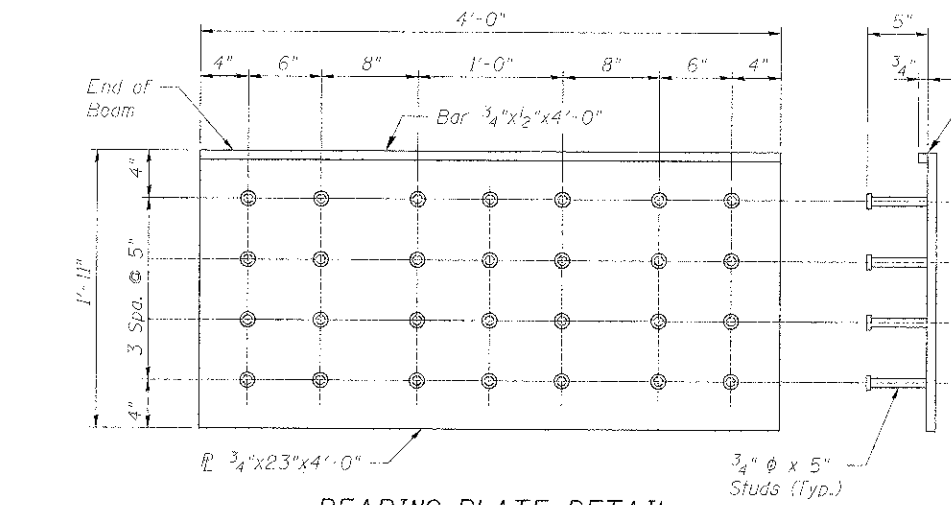
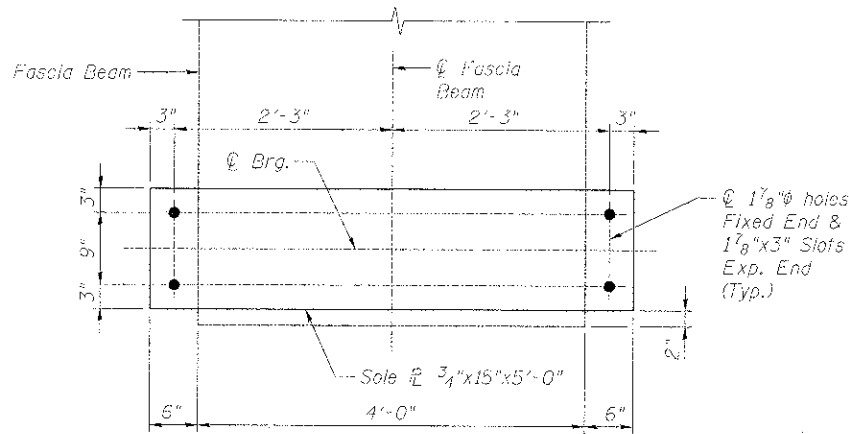


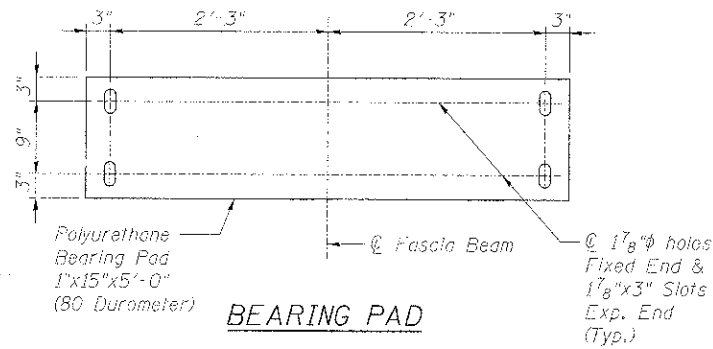
FASCIA BEAM BEARING DETAIL



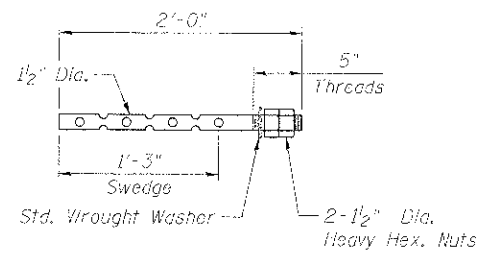
BEARING PLATE DETAIL



SOLE PLATE DETAIL



BEARING PAD



ANCHOR BOLT MK. SAB-2

64 Req'd
Est. Wt. = 10.3 L.B. Each

GENERAL NOTES:

Design, materials and construction of prestressed concrete beams shall be in accordance with the Current UPRR Standard Specifications and the current A.R.E.M.A. Manual for Railway Engineering, Chapter 8, Part 17 - Prestressed Concrete Design.

Ultimate compressive cylinder strength of beam concrete shall be not less than 5,000 p.s.i. at transfer of prestressing force, and 6,000 p.s.i. in 28 days.

Ultimate compressive cylinder strength of curb concrete shall be not less than 3,500 p.s.i. in 28 days.

Concrete shall be air-entrained containing 7% plus or minus 1% air by volume.

Maximum size of coarse aggregate shall be 3/4 inch.

Minimum concrete cover on reinforcement shall be 1/2 inches, except as noted.

All exposed edges shall be chamfered 3/4 inch.

All prestressing strands shall be 1/2" ϕ , 7 wire uncoated, low-relaxation, with minimum $f's = 270,000$ p.s.i. and otherwise meeting the requirements of the current A.S.T.M. designation: A416.

Initial prestress shall be 0.75 $f's = 31,000$ lbs. per strand.

Non-prestressing reinforcement shall be deformed bars meeting the current A.S.T.M. designation: A515, Grade 60. Fabrication of reinforcing steel shall be as per Chapter 7 of the current C.R.S.I. Manual of Standard Practice.

Dead Load: (Assumed - lbs. per lin. ft. of Beam)

Curb and Bridge Fence Railing	135
Beams	2100
Total Dead Load	2235

Live Load: 100 psf over walkway width.

Impact: Not Used.

SPECIAL NOTES TO MANUFACTURER:

Production procedures and dimensional tolerances for the manufacture of precast, prestressed beams shall be in accordance with the Prestressed Concrete Institute's current manual MNL-115 for Quality Control.

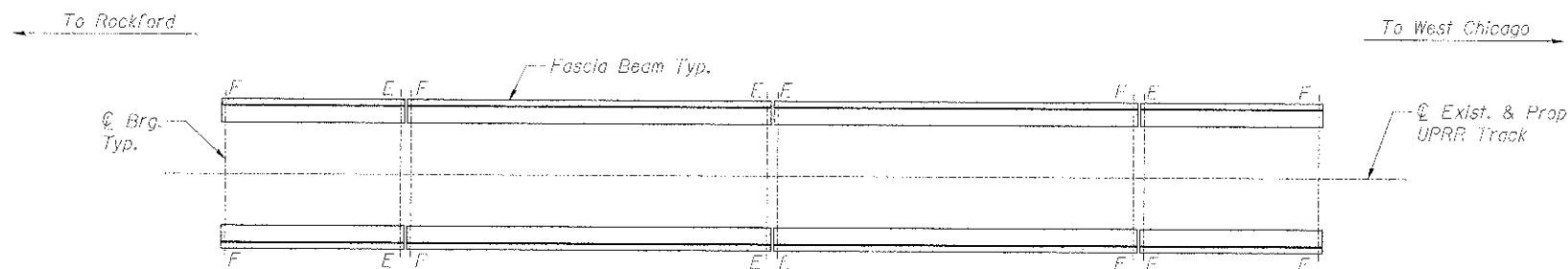
An alternate strand pattern better suited to the manufacturer's facilities, which has the same eccentricity as the pattern shown on this plan will be considered for approval prior to casting upon submission by the manufacturer of plans and computations.

If reinforcing bar supports are used, they shall be Class 1, plastic protected, in accordance with Chapter 3 of the C.R.S.I. Manual of Standard Practice.

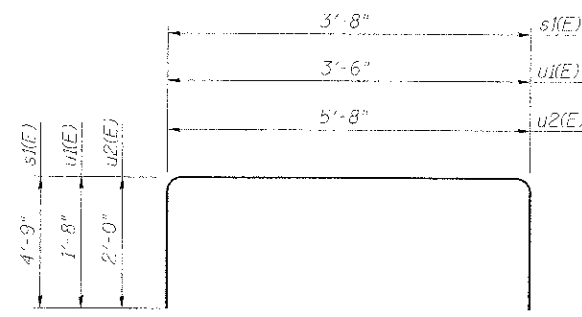
Manufacturer shall cut prestressing strands flush with ends of concrete beams and point.

If lifted with slings instead of lifting loops, slings must not be placed more than 3' 0" from ends of Beams.

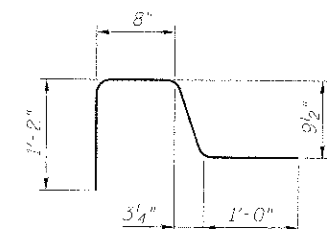
The walk surface on the top side of the Fascia Beam shall receive a non-slip broom finish in the transverse direction of the Beam (perpendicular to Beam length).



LOCATION PLAN



BARS s1(E), u1(E) & u2(E)



BAR s2(E)

benesch
engineers - scientists - planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10074

DESIGNED - JLS	REVISOR -
CHECKED - LRB	REVISOR -
DRAWN - RMG	REVISOR -
CHECKED - LRB	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

M.P. 37.71 BELVIDERE SUBDIVISION - STRUCTURE NO. 045-3168
FASCIA BEAM DETAILS (3 OF 3)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
361	06-C0214-18-RP	KANE	451	293
CONTRACT NO. 63598			ILLINOIS FED. AID PROJECT	

SHEET NO. UP-33 OF UP-52 SHEETS

X:\1000005\10074\Engineering\Documents\Phase_1\15N_045-3168_UPRR_Bridge\PLANS\Fascia_Beam_Deetails_3.dgn 3/12/19 PM