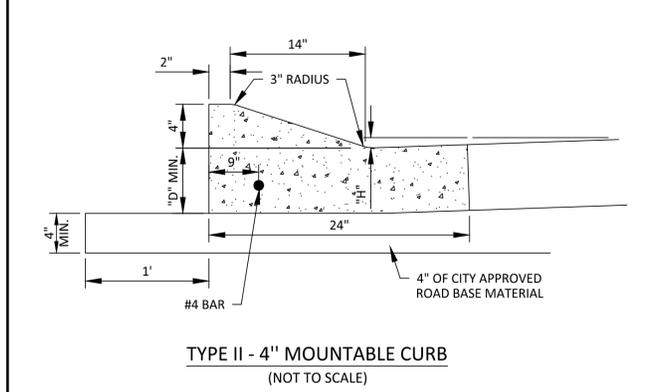
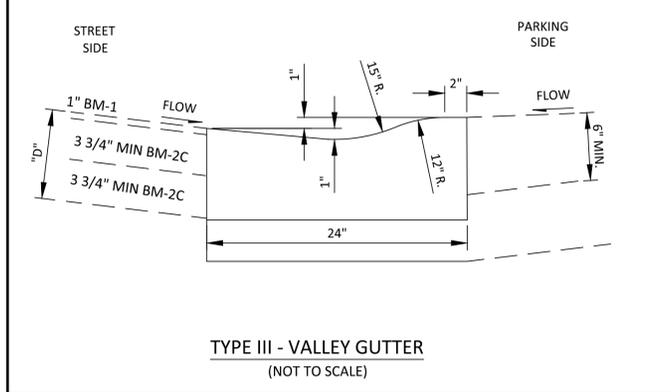


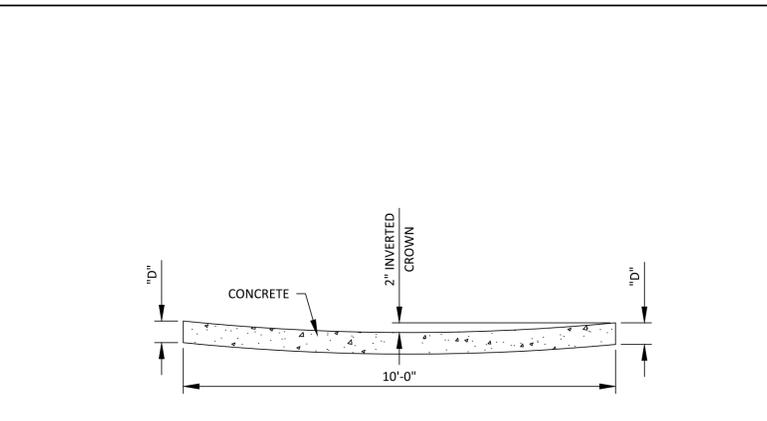
**TYPE I - 6" BARRIER CURB**  
(NOT TO SCALE)



**TYPE II - 4" MOUNTABLE CURB**  
(NOT TO SCALE)

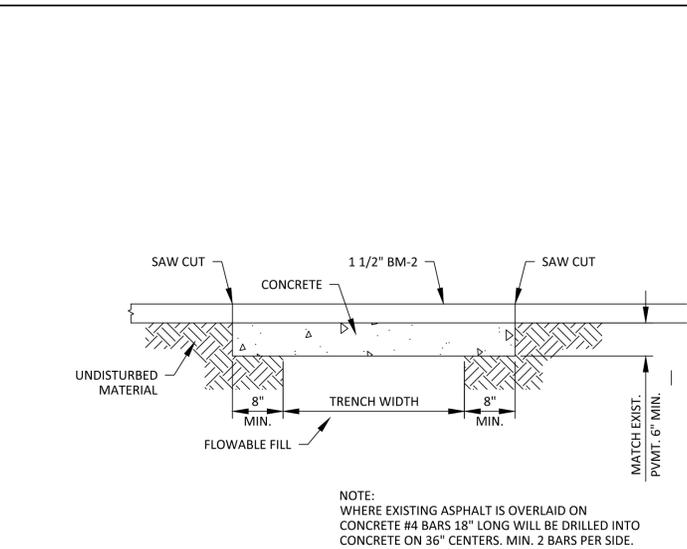


**TYPE III - VALLEY GUTTER**  
(NOT TO SCALE)



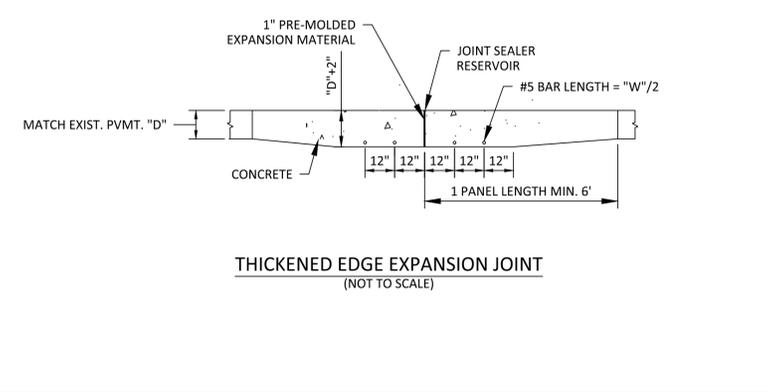
**TYPE IV - VALLEY GUTTER SECTION**  
(NOT TO SCALE)

NOTE:  
TYPE IV VALLEY GUTTER SHALL NOT BE USED IF LONGITUDINAL SLOPE DOES NOT EXCEED 1%.

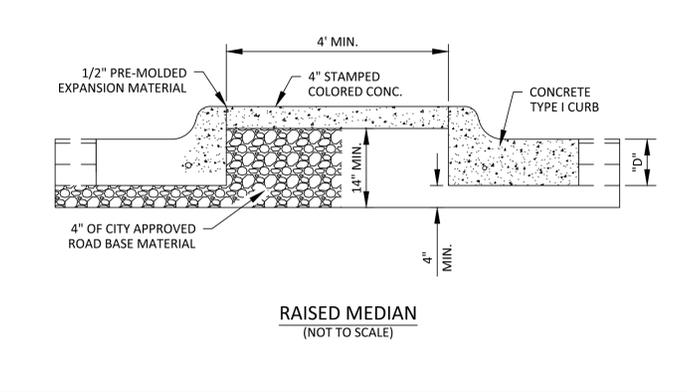


**ASPHALT PATCH REPLACEMENT**  
(NOT TO SCALE)

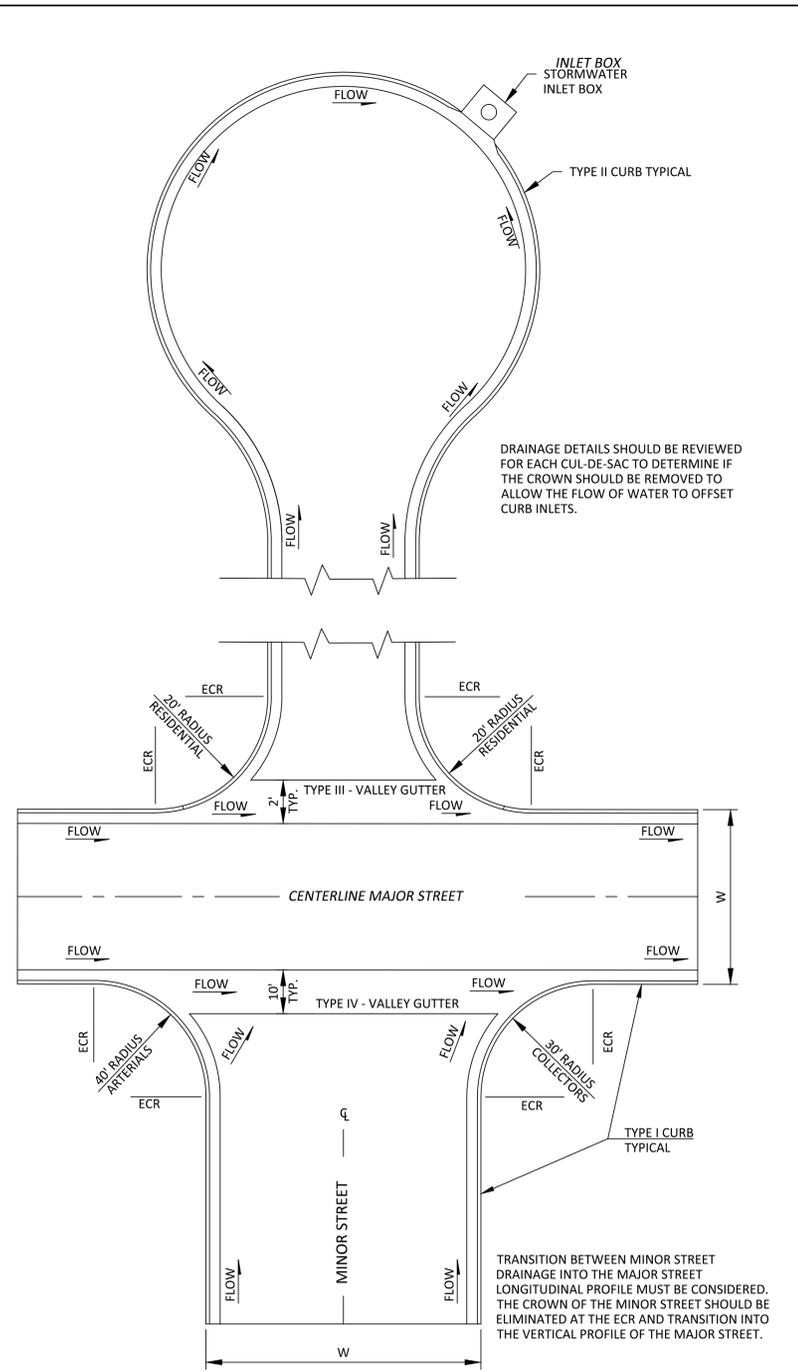
NOTE:  
WHERE EXISTING ASPHALT IS OVERLAID ON CONCRETE #4 BARS 18" LONG WILL BE DRILLED INTO CONCRETE ON 36" CENTERS. MIN. 2 BARS PER SIDE.



**THICKENED EDGE EXPANSION JOINT**  
(NOT TO SCALE)



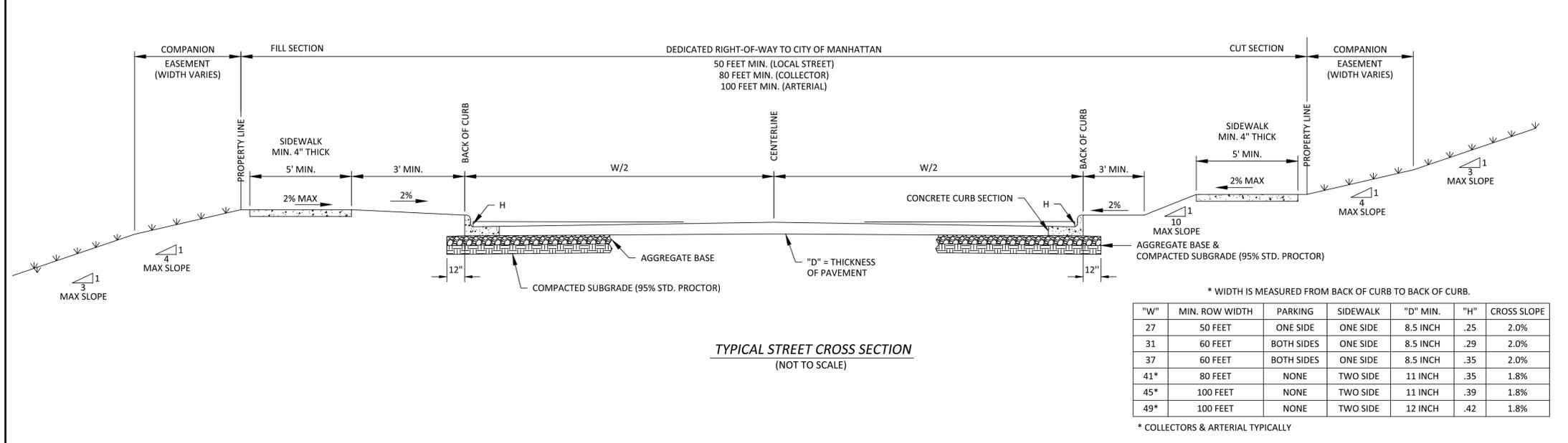
**RAISED MEDIAN**  
(NOT TO SCALE)



**TYPICAL LAYOUT FOR BITUMINOUS ASPHALT PAVEMENT**  
(NOT TO SCALE)

DRAINAGE DETAILS SHOULD BE REVIEWED FOR EACH CUL-DE-SAC TO DETERMINE IF THE CROWN SHOULD BE REMOVED TO ALLOW THE FLOW OF WATER TO OFFSET CURB INLETS.

TRANSITION BETWEEN MINOR STREET DRAINAGE INTO THE MAJOR STREET LONGITUDINAL PROFILE MUST BE CONSIDERED. THE CROWN OF THE MINOR STREET SHOULD BE ELIMINATED AT THE ECR AND TRANSITION INTO THE VERTICAL PROFILE OF THE MAJOR STREET.



**TYPICAL STREET CROSS SECTION**  
(NOT TO SCALE)

\* WIDTH IS MEASURED FROM BACK OF CURB TO BACK OF CURB.

"W"	MIN. ROW WIDTH	PARKING	SIDEWALK	"D" MIN.	"H"	CROSS SLOPE
27	50 FEET	ONE SIDE	ONE SIDE	8.5 INCH	.25	2.0%
31	60 FEET	BOTH SIDES	ONE SIDE	8.5 INCH	.29	2.0%
37	60 FEET	BOTH SIDES	ONE SIDE	8.5 INCH	.35	2.0%
41*	80 FEET	NONE	TWO SIDE	11 INCH	.35	1.8%
45*	100 FEET	NONE	TWO SIDE	11 INCH	.39	1.8%
49*	100 FEET	NONE	TWO SIDE	12 INCH	.42	1.8%

\* COLLECTORS & ARTERIAL TYPICALLY

- NOTES:
- ASPHALTIC PAVEMENT SHALL BE OF A HOT MIX TYPE.
  - ASPHALTIC PAVEMENT SHALL CONSIST OF THE FOLLOWING:
    - 2 BASE LAYERS CONSISTING OF BM-2C A MINIMUM OF 3 3/4" IN THICKNESS.
    - 1 SURFACE WEAR LAYER CONSISTING OF BM-1 A MINIMUM OF 1" IN THICKNESS.
  - THE SURFACE OF EACH LAYER SHALL BE ROLLED SEPARATELY TO THE ENGINEERS SPECIFIED COMPACTION.
  - EACH BASE LAYER SHALL HAVE A TACK COAT APPLIED PER MANUFACTURERS RECOMMENDATION AND SHALL BE APPLIED TO A CLEAN DRY SURFACE.

NO.	DATE	DESCRIPTION	BY
<p><b>City of Manhattan Kansas</b> PUBLIC WORKS 1101 POYNTZ AVE., MANHATTAN, KS 66502 (785) 587-2415</p>			
<p><b>MANHATTAN STANDARD DETAILS</b> <b>MSD 2620 ASPHALT PAVING DETAILS</b></p>			
CITY ENGINEER: BRIAN JOHNSON, P.E. DESIGN BY:			
CITY PROJ. #:			
DATE:	DRAWN BY:	PAGE	OF