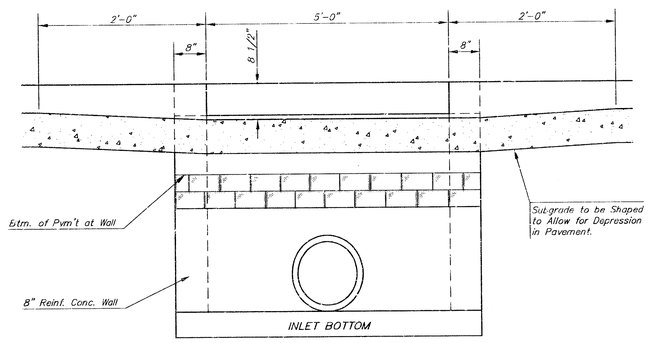
SECTION A–A



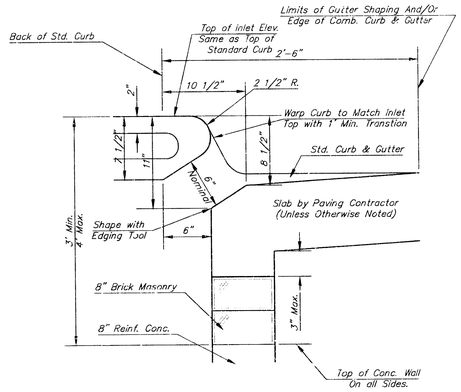
WT. = 180 lbs.

MANHOLE RING AND COVER

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



SECTION C–C



SECTION B–B

STEEL SCHEDULE

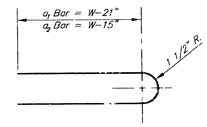
BAR		a_1	a_2	a_3	b_1 W=4'-4"	b_1 W=5'-4"	b_1 W=6'-4"	b_1 W=7'-4"	b_1 W=8'-4"	b_2	b_3	b_4	Wt. Lbs.
NUMBER		4	4	2	1	3	5	7	9	6	1	1	
SIZE		#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#6	
LENGTH	W=4'-4"	5'-7"	6'-7"	4'-0"	6'-1"	–	–	–	–	1'-9"	6'-2"	4'-8"	60±
	W=5'-4"	7'-7"	8'-7"	5'-0"	–	6'-1"	–	–	–	1'-9"	6'-2"	4'-8"	81±
	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_2 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" 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"	0.64±
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±

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=5'-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.



BENDING DIAGRAM

Project No. 583 PPS (607861)

THE CITY OF WICHITA

CITY ENGINEER'S OFFICE
CITY HALL - SEVENTH FLOOR
455 NORTH MAIN STREET
WICHITA, KANSAS 67202
(316) 268-4503
(316) 268-4114 FAX

STANDARD TYPE 1 CURB INLET OPENING = 6'x5'-9"

M. E. LINDEBAK P.E. – CITY ENGINEER

PROJECT NUMBER | INDEX CODE

DATE MAR 96 | SHEET OF