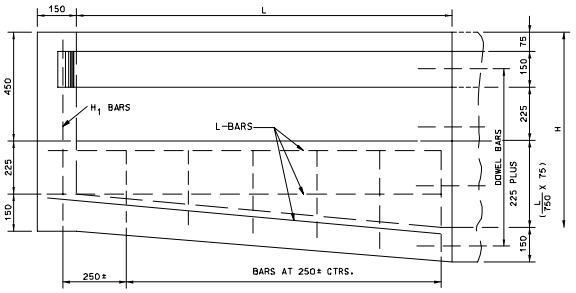
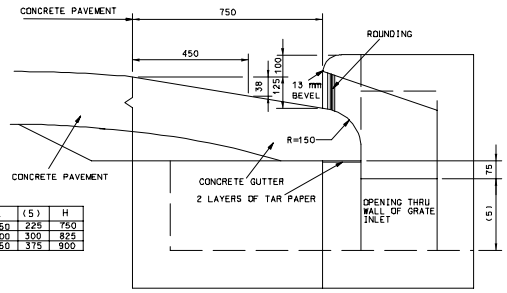


(EXTENSION)
LONGITUDINAL SECTION



L	(5)	H
750	225	750
1500	300	825
2250	375	900

SECTION SHOWING DETAILS OF OPENING AND DEPRESSION IN PAVEMENT OR GUTTER

BAR BILL - INTAKE BOX

D	CONC. m^3	STEEL kg	A-BARS TRANSVERSE IN BOTTOM WALLS & TOP		B_1-BARS VERTICAL IN WALLS		B_2-BARS VERTICAL IN WALLS		C_1-BARS LONGITUDINAL IN BOTTOM AND SIDE		C_2-BARS LONGITUDINAL IN SIDE AND TOP		E_1-BARS LONGITUDINAL IN GUTTER		E_2-BARS LONGITUDINAL IN CURB		F-BARS TRANSVERSE IN GUTTER		U-BARS IN GUTTER	
			NO	LGTH	NO	LGTH	NO	LGTH	NO	LGTH	NO	LGTH	NO	LGTH	NO	LGTH	NO	LGTH	NO	LGTH
750	0.60	58	15	825	8	825	10	375	8	1275	6	375	5	2100	1	1425	6	825	8	825
825	0.64	60	15	825	8	900	10	450	8	1275	6	375	5	2100	1	1425	6	825	8	825
900	0.69	61	15	825	8	975	10	525	8	1275	6	375	5	2100	1	1425	6	825	8	825
975	0.73	62	15	825	8	1050	10	600	8	1275	6	375	5	2100	1	1425	6	825	8	825
1050	0.77	68	17	825	8	1125	10	675	10	1275	6	375	5	2100	1	1425	6	825	8	825
1125	0.82	69	17	825	8	1200	10	750	10	1275	6	375	5	2100	1	1425	6	825	8	825
1200	0.86	71	17	825	8	1275	10	825	10	1275	6	375	5	2100	1	1425	6	825	8	825
1275	0.90	76	19	825	8	1350	10	900	12	1275	6	375	5	2100	1	1425	6	825	8	825
1350	0.95	77	19	825	8	1425	10	975	12	1275	6	375	5	2100	1	1425	6	825	8	825
1425	0.99	79	19	825	8	1500	10	1050	12	1275	6	375	5	2100	1	1425	6	825	8	825
1500	1.04	84	21	825	8	1575	10	1125	14	1275	6	375	5	2100	1	1425	6	825	8	825

CONCRETE QUANTITIES INCLUDE 0.11 m^3 FOR INVERT — G-BARS #16 ALL OTHER BARS #13

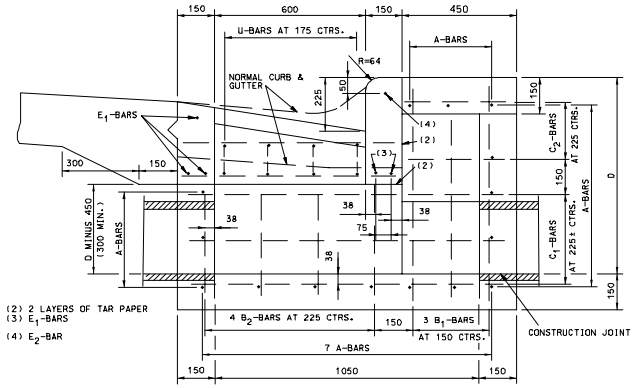
CONCRETE AND STEEL DEDUCTIONS TO BE MADE FOR EACH EXTENSION OPENING		
225 X 300	300 X 300	375 X 300
0.01 m^3	0.01 m^3	0.02 m^3
1.1 kg	1.7 kg	1.8 kg

m^3 DEDUCTION TO BE MADE FOR PIPE OPENING			
300	375	450	600
0.01	0.03	0.04	0.07

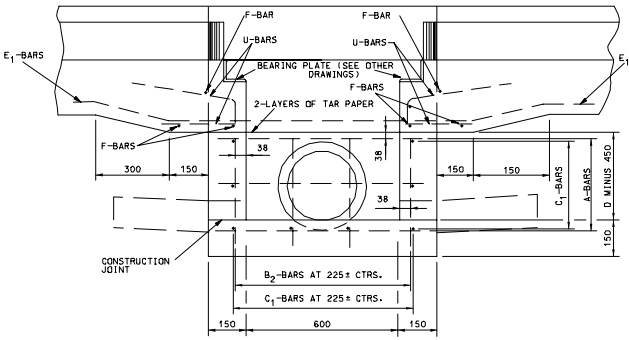
m^3 & kg ADDITIONS TO BE MADE FOR EACH EXTENSION		
LGTH	m^3	kg
750	0.30	27
1500	0.43	45
2250	0.56	64

BAR BILL - EXTENSION

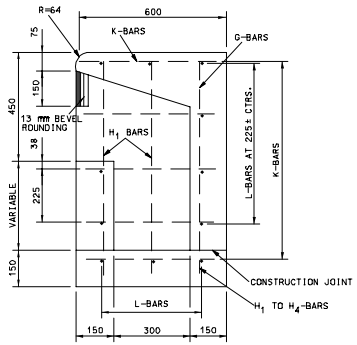
LGTH OF EXT. L		750		1500		2250	
MARK	SIZE	NO	LGTH	NO	LGTH	NO	LGTH
G	#16	4	975	7	975	10	975
H_1	#13	4	750	4	750	4	750
H_2	#13	2	825	3	825	3	825
H_3	#13			2	900	3	900
H_4	#13					2	975
H_5	#13	1	300	1	300	1	300
H_6	#13	2	375	3	375	3	375
H_7	#13			2	450	3	450
H_8	#13					2	525
K	#13	7	525	10	525	13	525
L	#13	11	825	11	1575	11	2325
DOWEL BAR	#13	8	300	9	300	10	300



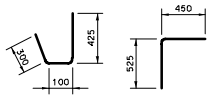
(INTAKE BOX)
SECTION A-A



SECTION B-B

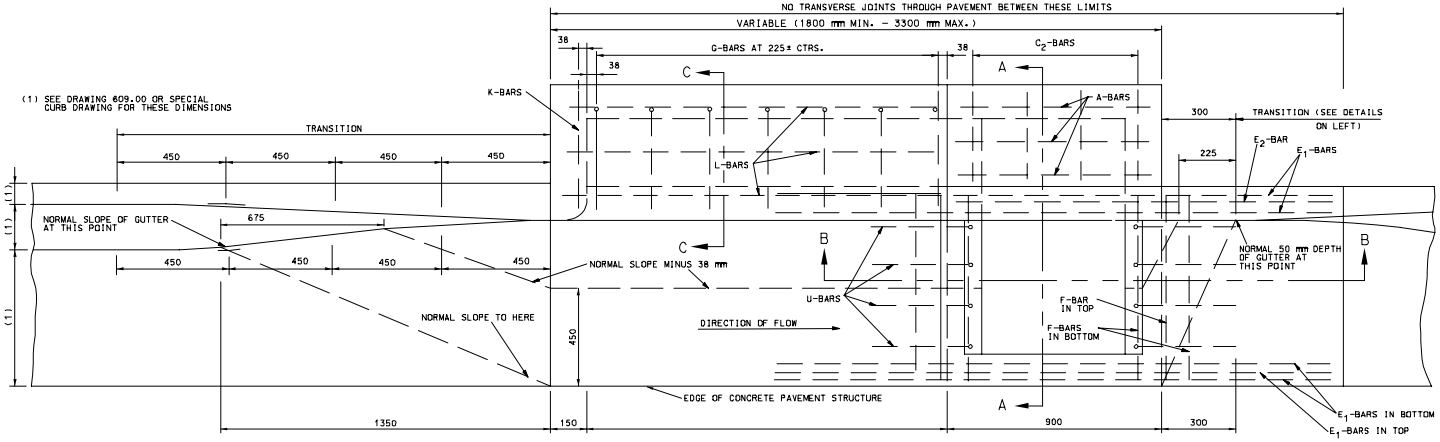


(EXTENSION)
SECTION C-C



U-BARS G-BARS

BENDING DIAGRAMS



PLAN

GENERAL NOTES:

ALL DIMENSIONS ARE SHOWN IN mm UNLESS OTHERWISE NOTED.

TOP OF DROP INLET WALLS SHALL BE LEVEL AND TO THE ELEVATION OF BOTTOM OF SLAB AT EDGE OF TRAVELED WAY OR BOTTOM OF CURB AND GUTTER AT DROP INLET.

ALL CONCRETE ABOVE THE TAR-PAPER SEPARATION JOINT IS TO BE CONSTRUCTED DURING PAVING OPERATIONS OR CURB AND GUTTER CONSTRUCTION; AND WILL BE PAID FOR AS SQUARE METERS OF CONCRETE PAVEMENT OR METERS OF CURB AND GUTTER.

ALL CONCRETE BELOW THE TAR-PAPER SEPARATION JOINTS SHALL BE CLASS "B" CONCRETE. CONCRETE IN INVERTS SHALL BE PLACED AFTER DROP INLET HAS BEEN CONSTRUCTED.

REINFORCING BARS SHALL BE CUT AND/OR BENT AT PIPE OPENINGS. ALL U AND F-BARS SHALL BE SECURELY TIED TOGETHER AND FASTENED TO SECURE AGAINST ANY POSSIBLE DISPLACEMENT DURING THE PLACING OF CONCRETE. THE REINFORCING STEEL SHOWN ON THIS DRAWING IS IN ADDITION TO ANY REINFORCING SHOWN ON DRAWINGS FOR CONCRETE PAVEMENT OR CURB AND GUTTER.

NO DIRECT PAYMENT WILL BE MADE FOR CUTTING PIPE NOR FOR CUTTING AND BENDING REINFORCING BARS.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

DROP INLET

TYPE X

DATE:_____ EFFECTIVE: 05-01-1997 M604.29C 1/1