

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------|-------------------|--------------|-----------------|--------------|
| 55 | 2006-032 BY | WILL | 505 | 274 |
| STA. | | TO STA. | | |
| FED. RO. | AD DIST. NO. TILI | NOIS FED. AL | D PROJECT | |

BAR LIST

| | (1-0 | | DOCK | |
|-------|------|------|--------|----------|
| Bar | No. | Size | Length | Shape |
| a(E) | 326 | #5 | 28'-2" | |
| a1(E) | 229 | #5 | 28'-2" | |
| a2(E) | 326 | #6 | 4'-6" | |
| a3(E) | 326 | #5 | 26'-0" | |
| a4(E) | 229 | #5 | 26'-0" | |
| a5(E) | 4 | #5 | 29'-4" | |
| a6(E) | 4 | #5 | 27'-1" | |
| a7(E) | 96 | #5 | 1'-6" | |
| | | | | |
| b(E) | 480 | #5 | 25'-0" | |
| bl(E) | 58 | #6 | 31'-6" | |
| b2(E) | 414 | #5 | 22'-5" | |
| b3(E) | 116 | #6 | 29'-9" | |
| | | | | |
| d1(E) | 452 | #5 | 2'-5" | 7 |
| d3(E) | 226 | #4 | 3'-8" | Ę |
| d4(E) | 226 | #5 | 3'-8" | <u> </u> |
| | I | | | |

| AR I | L <i>IST</i> |
|------|--------------|
| Each | Parapet |

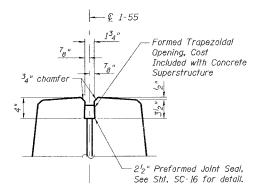
| | | 20011 7 | | |
|--------|-----|---------|---------|-------|
| Bar | No. | Size | Length | Shape |
| d(E) | 226 | #5 | 3′-8" | |
| d2(E) | 226 | #4 | 3′-8" | |
| | | | | |
| e(E) | 12 | #4 | 15'-3" | |
| e1(E) | 12 | #4 | 19'-8" | |
| e2(E) | 24 | #4 | 4′-8" | |
| e3(E) | 12 | #4 | 4'-11" | |
| e4(E) | 36 | #4 | 14'-1" | |
| e5(E) | 8 | #8 | 20'-1" | |
| e6(E) | 8 | #8 | 4'-9" | |
| e7(E) | 4 | #8 | 5′-0" | |
| e8(E) | 8 | #8 | 24'-0" | |
| e9(E) | 8 | #5 | 18'-11" | |
| e10(E) | 8 | #5 | 22'-10" | |
| e11(E) | 8 | #5 | 4'-9" | |
| e12(E) | 4 | #5 | 5′-0" | |
| | | | | |
| | | | | |

DECK INSERTS FOR UNDERDECK LIGHTING

2-#5 a7(E) bars at 4" cts. (1'-6" lg.) tied to bottom of

top reinforcement mat. typ.

The cost of installation of inserts for light fixtures, junction boxes and conduits shall be included with Concrete Superstructure.



Concrete Deck

embedded in Deck. See Lighting Plans for

quantities, locations and details.

212" PJS DETAIL

Notes:

- 1. Work this sheet with Shts, SC-12 thru SC-18.
- 2. Reinforcement bars designated (E) shall be epoxy coated. 3. Bars indicated thus, 20x3-#5 etc., indicates 20 lines of bars with 3 lengths per line.
- 4. See Sht. SC-34 for bar splicer details.
- 5. Order a(E), a1(E), a3(E) and a4(E) bars full length. Cut to fit skew and use remainder of bars in opposite end. See Bar Cutting Diagrams this Sheet.

BILL OF MATERIAL

(For Each Deck)

| Item | Unit | Total |
|----------------------------------|---------|--------|
| Concrete Superstructure | Cu. Yd. | 256.9 |
| Bridge Deck Grooving | Sq. Yd. | 1,088 |
| Protective Coat | Sq. Yd. | 1,090 |
| Reinforcement Bars, Epoxy Coated | Pound | 66,620 |
| Bar Splicers | Each | 555 |

BILL OF MATERIAL

(For All Parapets)

| Item | Unit | Total |
|----------------------------------------|---------|--------|
| Preformed Joint Seal 2 ¹ 2" | Foot | 188.5 |
| Concrete Superstructure | Cu. Yd. | 95.8 |
| Protective Coat * | Sq. Yd. | 418 |
| Reinforcement Bars, Epoxy Coated | Pound | 14,640 |
| Name Plates | Each | 2 |
| Conduit Embedded in Structure, | Foot | 377 |
| 2" dia., Galvanized Steel | | |

* Quantity includes top and inside surfaces of parapets.

SHT. SC-15 OF 38 REVISIONS NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION FAI ROUTE 55
US 30 (PLAINFIELD ROAD) TO LILY CACHE SLOUGH
SB & NB 1-55 OVER US RTE. 30, SN. 099-0016 & 099-0017
STA. 587+80.82, SECTION 2006-032 BY
WILL COUNTY

CHECKED BY MJK

DRAWN BY PA

BAR CUTTING DIAGRAMS

16 bars @ 7" cts.

BAR a(E) & a3(E)

11 bars @ 10" cts.

Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.

1'-7"

SECTION H-H

Const. Jts. at piers and adjacent jts., see

Inside Elevation of Parapet for locations.

18" Aluminum sheet ASTM B 209 alloy

3003-H14. Cost included with Concrete

Non-staining gray one component

non-sag elastomeric gun grade

requirements of ASTM C-920,

Type S, Grade NS, Class 25,

Use T. Cost included with

Concrete Superstructure.

Superstructure.

polyurethane sealant meeting the

-For details of expansion joint,

See Shts. SC-16 & SC-17.

-a(E)

--- € Brg. 5½" Measured along € beam.

SECTION G-G

(End of Deck Treatment)

' Preformed Self-

of the Std. Spec. Cost

included with Concrete

Superstructure.

Expanding Cork Joint Filler

according to Article 1051.07

(Optional)

Const. Jt. (Mandatory)

PARAPET JOINT DETAILS

Bridge Approach

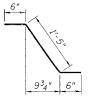
Pavement

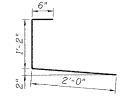
Back of Abut.-

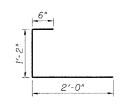
Backer

6" BAR a1(E) & a4(E)

BARS d(E) & d2(E)







BAR d4(E)

BAR dI(E) BAR d3(E)

MORCOM, N.V., INC. CONSULTING ENGINEERS

SCALE:

DECK & PARAPET DETAILS & BAR LISTS

DATE 07/21/06 TENC

SDATES SFILELS SSCALES SUSERS

DATE NAME SCALE NAME PLOT FILE PLOT USER