

| F.A.S. RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO |
|---------------------|---------|----------|------------------|----------|
| 1317 | 109 BRN | KANKAKEE | 58 | 32 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING HEADWALL STA. 260+77.33 (R.L. EL. 307.10)
Existing structure built as S.D.I. Rte. 113, Sec. 107B in 1927
Concrete girder on closed RC abutts.
Contractor shall remove the existing structure, (35'0" L x 28'0" W) and
replace and widen. The existing abutments shall be widened.
Traffic shall be maintained at all times utilizing stage construction.
No salvage.

GENERAL NOTES

All reinforcement bars shall be lapped 2d diameter unless otherwise shown.
It shall be the responsibility of the contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
Expansion joints shall consist of self-drilling expansion anchors and 4 #12 hooked bars.
Shoulder transition to wingwall shall be shaped with broken concrete, cast incidental.
Hooked bars shall extend a minimum of 12" into new concrete except as otherwise shown.
One coat of basic lead silico chromate shop primer shall be used for painting of structural steel.
Limits of Waterproofing Membrane System shall be from two feet beyond floor to expansion end of deck beams and out to out of deck.

ELEVATION

STATION 260+00
BUILT BY
STATE OF ILLINOIS
S.D.I. Rte. 113 SEC. 109 BRN
LOADING H520

NAME PLATE
Std. 2113

PLAN

TOTAL BILL OF MATERIAL

| Item | Unit | Super | Sub | Total |
|---|---------|-------|------|-------|
| Bituminous Concrete Surface Course Class 2 | TON | 17.6 | | 17.6 |
| Concrete Removal | Cu. Yd | 10.8 | | 10.8 |
| Expansion Joints (S.V.) | Each | 20 | | 20 |
| Class 1 Concrete | Cu. Yd | 0.9 | | 0.9 |
| Precast Concrete Bridge Slab | Sq. Ft. | 269 | | 269 |
| Precast Prestressed Concrete Deck Beams (17') | Sq. Ft. | 162 | | 162 |
| Steel Rebaring Top S | Lbs. | 148 | | 148 |
| Reinforcement Bars | Pound | 120 | 2280 | 2400 |
| Removal of Existing Superstructure | Each | 1 | | 1 |
| Waterproofing Membrane System | Sq. Yd | 194 | | 194 |
| Name Plates | Each | 1 | | 1 |
| Perforated Lead Slatting (2x) | Lbs. | 36 | | 36 |
| Perforated Guard Rail | Lbs. | 37 | | 37 |
| Structural Steel | Pound | 2360 | | 2360 |

PROFILE GRADE
S.D.I. Rte. 113

DESIGN STRESSES
FIELD UNITS

$f_c = 14,000$ psi
 $f_s = 20,000$ psi - Reinf.
 $V_c = 10$ psi
 $n = 10$

DESIGNED John A. Morris
CHECKED J. J. Edwards
DRAWN J. J. Edwards
CHECKED J. J. Edwards

APPROXIMATE QUANTITIES

Drainage Area ----- 9.29 Miles
Character ----- rolling, sand, cultivated
Present Opening ----- 200 Sq. Ft.
Required Opening ----- 200 Sq. Ft.
Proposed Opening ----- 200 Sq. Ft.
Gravel ----- 1,660 cu. Yd.

PRECAST PRESTRESSED UNITS

$f_c = 5,000$ psi
 $f_s = 40,000$ psi
 $f_s = 270,000$ psi - 7/8" strands
 $f_s = 180,000$ psi - 1/2" strands

PRECAST UNITS

$f_c = 4,500$ psi
 $f_s = 18,000$ psi
 $f_s = 20,000$ psi
 $n = 8$

Allow 25% for R.I.N.S.
Design Specifications
7101 AA390 (as applicable)
LOADING H520/44

GENERAL PLAN & ELEVATION
S.D.I. Rte. 113 OVER WILEY CREEK
S.D.I. ROUTE 113
SECTION 107BR
KANKAKEE COUNTY
STATION 260+0000

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

EX BR PLANS FOR
INFORMATION ONLY

SCALE: VERT. _____
HORIZ. _____

DRAWN BY _____
CHECKED BY _____