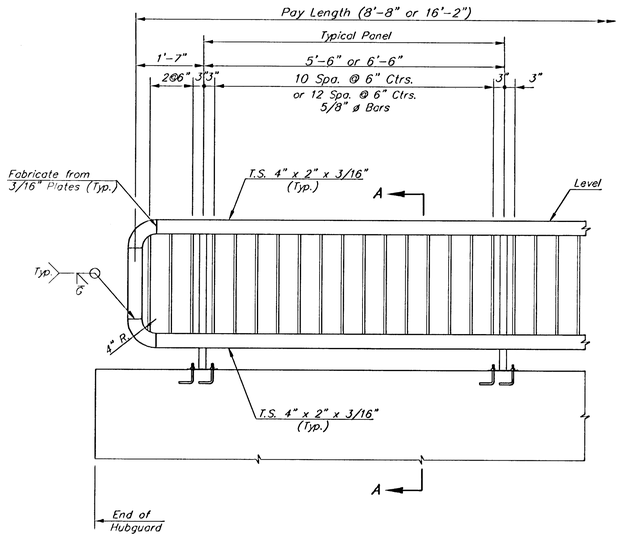
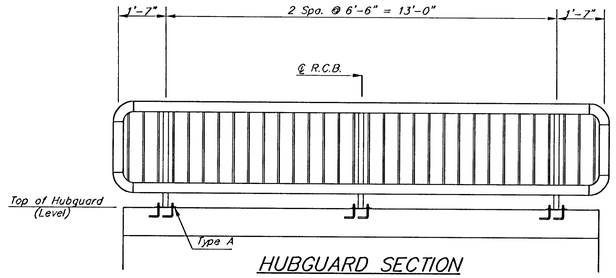
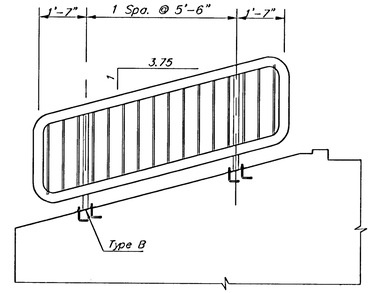


HANDRAIL ELEVATION



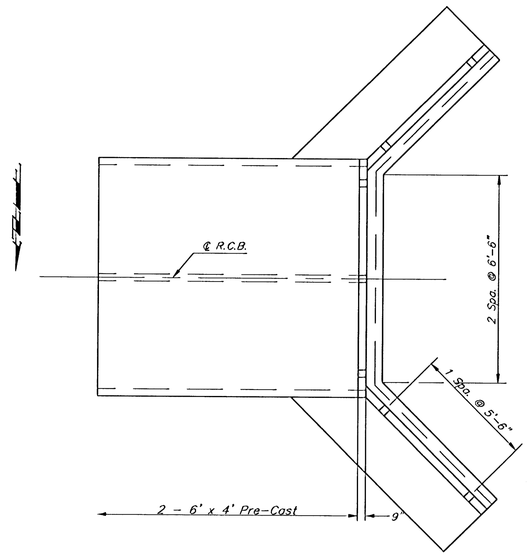
HUBGUARD SECTION

(2 Required)



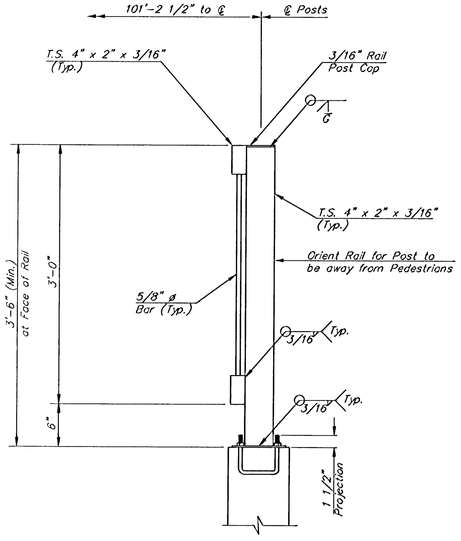
HANDRAIL ELEVATION

(4 Required)



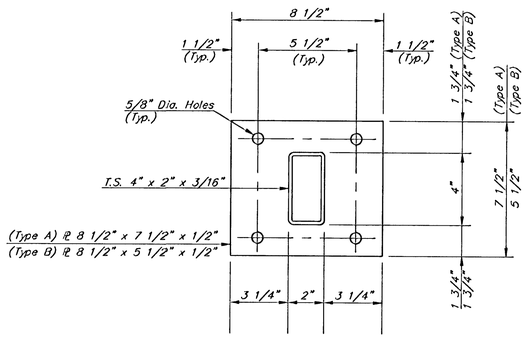
RAIL LOCATION PLAN

1" = 30'



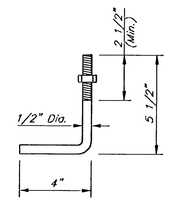
SECTION A–A

Note:
Rail Post on Hubguard shown,
Rail Posts on Wingwalls not shown
but similar controlling criteria.



BASE PLATE

6 Required (Type A)
8 Required (Type B)



Galvanized (ATSM A153)

(May Substitute expandable anchor bolts when approved by the Engineer)

ANCHOR BOLT

Orient to provide min. 2" edge clearance to either hubguard face or adjacent bolts)

GENERAL NOTES

The horizontal members of the rail and posts shall be hollow structural tubing. All structural steel and tubing shall comply to A.S.T.M. Designation A36 or A500 Grade B respectively.

Rail shall be fabricated in lengths as shown.

Posts and bars shall be set vertical and shimmed if required.

The handrail shall be painted shop and field with an inorganic zinc–vinyl paint system complying with the Standard Specifications for State Road and Bridge Construction, 1990 Edition Kansas Department of Transportation.

Material and construction shall conform to the Structural Welding Code A.W.S. D1.1–88.

Shop details must be submitted and approved by the Engineer.

CITY OF WICHITA

HANDRAIL DETAILS

CHRISTOPHER M. CARRIER, P.E.
STORM WATER ENGINEER

PROJECT NUMBER	OCA NO.
472-83681	765778
DATE	SHEET 26 OF 48
MAY 2003	