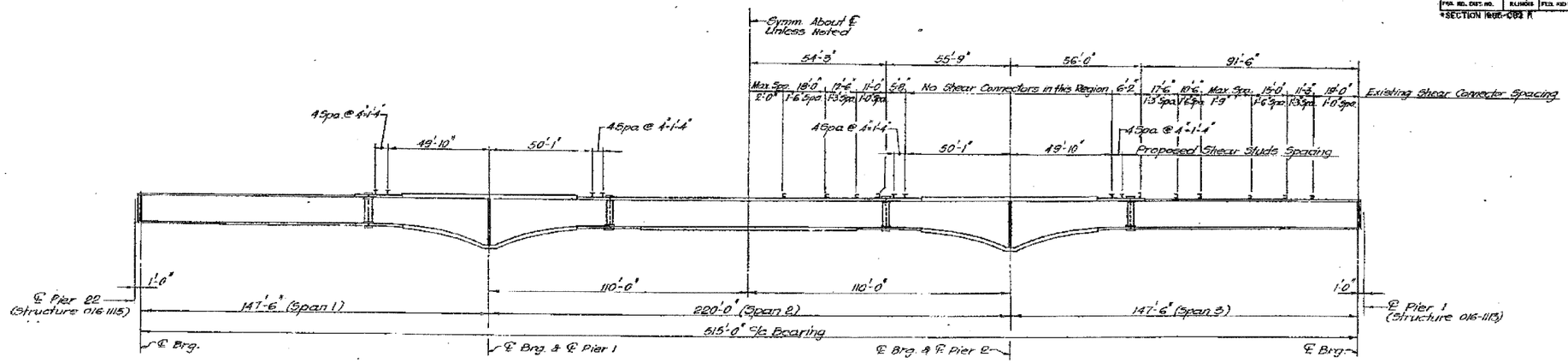
| F.A.I. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 94/90 | 2005-086 I | COOK | 228 | 185 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

60B07

| FEDERAL AID ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 90/94 | 4 | COOK | 15 | 5 |
| STA. | | TO STA. | | |
| FED. RD. DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

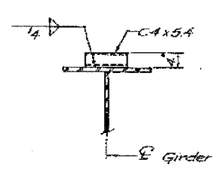
*SECTION 1985-082 R

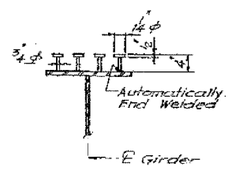


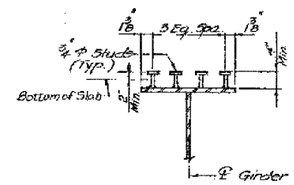

## EXISTING GIRDER ELEVATION
### (SHEAR STUDS PLACEMENT)

**SHEAR CONNECTORS NOTES:**

Damaged Existing Shear Connectors during Slab removal operations are to be replaced by 3/4 φ Studs (See Proposed Shear Studs Detail).
Rows of Replacement Studs are to be located a Minimum of 3" away from the rows of the existing damaged Existing Connectors.




CHANNEL

STUD (ALTERNATE)

## EXISTING SHEAR CONNECTORS DETAILS

## PROPOSED SHEAR STUDS DETAIL
### (FOR NEW ADDITIONAL & REPLACEMENT STUDS)

TOTAL NUMBERS OF 3/4" φ SHEAR CONNECTORS = 7808
(Assuming Complete Replacement)

SHEET F5 OF 15

| REVISIONS | |
|---|---|
| Name | Date |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-082 R COOK COUNTY
STRUCTURE NO. 016-1114, 1066 & 1070
S.B. MAINLINE RECONSTRUCTION
SHEAR CONNECTORS DETAILS
Scale: NONE Drawn By: E.D.
Date: AUGUST 14, 1987 Checked By: SK
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FOR INFORMATION ONLY

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

| REVISIONS | |
|---|---|
| NAME | DATE |

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
DAN RYAN ELEVATED BRIDGE
BEARING REPLACEMENT & STEEL REPAIR
EXISTING PLAN INFORMATION
SN 016-1114, SN 016-1067, SN 016-1070
SCALE: NTS DRAWN BY: LAM
DATE: 5/18/2007 CHECKED BY: BLU

5/24/2007 5:16:36 PM