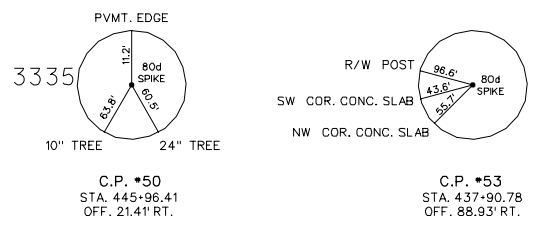
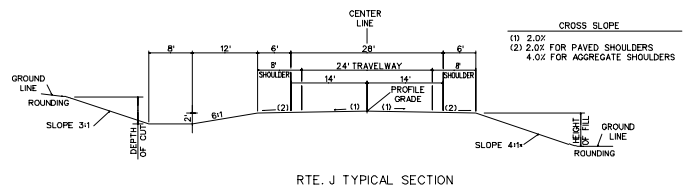


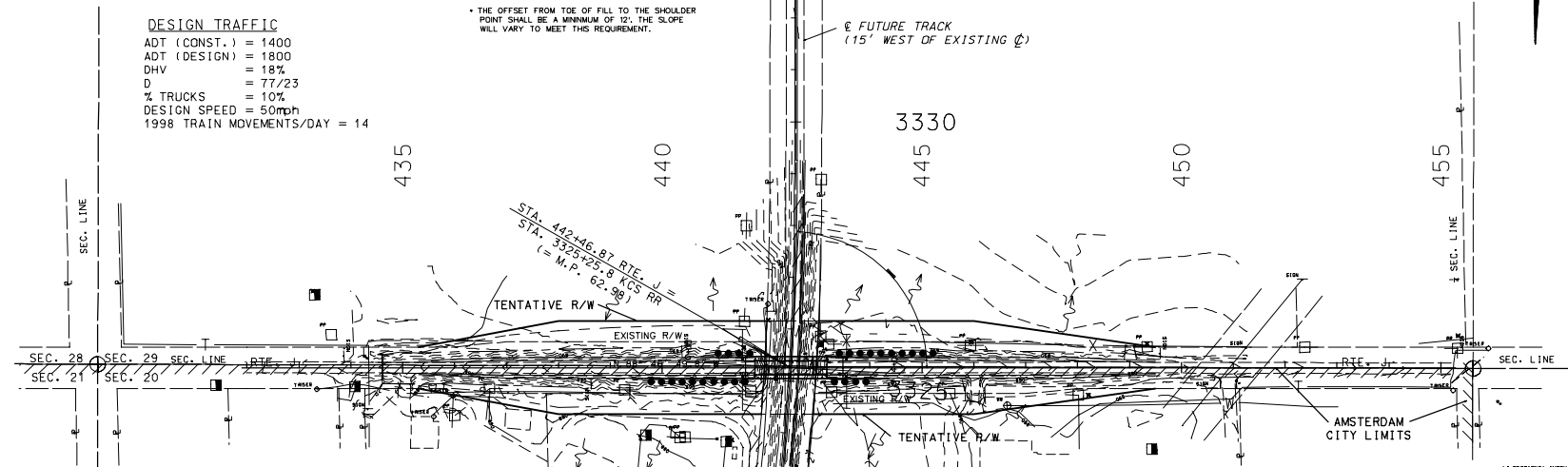
Example Bridge Survey Plat

BR105S2



DESIGN TRAFFIC
 ADT (CONST.) = 1400
 ADT (DESIGN) = 1800
 DHV = 18%
 D = 75/23
 % TRUCKS = 10%
 DESIGN SPEED = 50mph
 1998 TRAIN MOVEMENTS/DAY = 14

* THE OFFSET FROM TOE OF FILL TO THE SHOULDER POINT SHALL BE A MINIMUM OF 12'. THE SLOPE WILL VARY TO MEET THIS REQUIREMENT.



- SHOW ON PLAT**
- Vertical curves (unless otherwise noted) shall be shown as they appear on the ground.
 - Changes of stationing for proposed roads and bridges shall be shown as they appear on the ground.
 - Direction of flow.
 - Angle of slope roads with center line proposed roadway and proposed drainage.
 - Location of existing and proposed roads, and the stationing on proposed roads.
 - Location of proposed bridge with general dimensions of spans.
 - Location of proposed bridge with stationing of proposed center of each span.
 - Location and stationing of any structures which influence the drainage of the proposed roads and bridges.
 - Proposed change of centerline. Make survey of this and submit profile of same.
 - Small details of face markings showing approximate course of stream and rock, and location of proposed bridge.
 - Location, elevation and centerline of the proposed bench marks.
 - Proposed drainage, and also reference points and lines on each side of stream.
 - Notes of utility location, and also reference points and lines on each side of stream.
 - Location of valley location, and also proposed profile.

BR. X-757 (EXIST. STRUCTURE)
 STA. 442+46.85 ±
 (42'-52'-42') CONT. COMP. 1-BMS
 24' ROADWAY

PROPOSED DRAIN BASIN LOCATIONS
 STA. 441+54.00 LT. & RT. SHOULDERS
 STA. 443+54.00 LT. & RT. SHOULDERS

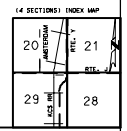
NOTE: GUARD CABLE WILL BE INSTALLED WHERE HIGHWAY R/W ABUTS KCS R/W.

Proposed Structure:
 Beg. Sta.: 441+60.62
 Tie Sta.: 442+17.87 @ E. Bt. 2

DRAINAGE (to be verified) (11/20/2001)

BENCH MARKS

- B.M. #3 - CHISEL SQUARE ON TYPE S CURB, W. SIDE C.E., N. SIDE RTE. J, 0.2 MILE W/D RR BR. (RT. 26') STA. 451+06 ELEV. 887.04
- B.M. #6 - CHISEL SQUARE ON TYPE S CURB, W. SIDE ENT., S. SIDE RTE. J OPPOSITE BENTON ST., 0.2 MILE E/D RR BR. (LT. 22') STA. 434+27 ELEV. 884.81



REVISED 11/20/2001
 SHEET 1 OF 5

Missouri State Highway
 KANSAS CITY SOUTHERN RAILROAD

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION REPORT OF BRIDGE SURVEY
 SEC. 20 & 29 T. 41 N. R. 33 W.
 ROUTE J - BATES COUNTY
 SURVEY MADE BY DAVID WOODWARD 99.
 PREPARED BY
 CHECKED BY Transportation Project Manager
 PROJ. NO. 442+4T STA. 442+4T
 JOB NO. J750649 BRIDGE NO. A6244