

06-17-11 LETTING ITEM 197

FOR INDEX OF SHEETS SEE SHEET 2

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS    | SHEET NUMBER |
|-----------|------------|--------|-----------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87 <del>X</del> | 1            |

\*87+1=88 CONTRACT NO. 60P27

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
DISTRICT ONE  
**PROPOSED HIGHWAY PLANS**

IMPROVEMENT IS LOCATED IN  
THE CITY OF CHICAGO.

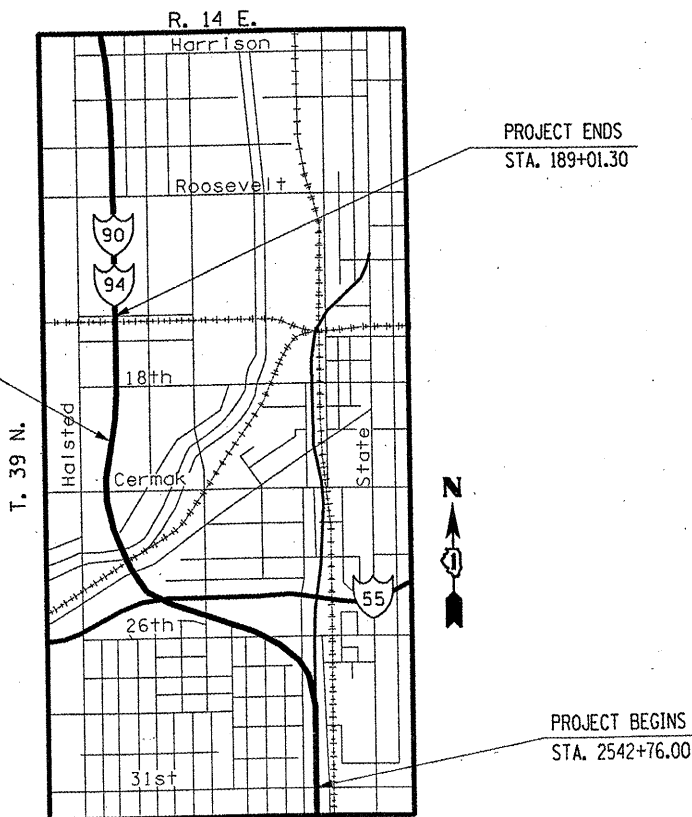
F.A.I. RTE 90/94: I-90/94 (DAN RYAN EXPRESSWAY)  
SECTION 2011-027-I  
MAXWELL ST TO 28<sup>TH</sup> PLACE  
SUBSTRUCTURE REPAIRS & DRAINAGE SYSTEM REPAIRS  
COOK COUNTY  
C-91-498-11

TRAFFIC DATA

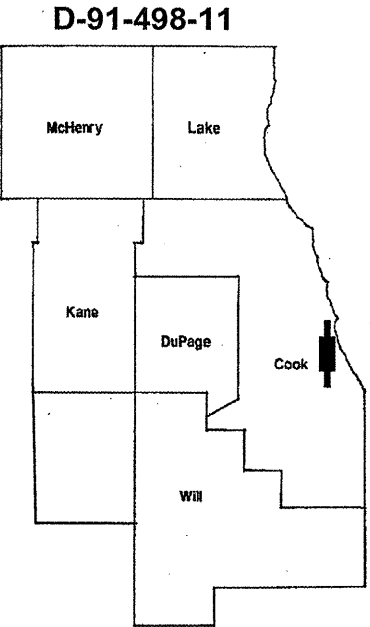
ADT (2009) = 243,000

POSTED SPEED = 50 MPH

BELOW DECK REPAIRS TO  
THE FOLLOWING BRIDGES: (SOUTH TO NORTH)  
SN 016-1118, SN 016-1117  
SN 016-1067, SN 016-1116  
SN 016-1115, SN 016-1062  
SN 016-1046, SN 016-1059  
SN 016-1140, SN 016-1047  
SN 016-1070, SN 016-1050  
SN 016-1066, SN 016-1114  
SN 016-1113, SN 016-1112  
SN 016-1111, SN 016-1110  
SN 016-0137  
(19 TOTAL STRUCTURES)



LOCATION OF IMPROVEMENT  
INDICATED THUS:



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
SUBMITTED: APRIL 11, 2011  
Diane M. O'Keefe *DK*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER  
May 13, 2011  
Scott E. Still *P.E. /a*  
acting ENGINEER OF DESIGN AND ENVIRONMENT  
May 13, 2011  
Christine M. Reed */a*  
DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

C.U.A.N.  
CHICAGO UTILITY ALERT NETWORK  
1-312-744-7000

PROJECT ENGINEER ROBERT BORO (847) 705-4178  
PROJECT MANAGER ISSAM RAYYAN

CONTRACT NO. 60P27

NORTH, SOUTH, & WEST TOWNSHIPS  
GROSS & NET LENGTH OF IMPROVEMENT = 10,487 LIN. FT= 1.986 MILES

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 2            |

CONTRACT NO. 60P27

**INDEX OF SHEET**

| <u>SHEET NO</u> | <u>DESCRIPTION</u>                                                                      |
|-----------------|-----------------------------------------------------------------------------------------|
| 1               | TITLE SHEET                                                                             |
| 2               | INDEX OF SHEETS AND STATE STANDARDS                                                     |
| 3               | GENERAL NOTES                                                                           |
| 4               | SUMMARY OF QUANTITIES                                                                   |
| 5               | VIADUCT KEY PLAN                                                                        |
| 6- 18           | GENERAL PLANS & ELEVATION                                                               |
| 19- 21          | PARTIAL FRAMING PLANS                                                                   |
| 22- 72          | SUBSTRUCTURE REPAIRS                                                                    |
| 73- 85          | DRAINAGE SYSTEM REPAIRS                                                                 |
| 86              | TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17) |
| 87              | ARTERIAL ROAD INFORMATION SIGN (TC-22)                                                  |
| 87A.            | TRAFFIC CONTROL DETAIL (TC-09)                                                          |

**STATE STANDARDS**

| <u>STD NO</u>        | <u>DESCRIPTION</u>                                                     |
|----------------------|------------------------------------------------------------------------|
| 701101-02            | OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE          |
| 701400-05            | APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY                           |
| 701401-06            | LANE CLOSURE, FREEWAY/EXPRESSWAY                                       |
| 701411-07            | LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH |
| <del>701446-02</del> | <del>TWO LANE CLOSURE FREEWAY/EXPRESSWAY</del>                         |
| 701501-06            | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED                                  |
| 701601-07            | URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRANVERSABLE MEDIAN    |
| 701606-07            | URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN                |
| 701801-04            | LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE          |
| 701901-01            | TRAFFIC CONTROL DEVICES                                                |

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
INDEX OF SHEETS AND STATE  
STANDARDS

Rev .

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 3            |

CONTRACT NO. 60P27

**GENERAL NOTES**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N."( CHICAGO UTILITY ALERT NETWORK AT (312)744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE " ARTERIAL ROAD INFORMATION SIGN (TC-22) IS APPLICABLE ONLY TO ARTERIAL ROADS AND SHALL NOT BE APPLIED TO EXPRESSWAYS.

THE CONTRACTOR SHALL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

THE CONTRACTOR SHALL MAINTAIN THE DRAINAGE OF ALL ROADWAYS & BRIDGES DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTORS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, INLETS AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL INSTALLATIONS ARE COMPLETE INCLUDING PAVEMENT. THIS WORK SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT (847)705-4470 FOR ARTERIALS AND (847)705-4151 FOR EXPRESSWAYS, A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

CONTRACTOR SHALL COMPLY WITH ANY CITY OF CHICAGO NOISE ORDINANCE.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BRIDGE INSPECTORS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

THE CONTRACTOR SHALL PROVIDE MANLIFTS TO THE ENGINEER (OR ENGINEER'S DESIGNATED REPRESENTATIVE), AS REQUIRED IN NUMBER AND TYPE, FOR THE ENGINEER'S USE IN INSPECTING THE VARIOUS ASPECTS OF THE CONTRACTOR'S WORK. COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF WORK.

THE CONTRACTOR'S SHALL SCHEDULE ANY PARTIAL OR COMPLETE CLOSURES OF PARKING AND STORAGE AREAS UNDER THE ELEVATED DAN RYAN BRIDGE WHEN BELOW DECK OPERATIONS ARE BEING CONDUCTED. IT'S THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE ANY SUCH CLOSURES WIH THE AFFECTED PARTIES. ANY CONTRACTOR INFLICTED DAMAGES TO VEHICLES AND OTHER PROPERTIES UNDER THE ELEVATED DAN RYAN BRIDGE WILL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION**

**GENERAL NOTES**

| ROUTE       | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-------------|------------|--------|--------------|--------------|
| F.A.I.90/94 | 2011-027-I | COOK   | 87           | 4            |

CONTRACT NO. 60P27

| SUMMARY OF QUANTITIES |                                                                         | CONSTRUCTION TYPE CODE: 0014 |       |  |
|-----------------------|-------------------------------------------------------------------------|------------------------------|-------|--|
| CODE NO.              | DESCRIPTION                                                             | UNITS                        | TOTAL |  |
| 67000400              | ENGINEER'S FIELD OFFICE, TYPE A                                         | CAL MO                       | 6     |  |
| 67100100              | MOBILIZATION                                                            | L SUM                        | 1     |  |
| 70102620              | TRAFFIC CONTROL AND PROTECTION, STANDARD 701501                         | L SUM                        | 1     |  |
| 70102625              | TRAFFIC CONTROL AND PROTECTION, STANDARD 701606                         | L SUM                        | 1     |  |
| 70102630              | TRAFFIC CONTROL AND PROTECTION, STANDARD 701601                         | L SUM                        | 1     |  |
| 70102640              | TRAFFIC CONTROL AND PROTECTION, STANDARD 701801                         | L SUM                        | 1     |  |
| X7011015              | TRAFFIC CONTROL AND PROTECTION, (EXPRESSWAYS)                           | L SUM                        | 1     |  |
| XX001782              | BRIDGE DRAINAGE SYSTEM REPAIRS                                          | FOOT                         | 989   |  |
| Z0012754              | STRUCTURAL REPAIR OF CONCRETE<br>(DEPTH EQUAL TO OR LESS THAN 5 INCHES) | SQ FT                        | 8100  |  |
| Z0012755              | STRUCTURAL REPAIR OF CONCRETE<br>(DEPTH GREATER THAN 5 INCHES)          | SQ FT                        | 191   |  |
| Z0026346              | NIGHTTIME WORK ZONE LIGHTING                                            | L SUM                        | 1     |  |
| Z0030850              | TEMPORARY INFORMATION SIGNING                                           | SQ FT                        | 102.8 |  |
| Z0048665              | RAILROAD PROTECTIVE LIABILITY INSURANCE                                 | L SUM                        | 1     |  |
| Z0073200              | TEMPORARY SHORING AND CRIBBING                                          | EACH                         | 7     |  |

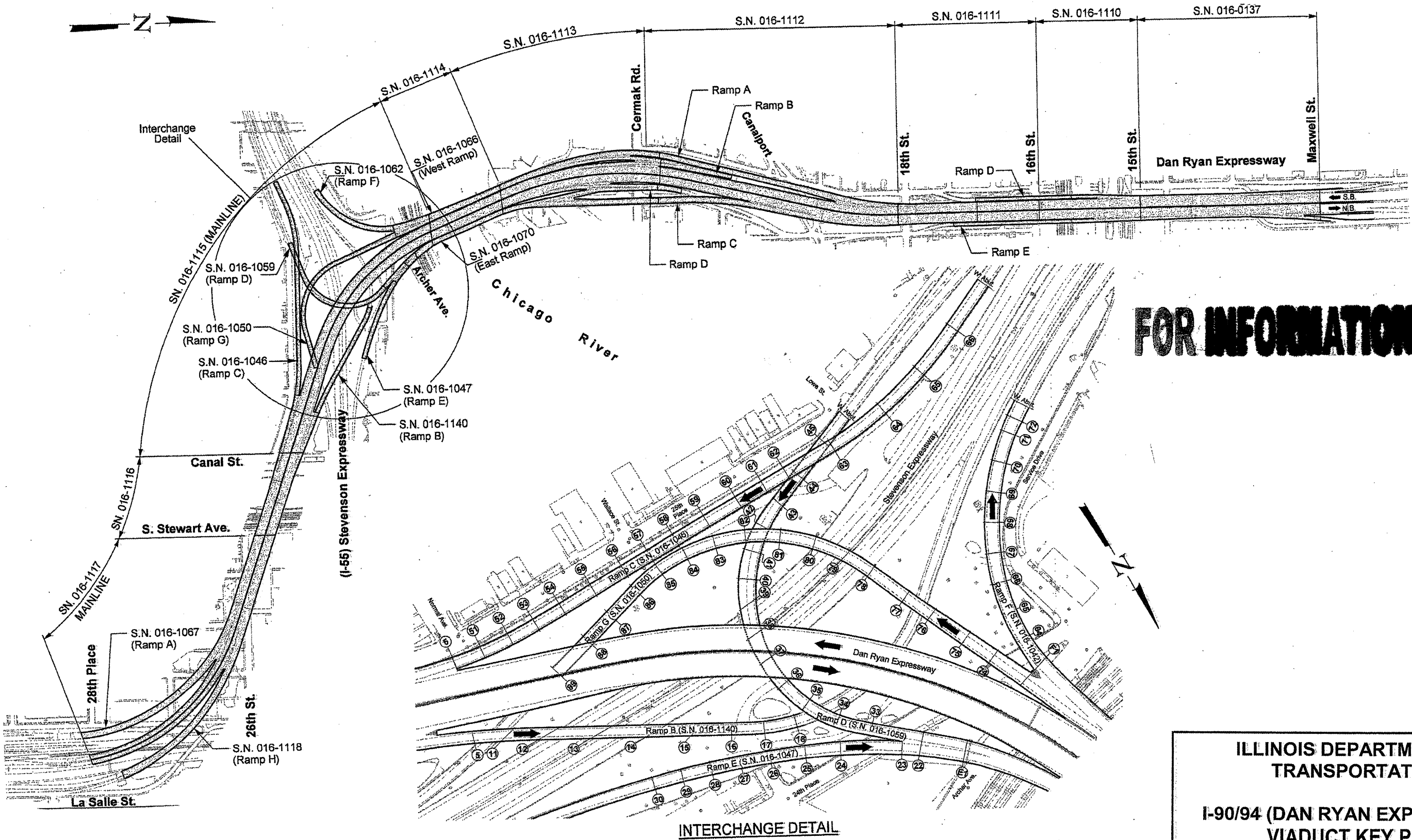
Rev.

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
SUMMARY OF QUANTITIES



| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 5            |

CONTRACT NO. 60P27

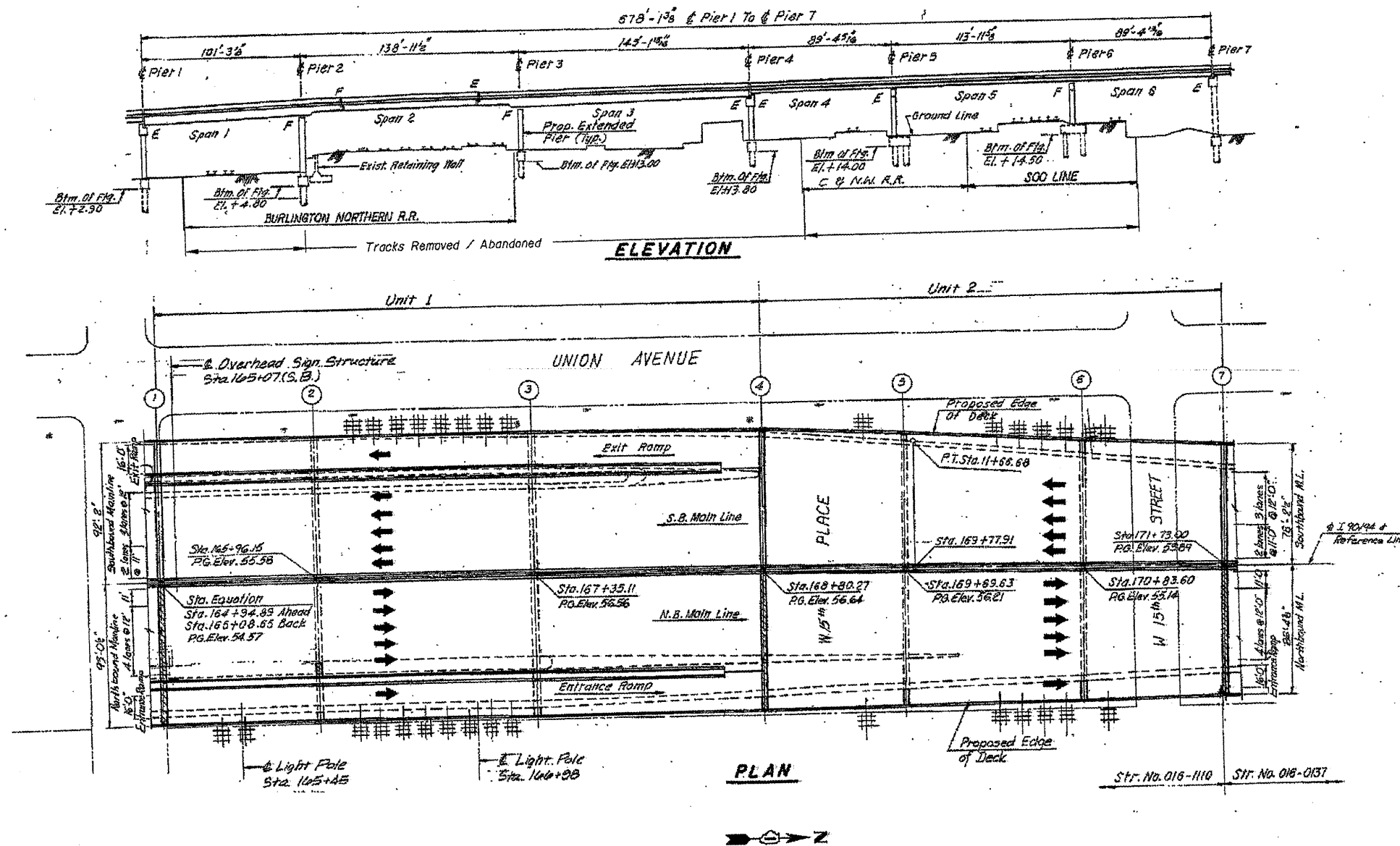


ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-90/94 (DAN RYAN EXPRESSWAY)  
VIADUCT KEY PLAN



| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-1 | COOK   | 87           | 7            |

CONTRACT NO. 60P27



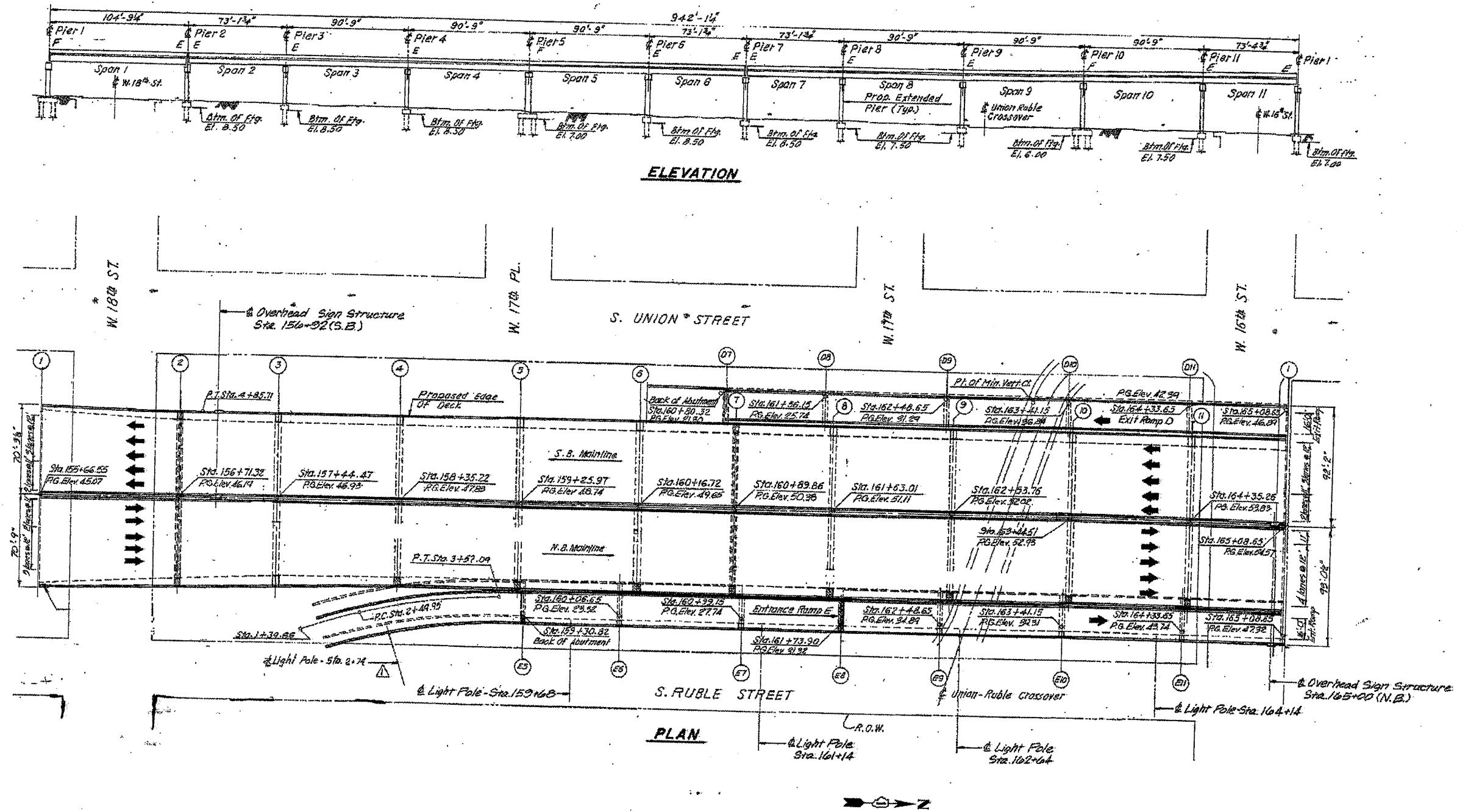
**FOR INFORMATION ONLY**

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
GENERAL PLAN AND ELEVATION  
SN 016-1110

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 8            |

CONTRACT NO. 60P27



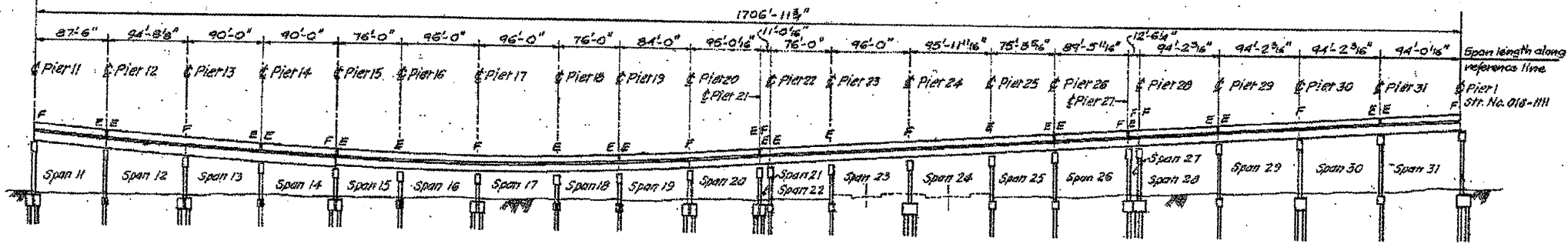
**FOR INFORMATION ONLY**

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

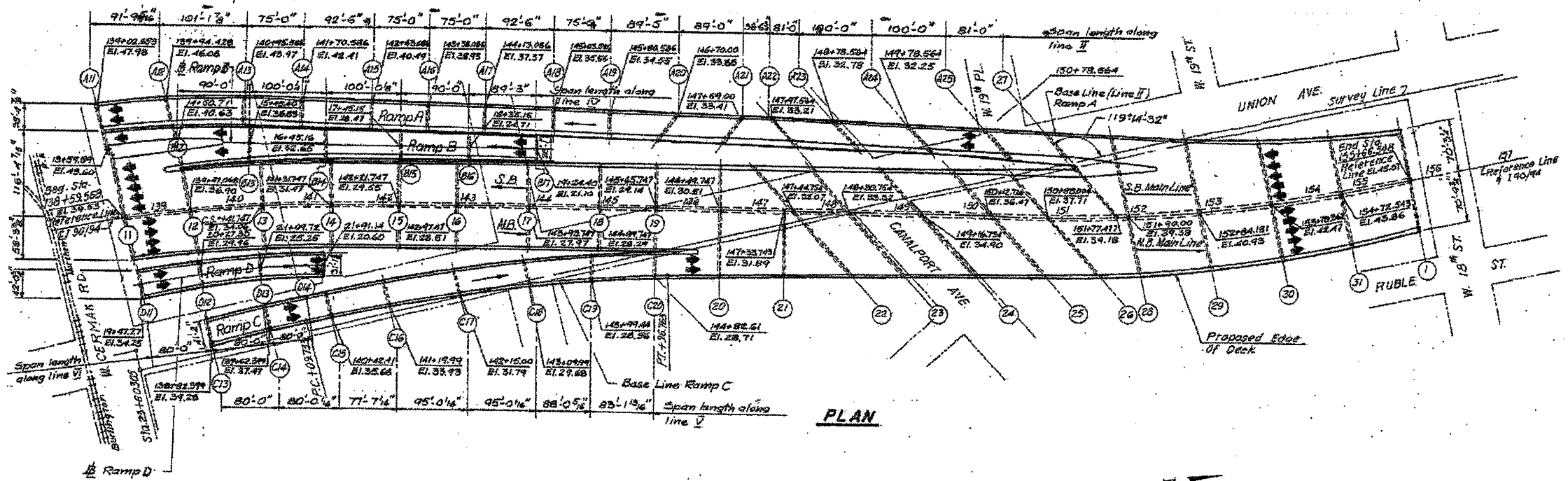
I-90/94 (DAN RYAN EXPRESSWAY)  
GENERAL PLAN AND ELEVATION  
SN 016-1111

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 9            |

CONTRACT NO. 60P27



ELEVATION



PLAN

**FOR INFORMATION ONLY**

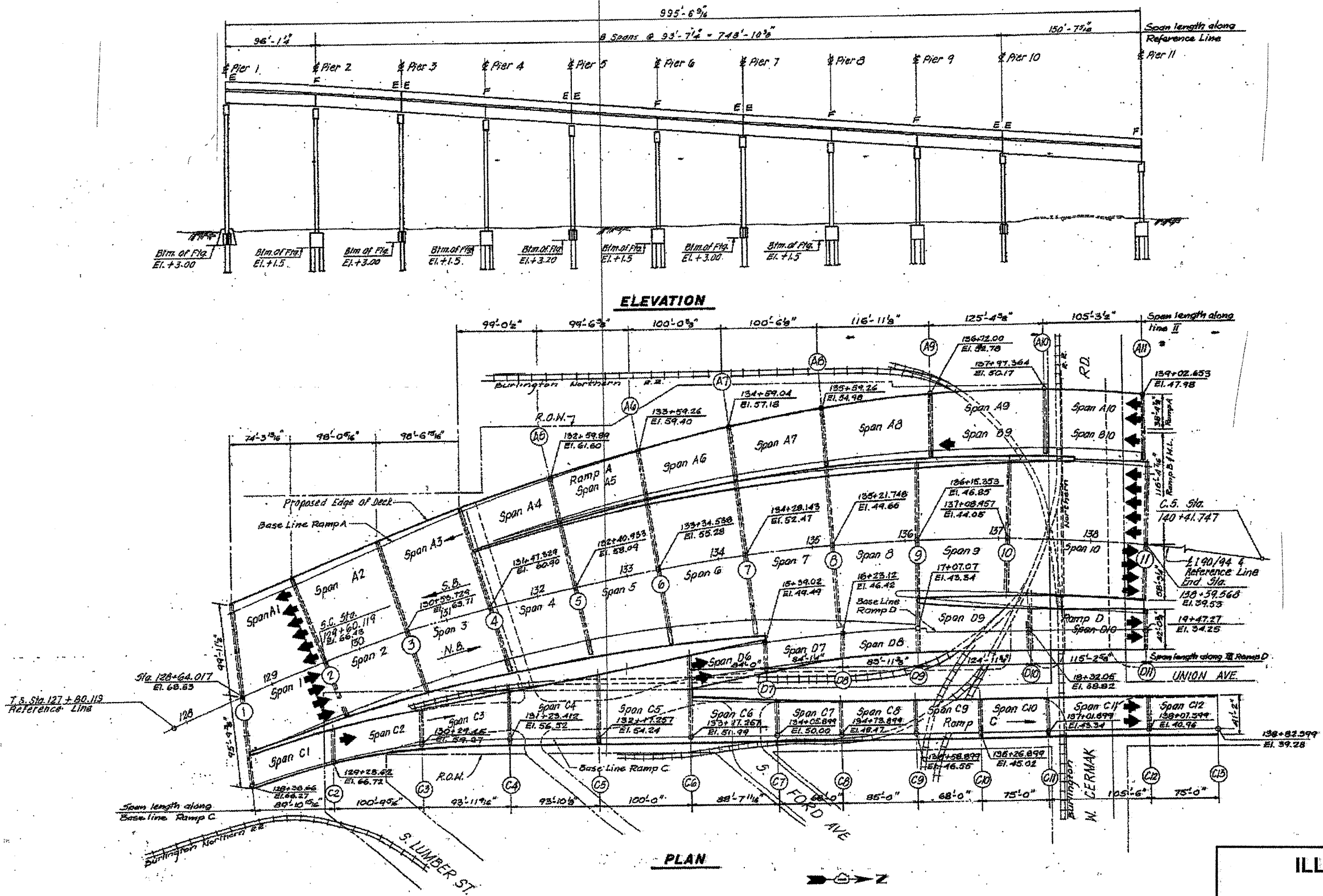
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
GENERAL PLAN AND ELEVATION  
SN 016-1112



| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 10           |

CONTRACT NO. 60P27



FOR INFORMATION ONLY

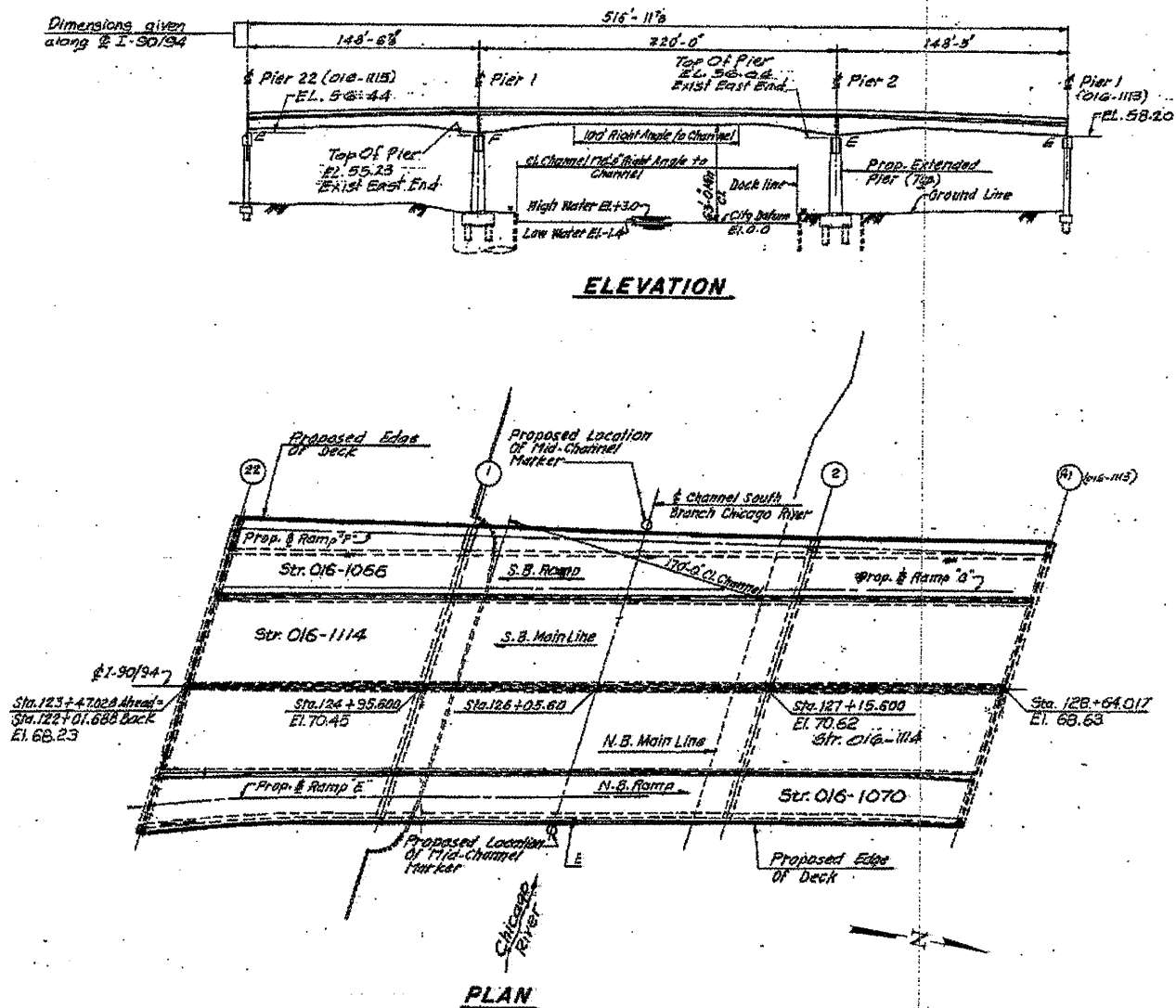
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
GENERAL PLAN AND ELEVATION  
SN 016-1113



| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 11           |

CONTRACT NO. 60P27



**FOR INFORMATION ONLY**

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

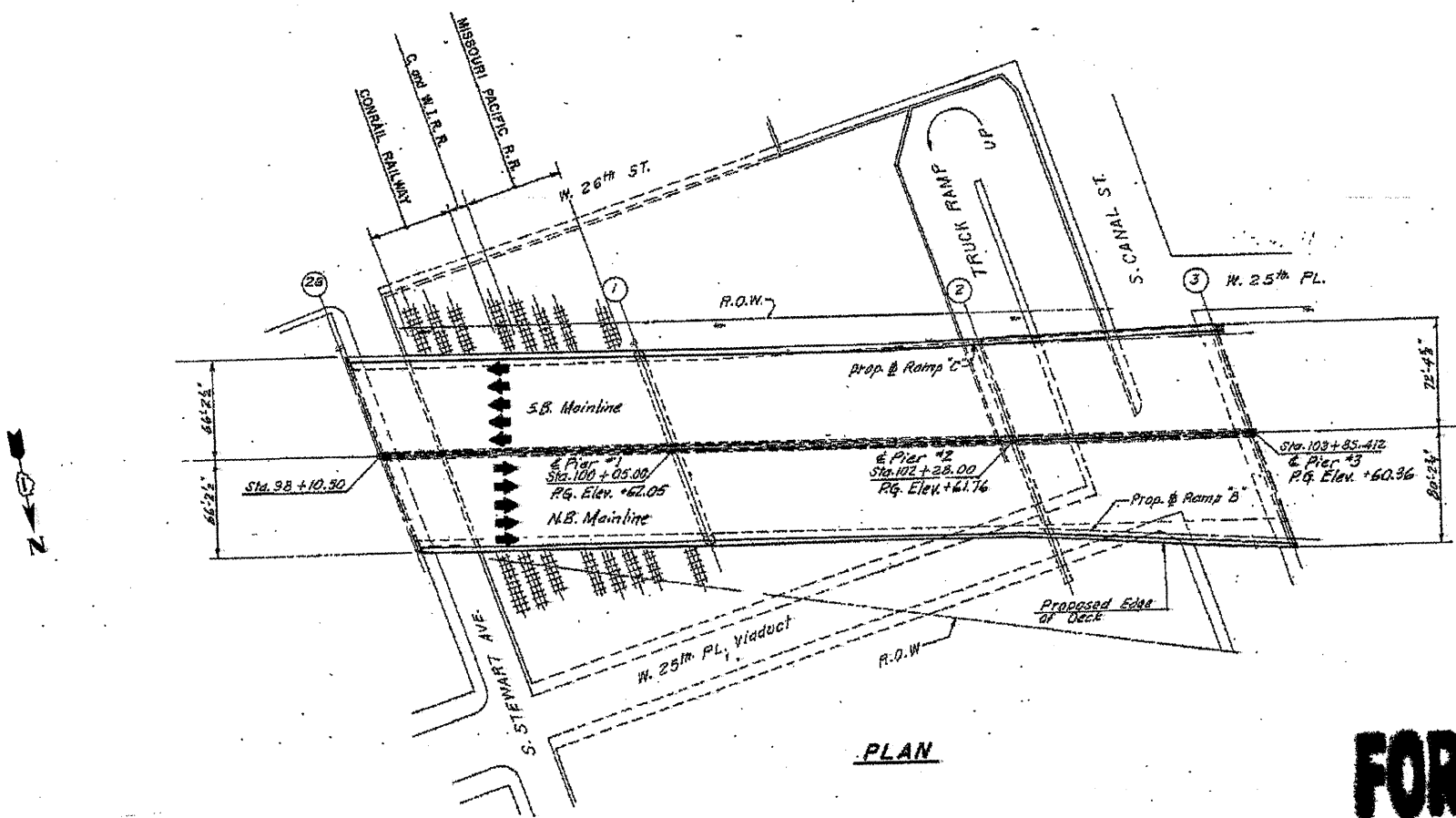
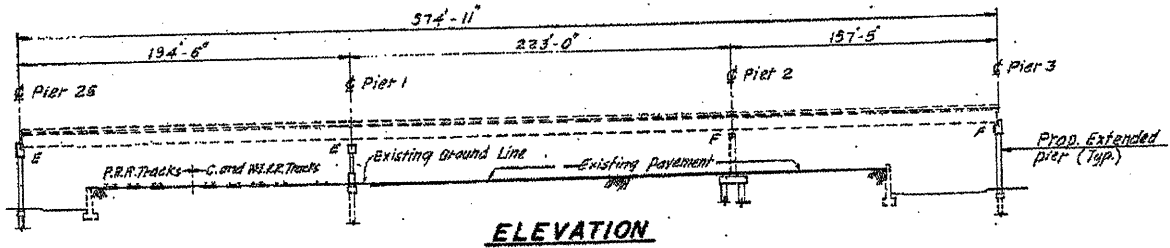
I-90/94 (DAN RYAN EXPRESSWAY)  
GENERAL PLAN AND ELEVATION  
SN 016-1114 (SN 016-1066, SN 016-1070)





| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-1 | COOK   | 87           | 13           |

CONTRACT NO. 60P27



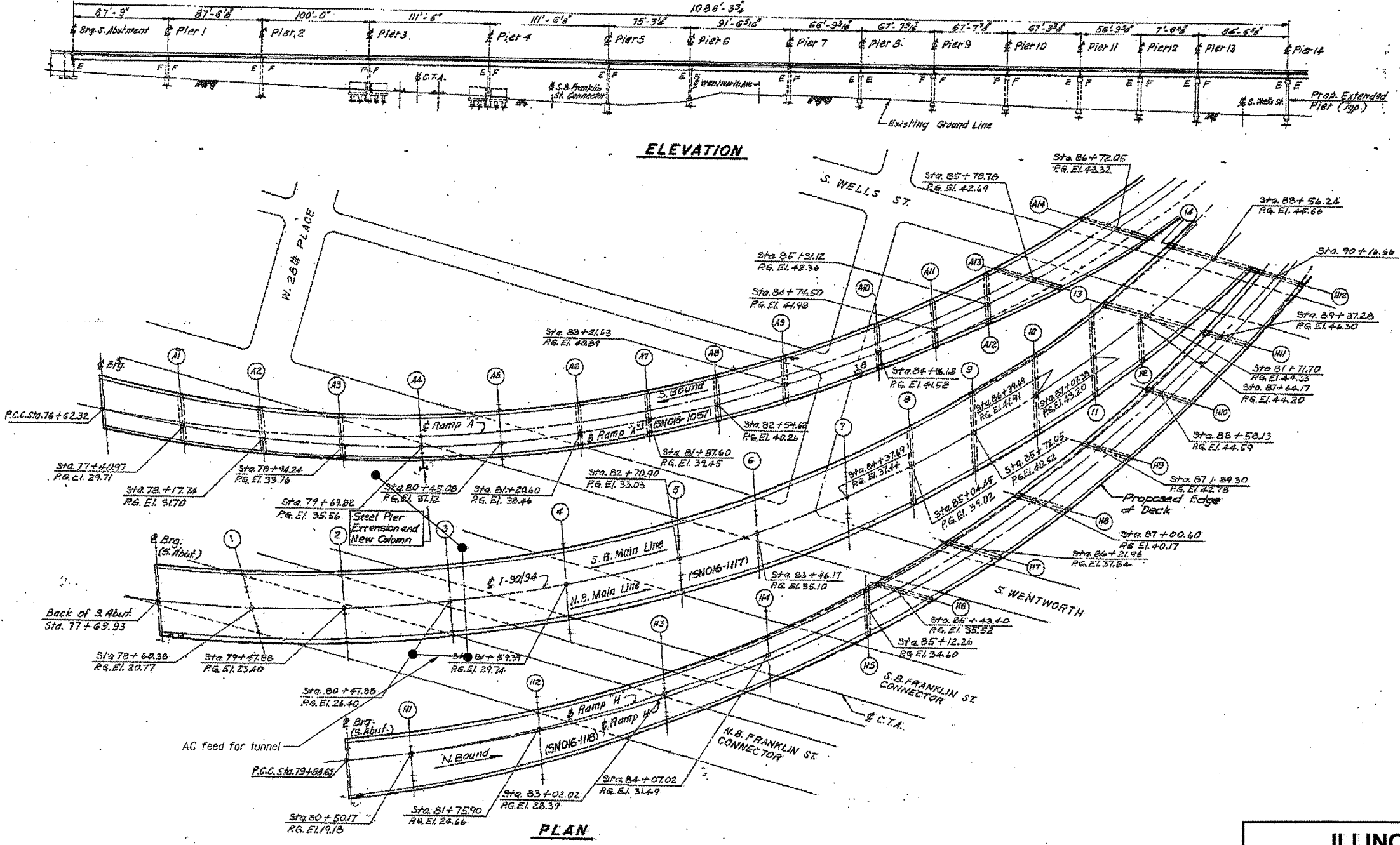
**FOR INFORMATION ONLY**

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
GENERAL PLAN AND ELEVATION  
SN 016-1116

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-1 | COOK   | 87           | 14           |

CONTRACT NO. 60P27

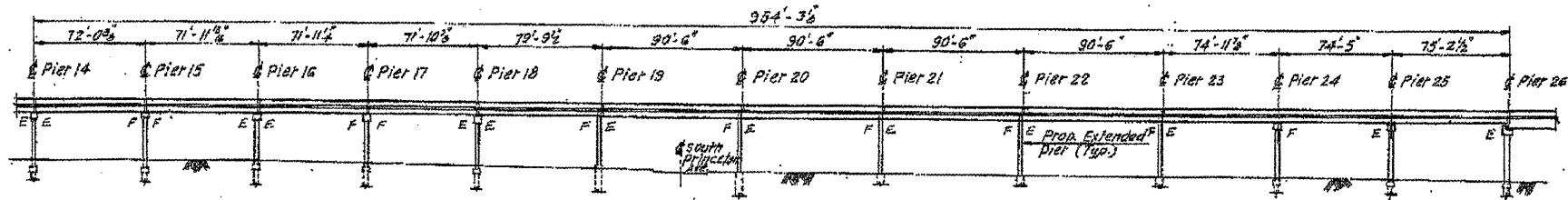


FOR INFORMATION ONLY

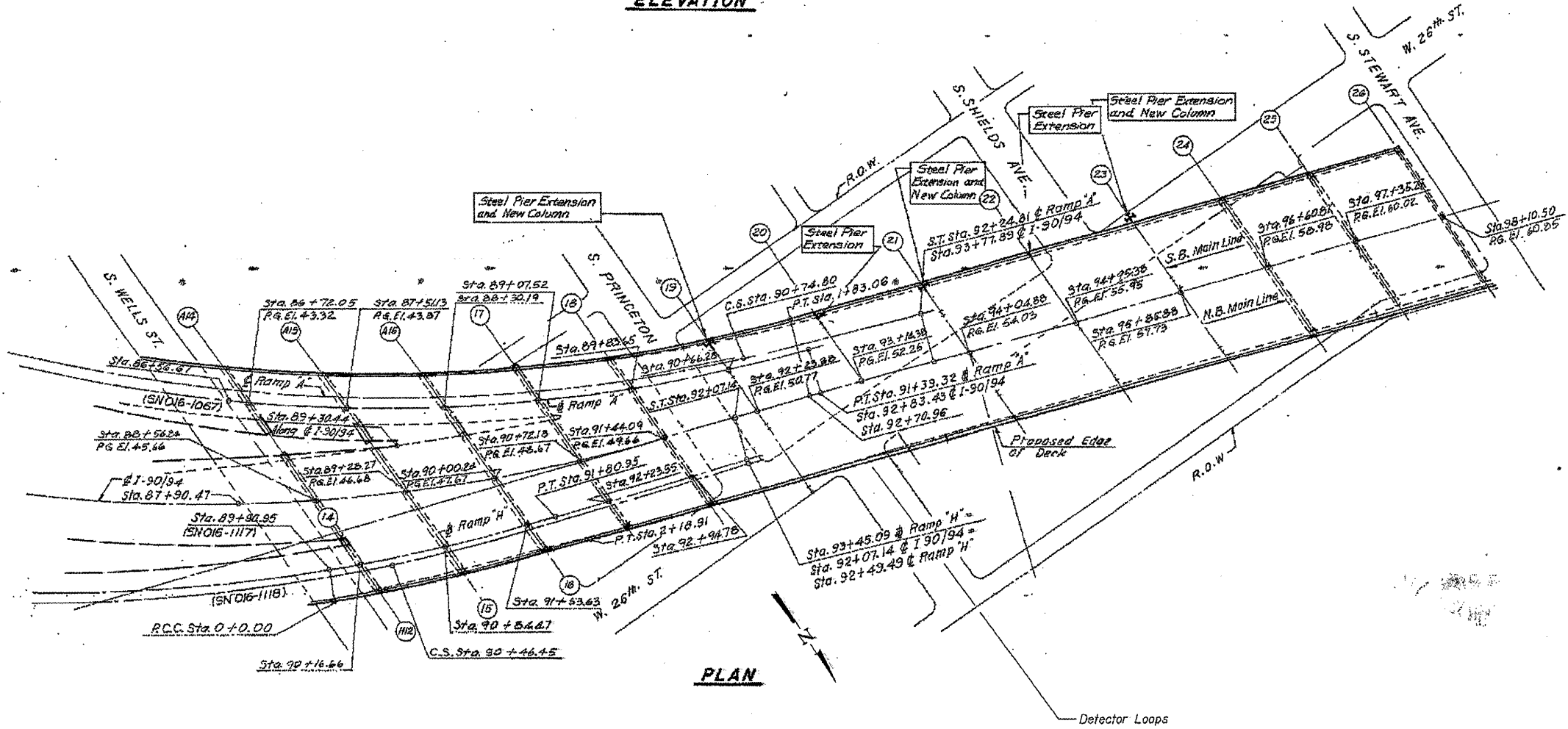
ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
GENERAL PLAN AND ELEVATION  
SN 016-1117, SN 016-1067, SN 016-1118  
SHEET 1 OF 2

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 15           |

CONTRACT NO. 60P27



ELEVATION



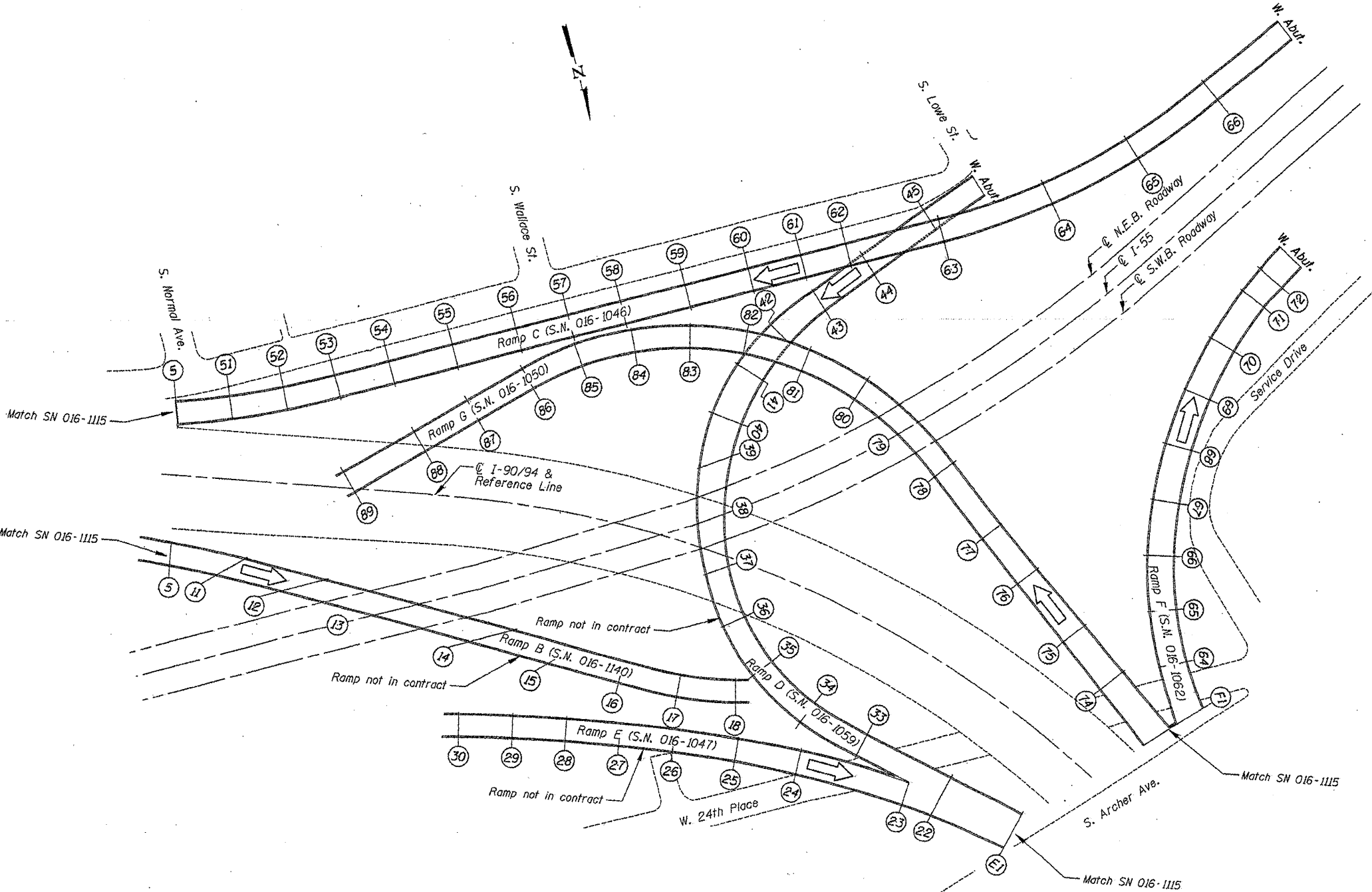
PLAN

FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
GENERAL PLAN AND ELEVATION  
SN 016-1117, SN 016-1067, SN 016-1118  
SHEET 2 OF 2

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 16           |

CONTRACT NO. 60P27



FOR INFORMATION ONLY

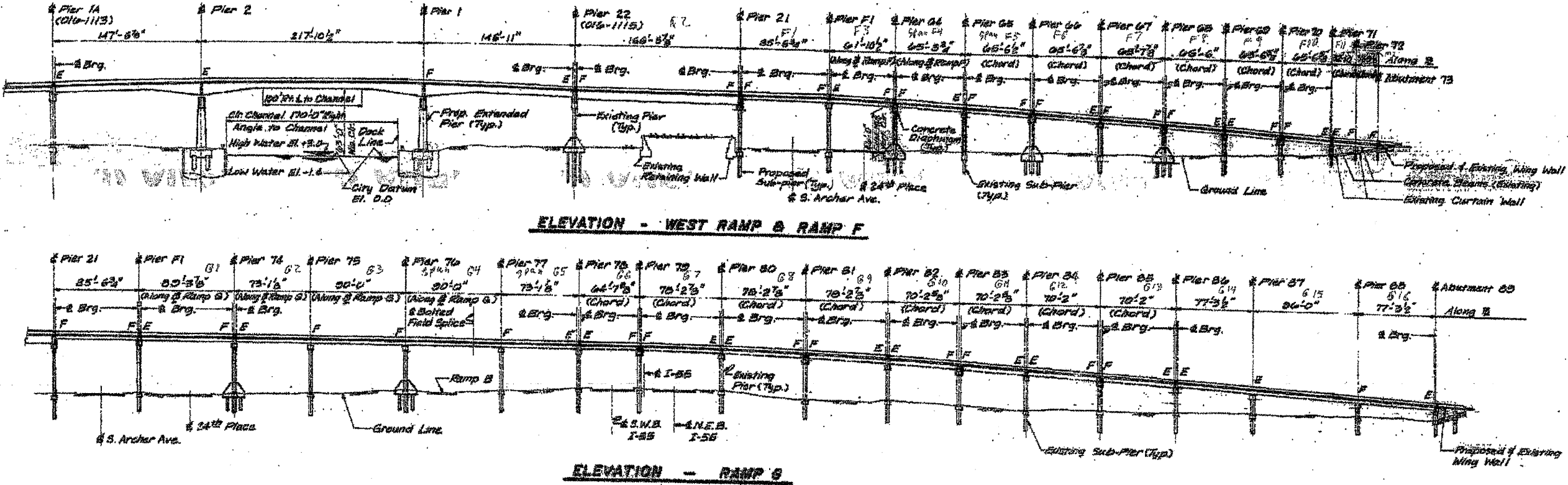
ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
GENERAL PLAN  
SN 016-1046, SN 016-1050, SN 016-1062  
SN 016-1059, SN 016-1140, SN 016-1047





| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 18           |

CONTRACT NO. 60P27



**FOR INFORMATION ONLY**

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

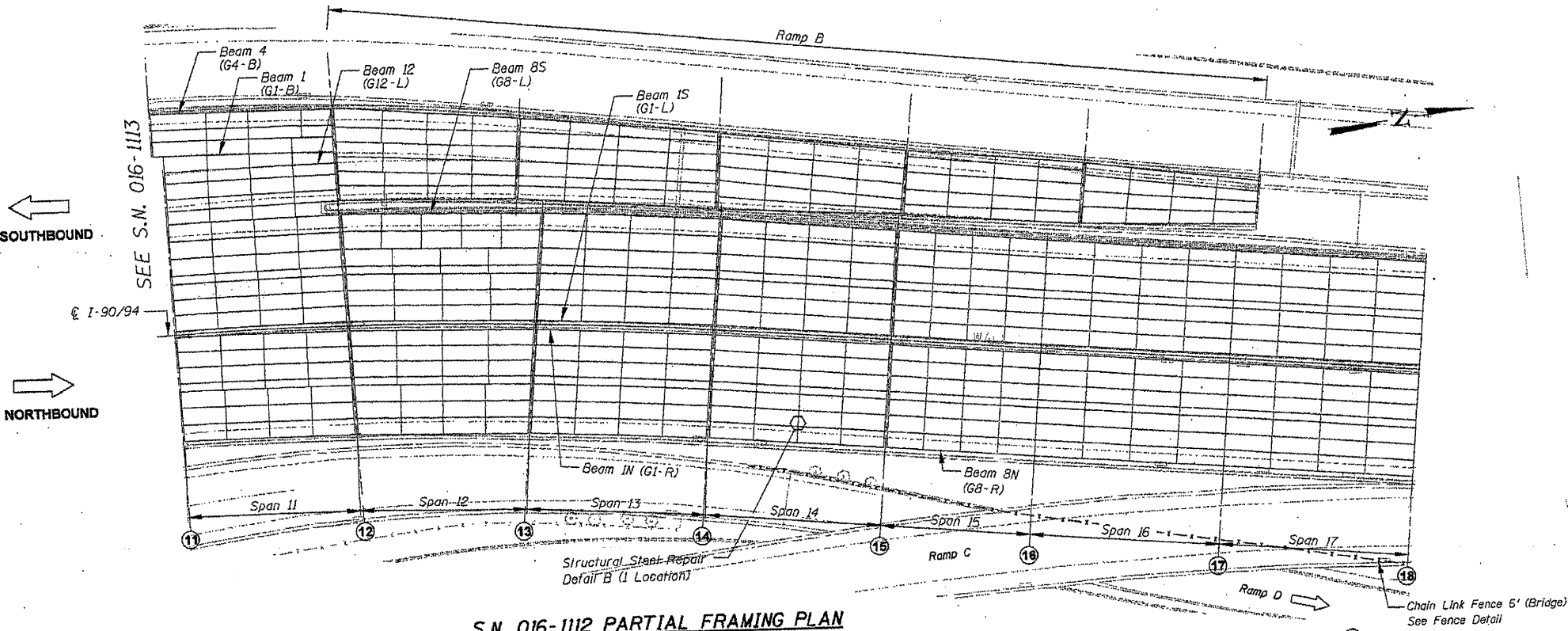
I-90/94 (DAN RYAN EXPRESSWAY)  
ELEVATION & PROFILE  
SN 016-1050, SN 016-1062, SN 016-1066



| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 19           |

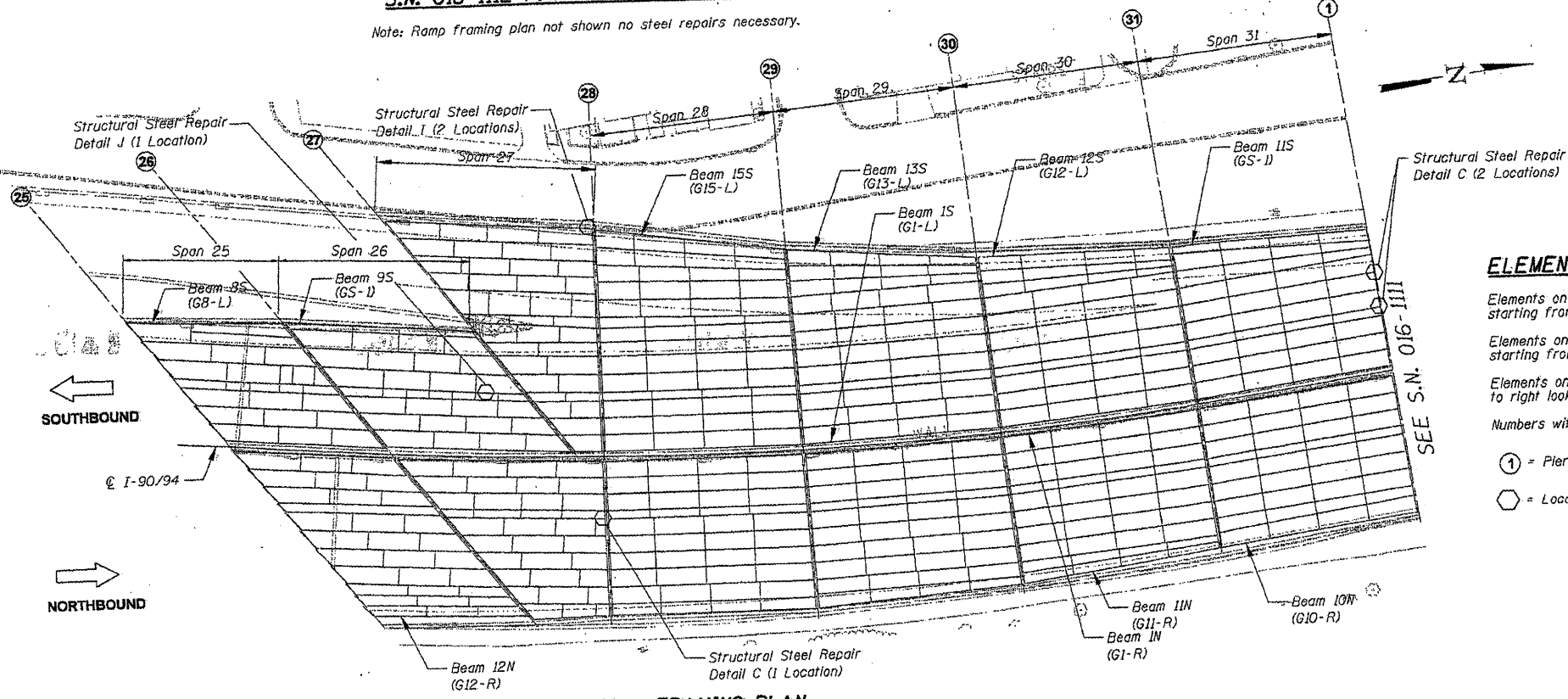
CONTRACT NO. 60P27

**FOR INFORMATION ONLY**



**S.N. 016-1112 PARTIAL FRAMING PLAN**

Note: Ramp framing plan not shown no steel repairs necessary.



**S.N. 016-1112 PARTIAL FRAMING PLAN**

**ELEMENT IDENTIFICATION**

- Elements on the Southbound Structure are identified 1S, 2S, 3S etc. starting from the centerline of I-90/94.
- Elements on the Northbound Structure are identified 1N, 2N, 3N etc. starting from the centerline of I-90/94.
- Elements on the Ramp Structures are identified 1, 2, 3 etc. from left to right looking on the direction of ramp traffic.
- Numbers within ( ) refer to as-built beam designations.
- ① = Pier No.
- ⬡ = Location of Structural Steel Repair

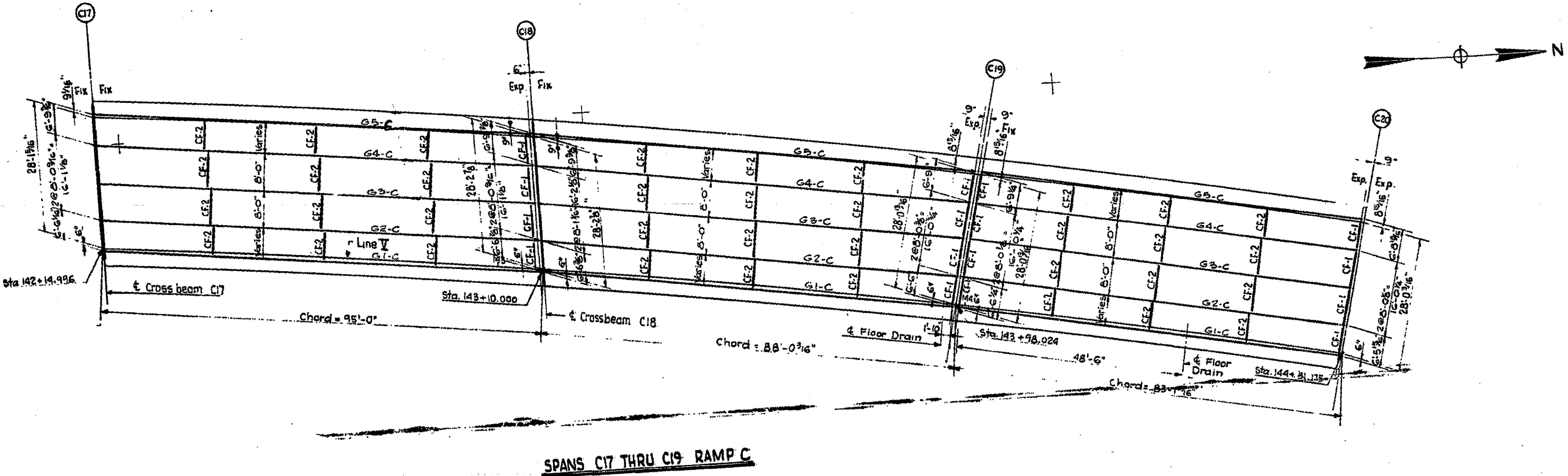
**ILLINOIS DEPARTMENT OF  
TRANSPORTATION**

**I-90/94 (DAN RYAN EXPRESSWAY)  
PARTIAL FRAMING PLAN  
SN 016-1112  
1 OF 2**



| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-1 | COOK   | 97           | 20           |

CONTRACT NO. 60P27

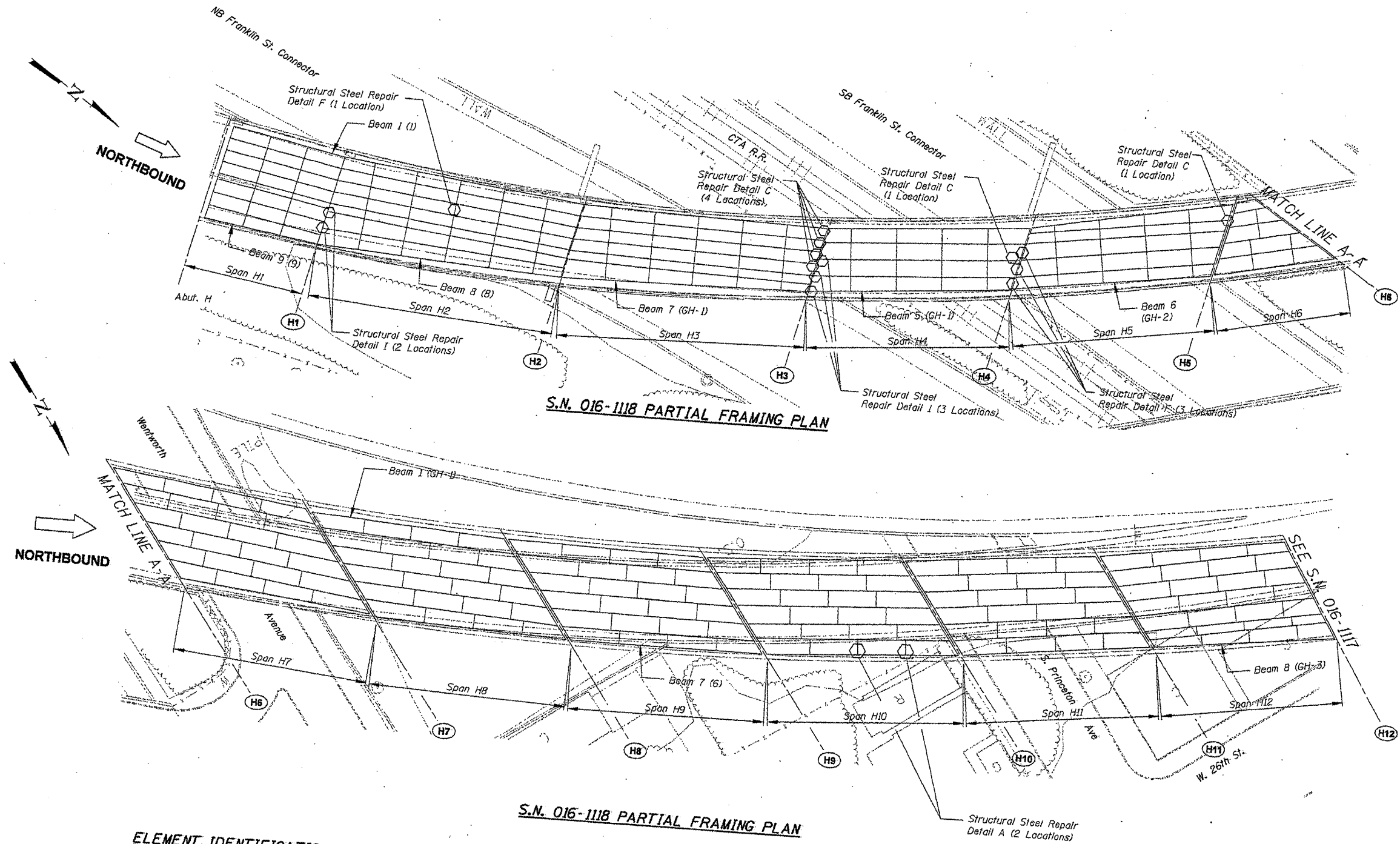


**FOR INFORMATION ONLY**

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
PARTIAL FRAMING PLAN  
SN 016-1112  
2 OF 2

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-1 | COOK   | 87           | 21           |

CONTRACT NO. 60P27



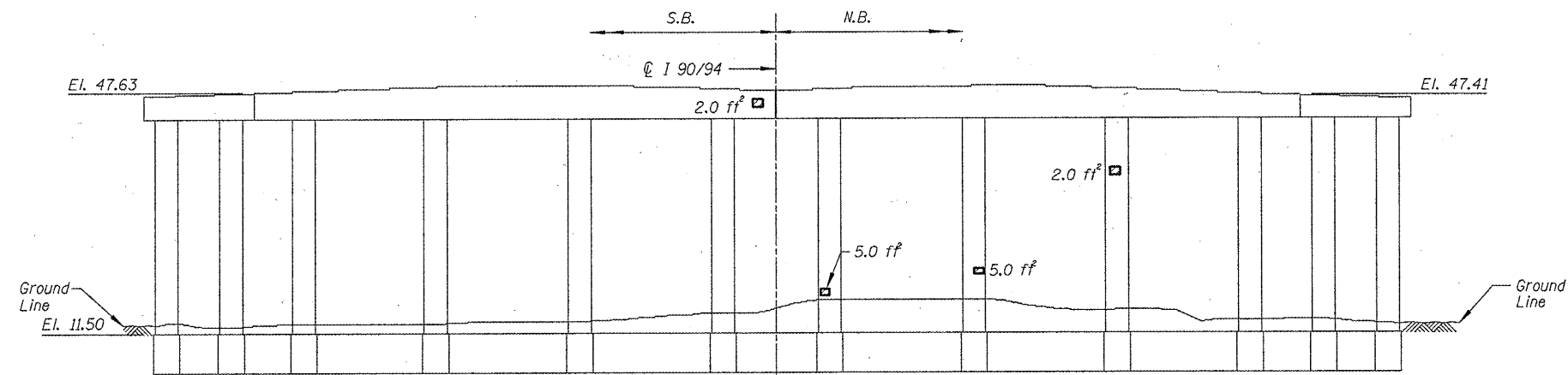
**ELEMENT IDENTIFICATION**  
Elements on the Ramp Structures are identified 1, 2, 3 etc. from left to right looking on the direction of ramp traffic.  
Numbers within ( ) refer to as-built beam designations.  
H1 = Pier No.  
○ Location of Structural Steel Repair

**FOR INFORMATION ONLY**

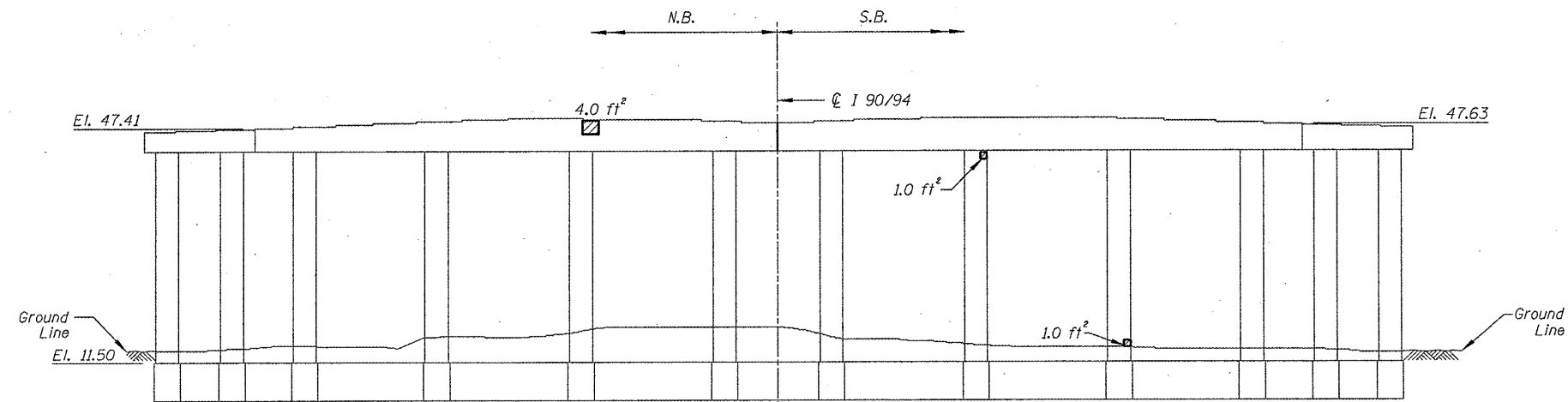
ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
PARTIAL FRAMING PLAN  
SN 016-1118

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 22           |

CONTRACT NO. 60P27



**PIER 8 - SOUTH ELEVATION**  
(Looking North)

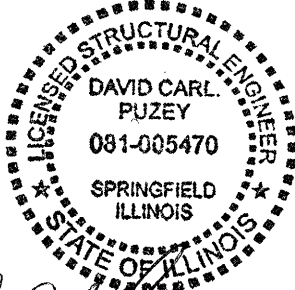


**PIER 8 - NORTH ELEVATION**  
(Looking South)

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 20.0     |

▨ - Structural Repair of Concrete (Depth equal to or less than 5")



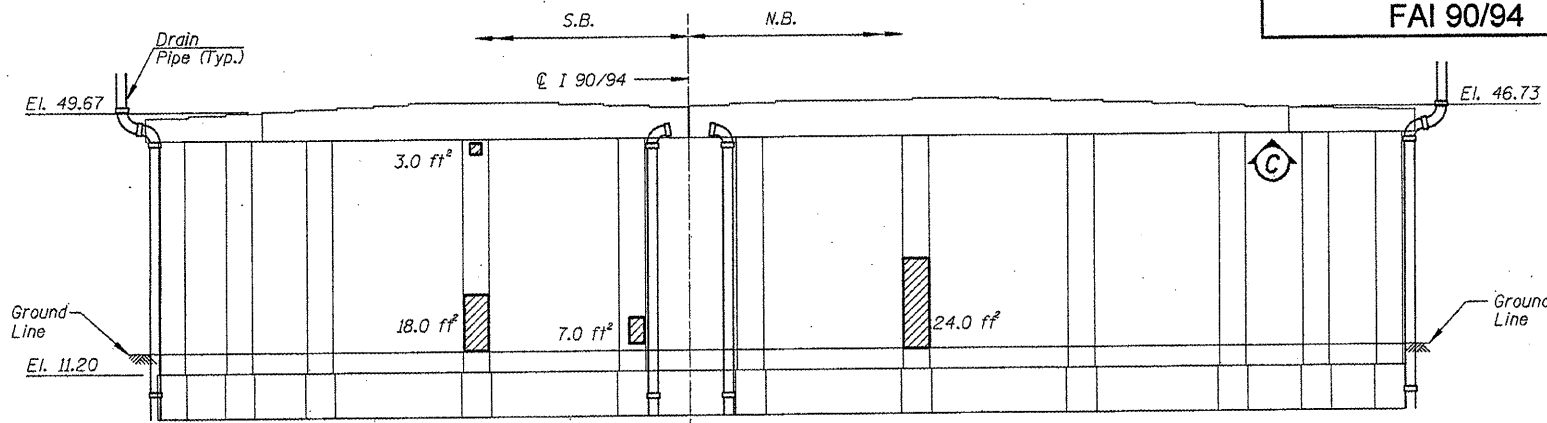
*David Carl Puze* 5/13/11  
Expires 11/30/2012

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

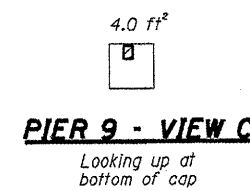
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-0137  
PIERS 8

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 23           |

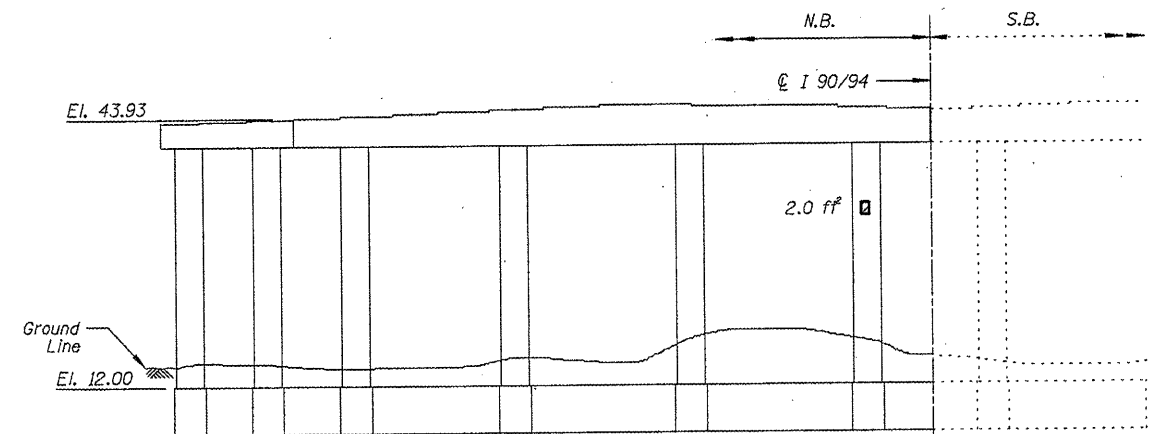
CONTRACT NO. 60P27



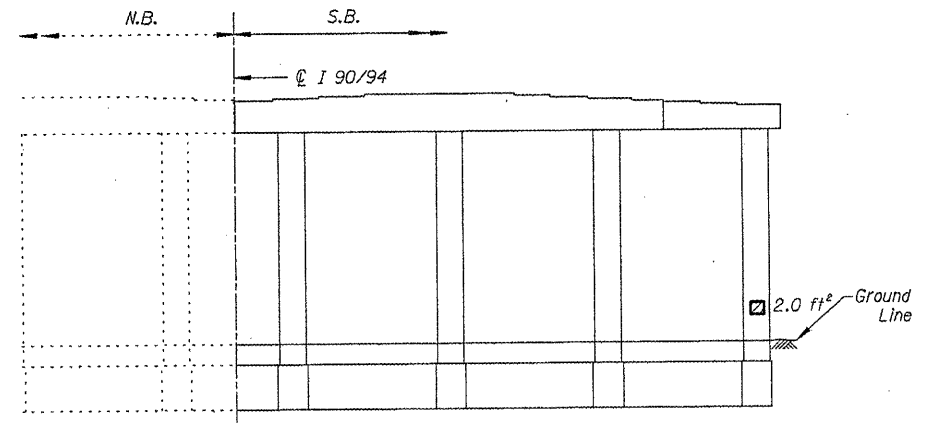
**PIER 9 - SOUTH ELEVATION**  
(Looking North)



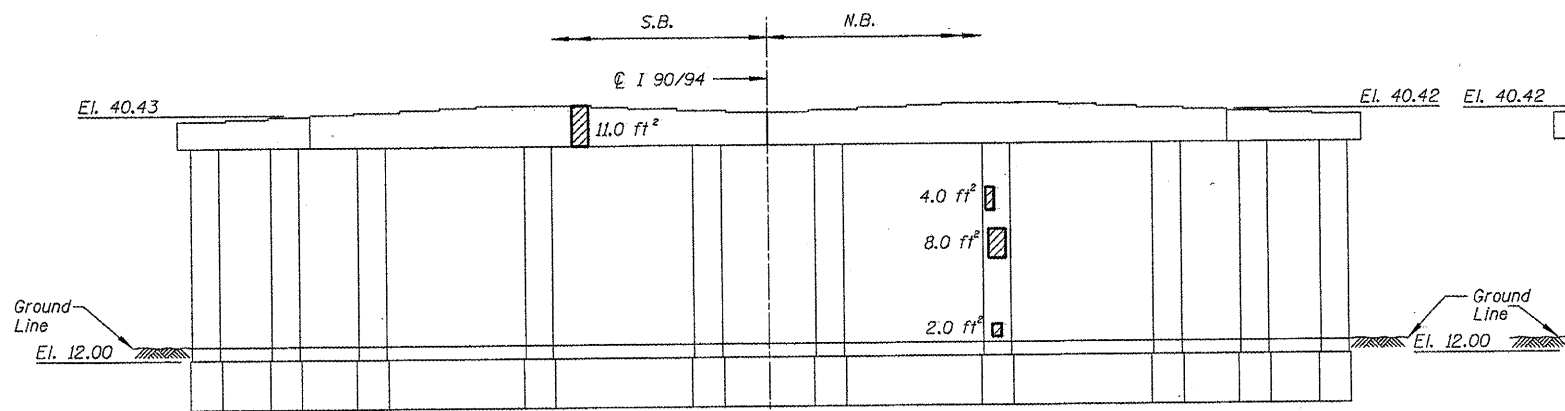
**PIER 9 - VIEW C**  
Looking up at bottom of cap



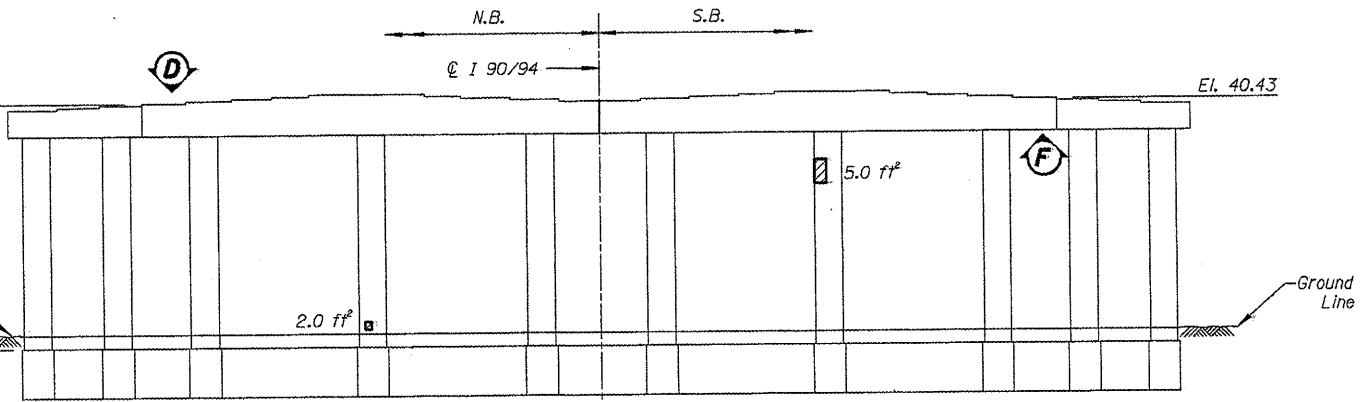
**PIER 10 - NORTH ELEVATION**  
(Looking South)



**PIER 11 - NORTH ELEVATION**  
(Looking South)



**PIER 12 - SOUTH ELEVATION**  
(Looking North)

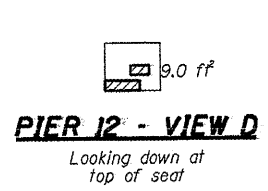


**PIER 12 - NORTH ELEVATION**  
(Looking South)

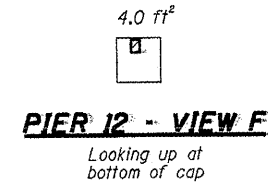
**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 105.0    |

▨ - Structural Repair of Concrete (Depth equal to or less than 5")



**PIER 12 - VIEW D**  
Looking down at top of seat

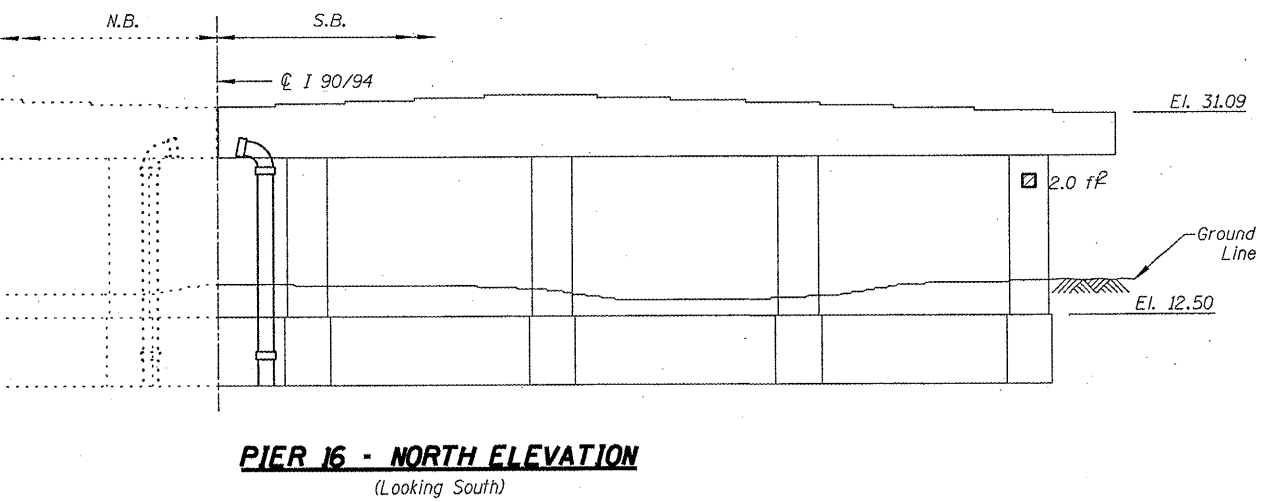
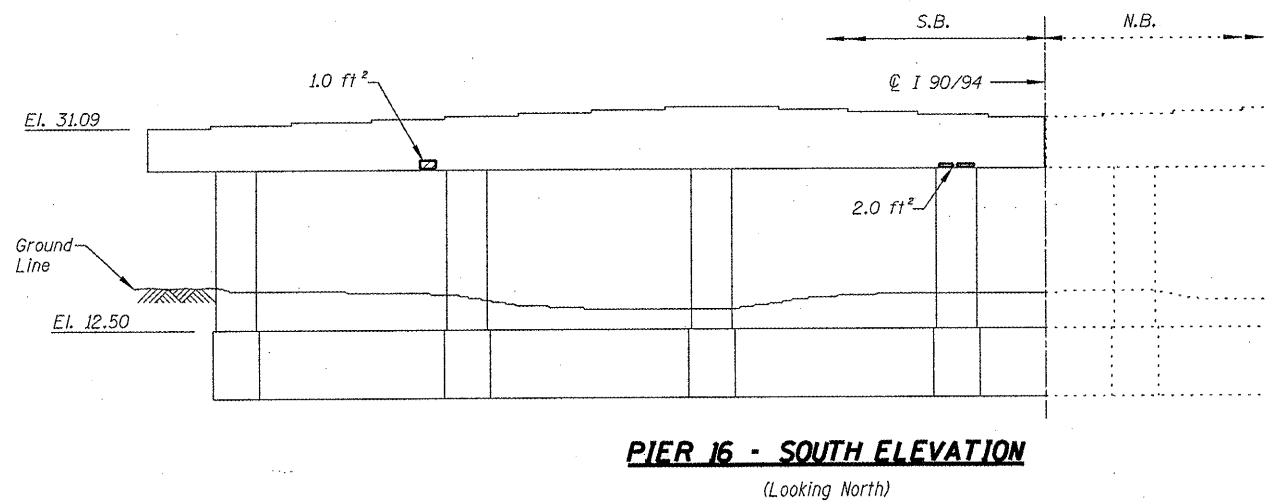
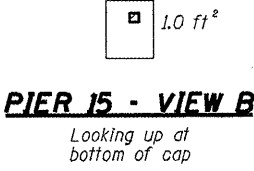
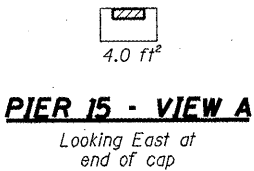
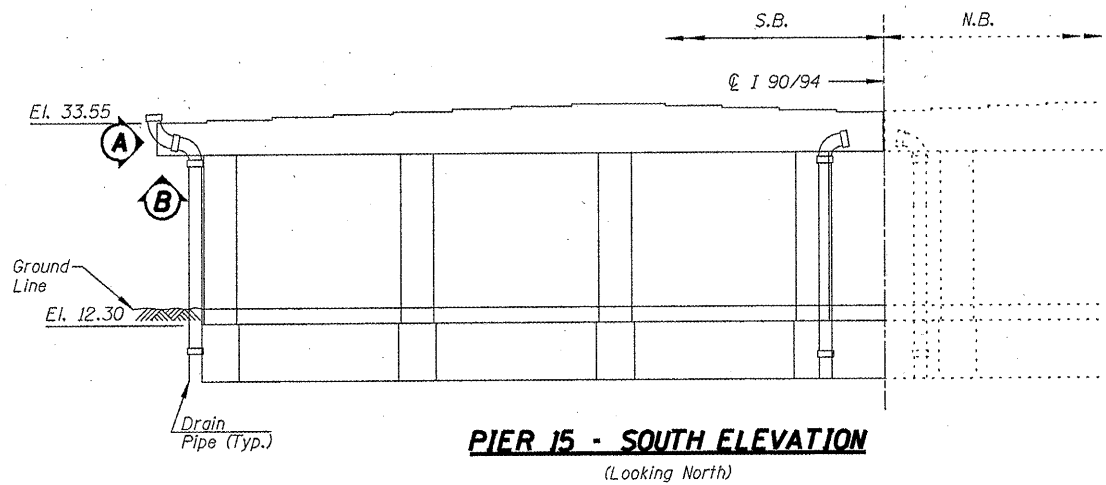


**PIER 12 - VIEW F**  
Looking up at bottom of cap

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-0137  
PIERS 9, 10, 11, & 12

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 24           |

CONTRACT NO. 60P27



**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 10.0     |

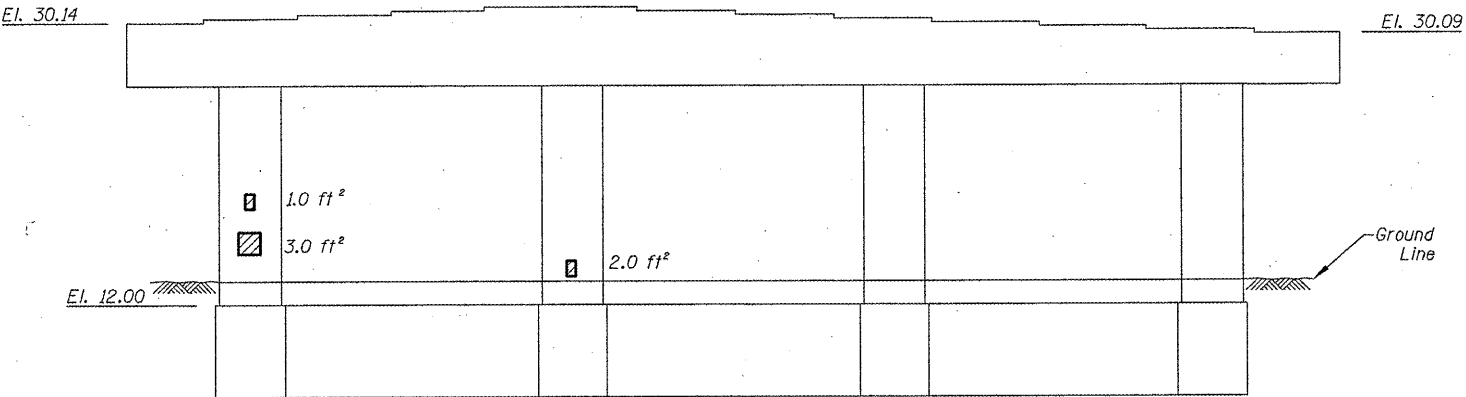
☐ - Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-0137  
PIERS 15 & 16

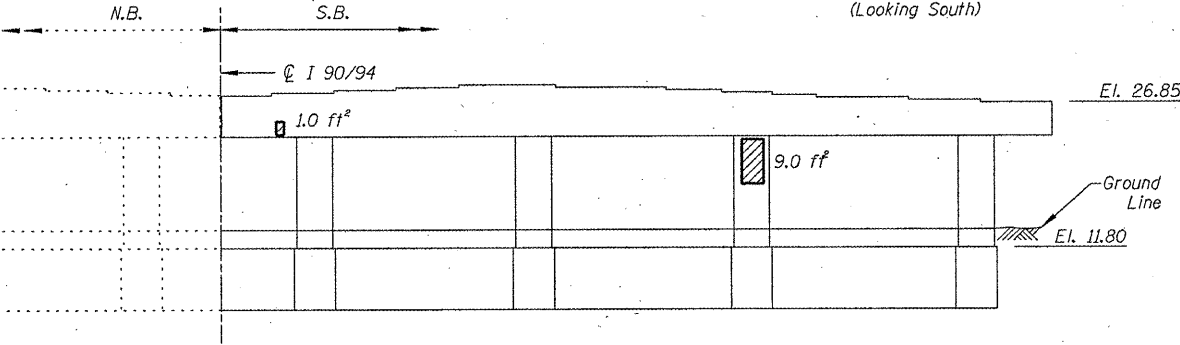


| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 25           |

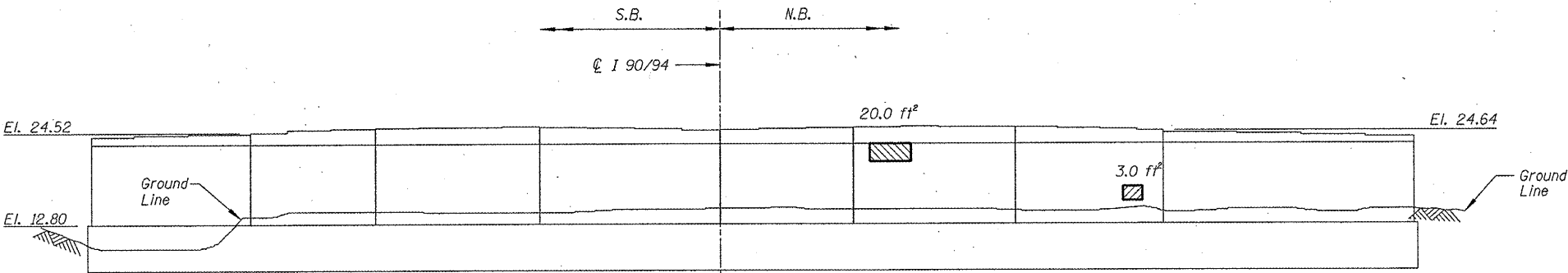
CONTRACT NO. 60P27



**PIER 17 - NORTH ELEVATION**  
(Looking South)



**PIER 19 - NORTH ELEVATION**  
(Looking South)



**PIER 20 - SOUTH ELEVATION**  
(Looking North)

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 39.0     |

 - Structural Repair of Concrete (Depth equal to or less than 5")

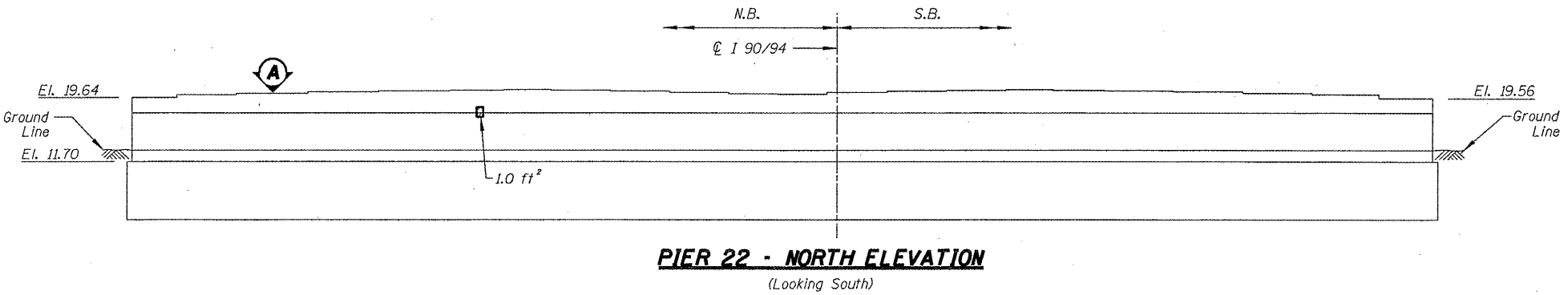
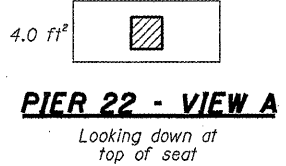
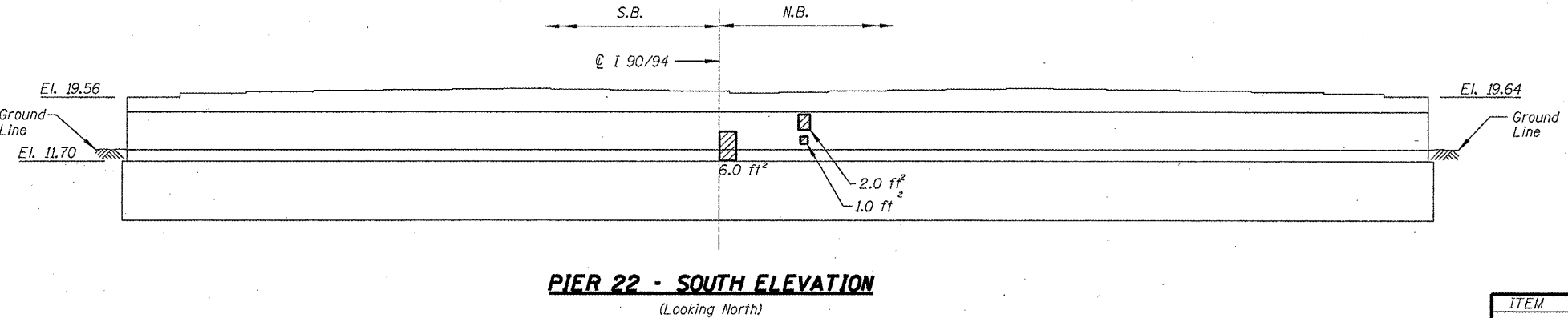
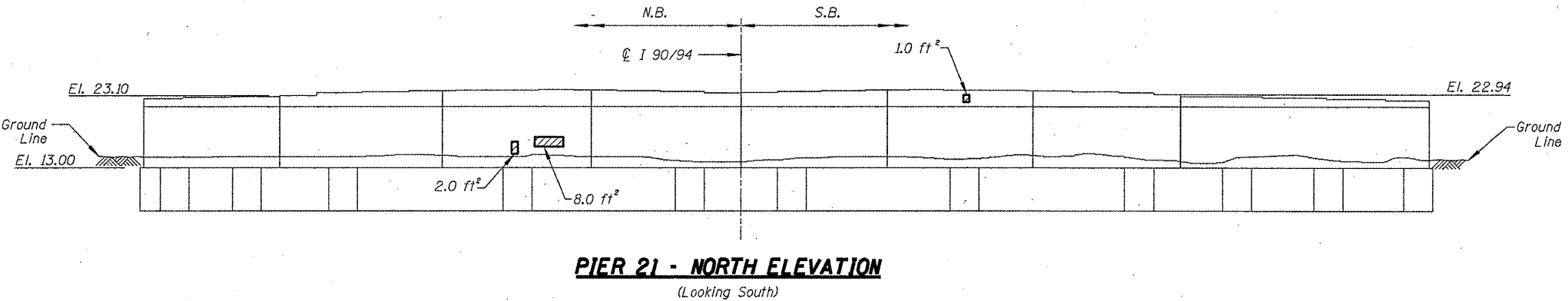
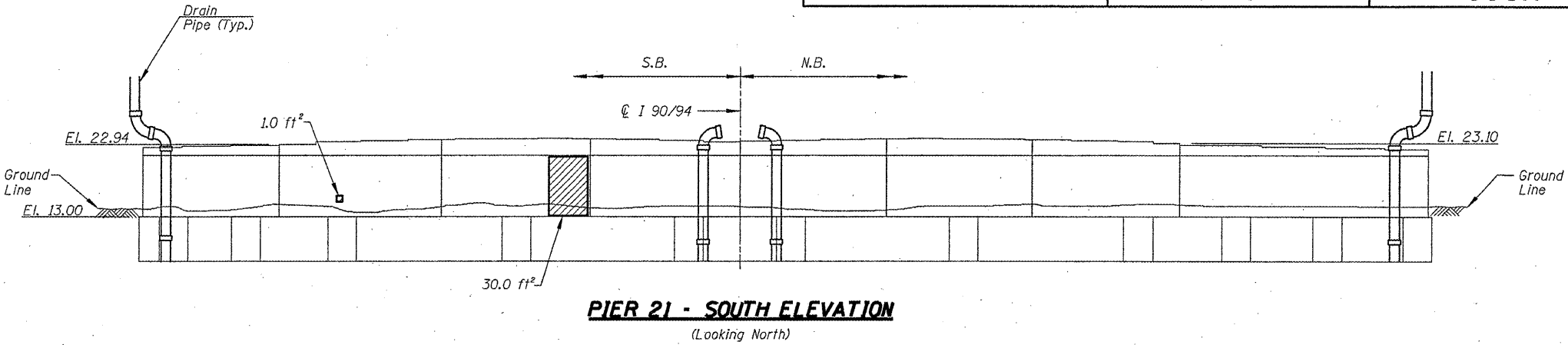
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-0137  
PIERS 17, 19, & 20



| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 26           |

CONTRACT NO. 60P27



| BILL OF MATERIAL                                               |         |          |
|----------------------------------------------------------------|---------|----------|
| ITEM                                                           | UNIT    | QUANTITY |
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 56.0     |

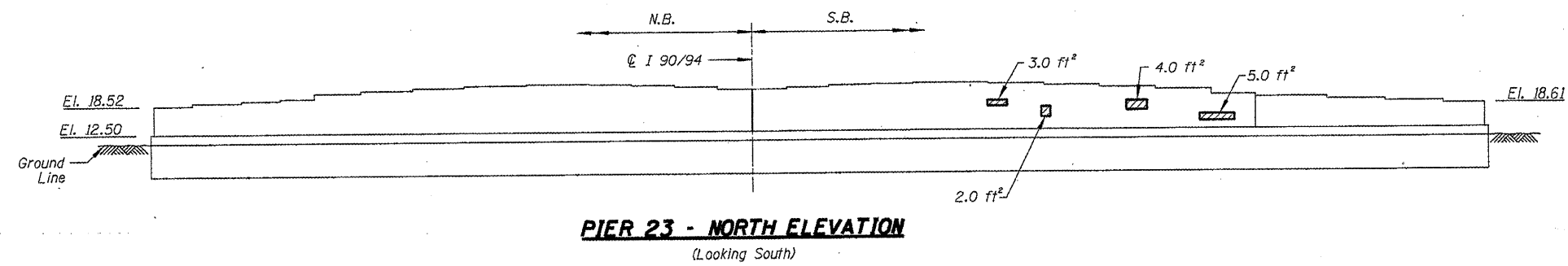
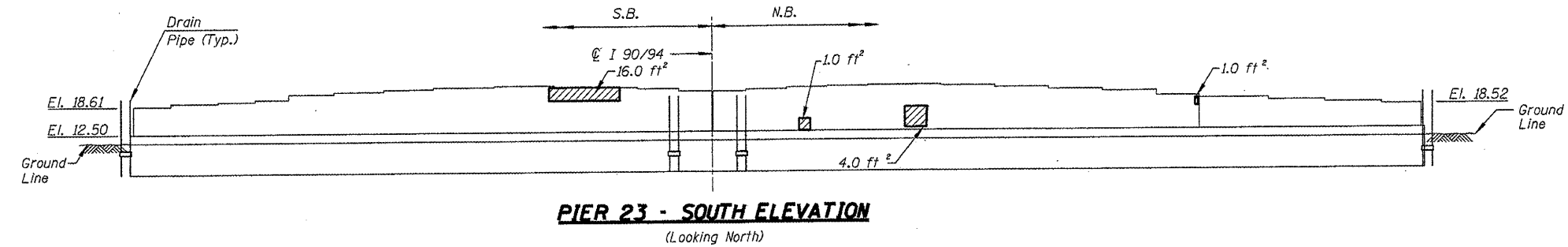
▨ - Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-0137  
PIERS 21 & 22

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 27           |

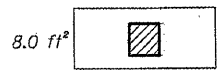
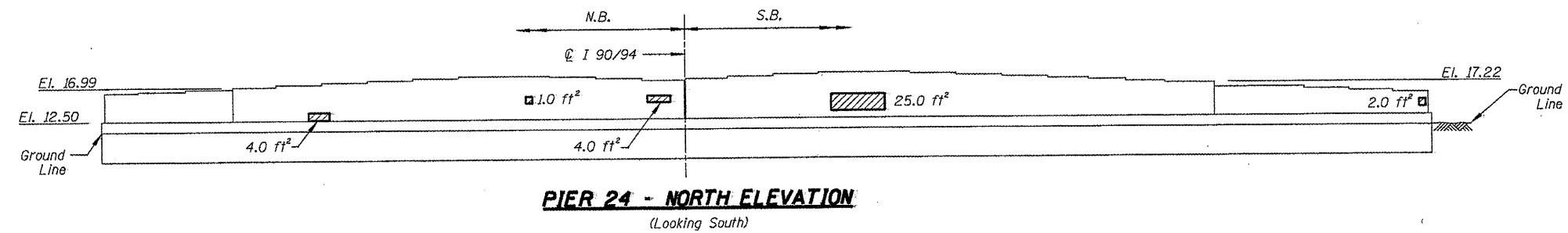
CONTRACT NO. 60P27



# **BILL OF MATERIAL**

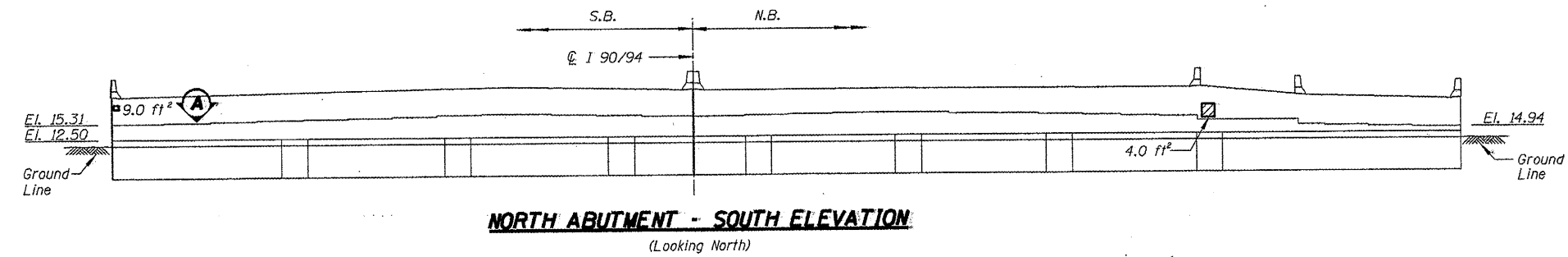
| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 93.0     |

 - Structural Repair of Concrete (Depth equal to or less than 5")



# **NORTH ABUTMENT - VIEW A**

Looking down at  
top of seat



ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-0137  
PIERS 23, 24 & N. ABUT.

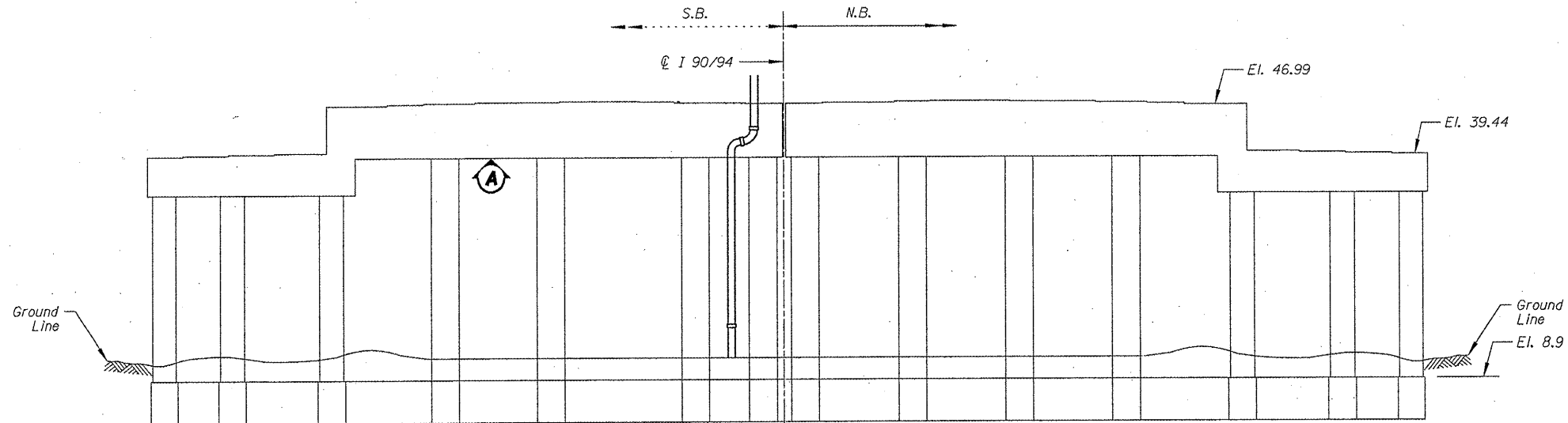
| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 28           |

CONTRACT NO. 60P27

36.0 ft<sup>2</sup>

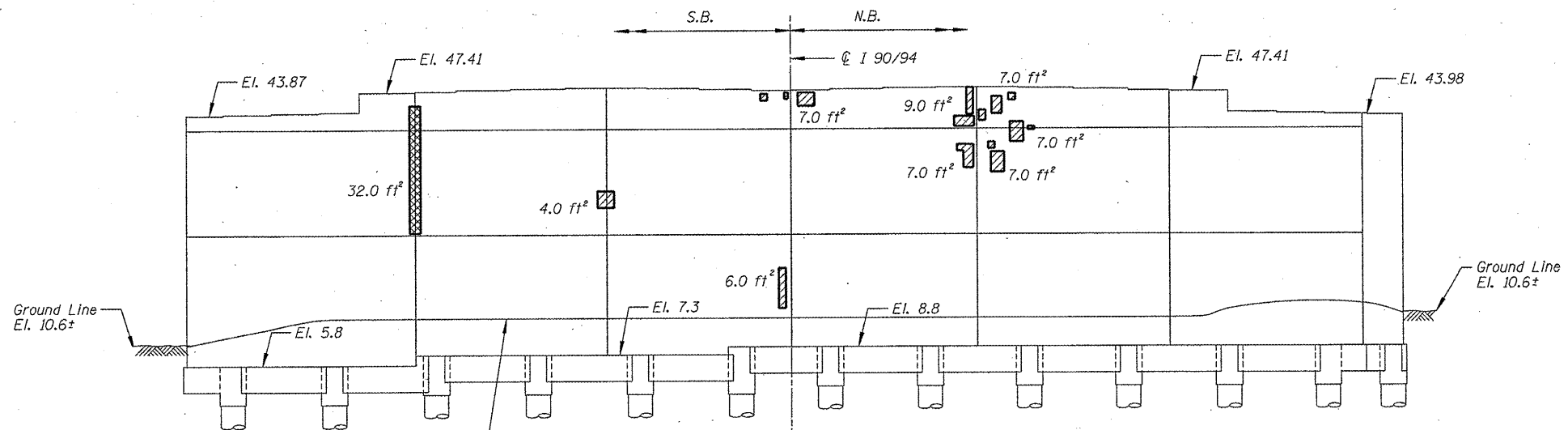
**PIER 1 - VIEW A**

Looking up at  
bottom of cap

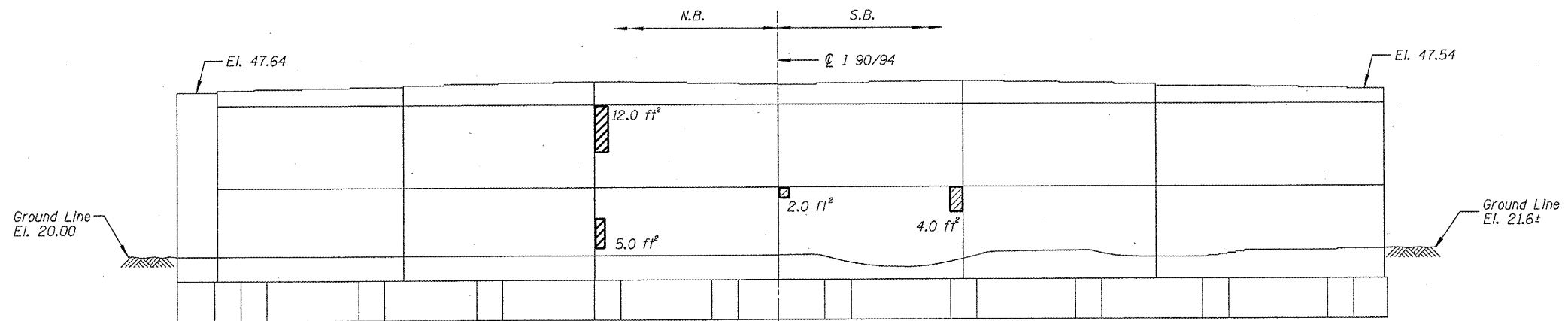


*David Carl Puzey* 5/13/11  
Expires 11/30/2012

- Structural Repair of Concrete (Depth equal to or less than 5")
- Structural Repair of Concrete (Depth greater than 5")



**PIER 2 - SOUTH ELEVATION**  
(Looking North)



**PIER 3 - NORTH ELEVATION**  
(Looking South)

**BILL OF MATERIAL**

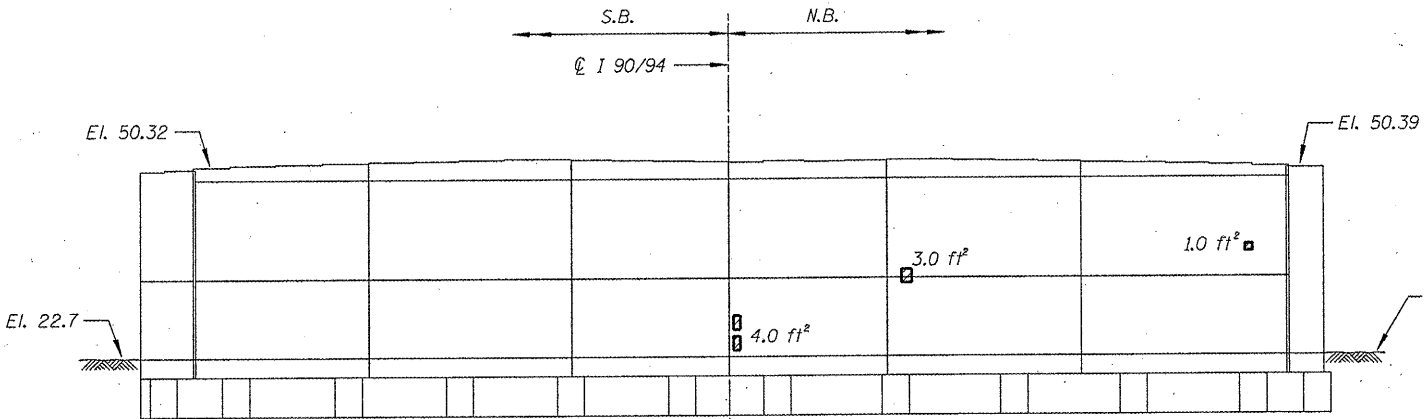
| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 113.0    |
| Structural Repair of Concrete<br>(Depth greater than 5")          | SQ. FT. | 32.0     |

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

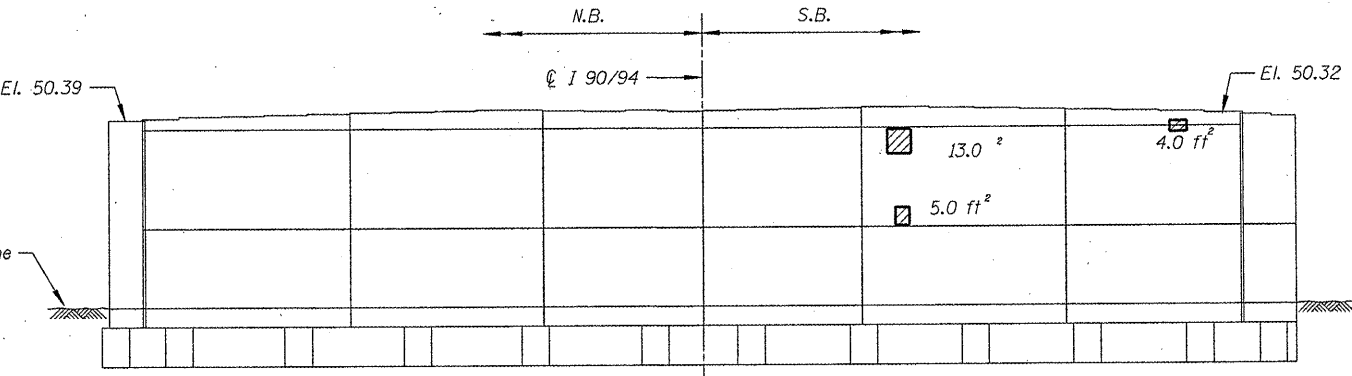
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1110  
PIERS 1, 2, & 3

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-1 | COOK   | 87           | 29           |

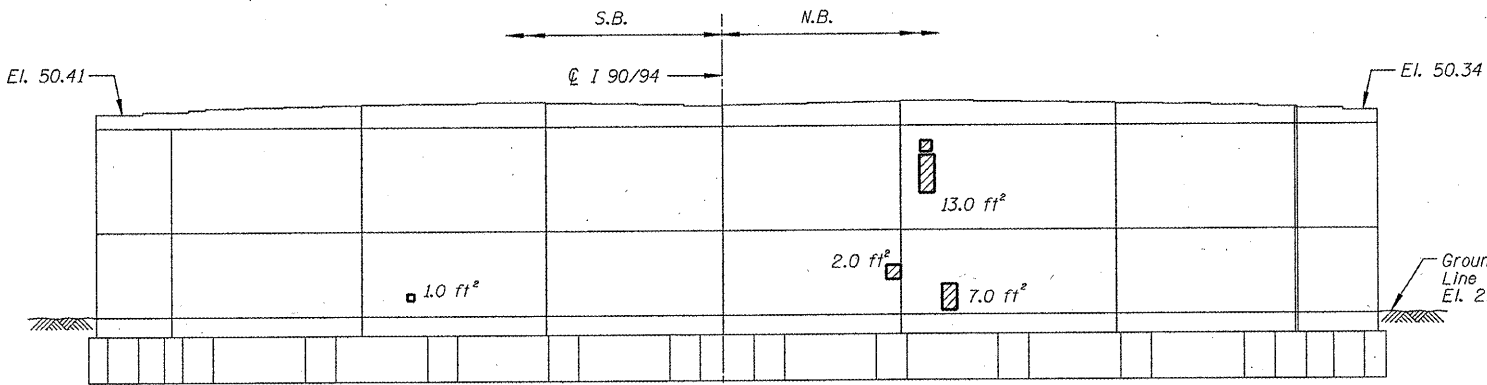
CONTRACT NO. 60P27



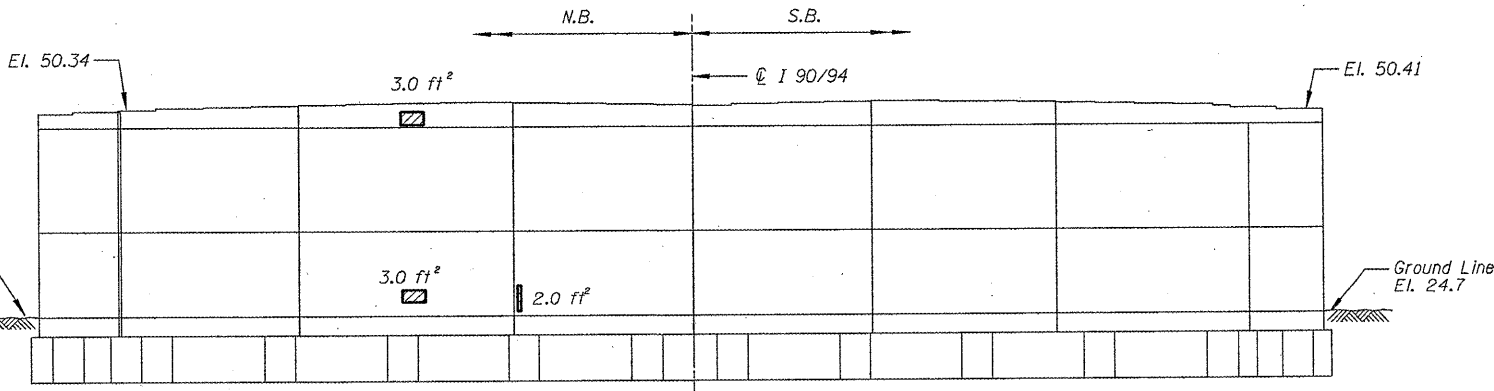
**PIER 5 - SOUTH ELEVATION**  
(Looking North)



**PIER 5 - NORTH ELEVATION**  
(Looking South)



**PIER 6 - SOUTH ELEVATION**  
(Looking North)



**PIER 6 - NORTH ELEVATION**  
(Looking South)

 - Structural Repair of Concrete (Depth equal to or less than 5")

**BILL OF MATERIAL**

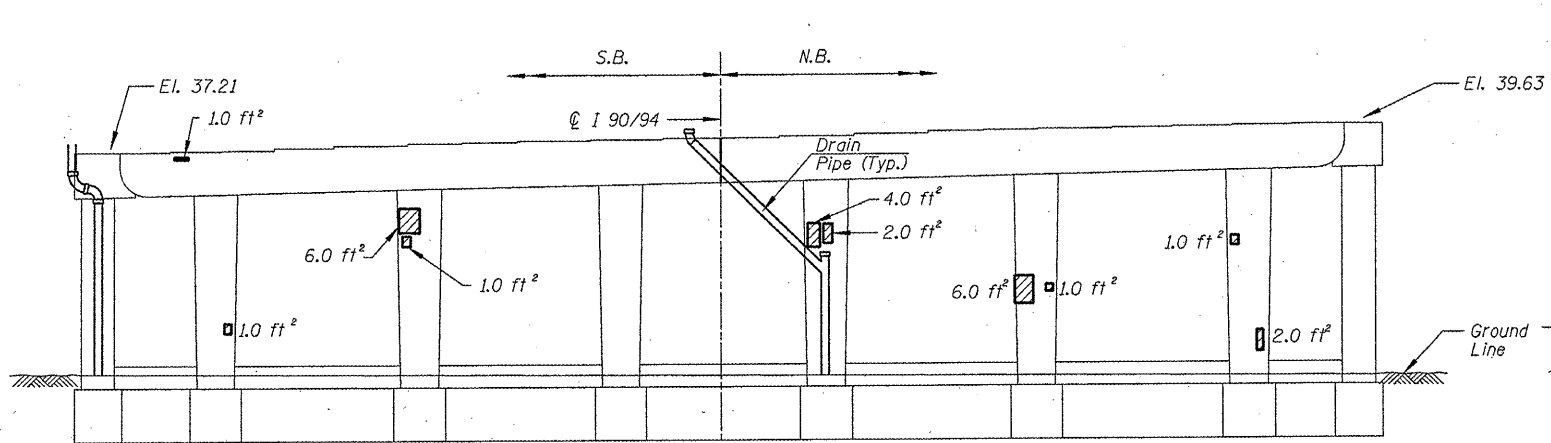
| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 61.0     |

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1110  
PIERS 5 & 6

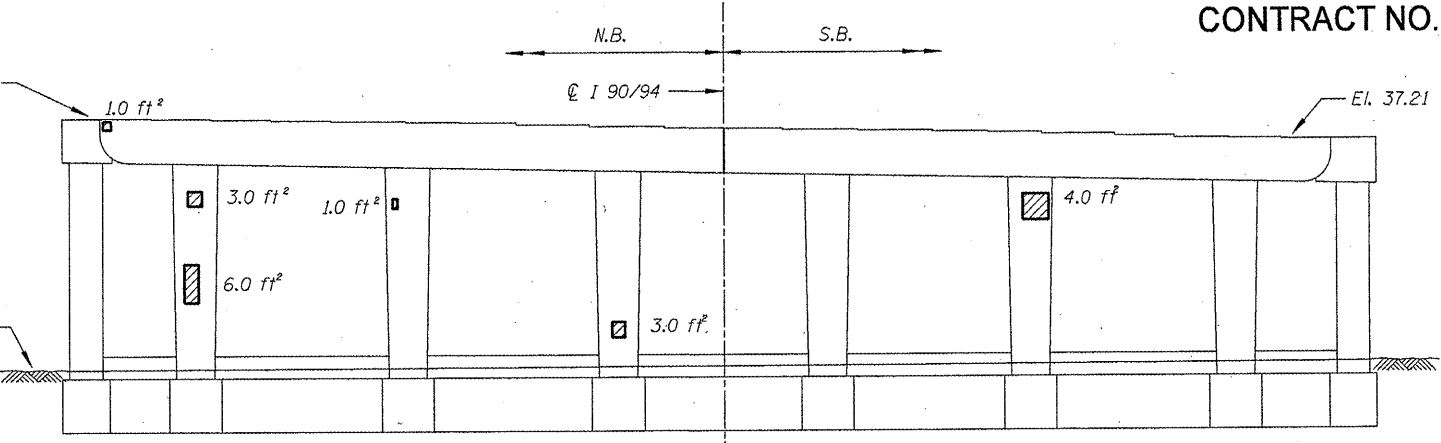
| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-1 | COOK   | 87           | 30           |

CONTRACT NO. 60P27



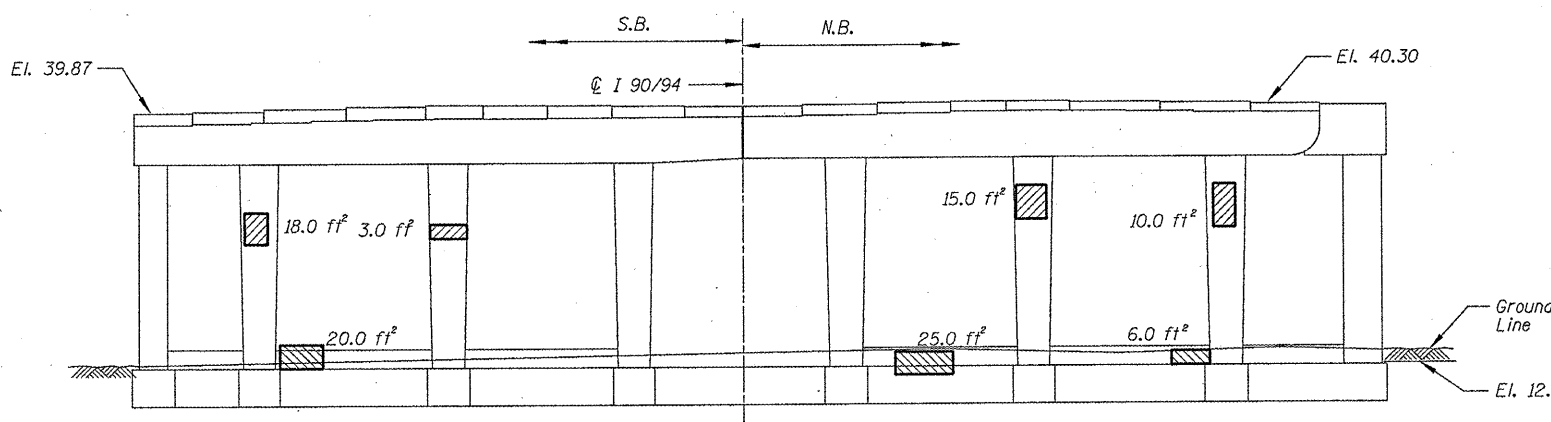
**PIER 1 - SOUTH ELEVATION**

(Looking North)



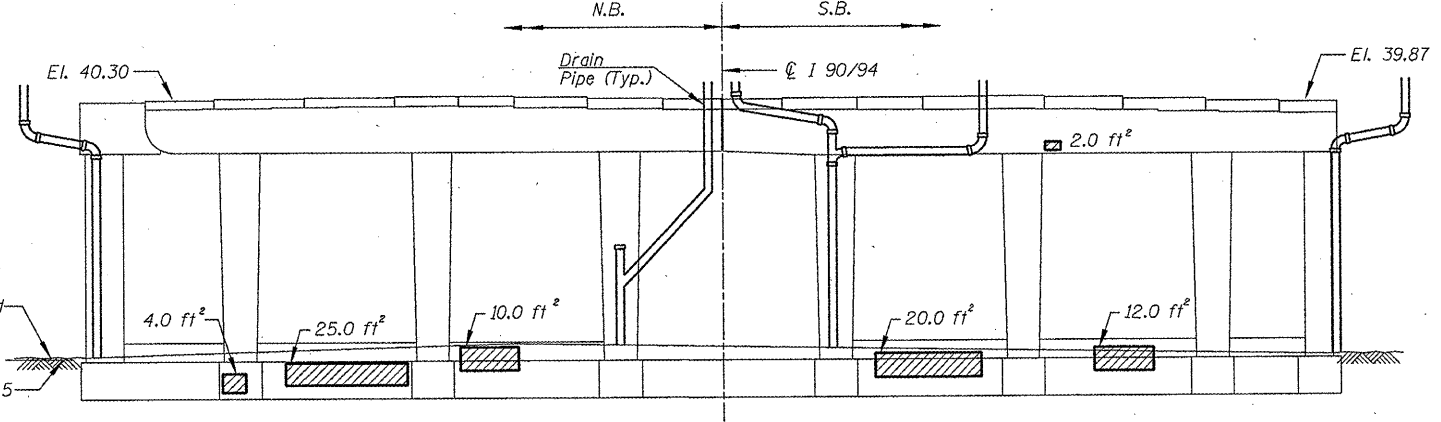
**PIER 1 - NORTH ELEVATION**

(Looking South)



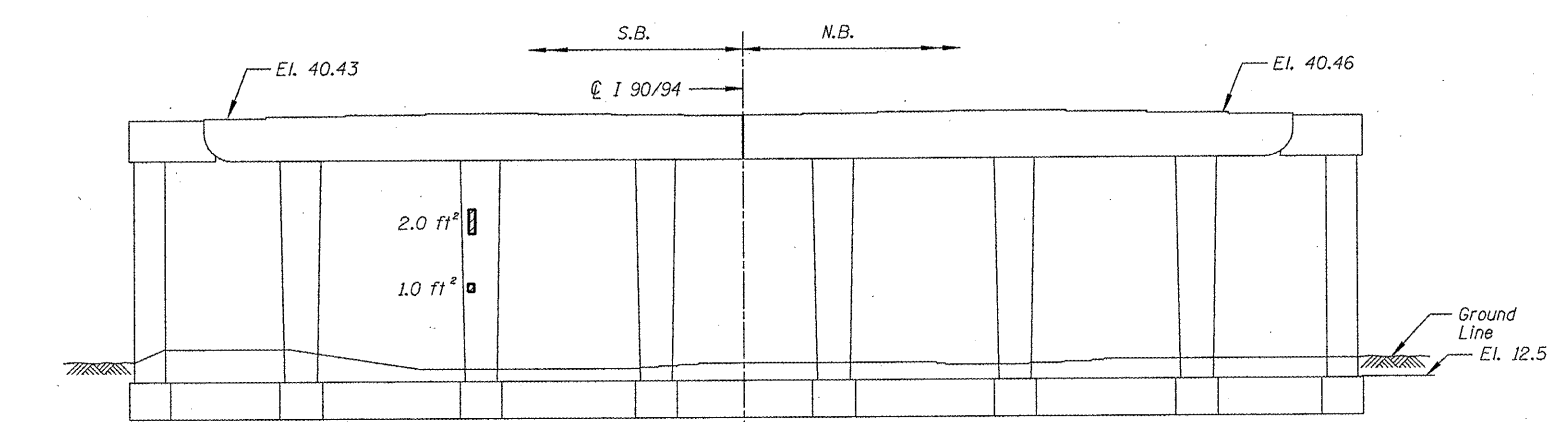
**PIER 2 - SOUTH ELEVATION**

(Looking North)



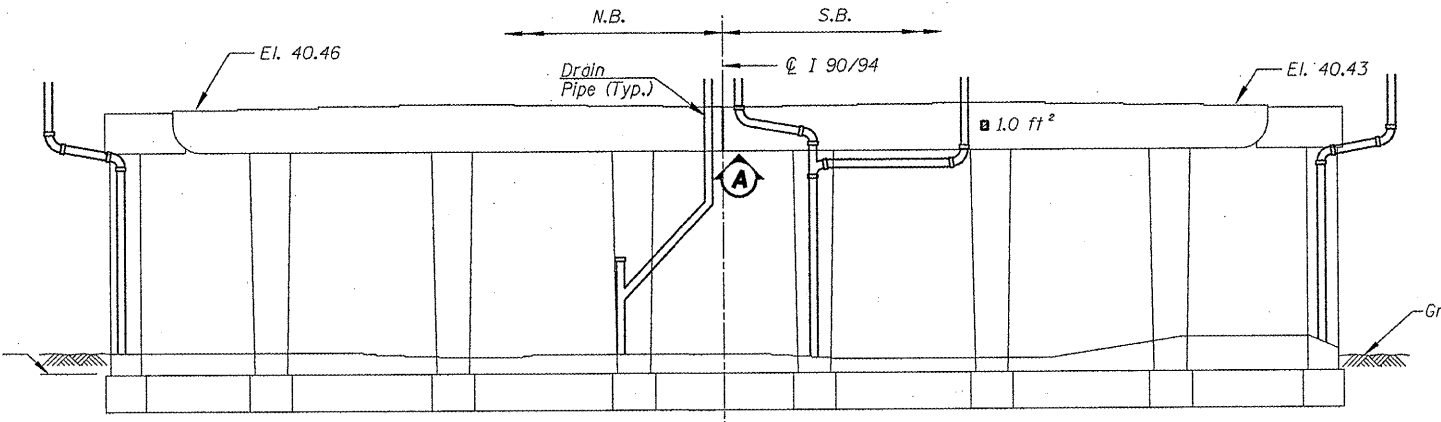
**PIER 2 - NORTH ELEVATION**

(Looking South)



**PIER 3 - SOUTH ELEVATION**

(Looking North)

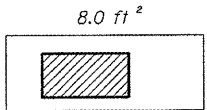
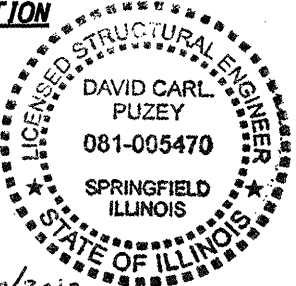


**PIER 3 - NORTH ELEVATION**

(Looking South)

▨ - Structural Repair of Concrete (Depth equal to or less than 5")

*David Carl Puzey*  
5/13/11 Expires 11/30/2012



**PIER 3 - VIEW A**

Looking up at bottom of cap

**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 225.0    |

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS

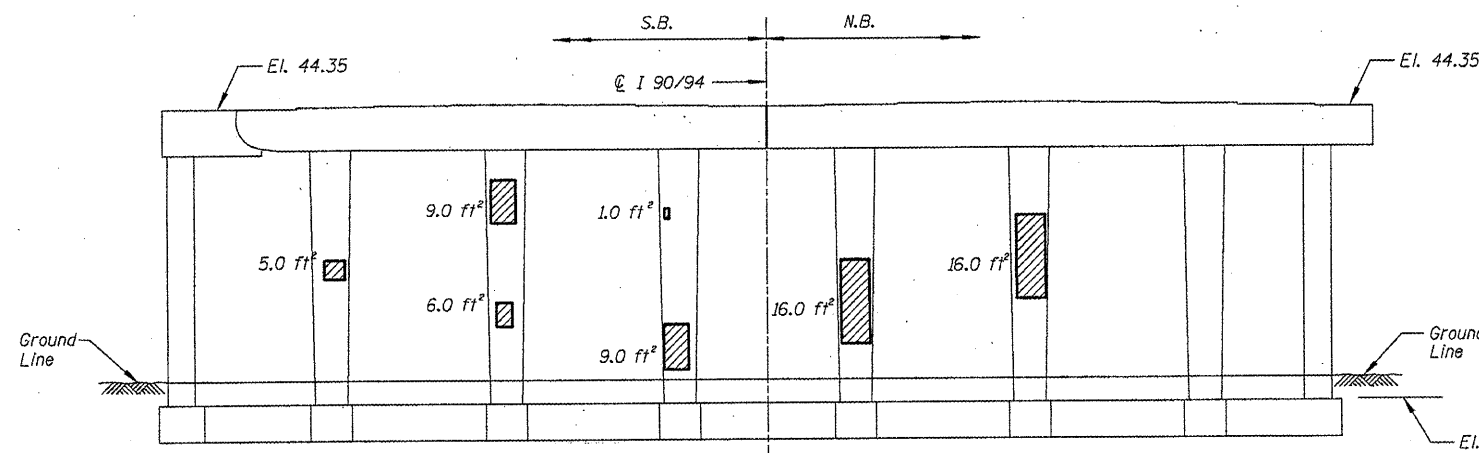
SN 016-1111  
PIERS 1, 2, & 3



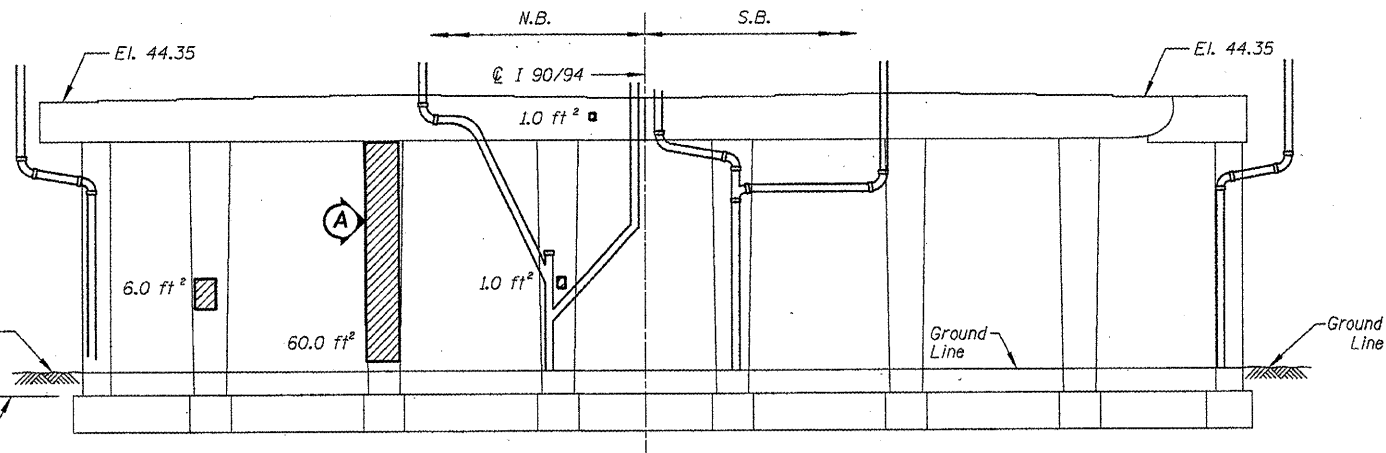


| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 32           |

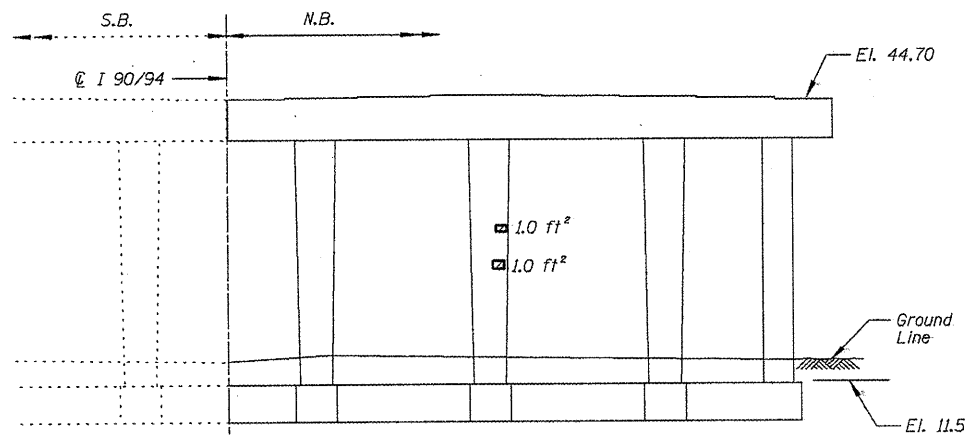
CONTRACT NO. 60P27



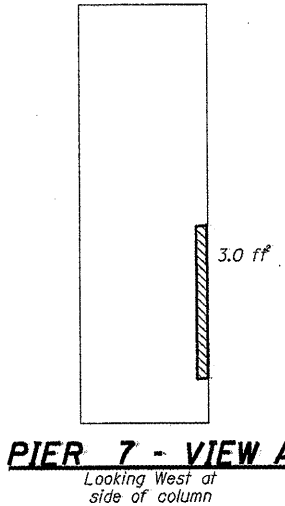
**PIER 7 - SOUTH ELEVATION**  
(Looking North)



**PIER 7 - NORTH ELEVATION**  
(Looking South)



**PIER 8 - SOUTH ELEVATION**  
(Looking North)



▨ - Structural Repair of Concrete (Depth equal to or less than 5")

**BILL OF MATERIAL**

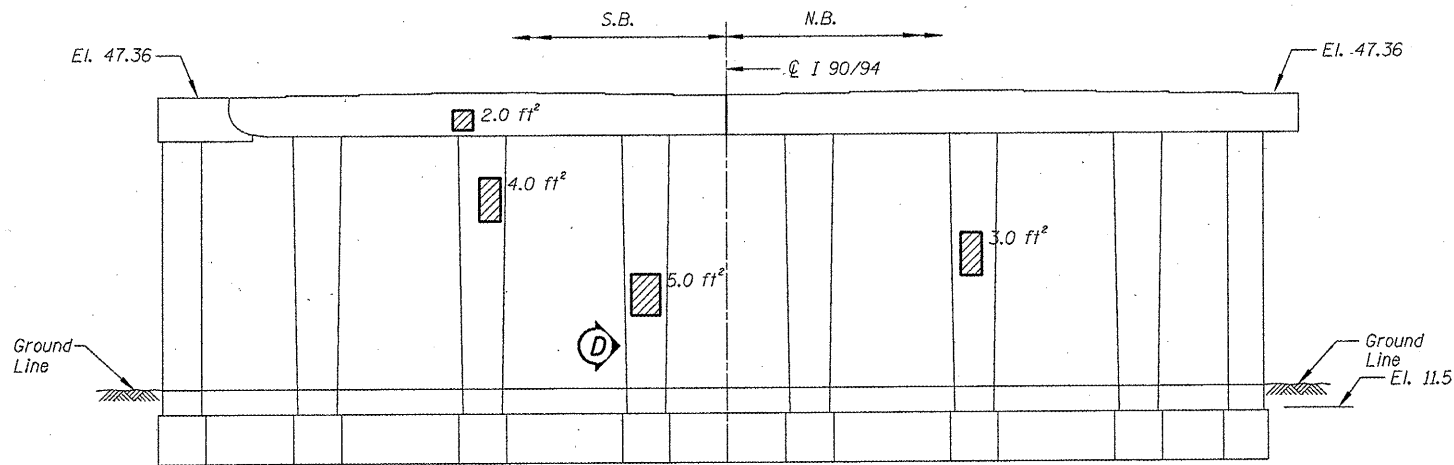
| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 135.0    |

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1111  
PIERS 7 & 8

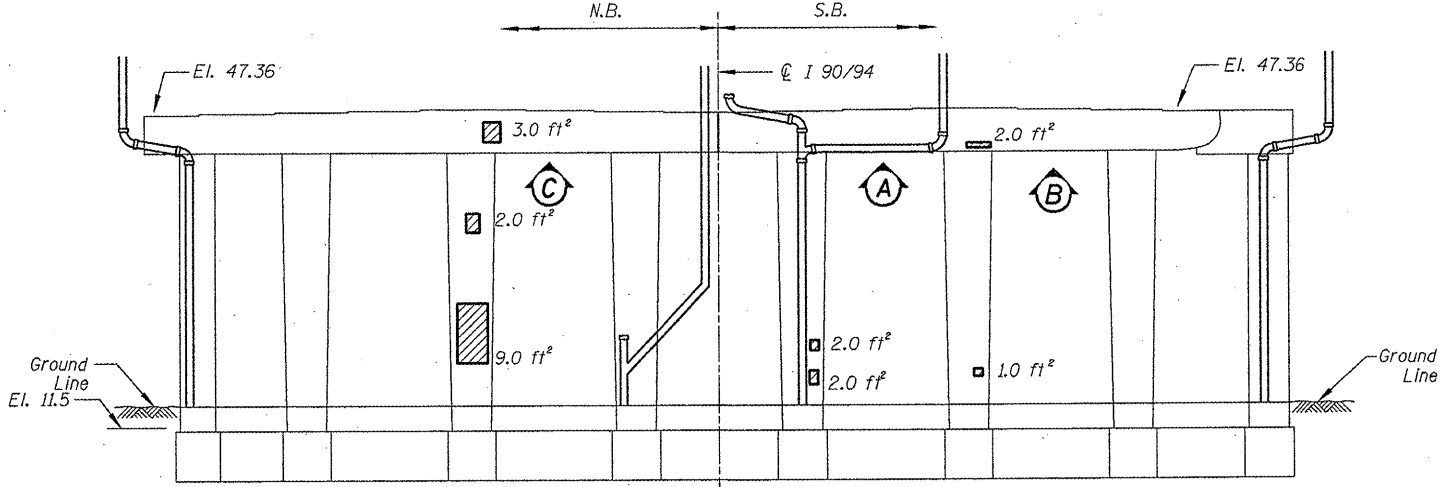


| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 33           |

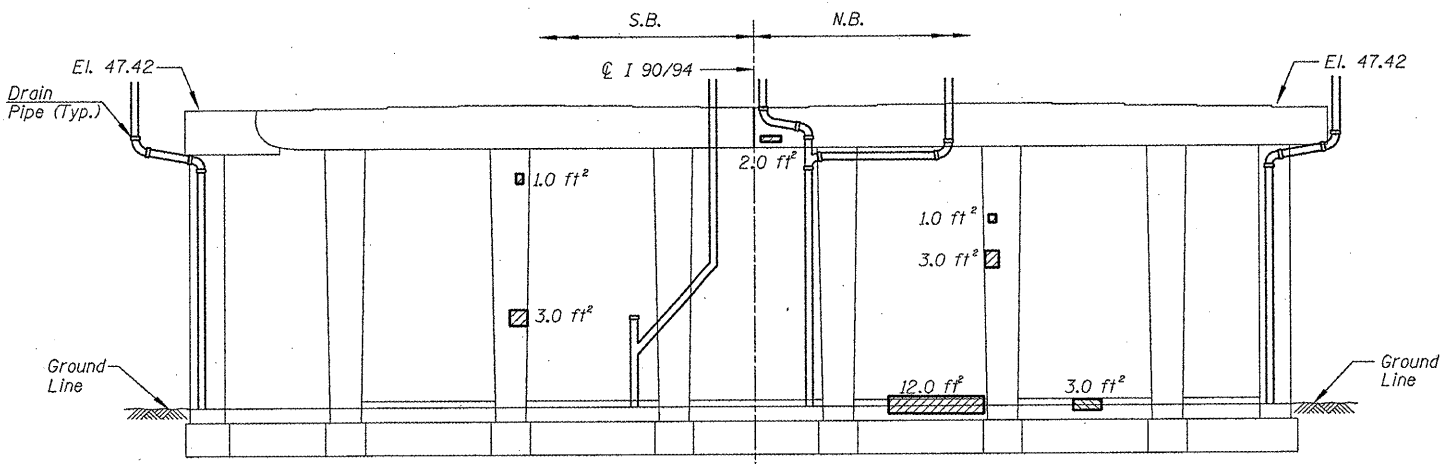
CONTRACT NO. 60P27



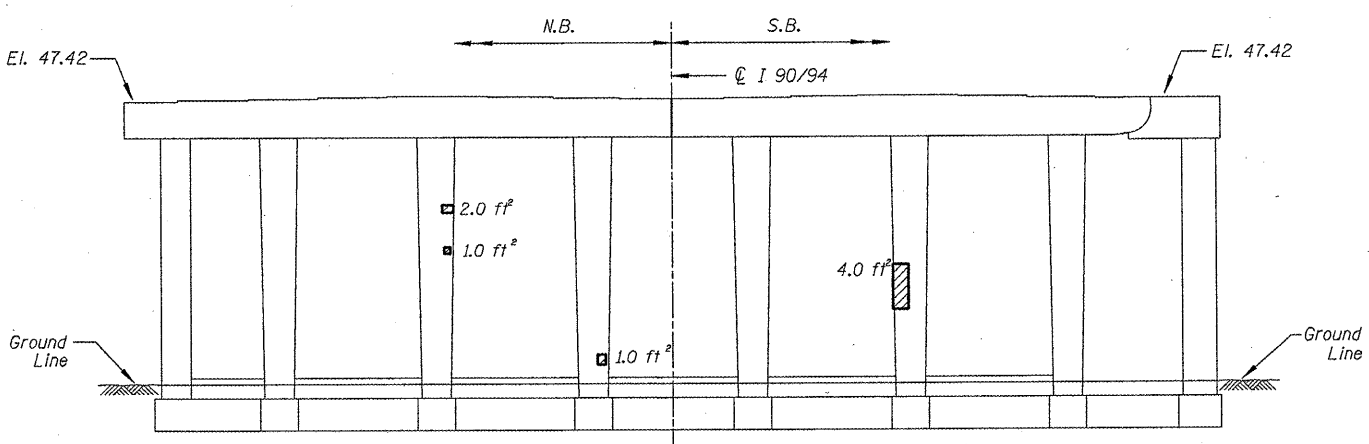
**PIER 10 - SOUTH ELEVATION**  
(Looking North)



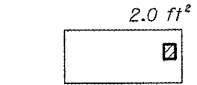
**PIER 10 - NORTH ELEVATION**  
(Looking South)



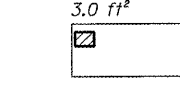
**PIER 11 - SOUTH ELEVATION**  
(Looking North)



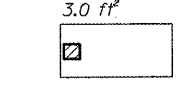
**PIER 11 - NORTH ELEVATION**  
(Looking South)



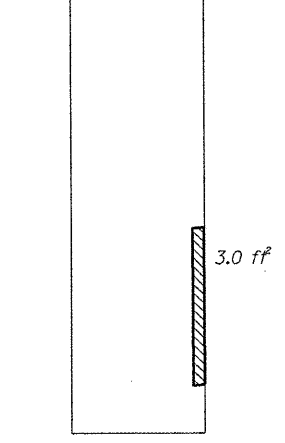
**PIER 10 - VIEW A**  
Looking up at bottom of cap



**PIER 10 - VIEW B**  
Looking up at bottom of cap



**PIER 10 - VIEW C**  
Looking up at bottom of cap



**PIER 10 - VIEW D**  
Looking East at side of column

**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 79.0     |

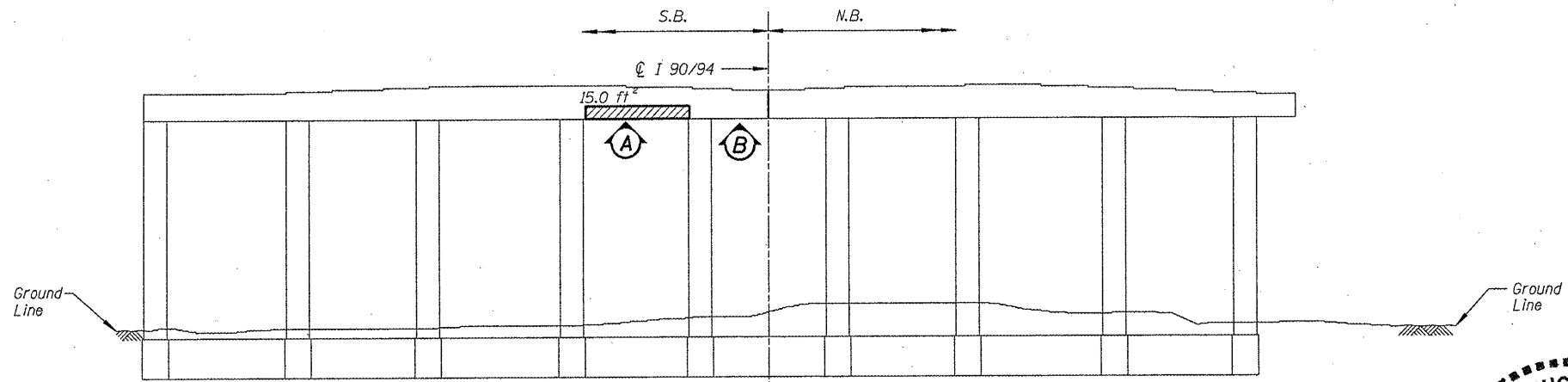
▨ - Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

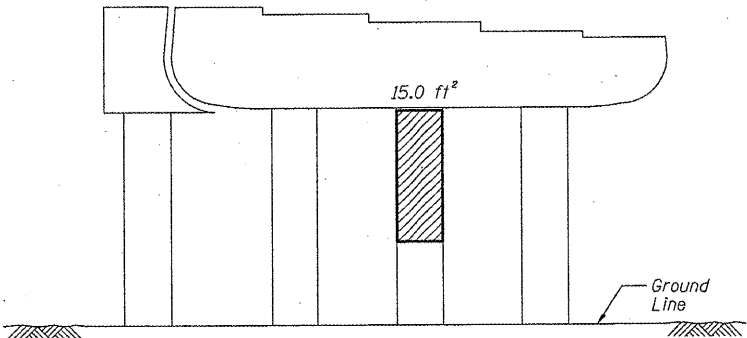
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1111  
PIERS 10 & 11

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 34           |

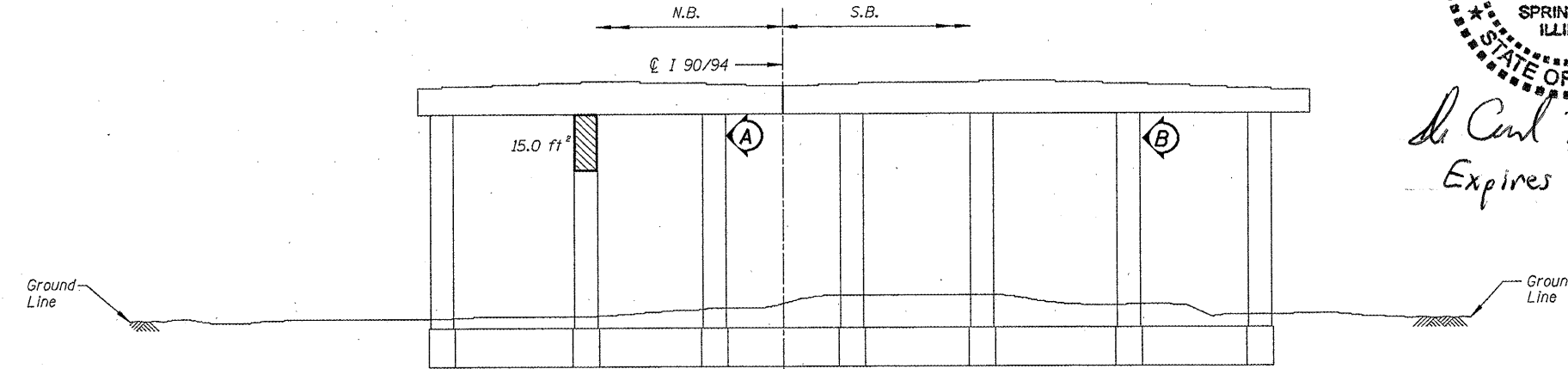
CONTRACT NO. 60P27



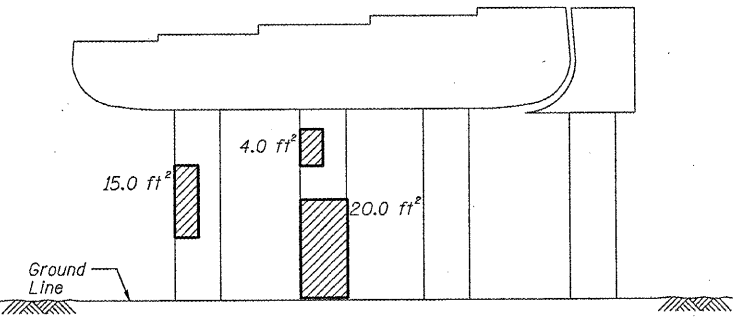
**PIER 12 - SOUTH ELEVATION**  
(Looking North)



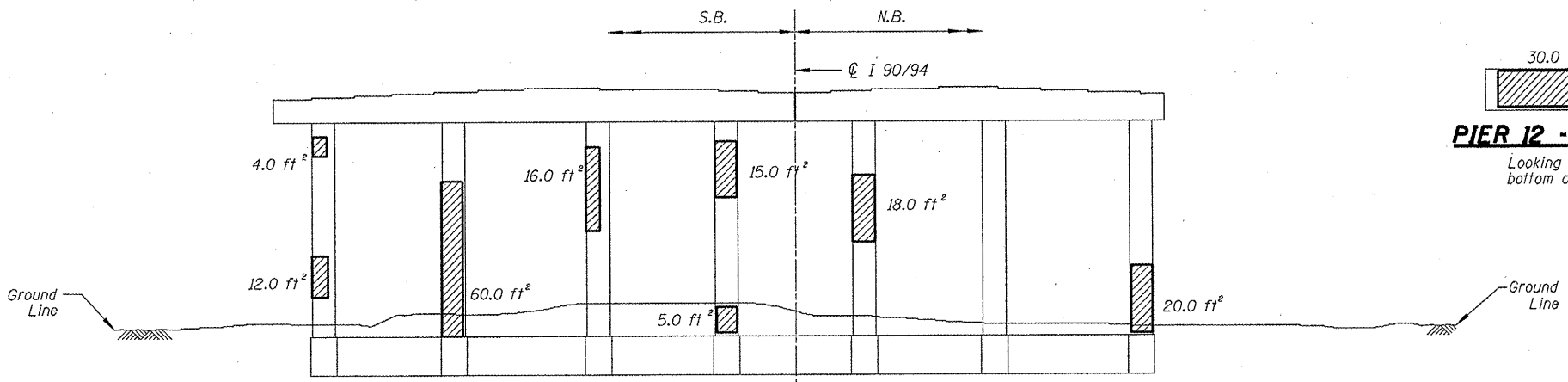
**PIER A-11 - NORTH ELEVATION**  
(Looking South)



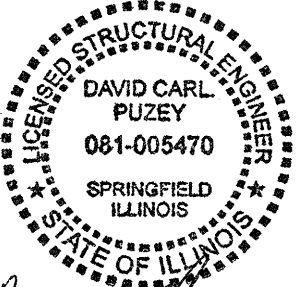
**PIER 11 - NORTH ELEVATION**  
(Looking South)



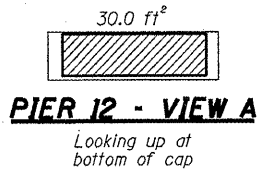
**PIER A-11 - SOUTH ELEVATION**  
(Looking North)



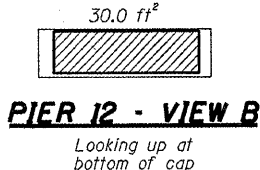
**PIER 11 - SOUTH ELEVATION**  
(Looking North)



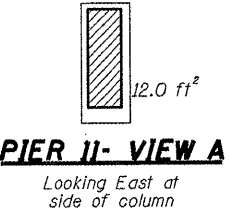
*David Carl Puzey* 5/13/11  
Expires 11/30/2012



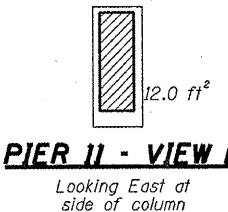
**PIER 12 - VIEW A**  
Looking up at bottom of cap



**PIER 12 - VIEW B**  
Looking up at bottom of cap



**PIER 11 - VIEW A**  
Looking East at side of column



**PIER 11 - VIEW B**  
Looking East at side of column

**BILL OF MATERIAL**

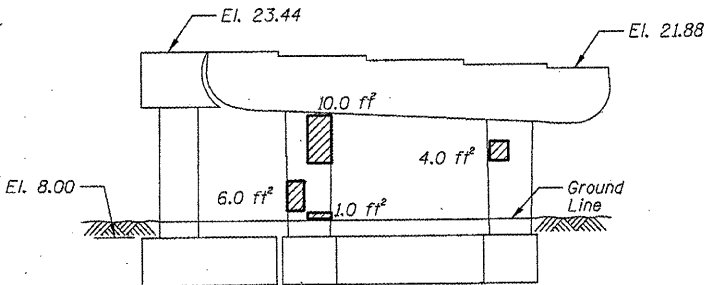
| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 318.0    |

▨ - Structural Repair of Concrete (Depth equal to or less than 5")

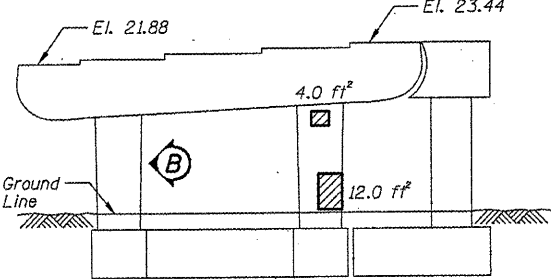
ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1112  
PIERS 11, 12, & A-11

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 35           |

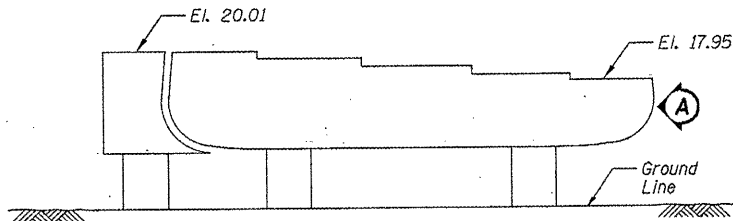
CONTRACT NO. 60P27



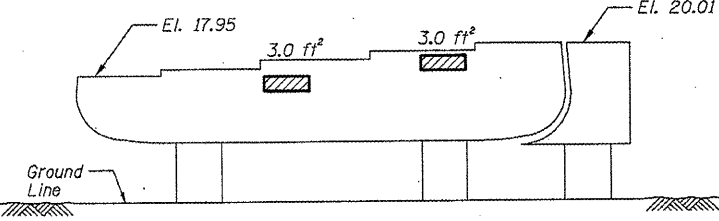
**PIER D-12 - SOUTH ELEVATION**  
(Looking North)



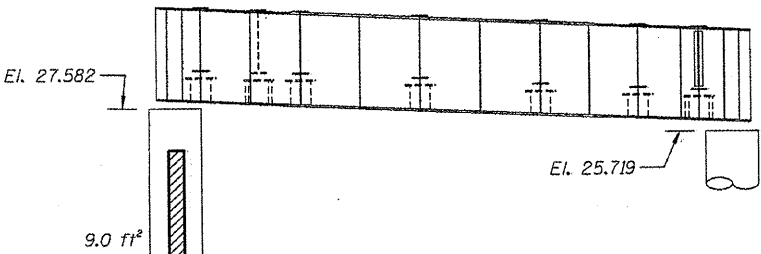
**PIER D-12 - NORTH ELEVATION**  
(Looking South)



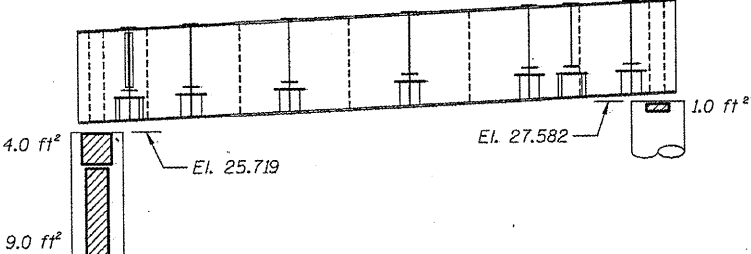
**PIER D-13 - SOUTH ELEVATION**  
(Looking North)



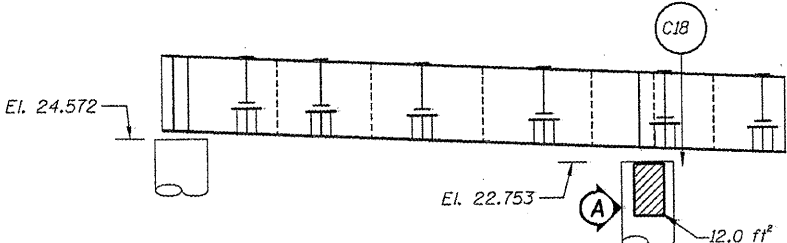
**PIER D-13 - NORTH ELEVATION**  
(Looking South)



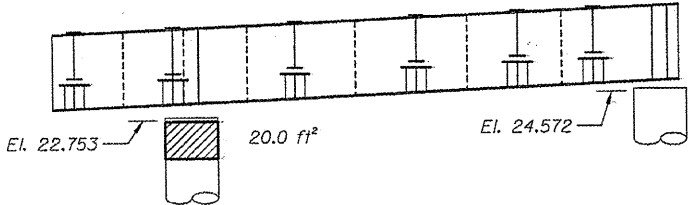
**PIER C-16 - SOUTH ELEVATION**  
(Looking North)



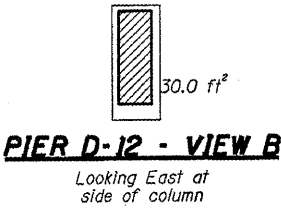
**PIER C-16 - NORTH ELEVATION**  
(Looking South)



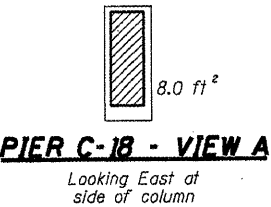
**PIER C-18 - SOUTH ELEVATION**  
(Looking North)



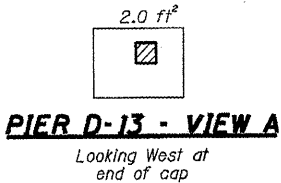
**PIER C-18 - NORTH ELEVATION**  
(Looking South)



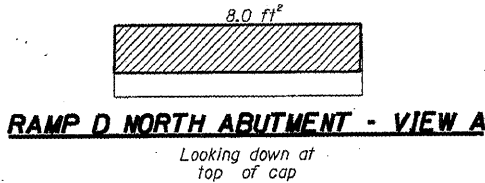
**PIER D-12 - VIEW B**



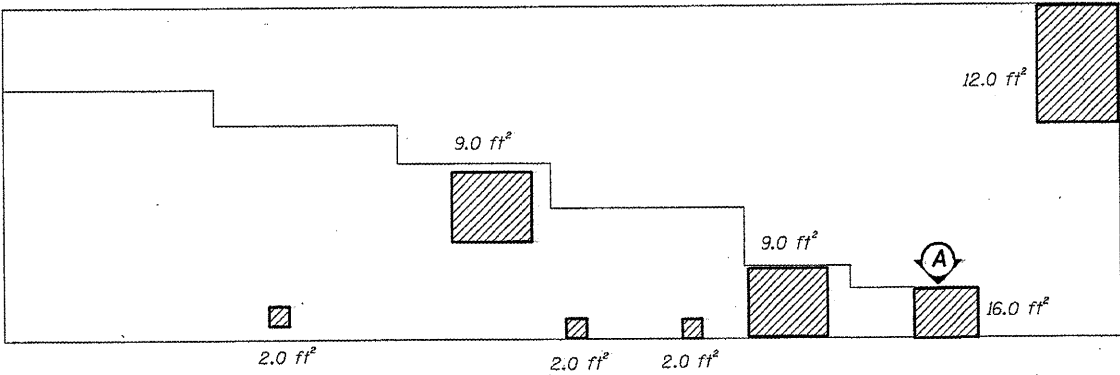
**PIER C-18 - VIEW A**



**PIER D-13 - VIEW A**



**RAMP D NORTH ABUTMENT - VIEW A**



**RAMP D - NORTH ABUTMENT**  
(Looking North)

**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 198.0    |
| Temporary Shoring and Cribbing                                 | EACH    | 1        |

**REACTION TABLE**

| PIER C18        | SPAN C17  |
|-----------------|-----------|
| Reaction DL     | 34.5 kips |
| Reaction LL     | 29.0 kips |
| Reaction Impact | 6.6 kips  |
| Reaction Total  | 70.1 kips |

▨ - Structural Repair of Concrete (Depth equal to or less than 5")

Beam # - Temporary Shoring and Cribbing

See Sheet 20 for location of beam.

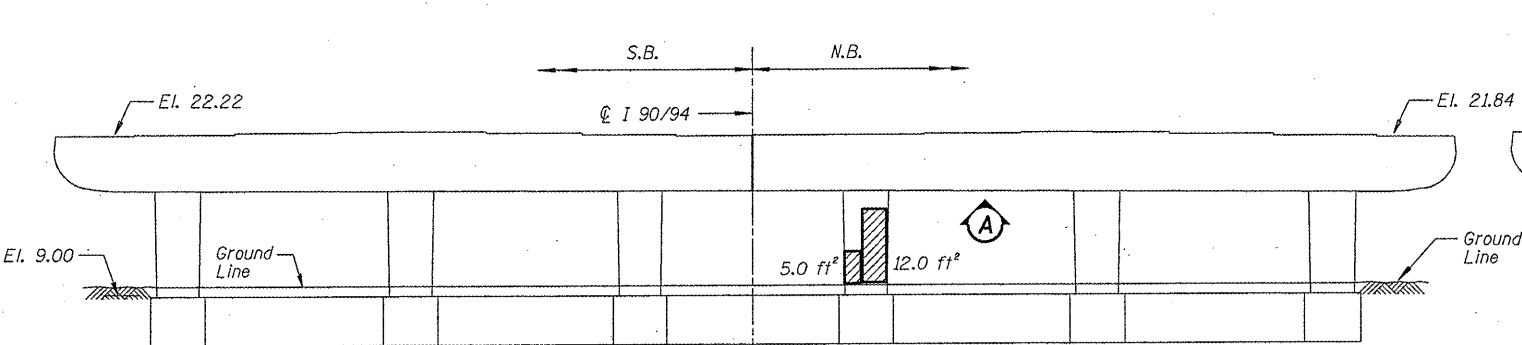
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1112

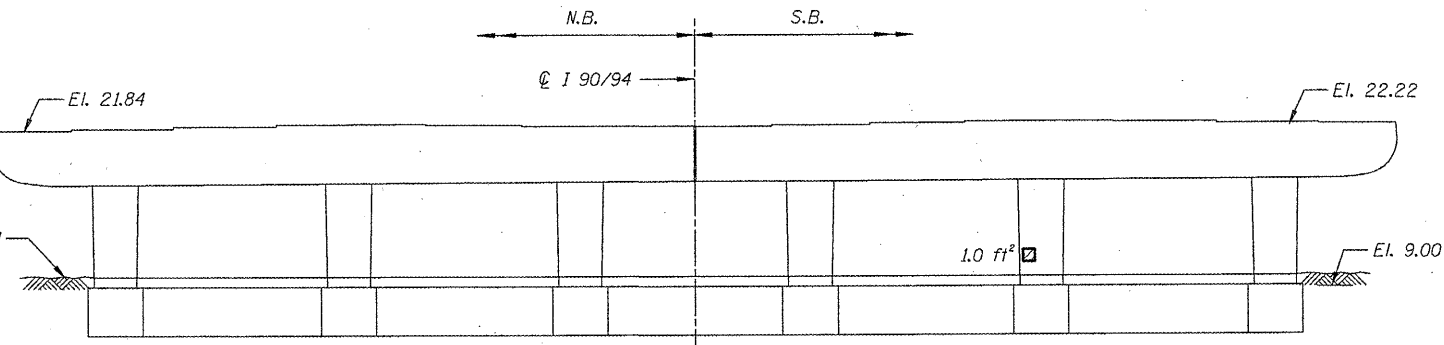
PIERS D-12, D-13, C-16, C-18, & N ABUT.

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 36           |

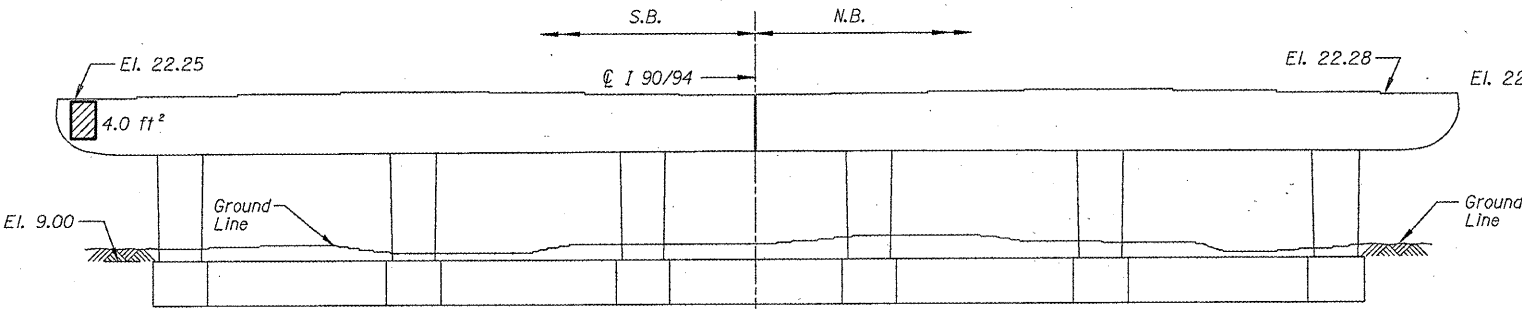
CONTRACT NO. 60P27



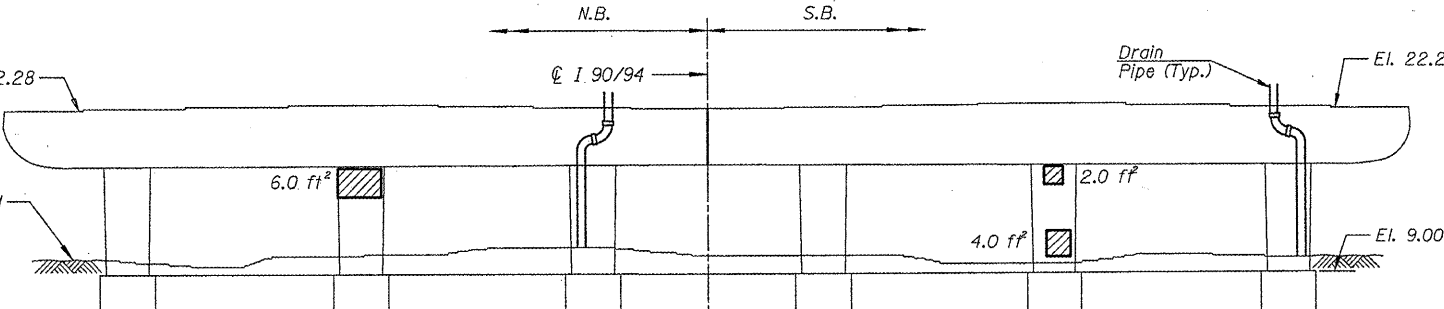
**PIER 16 - SOUTH ELEVATION**  
(Looking North)



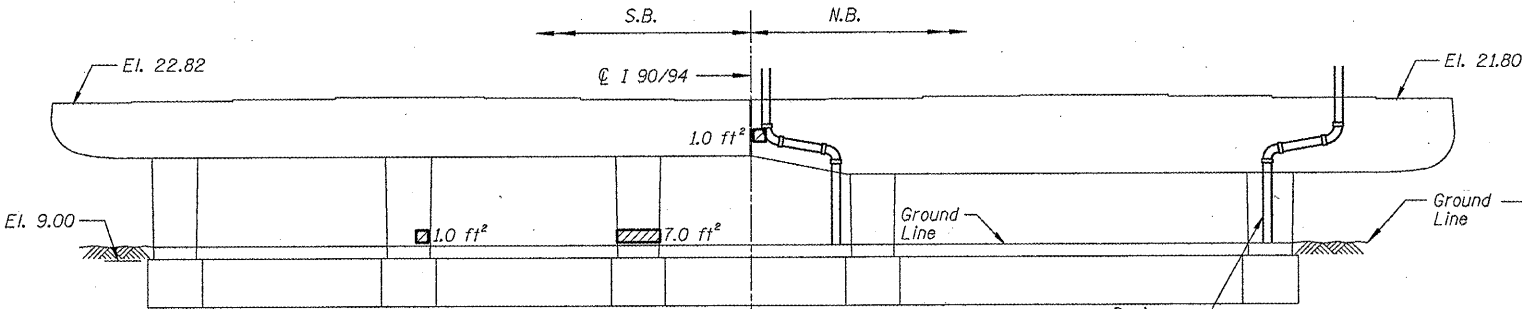
**PIER 16 - NORTH ELEVATION**  
(Looking South)



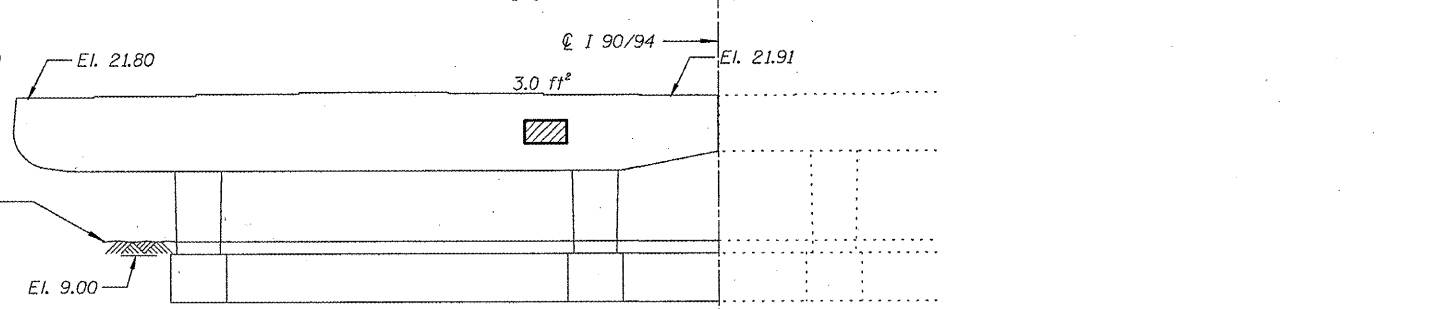
**PIER 17 - SOUTH ELEVATION**  
(Looking North)



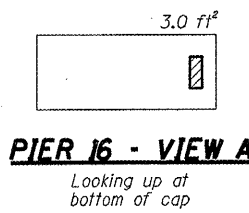
**PIER 17 - NORTH ELEVATION**  
(Looking South)



**PIER 18 - SOUTH ELEVATION**  
(Looking North)



**PIER 18 - NORTH ELEVATION**  
(Looking South)



**PIER 16 - VIEW A**  
(Looking up at bottom of cap)

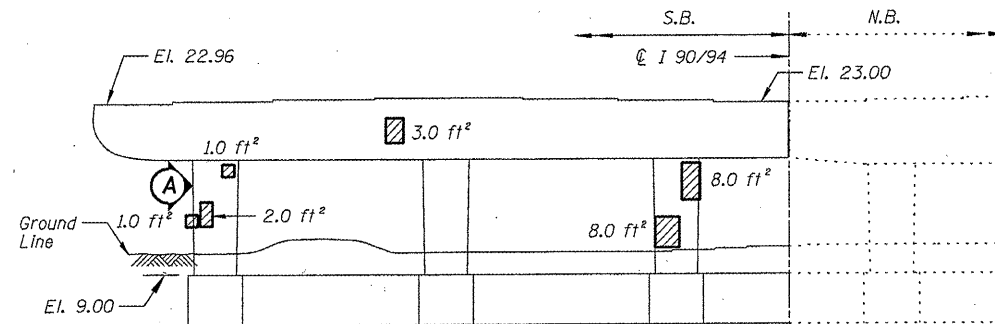
| BILL OF MATERIAL                                               |         |          |
|----------------------------------------------------------------|---------|----------|
| ITEM                                                           | UNIT    | QUANTITY |
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 49.0     |

▨ - Structural Repair of Concrete (Depth equal to or less than 5")

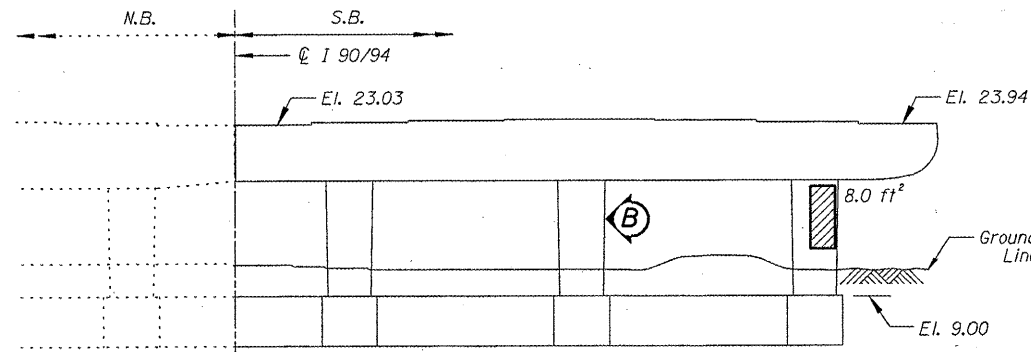
ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1112  
PIERS 16, 17, & 18

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 37           |

CONTRACT NO. 60P27



**PIER 19 - SOUTH ELEVATION**  
(Looking North)

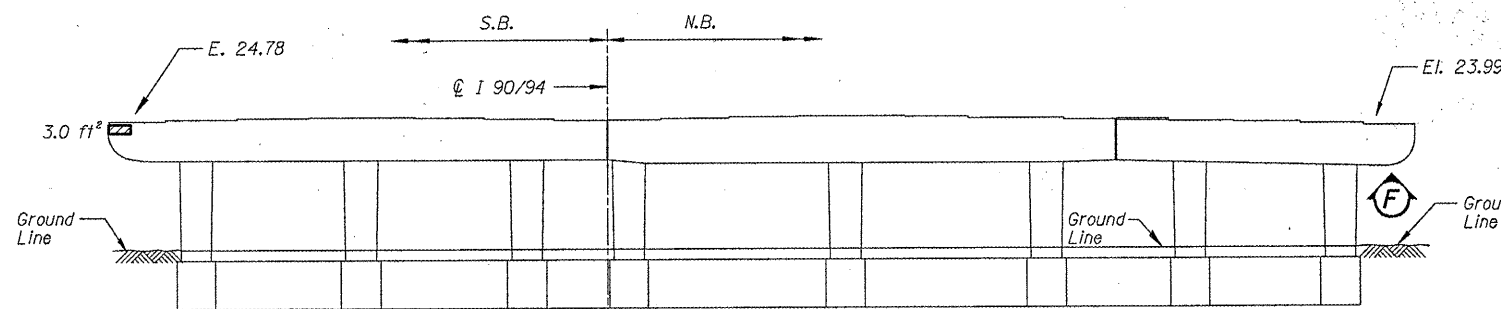


**PIER 19 - NORTH ELEVATION**  
(Looking South)

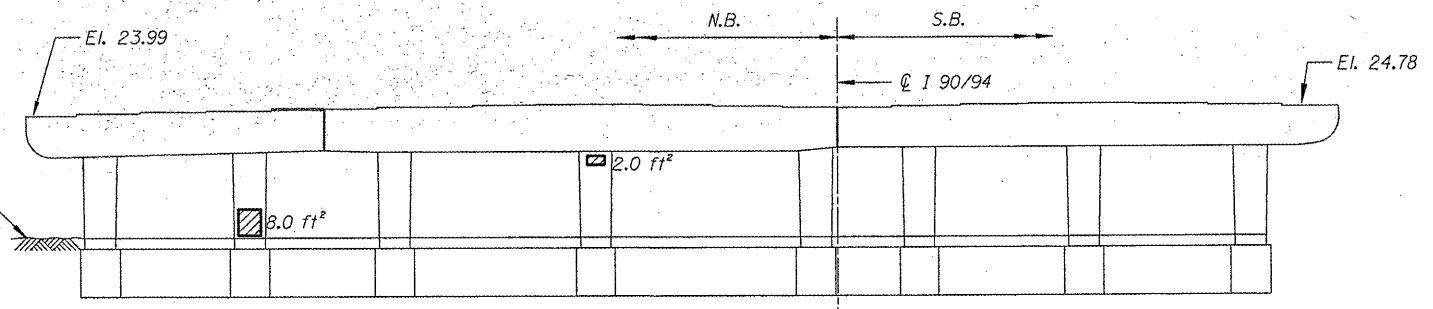
**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 84.0     |

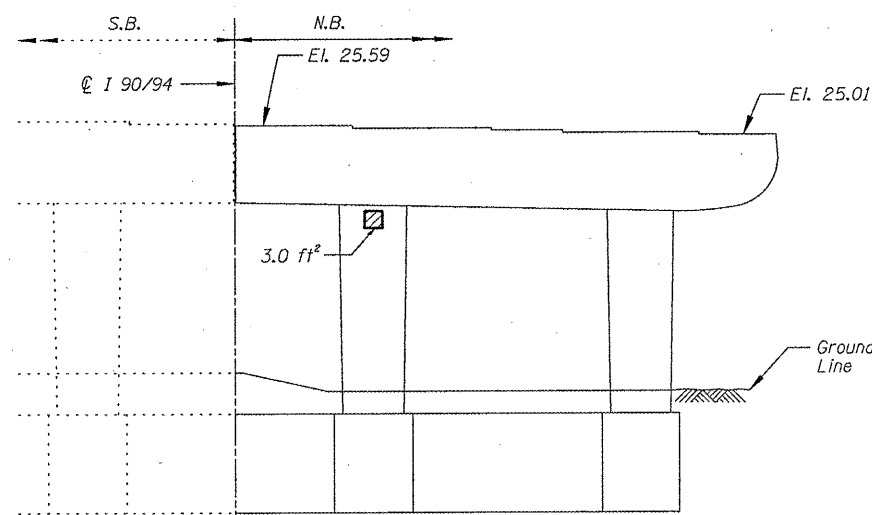
▨ - Structural Repair of Concrete (Depth equal to or less than 5")



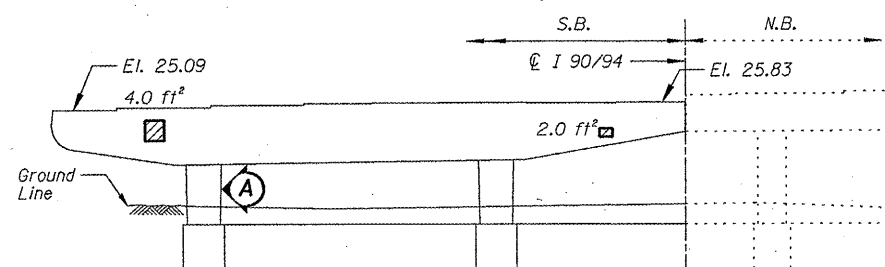
**PIER 20 - SOUTH ELEVATION**  
(Looking North)



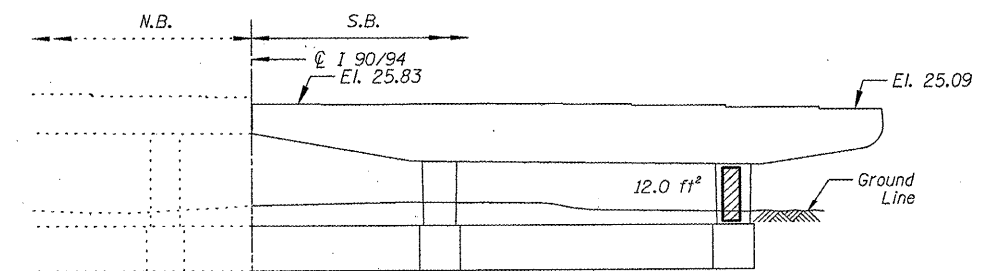
**PIER 20 - NORTH ELEVATION**  
(Looking South)



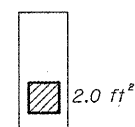
**PIER 21 - SOUTH ELEVATION**  
(Looking North)



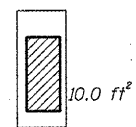
**PIER 22 - SOUTH ELEVATION**  
(Looking North)



**PIER 22 - NORTH ELEVATION**  
(Looking South)



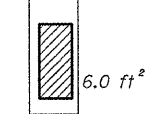
**PIER 19- VIEW A**  
Looking East at  
side of column



**PIER 19- VIEW B**  
Looking East at  
side of column



**PIER 20 - VIEW F**  
Looking up  
at bottom  
of cap



**PIER 22- VIEW A**  
Looking West at  
side of column

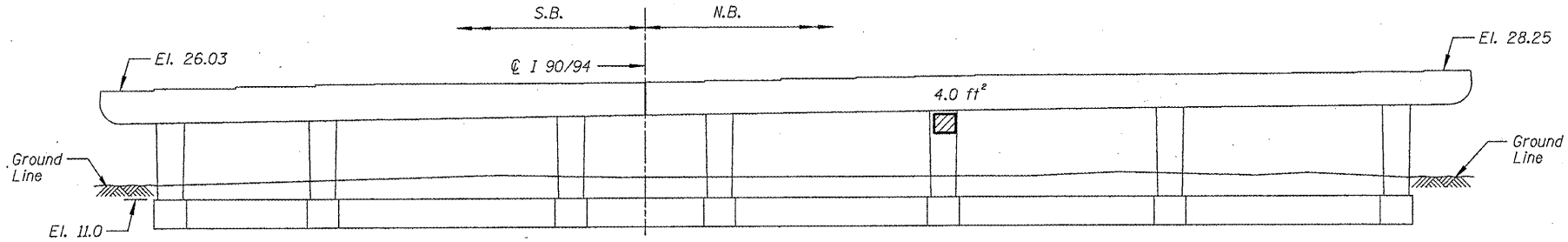
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1112  
PIERS 19 - 22

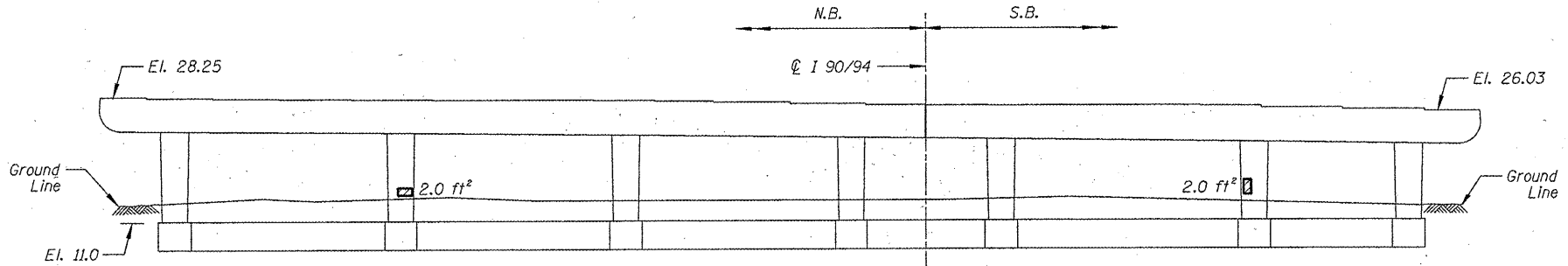


| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 38           |

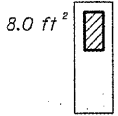
CONTRACT NO. 60P27



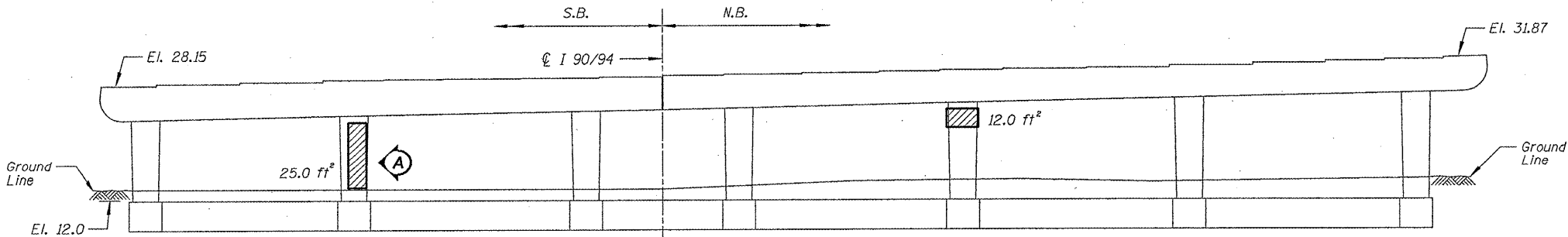
**PIER 23 - SOUTH ELEVATION**  
(Looking North)



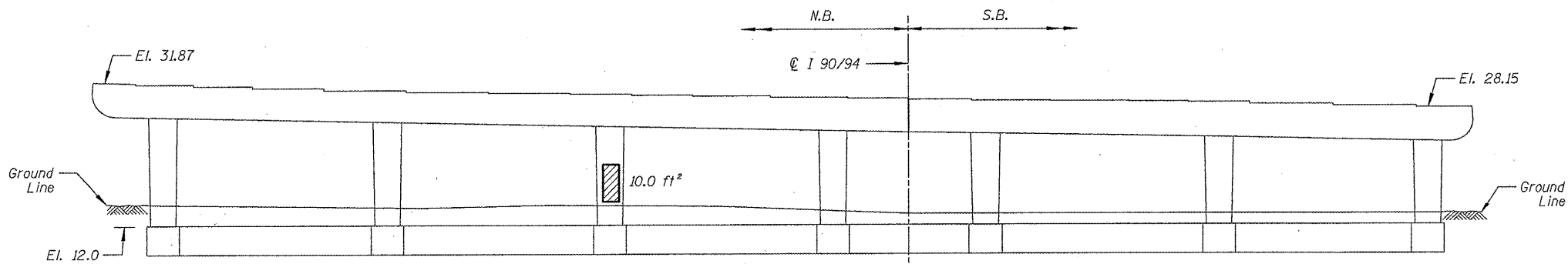
**PIER 23 - NORTH ELEVATION**  
(Looking South)



**PIER 24 - VIEW A**  
Looking West at  
side of column



**PIER 24 - SOUTH ELEVATION**  
(Looking North)



**PIER 24 - NORTH ELEVATION**  
(Looking South)

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 63.0     |

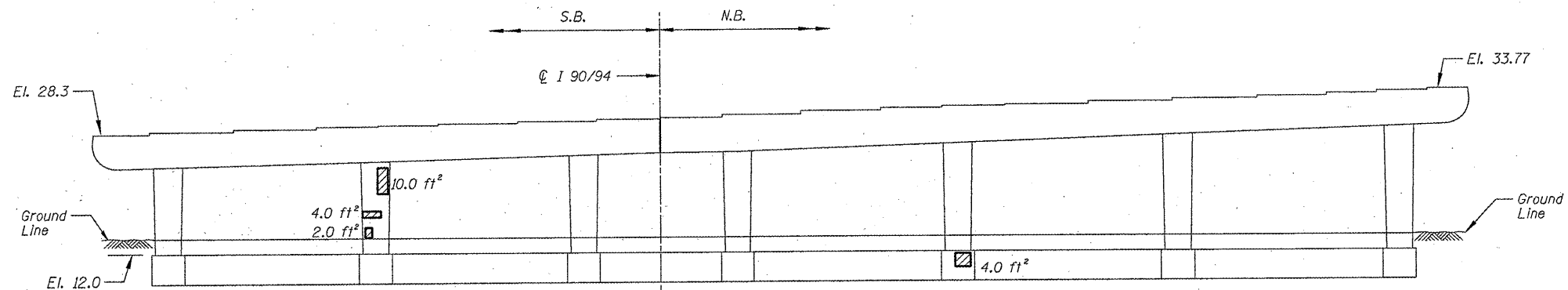
 - Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

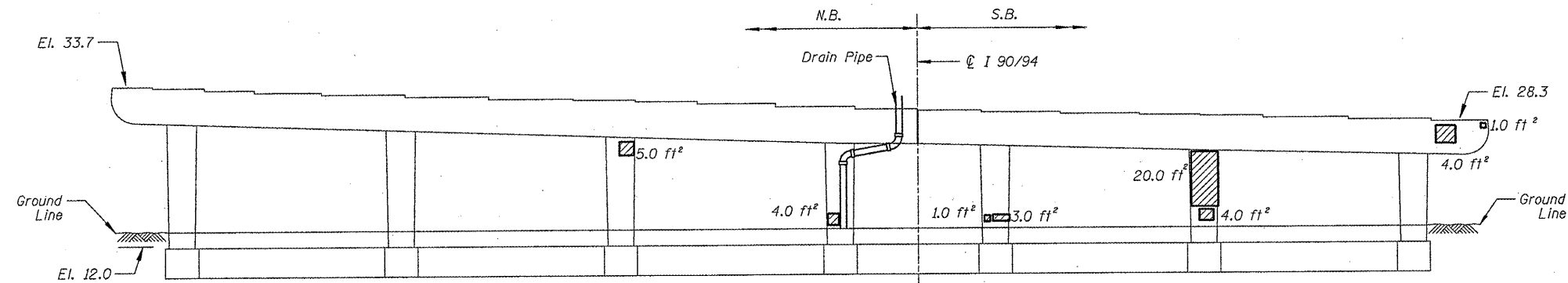
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1112  
PIERS 23 & 24

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 39           |

CONTRACT NO. 60P27



**PIER 25 - SOUTH ELEVATION**  
(Looking North)



**PIER 25 - NORTH ELEVATION**  
(Looking South)

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 62.0     |

 - Structural Repair of Concrete (Depth equal to or less than 5")

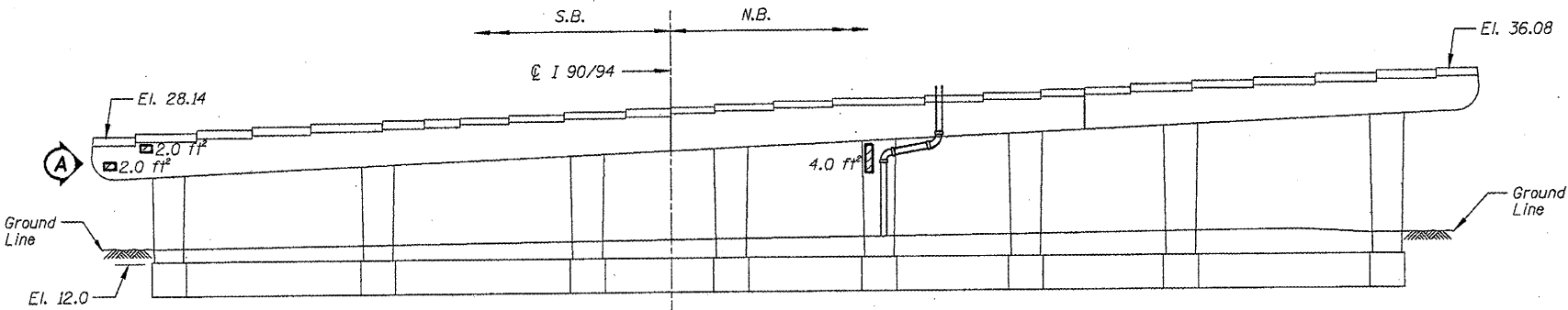
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1112  
PIER 25

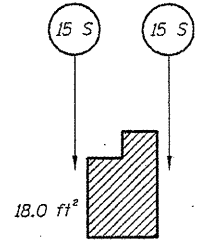


| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 40           |

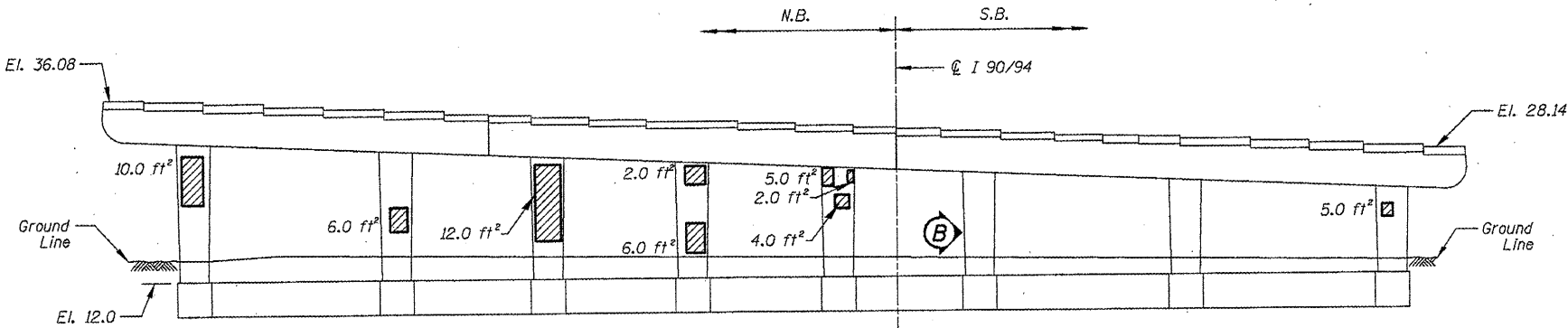
CONTRACT NO. 60P27



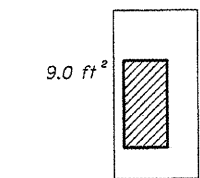
**PIER 28 - SOUTH ELEVATION**  
(Looking North)



**PIER 28 - VIEW A**  
Looking east at end of cap.

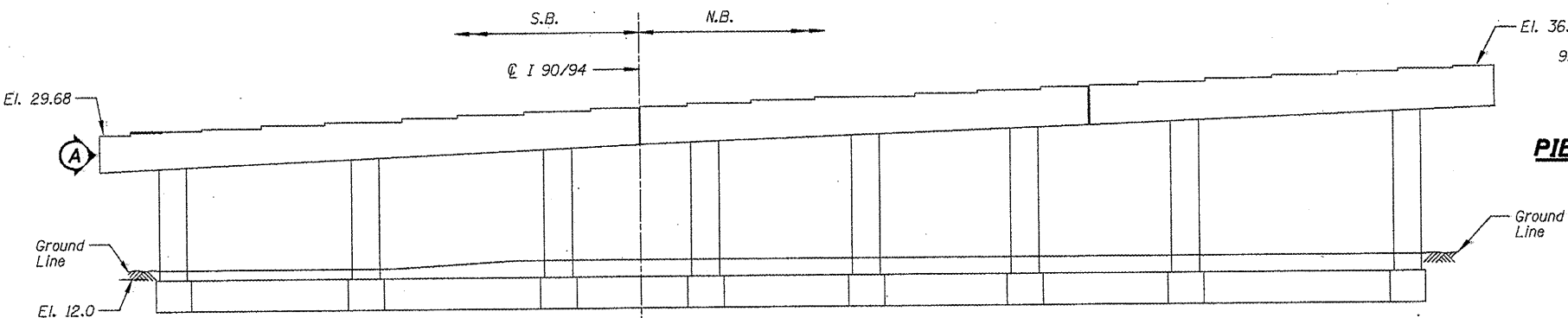


**PIER 28 - NORTH ELEVATION**  
(Looking South)

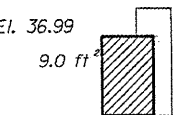


**PIER 28 - VIEW B**  
Looking West at side of column

▨ - Structural Repair of Concrete (Depth equal to or less than 5")



**PIER 29 - SOUTH ELEVATION**  
(Looking North)



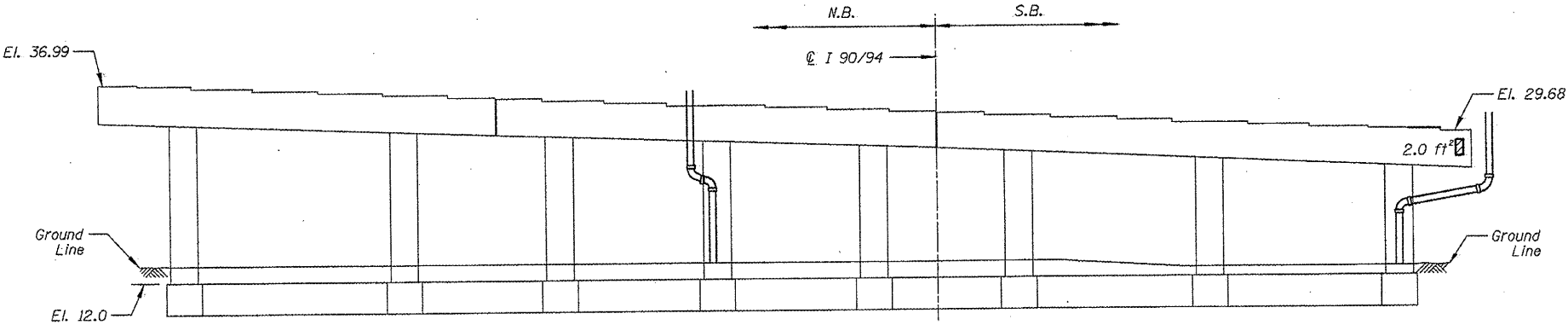
**PIER 29 - VIEW A**  
Looking east at end of cap

| REACTION TABLE  |           |           |
|-----------------|-----------|-----------|
| PIER 28         | SPAN 28   | SPAN 26   |
| Reaction DL     | 43.8 kips | 34.5 kips |
| Reaction LL     | 45.0 kips | 29.4 kips |
| Reaction Impact | 10.3 kips | 6.7 kips  |
| Reaction Total  | 99.1 kips | 70.6 kips |

**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 98.0     |
| Temporary Shoring and Cribbing                                 | EACH    | 2        |

Beam # - Temporary Shoring and Cribbing  
See Sheet 19 for location of beam.

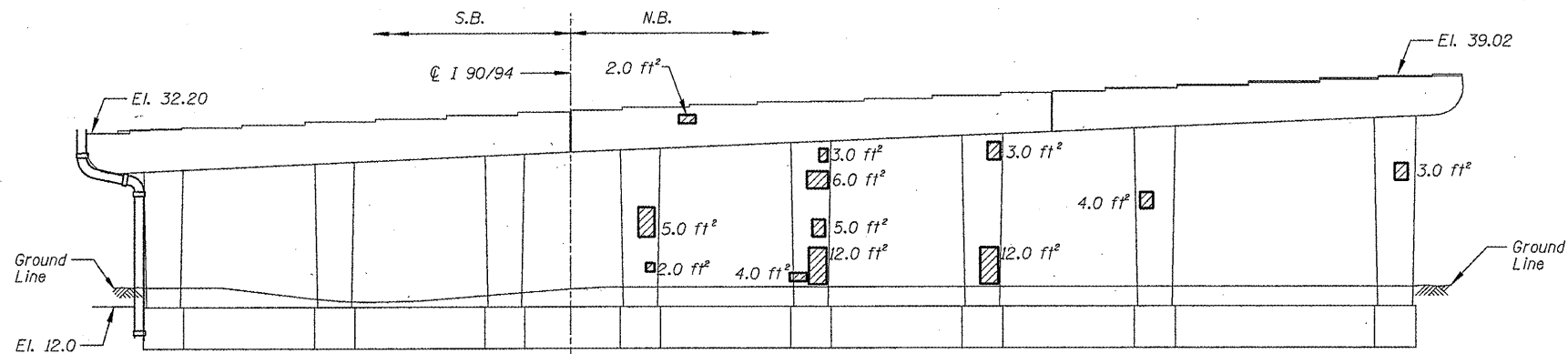


**PIER 29 - NORTH ELEVATION**  
(Looking South)

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1112  
PIERS 28 & 29

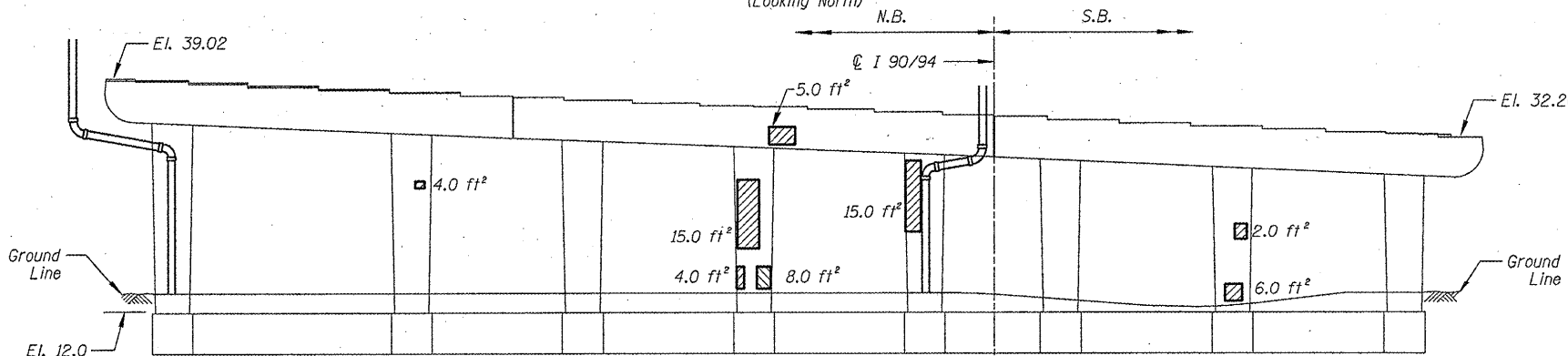
| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 41           |

CONTRACT NO. 60P27



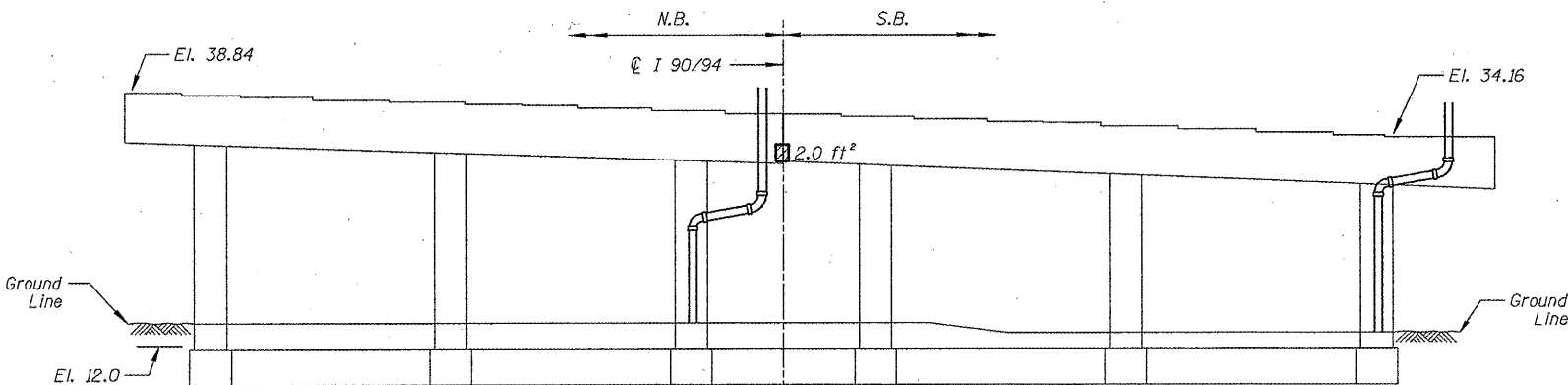
**PIER 30 - SOUTH ELEVATION**

(Looking North)



**PIER 30 - NORTH ELEVATION**

(Looking South)



**PIER 31 - NORTH ELEVATION**

(Looking South)

**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 122.0    |

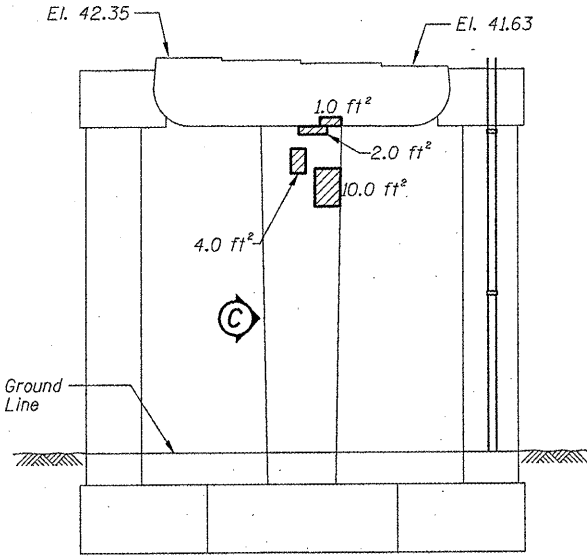
 - Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

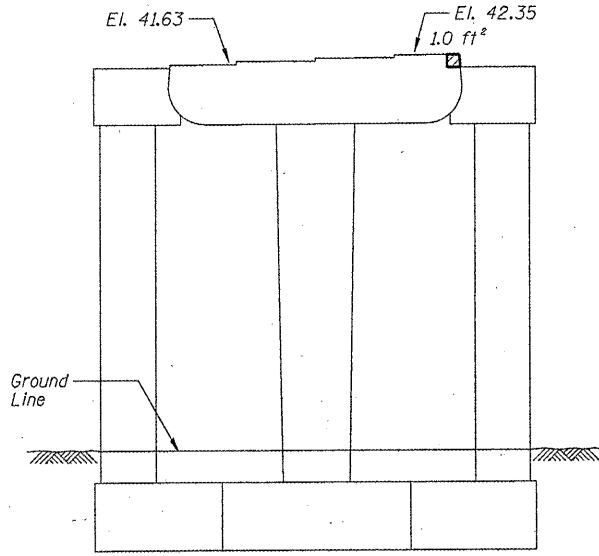
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1112  
PIERS 30 & 31

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 42           |

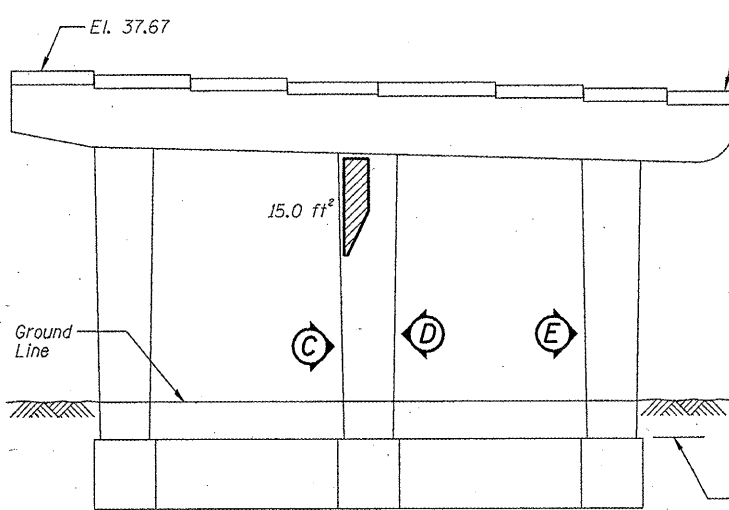
CONTRACT NO. 60P27



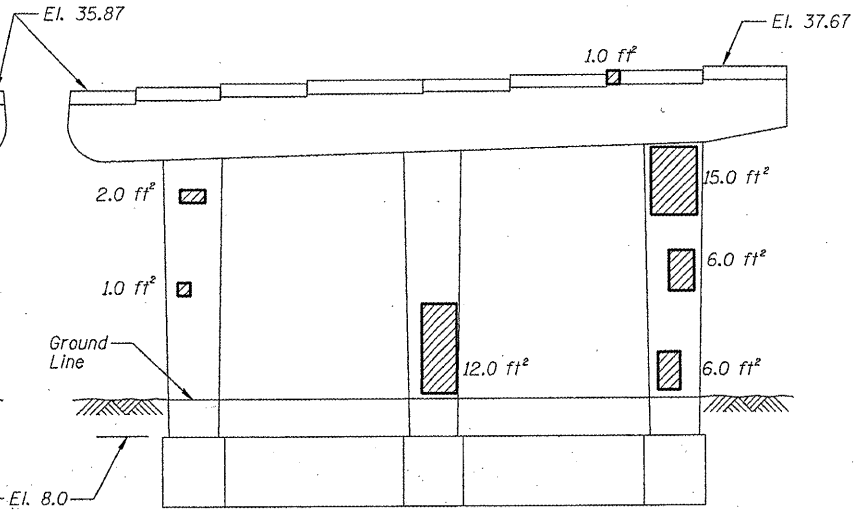
**PIER D-7 - SOUTH ELEVATION**  
(Looking North)



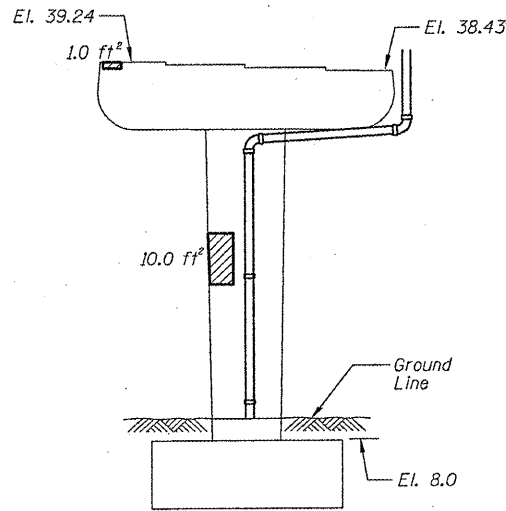
**PIER D-7 - NORTH ELEVATION**  
(Looking South)



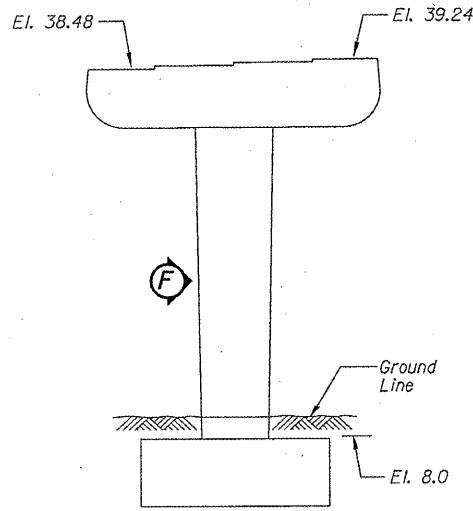
**PIER D-9 - SOUTH ELEVATION**  
(Looking North)



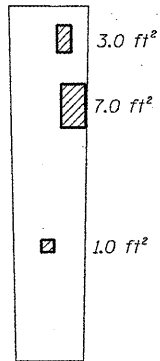
**PIER D-9 - NORTH ELEVATION**  
(Looking South)



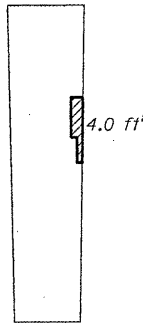
**PIER D-8 - SOUTH ELEVATION**  
(Looking North)



**PIER D-8 - NORTH ELEVATION**  
(Looking South)



**PIER D-7 - VIEW C**  
Looking East at side of column



**PIER D-8 - VIEW F**  
Looking West at side of column

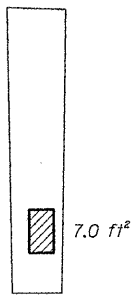
**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 123.0    |

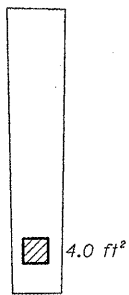
■ - Structural Repair of Concrete (Depth equal to or less than 5")



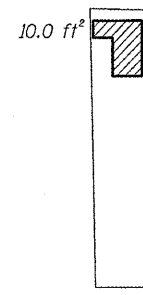
*David Carl Puzey* 5/13/11  
Exp/ncs 11/30/2012



**PIER D-9 - VIEW C**  
Looking East at side of column



**PIER D-9 - VIEW D**  
Looking West at side of column



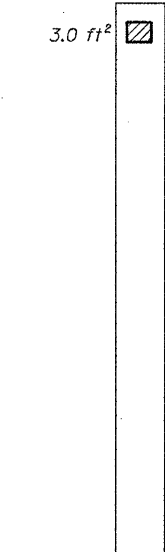
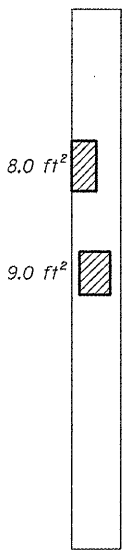
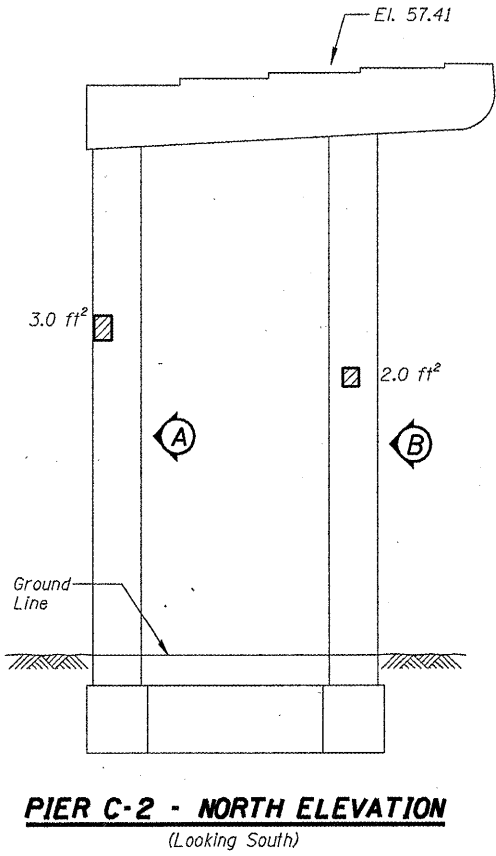
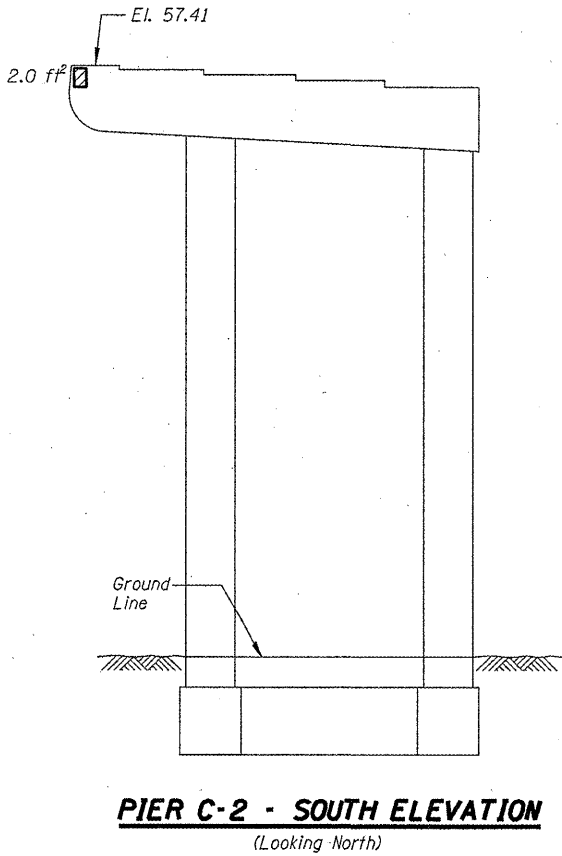
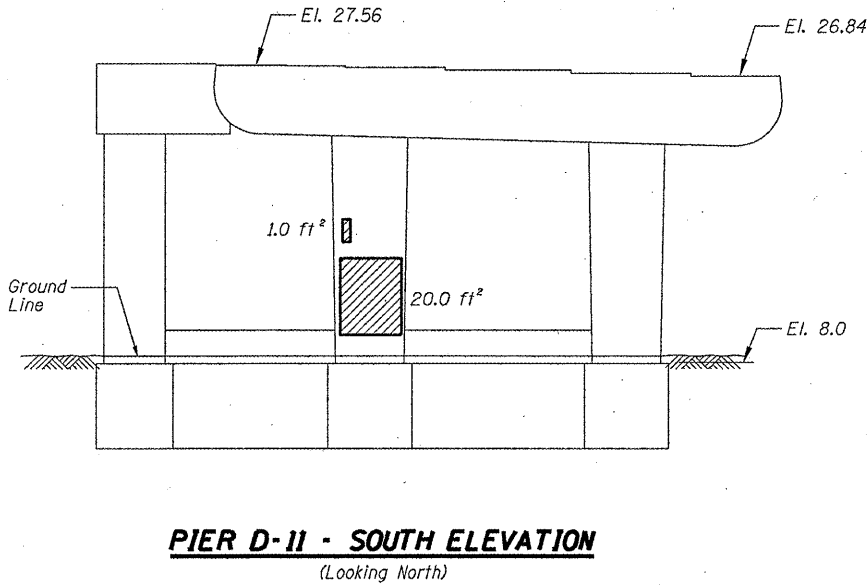
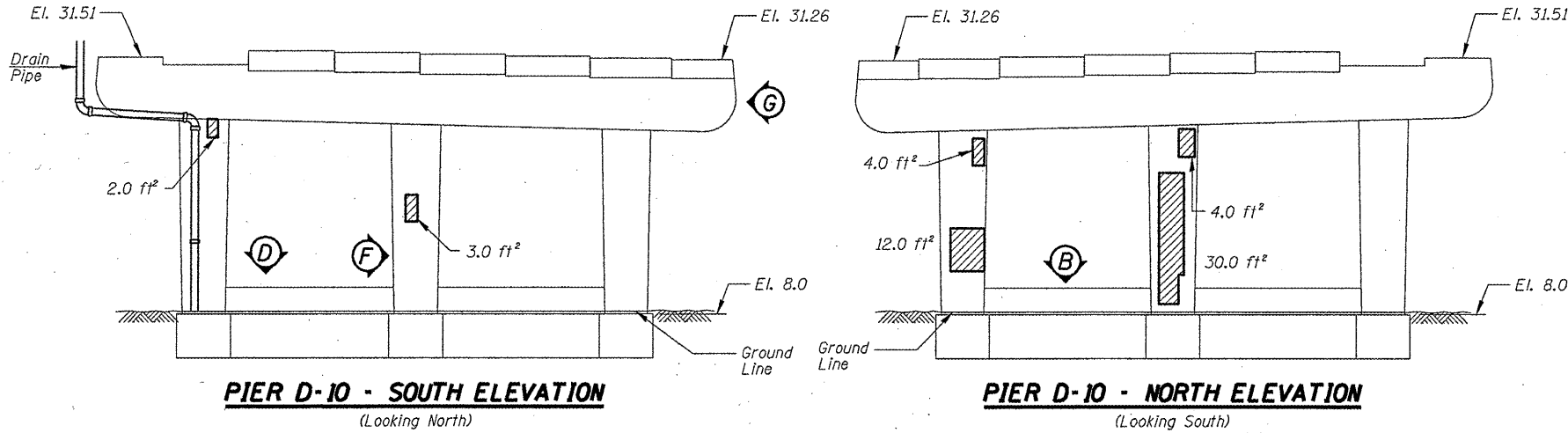
**PIER D-9 - VIEW E**  
Looking East at side of column

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION**

**I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1113  
PIERS D-7, D-8, & D-9**

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 43           |

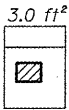
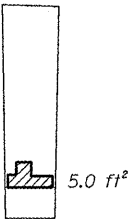
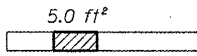
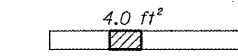
CONTRACT NO. 60P27



BILL OF MATERIAL

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 120.0    |

▨ - Structural Repair of Concrete (Depth equal to or less than 5")

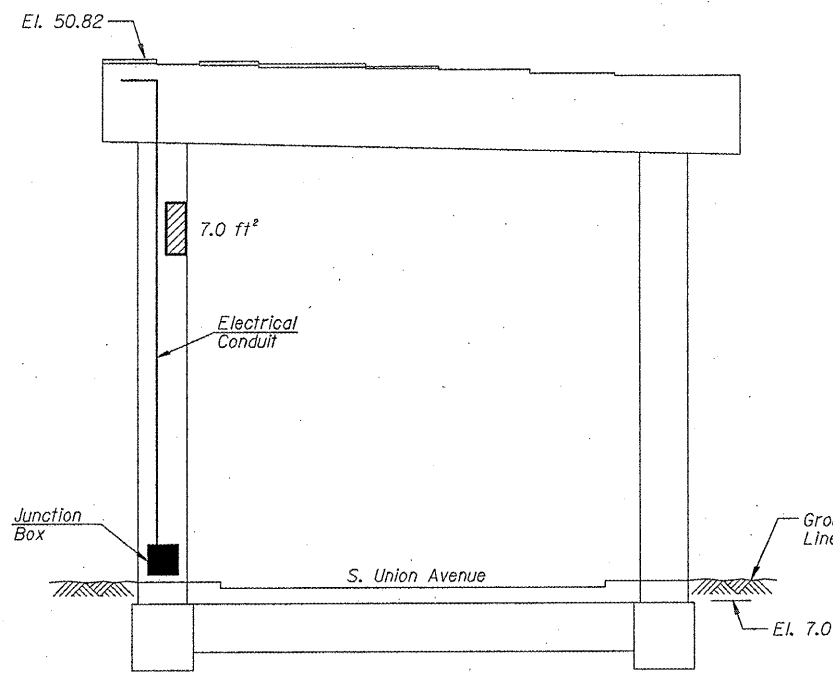


ILLINOIS DEPARTMENT OF  
TRANSPORTATION

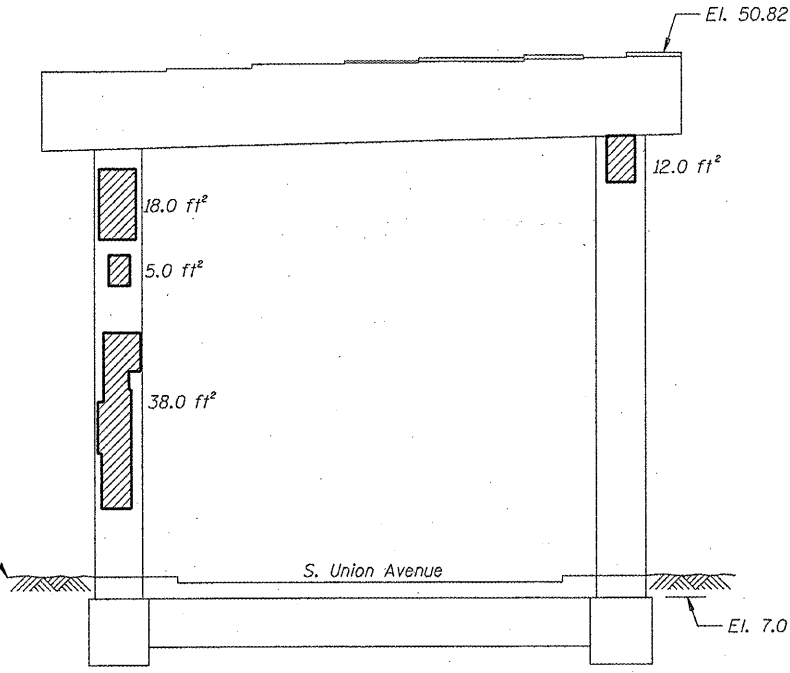
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1113  
PIERS D-10, D-11, & C-2

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 44           |

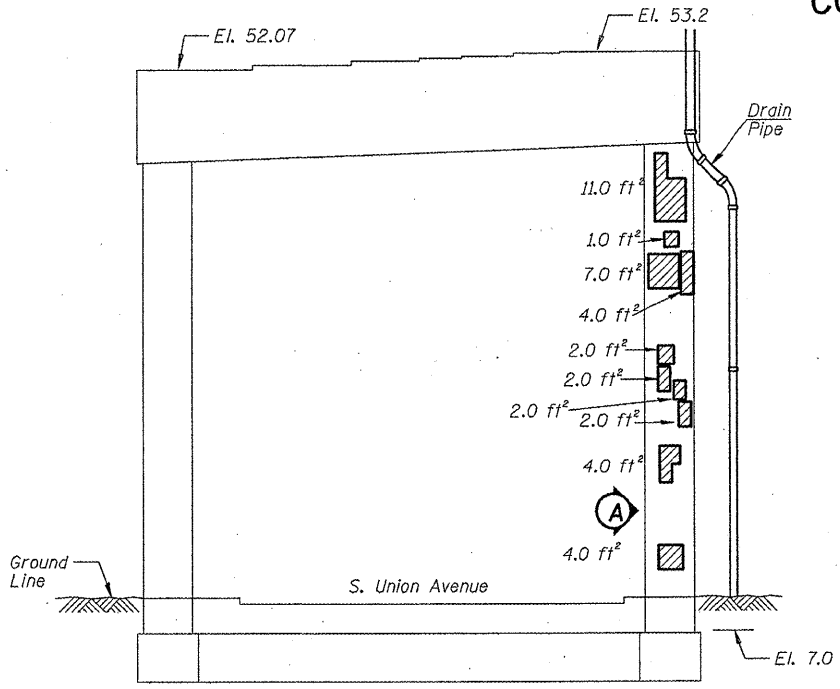
CONTRACT NO. 60P27



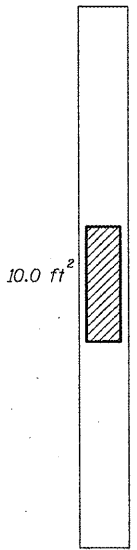
**PIER C-4 - SOUTH ELEVATION**  
(Looking North)



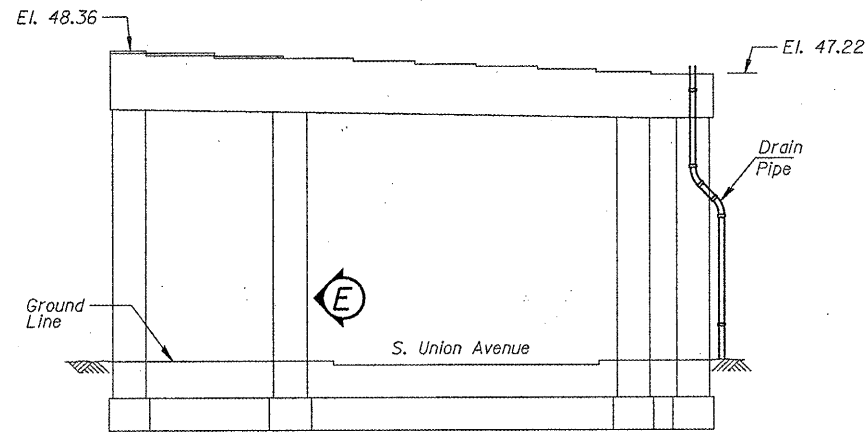
**PIER C-4 - NORTH ELEVATION**  
(Looking South)



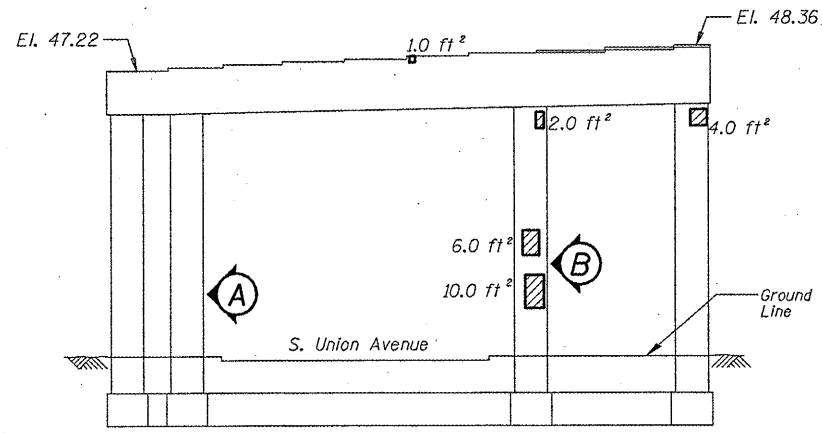
**PIER C-3 - SOUTH ELEVATION**  
(Looking North)



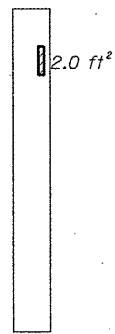
**PIER C-3 - VIEW A**  
Looking East at side of column



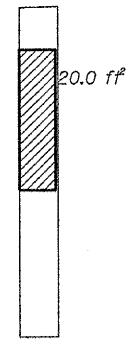
**PIER C-5 - SOUTH ELEVATION**  
(Looking North)



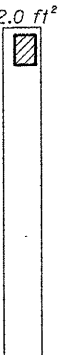
**PIER C-5 - NORTH ELEVATION**  
(Looking South)



**PIER C-5 - VIEW A**  
Looking East at side of column



**PIER C-5 - VIEW B**  
Looking East at side of column



**PIER C-5 - VIEW E**  
Looking West at side of column

▨ - Structural Repair of Concrete (Depth equal to or less than 5")

**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 176.0    |

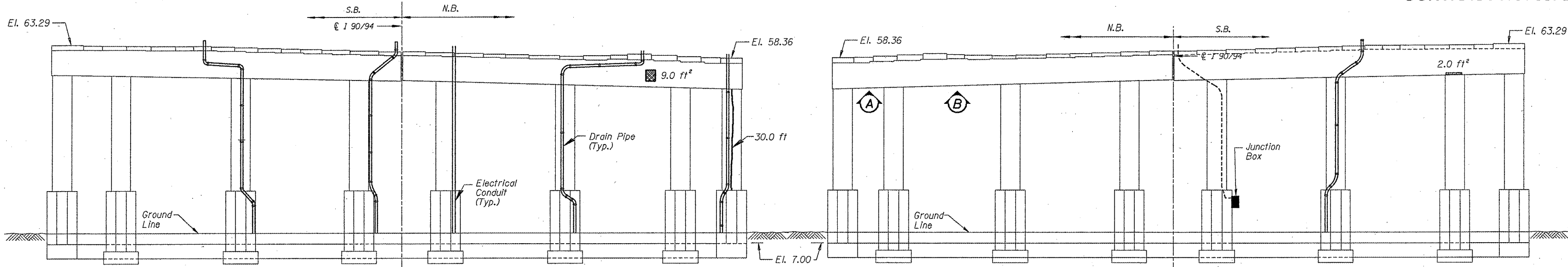
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1113  
PIERS C-3, C-4, & C-5



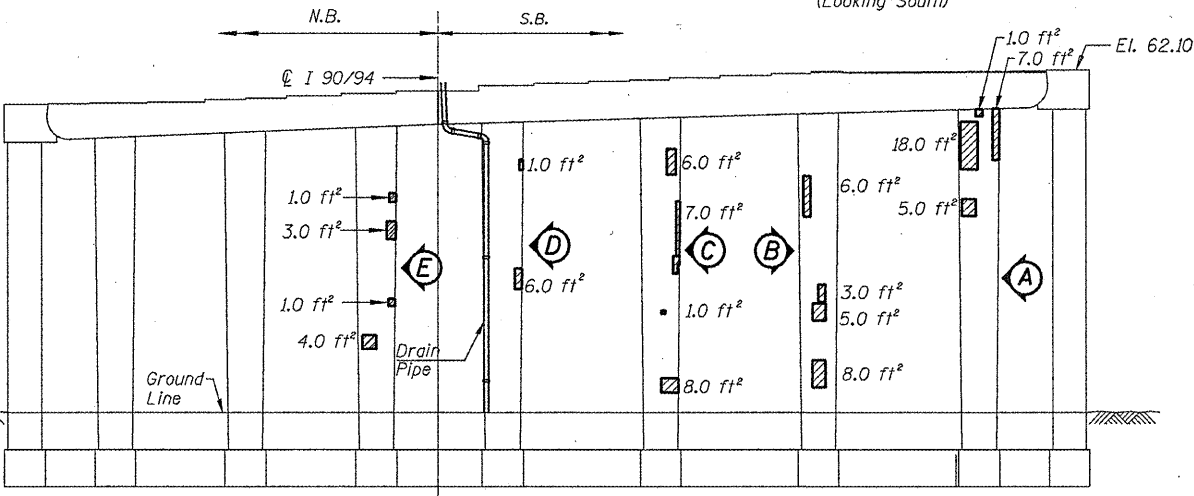
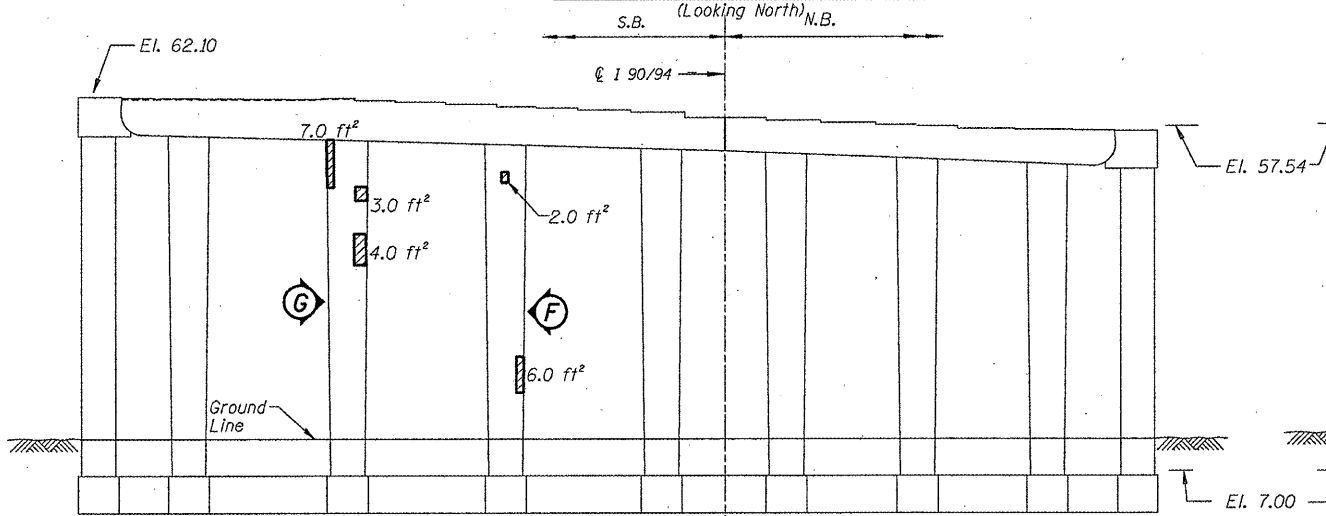
|           |            |        |              |              |
|-----------|------------|--------|--------------|--------------|
| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
| FAI 90/94 | 2011-027-I | COOK   | 87           | 45           |

CONTRACT NO. 60P27



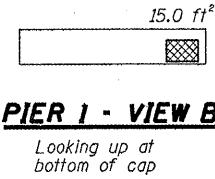
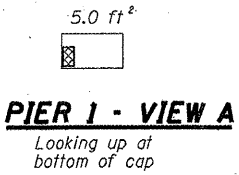
**PIER 1 - SOUTH ELEVATION**

**PIER 1 - NORTH ELEVATION**



**PIER 2 - SOUTH ELEVATION**

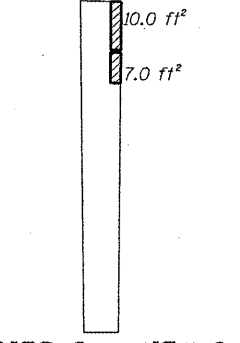
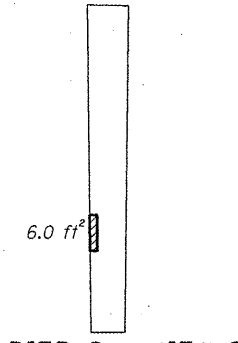
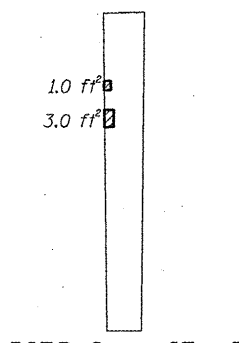
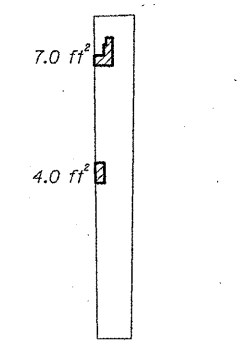
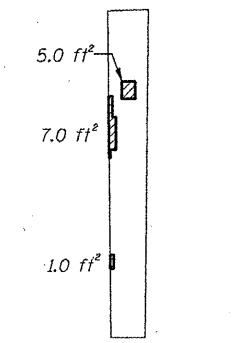
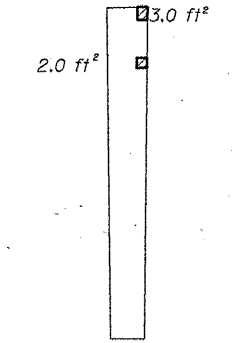
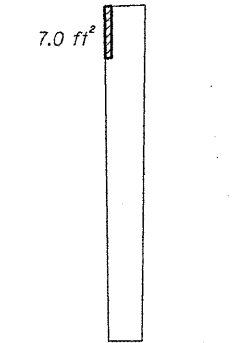
**PIER 2 - NORTH ELEVATION**



- Structural Repair of Concrete (Depth equal to or less than 5")
- Structural Repair of Concrete (Depth greater than 5")

**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 178.0    |
| Structural Repair of Concrete (Depth greater than 5")          | SQ. FT. | 29.0     |



**PIER 2 - VIEW A**

**PIER 2 - VIEW B**

**PIER 2 - VIEW C**

**PIER 2 - VIEW D**

**PIER 2 - VIEW E**

**PIER 2 - VIEW F**

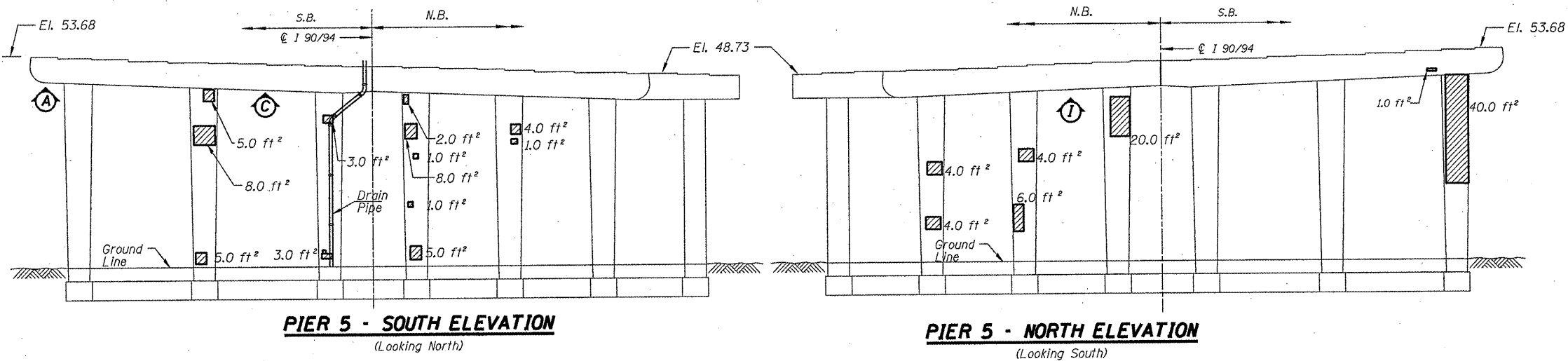
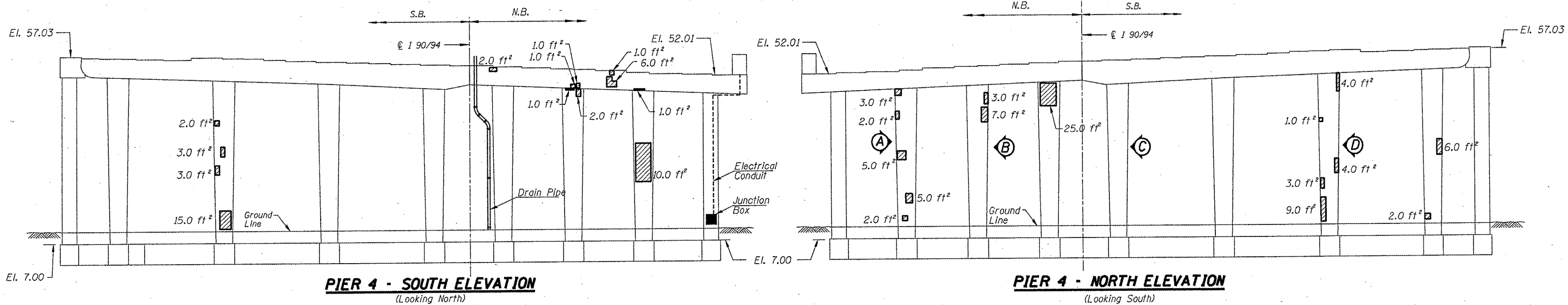
**PIER 2 - VIEW G**

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1113  
PIERS 1 & 2

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 46           |

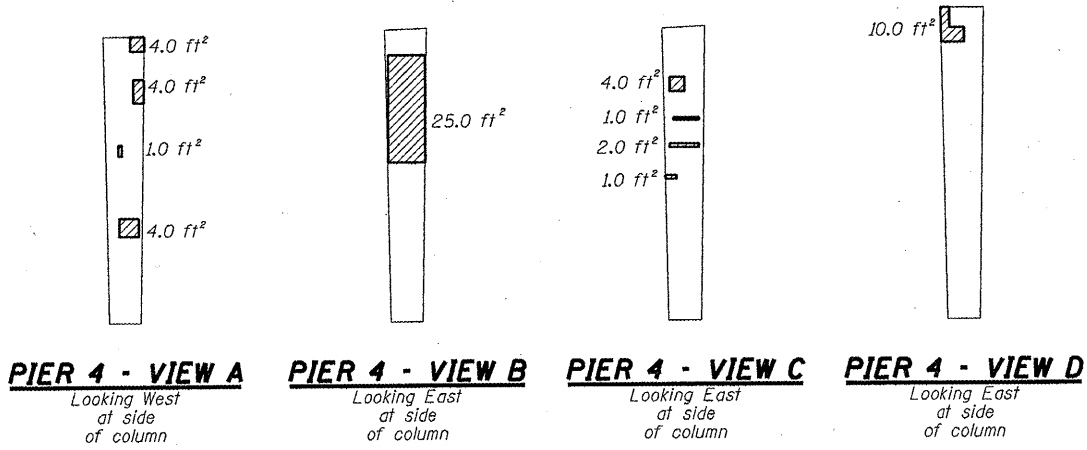
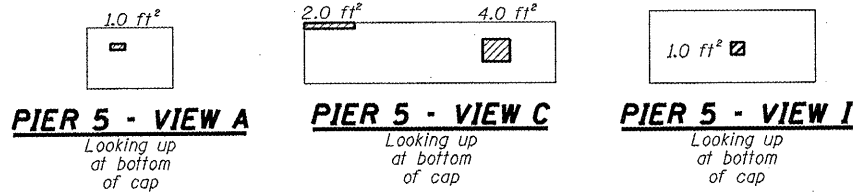
CONTRACT NO. 60P27



▨ - Structural Repair of Concrete (Depth equal to or less than 5")

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 318.0    |

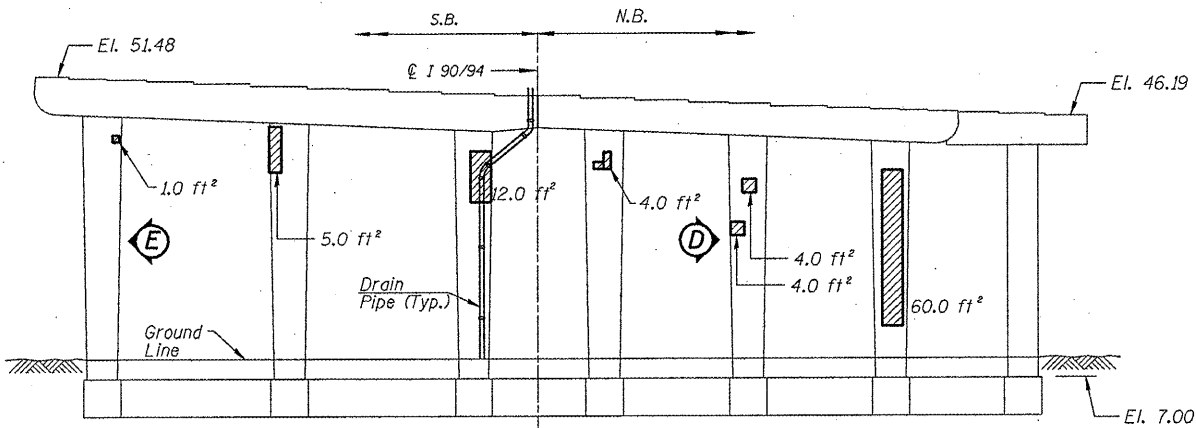


ILLINOIS DEPARTMENT OF  
TRANSPORTATION

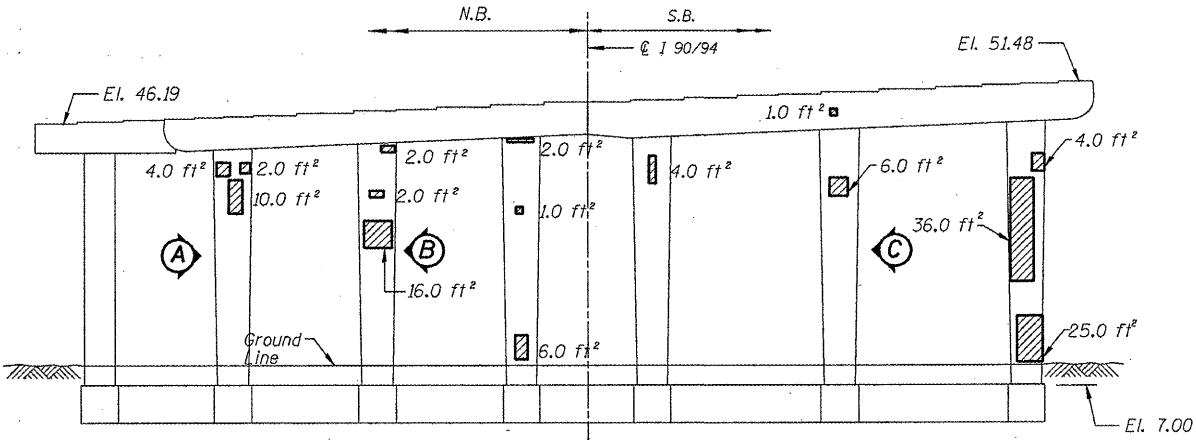
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1113  
PIERS 4 & 5

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 47           |

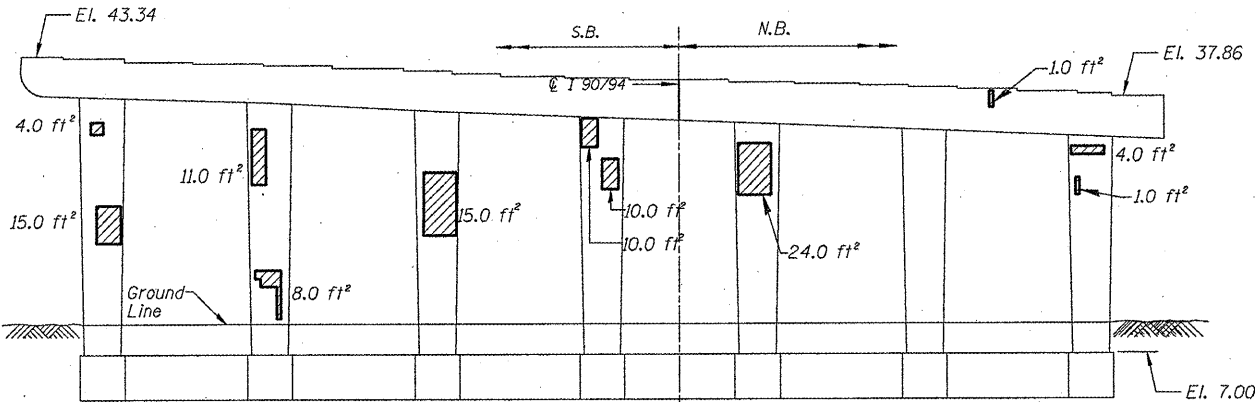
CONTRACT NO. 60P27



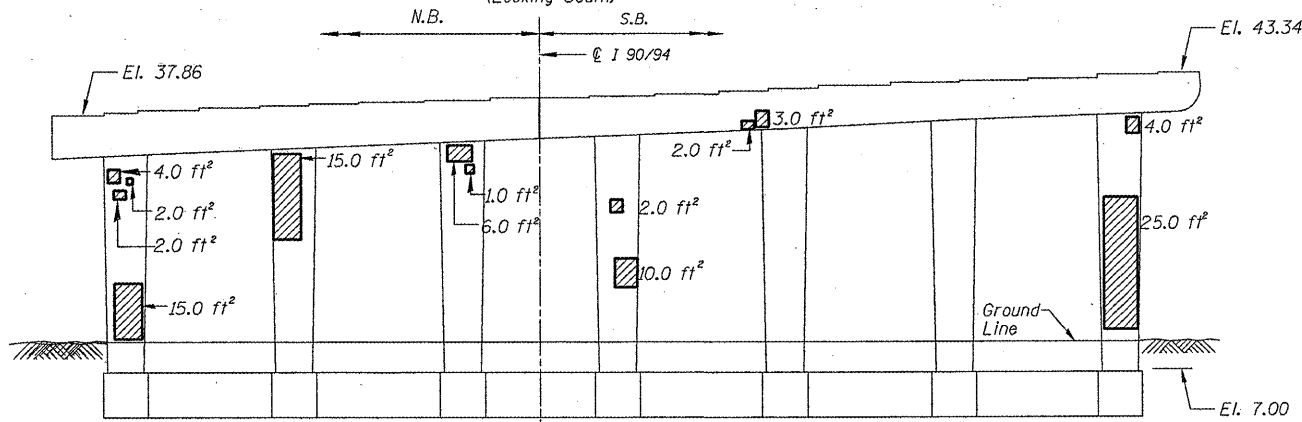
**PIER 6 - SOUTH ELEVATION**  
(Looking North)



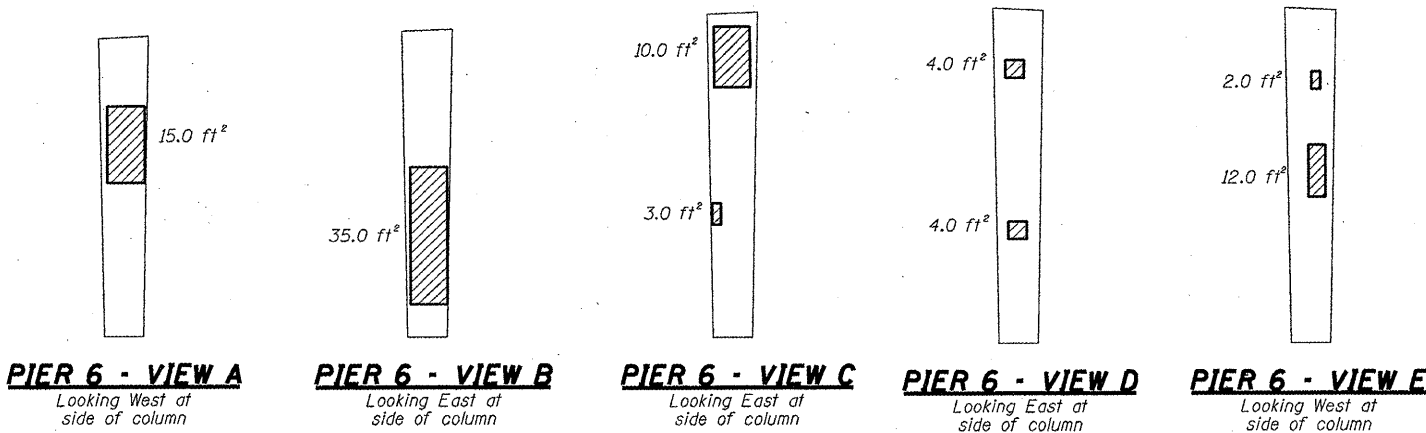
**PIER 6 - NORTH ELEVATION**  
(Looking South)



**PIER 9 - SOUTH ELEVATION**  
(Looking North)



**PIER 9 - NORTH ELEVATION**  
(Looking South)



**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 490.0    |

▨ - Structural Repair of Concrete (Depth equal to or less than 5")

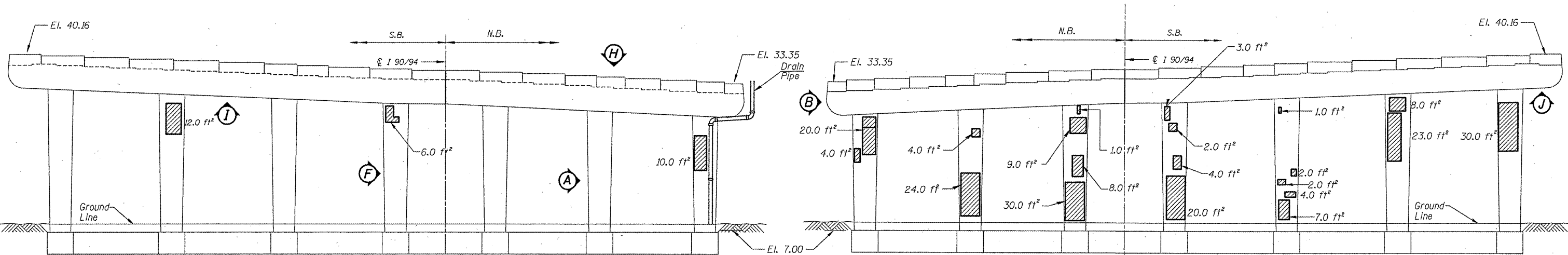
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1113  
PIERS 6 & 9



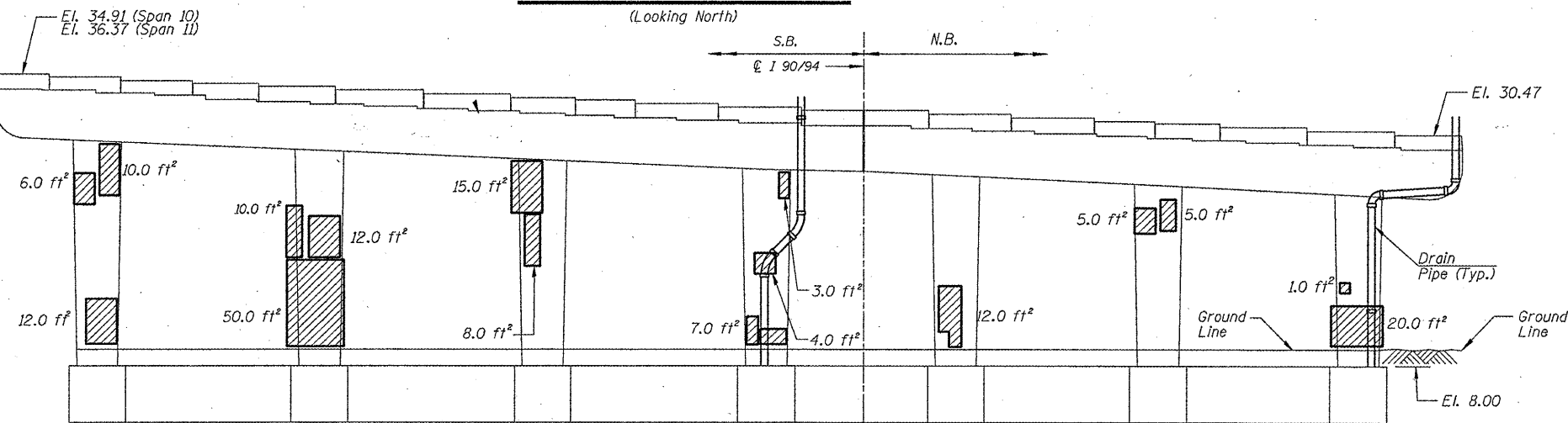
| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 48           |

CONTRACT NO. 60P27

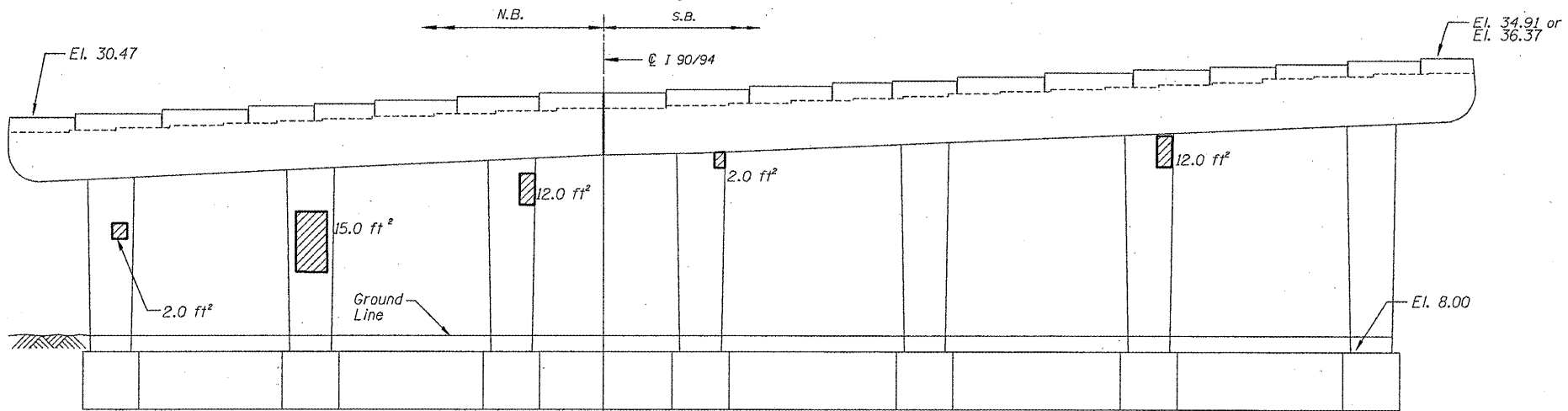


**PIER 10 - SOUTH ELEVATION**  
(Looking North)

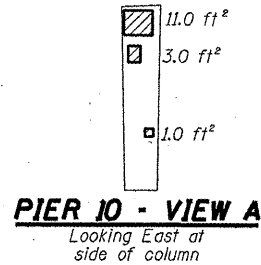
**PIER 10 - NORTH ELEVATION**  
(Looking South)



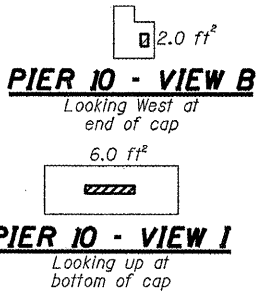
**PIER 11 - SOUTH ELEVATION**  
(Looking North)



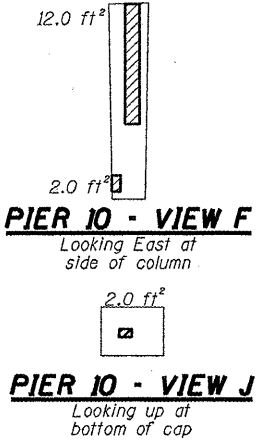
**PIER 11 - NORTH ELEVATION**  
(Looking South)



**PIER 10 - VIEW H**  
Looking down at top of seat



**PIER 10 - VIEW I**  
Looking up at bottom of cap



**PIER 10 - VIEW J**  
Looking up at bottom of cap

**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 497.0    |

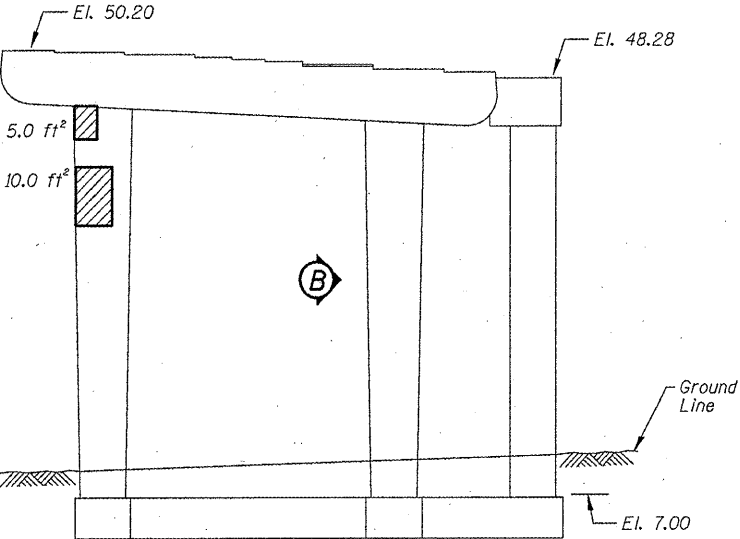
▨ - Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

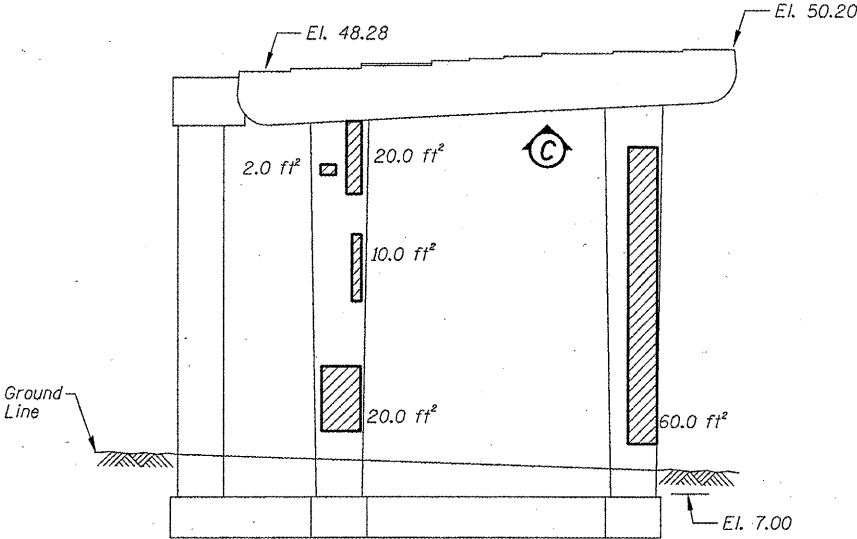
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1113  
PIERS 10 & 11

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 49           |

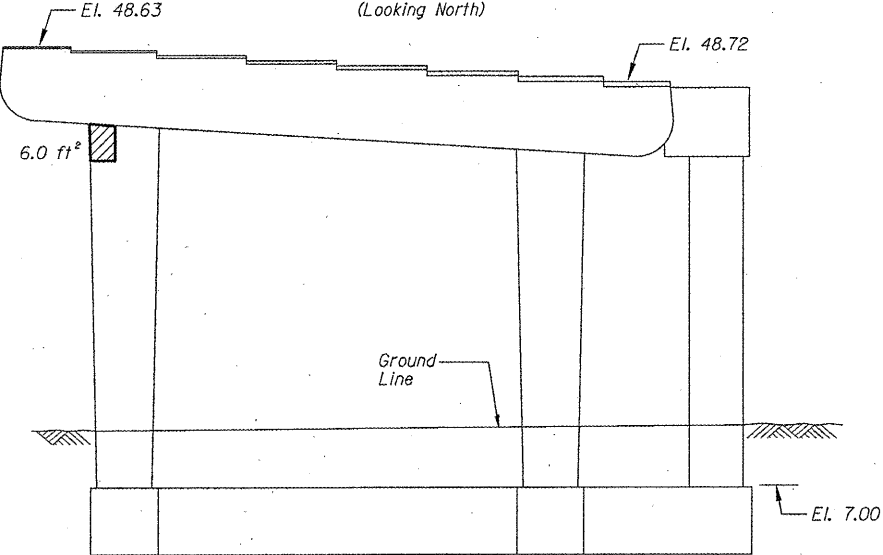
CONTRACT NO. 60P27



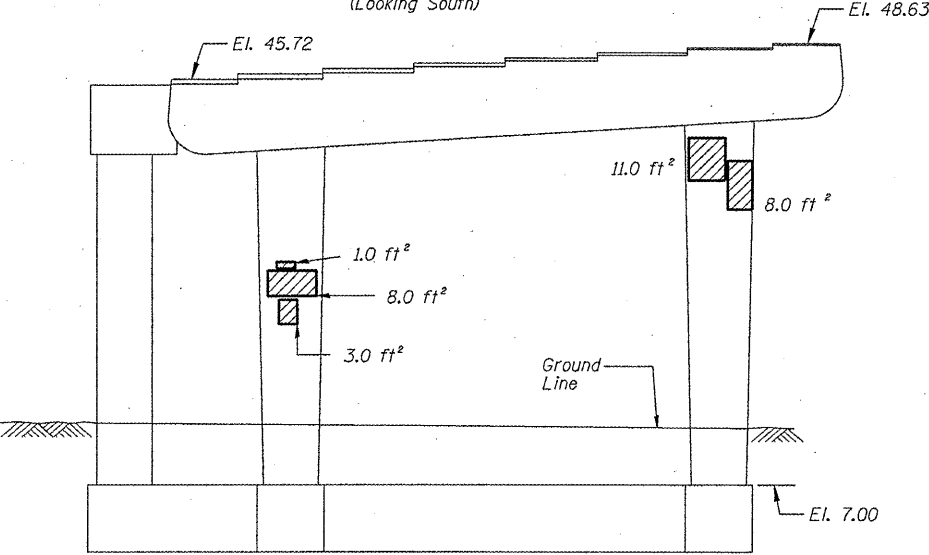
**PIER A-7 - SOUTH ELEVATION**  
(Looking North)



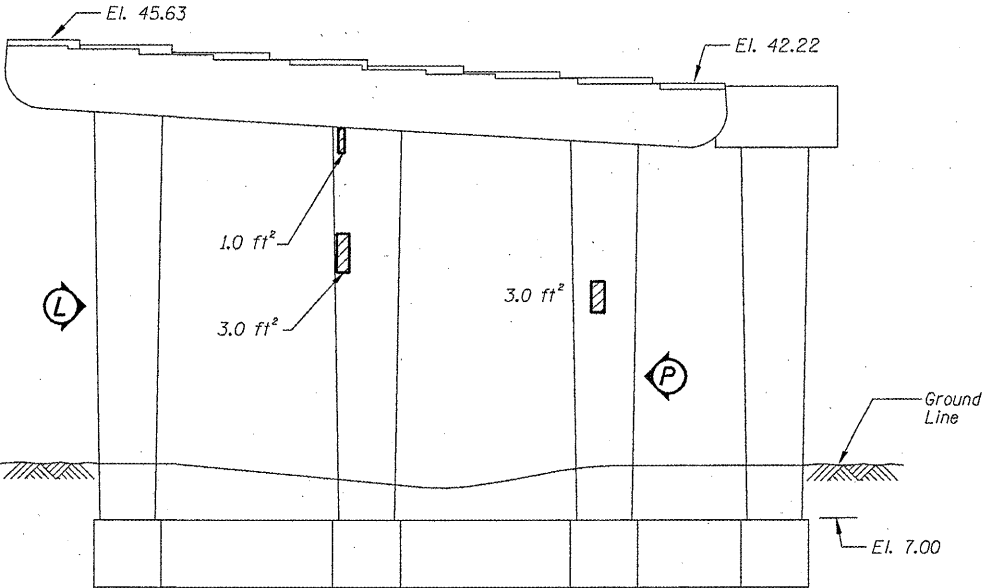
**PIER A-7 - NORTH ELEVATION**  
(Looking South)



**PIER A-8 - SOUTH ELEVATION**  
(Looking North)



**PIER A-8 - NORTH ELEVATION**  
(Looking South)



**PIER A-9 - SOUTH ELEVATION**  
(Looking North)

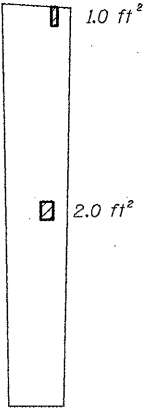
**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 253.0    |

 - Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

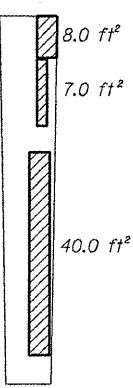
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1113  
PIERS A-7, A-8, & A-9



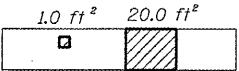
**PIER A-9 - VIEW L**  
Looking East at  
side of column



**PIER A-9 - VIEW P**  
Looking West at  
side of column



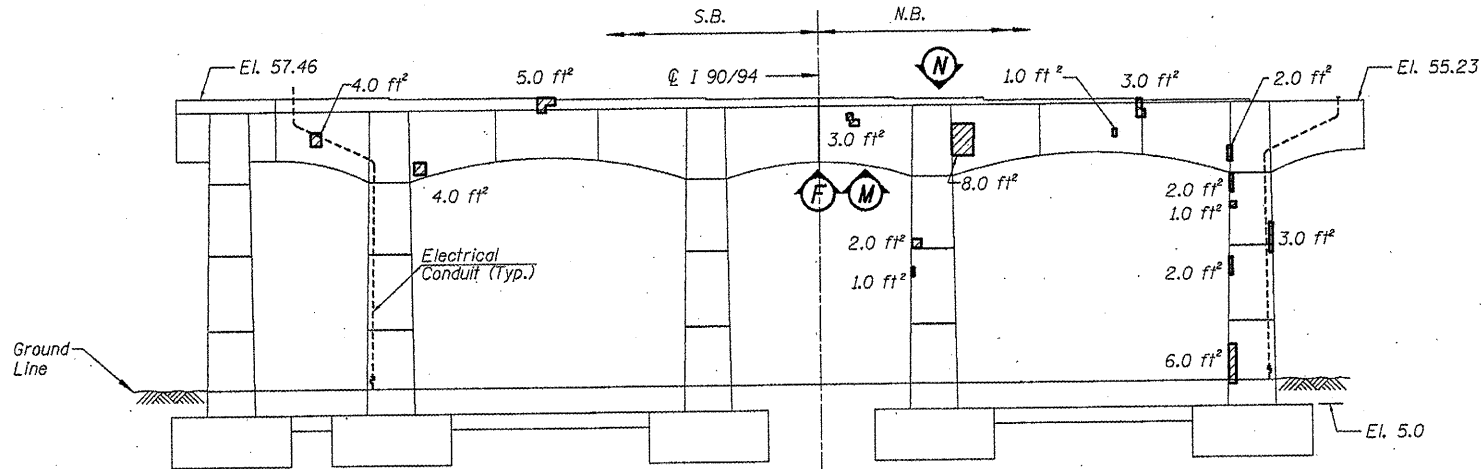
**PIER A-7 - VIEW B**  
Looking East at  
side of column



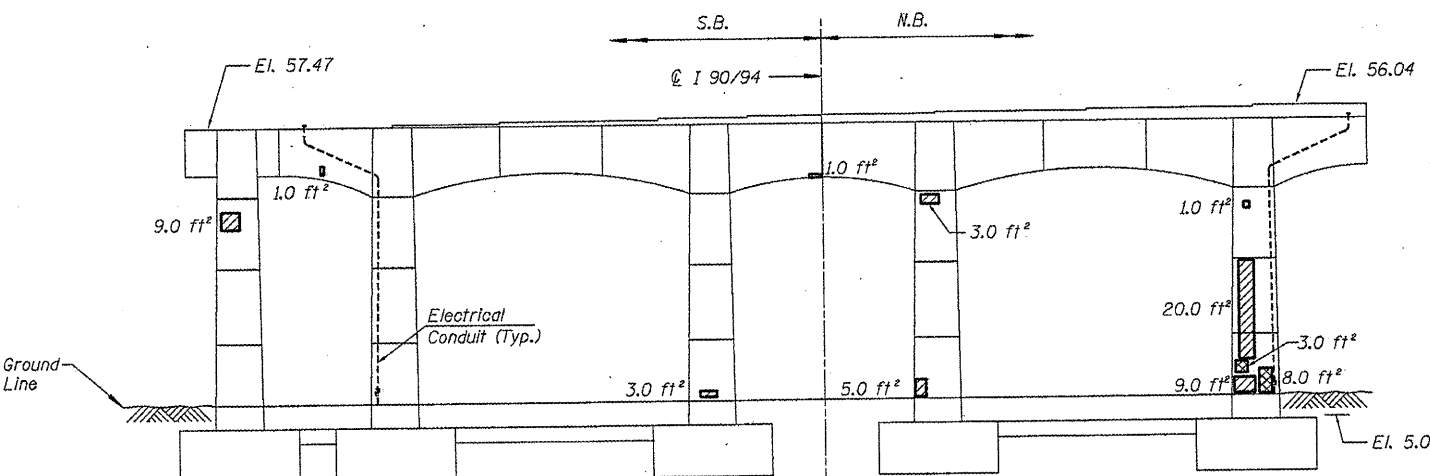
**PIER A-7 - VIEW C**  
Looking up at  
bottom of cap

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 50           |

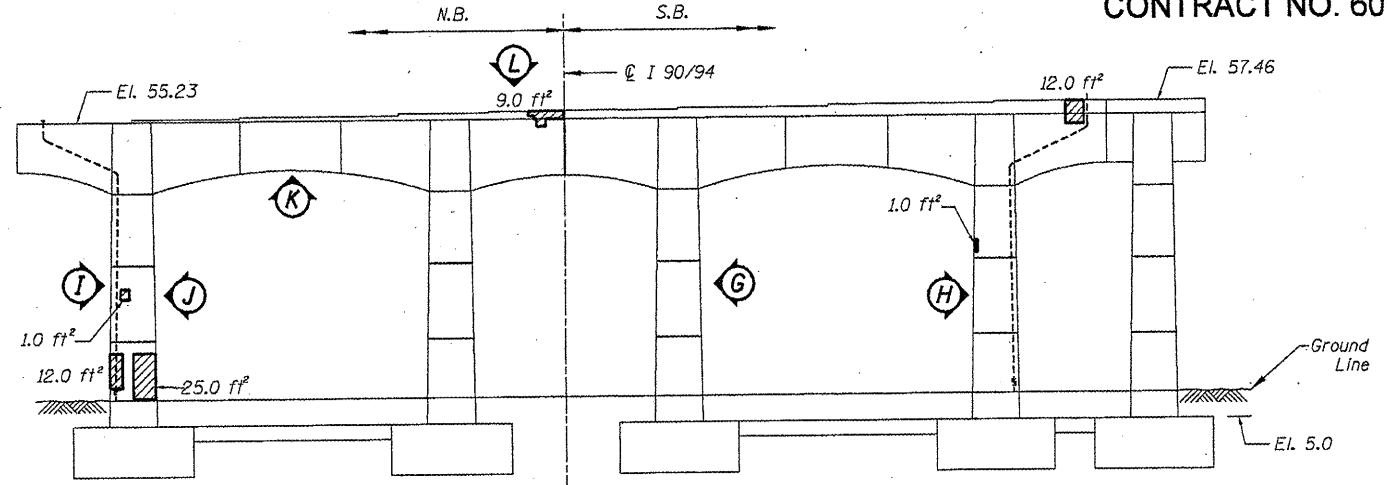
CONTRACT NO. 60P27



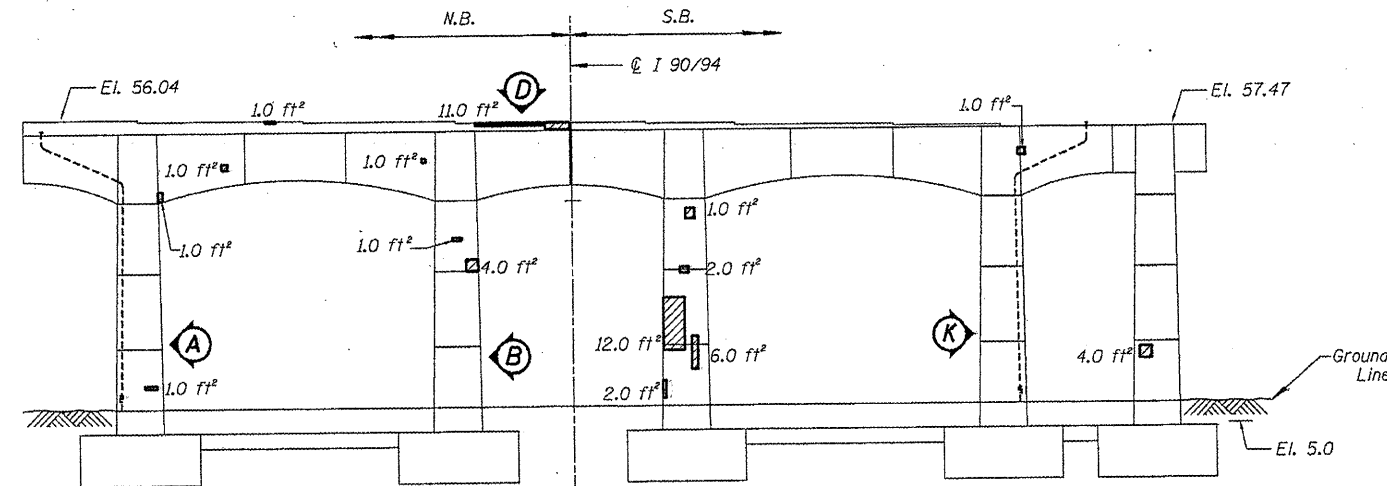
**PIER 1 - SOUTH ELEVATION**  
(Looking North)



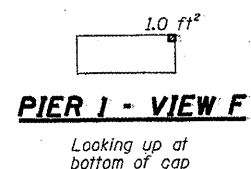
**PIER 2 - SOUTH ELEVATION**  
(Looking North)



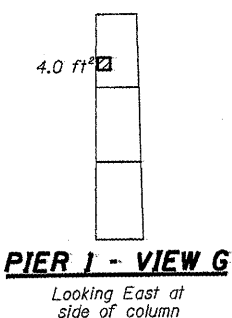
**PIER 1 - NORTH ELEVATION**  
(Looking South)



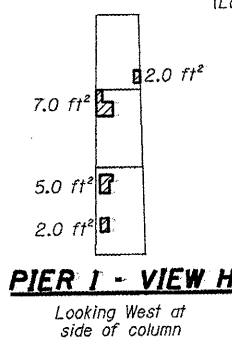
**PIER 2 - NORTH ELEVATION**  
(Looking South)



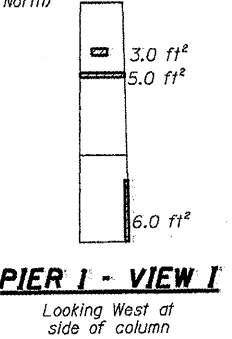
**PIER 1 - VIEW F**



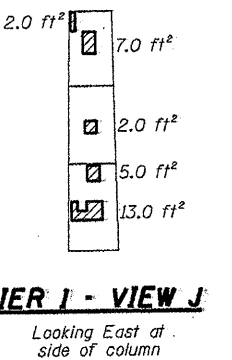
**PIER 1 - VIEW G**



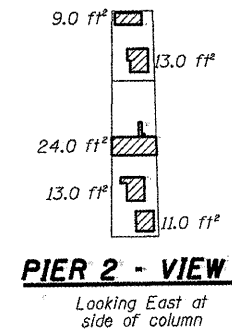
**PIER 1 - VIEW H**



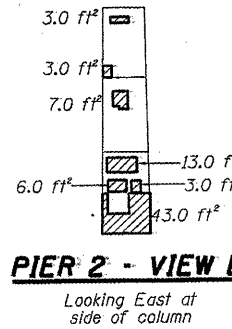
**PIER 1 - VIEW I**



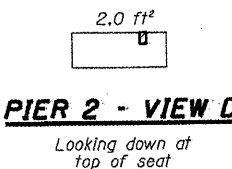
**PIER 1 - VIEW J**



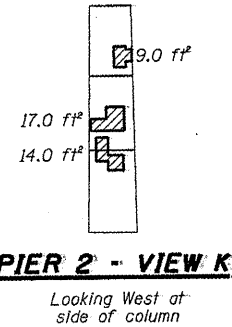
**PIER 2 - VIEW A**



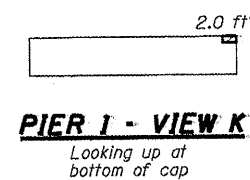
**PIER 2 - VIEW B**



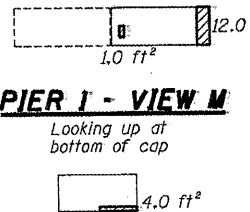
**PIER 2 - VIEW D**



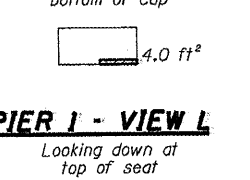
**PIER 2 - VIEW K**



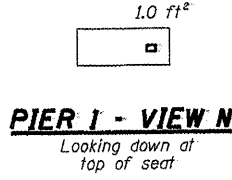
**PIER 1 - VIEW K**



**PIER 1 - VIEW M**



**PIER 1 - VIEW L**

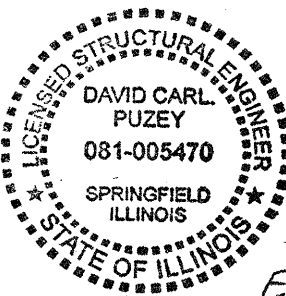


**PIER 1 - VIEW N**

- Structural Repair of Concrete (Depth equal to or less than 5")
- Structural Repair of Concrete (Depth greater than 5")

**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 489.0    |
| Structural Repair of Concrete (Depth greater than 5")          | SQ. FT. | 14.0     |

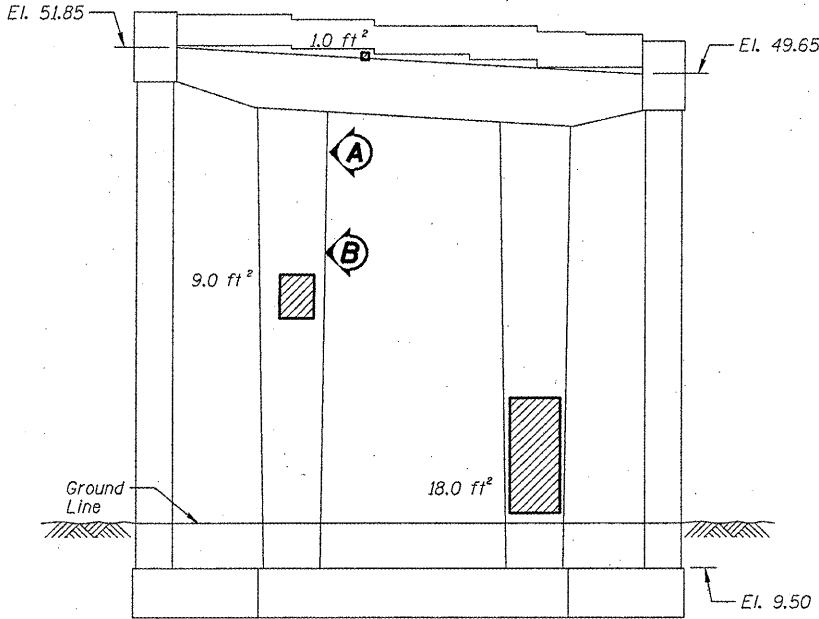


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5/13/11  
Expires 11/30/2012

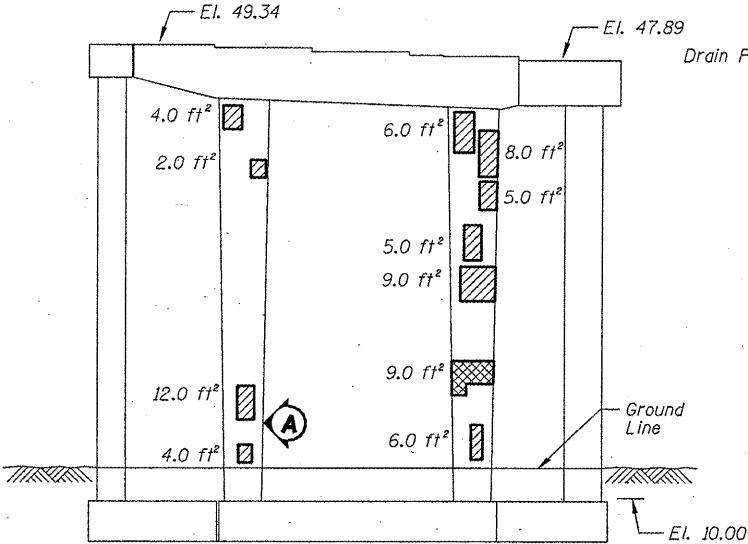
ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1114  
PIERS 1 & 2

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 51           |

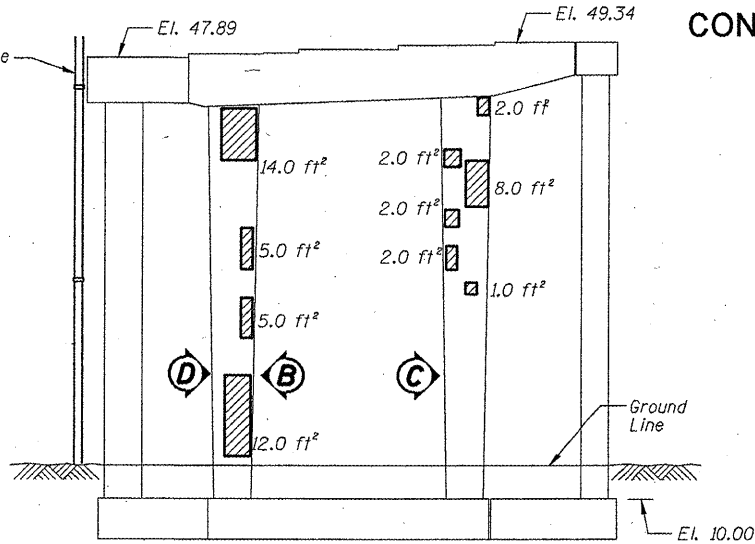
CONTRACT NO. 60P27



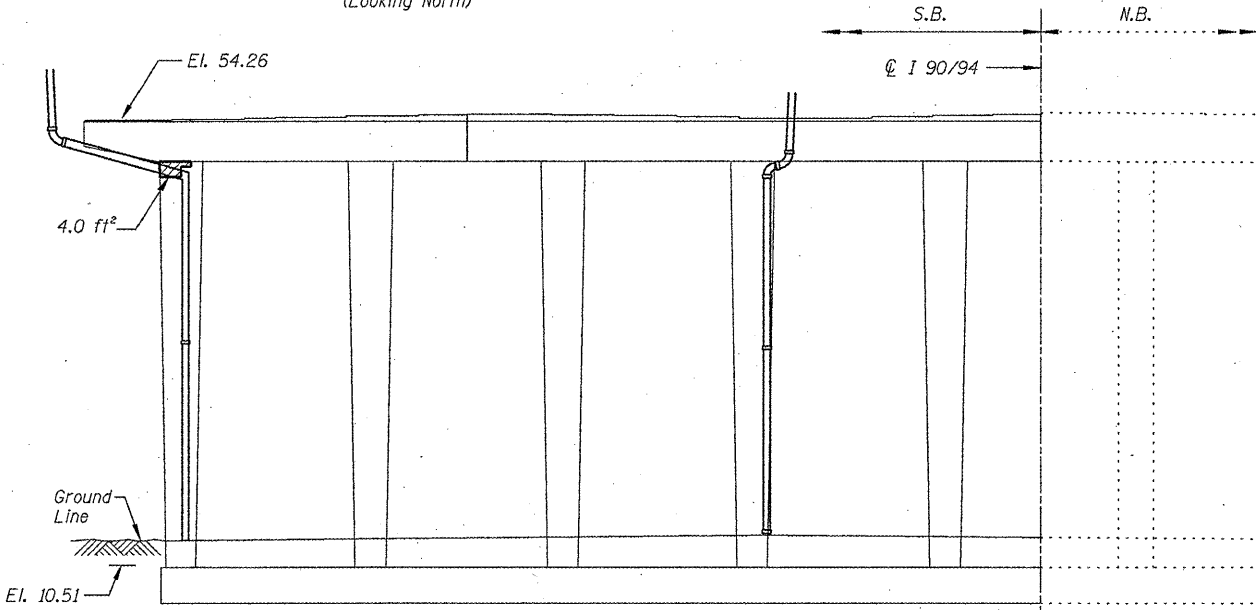
**PIER E-2 - SOUTH ELEVATION**  
(Looking North)



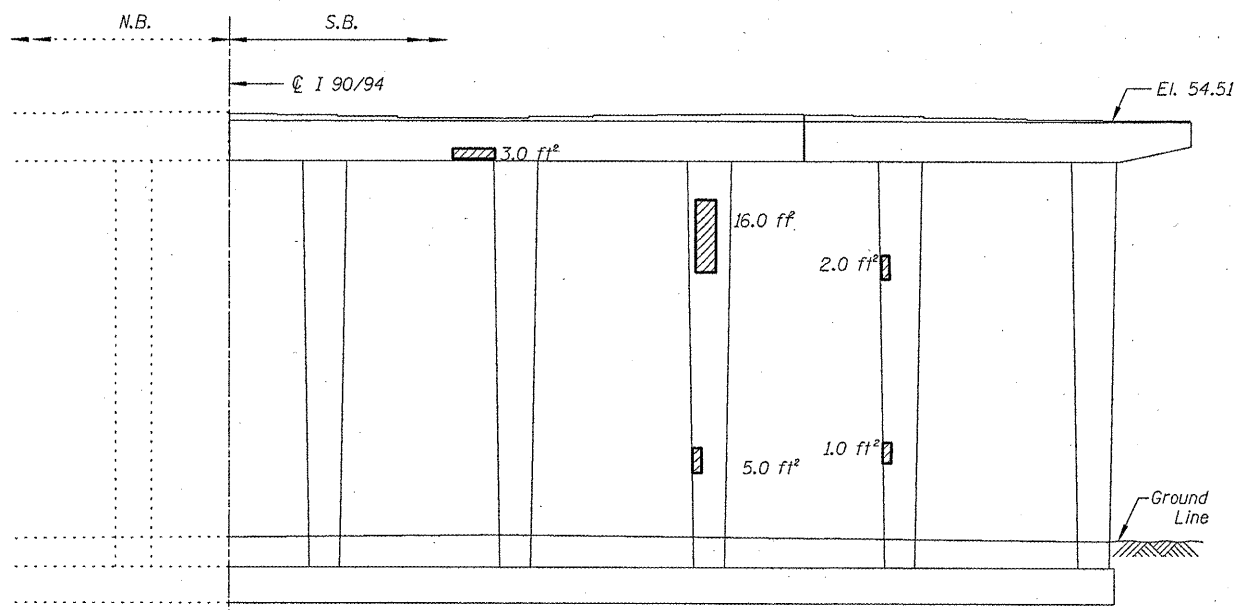
**PIER E-1 - SOUTH ELEVATION**  
(Looking North)



**PIER E-1 - NORTH ELEVATION**  
(Looking South)

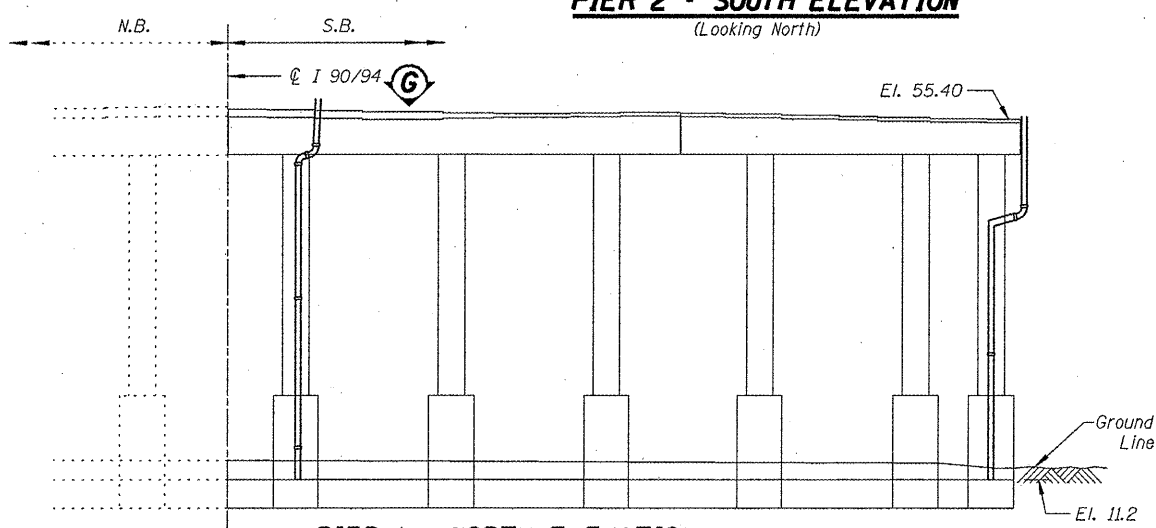


**PIER 2 - SOUTH ELEVATION**  
(Looking North)

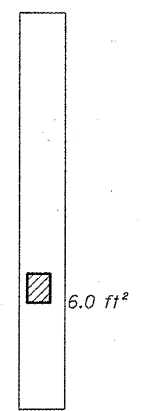


**PIER 2 - NORTH ELEVATION**  
(Looking South)

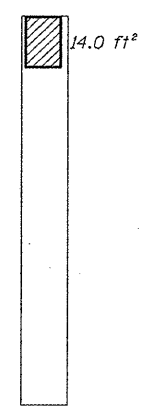
**PIER 1 - VIEW G**  
Looking down at  
Top of Seat



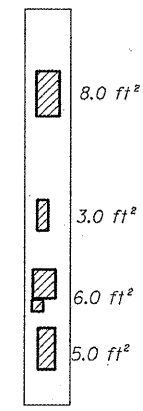
**PIER 1 - NORTH ELEVATION**  
(Looking South)



**PIER E-1 - VIEW A**  
Looking East at Side  
of Column



**PIER E-1 - VIEW B**  
Looking East at Side  
of Column



**PIER E-1 - VIEW C**  
Looking West at Side  
of Column

**BILL OF MATERIAL**

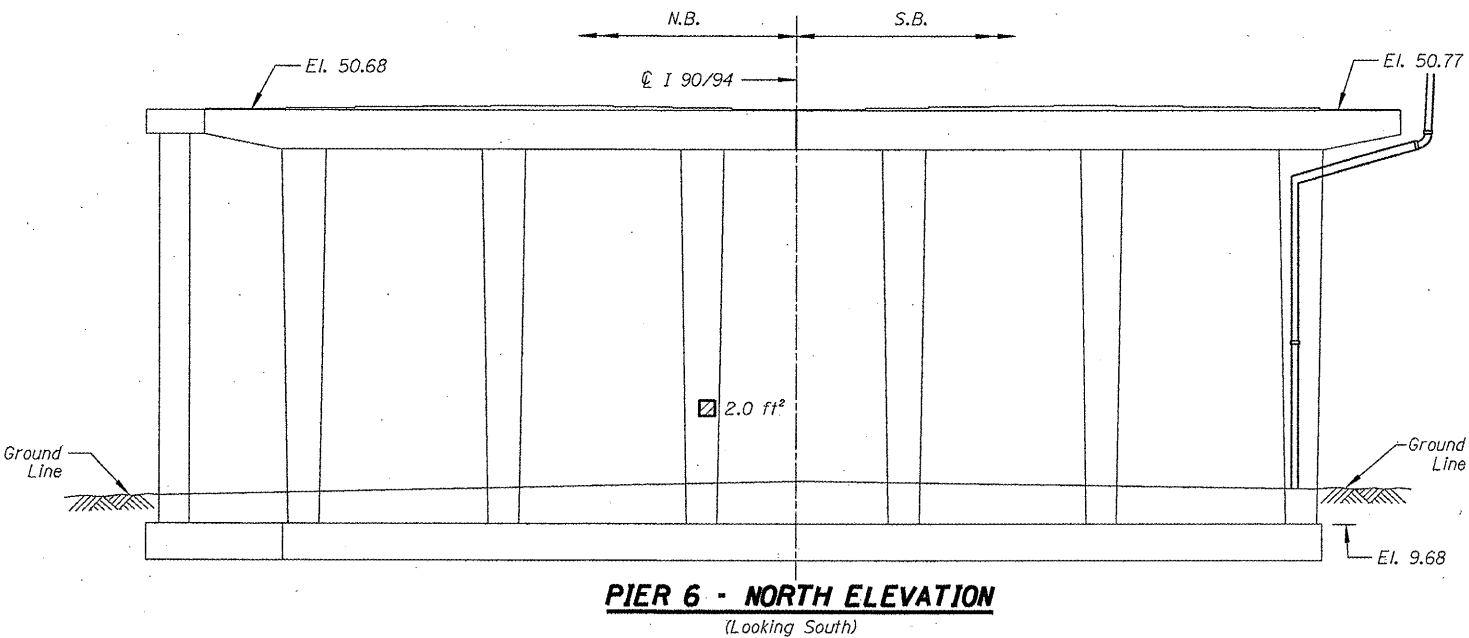
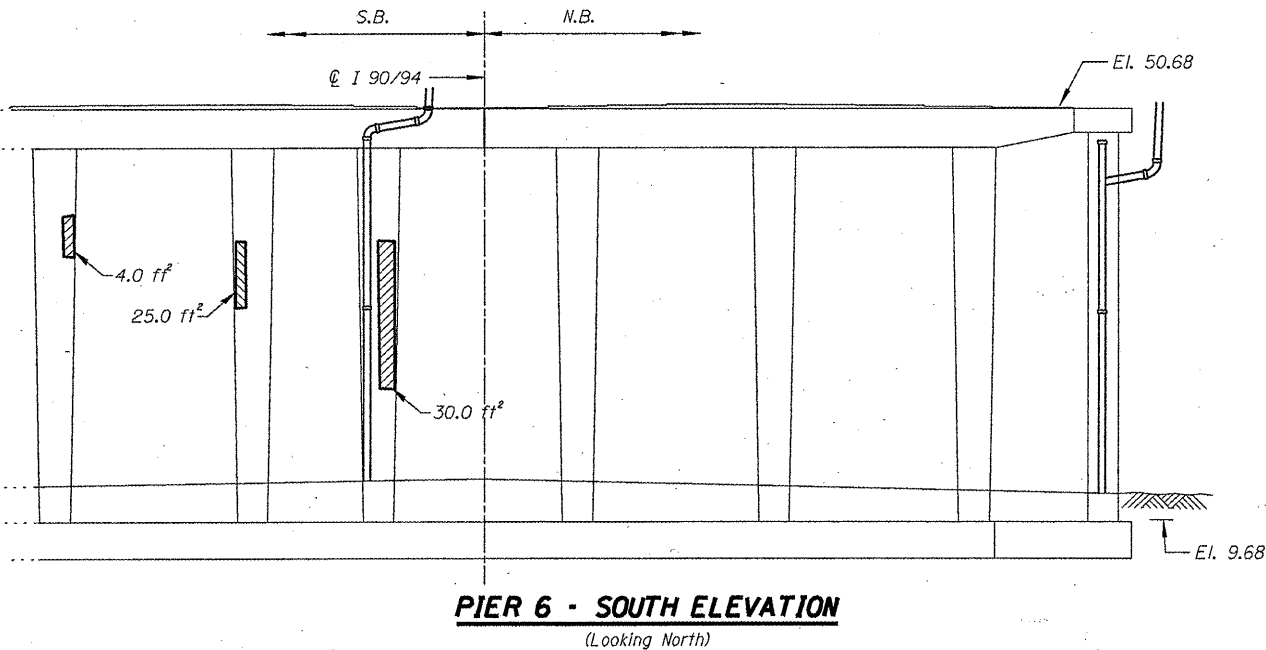
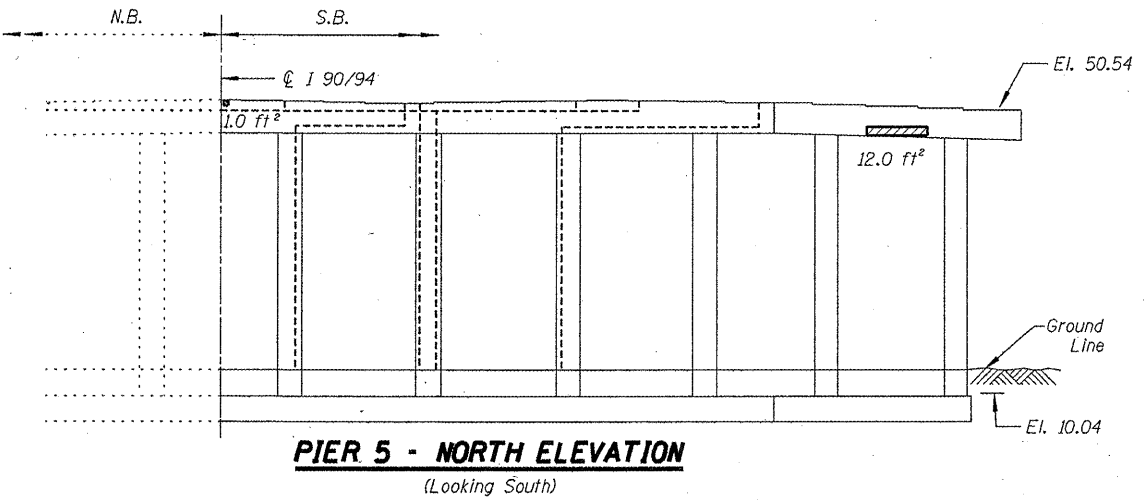
| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 217.0    |
| Structural Repair of Concrete (Depth greater than 5")          | SQ. FT. | 9.0      |

- Structural Repair of Concrete (Depth equal to or less than 5")
- Structural Repair of Concrete (Depth greater than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1115  
PIERS E-1, E-2, 1, & 2

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 52           |

CONTRACT NO. 60P27



▨ - Structural Repair of Concrete (Depth equal to or less than 5")

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 74.0     |

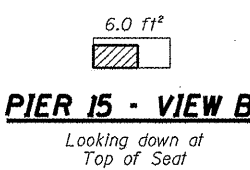
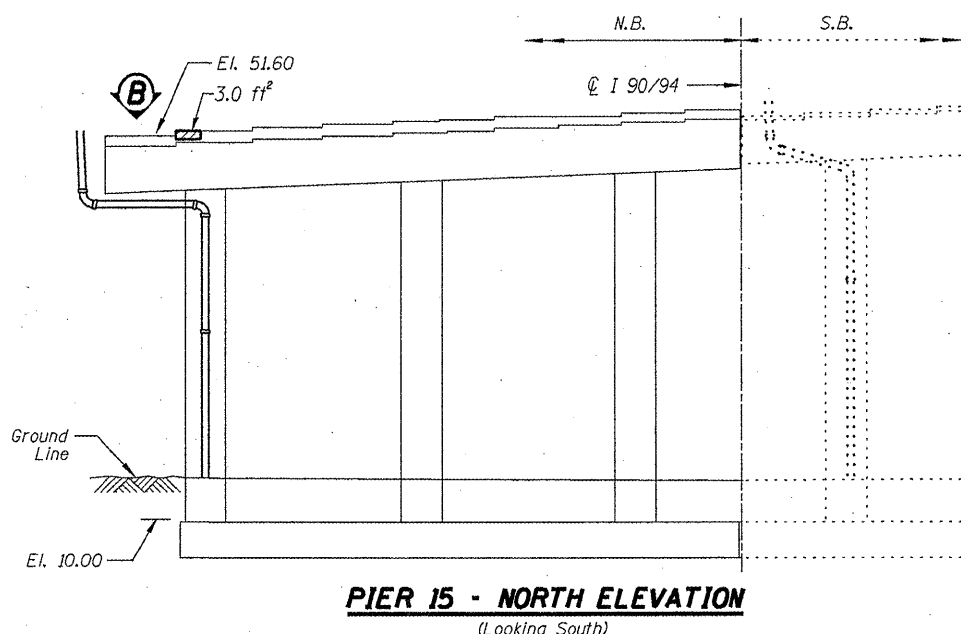
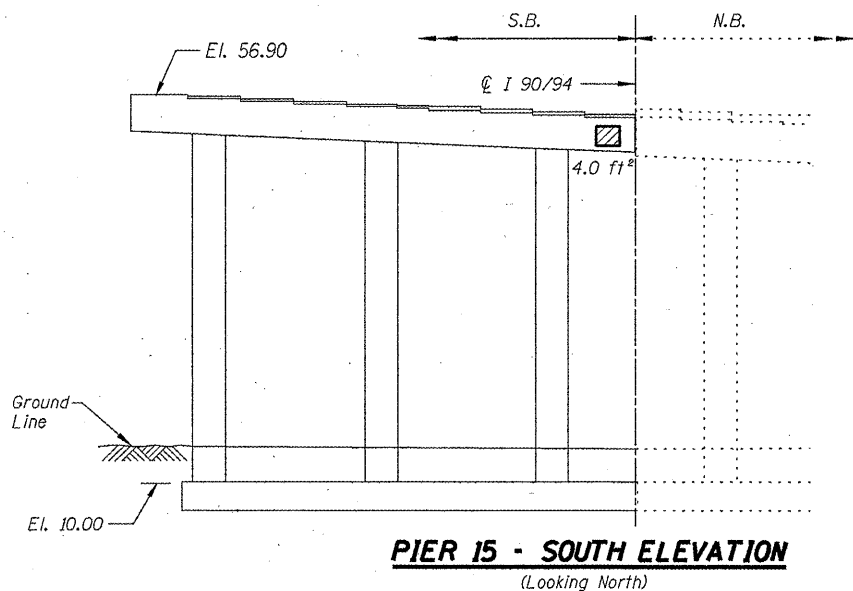
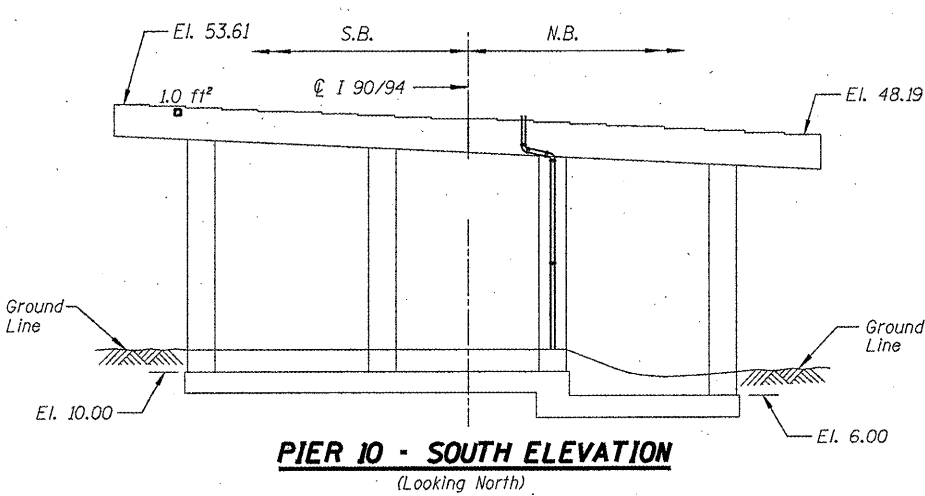
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1115  
PIERS 5 & 6



| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 53           |

CONTRACT NO. 60P27



**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 14.0     |

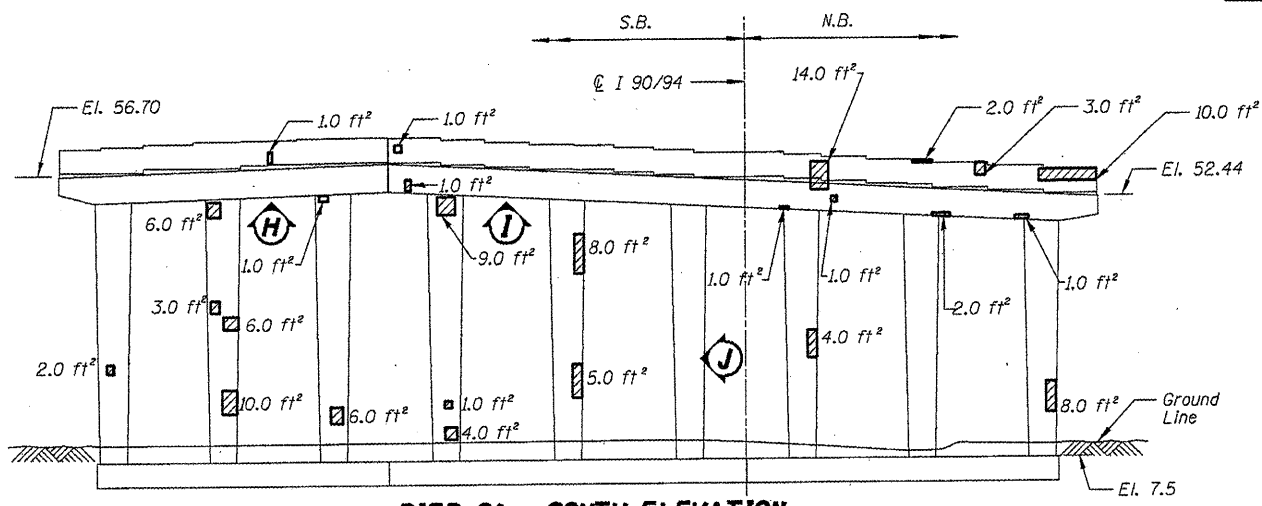
▨ - Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1115  
PIERS 10 & 15

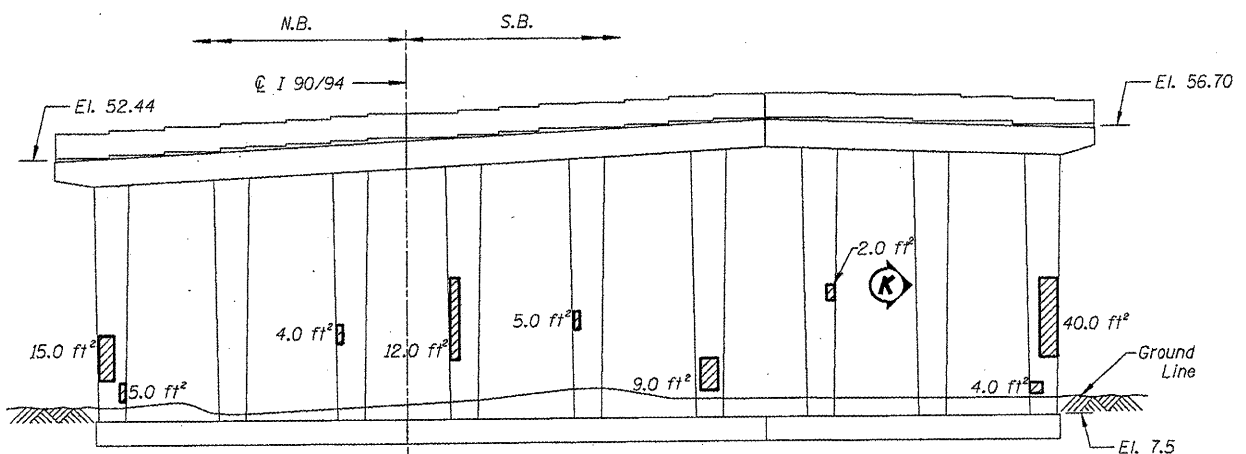
| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 54           |

CONTRACT NO. 60P27



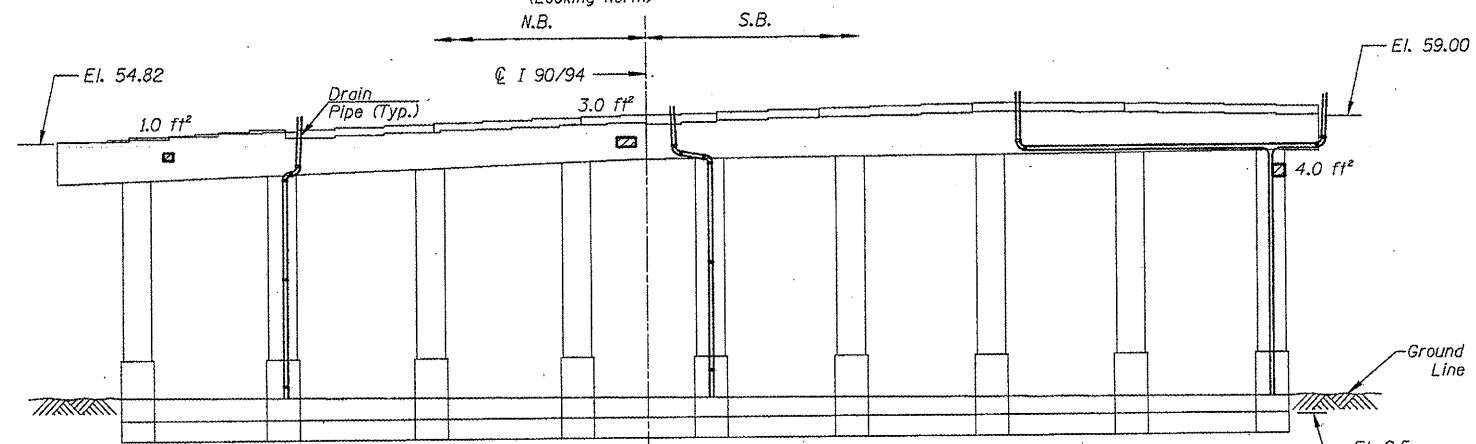
PIER 21 - SOUTH ELEVATION

(Looking North)



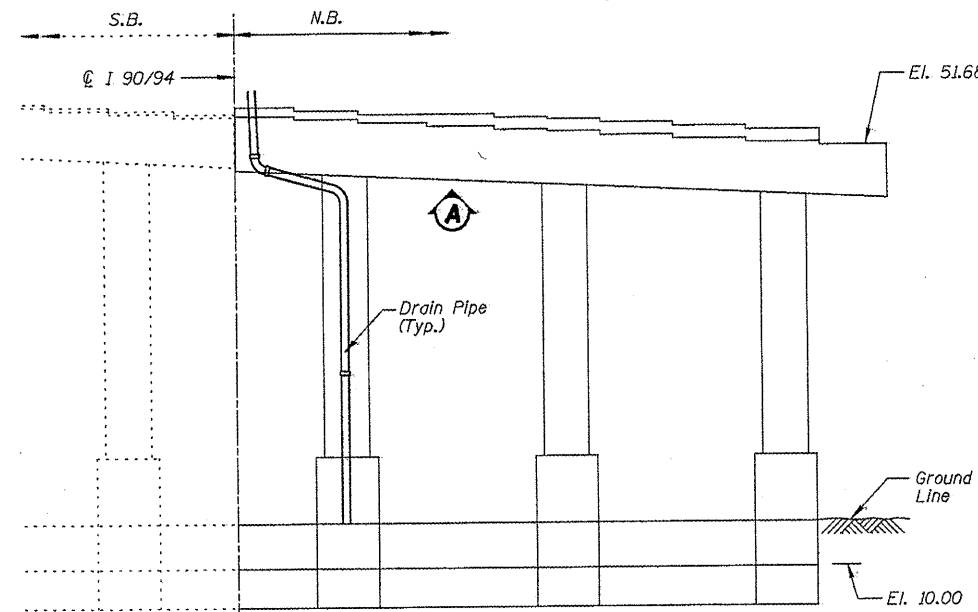
PIER 21 - NORTH ELEVATION

(Looking South)



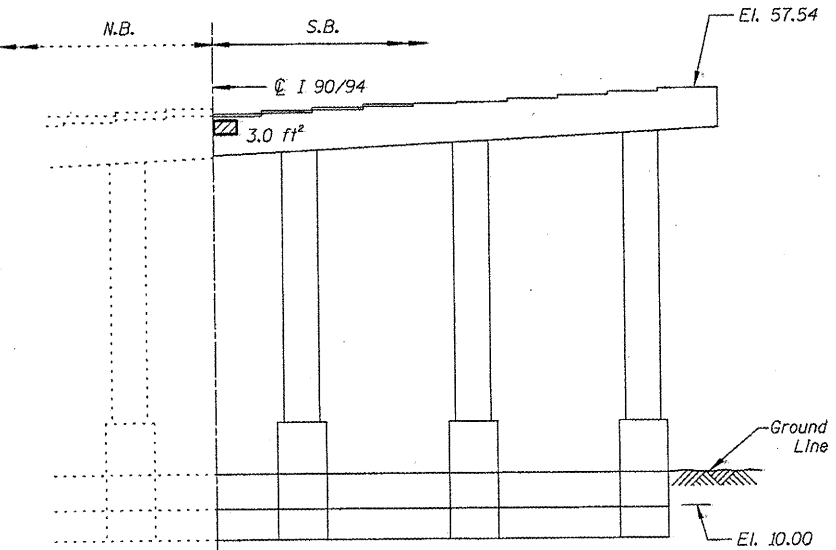
PIER 22 - NORTH ELEVATION

(Looking South)



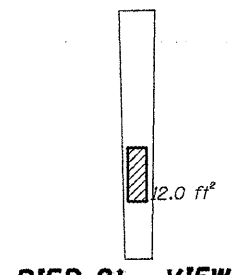
PIER 16 - SOUTH ELEVATION

(Looking North)



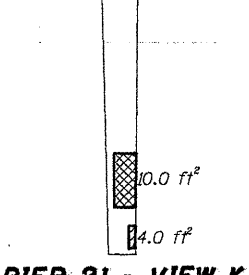
PIER 16 - NORTH ELEVATION

(Looking South)



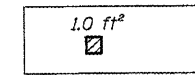
PIER 21 - VIEW J

(Looking West at side of column)



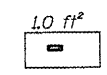
PIER 21 - VIEW K

(Looking West at side of column)



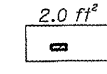
PIER 16 - VIEW A

(Looking up at Bottom of Cap)



PIER 21 - VIEW H

(Looking up at bottom of cap)



PIER 21 - VIEW I

(Looking up at bottom of cap)

- Structural Repair of Concrete (Depth equal to or less than 5")
- Structural Repair of Concrete (Depth greater than 5")

BILL OF MATERIAL

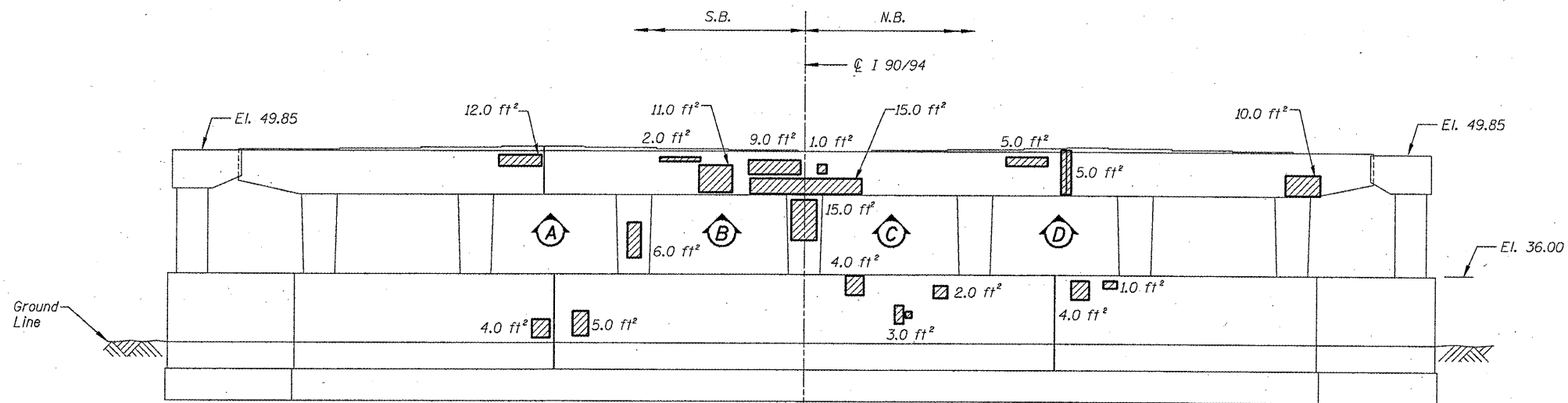
| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 237.0    |
| Structural Repair of Concrete (Depth greater than 5")          | SQ. FT. | 10.0     |

ILLINOIS DEPARTMENT OF TRANSPORTATION

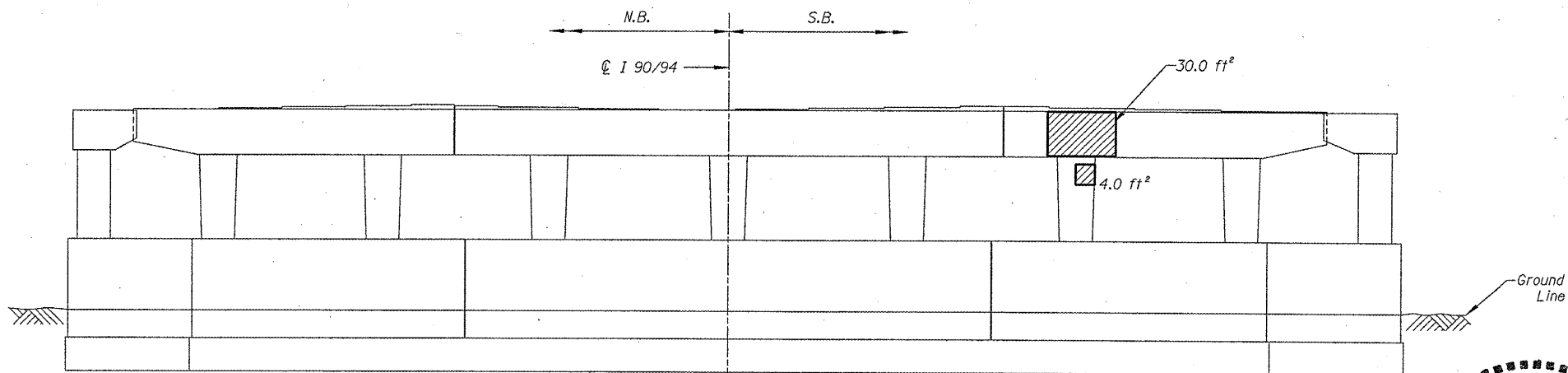
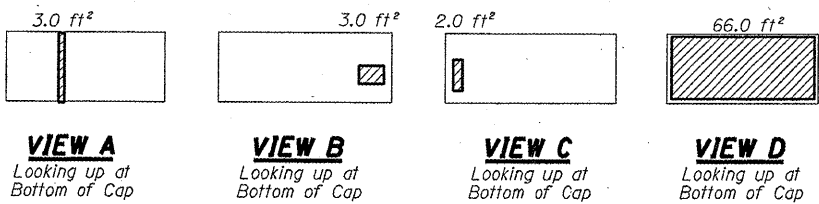
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1115  
PIERS 16, 21, & 22

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 55           |

CONTRACT NO. 60P27



**PIER 1 - WEST ELEVATION**  
(Looking East)



**PIER 1 - EAST ELEVATION**  
(Looking West)

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 222.0    |

■ - Structural Repair of Concrete (Depth equal to or less than 5")



*David Carl Puzey* 5/13/11  
Expires 11/30/2012

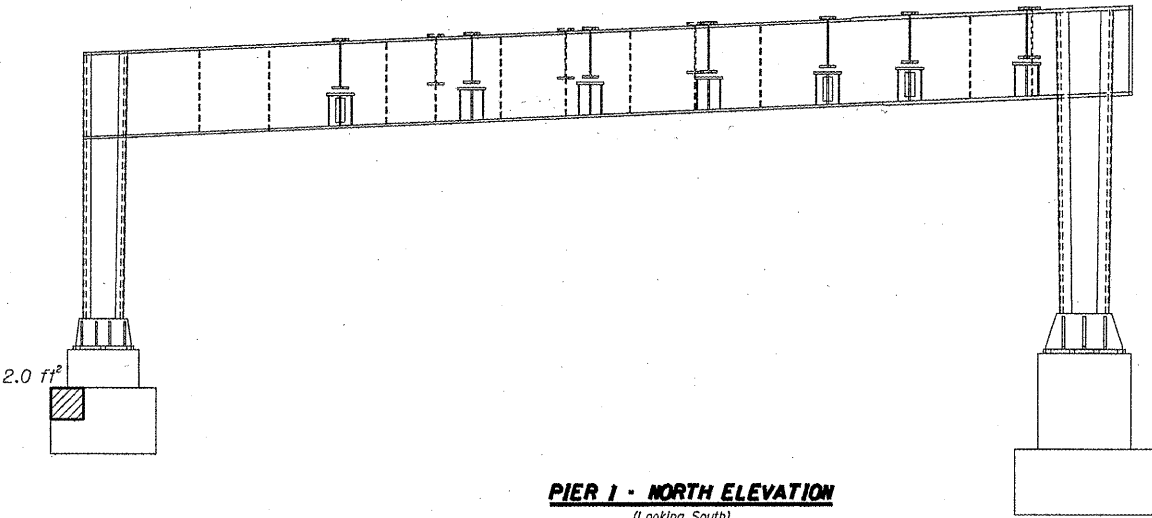
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1116  
PIER 1

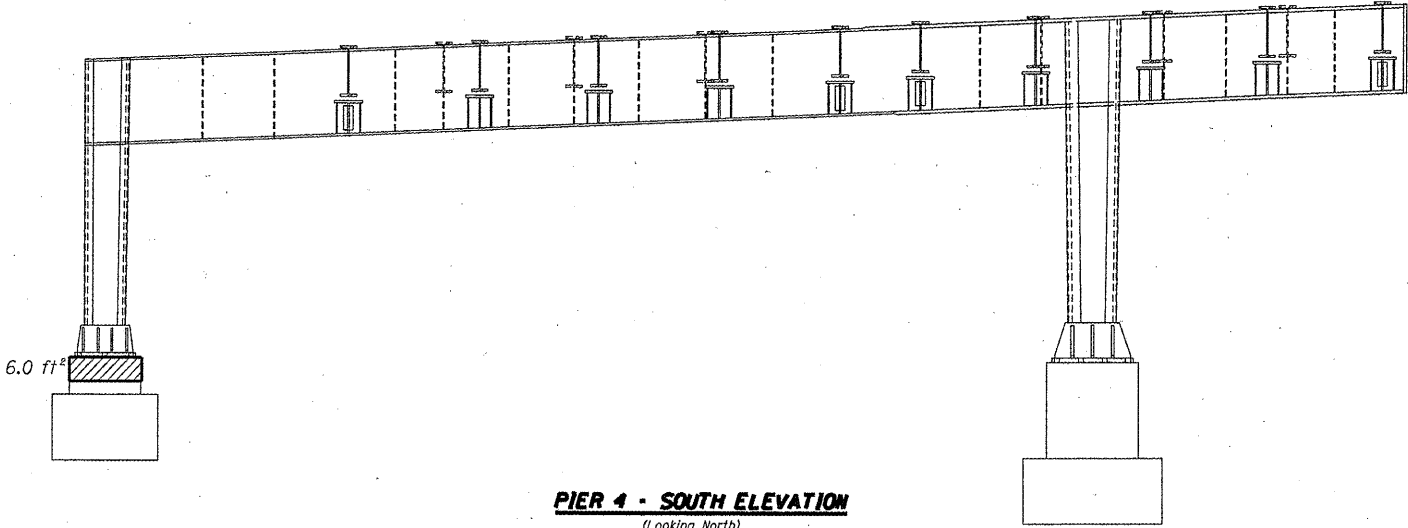


| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 56           |

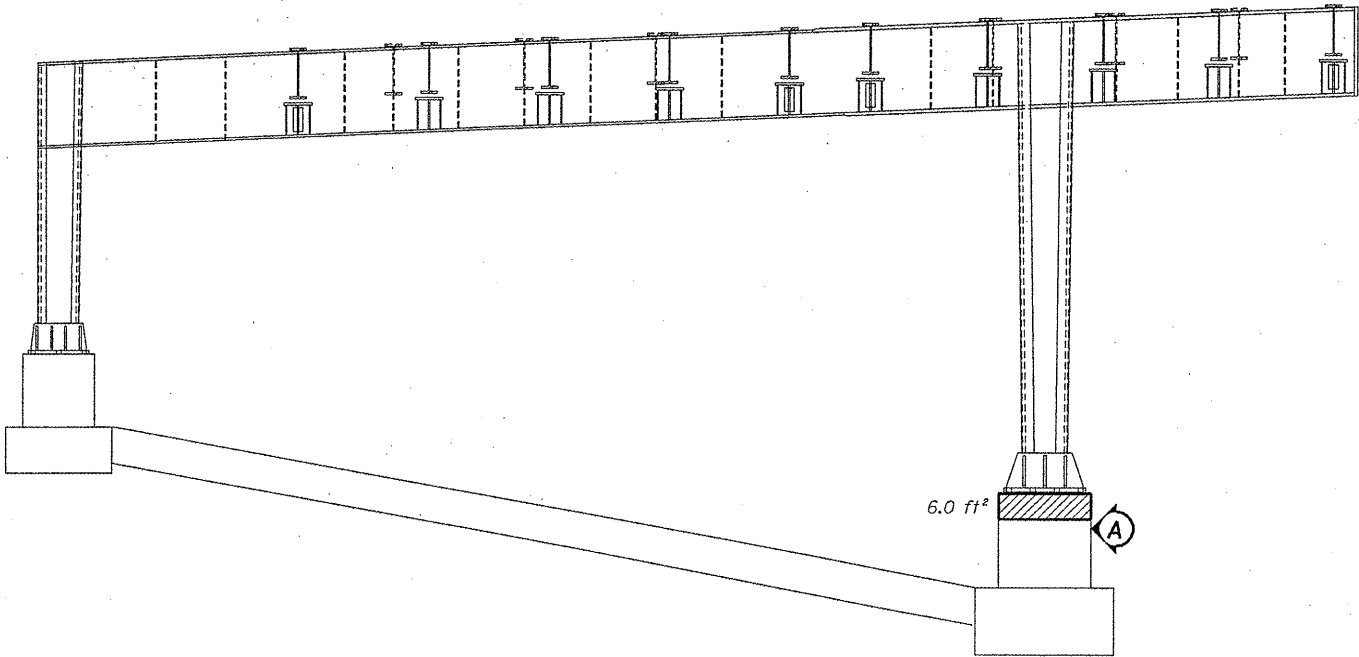
CONTRACT NO. 60P27



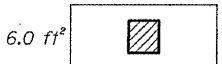
**PIER 1 - NORTH ELEVATION**  
(Looking South)



**PIER 4 - SOUTH ELEVATION**  
(Looking North)



**PIER 5 - SOUTH ELEVATION**  
(Looking North)



**PIER 5 - VIEW A**  
Looking West at  
Side of Pedestal

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 20.0     |

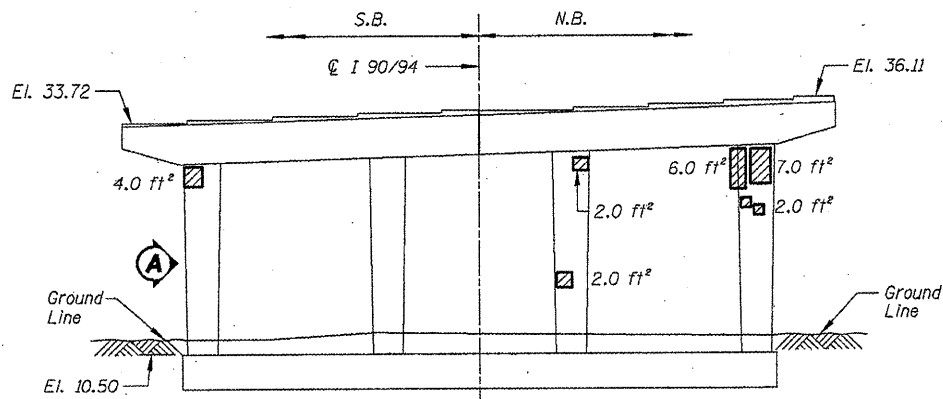
▨ - Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

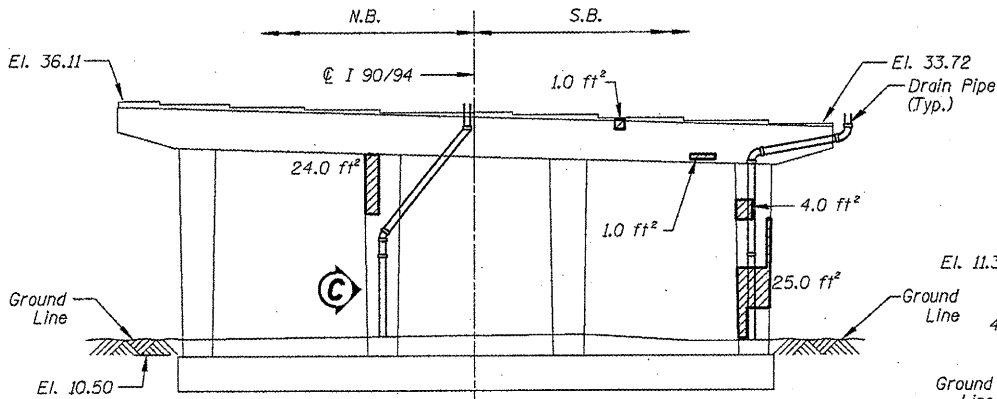
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1117  
PIERS 1, 4, & 5

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 57           |

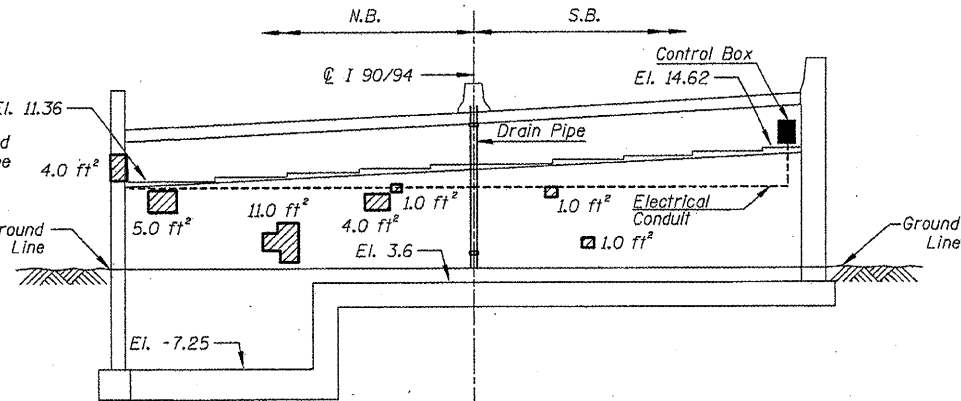
CONTRACT NO. 60P27



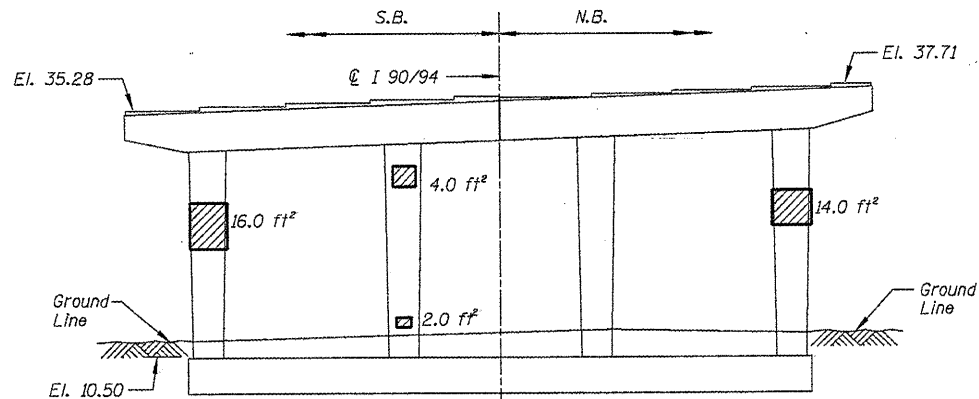
PIER 8 - SOUTH ELEVATION  
(Looking North)



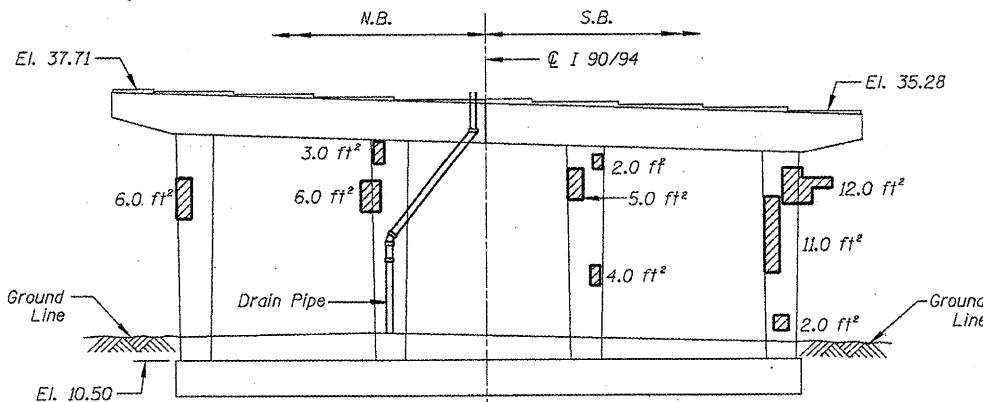
PIER 8 - NORTH ELEVATION  
(Looking South)



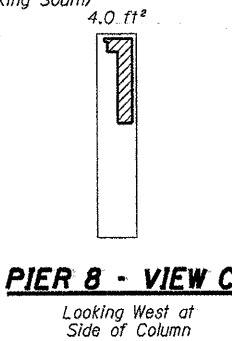
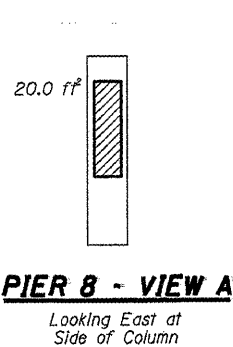
SOUTH ABUTMENT - NORTH ELEVATION  
(Looking South)



PIER 9 - SOUTH ELEVATION  
(Looking North)



PIER 9 - NORTH ELEVATION  
(Looking South)



Structural Repair of Concrete (Depth equal to or less than 5")

BILL OF MATERIAL

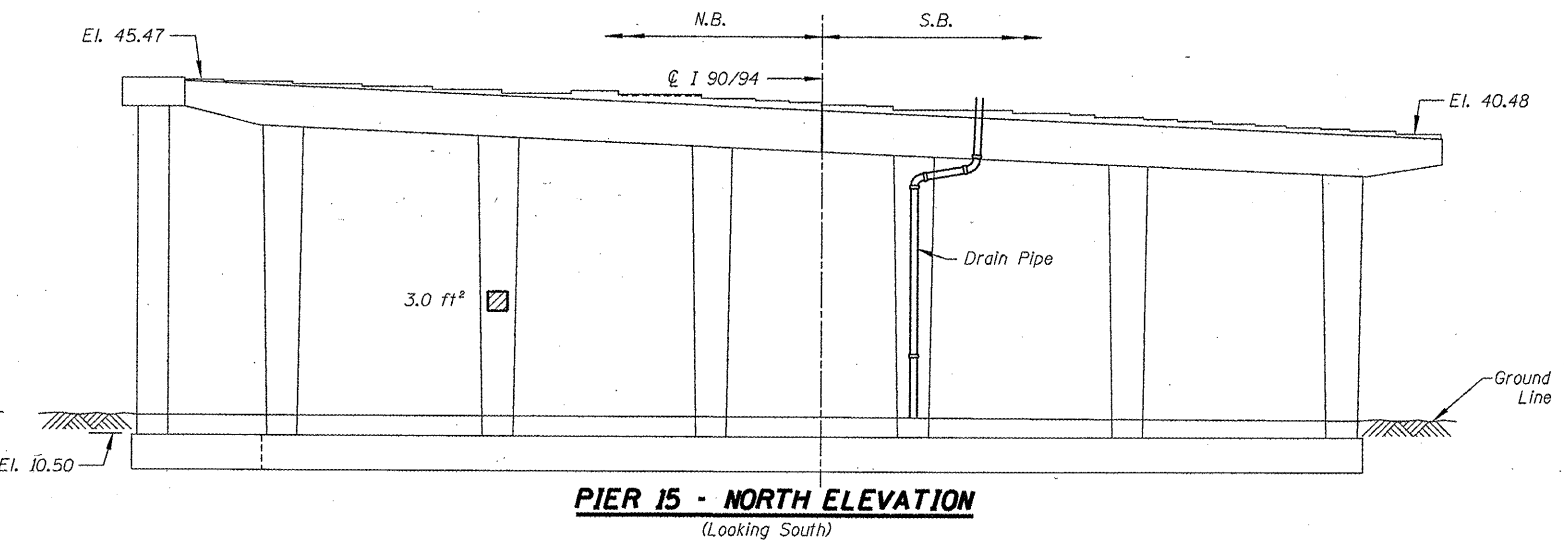
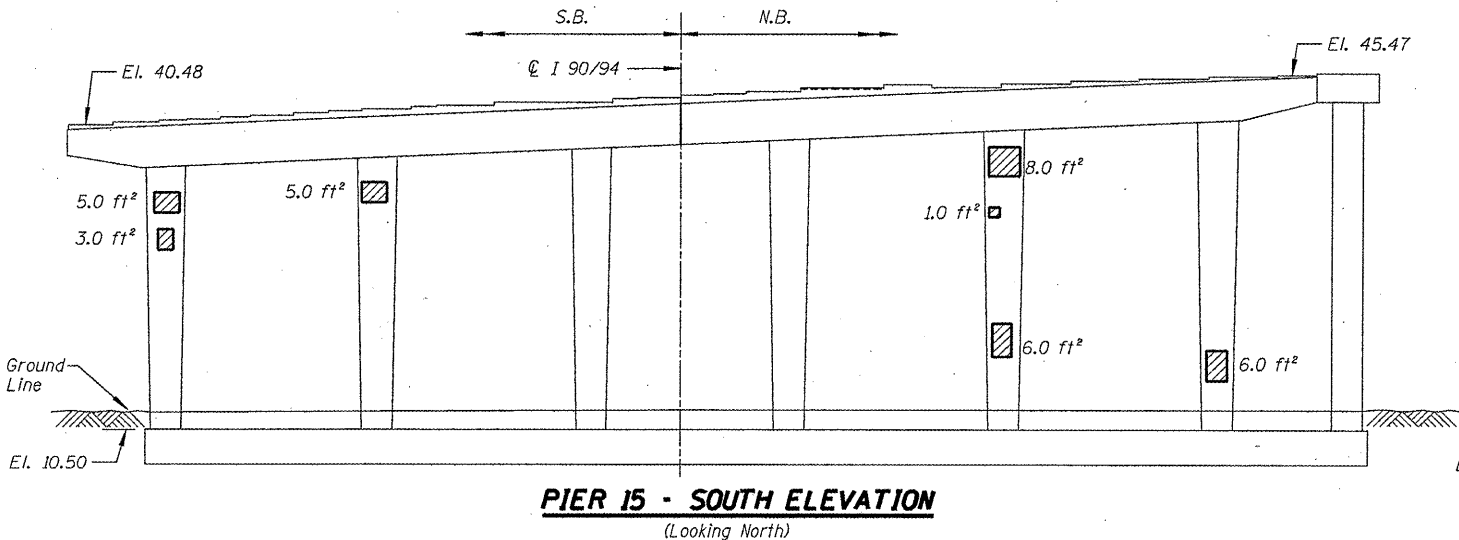
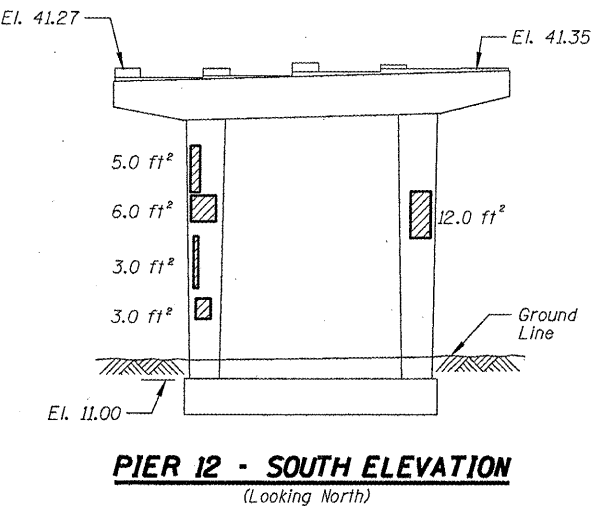
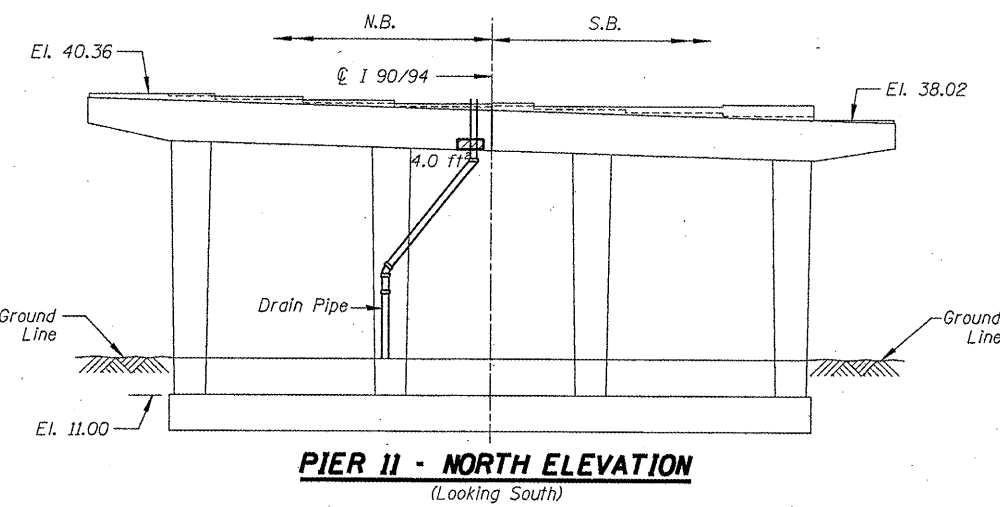
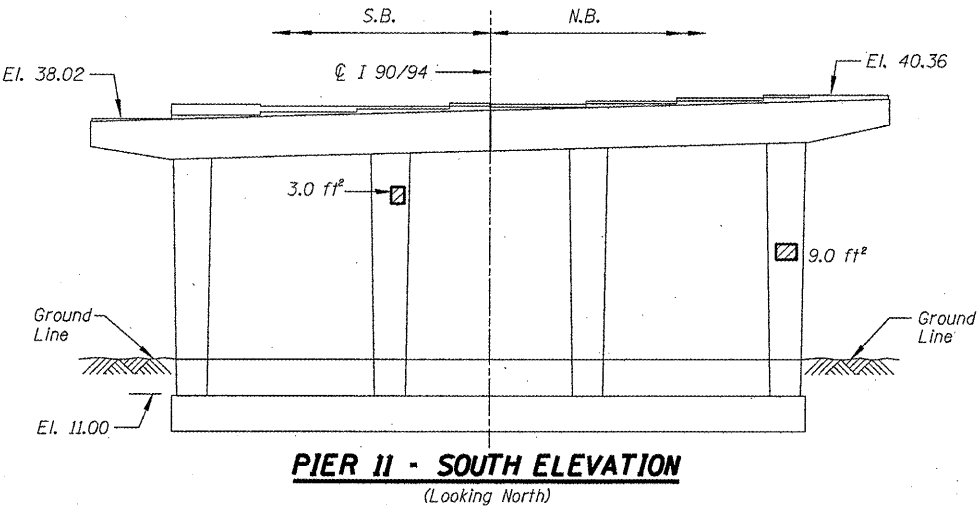
| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 302.0    |

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1117  
PIERS 8, 9, 10, & S. ABUT.

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 58           |

CONTRACT NO. 60P27



**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 82.0     |

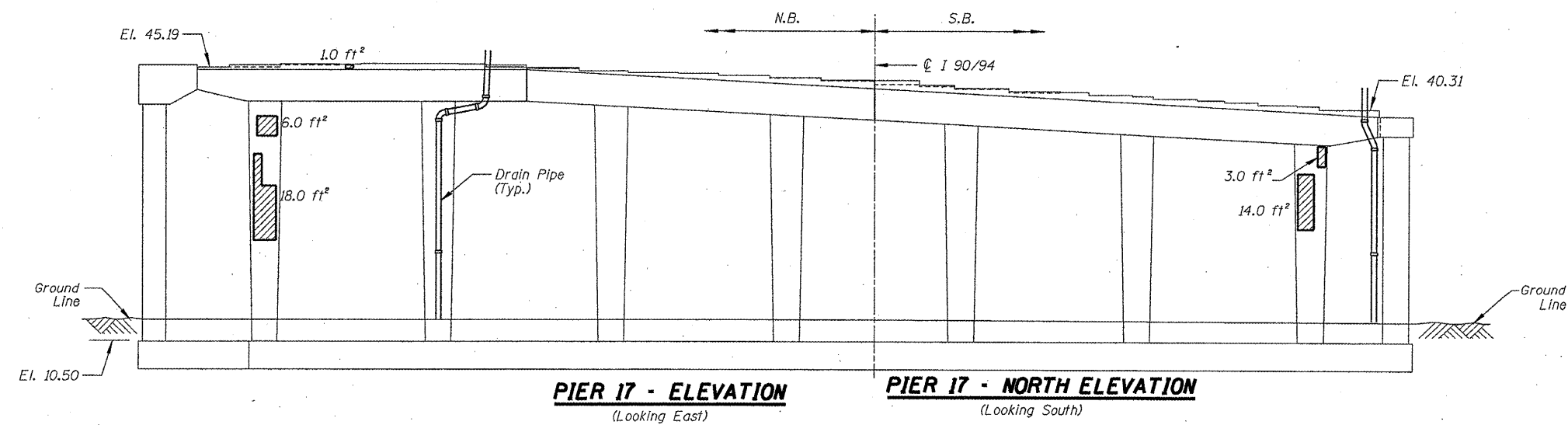
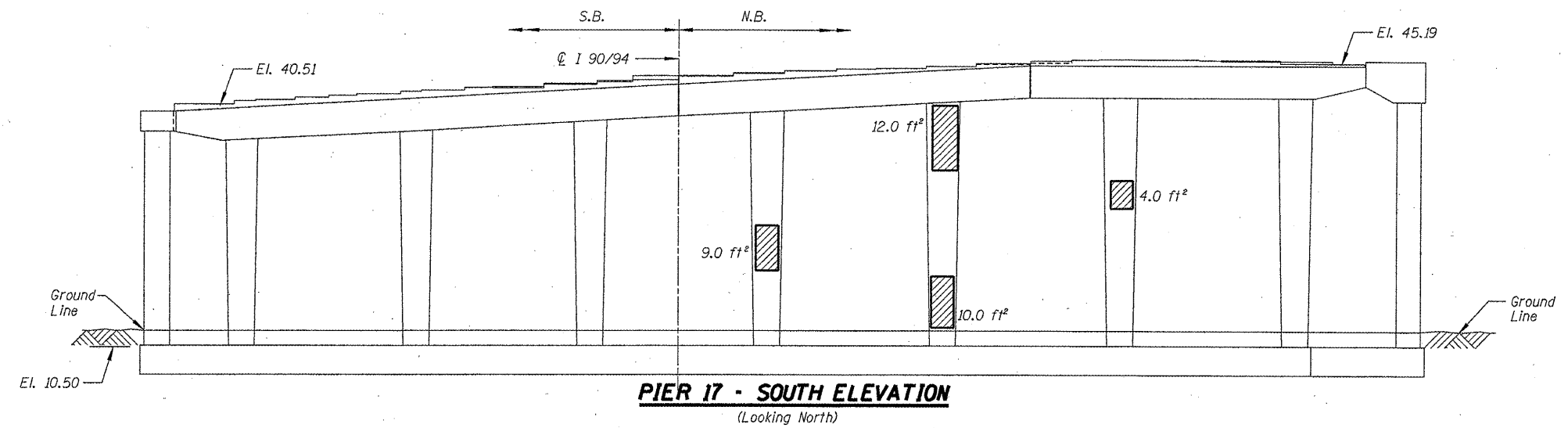
▨ - Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1117  
PIERS 11, 12, & 15

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 59           |

CONTRACT NO. 60P27



▨ - Structural Repair of Concrete (Depth equal to or less than 5")

**BILL OF MATERIAL**

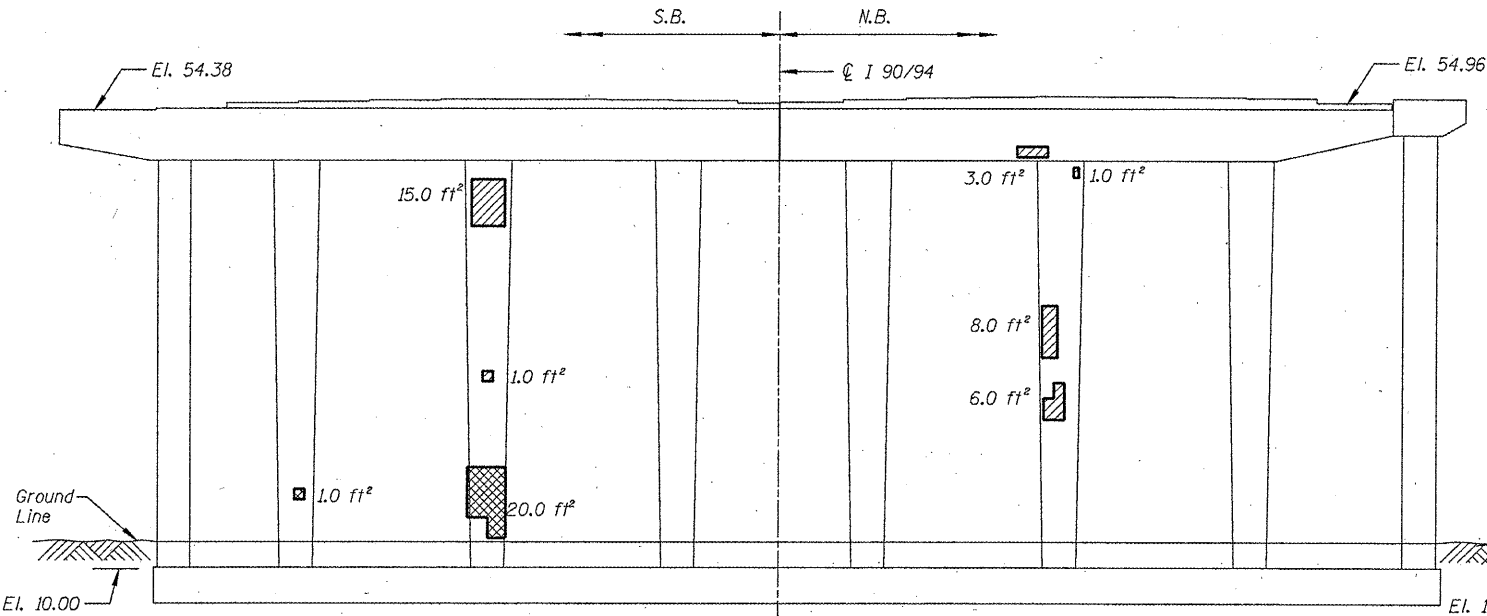
| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 77.0     |

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

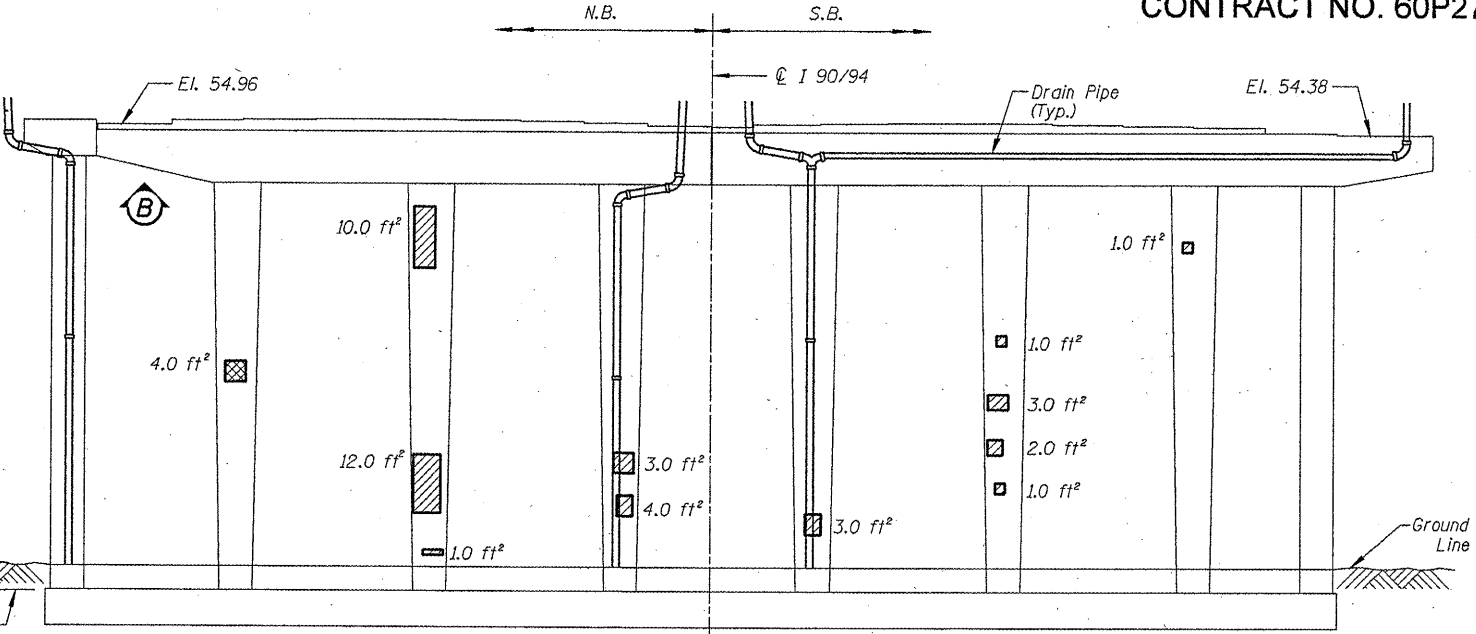
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1117  
PIER 17

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 60           |

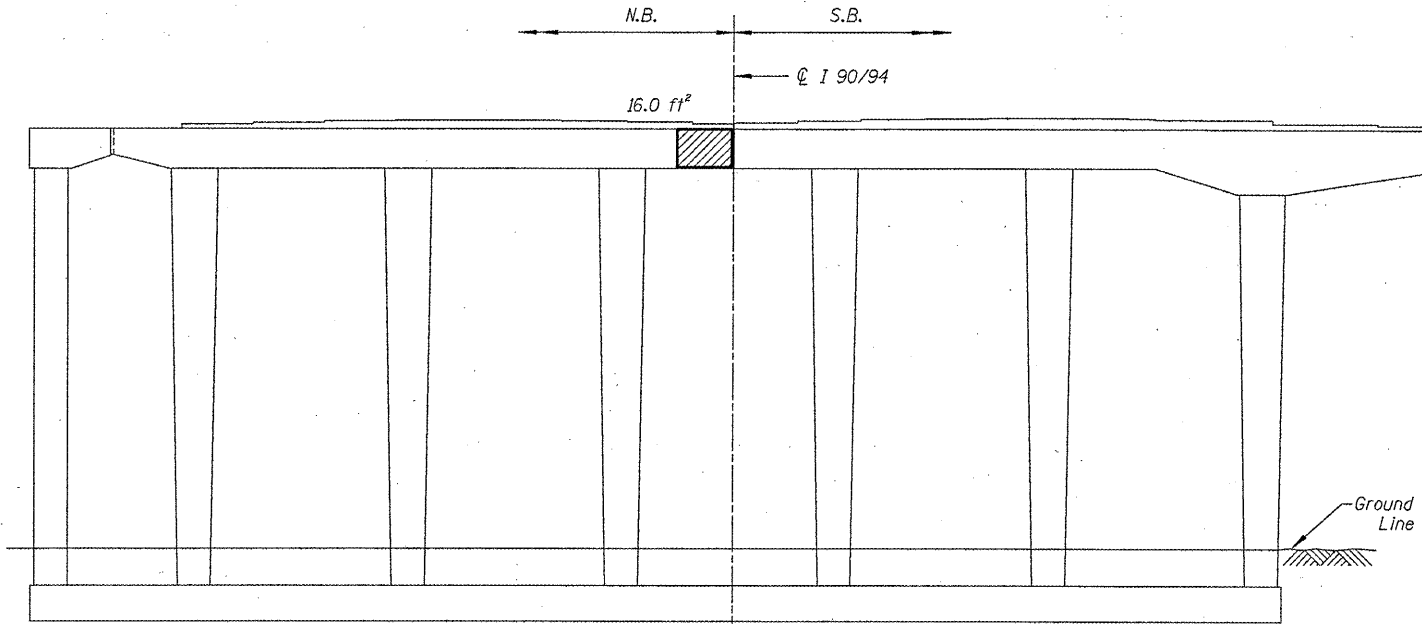
CONTRACT NO. 60P27



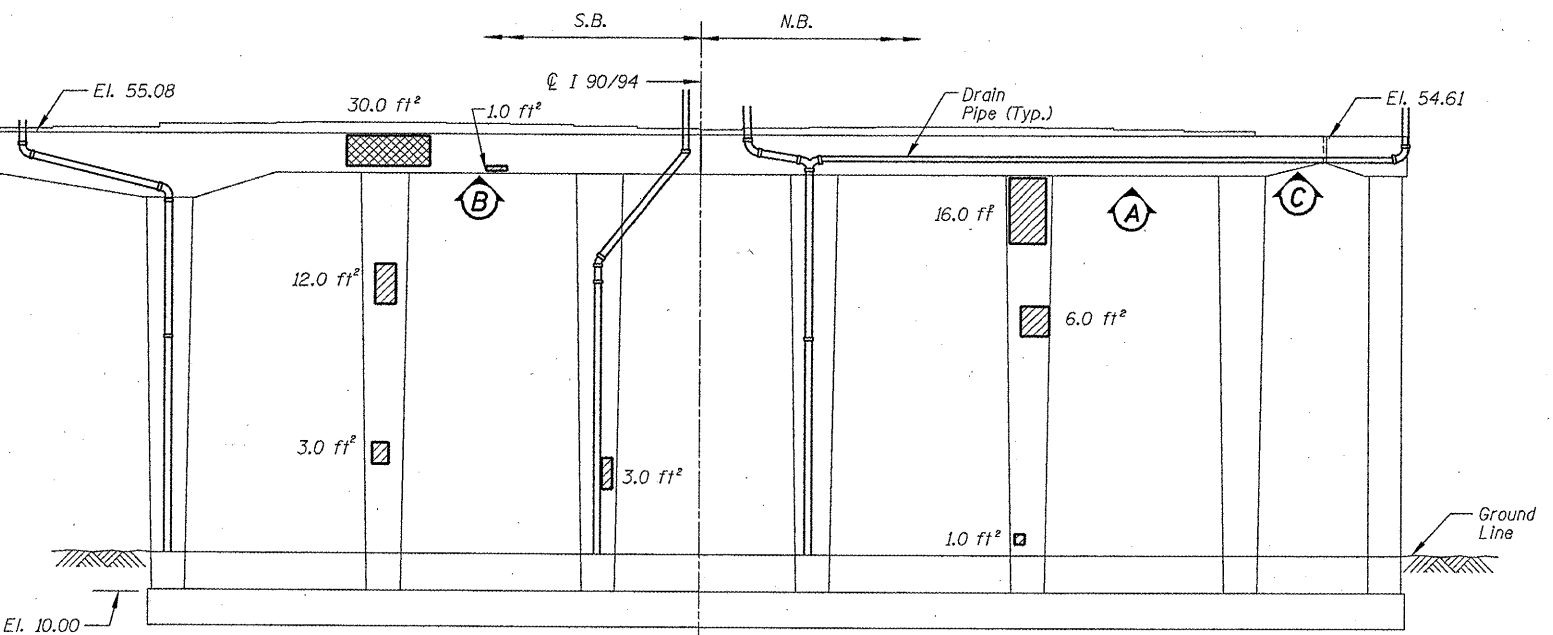
**PIER 24 - SOUTH ELEVATION**  
(Looking North)



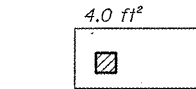
**PIER 24 - NORTH ELEVATION**  
(Looking South)



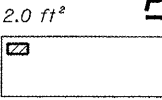
**PIER 25 - SOUTH ELEVATION**  
(Looking North)



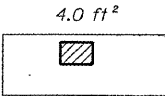
**PIER 25 - NORTH ELEVATION**  
(Looking South)



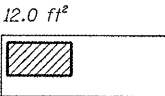
**PIER 24 - VIEW B**  
Looking up at  
Bottom of Cap



**PIER 25 - VIEW A**  
Looking up at  
Bottom of Cap



**PIER 25 - VIEW B**  
Looking up at  
Bottom of Cap



**PIER 25 - VIEW C**  
Looking up at  
Bottom of Cap

- Structural Repair of Concrete (Depth equal to or less than 5")
- Structural Repair of Concrete (Depth greater than 5")

**BILL OF MATERIAL**

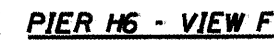
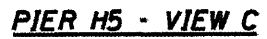
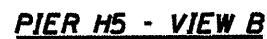
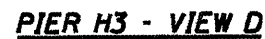
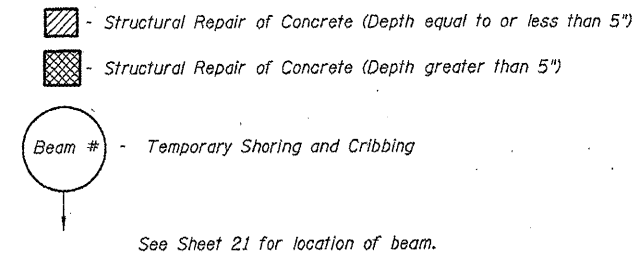
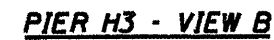
| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 155.0    |
| Structural Repair of Concrete (Depth greater than 5")          | SQ. FT. | 55.0     |

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1117  
PIERS 24 & 25



CONTRACT NO. 60P27

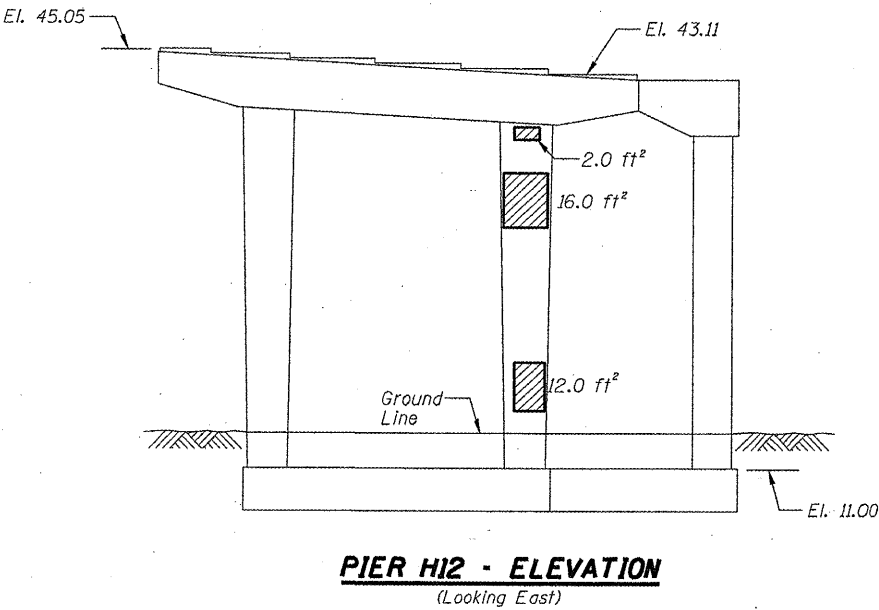
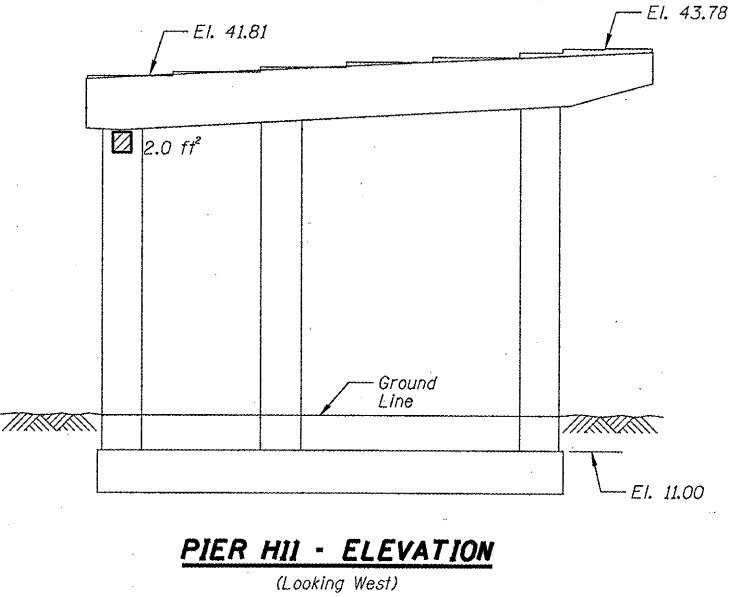
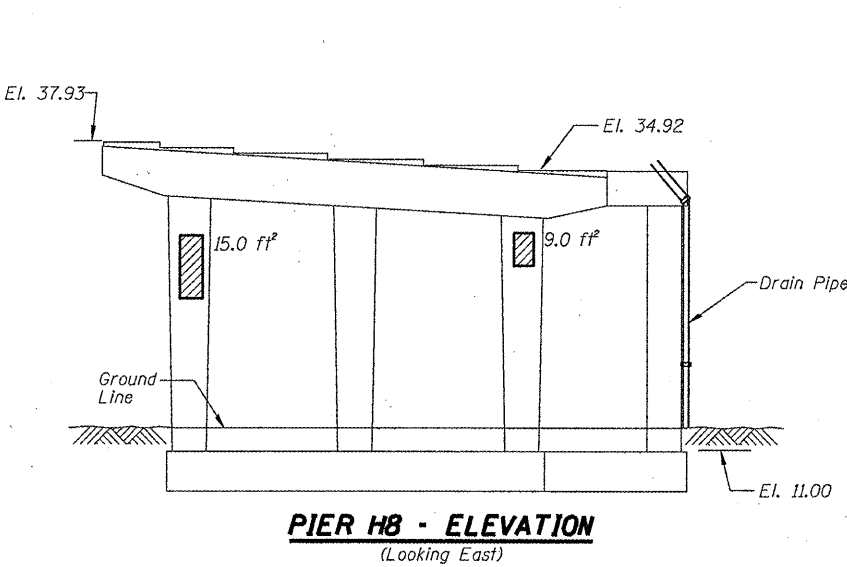
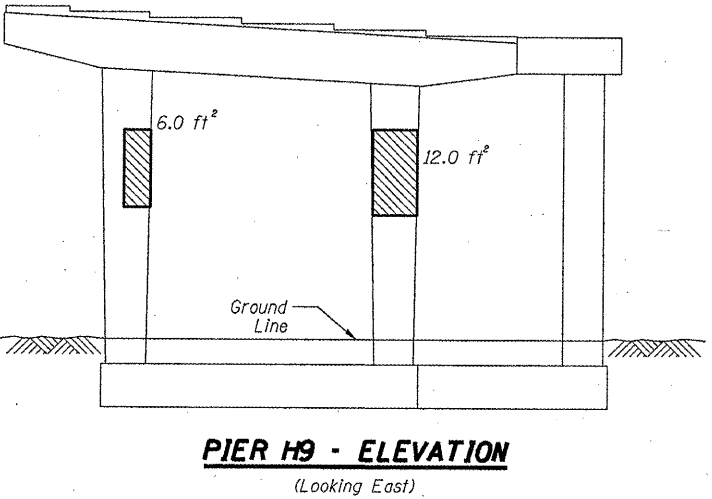
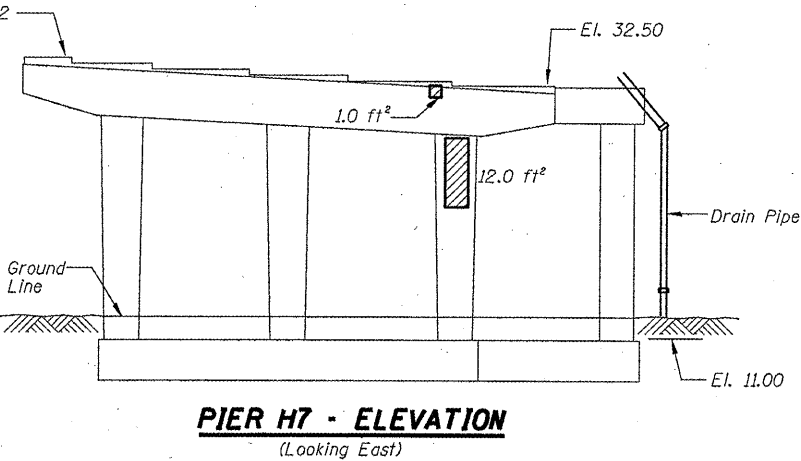
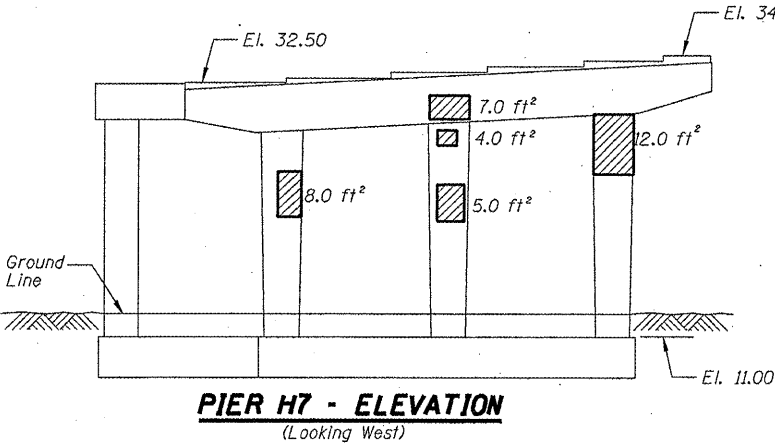


| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 674.0    |
| Structural Repair of Concrete<br>(Depth greater than 5")          | SQ. FT. | 28.0     |
| Temporary Shoring and Cribbing                                    | EACH    | 4        |

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1118  
PIERS H3, H5, H6, & ABUT. H

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 62           |

CONTRACT NO. 60P27



▨ - Structural Repair of Concrete (Depth equal to or less than 5")

**BILL OF MATERIAL**

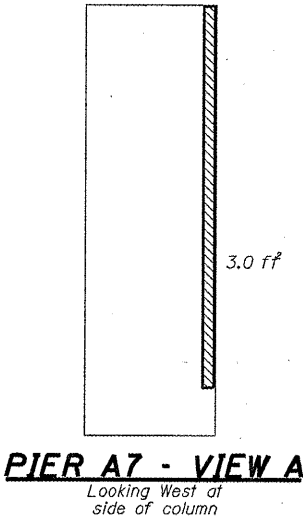
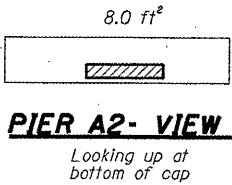
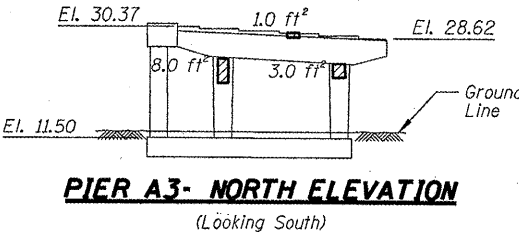
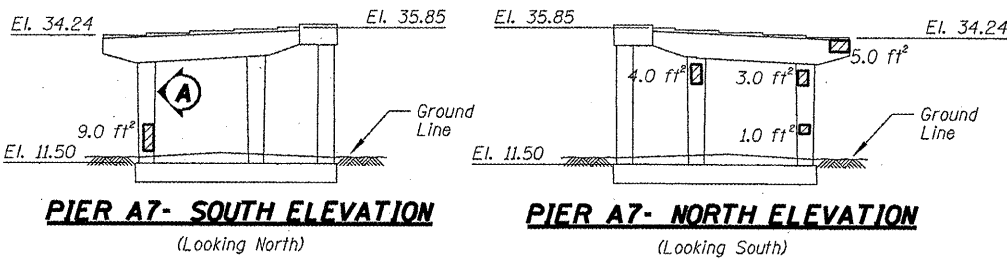
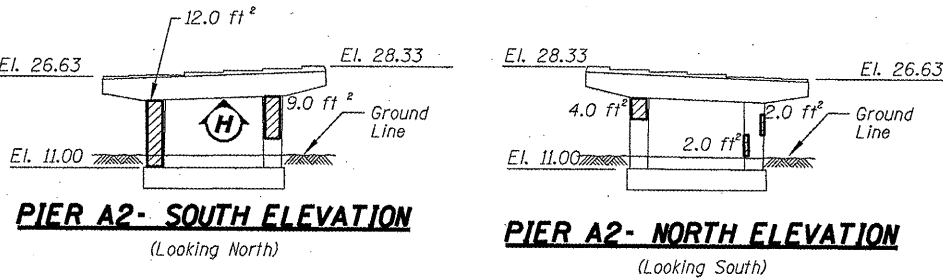
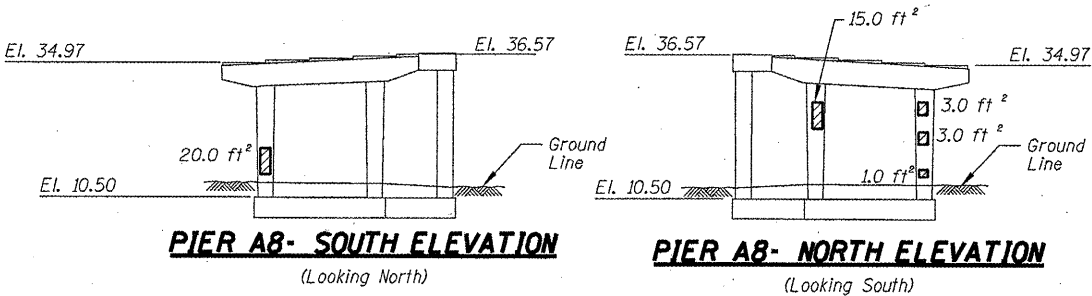
| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 123.0    |

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1118  
PIERS H7, H8, H9, H11, & H12

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 63           |

CONTRACT NO. 60P27



▨ - Structural Repair of Concrete (Depth equal to or less than 5")



David Carl Puzey 5/13/11  
Expires 11/30/2012

**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 116.0    |

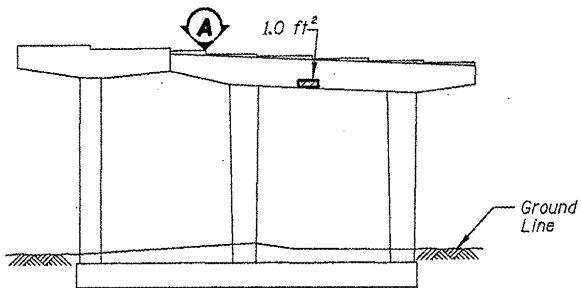
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1067  
PIERS A2, A3, A7, & A8

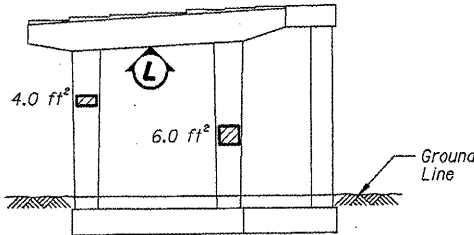


| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 64           |

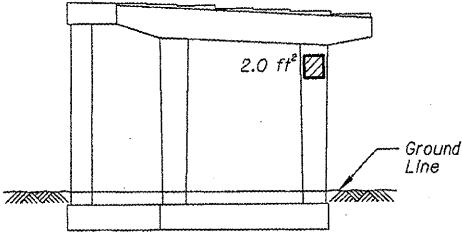
CONTRACT NO. 60P27



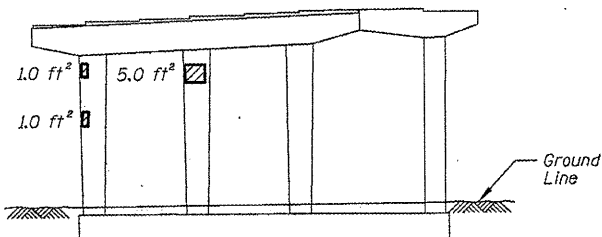
**PIER A15- NORTH ELEVATION**  
(Looking South)



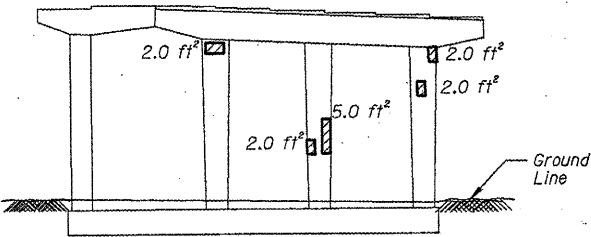
**PIER A10- SOUTH ELEVATION**  
(Looking North)



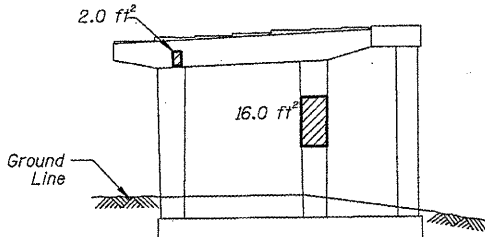
**PIER A10- NORTH ELEVATION**  
(Looking South)



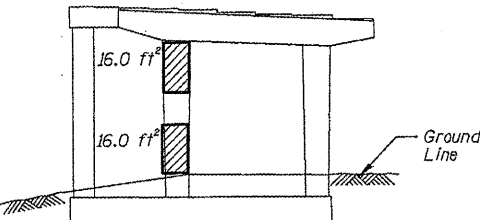
**PIER A14- SOUTH ELEVATION**  
(Looking North)



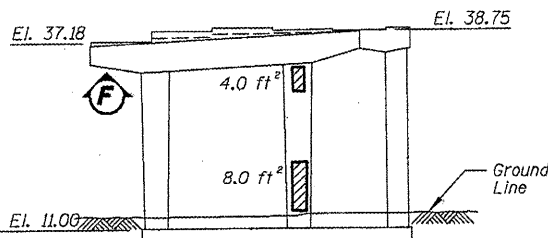
**PIER A14- NORTH ELEVATION**  
(Looking South)



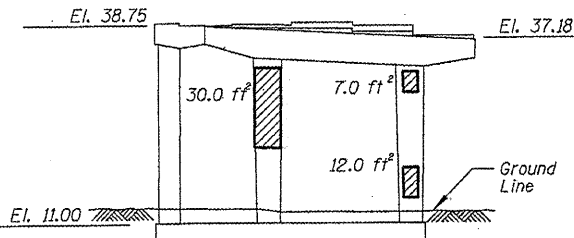
**PIER A9- SOUTH ELEVATION**  
(Looking North)



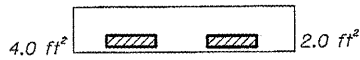
**PIER A9- NORTH ELEVATION**  
(Looking South)



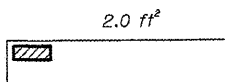
**PIER A12- SOUTH ELEVATION**  
(Looking North)



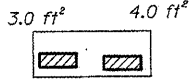
**PIER A12- NORTH ELEVATION**  
(Looking South)



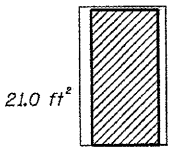
**PIER A15- VIEW A**  
Looking down at  
top of seat



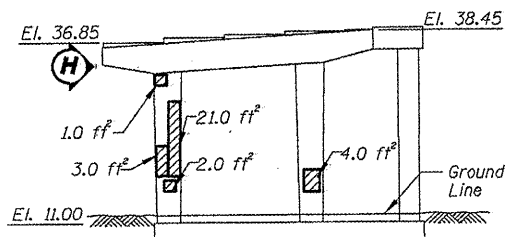
**PIER A10- VIEW L**  
Looking up at  
bottom of cap



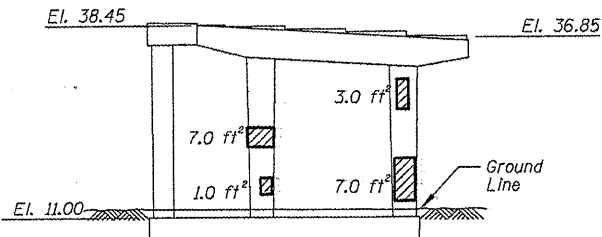
**PIER A12- VIEW F**  
Looking up at  
bottom of cap



**PIER A11- VIEW H**  
Looking East at  
end of cap



**PIER A11- SOUTH ELEVATION**  
(Looking North)



**PIER A11- NORTH ELEVATION**  
(Looking South)

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 229.0    |

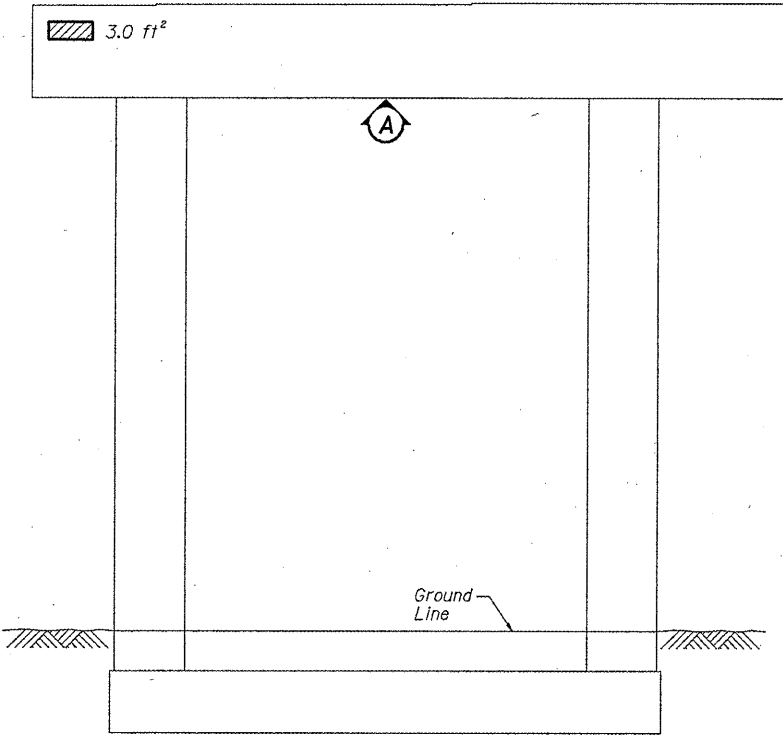
- Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

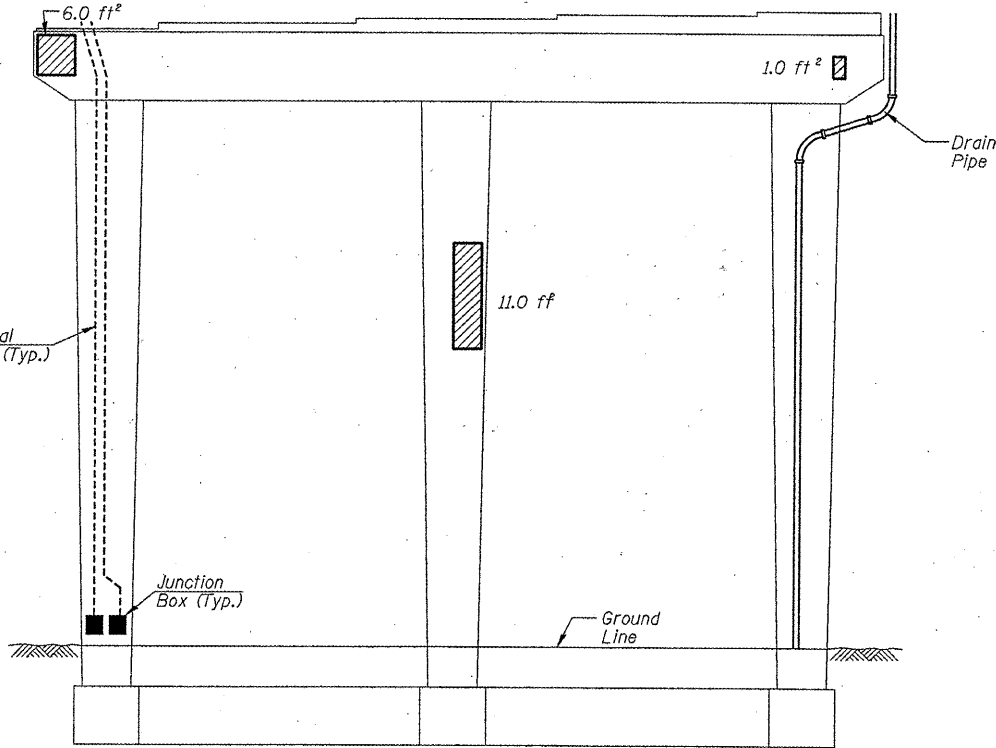
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1067  
PIERS A9 - A12, A14, & A15

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 65           |

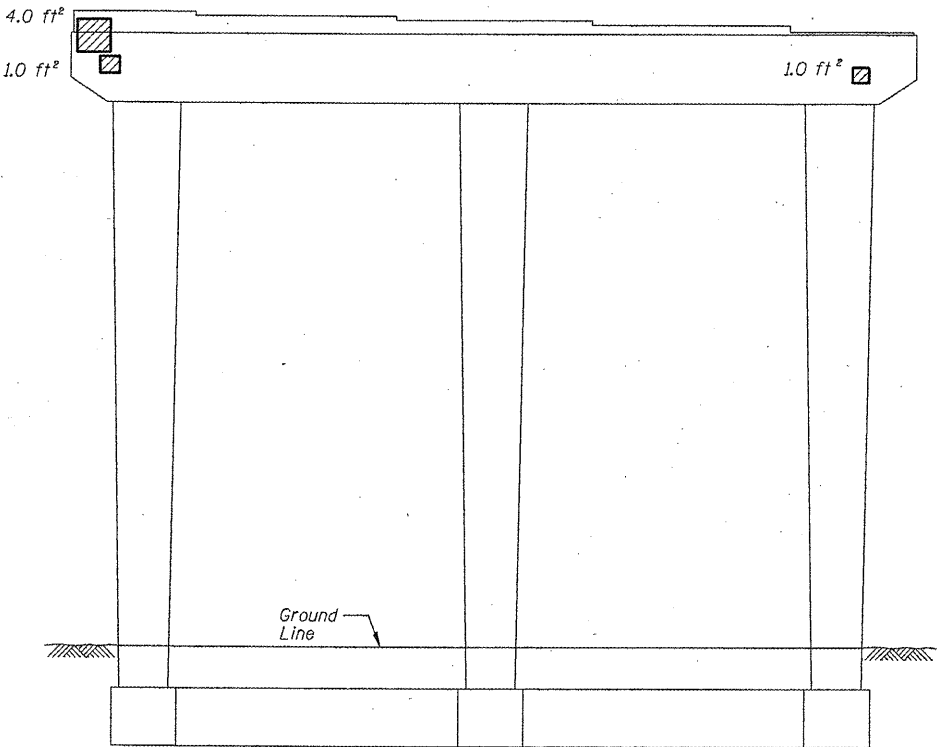
CONTRACT NO. 60P27



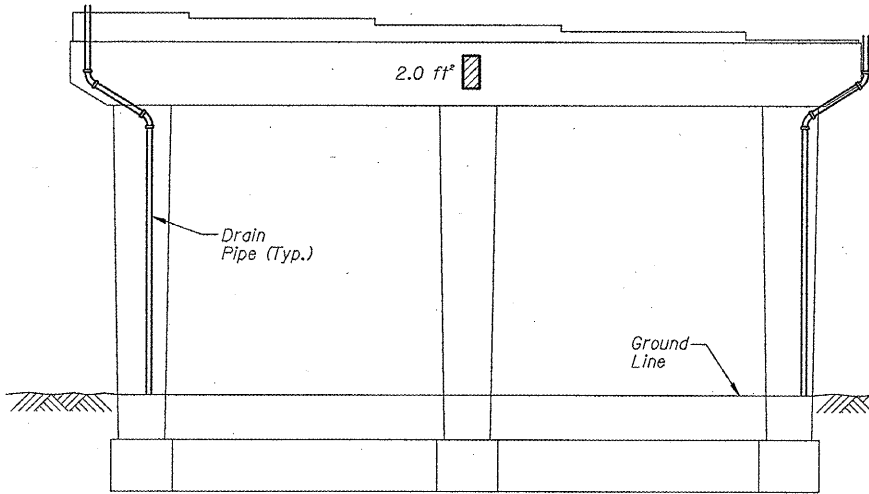
**PIER 11 - SOUTH ELEVATION**  
(Looking North)



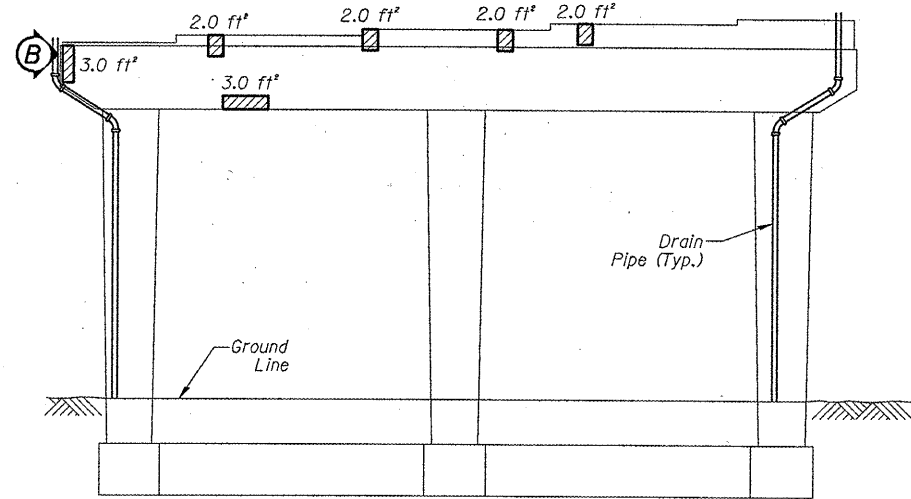
**PIER 12 - SOUTH ELEVATION**  
(Looking North)



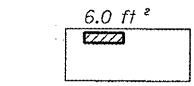
**PIER 12 - NORTH ELEVATION**  
(Looking South)



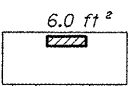
**PIER 14 - NORTH ELEVATION**  
(Looking South)



**PIER 14 - SOUTH ELEVATION**  
(Looking North)



**PIER 11 - VIEW A**  
Looking up at bottom of cap



**PIER 14 - VIEW B**  
Looking East at side of cap

**BILL OF MATERIAL**

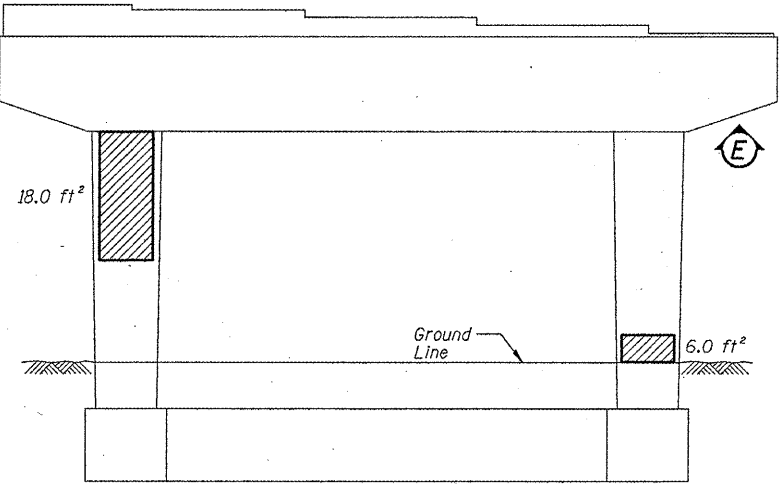
| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 55.0     |

- Structural Repair of Concrete (Depth equal to or less than 5").

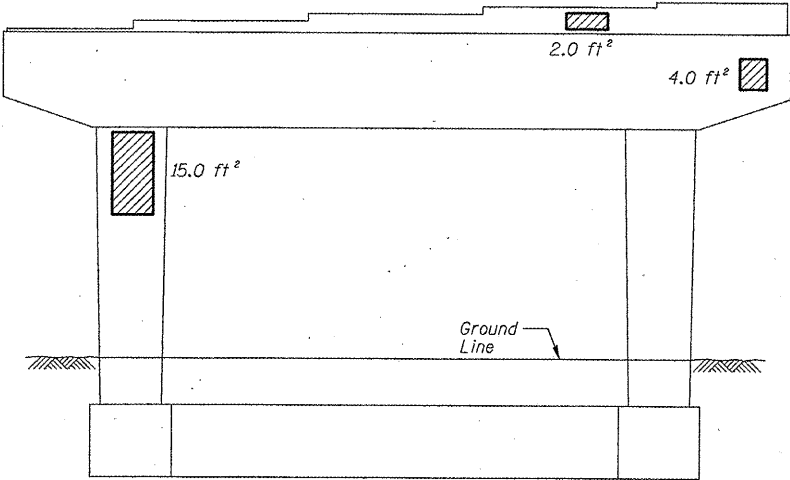
ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1140  
PIERS 11,12, & 14

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 66           |

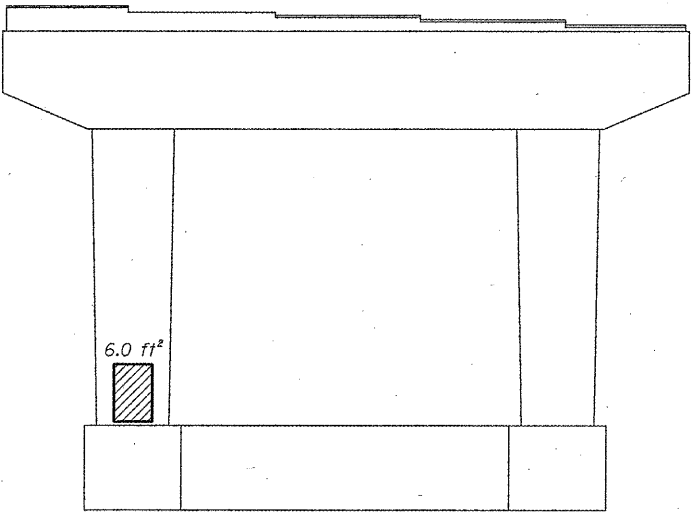
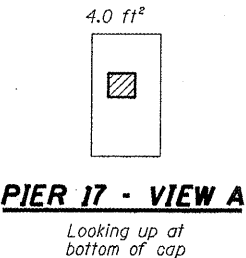
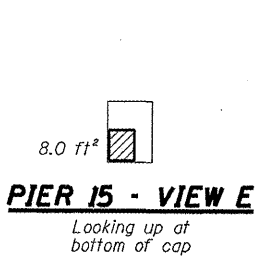
CONTRACT NO. 60P27



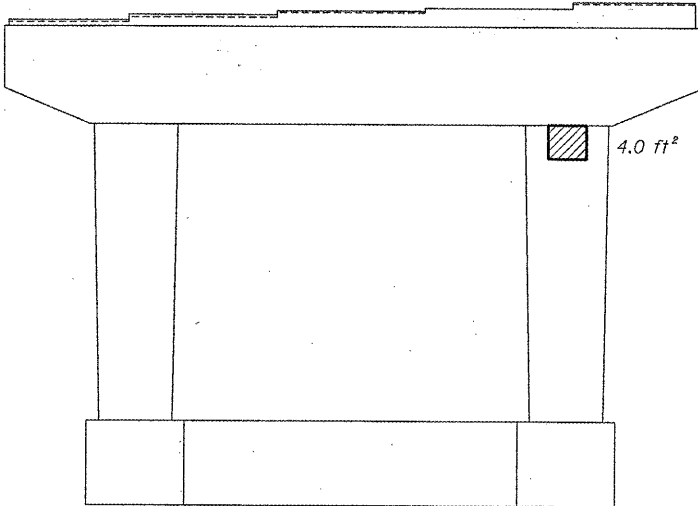
**PIER 15 - NORTH ELEVATION**  
(Looking South)



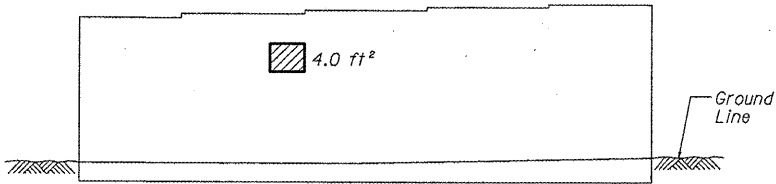
**PIER 15 - SOUTH ELEVATION**  
(Looking North)



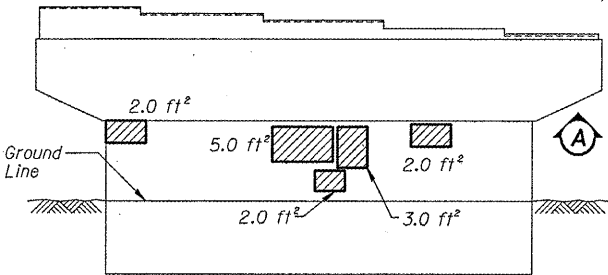
**PIER 16 - NORTH ELEVATION**  
(Looking South)



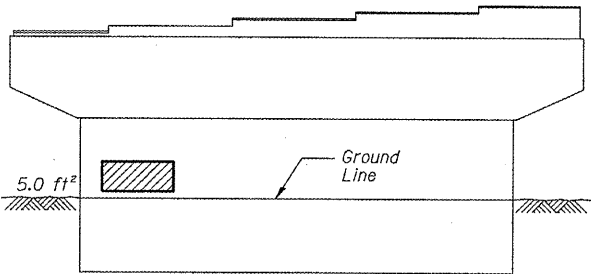
**PIER 16 - SOUTH ELEVATION**  
(Looking North)



**ABUTMENT 18 - WEST ELEVATION**  
(Looking East)



**PIER 17 - NORTH ELEVATION**  
(Looking South)



**PIER 17 - SOUTH ELEVATION**  
(Looking North)

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 90.0     |

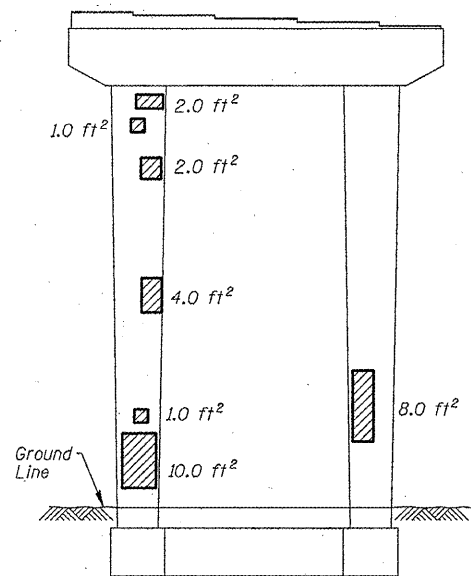
▨ - Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

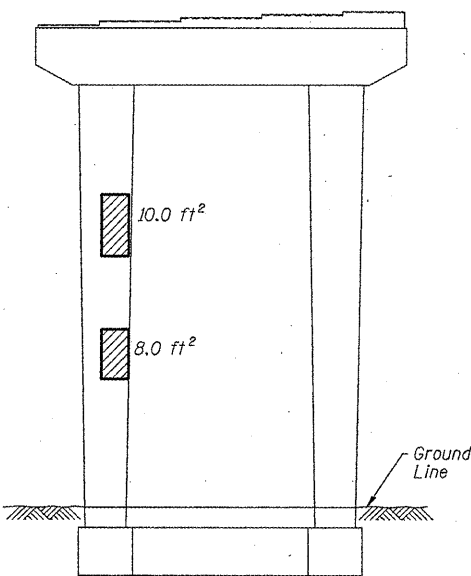
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1140  
PIERS 15, 16, 17, & ABUT 18

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 67           |

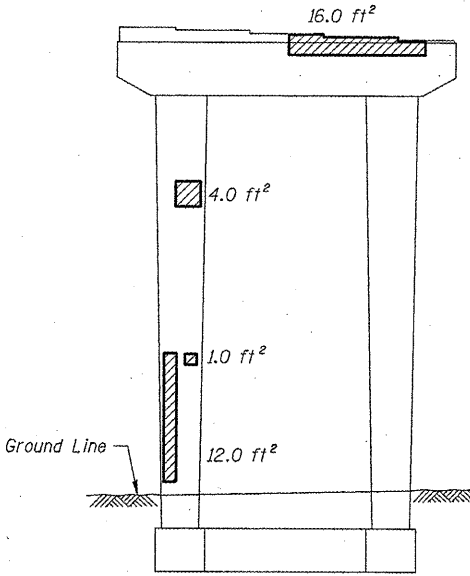
CONTRACT NO. 60P27



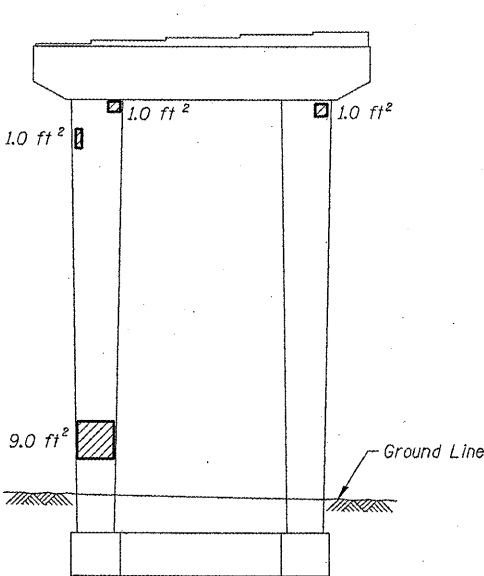
**PIER 53 - WEST ELEVATION**  
(Looking East)



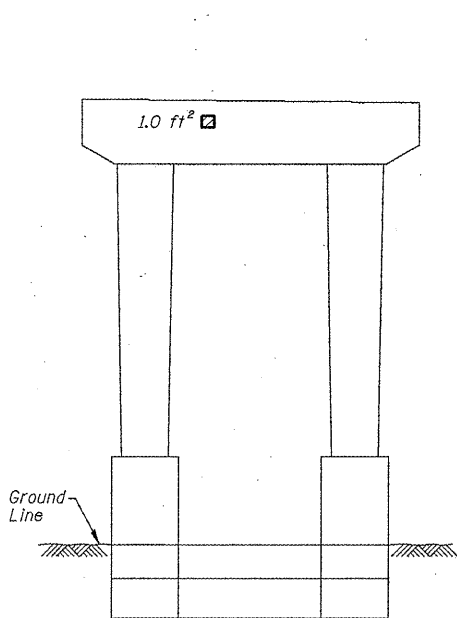
**PIER 53 - EAST ELEVATION**  
(Looking West)



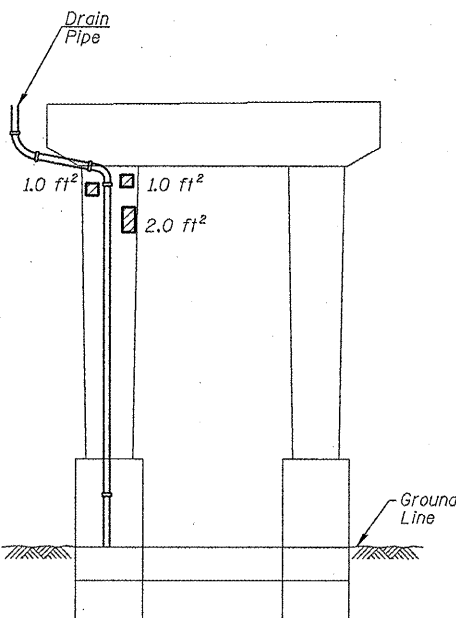
**PIER 51 - WEST ELEVATION**  
(Looking East)



**PIER 51 - EAST ELEVATION**  
(Looking West)



**PIER 52 - WEST ELEVATION**  
(Looking East)



**PIER 52 - EAST ELEVATION**  
(Looking West)

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 96.0     |

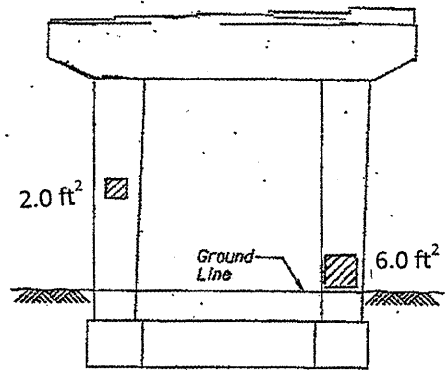
▨ - Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

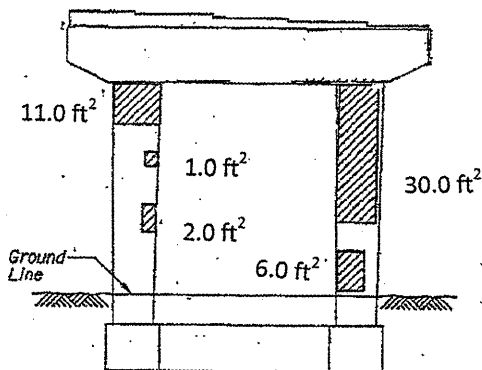
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1046  
PIERS 51, 52, & 53

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 68           |

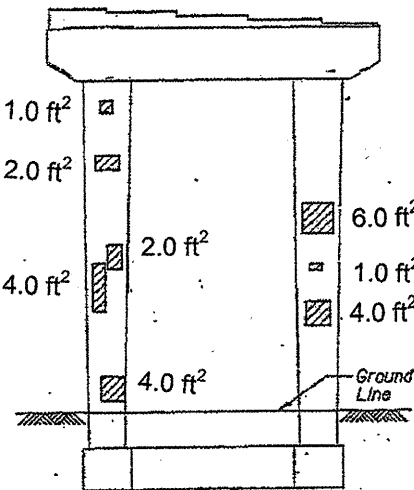
CONTRACT NO. 60P27



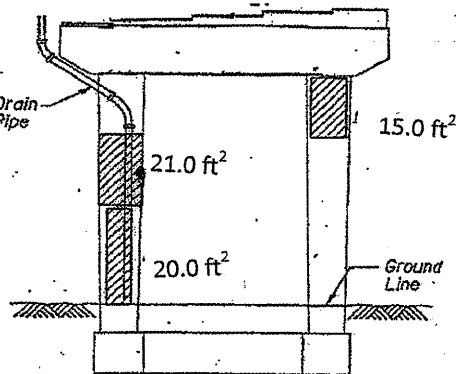
PIER 86 - WEST ELEVATION  
(Looking East)



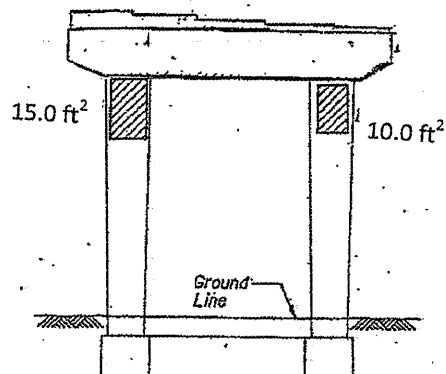
PIER 86 - EAST ELEVATION  
(Looking West)



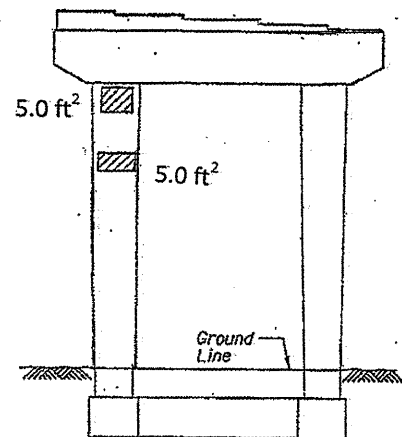
PIER 83 - SOUTH ELEVATION  
(Looking North)



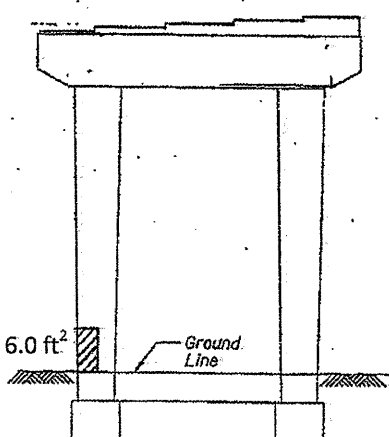
PIER 85 - WEST ELEVATION  
(Looking East)



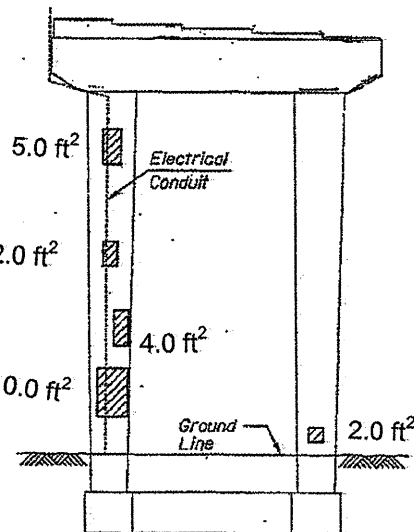
PIER 85 - EAST ELEVATION  
(Looking West)



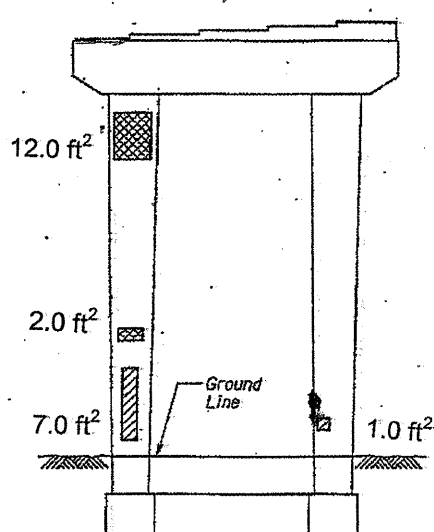
PIER 84 - SOUTH ELEVATION  
(Looking North)



PIER 84 - NORTH ELEVATION  
(Looking South)



PIER 82 - SOUTH ELEVATION  
(Looking North)



PIER 82 - NORTH ELEVATION  
(Looking South)



*David Carl Puze* 5/13/11  
Expires 11/30/2012

**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 210.0    |
| Structural Repair of Concrete (Depth greater than 5")          | SQ. FT. | 14.0     |

- ▨ - Structural Repair of Concrete (Depth equal to or less than 5")  
▣ - Structural Repair of Concrete (Depth greater than 5")

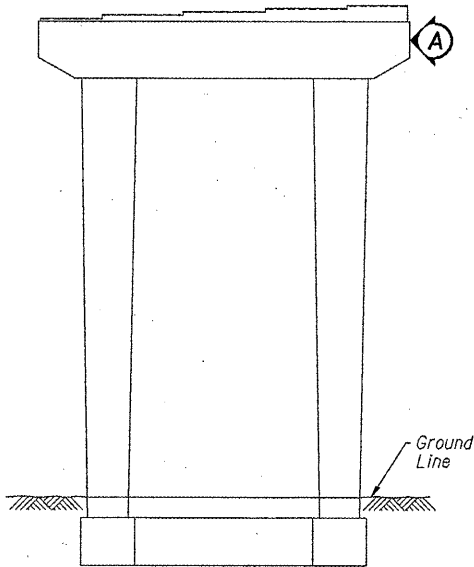
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1050  
PIERS 82 - 86

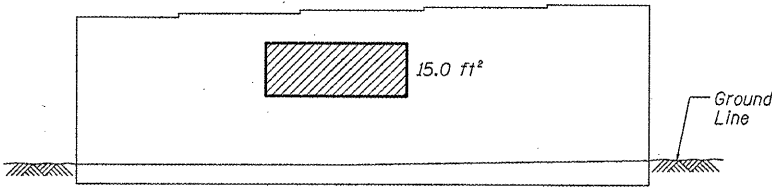


| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 69           |

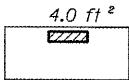
CONTRACT NO. 60P27



**PIER 87 - EAST ELEVATION**  
(Looking West)



**ABUTMENT 87 - EAST ELEVATION**  
(Looking West)



**PIER 87 - VIEW A**  
Looking South  
at side of cap

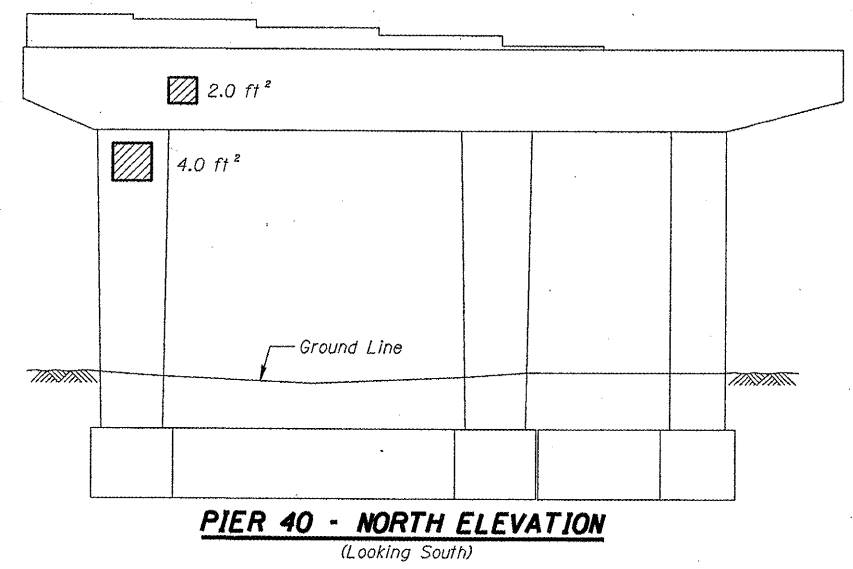
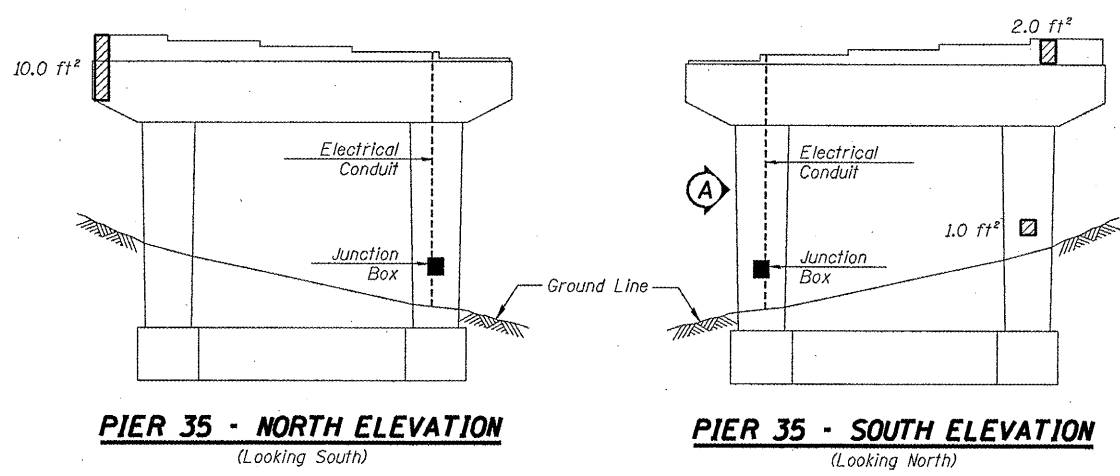
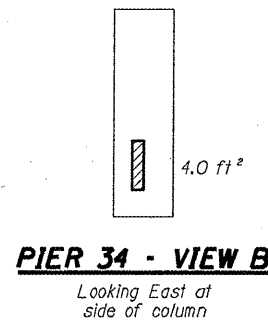
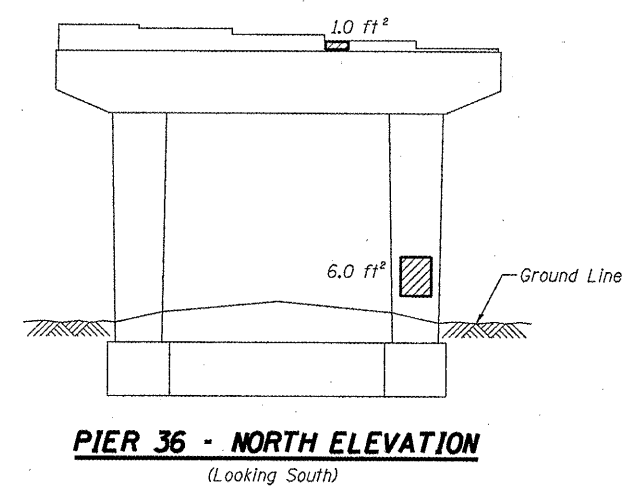
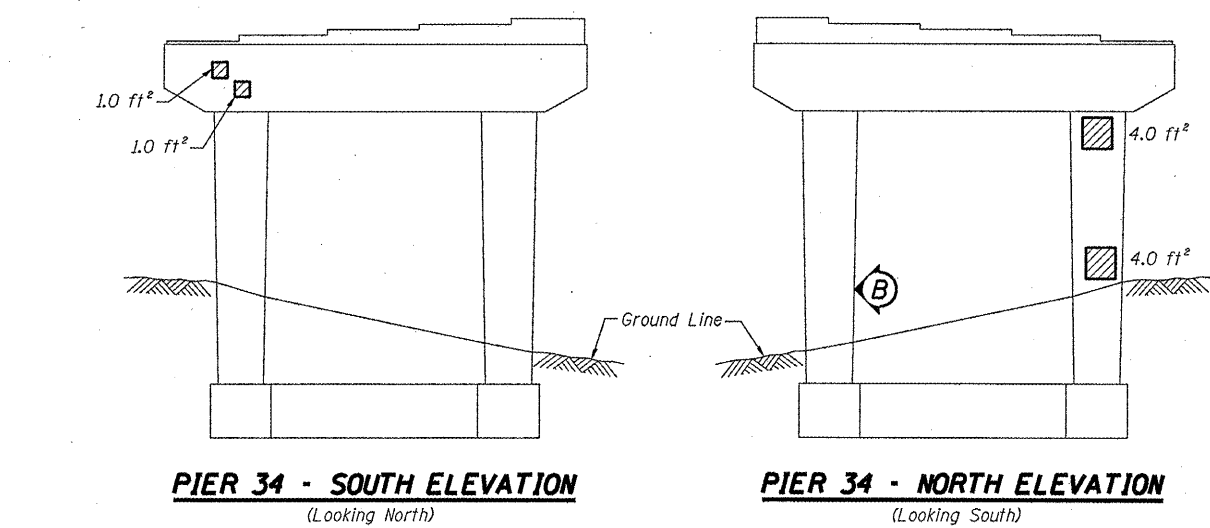
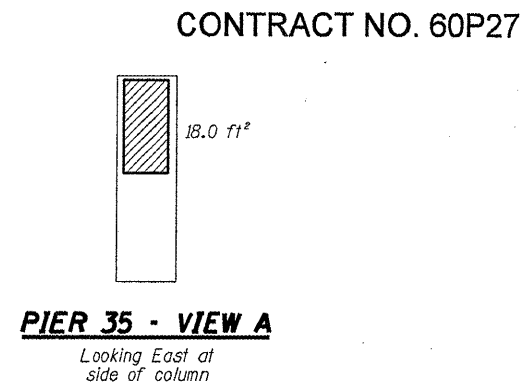
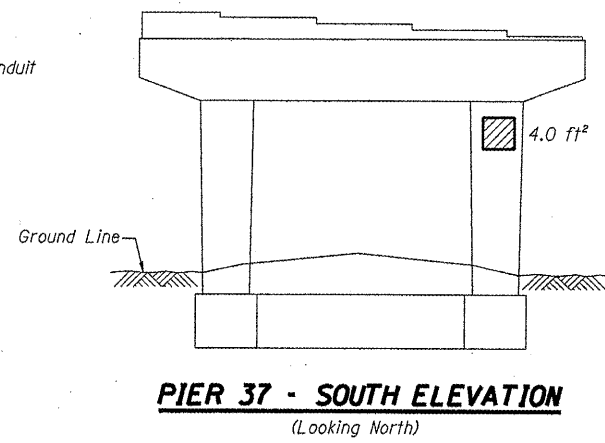
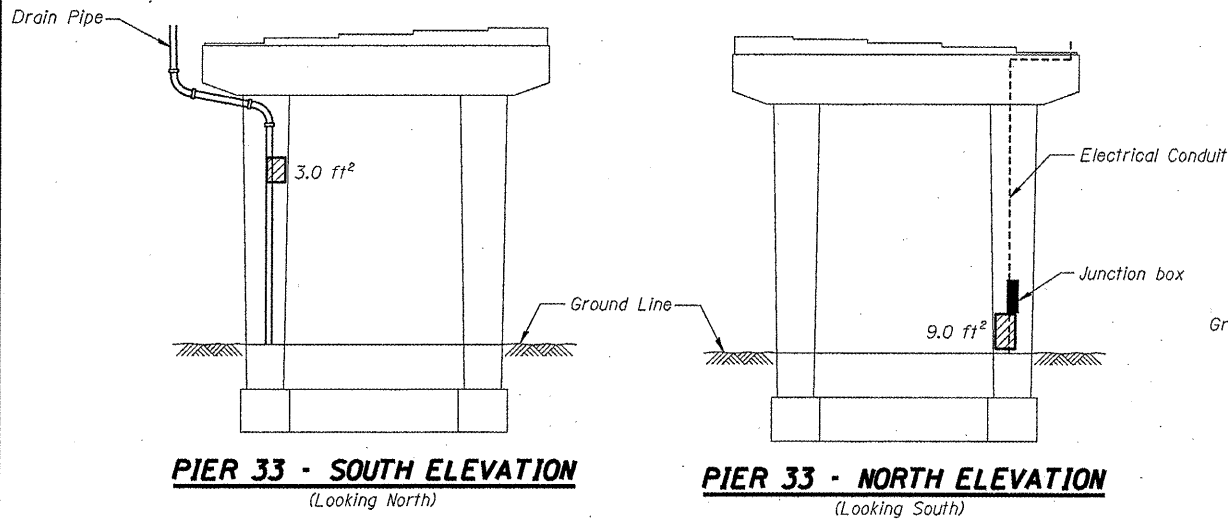
 - Structural Repair of Concrete (Depth equal to or less than 5")

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 119.0    |

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1050  
PIER 87 & ABUT 87

|                    |                       |                |                       |                       |
|--------------------|-----------------------|----------------|-----------------------|-----------------------|
| ROUTE<br>FAI 90/94 | SECTION<br>2011-027-I | COUNTY<br>COOK | TOTAL<br>SHEETS<br>87 | SHEET<br>NUMBER<br>70 |
|--------------------|-----------------------|----------------|-----------------------|-----------------------|



**BILL OF MATERIAL**

| ITEM                                                           | UNIT    | QUANTITY |
|----------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete (Depth equal to or less than 5") | SQ. FT. | 94.0     |

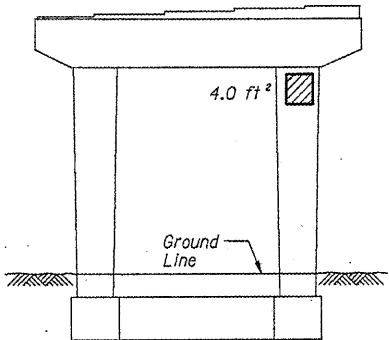
▨ - Structural Repair of Concrete (Depth equal to or less than 5")

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

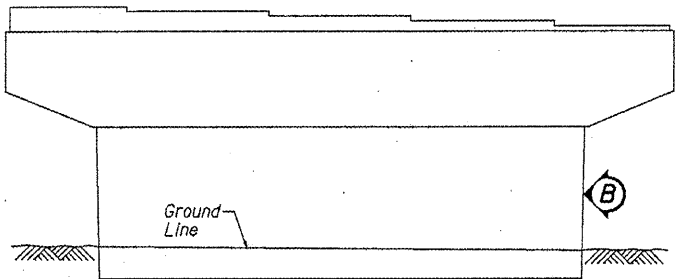
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1059  
PIERS 33 - 37, & 40

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 71           |

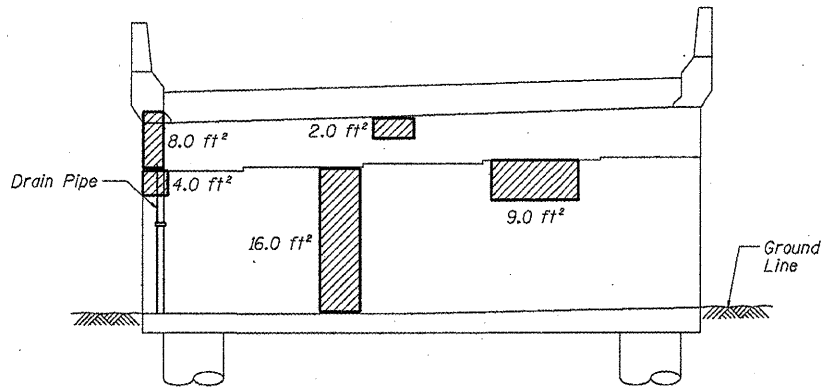
CONTRACT NO. 60P27



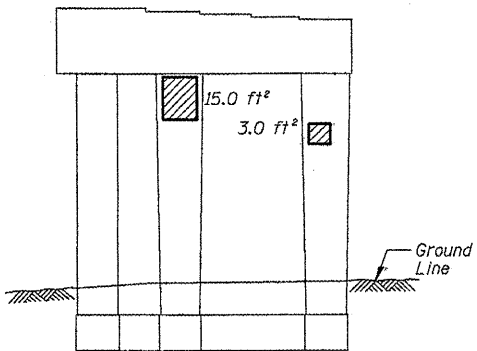
**PIER 25 - NORTH ELEVATION**  
(Looking South)



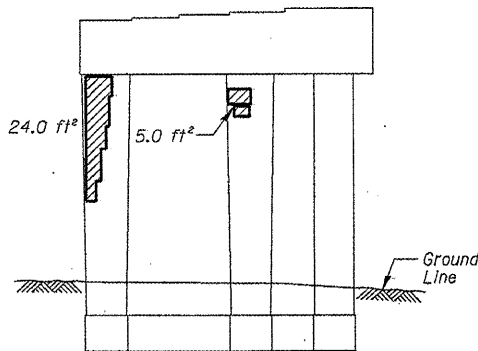
**PIER 29 - SOUTH ELEVATION**  
(Looking North)



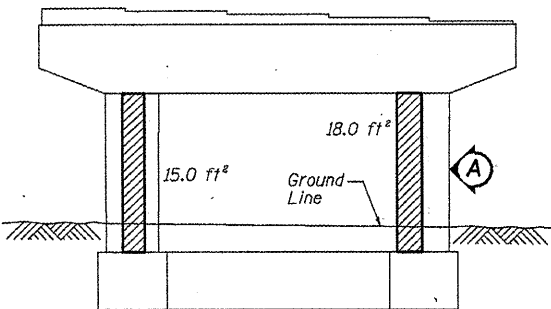
**ABUTMENT 30 - NORTH ELEVATION**  
(Looking South)



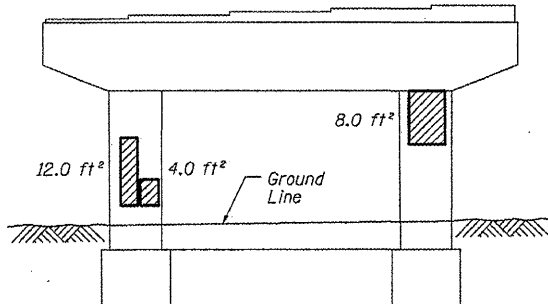
**PIER 23 - SOUTH ELEVATION**  
(Looking North)



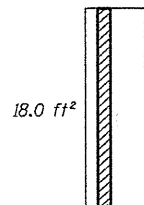
**PIER 23 - NORTH ELEVATION**  
(Looking South)



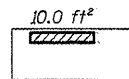
**PIER 28 - SOUTH ELEVATION**  
(Looking North)



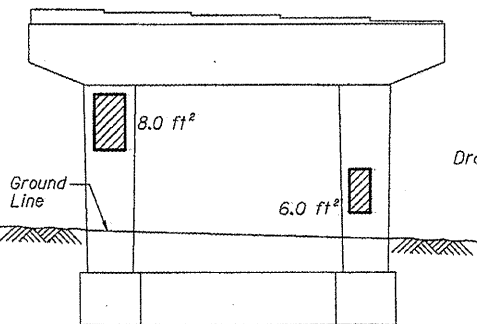
**PIER 28 - NORTH ELEVATION**  
(Looking South)



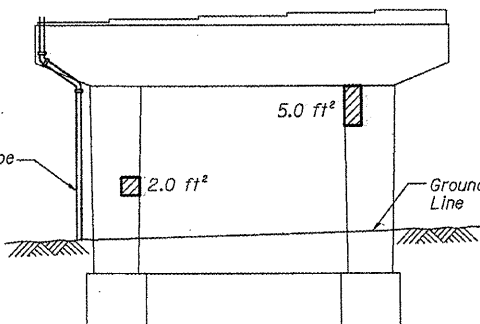
**PIER 28 - VIEW A**  
Looking West at  
side of column



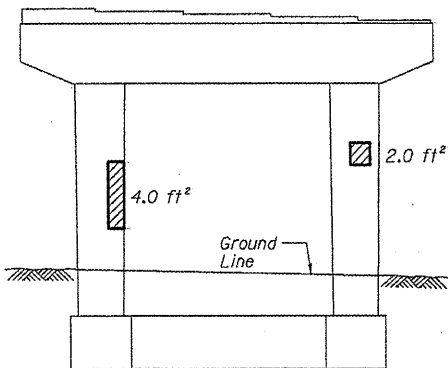
**PIER 29 - VIEW B**  
Looking West at  
side of pier



**PIER 27 - SOUTH ELEVATION**  
(Looking North)

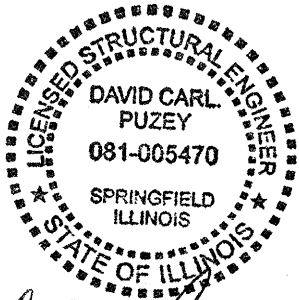


**PIER 27 - NORTH ELEVATION**  
(Looking South)



**PIER 26 - SOUTH ELEVATION**  
(Looking North)

▨ - Structural Repair of Concrete (Depth equal to or less than 5")



*David Carl Puze* 5/13/11  
Expires 11/30/2012

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 202.0    |

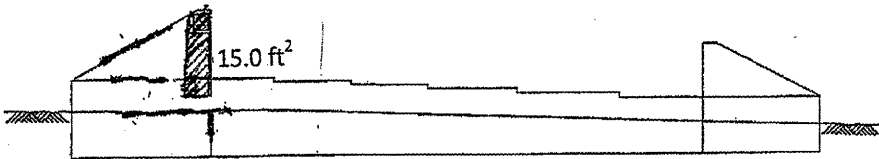
**ILLINOIS DEPARTMENT OF  
TRANSPORTATION**

I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1047  
PIERS 23, 25 - 29, & ABUT 30

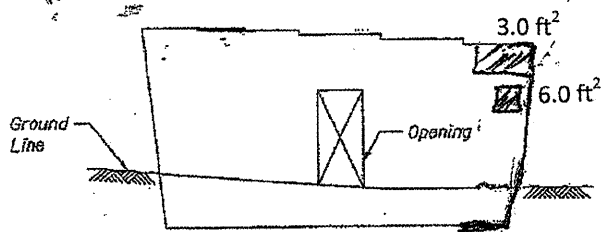


| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 72           |

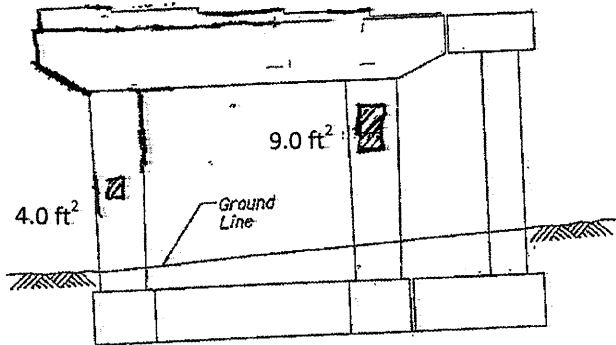
CONTRACT NO. 60P27



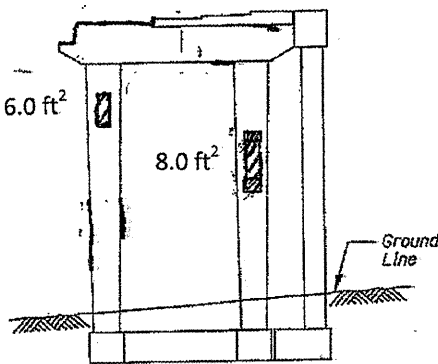
**ABUTMENT 73 - EAST ELEVATION**  
(Looking West)



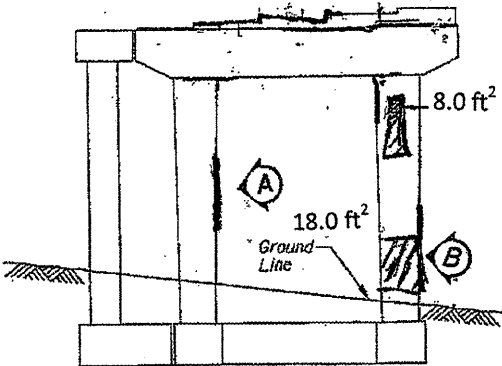
**PIER 71 - EAST ELEVATION**  
(Looking West)



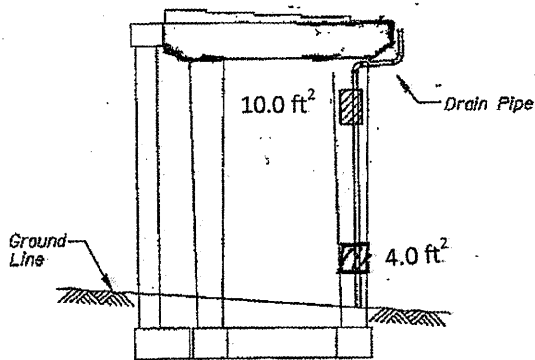
**PIER 70 - WEST ELEVATION**  
(Looking East)



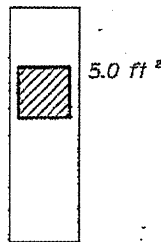
**PIER 67 - WEST ELEVATION**  
(Looking East)



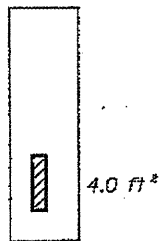
**PIER 69 - EAST ELEVATION**  
(Looking West)



**PIER 67 - EAST ELEVATION**  
(Looking West)



**PIER 69 - VIEW A**  
Looking South at  
side of column



**PIER 69 - VIEW B**  
Looking South at  
side of column

▨ - Structural Repair of Concrete (Depth equal to or less than 5")

**BILL OF MATERIAL**

| ITEM                                                              | UNIT    | QUANTITY |
|-------------------------------------------------------------------|---------|----------|
| Structural Repair of Concrete<br>(Depth equal to or less than 5") | SQ. FT. | 82.0     |



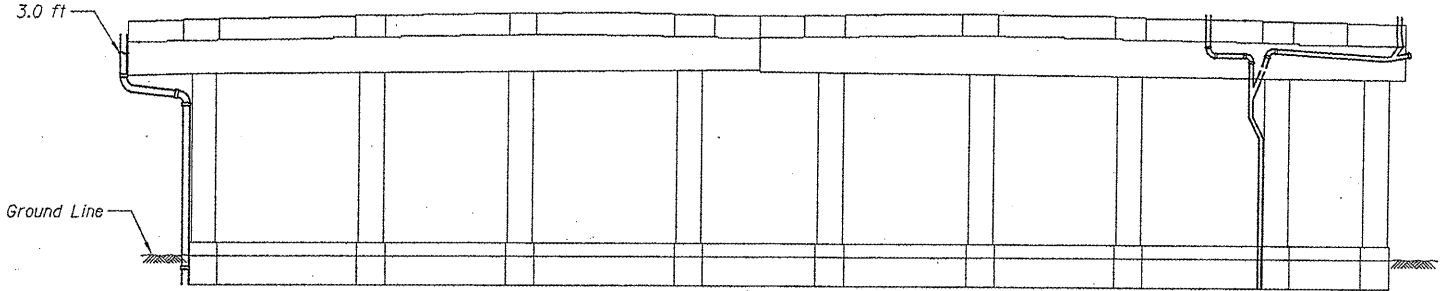
*David Carl Puzey* 5/13/11  
Expires 11/30/2012

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

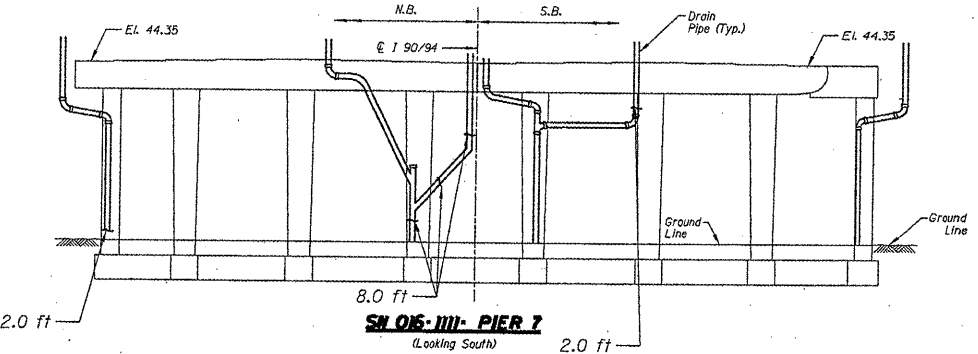
I-90/94 (DAN RYAN EXPRESSWAY)  
SUBSTRUCTURE REPAIRS  
SN 016-1062  
PIERS 67, 69, 70, 71, & ABUT 73

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-1 | COOK   | 87           | 73           |

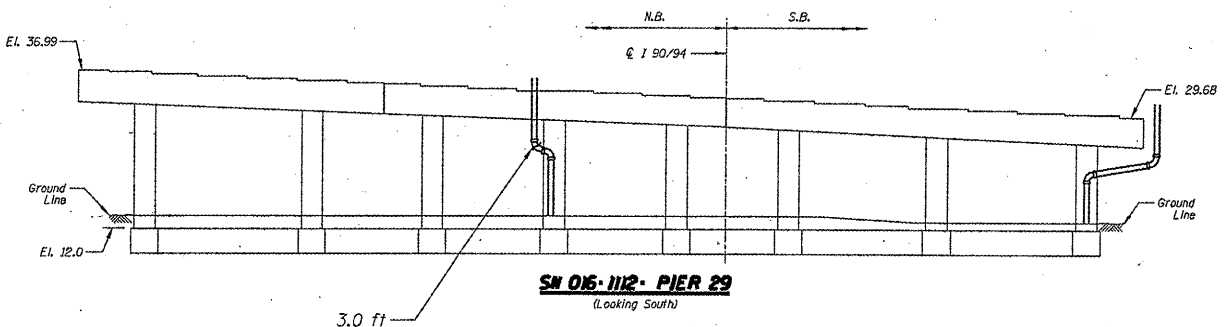
CONTRACT NO. 60P27



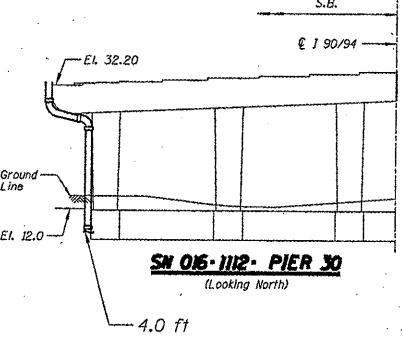
**SN 016-1110- PIER 4**  
(Looking South)



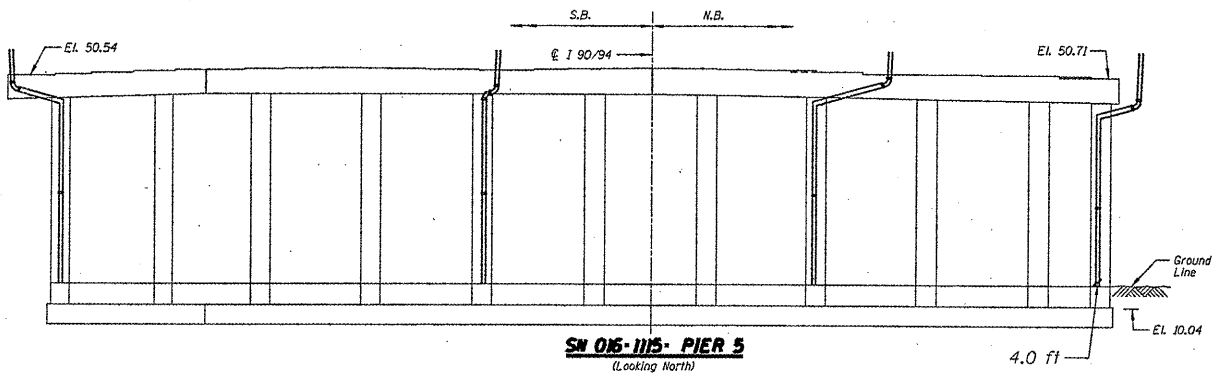
**SN 016-1111- PIER 7**  
(Looking South)



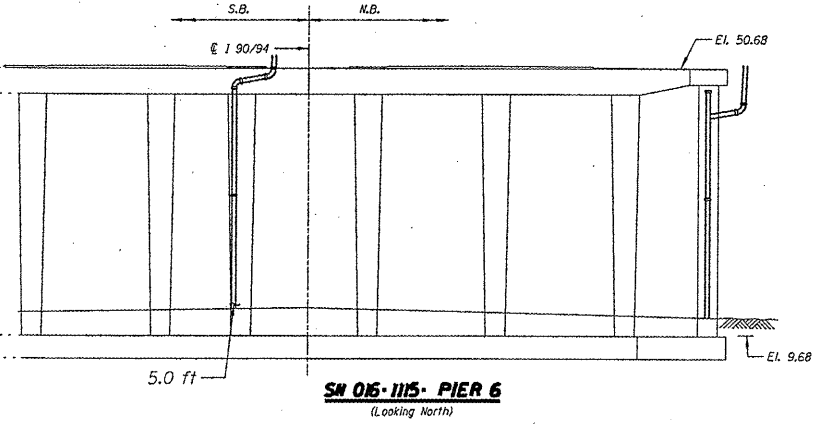
**SN 016-1112- PIER 29**  
(Looking South)



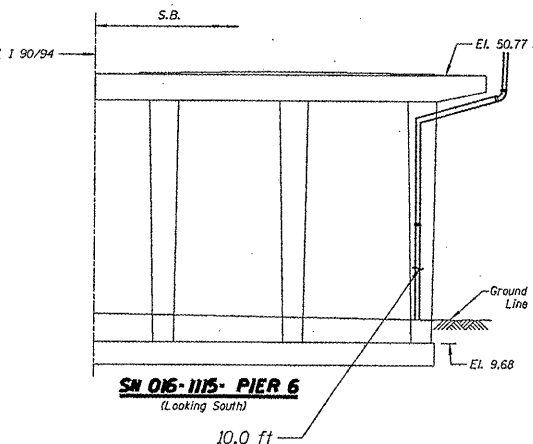
**SN 016-1112- PIER 30**  
(Looking North)



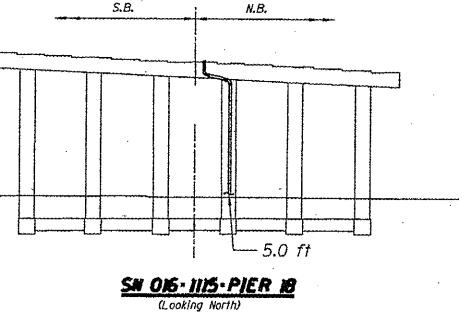
**SN 016-1115- PIER 5**  
(Looking North)



**SN 016-1115- PIER 6**  
(Looking North)



**SN 016-1115- PIER 6**  
(Looking South)



**SN 016-1115- PIER 18**  
(Looking North)

**BILL OF MATERIAL**

| ITEM DESCRIPTION               | UNIT | QUANTITY |
|--------------------------------|------|----------|
| Bridge Drainage System Repairs | FT   | 63.0     |

**DRAINAGE REPAIR NOTES**

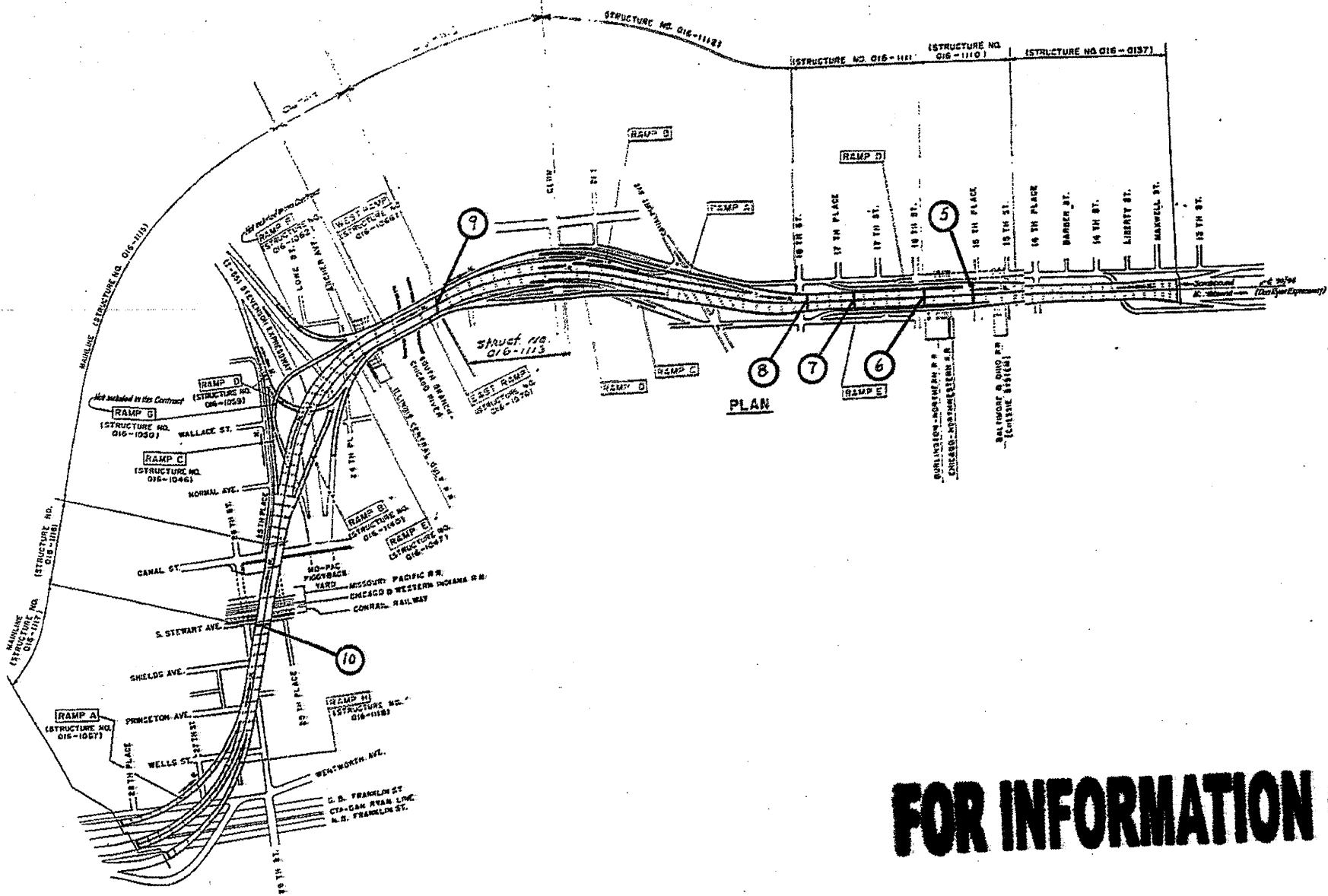
1. In addition to the repairs shown schematically, 5.0 ft and 6.0 ft of drainage system repairs will be done on East Column of Pier 8 and East Column of Pier 14 for SN 016-1115 respectively. 3.0 ft of drainage system repair will also be done for Pier 3 at the North End of SN 016-1116. Pipe is disconnected at ground level.
2. The locations shown as requiring drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractors responsibility to verify the locations, dimensions and details prior to ordering the material. Such variations shall not be cause for additional compensation for a change in the scope of work, however the contractor will be paid for the Quantity actually furnished at the unit price bid for the work.
3. The Contractor shall provide all piping, brackets, hangers, fittings, hardware and other accessories required to return the existing drainage system to a fully functional leak free system. See Special Provisions.
4. When existing drain pipes are wrapped with tape, the tape shall be removed if pipe is broken or missing connection. The pipe shall be replaced or otherwise new tape shall be provided. The type of the tape shall be approved by the Engineer. The cost shall be included in "Bridge Drainage System Repairs" and the length measured shall be length the of pipe replaced or the length of pipe re-taped.
5. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
6. For pier locations see General Plan & Elevation Sheets.

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION**

**I-90/94 (DAN RYAN EXPRESSWAY)  
DRAINAGE SYSTEM REPAIRS  
SN 016-1110, 016-1111, 016-1112,  
016-1115, & 016-1116**

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 74           |

CONTRACT NO. 60P27



KEY LOCATIONS

- ⑤ BR. NO. 016-1110, PIER 1
- ⑥ BR. NO. 016-1110, PIER 4
- ⑦ BR. NO. 016-1111, PIER 7
- ⑧ BR. NO. 016-1111, PIER 2
- ⑨ BR. NO. 016-1113, PIER 1
- ⑩ BR. NO. 016-1116, PIER 26

| S.B. LANE | N.B. LANES |
|-----------|------------|
| SOUTH     | NORTH      |
| SOUTH     | NORTH      |
| SOUTH     | NORTH      |
| SOUTH     | NORTH      |
| NORTH     | NORTH      |
| SOUTH     | NORTH      |

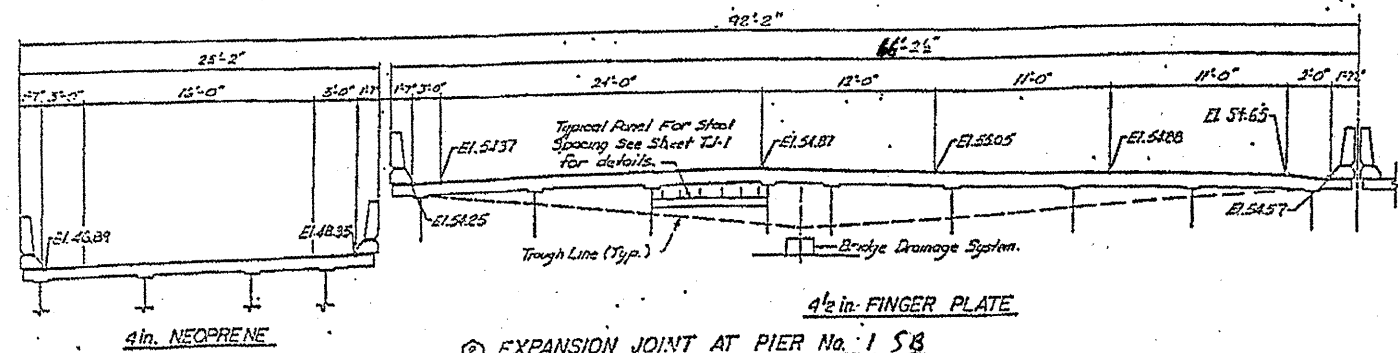
**FOR INFORMATION ONLY**

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

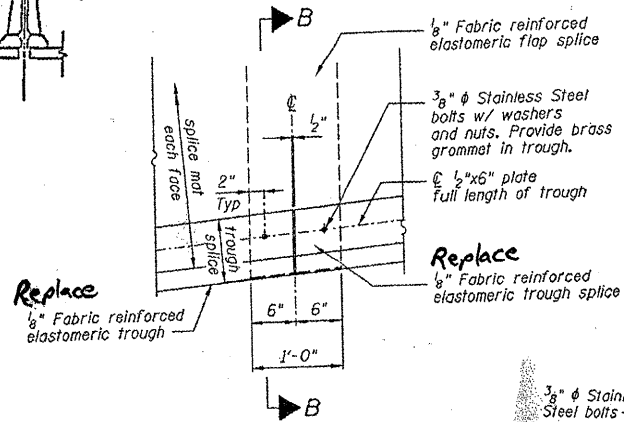
I-90/94 (DAN RYAN EXPRESSWAY)  
DRAINAGE SYSTEM REPAIRS  
KEY LOCATIONS

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 75           |

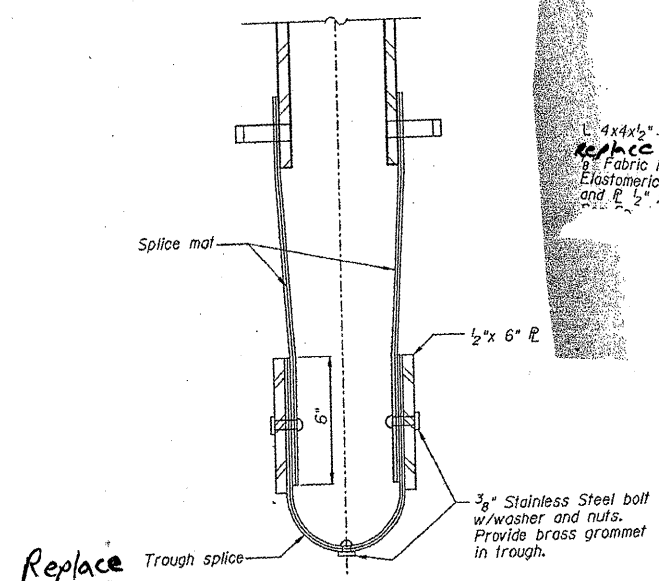
CONTRACT NO. 60P27



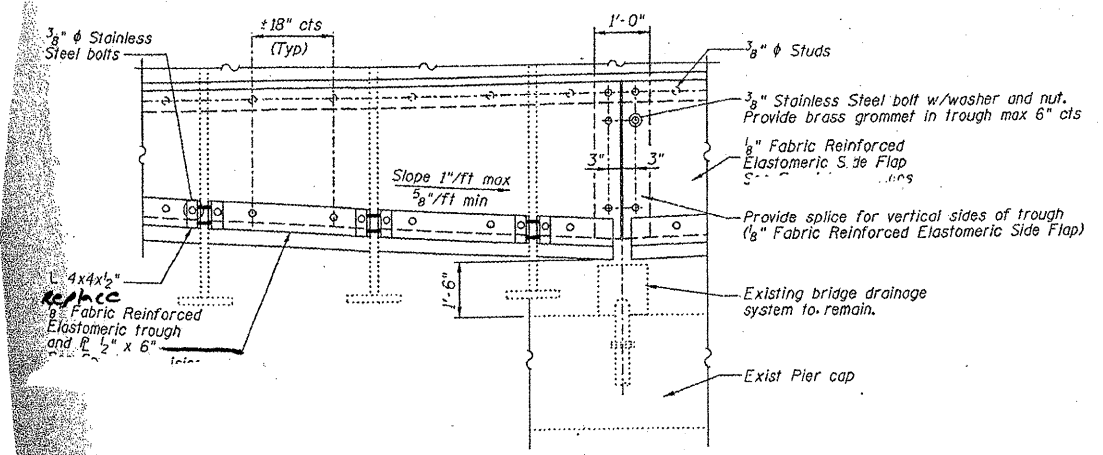
EXPANSION JOINT AT PIER No. 1 SB  
LOCATION 016-1110



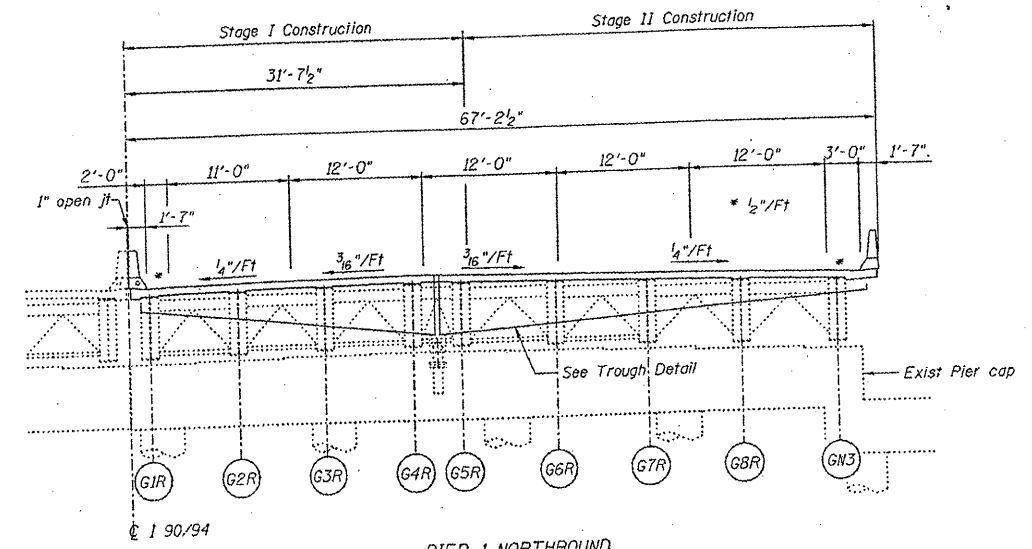
TROUGH SPLICE DETAIL



SECTION B-B



TROUGH DETAIL



PIER 1 NORTHBOUND  
ELEVATION AT PIER 1 (LOOKING NORTH)

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
DRAINAGE SYSTEM REPAIRS  
SN 016-1110  
PIER 1 NB & SB  
SHEET 1 OF 2

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 76           |

CONTRACT NO. 60P27

BILL OF MATERIAL

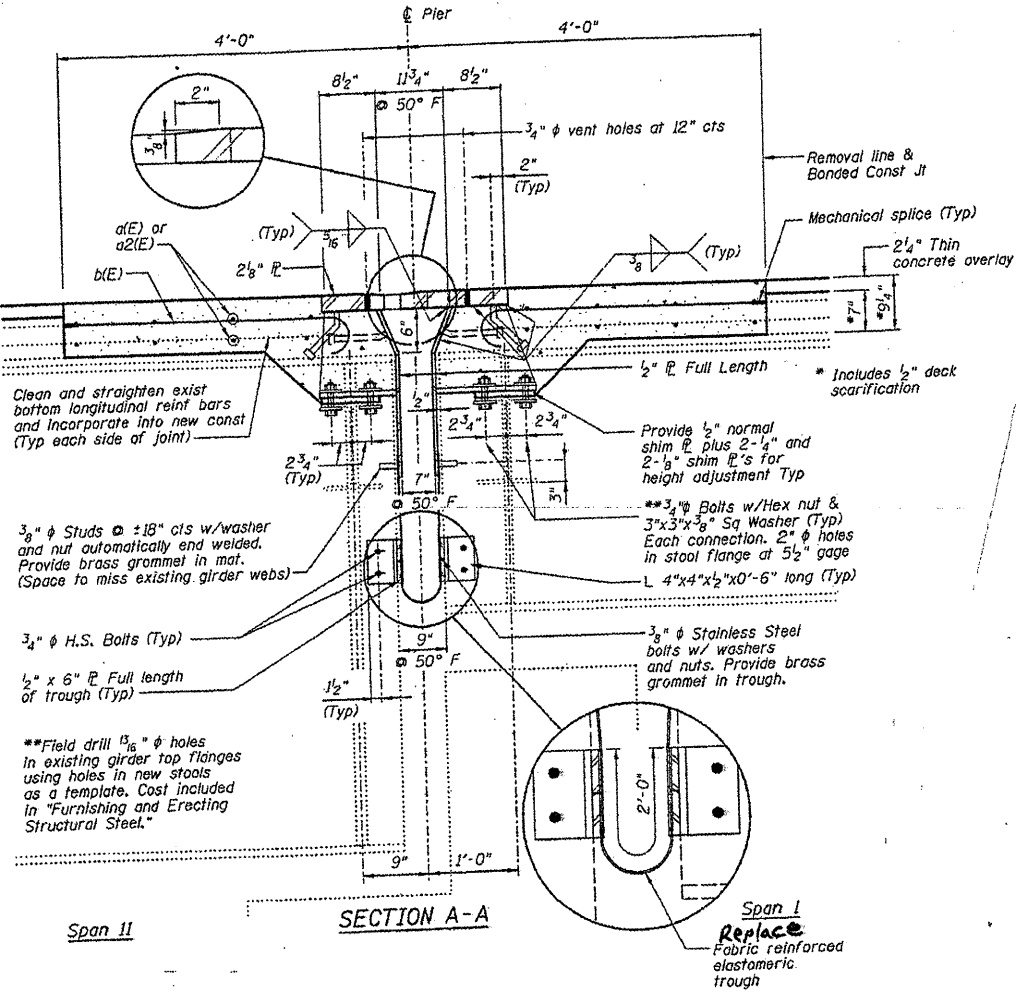
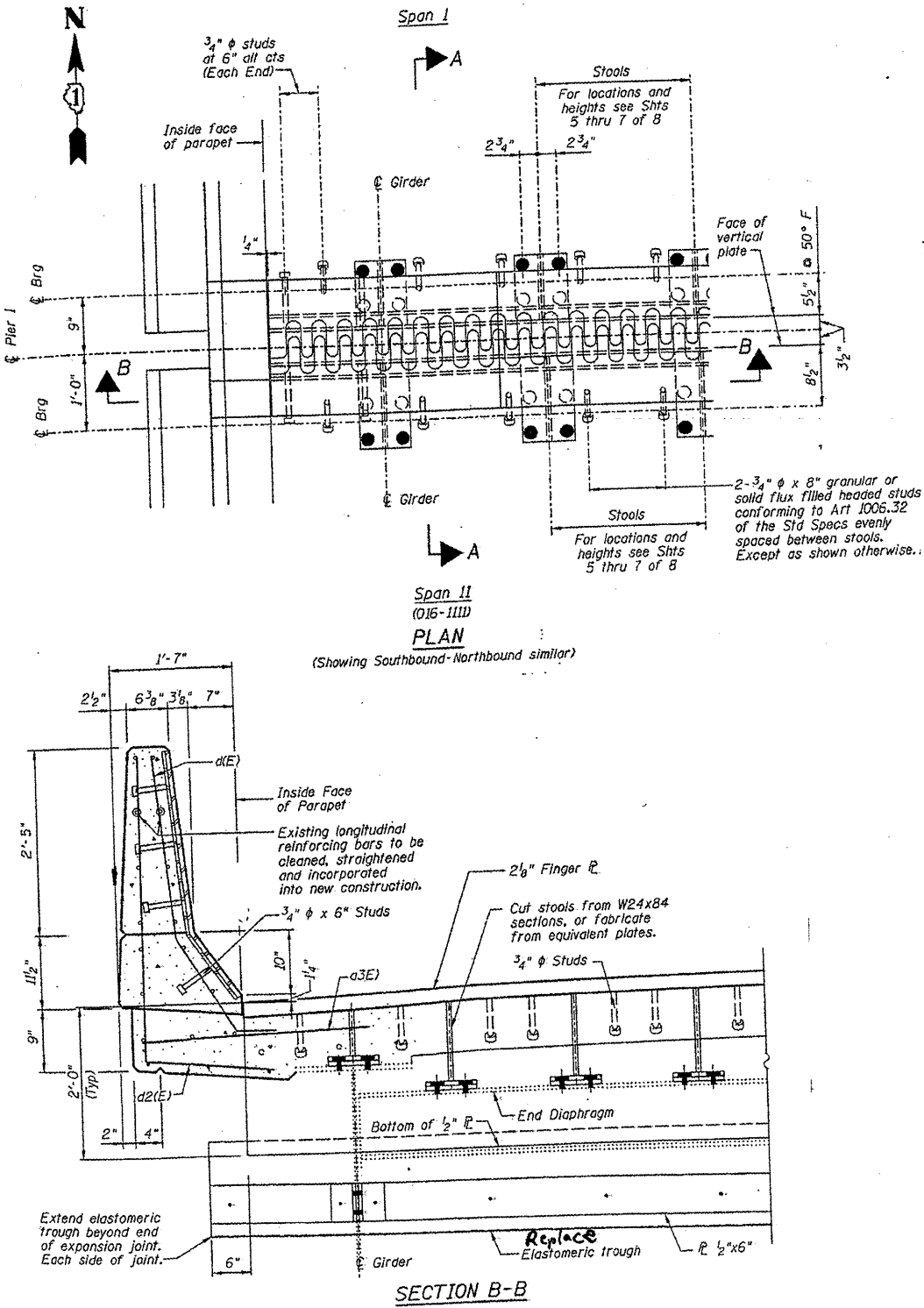
| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| Bridge Drainage System Repairs | FT.  | 135.0    |

DRAINAGE REPAIR NOTES

- The Contractor shall replace the Fabric Reinforced Elastomeric Trough, splices, & stainless steel bolts with washers & nuts as detailed & according to 520 of the Standard Specifications. The length of neoprene trough required is included in the quantity for "Bridge Drainage System Repairs". Removal of existing finger plate trough & any debris is included in the cost of "Bridge Drainage System Repairs".

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

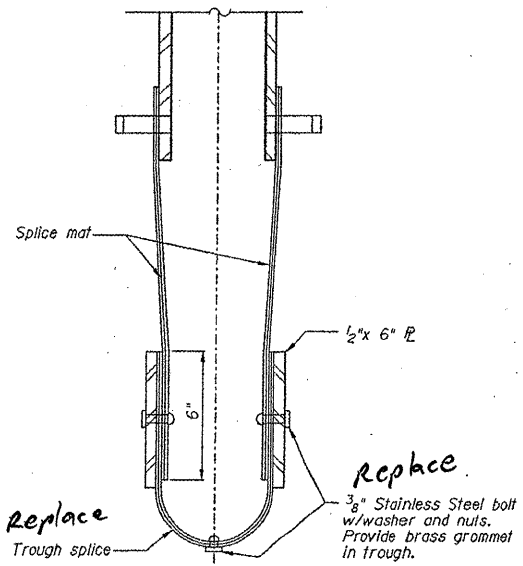
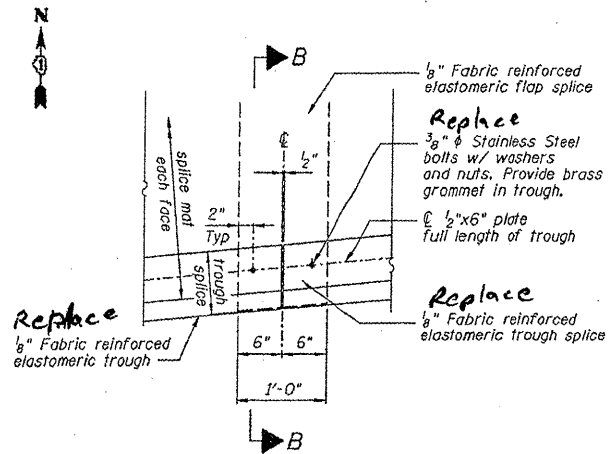
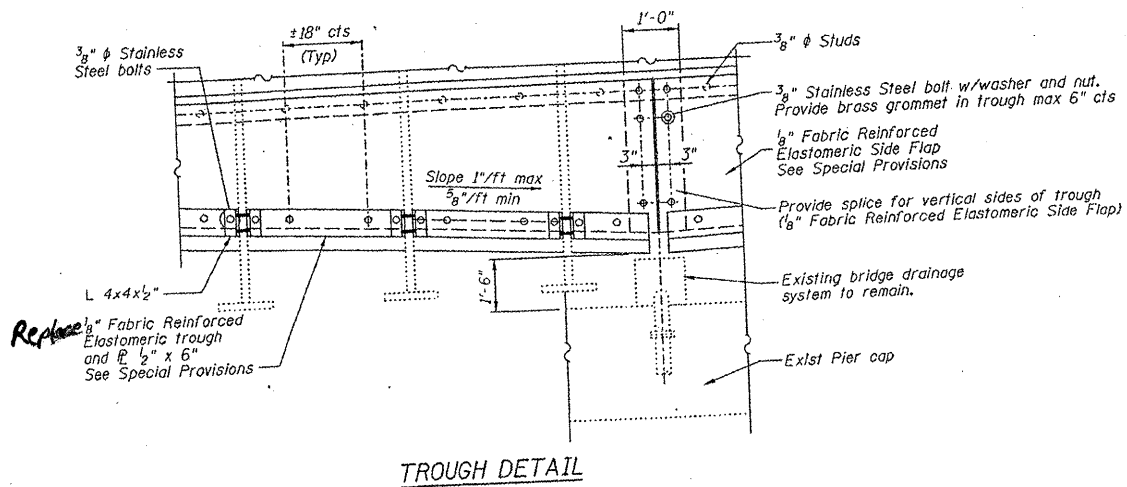
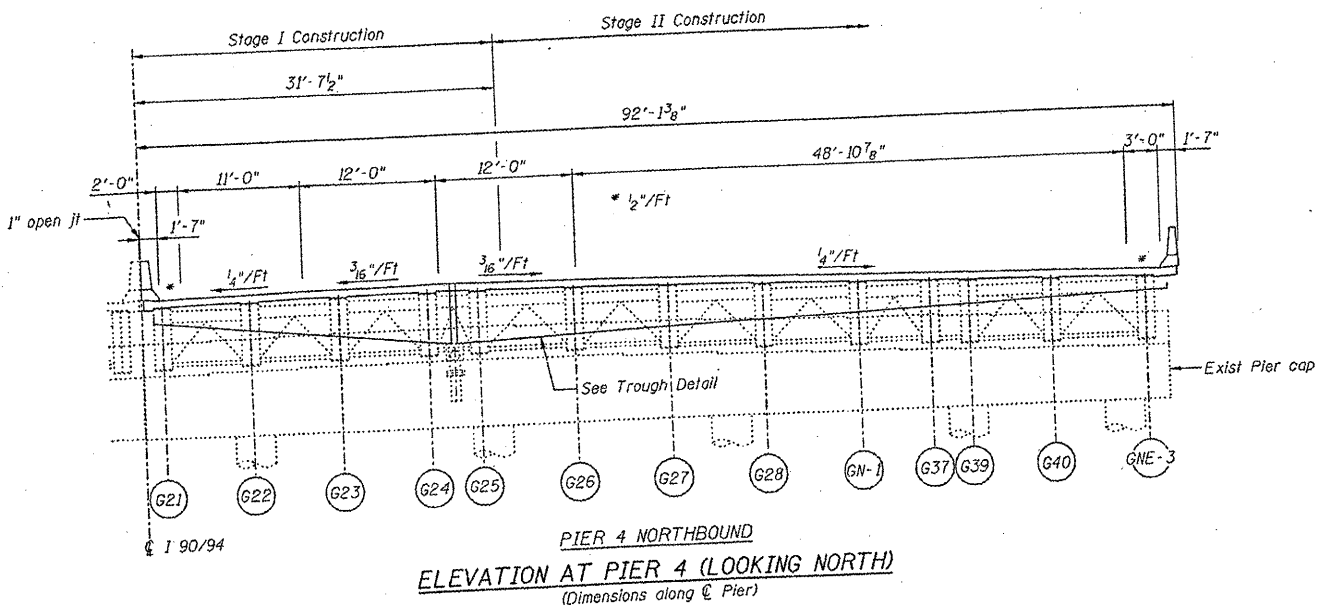
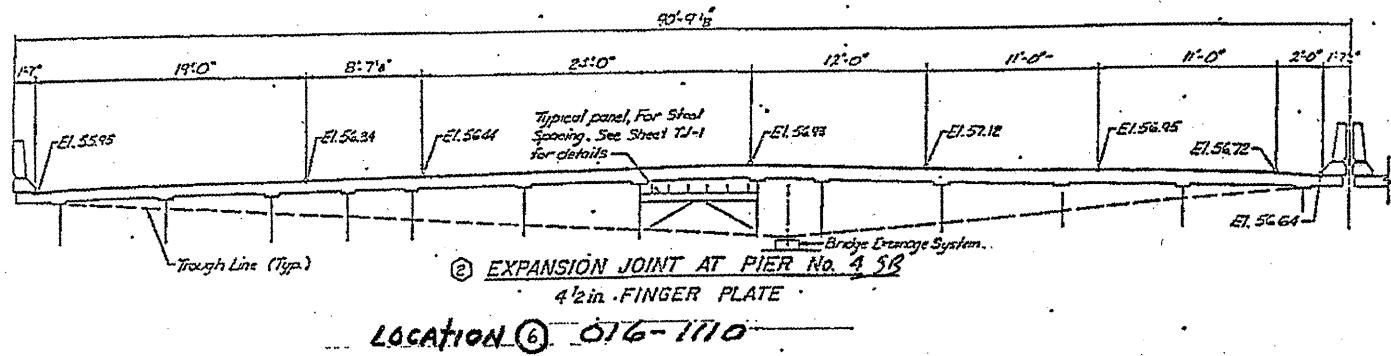
I-90/94 (DAN RYAN EXPRESSWAY)  
DRAINAGE SYSTEM REPAIRS  
SN 016-1110  
PIER 1 NB & SB  
SHEET 2 OF 2





| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 77           |

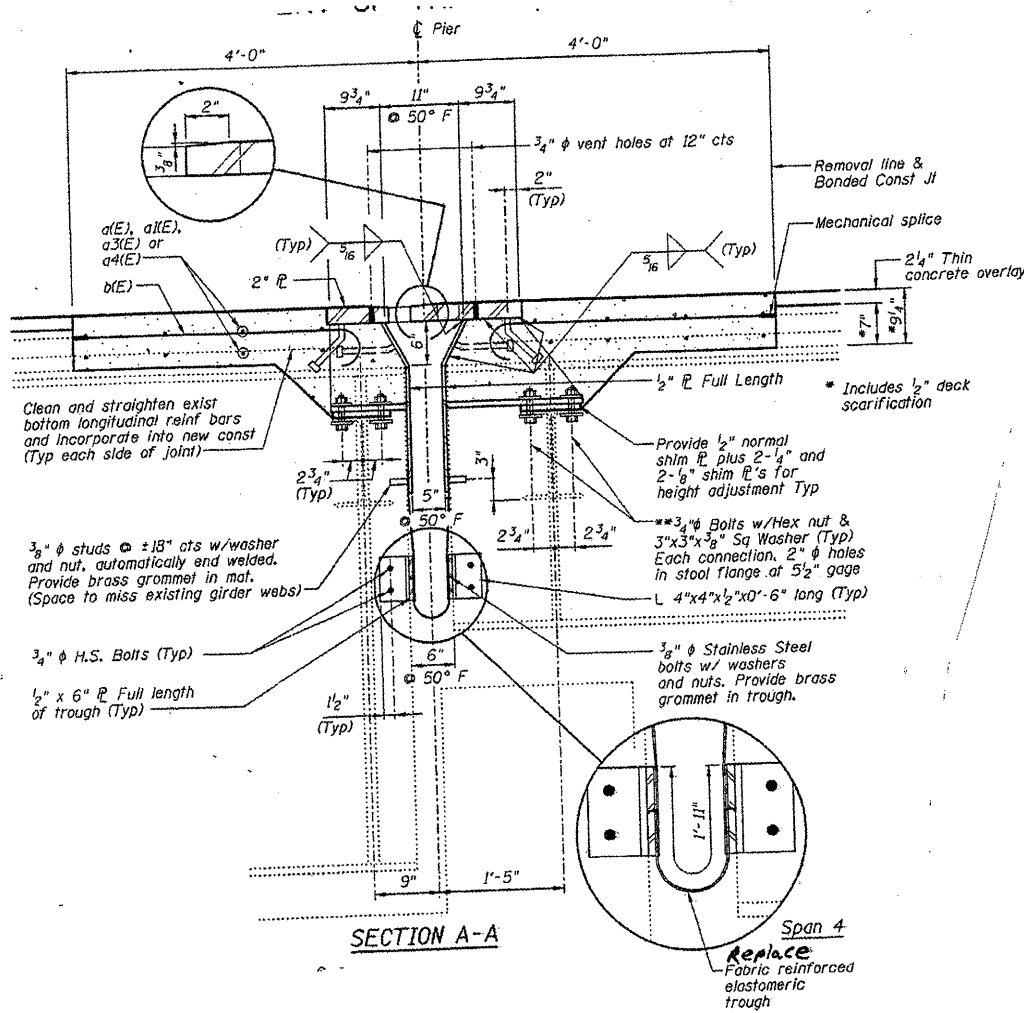
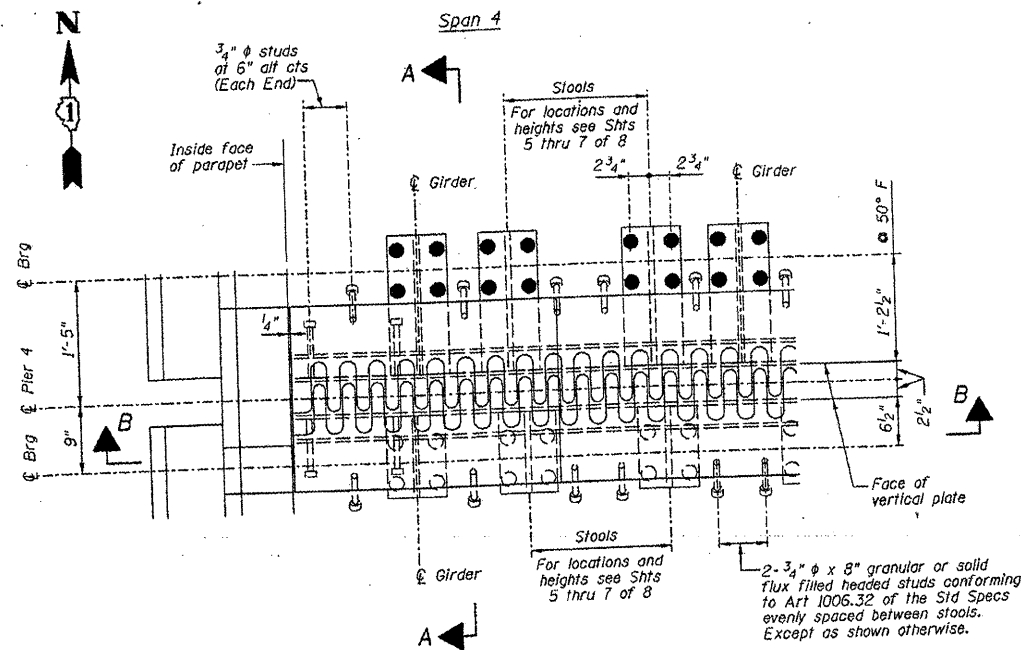
CONTRACT NO. 60P27



ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-90/94 (DAN RYAN EXPRESSWAY)  
DRAINAGE SYSTEM REPAIRS  
SN 016-1110  
PIER 4 NB & SB  
SHEET 1 OF 2

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 78           |

CONTRACT NO. 60P27



**BILL OF MATERIAL**

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| Bridge Drainage System Repairs | FT.  | 184.0    |

**DRAINAGE REPAIR NOTES**

1. The Contractor shall replace the Fabric Reinforced Elastomeric Trough, splices, & stainless steel bolts with washers & nuts as detailed & according to 520 of the Standard Specifications. The length of neoprene trough required is included in the quantity for "Bridge Drainage System Repairs". Removal of existing finger plate trough & any debris is included in the cost of "Bridge Drainage System Repairs".

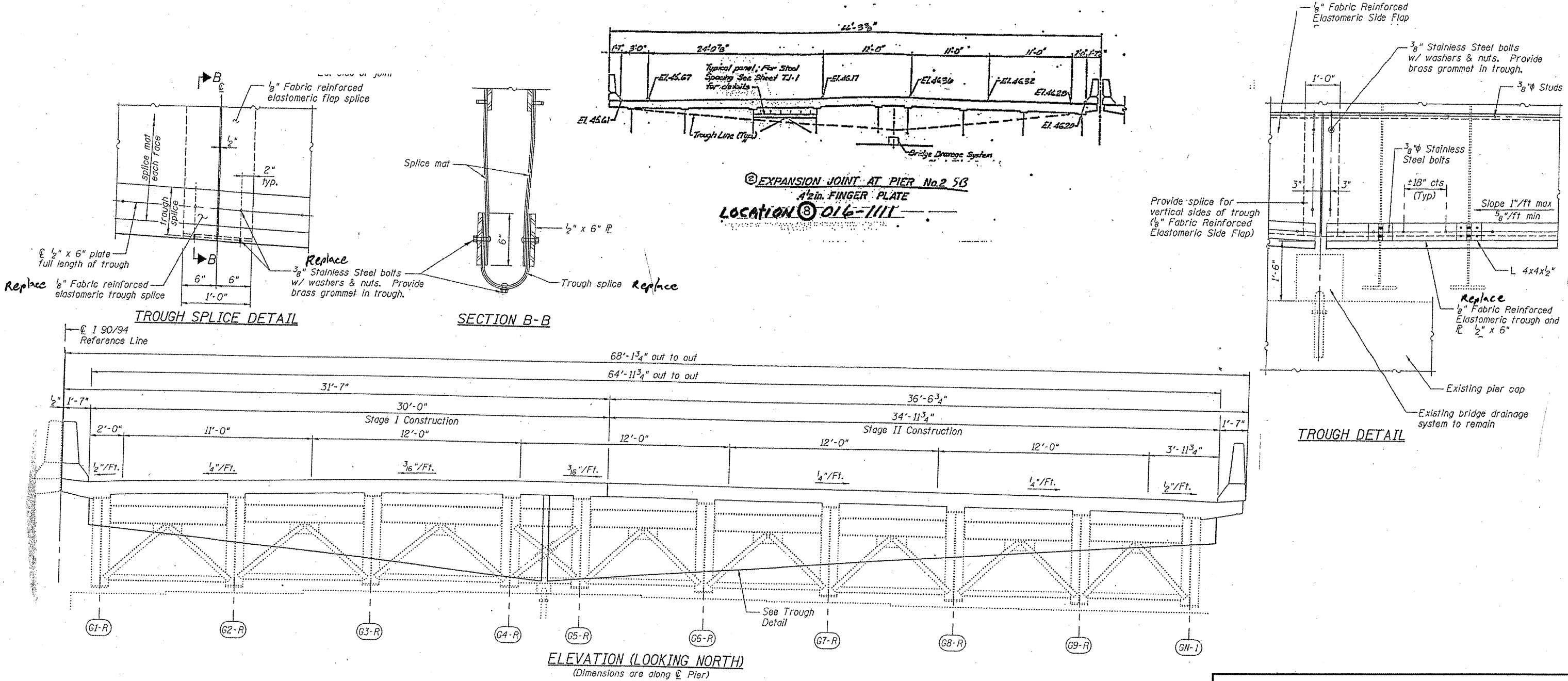
**ILLINOIS DEPARTMENT OF  
TRANSPORTATION**

**I-90/94 (DAN RYAN EXPRESSWAY)  
DRAINAGE SYSTEM REPAIRS  
SN 016-1110  
PIER 4 NB & SB  
SHEET 2 OF 2**



| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-1 | COOK   | 87           | 79           |

CONTRACT NO. 60P27



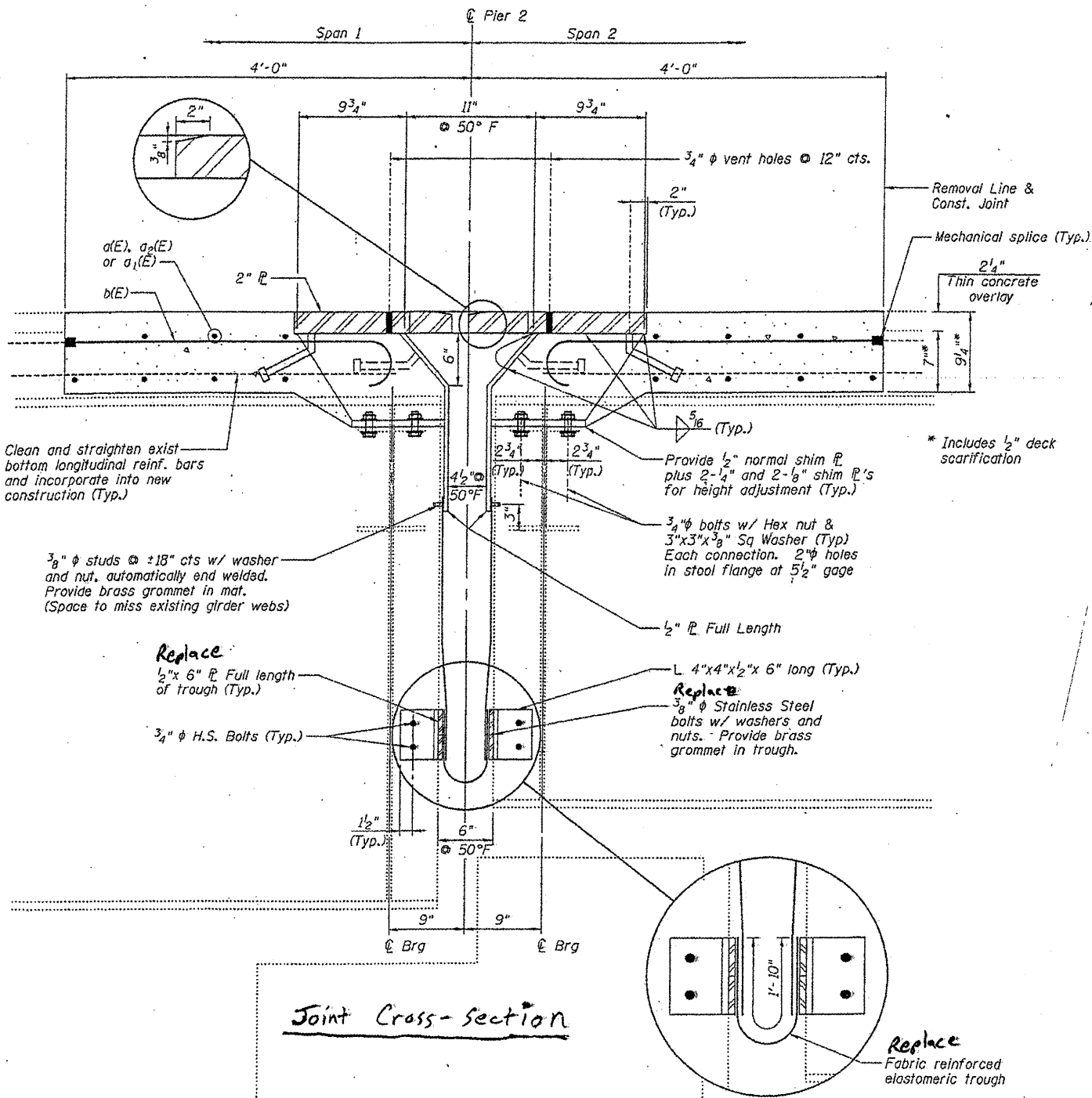
ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
DRAINAGE SYSTEM REPAIRS  
SN 016-1111  
PIER 2 NB & SB  
SHEET 1 OF 2



| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 80           |

CONTRACT NO. 60P27



**BILL OF MATERIAL**

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| Bridge Drainage System Repairs | FT.  | 136.0    |

**DRAINAGE REPAIR NOTES**

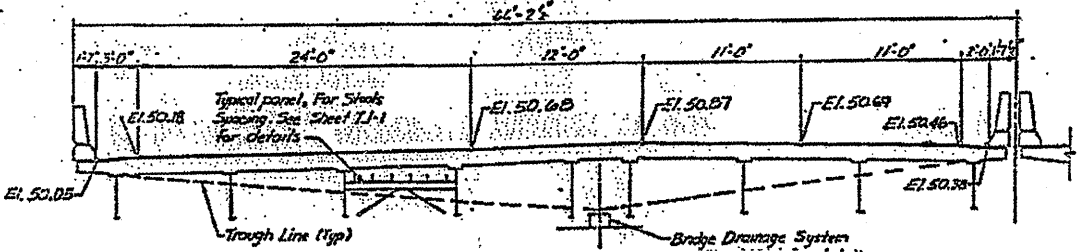
1. The Contractor shall replace the Fabric Reinforced Elastomeric Trough, splices, & stainless steel bolts with washers & nuts as detailed & according to 520 of the Standard Specifications. The length of neoprene trough required is included in the quantity for "Bridge Drainage System Repairs". Removal of existing finger plate trough & any debris is included in the cost of "Bridge Drainage System Repairs".

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
DRAINAGE SYSTEM REPAIRS  
SN 016-1111  
PIER 2 NB & SB  
SHEET 2 OF 2

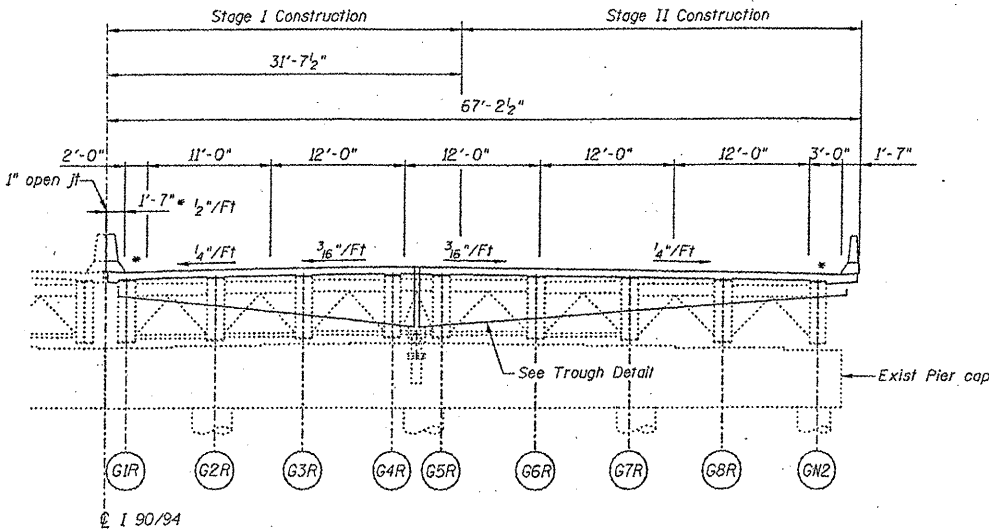
| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-1 | COOK   | 87           | 81           |

CONTRACT NO. 60P27

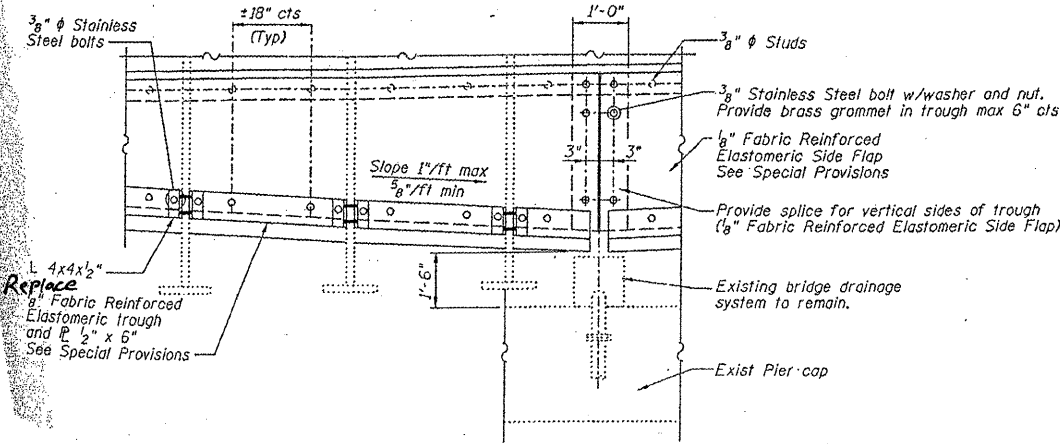


EXPANSION JOINT AT PIER No. 7 SB  
4 1/2 in. FINGER PLATE

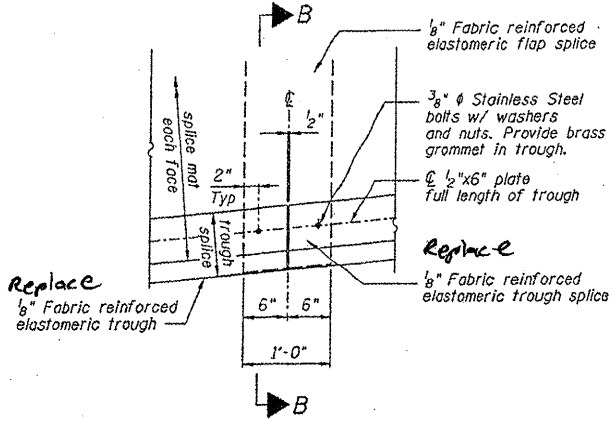
LOCATION 016-1111



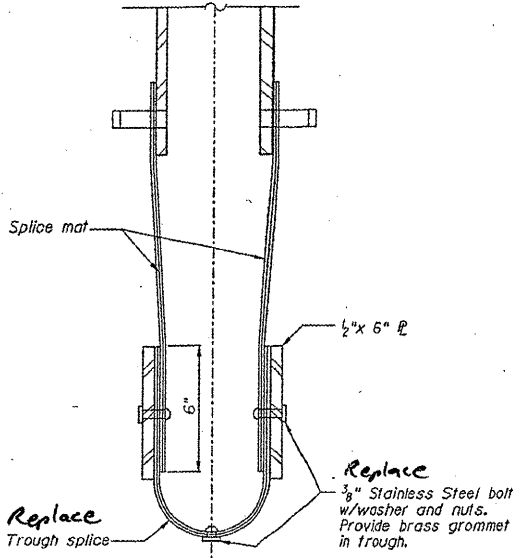
PIER 7 NORTHBOUND  
ELEVATION AT PIER 7 (LOOKING NORTH)



TROUGH DETAIL



TROUGH SPLICE DETAIL



SECTION B-B

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

I-90/94 (DAN RYAN EXPRESSWAY)  
DRAINAGE SYSTEM REPAIRS

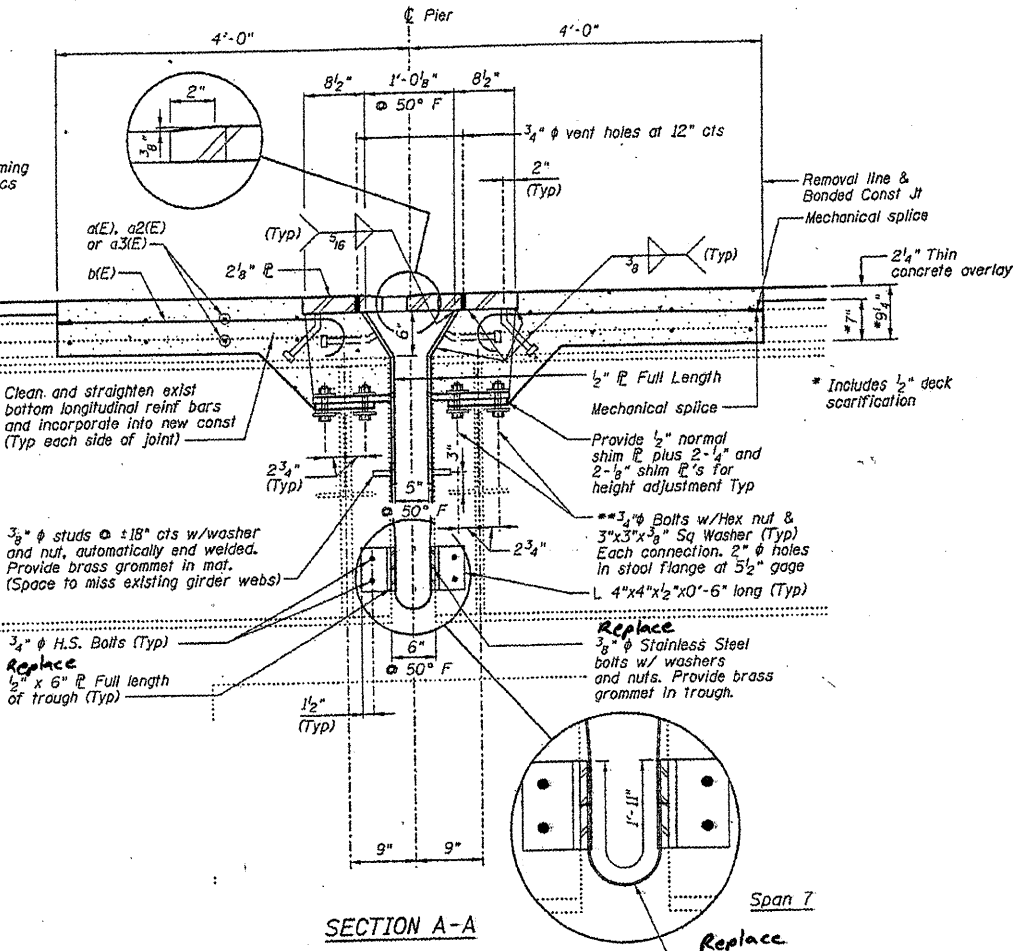
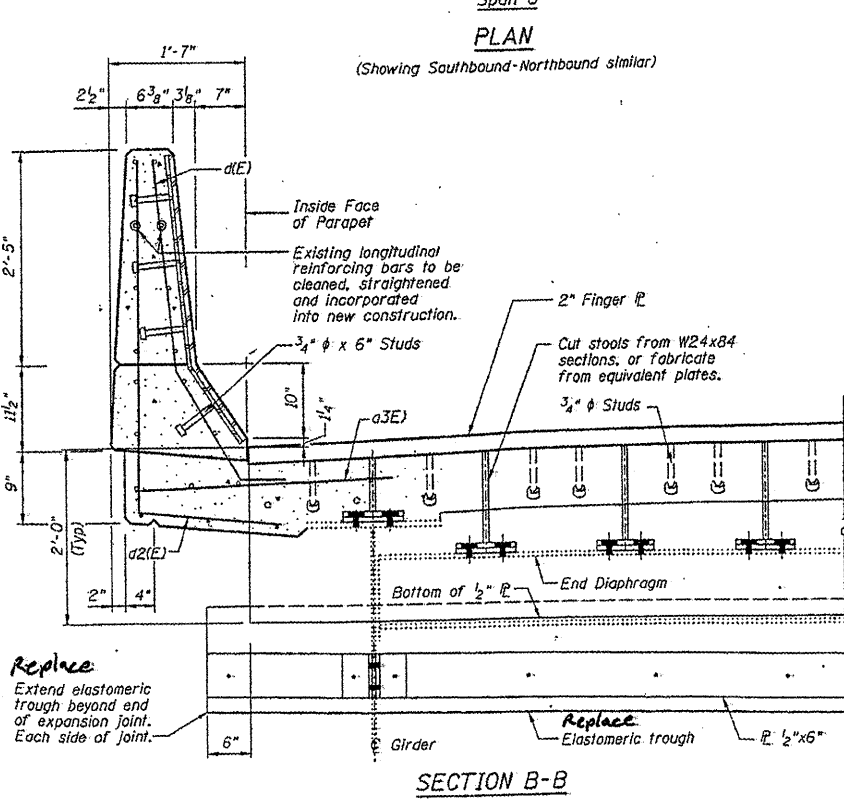
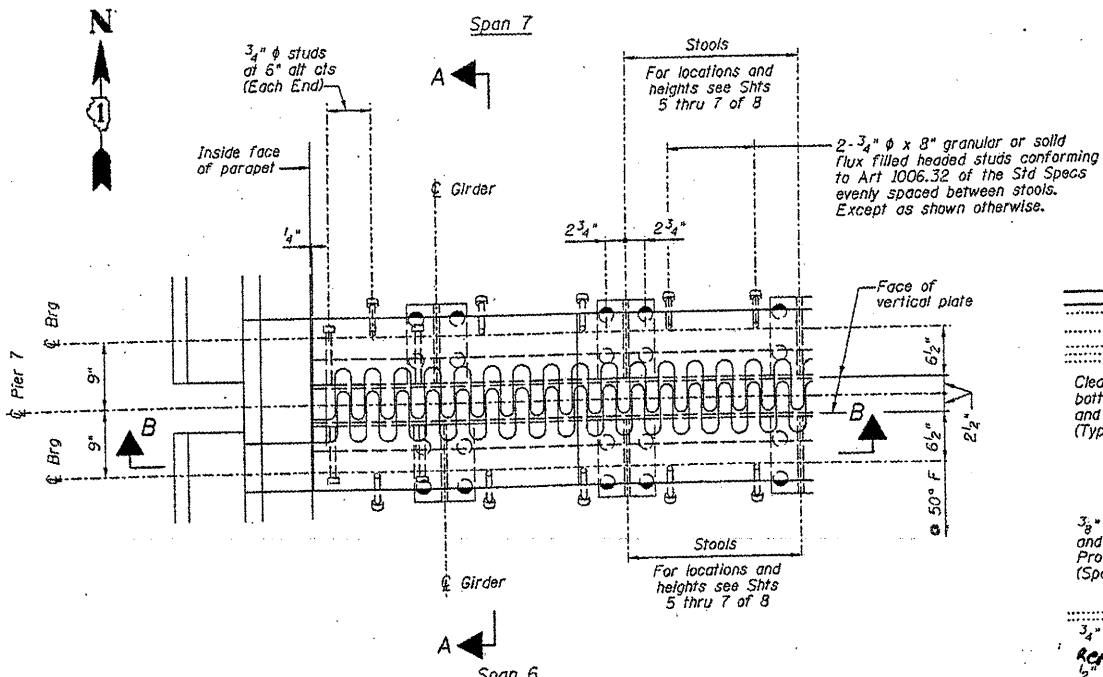
SN 016-1111

PIER 7 NB & SB

SHEET 1 OF 2

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 82           |

CONTRACT NO. 60P27



**BILL OF MATERIAL**

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| Bridge Drainage System Repairs | FT.  | 135.0    |

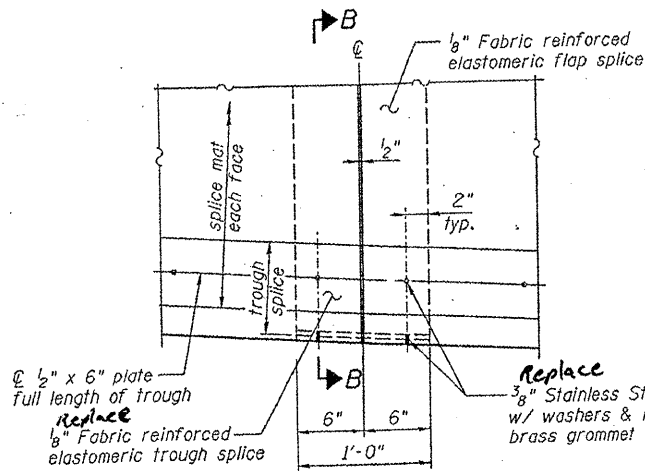
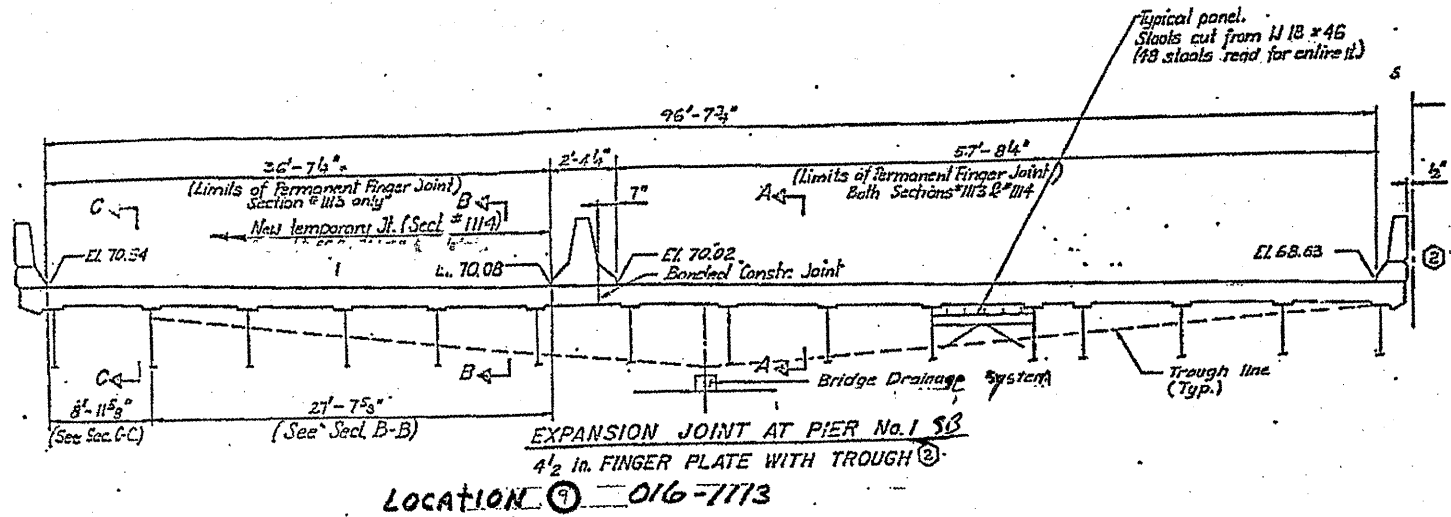
**DRAINAGE REPAIR NOTES**

1. The Contractor shall replace the Fabric Reinforced Elastomeric Trough, splices, & stainless steel bolts with washers & nuts as detailed & according to 520 of the Standard Specifications. The length of neoprene trough required is included in the quantity for "Bridge Drainage System Repairs". Removal of existing finger plate trough & any debris is included in the cost of "Bridge Drainage System Repairs".

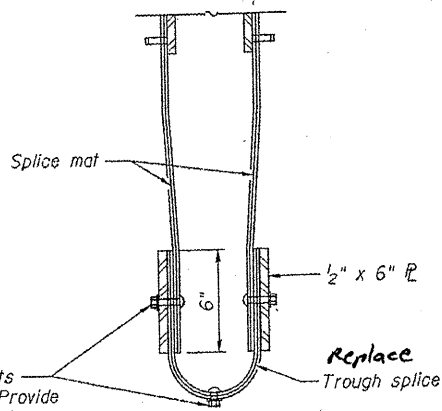
ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
  
I-90/94 (DAN RYAN EXPRESSWAY)  
DRAINAGE SYSTEM REPAIRS  
SN 016-1111  
PIER 7 NB & SB  
SHEET 2 OF 2

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 87           |

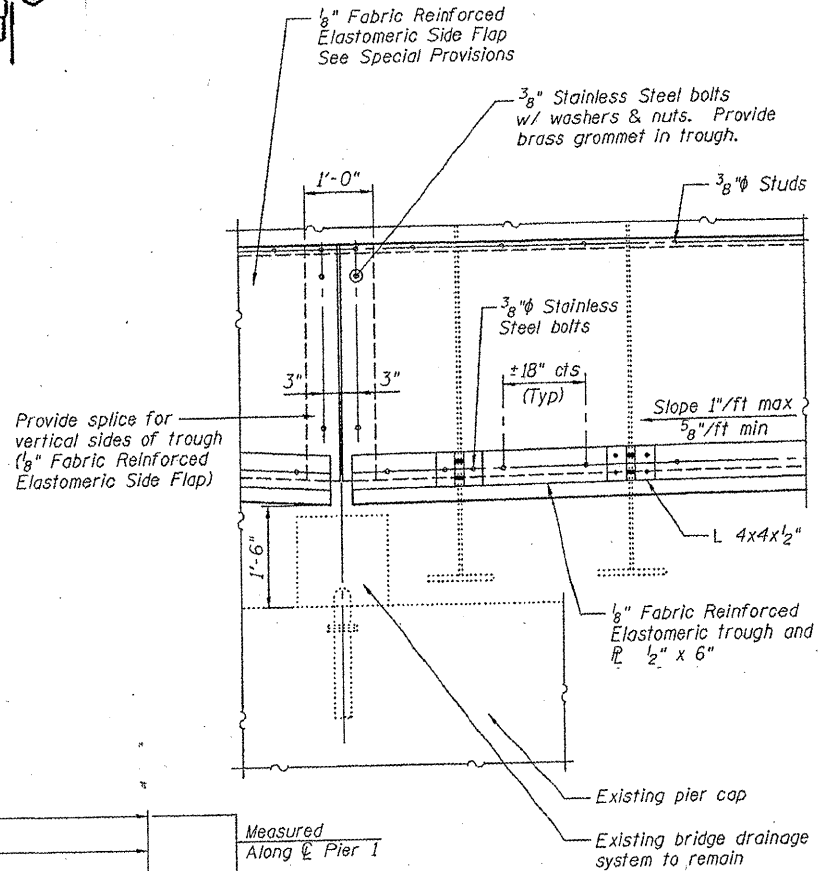
CONTRACT NO. 60P27



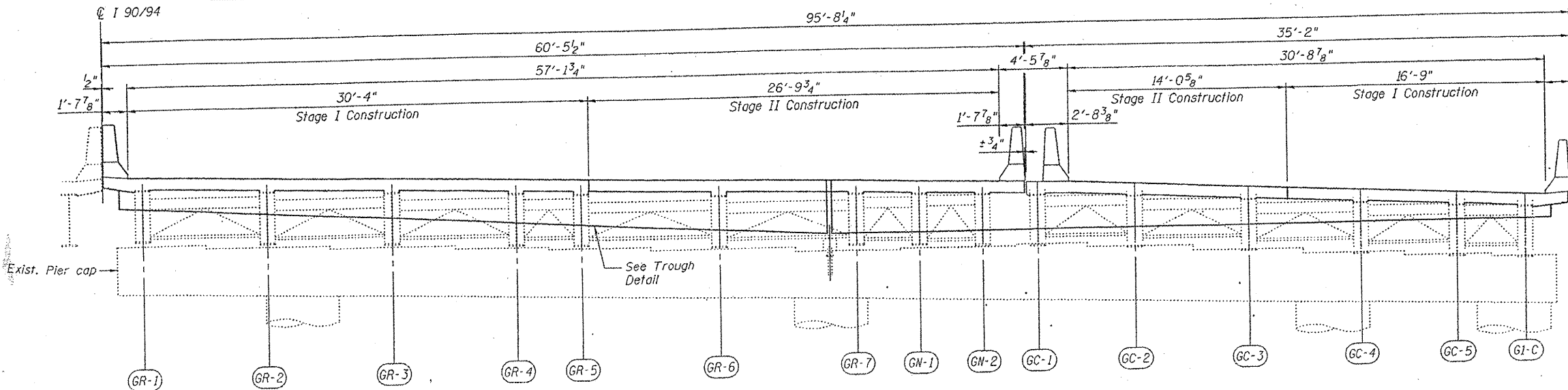
TROUGH SPLICE DETAIL



SECTION B-B



TROUGH DETAIL

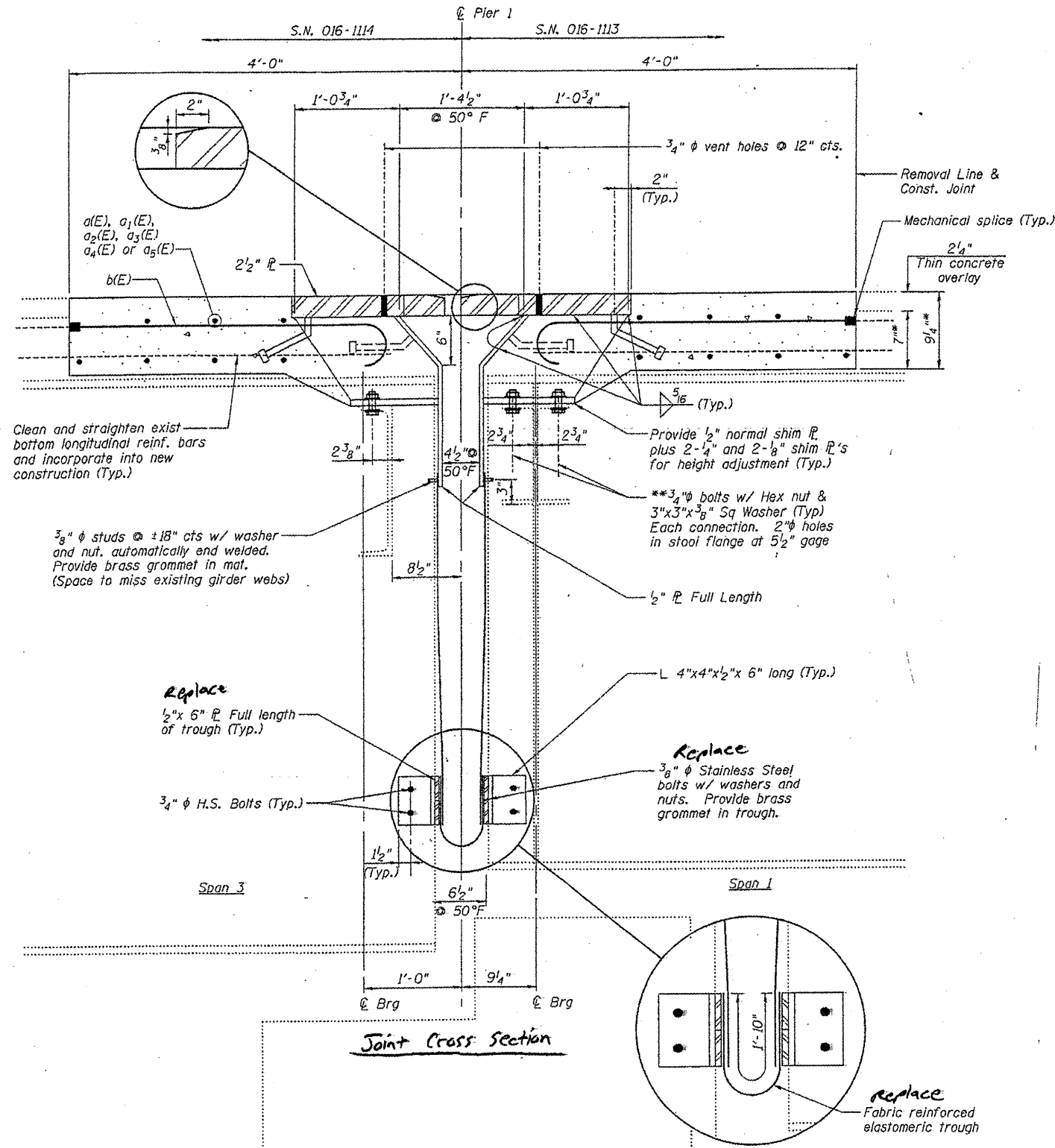


ELEVATION (LOOKING NORTH)  
(Showing Span 1 Deck Configuration)

ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-90/94 (DAN RYAN EXPRESSWAY)  
DRAINAGE SYSTEM REPAIRS  
SN 016-1113  
PIER 1 NB & SB  
SHEET 1 OF 2

| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-1 | COOK   | 87           | 84           |

CONTRACT NO. 60P27



**BILL OF MATERIAL**

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| Bridge Drainage System Repairs | FT.  | 196.0    |

**DRAINAGE REPAIR NOTES**

1. The Contractor shall replace the Fabric Reinforced Elastomeric Trough, splices, & stainless steel bolts with washers & nuts as detailed & according to 520 of the Standard Specifications. The length of neoprene trough required is included in the quantity for "Bridge Drainage System Repairs". Removal of existing finger plate trough & any debris is included in the cost of "Bridge Drainage System Repairs".

ILLINOIS DEPARTMENT OF  
TRANSPORTATION

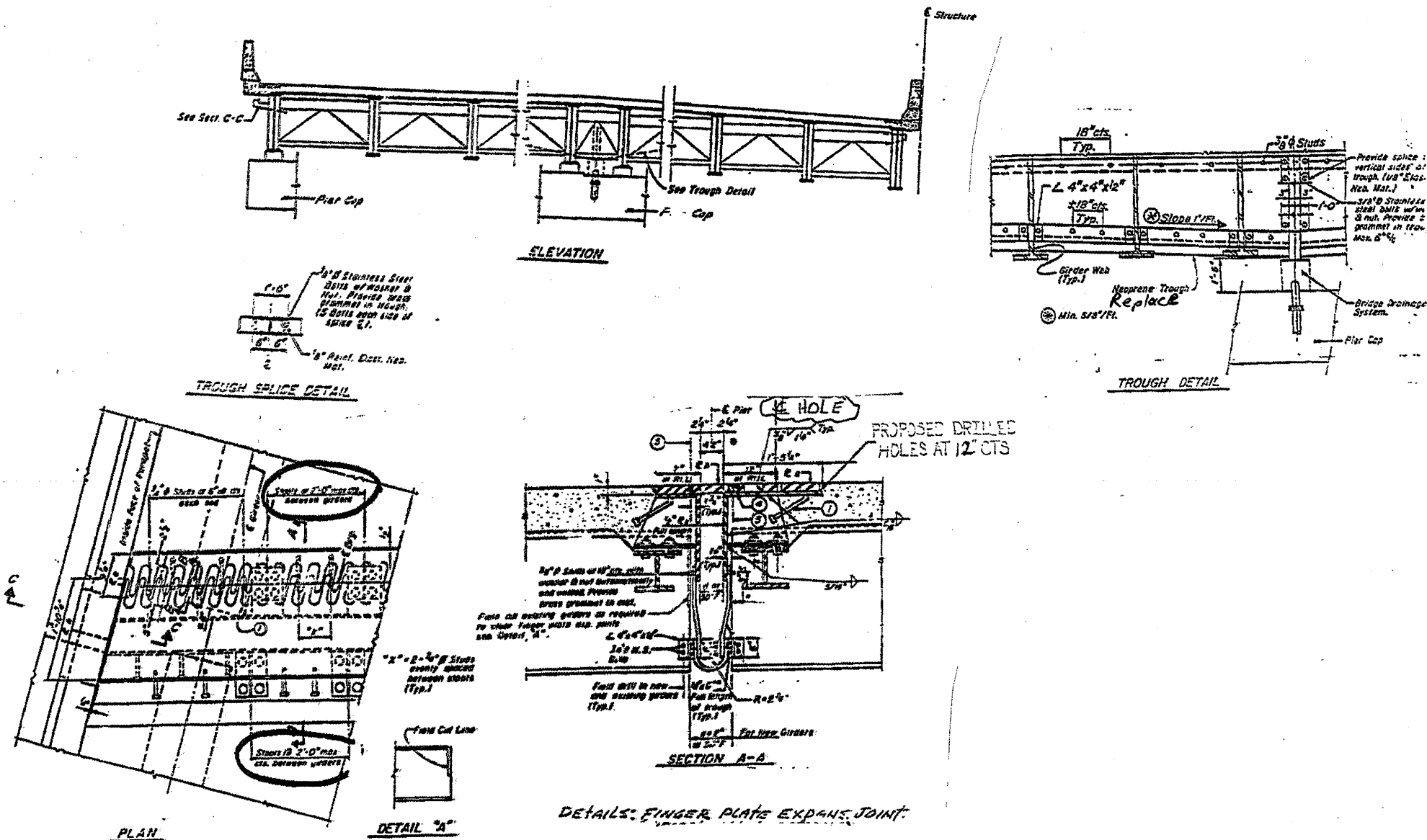
I-90/94 (DAN RYAN EXPRESSWAY)  
DRAINAGE SYSTEM REPAIRS

SN 016-1113  
PIER 1 NB & SB  
SHEET 2 OF 2



| ROUTE     | SECTION    | COUNTY | TOTAL SHEETS | SHEET NUMBER |
|-----------|------------|--------|--------------|--------------|
| FAI 90/94 | 2011-027-I | COOK   | 87           | 85           |

CONTRACT NO. 60P27



**BILL OF MATERIAL**

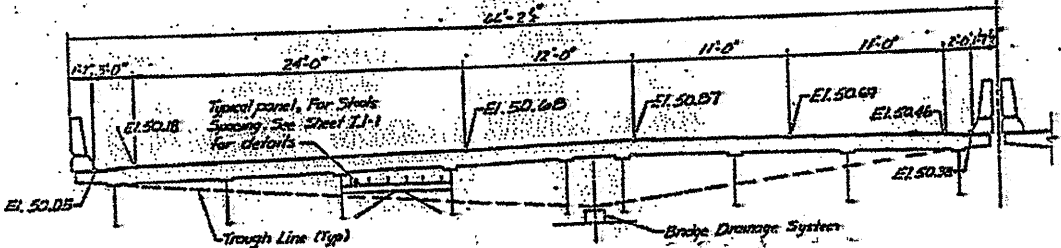
| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| Bridge Drainage System Repairs | FT.  | 140.0    |

**DRAINAGE REPAIR NOTES**

- The Contractor shall replace the Fabric Reinforced Elastomeric Trough, splices, & stainless steel bolts with washers & nuts as detailed & according to 520 of the Standard Specifications. The length of neoprene trough required is included in the quantity for "Bridge Drainage System Repairs". Removal of existing finger plate trough & any debris is included in the cost of "Bridge Drainage System Repairs".

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION**

**I-90/94 (DAN RYAN EXPRESSWAY)  
DRAINAGE SYSTEM REPAIRS  
SN 016-1116  
PIER 26 NB & SB**

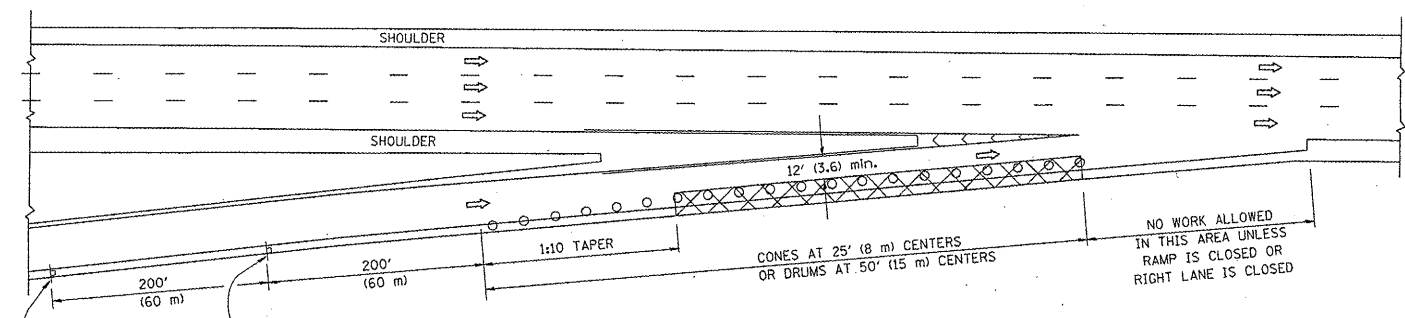


**EXPANSION JOINT AT PIER 26 SB**  
4 1/2 in. FINGER PLATE

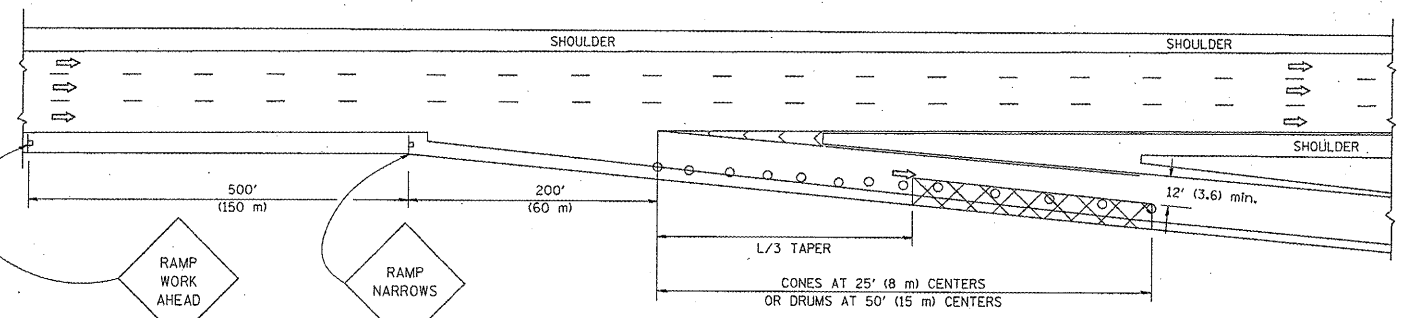
**LOCATION 10 (016-1116, P#26 NB Similar)**

# PARTIAL RAMP CLOSURE DETAILS

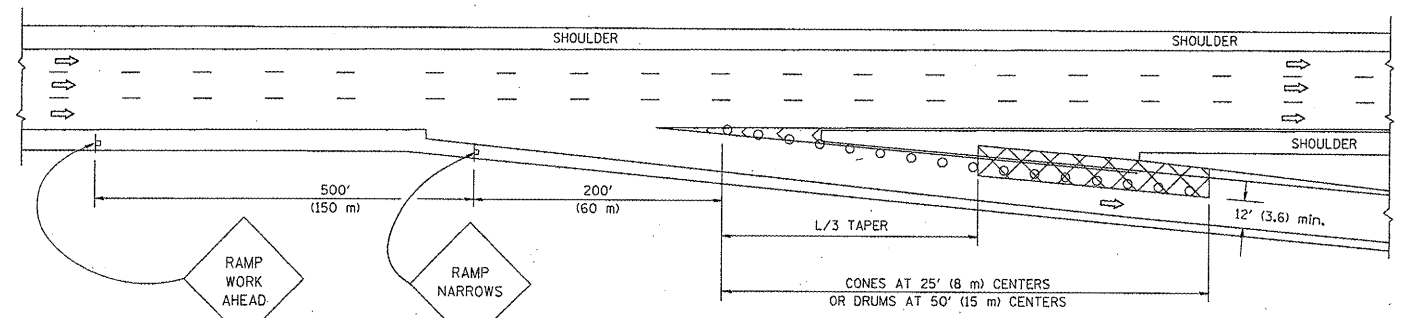
# SHOULDER CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



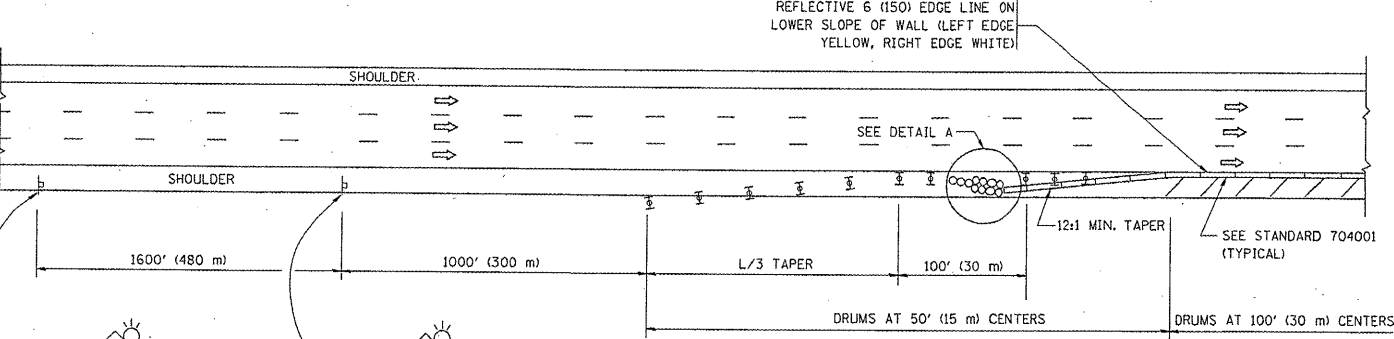
TYPICAL EXIT RAMP

## SYMBOLS

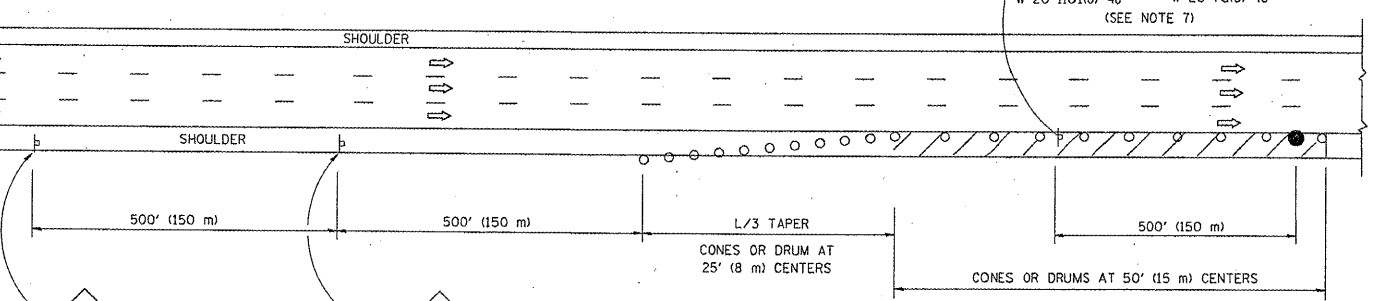
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

## GENERAL NOTES

- THE "L" DISTANCE EQUALS:  
SPEED LIMIT FORMULAS  
45 mph (80 km/h) METRIC ENGLISH  
OR GREATER:  $L = 0.65(W)(S)$   $L = (W)(S)$   
W = WIDTH OF OFFSET IN FEET (METERS)  
S = NORMAL POSTED SPEED MPH (KM/H)
- PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT.

DETAIL "A"  
IMPACT ATTENUATOR, TEMPORARY  
(SEE NOTE 5)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

|                          |                   |                |                        |
|--------------------------|-------------------|----------------|------------------------|
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| W:\dststd\22x34\td17.dgn |                   | DRAWN - D.W.S. | REVISED - J.A.F. 12-06 |
|                          |                   | CHECKED -      | REVISED - S.P.B. 01-07 |
|                          |                   | DATE - 11-96   | REVISED - S.P.B. 12-09 |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

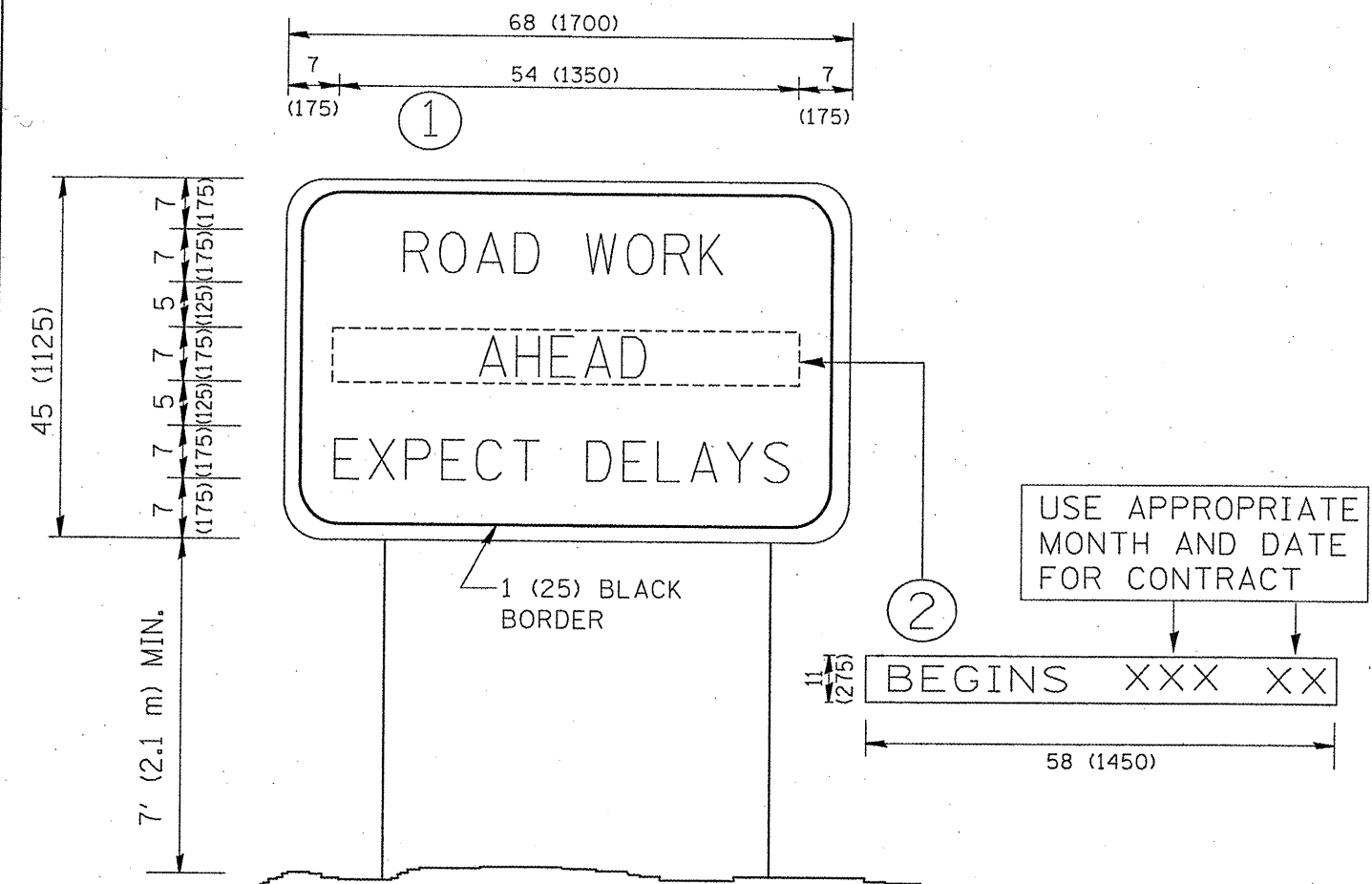
TRAFFIC CONTROL DETAILS FOR FREEWAY  
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A. I<br>RTE. | SECTION   | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
|----------------|-----------|--------|-----------------|--------------|
| 90/94          | 2011-27-1 | Cook   | 87              | 86           |
|                | TC-11     |        |                 |              |
|                |           |        |                 |              |

FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT CONTRACT NO. 60P27





# NOTES:

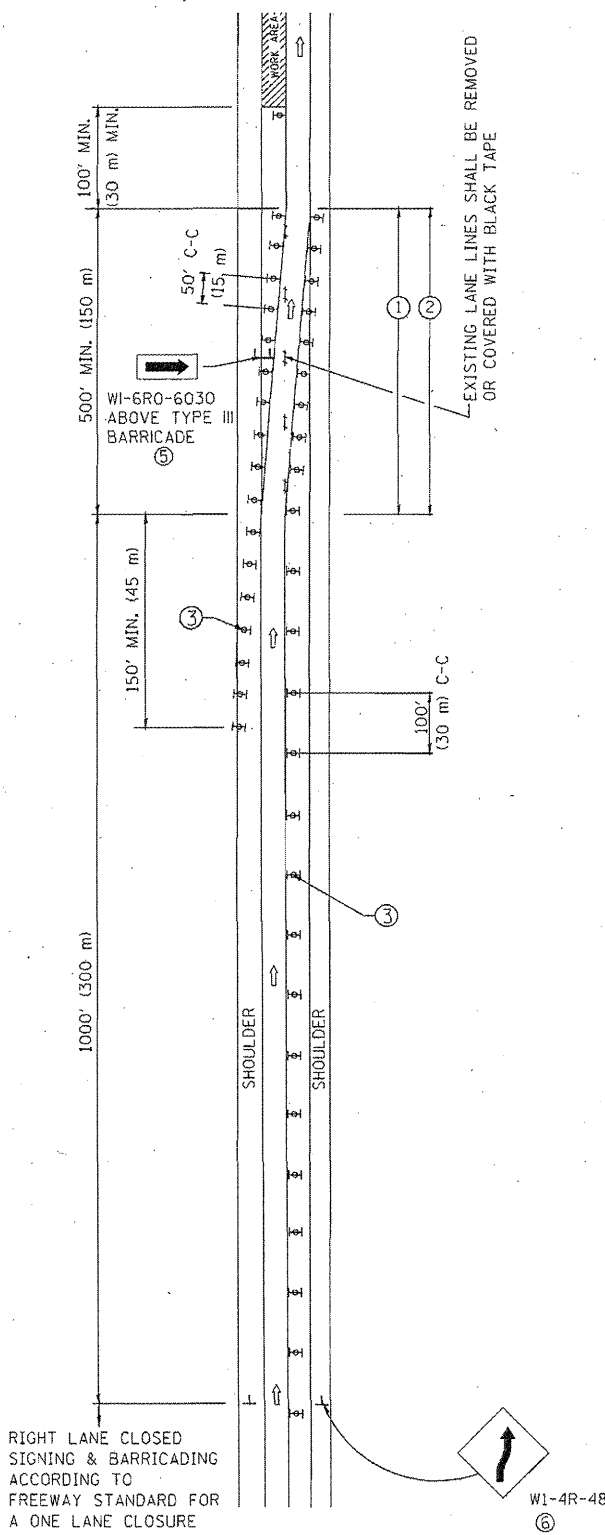
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

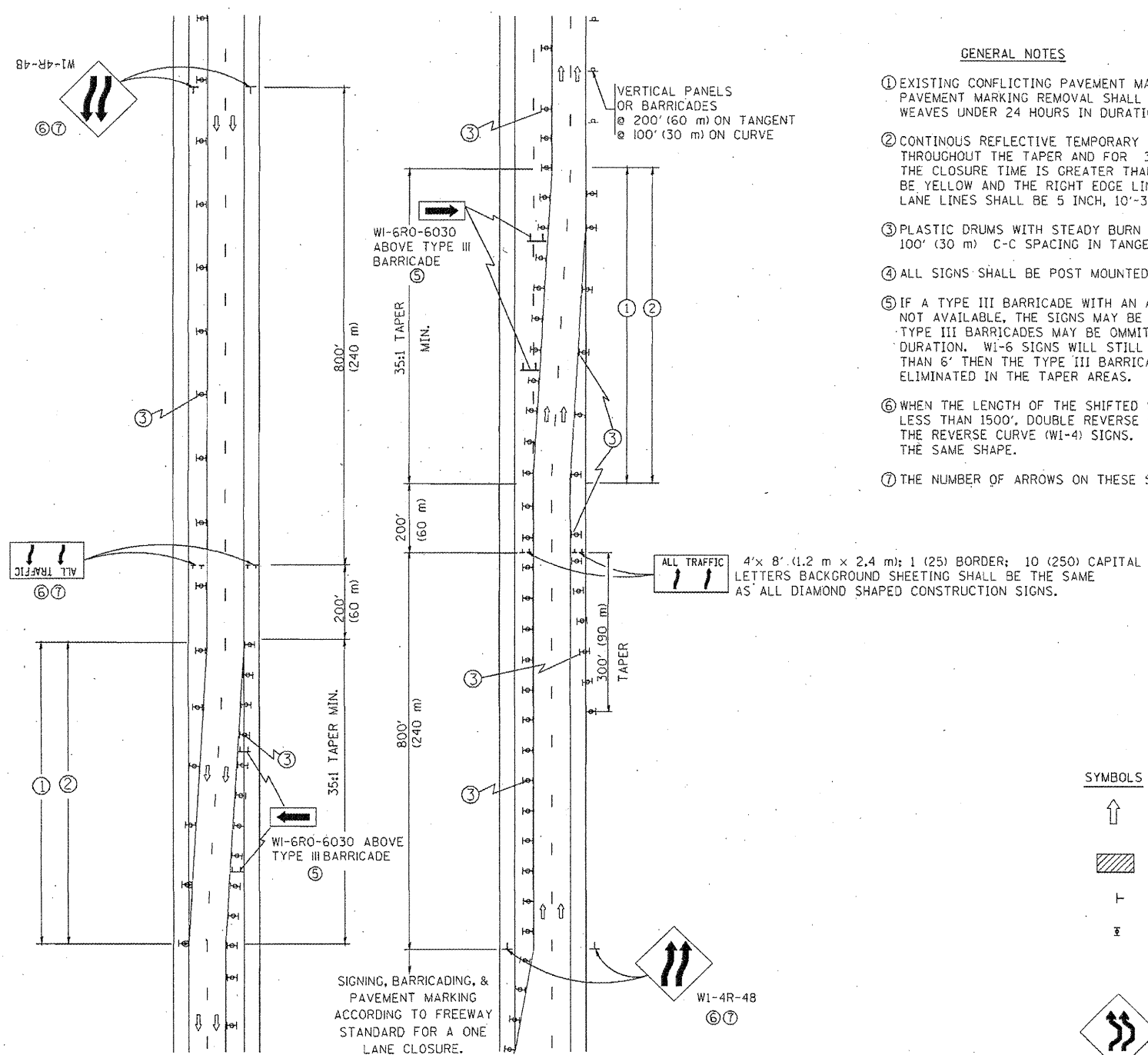
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| FILE NAME =<br>W:\diststd\22x34\to22.dgn               | USER NAME = gaglienobt     | DESIGNED - | REVISED - R. MIRS 09-15-97      | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | ARTERIAL ROAD<br>INFORMATION SIGN |             |    |        | F.A.S.<br>RTE. | SECTION | COUNTY                                          | TOTAL<br>SHEETS | SHEET<br>NO. |
|                                                        |                            | DRAWN -    | REVISED - R. MIRS 12-11-97      |                                                   |                                   |             |    |        |                |         |                                                 |                 |              |
|                                                        | PLOT SCALE = 50.000' / IN. | CHECKED -  | REVISED - T. RAMMACHER 02-02-99 |                                                   | SCALE: NONE                       | SHEET NO. 1 | OF | SHEETS | STA.           | TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | CONTRACT NO.    |              |
|                                                        | PLOT DATE = 1/4/2008       | DATE -     | REVISED - C. JUCIUS 01-31-07    |                                                   |                                   |             |    |        |                |         |                                                 |                 |              |
| 90/94 2011-27-1 Cook 87 87<br>TC-22 CONTRACT NO. 60/27 |                            |            |                                 |                                                   |                                   |             |    |        |                |         |                                                 |                 |              |



SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 24 HOURS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS. TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

|                          |             |            |           |
|--------------------------|-------------|------------|-----------|
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|                          |             | CHECKED -  | REVISED - |
|                          |             | DATE -     | REVISED - |
|                          |             | 02-87      | SPB 12-09 |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR  
FREEWAY SINGLE & MULTI-LANE WEAVE

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

|                       |            |                  |              |           |
|-----------------------|------------|------------------|--------------|-----------|
| F.A.S. RTE.           | SECTION    | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 944                   | 2011-027-1 | Cook             | 87           | 87A       |
| TC-09                 |            |                  |              |           |
| FED. ROAD DIST. NO. 1 | ILLINOIS   | FED. AID PROJECT |              |           |