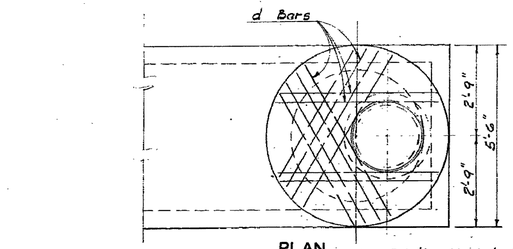
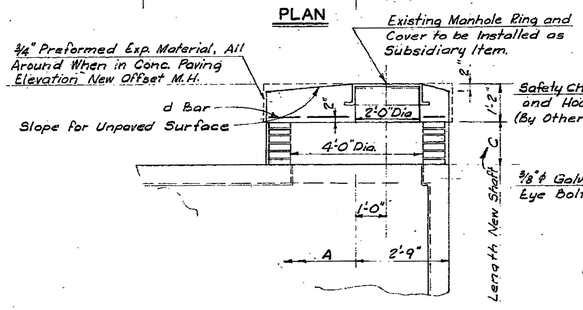
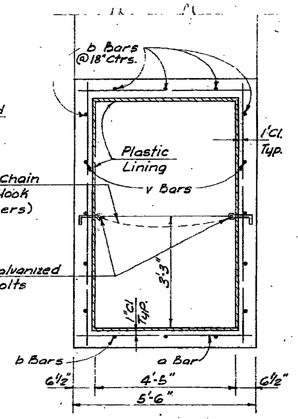


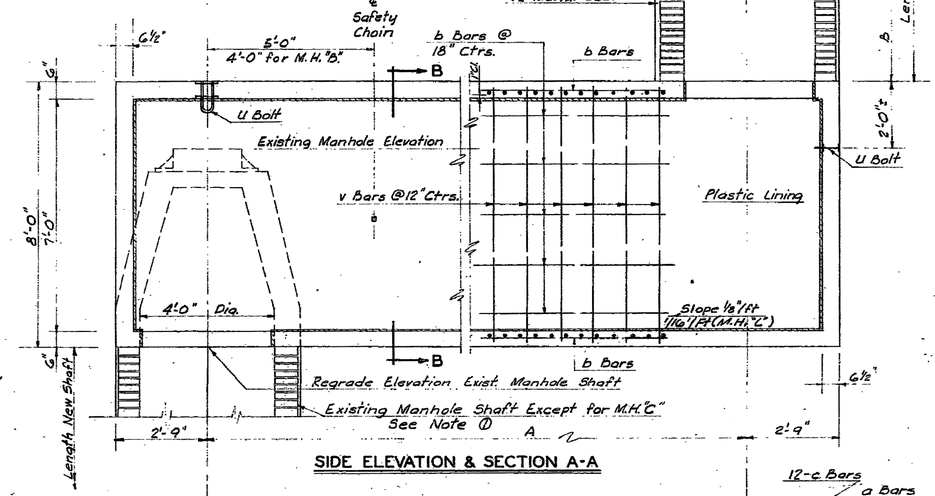
PLAN



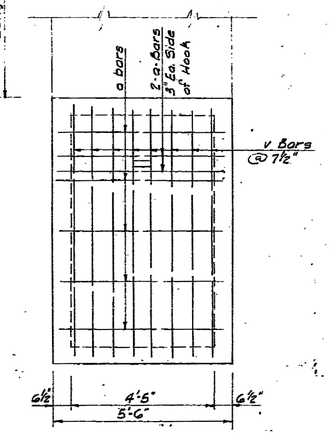
ELEVATION TYPE II ACCESS



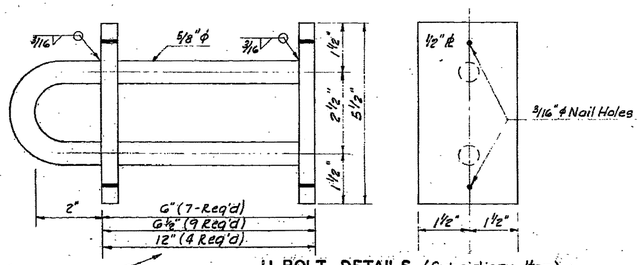
SECTION B-B



SIDE ELEVATION & SECTION A-A



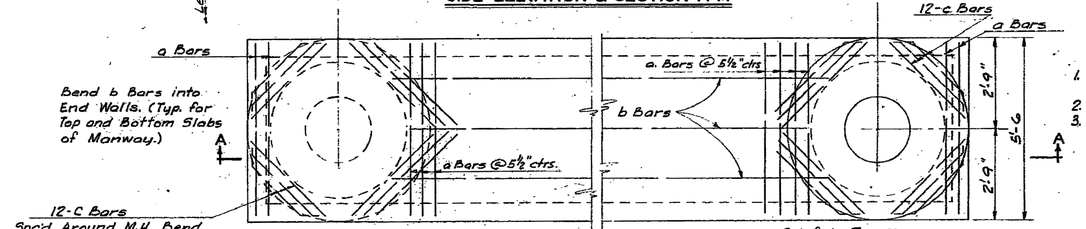
END VIEW



Quantity for Manholes "A" thru "N"

U BOLT DETAILS (Subsidiary Item)

Rod shall be A.S.T.M. A-320, Grade A.I.S.I. 304
Plate shall be A.S.T.M. A167, Grade 301, 302 or 304
Design Capacity: 6,000 lbs. (Half-Scale)



PLAN

GENERAL NOTES
1. Unit Stresses: f'c = 3000 p.s.i., fc = 1200 ps and fs = 20,000 p.s.i.
2. Class A Conc. Shall be Used Thruout.
3. All Dimensions are to Center-Line of Bar Unless Otherwise Noted.

SPECIAL NOTES
① Remove Top Cone of Existing M.H. to Section Below 4'-0" Dia. Shaft.
② Grade to Fit Ash Street.
③ 2'-0" Diameter Shaft.
④ Existing Top of Manhole at Approx. Ground Elevation.
⑤ Connect Existing 8" ϕ V.C.P. to M.H. as Required. (Subsidiary Item)

Manhole	Base-Line Station Center-Line Sewer Existing Manhole	Base-Line Offset to Center-Line Sewer Existing Manhole	Rdwy. Sta. Center-Line Sewer N.B. 35 W or S.B. 35 W	Rdwy. Offset Center-Line Sewer N.B. 35 W or S.B. 35 W	Existing Top of Manhole Elevation ④	Regrade Elevation Existing Manhole Shaft	Elevation Top of New M.H. Cover	Rdwy. Offset New M.H. N.B. 35 W S.B. 35 W or Base-Line	Length A	Length B	Length C	#4 Reinf. Bar a No.	a Length	b No.	b Length	c No.	c Length	d No.	d Length	v No.	v Length	Reinf. Steel (lbs.)	Class A Conc. (Cu. Yd.)	Plastic Lining (Sq. Ft.)	Plastic Lining (Sq. Ft.)	Class III Excav. Cu. Yds.	Length of New Shaft (Total)	Length Exist Shaft to be Removed
X	161+23.84	Rt. 138.84	161+38.76(N.B.)	Rt. 91.20(N.B.)	1278.4		①1285.84	Same	0'-0"																		10'-11 1/4"	4'-0"
X	162+11.75	Rt. 162.22			1279.5																							
X	164+17.58	Rt. 93.08	164+36.86(")	Rt. 41.35 "	1279.9																							
X	170+84.00	Lt. 17.58	170+30.16(S.B.)	Rt. 60.38 (S.B.)	1284.4		③1285.75	Same	0'-0"																		③1'-4 1/4"	
X	177+03.01	Lt. 111.59	176+26.94(")	Lt. 35.97 "	1283.7	1269.60	1279.50	Lt. 73.68 (S.B.)	38'-8"		0'-4"	190	5'-3"	16	43'-11"	24	3'-6"	12	5'-0"	106	7'-9"	~~1680~~ 1680	~~21.20~~ 21.20	~~7045~~	933.74	~~140.10~~	0'-4"	13'-5"
X	183+05.09	Lt. 112.37	Same	Lt. 50.37 "	1284.1	1271.76	1283.20	Lt. 101.00 (S.B.)	51'-7 1/2"		1'-9"	246	5'-3"	16	56'-10"	24	3'-6"	12	5'-0"	130	7'-9"	2239	29.45	~~9140~~	1341.53	~~172.00~~	1'-9"	11'-8"
X	189+00.93	Lt. 107.43	as Base-	Lt. 45.43 "	1282.8	1272.24	1282.00	Lt. 101.00 "	55'-6 7/8"		0'-0 1/4"	262	5'-3"	16	60'-10"	24	3'-6"	12	5'-0"	138	7'-9"	2373	31.37	~~7437~~	1412.65	~~158.00~~	0'-0 1/4"	9'-10 3/4"
X	194+96.96	Lt. 102.49	Line	Lt. 40.49 "	1284.4	1272.72	1284.10	Lt. 101.00 "	60'-7 5/8"		1'-7"	286	5'-3"	16	65'-10"	24	3'-6"	12	5'-0"	148	7'-9"	2568	33.83	~~7966~~	1526.65	~~180.00~~	⑤1'-7"	11'-0"
X⑥	201+09.06	Lt. 97.42	Stations	Lt. 35.42 "	1285.8	1273.20	1283.20	Lt. 101.00 "	65'-7"		0'-2"	306	5'-3"	16	70'-10"	24	3'-6"	12	5'-0"	158	7'-9"	2744	36.23	~~8007~~	1674.03	~~239.00~~	0'-2"	11'-11"
X	207+05.59	Lt. 95		Lt. 30.47 "	1284.5		②1285.99	Same	0'-0"																		③1'-6"	
XA	211+54.66	Lt. 94		Lt. 26.75 "	1285.9	1273.79	1283.34	Lt. 143.50 (6-1)	55'-9"		0'-1 1/4"	264	5'-3"	16	61'-0"	24	3'-6"	12	5'-0"	138	7'-9"	2308	31.47	~~7435~~	1413.48	~~174.00~~	0'-1 1/4"	11'-5 1/4"
Total	(This Sheet)																					13,905	183.55	~~8,437~~	8,305.00	1,054.6	~~11,100~~ 12'-10 3/4" ~~15408~~ 12'-10 3/4"	73'-4"

NO.	DATE	REVISIONS	BY	APP'D.
3				
2				
1				

No.	Revision	By	Date

RELOCATION OF SANITARY SEWER NO. 23
PHASE 3: ABANDONMENT PLANS
60" & 78" SANITARY SEWER
MANHOLE RELOCATIONS
JAMES L. ARMOUR, P.E. – CITY ENGINEER
CITY OF WICHITA PROJECT NO. 468-84375b

PEC PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
303 SOUTH TOPEKA WICHITA, KS 67202
316-262-2691 www.pec1.com

Designed by MDK, SAD | Job No. 35-07600-001 | Sht. 13 of 20
Drawn by CSL, JAN | Date SEPTEMBER 2011

FROM PROJECT: 35W-87 I-35W-1(28)43, 1964, SHEET 47

Saved 01-13-2012 10:32:29 AM by CSL
Plotted 01-13-2012 10:34:20 AM by CSL by CATHY S. LINK
Q:\2007\07600\001\Phase 3\07600-001-03-MH Relocation Details