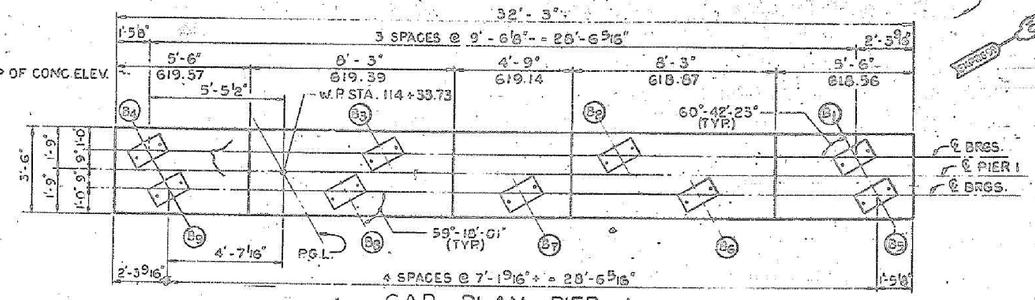
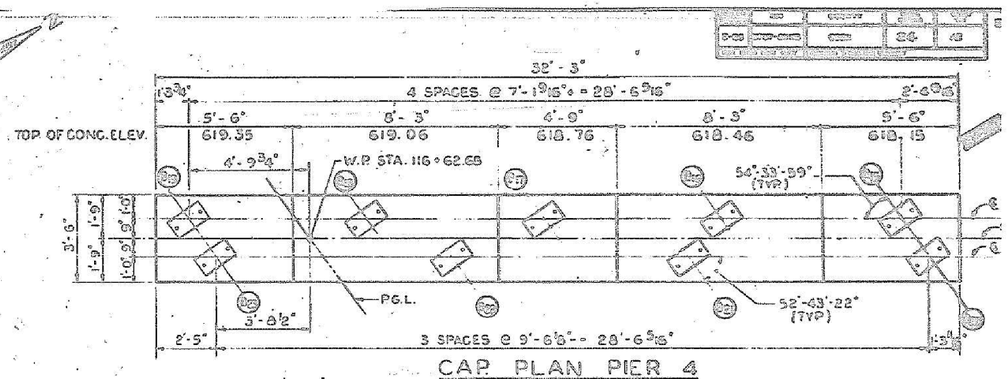


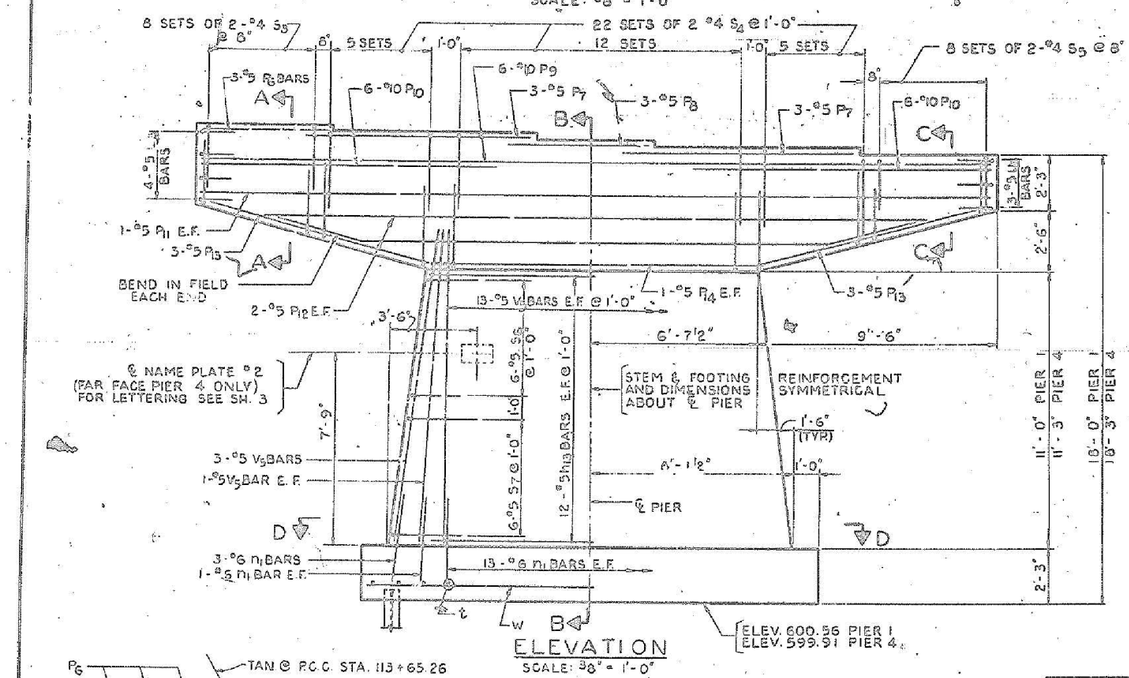

CAP PLAN PIER 1

SCALE: ⅜" = 1'-0"



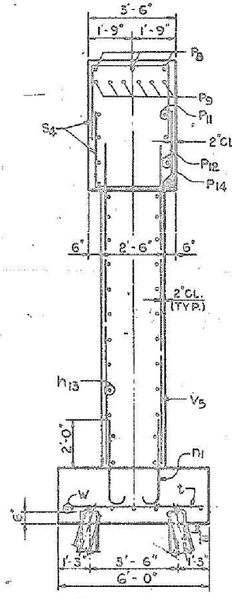

CAP PLAN PIER 4

SCALE: ⅜" = 1'-0"



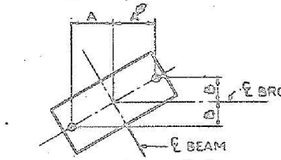

ELEVATION

SCALE: ⅜" = 1'-0"




SECTION B-B

SCALE: ⅜" = 1'-0"




DETAIL "X"

FOR DIMENSIONS A & B SEE TABLE. (NOT TO SCALE).

| LOCATION | BEAM | A | B |
|---|---|---|---|
| PIER 1 | B1 & B4 | 7'9" | 4'4" |
| | B2 & B3 | 6'8" | 3'7½" |
| | B5 THRU B9 | 7'5⅝" | 4'5" |
| PIER 4 | B15 THRU B19 | 7'8" | 5'1⅝" |
| | B20 & B23 | 6'1⅝" | 5'5" |
| | B21 & B22 | 5'9⅛" | 4'4" |

NOTE:

ALL ANCHOR BOLTS TO PROJECT 3" ABOVE FINISHED CONCRETE, EXCEPT 3½" FOR $B_4$ @ PIER 1 & $B_{23}$ @ PIER 4, AND 4¼" FOR $B_5$ @ PIER 1. SPACE REINFORCEMENT IN CAP TO MISS ANCHOR BOLTS.

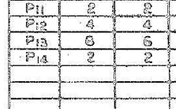
ALL EDGES TO HAVE STD. ¾" CHAMFER EXCEPT AS NOTED.

POUR STEPS MONOLITHICALLY WITH PIER CAP.

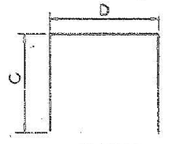
BAR LIST (2 PIER

| BAR | NUMBER PIER 1 | NUMBER PIER 4 | TOTAL | SIZE | LENG |
|---|---|---|---|---|---|
| h13 | 24 | 24 | 48 | 5 | 13'- |
| n1 | 36 | 36 | 72 | 6 | 4'- |
| P6 | 3 | 3 | 6 | 5 | 3'- |
| P7 | 6 | 6 | 12 | 5 | 9'- |
| P8 | 3 | 3 | 6 | 5 | 6'- |
| P9 | 6 | 6 | 12 | 10 | 21'- |
| P10 | 12 | 12 | 24 | 10 | 12'- |
| P11 | 2 | 2 | 4 | 5 | 3'- |
| P12 | 4 | 4 | 8 | 5 | 27'- |
| P13 | 6 | 6 | 12 | 5 | 10'- |
| P14 | 2 | 2 | 4 | 5 | 13'- |
| S3 | 16 | 16 | 32 | 4 | 6'- |
| S4 | 44 | 44 | 88 | 4 | 9'- |
| S5 | 16 | 16 | 32 | 4 | 7'- |
| S6 | 12 | 12 | 24 | 5 | 6'- |
| S7 | 12 | 12 | 24 | 5 | 7'- |
| t | 19 | 19 | 38 | 8 | 5'- |
| W | 7 | 7 | 14 | 5 | 3'- |
| V5 | 36 | 36 | 72 | 5 | 11'- |
| W | 7 | 7 | 14 | 5 | 1'- |

NOTE: ALL BAR DIMENSIONS ARE OUT
PREFIX ALL BAR MARKS FOR S
WITH A NUMBER INDICATING THE PIER
THE BARS WILL BE USED. EXAMPLE:
MEANS BARS $P_8$ TO BE USED FOR

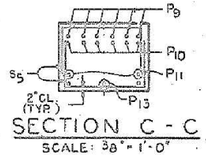



BAR n1




| BAR | C |
|---|---|
| S3 | 2'-7 |
| S4 | 3'-1 |
| S5 | 2'-1 |
| S6 | 2'-6 |
| S7 | 2'-9 |
| U8 | 1'-3 |

BARS $S_3, S_4, S_5, S_6, S_7$ &



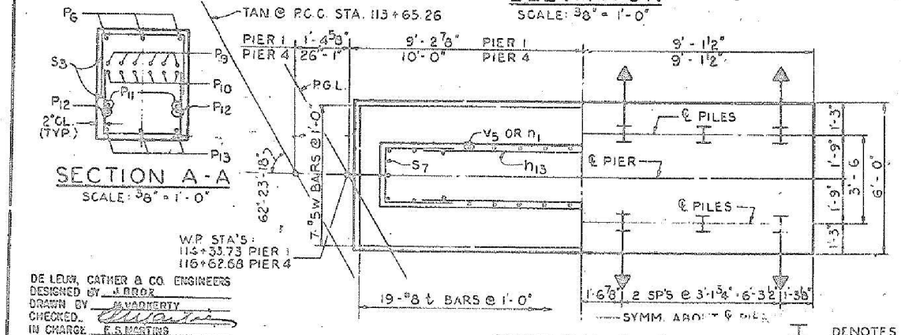

SECTION C-C

SCALE: ⅜" = 1'-0"




SECTION A-A

SCALE: ⅜" = 1'-0"




SECTION D-D

SCALE: ⅜" = 1'-0"

DENOTES BATTER PILE

DE LEUW, CATHER & CO. ENGINEERS
DESIGNED BY J. BROX
DRAWN BY M. VADNERTY
CHECKED
IN CHARGE R. S. MARTINS
APPROVED L. N. RIAN

PILE DATA

| LOCATION | PIER 1 | PIER 4 |
|---|---|---|
| PILE TYPE | 8 BP 36 | 8 BP 36 |
| MIN. CAPACITY, TONS | 30 | 30 |
| NO. REQUIRED | 12 | 12 |
| EST. LENGTH, FEET | 25 | 24 |
| CUT OFF ELEV. | 601.05 | 600.40 |

BILL OF MATERIAL (2 PIERS)

| ITEM | UNIT | QUANTITY PIER 1 | QUANTITY PIER 4 |
|---|---|---|---|
| CLASS X CONCRETE | CU YD | 43.3 | 43.8 |
| REINFORCEMENT BARS | POUND | 3892 | 3892 |
| FURNISHING STEEL PILES 8 BP 36 | LIN FT | 300 | 288 |
| DRIVING STEEL PILES | LIN FT | 300 | 288 |
| NAME PLATE | EACH | 1 | 1 |
| CLASS A EXCAVATION FOR STRUCTURES | CU YD | 29 | 30 |

NOTES:

FOR EMBEDED ELECTRICAL WORK SEE SH. 20.,
FOR WORK POINTS, SEE LOCATION PLAN SH. 13.

ILLINOIS DIVISION OF
SOUTHWEST EXPRES
RAMP "E" O
SOUTHWEST EXPR
PIERS 1 AND

FOR INFORMATION ONLY

benesch
engineers · scientists · planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10093

| | | | |
|---|---|---|---|
| FILE NAME = 0161512_60W77_046_Existing Plans_3.dgn | USER NAME = ksnider | DESIGNED - DMS | REVISED - |
| | | CHECKED - JHG | REVISED - |
| | PLOT SCALE = | DRAWN - KMS | REVISED - |
| | PLOT DATE = 6/23/2014 | CHECKED - JHG | REVISED - |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**EXISTING PLANS (3 OF 7)**
**STRUCTURE NO. 016-1512**
SHEET NO. SBX3 OF SBX7 SHEETS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 373 | (0707-608&611)HB-B | COOK | 177 | 162 |
| | | CONTRACT NO. 60W77 | | |
| | | ILLINOIS FED. AID PROJECT | | |

6/23/2014 10:42:13 AM X:\100009S\100993\Eng_Docs_Phase_II\SN_016_1512_SB_1st_Ave_to_NB_155_over_155\Final\0161512_60W77_046_Existing Plans_3.dgn