

03-03-2017 LETTING ITEM 065

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2016-091T	COOK	69	1
		ILLINOIS	CONTRACT NO.	62D93

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED
HIGHWAY PLANS

VARIOUS ROUTES
VARIOUS LOCATIONS
SECTION 2016-091T
BRIDGE DRAINAGE SYSTEM REPAIRS
COOK COUNTY
C-91-148-17



SEE LOCATION MAPS
SHEETS 6 – 8

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

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056
PROJECT MANAGER: ISSAM RAYYAN (847) 705-4178

CONTRACT NO. 62D93

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 20, 2016
John Fortmann, Jr.
REGIONAL ENGINEER

Jan 27, 2017
Moumen M. Addis, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 27, 2017
David P. [Signature]
DIRECTOR OF PROGRAM DEVELOPMENT 2

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OF THE STATE OF ILLINOIS

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GENERAL BRIDGE NOTES

1. THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE THAT NO DEBRIS WILL ENDANGER OR INTERFERE WITH TRAFFIC ON THE ROADWAY (OR THE RAILROAD) BENEATH THE BRIDGE ACCORDING TO ARTICLE 107.09 (OR 107.12) OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPROPRIATE PAY ITEM INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
2. 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.
3. STRUCTURE SHEETS "GENERAL PLAN AND ELEVATION", "DRAINAGE PLAN" AND "DRAINAGE PLAN AND DETAILS" CREATED FROM ORIGINAL AS- BUILT DRAWINGS. THESE ARE PROVIDED FOR GENERAL REFERENCE TO STRUCTURE NUMBER, SPAN NUMBER AND LENGTH, ETC. WORK ITEMS FOR THIS CONTRACT ARE IDENTIFIED ON THE PLAN AND DETAIL SHEETS THAT FOLLOW.
4. THE LOCATIONS SHOWN AS REQUIRING DRAINAGE REPAIRS IDENTIFY THE GENERAL DEFICIENCY AND PROVIDE AN ESTIMATED LENGTH OF NEW PIPE REQUIRED. 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.
5. THE CONTRACTOR SHALL PROVIDE ALL PIPING, BRACKETS, HANGERS, FITTINGS, HARDWARE, CLAMPS AND OTHER ACCESSORIES REQUIRED TO RETURN THE EXISTING DRAINAGE SYSTEM TO A FULLY FUNCTIONAL LEAK FREE SYSTEM. SEE SPECIAL PROVISIONS.
6. 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 OF THE PIPE REPLACED OR THE LENGTH OF PIPE RE- TAPED.
7. THE CONTRACTOR SHALL WRAP ANY JOINTS THAT ARE LEAKING AS DIRECTED BY THE ENGINEER. THE COST SHALL BE INCLUDED IN "BRIDGE DRAINAGE SYSTEM REPAIRS".

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION IN THE CITY OF CHICAGO, 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).
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, CITY OF CHICAGO
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
5. 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.
6. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.
7. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
8. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
9. THE CONTRACTOR IS ADVISED THAT THERE WILL BE OTHER WORK OCCURRING ON THE EXPRESSWAY SYSTEM AT THE TIME OF THIS CONTRACT. THE CONTRACTOR WILL BE REQUIRED TO ATTEND WEEKLY COORDINATION MEETING TO SCHEDULE NIGHT TIME EXPRESSWAY LANE CLOSURES.

STATE STANDARDS

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701006-05 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701106-02 OFF-ROAD OPERATIONS, MULTI LANE, MORE THAN 15' AWAY
701400-09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-10 LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701428-01 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-08 TWO LANE CLOSURE FREEWAY/EXPRESSWAY
701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01 URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06 TRAFFIC CONTROL DEVICES

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|                                                                                                                                     |                     |            |           |                                                   |                                                                          |           |             |      |         |                           |         |        |              |           |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------|-----------|---------------------------------------------------|--------------------------------------------------------------------------|-----------|-------------|------|---------|---------------------------|---------|--------|--------------|-----------|
| FILE NAME =                                                                                                                         | USER NAME = dchharr | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | VARIOUS STRUCTURE<br>INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES |           |             |      |         | P.A. RTE.                 | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| pwt\IL884EBID\INTEG\illinois.gov\PIDOT\Documents\PIDOT Offices\District 1\Projects\011414\BRI\Notes\Design\0114B17-shr-genrnote.dgn |                     | CHECKED -  | REVISED - |                                                   | VAR.                                                                     | 2016-091T | COOK        | 69   | 2       |                           |         |        |              |           |
| PLOT SCALE = 100.0000' / in.                                                                                                        |                     | CHECKED -  | REVISED - |                                                   | CONTRACT NO. 62D93                                                       |           |             |      |         |                           |         |        |              |           |
| PLOT DATE = 12/21/2016                                                                                                              |                     | DATE       | REVISED - |                                                   | SCALE:                                                                   | SHEET 1   | OF 1 SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT |         |        |              |           |



[illegible]





TRAFFIC DATA

LOCATION 1 (SN 016-0119)

I-90/94:  
2014 ADT = 263,400  
POSTED SPEED LIMIT = 55 MPH

LOCATION 2 (SN 016-0128)

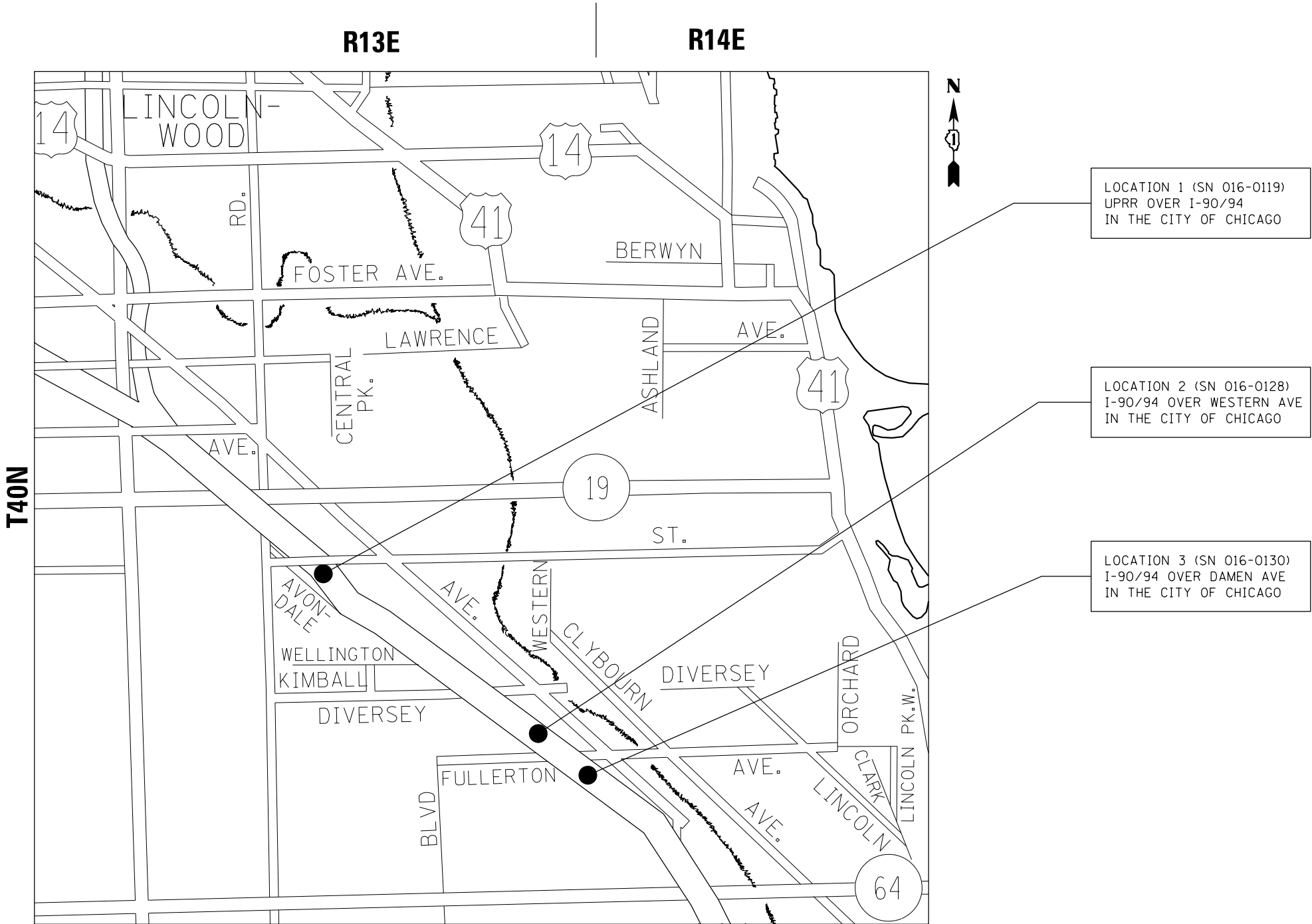
I-90/94  
2014 ADT = 274,600  
POSTED SPEED LIMIT = 55 MPH

WESTERN AVE:  
2014 ADT = 24,300  
POSTED SPEED LIMIT = 30 MPH

LOCATION 3 (SN 016-0130)

I-90/94:  
2014 ADT = 275,100  
POSTED SPEED LIMIT = 55 MPH

DAMEN AVE:  
2014 ADT = 11,900  
POSTED SPEED LIMIT = 40 MPH



JEFFERSON AND WEST CHICAGO TOWNSHIPS

TRAFFIC DATA

LOCATION 4 (SN 016-0137)

I-90/94 (DAN RYAN):  
2014 ADT = 262,100  
POSTED SPEED LIMIT = 45 MPH

MAXWELL TO 15TH ST:  
2014 ADT = 4,600  
POSTED SPEED LIMIT = 30 MPH

LOCATION 5 (SN 016-1110)

I-90/94 (DAN RYAN):  
2014 ADT = 262,900  
POSTED SPEED LIMIT = 45 MPH

15TH ST TO 16TH ST:  
1998 ADT = 300  
POSTED SPEED LIMIT = -- MPH

LOCATION 6 (SN 016-1111)

I-90/94 (DAN RYAN):  
2014 ADT = 262,900  
POSTED SPEED LIMIT = 45 MPH

16TH ST TO 18TH ST:  
2014 ADT = 13,800  
POSTED SPEED LIMIT = 25 MPH

LOCATION 7 (SN 016-1112)

I-90/94 (DAN RYAN):  
2014 ADT = 262,900  
POSTED SPEED LIMIT = 45 MPH

18TH ST TO 22ND ST:  
2014 ADT = 5,300  
POSTED SPEED LIMIT = 25 MPH

LOCATION 8 (SN 016-1113)

I-90/94 (DAN RYAN):  
2014 ADT = 167,700  
POSTED SPEED LIMIT = 45 MPH

22ND ST TO SB CHI RVR:  
2014 ADT = 9,050  
POSTED SPEED LIMIT = 30 MPH

LOCATION 9 (SN 016-1047)

I-55 WB RAMP TO NB DAN RYAN:  
1998 ADT = 15,700  
POSTED SPEED LIMIT = 30 MPH

ARCHER:  
2014 ADT = 14,400  
POSTED SPEED LIMIT = 25 MPH

LOCATION 10 (SN 016-1140)

I-94 NB RAMP TO I-55 WB:  
2002 ADT = 16,900  
POSTED SPEED LIMIT = 35 MPH

I-55 STEVENSON:  
2014 ADT = 56,700  
POSTED SPEED LIMIT = 50 MPH

LOCATION 11 (SN 016-1116)

I-90/94 (DAN RYAN):  
2014 ADT = 217,600  
POSTED SPEED LIMIT = 45 MPH

LOCATION 12 (SN 016-1067)

I-90/94 (DAN RYAN) SB LOCAL:  
2014 ADT = 108,800  
POSTED SPEED LIMIT = 45 MPH

STEWART ST TO 29TH ST:  
2014 ADT = 450  
POSTED SPEED LIMIT = 40 MPH

LOCATION 13 (SN 016-1118)

I-90/94 (DAN RYAN) NB LOCAL:  
2014 ADT = 108,800  
POSTED SPEED LIMIT = 45 MPH

WELLS TO 29TH PL:  
2014 ADT = 450  
POSTED SPEED LIMIT = 40 MPH

LOCATION 14 (SN 016-1158)

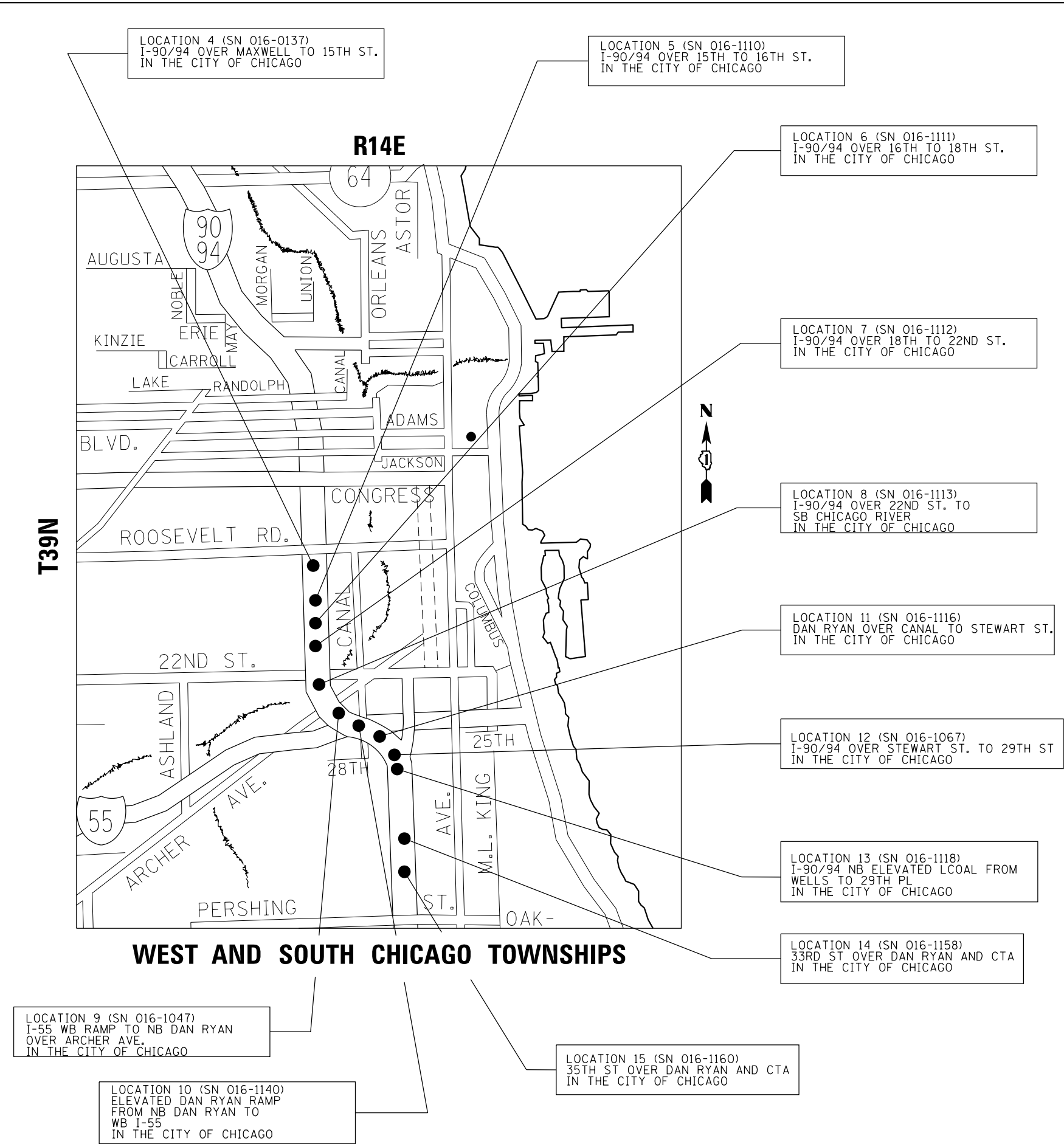
33RD ST:  
2000 ADT = 9,000  
POSTED SPEED LIMIT = 20 MPH

DAN RYAN AND CTA:  
2014 ADT = 300,800  
POSTED SPEED LIMIT = 55 MPH

LOCATION 15 (SN 016-1160)

35TH ST:  
2014 ADT = 9,600  
POSTED SPEED LIMIT = 25 MPH

DAN RYAN AND CTA:  
2014 ADT = 285,800  
POSTED SPEED LIMIT = 55 MPH

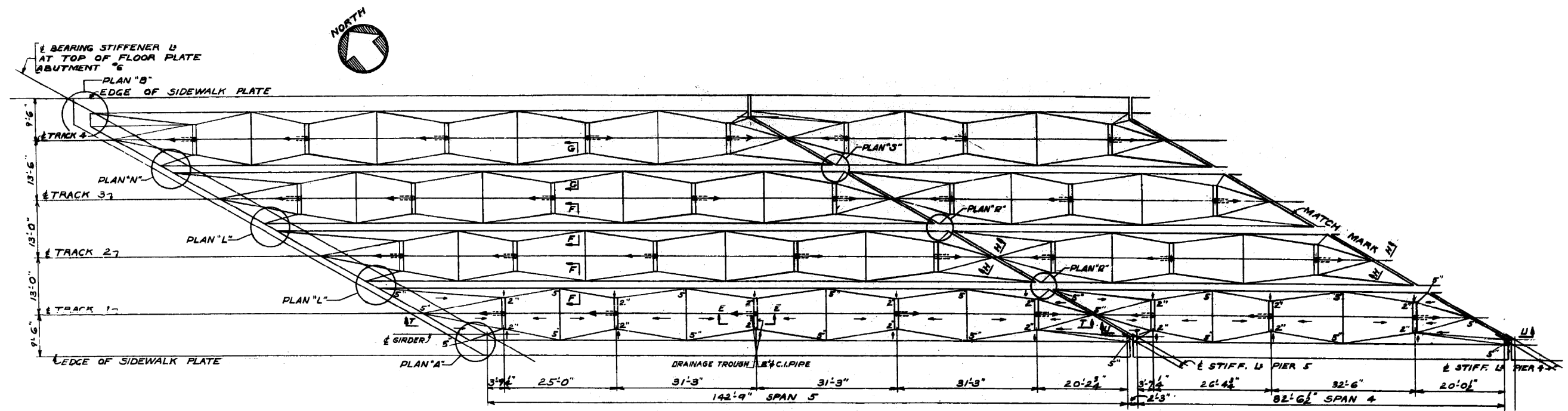


|                                                                                                                                      |  |                              |  |            |  |           |  |                                                   |  |         |  |                                   |           |  |      |    |              |         |        |                 |              |
|--------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|--|------------|--|-----------|--|---------------------------------------------------|--|---------|--|-----------------------------------|-----------|--|------|----|--------------|---------|--------|-----------------|--------------|
| FILE NAME =                                                                                                                          |  | USER NAME = dahharr          |  | DESIGNED - |  | REVISED - |  | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION |  |         |  | LOCATION MAP<br>LOCATIONS 4 TO 15 |           |  |      |    | F.A.<br>RTE. | SECTION | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
| p:\1\084EBID\INTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI1481\Drawings\Design\DI14817-shr-LOCATION MAP.dwg |  | PLOT SCALE = 100.0000' / in. |  | CHECKED -  |  | REVISED - |  |                                                   |  |         |  | VAR.                              | 2016-091T |  | COOK | 69 | 7            |         |        |                 |              |
| Default                                                                                                                              |  | PLOT DATE = 12/21/2016       |  | DATE -     |  | REVISED - |  |                                                   |  |         |  | CONTRACT NO. 62093                |           |  |      |    |              |         |        |                 |              |
|                                                                                                                                      |  |                              |  |            |  |           |  |                                                   |  |         |  | ILLINOIS FED. AID PROJECT         |           |  |      |    |              |         |        |                 |              |
| SCALE:                                                                                                                               |  | SHEET 2                      |  | OF 3       |  | SHEETS    |  | STA.                                              |  | TO STA. |  |                                   |           |  |      |    |              |         |        |                 |              |

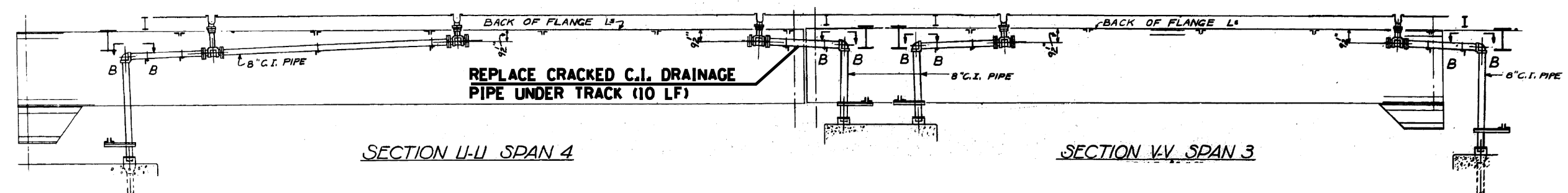
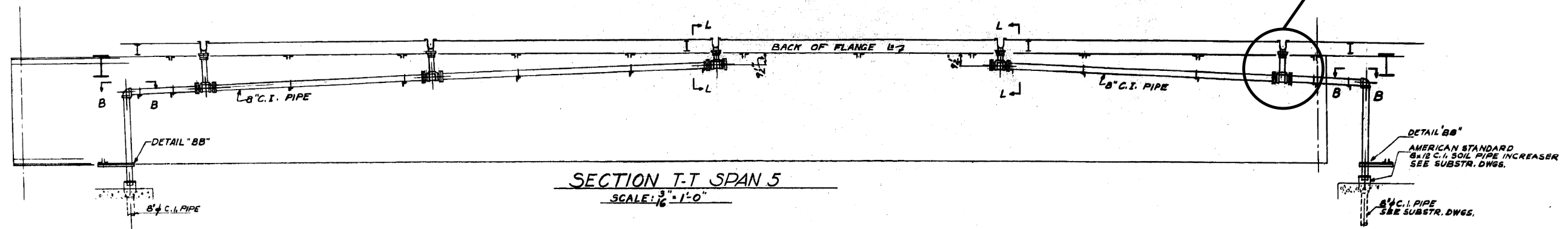








REPLACE FAILED C.I. DRAINAGE  
CONNECTION ELBOW UNDER TRACK  
SEE SECTION E-E ON SHEET 3 OF 3 OF  
SN 016-0119 (5 LF)



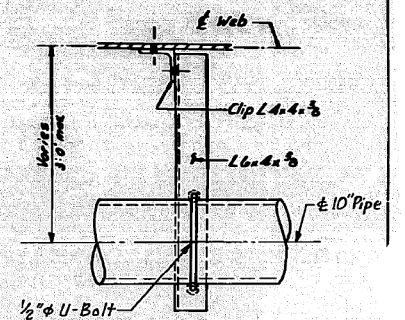
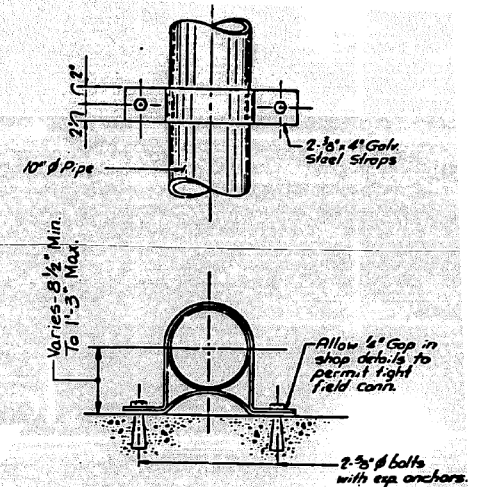
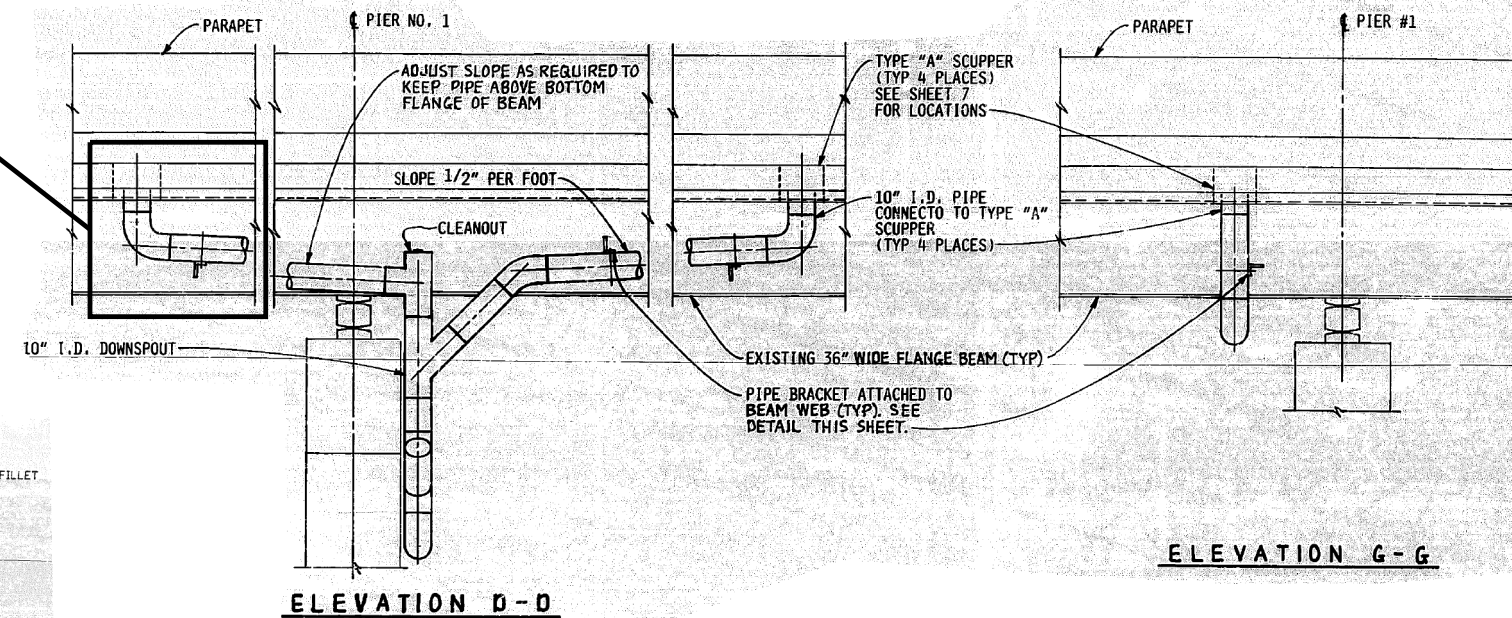
**DRAINAGE DETAILS**

|            |                                    |         |                                                   |                                                               |                           |           |        |              |           |
|------------|------------------------------------|---------|---------------------------------------------------|---------------------------------------------------------------|---------------------------|-----------|--------|--------------|-----------|
| DESIGNED - | EXAMINED                           | DATE -  | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 1 (SN 016-0119)<br>PARTIAL PLAN AND DRAINAGE DETAILS | F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| CHECKED -  | ENGINEER OF STRUCTURAL SERVICES    |         |                                                   |                                                               | VAR.                      | 2016-091T | COOK   | 69           | 10        |
| DRAWN -    | PASSED                             | REVISED |                                                   |                                                               | CONTRACT NO. 62093        |           |        |              |           |
| CHECKED -  | ENGINEER OF BRIDGES AND STRUCTURES | REVISED |                                                   |                                                               | ILLINOIS FED. AID PROJECT |           |        |              |           |

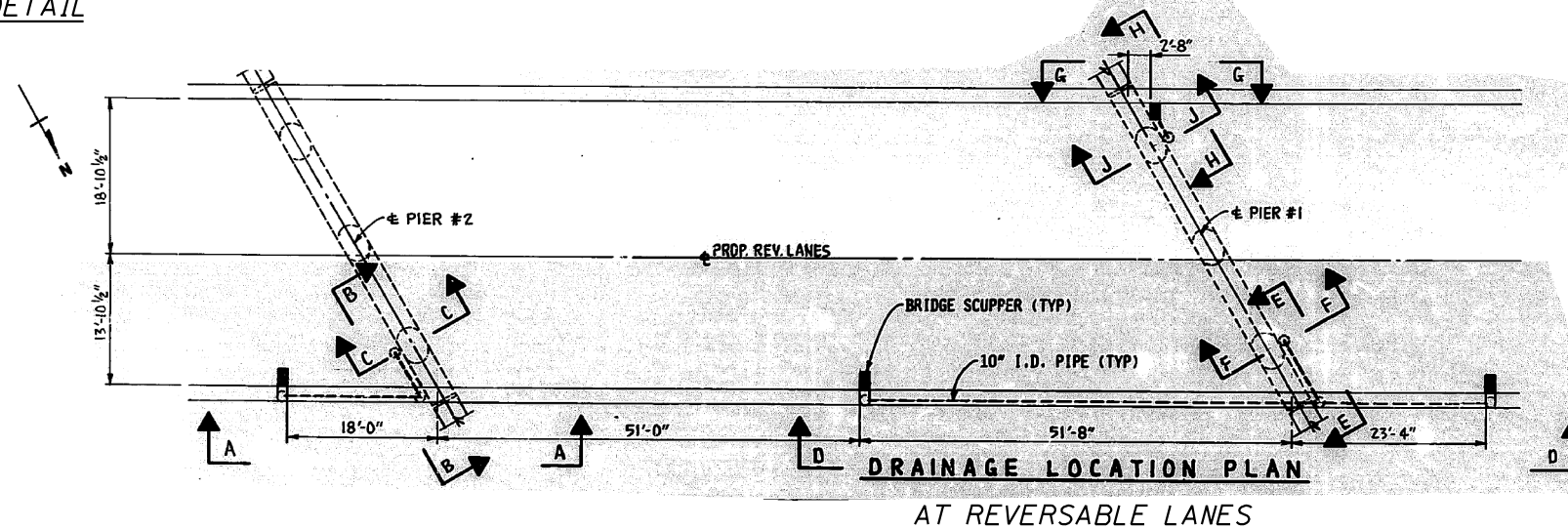








Note: Space Pipe Support Brackets as recommended by pipe manufacturer



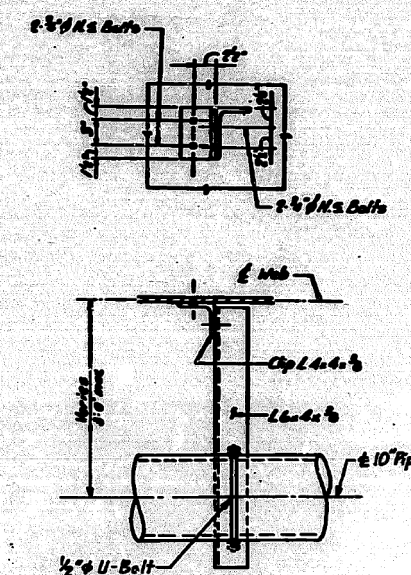
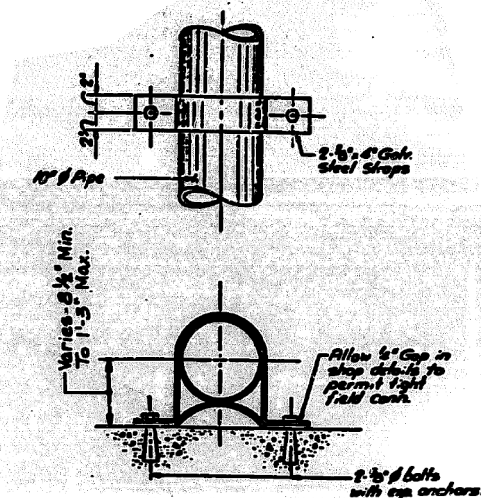
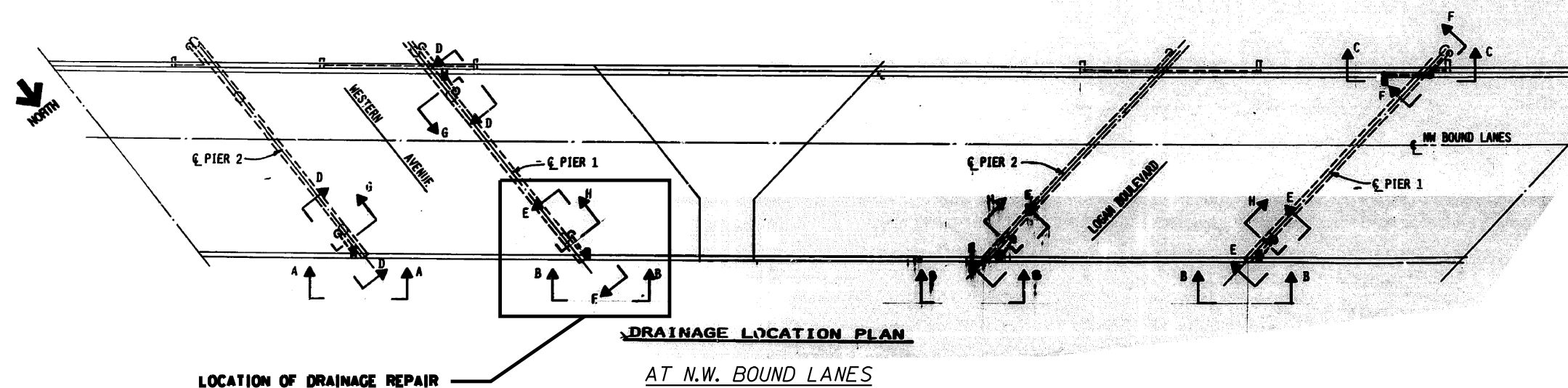
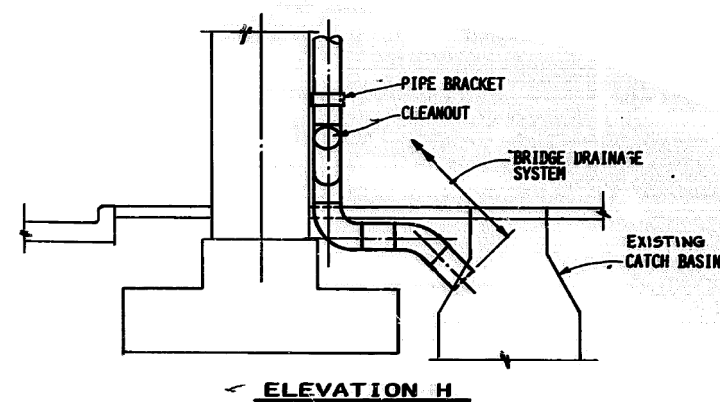
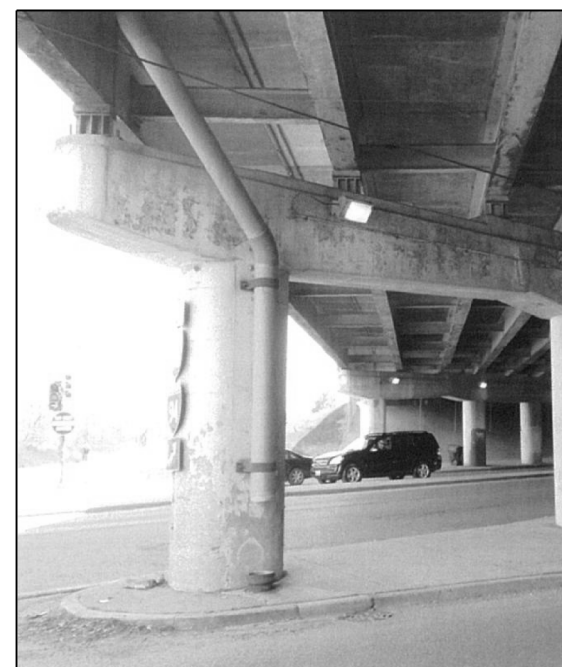
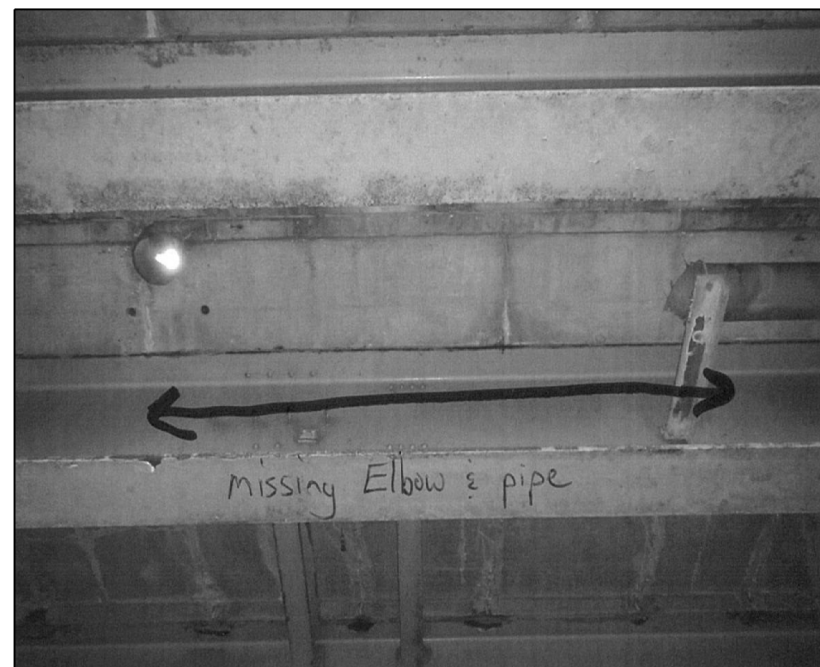
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|------------|------------------------------------|---------|
| DESIGNED - | EXAMINED                           | DATE -  |
| CHECKED -  | ENGINEER OF STRUCTURAL SERVICES    |         |
| DRAWN -    | PASSED                             | REVISED |
| CHECKED -  | ENGINEER OF BRIDGES AND STRUCTURES | REVISED |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LOCATION 2 (SN 016-0128)**  
**REVERSIBLE LANES DRAINAGE DETAILS**

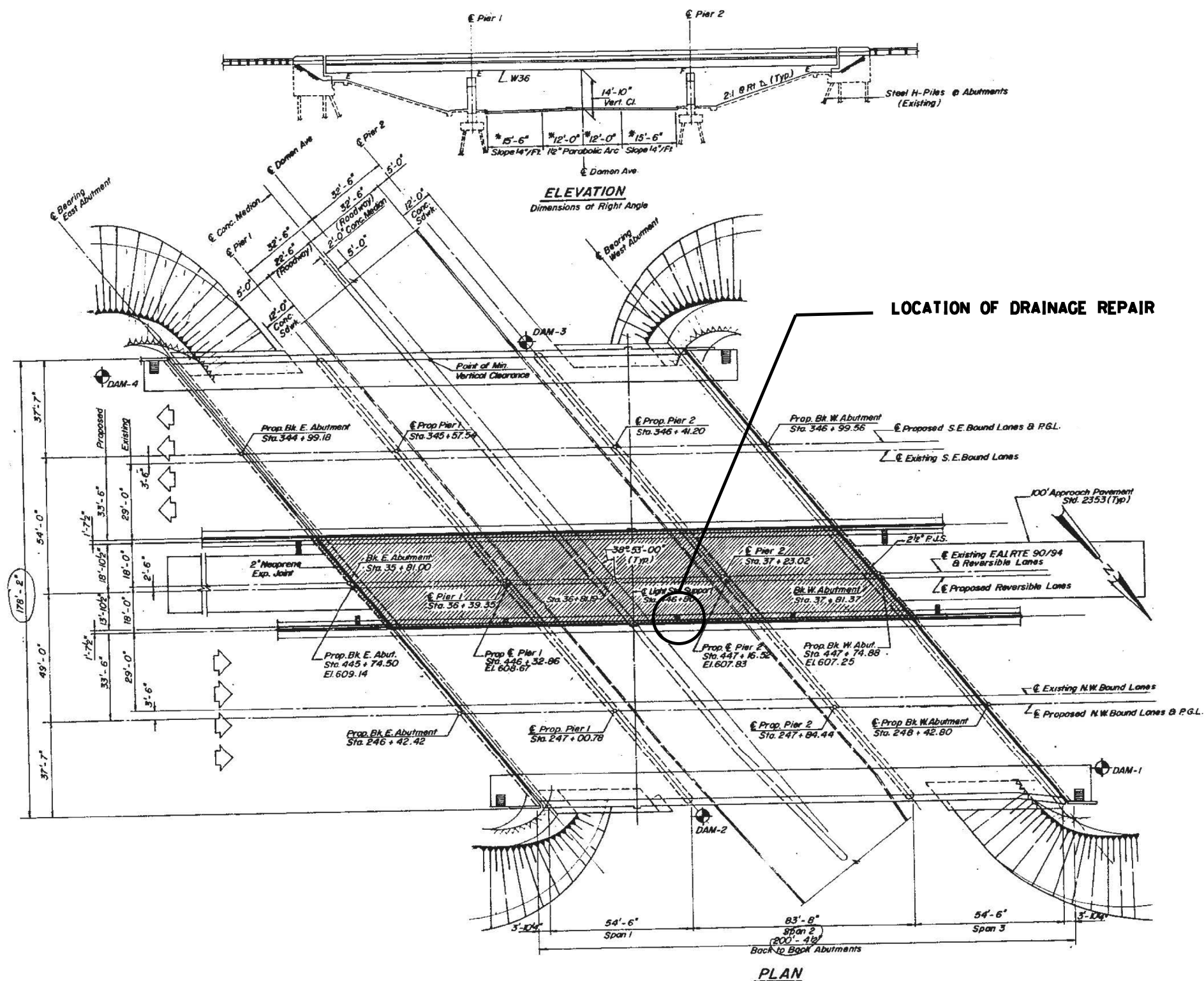
SHEET NO. 2 OF 3 SHEETS

|              |           |                           |                 |              |
|--------------|-----------|---------------------------|-----------------|--------------|
| F.A.<br>RTE. | SECTION   | COUNTY                    | TOTAL<br>SHEETS | SHEET<br>NO. |
| VAR.         | 2016-091T | COOK                      | 69              | 13           |
|              |           | CONTRACT NO. 62D93        |                 |              |
|              |           | ILLINOIS FED. AID PROJECT |                 |              |



Note: Space Pipe Support Brackets as recommended by pipe manufacturer

|            |          |                                    |                                                   |                                                               |                    |                           |        |              |           |
|------------|----------|------------------------------------|---------------------------------------------------|---------------------------------------------------------------|--------------------|---------------------------|--------|--------------|-----------|
| DESIGNED - | EXAMINED | DATE -                             | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 2 (SN 016-0128)<br>N.W. BOUND LANES DRAINAGE DETAILS | F.A. RTE.          | SECTION                   | COUNTY | TOTAL SHEETS | SHEET NO. |
| CHECKED -  |          | ENGINEER OF STRUCTURAL SERVICES    |                                                   |                                                               | VAR.               | 2016-091T                 | COOK   | 69           | 14        |
| DRAWN -    | PASSED   | REVISOR                            |                                                   | SHEET NO. 3 OF 3 SHEETS                                       | CONTRACT NO. 62D90 |                           |        |              |           |
| CHECKED -  |          | ENGINEER OF BRIDGES AND STRUCTURES |                                                   |                                                               | REVISOR            | ILLINOIS FED. AID PROJECT |        |              |           |



**TOTAL BILL OF MATERIAL (S.N. 016-0130)**  
**I-90/94 OVER DAMEN AVE.**

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 3        |

|            |                                    |         |
|------------|------------------------------------|---------|
| DESIGNED - | EXAMINED                           | DATE -  |
| CHECKED -  | ENGINEER OF STRUCTURAL SERVICES    |         |
| DRAWN -    | PASSED                             | REVISED |
| CHECKED -  | ENGINEER OF BRIDGES AND STRUCTURES | REVISED |

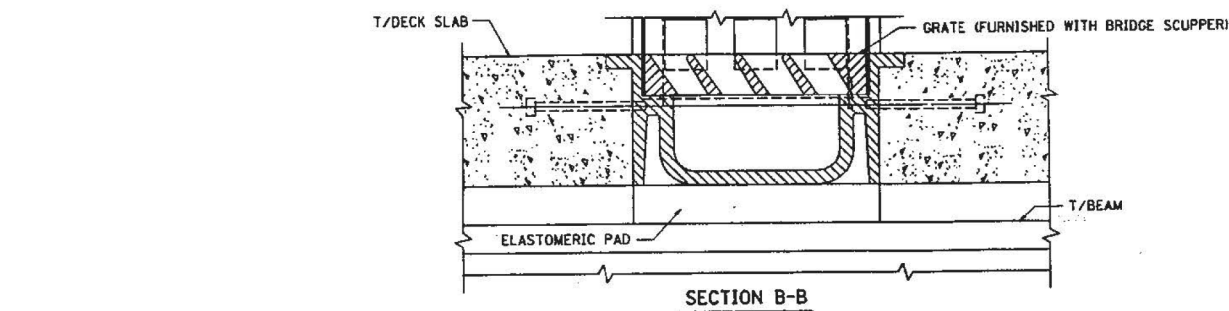
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**LOCATION 3 (SN 016-0130)**  
**GENERAL PLAN AND ELEVATION**

SHEET NO. 1 OF 3 SHEETS

|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR.                      | 2016-091T | COOK   | 69           | 15        |
| CONTRACT NO. 62093        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

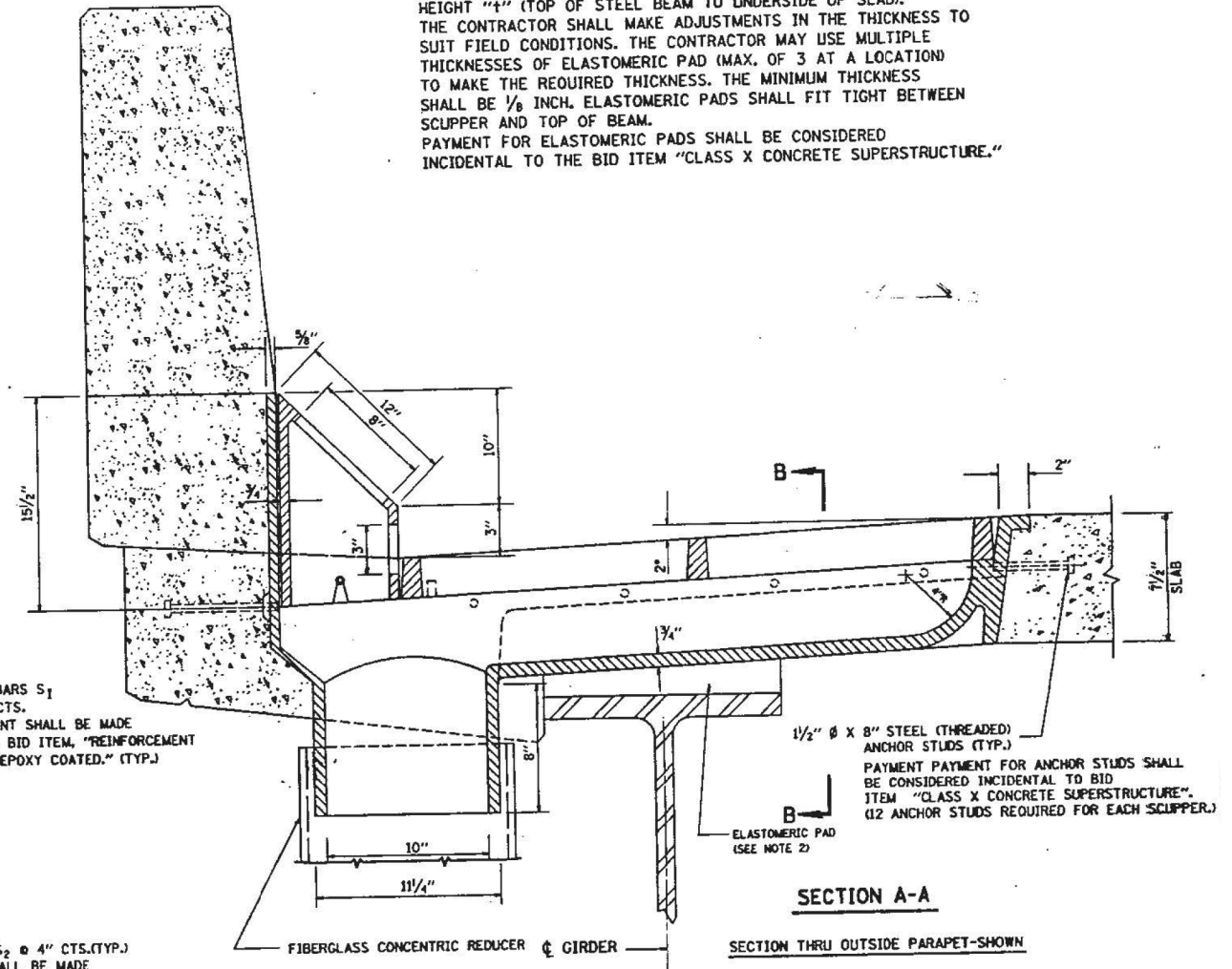
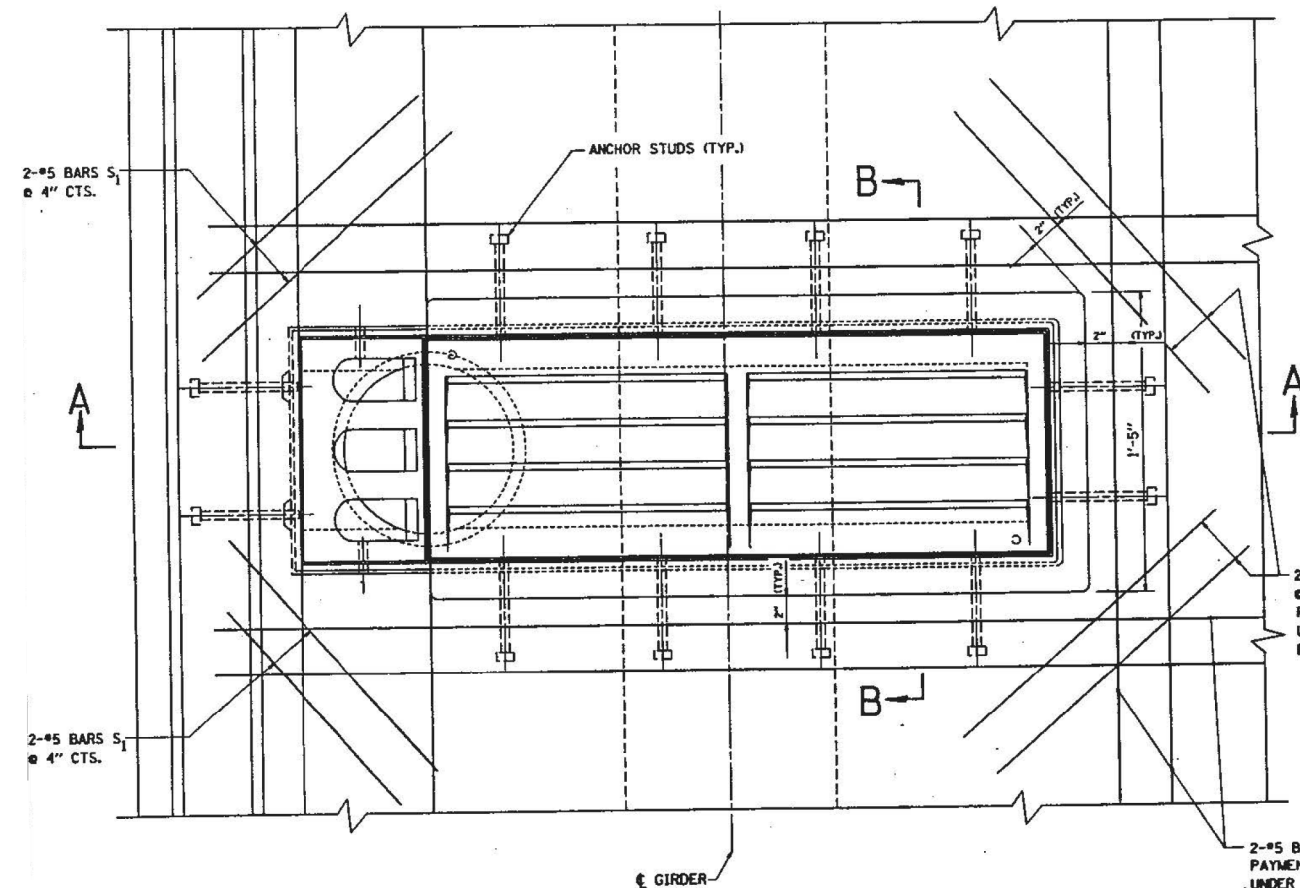




STEEL REINFORCING IN  
PARAPETS AND DECK SLAB  
SHOWN ON DECK SLAB AND  
PARAPET CONTRACT PLANS.

**NOTES:**

1. ELASTOMERIC PADS SHALL BE IN ACCORDANCE WITH ARTICLE 718.20, TABLE A OR B OF THE STANDARD SPECIFICATIONS.
2. THICKNESS OF ELASTOMERIC PAD IS THEORETICALLY EQUAL TO THE FILLET HEIGHT "t" (TOP OF STEEL BEAM TO UNDERSIDE OF SLAB). THE CONTRACTOR SHALL MAKE ADJUSTMENTS IN THE THICKNESS TO SUIT FIELD CONDITIONS. THE CONTRACTOR MAY USE MULTIPLE THICKNESSES OF ELASTOMERIC PAD (MAX. OF 3 AT A LOCATION) TO MAKE THE REQUIRED THICKNESS. THE MINIMUM THICKNESS SHALL BE 1/8 INCH. ELASTOMERIC PADS SHALL FIT TIGHT BETWEEN SCUPPER AND TOP OF BEAM. PAYMENT FOR ELASTOMERIC PADS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "CLASS X CONCRETE SUPERSTRUCTURE."

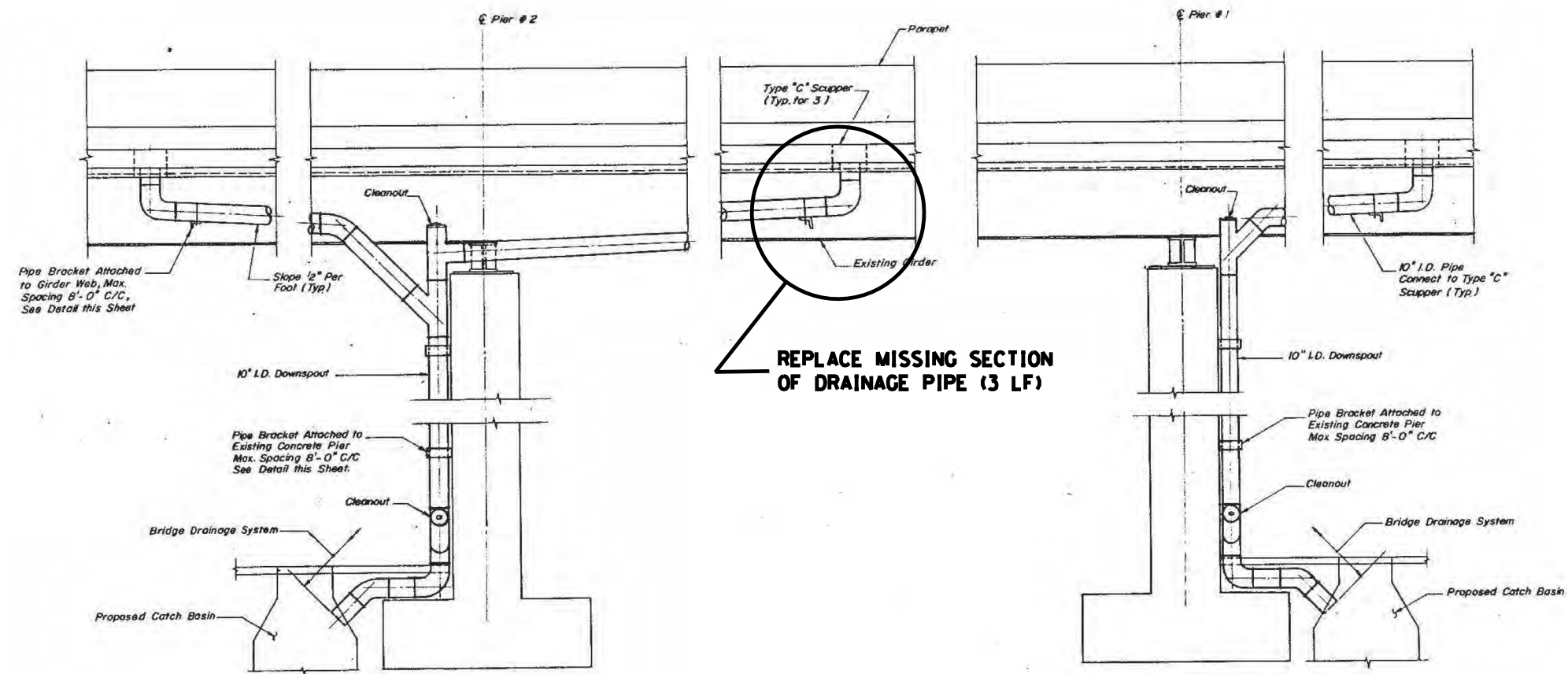


SCUPPER - TYPE "C"

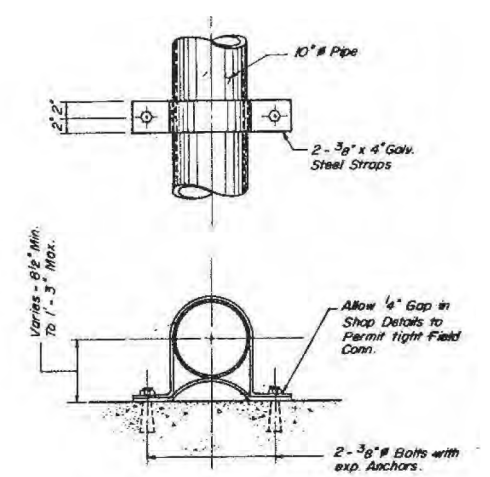
*FOR INFORMATION ONLY*

|            |                                    |        |                                                   |                                                     |                         |                           |           |        |              |           |
|------------|------------------------------------|--------|---------------------------------------------------|-----------------------------------------------------|-------------------------|---------------------------|-----------|--------|--------------|-----------|
| DESIGNED - | EXAMINED                           | DATE - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 3 (SN 016-0130)<br>BRIDGE SCUPPER-TYPE "C" | SHEET NO. 2 OF 3 SHEETS | F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| CHECKED -  | ENGINEER OF STRUCTURAL SERVICES    |        |                                                   |                                                     |                         | VAR.                      | 2016-091T | COOK   | 69           | 16        |
| DRAWN -    | PASSED                             | REVISD |                                                   |                                                     |                         | CONTRACT NO. 62093        |           |        |              |           |
| CHECKED -  | ENGINEER OF BRIDGES AND STRUCTURES | REVISD |                                                   |                                                     |                         | ILLINOIS FED. AID PROJECT |           |        |              |           |

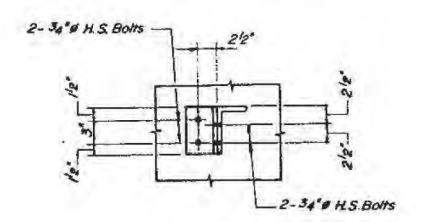




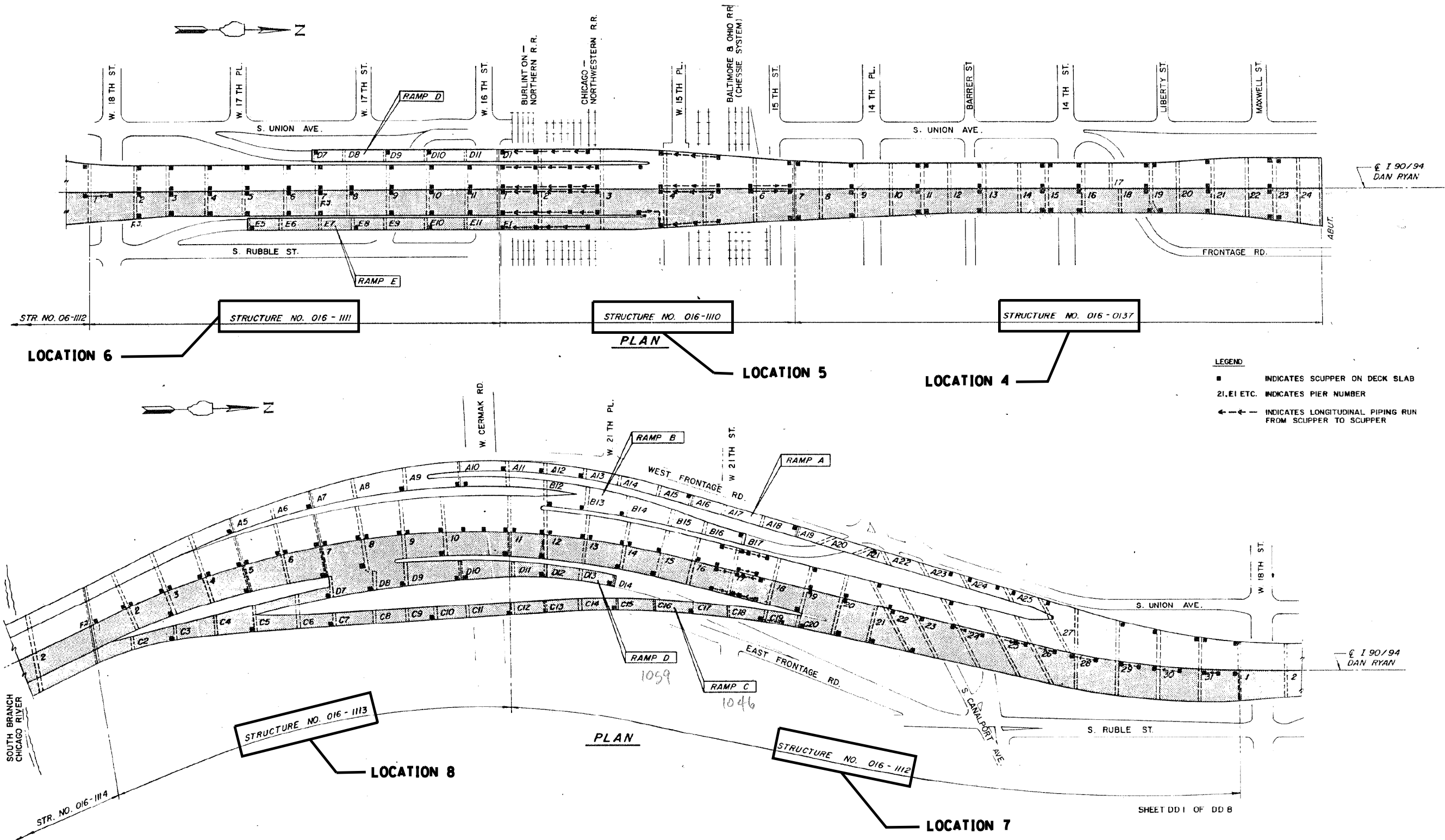
**ELEVATION - DRAINAGE SYSTEM**



**PIPE BRACKET DETAIL  
(TO CONCRETE)**



**PIPE BRACKET DETAIL  
(TO BEAM WEB)**

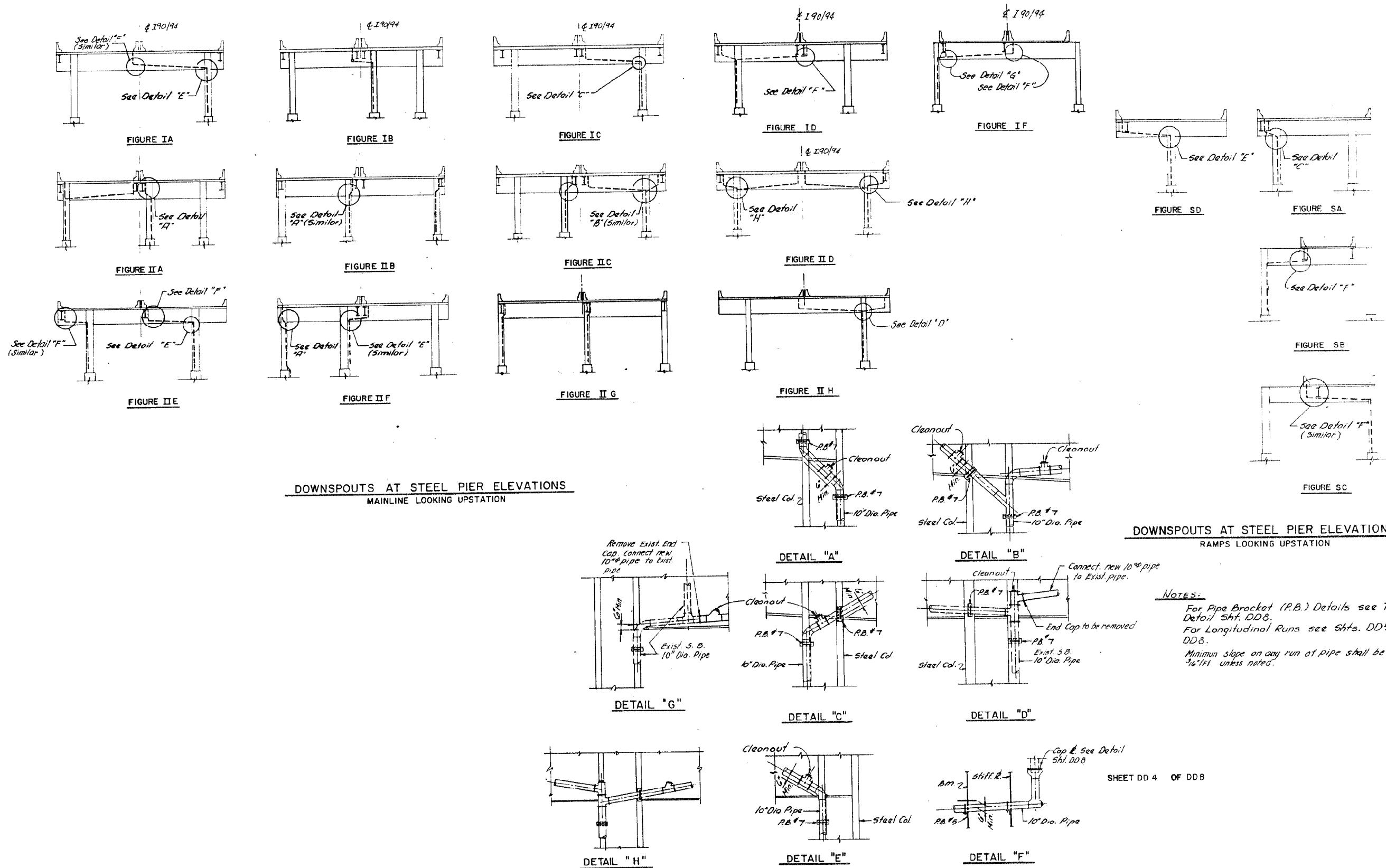


|            |                                    |         |                                                   |  |                                     |  |                           |           |        |              |           |
|------------|------------------------------------|---------|---------------------------------------------------|--|-------------------------------------|--|---------------------------|-----------|--------|--------------|-----------|
| DESIGNED - | EXAMINED                           | DATE -  | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION |  | LOCATIONS 4 TO 13<br>SCHEMATIC PLAN |  | F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| CHECKED -  | ENGINEER OF STRUCTURAL SERVICES    |         |                                                   |  |                                     |  | VAR.                      | 2016-091T | COOK   | 69           | 18        |
| DRAWN -    | PASSED                             | REVISED |                                                   |  |                                     |  | CONTRACT NO. 62093        |           |        |              |           |
| CHECKED -  | ENGINEER OF BRIDGES AND STRUCTURES | REVISED |                                                   |  |                                     |  | ILLINOIS FED. AID PROJECT |           |        |              |           |

SHEET NO. 1 OF 2 SHEETS

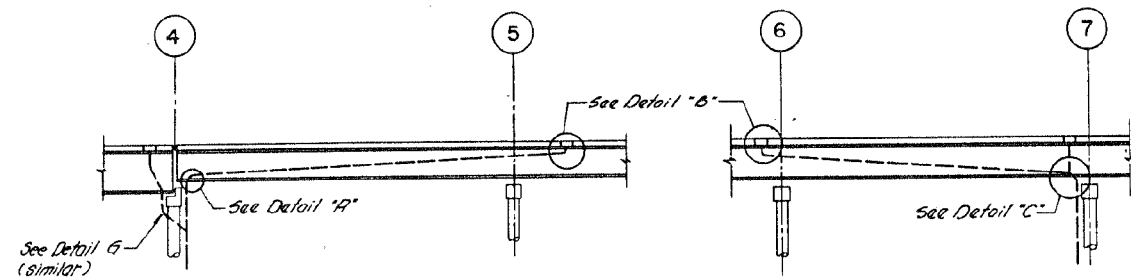






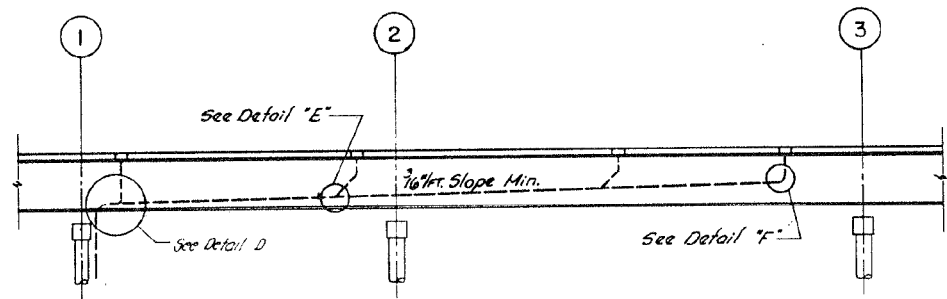
FOR INFORMATION ONLY

|                         |                                    |          |                                                   |                                               |                           |           |        |                 |              |
|-------------------------|------------------------------------|----------|---------------------------------------------------|-----------------------------------------------|---------------------------|-----------|--------|-----------------|--------------|
| DESIGNED -              | EXAMINED -                         | DATE -   | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATIONS 4 TO 13<br>DOWNSPOUTS AT STEEL PIER | F.A.<br>RTE.              | SECTION   | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
| CHECKED -               | ENGINEER OF STRUCTURAL SERVICES    |          |                                                   |                                               | VAR.                      | 2016-091T | COOK   | 69              | 21           |
| DRAWN -                 | PASSED -                           | REVISD - |                                                   |                                               |                           |           |        |                 |              |
| CHECKED -               | ENGINEER OF BRIDGES AND STRUCTURES | REVISD - |                                                   |                                               |                           |           |        |                 |              |
| SHEET NO. 2 OF 6 SHEETS |                                    |          |                                                   |                                               | CONTRACT NO. 62D93        |           |        |                 |              |
|                         |                                    |          |                                                   |                                               | ILLINOIS FED. AID PROJECT |           |        |                 |              |

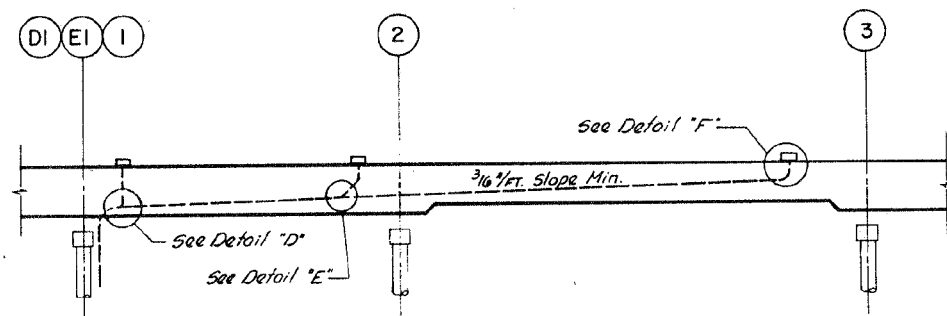


AT SPAN 4 (STR. #1110)

AT SPAN 6 (STR. #1110)

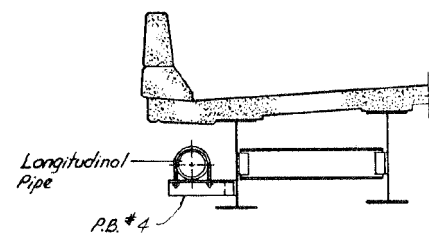


AT SPANS 1 & 2 (STR. #1110)

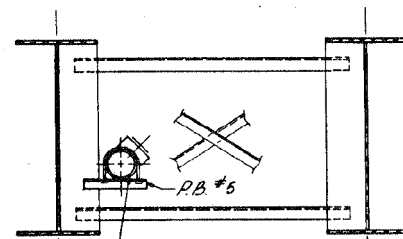


AT SPANS DI & EI (STR. #1110)

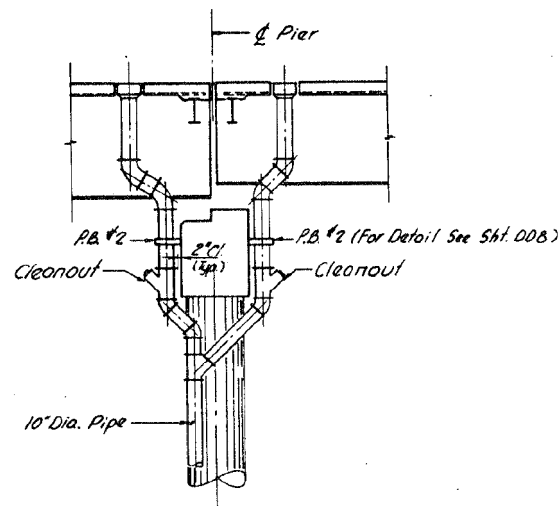
LONGITUDINAL RUN ELEVATION



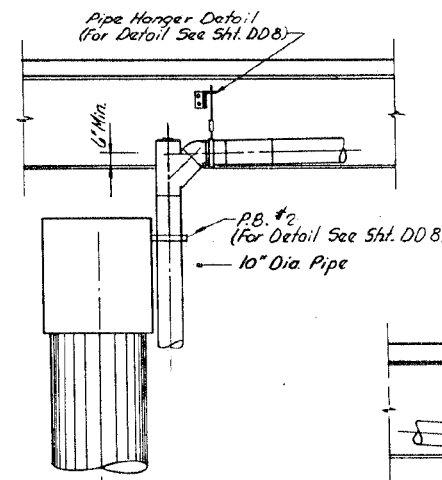
SECTION THRU DIAPHRAGM



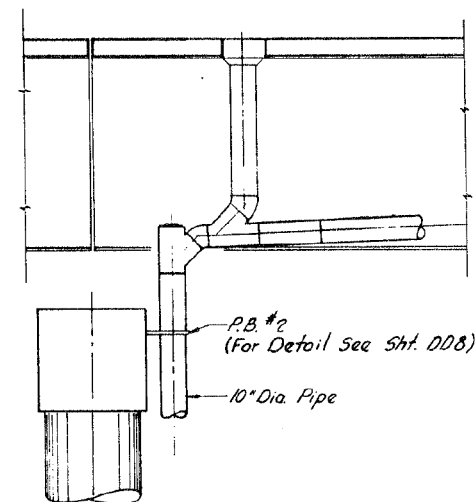
SECTION THRU CROSS FRAME



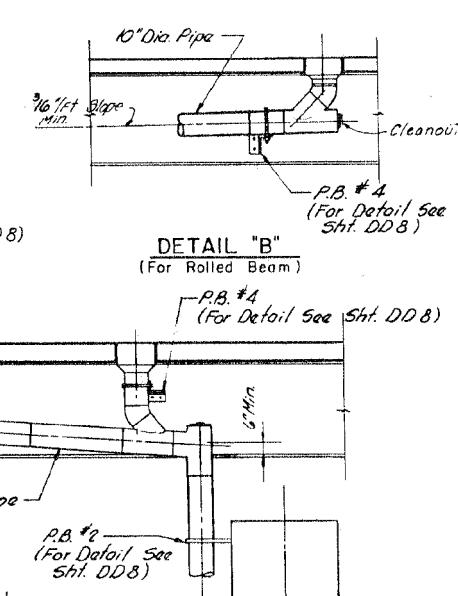
DETAIL "G"



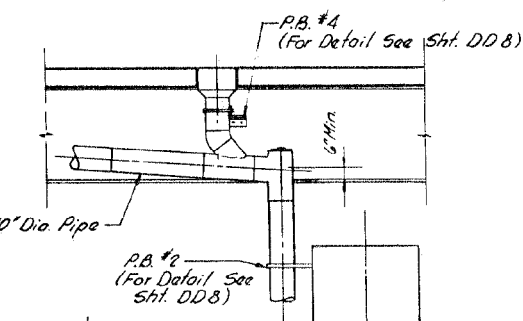
DETAIL "A"



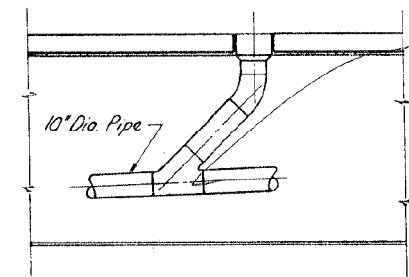
DETAIL "D"



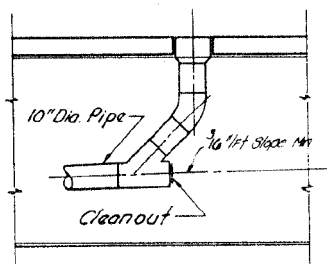
DETAIL "B"  
(For Rolled Beam)



DETAIL "C"



DETAIL "E"



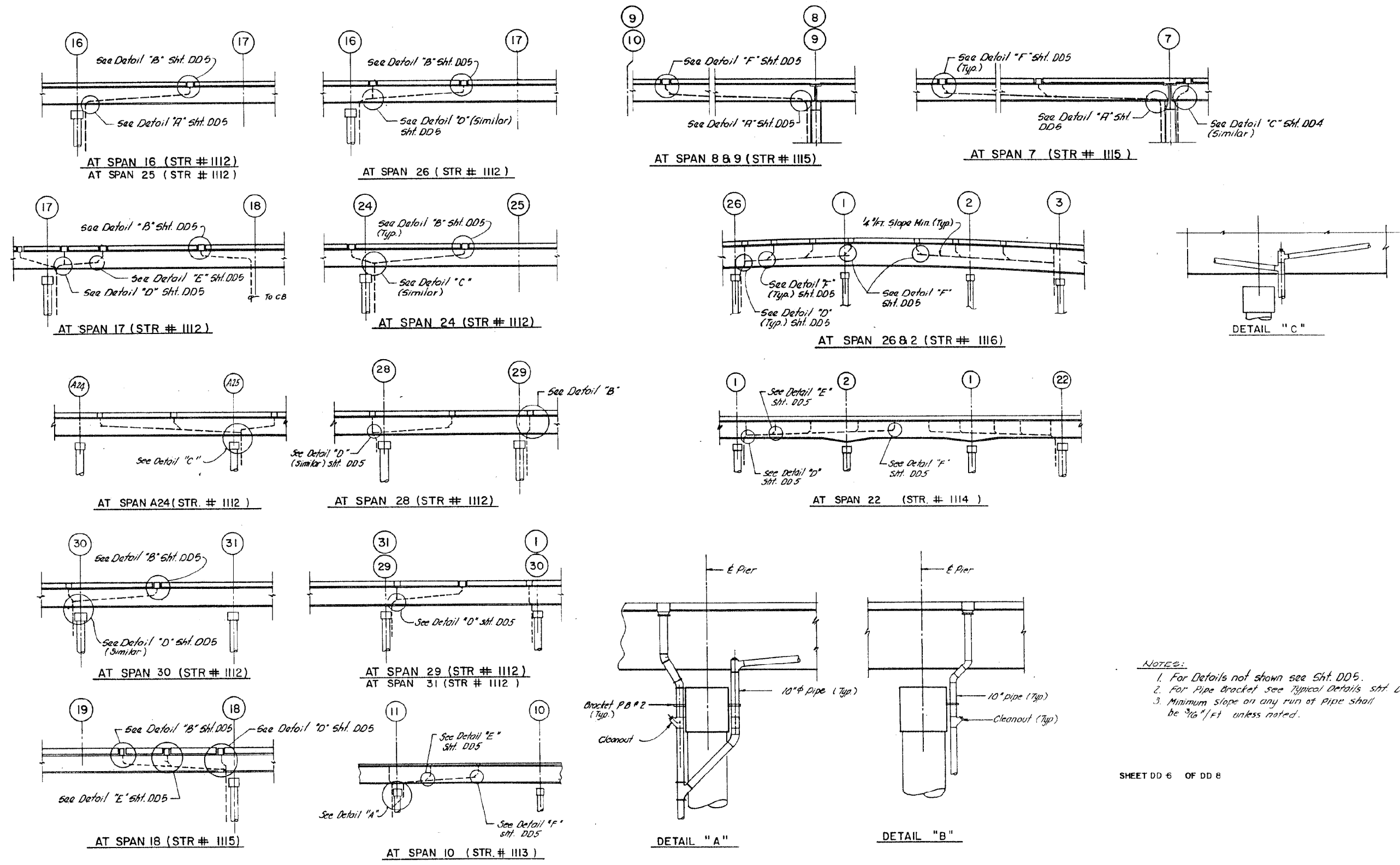
DETAIL "F"  
(For Welded R. Girder)

NOTES:  
For Pipe Bracket not shown in Details, the Contractor may use Pipe Bracket as shown in Sht. DD8, or any other Pipe Bracket subject to Approval by Engineer.  
All Longitudinal Runs of piping to be supported at Max. Spacing 8'-0" o/c.

SHEET DD 5 OF DD 8

FOR INFORMATION ONLY

|            |                                    |        |                                                   |                                                       |                           |           |        |              |           |
|------------|------------------------------------|--------|---------------------------------------------------|-------------------------------------------------------|---------------------------|-----------|--------|--------------|-----------|
| DESIGNED - | EXAMINED -                         | DATE - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATIONS 4 TO 13<br>LONGITUDINAL RUN AND DETAILS - I | F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| CHECKED -  | ENGINEER OF STRUCTURAL SERVICES    |        |                                                   |                                                       | VAR.                      | 2016-091T | COOK   | 69           | 22        |
| DRAWN -    | PASSED -                           | REVISD |                                                   |                                                       | CONTRACT NO. 62093        |           |        |              |           |
| CHECKED -  | ENGINEER OF BRIDGES AND STRUCTURES | REVISD |                                                   |                                                       | ILLINOIS FED. AID PROJECT |           |        |              |           |



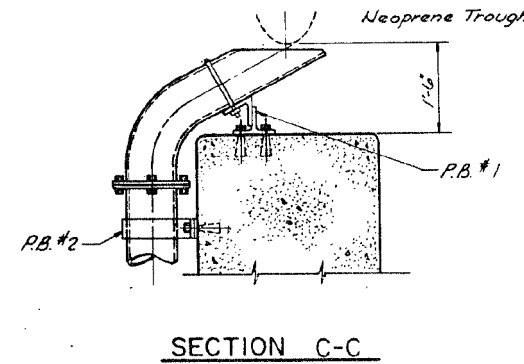
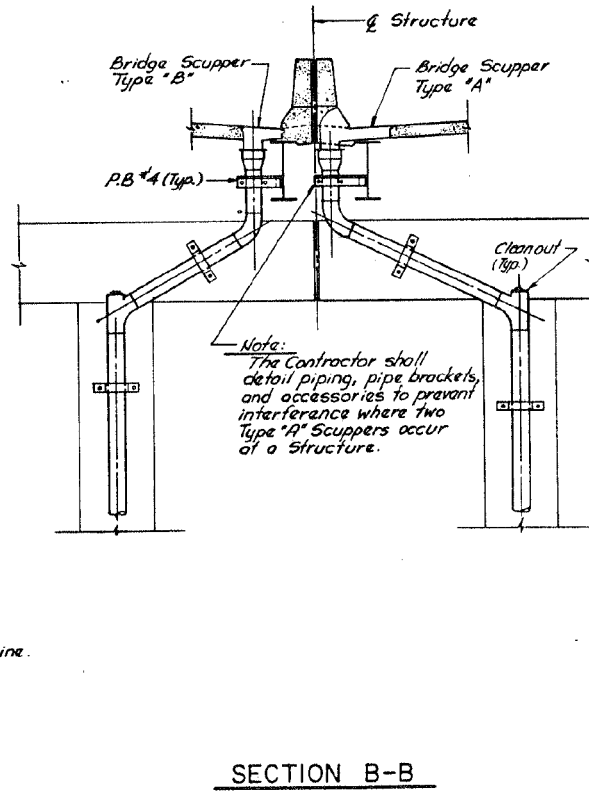
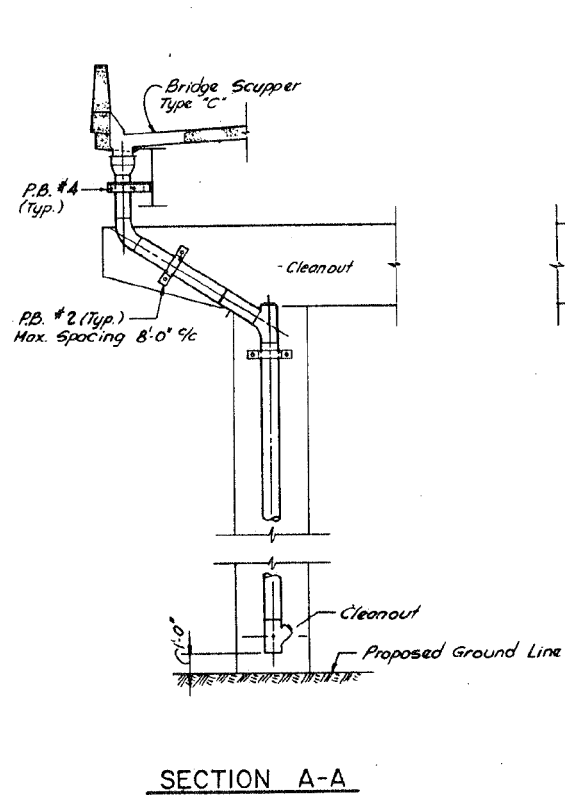
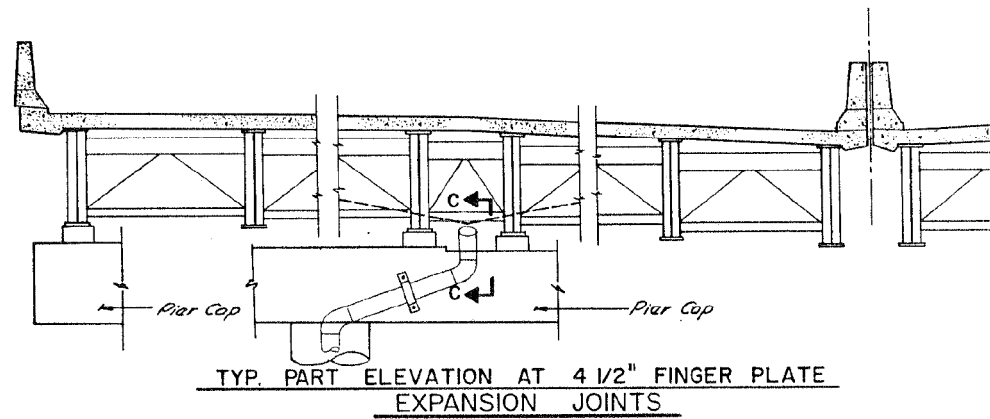
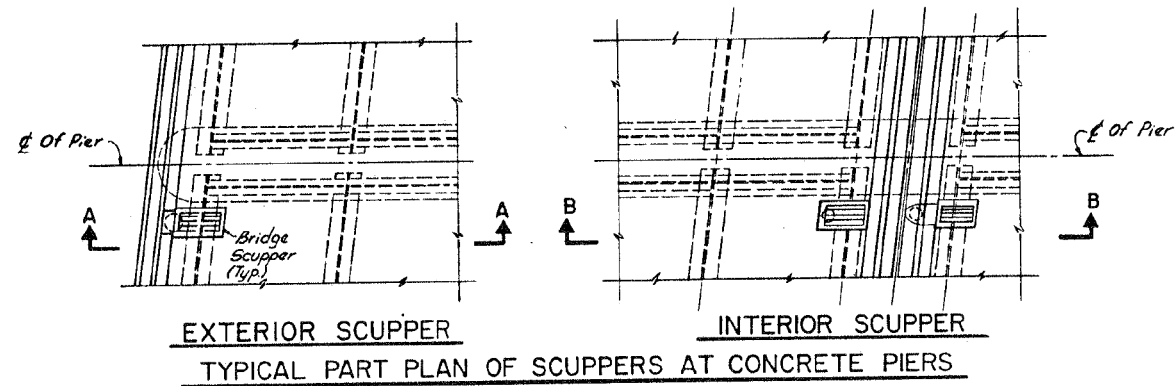
FOR INFORMATION ONLY

- NOTES:
1. For Details not shown see Sht. DD5.
  2. For Pipe Bracket see Typical Details Sht. DD8.
  3. Minimum Slope on any run of pipe shall be  $\frac{3}{16}$ "/ft unless noted.

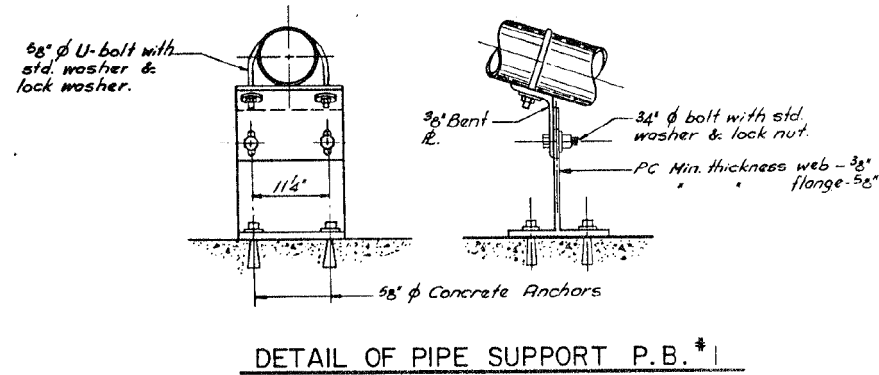
SHEET DD 6 OF DD 8

|                         |                                    |         |                                                   |                                                        |                           |           |        |              |           |
|-------------------------|------------------------------------|---------|---------------------------------------------------|--------------------------------------------------------|---------------------------|-----------|--------|--------------|-----------|
| DESIGNED -              | EXAMINED                           | DATE -  | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATIONS 4 TO 13<br>LONGITUDINAL RUN AND DETAILS – II | F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| CHECKED -               | ENGINEER OF STRUCTURAL SERVICES    |         |                                                   |                                                        | VAR.                      | 2016-091T | COOK   | 69           | 23        |
| DRAWN -                 | PASSED                             | REVISED |                                                   |                                                        | CONTRACT NO. 62D93        |           |        |              |           |
| CHECKED -               | ENGINEER OF BRIDGES AND STRUCTURES | REVISED |                                                   |                                                        | ILLINOIS FED. AID PROJECT |           |        |              |           |
| SHEET NO. 4 OF 6 SHEETS |                                    |         |                                                   |                                                        |                           |           |        |              |           |





- Notes:**
- 1) Bridge Drainage Piping and fittings shall be Reinforced Fiberglass (Unless Noted), See Special Provisions.
  - 2) See Drainage Contract Plans for location of catch basins, manholes, storm sewers etc.
  - 3) Cleanouts - 10" Tee with blind flange or 5" Plug.
  - 4) All elbows shall be long radius.
  - 5) For Pipe Bracket (P.B.) Details not shown see Sht. DD8.



SHEET DD 7 OF DD8

FOR INFORMATION ONLY

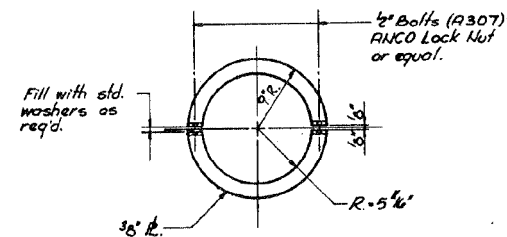
|            |                                    |         |
|------------|------------------------------------|---------|
| DESIGNED - | EXAMINED                           | DATE -  |
| CHECKED -  | ENGINEER OF STRUCTURAL SERVICES    |         |
| DRAWN -    | PASSED                             | REVISED |
| CHECKED -  | ENGINEER OF BRIDGES AND STRUCTURES | REVISED |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

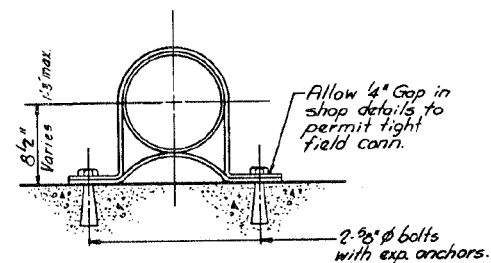
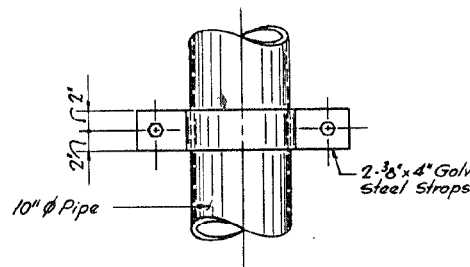
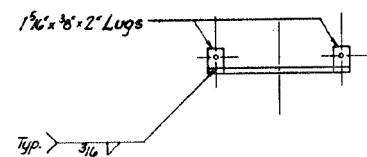
LOCATIONS 4 TO 13  
TYPICAL DETAILS AND SECTIONS

SHEET NO. 5 OF 6 SHEETS

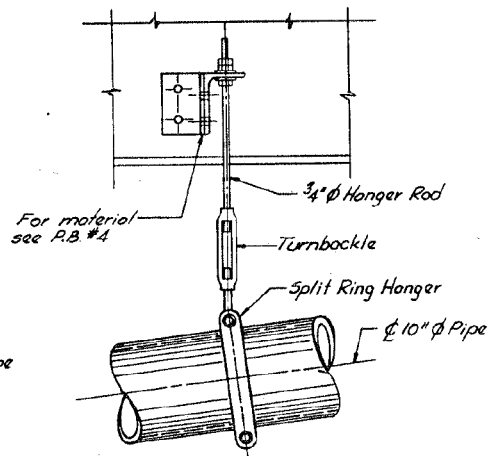
| F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------|-----------|
| VAR.                      | 2016-091T | COOK   | 69           | 24        |
| CONTRACT NO. 62093        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |



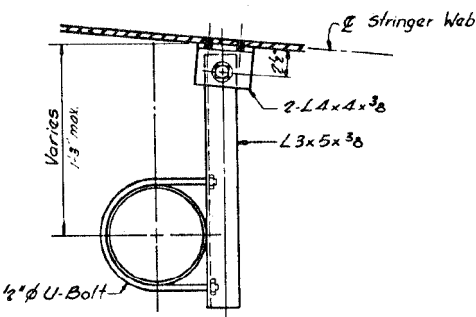
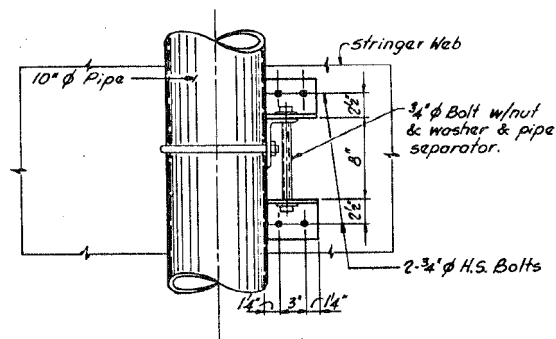
**CAP PLATE DETAIL**  
Scale: 1 1/2" = 1'-0"



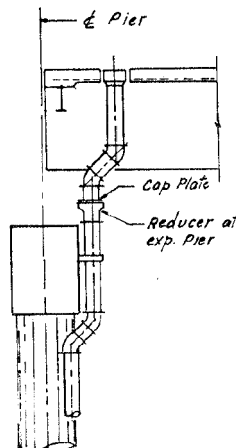
**BRACKET P.B. #2**  
(TO CONCRETE)



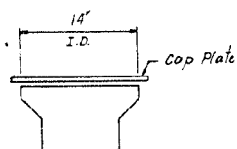
**PIPE HANGER DETAIL**



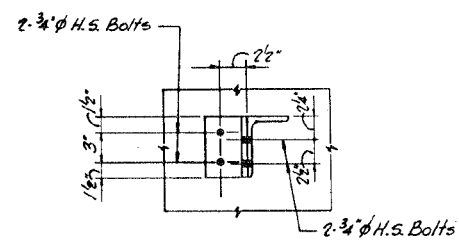
**BRACKET P.B. #3**  
(FOR EXPANSION SEE NOTE 1.)



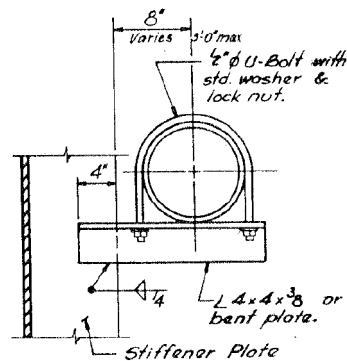
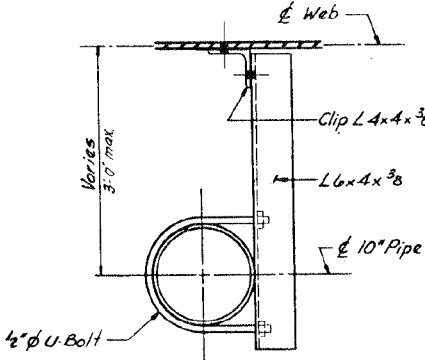
**TYPICAL EXPANSION PIER**



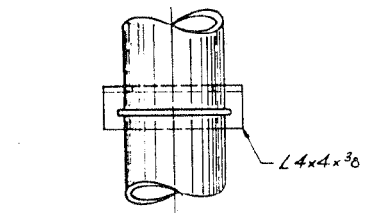
**REDUCER**



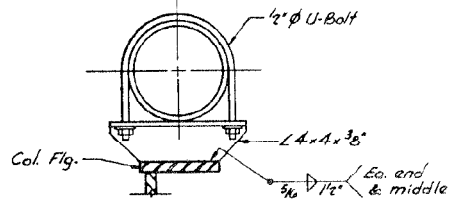
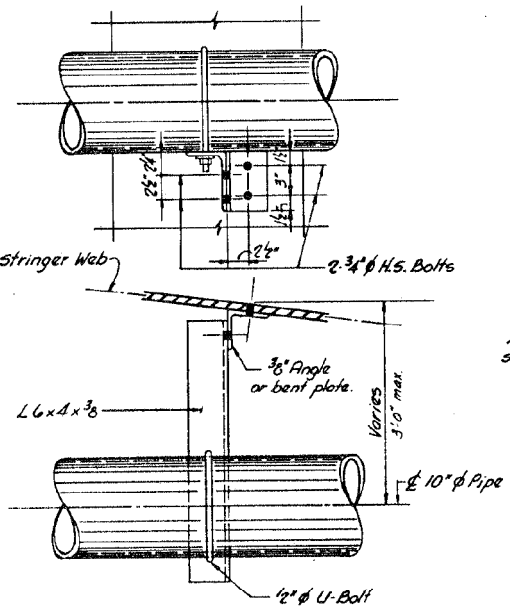
**BRACKET P.B. #4**  
(TO WEB)



**BRACKET P.B. #5**  
(TO STIFFENER)



**BRACKET P.B. #6**



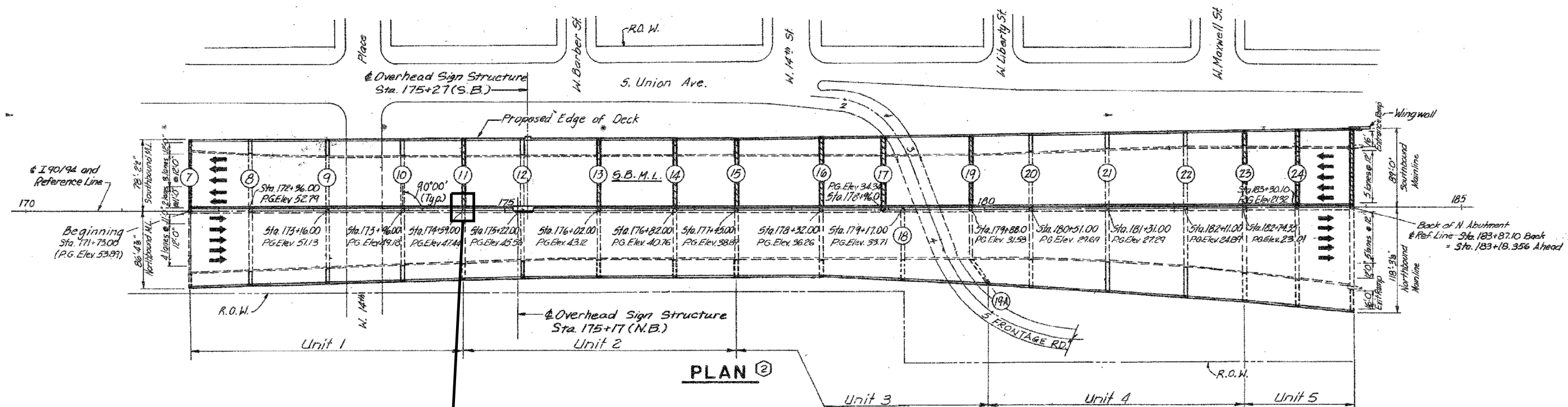
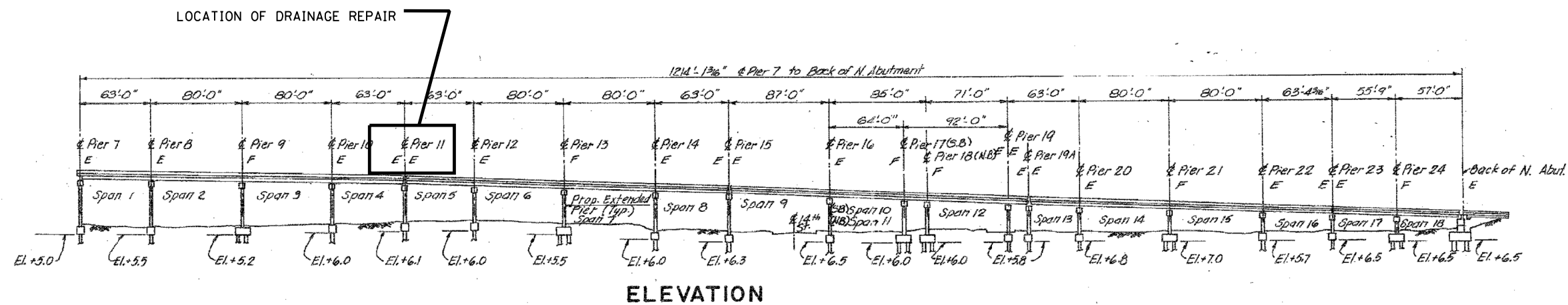
**BRACKET P.B. #7**

**Note:**  
1.) Adjacent to Preformed Expansion Joints when combining two bridge scuppers to one manhole or catch basin.

SHEET DD B OF DD B

FOR INFORMATION ONLY

|            |                                    |          |                                                   |                                      |                         |                           |           |        |              |           |
|------------|------------------------------------|----------|---------------------------------------------------|--------------------------------------|-------------------------|---------------------------|-----------|--------|--------------|-----------|
| DESIGNED - | EXAMINED -                         | DATE -   | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATIONS 4 TO 13<br>TYPICAL DETAILS | SHEET NO. 6 OF 6 SHEETS | F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| CHECKED -  | ENGINEER OF STRUCTURAL SERVICES    |          |                                                   |                                      |                         | VAR.                      | 2016-091T | COOK   | 69           | 25        |
| DRAWN -    | PASSED -                           | REVISD - |                                                   |                                      |                         | CONTRACT NO. 62D93        |           |        |              |           |
| CHECKED -  | ENGINEER OF BRIDGES AND STRUCTURES | REVISD - |                                                   |                                      |                         | ILLINOIS FED. AID PROJECT |           |        |              |           |



DAMAGED DRAINAGE PIPE BELOW DECK TO BE REPLACED AND RECONNECTED (6 LF)  
SEE PHOTO 1 ON SHEET 2 OF 2 OF LOCATION 4 (SN 016-0137) SHEETS.

BILL OF MATERIAL (S.N. 016-0137)  
I-90/94 OVER MAXWELL TO 15TH ST.

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 6        |



SEE PHOTO 2 FOR CLOSE UP OF DAMAGED DRAINAGE  
PIPE TO BE REPLACED AND RECONNECTED

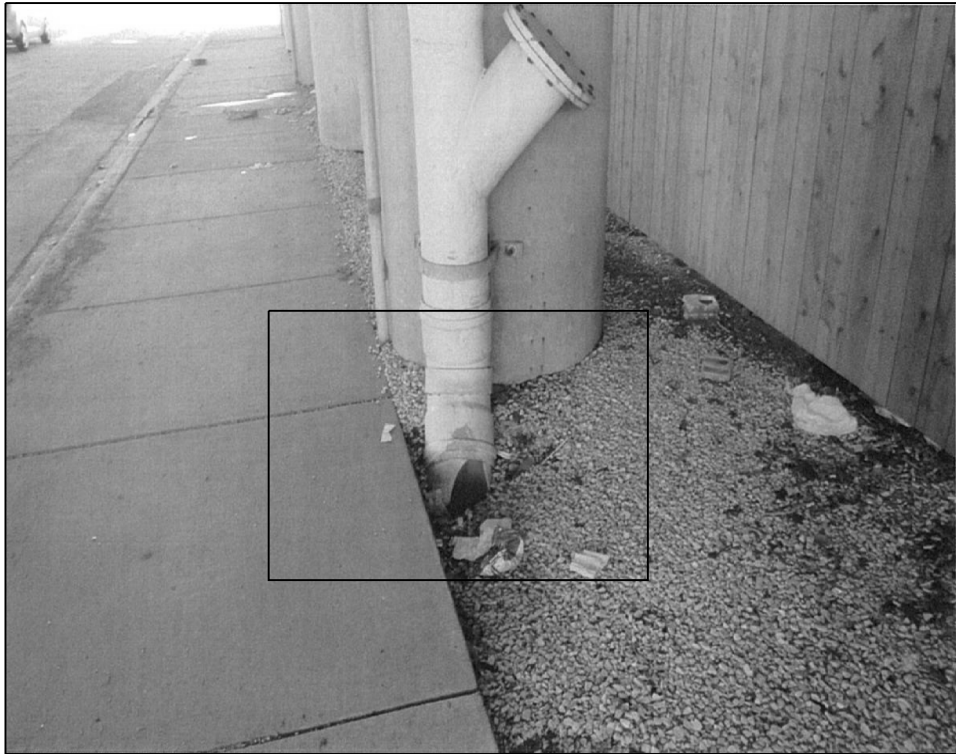
016-0137 - PHOTO #1  
SOUTH FACE OF PIER 11



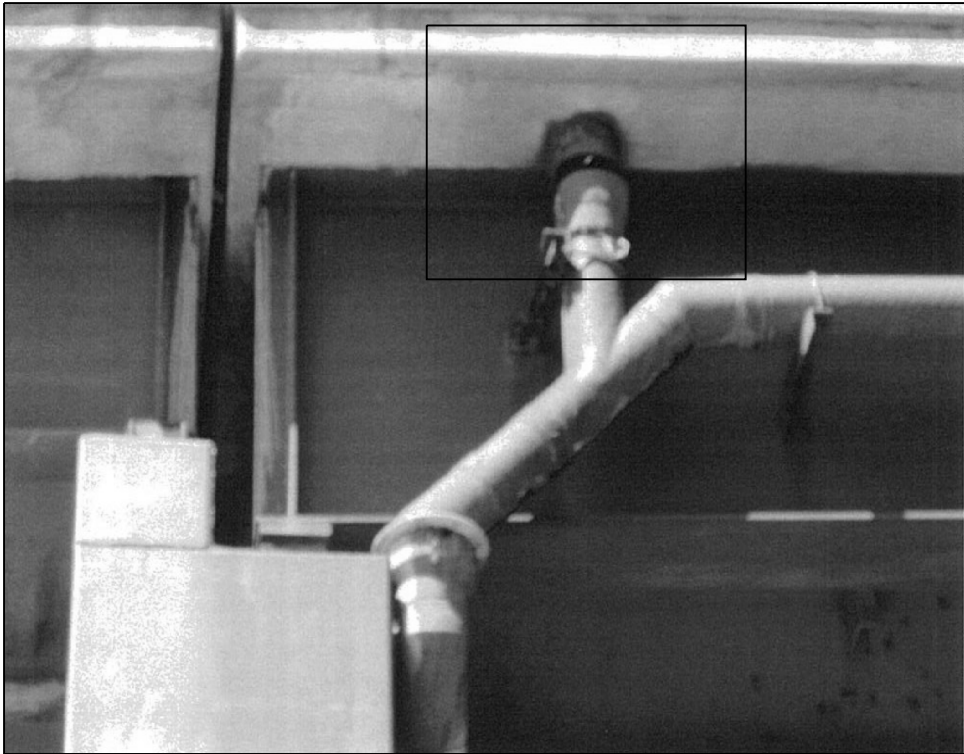
016-0137 - PHOTO #2  
SOUTH FACE OF PIER 11



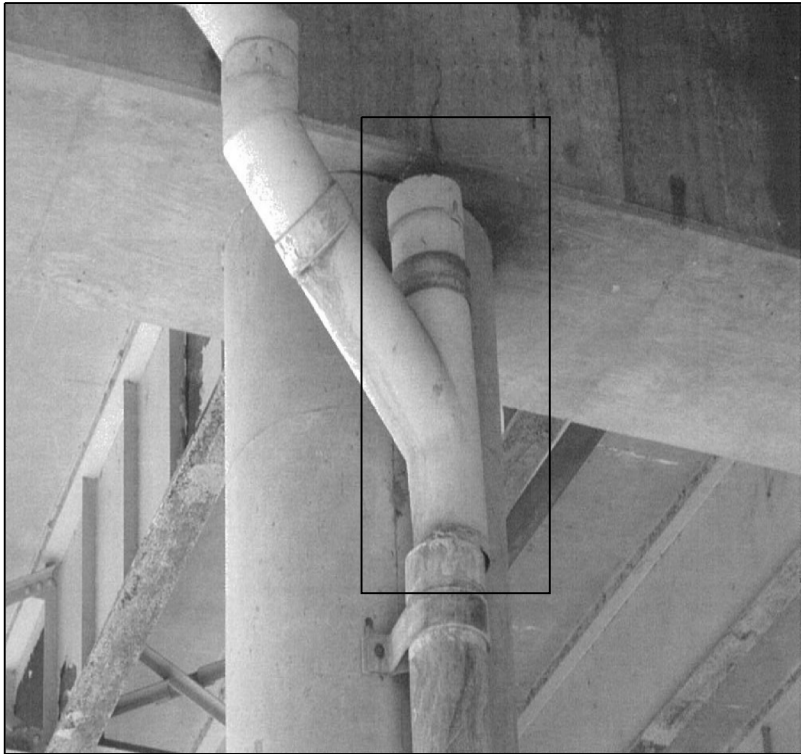




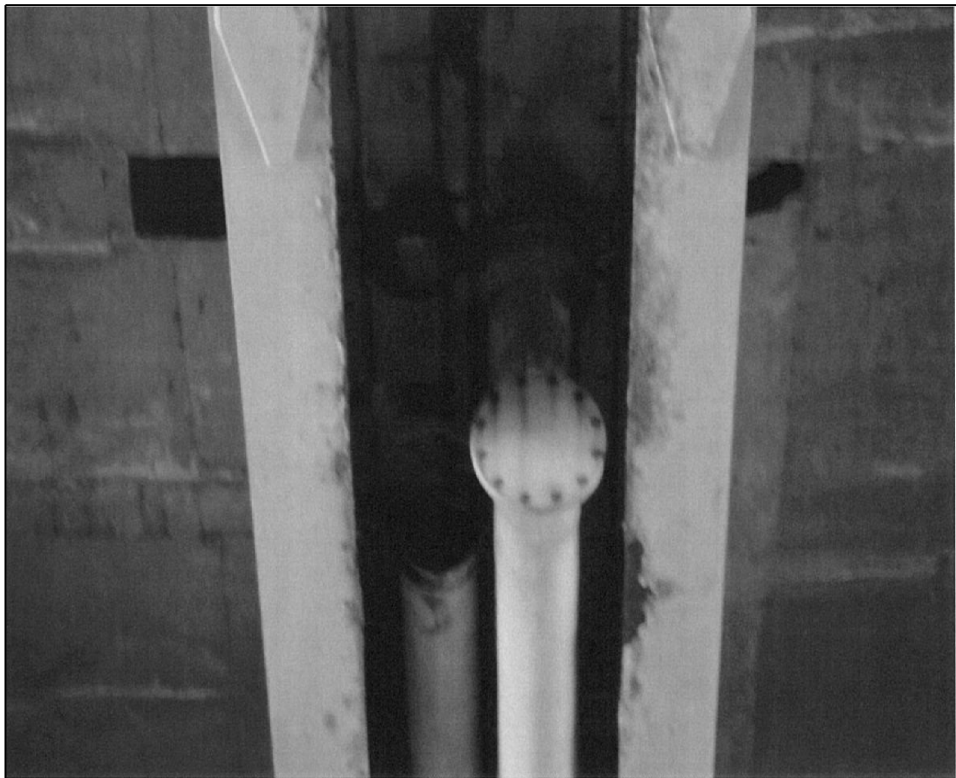
016-1110 PHOTO #1  
PIER 1 \_ LOOKING WEST



016-1110 PHOTO #2  
PIER 1 \_ EAST FASCIA LOOKING WEST



016-1110 PHOTO #3  
PIER 1 \_ NORTH FACE



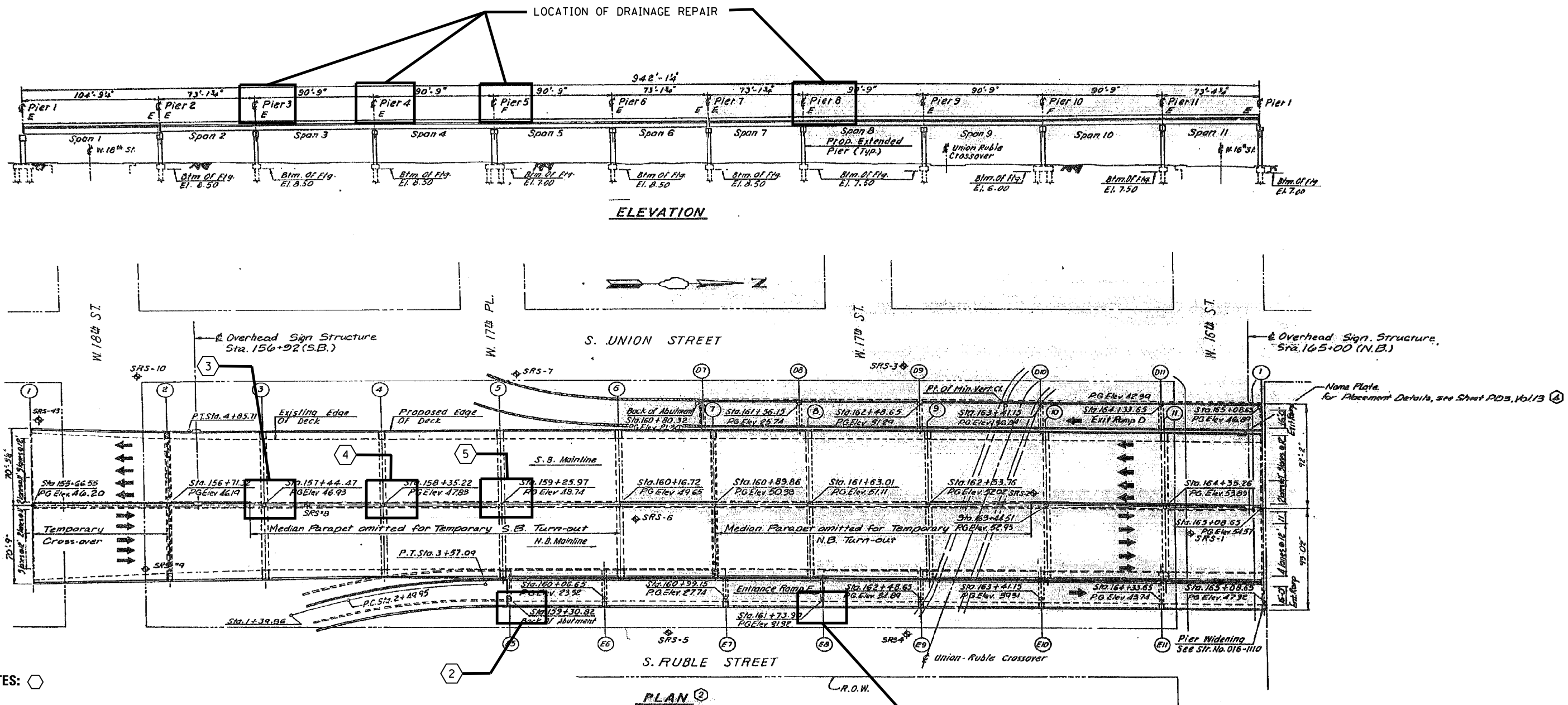
016-1110 PHOTO #4  
SPAN 5 \_ LOOKING SOUTH



016-1110 PHOTO #5  
SPAN 5 \_ LOOKING NORTH

SOUTH FACE OF PIER 6

|                                                                                                                                     |                     |                              |           |                                                   |                                              |         |      |                    |           |         |                           |              |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|-----------|---------------------------------------------------|----------------------------------------------|---------|------|--------------------|-----------|---------|---------------------------|--------------|
| FILE NAME =                                                                                                                         | USER NAME = dahharr | DESIGNED -                   | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 5 (SN 016-1110)<br>REPAIR LOCATIONS |         |      | F.A.<br>RTE.       | SECTION   | COUNTY  | TOTAL<br>SHEETS           | SHEET<br>NO. |
| pw:\IL\084EBID\INTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI1481\Drawings\Design\DI14817-sht-LOCATIONS.dwg |                     |                              |           |                                                   |                                              |         |      | VAR.               | 2016-091T | COOK    | 69                        | 29           |
| Default                                                                                                                             |                     | PLOT SCALE = 100.0000' / in. | CHECKED - |                                                   |                                              |         |      | CONTRACT NO. 62D93 |           |         |                           |              |
|                                                                                                                                     |                     | PLOT DATE = 12/21/2016       | DATE -    |                                                   | SCALE:                                       | SHEET 2 | OF 2 | SHEETS             | STA.      | TO STA. | ILLINOIS FED. AID PROJECT |              |



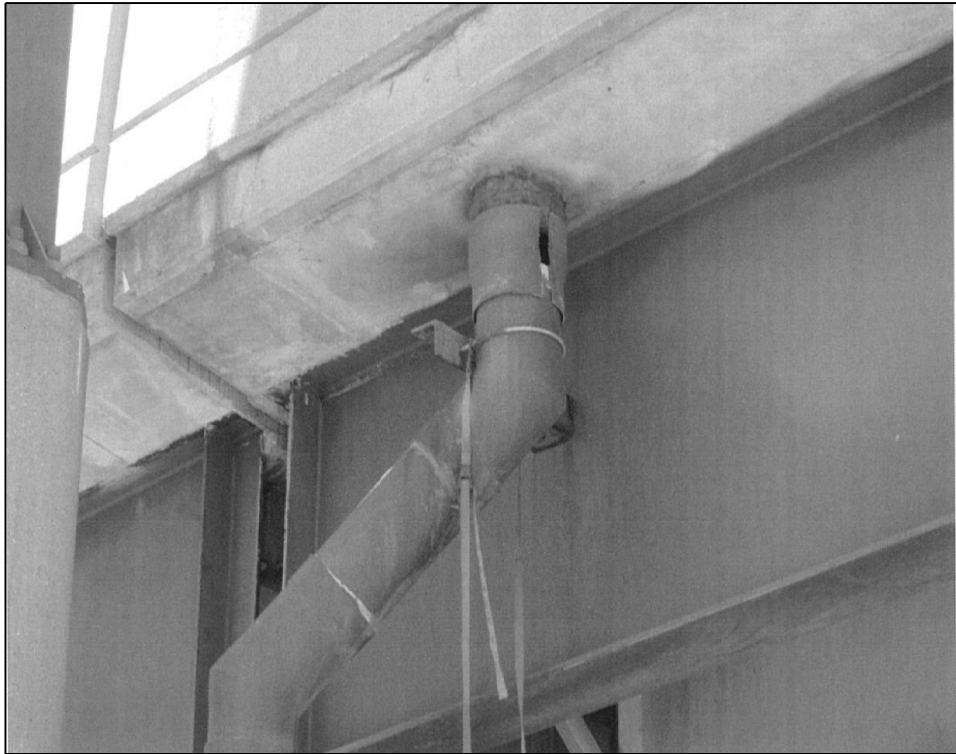
NOTES:

- 2.0 LF OF DRAINAGE SYSTEM REPAIRS WILL BE DONE AT EAST FASCIA AT PIER E8 TO REPLACE DAMAGED CONNECTION BETWEEN DRAINAGE PIPE AND SCUPPER. SEE PHOTO 1 ON SHEET 2 OF 2 OF LOCATION 6 (SN 016-1111)
- 8.0 LF OF DRAINAG SYSTEM REPAIRS WILL BE DONE AT RAMP E SOUTH ABUTMENT AT THE EAST END. SEE PHOTO 2 ON SHEET 2 OF 2 OF LOCATION 6 (SN 016-1111)
- 20.0 LF OF DRAINAGE SYSTM REPAIRS WILL BE DONE AT MAIN LINE PIER 3 TO REPLACE DAMAGED AND MISSING SECTION AND PROVIDE CONNECTION TO EXISTING DRAINAGE SYSTEM. SEE PHOTO 3 ON SHEET 2 OF 2 OF LOCATION 6 (SN 016-1111)
- 15.0 LF OF DRAINAGE SYSTEM REPAIRS WILL BE DONE AT MAIN LINE PIER 4 TO REPLACE DAMAGED SECTION AND PROVIDE CONNECTION TO EXISTING DRAINAGE SYSTEM. SEE PHOTO 4 ON SHEET 2 OF 2 OF LCOATION 6 (SN 016-1111)
- 6.0 LF OF DRAINAGE SYSTEM REPAIRS WILL BE DONE AT MAIN LINE PIER 5 TO REPLACE DAMAGED AND MISSING SECTION AND PROVIDE CONNECTION TO EXISTING DRAINAGE SYSTE. SEE PHOTO 5 ON SHEET 2 OF 2 OF LOCATION 6 (SN 016-1111)

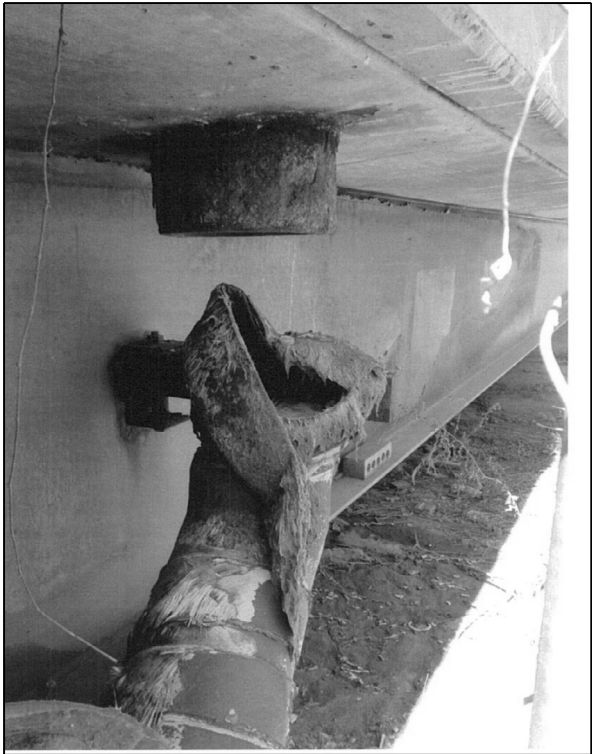
BILL OF MATERIAL (S.N. 016-1111)  
I-90/94 OVER 16TH TO 18TH ST.

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 51       |





016-1111 PHOTO #1  
PIER E8 \_ LOOKING SOUTH WEST



016-1111 PHOTO #2  
RAMP E S. ABUTMENT \_ E. FASCIA – LOOKING NORTH WEST



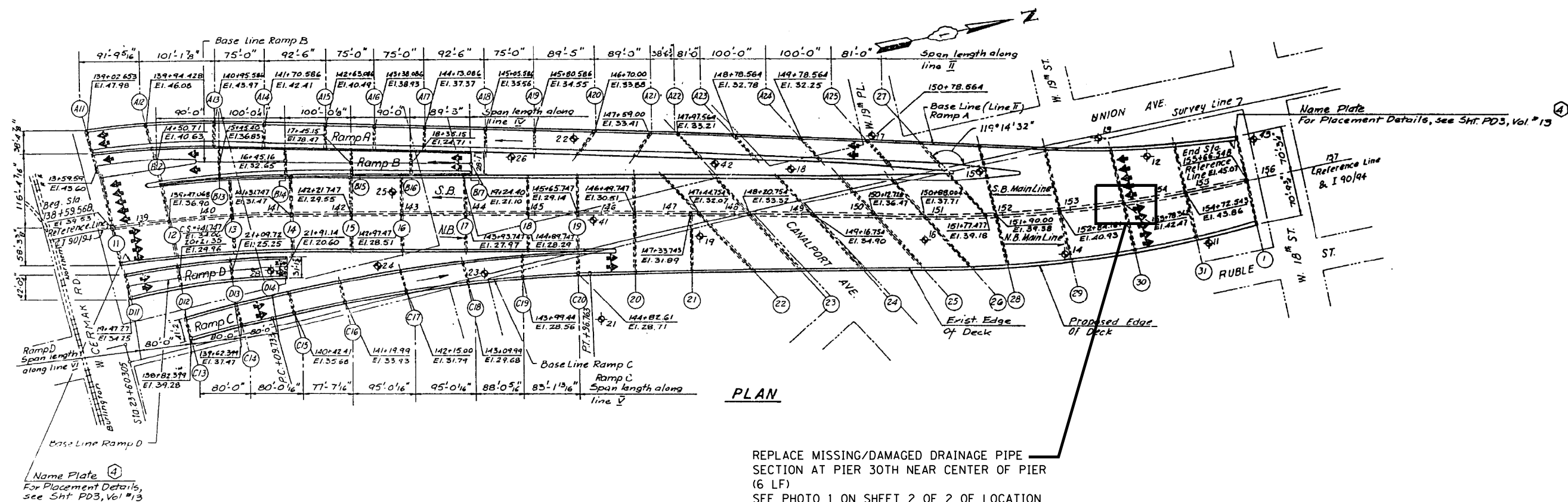
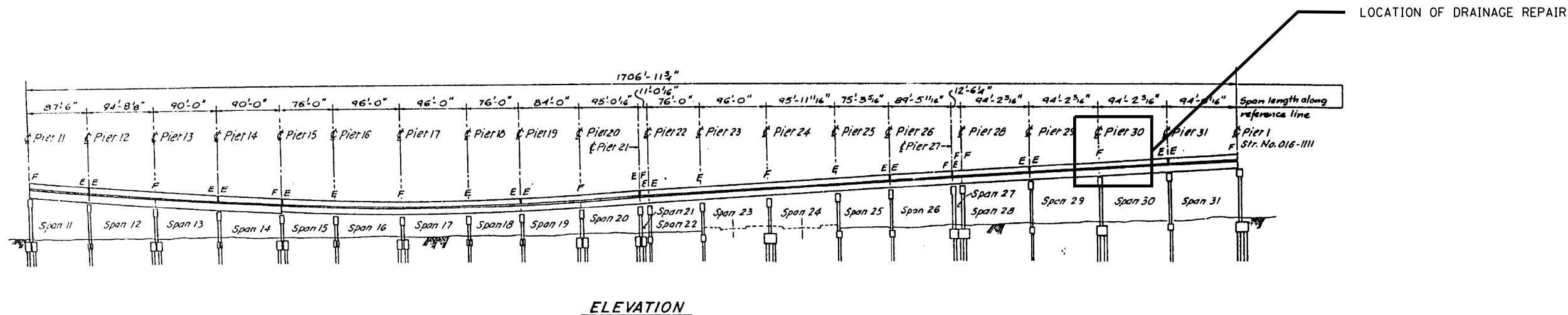
016-1111 PHOTO #3  
MAIN LINE PIER 3 \_ NORTH FACE



016-1111 PHOTO #4  
MAIN LINE PIER 4 \_ NORTH FACE



016-1111 PHOTO #5  
MAIN LINE PIER 5 \_ NORTH FACE



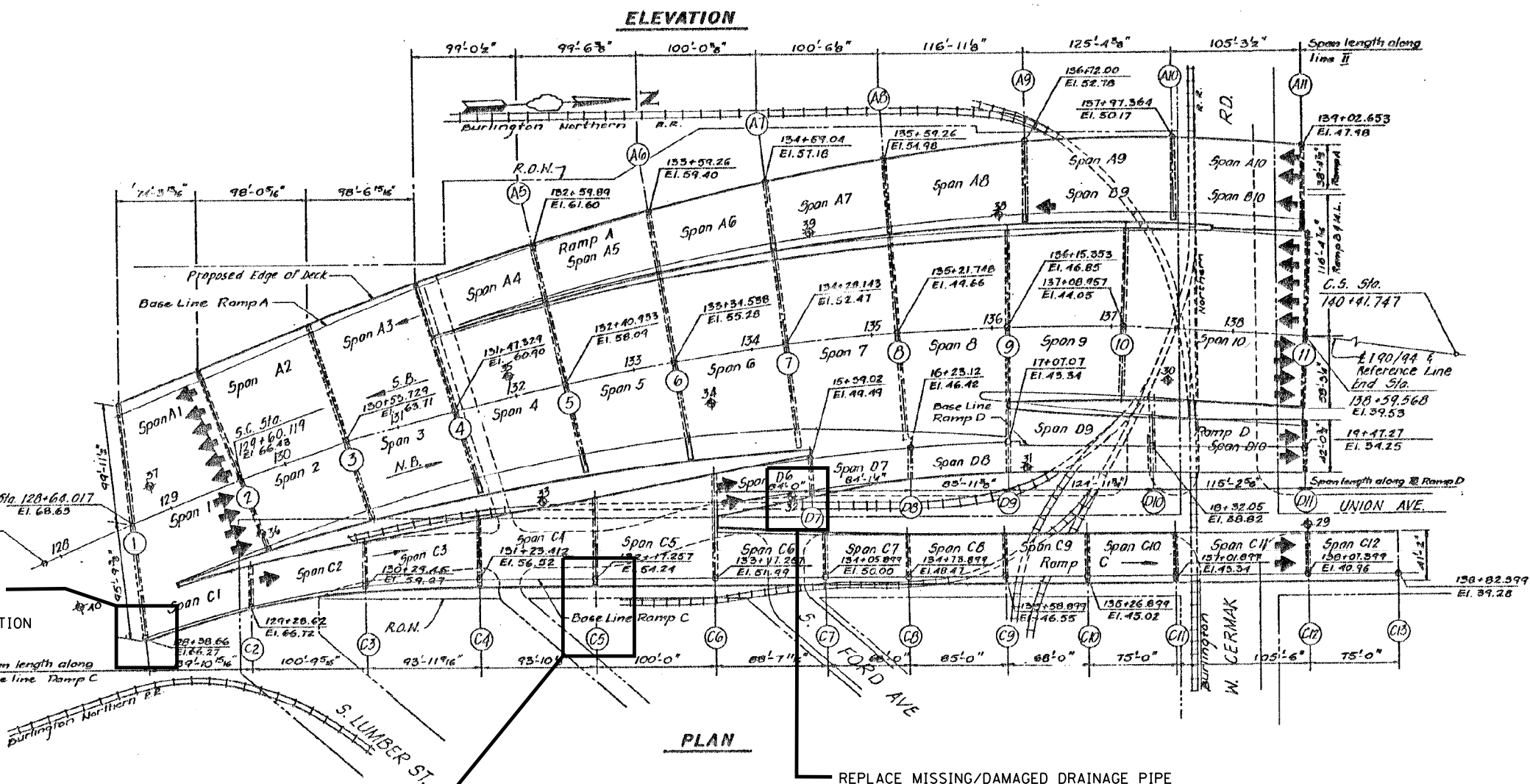
REPLACE MISSING/DAMAGED DRAINAGE PIPE —  
SECTION AT PIER 30TH NEAR CENTER OF PIER  
(6 LF)  
SEE PHOTO 1 ON SHEET 2 OF 2 OF LOCATION  
7 (SN 016-1112) SHEETS

BILL OF MATERIAL (S.N. 016-1112)  
I-90/94 OVER 18TH ST TO 22ND ST.

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 6        |
|                                |      |          |



016-1112 PHOTO #1  
MAIN LINE PIER 30 \_ NORTH FACE



REPLACE MISSING/DAMAGED DRAINAGE PIPE  
SECTION AT PIER D7, EAST END, (8 LF)  
SEE PHOTO 1 ON SHEET 2 OF 2 OF LOCATION  
8 (SN Q16-1113) SHEETS

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 16       |
|                                |      |          |

|                                                                                                                               |                              |            |           |                                                               |                                                        |                     |      |         |                           |         |        |              |           |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|-----------|---------------------------------------------------------------|--------------------------------------------------------|---------------------|------|---------|---------------------------|---------|--------|--------------|-----------|
| FILE NAME =                                                                                                                   | USER NAME = dahnhr           | DESIGNED - | REVISED - | <div>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</div> | LOCATION 8 (SN 016-1113)<br>GENERAL PLAN AND ELEVATION |                     |      |         | F.A. RTE.                 | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw\N\084EBID\INTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\DI1481\Drawn to Design\DI1481-sht-LOCATIONS - |                              | DRAWN -    | REVISED - |                                                               | VAR.                                                   | 2016-091T           | COOK | 69      | 34                        |         |        |              |           |
|                                                                                                                               | PLOT SCALE = 100.0000' / in. | CHECKED -  | REVISED - |                                                               | CONTRACT NO. 62D93                                     |                     |      |         |                           |         |        |              |           |
| Default                                                                                                                       | PLOT DATE = 12/21/2016       | DATE -     | REVISED - |                                                               | SCALE:                                                 | SHEET 1 OF 2 SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT |         |        |              |           |





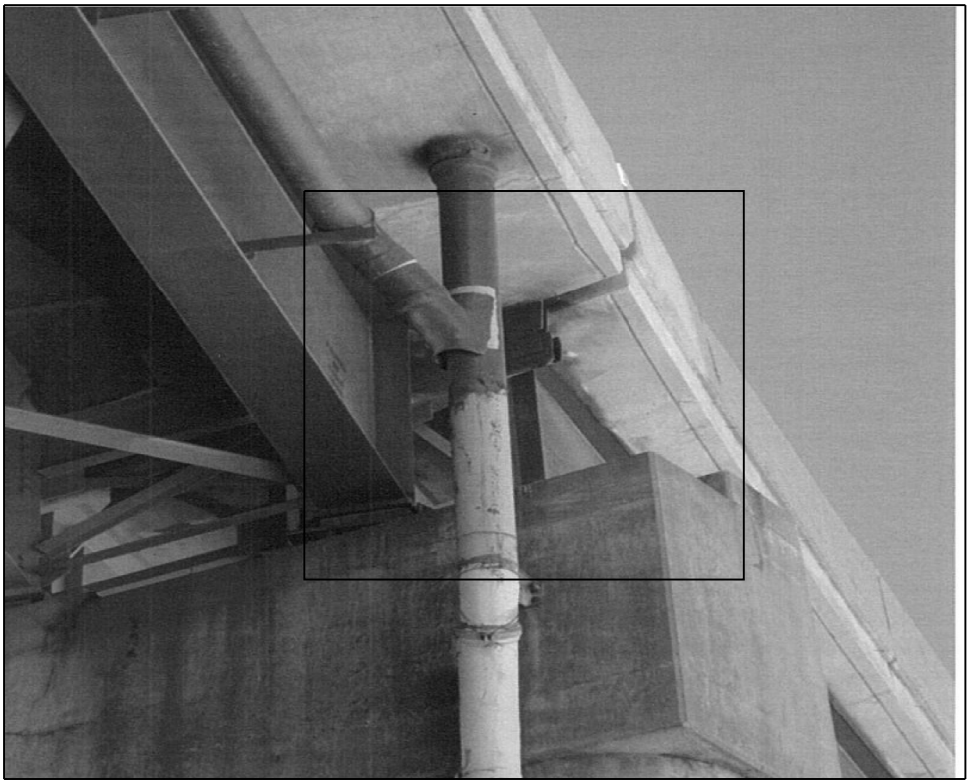
016-1113 PHOTO #1  
PIER D7 \_ EAST END



016-1113 PHOTO #2  
PIER C5 \_ EAST END \_ SOUTH FACE

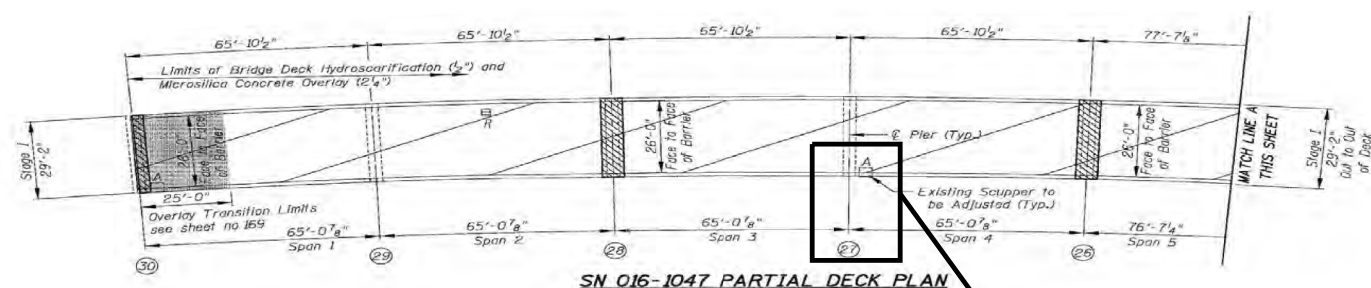
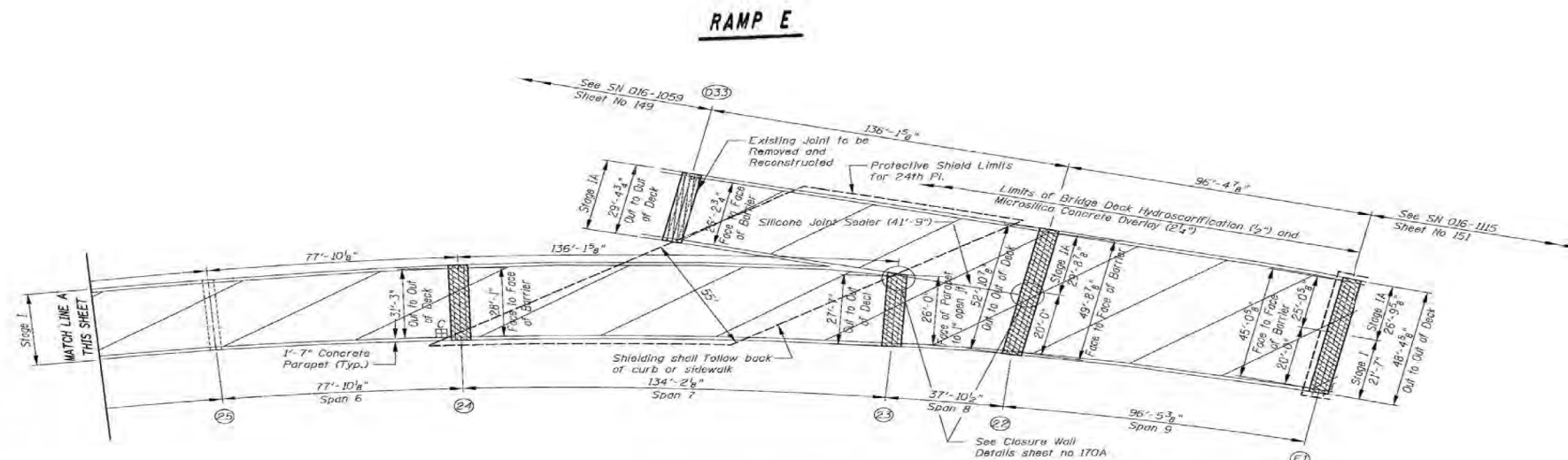
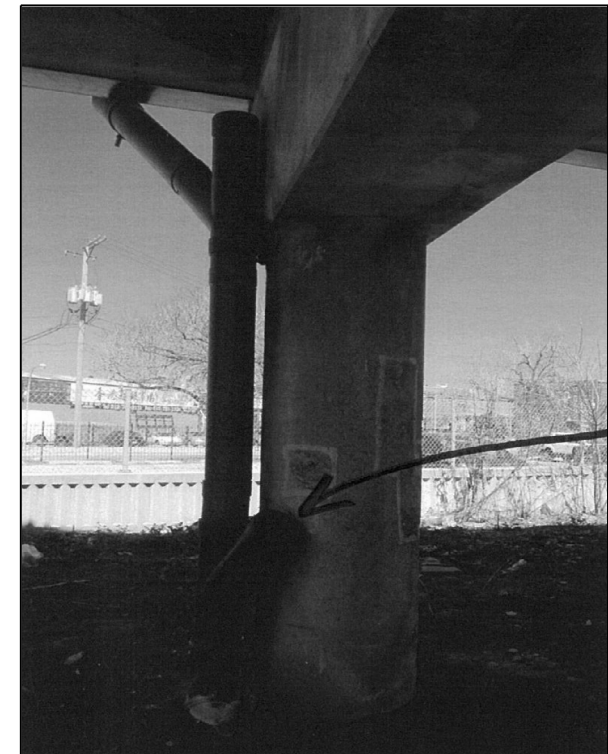
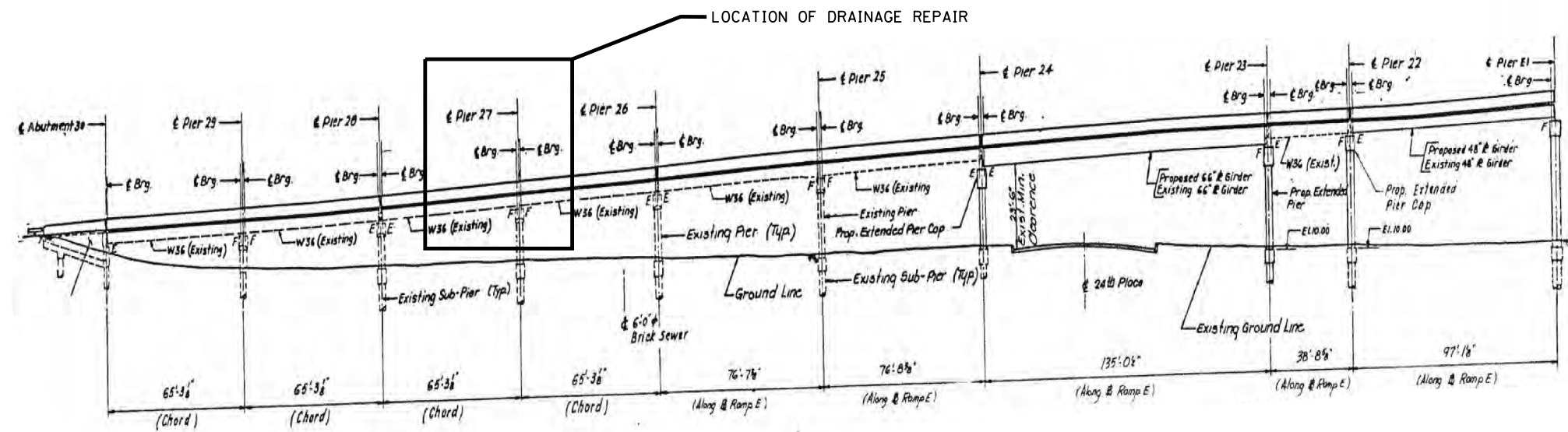


016-1113 PHOTO #3  
PIER 1 \_ EAST END \_ SOUTH FACE



016-1113 PHOTO #4  
PIER 1 \_ EAST END \_ SOUTH FACE

|                                                                                                                                 |                     |            |           |                                                   |  |                                              |      |                           |           |         |                 |              |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------|------------|-----------|---------------------------------------------------|--|----------------------------------------------|------|---------------------------|-----------|---------|-----------------|--------------|
| FILE NAME =                                                                                                                     | USER NAME = dahharr | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION |  | LOCATION 8 (SN 016-1113)<br>REPAIR LOCATIONS |      | F.A.<br>RTE.              | SECTION   | COUNTY  | TOTAL<br>SHEETS | SHEET<br>NO. |
| p:\111084EBID\INTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI1481\Drawings\Design\DI14817-sht-LOCATIONS |                     | REVISED -  | REVISED - |                                                   |  |                                              |      | VAR.                      | 2016-091T | COOK    | 69              | 35           |
| Default                                                                                                                         |                     | CHECKED -  | REVISED - |                                                   |  |                                              |      | CONTRACT NO. 62D93        |           |         |                 |              |
|                                                                                                                                 |                     | DATE -     | REVISED - |                                                   |  |                                              |      | ILLINOIS FED. AID PROJECT |           |         |                 |              |
|                                                                                                                                 |                     |            |           | SCALE:                                            |  | SHEET 2                                      | OF 2 | SHEETS                    | STA.      | TO STA. |                 |              |

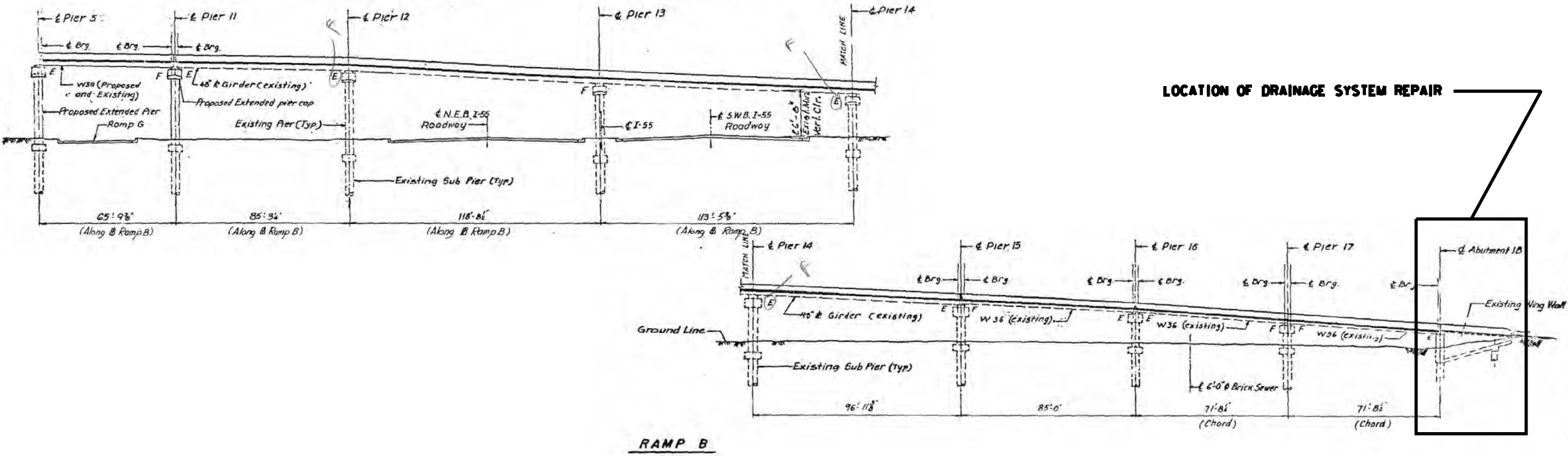


REPLACE DAMAGED CLEAN OUT CAP ON  
PIPE'S END. (1 LF)  
SEE PHOTOS 1 AND 2 THIS SHEET

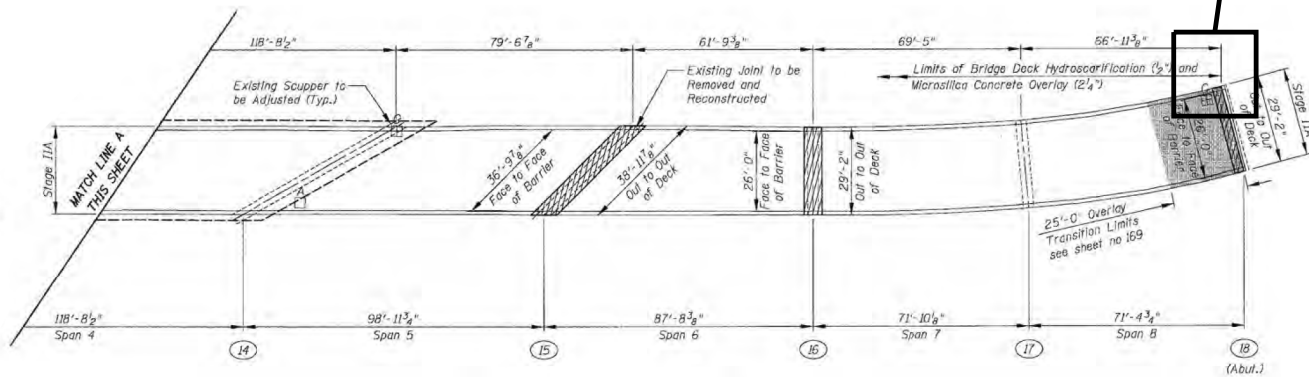
BILL OF MATERIAL (S.N. 016-1047)  
I-55 WB RAMP TO NB DAN RYAN OVER ARCHER AVE.

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 1        |
|                                |      |          |

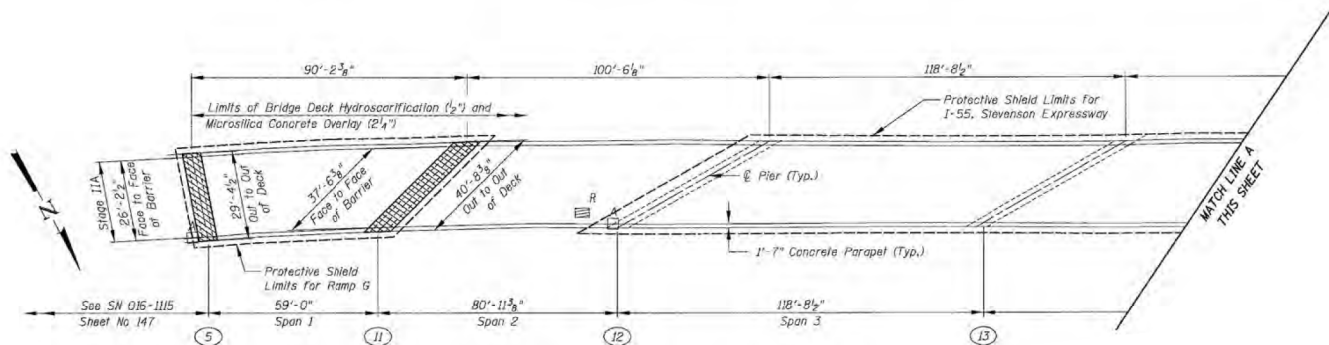
|                                                                                                                       |                               |            |           |                                                               |                                                        |           |      |        |      |           |                           |        |              |           |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------|------------|-----------|---------------------------------------------------------------|--------------------------------------------------------|-----------|------|--------|------|-----------|---------------------------|--------|--------------|-----------|
| FILE NAME =                                                                                                           | USER NAME = dahhanr           | DESIGNED - | REVISED - | <div>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</div> | LOCATION 9 (SN 016-1047)<br>GENERAL PLAN AND ELEVATION |           |      |        |      | F.A. RTE. | SECTION                   | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw\NL084EBIDINTEGallinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\DI14817\Design\DI14817-sht-LOCATIONS 4 |                               | CHECKED -  | REVISED - |                                                               | VAR.                                                   | 2016-091T | COOK | 69     | 36   |           |                           |        |              |           |
|                                                                                                                       | PLOT SCALE = 100.0000 ' / in. |            |           |                                                               | CONTRACT NO. 62D93                                     |           |      |        |      |           |                           |        |              |           |
| Default                                                                                                               | PLOT DATE = 12/21/2016        | DATE       | REVISED - |                                                               | SCALE:                                                 | SHEET 1   | OF 1 | SHEETS | STA. | TO STA.   | ILLINOIS FED. AID PROJECT |        |              |           |



REPLACE MISSING DAMAGED  
DRAINAGE PIPE SECTION (3 LF)  
SEE PHOTOS 1 THIS SHEET



SN 016-1140 PARTIAL DECK PLAN



SN 016-1140 PARTIAL DECK PLAN

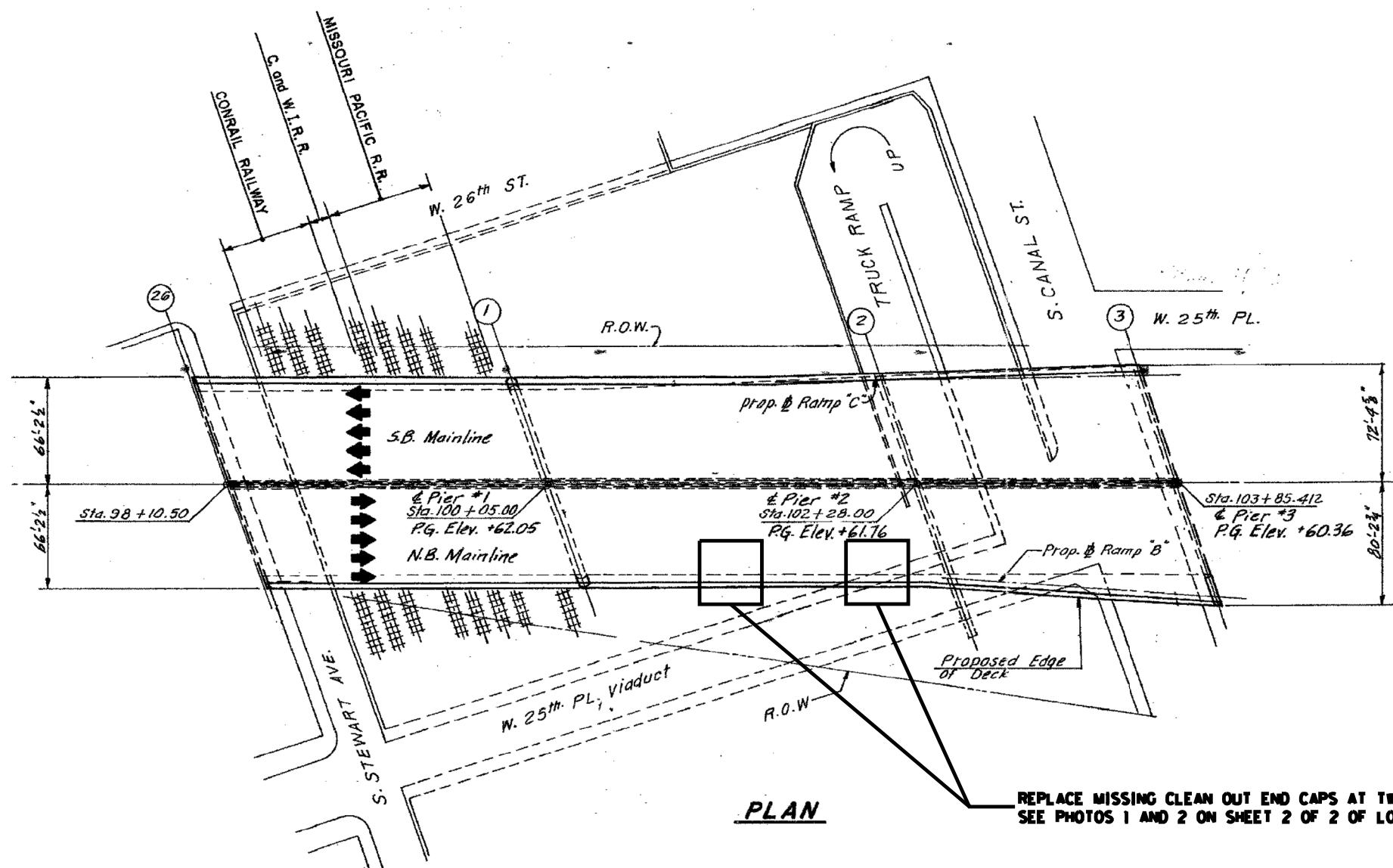
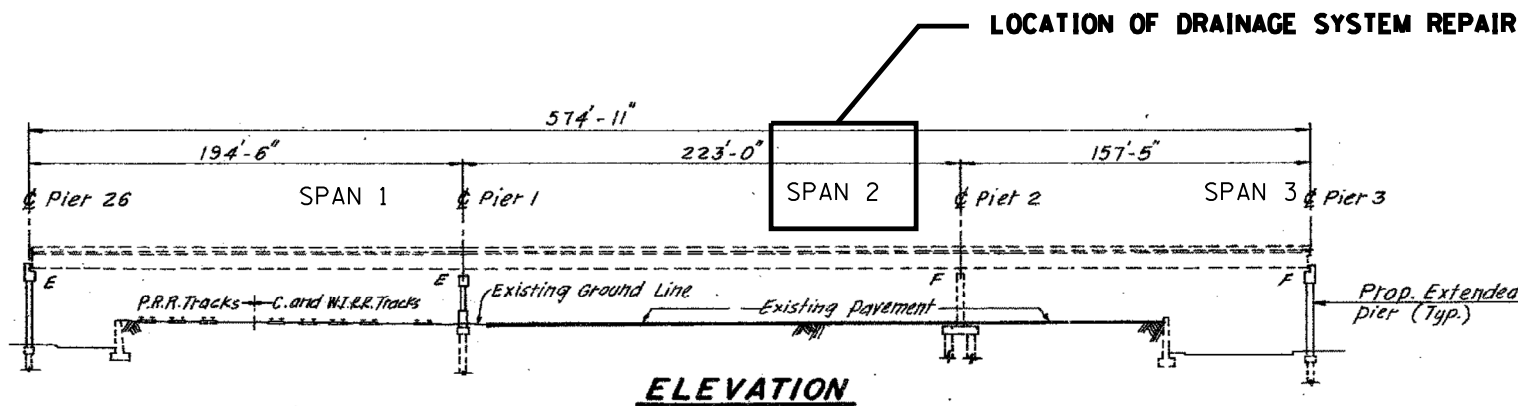


016-1140 PHOTO #1  
P18 (ABUTMENT)

BILL OF MATERIAL (S.N. 016-1140)  
ELEVATED DAN RYAN RAMP FROM  
NB DAN RYAN TO WB I-55

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 3        |



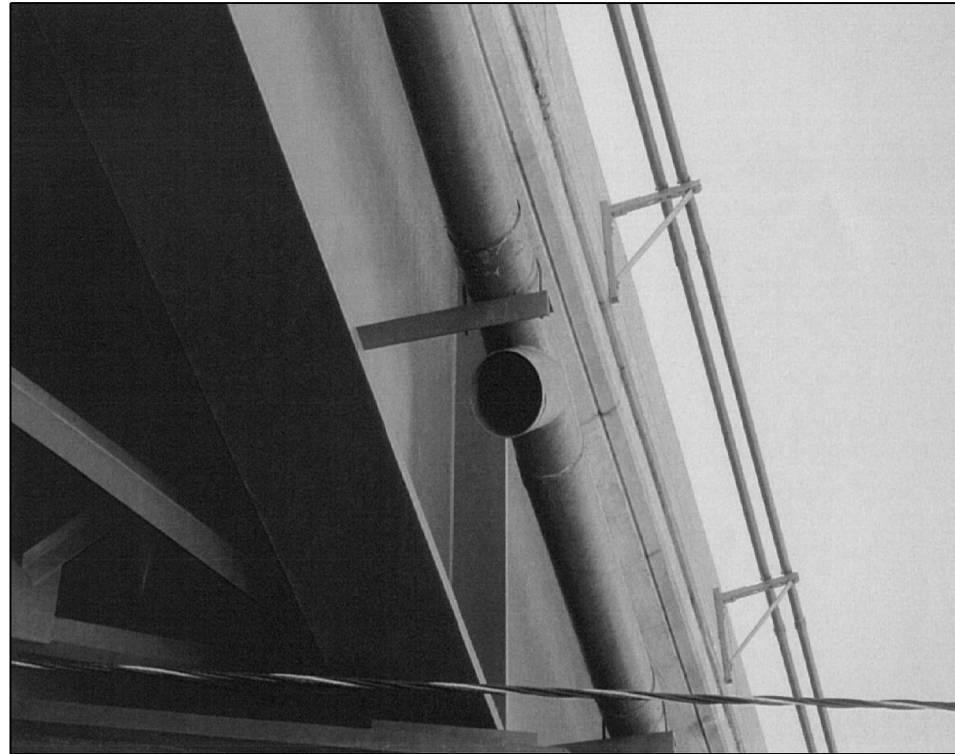


**BILL OF MATERIAL (S.N. 016-1116)**  
**DAN RYAN OVER CANAL TO STEWART ST.**

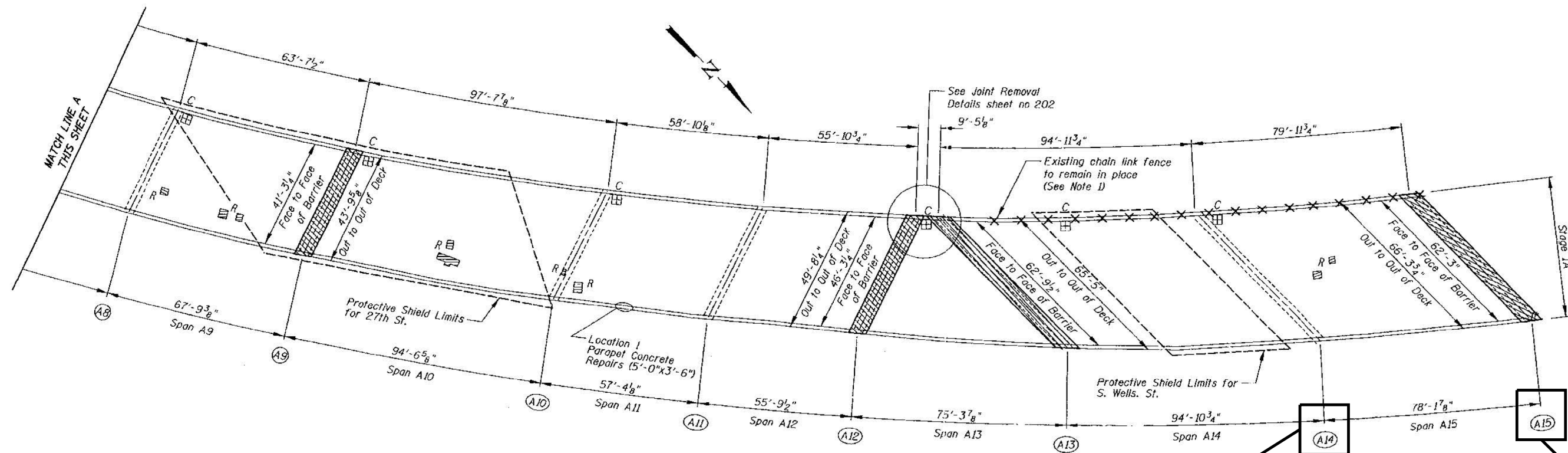
| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 2        |

|             |                     |            |           |                                                   |                                                         |                                         |                           |           |        |              |           |
|-------------|---------------------|------------|-----------|---------------------------------------------------|---------------------------------------------------------|-----------------------------------------|---------------------------|-----------|--------|--------------|-----------|
| FILE NAME = | USER NAME = dahharr | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 11 (SN 016-1116)<br>GENERAL PLAN AND ELEVATION | SCALE: SHEET 1 OF 2 SHEETS STA. TO STA. | F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| Default     |                     | CHECKED -  | REVISED - |                                                   |                                                         |                                         | VAR.                      | 2016-091T | COOK   | 69           | 38        |
|             |                     | DATE -     | REVISED - |                                                   |                                                         |                                         | CONTRACT NO. 62093        |           |        |              |           |
|             |                     |            |           |                                                   |                                                         |                                         | ILLINOIS FED. AID PROJECT |           |        |              |           |





|                                                                                                                                            |                              |            |           |                                                   |                                      |                     |                    |         |           |                           |        |              |           |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|-----------|---------------------------------------------------|--------------------------------------|---------------------|--------------------|---------|-----------|---------------------------|--------|--------------|-----------|
| FILE NAME =                                                                                                                                | USER NAME = dahanr           | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 11 (SN 016-1116)<br>DETAILS |                     |                    |         | F.A. RTE. | SECTION                   | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw:\IL084EBID\INTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI1481\Drawings\Design\DI1481-shr-LOCATIONS 016-1116.dwg |                              |            |           |                                                   |                                      |                     |                    |         | VAR.      | 2016-091T                 | COOK   | 69           | 39        |
|                                                                                                                                            | PLOT SCALE = 100.0000' / in. | CHECKED -  | REVISED - |                                                   |                                      |                     | CONTRACT NO. 62D93 |         |           |                           |        |              |           |
| Default                                                                                                                                    | PLOT DATE = 12/21/2016       | DATE -     | REVISED - |                                                   | SCALE:                               | SHEET 2 OF 2 SHEETS | STA.               | TO STA. |           | ILLINOIS FED. AID PROJECT |        |              |           |

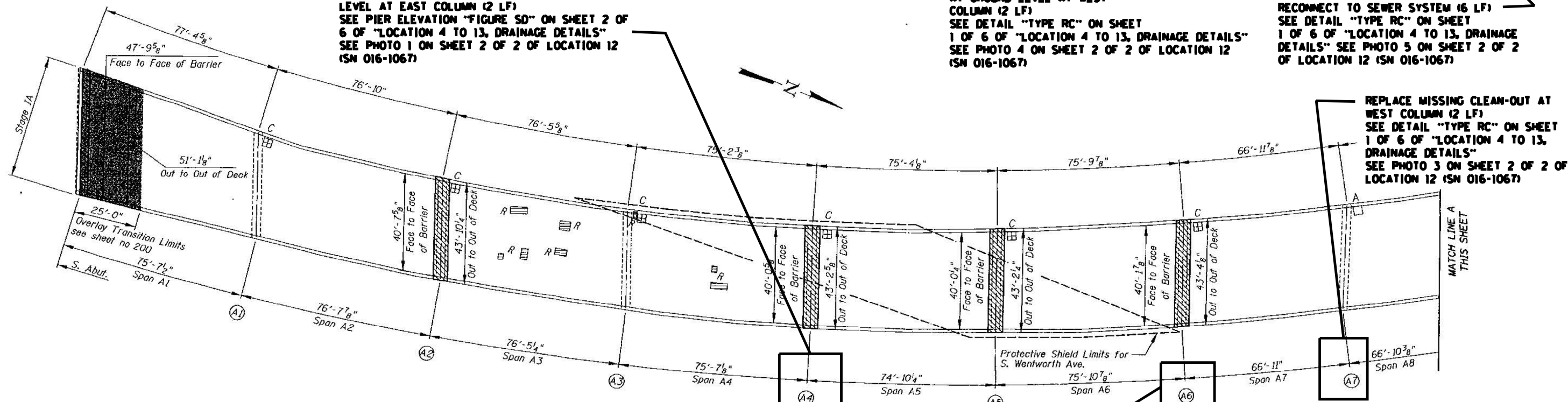


REPLACE BROKEN ELBOW JUST ABOVE GROUND LEVEL AT EAST COLUMN (2 LF)  
SEE PIER ELEVATION "FIGURE 50" ON SHEET 2 OF 6 OF "LOCATION 4 TO 13, DRAINAGE DETAILS"  
SEE PHOTO 1 ON SHEET 2 OF 2 OF LOCATION 12 (SN 016-1067)

SN 016-1067 PARTIAL DECK PLAN

REPLACE BROKEN ELBOW JUST AT GROUND LEVEL AT WEST COLUMN (2 LF)  
SEE DETAIL "TYPE RC" ON SHEET 1 OF 6 OF "LOCATION 4 TO 13, DRAINAGE DETAILS"  
SEE PHOTO 4 ON SHEET 2 OF 2 OF LOCATION 12 (SN 016-1067)

REPLACE MISSING DRAINAGE PIPE ALONG WEST COLUMN AND RECONNECT TO SEWER SYSTEM (6 LF)  
SEE DETAIL "TYPE RC" ON SHEET 1 OF 6 OF "LOCATION 4 TO 13, DRAINAGE DETAILS"  
SEE PHOTO 5 ON SHEET 2 OF 2 OF LOCATION 12 (SN 016-1067)



SN 016-1067 PARTIAL DECK PLAN

REPLACE MISSING CLEAN-OUT AT WEST COLUMN (2 LF)  
SEE DETAIL "TYPE RC" ON SHEET 1 OF 6 OF "LOCATION 4 TO 13, DRAINAGE DETAILS"  
SEE PHOTO 2 ON SHEET 2 OF 2 OF LOCATION 12 (SN 016-1067)

BILL OF MATERIAL (S.N. 016-1067)  
I-90/94 OVER STEWART ST TO 29TH ST

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 14       |



016-1067 PHOTO #1  
PIER A4



016-1067 PHOTO #2  
PIER A6



016-1067 PHOTO #3  
PIER A7

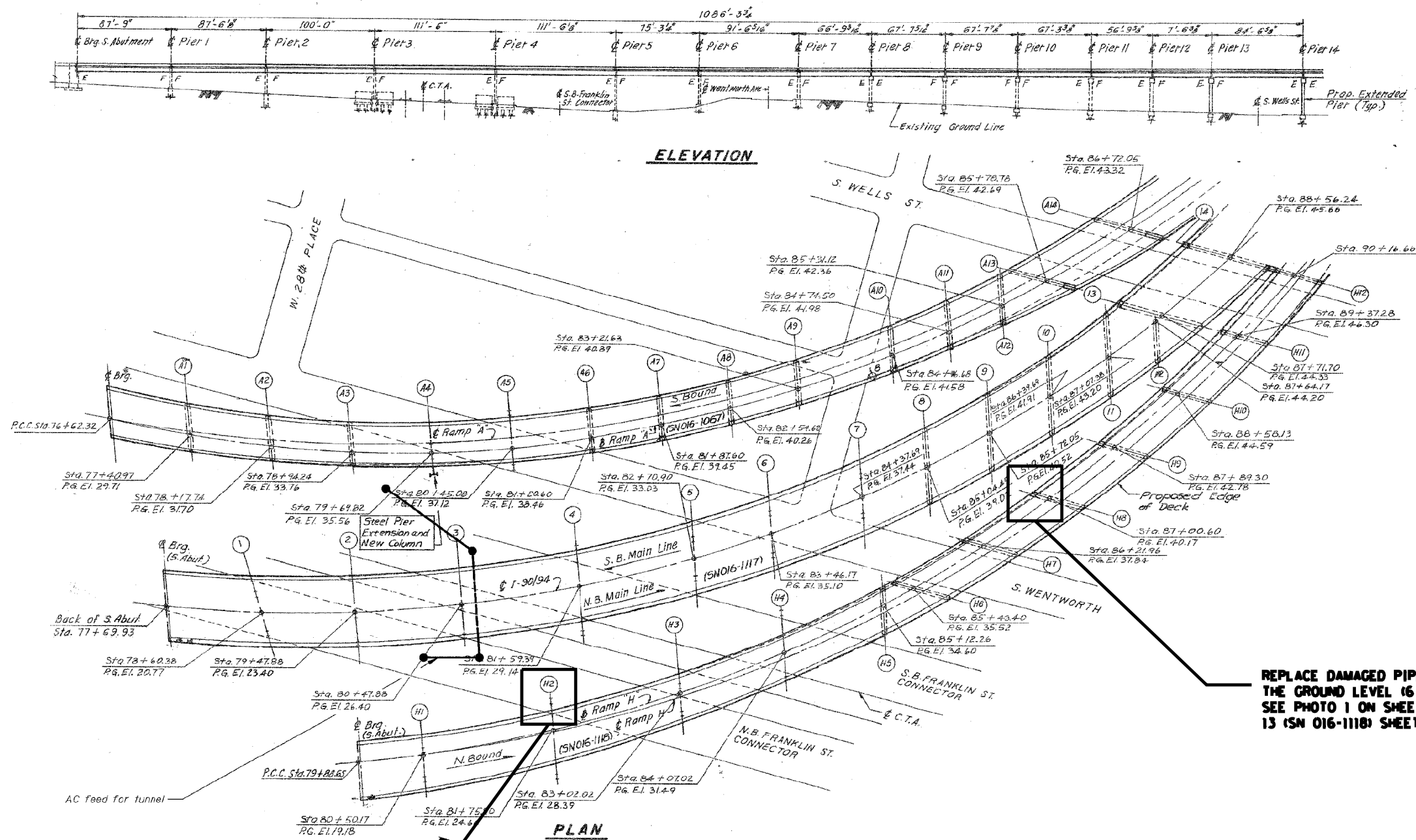


016-1067 PHOTO #4  
SPAN A14



016-1067 PHOTO #5  
SPAN A15

|                                                                                                                                                                             |                              |            |           |                                                   |                                      |         |      |        |                    |           |                           |              |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|-----------|---------------------------------------------------|--------------------------------------|---------|------|--------|--------------------|-----------|---------------------------|--------------|-----------|
| FILE NAME =<br><br>p:\11\084EBID\INTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI1481\Drawings\Design\DI14817-shr-LOCATIONS 10-REVISED<br><br>Default | USER NAME = dahhanr          | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 12 (SN 016-1067)<br>DETAILS |         |      |        | F.A. RTE.          | SECTION   | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|                                                                                                                                                                             | PLOT SCALE = 100.0000' / in. | CHECKED -  | REVISED - |                                                   |                                      |         |      |        | VAR.               | 2016-091T | COOK                      | 69           | 41        |
|                                                                                                                                                                             | PLOT DATE = 12/21/2016       | DATE -     | REVISED - |                                                   |                                      |         |      |        | CONTRACT NO. 62093 |           |                           |              |           |
|                                                                                                                                                                             |                              |            |           |                                                   | SCALE:                               | SHEET 2 | OF 2 | SHEETS | STA.               | TO STA.   | ILLINOIS FED. AID PROJECT |              |           |



REPLACE DAMAGED PIPE SECTION DOWN TO THE GROUND LEVEL (6 LF)  
SEE PHOTO 1 ON SHEET 2 OF 2 OF LOCATION 13 (SN 016-1118) SHEETS

REPLACE MISSING CLEAN OUT CAP ON PIP'S END (1 LF)  
SEE PHOTOS 2 AND 3 ON SHEET 2 OF 2 OF LOCATION 13 (SN 016-1118) SHEETS

BILL OF MATERIAL (S.N. 016-1118)  
I-90/94 NB ELEVATED LOCAL FROM WELLS TO 29TH PL

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 7        |

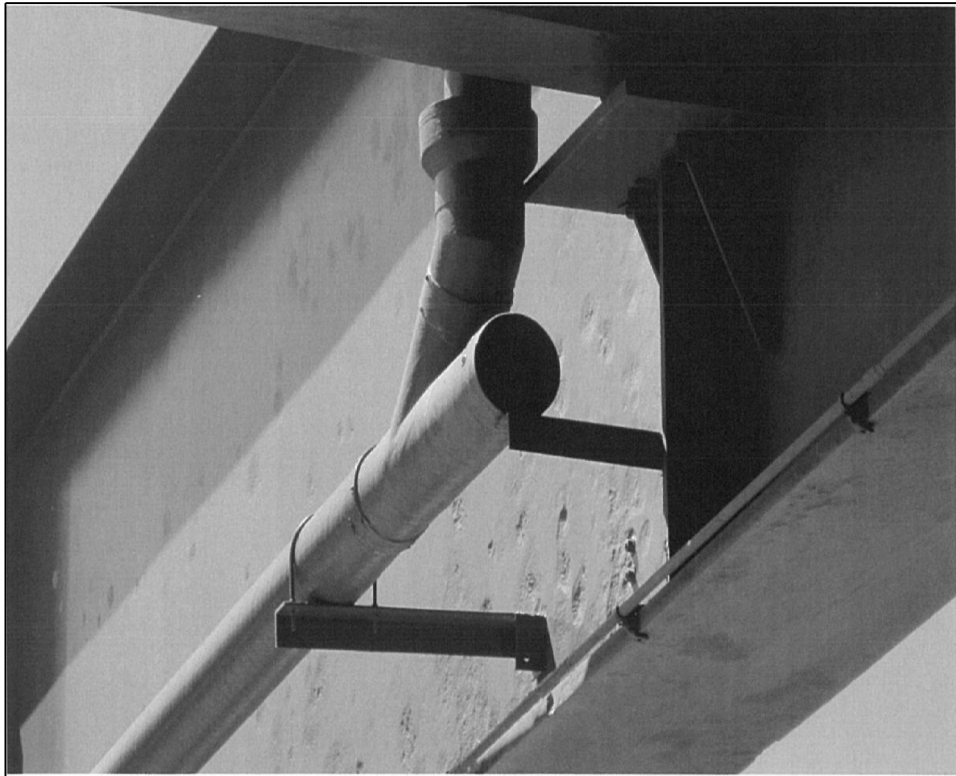




016-1118 PHOTO #1  
PIER H8 \_ WEST END

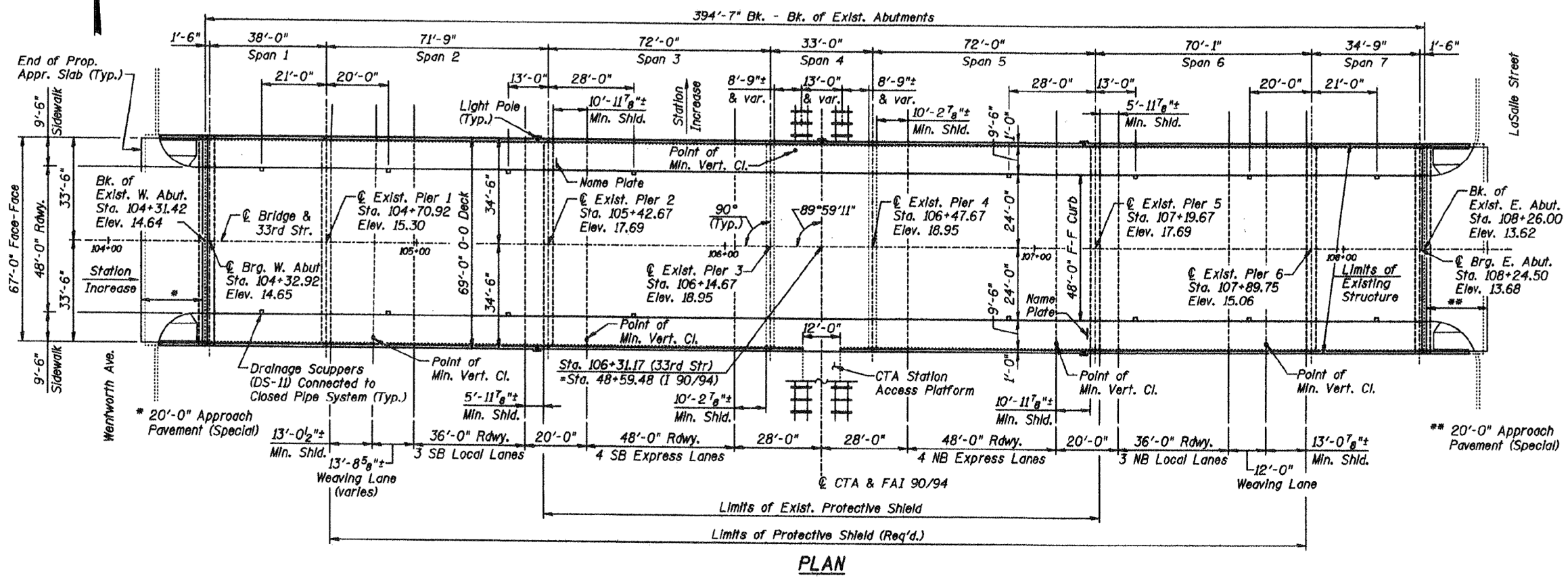
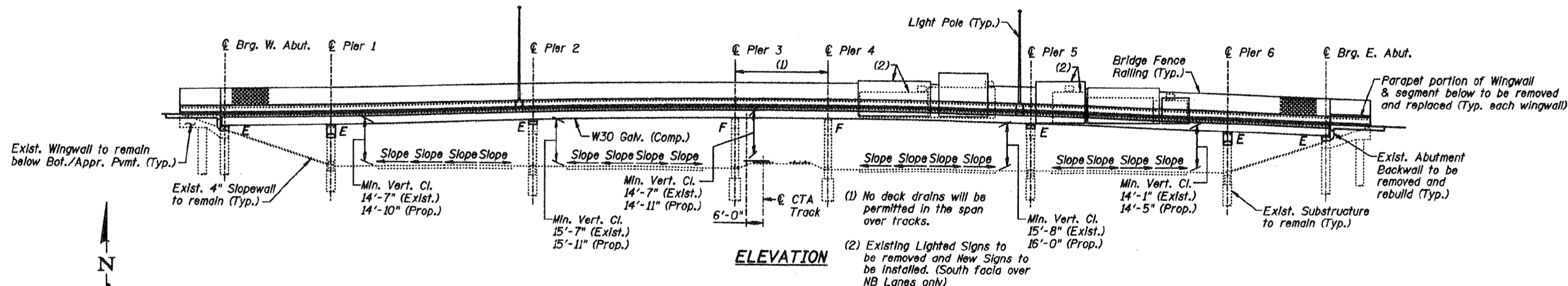


016-1118 PHOTO #2  
PIER H2 \_ SOUTH FACE



016-1118 PHOTO #3  
PIER H2 \_ SOUTH FACE

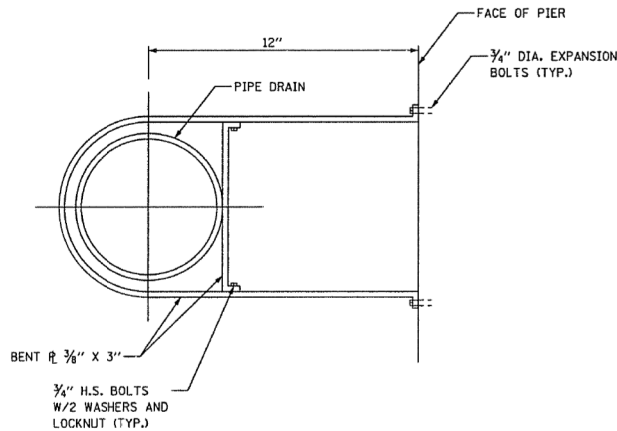
|                                                                                                                                                          |                        |                              |           |                                                   |                                      |         |                    |           |        |                 |                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------|-----------|---------------------------------------------------|--------------------------------------|---------|--------------------|-----------|--------|-----------------|---------------------------|
| FILE NAME =<br>p:\1118\016-1118\INTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI14817-1\Drawings\DI14817-1-LOCATIONS 10-16-16.dwg | USER NAME = dahhanr    | DESIGNED -                   | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 13 (SN 016-1118)<br>DETAILS |         | F.A.<br>RTE.       | SECTION   | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO.              |
|                                                                                                                                                          |                        | CHECKED -                    | REVISED - |                                                   |                                      |         | VAR.               | 2016-091T | COOK   | 69              | 43                        |
|                                                                                                                                                          |                        | PLOT SCALE = 100.0000' / in. | DATE -    |                                                   |                                      |         | CONTRACT NO. 62D93 |           |        |                 |                           |
| Default                                                                                                                                                  | PLOT DATE = 12/21/2016 | DATE -                       | REVISED - | SCALE:                                            |                                      | SHEET 2 | OF 2               | SHEETS    | STA.   | TO STA.         | ILLINOIS FED. AID PROJECT |



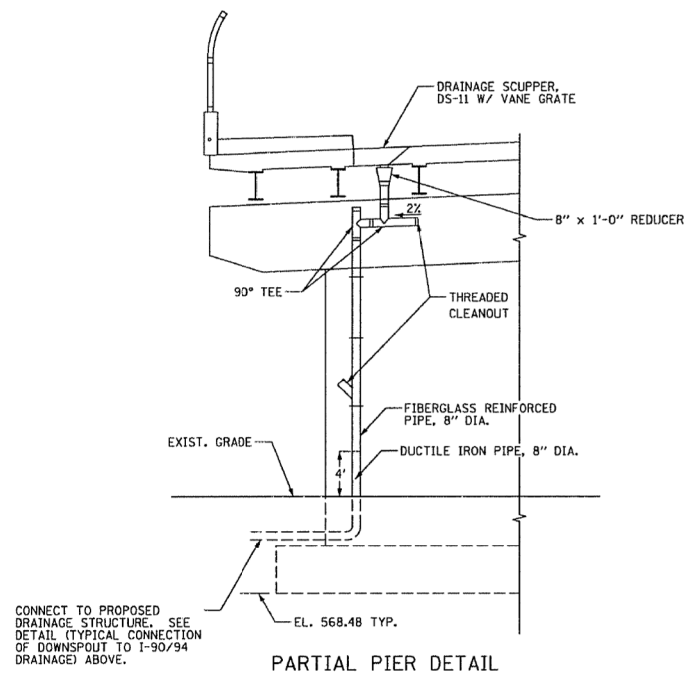
**BILL OF MATERIAL (S.N. 016-1158)  
 33RD ST OVER DAN RYAN AND CTA**

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 5        |

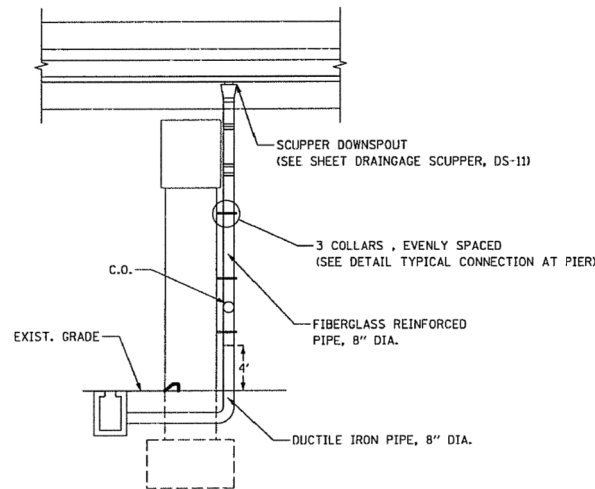




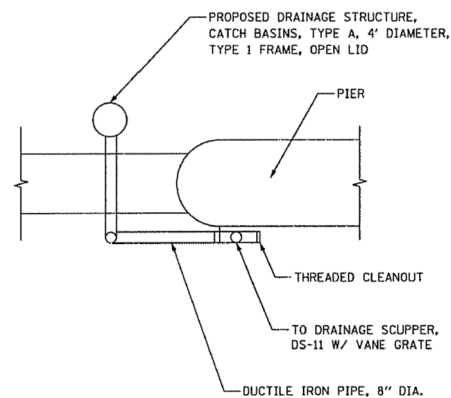
DETAIL (CONNECTION AT PIER)



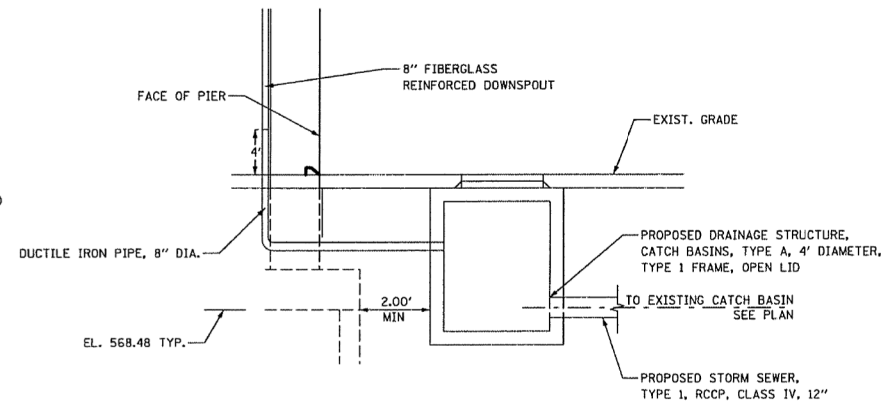
PARTIAL PIER DETAIL



END VIEW



PLAN VIEW



DETAIL (TYPICAL CONNECTION OF DOWNSPOUT TO I-90/94 DRAINAGE)



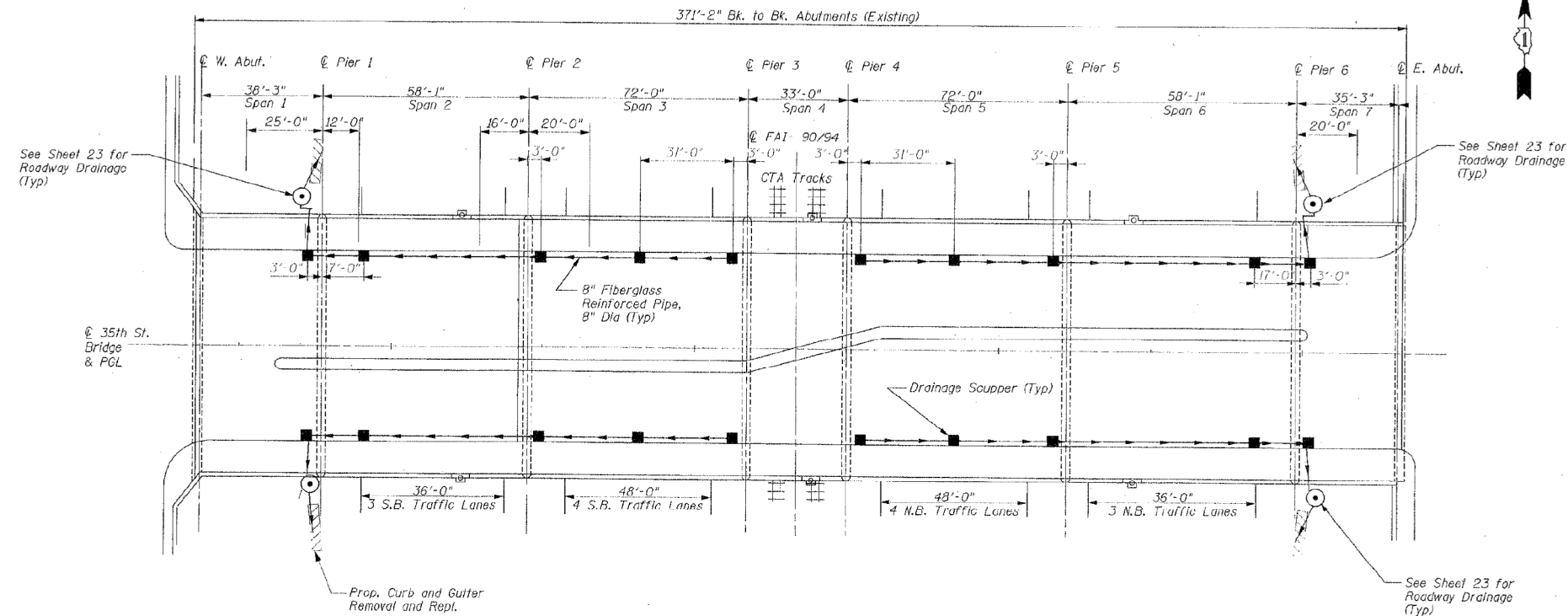
016-1158 PHOTO #  
PIER 6 \_ SOUTH END

FOR INFORMATION ONLY

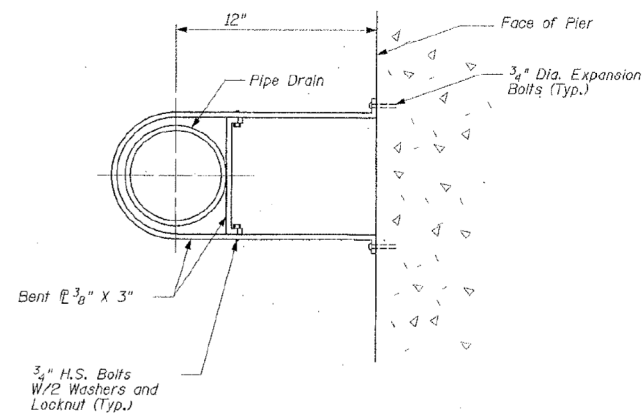
|                                                                                                                                            |                              |            |           |                                                   |  |                                               |  |                           |           |        |              |           |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|-----------|---------------------------------------------------|--|-----------------------------------------------|--|---------------------------|-----------|--------|--------------|-----------|
| FILE NAME =                                                                                                                                | USER NAME = dahharr          | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION |  | LOCATION 14 (SN 016-1158)<br>DRAINAGE DETAILS |  | F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw:\11084EBID\INTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI1481\Drawings\Design\DI14817-shr-LOCATIONS 10-REVISED |                              | CHECKED -  | REVISED - |                                                   |  |                                               |  | VAR.                      | 2016-091T | COOK   | 69           | 46        |
| Default                                                                                                                                    | PLOT SCALE = 100.0000' / in. | DATE -     | REVISED - |                                                   |  |                                               |  | CONTRACT NO. 62093        |           |        |              |           |
|                                                                                                                                            | PLOT DATE = 12/21/2016       |            |           |                                                   |  |                                               |  | ILLINOIS FED. AID PROJECT |           |        |              |           |



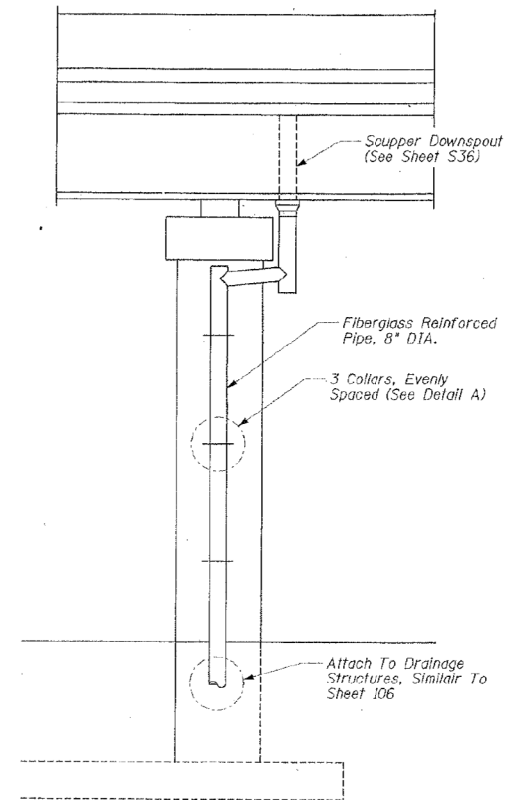




PLAN

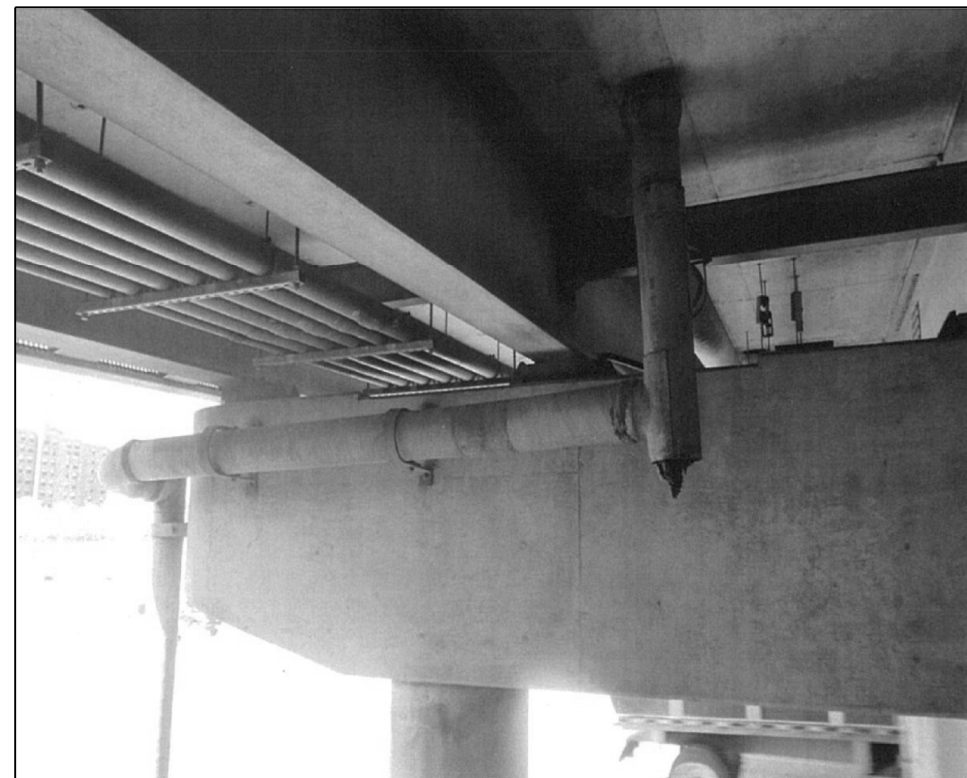


DETAIL A  
Connection of Pier



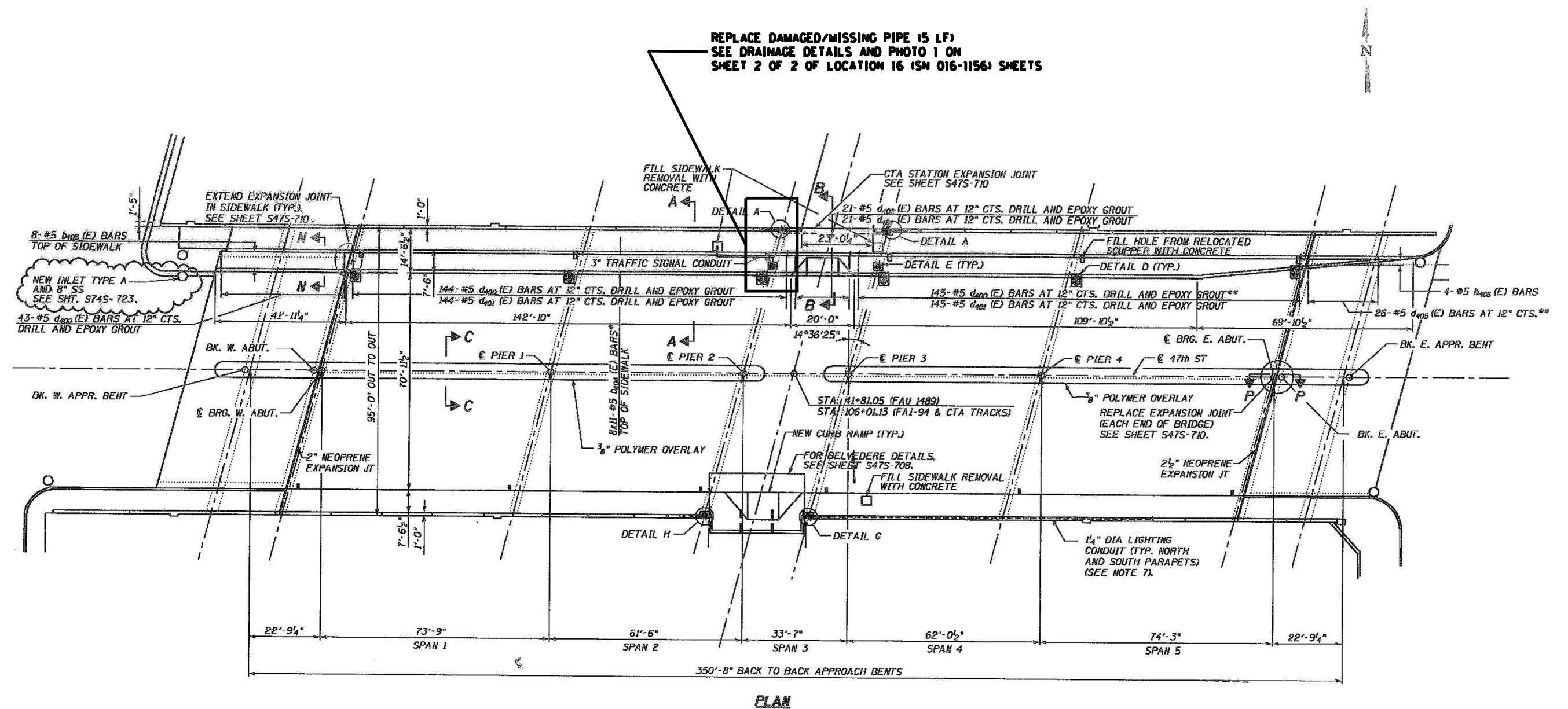
END VIEW  
At Pier

FOR INFORMATION ONLY



016-1160 PHOTO #1  
SOUTH END OF PIER 6

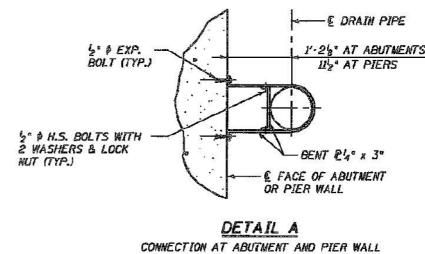
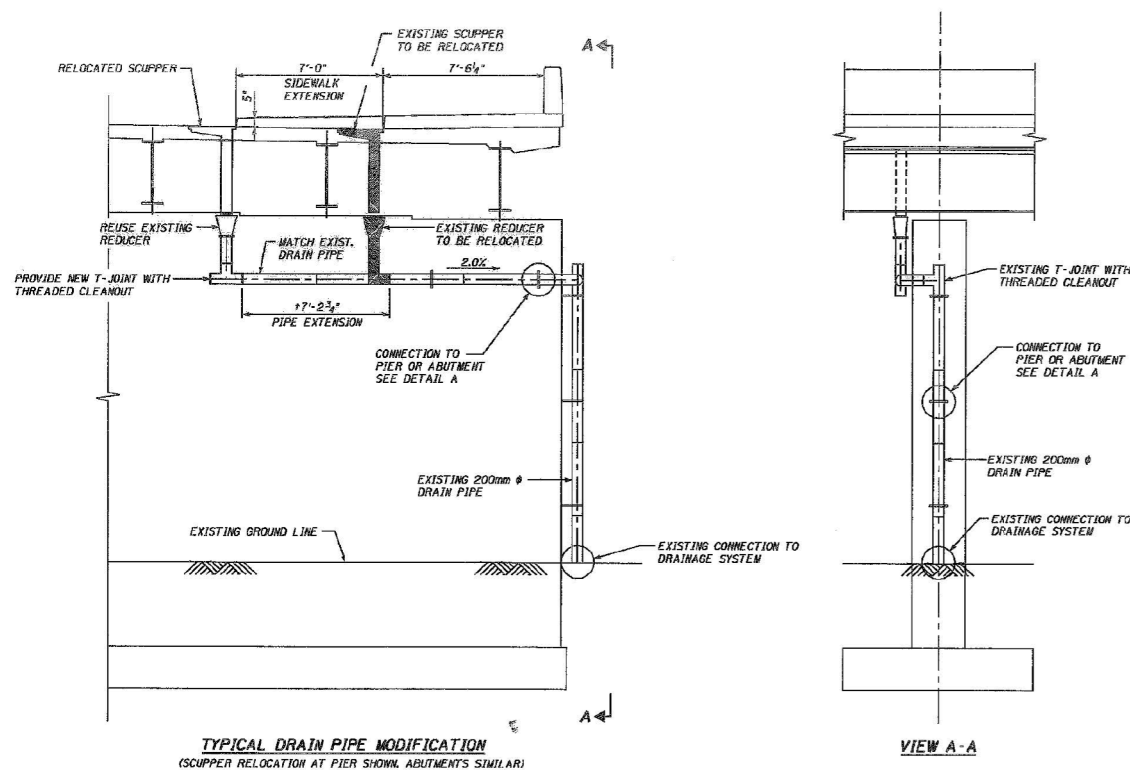
|                                                                                                                                  |                              |            |           |                                                   |                                               |                     |  |              |                           |           |        |              |           |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|-----------|---------------------------------------------------|-----------------------------------------------|---------------------|--|--------------|---------------------------|-----------|--------|--------------|-----------|
| FILE NAME =                                                                                                                      | USER NAME = dahharr          | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 15 (SN 016-1160)<br>DRAINAGE DETAILS |                     |  |              | F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw\N\084EBID\INTEG\Illinois.gov\PIDOT\Documents\PIDOT Offices\District 1\Projects\DI1481\Drawn to Design\DI1481-sht-LOCATIONS 10 |                              |            |           |                                                   |                                               |                     |  |              | VAR.                      | 2016-091T | COOK   | 69           | 48        |
| Default                                                                                                                          | PLOT SCALE = 100.0000' / in. | CHECKED -  | REVISED - |                                                   |                                               |                     |  |              | CONTRACT NO. 62093        |           |        |              |           |
|                                                                                                                                  | PLOT DATE = 12/21/2016       | DATE -     | REVISED - |                                                   |                                               |                     |  |              | ILLINOIS FED. AID PROJECT |           |        |              |           |
|                                                                                                                                  |                              |            |           | SCALE:                                            |                                               | SHEET 2 OF 2 SHEETS |  | STA. TO STA. |                           |           |        |              |           |



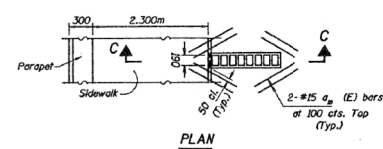
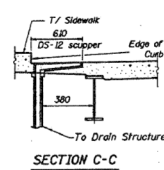
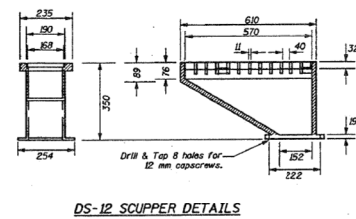
**BILL OF MATERIAL (S.N. 016-1156)  
47TH ST OVER DAN RYAN**

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 5        |

|                                                                                                                         |                     |            |            |                                                           |                                                   |                           |           |        |              |           |
|-------------------------------------------------------------------------------------------------------------------------|---------------------|------------|------------|-----------------------------------------------------------|---------------------------------------------------|---------------------------|-----------|--------|--------------|-----------|
| FILE NAME =                                                                                                             | USER NAME = dahharr | DESIGNED - | REVISED -  | <b>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</b> | <b>LOCATION 16 (SN 016-1156)<br/>GENERAL PLAN</b> | F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| p:\11\084EBID\INTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI14817\Design\DI14817-shr-LOCATIONS |                     | REVIEWED - | REVIEWED - |                                                           |                                                   | VAR.                      | 2016-091T | COOK   | 69           | 49        |
| PLOT SCALE = 100.0000' / in.                                                                                            |                     | CHECKED -  | REVISIED - |                                                           |                                                   | CONTRACT NO. 62093        |           |        |              |           |
| Default                                                                                                                 |                     | DATE -     | REVISED -  |                                                           |                                                   | ILLINOIS FED. AID PROJECT |           |        |              |           |

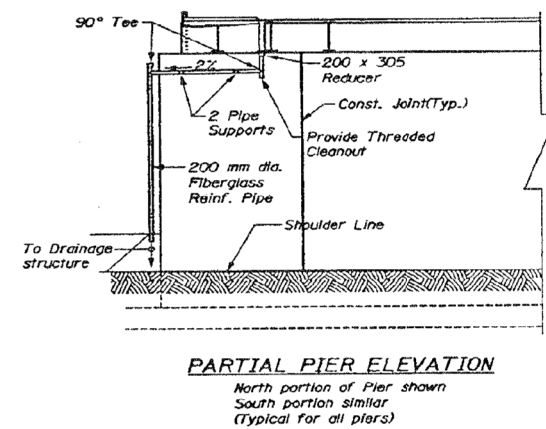


016-1156 PHOTO #1  
PIER 2 - WEST FACE



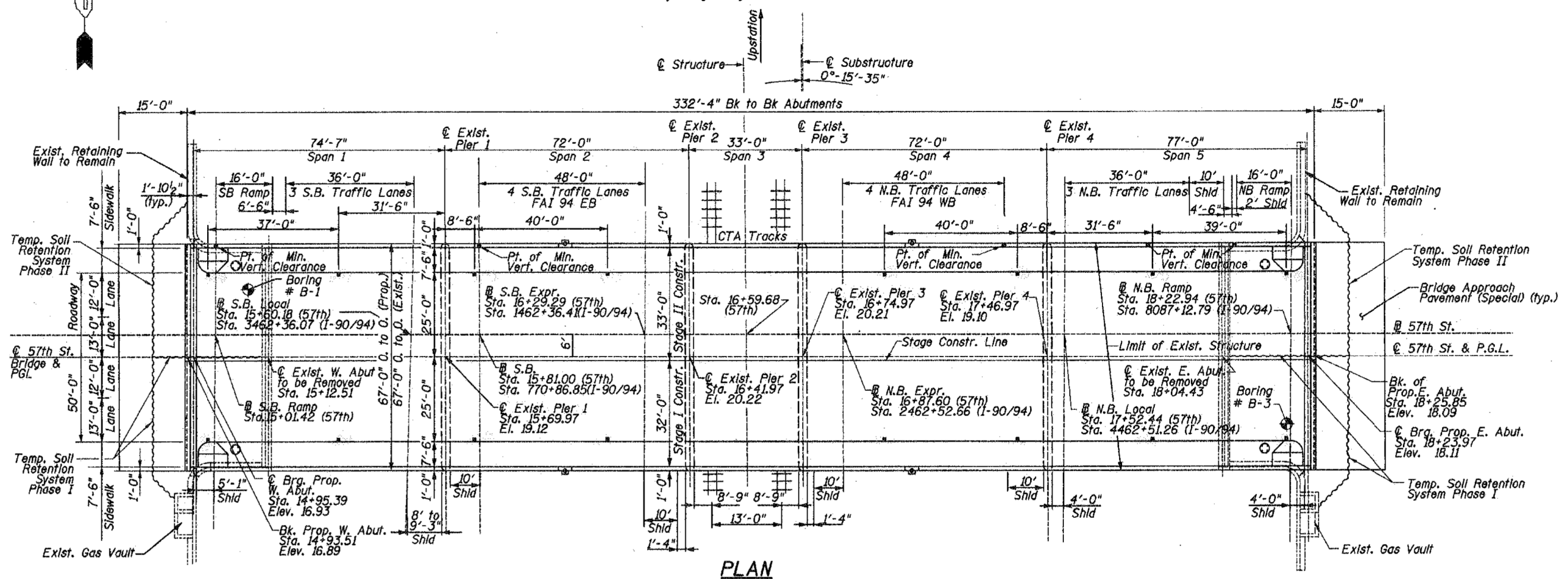
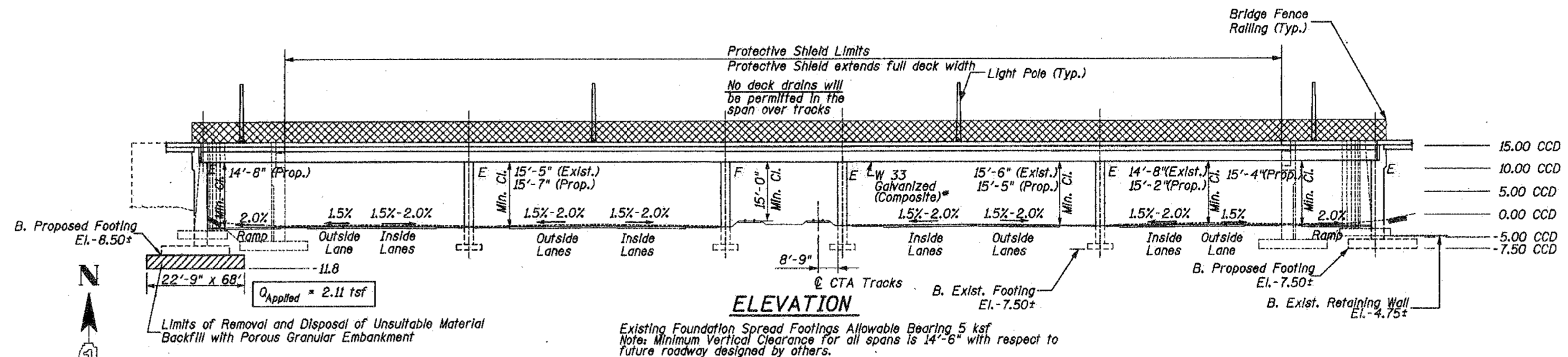
Use longitudinal reinforcement to clear drainage scuppers.

Notes:  
All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 30.  
Balls, washers and nuts shall be galvanized according to AASHTO M 232.  
Cost of the Main Grate, Cleanout Grate, Frame, Downspout, Balls, Washers, Nuts including complete installation of Scupper shall be paid for at the unit bid price each for "DRAINAGE SCUPPERS".  
All dimensions are in millimeters unless noted otherwise.



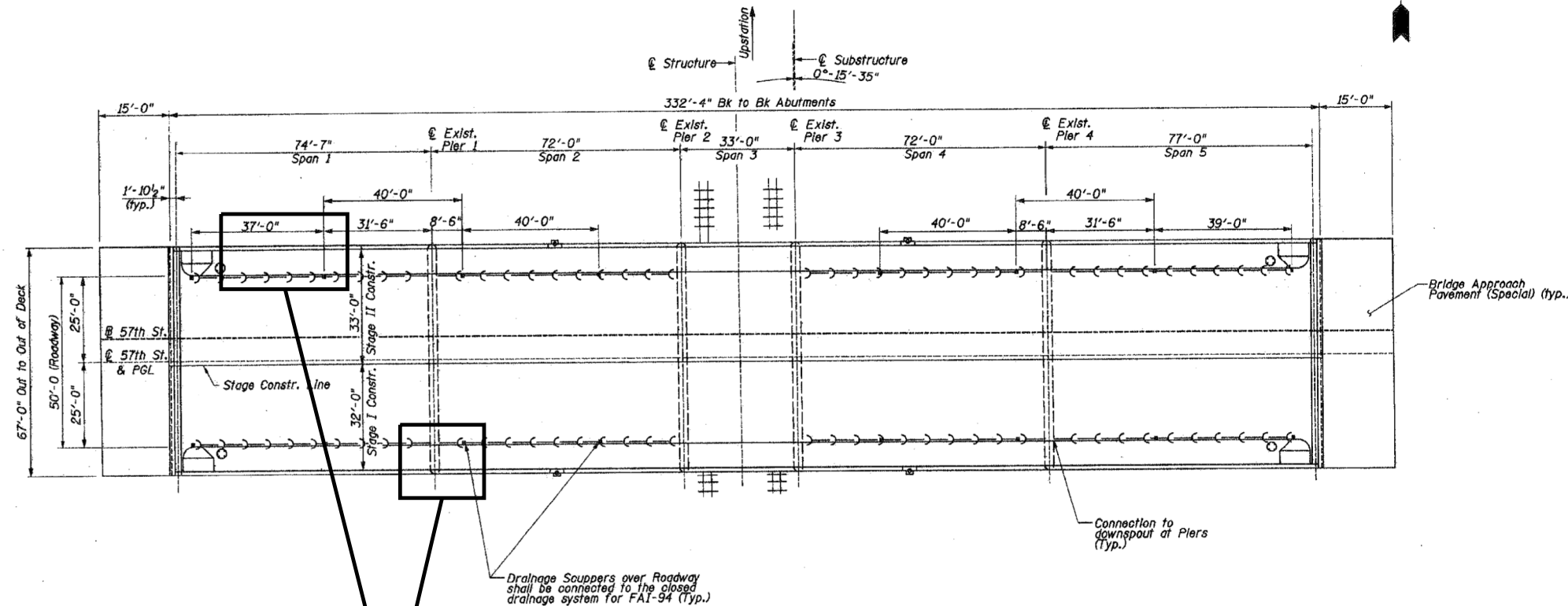
FOR INFORMATION ONLY

|                                                                                                                                 |                              |            |           |                                                   |                                               |         |             |                           |           |        |              |           |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|-----------|---------------------------------------------------|-----------------------------------------------|---------|-------------|---------------------------|-----------|--------|--------------|-----------|
| FILE NAME =                                                                                                                     | USER NAME = dahhnr           | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 16 (SN 016-1156)<br>DRAINAGE DETAILS |         |             | F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| p:\1\1084EBID\INTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI1481\Drawings\Design\DI14817-shr-LOCATIONS |                              |            |           |                                                   |                                               |         |             | VAR.                      | 2016-091T | COOK   | 69           | 50        |
| Default                                                                                                                         | PLOT SCALE = 100.0000' / in. | CHECKED -  | REVISED - |                                                   | CONTRACT NO. 62093                            |         |             | ILLINOIS FED. AID PROJECT |           |        |              |           |
|                                                                                                                                 | PLOT DATE = 12/21/2016       | DATE -     | REVISED - |                                                   | SCALE:                                        | SHEET 2 | OF 2 SHEETS | STA.                      | TO STA.   |        |              |           |

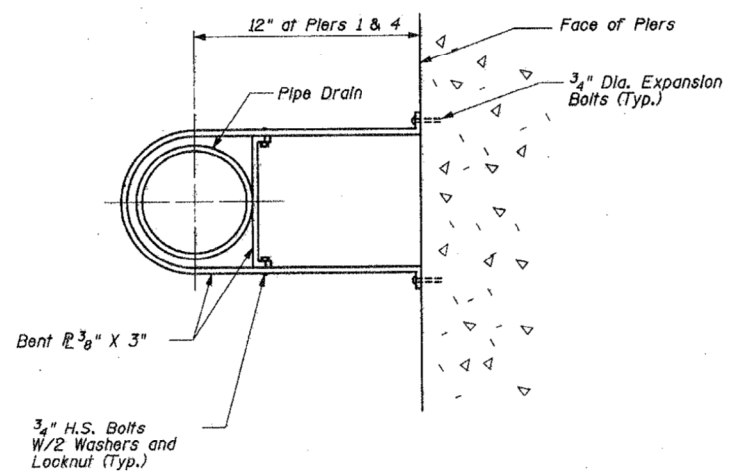


BILL OF MATERIAL (S.N. 016-1151)  
57TH ST OVER DAN RYAN

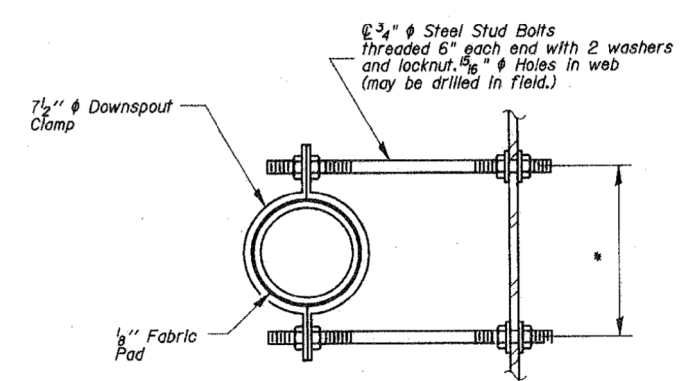
| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 45       |



REPLACE DAMAGED/MISSING DRAINAGE PIPE IN SPAN 1 AND AT THE SOUTH END OF PIER 1 (45 LF)  
SEE PHOTOS 1 AND 2 ON SHEET 3 OF 3 OF LOCATION 17 (SN 016-1151) SHEETS



**DETAIL A**  
Connection at Pier

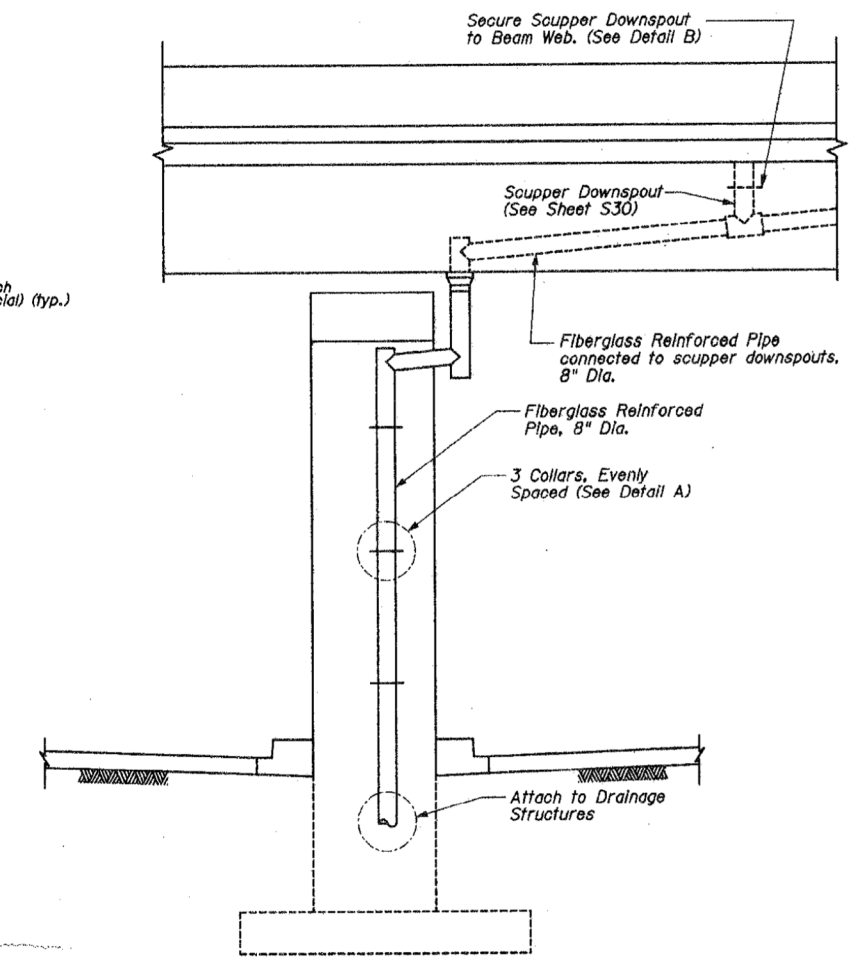


**DETAIL B**

\* Dimension as required by Downspout Clamp.

**NOTES:**

1. Connection to existing drainage structure at:  
Pier 1 (appx. 25' to north; appx. 100' to south)  
Pier 4 (appx. 35' to north; appx. 100' to south)
2. The elevations for proposed pipe inverts connecting to existing structures for the bridge drainage system shall be determined by the contractor in the field prior to construction.

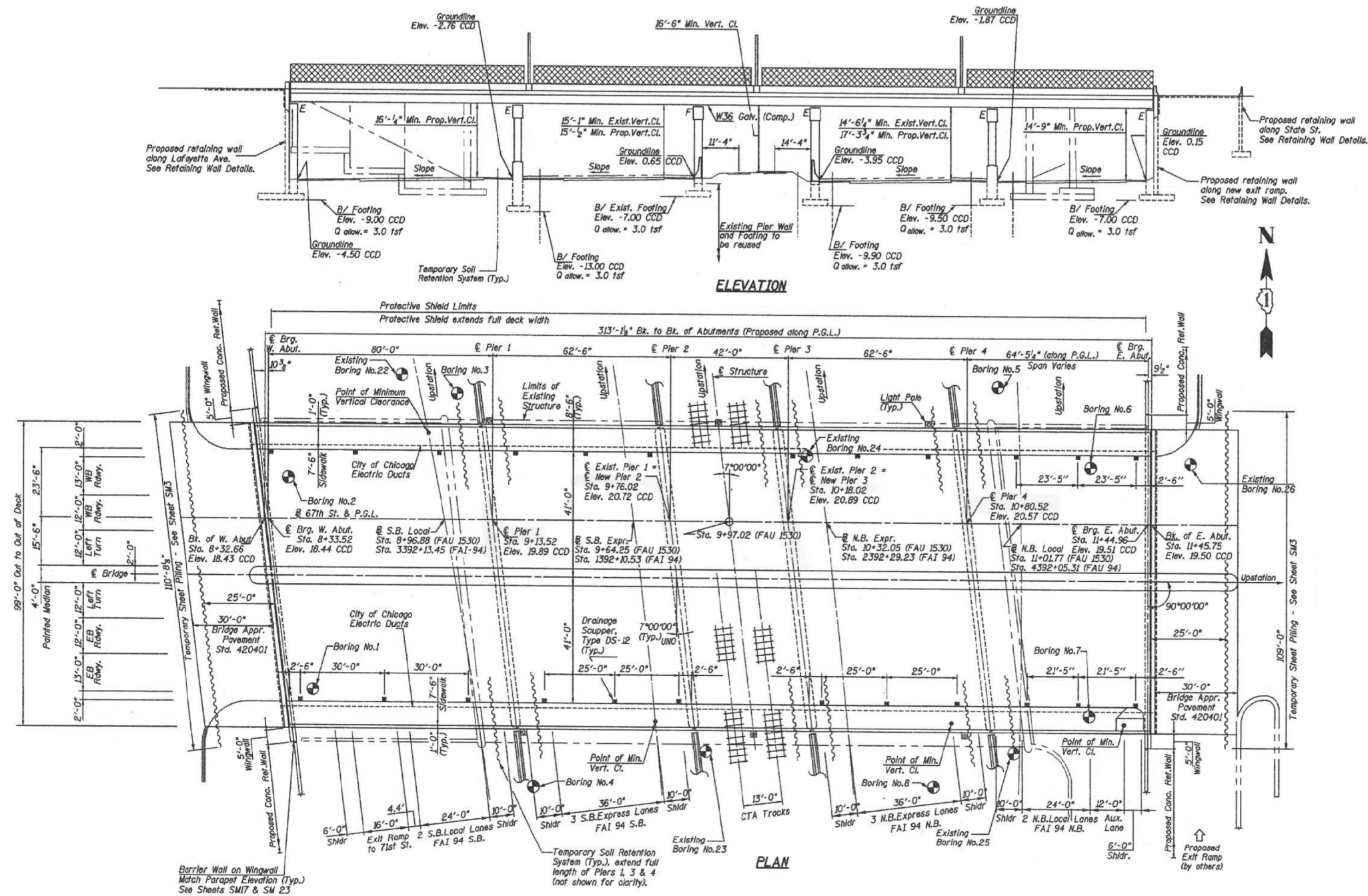


**END VIEW**  
At Piers 1 and 4





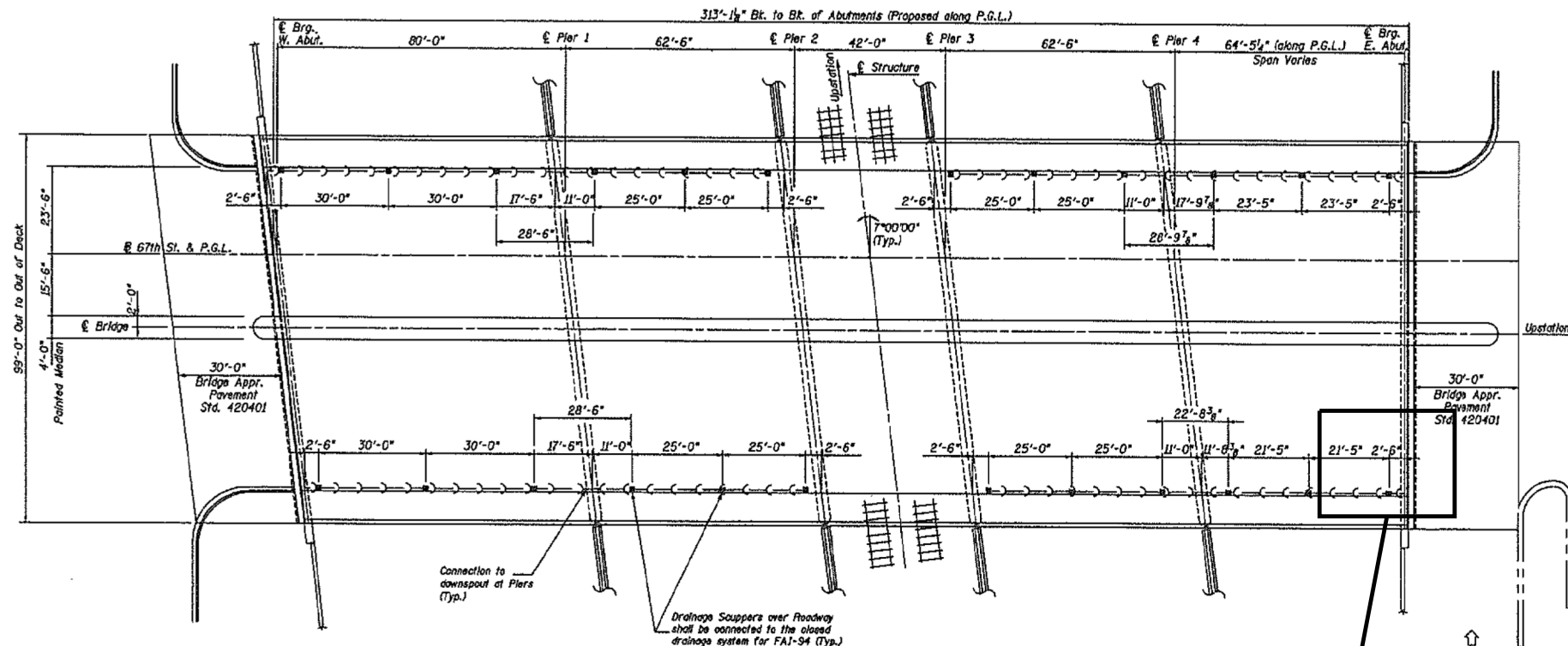
|                                                                                                                                        |                             |            |           |                                                   |                                      |         |             |      |                    |                           |        |              |           |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------|-----------|---------------------------------------------------|--------------------------------------|---------|-------------|------|--------------------|---------------------------|--------|--------------|-----------|
| FILE NAME =                                                                                                                            | USER NAME = dahanr          | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 17 (SN 016-1151)<br>DETAILS |         |             |      | F.A. RTE.          | SECTION                   | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw:\IL084EBID\INTEG\Illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI1481\Drawn to Design\DI14817-sht-LOCATIONS 17.dwg |                             |            |           |                                                   |                                      |         |             |      | VAR.               | 2016-091T                 | COOK   | 69           | 53        |
|                                                                                                                                        | PLOT SCALE = 100.000' / in. | CHECKED -  | REVISED - |                                                   |                                      |         |             |      | CONTRACT NO. 62D93 |                           |        |              |           |
| Default                                                                                                                                | PLOT DATE = 12/21/2016      | DATE -     | REVISED - |                                                   | SCALE:                               | SHEET 3 | OF 3 SHEETS | STA. | TO STA.            | ILLINOIS FED. AID PROJECT |        |              |           |



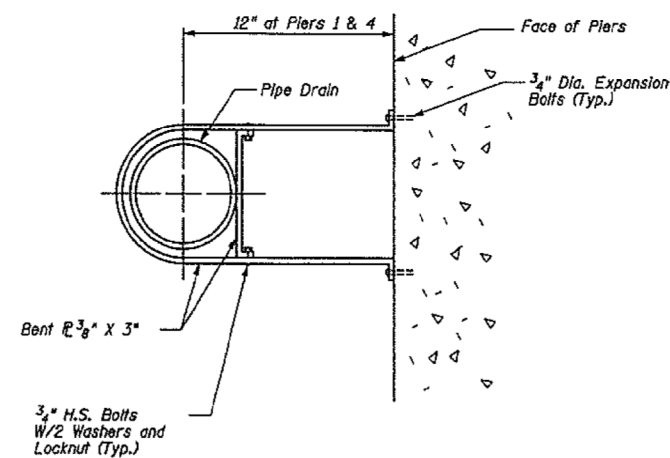
BILL OF MATERIAL (S.N. 016-1147)  
67TH ST. OVER DAN RYAN

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 15       |

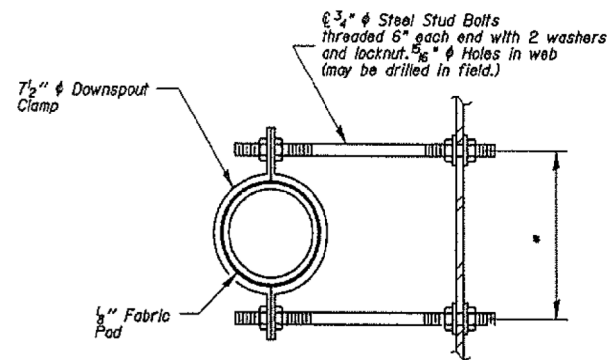
|             |                    |            |           |                                                   |                                                         |           |           |        |                           |              |
|-------------|--------------------|------------|-----------|---------------------------------------------------|---------------------------------------------------------|-----------|-----------|--------|---------------------------|--------------|
| FILE NAME = | USER NAME = dahhnr | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 18 (SN 016-1147)<br>GENERAL PLAN AND ELEVATION | F.A. RTE. | SECTION   | COUNTY | TOTAL SHEETS              | SHEET NO.    |
| Default     | Default            | Default    | Default   |                                                   |                                                         | VAR.      | 2016-091T | COOK   | 69                        | 54           |
|             |                    |            |           |                                                   |                                                         |           |           |        | CONTRACT NO. 62093        |              |
|             |                    |            |           |                                                   |                                                         | SCALE:    | SHEET 1   | OF 2   | SHEETS                    | STA. TO STA. |
|             |                    |            |           |                                                   |                                                         |           |           |        | ILLINOIS FED. AID PROJECT |              |



REPLACE DAMAGED/MISSING DRAINAGE PIPE  
AT THE SOUTH END OF THE E ABUTMENT (15 LF)  
SEE PHOTOS 1 THIS SHEET.

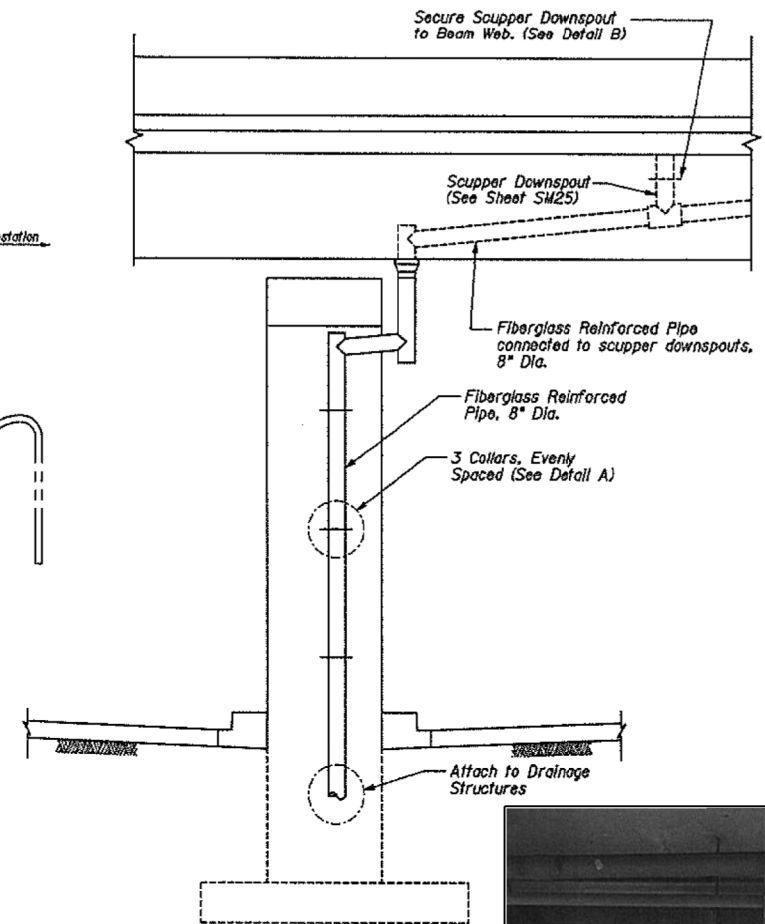


**DETAIL A**  
Connection at Pier

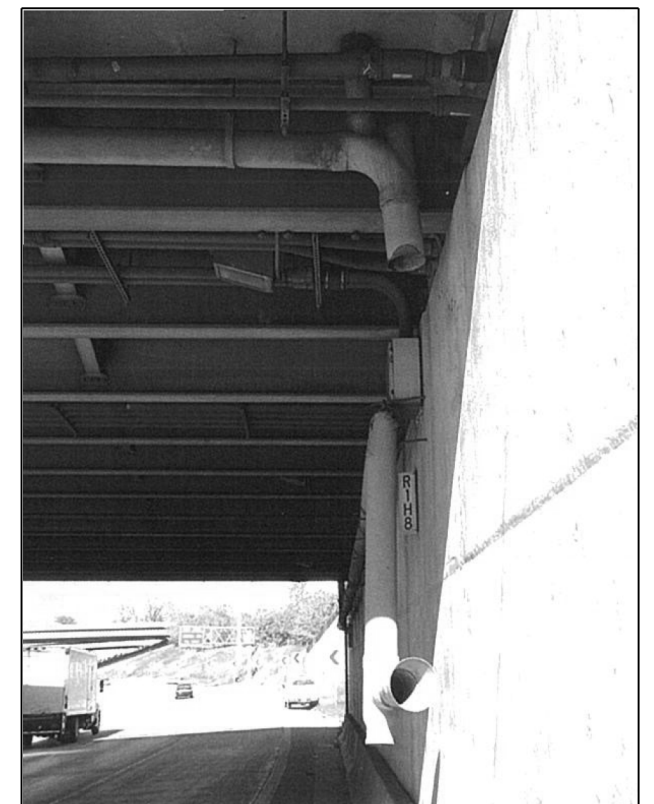


**DETAIL B**

\* Dimension as required by Downspout Clamp.

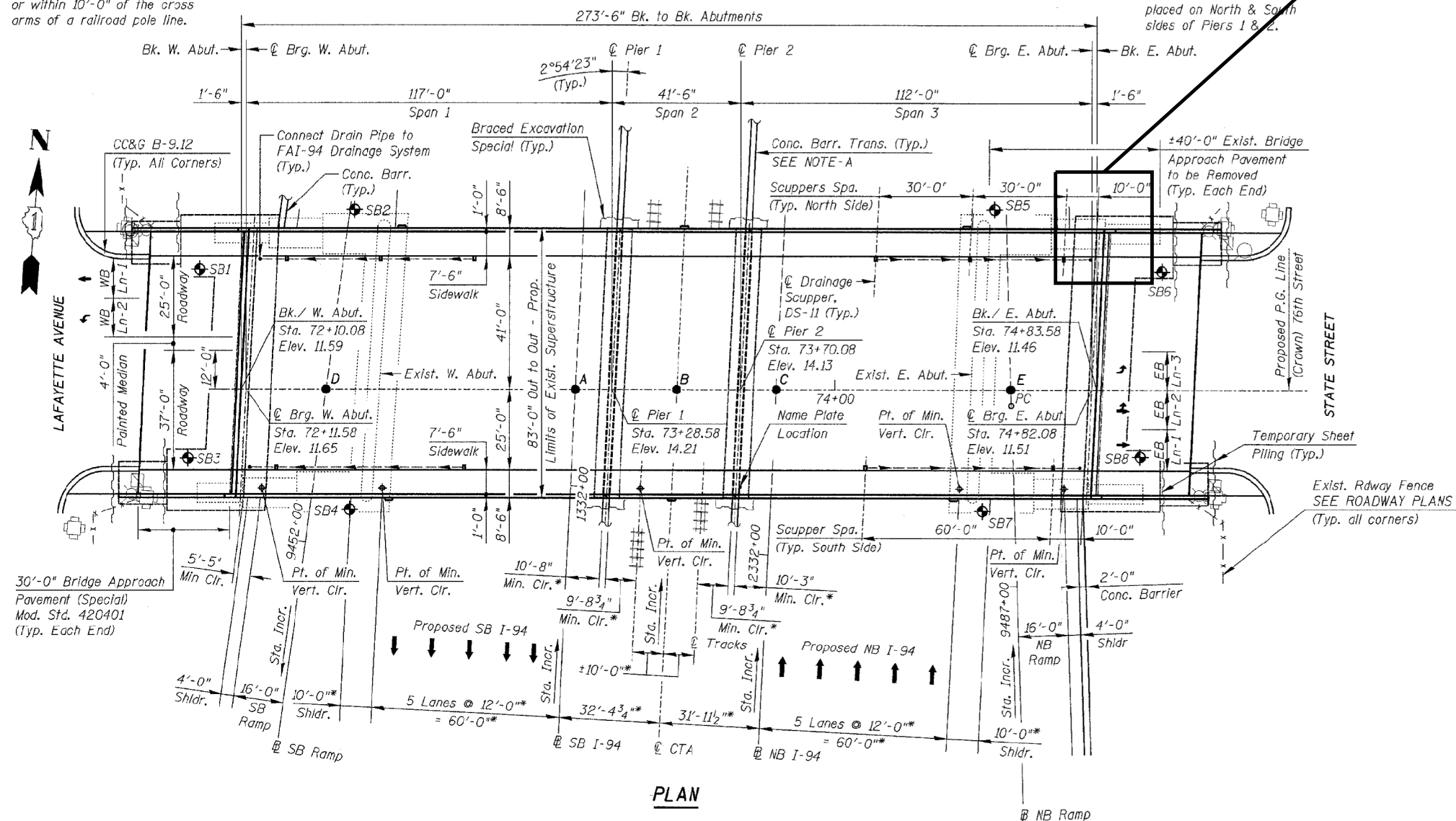
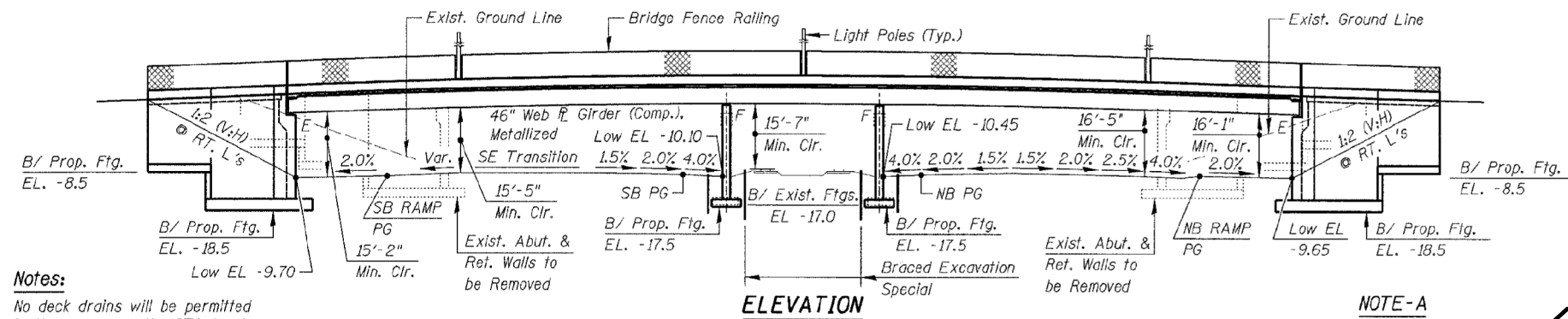


**END VIEW**  
At Piers 1 and 4



016-1147 PHOTO #1  
EAST ABUTMENT -  
SOUTH END

|                                                                                                                                       |                              |            |           |                                                   |  |                                               |  |                           |           |        |              |           |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------|-----------|---------------------------------------------------|--|-----------------------------------------------|--|---------------------------|-----------|--------|--------------|-----------|
| FILE NAME =                                                                                                                           | USER NAME = dahharr          | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION |  | LOCATION 18 (SN 016-1147)<br>DRAINAGE DETAILS |  | F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| pw:\11\084EBID\INTEG\Illinois.gov\PIWIDOT\Documents\100T Offices\District 1\Projects\0114817\Drawings\Design\0114817-shd-LOCATIONS 17 |                              | REVIS      | REVISED - |                                                   |  |                                               |  | VAR.                      | 2016-091T | COOK   | 69           | 55        |
| Default                                                                                                                               | PLOT SCALE = 100.0000' / in. | CHECKED -  | REVISED - |                                                   |  |                                               |  | CONTRACT NO. 62093        |           |        |              |           |
|                                                                                                                                       | PLOT DATE = 12/21/2016       | DATE -     | REVISED - |                                                   |  |                                               |  | ILLINOIS FED. AID PROJECT |           |        |              |           |



**BILL OF MATERIAL (S.N. 016-2850)**  
**76TH ST. OVER DAN RYAN**

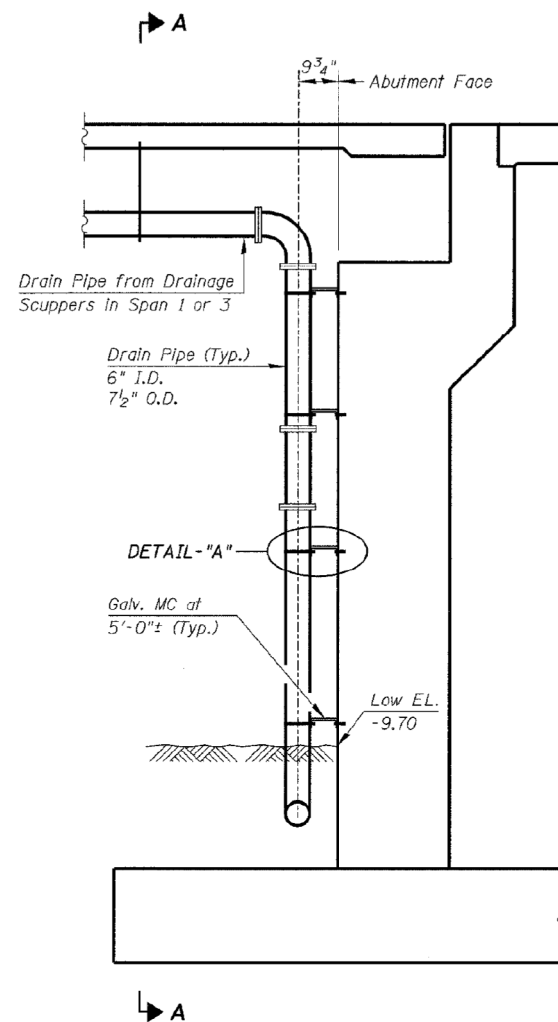
| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 3        |

|                                                                                                                        |                        |            |           |
|------------------------------------------------------------------------------------------------------------------------|------------------------|------------|-----------|
| FILE NAME =                                                                                                            | USER NAME = dahhnr     | DESIGNED - | REVISED - |
| p:\11\084EBID\INTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\0114817\Design\0114817-shr-LOCATIONS |                        | CHECKED -  | REVISED - |
| Default                                                                                                                | PLOT DATE = 12/21/2016 | DATE -     | REVISED - |

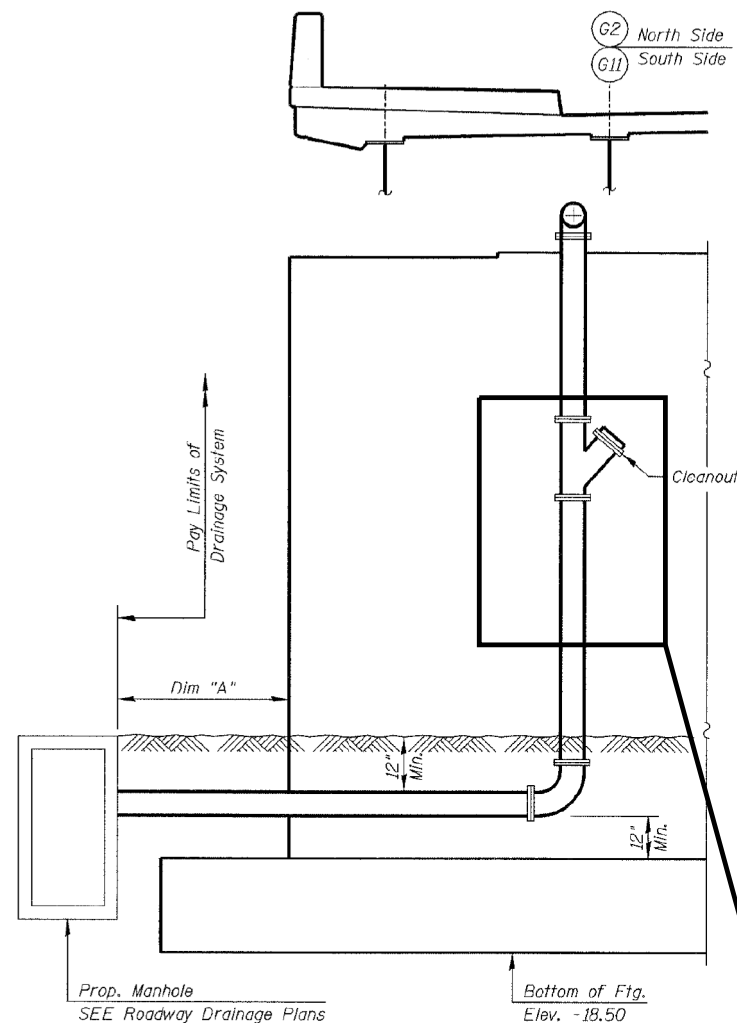
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

|                                   |         |             |              |
|-----------------------------------|---------|-------------|--------------|
| <b>LOCATION 19 (SN 016-2850)</b>  |         |             |              |
| <b>GENERAL PLAN AND ELEVATION</b> |         |             |              |
| SCALE:                            | SHEET 1 | OF 2 SHEETS | STA. TO STA. |

|                           |           |        |              |           |
|---------------------------|-----------|--------|--------------|-----------|
| F.A. RTE.                 | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| VAR.                      | 2016-091T | COOK   | 69           | 56        |
| CONTRACT NO. 62093        |           |        |              |           |
| ILLINOIS FED. AID PROJECT |           |        |              |           |

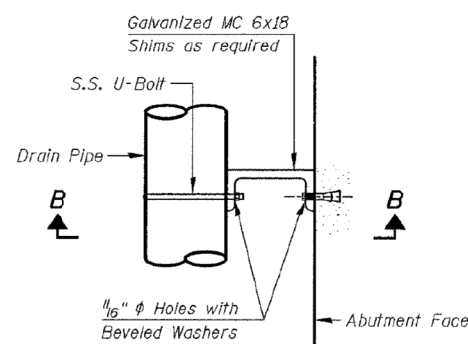


DRAINAGE SYSTEM AT ABUTMENTS

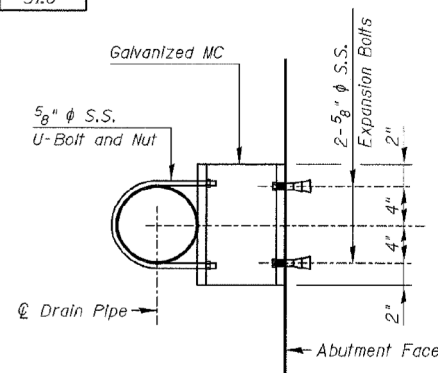


SECTION A-A

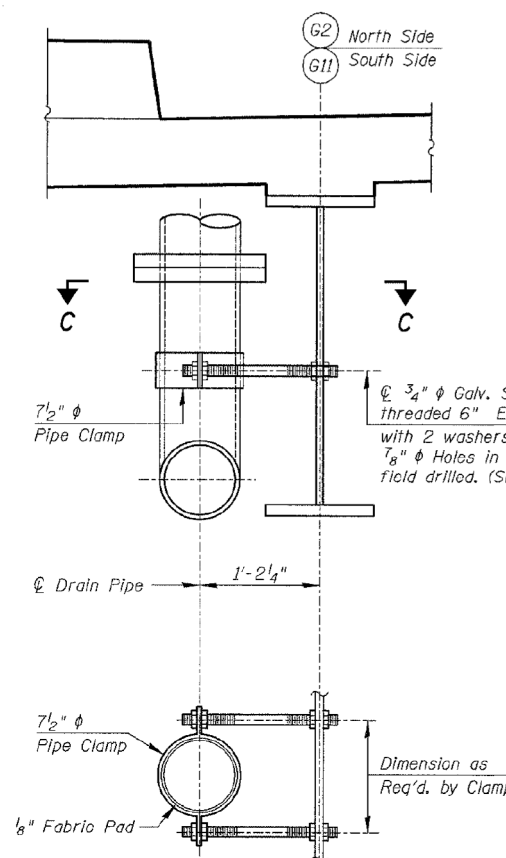
| DIM "A"  |           |       |
|----------|-----------|-------|
| W. Abut. | NW Corner | 18.0' |
|          | SW Corner | 10.0' |
| E. Abut. | NE Corner | 14.0' |
|          | SE Corner | 31.0' |



DETAIL - "A"



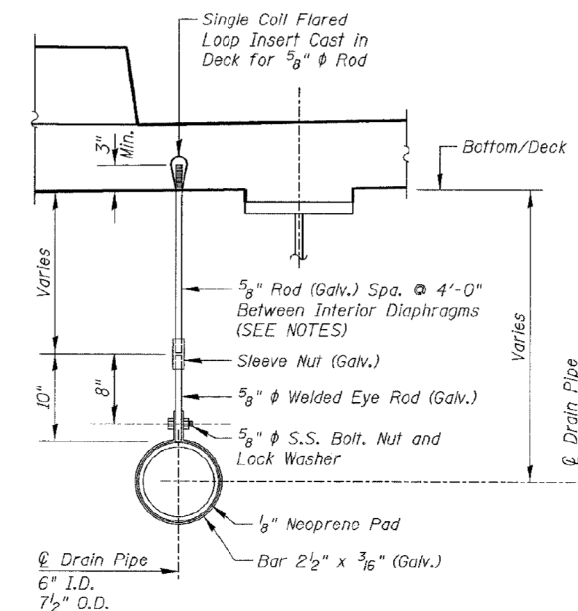
SECTION B-B



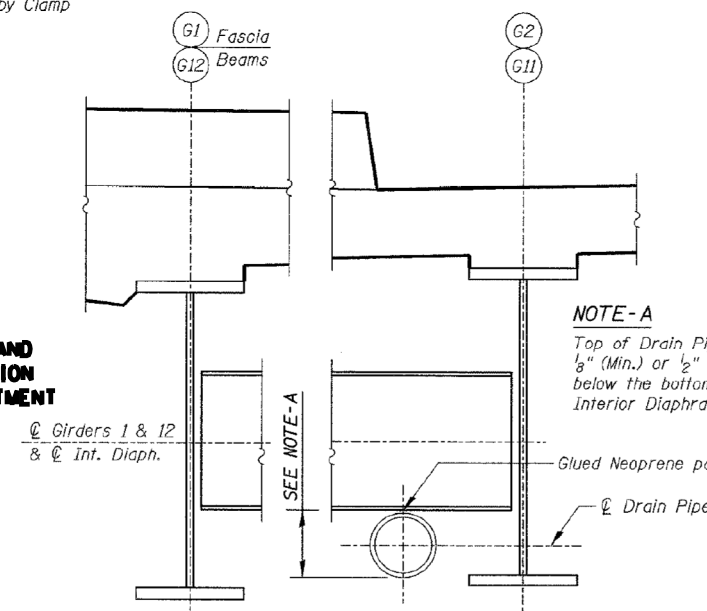
SECTION C-C

VERTICAL PIPE  
SUPPORT DETAIL

PROVIDE MISSING CLEANOUT AND  
REPLACE DAMAGED PIPE SECTION  
AT NORTH END OF EAST ABUTMENT  
(3 LF)

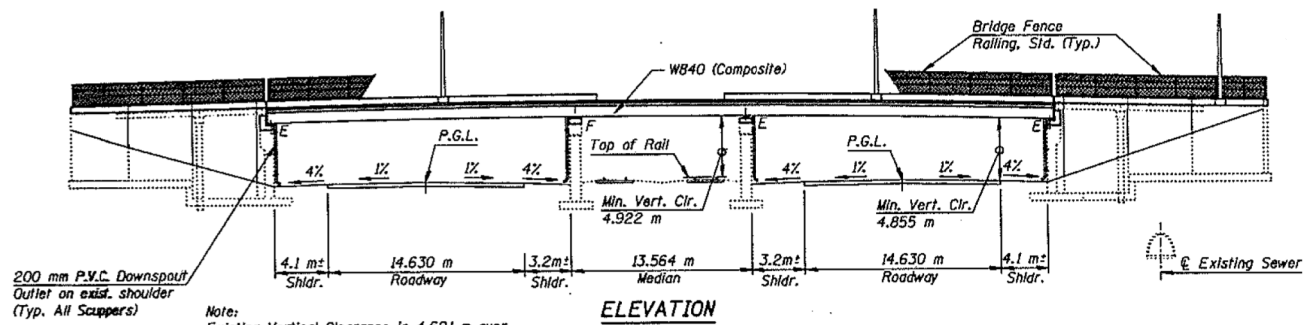


LONGITUDINAL PIPE  
SUPPORT DETAIL



PIPE AT DIAPHRAGMS

NOTE-A  
Top of Drain Pipe to be  
1/8" (Min.) or 1/2" (Max.)  
below the bottom of  
interior diaphragms.

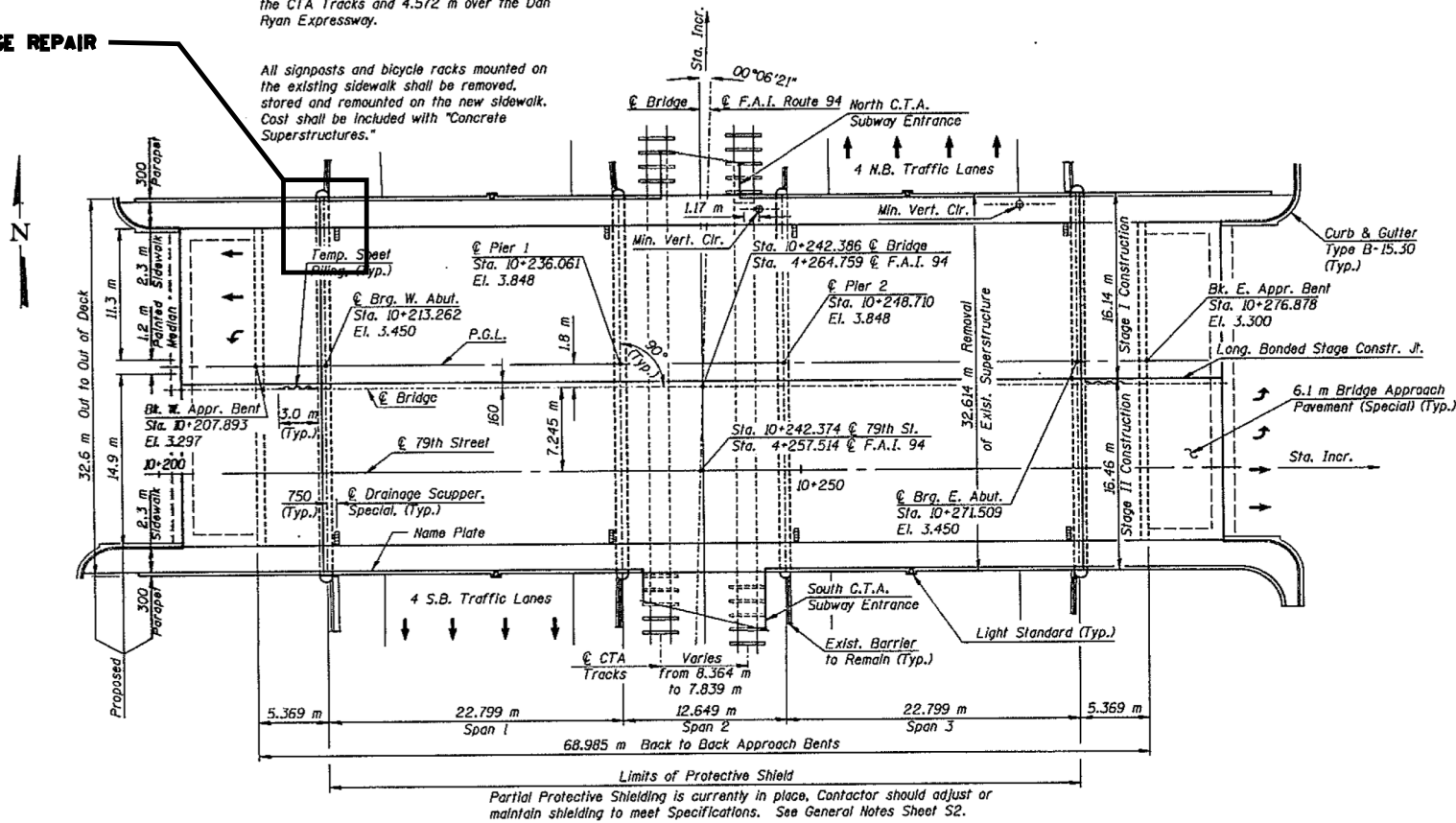


Note:  
Existing Vertical Clearance is 4.621 m over the CTA Tracks and 4.572 m over the Dan Ryan Expressway.

ELEVATION

LOCATION OF DRAINAGE REPAIR

All signposts and bicycle racks mounted on the existing sidewalk shall be removed, stored and remounted on the new sidewalk. Cost shall be included with "Concrete Superstructures."



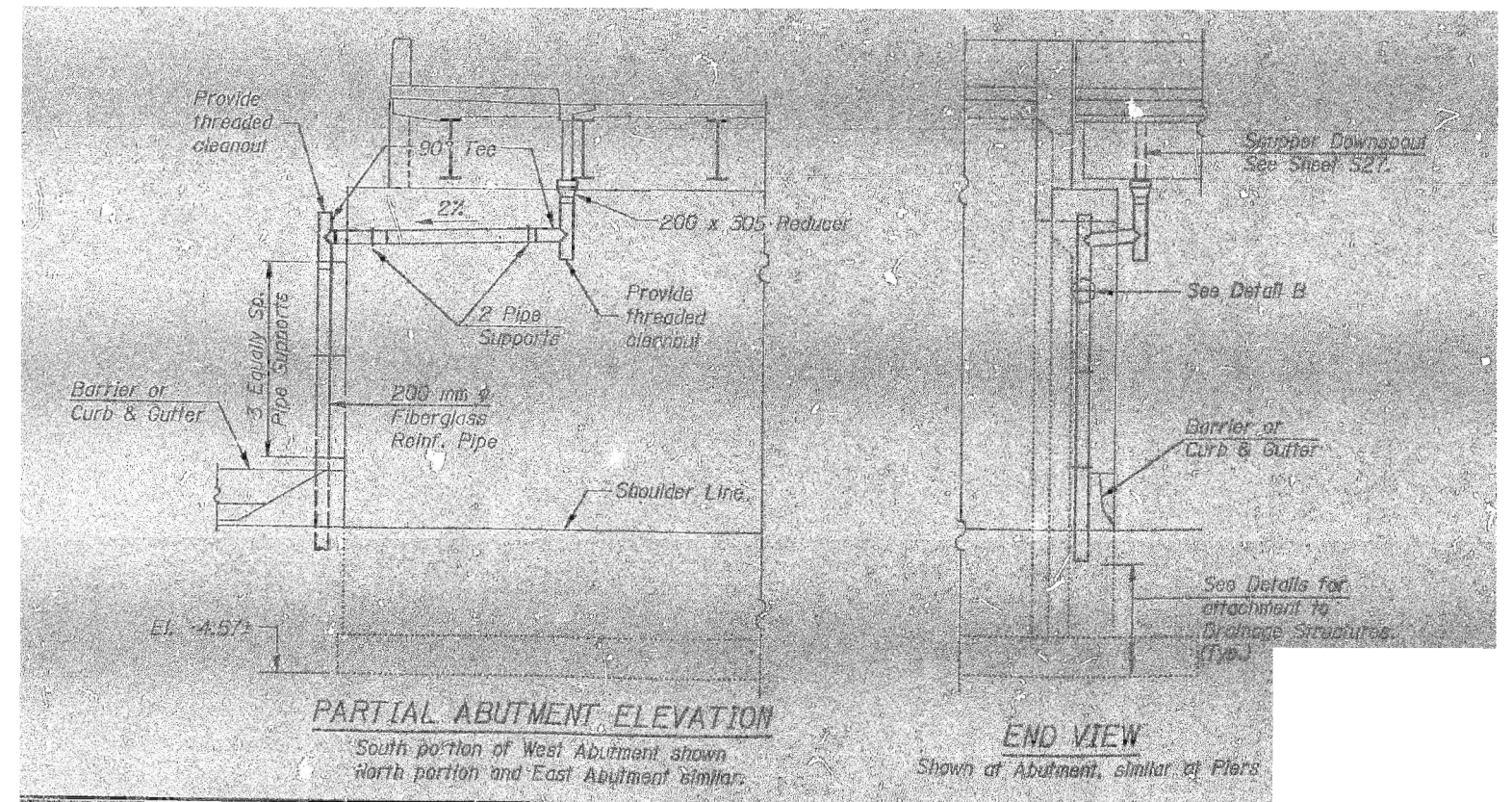
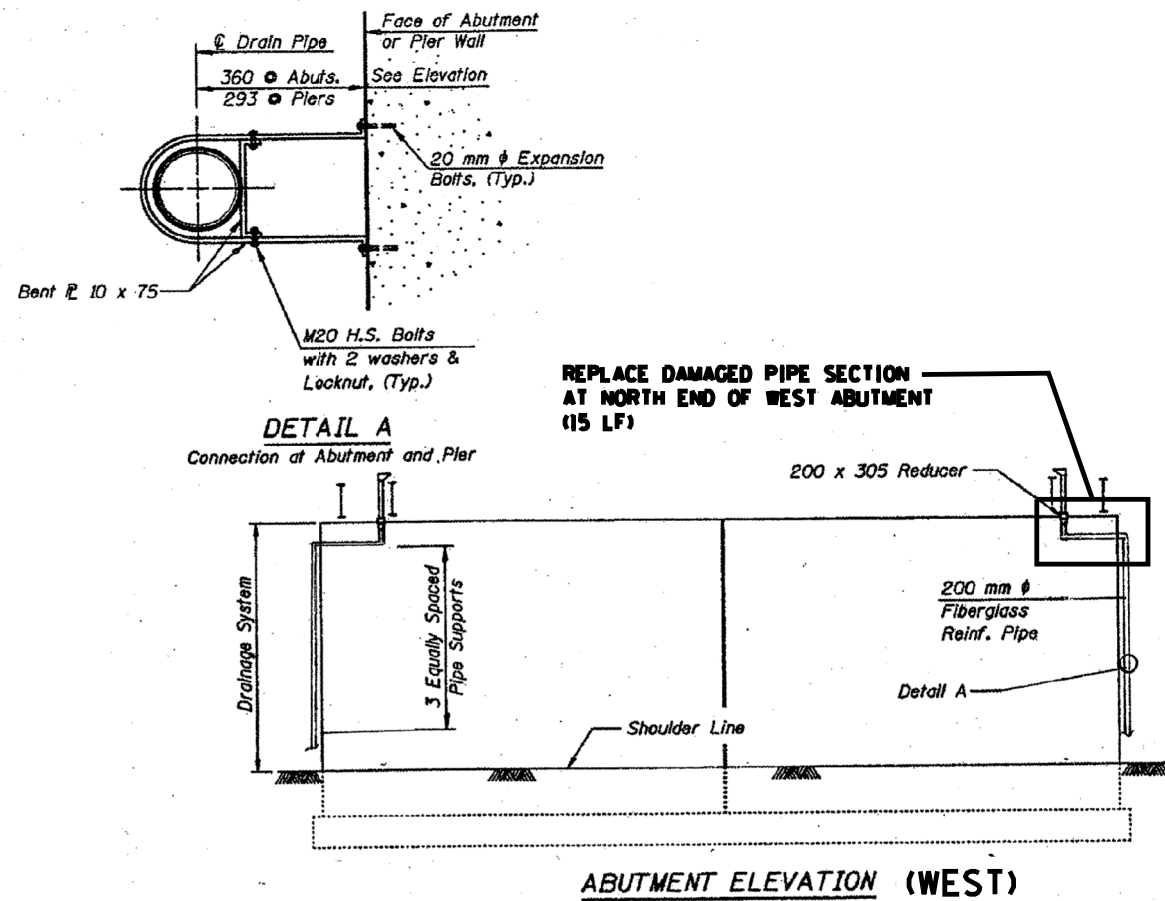
PLAN

BILL OF MATERIAL (S.N. 016-1144)  
79TH ST OVER DAN RYAN

| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 15       |

|             |                    |            |           |                                                   |                                                         |        |                     |      |         |           |           |        |              |           |
|-------------|--------------------|------------|-----------|---------------------------------------------------|---------------------------------------------------------|--------|---------------------|------|---------|-----------|-----------|--------|--------------|-----------|
| FILE NAME = | USER NAME = dahhnr | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 20 (SN 016-1144)<br>GENERAL PLAN AND ELEVATION | SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA. | F.A. RTE. | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| Default     |                    |            |           |                                                   |                                                         |        |                     |      |         | VAR.      | 2016-091T | COOK   | 69           | 58        |
|             |                    |            |           |                                                   |                                                         |        |                     |      |         |           |           |        |              |           |
|             |                    |            |           |                                                   |                                                         |        |                     |      |         |           |           |        |              |           |

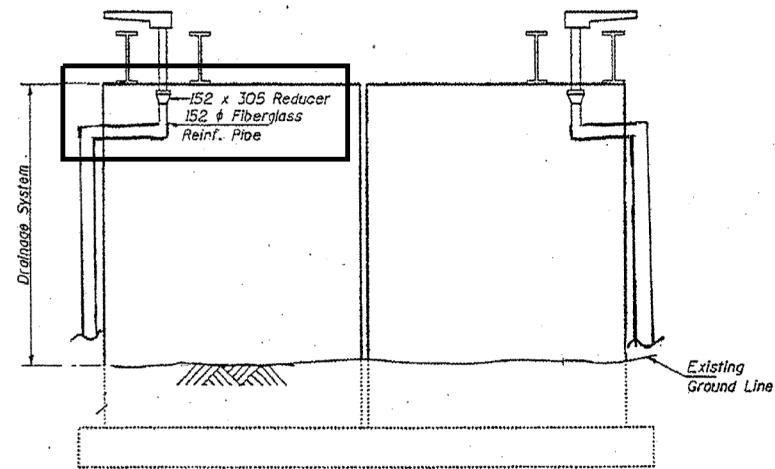




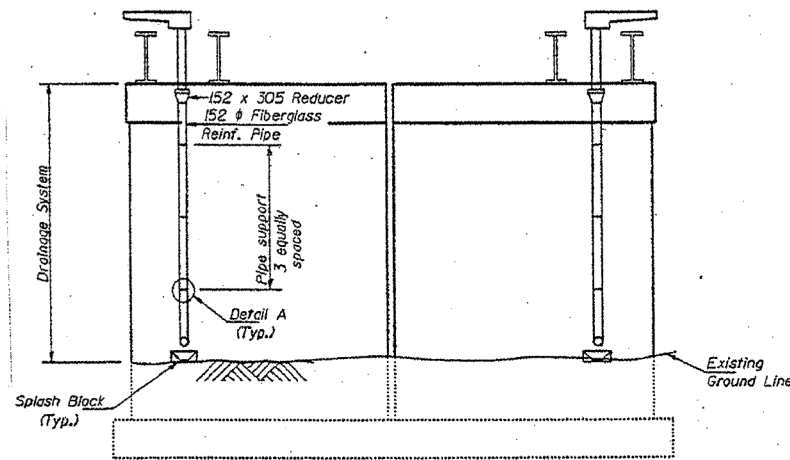
|                                                                                                                                    |                     |            |           |                                                   |                                               |  |                    |           |        |              |              |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------|-----------|---------------------------------------------------|-----------------------------------------------|--|--------------------|-----------|--------|--------------|--------------|
| FILE NAME =                                                                                                                        | USER NAME = dahharr | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 20 (SN 016-1144)<br>DRAINAGE DETAILS |  | F.A. RTE.          | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO.    |
| p:\1\1084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\100T Offices\District 1\Projects\011481\Drawings\Design\0114817-shr-LOCATIONS 17 |                     | REVIEWED - | REVIS     |                                                   |                                               |  | VAR.               | 2016-091T | COOK   | 69           | 59           |
| Default                                                                                                                            |                     | CHECKED -  | REVISED - |                                                   |                                               |  | CONTRACT NO. 62093 |           |        |              |              |
|                                                                                                                                    |                     | DATE -     | REVISED - |                                                   |                                               |  | SCALE:             | SHEET 2   | OF 2   | SHEETS       | STA. TO STA. |

ILLINOIS FED. AID PROJECT



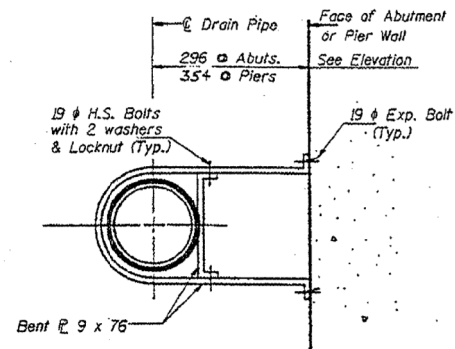


**ELEVATION  
ABUTMENTS (WEST)**

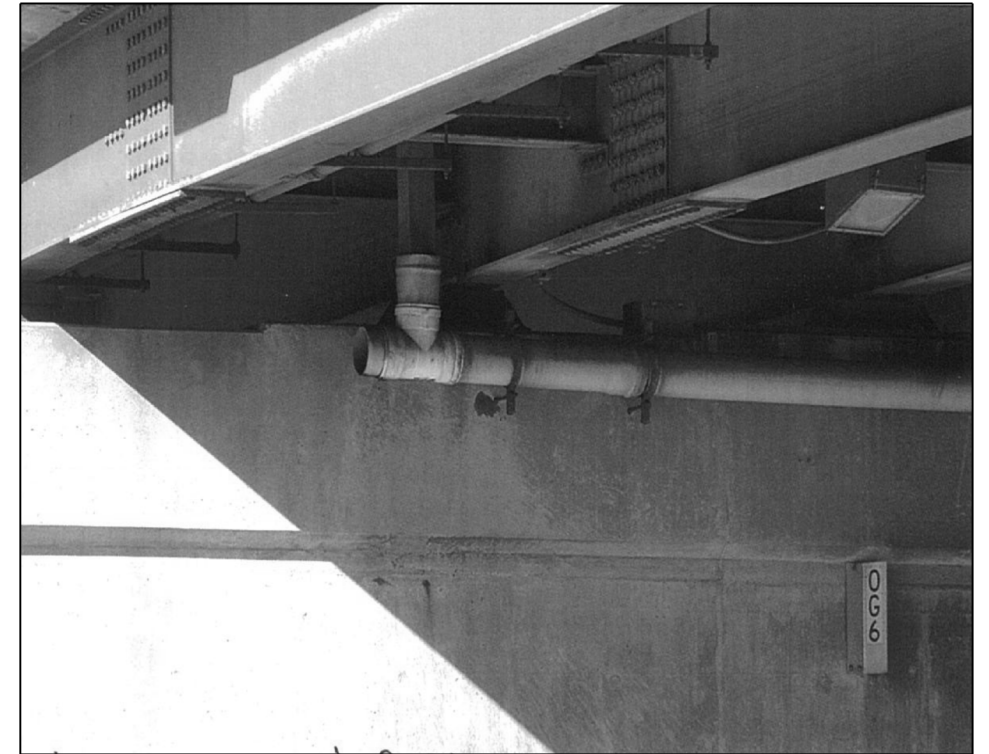


**ELEVATION  
PIERS**

For Drainage Scupper Details  
see shts. #16 & 17 of 32.



**DETAIL A**  
Connection at Abutment and Pier Wall.

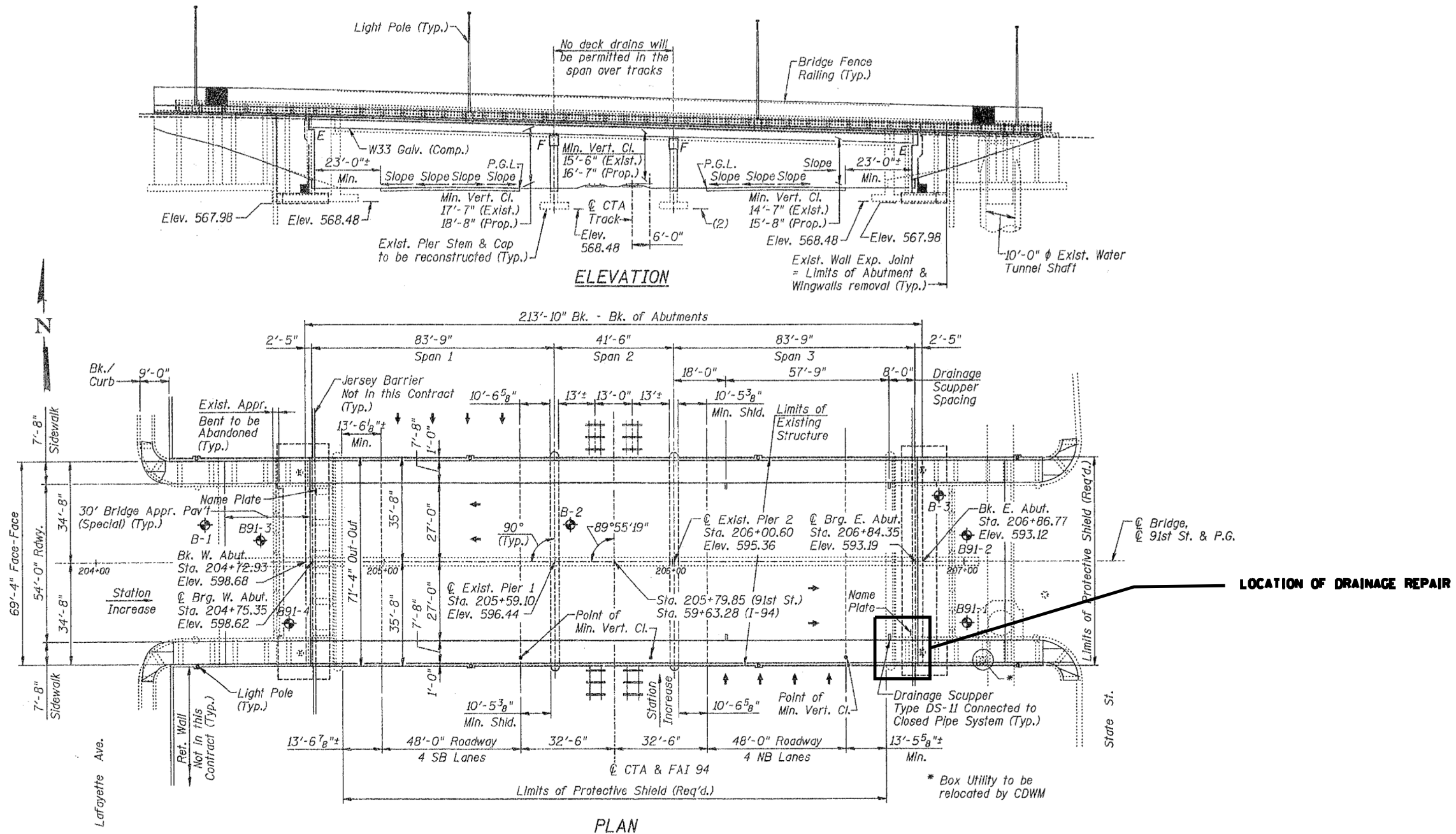


**016-1142 PHOTO #1**  
**PIER 2 - EAST FACE - SOUTH END**



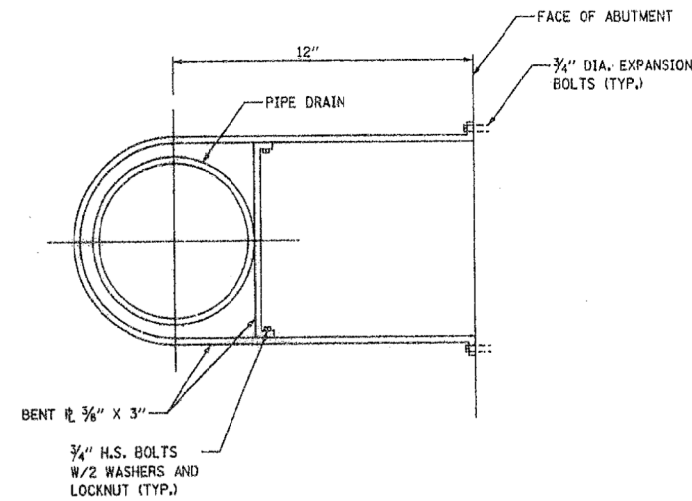
**016-1142 PHOTO #2**  
**WEST ABUTMENT - SOUTH END**

|                                                                                                                                |                     |                              |           |                                                                 |                                                             |         |             |                    |           |                           |              |           |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|-----------|-----------------------------------------------------------------|-------------------------------------------------------------|---------|-------------|--------------------|-----------|---------------------------|--------------|-----------|
| FILE NAME =                                                                                                                    | USER NAME = dahharr | DESIGNED -                   | REVISED - | <b>STATE OF ILLINOIS</b><br><b>DEPARTMENT OF TRANSPORTATION</b> | <b>LOCATION 21 (SN 016-1142)</b><br><b>DRAINAGE DETAILS</b> |         |             | F.A. RTE.          | SECTION   | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| p:\11\084EBID\INTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI1481\Drawings\Design\DI14817-shd-LOCATIONS |                     | DESIGNED -                   | REVISED - |                                                                 |                                                             |         |             | VAR.               | 2016-091T | COOK                      | 69           | 61        |
| Default                                                                                                                        |                     | PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED -                                                       |                                                             |         |             | CONTRACT NO. 62093 |           |                           |              |           |
|                                                                                                                                |                     | PLOT DATE = 12/21/2016       | DATE -    | REVISED -                                                       | SCALE:                                                      | SHEET 2 | OF 2 SHEETS | STA.               | TO STA.   | ILLINOIS FED. AID PROJECT |              |           |

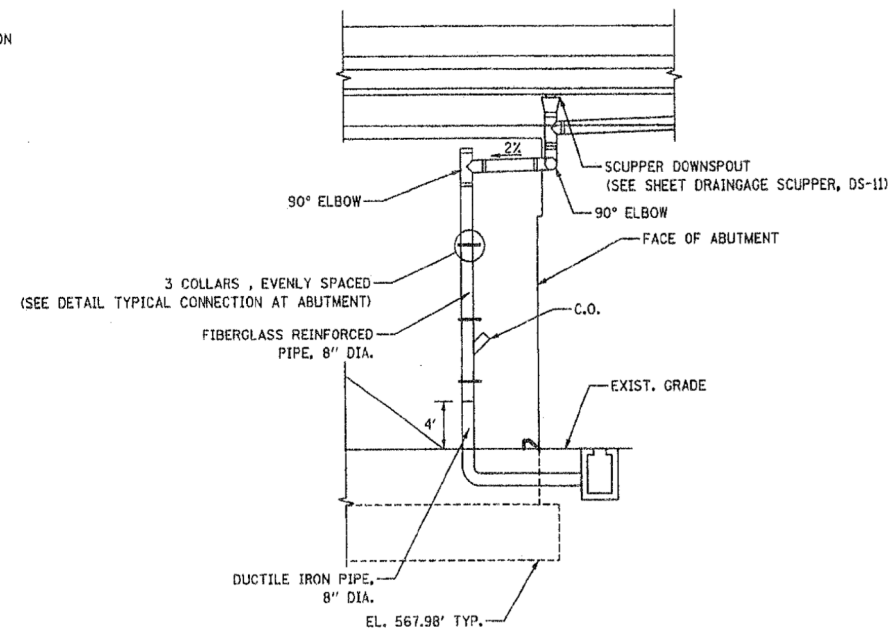


BILL OF MATERIAL (S.N. 016-1141)  
91ST ST OVER DAN RYAN

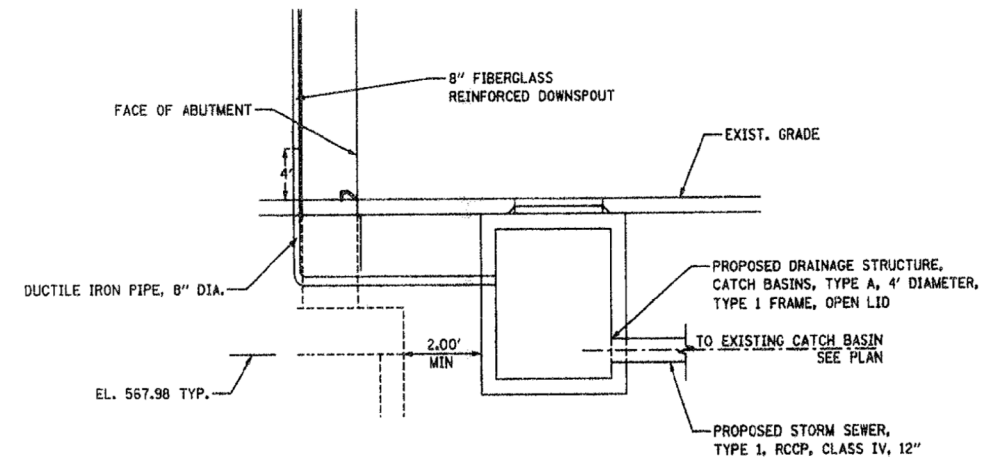
| ITEM                           | UNIT | QUANTITY |
|--------------------------------|------|----------|
| BRIDGE DRAINAGE SYSTEM REPAIRS | FOOT | 10       |



DETAIL (CONNECTION AT ABUTMENT)

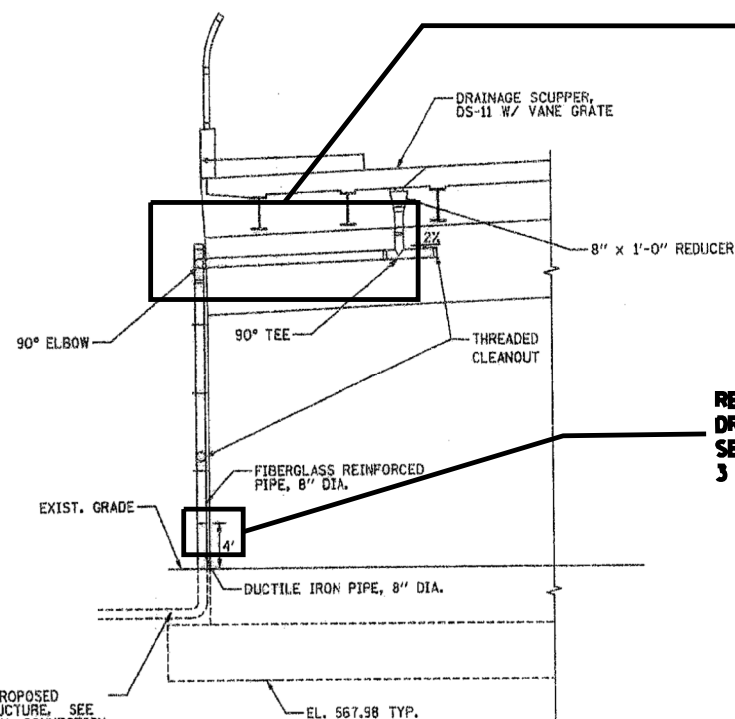


END VIEW



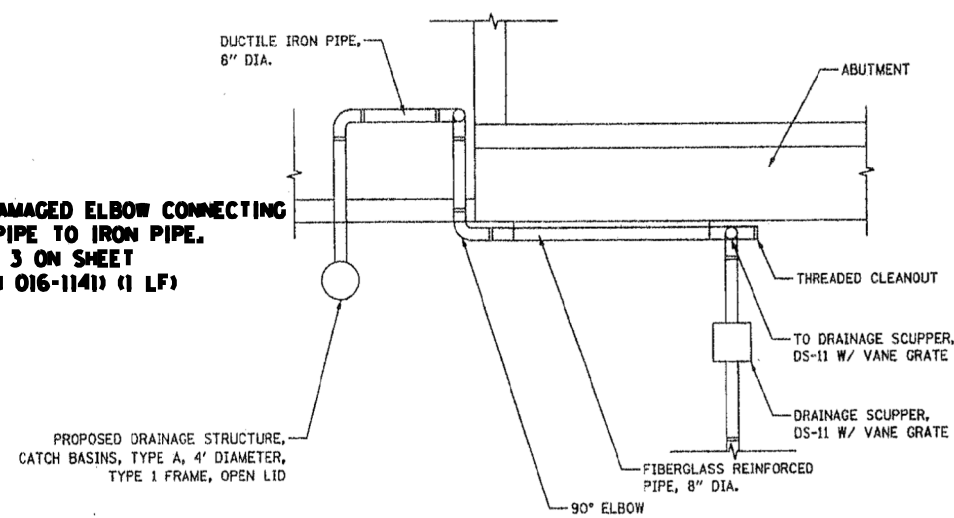
DETAIL (TYPICAL CONNECTION OF DOWNSPOUT  
TO I-94 DRAINAGE)

REPLACE DAMAGED/MISSING  
DRAINAGE PIPE.  
SEE PHOTOS 1 AND 2 ON SHEET  
3 OF 3 (SN 016-1141) (9 LF)



PARTIAL ABUTMENT DETAIL

REPLACE DAMAGED ELBOW CONNECTING  
DRAINAGE PIPE TO IRON PIPE.  
SEE PHOTO 3 ON SHEET  
3 OF 3 (SN 016-1141) (1 LF)



PLAN VIEW

CONNECT TO PROPOSED  
DRAINAGE STRUCTURE. SEE  
DETAIL (TYPICAL CONNECTION  
OF DOWNSPOUT TO I-94  
DRAINAGE) ABOVE.

|             |                    |            |           |                                                   |                                               |      |                           |           |         |                 |              |
|-------------|--------------------|------------|-----------|---------------------------------------------------|-----------------------------------------------|------|---------------------------|-----------|---------|-----------------|--------------|
| FILE NAME = | USER NAME = dahhnr | DESIGNED - | REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | LOCATION 22 (SN 016-1141)<br>DRAINAGE DETAILS |      | F.A.<br>RTE.              | SECTION   | COUNTY  | TOTAL<br>SHEETS | SHEET<br>NO. |
| Default     | Default            | CHECKED -  | REVISED - |                                                   |                                               |      | VAR.                      | 2016-091T | COOK    | 69              | 63           |
|             |                    | DATE -     | REVISED - |                                                   |                                               |      | CONTRACT NO. 62D93        |           |         |                 |              |
|             |                    |            |           |                                                   |                                               |      | ILLINOIS FED. AID PROJECT |           |         |                 |              |
|             |                    |            |           | SCALE:                                            | SHEET 2                                       | OF 3 | SHEETS                    | STA.      | TO STA. |                 |              |





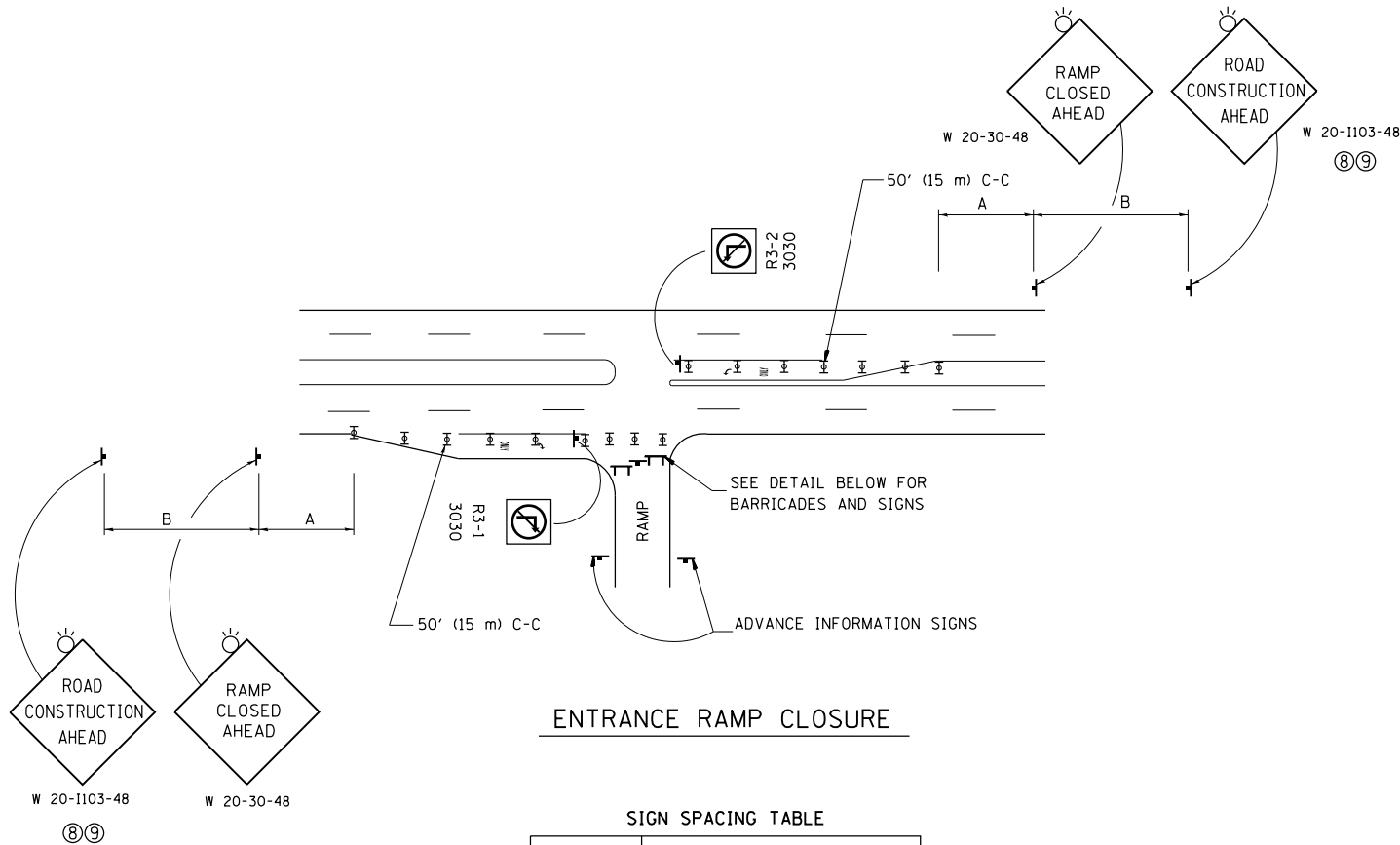
016-1141 PHOTO #1  
EAST ABUTMENT \_ SOUTH END



016-1141 PHOTO #2  
EAST ABUTMENT \_ SOUTH END

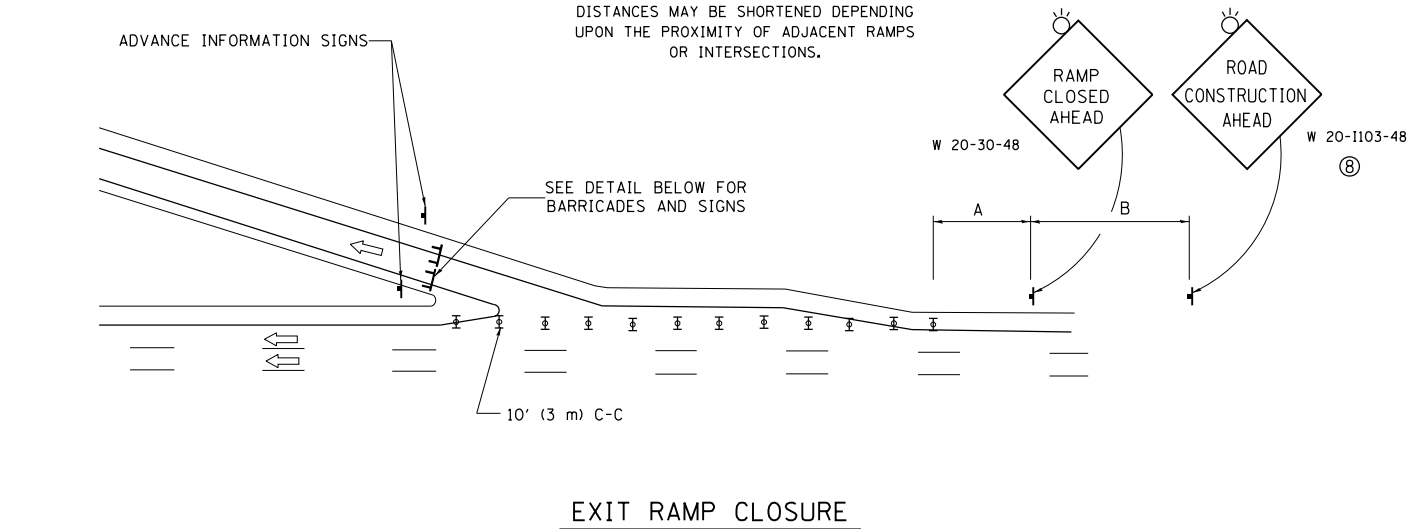


016-1141 PHOTO #3  
EAST ABUTMENT \_ SOUTH END

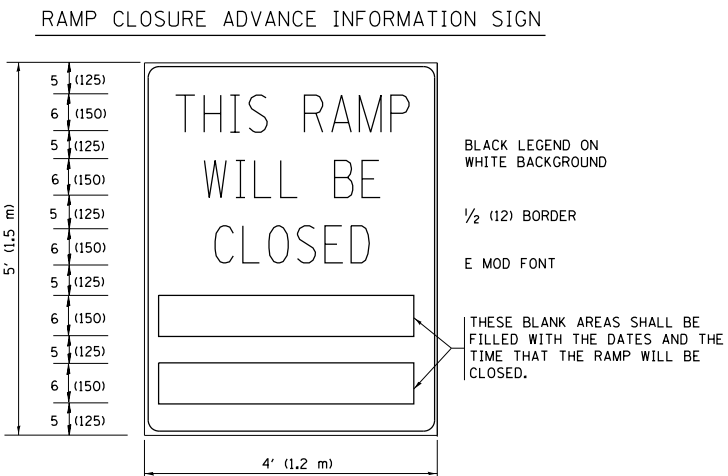
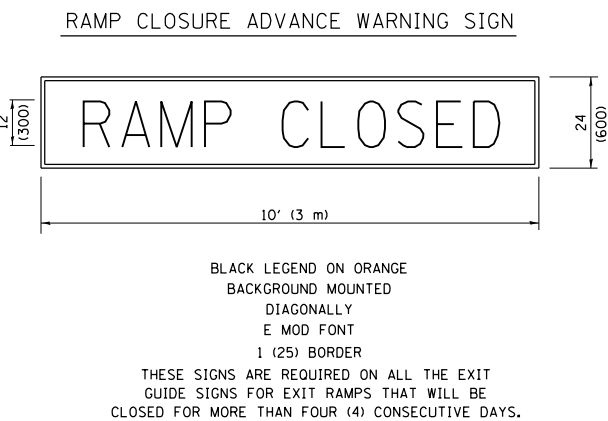
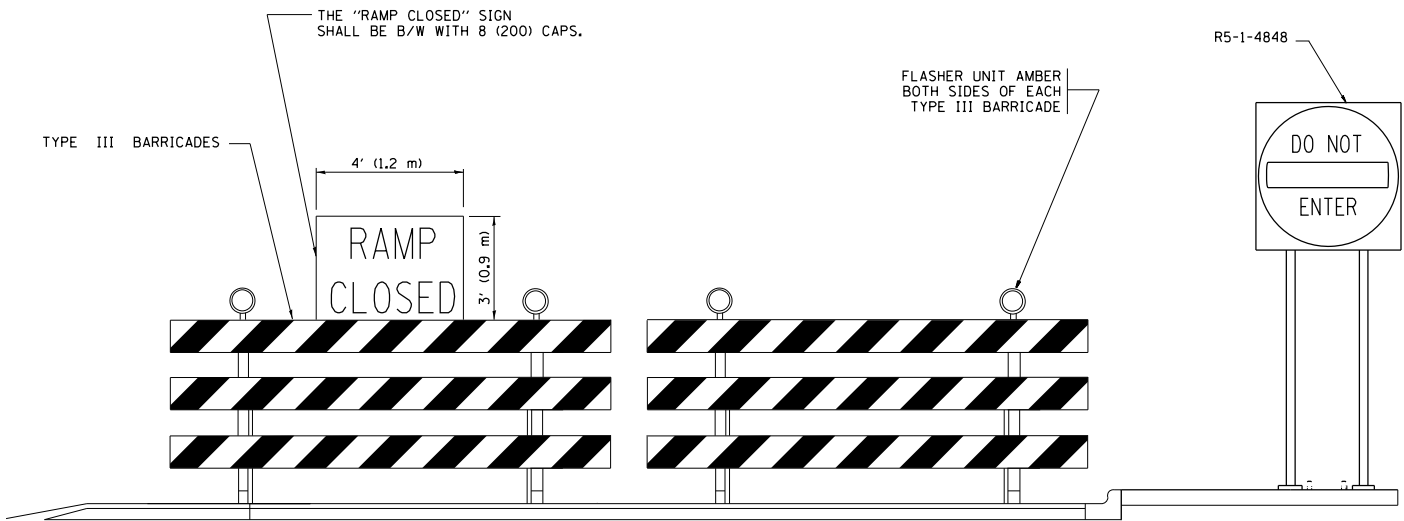


| FACILITY                | DISTANCE BETWEEN SIGNS |                  |
|-------------------------|------------------------|------------------|
|                         | A                      | B                |
| EXPRESSWAY<br>>24 HOURS | 1000'<br>(300 m)       | 1500'<br>(450 m) |
| EXPRESSWAY<br><24 HOURS | 500'<br>(150 m)        | 500'<br>(150 m)  |
| ARTERIAL<br>55 MPH      | 500'<br>(150 m)        | 500'<br>(150 m)  |
| ARTERIAL<br>50-45 MPH   | 350'<br>(100 m)        | 350'<br>(100 m)  |
| ARTERIAL<br><45 MPH     | 200'<br>(60 m)         | 200'<br>(60 m)   |

DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



- SYMBOLS**
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
  - TYPE III BARRICADE WITH 2 FLASHING LIGHTS



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.  
THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

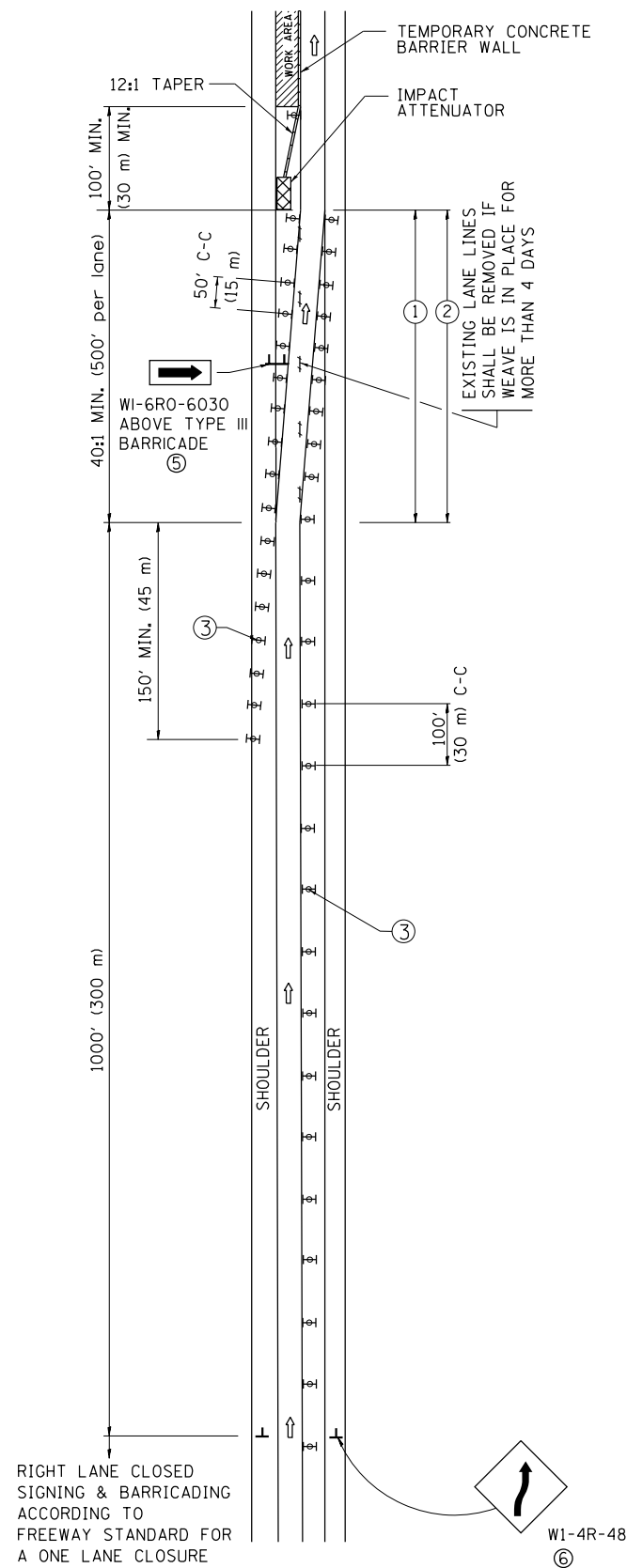
**GENERAL NOTES:**

- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

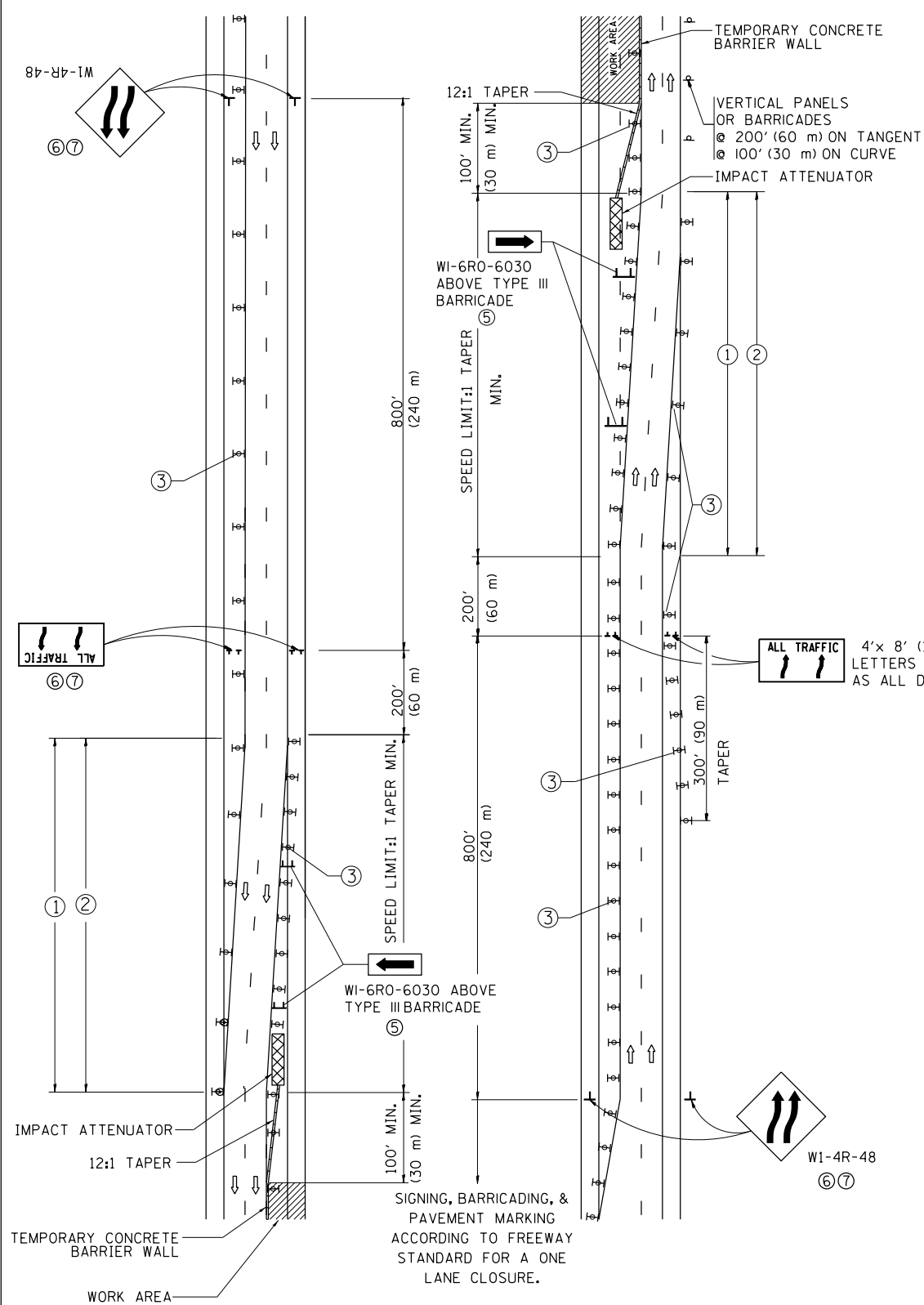
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

|                                                                                                                     |                                |                |                     |                                                               |                                           |                         |              |                                                     |           |                    |              |           |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------|---------------------|---------------------------------------------------------------|-------------------------------------------|-------------------------|--------------|-----------------------------------------------------|-----------|--------------------|--------------|-----------|
| FILE NAME =                                                                                                         | USER NAME = dahharr            | DESIGNED - DWS | REVISED - JAF 02-06 | <div>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</div> | ENTRANCE AND EXIT RAMP<br>CLOSURE DETAILS |                         |              | F.A. RTE.                                           | SECTION   | COUNTY             | TOTAL SHEETS | SHEET NO. |
| p:\1\1084EBID\INTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI148\Drawings\Design\DistStd.dgn |                                |                | REVISED - SPB 01-07 |                                                               |                                           |                         |              | VAR.                                                | 2016-091T | COOK               | 69           | 65        |
|                                                                                                                     | PLOT SCALE = 100.0000' / 1 in. | CHECKED -      | REVISED - SPB 12-09 |                                                               |                                           |                         |              | TC-08                                               |           | CONTRACT NO. 62D93 |              |           |
|                                                                                                                     | PLOT DATE = 12/21/2016         | DATE - 02-83   | REVISED - MD 06-13  |                                                               | SCALE: NONE                               | SHEET NO. 1 OF 1 SHEETS | STA. TO STA. | FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT |           |                    |              |           |

## SINGLE LANE WEAVE



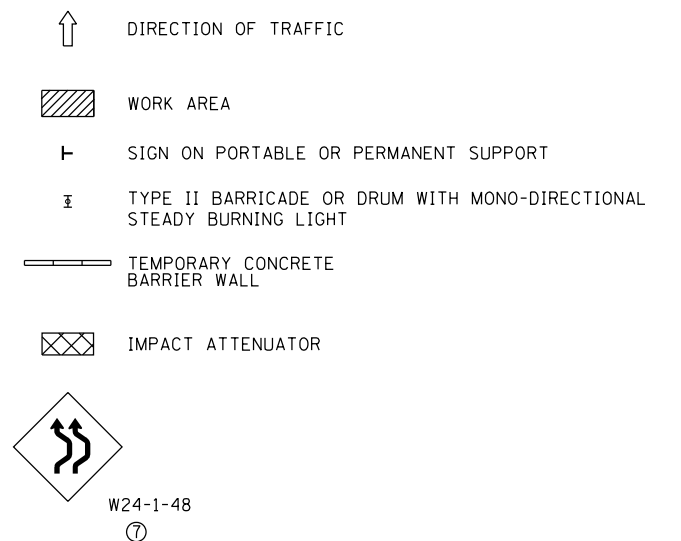
## MULTI-LANE WEAVE



### GENERAL NOTES

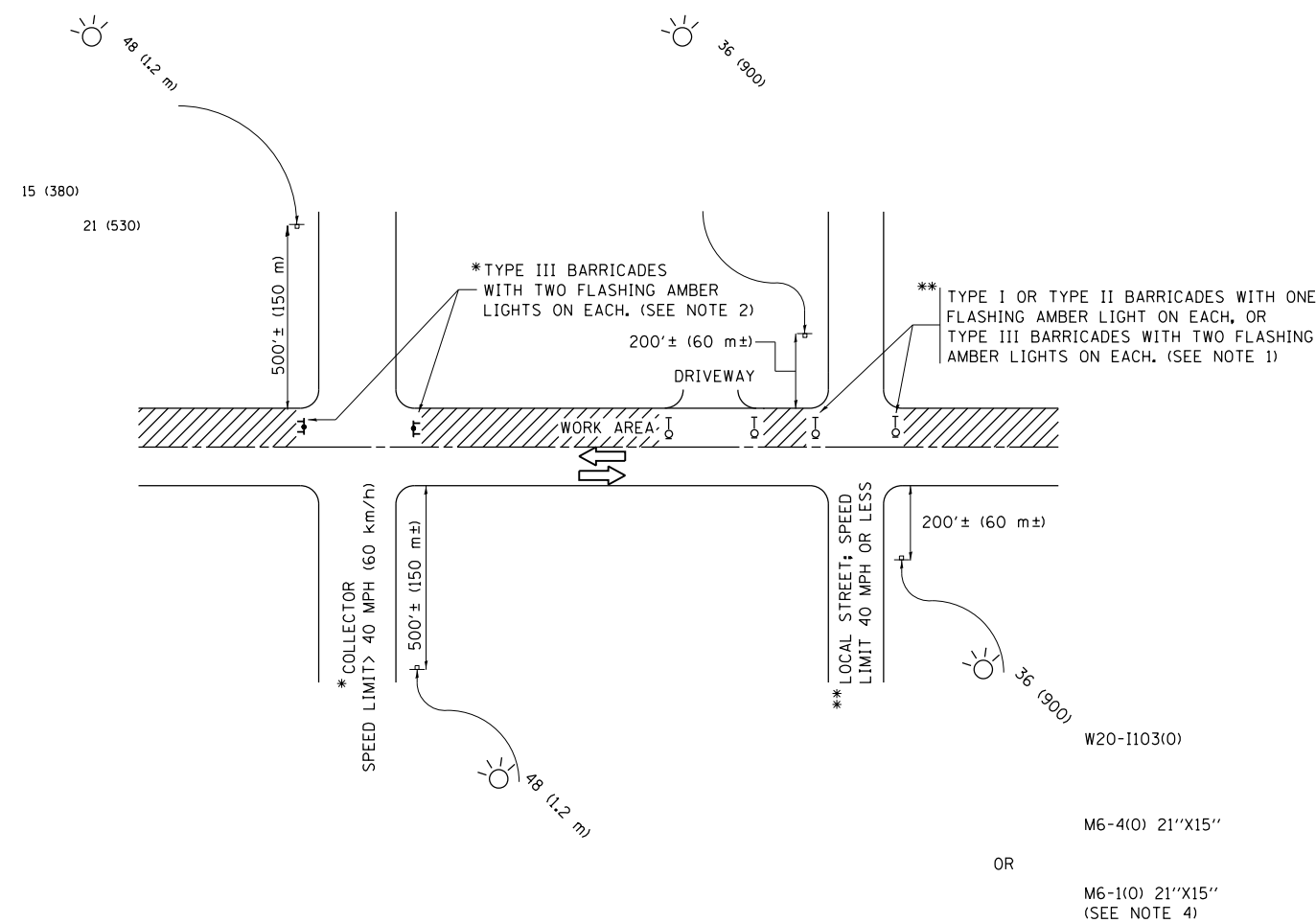
- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA 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.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ 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.
- ⑥ 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.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

## SYMBOLS



ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN

|                                                                                                                      |                     |                     |                     |                                                               |                                                                  |              |  |                                                 |           |         |        |              |           |
|----------------------------------------------------------------------------------------------------------------------|---------------------|---------------------|---------------------|---------------------------------------------------------------|------------------------------------------------------------------|--------------|--|-------------------------------------------------|-----------|---------|--------|--------------|-----------|
| FILE NAME =                                                                                                          | USER NAME = dahhanr | DESIGNED - DWS      | REVISED - JAF 02-06 | <div>STATE OF ILLINOIS<br/>DEPARTMENT OF TRANSPORTATION</div> | TRAFFIC CONTROL DETAILS FOR<br>FREEWAY SINGLE & MULTI-LANE WEAVE |              |  |                                                 | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| pwt\NL084EBIDINTEGallinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\0114\0114\DWG\Note\Design\DistStd.dgn |                     | REVISION            | REVISOR             |                                                               |                                                                  | 2016-091T    |  | 69                                              | 66        |         |        |              |           |
| PLOT SCALE = 100.0000' / in.                                                                                         | CHECKED -           | REVISED - SPB 12-09 |                     |                                                               | <div>TC-09<br/>CONTRACT NO. 62D93</div>                          |              |  |                                                 |           |         |        |              |           |
| PLOT DATE = 12/21/2016                                                                                               | DATE = 02-87        | REVISED - MD 06-13  |                     |                                                               |                                                                  |              |  |                                                 |           |         |        |              |           |
| SCALE: NONE                                                                                                          |                     |                     |                     | SHEET NO. 1 OF 1 SHEETS                                       |                                                                  | STA. TO STA. |  | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |         |        |              |           |



**NOTES:**

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

|                                                                                                                       |                              |                   |                                  |                                                   |                                                                                |           |                    |      |              |                           |         |                 |              |  |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------|----------------------------------|---------------------------------------------------|--------------------------------------------------------------------------------|-----------|--------------------|------|--------------|---------------------------|---------|-----------------|--------------|--|
| FILE NAME =                                                                                                           | USER NAME = dahharr          | DESIGNED - L.H.A. | REVISED - A. HOUSEH 10-15-96     | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | TRAFFIC CONTROL AND PROTECTION FOR<br>SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS |           |                    |      | F.A.<br>RTE. | SECTION                   | COUNTY  | TOTAL<br>SHEETS | SHEET<br>NO. |  |
| pwt\1\084EBID\INTEG\Illinois.gov\PI\DOT\Documents\IDOT Offices\District 1\Projects\DI1481\Drawings\Design\DistStd.dgn |                              |                   | REVISED - T. RAMMACHERR 01-06-00 |                                                   | VAR.                                                                           | 2016-091T | COOK               | 69   | 67           |                           |         |                 |              |  |
|                                                                                                                       | PLOT SCALE = 100.0000' / in. | CHECKED -         | REVISED - A. SCHUETZE 07-01-13   |                                                   | TC-10                                                                          |           | CONTRACT NO. 62D93 |      |              |                           |         |                 |              |  |
| Default                                                                                                               | PLOT DATE = 12/21/2016       | DATE - 06-89      | REVISED - A. SCHUETZE 09-15-16   |                                                   | SCALE: NONE                                                                    |           | SHEET 1            | OF 1 | SHEETS       | STA.                      | TO STA. |                 |              |  |
|                                                                                                                       |                              |                   |                                  |                                                   |                                                                                |           |                    |      |              | ILLINOIS FED. AID PROJECT |         |                 |              |  |

TURN BAY ENTRANCE AT START  
OF LANE CLOSURE TAPER

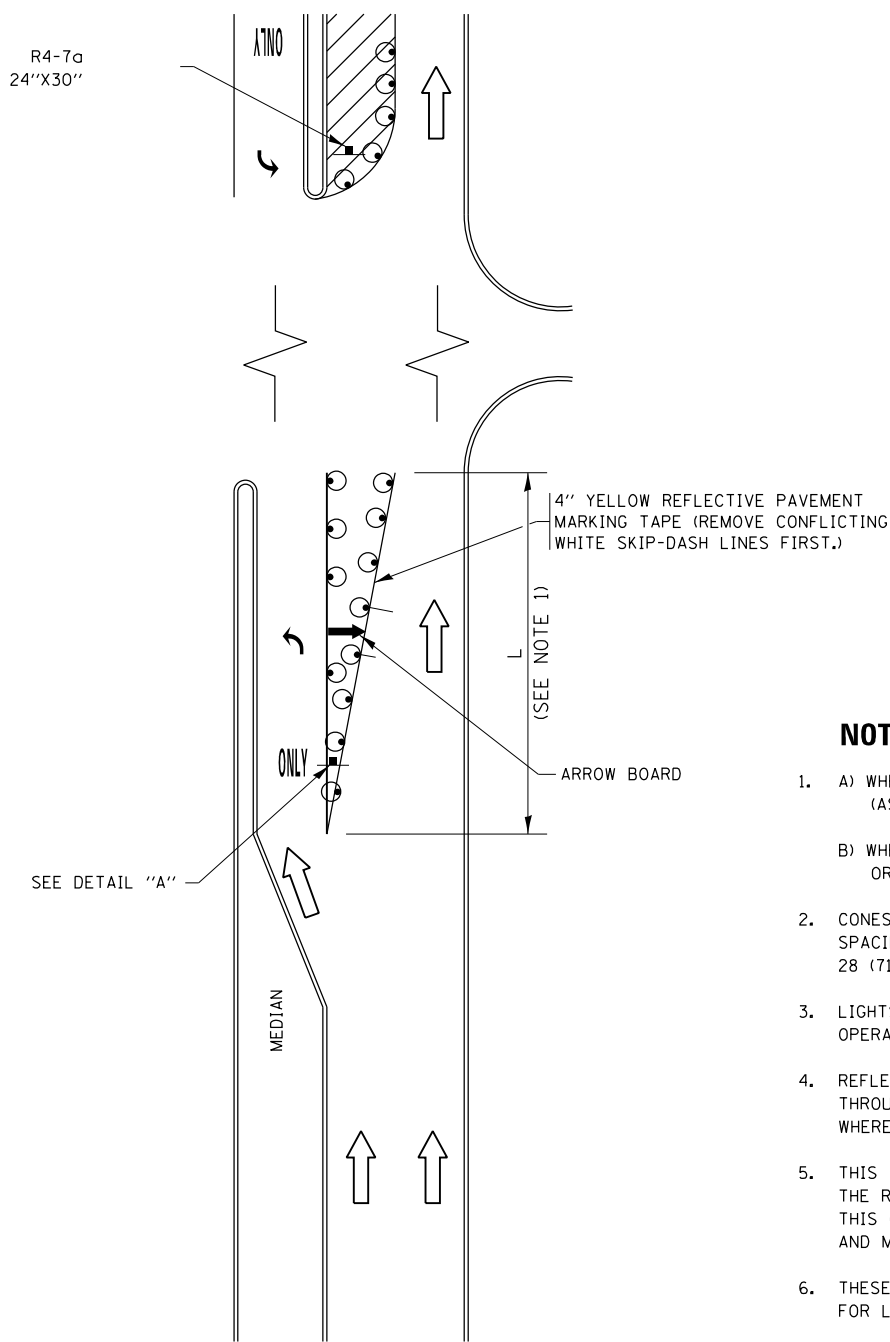
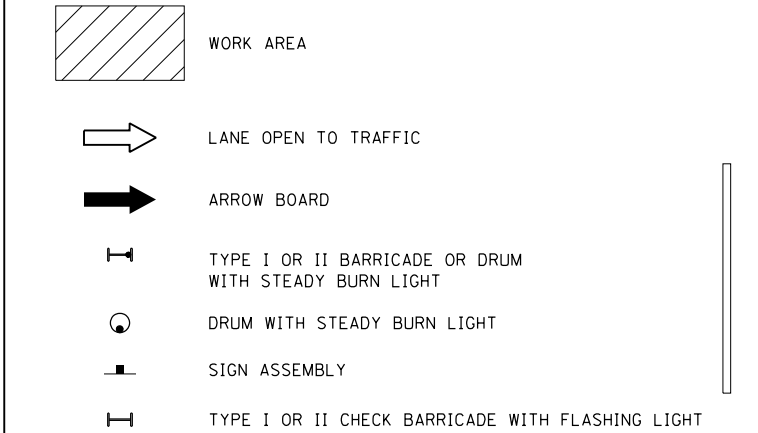


FIGURE 1

LEGEND



NOTES:

1. A) WHEN "L" IS  $\leq$  THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.  
B) WHEN "L" IS  $>$  THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE  
WITHIN A LANE CLOSURE

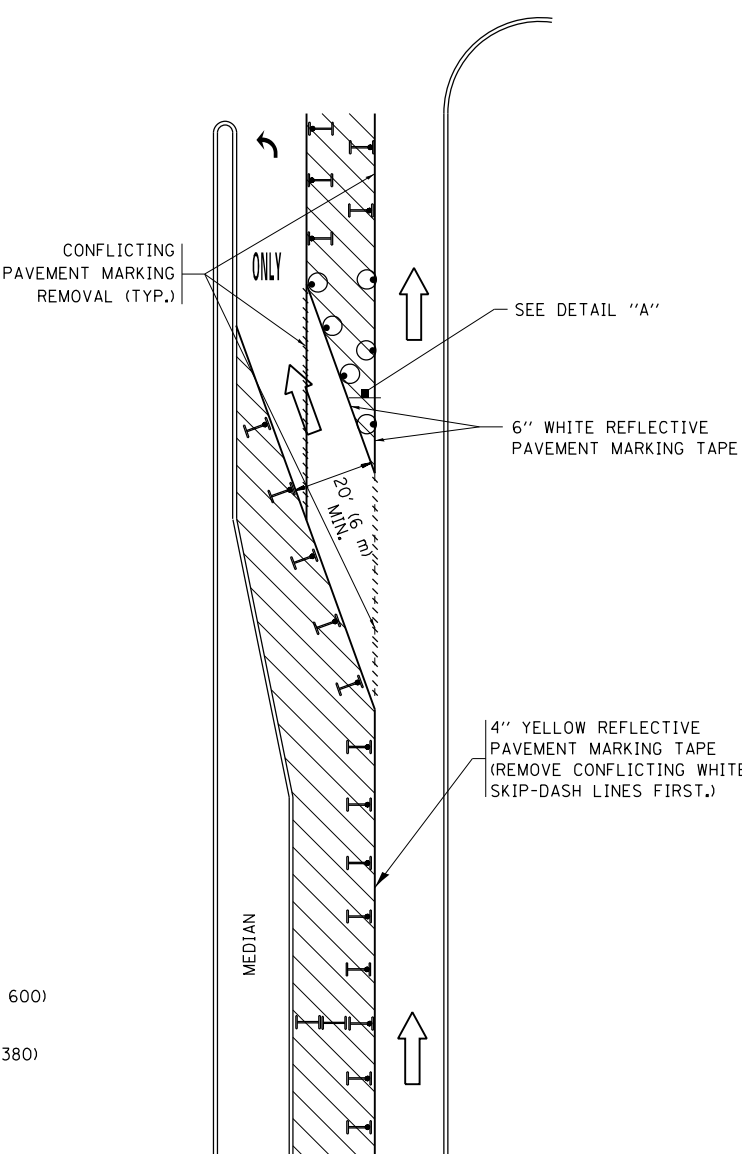
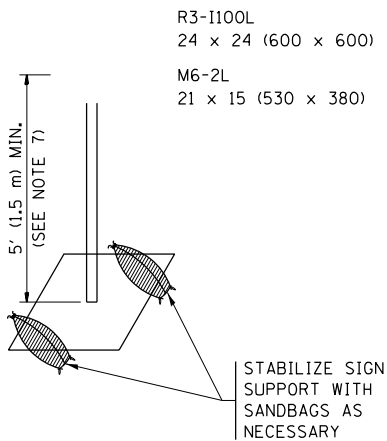


FIGURE 2



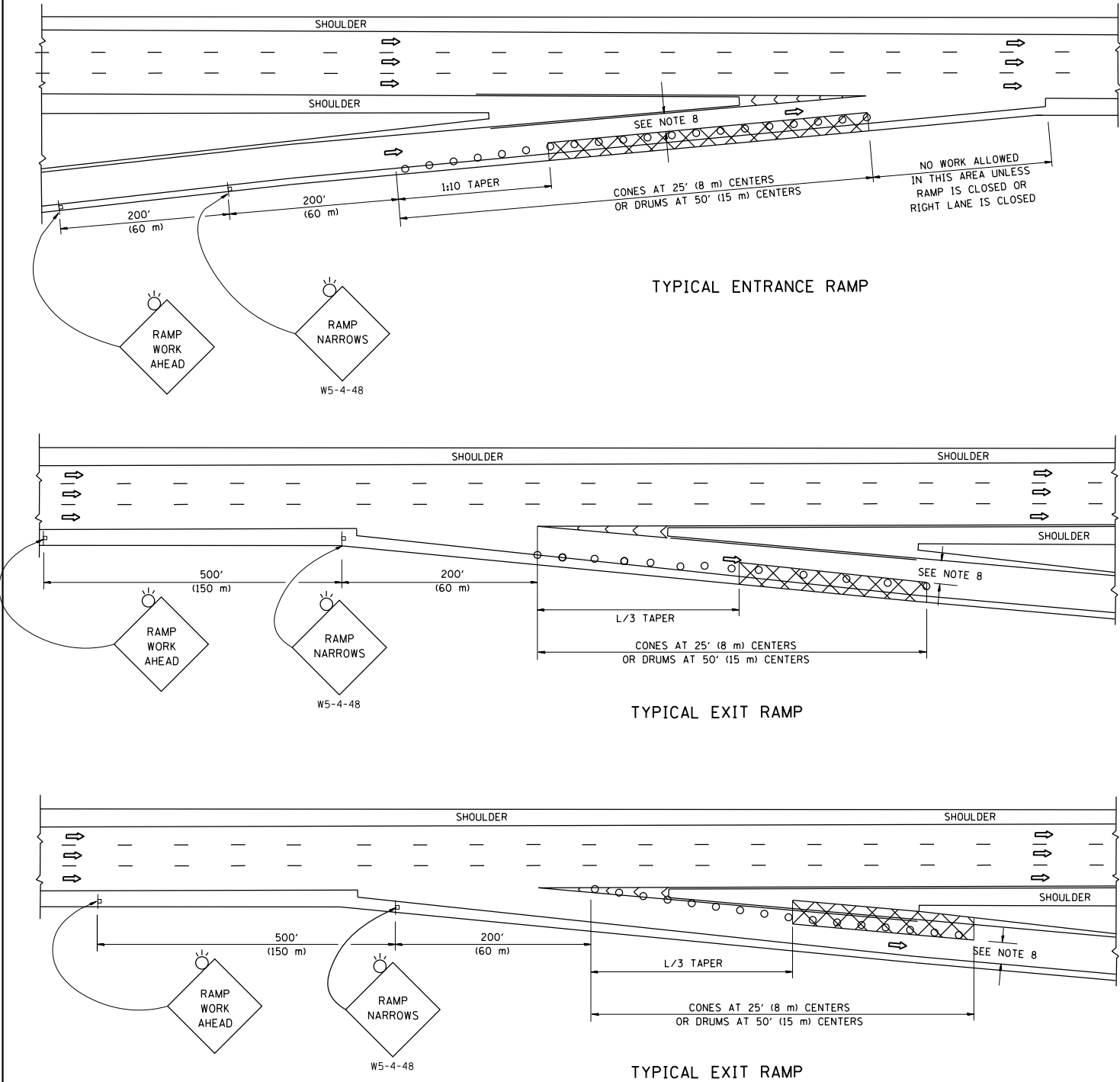
DETAIL A

All dimensions are in inches (millimeters) unless otherwise shown.

|                                                                                                                                              |                     |                                 |                                |                                                   |                                                                            |         |      |        |           |                           |        |              |           |    |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------|--------------------------------|---------------------------------------------------|----------------------------------------------------------------------------|---------|------|--------|-----------|---------------------------|--------|--------------|-----------|----|
| FILE NAME =                                                                                                                                  | USER NAME = dahharr | REVISED - T. RAMMACHER 09-08-94 | REVISED - R. BORO 09-14-09     | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | TRAFFIC CONTROL AND PROTECTION AT TURN BAYS<br>(TO REMAIN OPEN TO TRAFFIC) |         |      |        | F.A. RTE. | SECTION                   | COUNTY | TOTAL SHEETS | SHEET NO. |    |
| p:\1\11084EBIDINTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI148\REVISED Design\A-11084EBIDINTEG\A-11084EBIDINTEG.dwg |                     | REVISED - A. HOUSEH 11-07-95    | REVISED - A. SCHUETZE 07-01-13 |                                                   | SCALE: NONE                                                                | SHEET 1 | OF 1 | SHEETS | STA.      | TO STA.                   | TC-14  | COOK         | 69        | 68 |
| PLOT SCALE = 100.0000' / in.                                                                                                                 |                     | REVISED - A. HOUSEH 10-12-96    | REVISED - A. SCHUETZE 09-15-16 |                                                   |                                                                            |         |      |        |           |                           |        |              |           |    |
| Default                                                                                                                                      |                     | REVISED - T. RAMMACHER 01-06-00 | REVISED -                      |                                                   |                                                                            |         |      |        |           |                           |        |              |           |    |
|                                                                                                                                              |                     |                                 |                                |                                                   |                                                                            |         |      |        |           | CONTRACT NO. 62093        |        |              |           |    |
|                                                                                                                                              |                     |                                 |                                |                                                   |                                                                            |         |      |        |           | ILLINOIS FED. AID PROJECT |        |              |           |    |



PARTIAL RAMP CLOSURE DETAILS



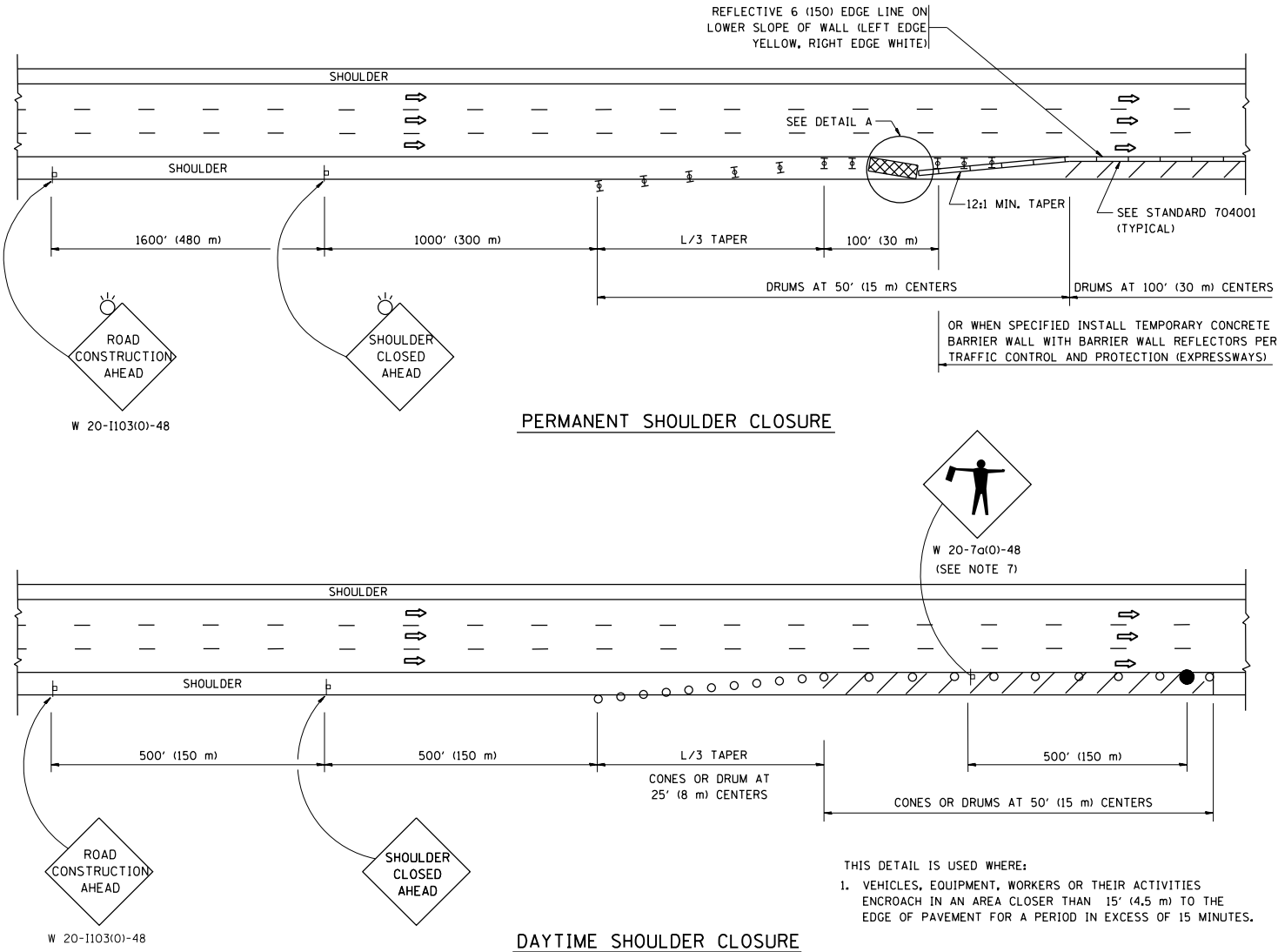
SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

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.

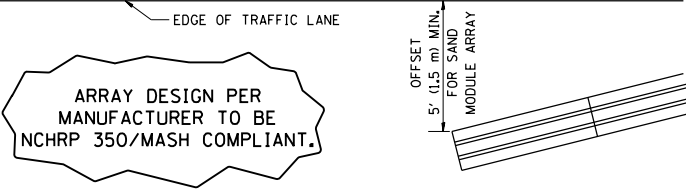
SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE

DAYTIME SHOULDER CLOSURE

- THIS DETAIL IS USED WHERE:
- VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



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

- THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
- 12' MIN. WIDTH TANGENT SECTION  
16' MIN. WIDTH CURVE SECTION.

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

|                                                                                                                     |                     |                              |                        |                                                                      |                                                                                    |                                                  |  |                    |                                                 |           |        |              |           |
|---------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------|--|--------------------|-------------------------------------------------|-----------|--------|--------------|-----------|
| FILE NAME =                                                                                                         | USER NAME = dahharr | DESIGNED -                   | REVISED - J.A.F. 12-06 | <div>STATE OF ILLINOIS</div> <div>DEPARTMENT OF TRANSPORTATION</div> | TRAFFIC CONTROL DETAILS FOR FREEWAY<br>SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES |                                                  |  |                    | F.A. RTE.                                       | SECTION   | COUNTY | TOTAL SHEETS | SHEET NO. |
| p:\11\084EBID\INTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI1481\Drawings\Design\DWG\SS.dgn |                     | CHECKED -                    | REVISED - S.P.B. 01-07 |                                                                      |                                                                                    |                                                  |  |                    | VAR.                                            | 2016-091T | COOK   | 69           | 69        |
|                                                                                                                     |                     | PLOT DATE = 10/00/00 ' / IN. | REVISED - S.P.B. 12-09 |                                                                      | TC-17                                                                              |                                                  |  | CONTRACT NO. 62D93 |                                                 |           |        |              |           |
|                                                                                                                     |                     | PLOT DATE = 12/21/2016       | DATE - 11-96           |                                                                      | REVISED - M.D. 06-13                                                               | SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. |  |                    | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |           |        |              |           |
|                                                                                                                     |                     |                              |                        |                                                                      |                                                                                    |                                                  |  |                    |                                                 |           |        |              |           |