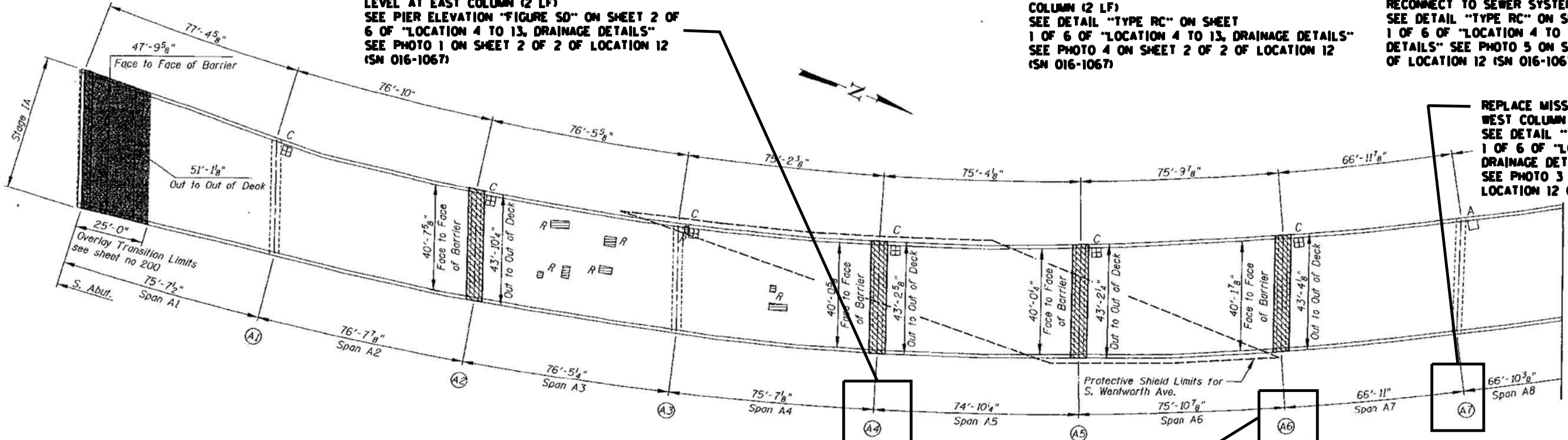


SN 016-1067 PARTIAL DECK PLAN

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)

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

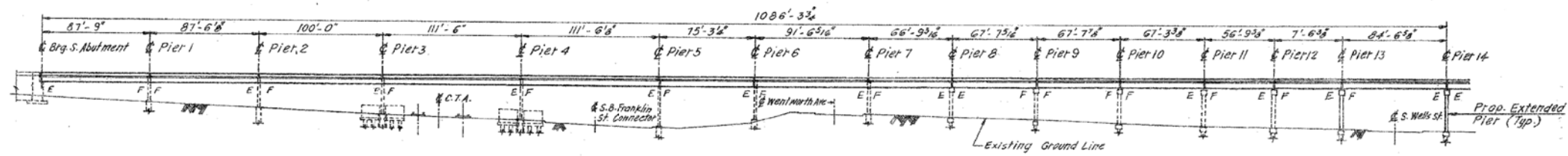
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/15/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

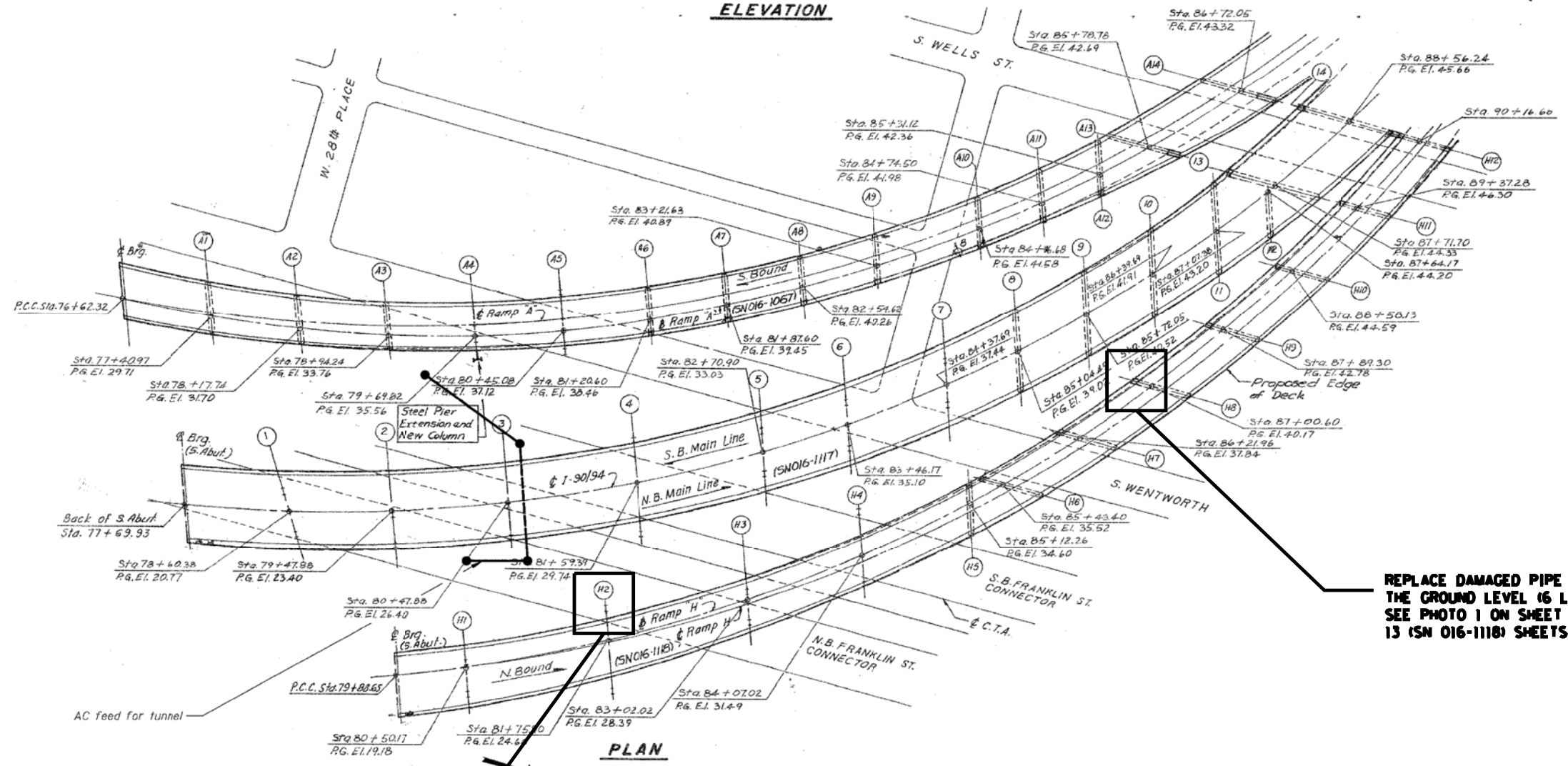
LOCATION 12 (SN 016-1067)  
DETAILS

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	42
			CONTRACT NO. 62B12	
ILLINOIS FED. AID PROJECT				



**ELEVATION**



**PLAN**

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

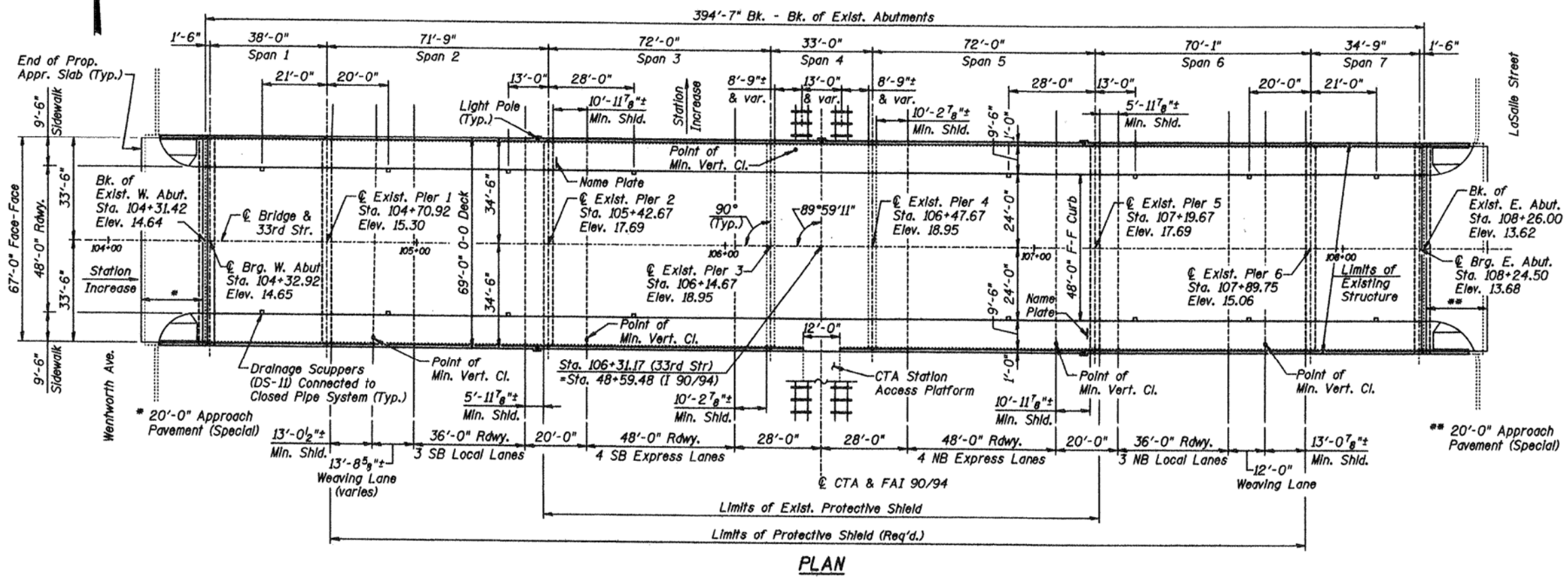
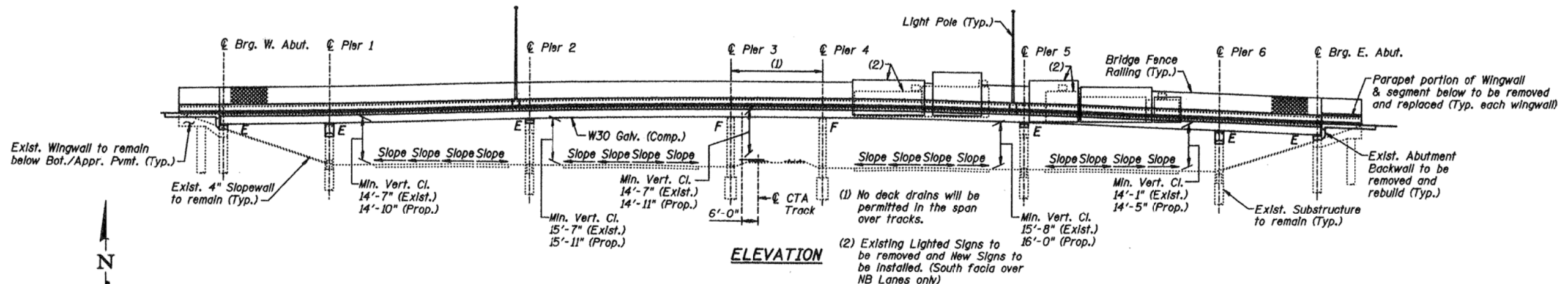
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/15/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOCATION 13 (SN 016-1118)  
DETAILS

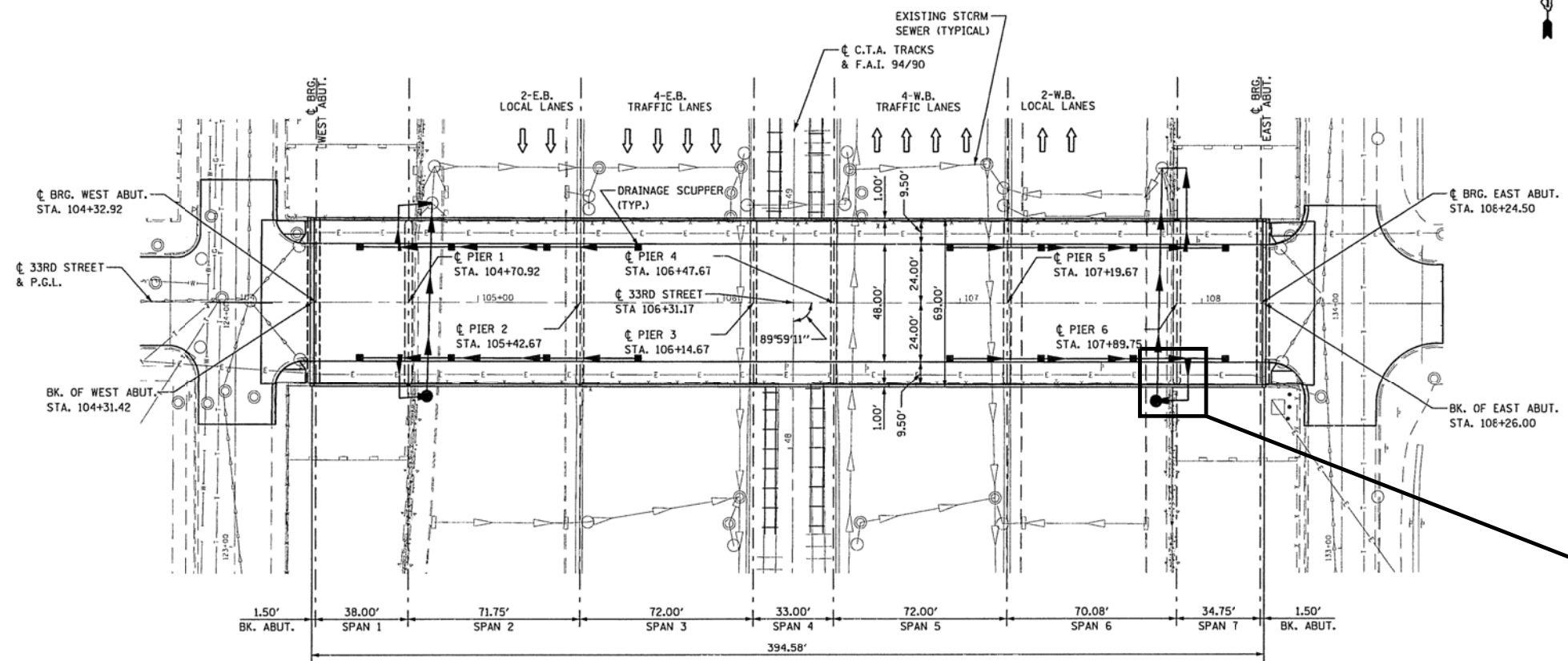
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	44
			CONTRACT NO. 62B12	
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



BRIDGE DRAINAGE SYSTEM PLAN

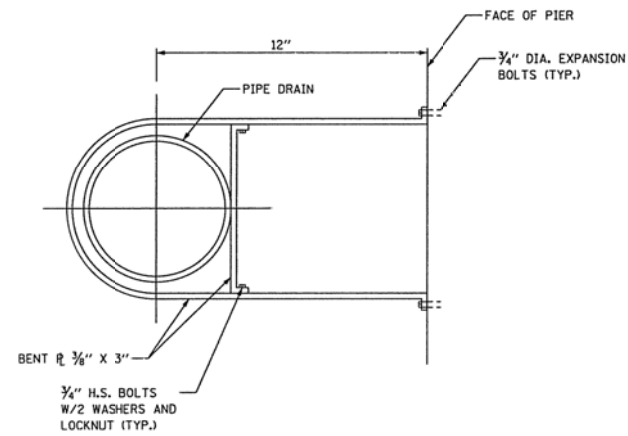
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/15/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

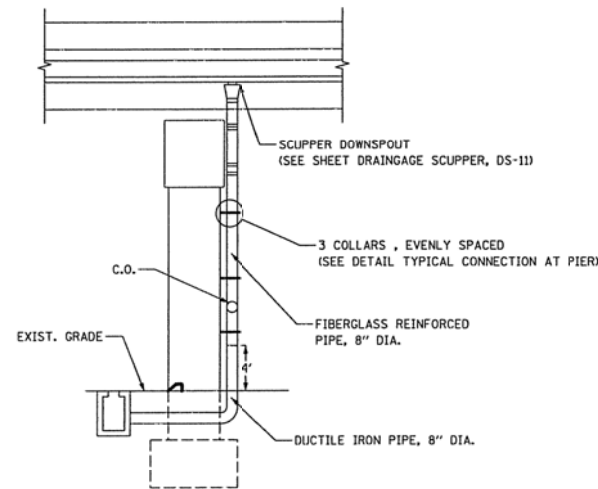
LOCATION 14 (SN 016-1158)  
DRAINAGE PLAN

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

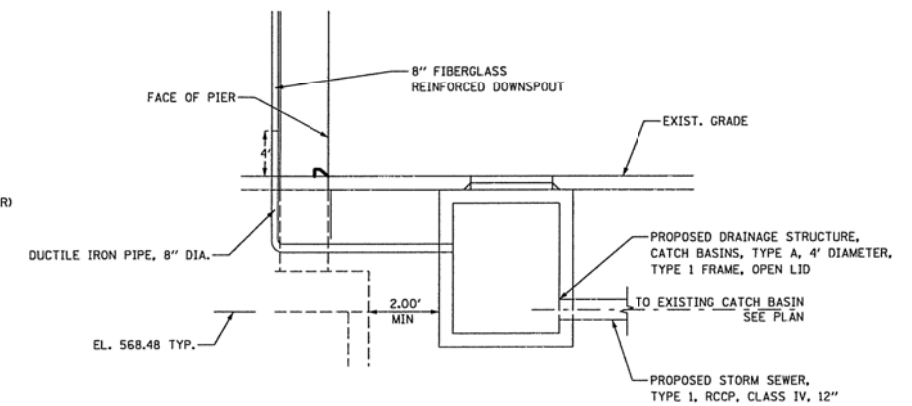
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	46
			CONTRACT NO. 62B12	
ILLINOIS FED. AID PROJECT				



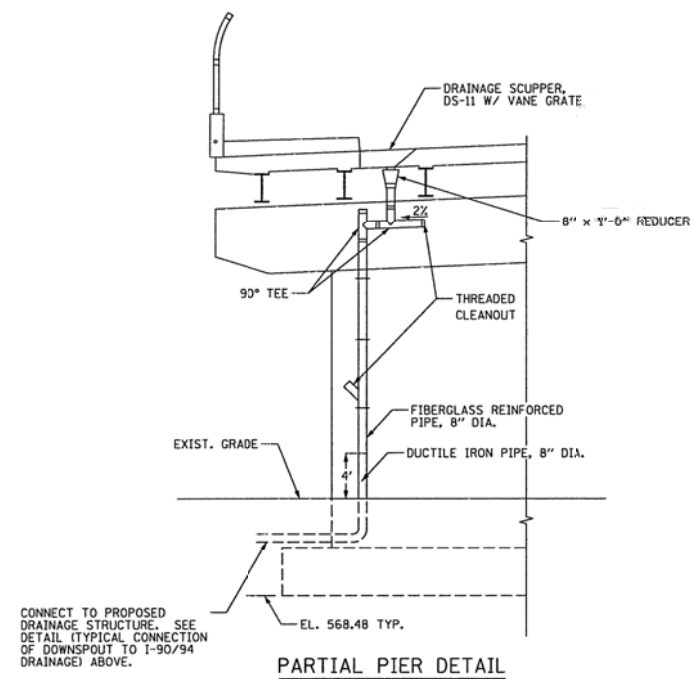
DETAIL (CONNECTION AT PIER)



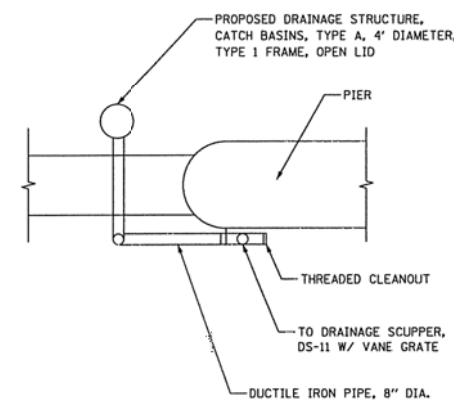
END VIEW



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



PARTIAL PIER DETAIL



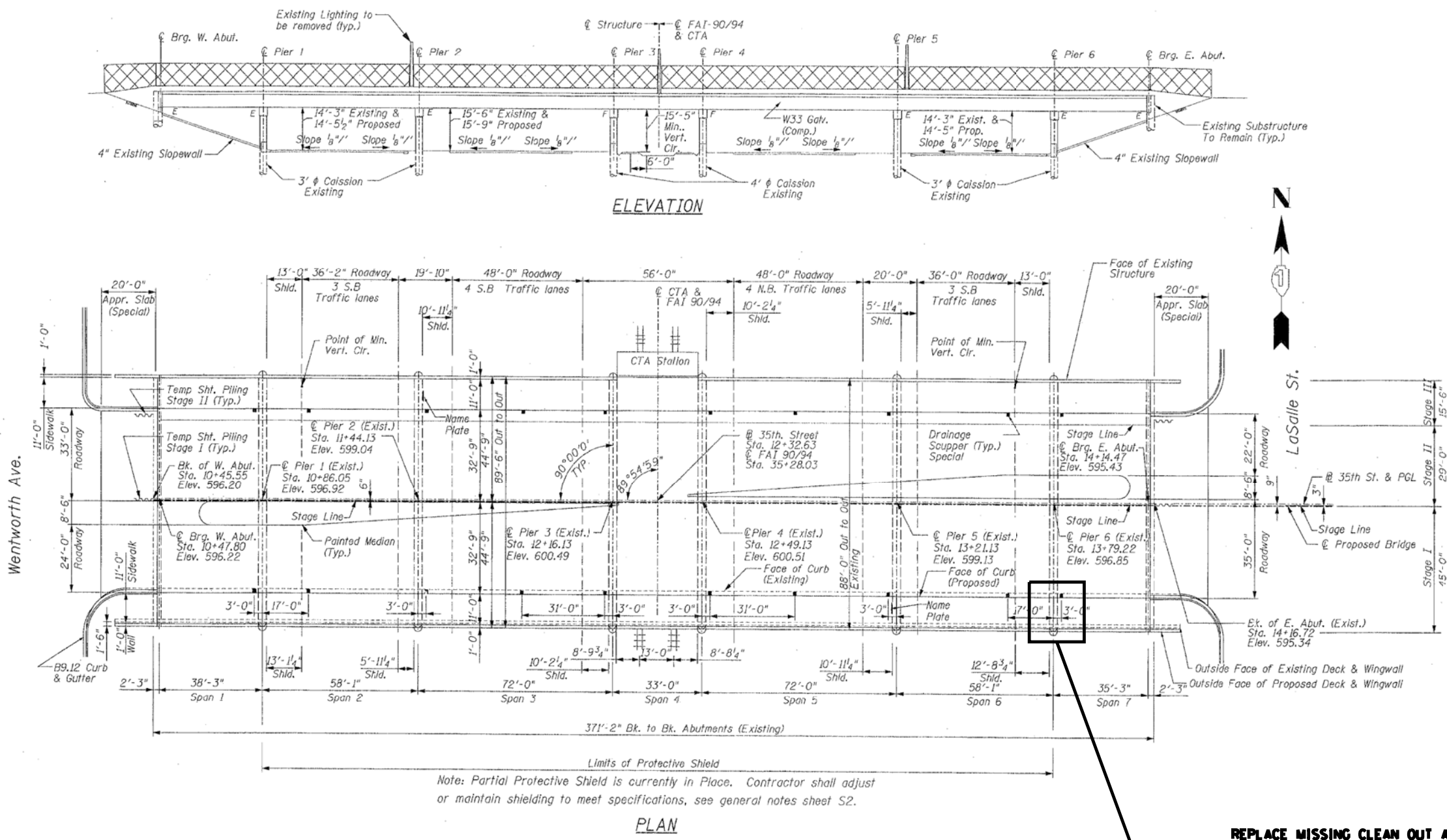
PLAN VIEW

**FOR INFORMATION ONLY**



016-1158 PHOTO #  
PIER 6 \_ SOUTH END

FILE NAME =	USER NAME = dahhr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION 14 (SN 016-1158) DRAINAGE DETAILS</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\138715-1158-LOCATIONS	DRAWN -	CHECKED -	REVISED -					VAR.	2015-046T	COOK	81	47
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.			CONTRACT NO. 62B12				
	PLOT DATE = 7/15/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

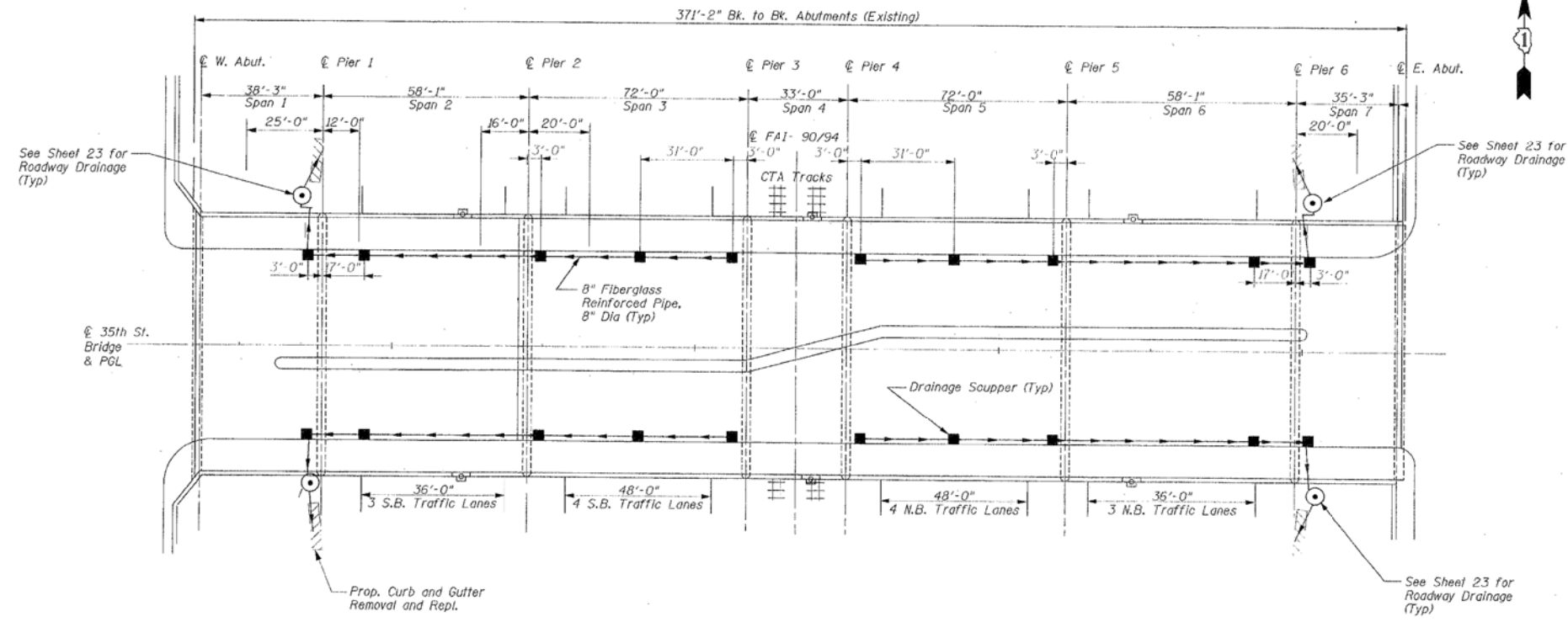


**REPLACE MISSING CLEAN OUT AND CAP ON PIPE'S END (2 LF)  
SEE DRAINAGE DETAILS AND PHOTO 1 ON SHEET 2 OF 2 OF  
LOCATION 15 (SN 016-1160) SHEETS**

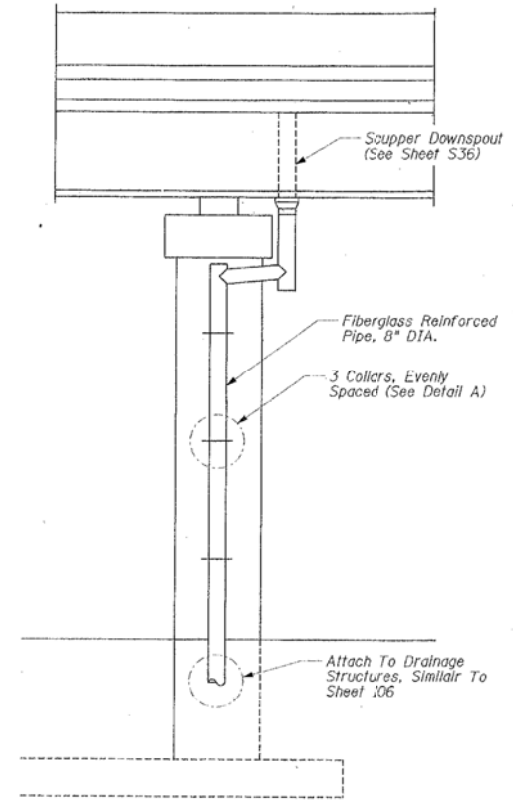
**BILL OF MATERIAL (S.N. 016-1160)  
35TH ST OVER DAN RYAN AND CTA**

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	2



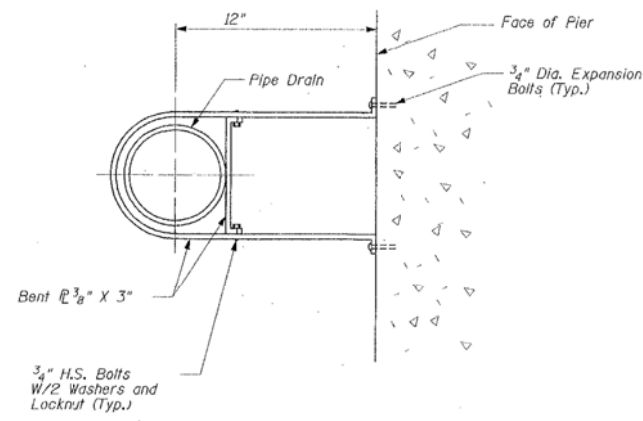


PLAN

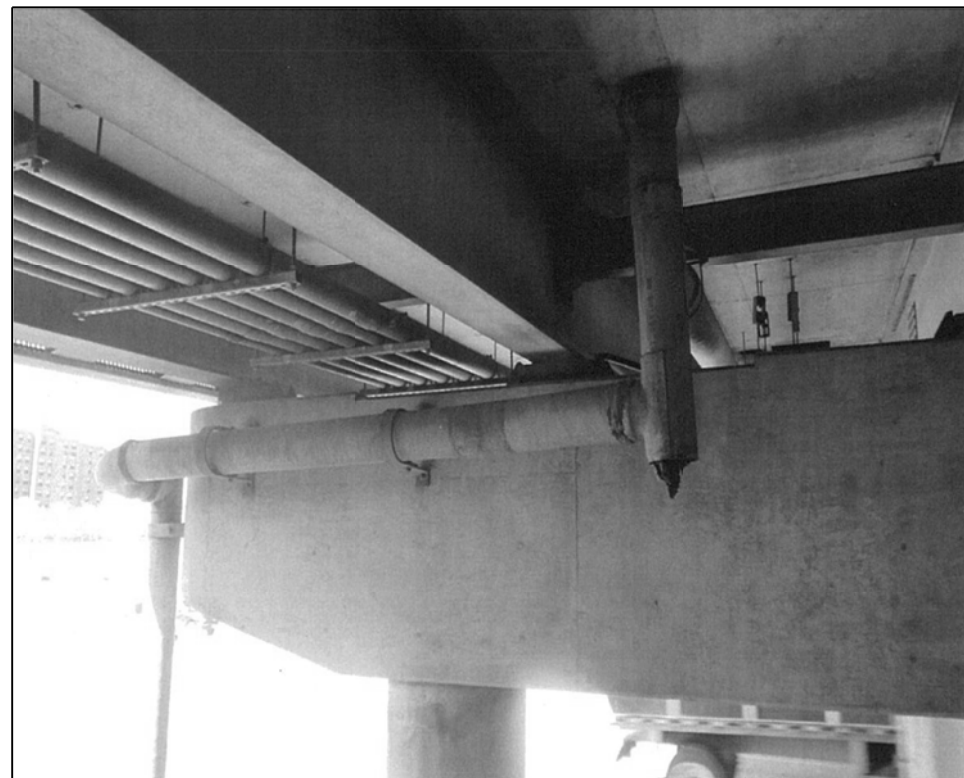


END VIEW  
At Pier

**FOR INFORMATION ONLY**



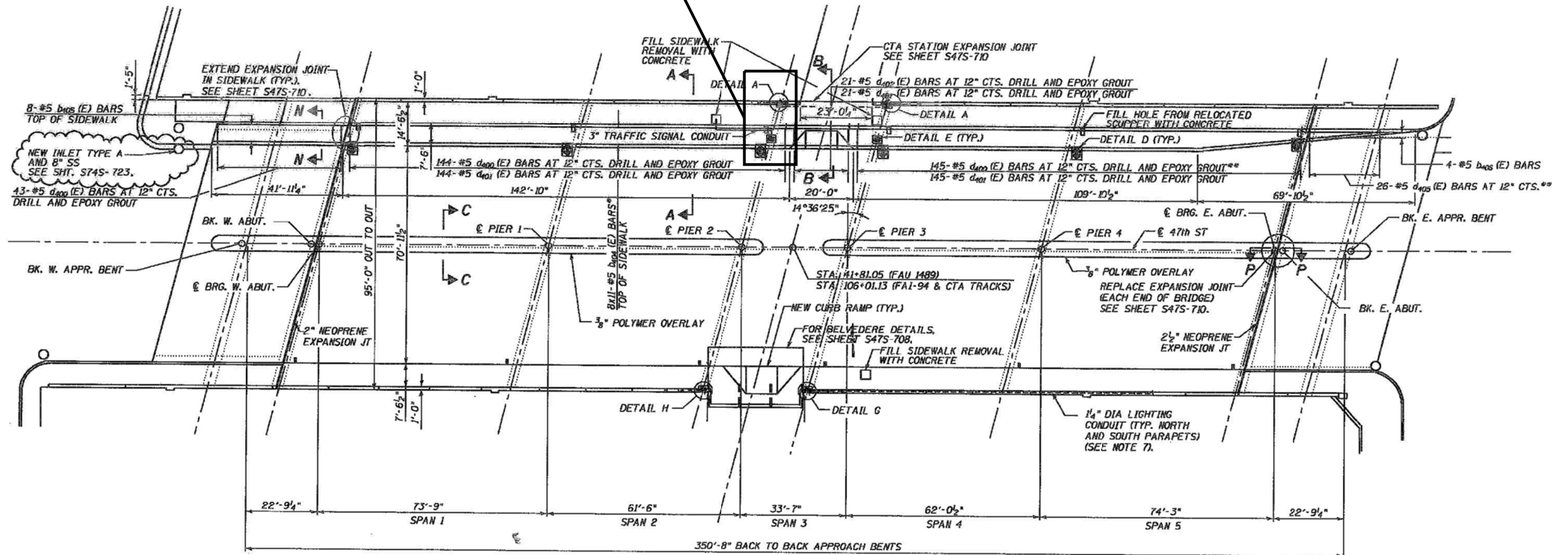
DETAIL A  
Connection at Pier



016-1160 PHOTO #1  
SOUTH END OF PIER 6

FILE NAME =	USER NAME = dahhr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION 15 (SN 016-1160) DRAINAGE DETAILS</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					VAR.	2015-046T	COOK	81	49
	PLOT DATE = 7/15/2015	DATE -	REVISED -		SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.			CONTRACT NO. 62B12				
					ILLINOIS FED. AID PROJECT							

REPLACE DAMAGED/MISSING PIPE (5 LF)  
SEE DRAINAGE DETAILS AND PHOTO 1 ON  
SHEET 2 OF 2 OF LOCATION 16 (SN 016-1156) SHEETS



PLAN

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

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	5

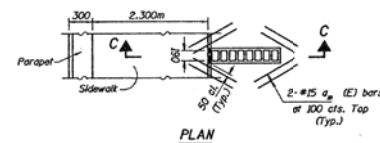
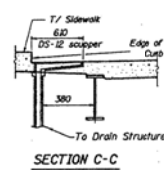
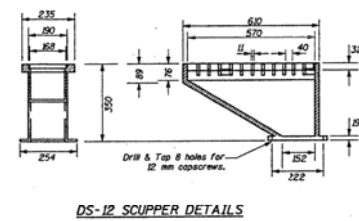
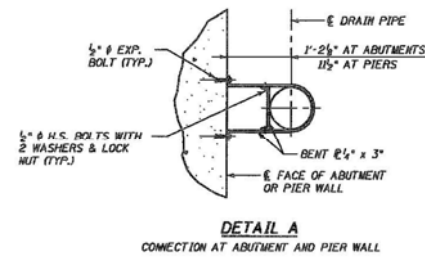
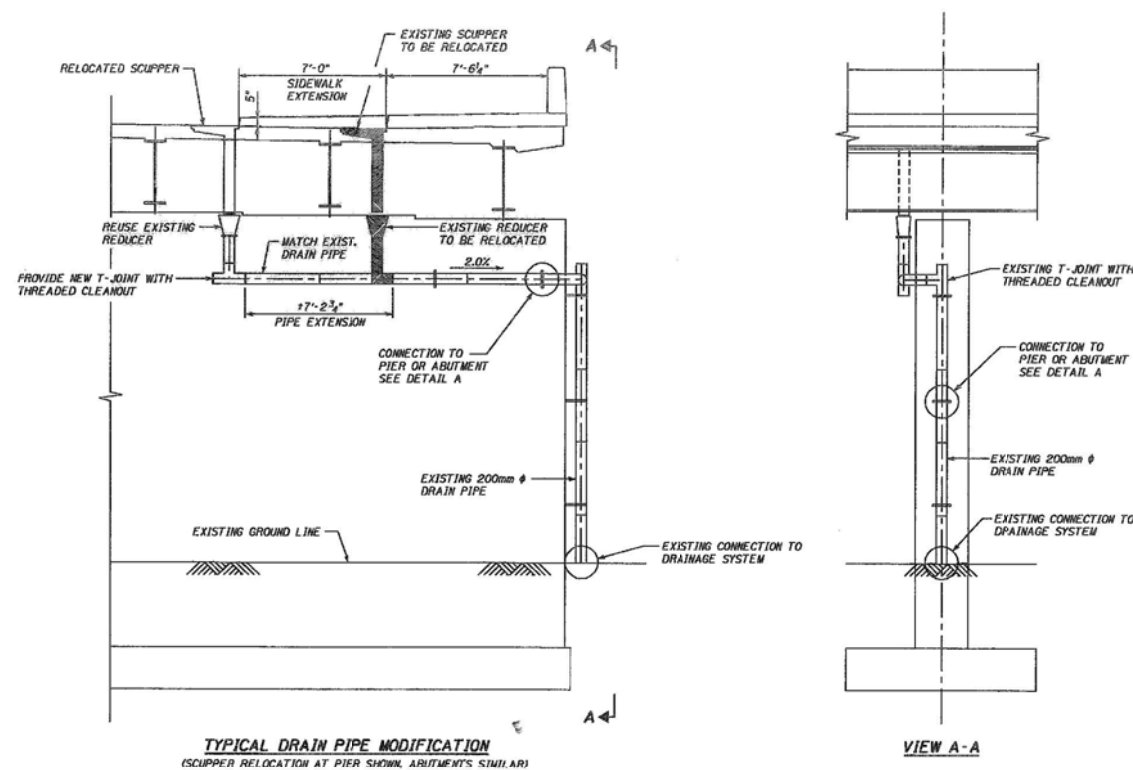
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	PLOT DATE = 7/15/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOCATION 16 (SN 016-1156)  
GENERAL PLAN

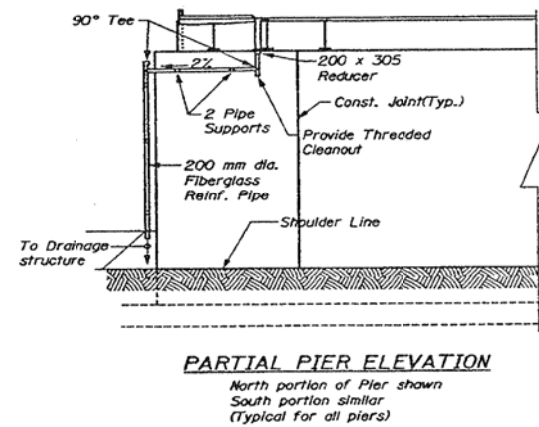
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	50
CONTRACT NO. 62B12				
ILLINOIS FED. AID PROJECT				



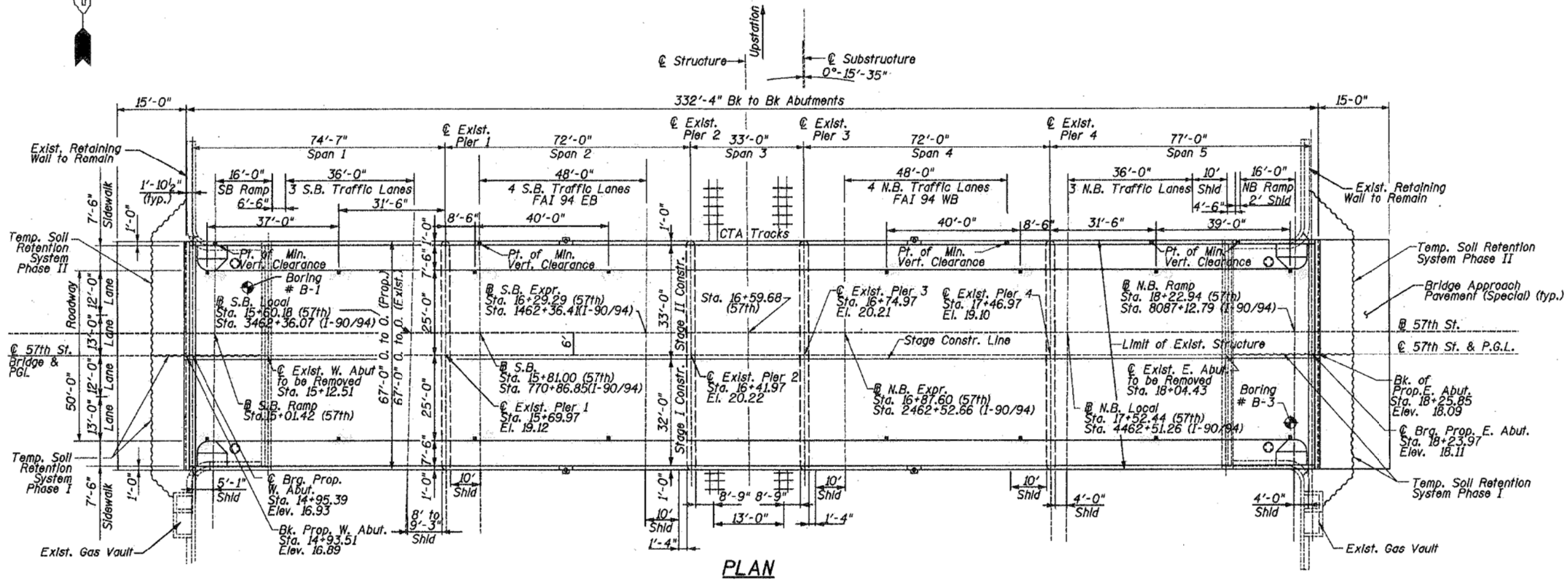
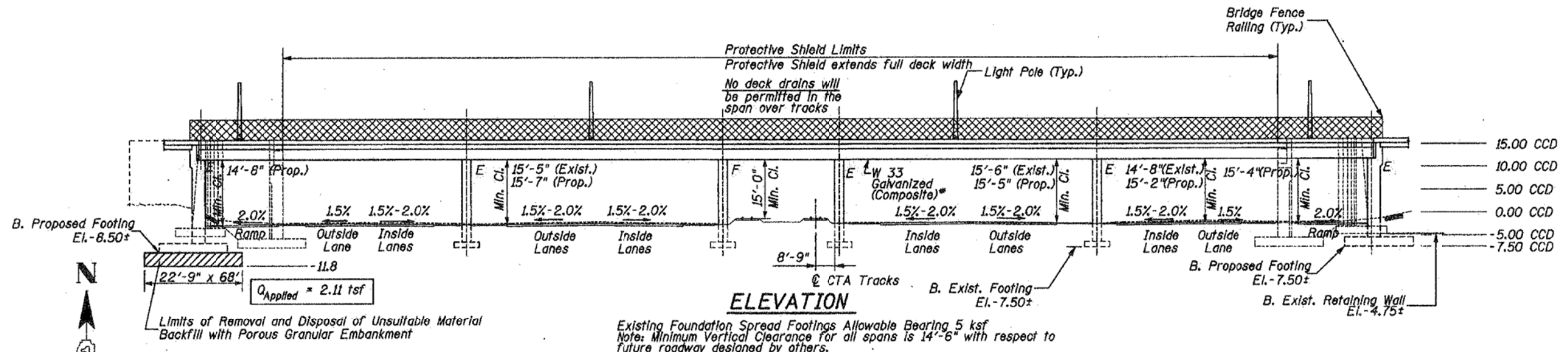
Cut longitudinal reinforcement to clear drainage scuppers.

**Notes:**  
All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 255, Class 30.  
Bolts, washers and nuts shall be galvanized according to AASHTO M 232.  
Cost of the Main Grate, Cleanout Grate, Frame, Downspout, Bolts, Washers, Nuts including complete instructions 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**

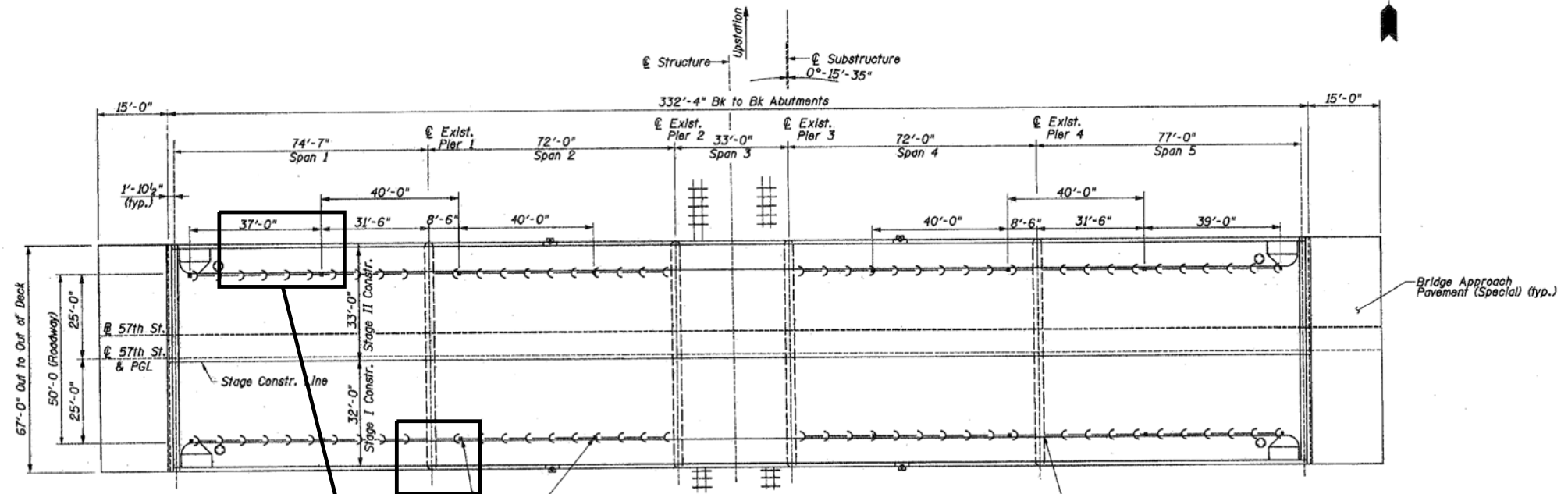
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Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -			CONTRACT NO. 62B12			ILLINOIS FED. AID PROJECT	
	PLOT DATE = 7/15/2015	DATE -	REVISED -	SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.			



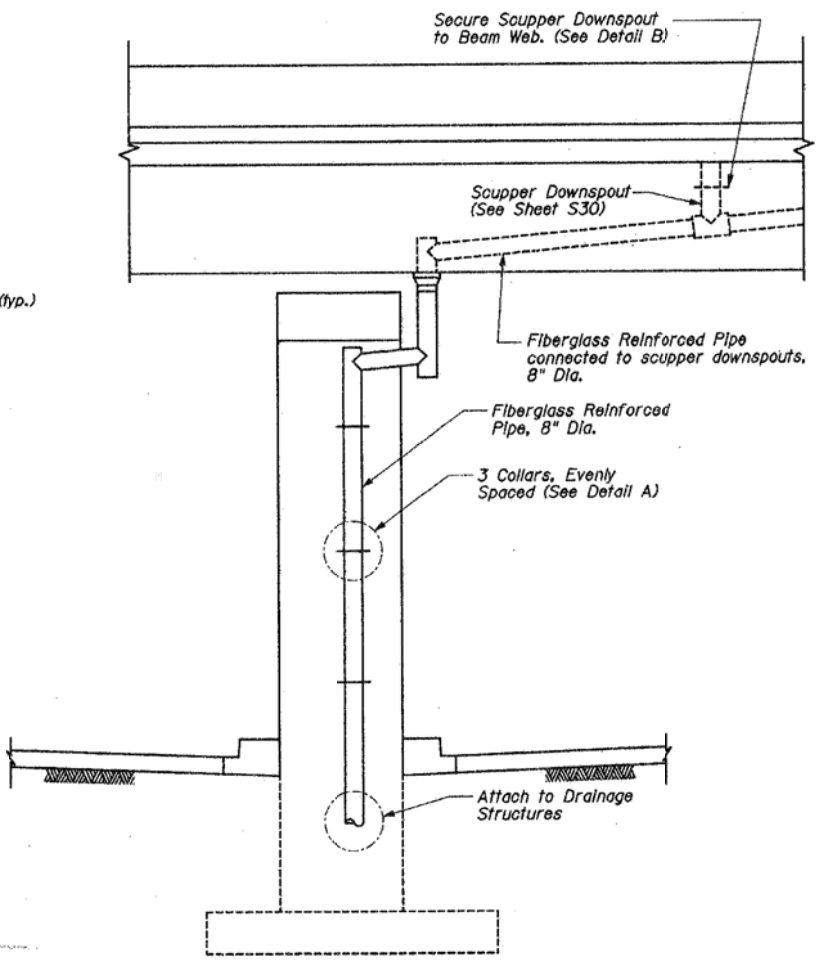
PLAN

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

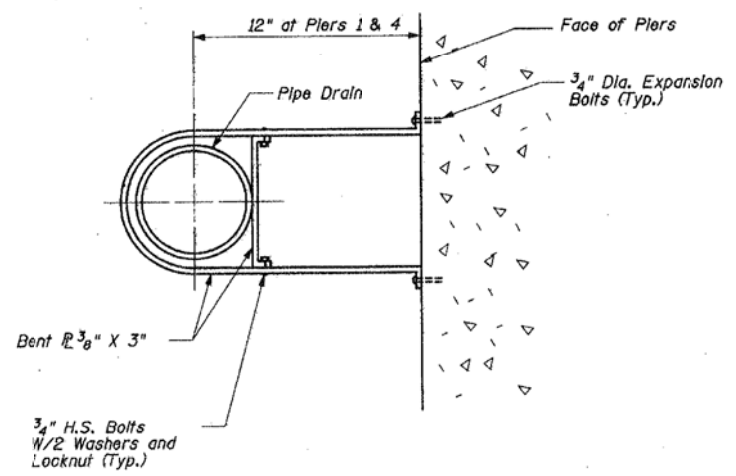
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	45



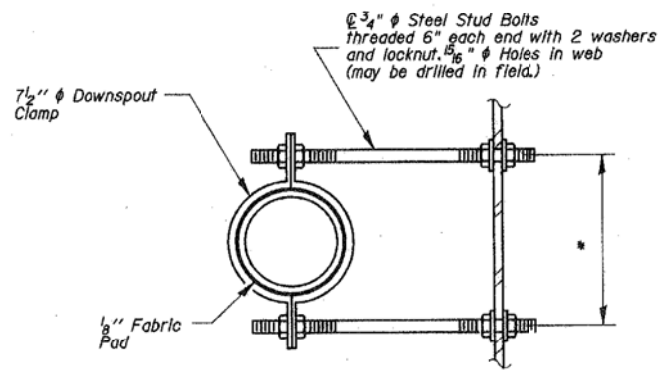
REPLACE DAMAGED/MISSING DRAINAGE PIPE IN SPAN 1 AND AT THE SOUTH END OF PIER 1 (45 LF) SEE PHOTOS 1 AND 2 ON SHEET 3 OF 3 OF LOCATION 17 (SN 016-1151) SHEETS



**END VIEW**  
At Piers 1 and 4



**DETAIL A**  
Connection at Pier



**DETAIL B**

\* Dimension as required by Downspout Clamp.

**NOTES:**

1. Connection to existing drainage structure at:  
Pier 1 (apox. 25' to north; apox. 100' to south)  
Pier 4 (apox. 35' to north; apox. 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.

FILE NAME =	USER NAME = dahhr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION 17 (SN 016-1151) DRAINAGE DETAILS</b>			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		CHECKED -	REVISED -		SCALE:	SHEET 2	OF 3 SHEETS	STA.	TO STA.	COOK	81	53
		DATE -	REVISED -					CONTRACT NO. 62B12				
					ILLINOIS FED. AID PROJECT							



016-1151 PHOTO #1  
SPAN 1



016-1151 PHOTO #2  
PIER 1 \_ SOUTH END

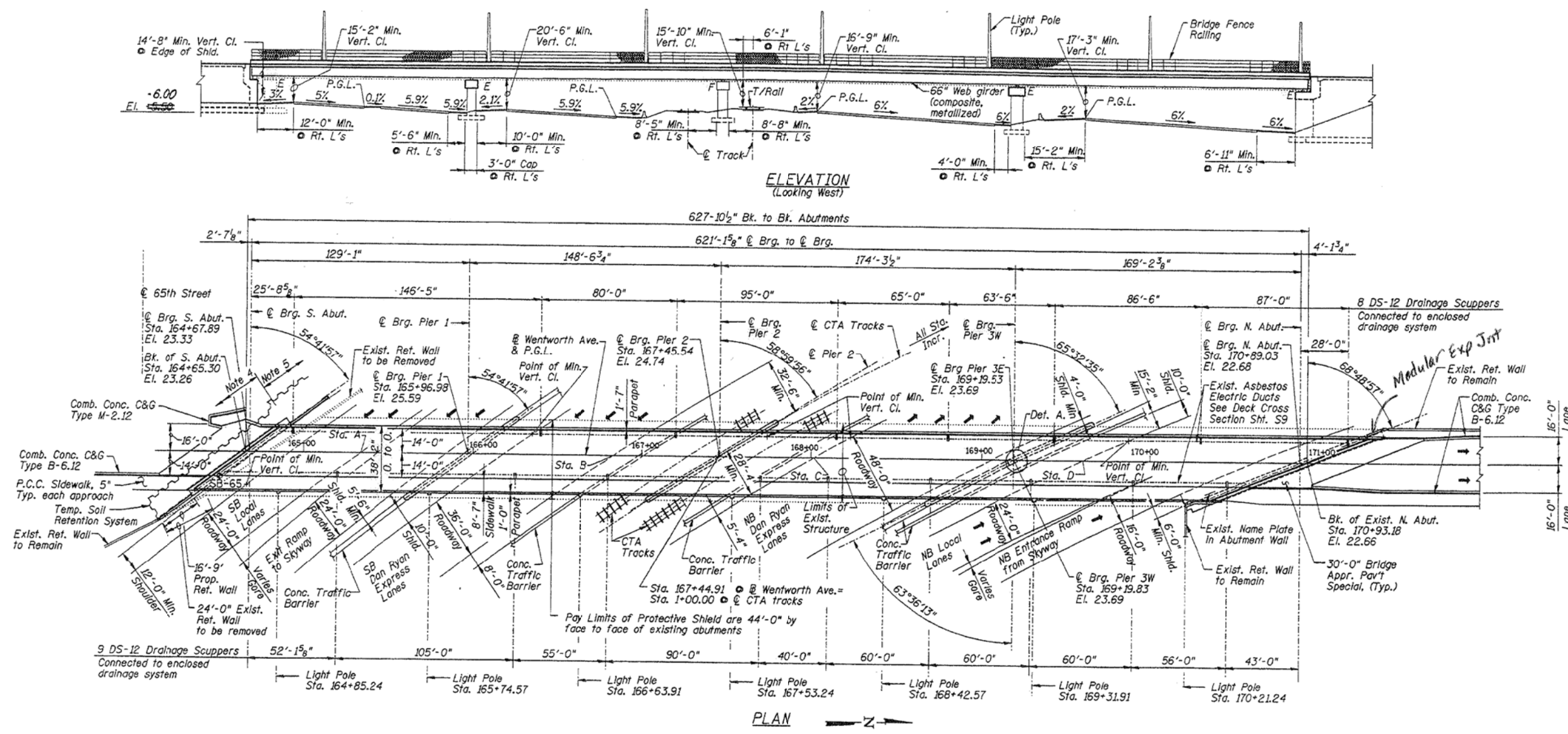
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Default	PLOT SCALE = 100.0009' / in.	DATE -	REVISED -
	PLOT DATE = 7/15/2015		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOCATION 17 (SN 016-1151)  
DETAILS

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	54
			CONTRACT NO. 62B12	
ILLINOIS FED. AID PROJECT				



**BILL OF MATERIAL (S. N. 016-1007)  
WENTWORTH OVER DAN RYAN**

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	500

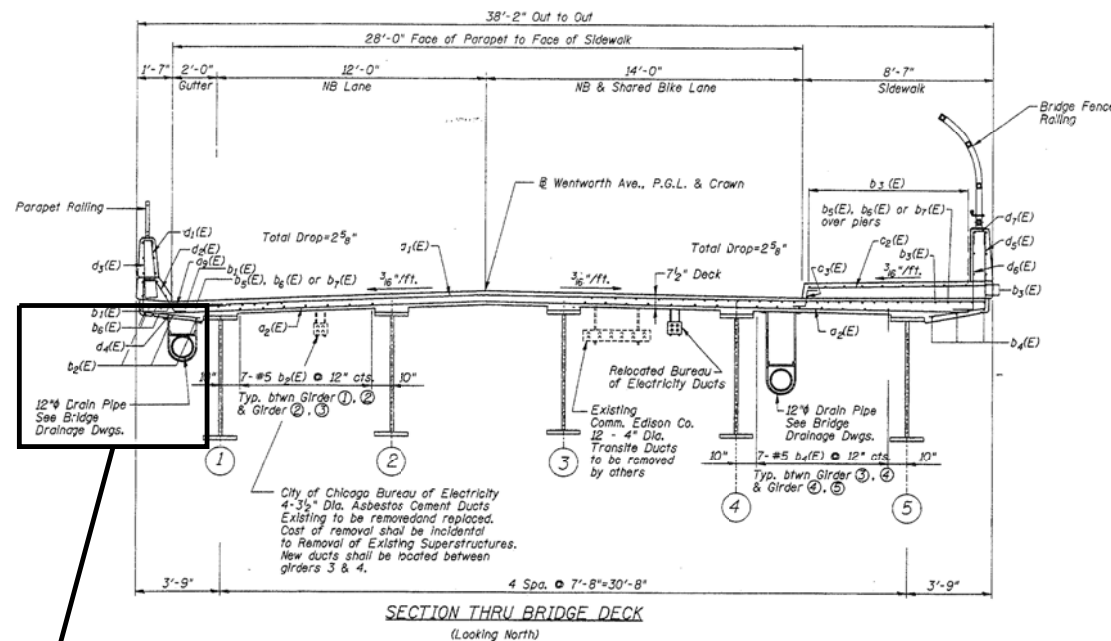
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Default	PLOT DATE = 7/15/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

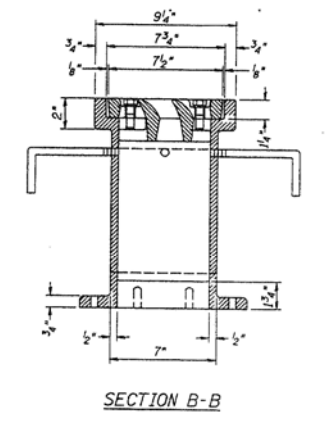
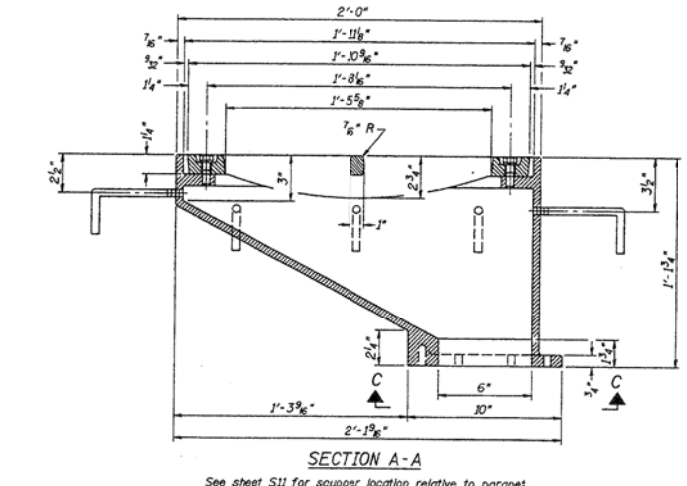
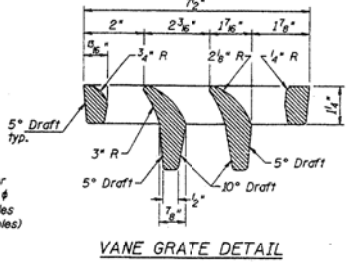
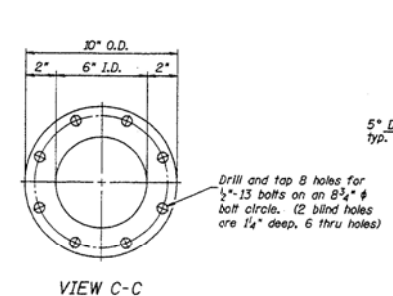
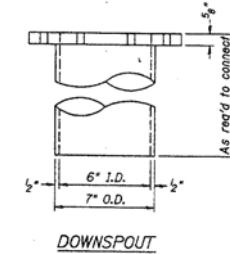
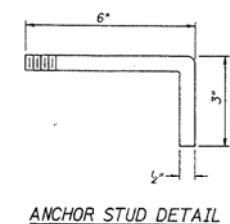
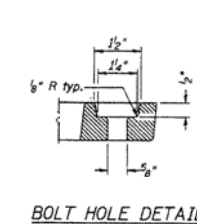
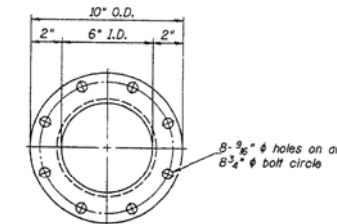
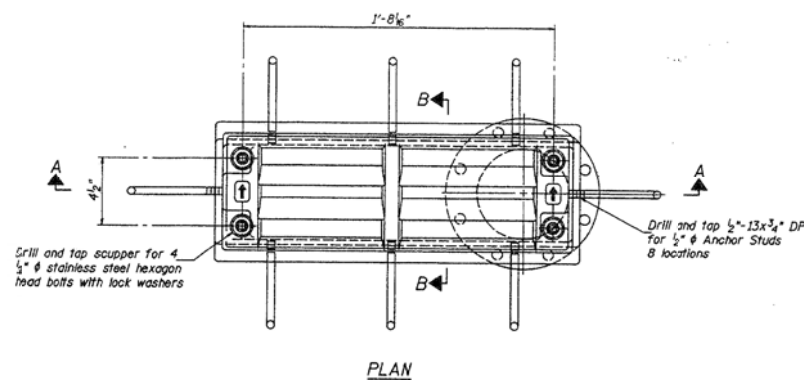
**LOCATION 18 (SN 016-1007)  
GENERAL PLAN AND ELEVATION**

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

F.A. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	55
CONTRACT NO. 62B12				
ILLINOIS FED. AID PROJECT				



**REPLACE HORIZONTAL RUN FOR DRAINAGE PIPE ALONG WEST BEAM  
SEE PHOTOS 1, 2 AND 4 ON SHEET 5 OF 5 OF LOCATION 18 (SN 016-1007) SHEETS**



**EXISTING DRAINAGE SCUPPER DS-12**

FILE NAME =	USER NAME = dahhnr	DESIGNED -	REVISED -
p:\1\1084EBIDINTEG.illinois.gov\PIWID\Documents\DOT Offices\District 1\Projects\DI38715-shd-LOCATIONS	DRAWN	CHECKED -	REVISED -
Default	PLOT DATE = 7/15/2015	DATE -	REVISED -

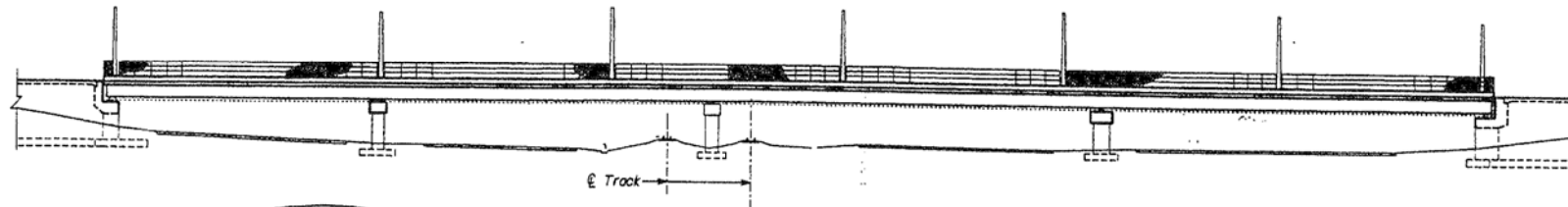
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LOCATION 18 (SN 016-1007)  
CROSS SECTION AND SCUPPER DS-12 DETAILS**

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	56
CONTRACT NO. 62B12				
ILLINOIS FED. AID PROJECT				

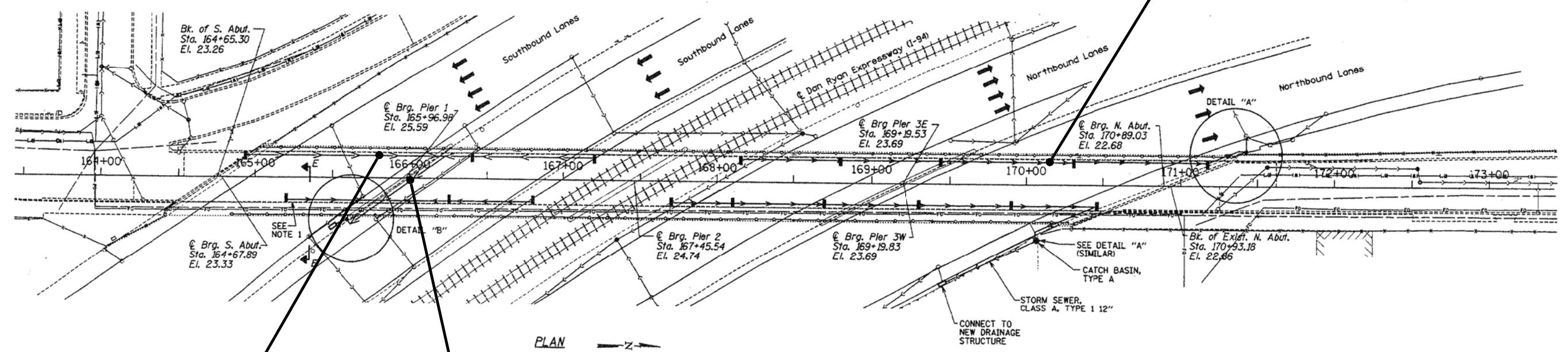
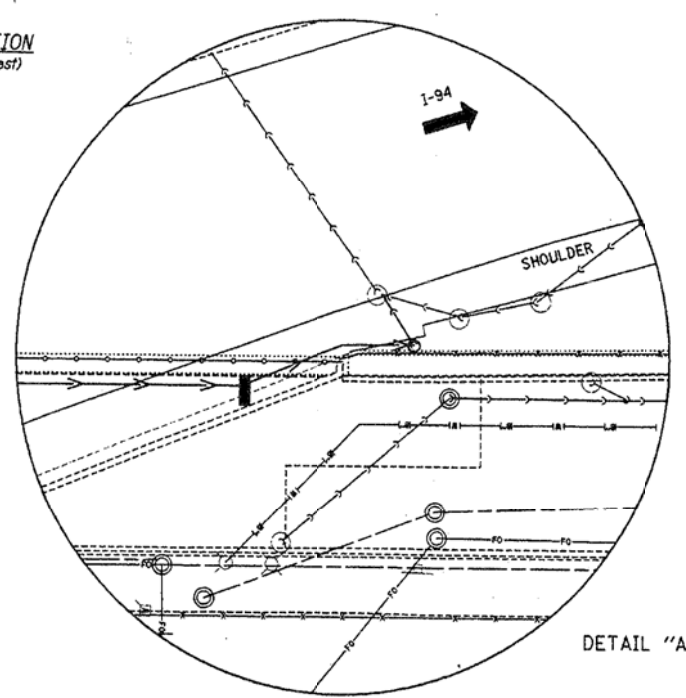
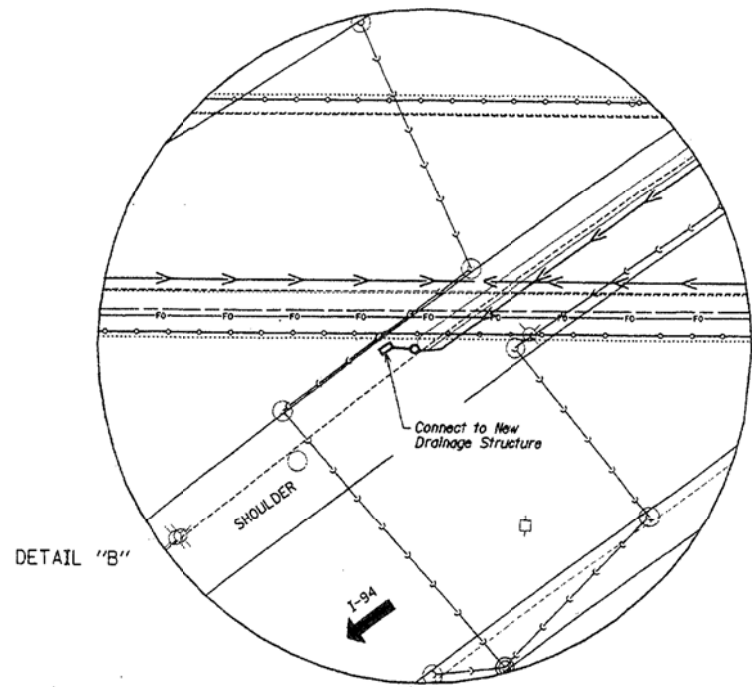




**BRIDGE DECK DRAINAGE LEGEND**

- 05-12 DRAINAGE SCUPPER WITH VANE GRATE (SEE NOTE 4)
- 12" DIAMETER HORIZONTAL FIBERGLASS REINFORCED PIPE (ARROWS POINT IN DIRECTION OF FLOW)

- NOTES:**
1. PROVIDE BEND BELOW SCUPPERS (NORTHBOUND SIDE) TO ROUTE DRAINAGE PIPING CLOSER TO GIRDER #4 TO ALLOW PIPING TO PASS THROUGH CROSS FRAME X-BRACING WITHOUT INTERFERENCE.
  2. WORK THIS SHEET WITH THE FOLLOWING SHEET.
  3. PROVIDE CLEAN-OUT AT UPSTREAM END OF ALL HORIZONTAL 12" DIAMETER FIBERGLASS REINFORCED DRAINAGE PIPING.

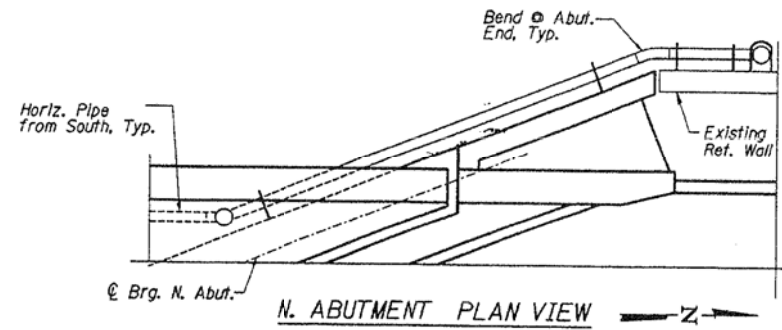


REPLACE HORIZONTAL RUN FOR DRAINAGE PIPE ALONG WEST BEAM. MINIMUM SLOPE (0.5%)

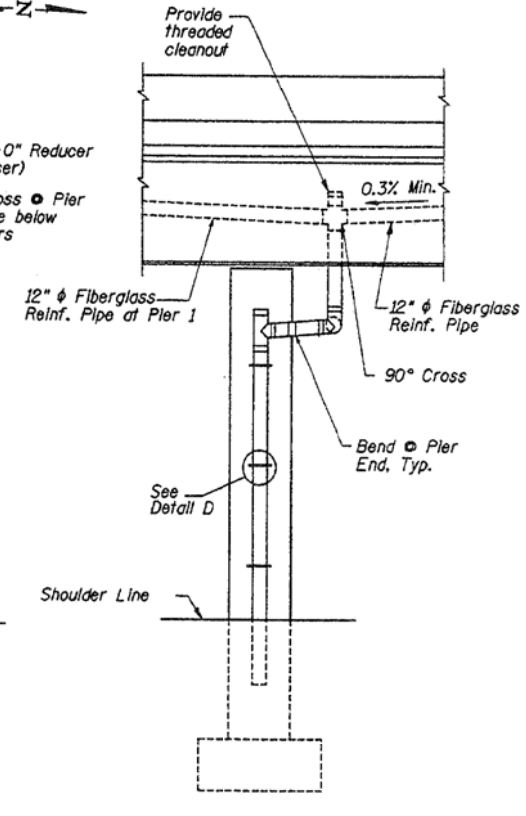
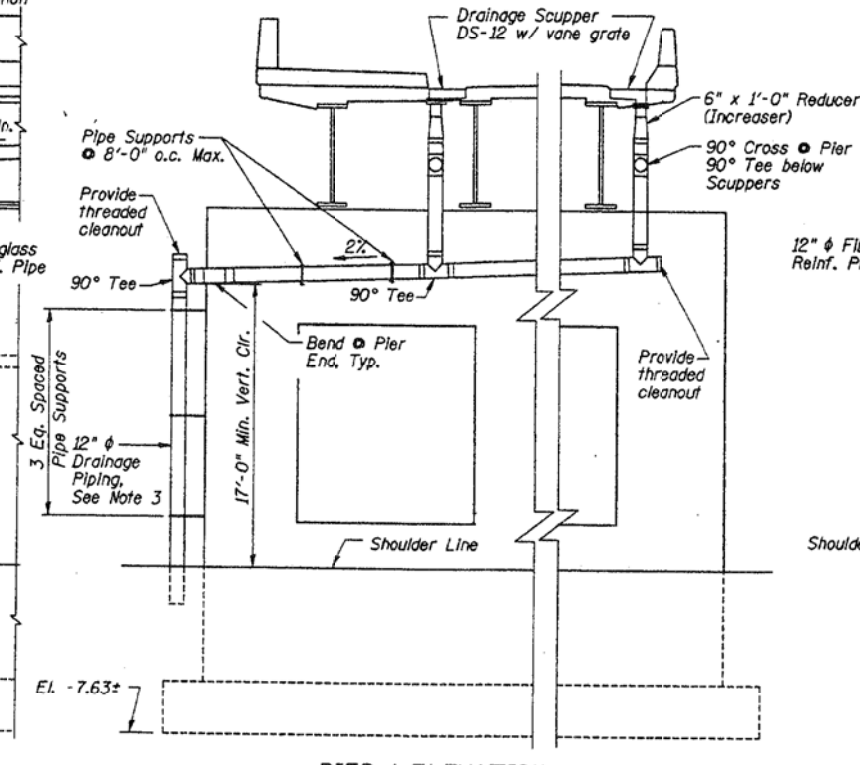
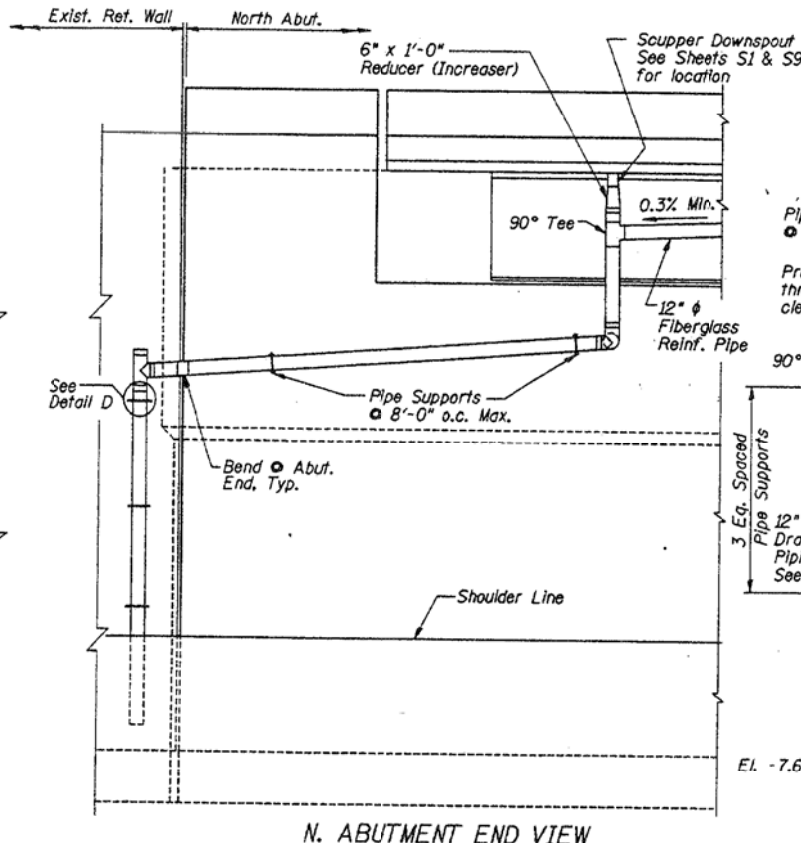
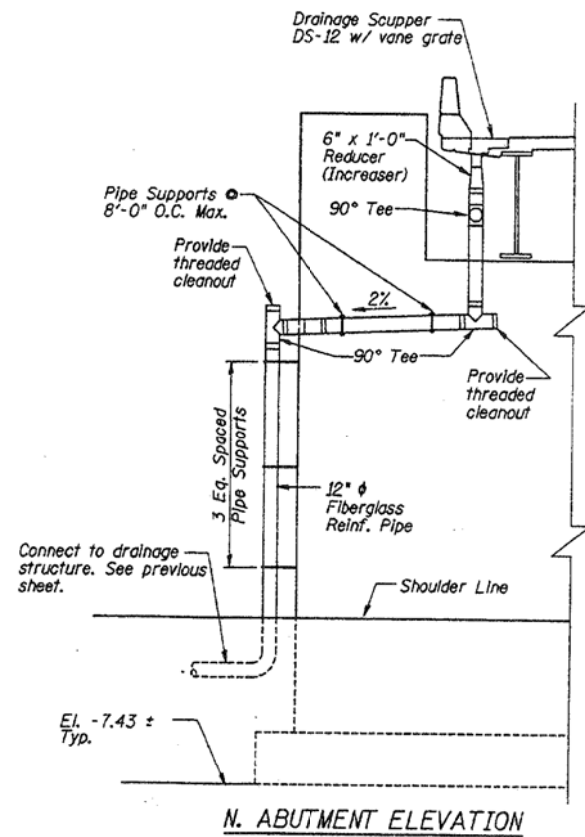
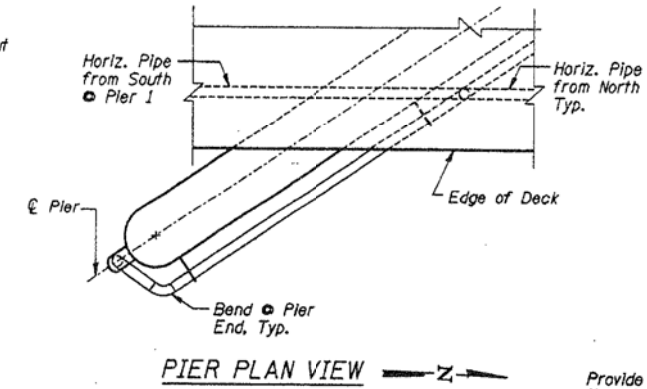
REPLACE MISSING SECTION FOR DRAINAGE PIPE ALONG NORTH FACE OF PIER 1

REPLACE HORIZONTAL RUN FOR DRAINAGE PIPE ALONG WEST BEAM. MINIMUM SLOPE (0.5%)

FILE NAME =	USER NAME = dahhr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION 18 (SN 016-1007) DRAINAGE DETAILS</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI38715-sht-LOCATIONS	DRAWN	CHECKED -	REVISED -		SCALE:	SHEET 3	OF 5 SHEETS	STA.	TO STA.	COOK	81	57
Default	PLOT DATE = 7/15/2015	DATE -	REVISED -		CONTRACT NO. 62B12							
ILLINOIS FED. AID PROJECT												

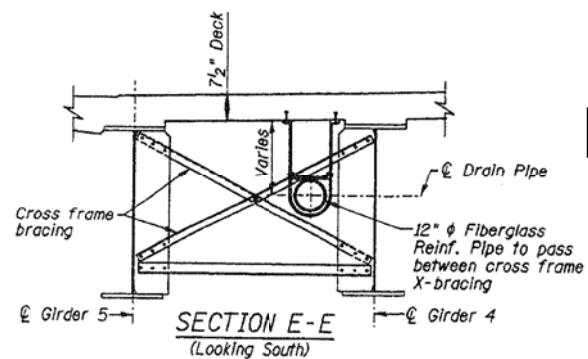
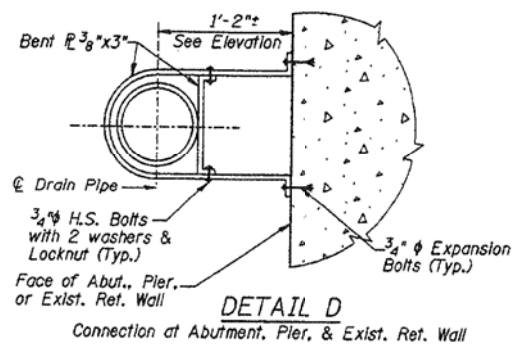
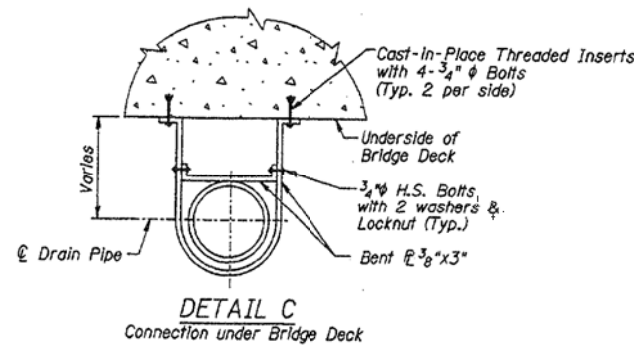


- Notes:
1. Fiberglass reinforced pipe, ductile iron pipe, cleanouts, supports & fittings from the downspout to the drainage structure is included in the pay item - Drainage System.
  2. All horizontal drainage piping attached to bridge at deck shall be 12"  $\phi$  Fiberglass Reinf. Pipe braced as shown in Detail C at 8'-0" o.c. Max. and at all pipe couplings U.N.O. Min. slope of the pipe shall be 0.3%.
  3. The bottom 10' of the exposed vertical drainage pipe shall be ductile iron pipe. Ductile iron pipe shall conform to ASTM A377 and ductile iron fittings (castings) shall conform to ASTM A536. The cost of the ductile iron pipe and supports shall be included in the lump sum price for Drainage System.



**PIPING DETAILS (North Abut. West End)**  
**PIPING DETAILS OPP. HAND, SIM. (North Abut. East End)**

**PIER 1 ELEVATION**  
**PIER 1 EAST END VIEW**

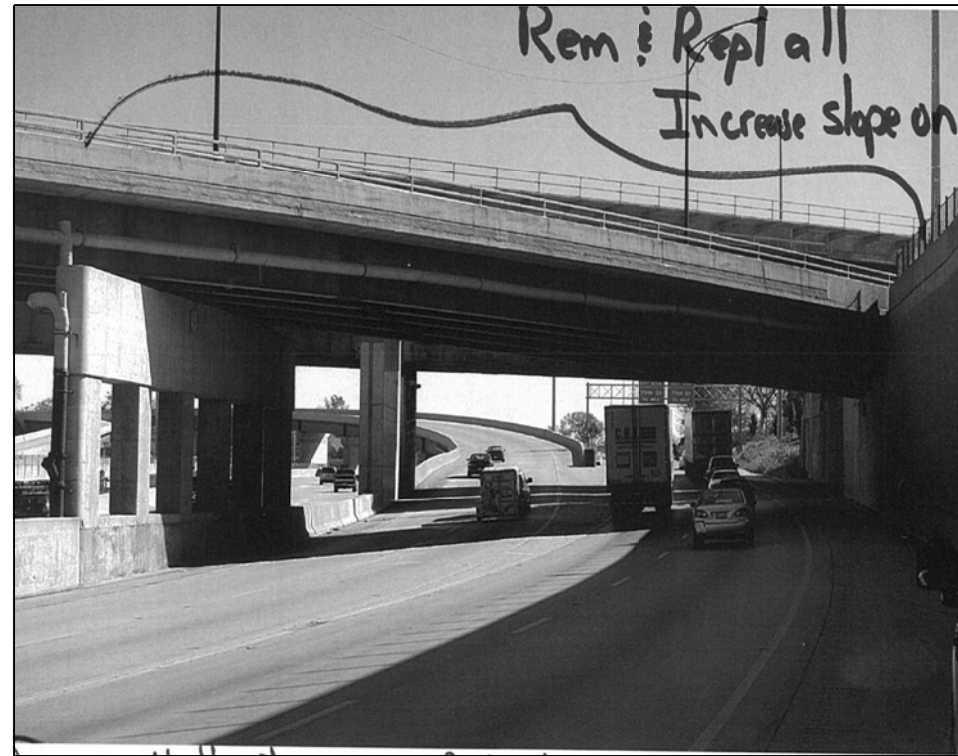


**FOR INFORMATION ONLY**

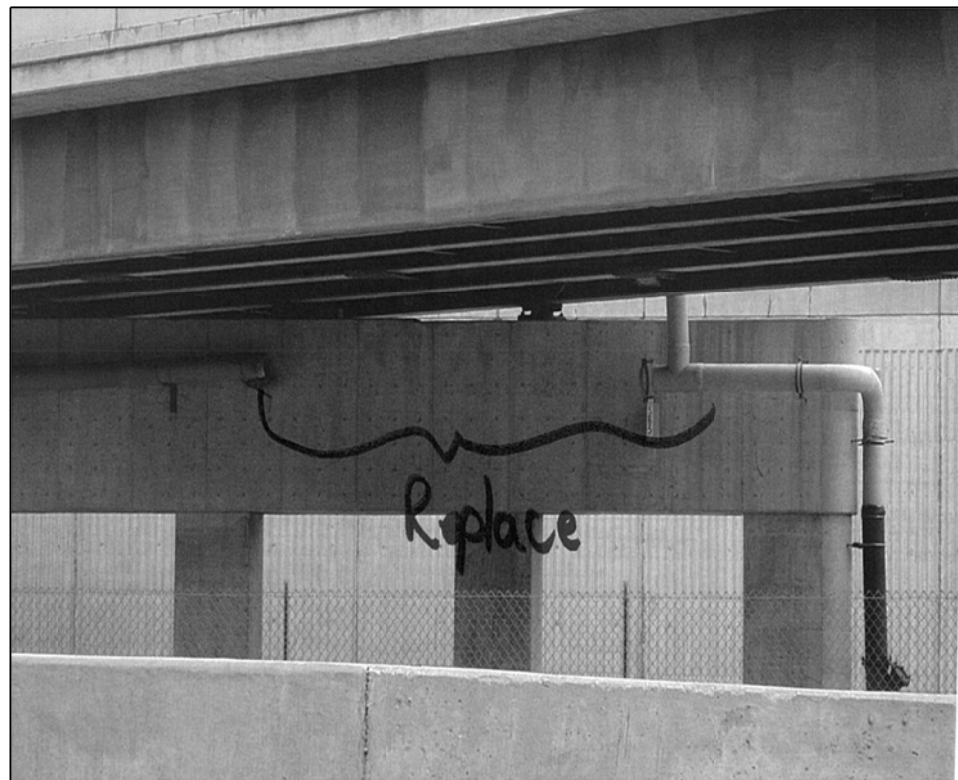
FILE NAME =	USER NAME = dahhr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION 18 (SN 016-1007) DRAINAGE DETAILS</b>			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\1\084EBIDINTEG.illinois.gov\PIWIDOTDocuments\DOT Offices\District 1\Projects\DI38715\Design\DI38715-sh-LOCATIONS	DRWING	CHECKED -	REVISED -		VAR.	2015-046T	COOK	81	58			
Default	PLOT SCALE = 100.0009' / in.	DATE -	REVISED -		CONTRACT NO. 62B12			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 7/15/2015				SCALE:	SHEET 4	OF 5 SHEETS	STA.	TO STA.			



016-1007 PHOTO #1  
SECTION OVER DAN RYAN SB EXPRESS LANES \_ LOOKING EAST



016-1007 PHOTO #2  
SECTION OVER DAN RYAN SB LOCAL LANES \_ LOOKING EAST

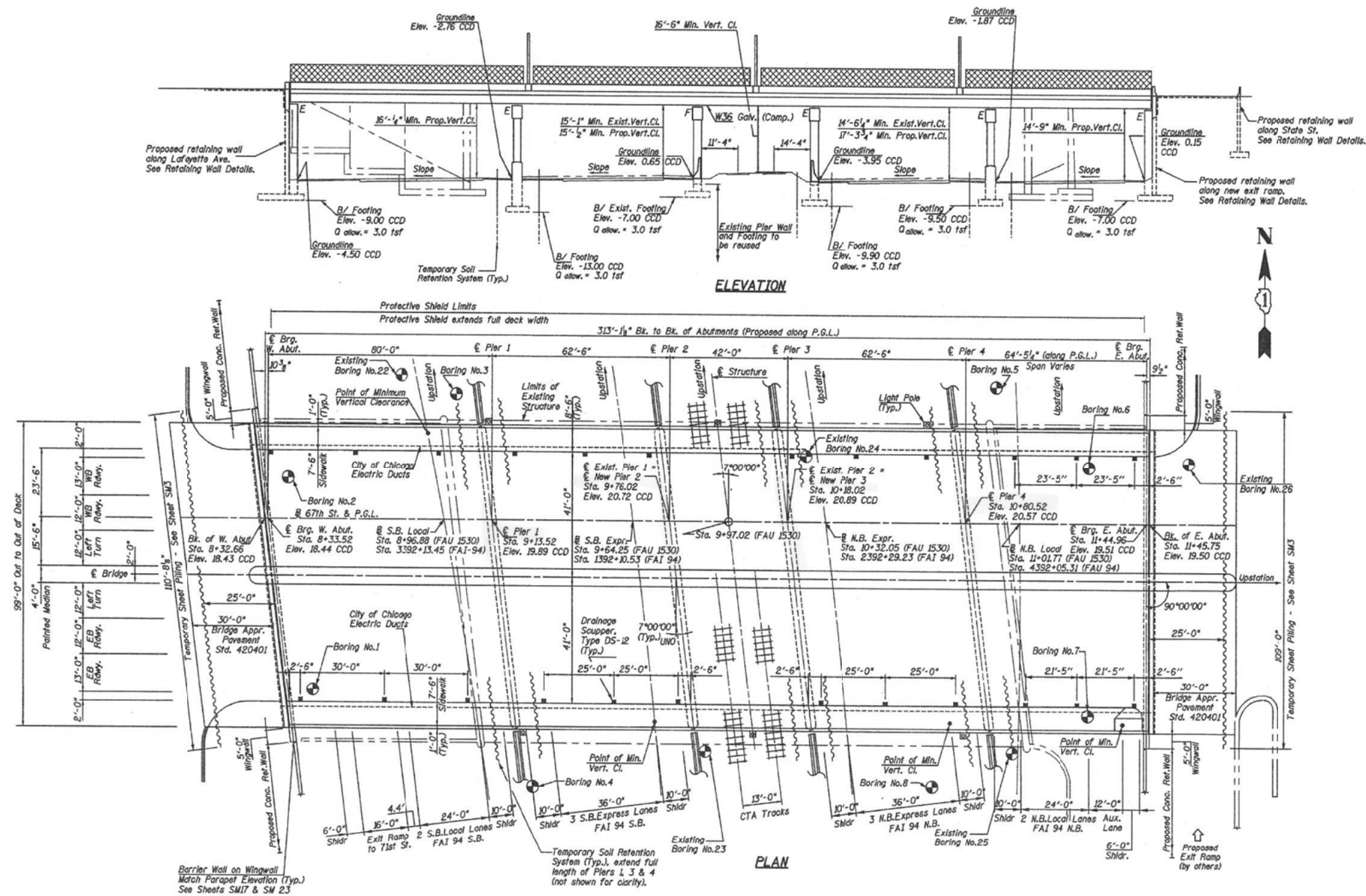


016-1007 PHOTO #3  
PIER 1 \_ NORTH FACE



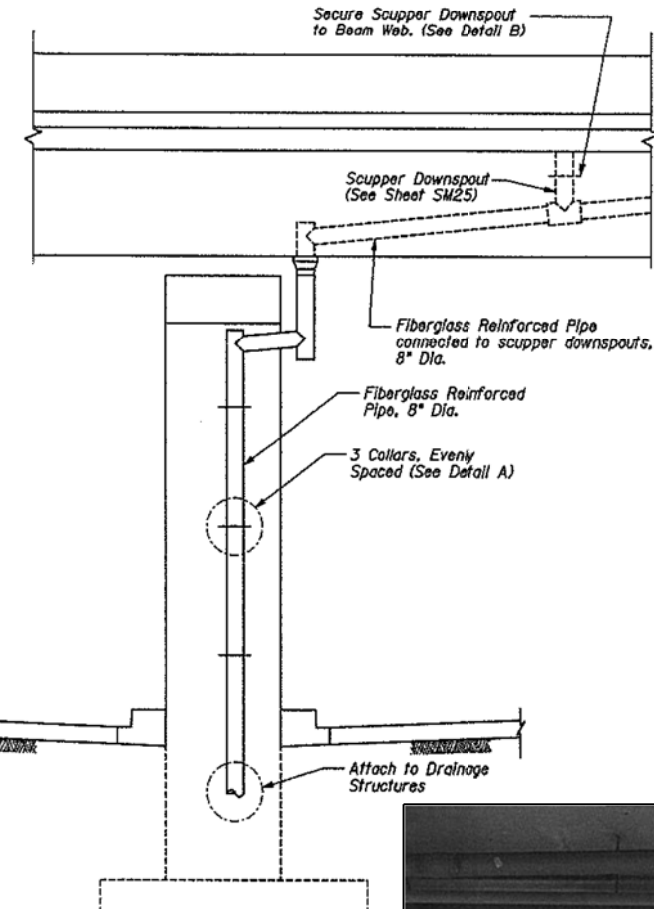
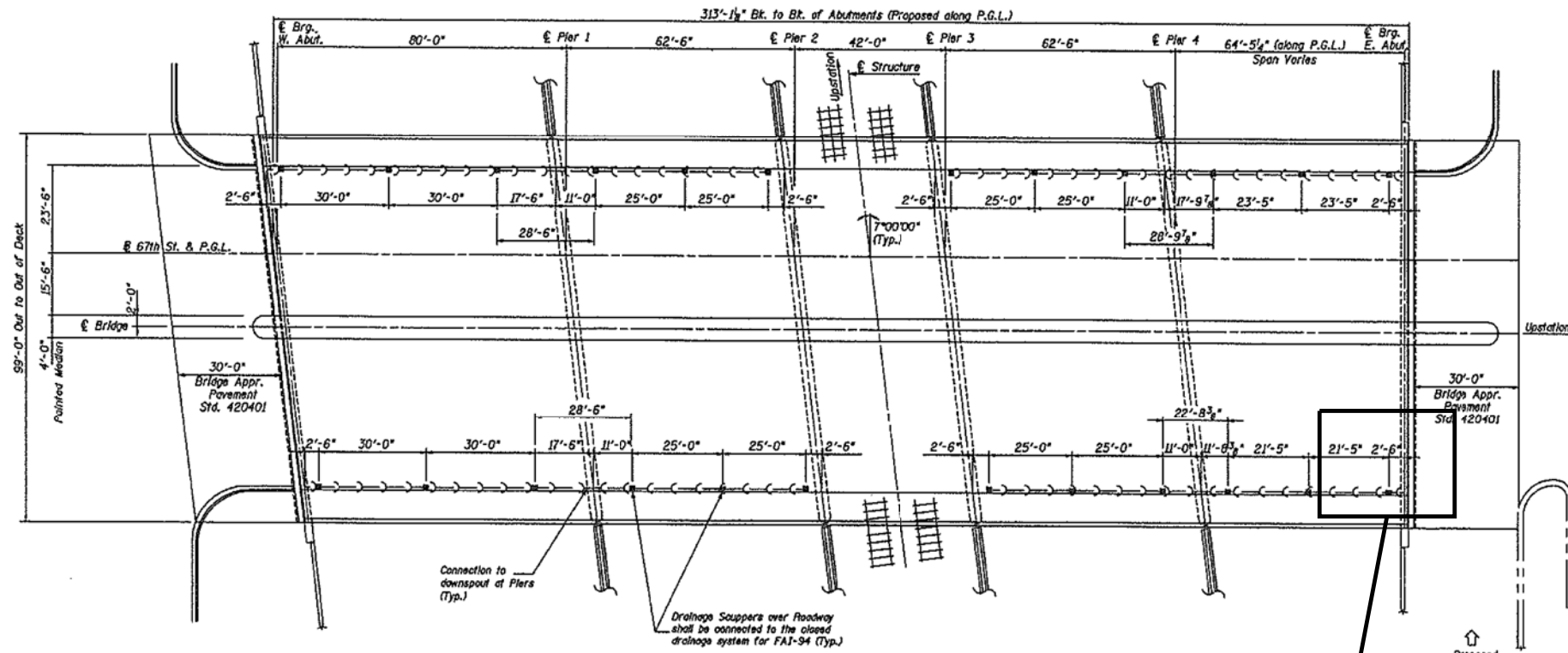
016-1007 PHOTO #4  
SECTION OVER DAN RYAN NB LANES \_ LOOKING EAST

FILE NAME =	USER NAME = dahhr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOCATION 18 (SN 016-1007) DETAILS</b>			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\1387\Drawings\Design\138715-sh-LOCATIONS		DRAWN -	REVISED -		SCALE:	SHEET 5	OF 5	SHEETS	STA.	TO STA.	VAR.	2015-046T	COOK	81	59
Default		PLOT SCALE = 100.0009' / in.	CHECKED -		REVISED -							CONTRACT NO. 62B12			
		PLOT DATE = 7/15/2015	DATE -		REVISED -							ILLINOIS FED. AID PROJECT			



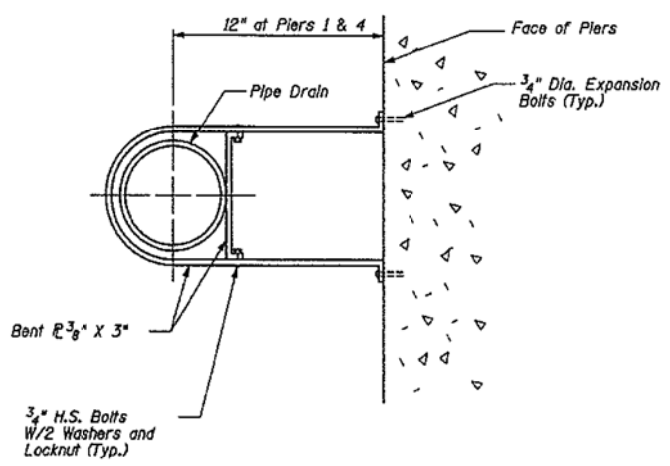
**BILL OF MATERIAL (S. N. 016-1147)  
67TH ST. OVER DAN RYAN**

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	15

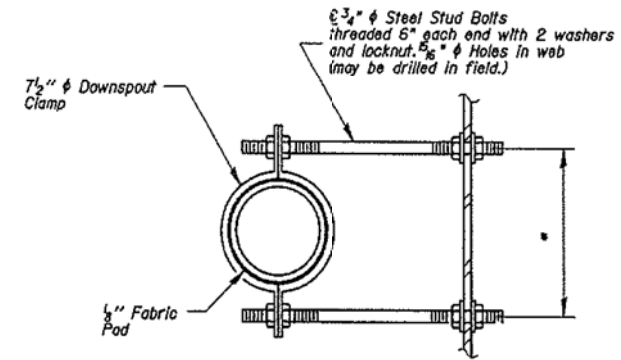


**REPLACE DAMAGED/MISSING DRAINAGE PIPE AT THE SOUTH END OF THE E ABUTMENT (15 LF) SEE PHOTOS 1 THIS SHEET.**

**END VIEW**  
At Piers 1 and 4

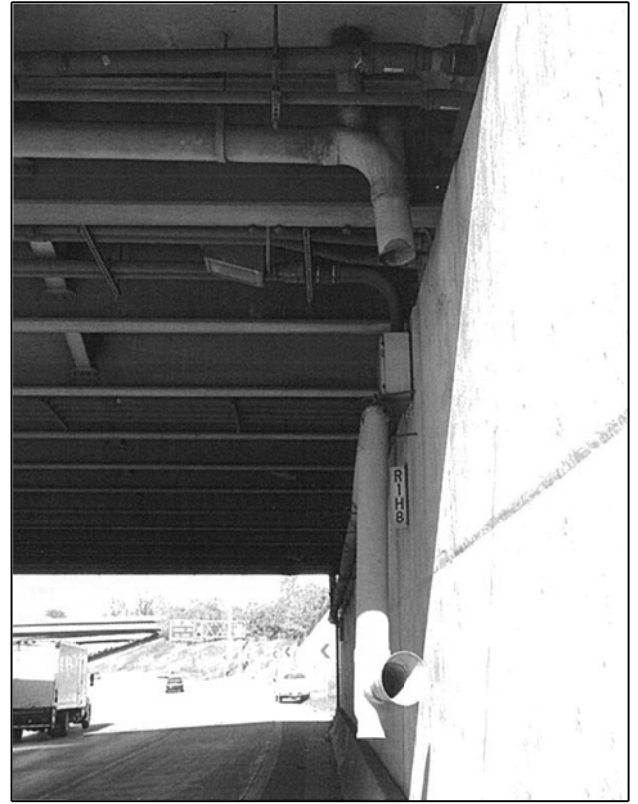


**DETAIL A**  
Connection at Pier



**DETAIL B**

\* Dimension as required by Downspout Clamp.



**016-1147 PHOTO #1**  
**EAST ABUTMENT -**  
**SOUTH END**

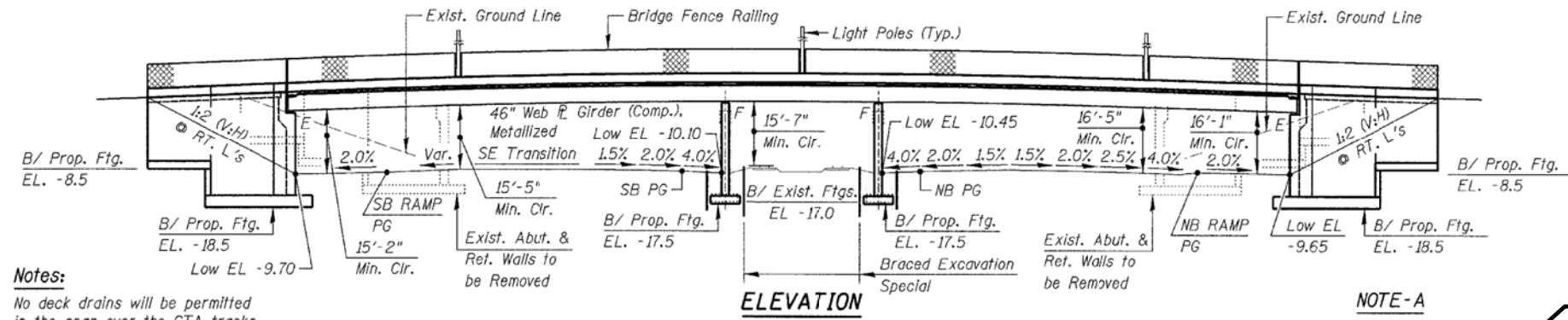
FILE NAME =	USER NAME = dahhr	DESIGNED -	REVISED -
pw\11084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI38715-sh-LOCATIONS		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/15/2015	DATE -	REVISED -

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

**LOCATION 19 (SN 016-1147)**  
**DRAINAGE DETAILS**

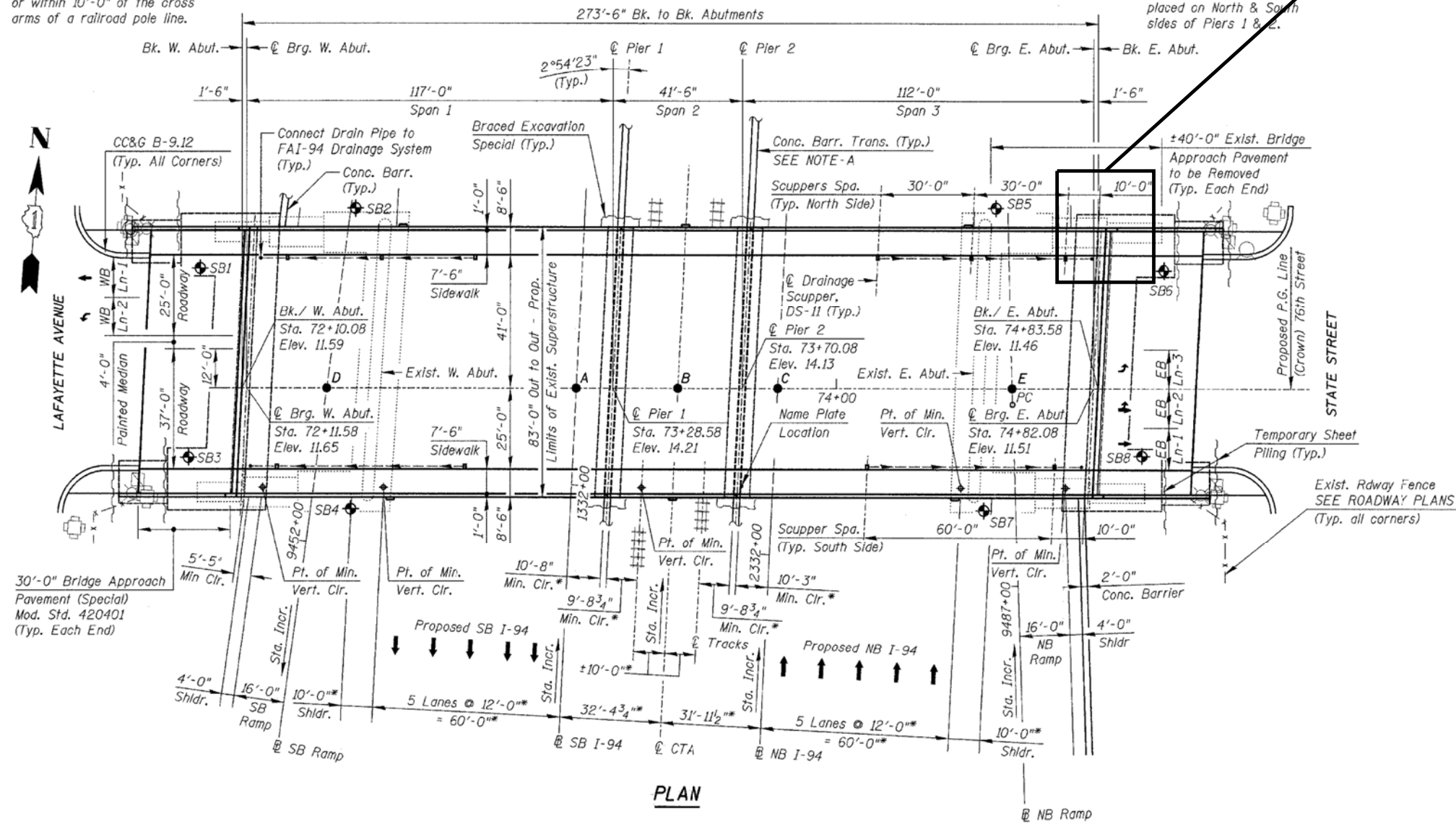
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	61
CONTRACT NO. 62B12				
ILLINOIS FED. AID PROJECT				



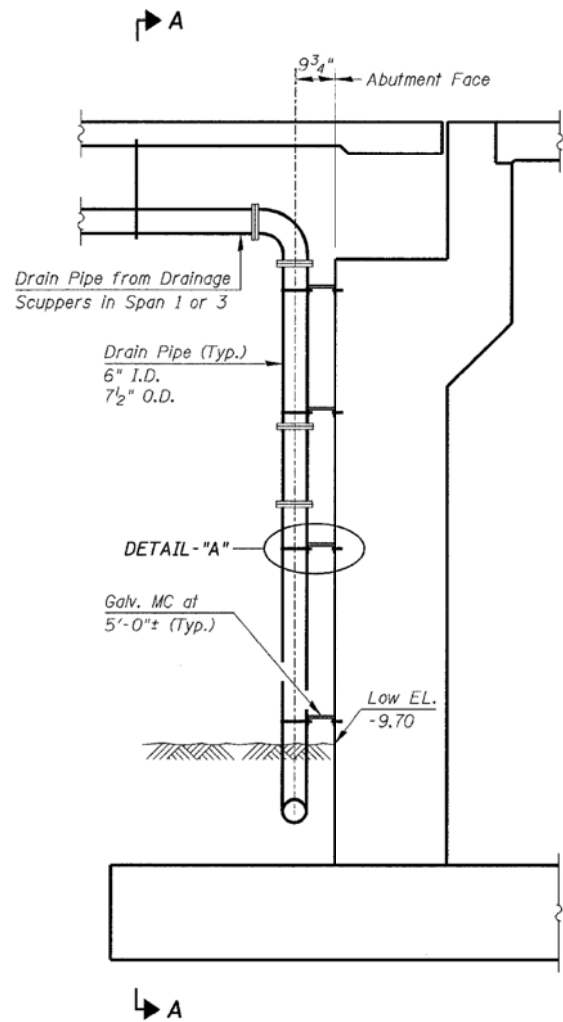
**Notes:**  
 No deck drains will be permitted in the span over the CTA tracks or within 10'-0" of the cross arms of a railroad pole line.

**NOTE-A**  
 Concrete Barriers to be placed on North & South sides of Piers 1 & 2.



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

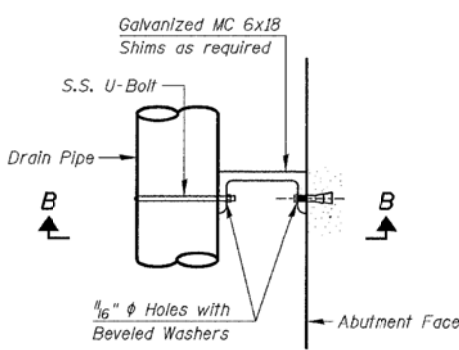
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	3



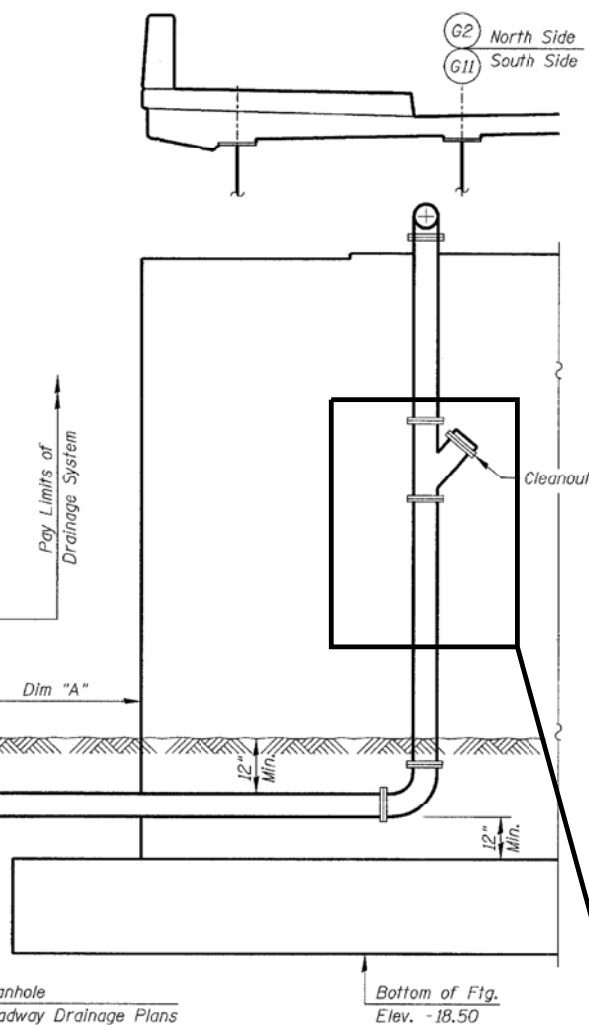
**DRAINAGE SYSTEM AT ABUTMENTS**

**DIM "A"**

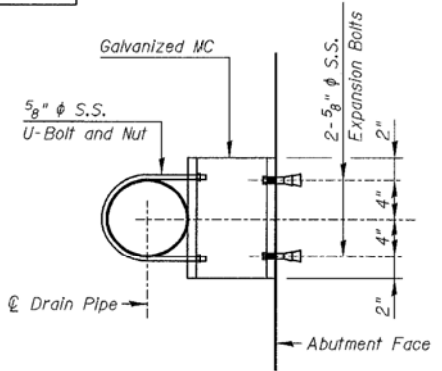
W. Abut.	NW Corner	18.0'
	SW Corner	10.0'
E. Abut.	NE Corner	14.0'
	SE Corner	31.0'



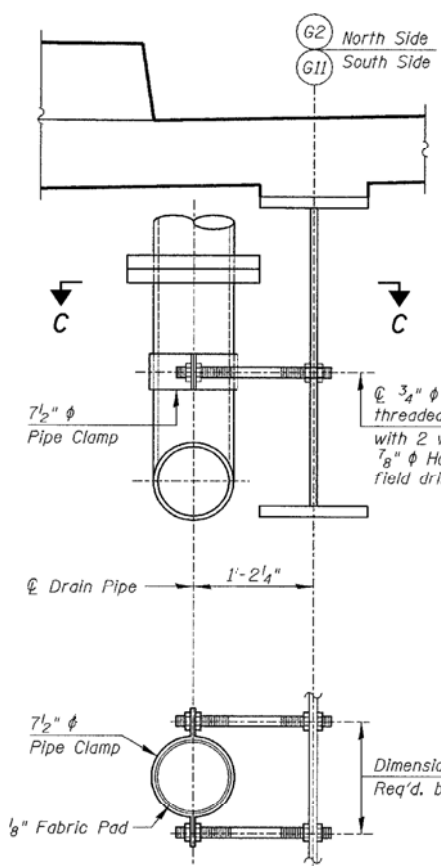
**DETAIL - "A"**



**SECTION A-A**



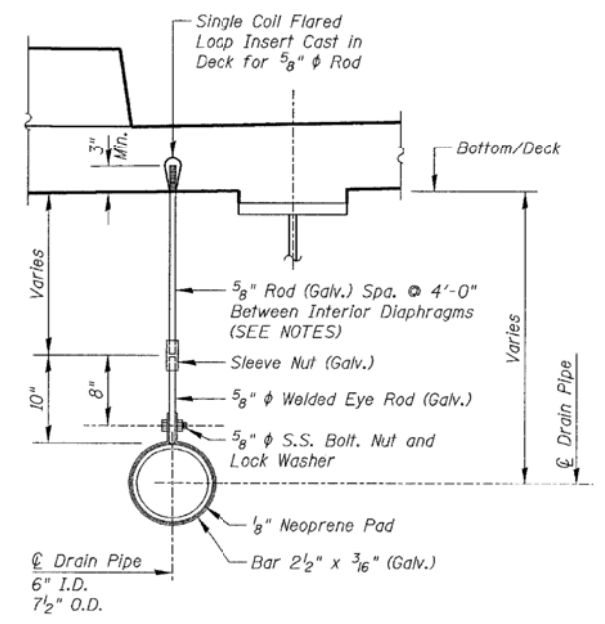
**SECTION B-B**



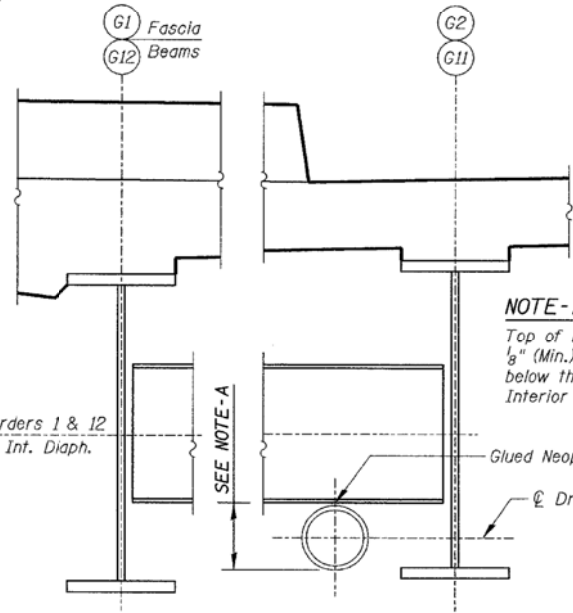
**SECTION C-C**

**VERTICAL PIPE SUPPORT DETAIL**

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

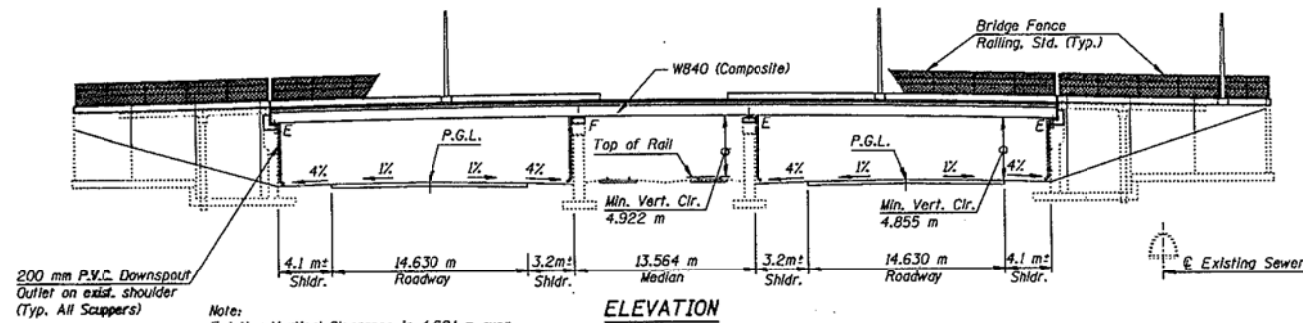


**LONGITUDINAL PIPE SUPPORT DETAIL**



**PIPE AT DIAPHRAGMS**

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



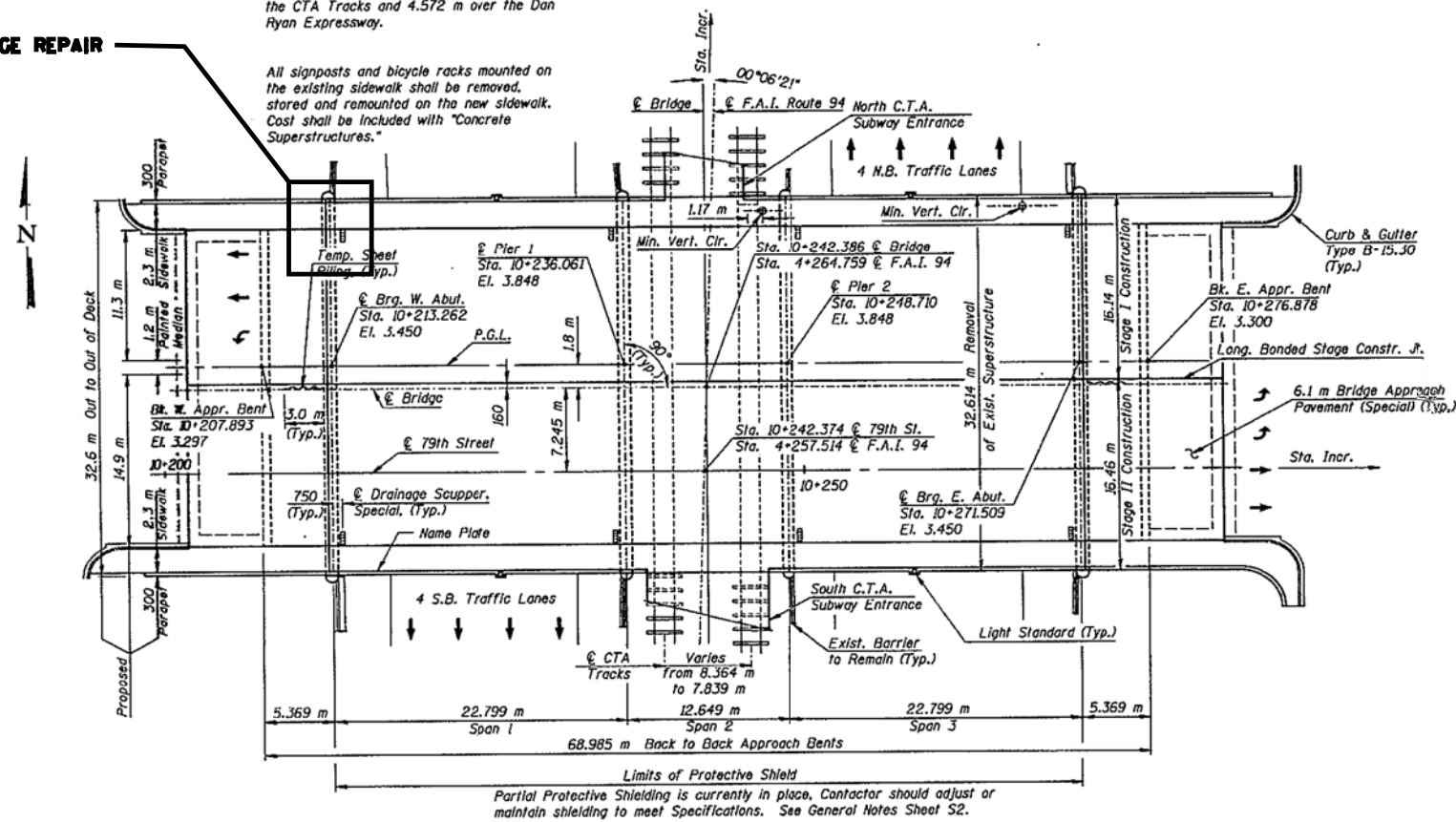
**ELEVATION**

200 mm P.V.C. Downspout  
Outlet on exist. shoulder  
(Typ. All Scuppers)

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

**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**

Limits of Protective Shield  
Partial Protective Shielding is currently in place. Contractor should adjust or  
maintain shielding to meet Specifications. See General Notes Sheet S2.

**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 = dahhr	DESIGNED -	REVISED -
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\138715\Design\138715-sh-LOCATIONS		CHECKED -	REVISED -
Default	PLOT DATE = 7/15/2015	DATE -	REVISED -

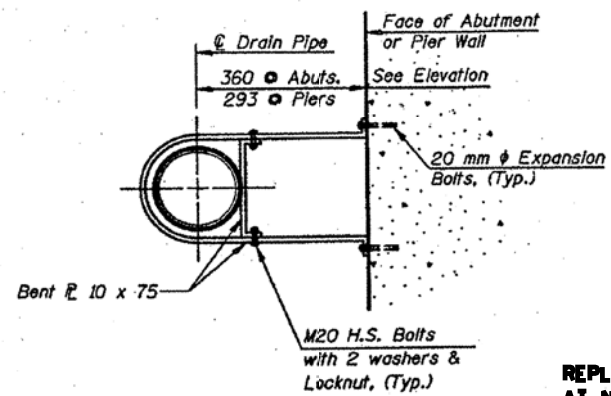
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LOCATION 21 (SN 016-1144)  
GENERAL PLAN AND ELEVATION**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

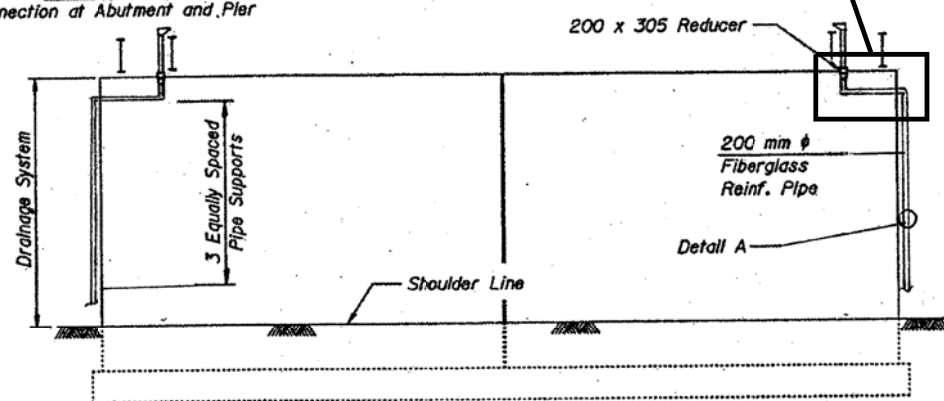
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	64
CONTRACT NO. 62B12				
ILLINOIS FED. AID PROJECT				



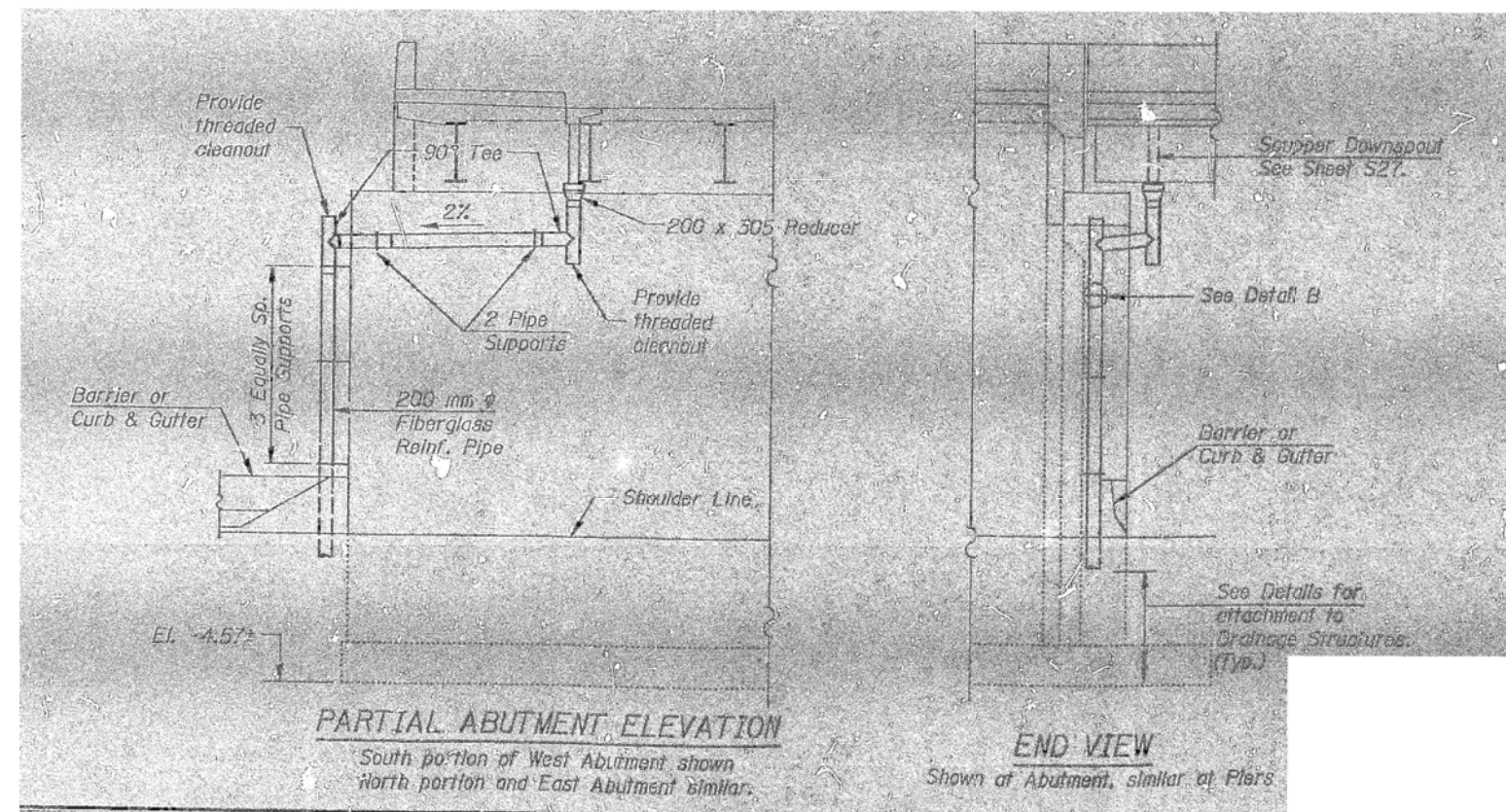


**DETAIL A**  
Connection at Abutment and Pier

**REPLACE DAMAGED PIPE SECTION  
AT NORTH END OF WEST ABUTMENT  
(15 LF)**



**ABUTMENT ELEVATION (WEST)**



**PARTIAL ABUTMENT ELEVATION**

South portion of West Abutment shown  
North portion and East Abutment similar.

**END VIEW**

Shown at Abutment, similar at Piers

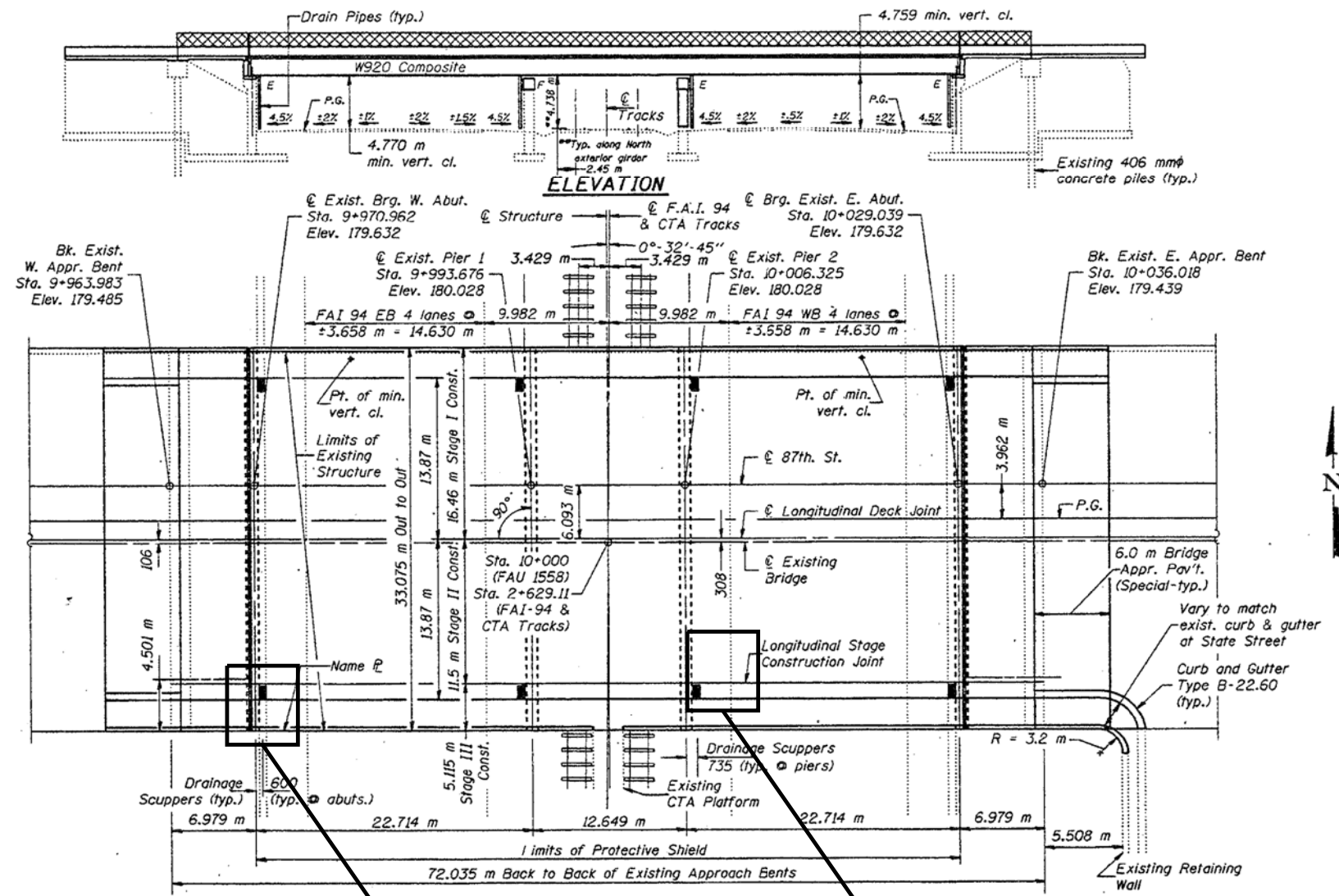
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Default	PLOT SCALE = 100.0009' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/15/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LOCATION 21 (SN 016-1144)  
DRAINAGE DETAILS**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	65
CONTRACT NO. 62B12				
ILLINOIS FED. AID PROJECT				



**REPLACE MISSING/DAMAGED DRAINAGE PIPE SECTION. SEE PHOTO 2 ON SHEET 2 OF 2 (SN 016-1142) (5 LF)**

**REPLACE MISSING CAP AT END OF DRAINAGE PIPE. SEE PHOTO 1 ON SHEET 2 OF 2 (SN 016-1142) (1 LF)**

**BILL OF MATERIAL (S. N. 016-1142)  
87TH ST OVER DAN RYAN**

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	6

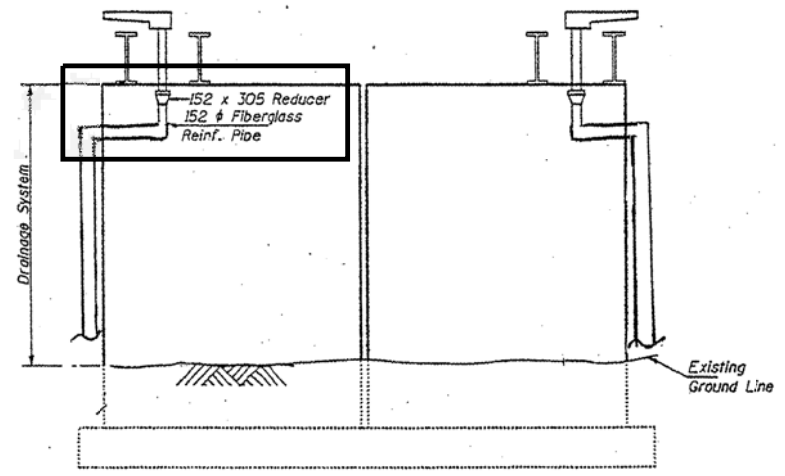
FILE NAME =	USER NAME = dahhr	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0009' / in.	DATE -	REVISED -
	PLOT DATE = 7/15/2015		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

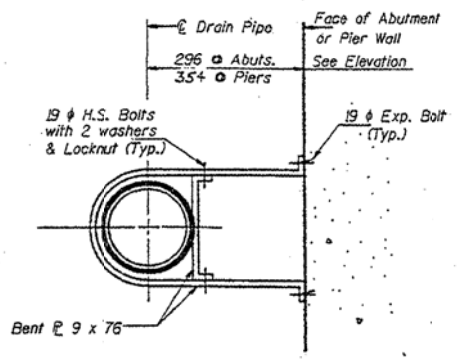
**LOCATION 22 (SN 016-1142)  
GENERAL PLAN AND ELEVATION**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

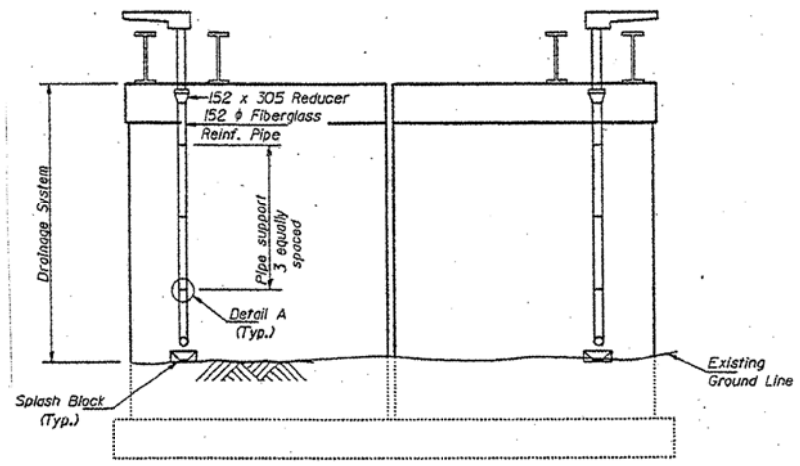
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	66
CONTRACT NO. 62B12				
ILLINOIS FED. AID PROJECT				



**ELEVATION  
ABUTMENTS (WEST)**



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

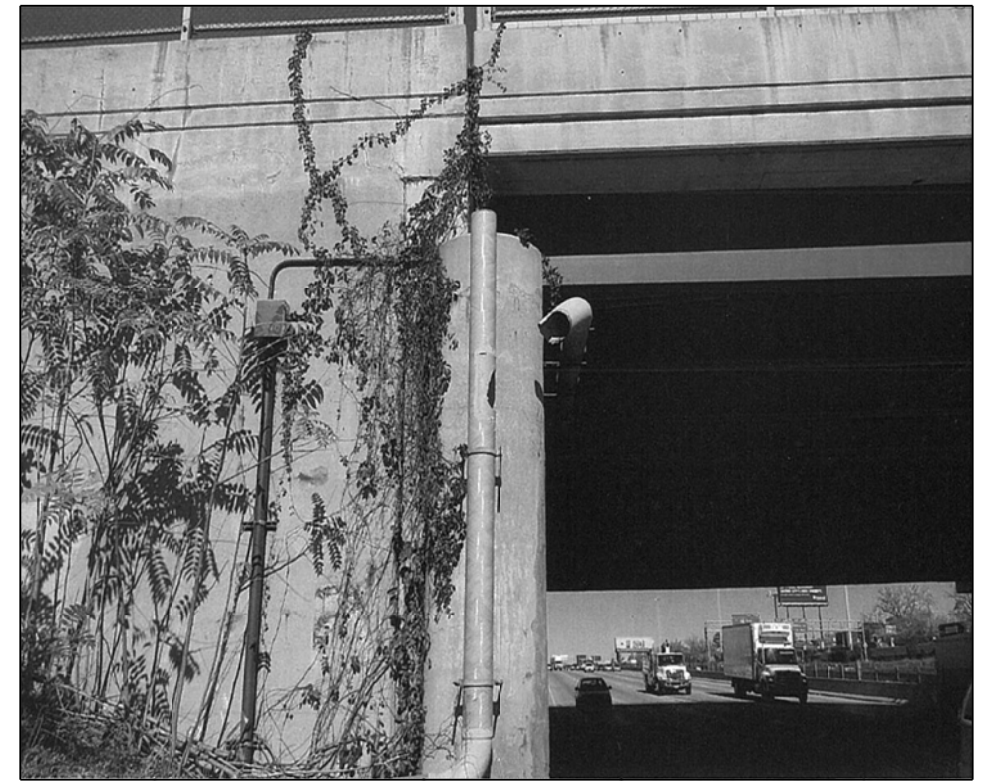


**ELEVATION  
PIERS**

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



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



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

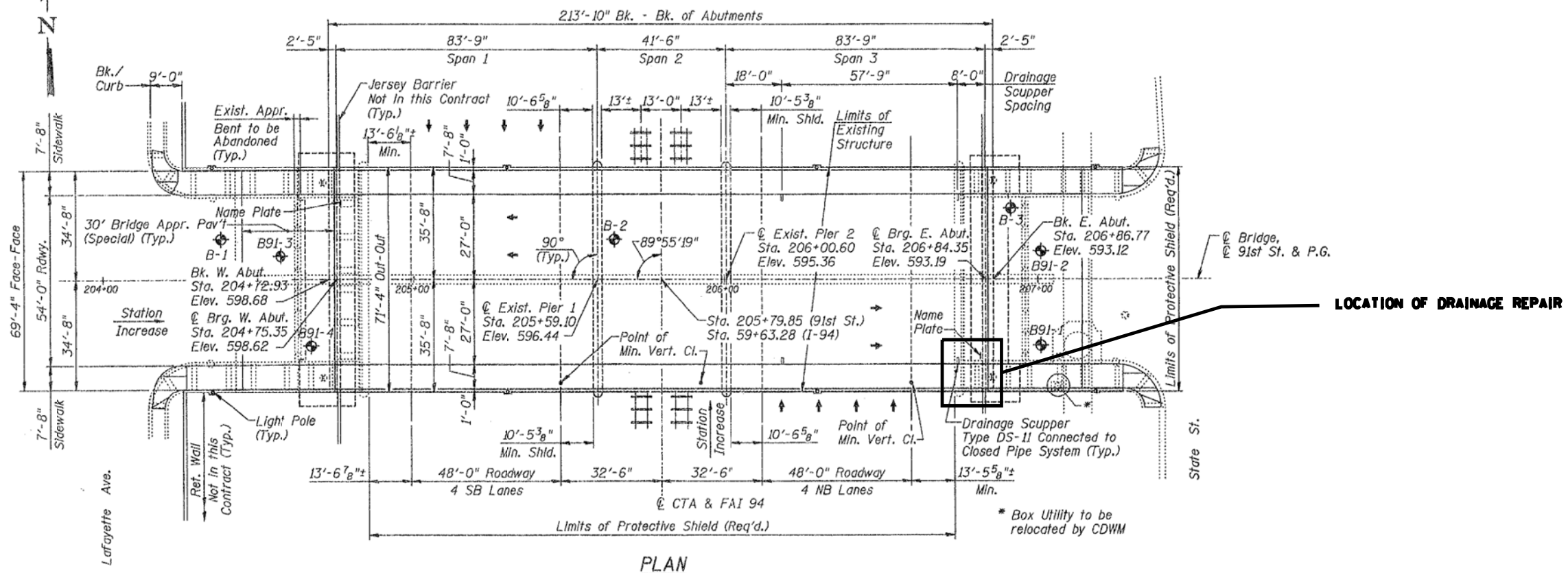
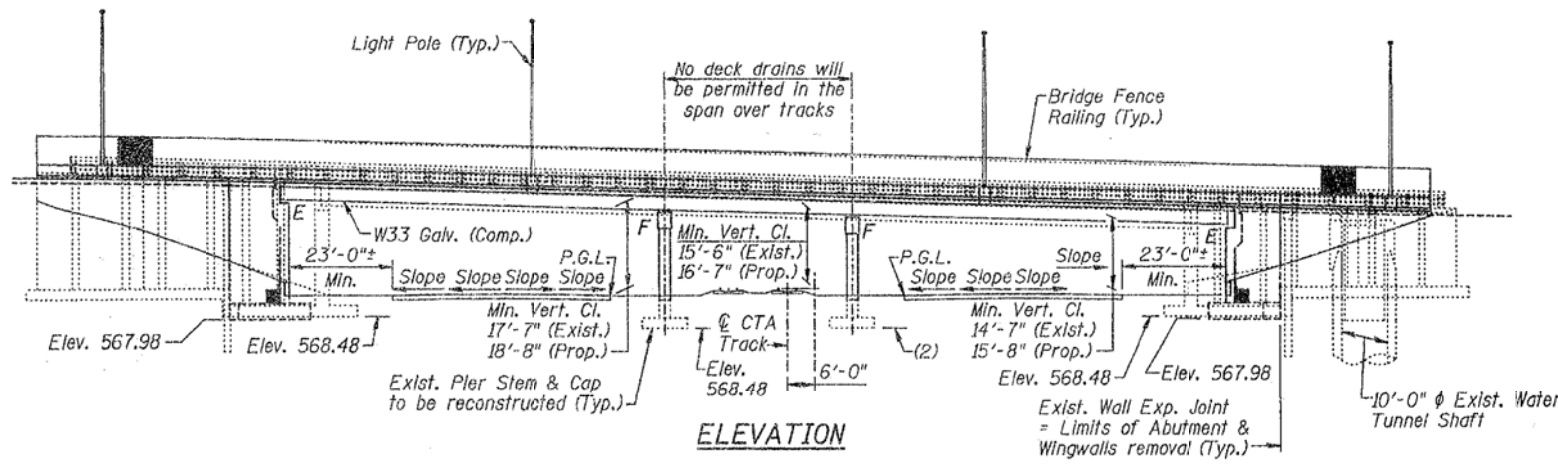
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/15/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LOCATION 22 (SN 016-1142)  
DRAINAGE DETAILS**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

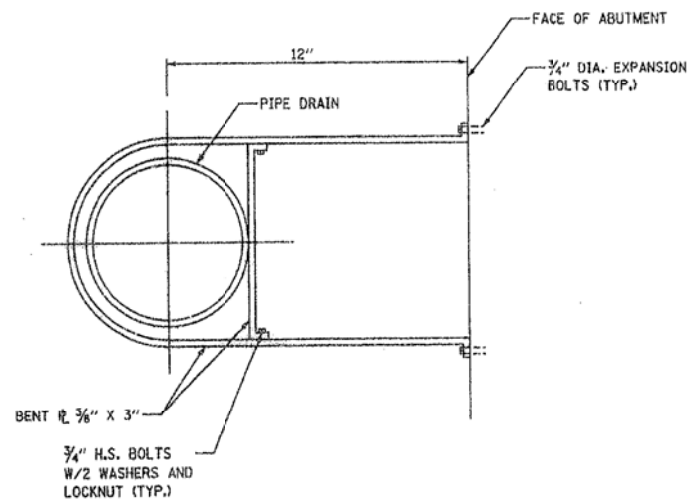
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	67
			CONTRACT NO. 62B12	
ILLINOIS FED. AID PROJECT				



**LOCATION OF DRAINAGE REPAIR**

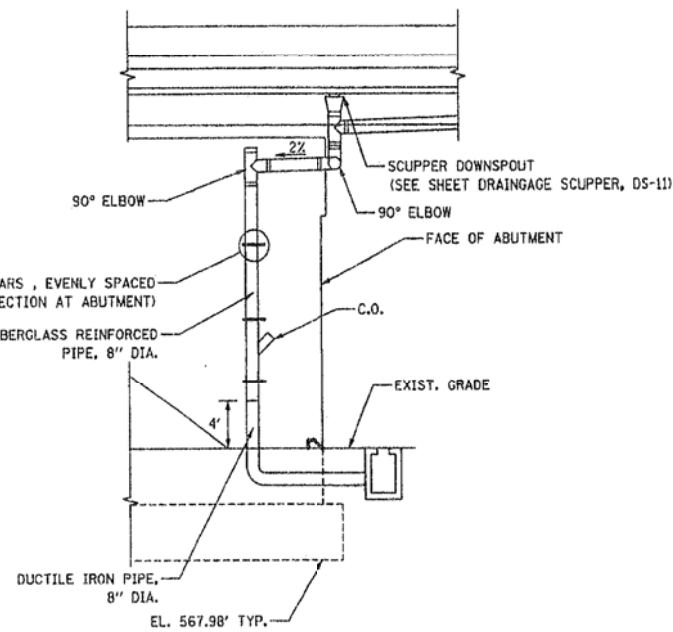
**BILL OF MATERIAL (S. N. 016-1141)  
91ST ST OVER DAN RYAN**

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	10

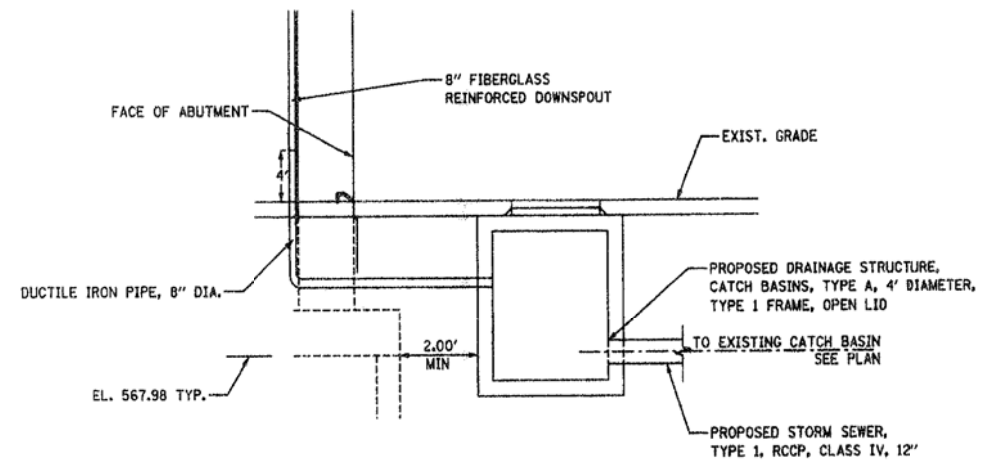


DETAIL (CONNECTION AT ABUTMENT)

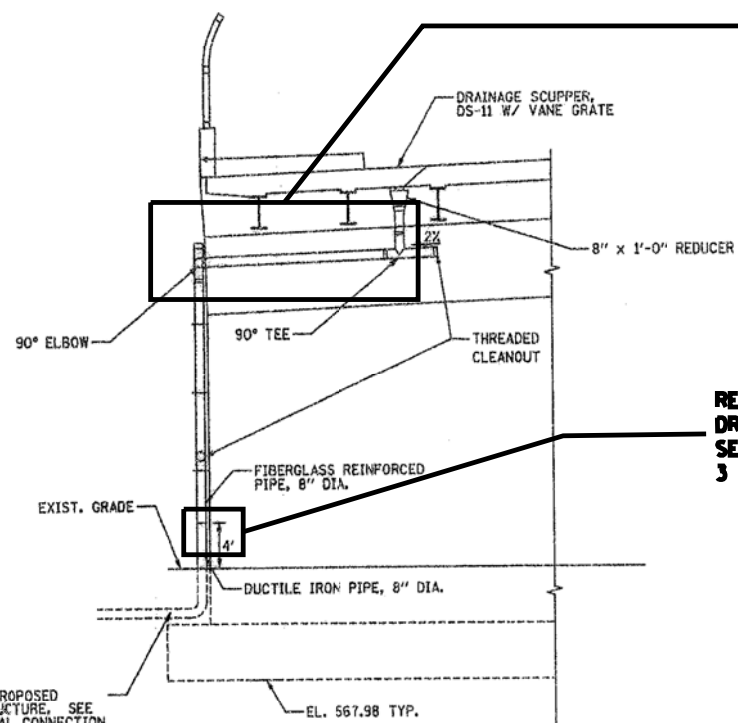
**REPLACE DAMAGED/MISSING DRAINAGE PIPE. SEE PHOTOS 1 AND 2 ON SHEET 3 OF 3 (SN 016-1141) (9 LF)**



END VIEW

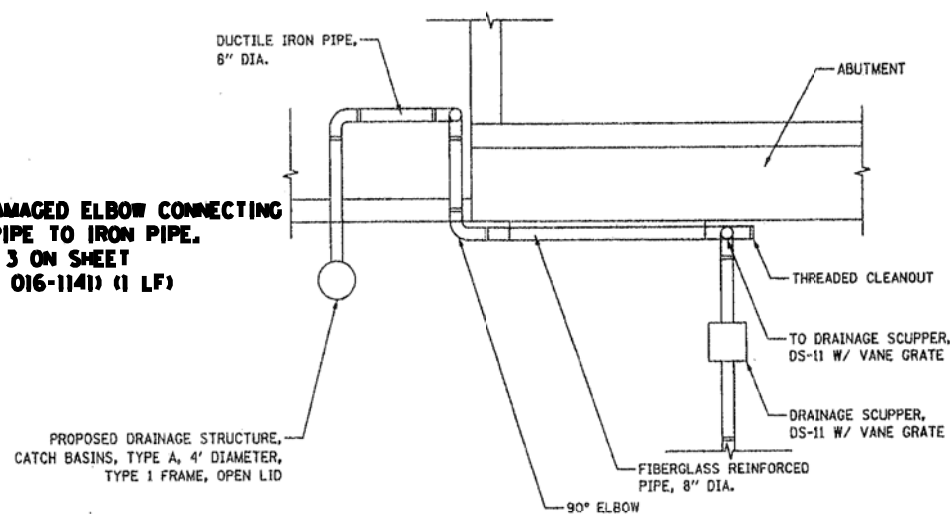


DETAIL (TYPICAL CONNECTION OF DOWNSPOUT TO I-94 DRAINAGE)



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

FILE NAME =	USER NAME = dahhr	DESIGNED -	REVISED -
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI387\Design\DI38715-shr-LOCATIONS		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/15/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOCATION 23 (SN 016-1141)  
DRAINAGE DETAILS

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	69
CONTRACT NO. 62B12				
ILLINOIS FED. AID PROJECT				



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



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



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

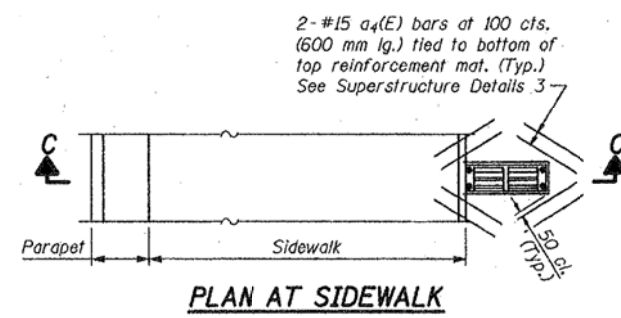
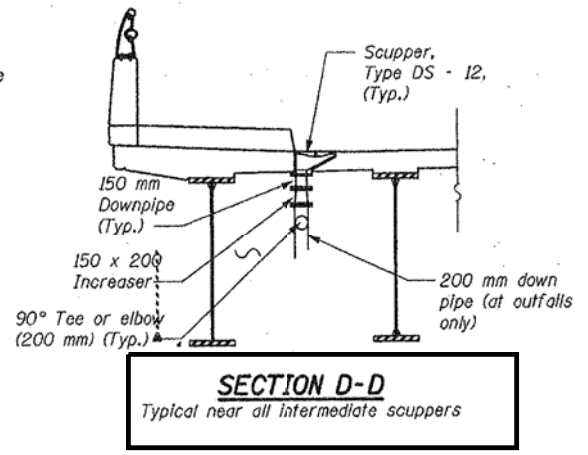
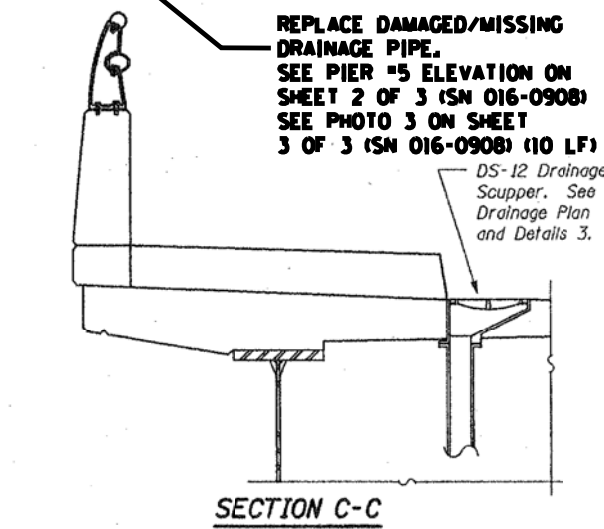
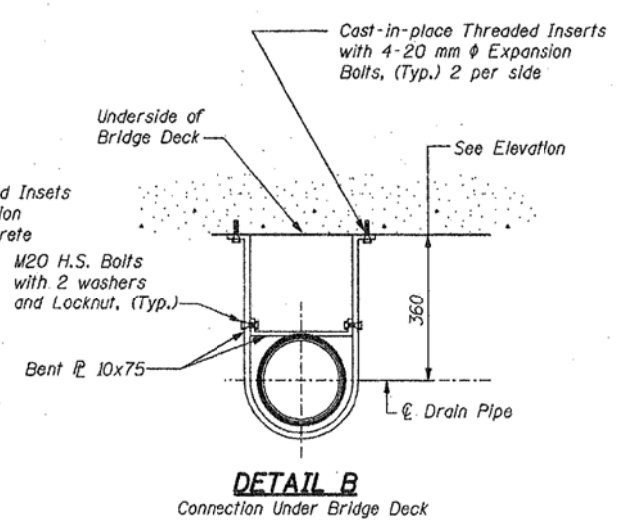
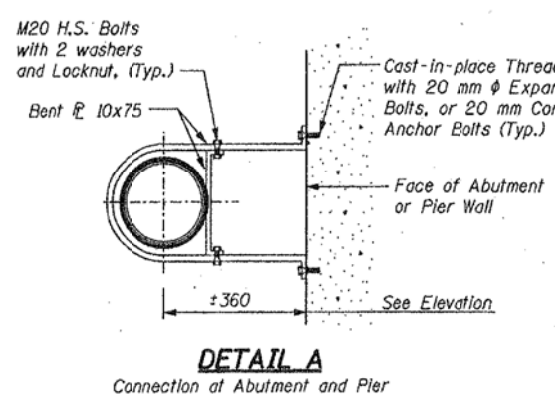
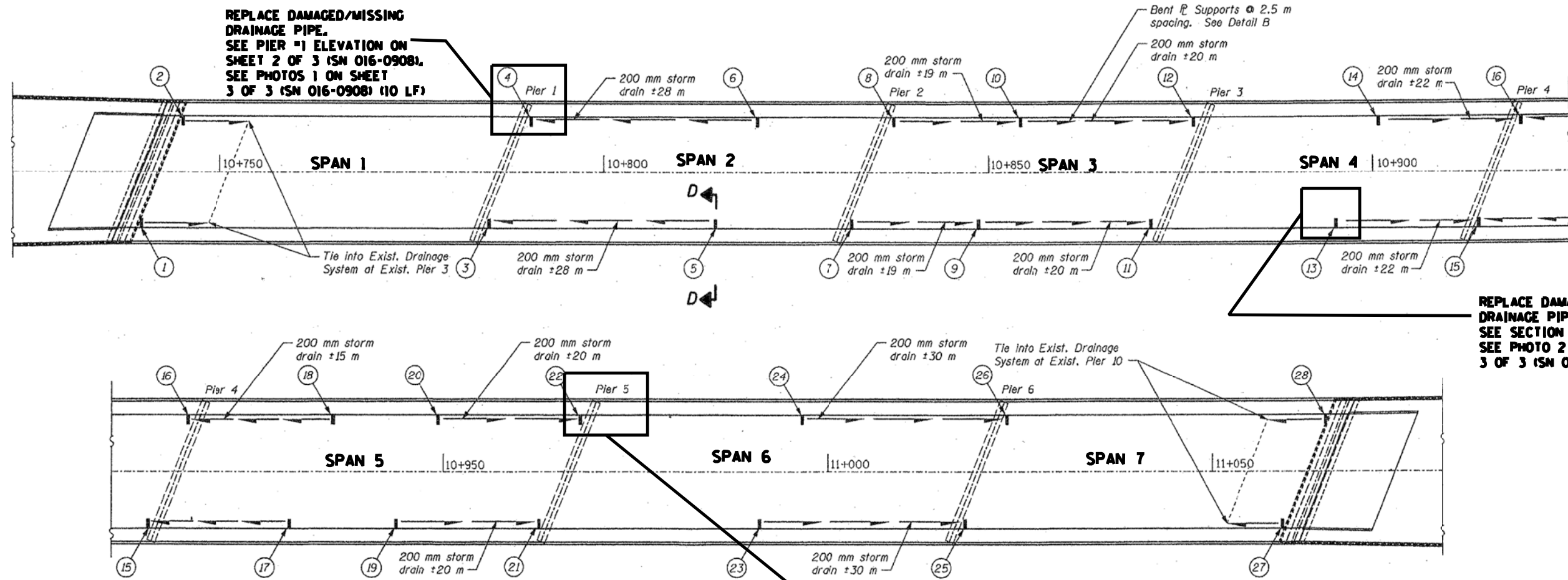
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Default	PLOT SCALE = 100.0009' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/15/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOCATION 23 (SN 016-1141)  
DETAILS

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

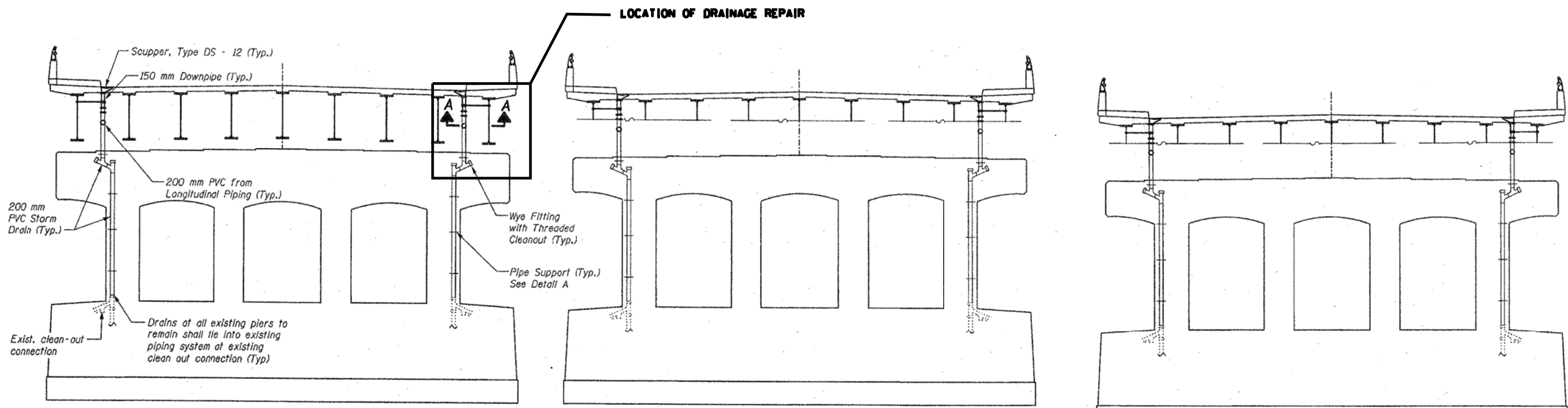
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	70
			CONTRACT NO. 62B12	
ILLINOIS FED. AID PROJECT				



Scupper Number	Station	Offset	Type
1	10+740 RT	7.2 m	DS 12
2	10+745 LT	7.2 m	DS 12
3	10+786 RT	7.2 m	DS 12
4	10+791 LT	7.2 m	DS 12
5	10+814 RT	7.2 m	DS 12
6	10+819 LT	7.2 m	DS 12
7	10+832 RT	7.2 m	DS 12
8	10+837 LT	7.2 m	DS 12
9	10+851 RT	7.2 m	DS 12
10	10+856 LT	7.2 m	DS 12
11	10+871 RT	7.2 m	DS 12
12	10+876 LT	7.2 m	DS 12
13	10+893 RT	7.2 m	DS 12
14	10+898 LT	7.2 m	DS 12
15	10+914.5 RT	7.2 m	DS 12
16	10+919.5 LT	7.2 m	DS 12
17	10+930 RT	7.2 m	DS 12
18	10+935 LT	7.2 m	DS 12
19	10+943 RT	7.2 m	DS 12
20	10+948 LT	7.2 m	DS 12
21	10+962.5 RT	7.2 m	DS 12
22	10+967.5 LT	7.2 m	DS 12
23	10+988 RT	7.2 m	DS 12
24	10+993 LT	7.2 m	DS 12
25	11+017.5 RT	7.2 m	DS 12
26	11+022.5 LT	7.2 m	DS 12
27	11+059 RT	7.2 m	DS 12
28	11+064 LT	7.2 m	DS 12

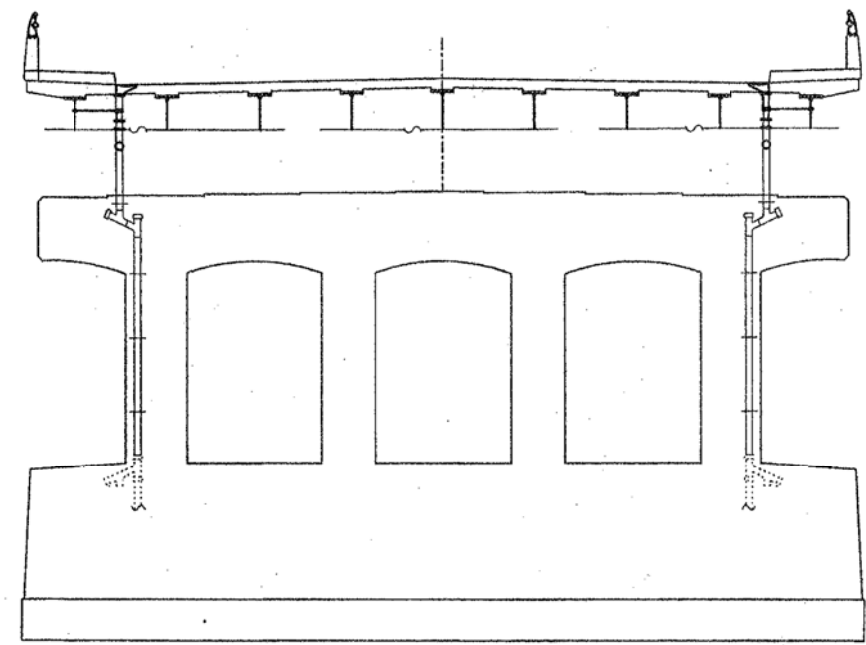
BILL OF MATERIAL (S. N. 016-0908)  
127TH ST OVER RR

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	25

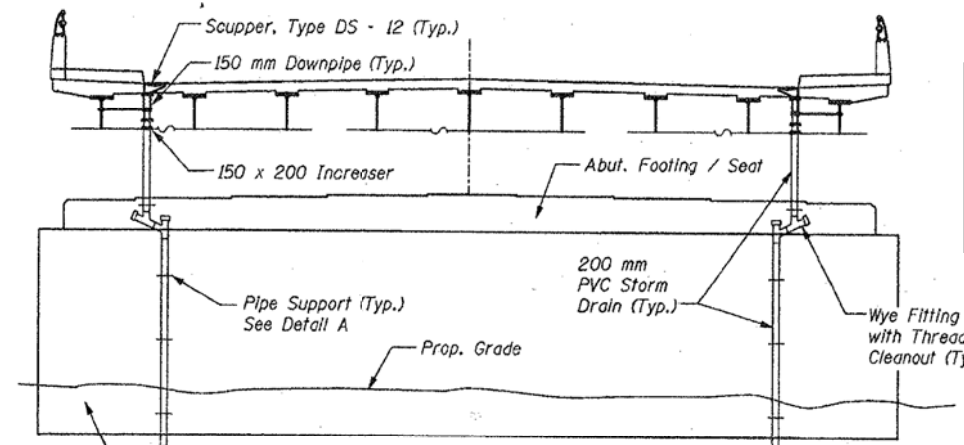


PIER #1 - Looking West

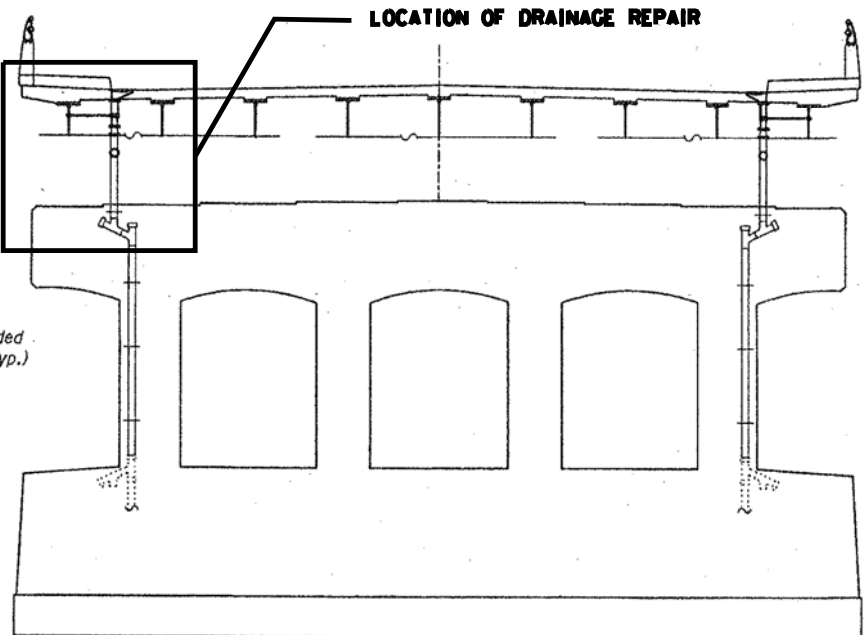
PIER #3 - Looking East



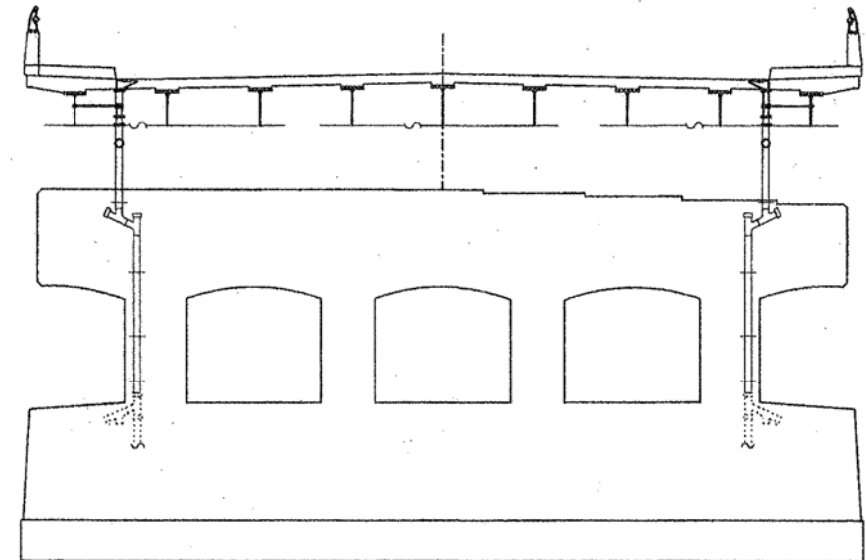
PIER #4 - Looking West



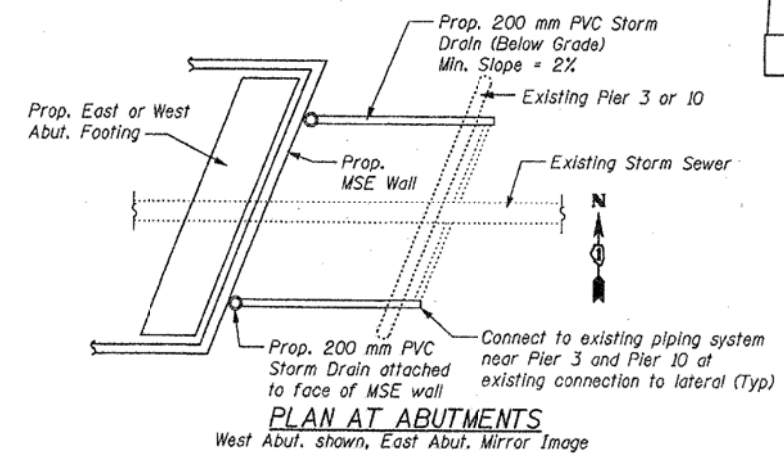
WEST ABUTMENT - Looking West  
EAST ABUTMENT - Mirror Image



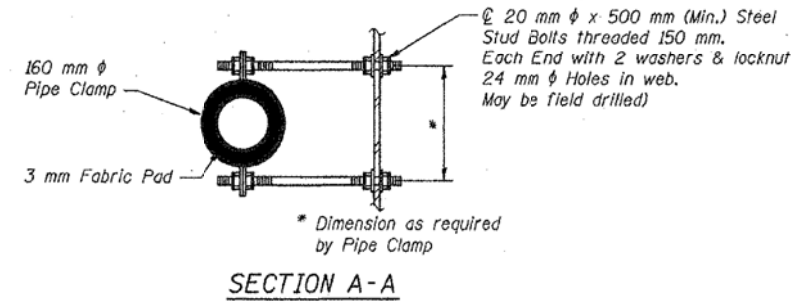
PIER #5 - Looking East



PIER #6 - Looking West



PLAN AT ABUTMENTS  
West Abut. shown, East Abut. Mirror Image



SECTION A-A

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pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\13877\Drawings\Design\138715-sh-LOCATIONS		CHECKED -	REVISED -
Default	PLOT DATE = 7/15/2015	DATE -	REVISED -

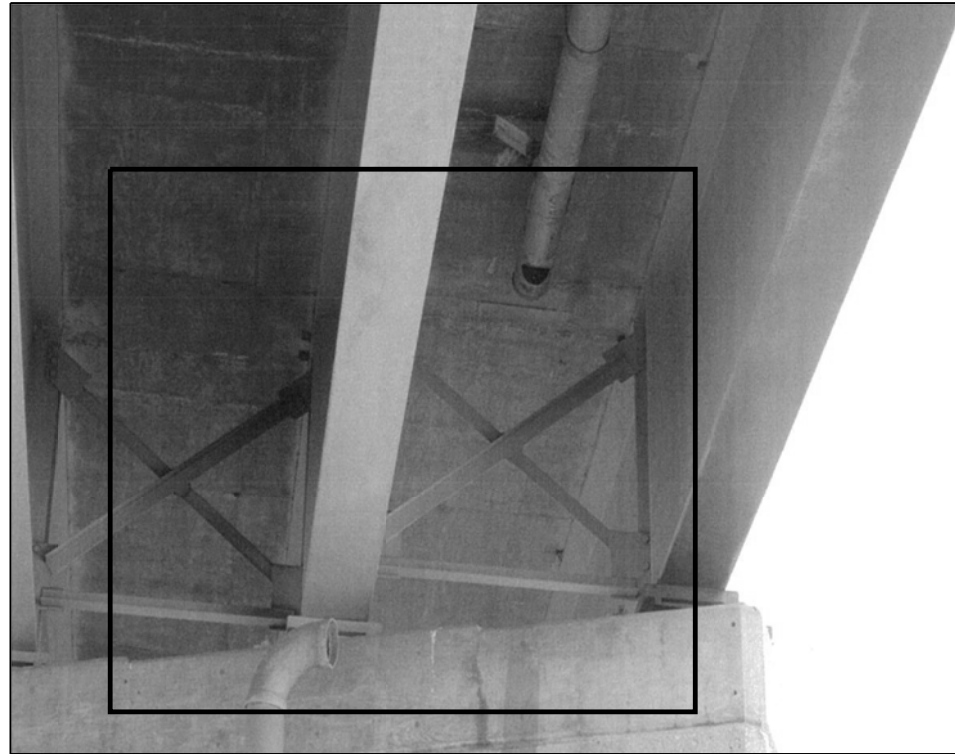
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOCATION 24 (SN 016-0908)  
DRAINAGE DETAILS

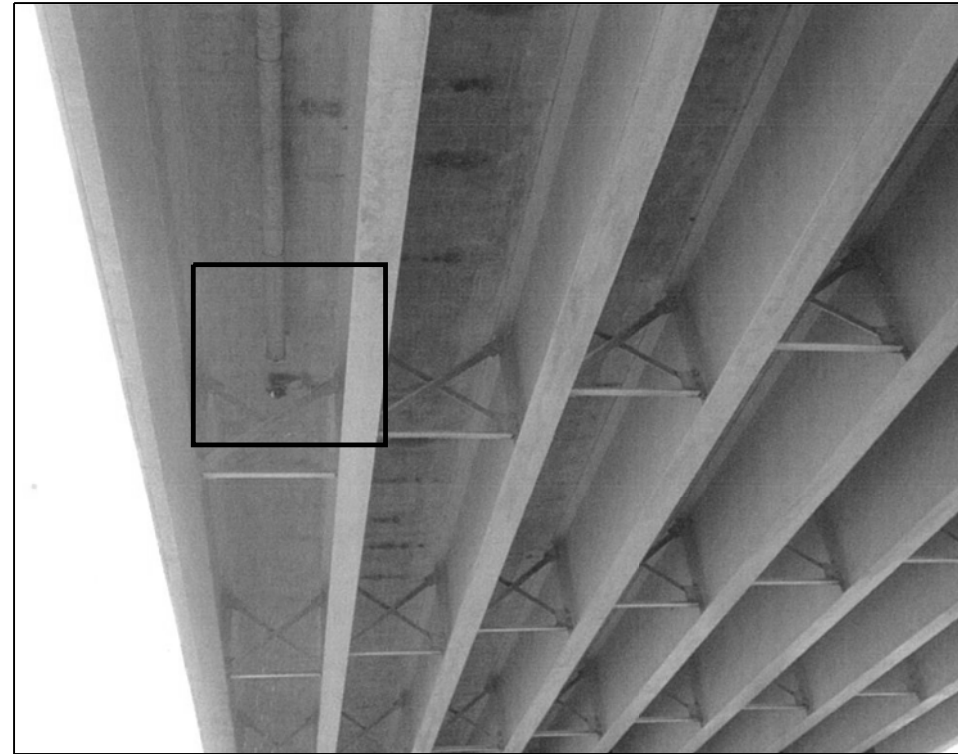
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	72
CONTRACT NO. 62B12				
ILLINOIS FED. AID PROJECT				

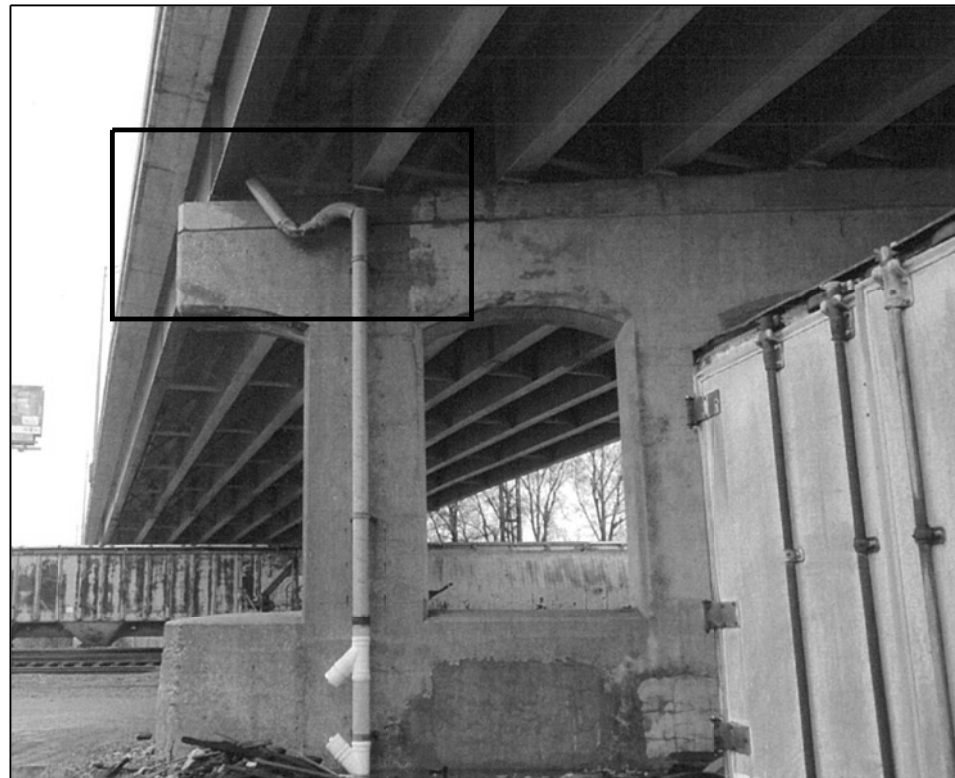




016-0908 PHOTO #1  
PIER 1 \_ EAST FACE  
NORTH END



016-0908 PHOTO #2  
SPAN 4 \_ SOUTH BAY



016-0908 PHOTO #3  
PIER 5 \_ WEST FACE  
NORTH END

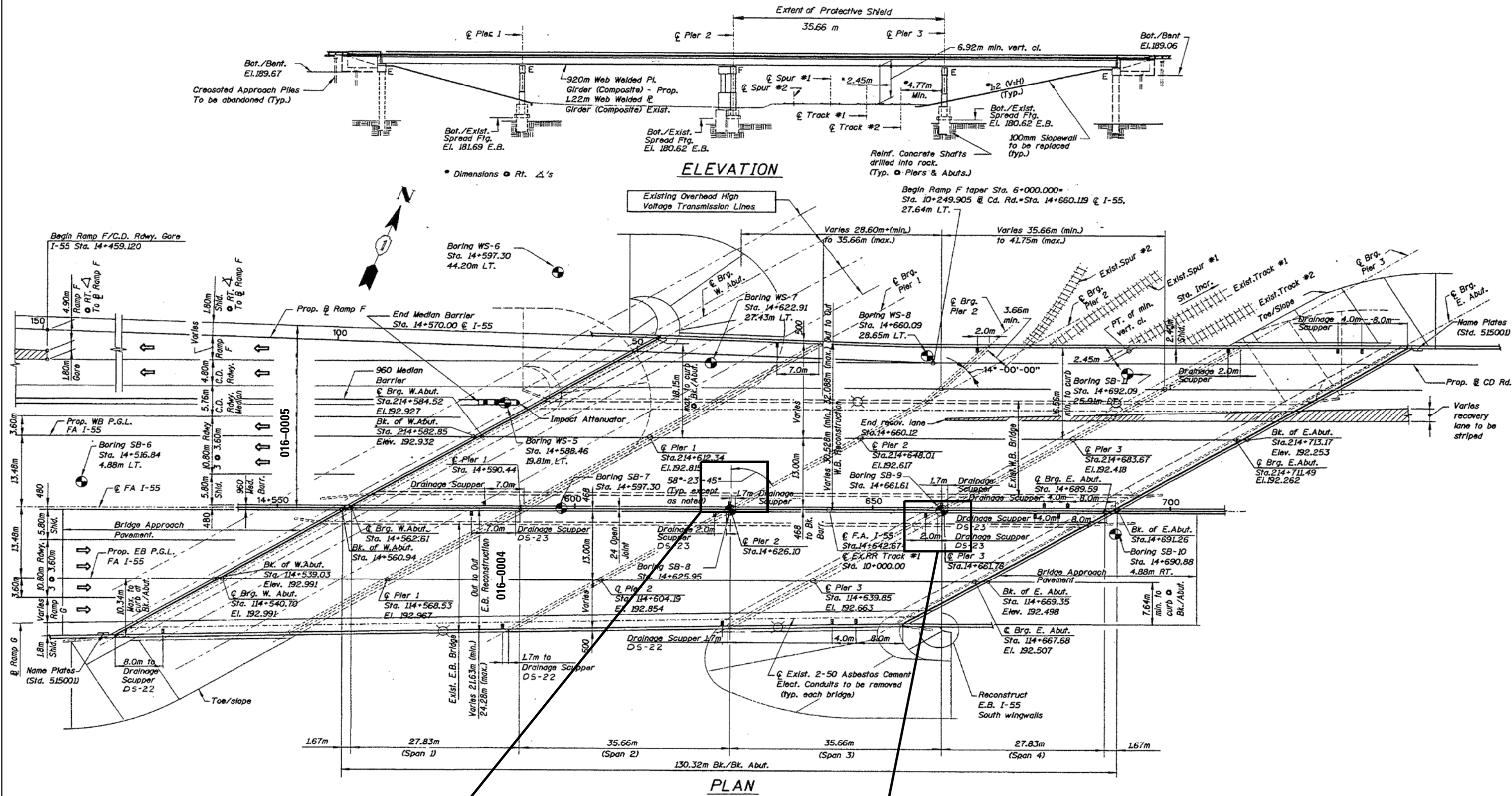
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Default	PLOT SCALE = 100.0018 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/15/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOCATION 24 (SN 016-0908)  
DETAILS

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	73
			CONTRACT NO. 62B12	
ILLINOIS FED. AID PROJECT				

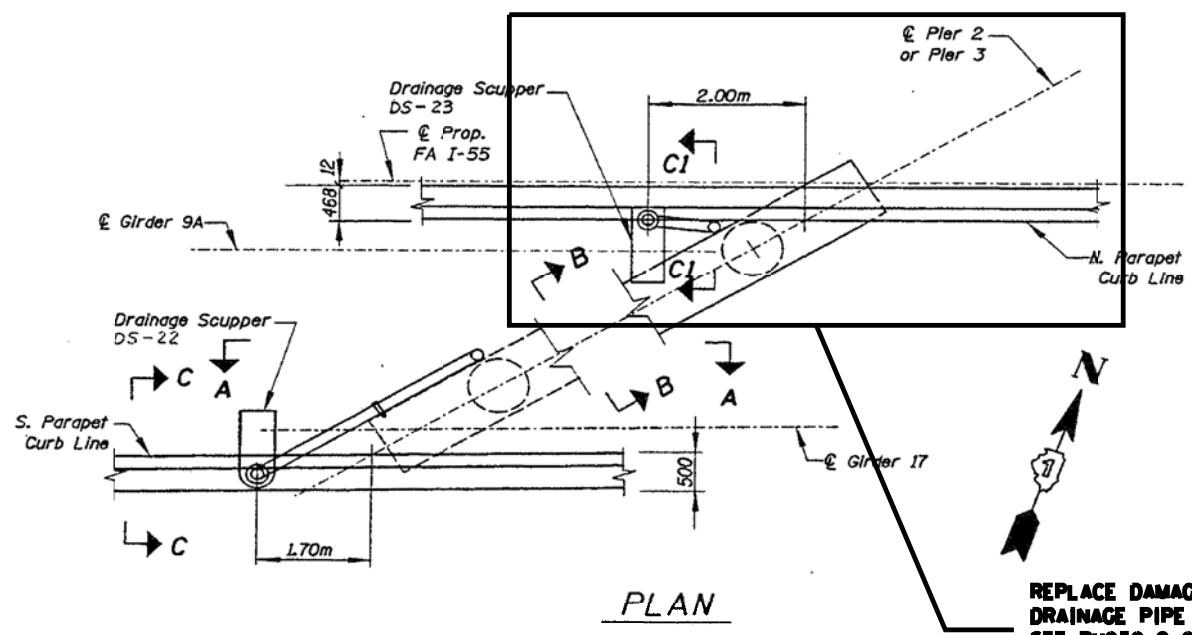


LOCATION OF DRAINAGE REPAIR  
SEE SHEET 3 OF 4 (SN 016-0005)

LOCATION OF DRAINAGE REPAIR  
SEE SHEET 2 OF 4 (SN 016-0004)

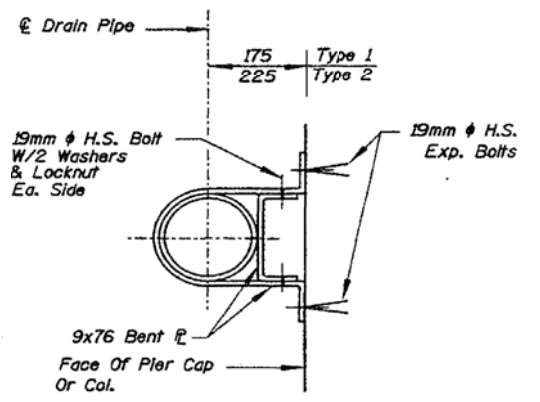
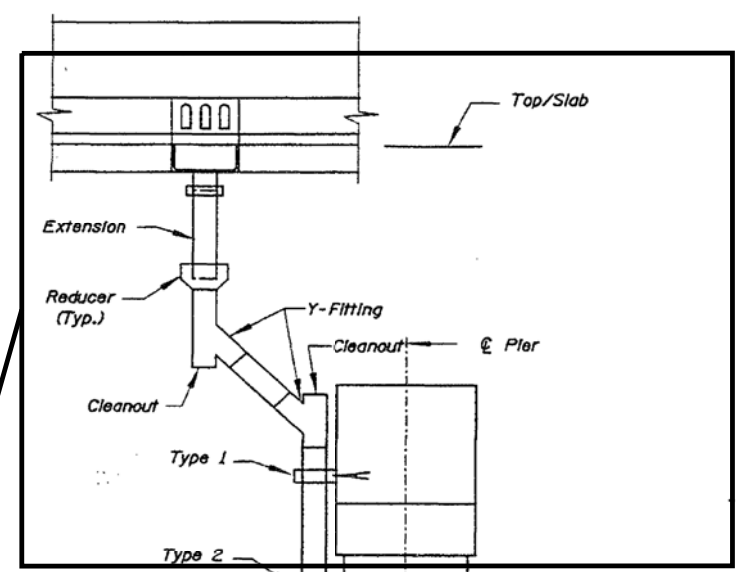
BILL OF MATERIAL (S.N. 016-0004 AND 016-0005)  
I-55 OVER RR

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	10

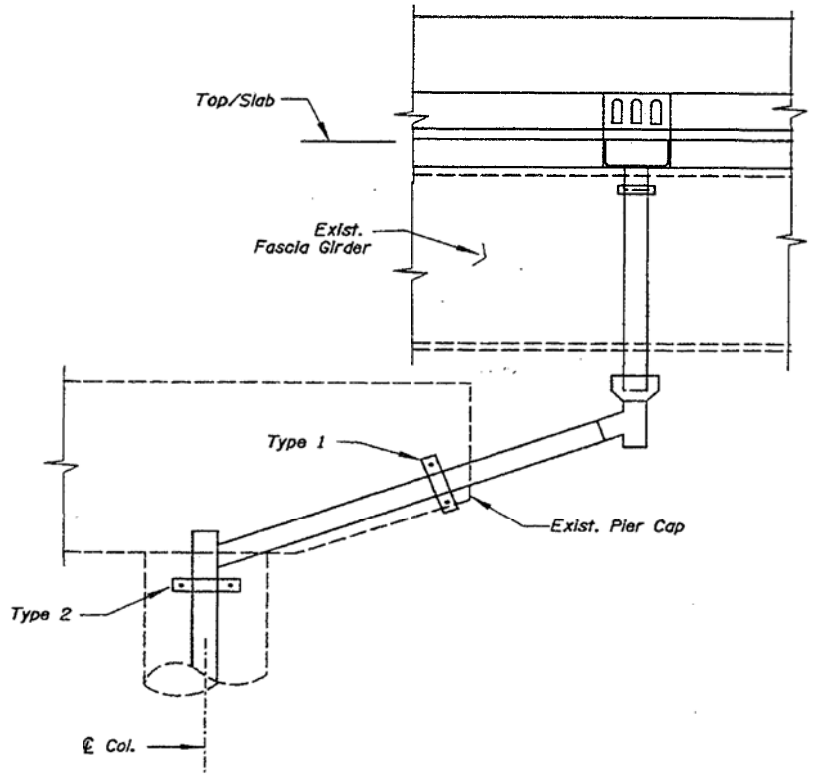


PLAN

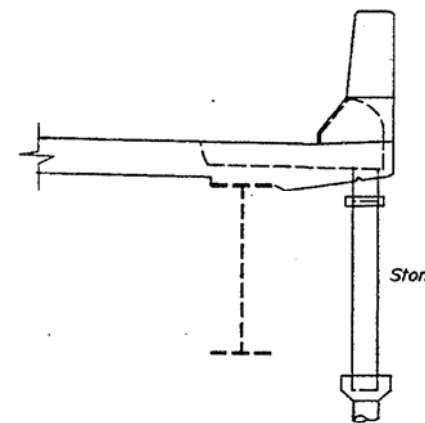
REPLACE DAMAGED/MISSING DRAINAGE PIPE AT PIER 3. SEE PHOTO 2 ON SHEET 4 OF 4 (SN 016-004 AND 016-005) (5 LF)



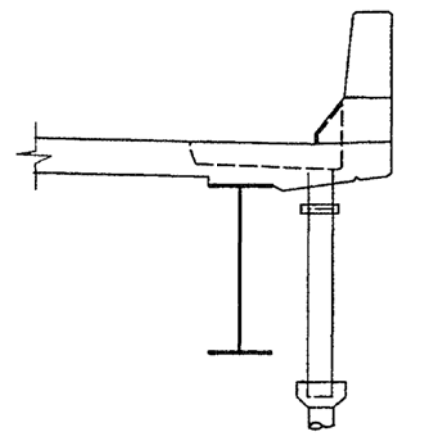
PLAN-DETAIL D  
Pipe Support @ Pier Cap & Pier Col. See Sections.



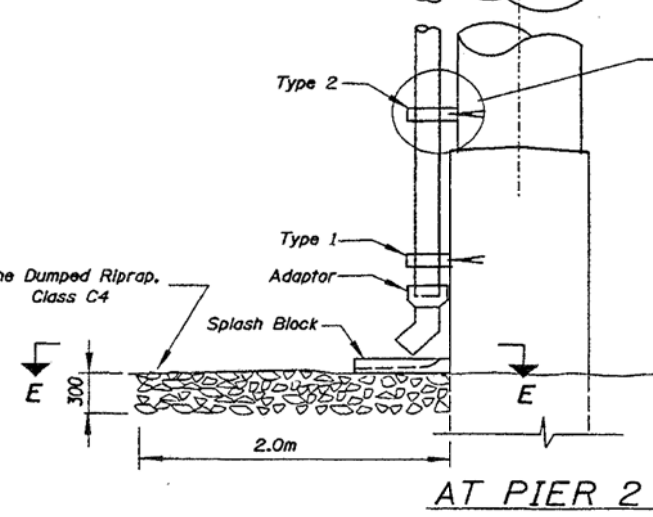
SECTION A-A



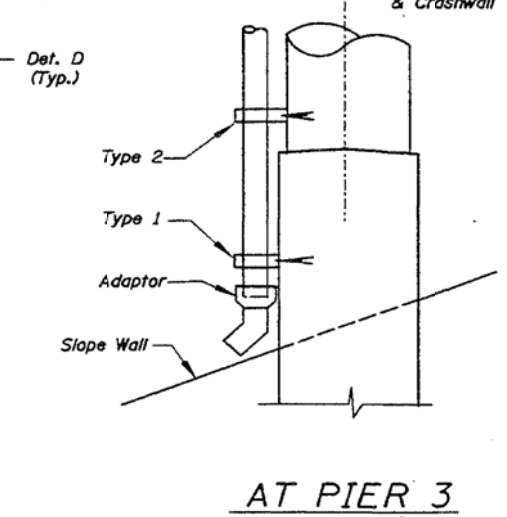
SECTION C-C



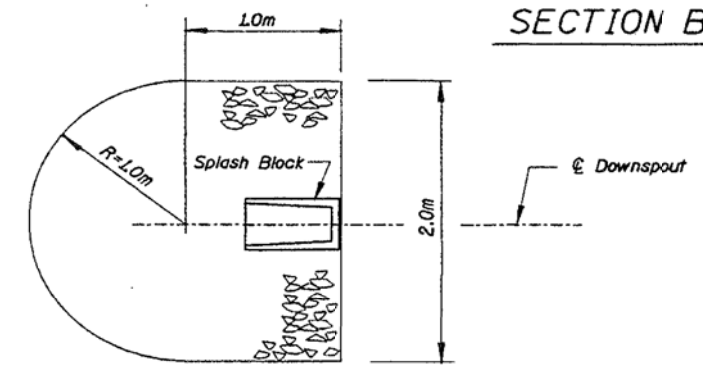
SECTION C1-C1



AT PIER 2



AT PIER 3



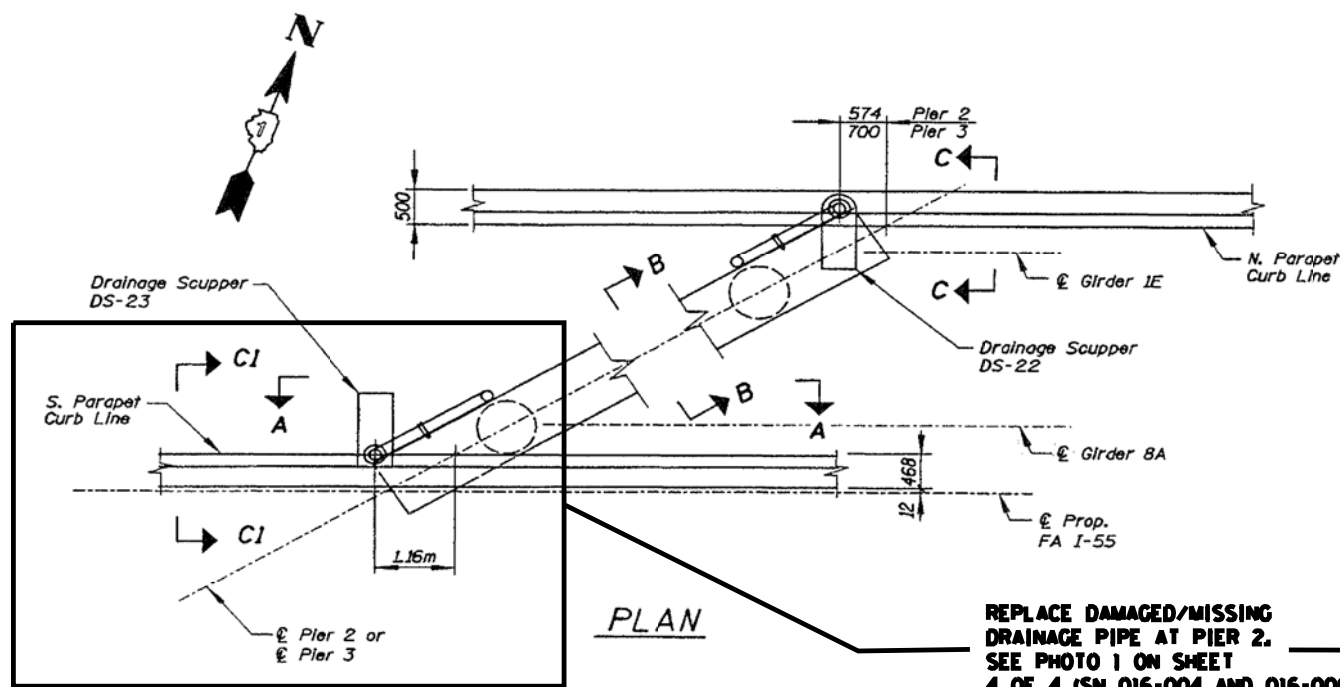
SECTION E-E  
Limits of Stone Dumped Riprap, Class C4.

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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/15/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

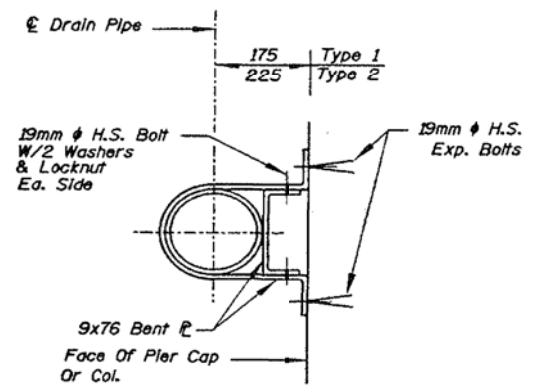
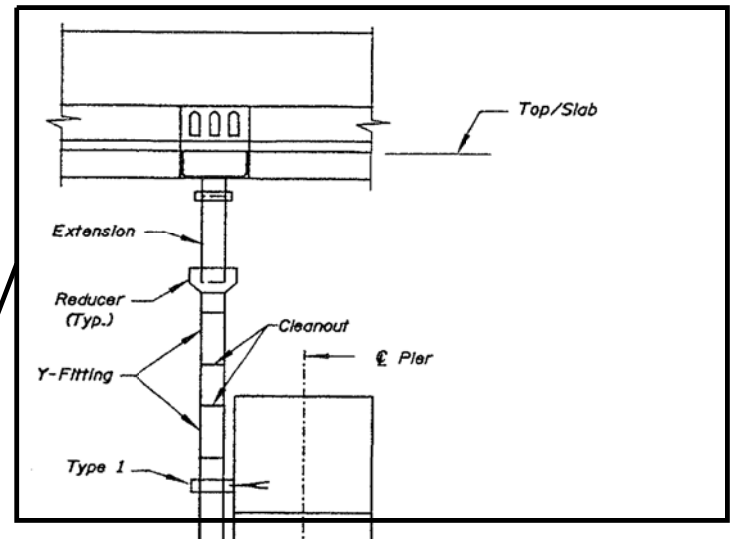
LOCATION 25 (EB SN 016-0004)			
DRAINAGE DETAILS			
SCALE:	SHEET 2	OF 4 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	75
CONTRACT NO. 62B12				
ILLINOIS FED. AID PROJECT				



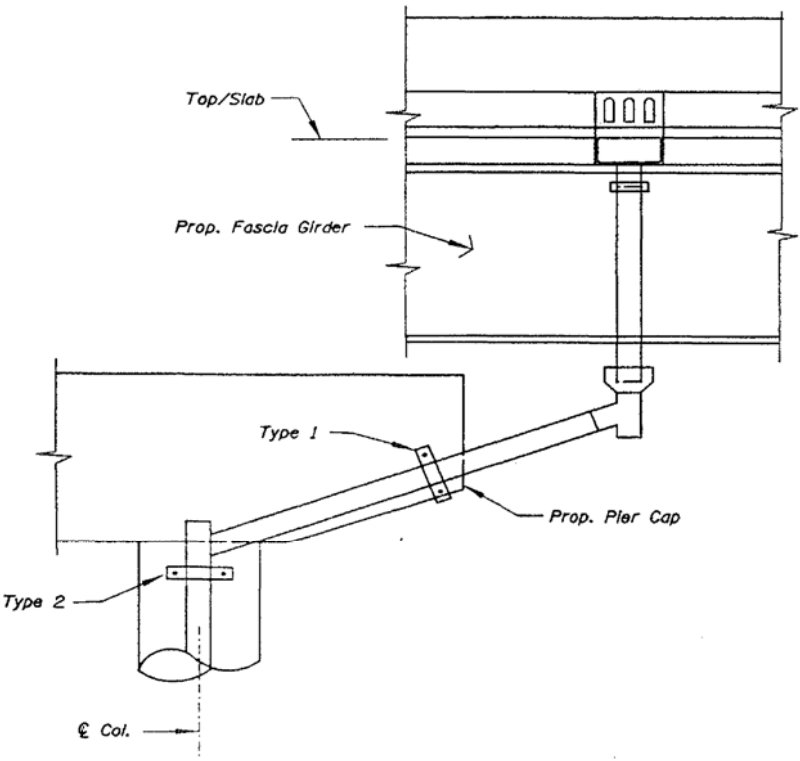
PLAN

REPLACE DAMAGED/MISSING DRAINAGE PIPE AT PIER 2. SEE PHOTO 1 ON SHEET 4 OF 4 (SN 016-004 AND 016-0005) (5 LF)

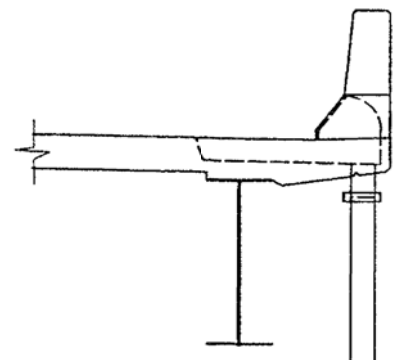


PLAN-DETAIL D

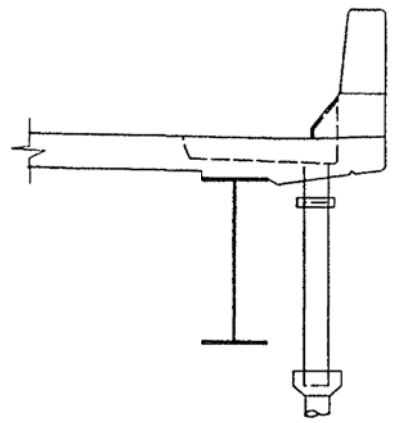
Pipe Support @ Pier Cap & Pier Col. See Sections.



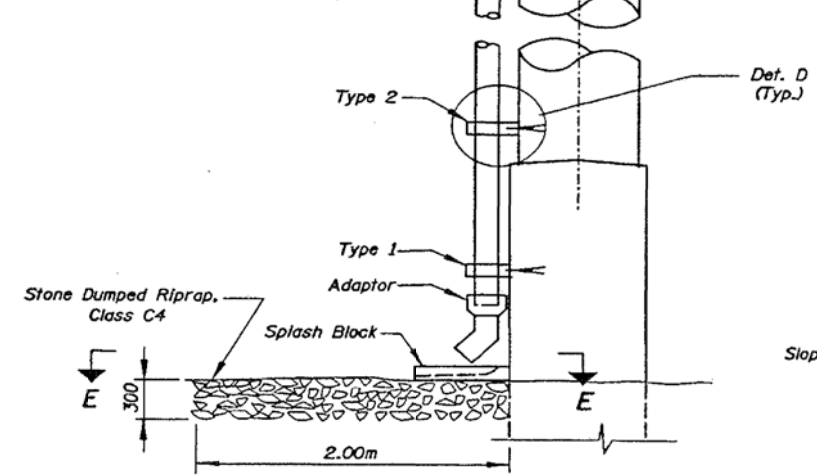
SECTION A-A



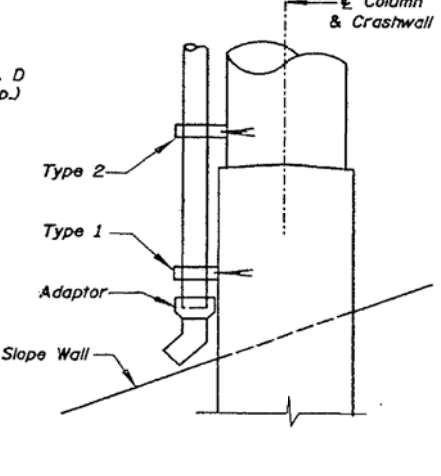
SECTION C-C



SECTION C1-C1

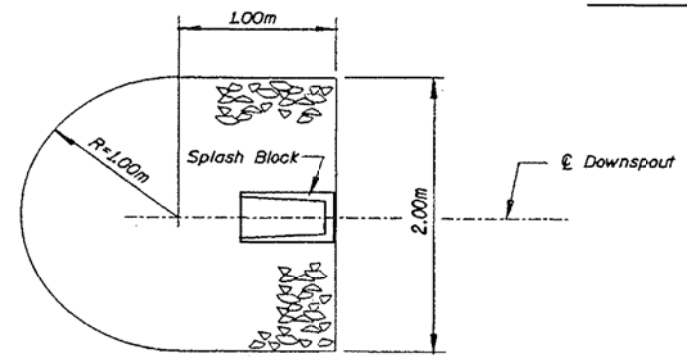


AT PIER 2



AT PIER 3

SECTION B-B



SECTION E-E

Limits of Stone Dumped Riprap, Class C4.

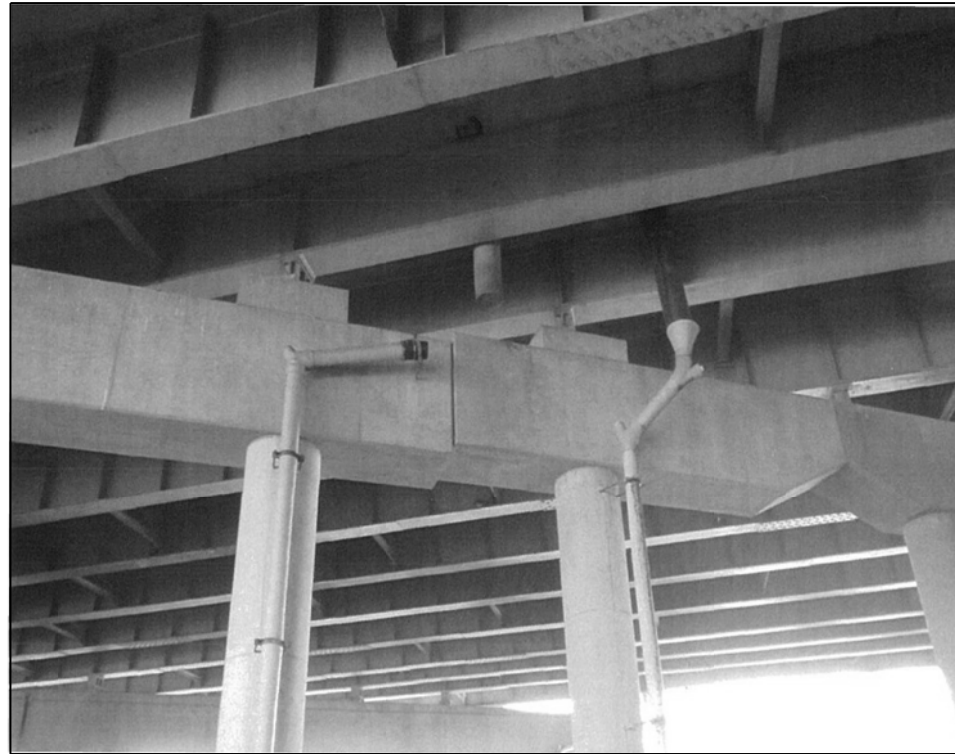
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Default	PLOT SCALE = 100.0009' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/15/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOCATION 25 (WB SN 016-0005)  
DRAINAGE DETAILS

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	76
CONTRACT NO. 62B12				
ILLINOIS FED. AID PROJECT				



016-0004 AND 016-0005 PHOTO #1  
PIER 2 \_ WEST FACE



016-0004 AND 016-0005 PHOTO #2  
PIER 3 \_ WEST FACE

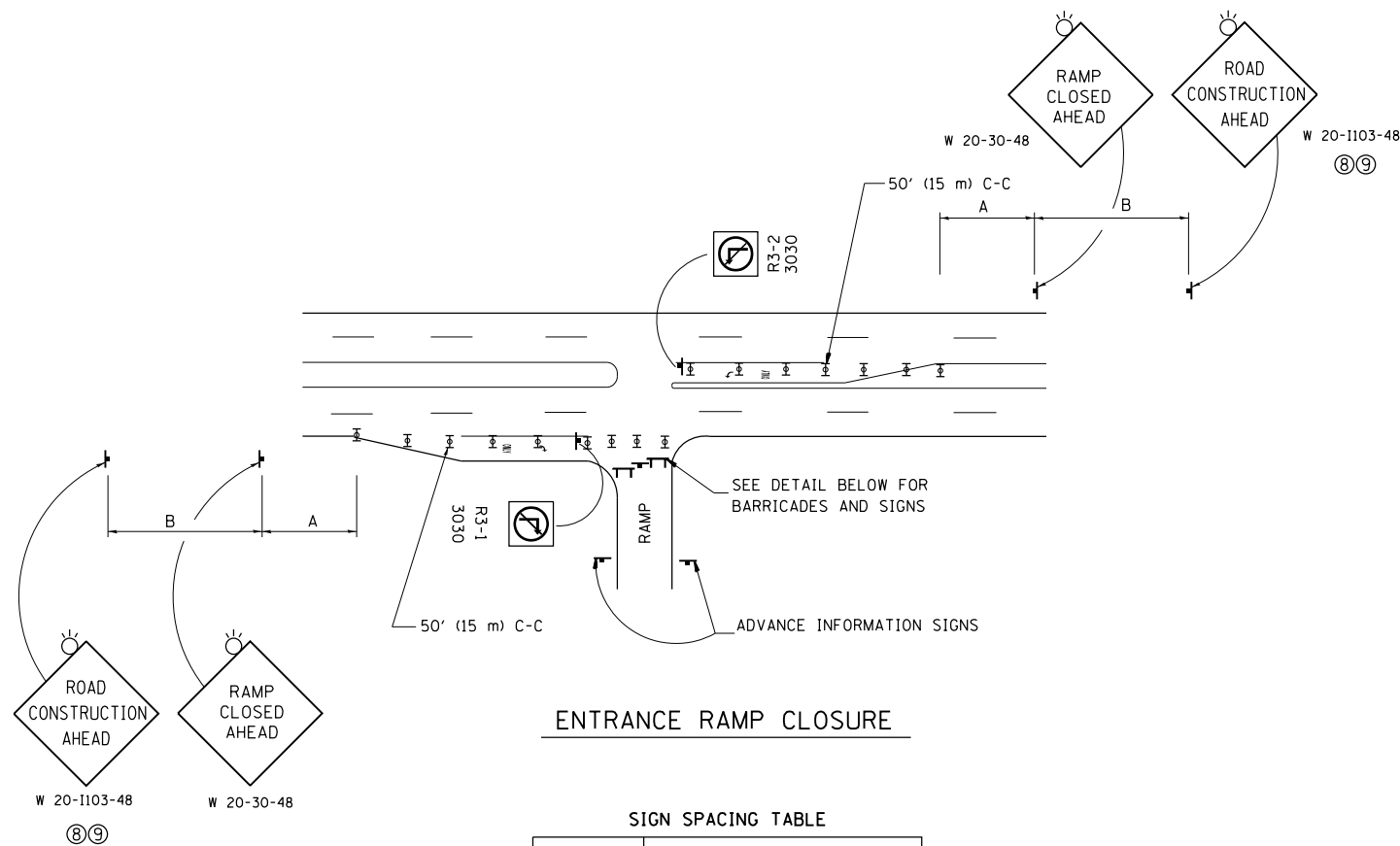
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Default	PLOT SCALE = 100.0009' / in.	CHECKED -	REVISED -
	PLOT DATE = 7/15/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LOCATION 25 (EB SN 016-0004 AND WB 016-0005)  
DETAILS**

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	77
			CONTRACT NO. 62B12	
ILLINOIS FED. AID PROJECT				

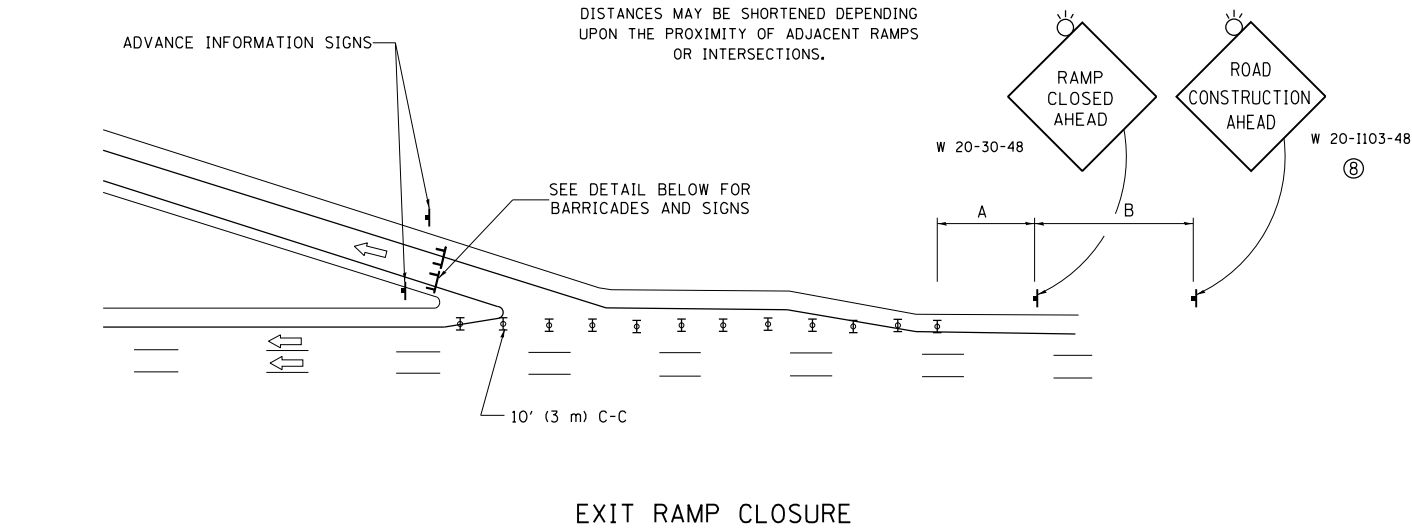


**ENTRANCE RAMP CLOSURE**

**SIGN SPACING TABLE**

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

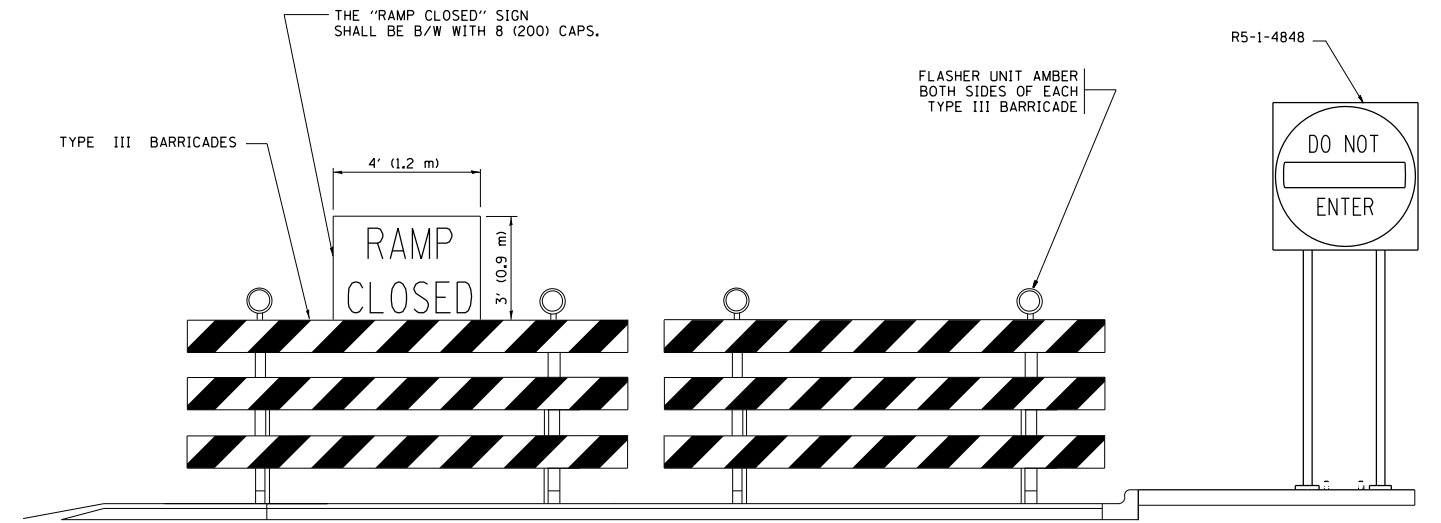
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



**EXIT RAMP CLOSURE**

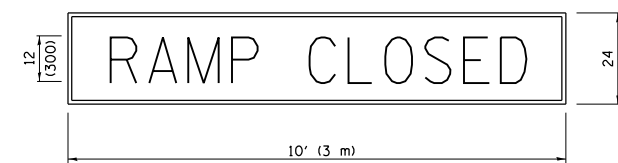
**SYMBOLS**

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



**DETAIL FOR REQUIRED BARRICADES & SIGNS**

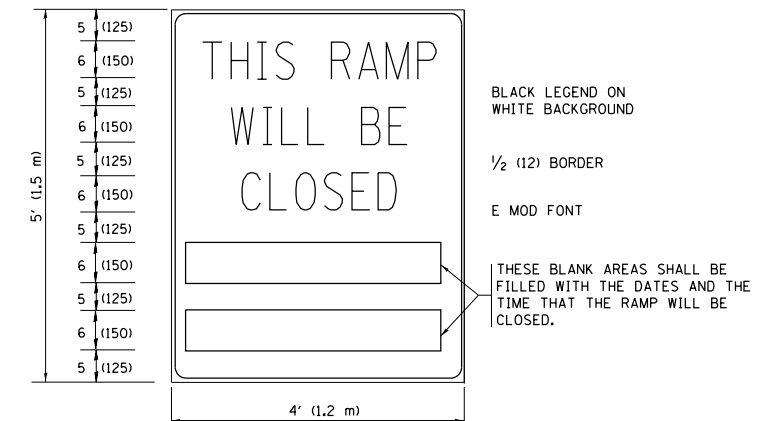
**RAMP CLOSURE ADVANCE WARNING SIGN**



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY  
E MOD FONT  
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

**RAMP CLOSURE ADVANCE INFORMATION SIGN**



BLACK LEGEND ON WHITE BACKGROUND  
1/2 (12) BORDER  
E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

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:**

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ 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.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ 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.
- ⑧ 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.
- ⑨ 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.

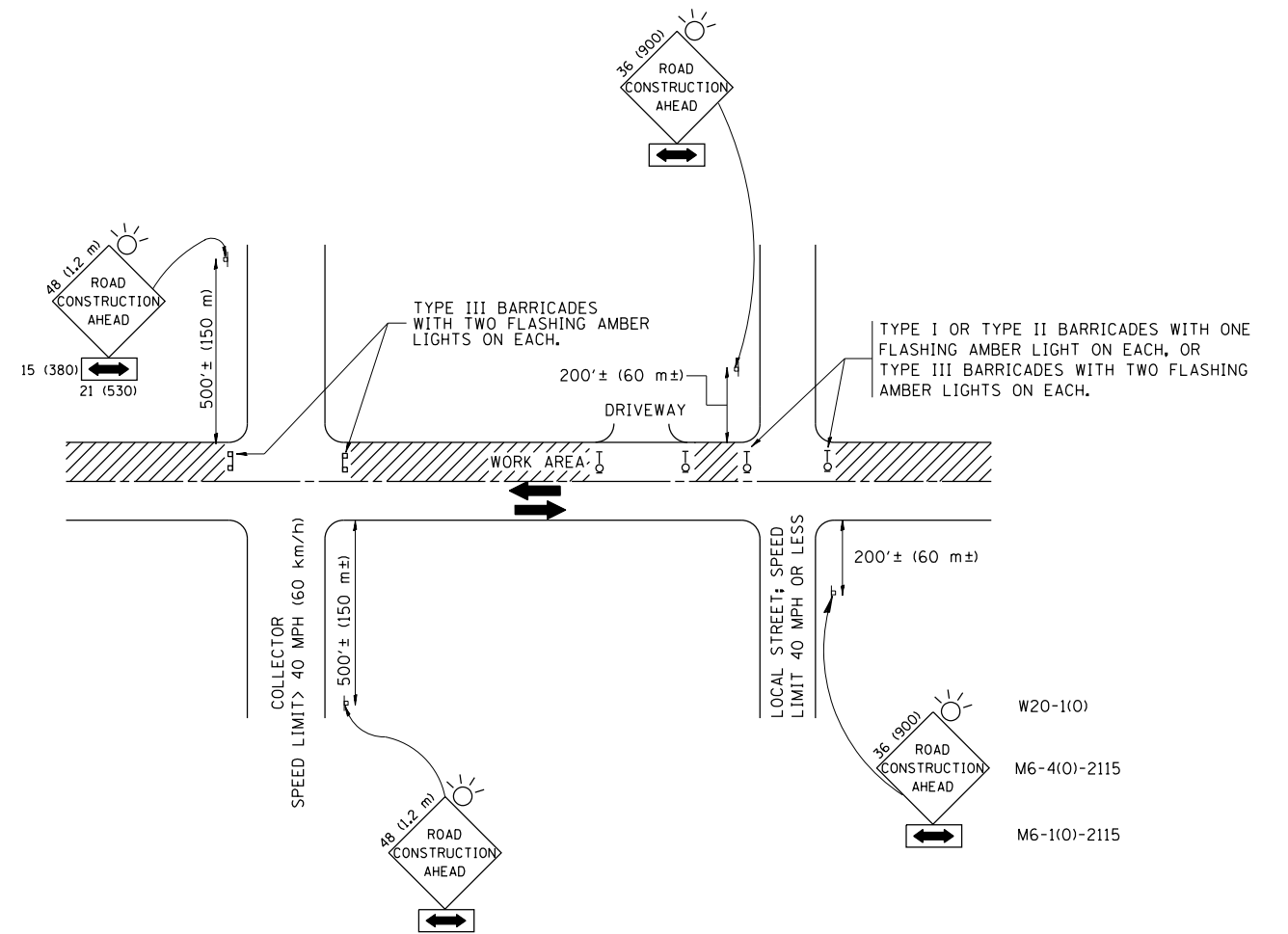
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		DATE - 02-83	REVISED - SPB 12-09
			REVISED - MD 06-13

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP  
CLOSURE DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	78
TC-08		CONTRACT NO. 62B12		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
  1. 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:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) 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.
  2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) 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.
    - b) 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.
  3. 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).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
 

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

  - C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
  - D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

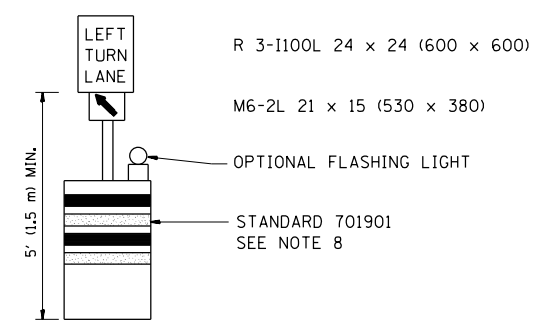
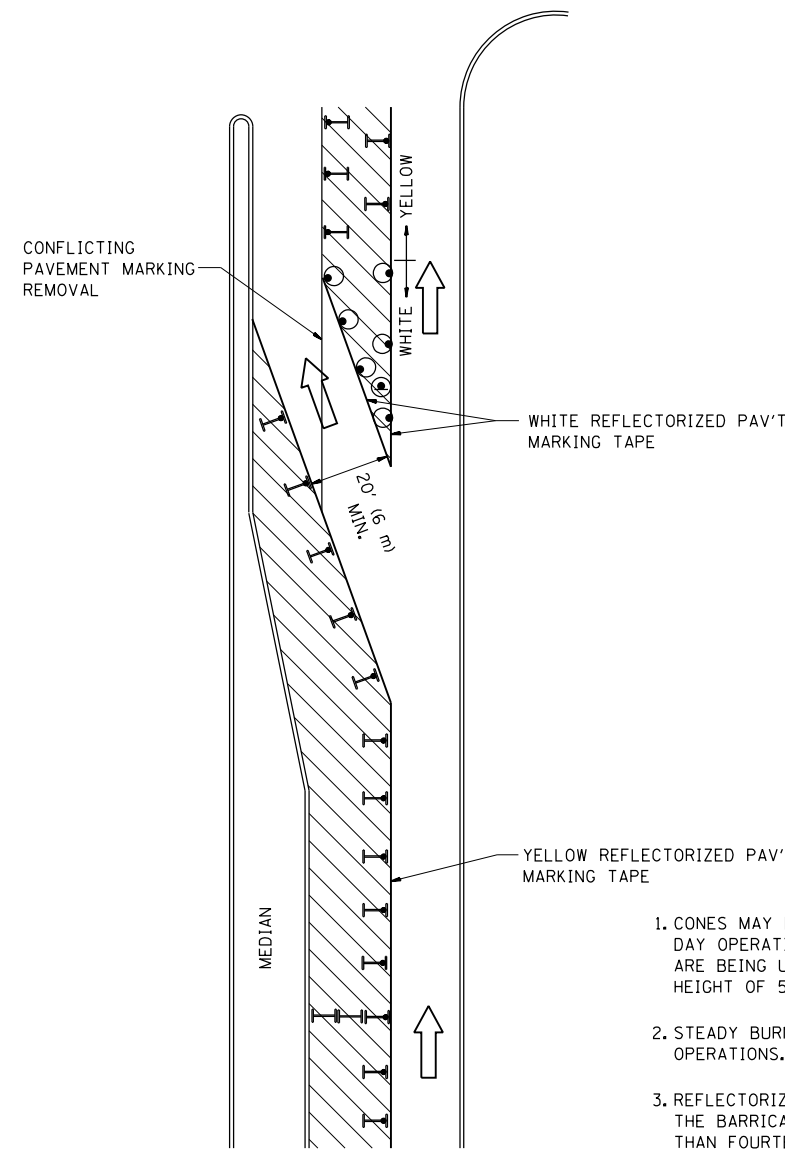
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 7/15/2015	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	79
TC-10		CONTRACT NO. 62B12		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				









**GENERAL NOTES**

1. 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 CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. 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" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

**LEGEND**

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = dahhr	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
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	PLOT SCALE = 100.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED -
	PLOT DATE = 7/15/2015	REVISED -T. RAMMACHER 01-06-00	REVISED -

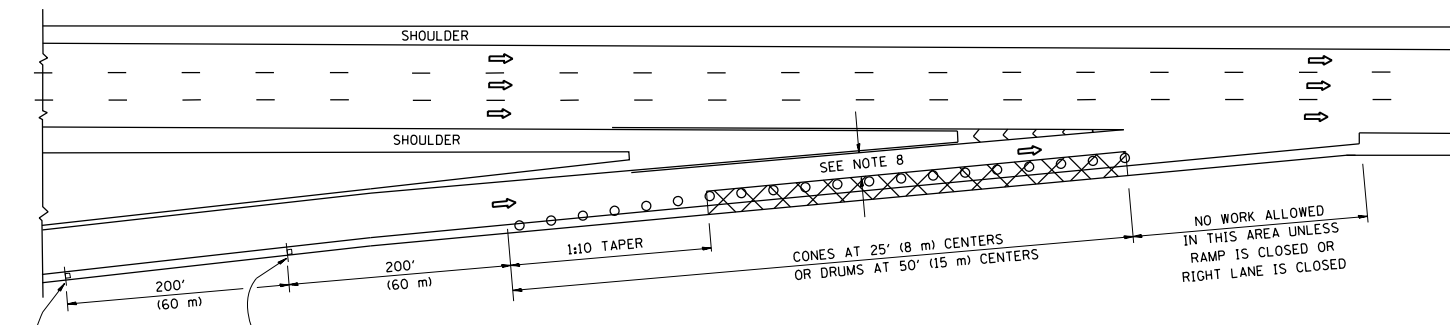
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

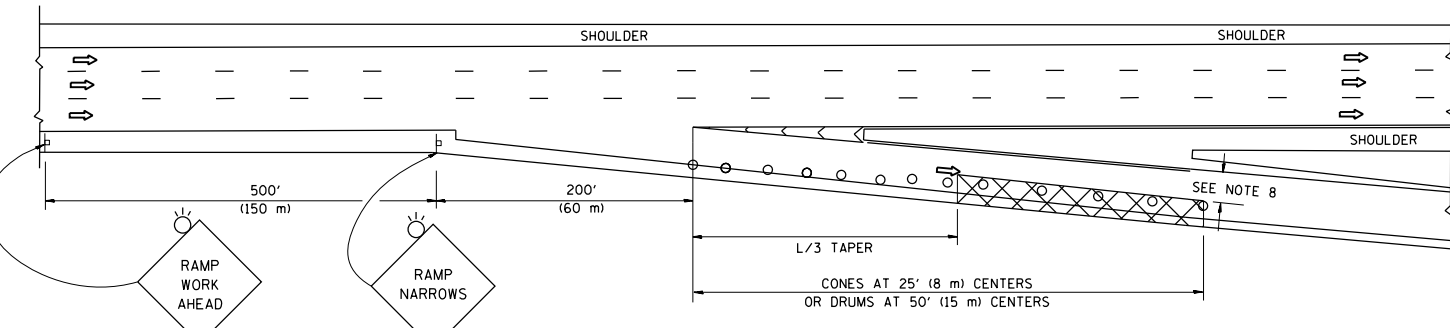
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	80
TC-14		CONTRACT NO. 62B12		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



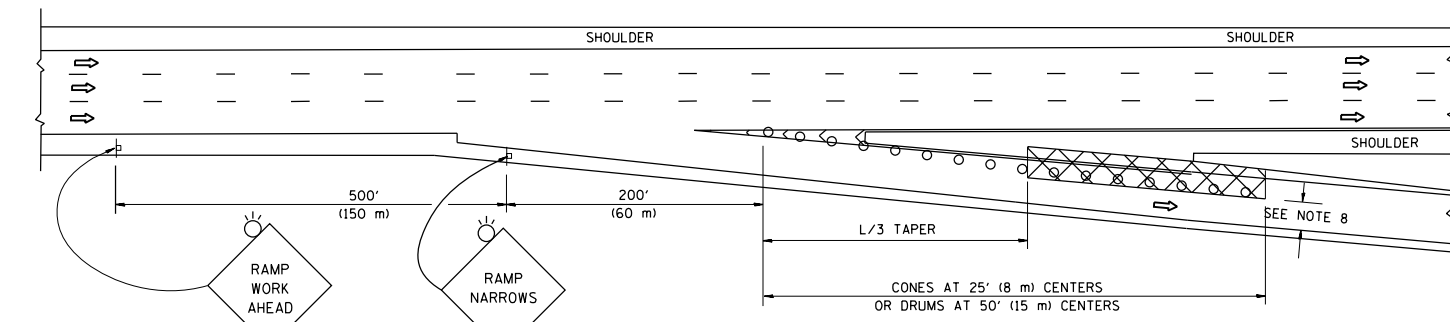
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

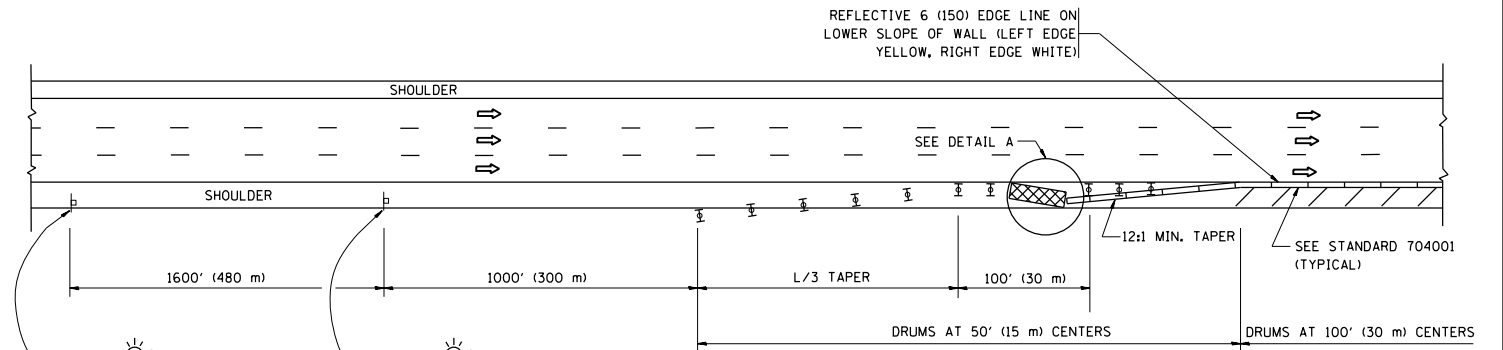
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

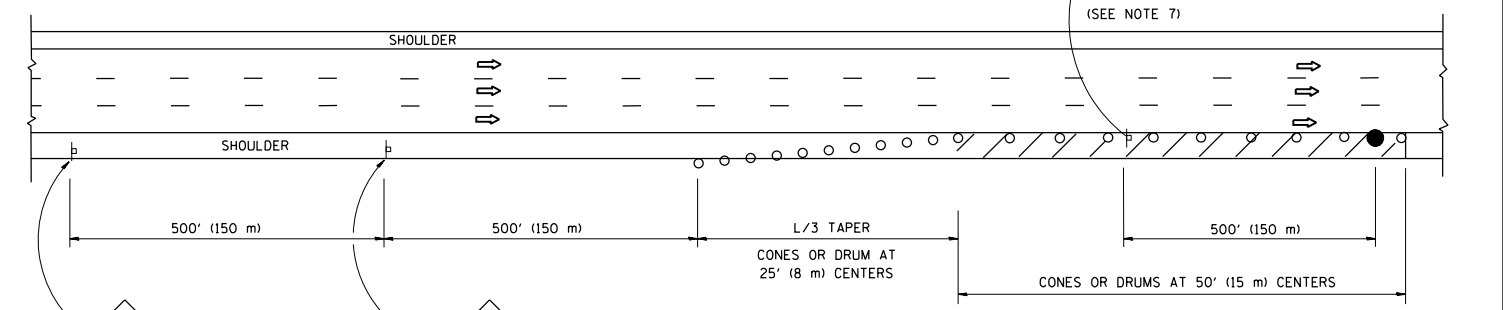
1. THE "L" DISTANCE EQUALS:  

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

SHOULDER CLOSURE DETAILS

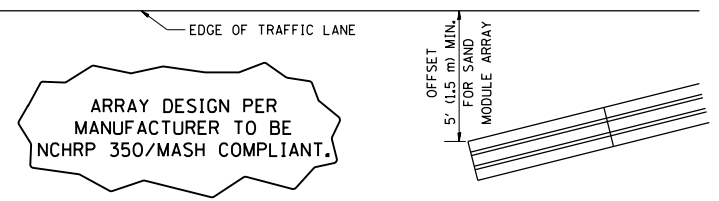


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:  
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH 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)

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.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
  - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
  - b. THE WORK AVTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION  
 16' MIN. WIDTH CURVE SECTION.

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

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		DATE - 11-96	REVISED - S.P.B. 12-09
			REVISED - M.D. 06-13

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY  
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	81
TC-17		CONTRACT NO. 62B12		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				