F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	*	COOK	598	464
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
62302		*(1818, ETC, 2324.6-1PJR-9		

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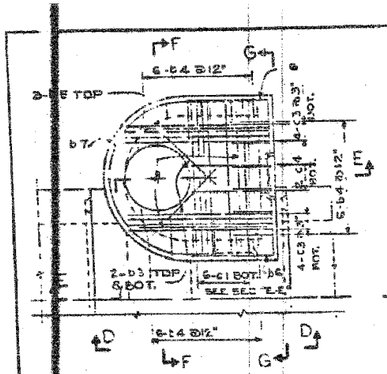

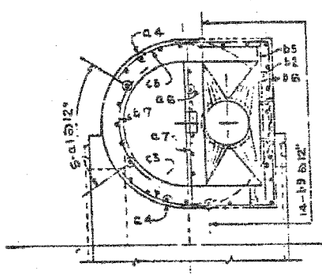

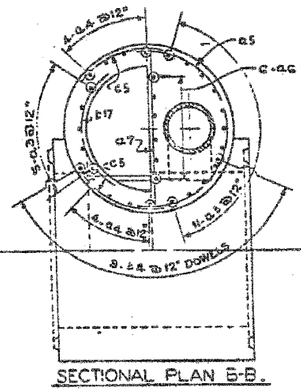

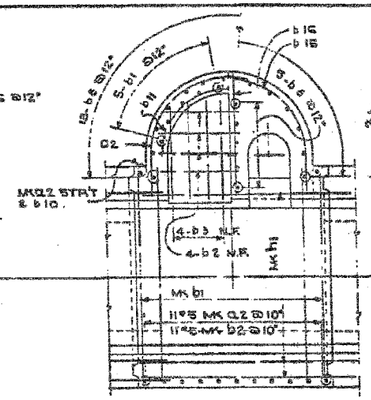

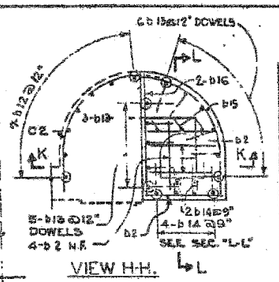

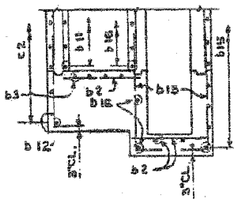

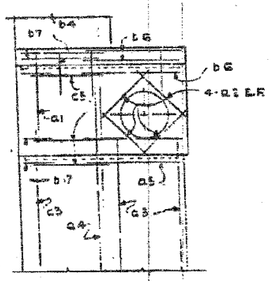

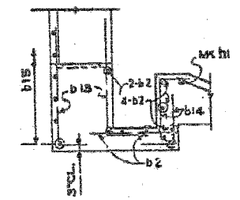

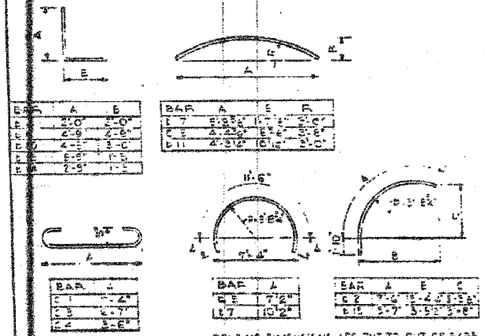

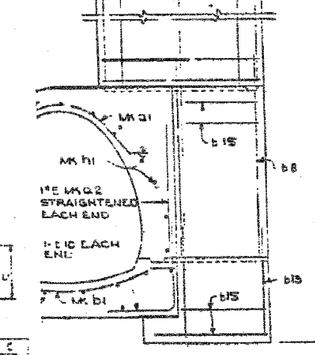

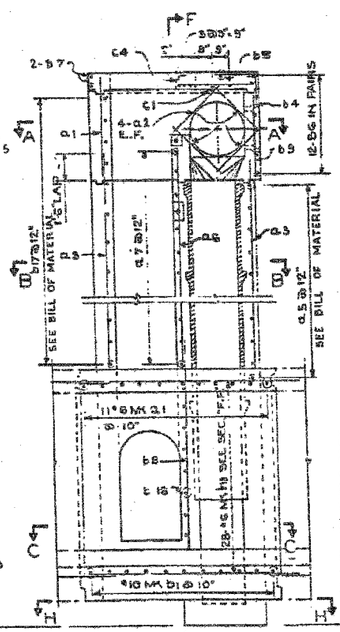

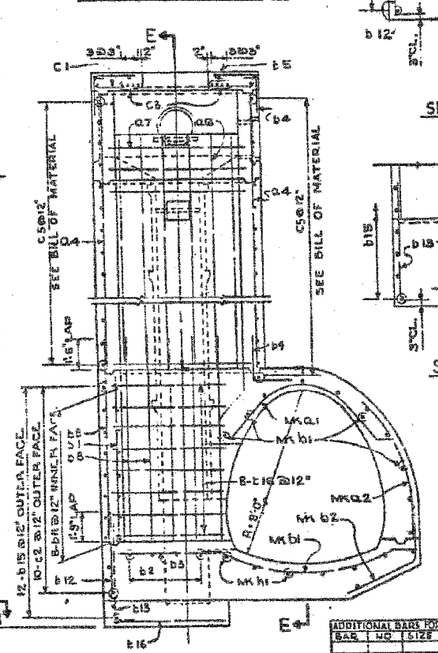

NOTES:
MINIMUM STEEL CLEARANCE SHALL BE 2" EXCEPT AS NOTED
MINIMUM LAP OF REINFORCEMENT SHALL BE 33 DIAMETERS
BEND IF POSSIBLE OR BURN OFF REINFORCING BARS IN FIELD TO CLEAR OPENINGS.

REINFORCING
TYPE B-24 N SHOWN
TYPE B-24 S OPPOSITE SITE

BILL OF MATERIAL

BARS TYPICAL OF ALL TYPE B MANHOLES

BAR	NO	SIZE	LENGTH	SHAPE	WEIGHT
C1	3	6	2'-0"		13
C2	24	4	3'-6"		56
b1	5	5	7'-8"		40
b2	14	5	3'-6"		51
b3	8	5	4'-6"		38
b4	27	5	4'-0"		113
b5	2	5	9'-0"		19
b6	12	5	9'-0"		113
b7	2	5	13'-6"		28
b8	16	5	9'-0"		175
b9	13	5	5'-0"		61
b10	2	5	7'-0"		15
b11	6	5	4'-6"		43
b12	14	5	2'-6"		37
b13	14	5	7'-6"		102
b14	4	5	4'-6"		26
b15	14	5	7'-6"		93
b16	10	5	8'-6"		87
C1	6	6	2'-8"		78
C2	10	6	5'-2"		125
C3	8	6	7'-11"		95
C4	1	6	5'-8"		11
Mk q1	11	6	11'-3"		186
Mk q2	13	5	7'-8"		104
Mk b1	11	10	11'-5"		521
Mk b2	11	5	6'-11"		79
Mk h1	25	6	11'-0"		362

ADDITIONAL BARS FOR MANHOLES AT STATIONS 71+20 & 76+00

Q3	16	4	24'-6"		262
Q4	6	4	27'-4"		116
Q5	22	4	12'-9"		264
Q6	6	4	25'-0"		100
Q7	25	4	7'-4"		122
D17	25	5	6'-8"		190
C5	25	6	4'-8"		186
1-MH ONLY	TOTAL WEIGHT REINF BARS			LBS	3887
	TOTAL VOL CLASS X CONCRETE			CU YDS	50.3

ADDITIONAL BARS FOR MANHOLE AT STA 81+46

Q3	16	4	28'-8"		298
Q4	6	4	29'-7"		37
Q5	22	4	12'-9"		187
Q6	6	4	23'-3"		95
Q7	23	4	7'-4"		113
D17	26	5	6'-8"		170
C5	26	6	4'-8"		182
1-MH ONLY	TOTAL WEIGHT REINF. BARS			LBS	3808
	TOTAL VOL CLASS X CONCRETE			CU YDS	47.6

ADDITIONAL BARS FOR MANHOLE AT STA 87+40

Q3	16	4	28'-8"		304
Q4	6	4	31'-6"		167
Q5	28	4	12'-9"		238
Q6	6	4	23'-0"		116
Q7	28	4	7'-4"		142
D17	32	5	6'-8"		217
C5	32	6	4'-8"		224
1-MH ONLY	TOTAL WEIGHT REINF. BARS			LBS	4008
	TOTAL VOL CLASS X CONCRETE			CU YDS	54.2

ADDITIONAL BARS FOR MANHOLE AT STA 94+30

BAR	NO	SIZE	LENGTH	SHAPE	WEIGHT
Q3	16	4	33'-0"		474
Q4	8	4	32'-10"		211
Q5	34	4	12'-9"		289
Q6	6	4	25'-0"		142
Q7	33	4	7'-4"		161
D17	38	5	6'-8"		258
C5	38	6	4'-8"		266

ILLINOIS DIVISION OF HIGHWAYS
SOUTH EXPRESSWAY
REINFORCING
SPECIAL MANHOLE TYPE "B" 24 MAIN DRAIN

SHEET JC-12 OF JC-22

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
31ST STREET TO 71ST STREET
SB EXPRESS LANE RECONSTRUCTION
JUNCTION CHAMBERS
EXISTING DROP MANHOLE PLANS

SCALE: NTS — DRAWN BY: BDC
DATE: 07/07/05 — CHECKED BY: BLU

12:04:53 PM 6/24/2005

FOR INFORMATION ONLY

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.226.0100
www.bbandainc.com