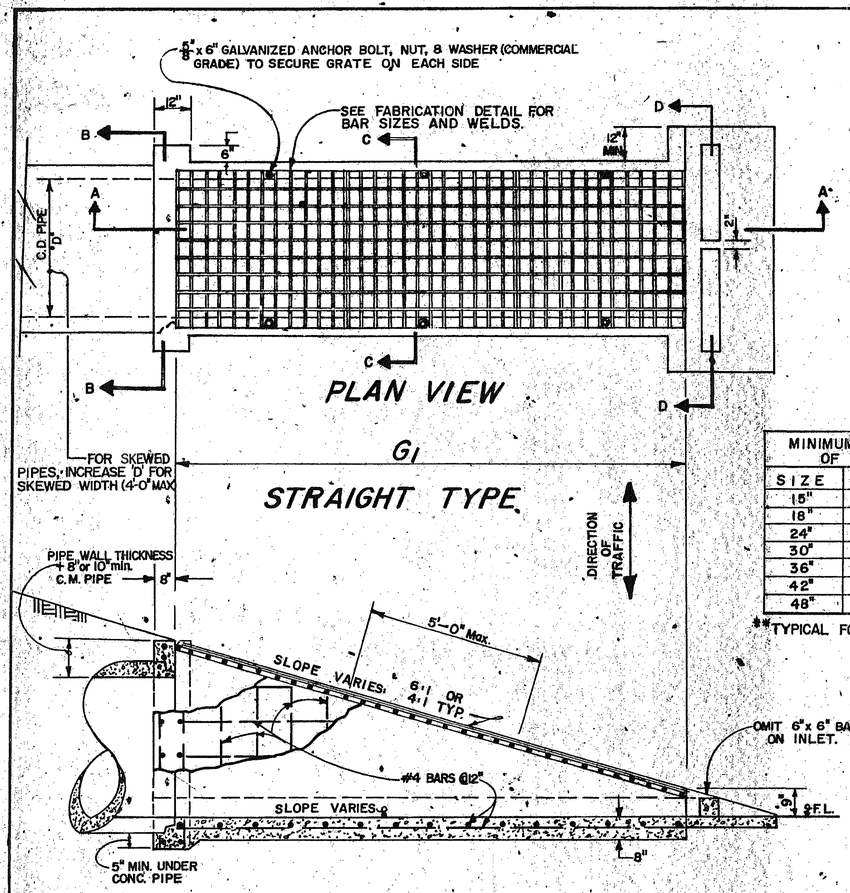
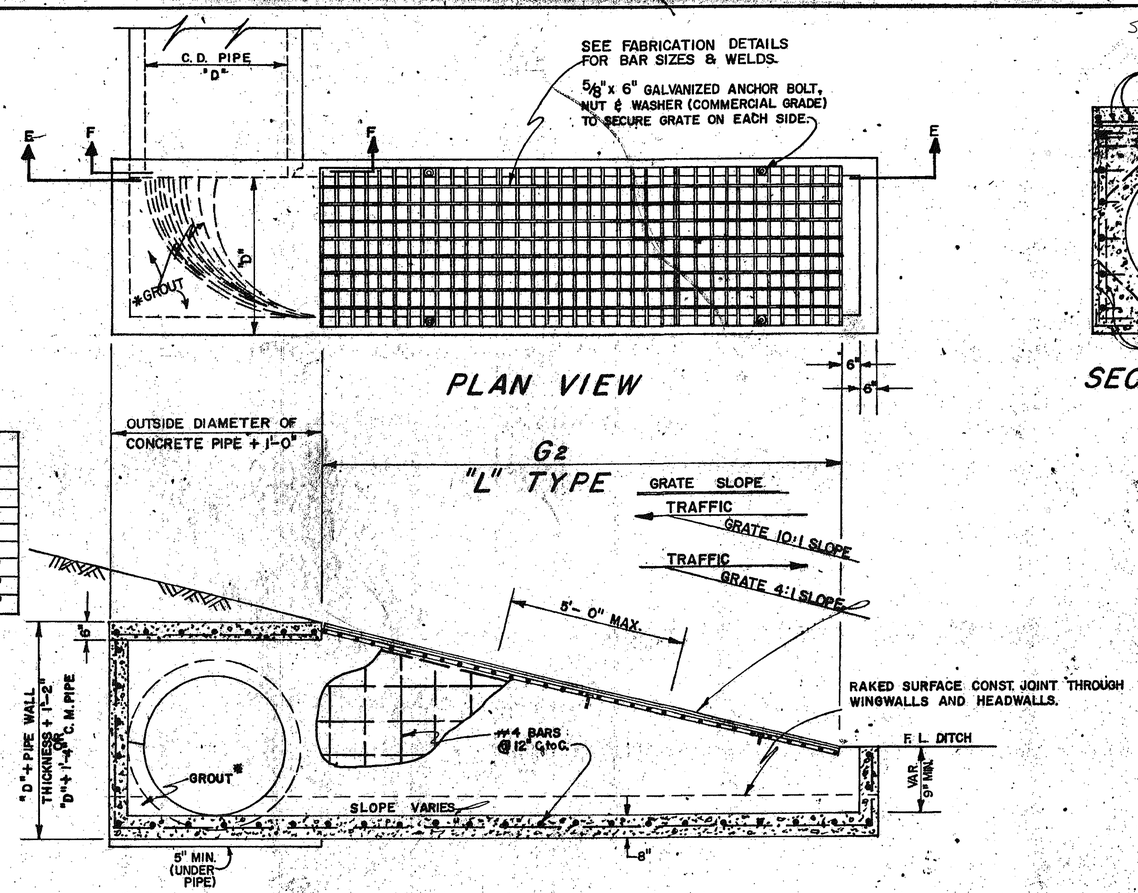


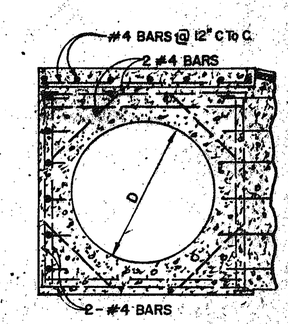
SECTION A-A (SHOWN FOR OUTLET)

MINIMUM LENGTH OF GRATE**		
SIZE	G_1	G_2
15"	6'-0"	8'-0"
18"	7'-0"	9'-0"
24"	9'-6"	11'-6"
30"	11'-6"	13'-6"
36"	14'-0"	15'-6"
42"	16'-0"	18'-0"
48"	18'-0"	20'-0"

**TYPICAL FOR 4:1 SLOPES



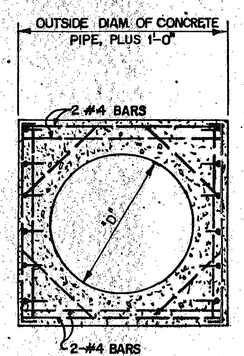
SECTION E-E (SHOWN FOR INTLET)



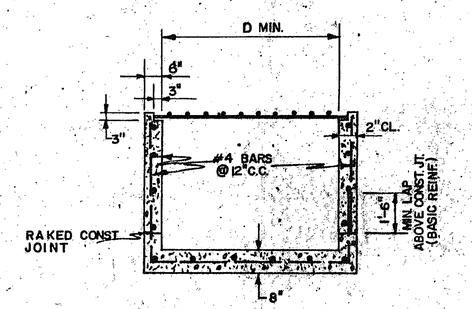
SECTION F-F

NOTE: A MAXIMUM TRANSVERSE SPACE OF 3" IS PERMITTED BETWEEN ABUTTING GRATE SECTIONS.

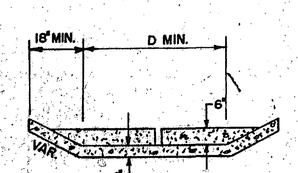
NOTE:
* GROUT TO MEET THE REQ'MTS. OF SECTION 834.



SECTION B-B



SECTION C-C



SECTION D-D

SUMMARY OF QUANTITIES				
CULV'T. DIAM. INCHES	STRAIGHT TYPE		"L" TYPE	
	CONC. CU. YDS.	REINF. STEEL LBS.	CONC. CU. YDS.	REINF. STEEL LBS.
15"	0.96	71	1.49	136
18"	1.07	75	1.87	142
24"	1.93	111	2.69	197
30"	2.52	179	3.63	248
36"	3.30	220	5.07	315
42"	3.90	298	6.10	427
48"	4.90	353	7.28	510

BASIS OF PAYMENT:
HEADWALL: CUBIC YDS. OF CONC. INCLUDING REINF. STEEL.
GRATE: SAFETY GRATE TYPE _____ Sq Ft.
NOTE: QUANTITIES ARE TYPICAL FOR 4:1 SLOPE.

SPECIAL NOTE:
TYPICAL USE OF THESE STRUCTURES IS WHERE THE ENDS OF STORM DRAIN PIPES UNDER THE MAINLINE FALL INSIDE THE CLEAR ZONE.

FOR DETAILS OF SAFETY END SECTIONS (FOR SIDE DRAIN PIPE OR STORM DRAIN PIPE PARALLEL TO MAINLINE), SEE SEPARATE DETAILS.

REVISION	DATE
Gen. Revision	6-21-99
Grate Slope	10-4-72
Hydro Data	4-20-72
Grate Revised	8-1-67

CONSTRUCTION DETAILS
—HEADWALLS—
SAFETY INLETS WITH GRATES

SCALE: 1/4" = 1'-0"
JULY, 1970

DESIGNED: J L P
DRAWN: J M W
TRACED: A V S
CHECKED: H R

D-5

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