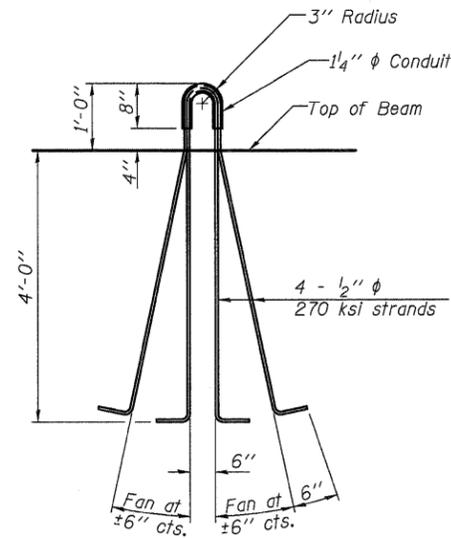
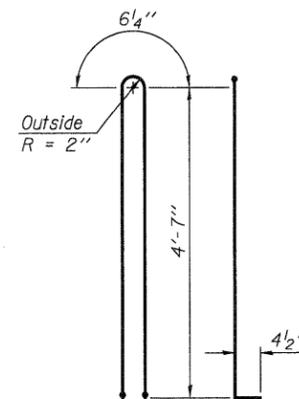


NOTES

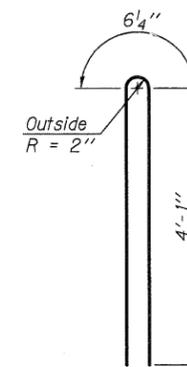
Inserts for $\frac{3}{4}$ " ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.
 Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in.
 Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
 A minimum $2\frac{1}{2}$ " ϕ lifting pin shall be used to engage the lifting loops during handling.
 The top and bottom plates shall be AASHTO M270 Grade 50.
 The bottom plates and studs shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.
 Threaded rods shall be ASTM F 1554 Grade 55.



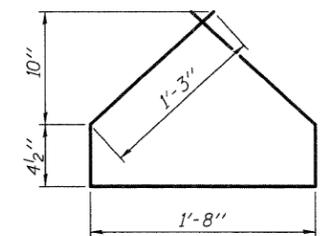
LIFTING LOOP DETAIL



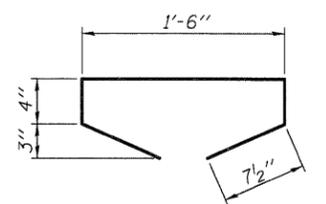
BAR G1



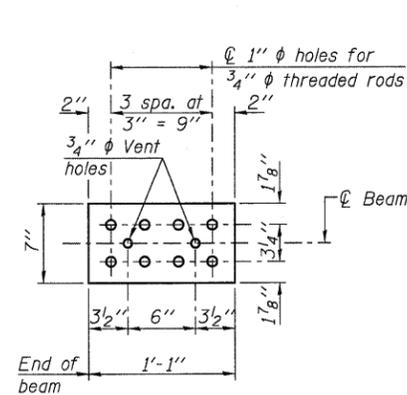
BAR G2



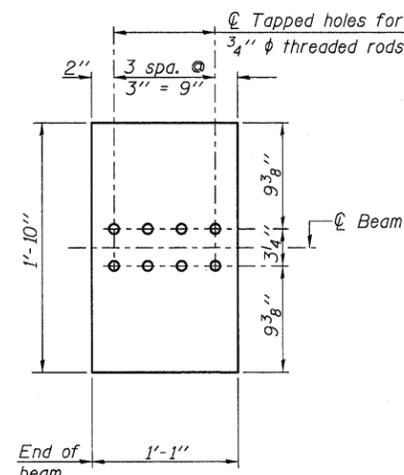
BAR G4



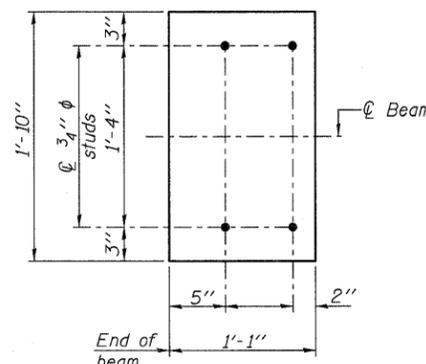
BAR G5



TOP PLATE



BOTTOM PLATE
(Showing threaded rods)



BOTTOM PLATE
(Showing studs)

BILL OF MATERIAL

| Item | Unit | Total |
|---|------|-------|
| Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54" | Ft. | 516.5 |

FILE NAME = P:\ACBBEL\EST Projects\2009\09-0147 ILL73Structural\Drawings\0560091-60I29-016-54.ppc-1-beam.dwg

WBK WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7755

| | | |
|--------------|----------------|-----------|
| USER NAME = | DESIGNED - DLS | REVISED - |
| FILE NAME = | CHECKED - AEU | REVISED - |
| PLOT SCALE = | DRAWN - DLS | REVISED - |
| PLOT DATE = | CHECKED - AEU | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

54" PPC I-BEAM DETAILS
STRUCTURE NO. 056-0091

SHEET NO. 16 OF 22 SHEETS

| | | | | |
|---------------------------|----------------|----------------|--------------------|--------------|
| F.A.P. RTE. 303 | SECTION 1328-2 | COUNTY McHENRY | TOTAL SHEETS 106 | SHEET NO. 61 |
| | | | CONTRACT NO. 60I29 | |
| ILLINOIS FED. AID PROJECT | | | | |