NOTES:

All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

All joints in rail shall be spliced per detail.

Provide 1 - 1/8" and 2 - 1/16" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.

Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.

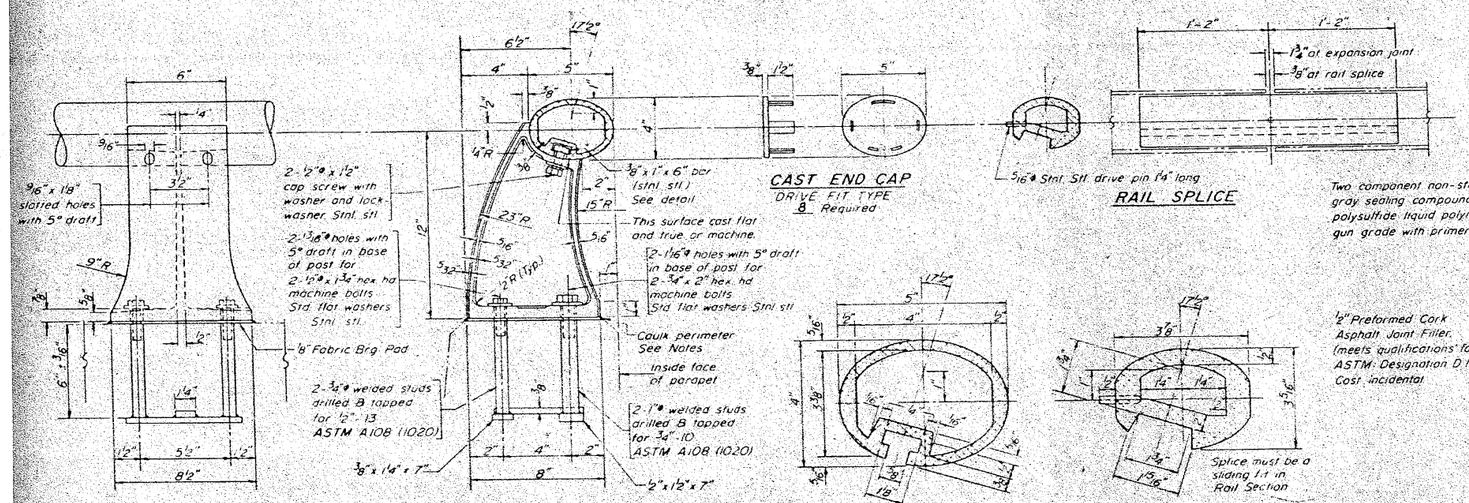
Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min. tensile 38 ksi, and elongation of 10% in 2 inches.

METHOD OF MEASUREMENT: Aluminum handrail shall be measured in lineal feet. The length paid for shall be the overall length along the top longitudinal railing member thru all posts and gaps.

BASIS OF PAYMENT: Aluminum handrail shall be paid for at the contract unit price per lineal foot for ALUMINUM RAILING, measured as specified which price shall be payment in full for all materials, fabrication, transportation and erection.

Cost of rail splice, end caps and hardware to be incidental to item ALUMINUM RAILING.

Provide 1 1/8" and 2 1/16" Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade - high spots shall be ground and low spots shimmed.



ALUMINUM RAILING

For quantities see Sheet No. 17

R-17 4-22-68 9-18-69

REVISIONS		
DATE	BY	DESCRIPTION

DEPARTMENT OF HIGHWAYS
COOK COUNTY, ILLINOIS

GEORGE W. DUNNE, PRESIDENT BOARD OF COMMISSIONERS — THOMAS G. COTS, SUPERINTENDENT OF HIGHWAYS

ALUMINUM RAILING DETAILS
STONY ISLAND EXPRESSWAY GRADE SEPARATION OVER 103RD STREET

COMPUTED ..... PROJECT EBU-246(44)
CHECKED ..... SUBMITTED 28 May 1970
DRAWN
CHECKED A. KLETCHANEK — STRUCTURAL DESIGN ENGINEER

EXAMINED 5/29/70 — CHIEF ENGINEER OF DESIGN

Federal Aid Route	County Highway Section Number	Sheet No.	Total Sheets	Drawing No.
122	174-1515.2-C.F. 176-1515.2-C.F.	18	34	S.1-152-S

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

USER NAME =	DESIGNED -	REVISED -
	CHECKED - BAK	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 03/29/2013	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (FOR INFORMATION ONLY)
STRUCTURE NOS. 016-2441 & 016-2442
SHEET NO. S-30 OF S-31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2012-059-BR	COOK	631	586

CONTRACT NO. 60J12
ILLINOIS FED. AID PROJECT

S:\0720\05_CADD\Structural\SN 0162441,2442\CADD Sheets\0162441-2442-60J12-038-FY13.dgn 3/29/2013 2:56:10 PM