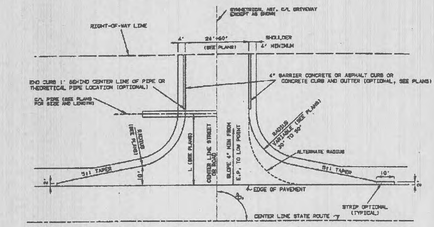
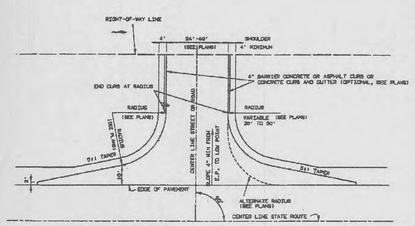
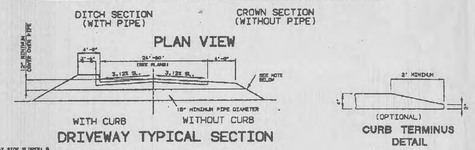
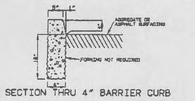
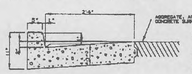
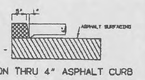




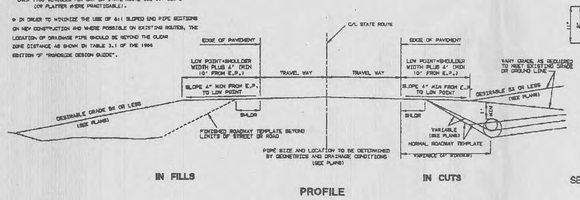






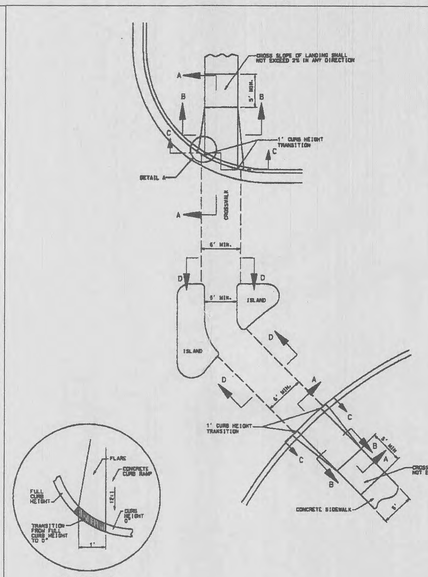


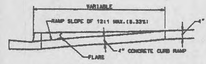
NOTE:
RECOMMENDED WIDTH OF ROADWAY - 24' WITHOUT PARKING ON ROAD AND 32' WITH PARKING ON ROAD.

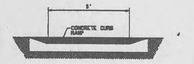


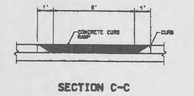
GENERAL NOTES:
SURFACING SHALL BE AS SHOWN ON THE PLANS OR PERMIT.
LENGTH OF PIPE SHALL BE DETERMINED BY DEPTH AND LOCATION OF FILL (SEE PLANS).
AT PAVED APPROACH IS REQUIRED, REFER TO STANDARD PLAN 606.00 FOR CONSTRUCTION DETAILS AND CONSTRUCT CURB (SF MEASURED) TO MEET CURB ON PAVED APPROACH. TRANSITION REQUIRED FROM 4" CURB TO 8" CURB.
CURB OR CURB AND GUTTER BETWEEN RIGHT-OF-WAY LINE AND THE BACK OF SIDEWALK SHALL BE CONSTRUCTED WITH DRAINAGE ILLUSTRATION DETAILS FOR MINIMUM SITUATIONS. TRAFFIC VOLUMES, SAFETY CONSIDERATIONS, DRAINAGE CONSIDERATIONS, LOCAL REQUIREMENTS, ETC., MAY DICTATE MORE EXTENSIVE IMPROVEMENTS THAN ILLUSTRATED.
A MINIMUM 150-FOOT SIGHT DISTANCE TRIANGLE, MEASURED ALONG THE CENTER LINE OF THE INTERSECTING ROADWAYS, SHOULD BE PROVIDED.

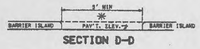
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION	
DRIVEWAY TYPE II	
MON JAN. 1, 1992	DRAWING 203.62 SHEET 1 OF 1







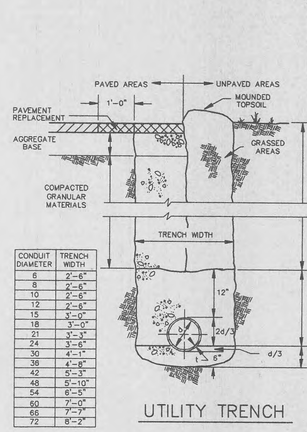




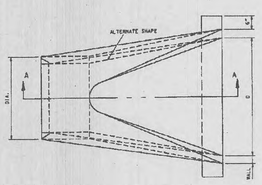
* RAMP OR CUT-THROUGH DEPENDING ON ROADWAY TYPES. IF RAMP, PROVIDE 5' MIN. LANDING AND SLOPE RAMPS AT 12:1.

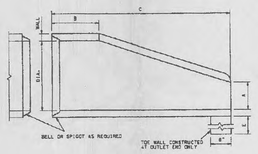
GENERAL NOTES:
1211 SLOPE ON ALL CONCRETE CURB RAMPS. PROVIDE A LANDING THE SAME WIDTH AS CURB RAMP AND 5' LONG ADJACENT TO CURB RAMP WITH MAXIMUM 2% SLOPE IN ANY DIRECTION.
TINTED CONCRETE (AS PER STANDARD SPECIFICATION 1096) SHALL BE USED ON CURB RAMP ONLY.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION			
CONCRETE SIDEWALK AND CURB RAMPS			
DATE: 05-01-98	EFFECTIVE: 05-01-1997	608.10J	2/2



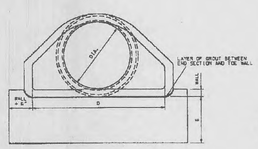
CONDUIT DIAMETER	TRENCH WIDTH
6	2'-6"
8	2'-6"
10	2'-6"
12	2'-6"
15	3'-0"
18	3'-0"
21	3'-3"
24	3'-6"
30	4'-1"
36	4'-8"
42	5'-3"
48	5'-10"
54	6'-5"
60	7'-0"
66	7'-7"
72	8'-2"





REINFORCEMENT				
	BARREL SECTION REINFORCEMENT		FLARE SECTION REINFORCEMENT (ONE LAYER ONLY IN CENTER OF WALL)	
	CIRCULAR	ELLIPTICAL	LONGITUDINAL STEEL	TRANSVERSE STEEL
ADJOINING PIPE DIA.	INNER CAGE SQ. IN./L.F.	OUTER CAGE SQ. IN./ L.F.	SQ. IN./ LIN. FT.	SQ. IN./ LIN. FT.
12"	0.07		0.054	0.060
15"	0.07		0.067	0.060
18"	0.07	0.07	0.081	0.060
21"	0.07	0.07	0.095	0.072
24"	0.07	0.11	0.108	0.084
30"	0.10	0.15	0.081	0.060
36"	0.13	0.19	0.095	0.072
42"	0.15	0.23	0.108	0.084
48"	0.15	0.30	0.122	0.096
54"	0.22	0.34	0.135	0.108
60"	0.22	0.41	0.149	0.120
66"	0.29	0.45	0.163	0.132
72"	0.29	0.49	0.176	0.144
78"	0.36	0.53	0.190	0.156
84"	0.43	0.57	0.203	0.168

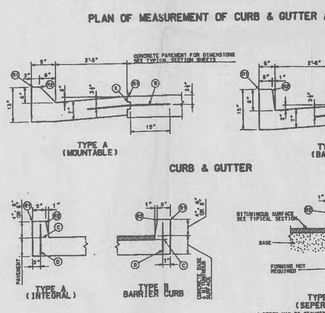
DIMENSIONS					
DIA.	WALL	A	B MIN.	C H.M.	D	E
12"	6"	1'-0"	1'-0"	0'-6"	1'-0"	1'-6"
15"	6"	1'-3"	1'-0"	0'-6"	1'-3"	1'-6"
18"	6"	1'-6"	1'-0"	0'-6"	1'-6"	1'-6"
21"	6"	1'-9"	1'-0"	0'-6"	1'-9"	1'-6"
24"	6"	2'-0"	1'-0"	0'-6"	2'-0"	1'-6"
30"	6"	2'-6"	1'-0"	0'-6"	2'-6"	1'-6"
36"	6"	3'-0"	1'-0"	0'-6"	3'-0"	1'-6"
42"	6"	3'-6"	1'-0"	0'-6"	3'-6"	1'-6"
48"	6"	4'-0"	1'-0"	0'-6"	4'-0"	1'-6"
54"	6"	4'-6"	1'-0"	0'-6"	4'-6"	1'-6"
60"	6"	5'-0"	1'-0"	0'-6"	5'-0"	1'-6"
66"	6"	5'-6"	1'-0"	0'-6"	5'-6"	1'-6"
72"	6"	6'-0"	1'-0"	0'-6"	6'-0"	1'-6"
78"	6"	6'-6"	1'-0"	0'-6"	6'-6"	1'-6"
84"	6"	7'-0"	1'-0"	0'-6"	7'-0"	1'-6"

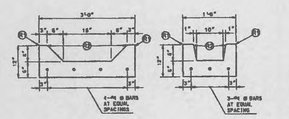


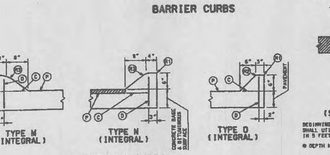
GENERAL NOTES:
SLIGHT VARIATIONS IN BODY SHAPE AND DIMENSIONS FROM THOSE SHOWN MAY BE ACCEPTED IF APPROVED BY THE ENGINEER.
NOT MORE THAN THREE LIFT HOLES MAY BE DRILLED OR CAST IN THE END SECTION FOR HANDLING AND LAYING.
LIFT LUGS OR BARS WILL BE PERMITTED IN PRECAST TOE WALLS.
TOE WALLS MAY BE CAST-IN-PLACE OR PRECAST.

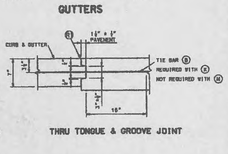
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION			
FLARED END SECTION PRECAST CONCRETE			
DATE: 05-01-98	EFFECTIVE: 10-01-1996	732.00M	1/2

LEGEND
1. TIE BARS - 30" E #5 @ AT 30" CTRS.
2. METHODICALLY CONSTRUCTED JOINT. IF CONSTRUCTED IN THIS MANNER TIE BARS MUST BE USED.
3. 3" MINIMUM TRANSVERSE CONTRACTION JOINT. (PREFORMED OR SAWED)
4. NO. #5 TIE BAR AT 24" CTRS. LENGTH OF THE TIE BARS EQUALS THICKNESS OF PAVEMENT PLUS HEIGHT OF CURB, LESS 4 INCHES.
5. 3/4" TRANSVERSE EXPANSION JOINT. (PREFORMED OR SAWED)
6. 3/4" TRANSVERSE EXPANSION JOINT. (PREFORMED OR SAWED)
7. FILLER FOR JOINTS - NOT POURED.
8. PREFORMED JOINT FILLER MATERIAL.
9. TONGUE & GROOVE JOINT WITH TIE BAR - SEE DETAIL.
10. TONGUE & GROOVE JOINT WITHOUT TIE BARS - SEE DETAIL.
11. NOT LESS THAN 10' OR MORE THAN 30'.
12. TOP OF PAVEMENT OR CONCRETE BASE.
13. TOP OF CURB.
14. ROUND TO 1/2" RADIUS. (EXCEPT FOR SAWED JOINTS)
15. ROUND TO 1" RADIUS.
16. CONSTRUCT TO 5" RADIUS









GENERAL NOTES:
A MINIMUM 4" TYPE 5 AGGREGATE BASE SHALL BE PLACED BENEATH ALL CURB AND GUTTER SECTIONS.
WHEN CURBS ARE CONSTRUCTED DIRECTLY BENEATH GUARD RAIL THE CURB HEIGHT WILL BE 4 INCHES.
CURB, GUTTER AND CURB AND GUTTER CONSTRUCTED ALONG AND ATTACHED TO CONCRETE PAVEMENT OF WIDE WALL SLABS:
1. JOINT C1 THROUGH CURB AND ONE-QUARTER GUTTER THICKNESS AS A CONTINUATION OF EACH CONTRACTION JOINT IN THE BASE OR PAVEMENT.
2. JOINT E1 AS CONTINUATION OF 3/4" EXPANSION JOINT E IN THE CONCRETE BASE OR PAVEMENT SHALL EXTEND AND CONTINUE THROUGH THE CURB, GUTTER, AND CURB AND GUTTER.
3. JOINT E2 THROUGH CURB, AND CURB AND GUTTER AT THE BEGINNING AND END OF EACH PAVED APPROACH.

CURB, GUTTER AND CURB AND GUTTER CONSTRUCTED APART OR SEPARATED FROM CONCRETE BASE, PAVEMENT OR BE A 6" WIDE FOR INSTALLING CONCRETE PAVEMENT SHALL HAVE CONTRACTION JOINTS SPACED AT INTERVALS OF 30 FEET BETWEEN EXPANSION JOINTS. EXPANSION JOINTS SHALL BE PLACED AT THE BEGINNING AND END OF EACH PAVED APPROACH. CURB AND GUTTER SHALL HAVE CONTRACTION JOINTS SPACED AT INTERVALS OF 30 FEET BETWEEN CURB AND TO A DEPTH OF 1 GUTTER THICKNESS AT INTERVALS OF 30 FEET BETWEEN APPROACHES.

JOINTS E1 AND E2 AND JOINT C1 THROUGH CURB SHALL BE FILLED WITH PREFORMED FILLER MATERIAL AND SEALED WITH HOT POURED FILLER FOR JOINTS.

JOINT C1 IN GUTTER SHALL BE FILLED AND SEALED WITH HOT POURED FILLER FOR JOINTS.

JOINTS C1 IN GUTTER SHALL BE FILLED WITH PREFORMED FILLER AND SEALED WITH HOT FILLER MATERIAL.

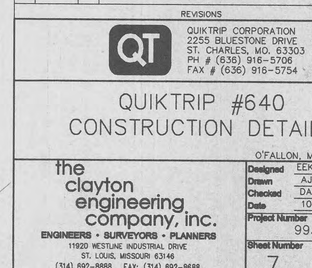
JOINTS E2 IN GUTTER SHALL BE FILLED WITH PREFORMED FILLER AND SEALED WITH FILLER OR FILLED WITH HOT POURED FILLER.

PREFORMED FILLER MATERIAL SHALL BE PLACED TO PROVIDE 1" HOT POURED FILLER FOR JOINTS.

THE BARRIERED CLASS CURBS MAY BE CONSTRUCTED WITHOUT BATTER WHEN CONSTRUCTED ON A RADIUS OF 5 FEET OR LESS. THE RE WILL BE REQUIRED.

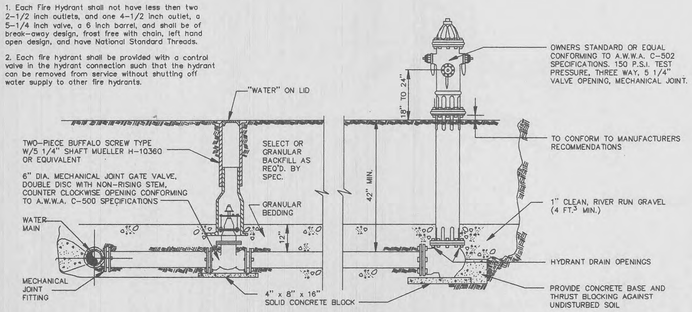
WHERE A SIDEWALK INTERSECTS A CURB, THE SIDEWALK SHALL BE RAMPED NO STEEPER THAN 12:1 SLOPE TO PROVIDE ACCESS FOR WHEELCHAIR ACROSS APPROACHES.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION			
CONCRETE CURB CURB AND GUTTER GUTTER			
DATE: 05-01-98	EFFECTIVE: 10-01-1996	609.001	1/1

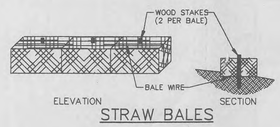


NOTE: HDCP SIGN TO BE MOUNTED TO BLDG. WALL CENTERED ON HDCP. PARKING SPACE.

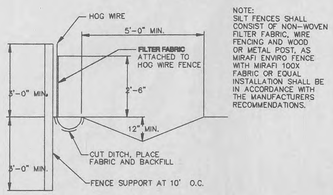
1. Each fire hydrant shall not have less then two 2-1/2 inch outlets, and one 4-1/2 inch outlet, a 5-1/4 inch valve, a 6 inch barrel, and shall be of break-away design, frost free with chain, left hand open design, and have National Standard Threads.
2. Each fire hydrant shall be provided with a control valve in the hydrant connection such that the hydrant can be removed from service without shutting off water supply to other fire hydrants.



FIRE HYDRANT INSTALLATION

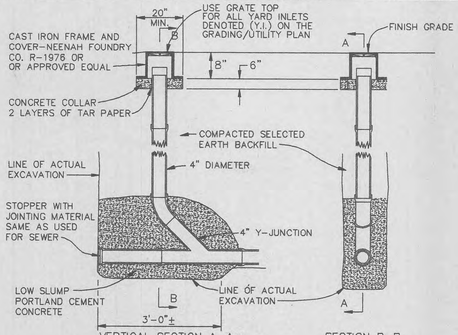


STRAW BALES



NOTE:
SILT FENCES SHALL CONSIST OF NON-WOVEN FILTER FABRIC, WIRE FENCING AND WOOD OR METAL POST, AS MIRAFI ENVIRO FENCE WITH MIRAFI 100X FABRIC OR EQUAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

SILTATION CONTROL FENCE & SWALE



SEWER CLEANOUT

REVISIONS		

QUIKTRIP CORPORATION
2255 BLUESTONE DRIVE
ST. CHARLES, MO. 63303
PH # (636) 916-5706
FAX # (636) 916-5754

QUIKTRIP #640
CONSTRUCTION DETAILS

O'FALLON, MISSOURI 63366

the clayton engineering company, inc.
ENGINEERS • SURVEYORS • PLANNERS
11920 WESTLINE INDUSTRIAL DRIVE
ST. LOUIS, MISSOURI 63146
(314) 692-8888 FAX: (314) 692-8688
clayton-engineering.com

Designed	EEK/AJM
Drawn	AJM
Checked	DAC
Date	10/10/00
Project Number	99301
Sheet Number	7 of 11

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