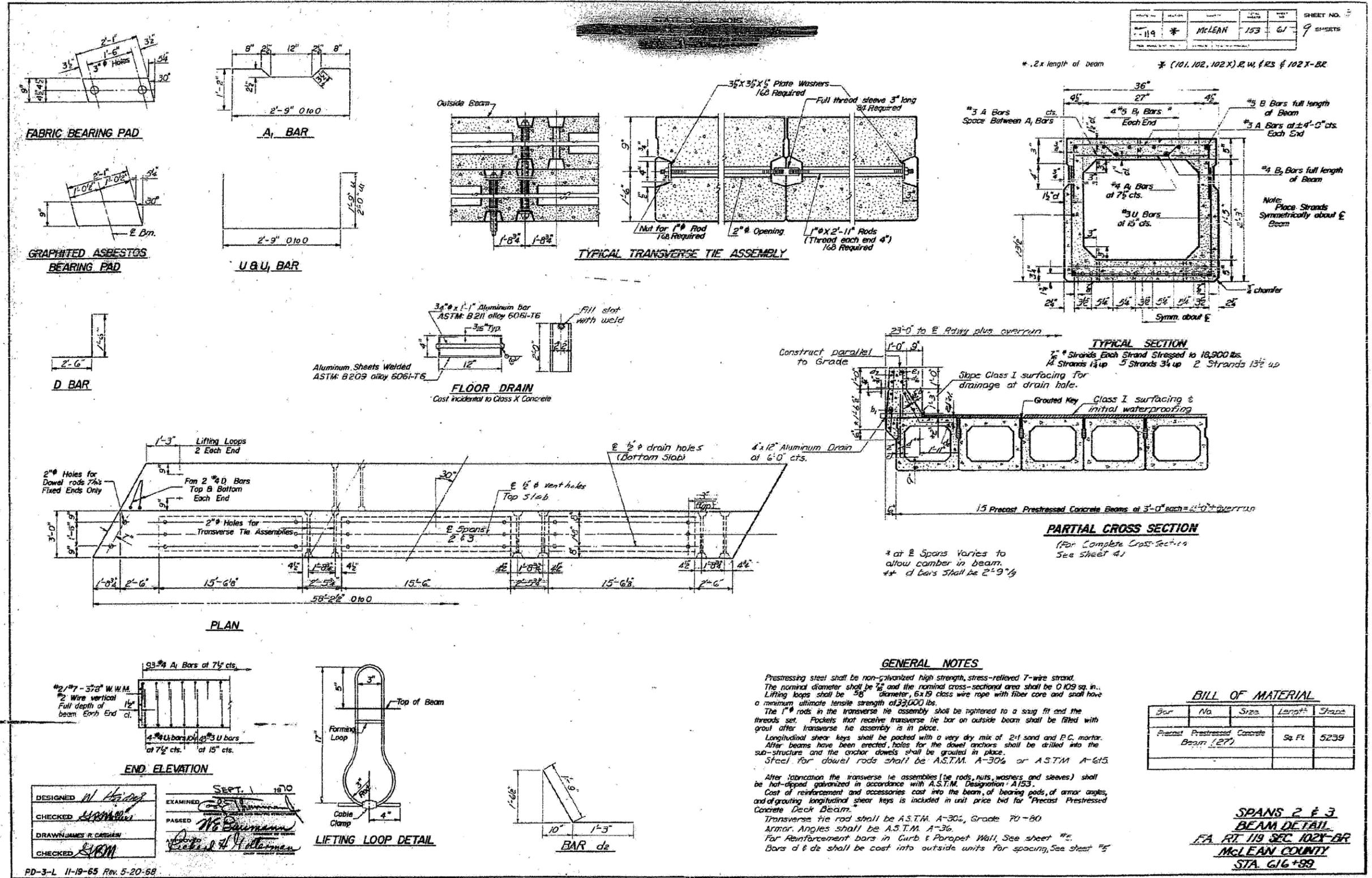


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|---------------------|-----------|---------------------------|--------------|-----------|
| FAP RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 315 | 102X-BR-2 | McLEAN | 44 | 32 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

| | | | |
|------|--------|-------|-----------|
| DATE | BY | SCALE | SHEET NO. |
| 11-9 | McLEAN | 1/32" | 9 |



GENERAL NOTES

Pressing steel shall be non-galvanized high strength, stress-relieved 7-wire strand. The nominal diameter shall be 7/8" and the nominal cross-sectional area shall be 0.109 sq. in. Lifting loops shall be 5/8" diameter, 6x19 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 33,000 lbs.

The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside beam shall be filled with grout after transverse tie assembly is in place.

Longitudinal shear keys shall be packed with a very dry mix of 2-1 sand and P.C. mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place.

Steel for dowel rods shall be A.S.T.M. A-306 or A.S.T.M. A-615.

After fabrication the transverse tie assemblies (tie rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with A.S.T.M. Designation A153.

Cost of reinforcement and accessories cast into the beam, of bearing pads, of armor angles, and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beam."

Transverse tie rod shall be A.S.T.M. A-306, Grade 70-80.

Armor Angles shall be A.S.T.M. A-36.

For Reinforcement bars in Curb & Parapet Wall, See sheet #15.

Bars d & de shall be cast into outside units for spacing, See sheet #5.

BILL OF MATERIAL

| Bar | No. | Size | Length | Spans |
|--|-----|------|---------|-------|
| Precast Prestressed Concrete Beams (127) | | | Sq. Ft. | 5239 |

DESIGNED *W. Harding*
CHECKED *W. Harding*
DRAWN *JAMES R. CARLSON*
CHECKED *SRM*

EXAMINED *W. B. Baumann*
PASSED *W. B. Baumann*
DATE *SEPT. 1 1970*

SPANS 2 & 3 BEAM DETAIL
FA. RT. 119 SEC. 102X-BR
McLEAN COUNTY
STA. 616+99