

REACH	HEC-1 FLOW W/D/W. (CFS)	CHANNEL LENGTH (FT)	EXISTING IMPROVEMENT	TOTAL WIDTH (FT)	TOTAL DEPTH (FT)	RECOMMENDED IMPROVEMENT
12C TO DESIGN POINT 11	4,026	5,500	NATURAL	80	8.0	NATURAL
12C TO DESIGN POINT 12C1	1,289	600	NATURAL	9	5.5	SMALL LINED CONCRETE CHANNEL WITH BRIDGE AT UPRAMP SIDE OF INTERSECTION
12C TO DESIGN POINT 12	300	300	NATURAL	54" RCP	N/A	SPRUE JOINTS WITH OVERLAP JOINTS
12B TO DESIGN POINT 12C	1,239	2,500	CONCRETE	8	4.0	NO IMPROVEMENT REQUIRED
12 TO DESIGN POINT 12B	430	2,800	48" PIPE	36" RCP	N/A	NO IMPROVEMENT REQUIRED
11 TO DESIGN POINT 12A	541	2,400	CONCRETE	8	4.0	PARALLEL PIPE 11, 280' T
BEFORE CONCRETE LINED CHANNEL (STATION 11, 140')						

REACH	HEC-1 FLOW W/D/W. (CFS)	CHANNEL LENGTH (FT)	EXISTING IMPROVEMENT	TOTAL WIDTH (FT)	TOTAL DEPTH (FT)	RECOMMENDED IMPROVEMENT
14 TO DESIGN POINT 23A	240	3,200	48" PIPE	30" RCP	N/A	PARALLEL PIPE 11, 280'
12 TO DESIGN POINT 23	613	4,550	CONCRETE	8	5.0	NO IMPROVEMENT REQUIRED
12 TO DESIGN POINT 22A	163	1,450	42" PIPE	N/A	N/A	NO IMPROVEMENT REQUIRED
11 TO DESIGN POINT 22	343	2,400	CONCRETE	6	5.0	NO IMPROVEMENT REQUIRED

LOCATION	HEC-1 FLOW W/D/W. (CFS)	BRIDGE LENGTH (FT)	EXISTING IMPROVEMENT	TOTAL WIDTH (FT)	TOTAL DEPTH (FT)	RECOMMENDED IMPROVEMENT
HEADWATER RIDGE DR (DP 12C)	1,289	100	18" x 18" x 4"	N/A	N/A	NO IMPROVEMENT REQUIRED
RESEARCH PAVY DR (DP 12A)	541	220	18" x 18" x 4"	N/A	N/A	NO IMPROVEMENT REQUIRED

LOCATION	HEC-1 FLOW W/D/W. (CFS)	EXISTING IMPROVEMENT	PROPOSED IMPROVEMENT
CITY BRIDGES			
RODNER ROAD (DP 12)	4,076	WIDTH - 15' x 22'	REPLACE FOR 8 LANE ARTERIAL, 143' x 200'
WATER WADDER (DP 12)	4,125	N/A	WIDEN FOR 8 LANE ARTERIAL, 143' x 200'



- 1 AGRICULTURAL CHANNEL - drainage transecting pastures and fields

2 BACKWATER WETLAND - expanded areas of drainage above obstructions

3 ENGINEERED FLOODWAY - concrete lined channels

4 HERBACEOUS WETLAND - marshes, pondmargins and protected places along channels

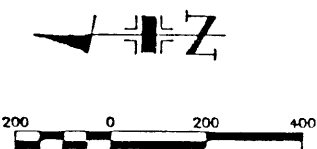
5 MODIFIED CHANNEL - channelized, eroded (earth bottom)
- 6 OPEN WATER - ponds, reservoirs (excludes flowing channel)

7 RIPARIAN FOREST - cottonwood and conifers along channel

8 SHRUB WETLAND - willow in and along channel (no tree overstory)

9 PRAIRIE SWALE - low lying grassy and weedy depressions along drainages

BASED ON THE REACHES/CULVERTS LISTED ON THIS SHEET, APPROXIMATELY 4.7 ACRES OF ENVIRONMENTALLY CLASSIFIED AREAS WILL BE DISTURBED OR DESTROYED AND REQUIRE MITIGATION.



LEGEND:

- (H10 75.0) BASIN DESIGNATION

(IOL) BASIN AREA (AC.)

(IOL) DESIGN POINT

MAJOR BASIN BOUNDARY
- SUB-BASIN BOUNDARY

CITY LIMITS

EXISTING STORM SEWER

PROPOSED STORM SEWER

- EXIST. CROSS CULVERT OR BRIDGE

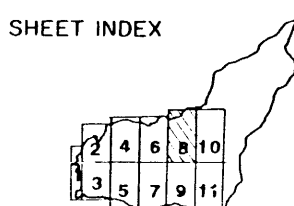
PROP. CROSS CULVERT OR BRIDGE

EXIST. BANK LINING WITH NO CHANGE

EXIST. BANK LINING INCREASE DEPTH
- PROPOSED BANK LINING

PROPOSED DROP STRUCTURE

ENVIRONMENTAL CLASSIFICATION



MAPPING:  
LANDMARK MAPPING

ENGINEER:  
**URS**  
CONSULTANTS  
MAKING TECHNOLOGY WORK  
1040 SOUTH EIGHTH STREET  
CITY OF DENVER, COLORADO 80202  
(719) 634-8899

PROJECT:  
COTTONWOOD CREEK DRAINAGE BASIN PLANNING STUDY  
DRAINAGE PLAN  
SCALE 1"=200'  
FIGURE 15

CONTOUR INTERVAL=2'  
SHEET 8 OF 11