

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

VARIOUS ROUTES
VARIOUS LOCATIONS
SECTION 2015-046T
BRIDGE DRAINAGE SYSTEM REPAIRS
COOK COUNTY

C-91-387-15

P.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	1
ILLINOIS			CONTRACT NO. 62B12	

FOR INDEX OF SHEETS, SEE SHEET NO. 2



SEE LOCATION MAPS
SHEETS 6 - 9

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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

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

CONTRACT NO. 62B12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED July 1 20 15
John Furberman
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Aug 14 20 15
John D. Baranzelli P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Aug 14 20 15
Onor Osman P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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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 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, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 2. 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).
- 3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, CITY OF CHICAGO, AND THE VILLAGES OF HODGKINS AND BLUE ISLAND
- 4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 6. 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.
- 7. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE BRIDGE INSPECTORS.
- 8. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 9. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

STATE STANDARDS

- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701101-04 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF-ROAD OPERATIONS, MULTI LANE, MORE THAN 15' AWAY
- 701400-08 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-09 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
- 701428 TRAFFIC CONTROL, SETUP AND REMOVAL, 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 URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-09 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-05 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-04 TRAFFIC CONTROL DEVICES

FILE NAME : p:\11\0848\01\INTEG.dwg	USER NAME : dpharr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	VARIOUS STRUCTURE INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -		REVISED -	VAR.	2015-046T	COOK	81	2	CONTRACT NO. 62B12	
Default	PLOT DATE = 7/19/2015	DATE -	REVISED -	SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

DESCRIPTION	SCHEDULE														
	LOC. 1	LOC. 2	LOC. 3	LOC. 4	LOC. 5	LOC. 6	LOC. 7	LOC. 8	LOC. 9	LOC. 10	LOC. 11	LOC. 12	LOC. 13	LOC. 14	LOC. 15
	016-0119	016-0128	016-0130	016-0137	016-1110	016-1111	016-1112	016-1113	016-1047	016-1140	016-1116	016-1067	016-1118	016-1158	016-1160
TRAFFIC CONTROL AND PROTECTION, STANDARD 701101												x		x	x
TRAFFIC CONTROL AND PROTECTION, STANDARD 701106				x		x	x		x	x			x		
TRAFFIC CONTROL AND PROTECTION, STANDARD 701501					x			x			x				
TRAFFIC CONTROL AND PROTECTION, STANDARD 701601		x													
TRAFFIC CONTROL AND PROTECTION, STANDARD 701606			x												
TRAFFIC CONTROL AND PROTECTION, STANDARD 701611			x												
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701			x												
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801					x			x				x			
NIGHTTIME WORK ZONE LIGHTING	x										x		x	x	x
TRAFFIC CONTROL AND PROTECTION, (EXPRESSWAYS)	x										x		x	x	x
BRIDGE DRAINAGE SYSTEM REPAIRS	15	20	3	6	19	51	6	16	1	3	2	14	7	5	2
CLEANING DRAINAGE SYSTEM															
RAILROAD PROTECTIVE LIABILITY INSURANCE															

FILE NAME *	USER NAME *	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	REVISED -
PLOT DATE = 7/15/2015	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	4
CONTRACT NO. 62B12			ILLINOIS FED. AID PROJECT	

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)

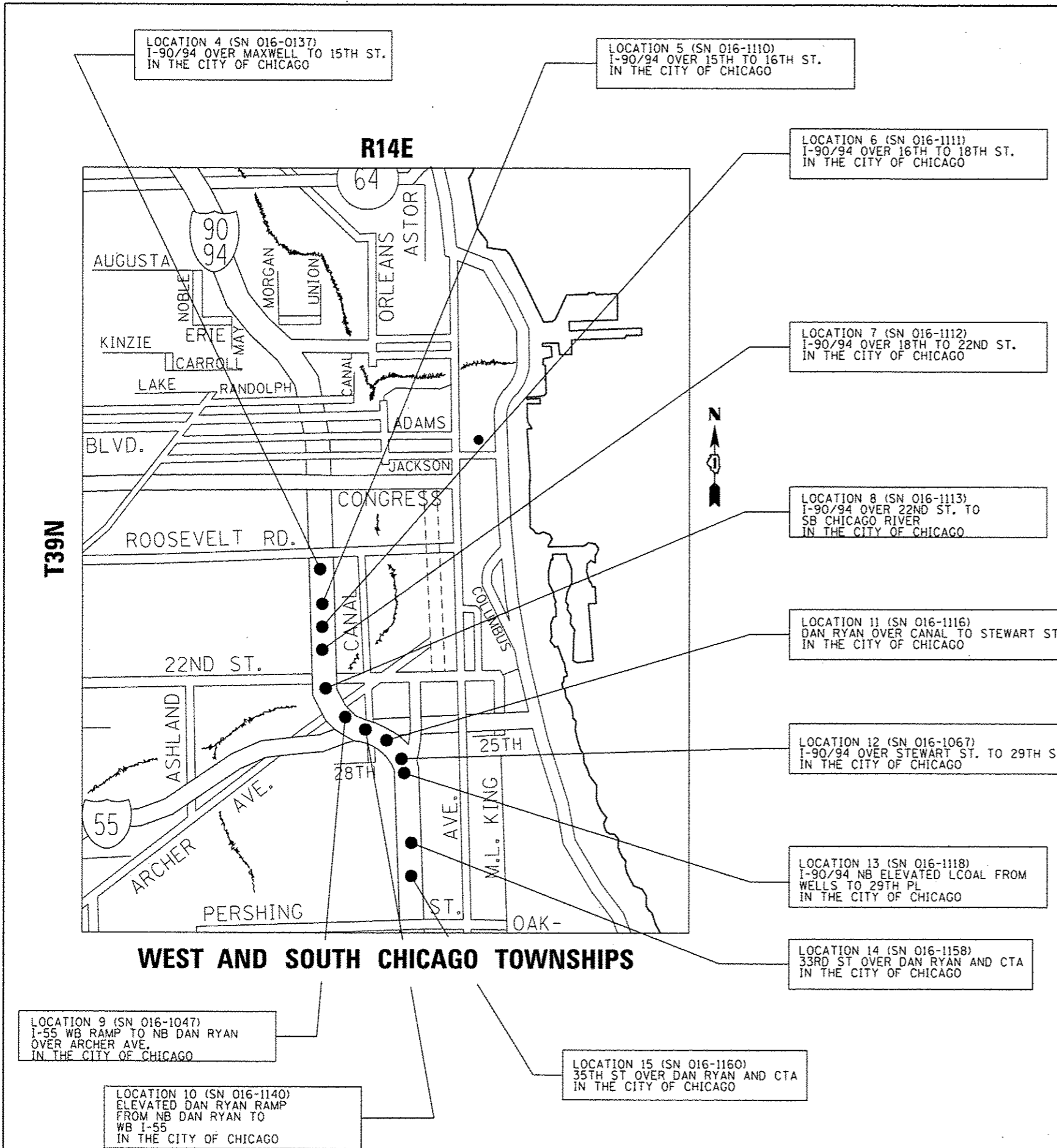
33RD ST:
2000 ADT = 9,000
POSTED SPEED LIMIT = 20 MPH

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

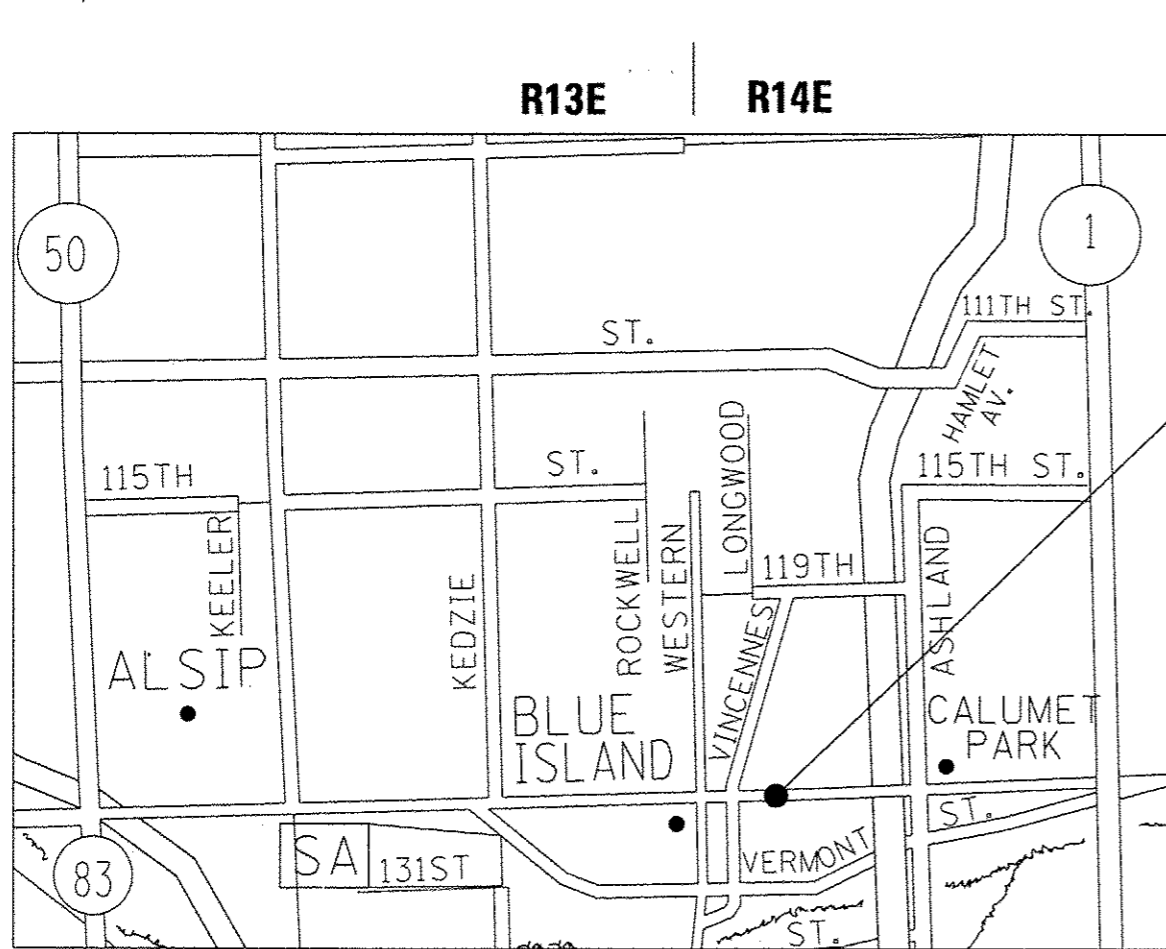
LOCATION 15 (SN 016-1160)

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

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



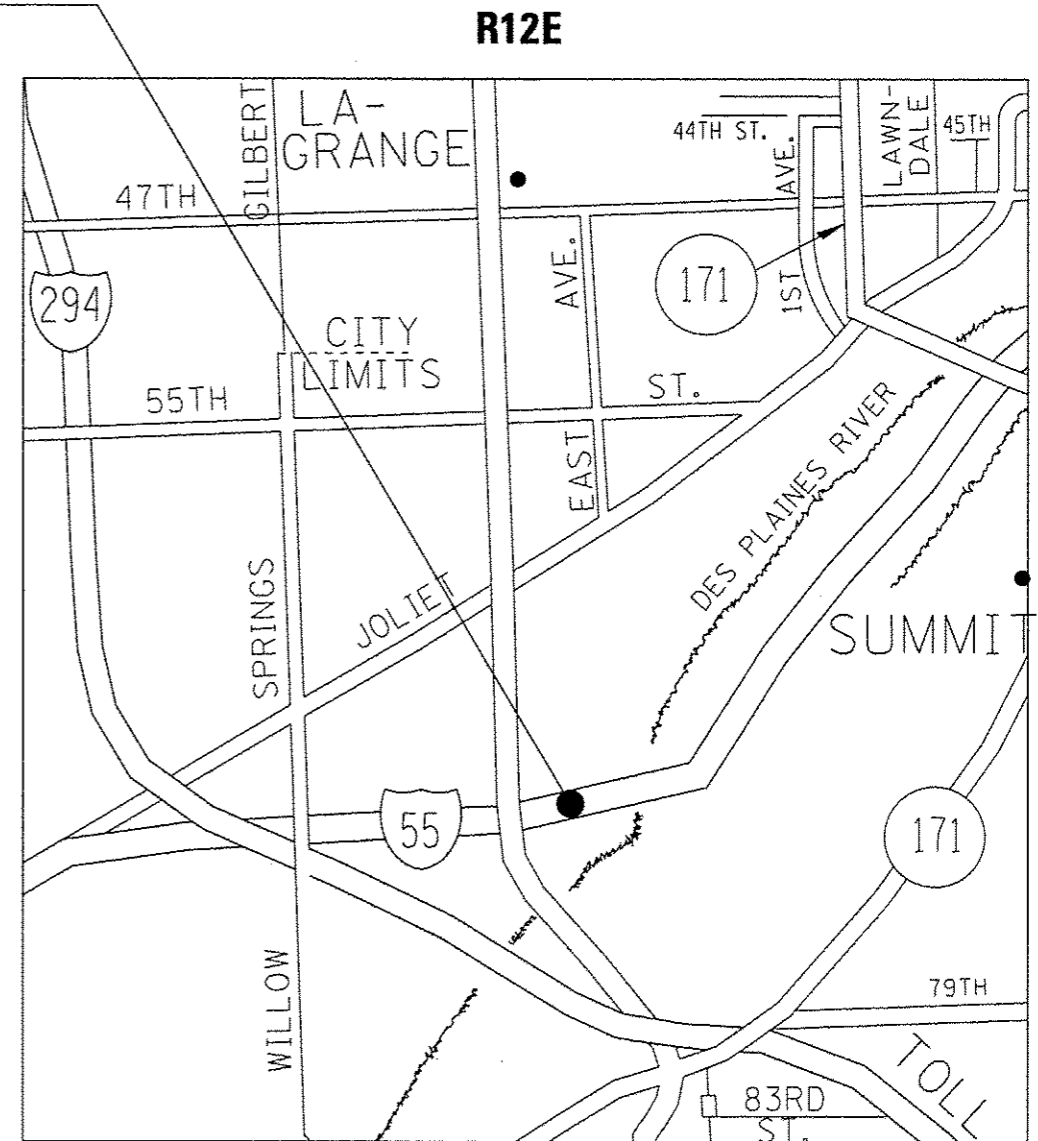
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Default		CHECKED -	REVISED -		VARIOUS	2015-046T	COOK	81	7		
		DATE -	REVISED -		SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT				
					CONTRACT NO. 62B12						



CALUMET TOWNSHIPS

LOCATION 25 (SN 016-0004 & SN 016-0005)
I-55 EB OVER RR
IN THE VILLAGE OF HODGKINS

LOCATION 24 (SN 016-0908)
127TH ST OVER RR
IN THE VILLAGE OF BLUE ISLAND



LYONS TOWNSHIPS

TRAFFIC DATA

LOCATION 24 (SN 016-0908)

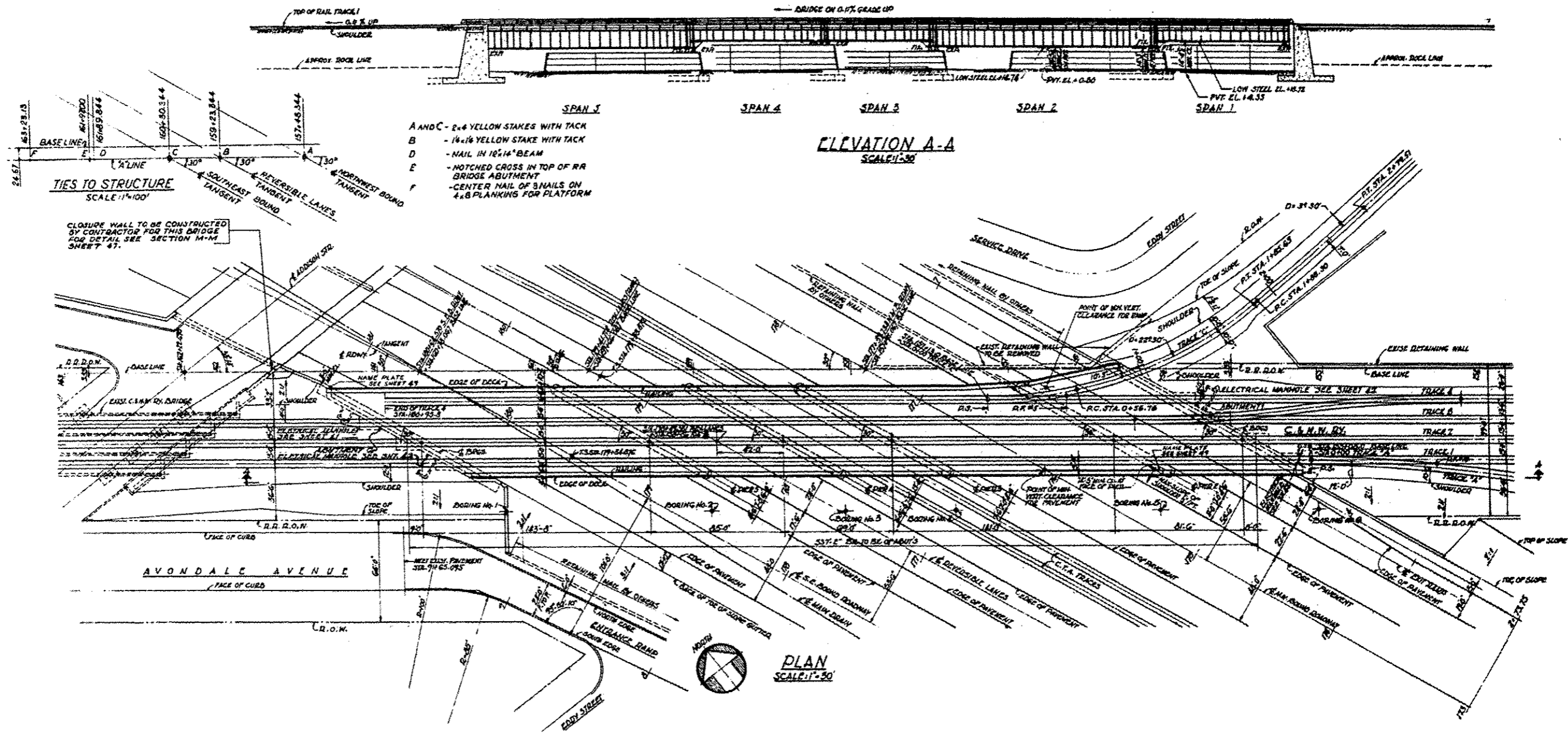
127TH ST:
2014 ADT = 27,300
POSTED SPEED LIMIT = 30 MPH

TRAFFIC DATA

LOCATION 25 (SN 016-0004 & 016-0005)

I-55 STEVENSON EB:
2014 ADT = 64,500
POSTED SPEED LIMIT = -- MPH

FILE NAME :	USER NAME : dchane	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION MAP LOCATIONS 24 AND 25		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Documents\1007 Offices\District 1\Projects\01387\Drawings\Design\0138715-sht-LOCATION 24	CHECKED -	REVISED -		SCALE:	SHEET 4	OF 4 SHEETS	VARIOUS	2015-046T	COOK	81	9
	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		STA.	TO STA.	CONTRACT NO. 62B12		ILLINOIS FED. AID PROJECT			



TOTAL BILL OF MATERIAL (S.N. 016-0119)
UPRR OVER I-90/94

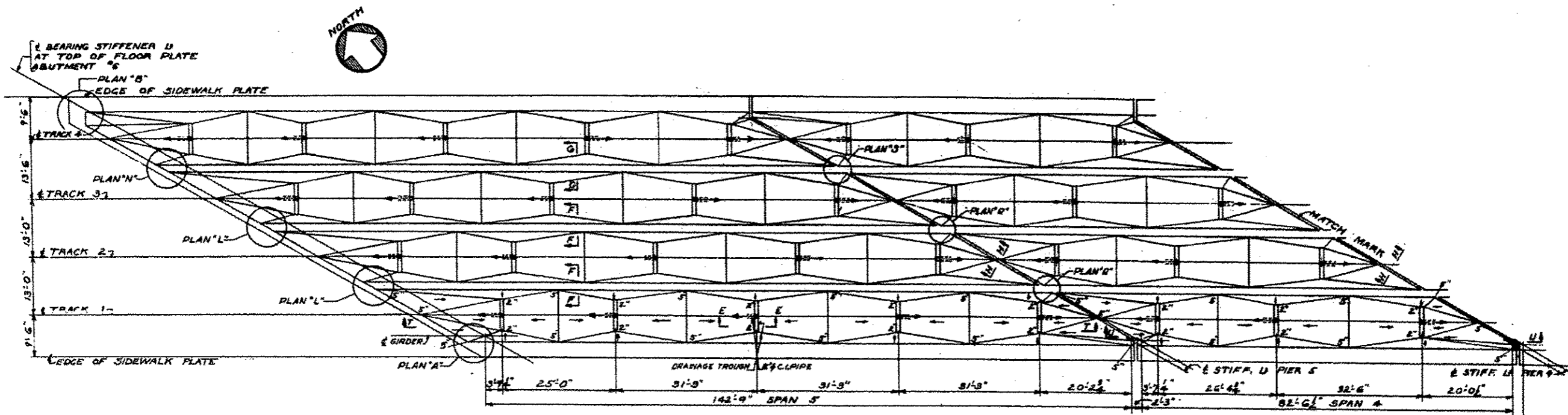
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	15

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

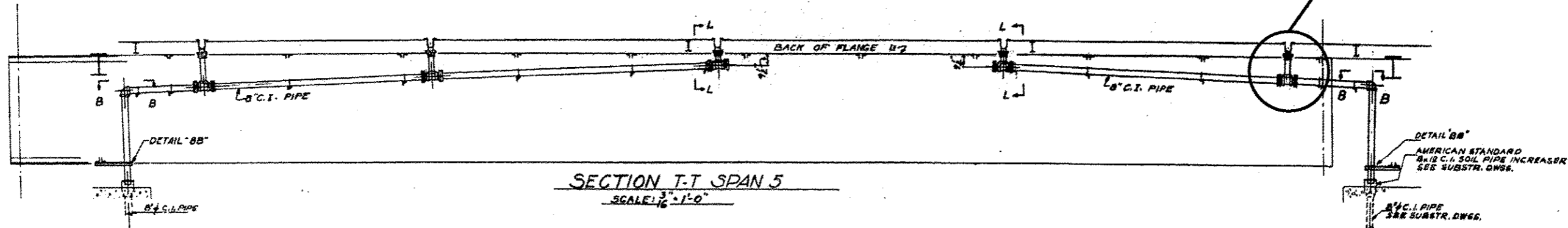
LOCATION 1 (SN 016-0119)
GENERAL PLAN AND ELEVATION
SHEET NO. 1 OF 3 SHEETS

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

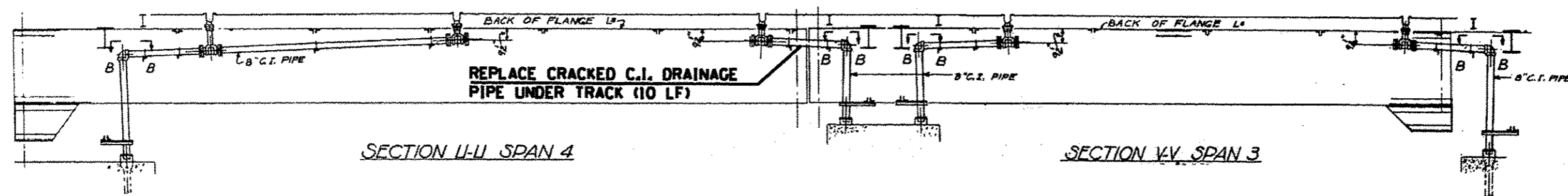


PARTIAL PLAN

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



SECTION T-T SPAN 5
SCALE: 3/8" = 1'-0"



SECTION U-U SPAN 4

SECTION V-V SPAN 3

DRAINAGE DETAILS

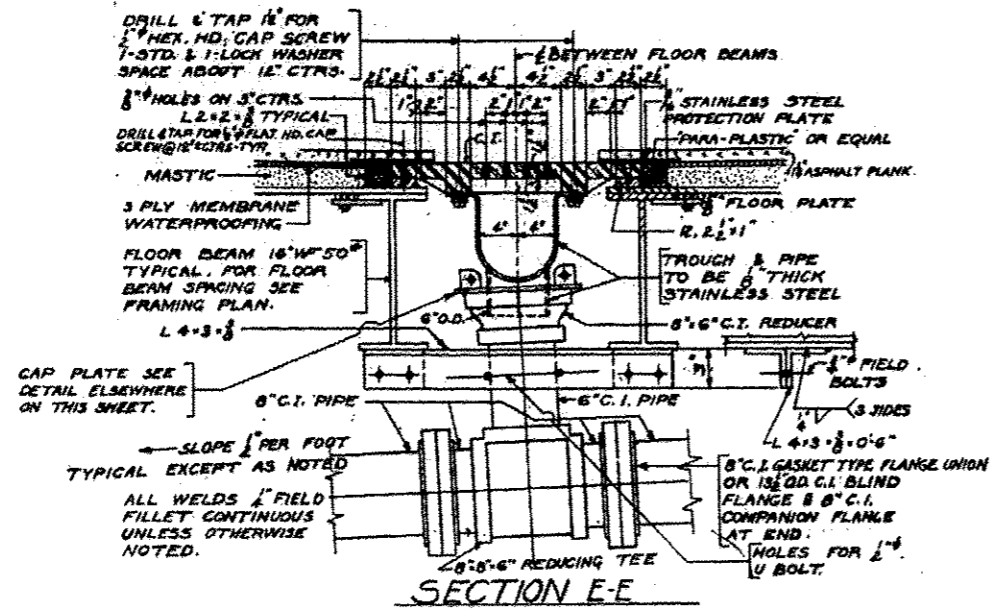
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CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN -	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

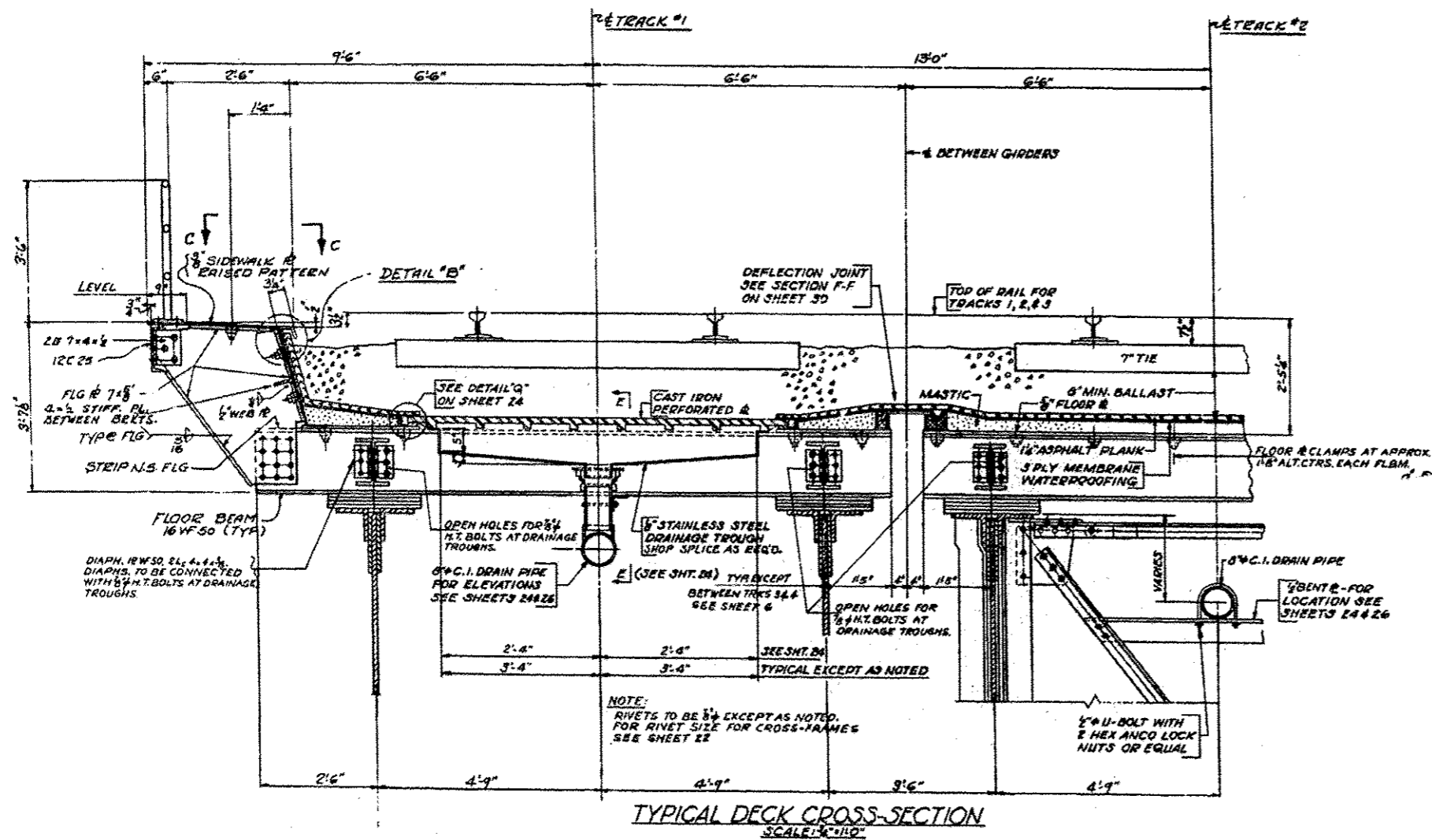
LOCATION 1 (SN 016-0119)
PARTIAL PLAN AND DRAINAGE DETAILS

SHEET NO. 2 OF 3 SHEETS

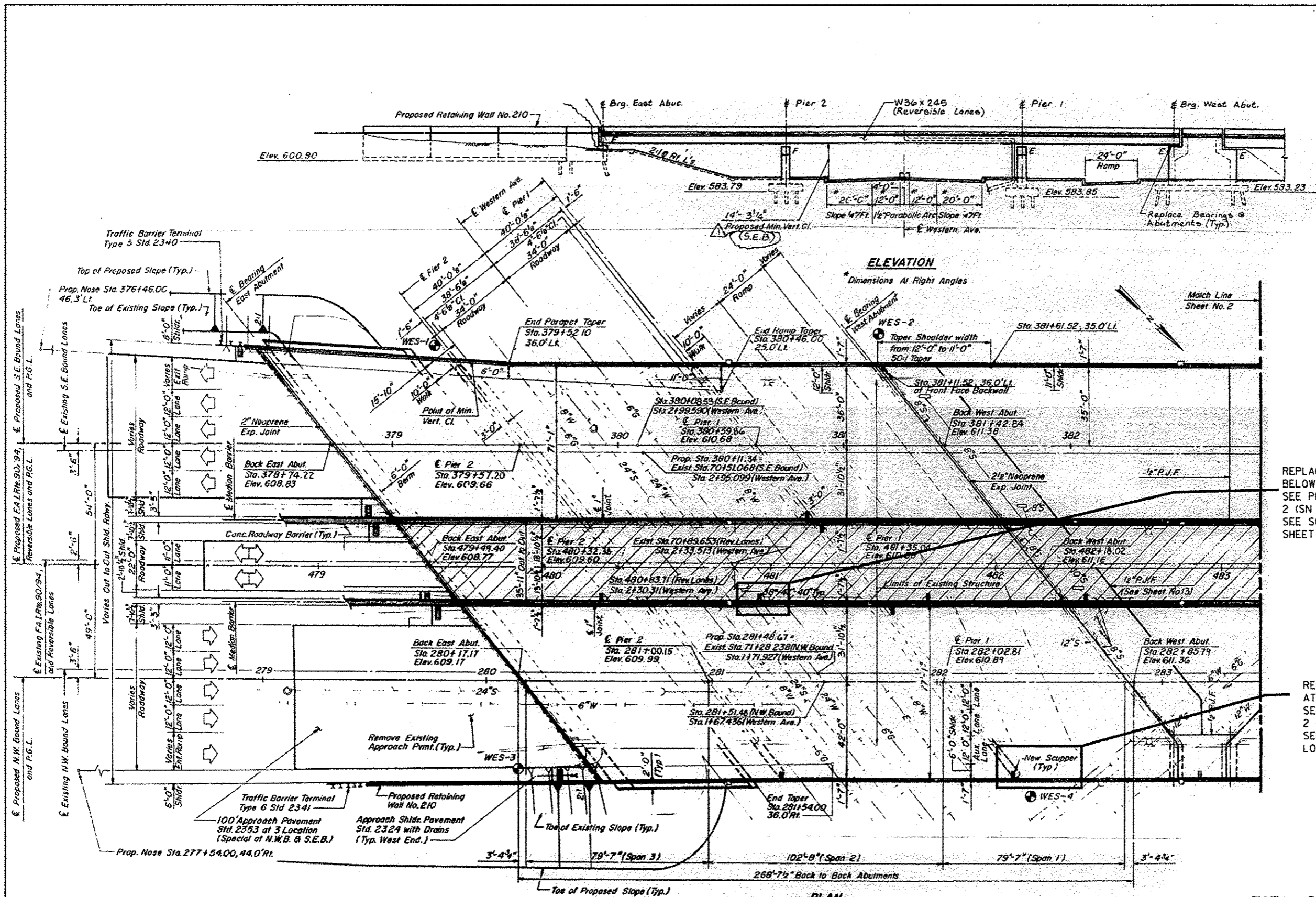
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	11
CONTRACT NO. 62B12				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY



DESIGNED -	EXAMINED -	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 1 (SN 016-0119)		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED -	ENGINEER OF STRUCTURAL SERVICES			STRUCTURE SECTIONS		VAR.	2015-046T	COOK	81	12	
DRAWN -	PASSED -	REVISED -		SHEET NO. 3 OF 3 SHEETS		CONTRACT NO. 62B12					
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		ILLINOIS FED. AID PROJECT							



ELEVATION
Dimensions At Right Angles

PLAN

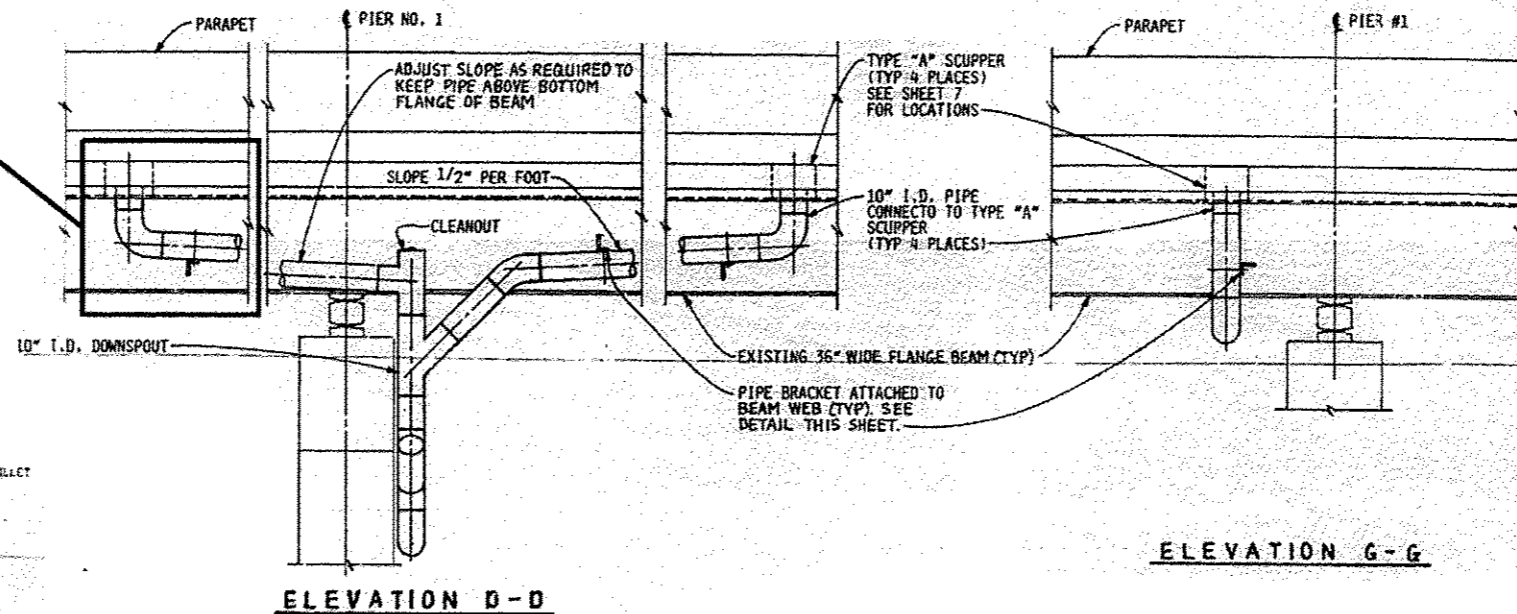
REPLACE DAMAGED/MISSING DRAINAGE PIPE BELOW SCUPPER (15 LF)
SEE PHOTO 1 ON SHEET 3 OF 3 OF LOCATION 2 (SN 016-0128) SHEETS
SEE SCUPPER AND DRAINAGE DETAILS ON SHEET 2 OF 3 OF LOCATION 2 (SN 016-0128)

REPLACE DAMAGED/MISSING DRAINAGE PIPE AT PIER 1 (5 LF)
SEE PHOTO 2 ON SHEET 3 OF 3 OF LOCATION 2 (SN 016-0128) SHEETS
SEE DRAINAGE DETAILS ON SHEET 3 OF 3 OF LOCATION 2 (SN 016-0128)

TOTAL BILL OF MATERIAL (S.N. 016-0128)
I-90/94 OVER WESTERN AVE.

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	20

LOCATION OF DRAINAGE REPAIR

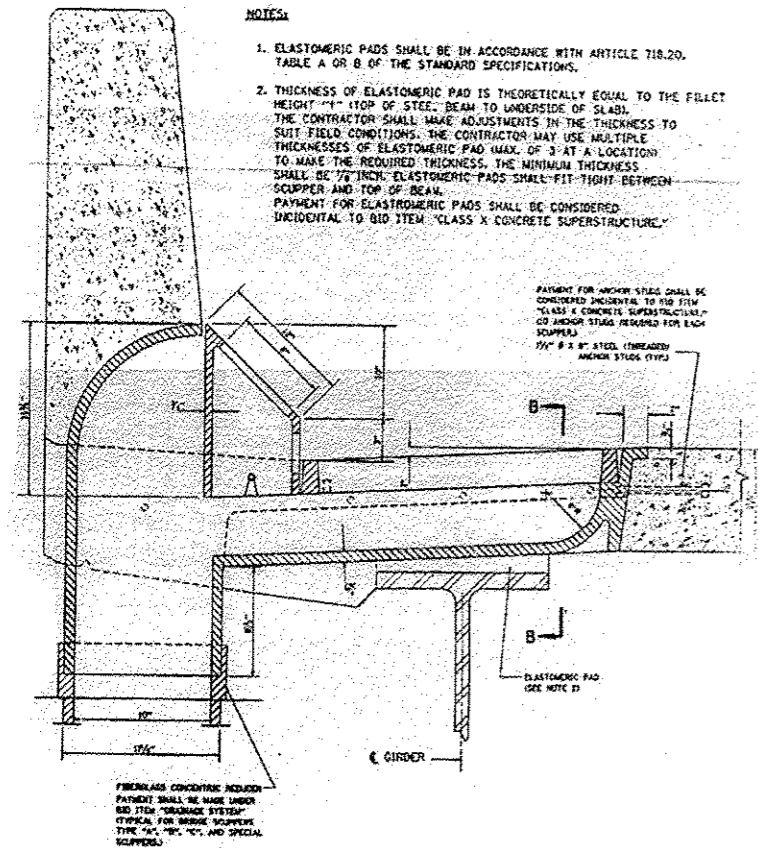


ELEVATION D-D

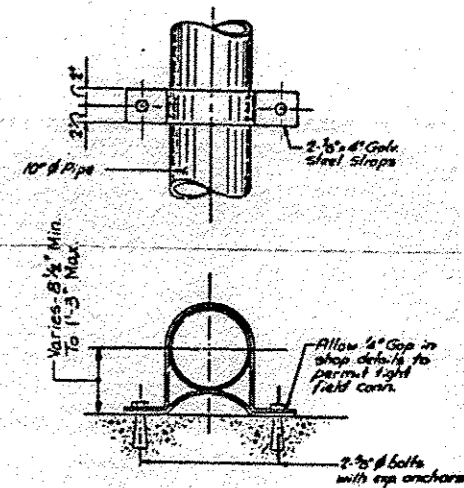
ELEVATION G-G

NOTES:

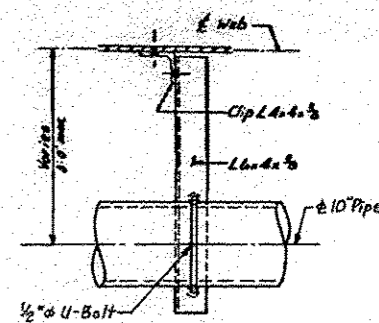
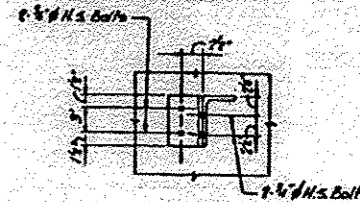
1. ELASTOMERIC PADS SHALL BE IN ACCORDANCE WITH ARTICLE 718.20, TABLE A OR B OF THE STANDARD SPECIFICATIONS.
2. THICKNESS OF ELASTOMERIC PAD IS THEORETICALLY EQUAL TO THE FILLET HEIGHT "H" (TOP OF STEEL BEAM TO UNDERSIDE OF SLAB). THE CONTRACTOR SHALL MAKE ADJUSTMENTS IN THE THICKNESS TO SUIT FIELD CONDITIONS. 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 7/8" INCH. ELASTOMERIC PADS SHALL FIT TIGHT BETWEEN SCUPPER AND TOP OF BEAM. PAYMENT FOR ELASTOMERIC PADS SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "CLASS X CONCRETE SUPERSTRUCTURE".



SCUPPER DETAIL

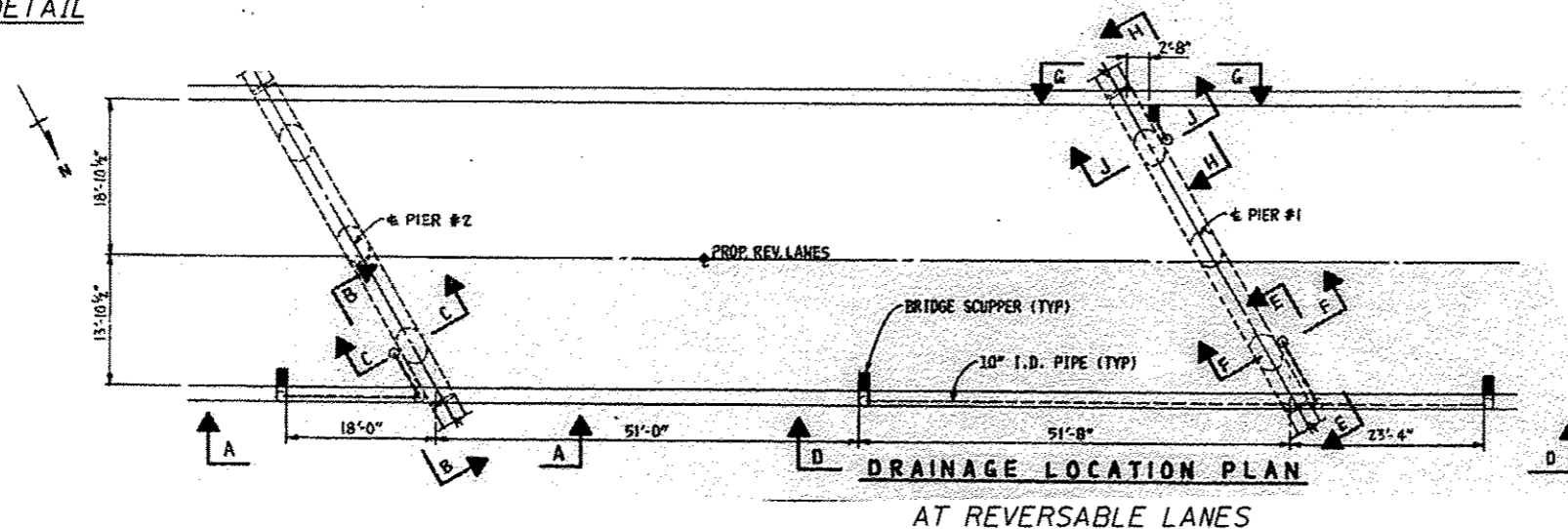


PIPE BRACKET DETAIL (TO CONCRETE)



PIPE BRACKET DETAIL (TO BEAM WEB)

Note: Space Pipe Support Brackets as recommended by pipe manufacturer



DRAINAGE LOCATION PLAN AT REVERSABLE LANES

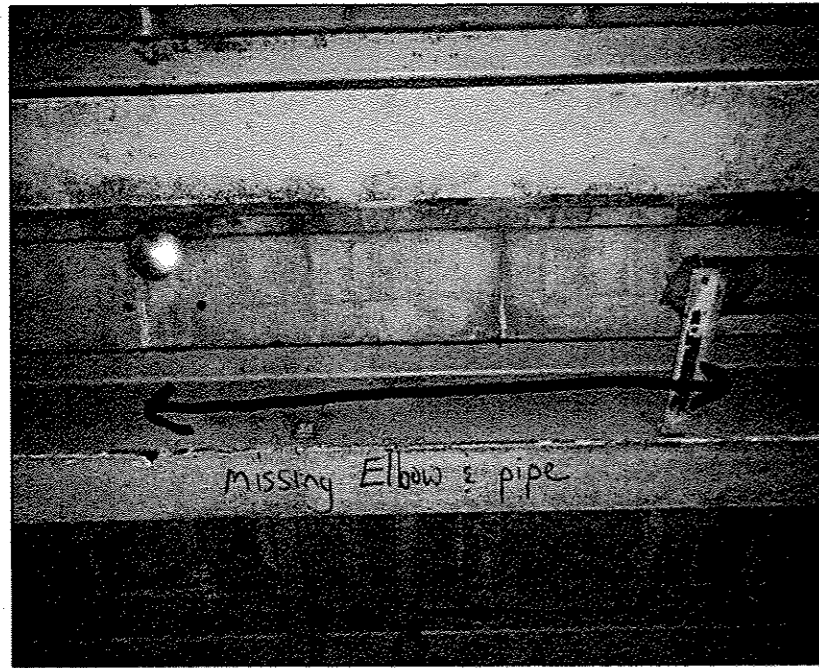
DESIGNED -	EXAMINED	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN -	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

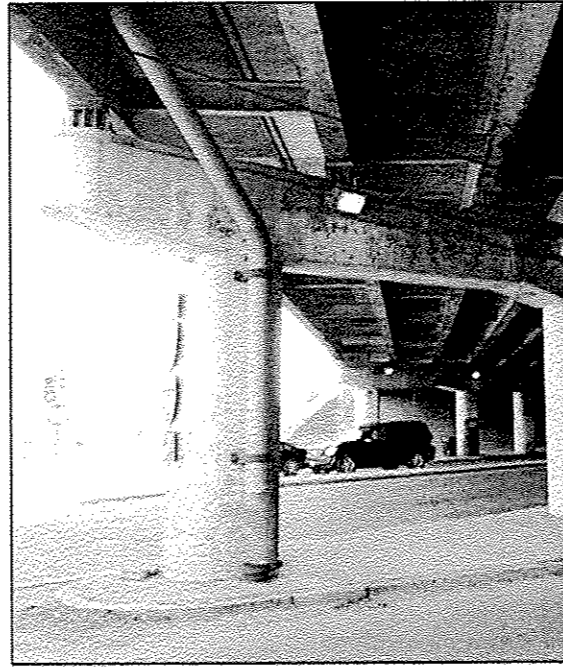
**LOCATION 2 (SN 016-0128)
REVERSIBLE LANES DRAINAGE DETAILS**

SHEET NO. 2 OF 3 SHEETS

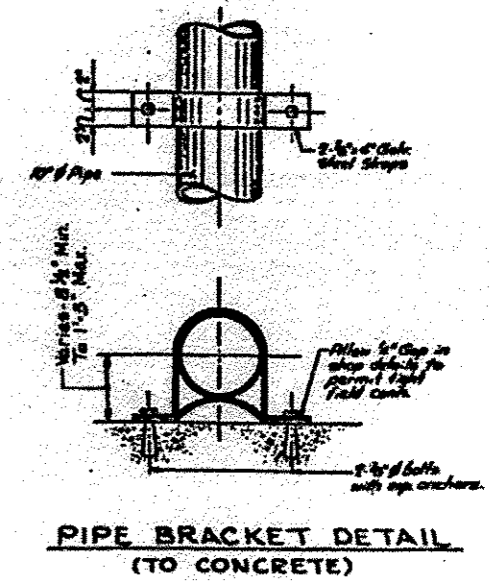
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-0467	COOK	81	14
			CONTRACT NO. 62B12	
ILLINOIS FED. AID PROJECT				



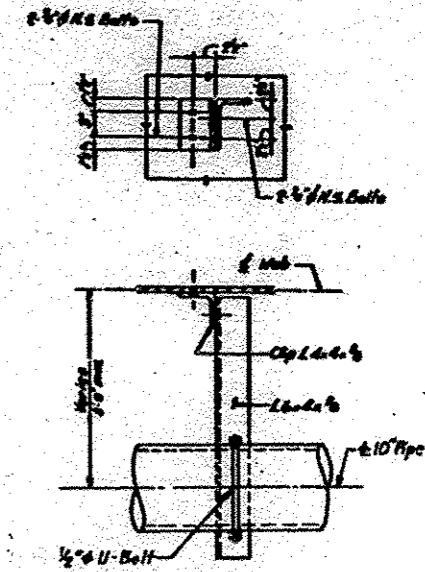
016-0128 PHOTO #1
MISSING DRAINAGE PIPE SECTION



016-0128 PHOTO #2
PIER 1 - MISSING DRAINAGE PIPE SECTION

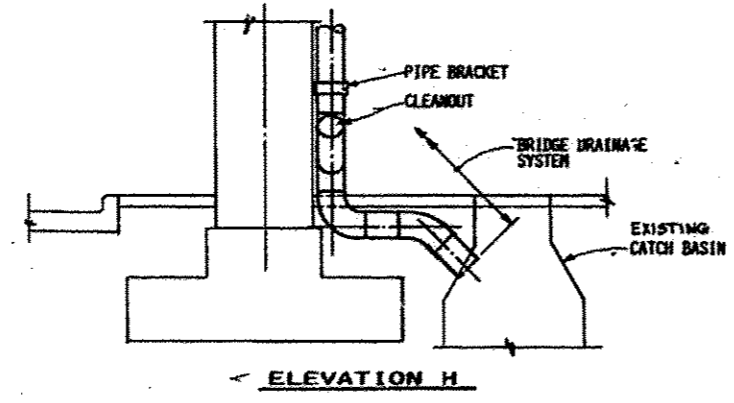


PIPE BRACKET DETAIL
(TO CONCRETE)

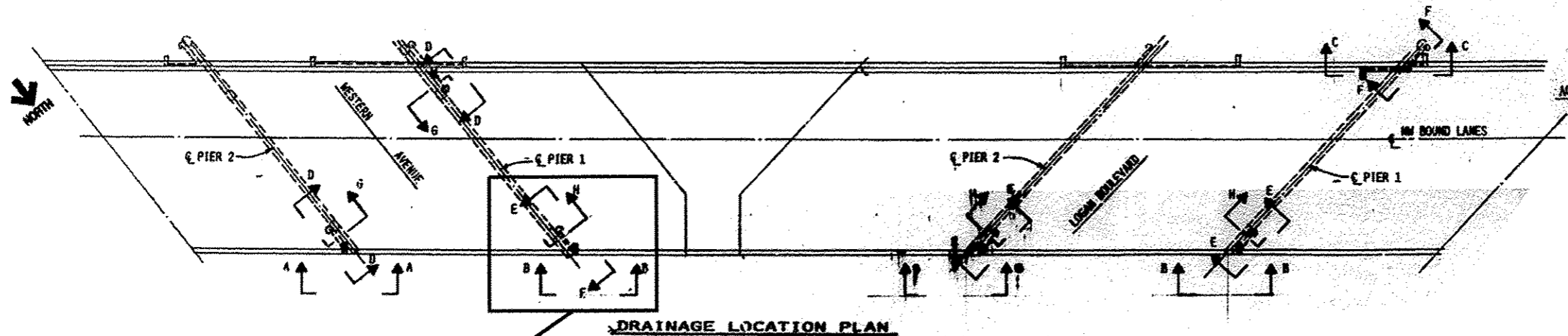


PIPE BRACKET DETAIL
(TO BEAM WEB)

Note: Space Pipe Support Brackets as recommended by pipe manufacturer



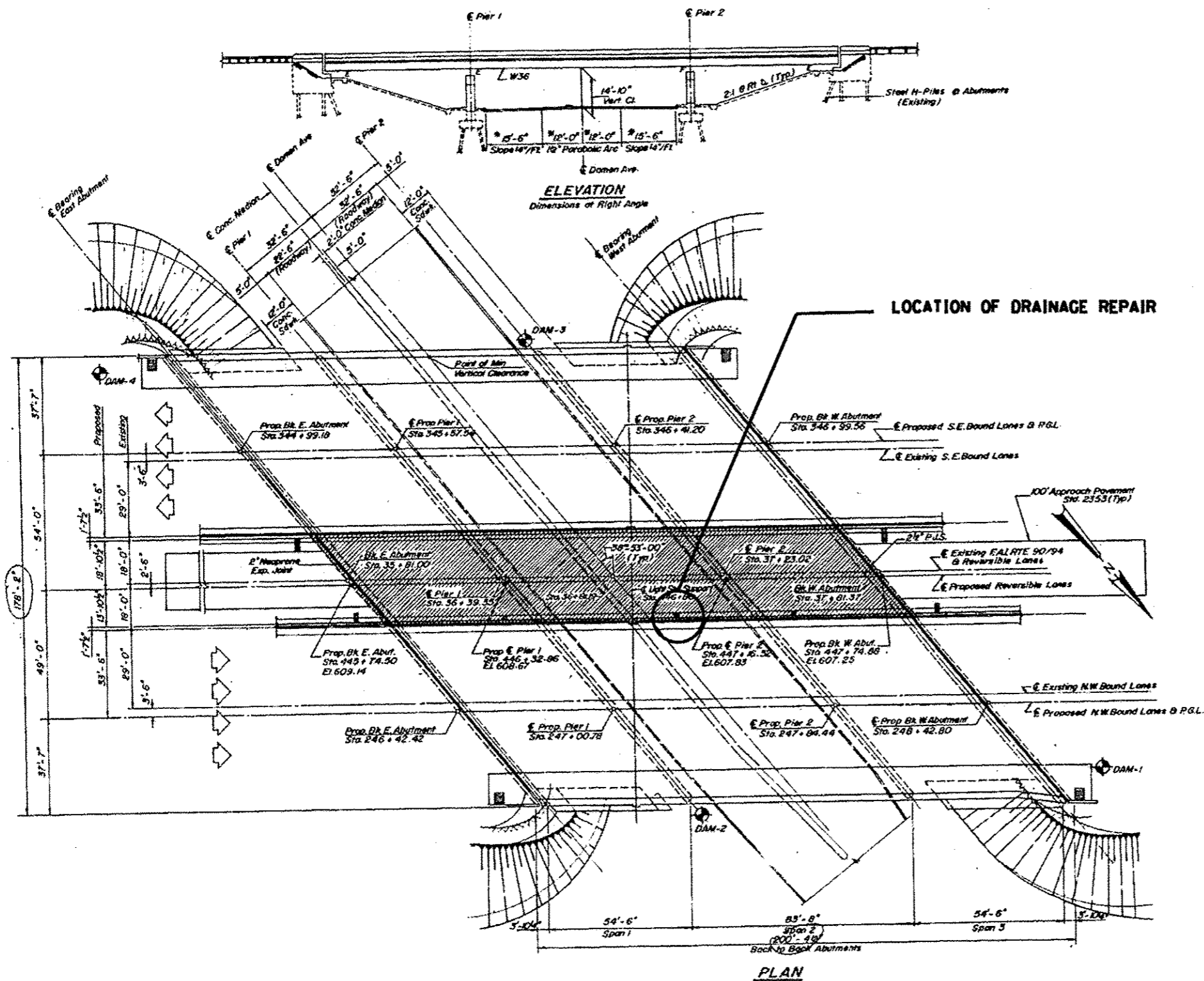
ELEVATION H



DRAINAGE LOCATION PLAN

LOCATION OF DRAINAGE REPAIR AT N.W. BOUND LANES

DESIGNED -	EXAMINED -	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 2 (SN 016-0128) N.W. BOUND LANES DRAINAGE DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	REVISED			VAR.	2015-046T	COOK	81	15	
DRAWN -	PASSED -	ENGINEER OF BRIDGES AND STRUCTURES			REVISED	CONTRACT NO. 62B12				
CHECKED -						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

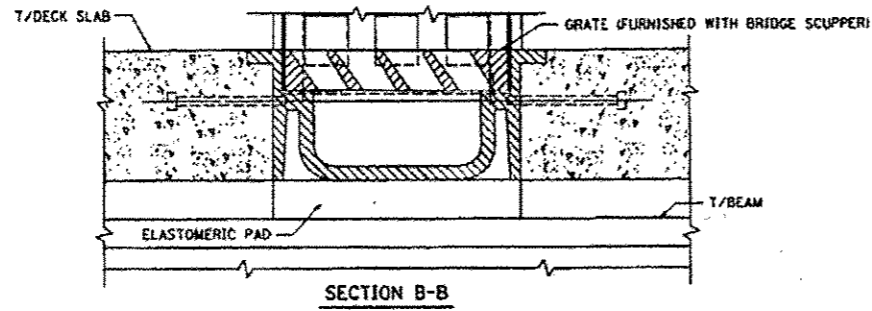
DESIGNED -	EXAMINED	DATE
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN -	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SHEET NO. 1 OF 3 SHEETS

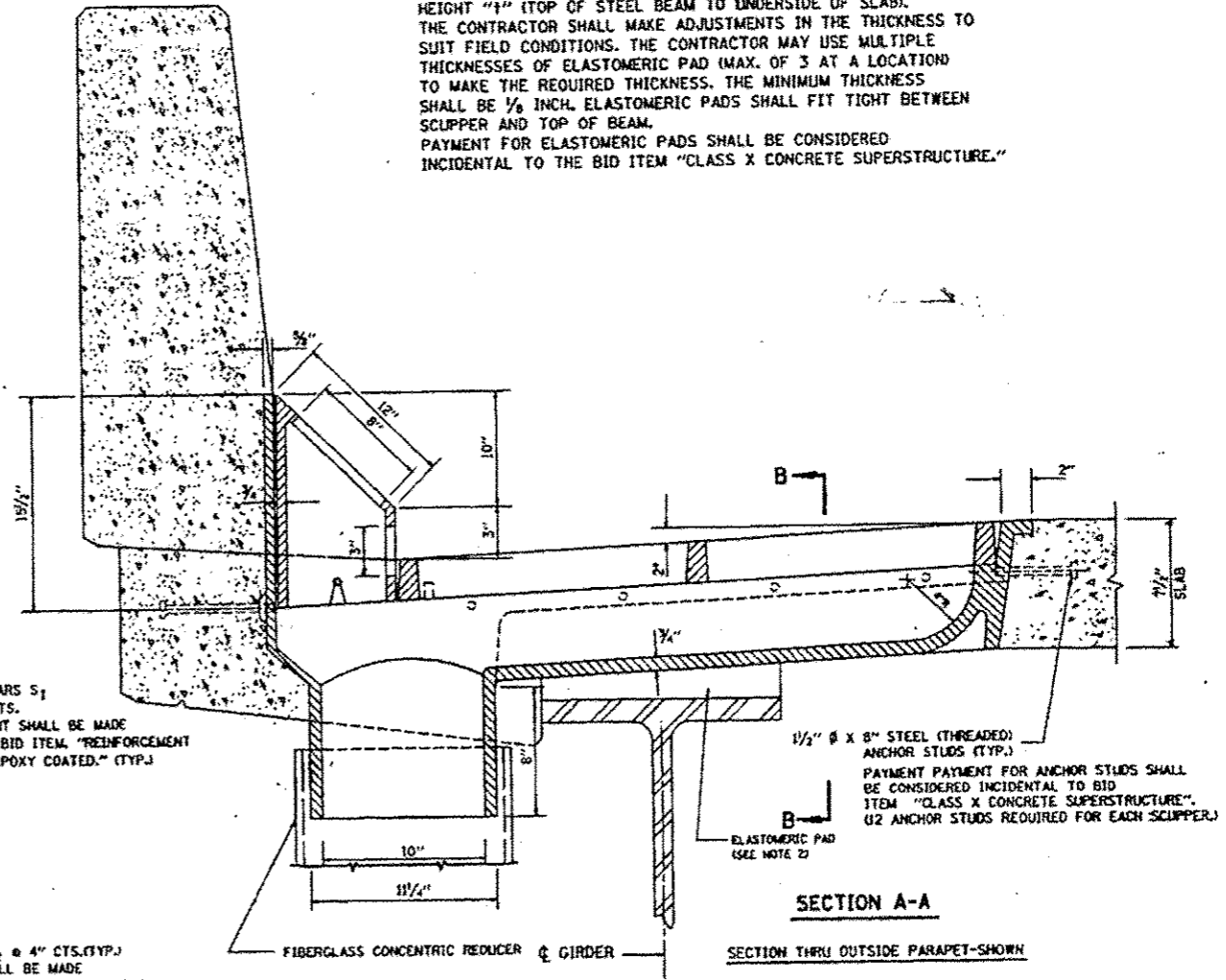
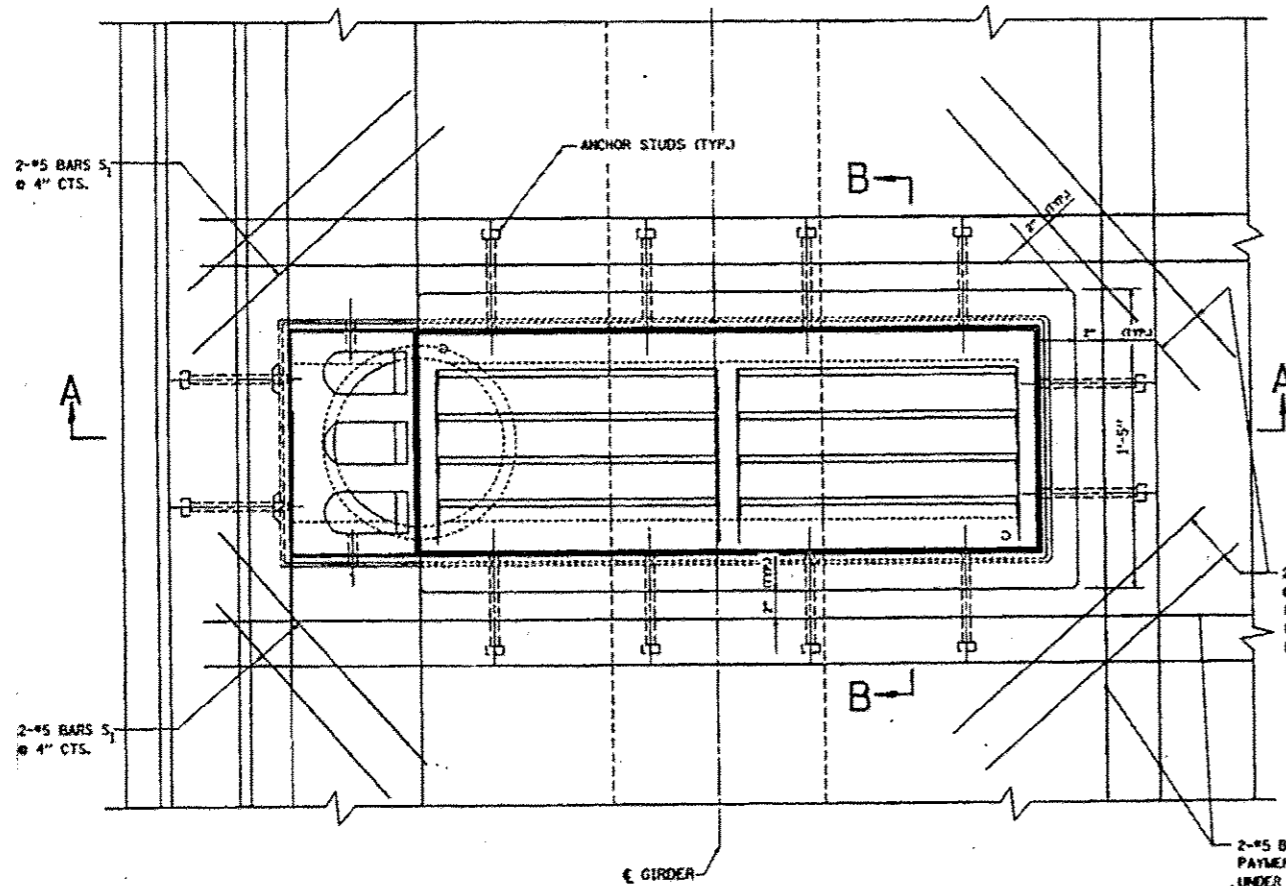
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	16
CONTRACT NO. 62B12			ILLINOIS FED. AID PROJECT	



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

NOTES:

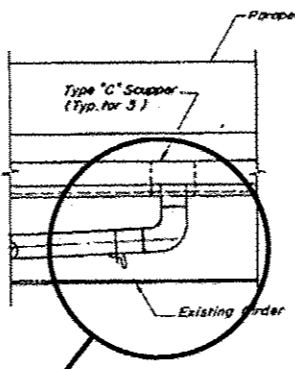
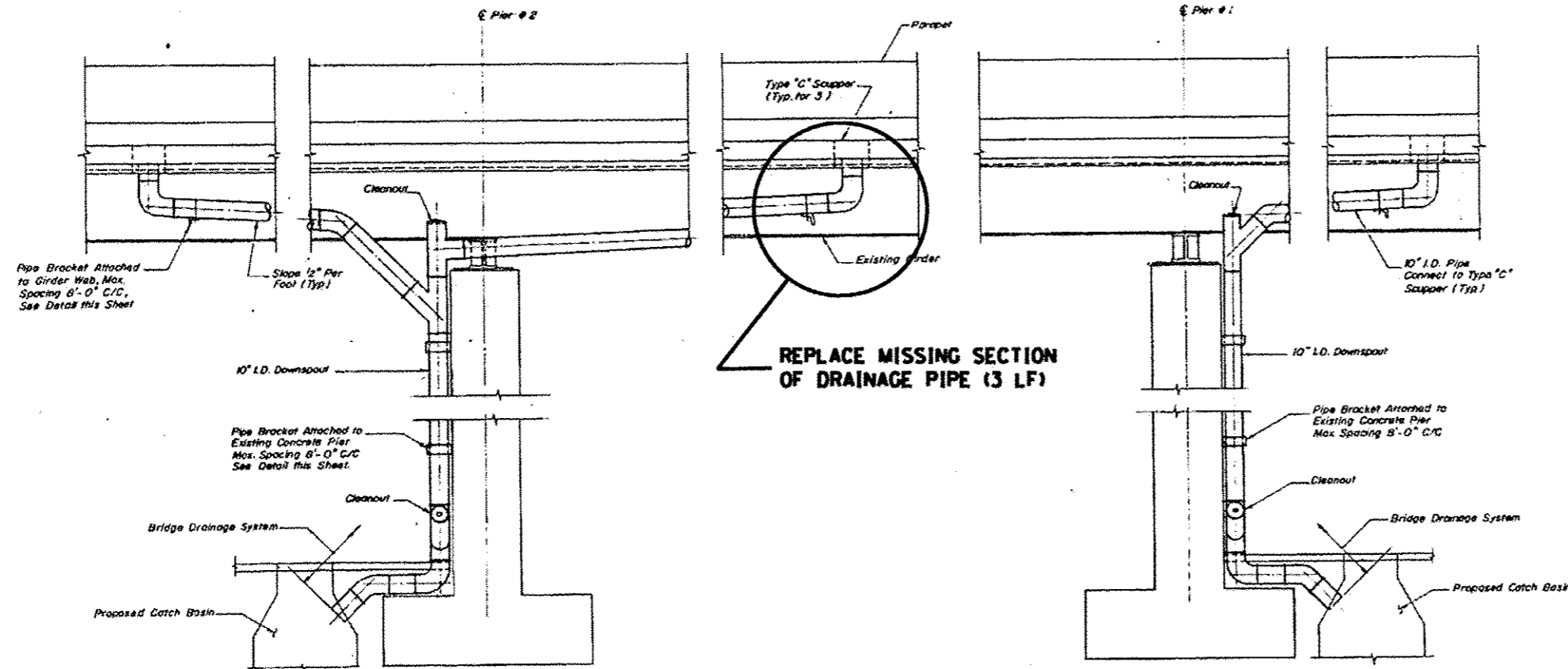
1. ELASTOMERIC PADS SHALL BE IN ACCORDANCE WITH ARTICLE 718.20, TABLE A OR B OF THE STANDARD SPECIFICATIONS.
2. THICKNESS OF ELASTOMERIC PAD IS THEORETICALLY EQUAL TO THE FILLET HEIGHT "1" (TOP OF STEEL BEAM TO UNDERSIDE OF SLAB). THE CONTRACTOR SHALL MAKE ADJUSTMENTS IN THE THICKNESS TO SUIT FIELD CONDITIONS. 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"

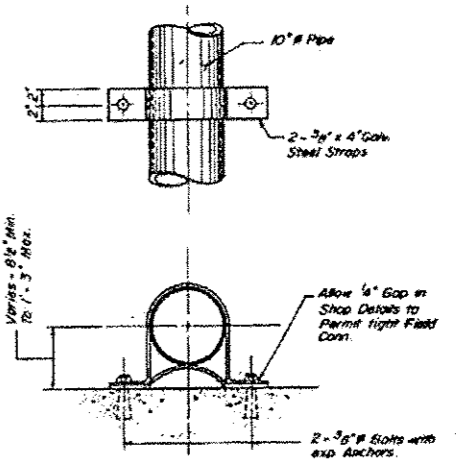
FOR INFORMATION ONLY

DESIGNED -	EXAMINED -	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 3 (SN 016-0130) BRIDGE SCUPPER-TYPE "C"		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED -	ENGINEER OF STRUCTURAL SERVICES			VAR.	2015-046T	COOK	81	17		
DRAWN -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 2 OF 3 SHEETS		CONTRACT NO. 62B12		ILLINOIS FED. AID PROJECT		
CHECKED -		REVISED								

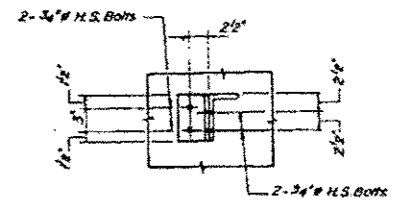


REPLACE MISSING SECTION OF DRAINAGE PIPE (3 LF)

ELEVATION - DRAINAGE SYSTEM



PIPE BRACKET DETAIL (TO CONCRETE)



PIPE BRACKET DETAIL (TO BEAM WEB)

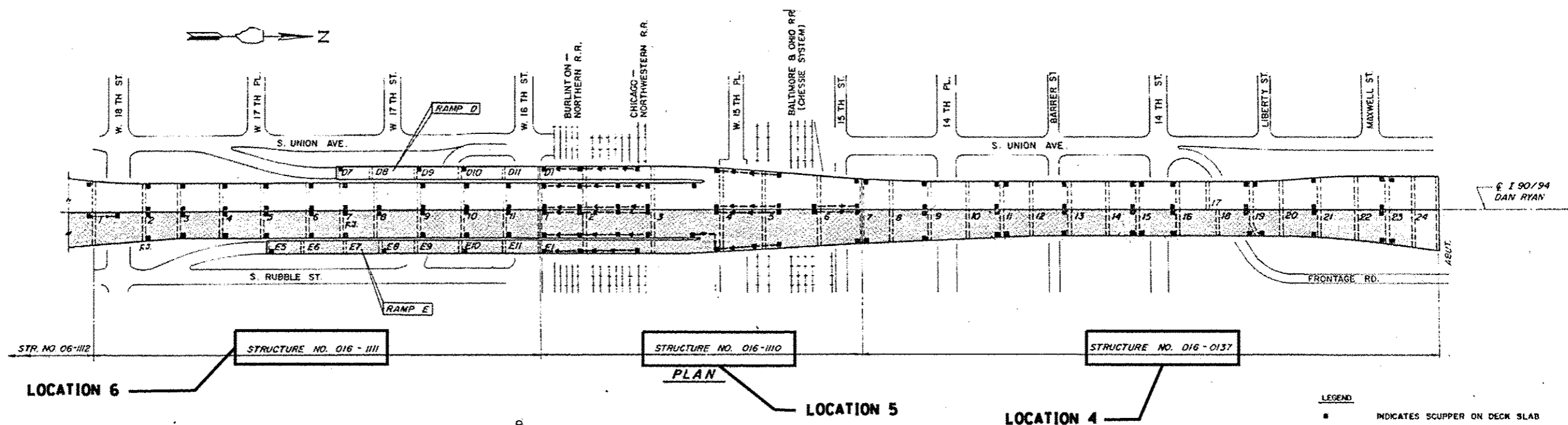
DESIGNED -	EXAMINED	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN -	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 3 (SN 016-0130)
DRAINAGE DETAILS**

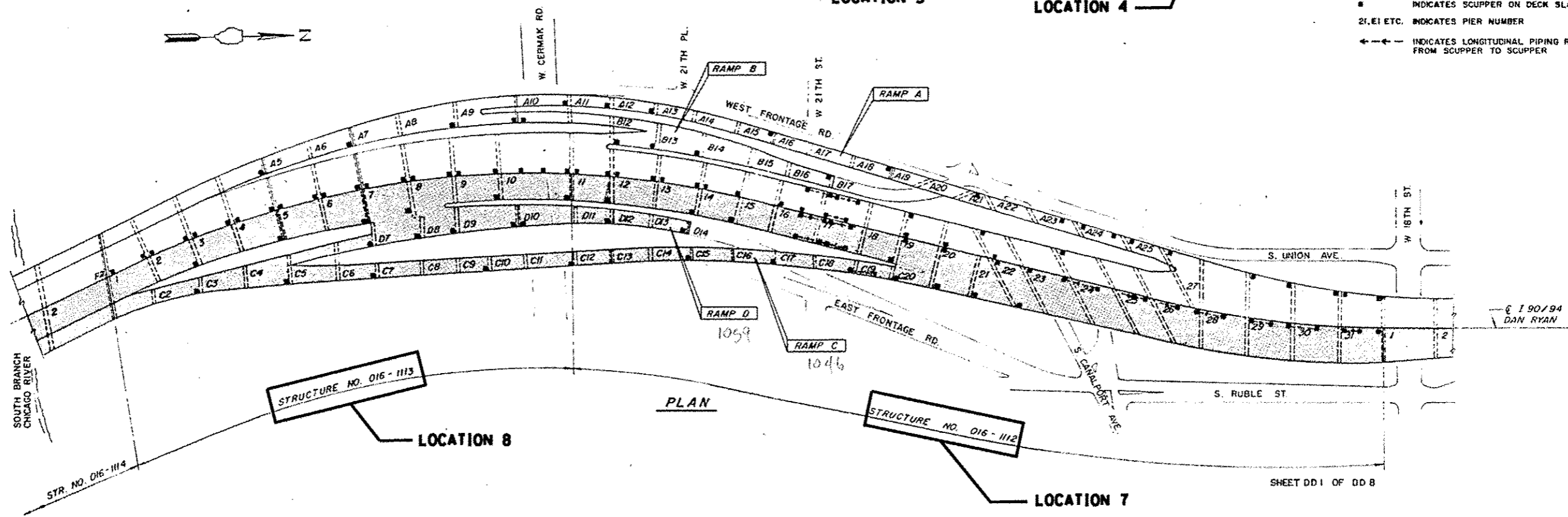
SHEET NO. 3 OF 3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	18
CONTRACT NO. 62B12			ILLINOIS FED. AID PROJECT	



LEGEND

- INDICATES SCUPPER ON DECK SLAB
- 21, E1 ETC. INDICATES PIER NUMBER
- ←←← INDICATES LONGITUDINAL PIPING RUN FROM SCUPPER TO SCUPPER



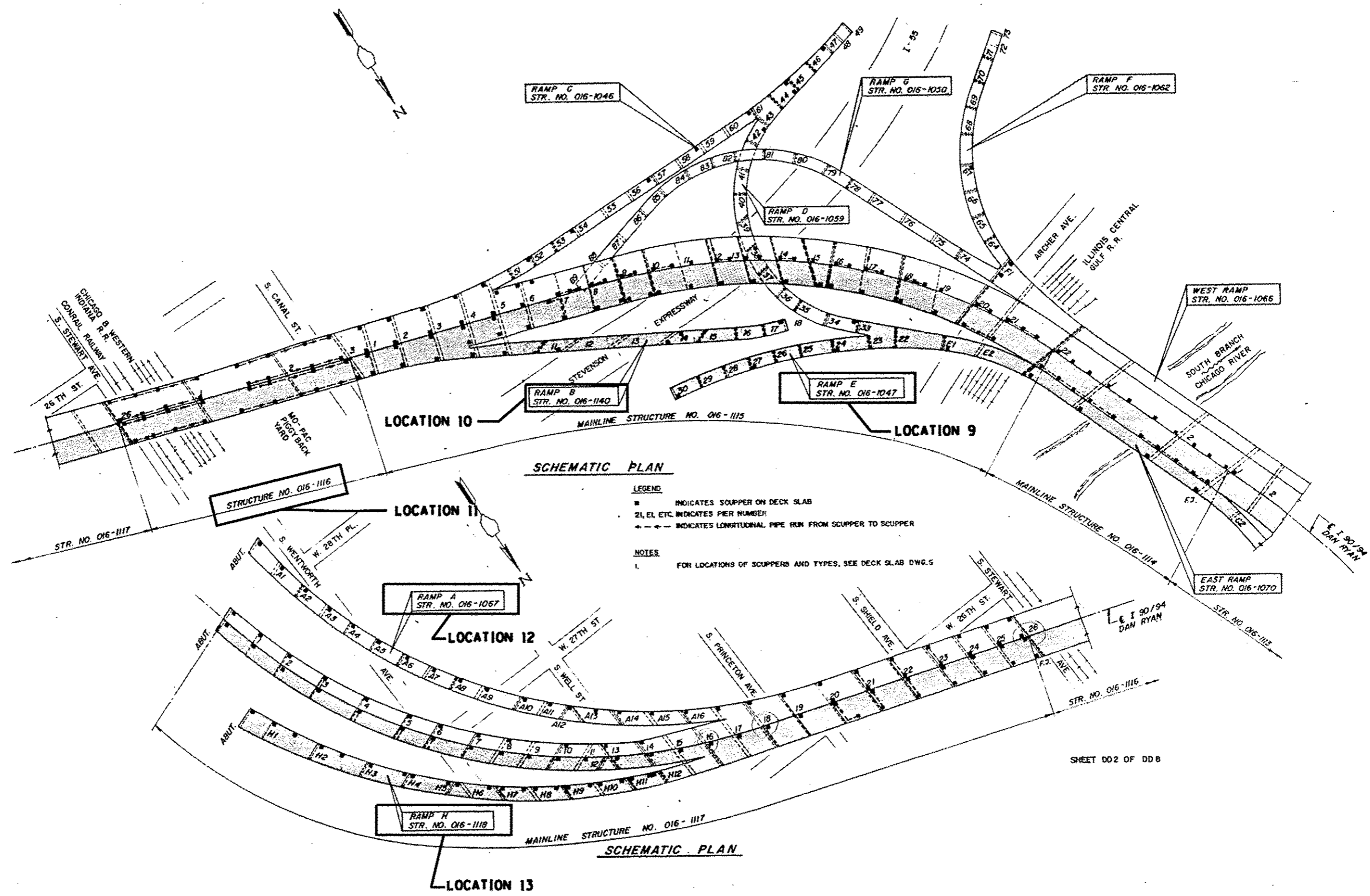
SHEET DD1 OF DD8

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
SCHEMATIC PLAN
SHEET NO. 1 OF 2 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	19
CONTRACT NO. 62B12			ILLINOIS FED. AID PROJECT	



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

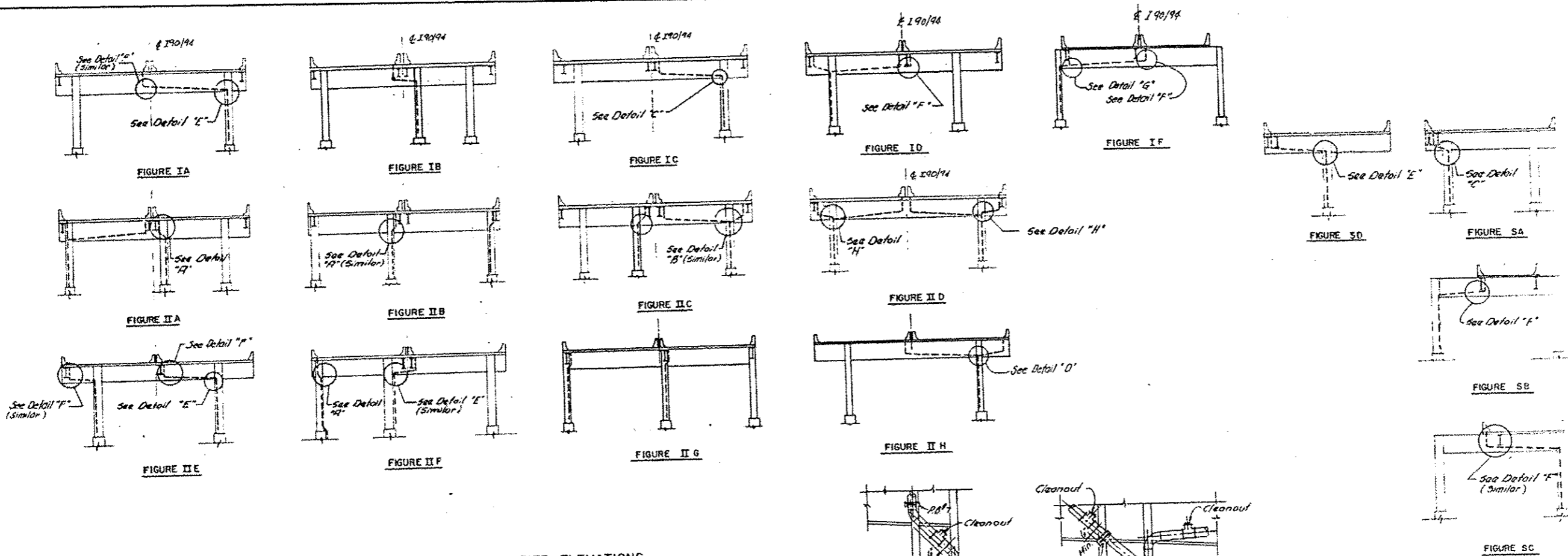
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATIONS 4 TO 13
SCHEMATIC PLAN**

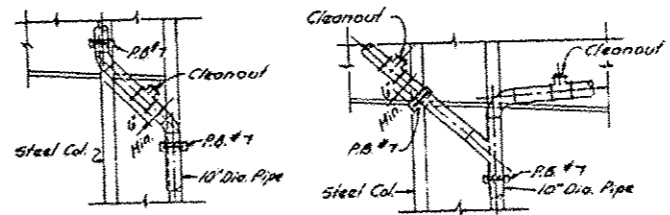
SHEET NO. 2 OF 2 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	20
CONTRACT NO. 62B12			ILLINOIS FED. AID PROJECT	

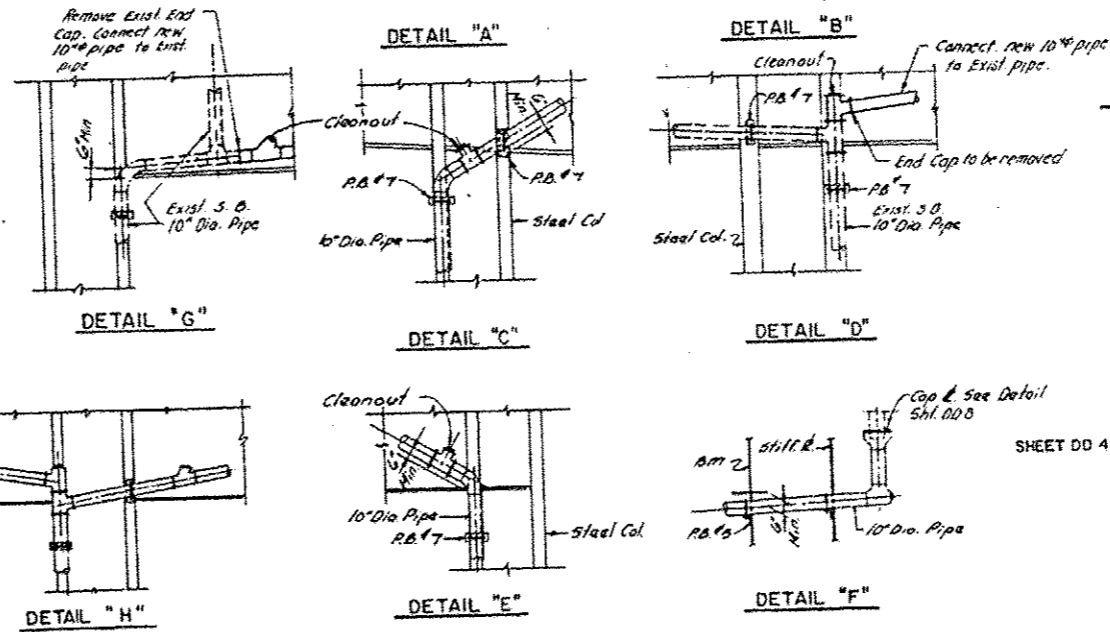
SHEET 002 OF 008



DOWNSPOUTS AT STEEL PIER ELEVATIONS
MAINLINE LOOKING UPSTATION



DOWNSPOUTS AT STEEL PIER ELEVATIONS
RAMPS LOOKING UPSTATION

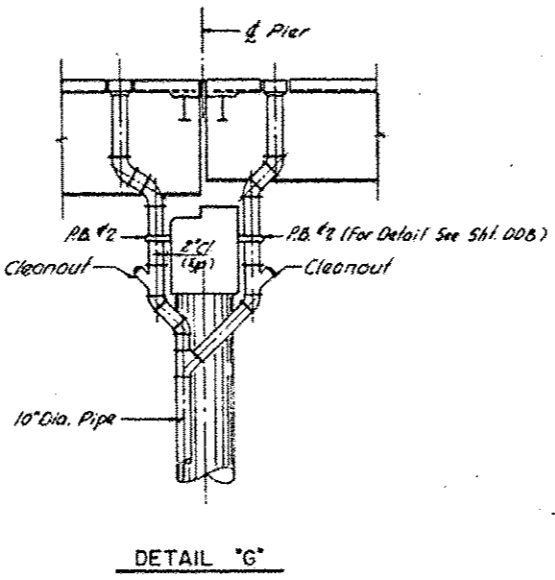
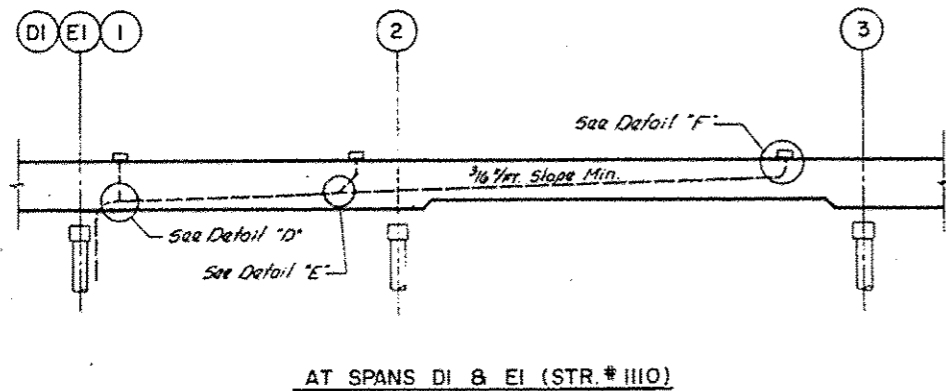
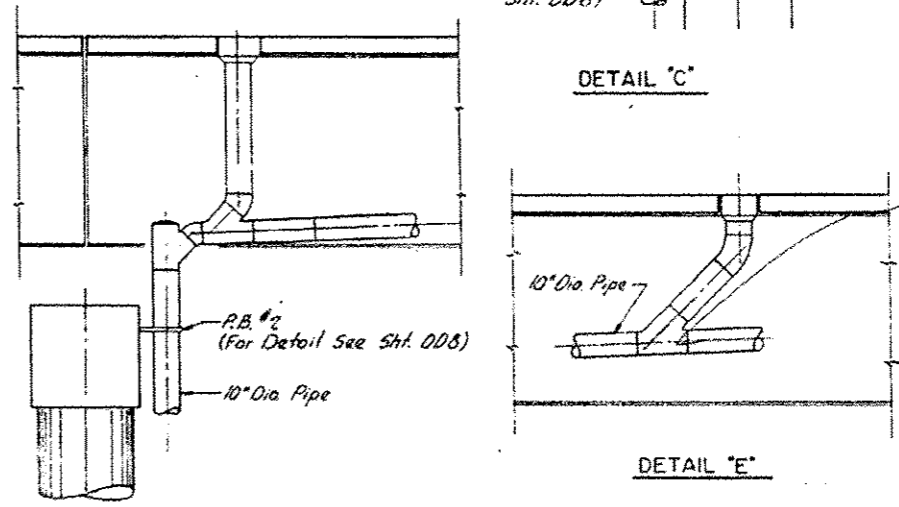
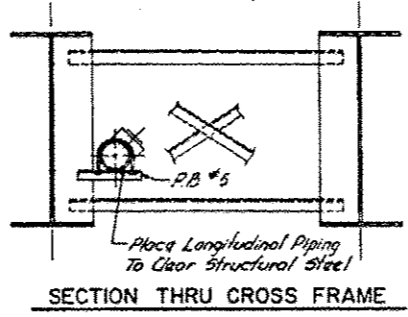
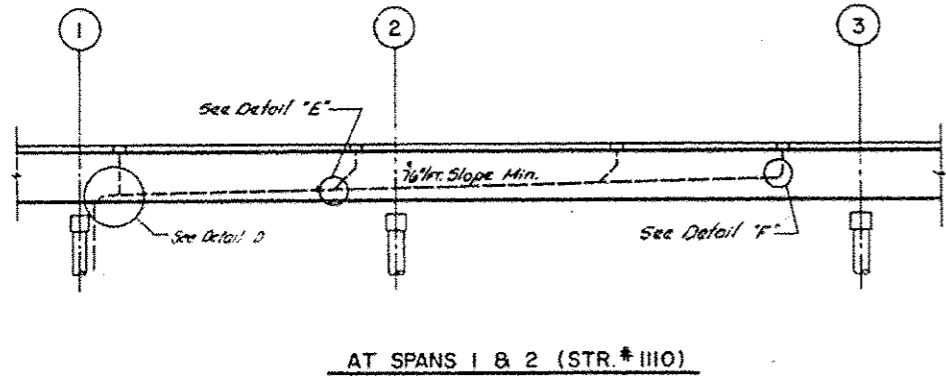
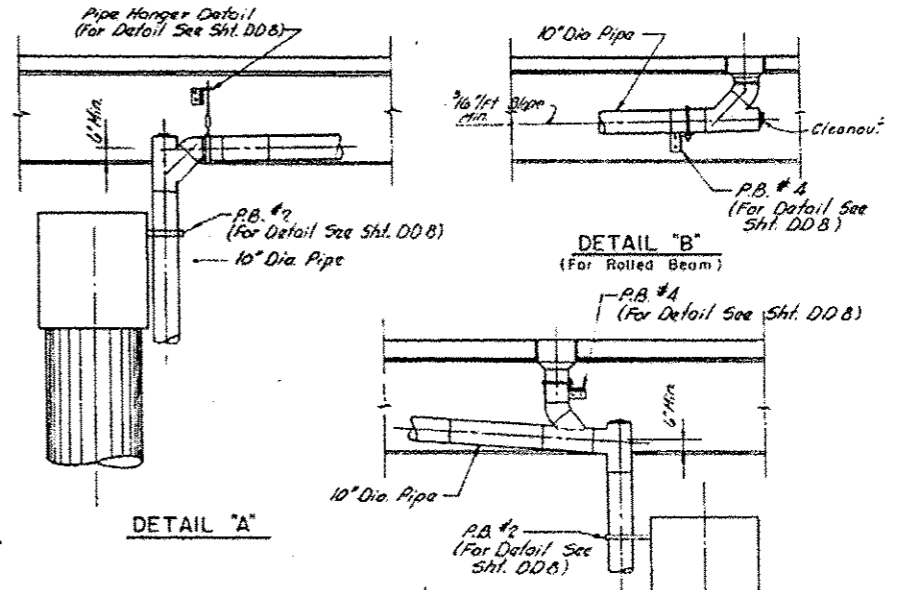
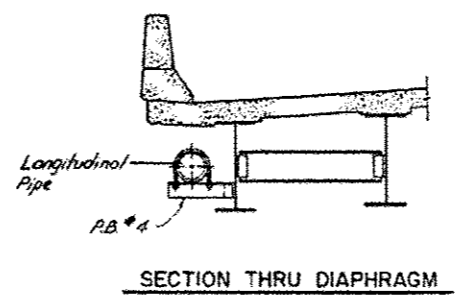
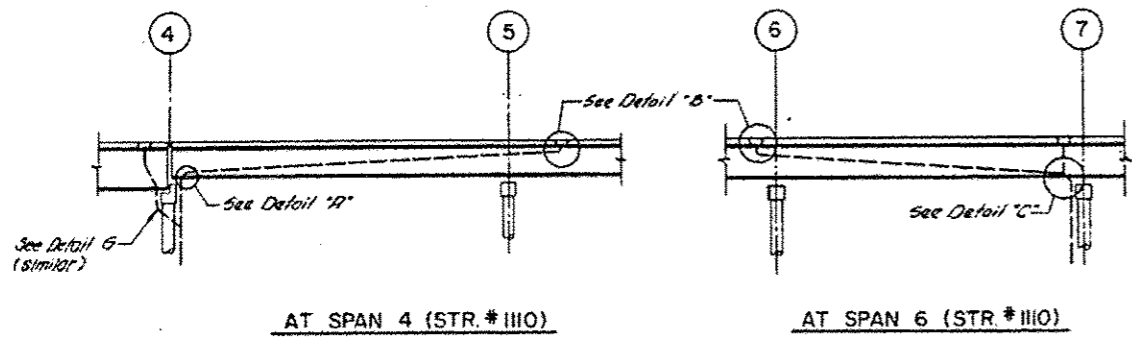


NOTES:
For Pipe Bracket (P.B.) Details see Typical Detail Sht. DD 6.
For Longitudinal Runs see Shts. DD 5 & DD 8.
Minimum slope on any run of pipe shall be 1/8"ft. unless noted.

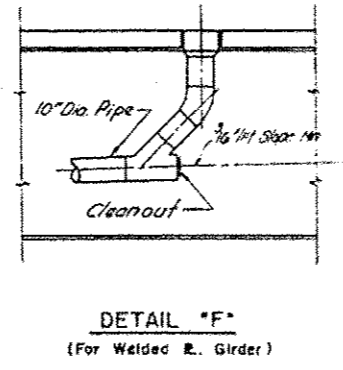
SHEET DD 4 OF DD 8

FOR INFORMATION ONLY

DESIGNED -	EXAMINED -	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATIONS 4 TO 13 DOWNSPOUTS AT STEEL PIER	F.A. RTE. VAR.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	REVISED			2015-046T	COOK	81	22	
DRAWN -	PASSED	REVISED			CONTRACT NO. 62B12				
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED			ILLINOIS FED. AID PROJECT				
			SHEET NO. 2 OF 6 SHEETS						



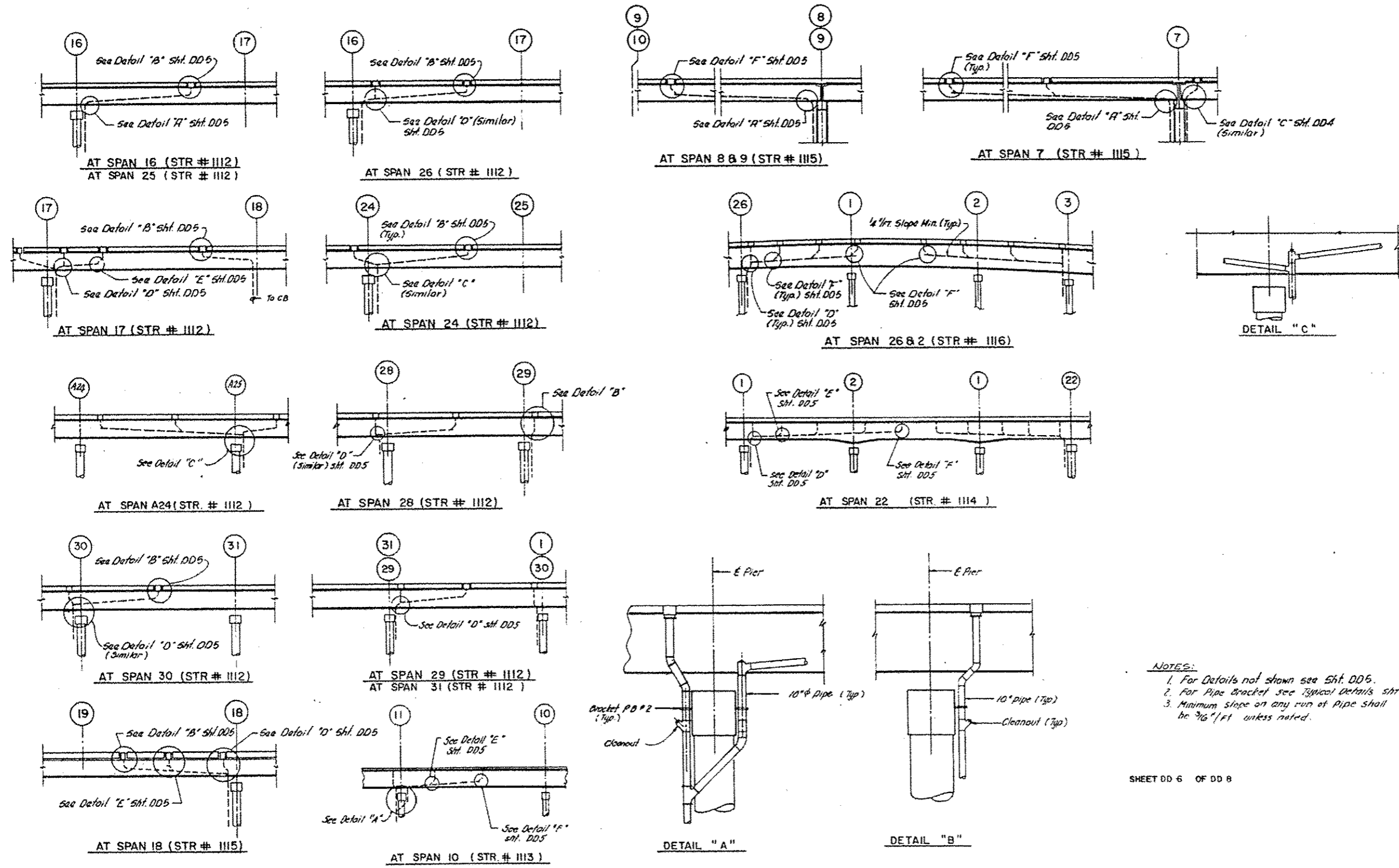
NOTES:
 For Pipe Bracket not shown in Details, the Contractor may use Pipe Bracket as shown in Sht. DD8, or any other Pipe Bracket subject to Approval by Engineer.
 All Longitudinal Runs of piping to be supported at Max. Spacing 8'-0" c/c.



SHEET DD 5 OF DD 6

FOR INFORMATION ONLY

DESIGNED -	EXAMINED	DATE	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATIONS 4 TO 13 LONGITUDINAL RUN AND DETAILS - I	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED -	ENGINEER OF STRUCTURAL SERVICES				VAR.	2015-046T	COOK	81	23	
DRAWN -	PASSED	REVISED			CONTRACT NO. 62B12					
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED			ILLINOIS FED. AID PROJECT					
			SHEET NO. 3 OF 6 SHEETS							

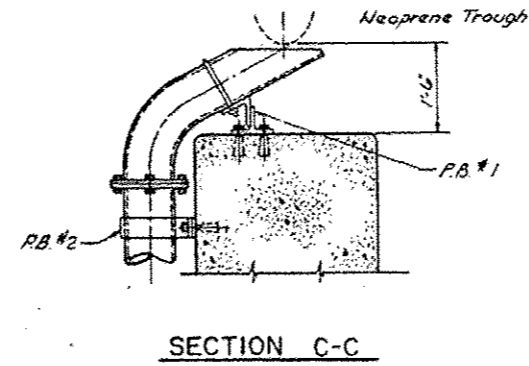
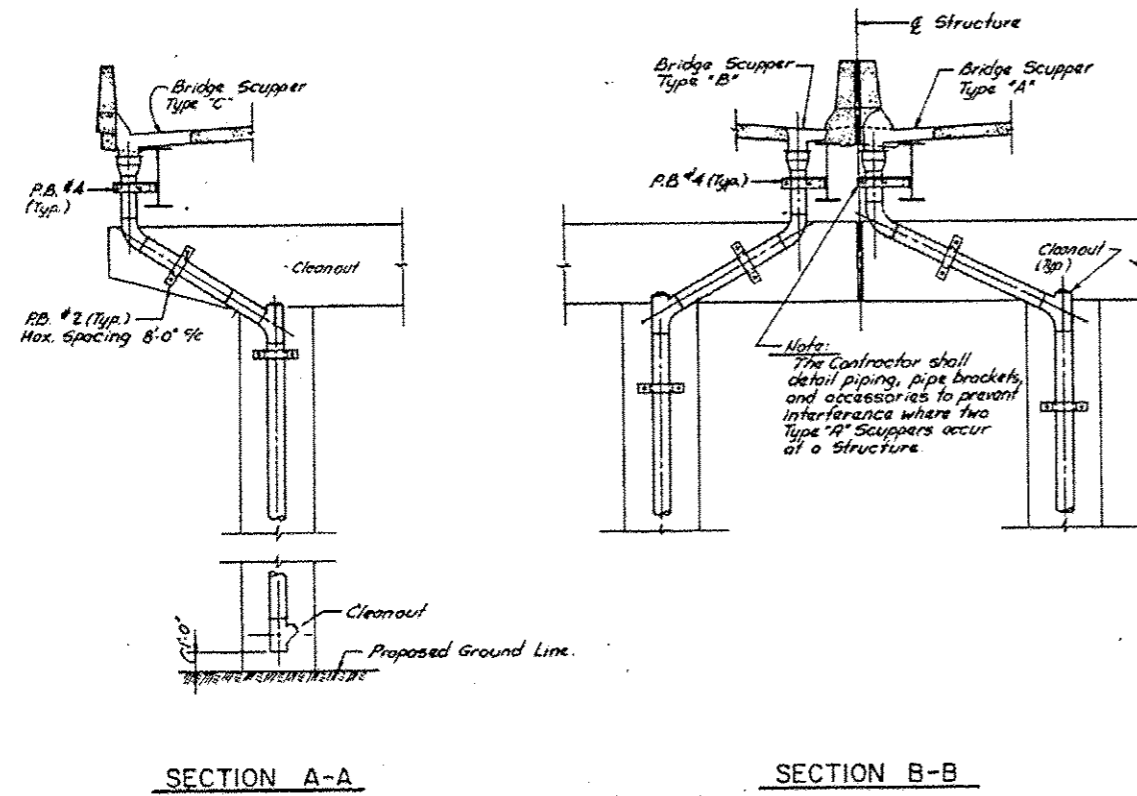
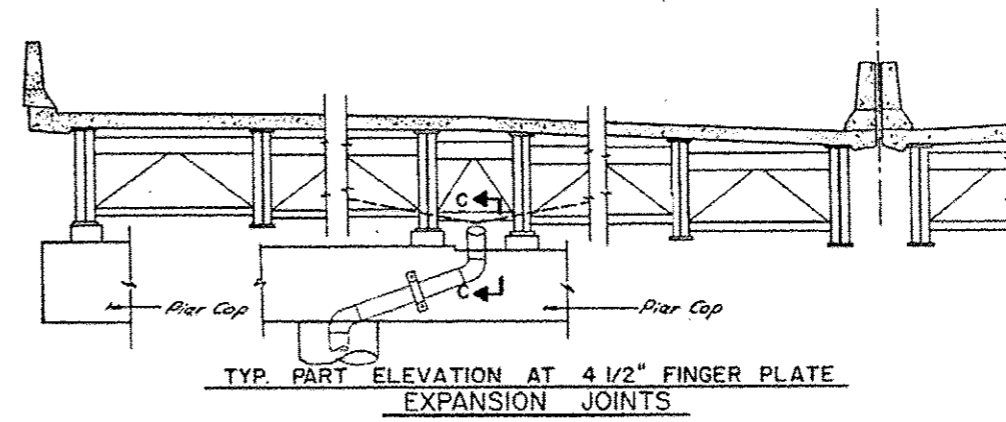
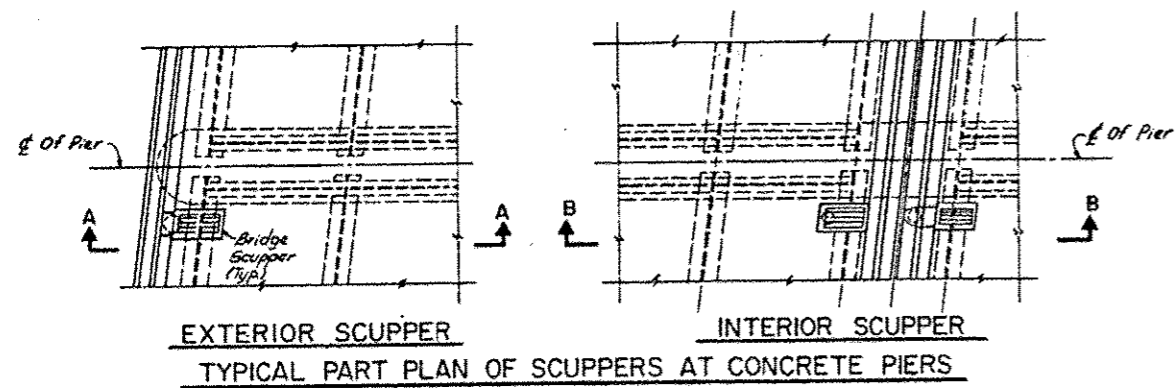


NOTE:
 1. For Details not shown see Sht. DD5.
 2. For Pipe Bracket see Typical Details sht DD8.
 3. Minimum slope on any run of Pipe shall be 1/16"/ft unless noted.

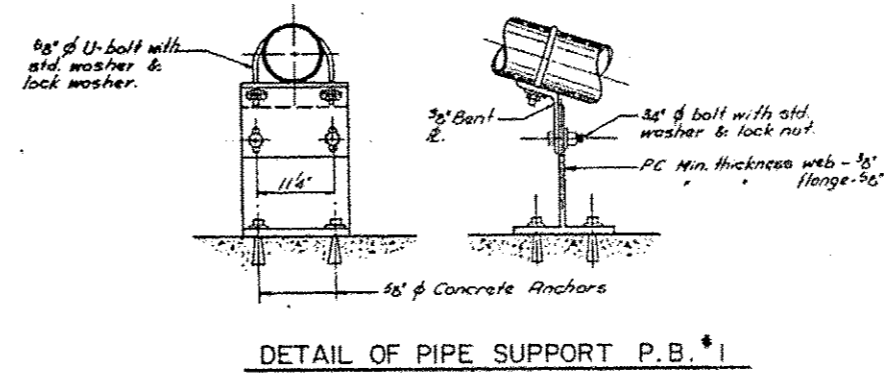
SHEET DD 6 OF DD 8

FOR INFORMATION ONLY

DESIGNED -	EXAMINED -	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATIONS 4 TO 13 LONGITUDINAL RUN AND DETAILS - II		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	REVISED		VAR.	2015-046T	COOK	81	24		
DRAWN -	PASSED	REVISED		SHEET NO. 4 OF 6 SHEETS		CONTRACT NO. 62B12				
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED		ILLINOIS FED. AID PROJECT						



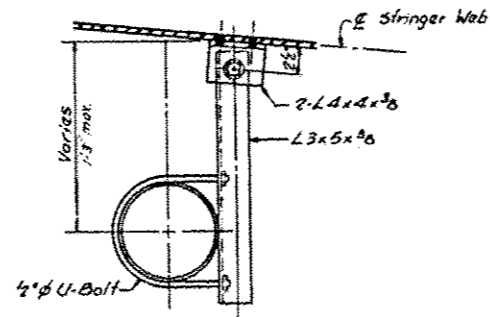
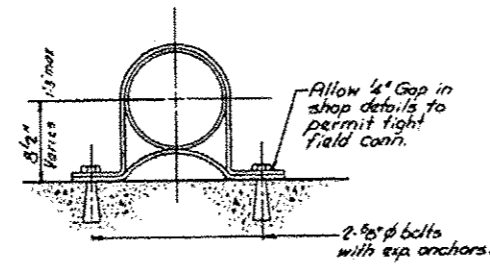
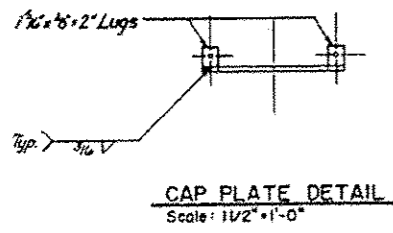
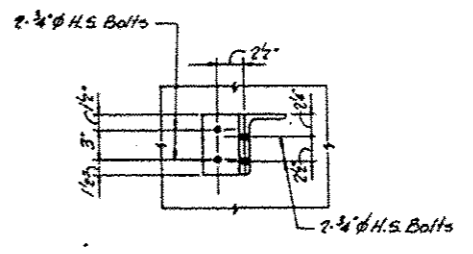
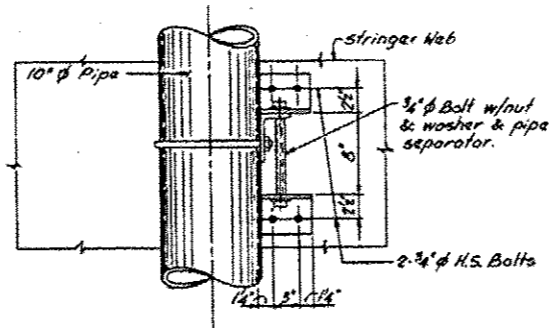
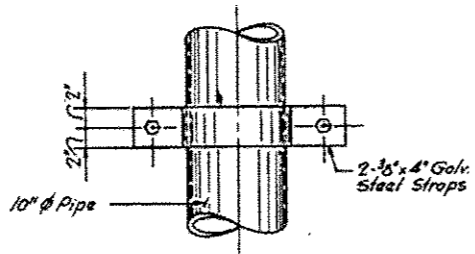
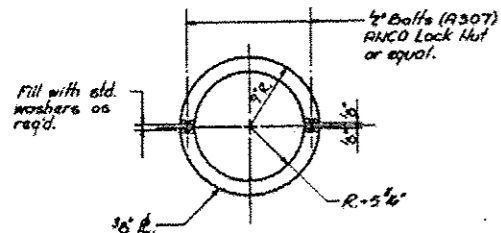
- Notes:**
- 1) Bridge Drainage Piping and fittings shall be Reinforced Fiberglass (Unless Noted), See Special Provisions.
 - 2) See Drainage Contract Plans for location of catch basins, manholes, storm sewers etc.
 - 3) Cleanouts - 10" Tee with blind flange or 5" Plug.
 - 4) All elbows shall be long radius.
 - 5) For Pipe Bracket (P.B.) Details not shown See Sht. D.D.6.



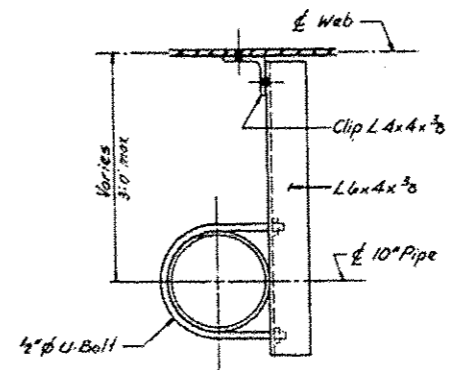
SHEET DD 7 OF 008

FOR INFORMATION ONLY

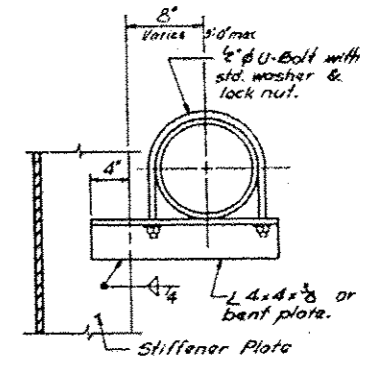
DESIGNED -	EXAMINED	DATE	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATIONS 4 TO 13 TYPICAL DETAILS AND SECTIONS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED -	ENGINEER OF STRUCTURAL SERVICES			VAR.	2015-046T	COOK	81	25		
DRAWN -	PASSED	REVISOR		SHEET NO. 5 OF 6 SHEETS		CONTRACT NO. 62B12		ILLINOIS FED. AID PROJECT		
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISOR								



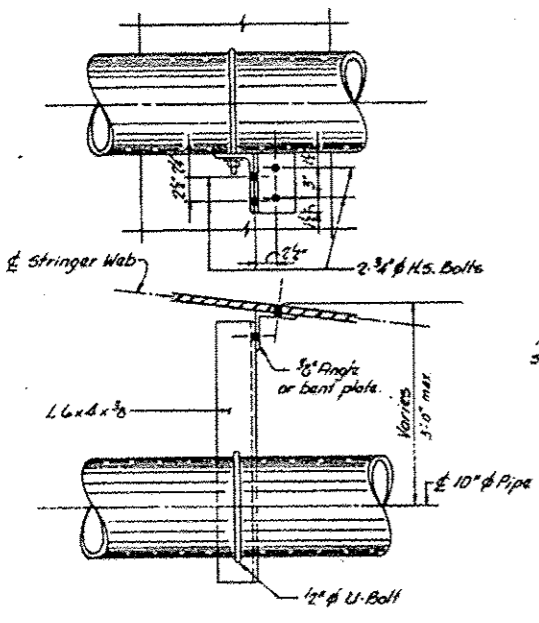
BRACKET P.B. #3
(FOR EXPANSION SEE NOTE 1.)



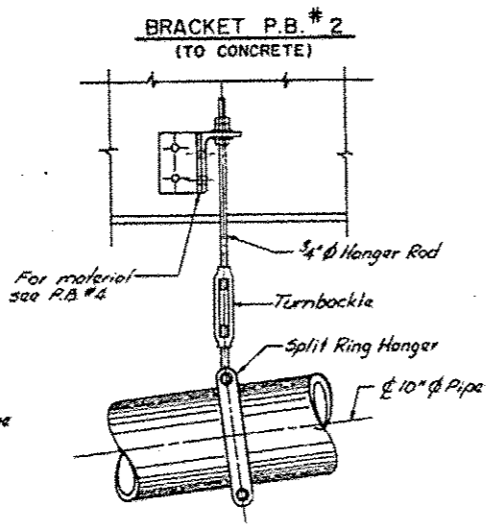
BRACKET P.B. #4
(TO WEB)



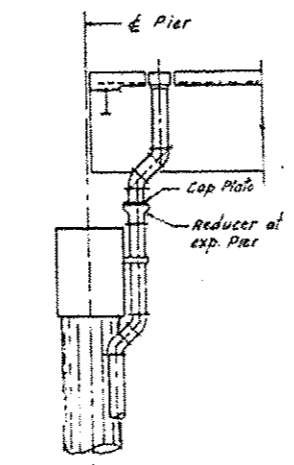
BRACKET P.B. #5
(TO STIFFENER)



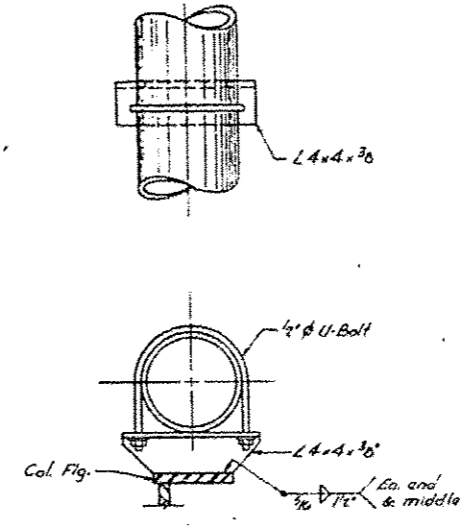
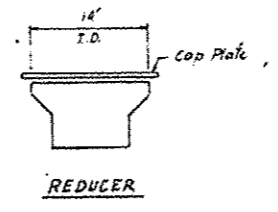
BRACKET P.B. #6



PIPE HANGER DETAIL



TYPICAL EXPANSION PIER

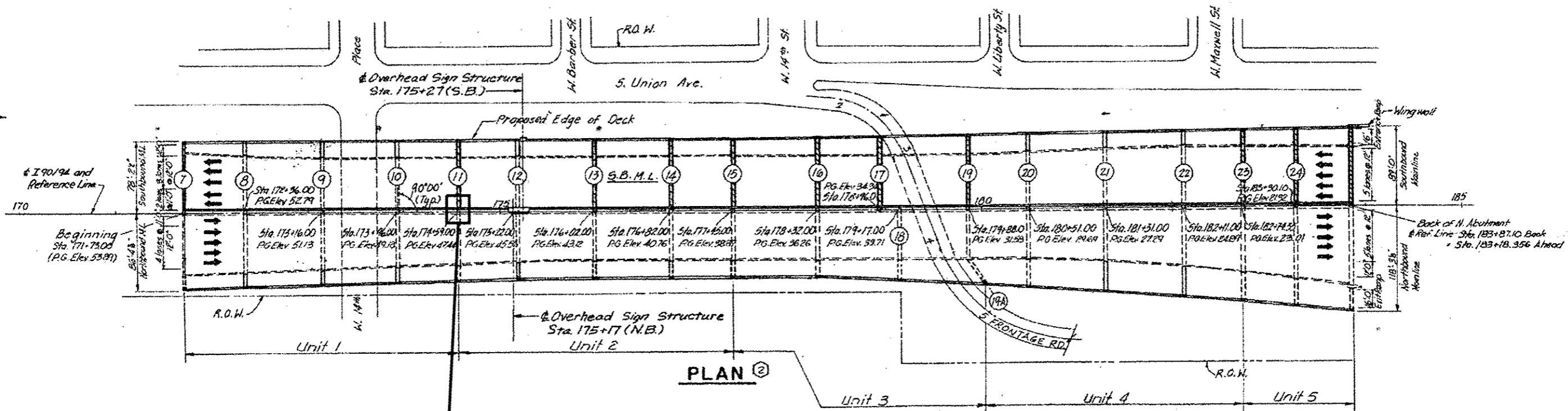
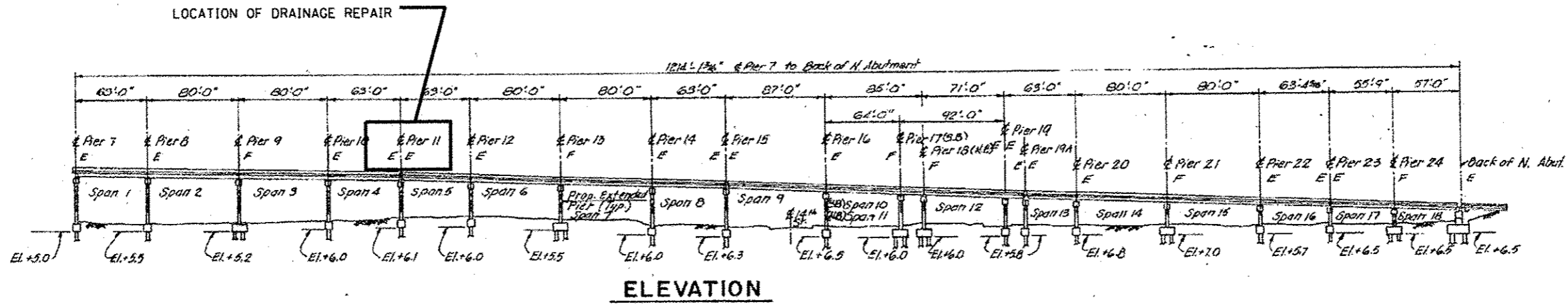


BRACKET P.B. #7

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

FOR INFORMATION ONLY

DESIGNED -	EXAMINED	DATE	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATIONS 4 TO 13 TYPICAL DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED -	ENGINEER OF STRUCTURAL SERVICES				VAR.	2015-046T	COOK	81	26	
DRAWN -	PASSED	REVISED			CONTRACT NO. 62B12					
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED			SHEET NO. 6 OF 6 SHEETS					
						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.

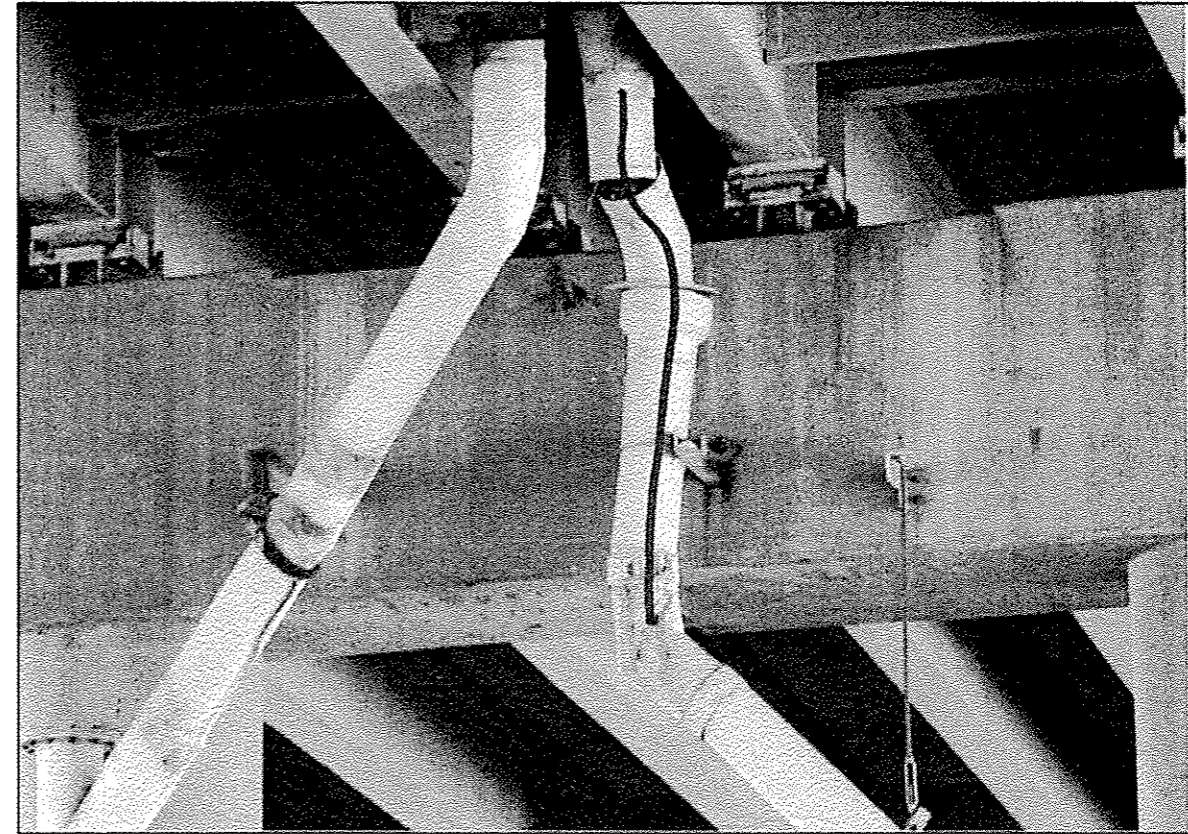
BILL OF MATERIAL (S.N. 016-0137)
I-90/94 OVER MAXWELL TO 15TH ST.

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	6

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



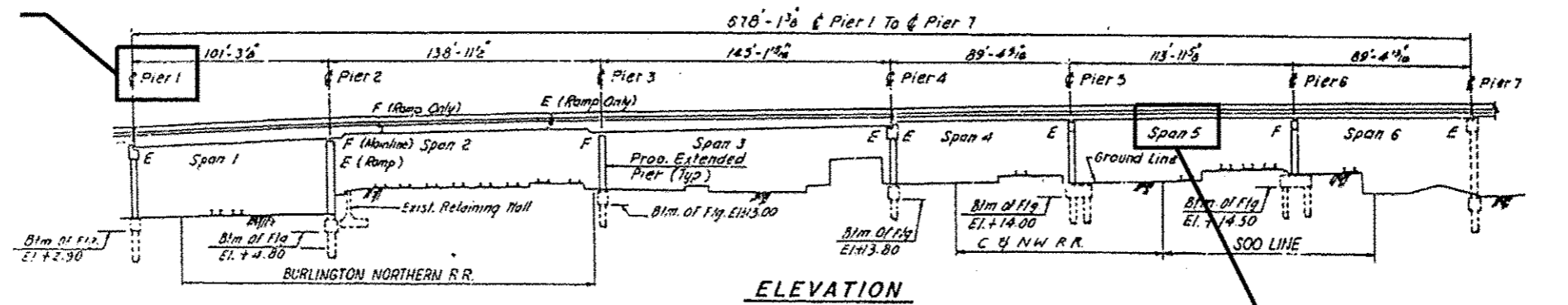
016-0137 - PHOTO #1
SOUTH FACE OF PIER 11



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

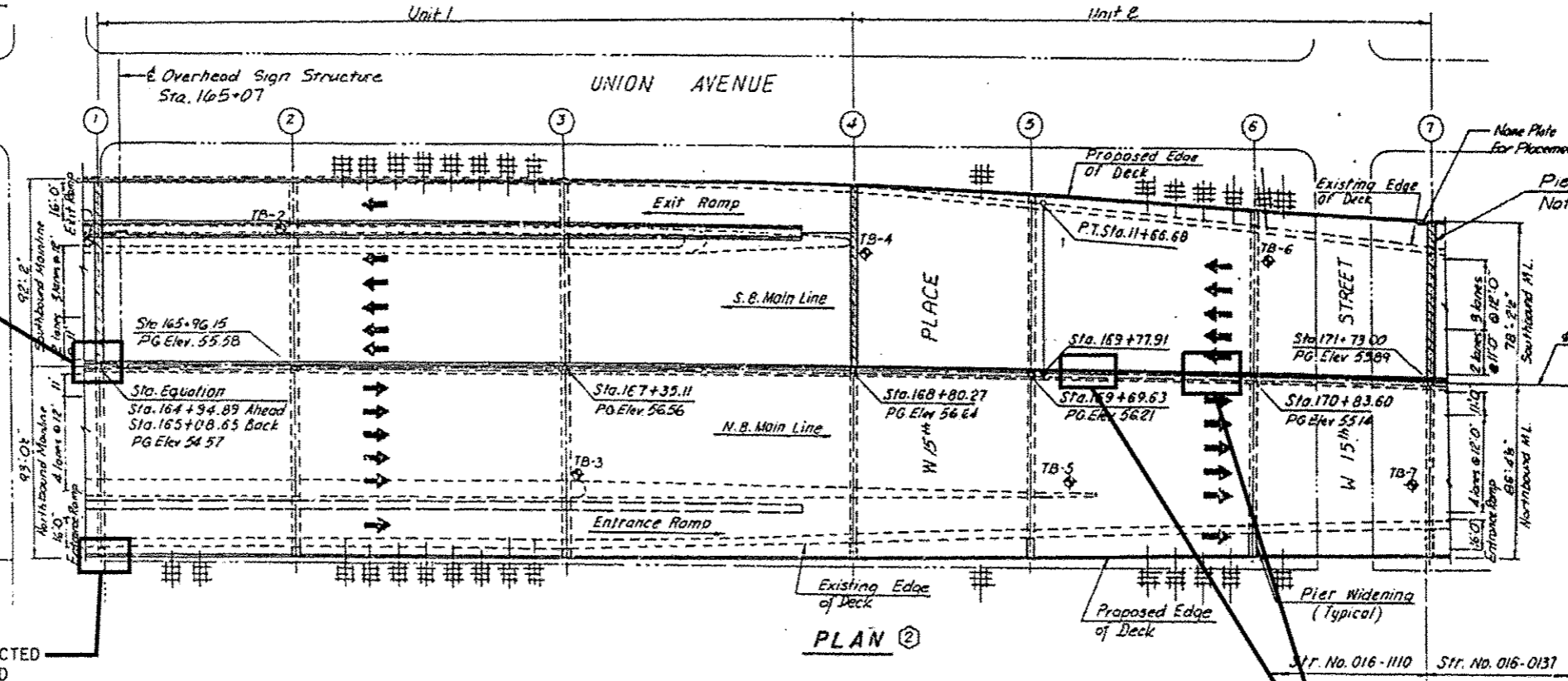
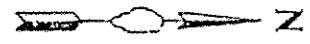
FILE NAME =	USER NAME = dshhary	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 4 (SN 016-0137) REPAIR AREA		F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1\1054EB10\INTEG.illinois.gov\PIWIDOT\Documents\1007 Offices\District 1\Projects\0137 Drawings\Design\013715-1ht-LOCATIONS	DRAWN -	REVISED -	VAR.				2015-046T	COOK	81	28	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.		CONTRACT NO. 62B12				
	PLOT DATE = 7/15/2015	DATE -	REVISED -		[ILLINOIS] FED. AID PROJECT						

LOCATION OF DRAINAGE REPAIR



ELEVATION

LOCATION OF DRAINAGE REPAIR



PLAN ②

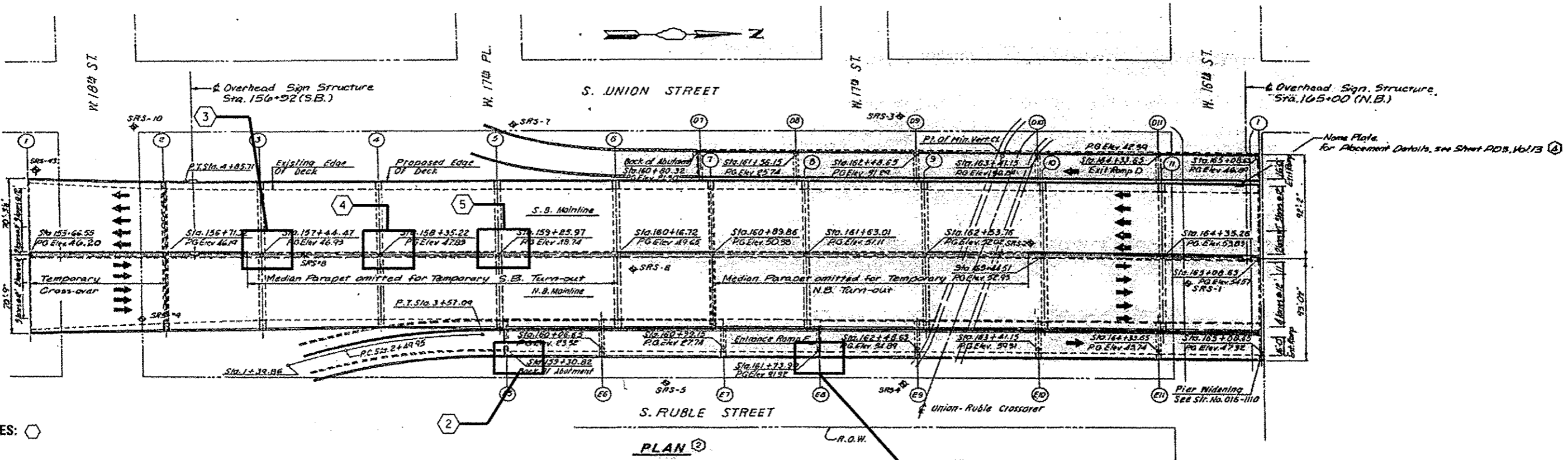
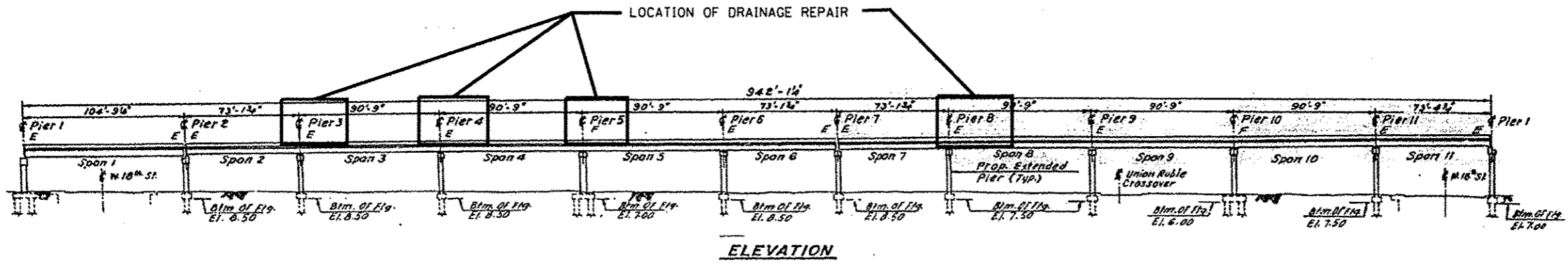
DAMAGED DRAINAGE PIPE AT GROUND LINE TO BE REPLACED (3 LF). SEE PHOTO 1 ON SHEET 2 OF 2 OF LOCATION 5 (SN 016-1110) SHEETS

REPLACE AND RECONNECT DAMAGED/DISCONNECTED DRAINAGE PIPES AT RAMP'S EAST FASCIA AND AT PIER'S EAST COLUMN (6 LF) SEE PHOTOS 2 AND 3 ON SHEET 2 OF 2 OF LOCATION 5 (SN 016-1110) SHEETS

REPLACE DAMAGED/DISCONNECTED DRAINAGE ELBOW AND PIPES IN NORTH-BOUND DIRECTION (5 LF AT EACH LOCATION = 10 LF) SEE PHOTOS 4 AND 5 ON SHEET 2 OF 2 OF LOCATION 5 (SN 016-1110) SHEETS

BILL OF MATERIAL (S.N. 016-1110)
I-90/94 OVER 15TH TO 16TH ST.

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	19

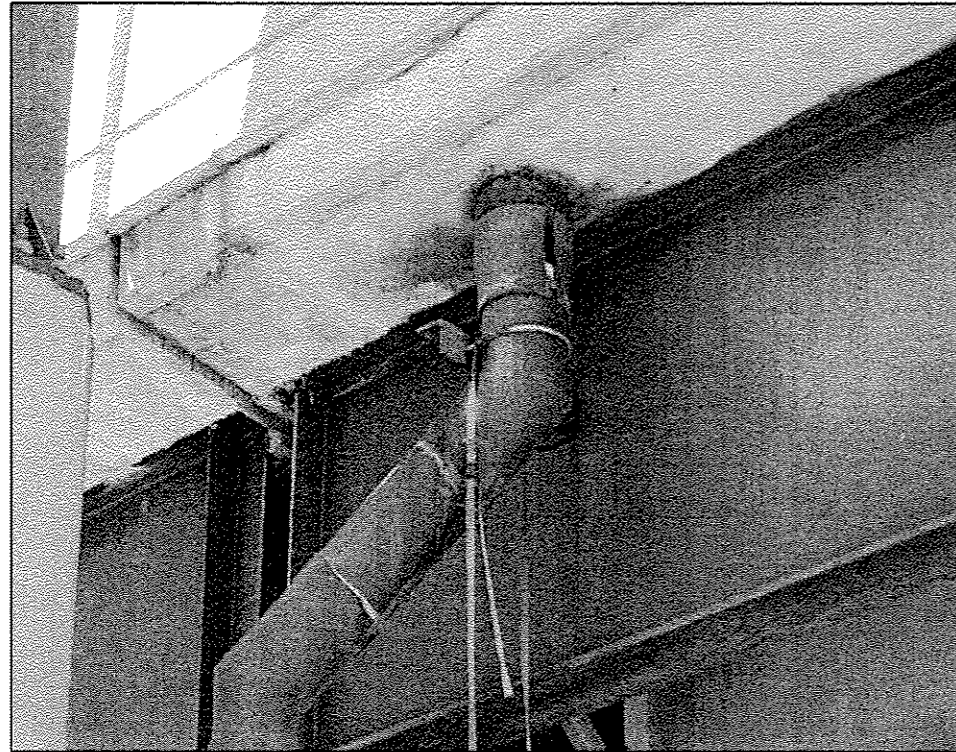


NOTES:

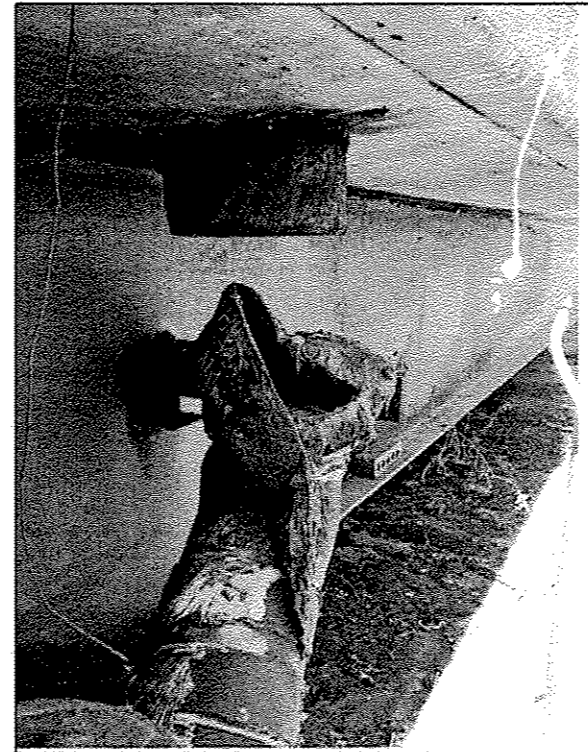
1. 2.0 LF OF DRAINAGE SYSTEM REPAIRS WILL BE DONE AT EAST FASCIA AT PIER E8 TO REPLACE DAMAGED CONNECTION BETWEEN DRAINAGE PIPE AND SCUPPER. SEE PHOTO 1 ON SHEET 2 OF 2 OF LOCATION 6 (SN 016-1111)
2. 8.0 LF OF DRAINAG SYSTEM REPAIRS WILL BE DONE AT RAMP E SOUTH ABUTMENT AT THE EAST END. SEE PHOTO 2 ON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



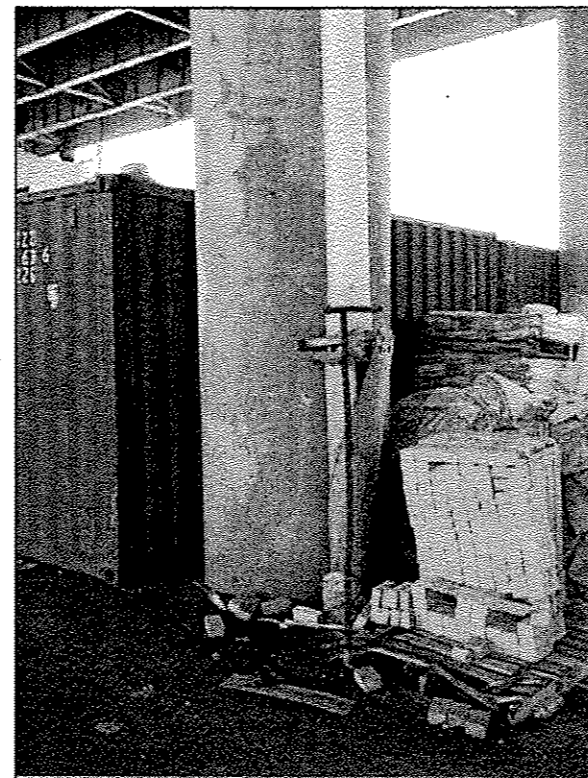
016-1111 PHOTO #2
RAMP E S. ABUTMENT _ E. FASCIA - LOOKING NORTH WEST



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

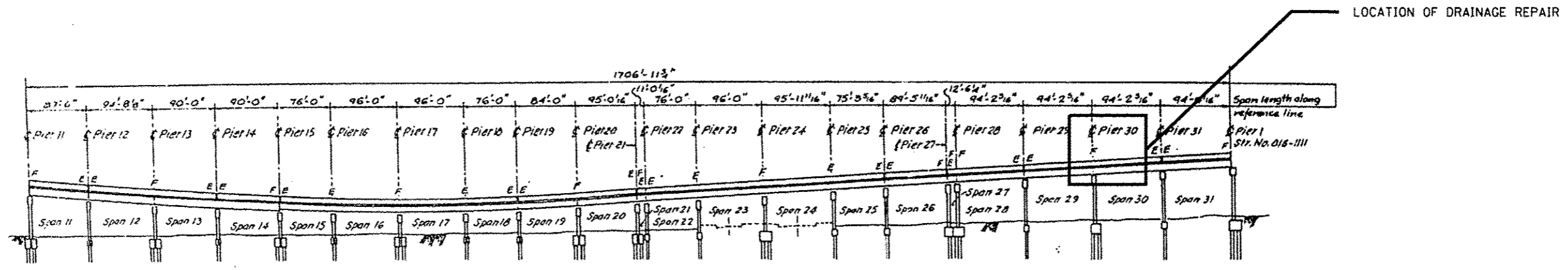


016-1111 PHOTO #4
MAIN LINE PIER 4 _ NORTH FACE

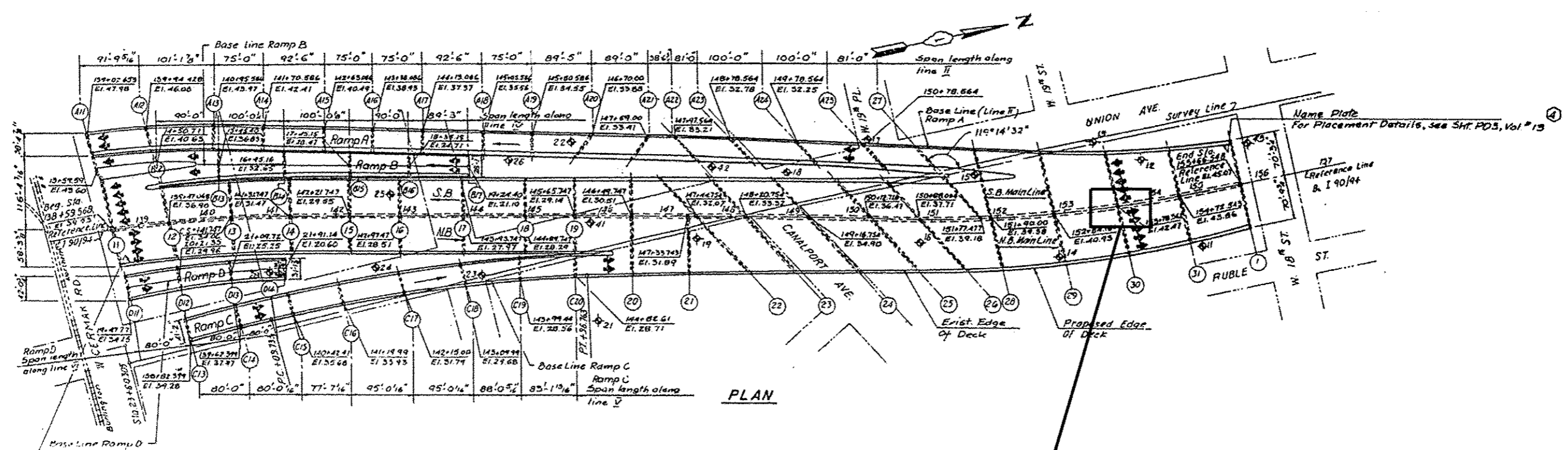


016-1111 PHOTO #5
MAIN LINE PIER 5 _ NORTH FACE

FILE NAME =	USER NAME = dahhr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 6 (SN 016-1111) REPAIR LOCATIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pu\\vlr04e80\INTEG\illinois.gov\PIW\DOT\Documents\DOT Offices\District 1\Projects\DI387\Drawings\Design\DI38715-sht-LOCATIONS		CHECKED -	REVISED -		VAR.	2015-046T	COOK	81	32			
Default	PLOT SCALE = 100.0000 / in.	DATE -	REVISED -		SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.			CONTRACT NO. 62B12				
	PLOT DATE = 7/15/2015				ILLINOIS FED. AID PROJECT							



ELEVATION



PLAN

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

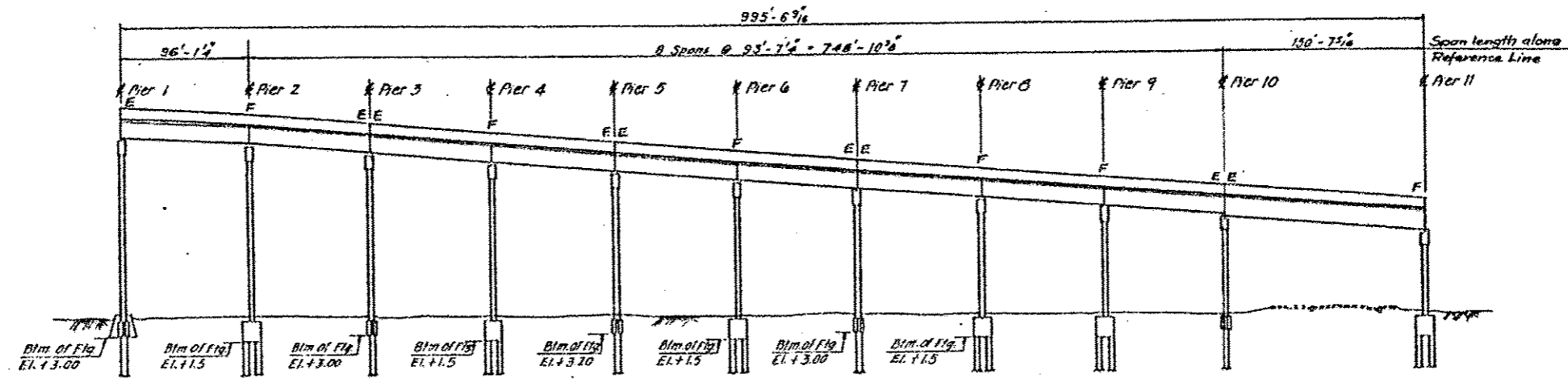


016-1112 PHOTO #1
 MAIN LINE PIER 30 _ NORTH FACE

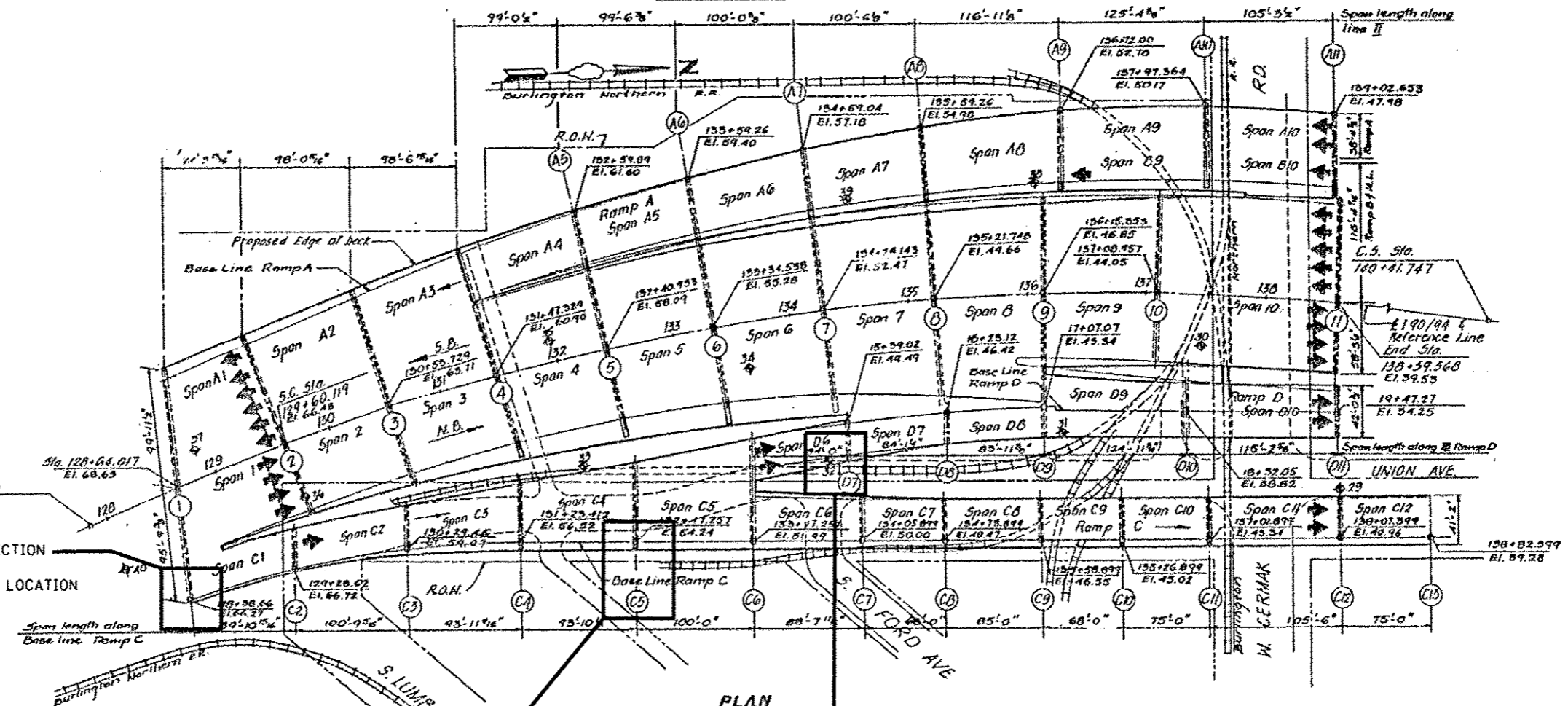
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 7 (SN 016-1112)
 REPAIR LOCATIONS

FILE NAME =	USER NAME = dahharr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 7 (SN 016-1112) REPAIR LOCATIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
p:\1\1084EBIDINTEG\Illinois.gov\PIWIDOT\Do	umanta\IDOT_Offices\Districts\Projects\0138715	0138715-sht-LOCATIONS	0138715-sht-LOCATIONS			VAR.	2015-046T	COOK	81	34	
Default	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 62B12		ILLINOIS FEH. AID PROJECT			
	PLOT DATE = 7/15/2015	DATE -	REVISED -			SCALE:	SHEET 2	OF 2	SHEETS	STA.	TO STA.



ELEVATION



PLAN

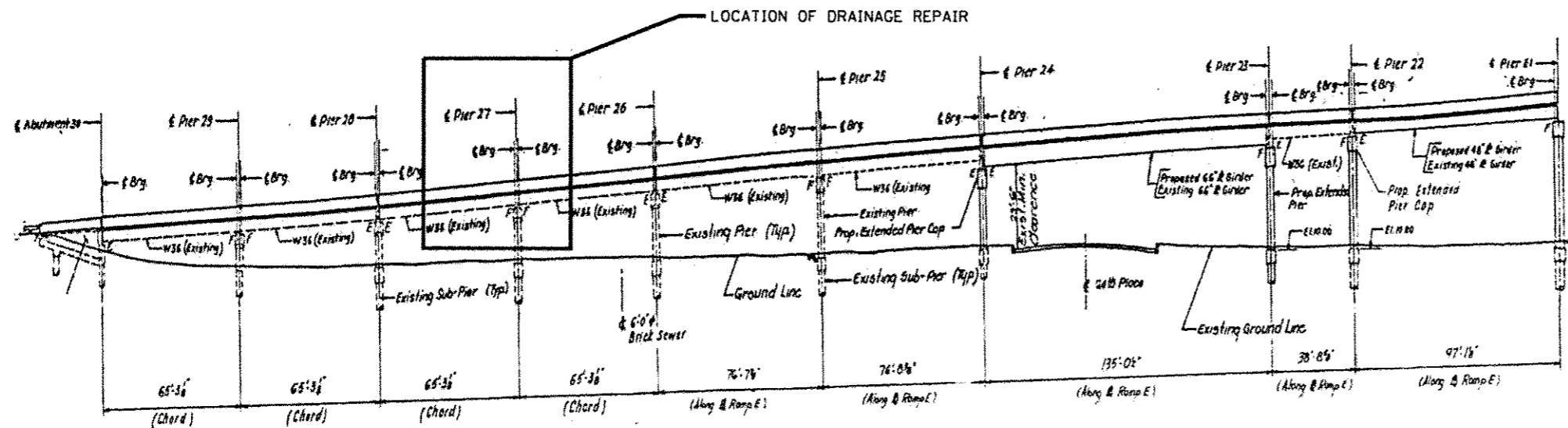
REPLACE DAMAGED DRAINAGE PIPE Y-CONNECTION AT PIER 1 EAST END (3 LF) SEE PHOTO 3 AND 4 ON SHEET 2 OF 2 OF LOCATION 8 (SN 016-1113) SHEETS

REPLACE DAMAGED DRAINAGE PIPE CONNECTION AT GROUND LEVEL AT PIER C5, EAST END, (5 LF) SEE PHOTO 2 ON SHEET 2 OF 2 OF LOCATION 8 (SN 016-1113) SHEETS

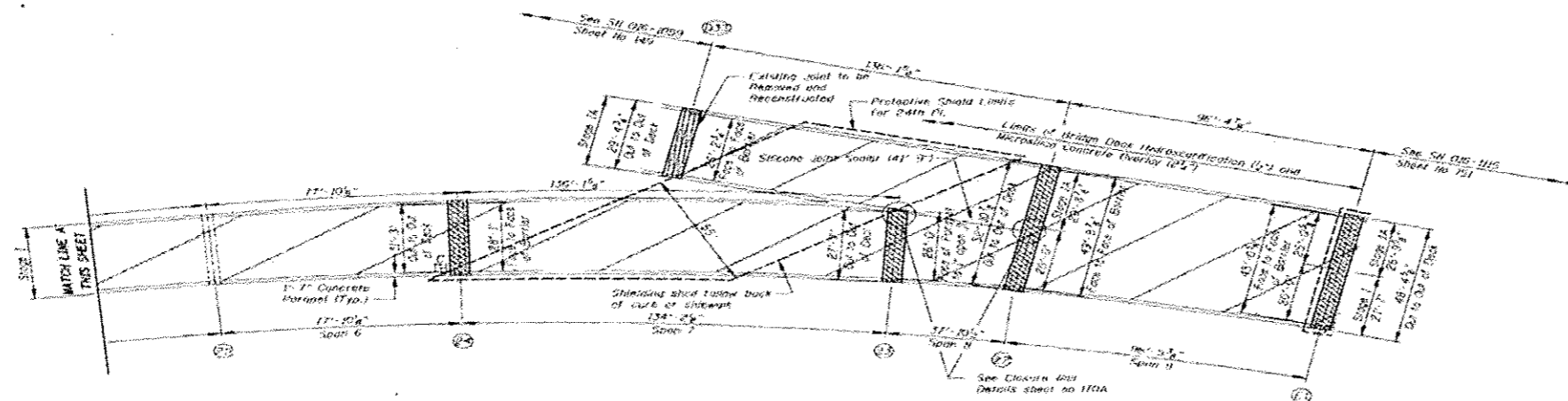
REPLACE MISSING/DAMAGED DRAINAGE PIPE SECTION AT PIER D7, EAST END, (8 LF) SEE PHOTO 1 ON SHEET 2 OF 2 OF LOCATION 8 (SN 016-1113) SHEETS

BILL OF MATERIAL (S.N. 016-1113)
I-90/94 OVER 22ND ST. TO SB CHICAGO RIVER

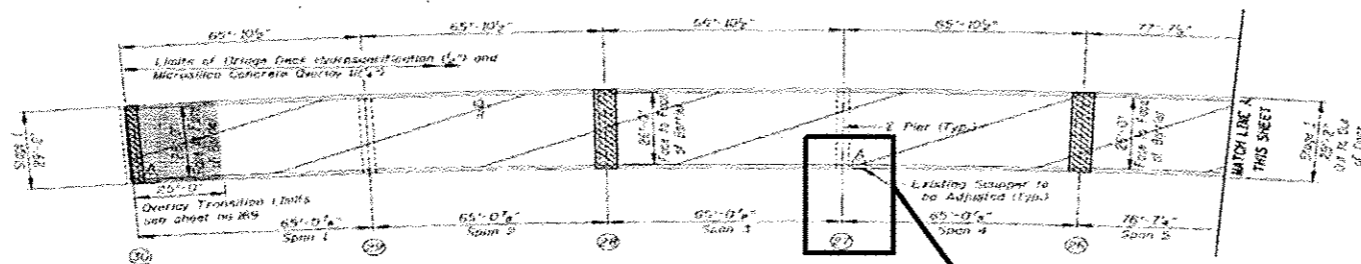
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	16



RAMP E

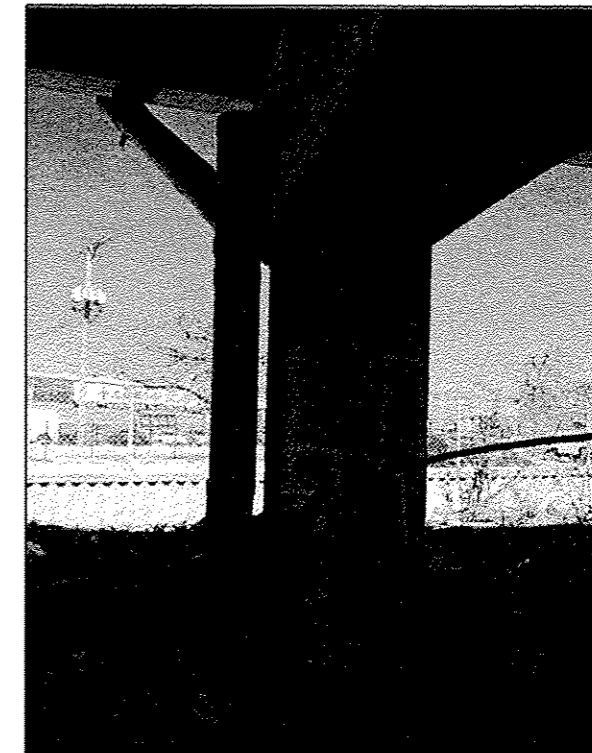


SN 016-1047 PARTIAL DECK PLAN



SN 016-1047 PARTIAL DECK PLAN

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



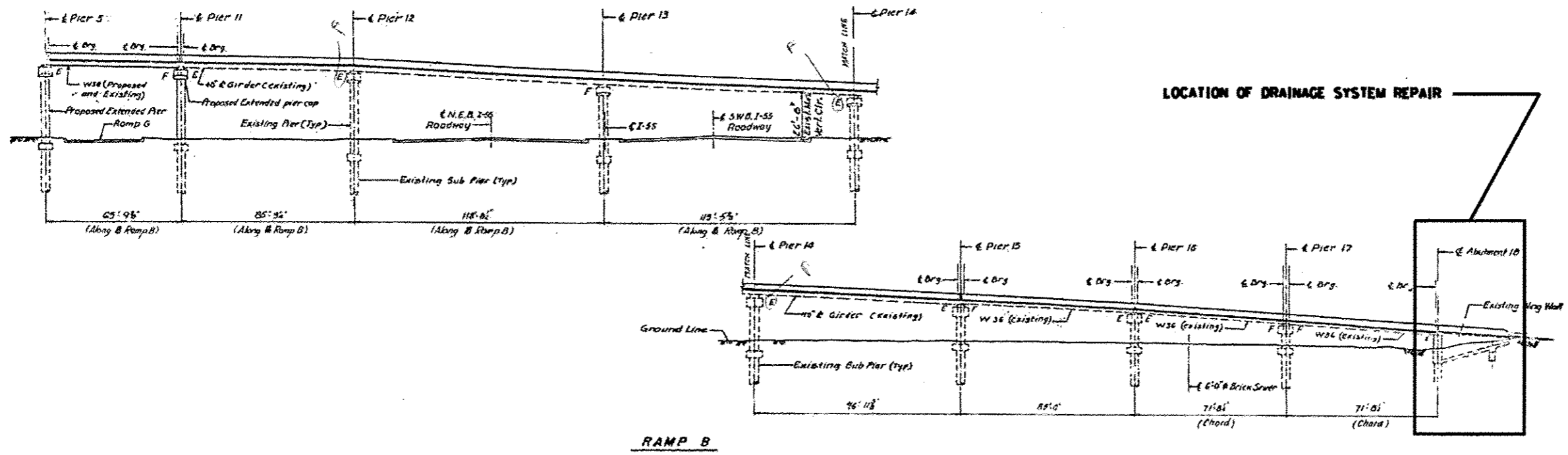
016-1047 PHOTO #1
PIER 27



016-1047 PHOTO #2
PIER 27 - CLOSE UP

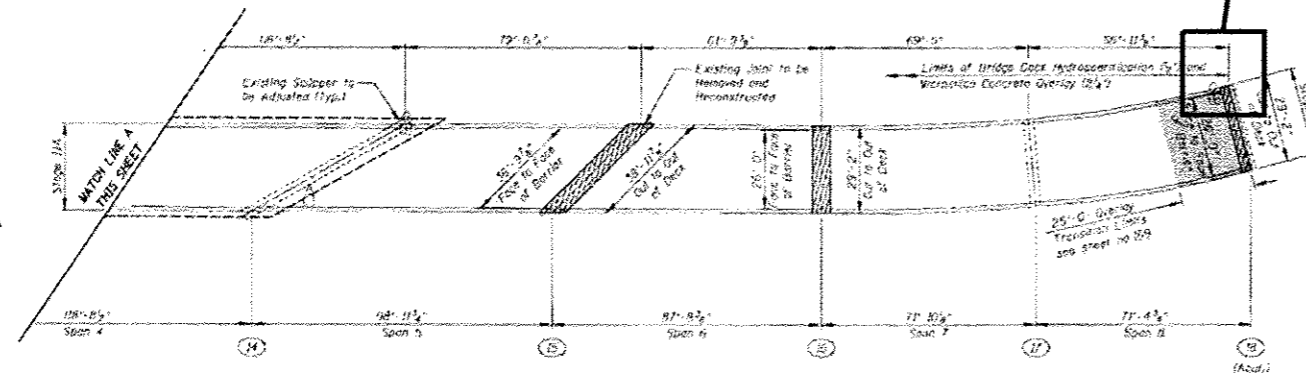
BILL OF MATERIAL (S. N. 016-1047)
I-55 WB RAMP TO NB DAN RYAN OVER ARCHER AVE.

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	1

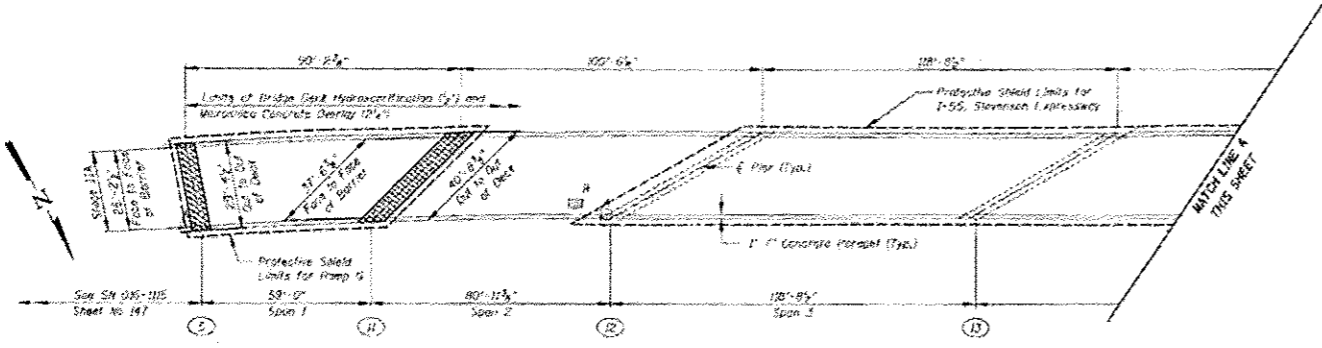


RAMP B

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



SN 016-1140 PARTIAL DECK PLAN



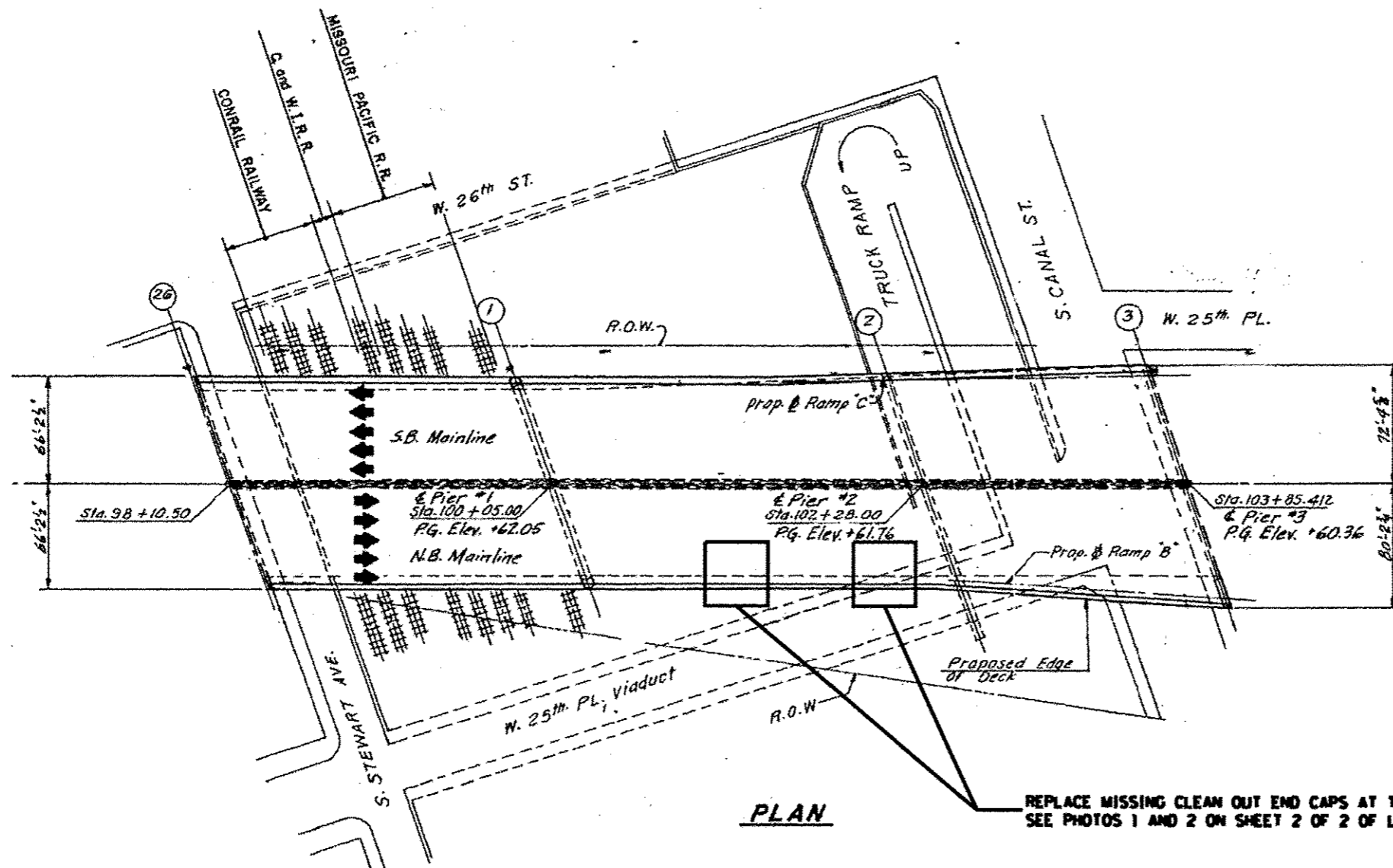
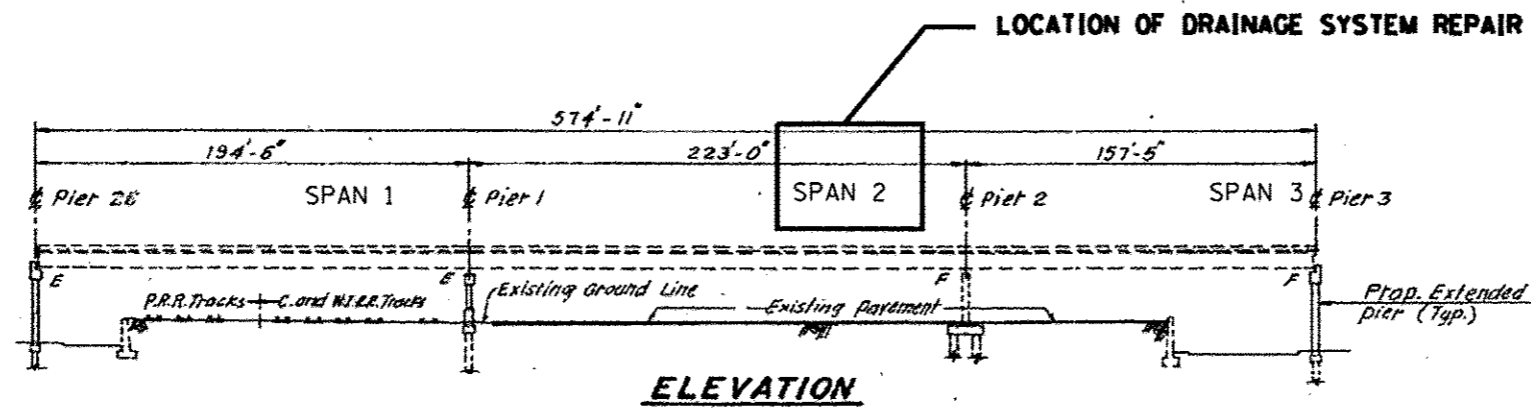
SN 016-1140 PARTIAL DECK PLAN



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



REPLACE MISSING CLEAN OUT END CAPS AT TWO LOCATIONS (2 LF)
SEE PHOTOS 1 AND 2 ON SHEET 2 OF 2 OF LOCATION 11 (SN 016-1116) SHEETS

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

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	2

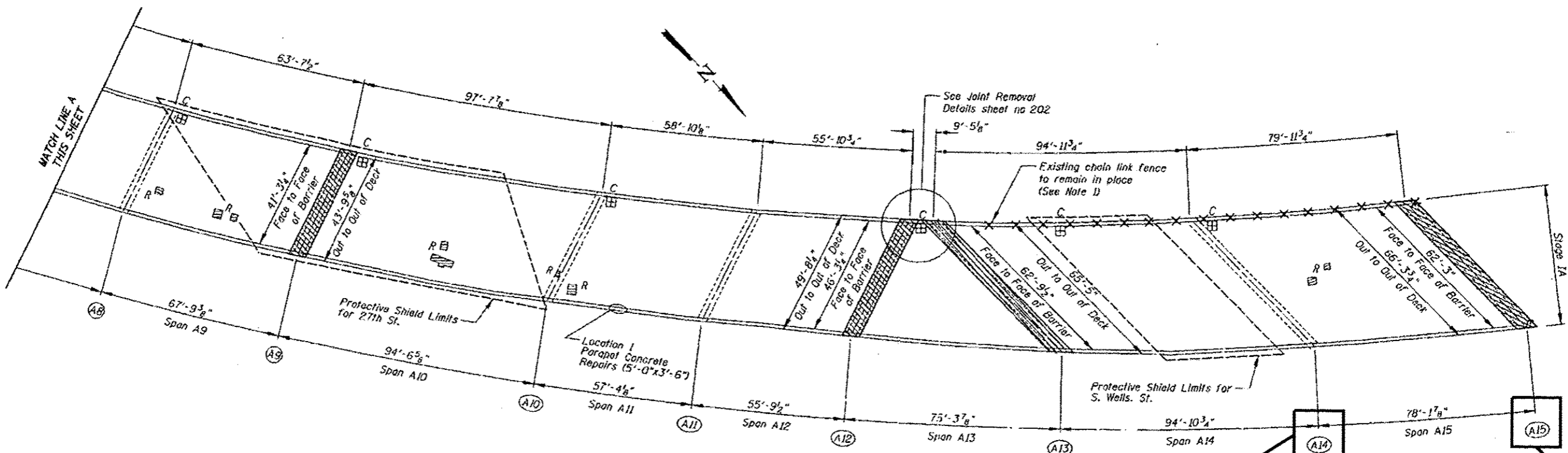


016-1116 PHOTO #1
 NORTH FASCIA BEAM
 SPAN 2 - WEST OF PIER 2



016-1116 PHOTO #2
 NORTH FASCIA BEAM - MID SPAN 2

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 11 (SN 016-1116) DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
Default							VAR.	2015-046T	COOK	81	40		
							CONTRACT NO. 62B12						
							ILLINOIS FED. AID PROJECT						
				SCALE:	SHEET 2	OF 2	SHEETS	STA.	TO STA.				

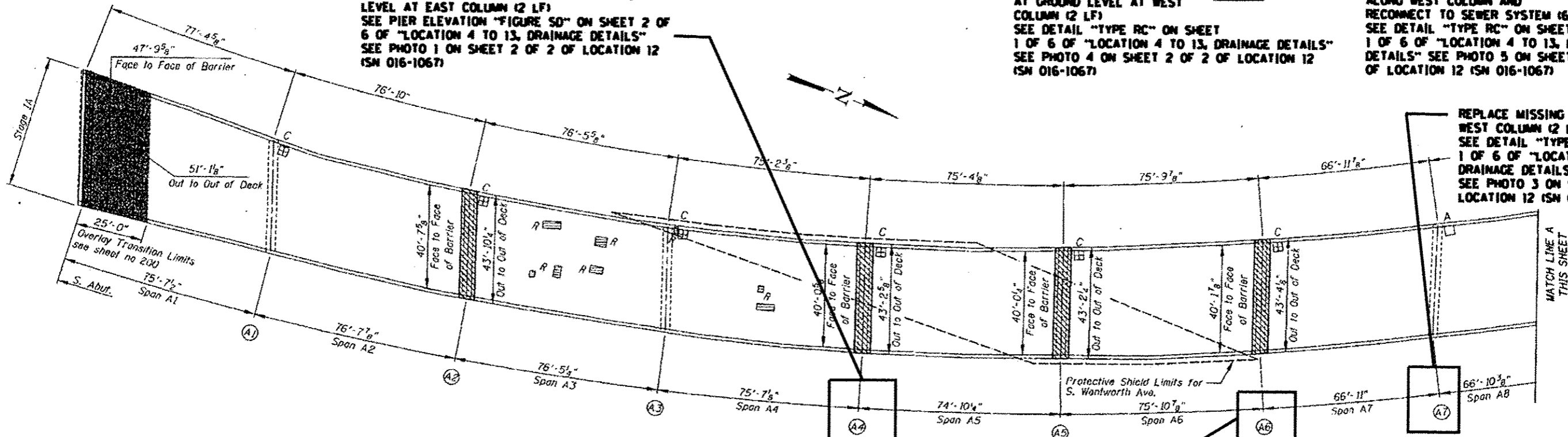


SN 016-1067 PARTIAL DECK PLAN

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



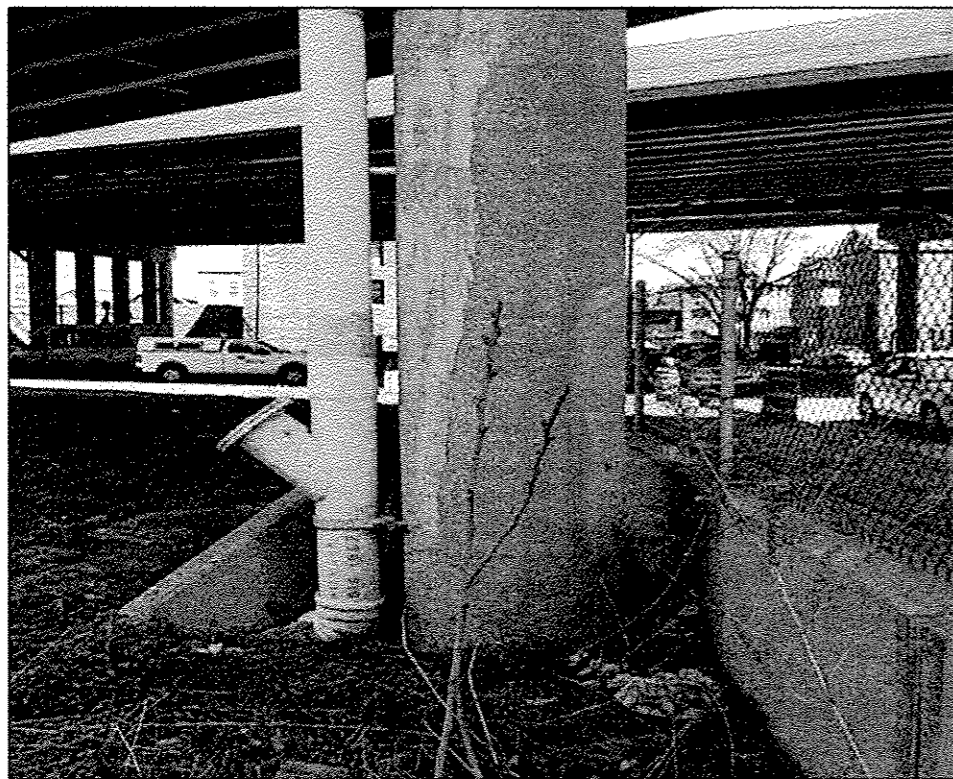
016-1067 PHOTO #1
PIER A4



016-1067 PHOTO #2
PIER A6



016-1067 PHOTO #3
PIER A7

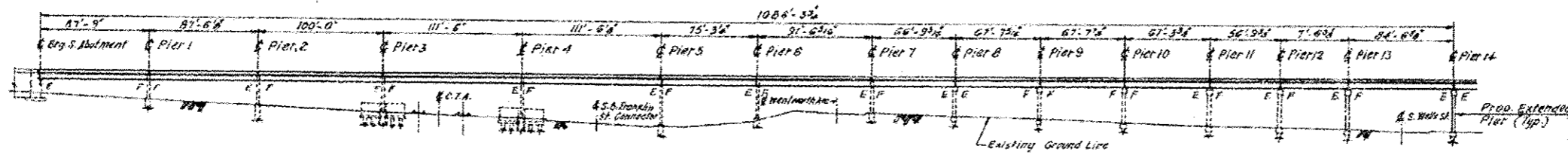


016-1067 PHOTO #4
SPAN A14

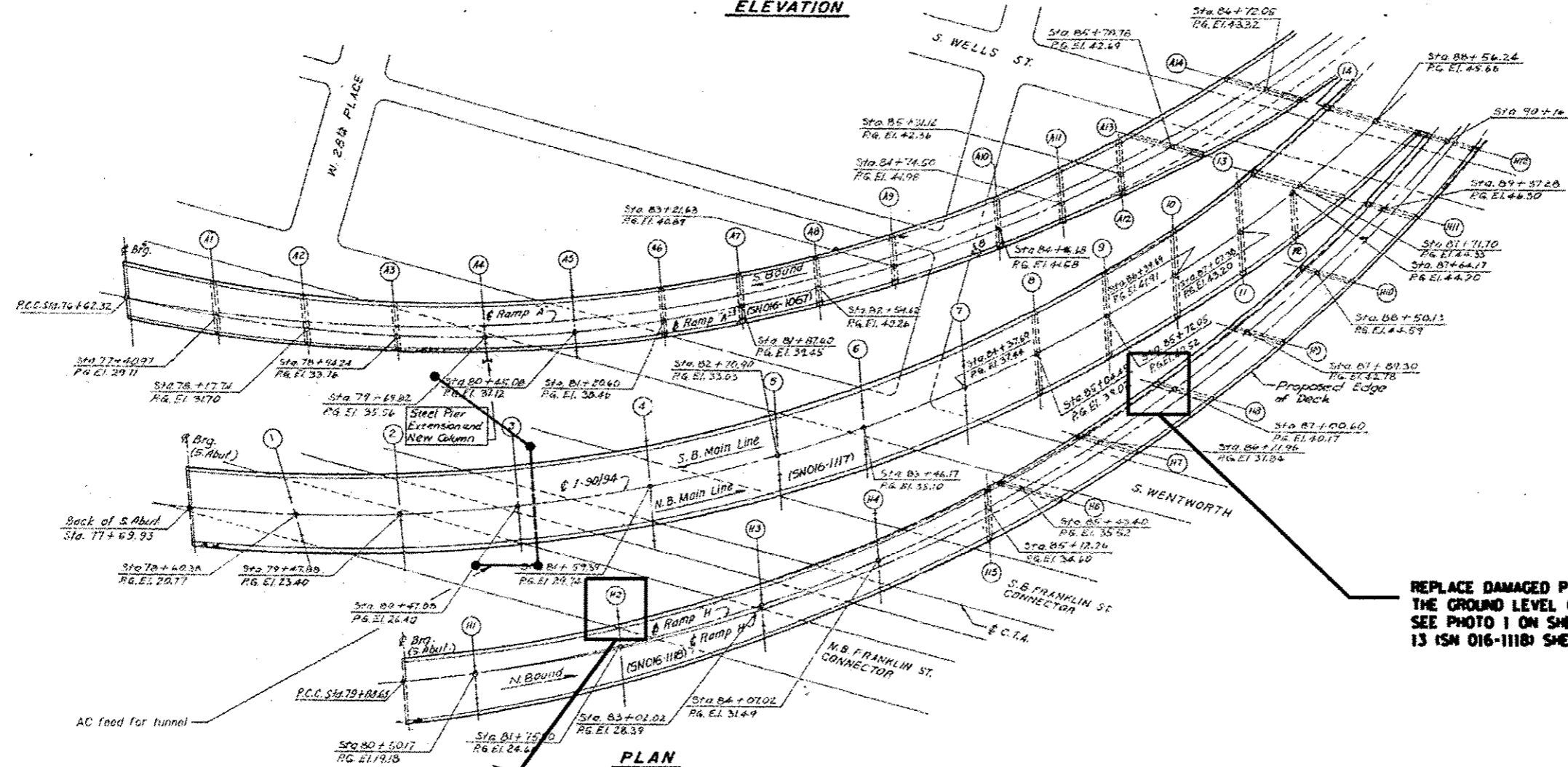


016-1067 PHOTO #5
SPAN A15

FILE NAME :	USER NAME : dahhanv	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 12 (SN 016-1067) DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pi\1\1084EBIDINTEG, Illinois.gov\PI\DOT\Documents\1007 Offices\District 1\Projects\01307\Drawings\Design\0130715-shr-LOCATIONS	DRAWN BY :	CHECKED -	REVISED -		VAR.	2015-046T	COOK	81	42			
Default	PLOT SCALE = 1/8" = 1'-0"	DATE -	REVISED -		CONTRACT NO. 62B12			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 7/15/2015				SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.				



ELEVATION



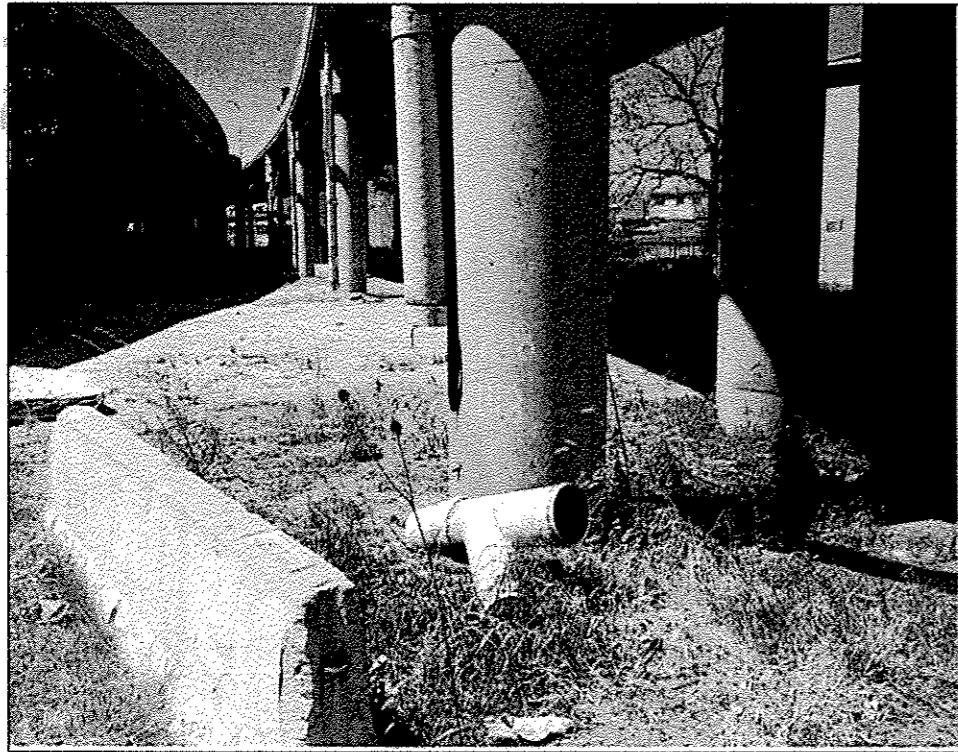
PLAN

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

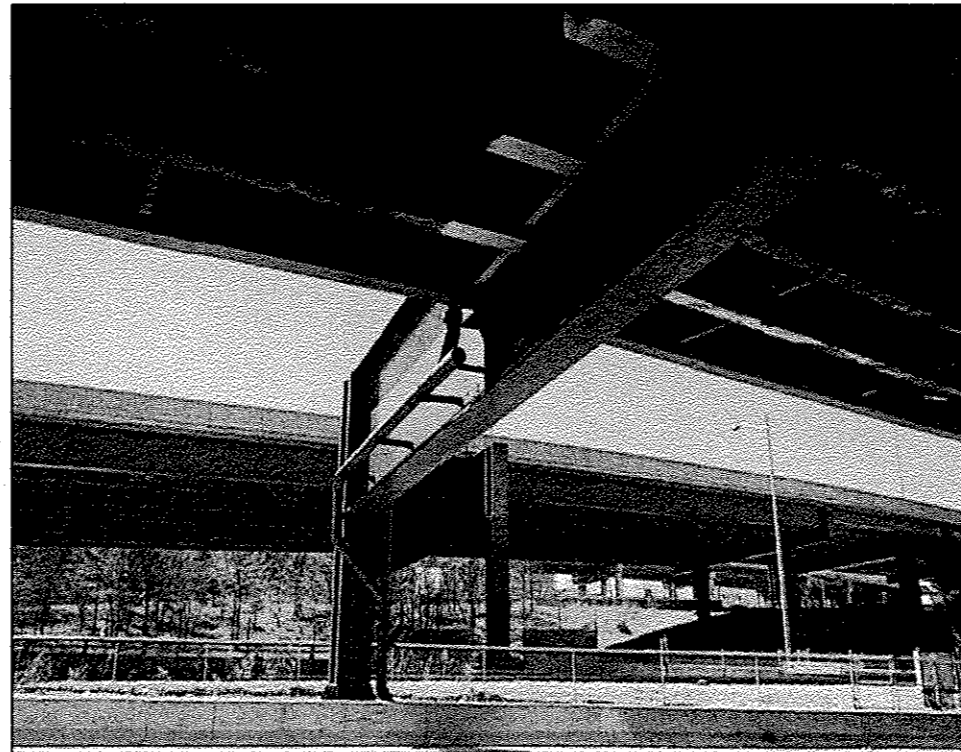
REPLACE MISSING CLEAN OUT CAP ON PIP'S END (1 LF)
SEE PHOTOS 2 AND 3 ON SHEET 2 OF 2 OF LOCATION 13 (SN 016-1118) SHEETS

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

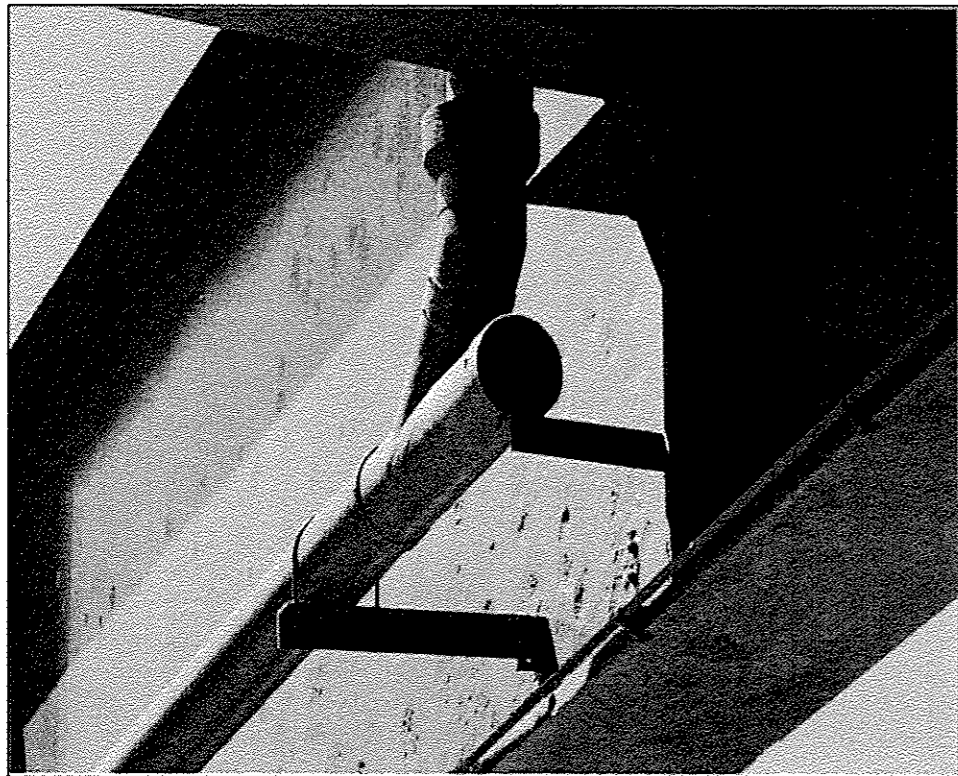
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	7



016-1118 PHOTO #1
PIER H8 _ WEST END

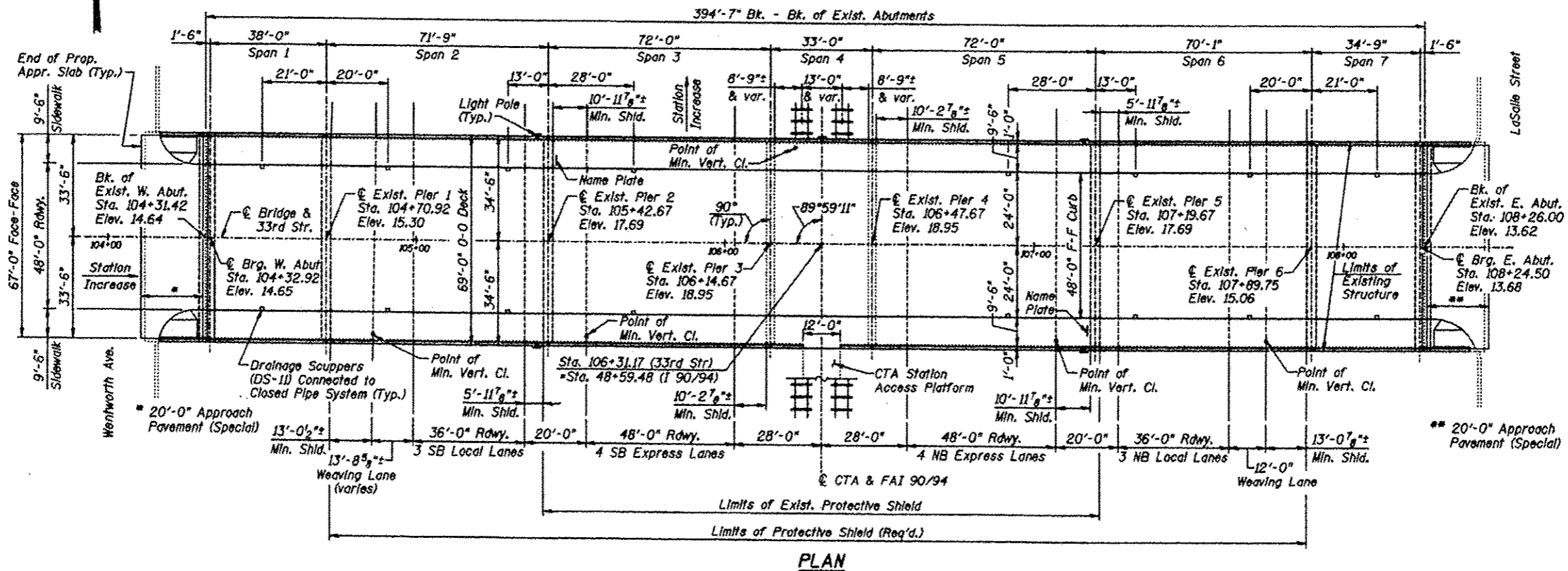
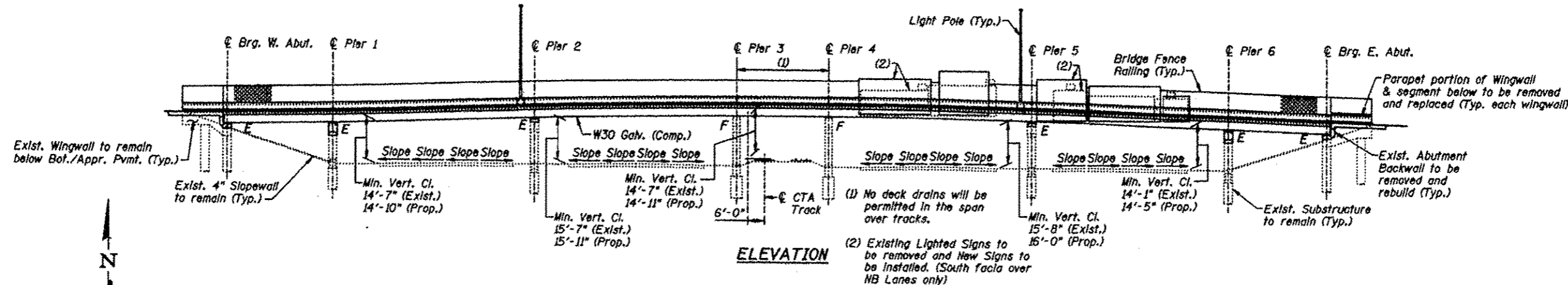


016-1118 PHOTO #2
PIER H2 _ SOUTH FACE



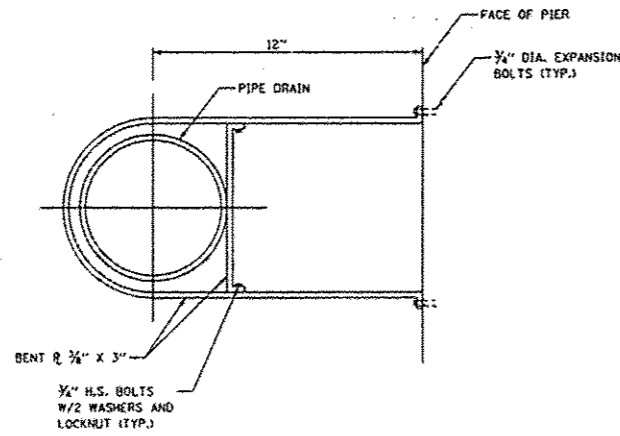
016-1118 PHOTO #3
PIER H2 _ SOUTH FACE

FILE NAME :	USER NAME : dahhan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 13 (SN 016-1118) DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default	Default	DATE -	REVISED -				VAR.	2015-046Y	COOK	81	44
		CHECKED -	REVISED -		SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.		CONTRACT NO. 62B12				
		PLOT DATE : 7/15/2015	REVISED -		ILLINOIS FED. AID PROJECT						

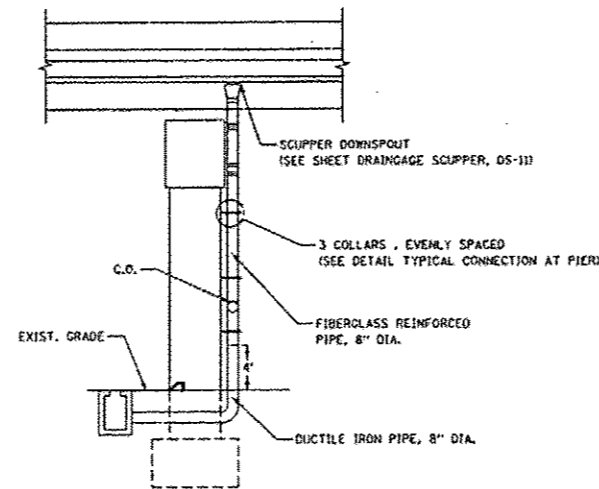


**BILL OF MATERIAL (S.N. 016-1158)
 33RD ST OVER DAN RYAN AND CTA**

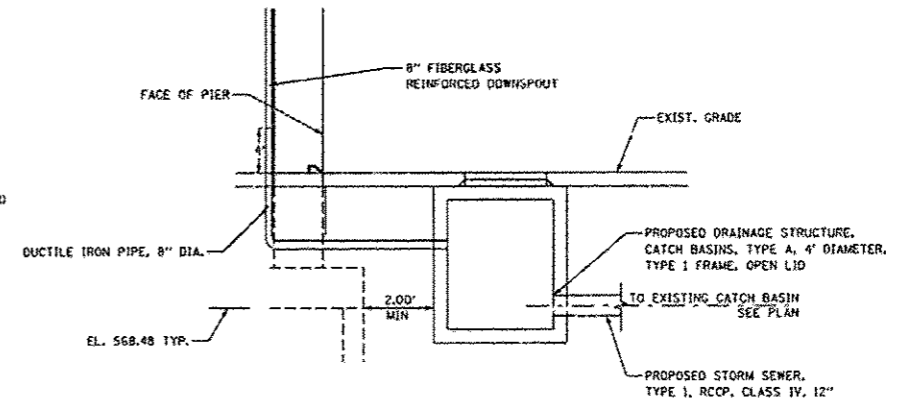
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	5



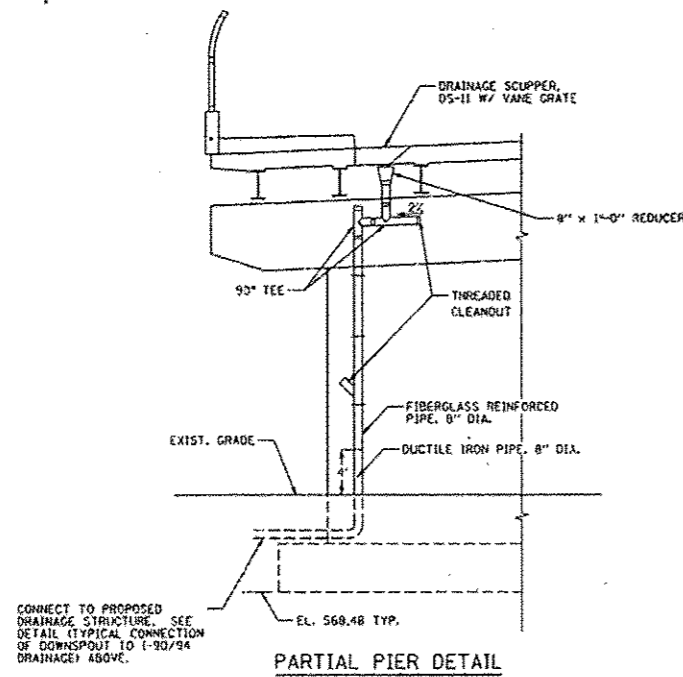
DETAIL (CONNECTION AT PIER)



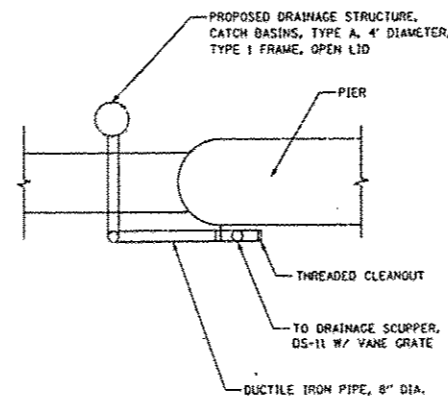
END VIEW



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



PARTIAL PIER DETAIL



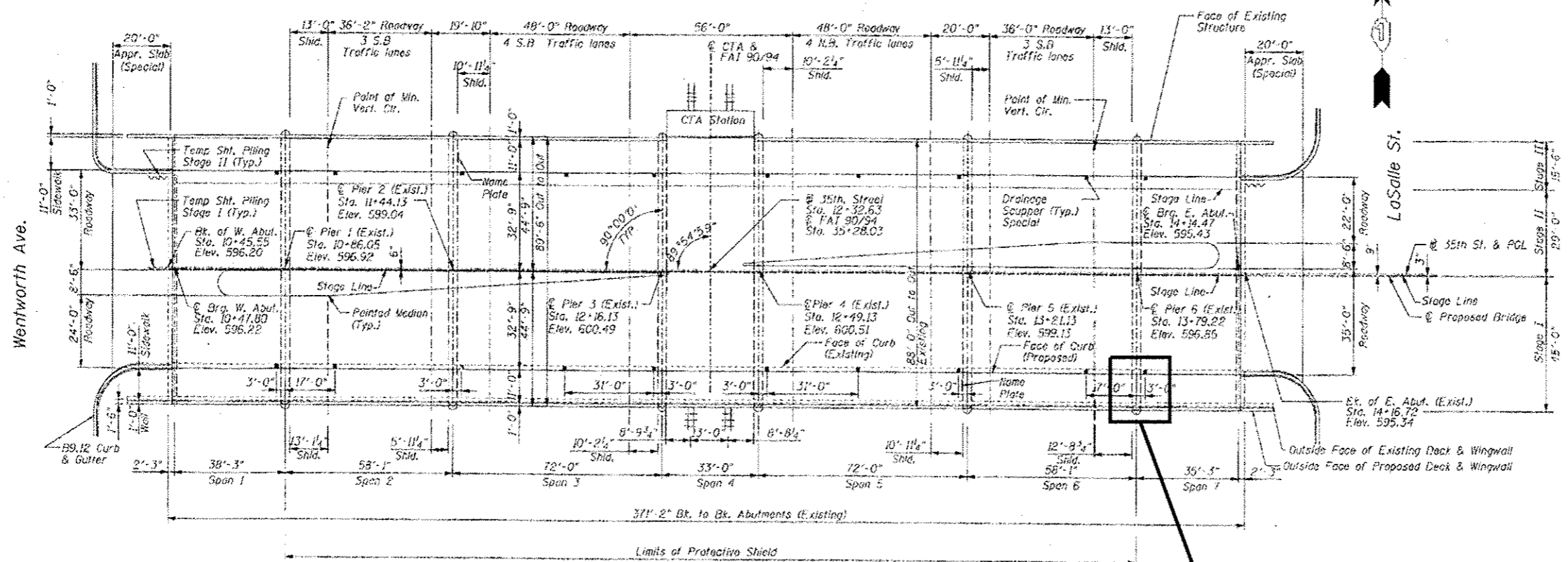
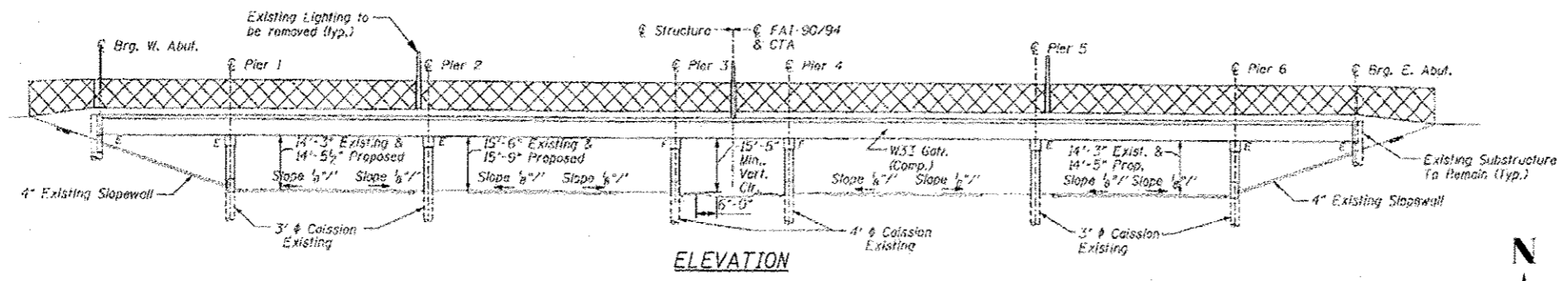
PLAN VIEW

FOR INFORMATION ONLY



016-1158 PHOTO #
PIER 6 _ SOUTH END

FILE NAME :	USER NAME : dahhar	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 14 (SN 016-1158) DRAINAGE DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Documents\DOT Offices\District 1\Projects\0138715-14-LOCATIONS	Documents\DOT Offices\District 1\Projects\0138715-14-LOCATIONS	CHECKED -	REVISED -		SCALE:	SHEET 3 OF 3 SHEETS	STA.	2015-046T	COOK	81	47
Default	PLOT DATE = 7/15/2015	DATE -	REVISED -		TO STA.						
								CONTRACT NO. 62B12 ILLINOIS FED. AID PROJECT			

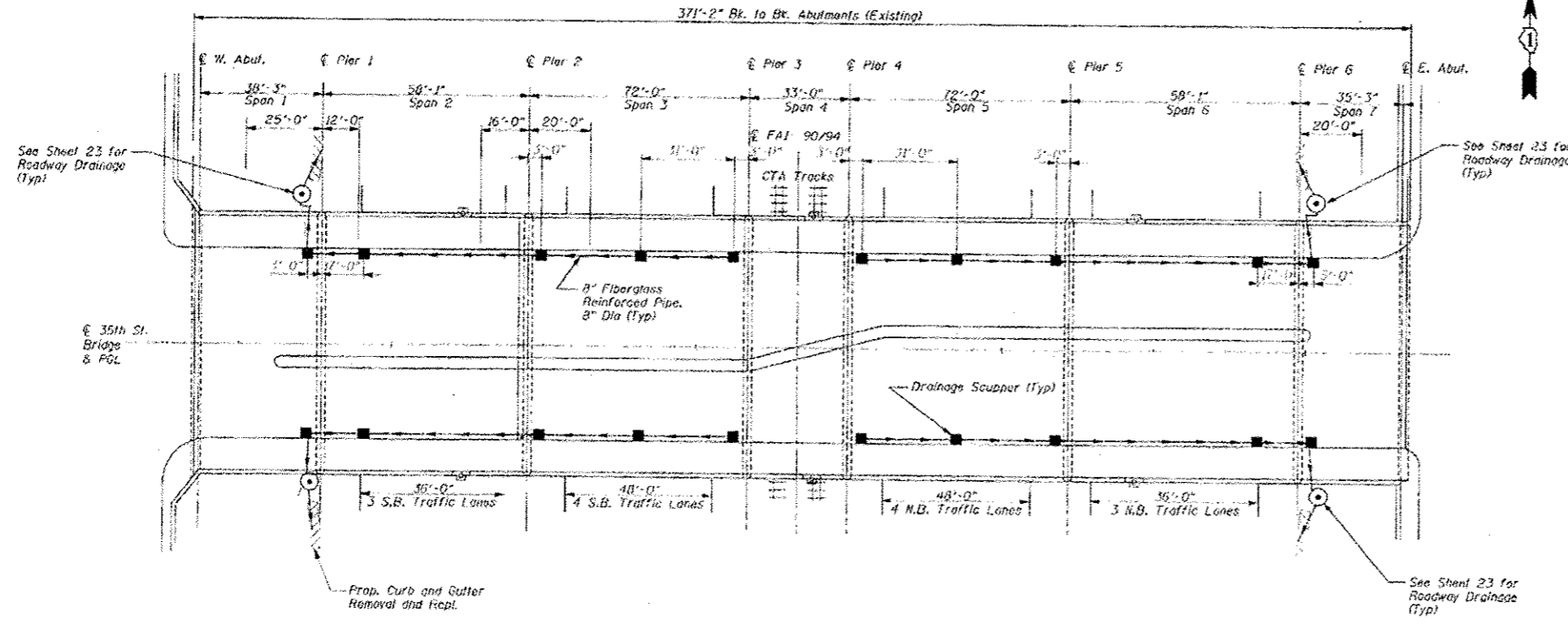


Note: Partial Protective Shield is currently in place. Contractor shall adjust or maintain shielding to meet specifications, see general notes sheet S2.

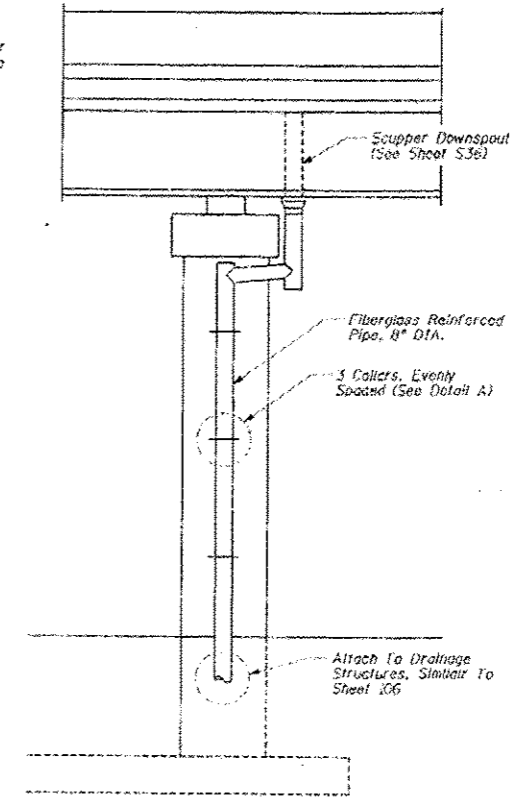
REPLACE MISSING CLEAN OUT AND CAP ON PIPE'S END (2 LF)
SEE DRAINAGE DETAILS AND PHOTO 1 ON SHEET 2 OF 2 OF
LOCATION 15 (SN 016-1160) SHEETS

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

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	2

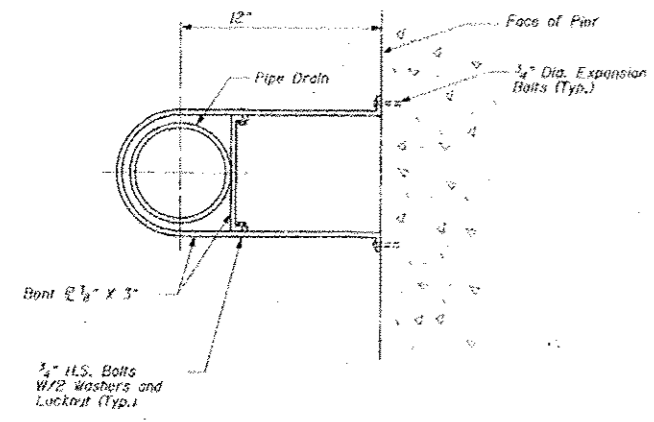


PLAN

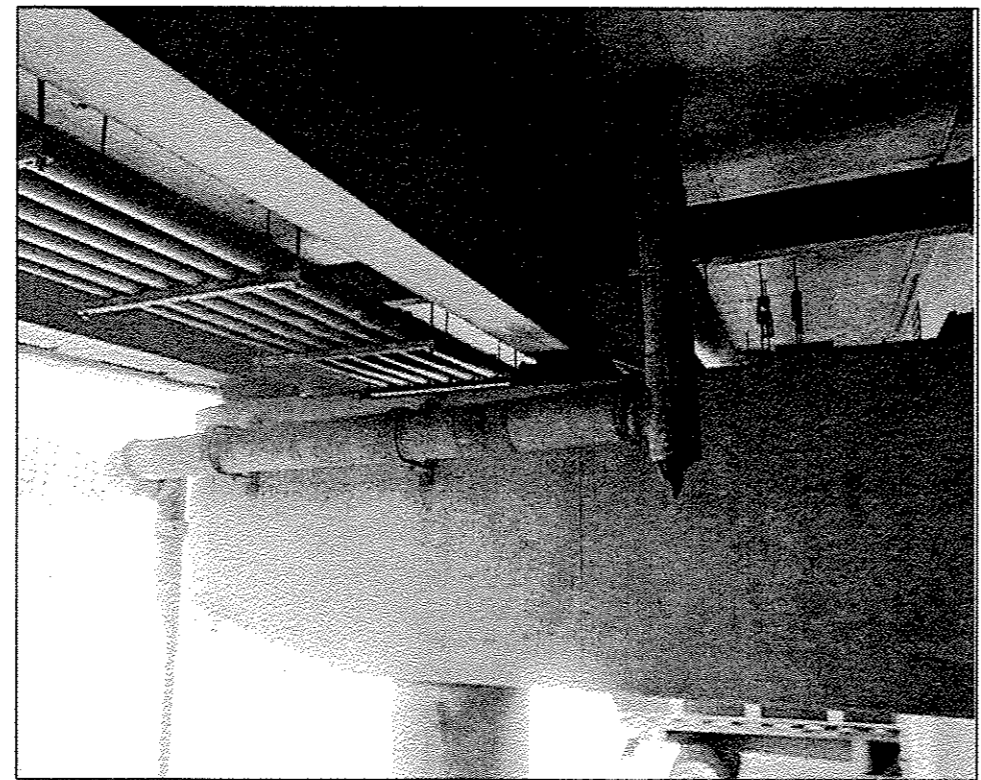


END VIEW
At Pier

FOR INFORMATION ONLY



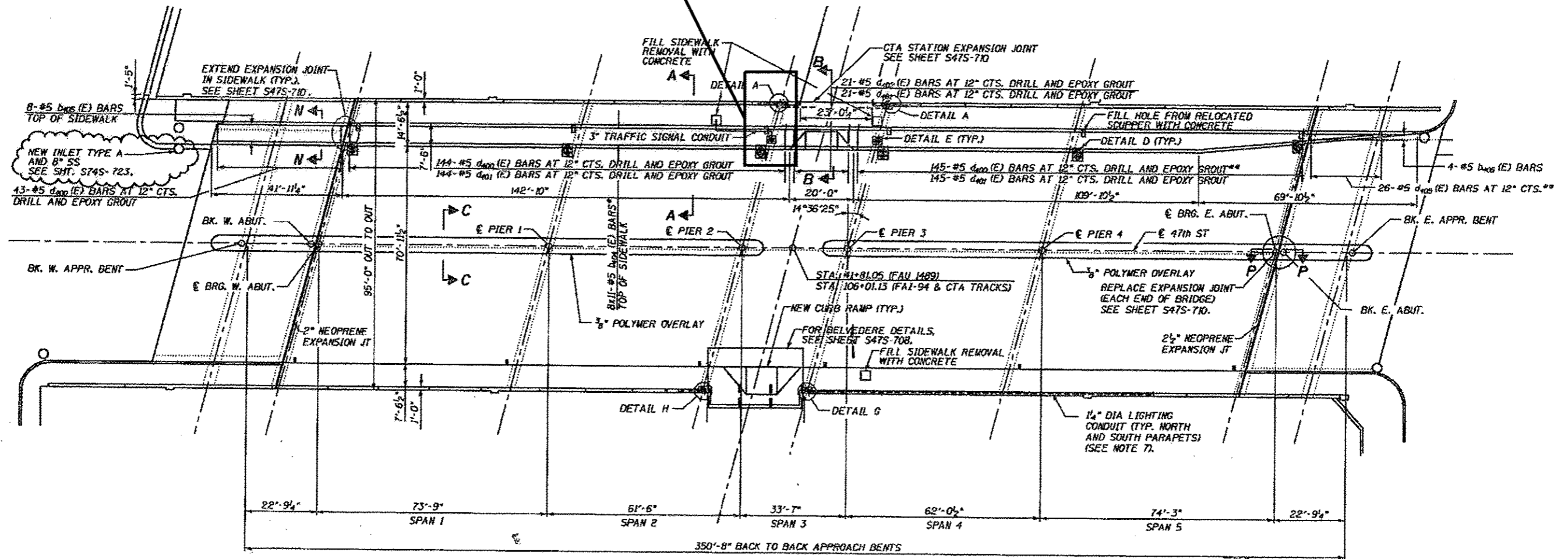
DETAIL A
Connection at Pier



016-1160 PHOTO #1
SOUTH END OF PIER 6

FILE NAME =	USER NAME = dahhan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 15 (SN 016-1160) DRAINAGE DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pu\1\1084EBIDINTEG.illinois.gov\PIWIDOT\Do	uments\DDOT Offices\District 1\Projects\DI387	ORANGE	ORANGE		VAR.	2015-046T	COOK	81	49		
Default	PLOT SCALE = 100.0000 / in.	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.		

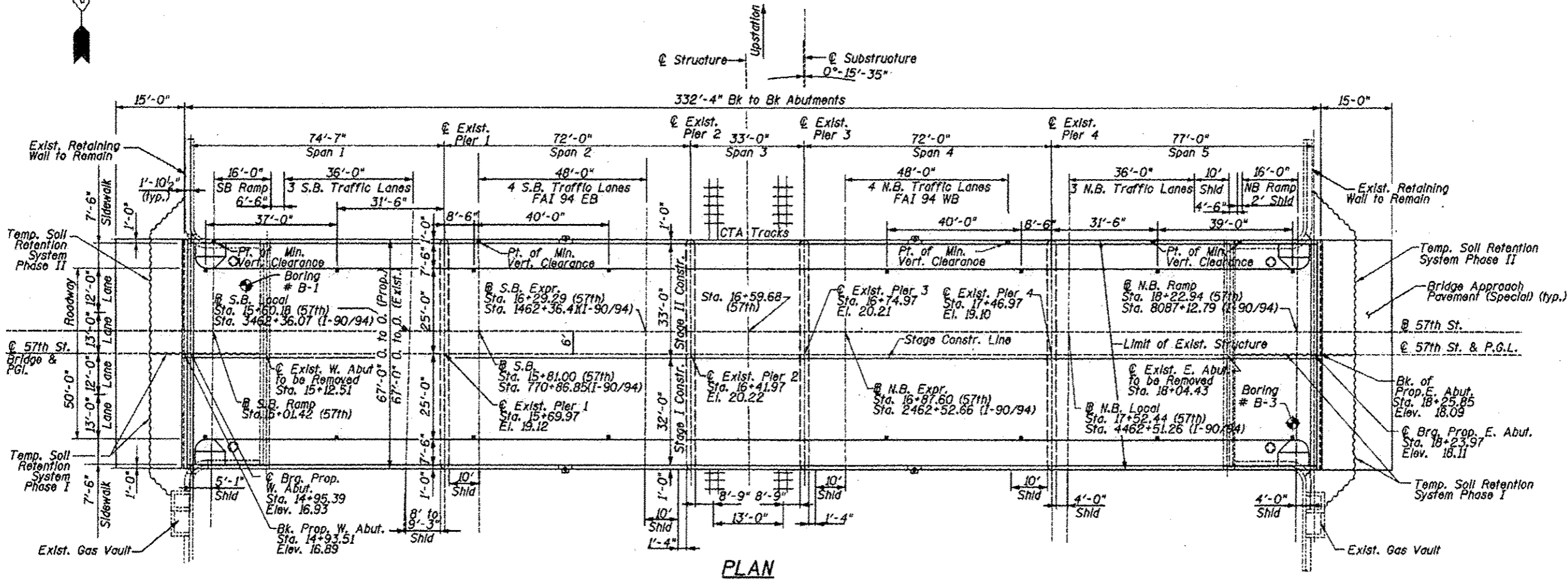
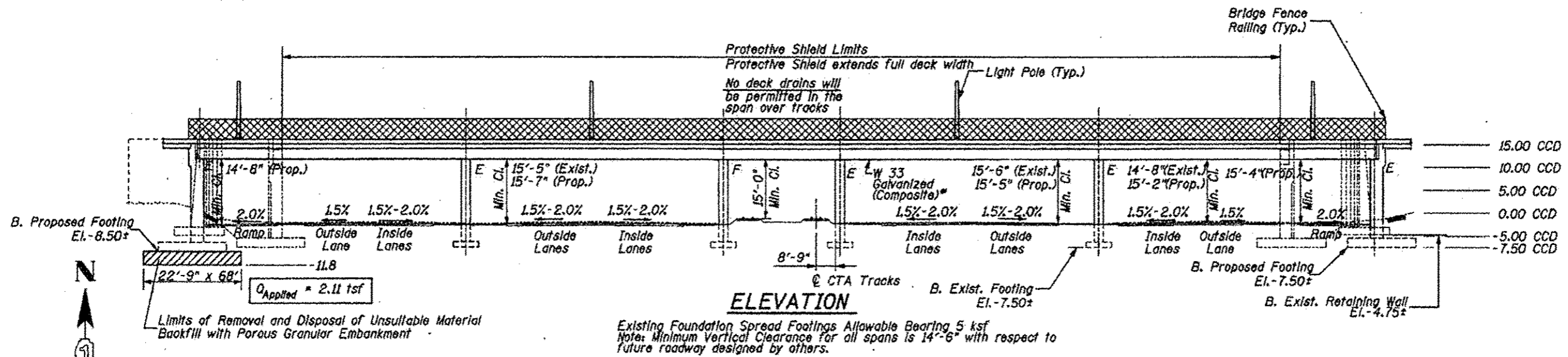
REPLACE DAMAGED/MISSING PIPE (5 LF)
SEE DRAINAGE DETAILS AND PHOTO 1 ON
SHEET 2 OF 2 OF LOCATION 16 (SN 016-1156) SHEETS



PLAN

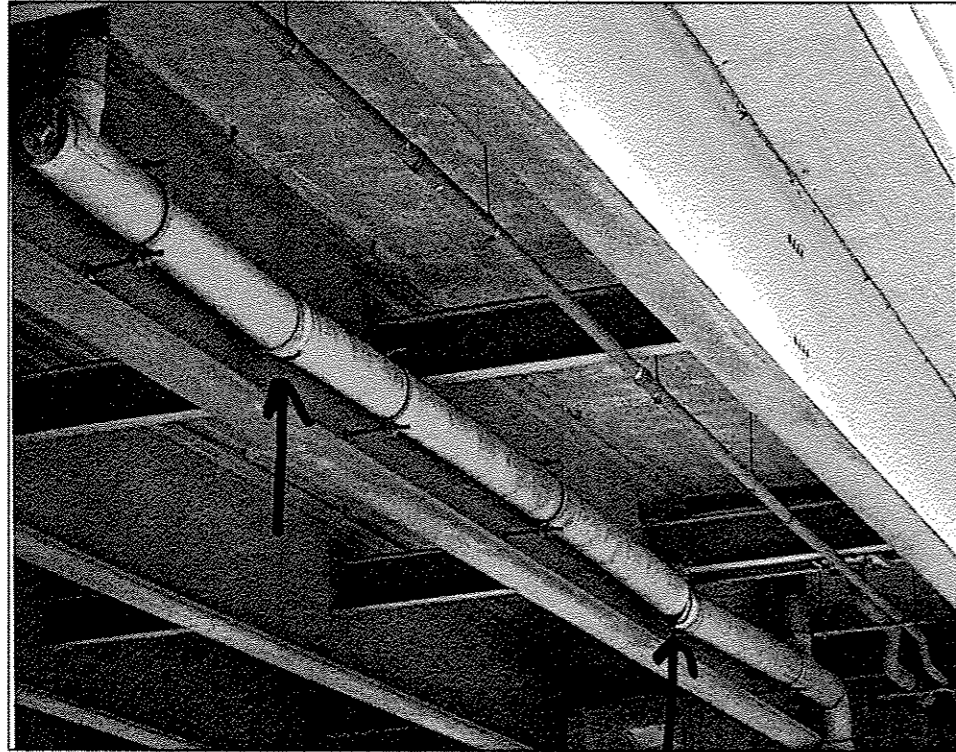
BILL OF MATERIAL (S.N. 016-1156)
47TH ST OVER DAN RYAN

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	5



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

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	45

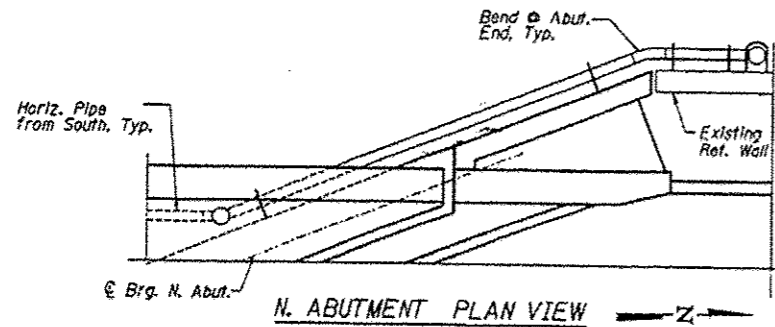


016-1151 PHOTO #1
SPAN 1



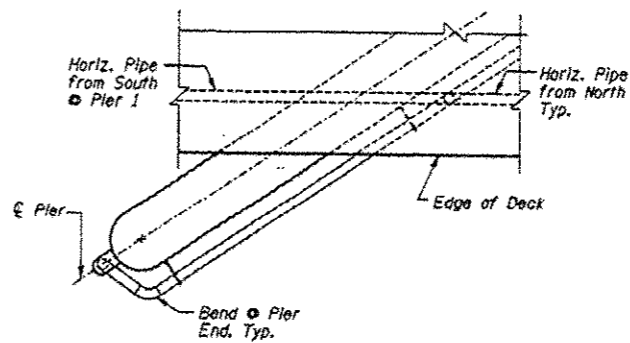
016-1151 PHOTO #2
PIER 1 _ SOUTH END

FILE NAME =	USER NAME = dahhan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 17 (SN 016-1151) DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1151\016-1151\INTEG\Illinois.gov\PIWIDOT\Documents\1001 Offices\District 1\Projects\DI307\Drawings\Design\0138715-1151-LOCATIONS	REVISOR =	DATE =	DATE =				VAR.	2015-046T	COOK	81	54
Default	PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -		SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.		CONTRACT NO. 62B12				
	PLOT DATE = 7/15/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT						

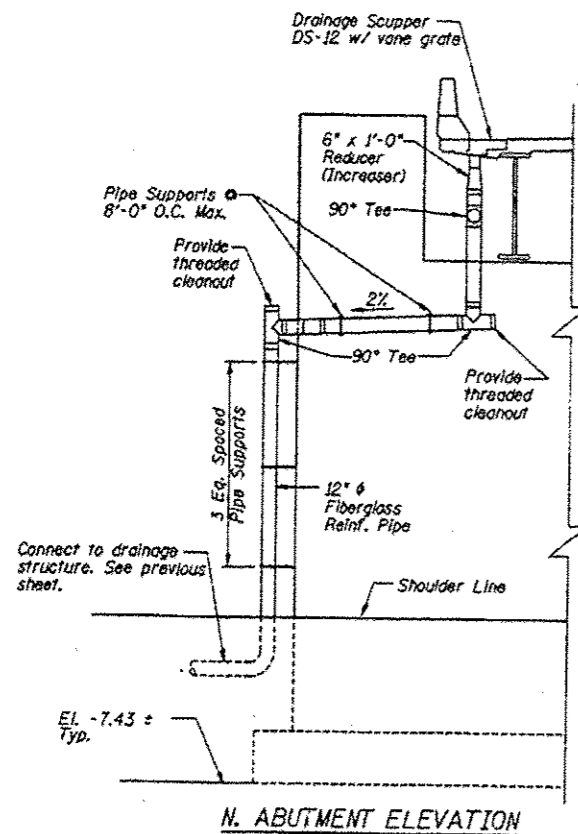


Notes:

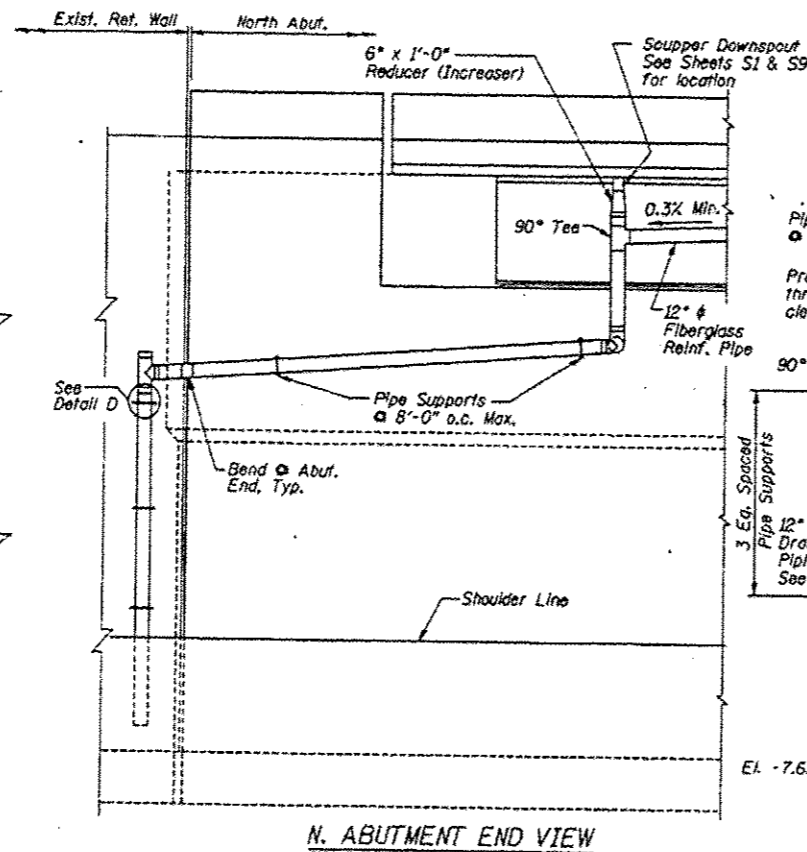
1. Fiberglass reinforced pipe, ductile iron pipe, cleanouts, supports & fittings from the downspout to the drainage structure is included in the pay item - Drainage System.
2. All horizontal drainage piping attached to bridge at deck shall be 12" ϕ Fiberglass Reinf. Pipe broced as shown in Detail C at 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.



PIER PLAN VIEW

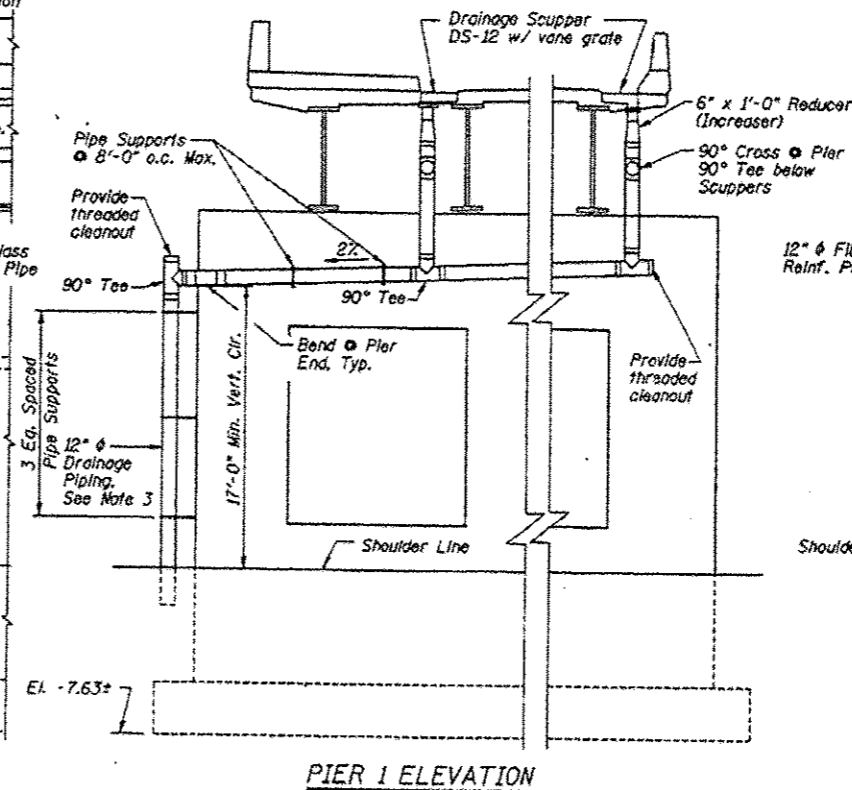


N. ABUTMENT ELEVATION



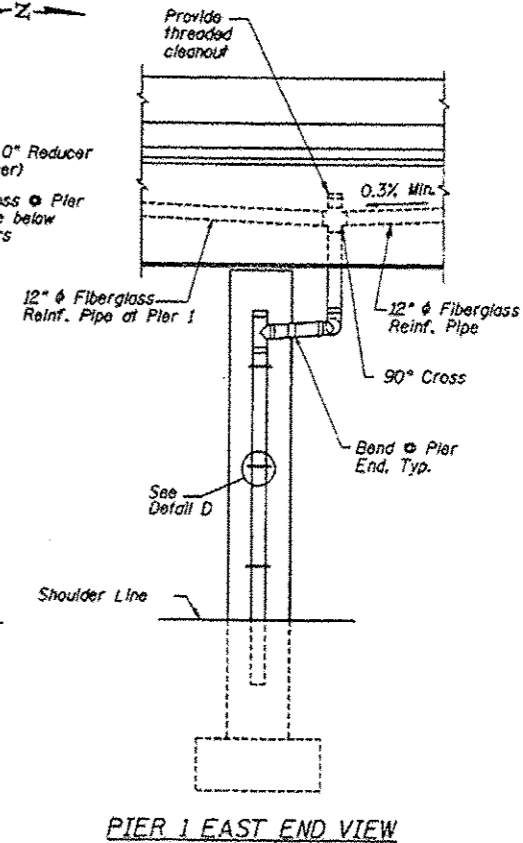
N. ABUTMENT END VIEW

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

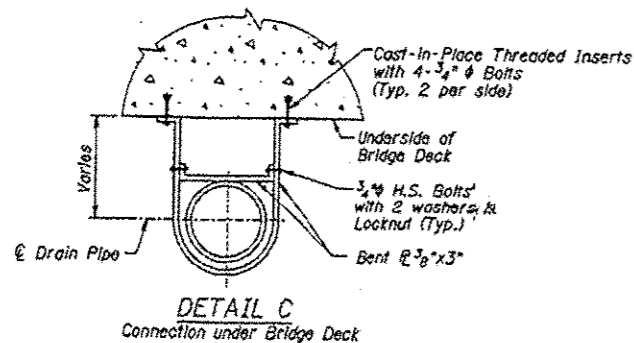


PIER 1 ELEVATION

PIPING DETAILS

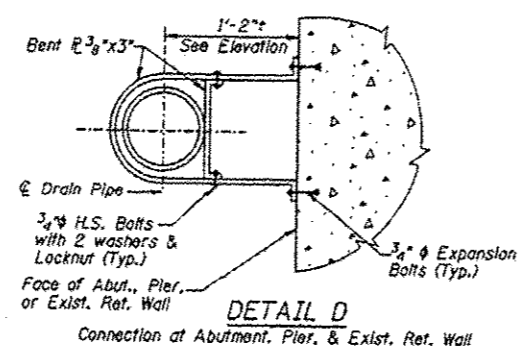


PIER 1 EAST END VIEW



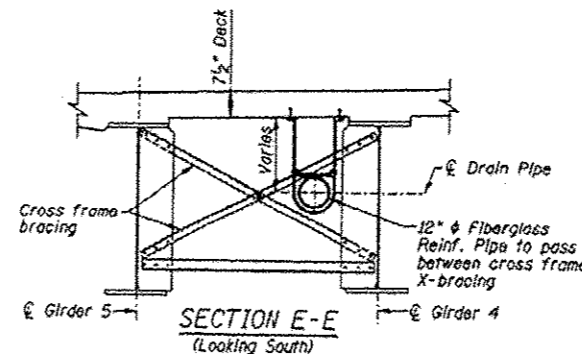
DETAIL C

Connection under Bridge Deck



DETAIL D

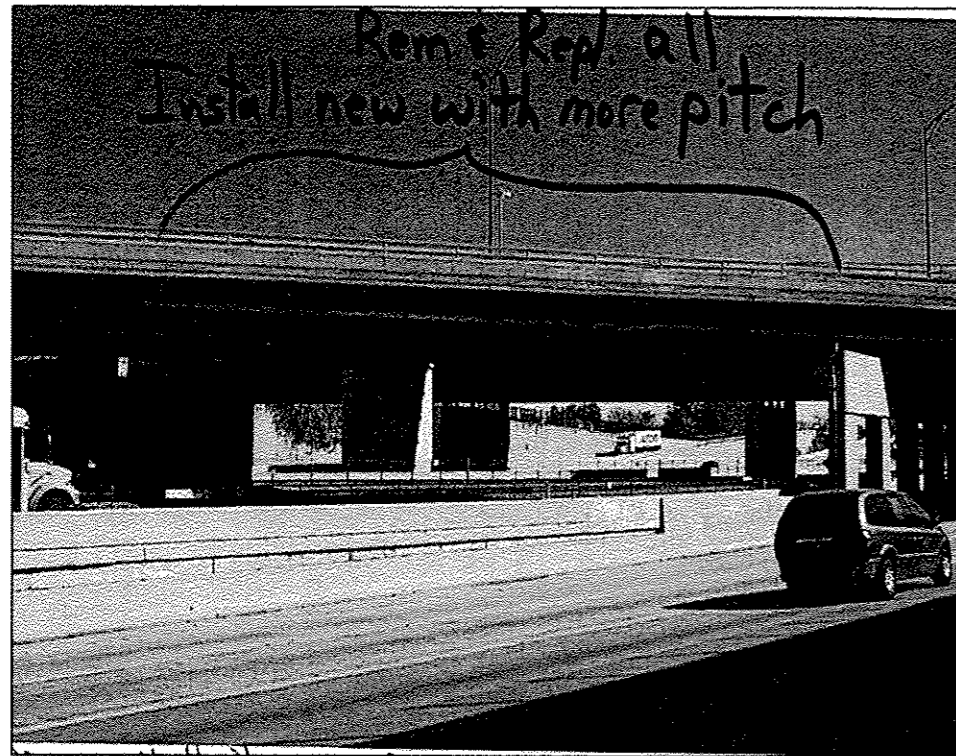
Connection at Abutment, Pier, & Exist. Ret. Wall



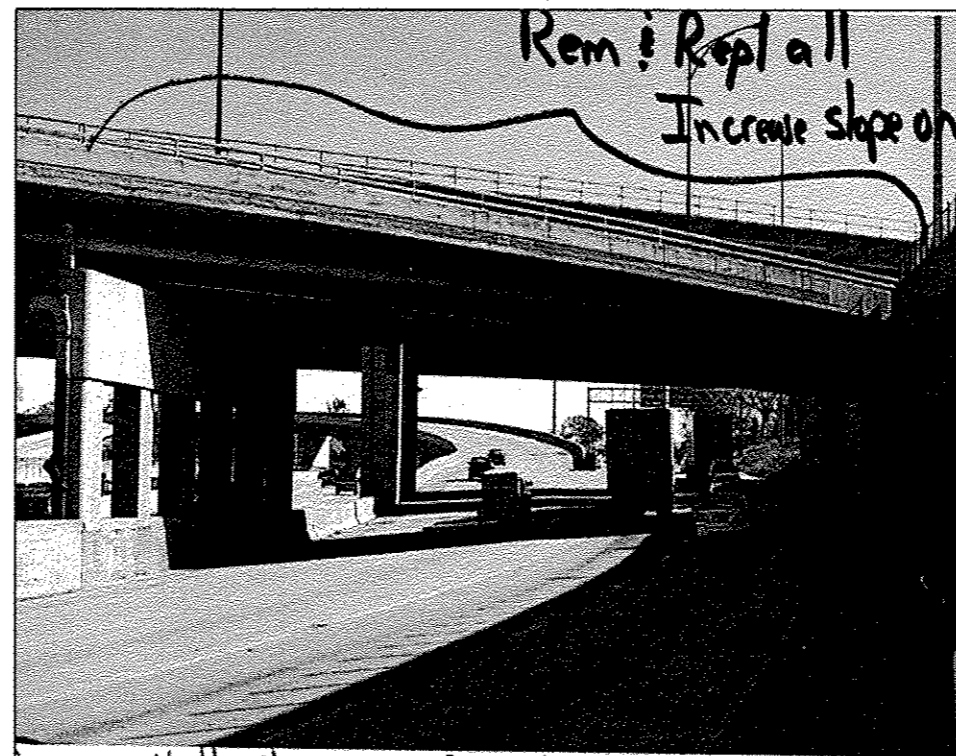
SECTION E-E (Looking South)

FOR INFORMATION ONLY

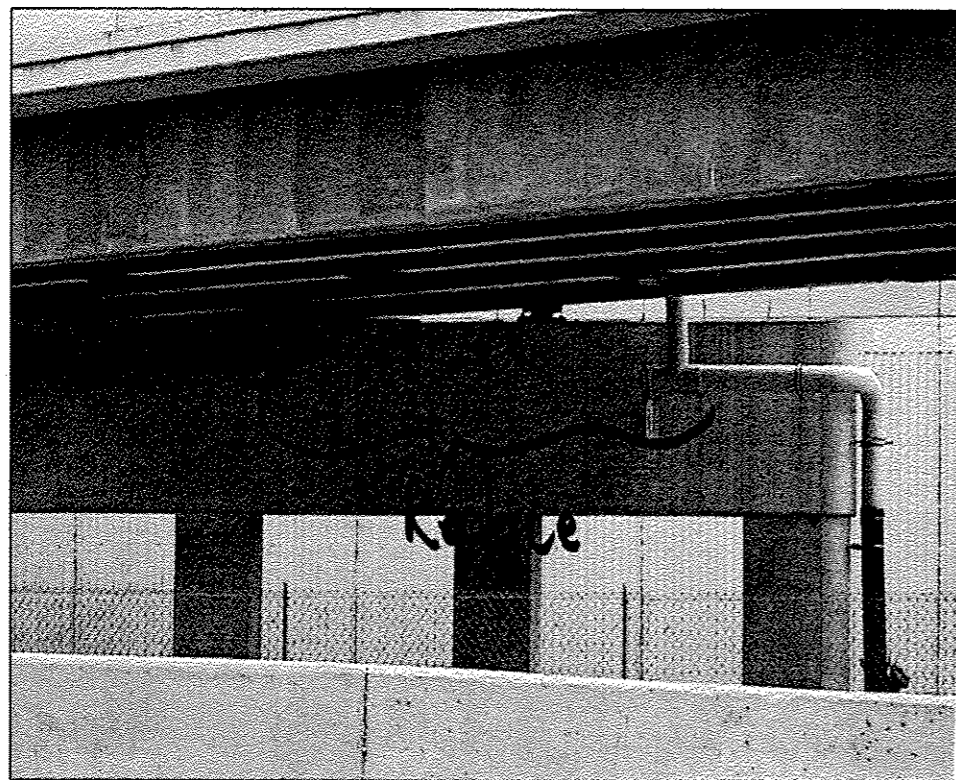
FILE NAME =	USER NAME = dehanv	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 18 (SN 016-1007) DRAINAGE DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\N\LB94E8IDINTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\DI367\BROWData\Design\DI36715-shr-LOCATIONS	DESIGNED BY	REVISED BY	VAR.			2015-046T	COOK	81	58	
Plot Scale = 1/8" = 1'-0"	CHECKED -	REVISED -	CONTRACT NO. 62B12							
Plot Date = 7/15/2015	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
Default				SCALE:	SHEET 4 OF 5 SHEETS	STA.	TO STA.			



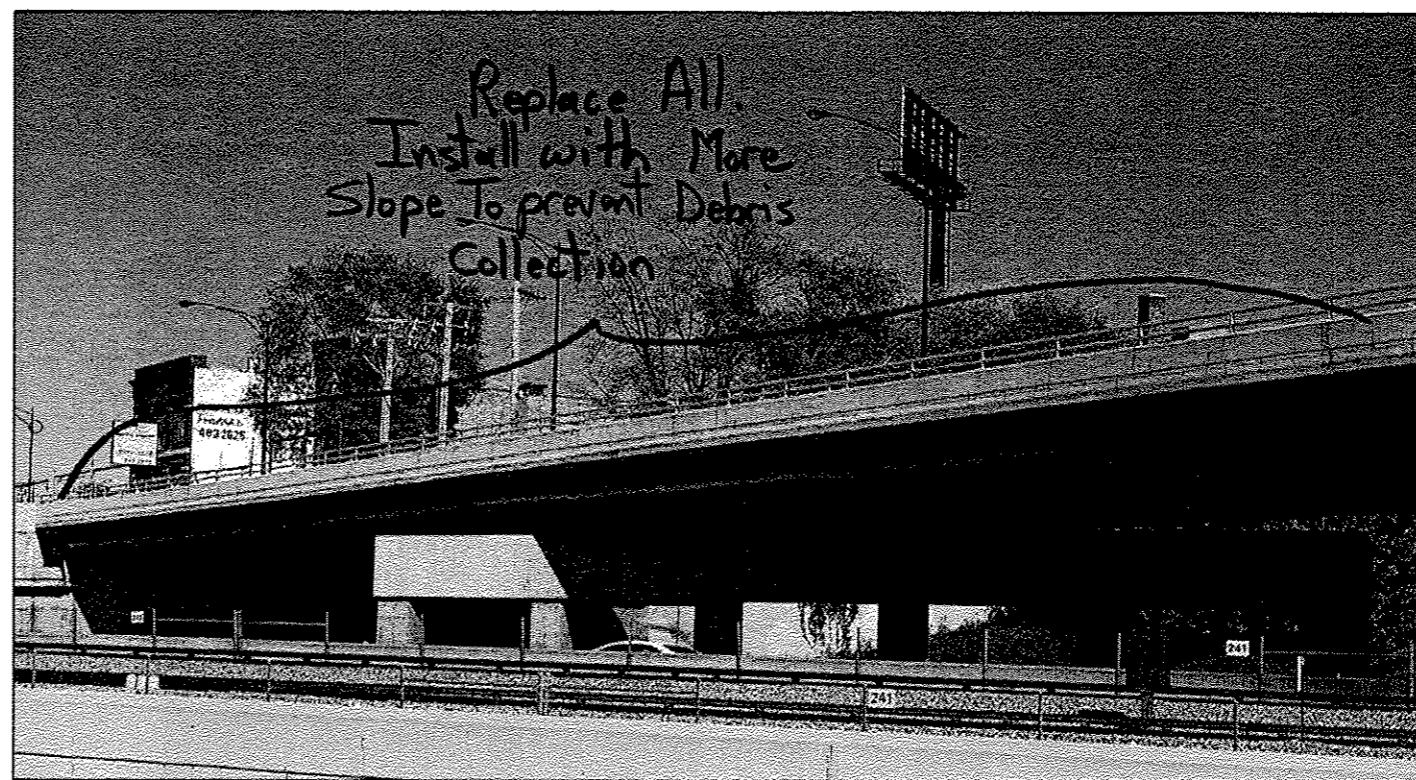
016-1007 PHOTO #1
SECTION OVER DAN RYAN SB EXPRESS LANES _ LOOKING EAST



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

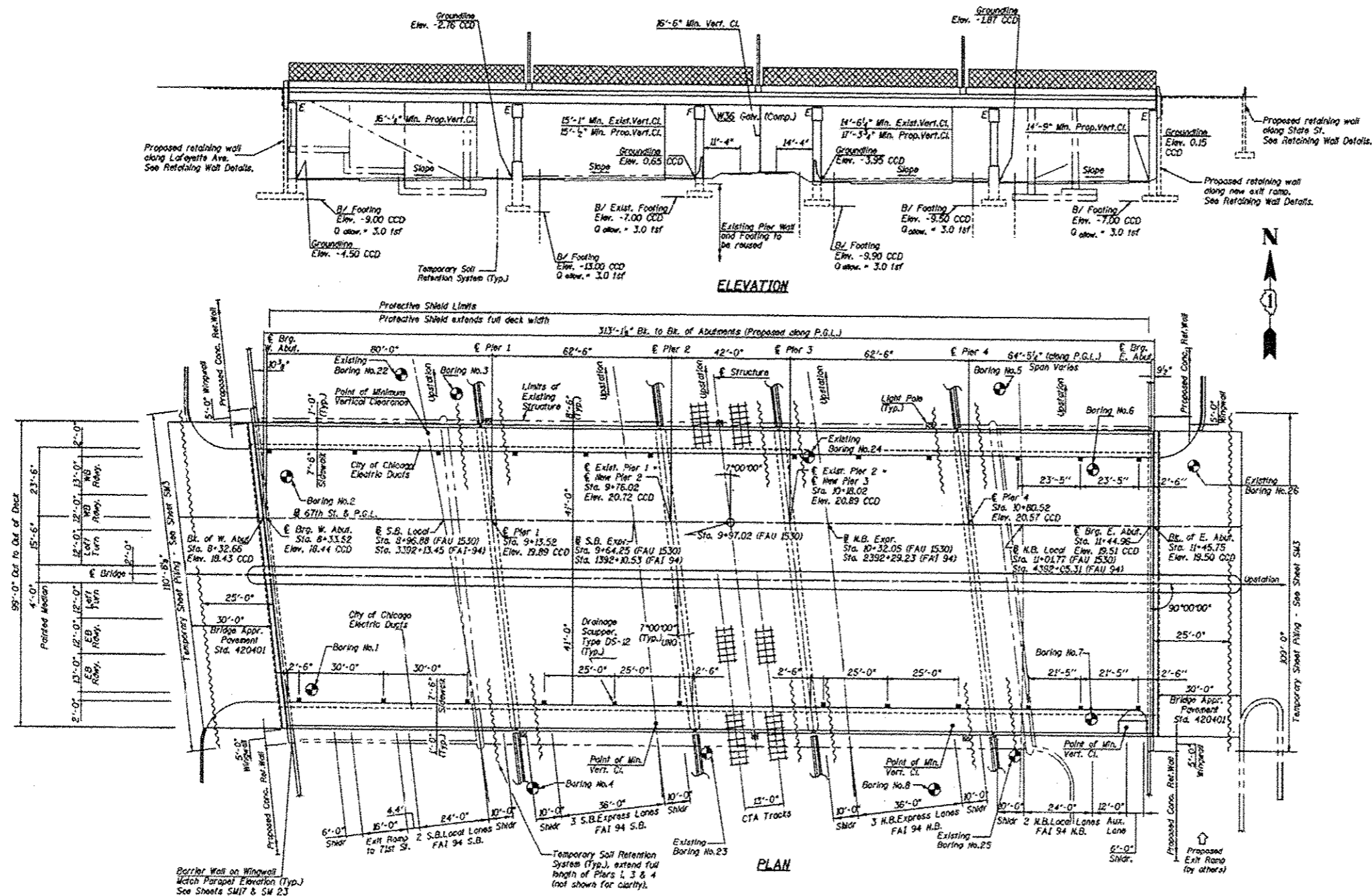


016-1007 PHOTO #3
PIER 1 _ NORTH FACE



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

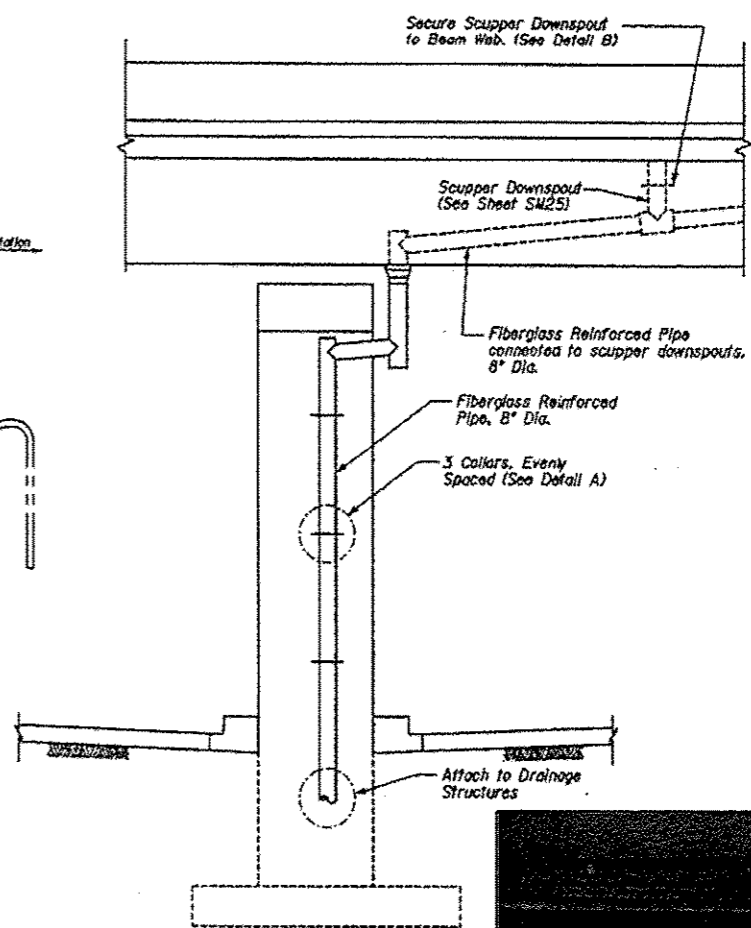
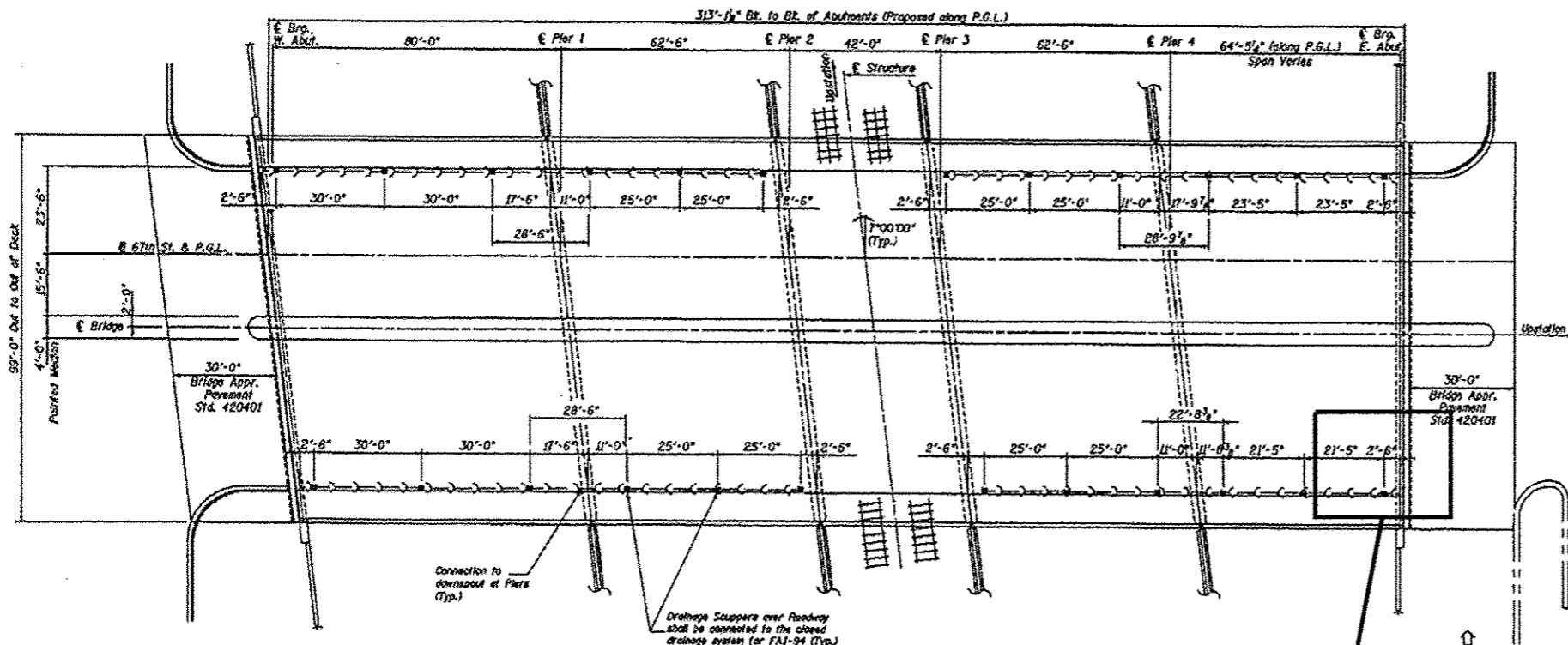
FILE NAME =	USER NAME = dshharr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 18 (SN 016-1007) DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Default	DATE -	REVISED -				VAR.	2015-046T	COOK	81	59	
		CHECKED -	REVISED -		SCALE:	SHEET 5	OF 5	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	
		REVIEWED -	REVISED -									



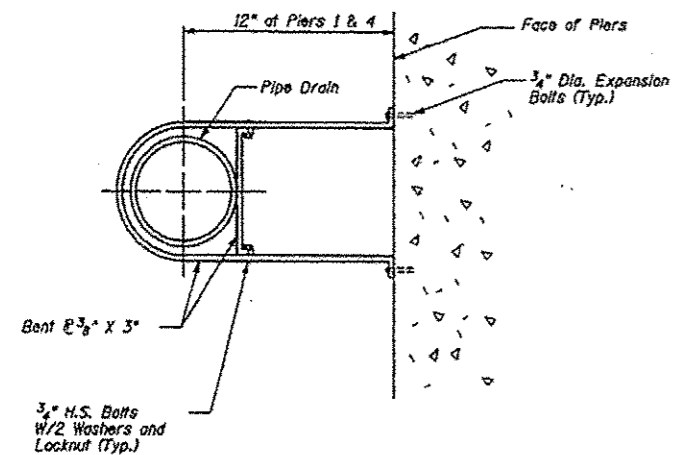
BILL OF MATERIAL (S.N. 016-1147)
67TH ST. OVER DAN RYAN

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	15

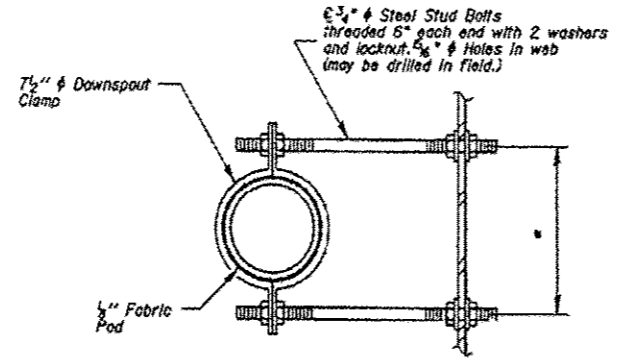
FILE NAME >	USER NAME = dshen	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 19 (SN 016-1147) GENERAL PLAN AND ELEVATION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Default	CHECKED -	REVISED -			VAR.	2015-046T	COOK	81	60	
	PLOT DATE = 7/15/2015	DATE -	REVISED -			CONTRACT NO. 62B12					
						ILLINOIS FED. AID PROJECT					



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



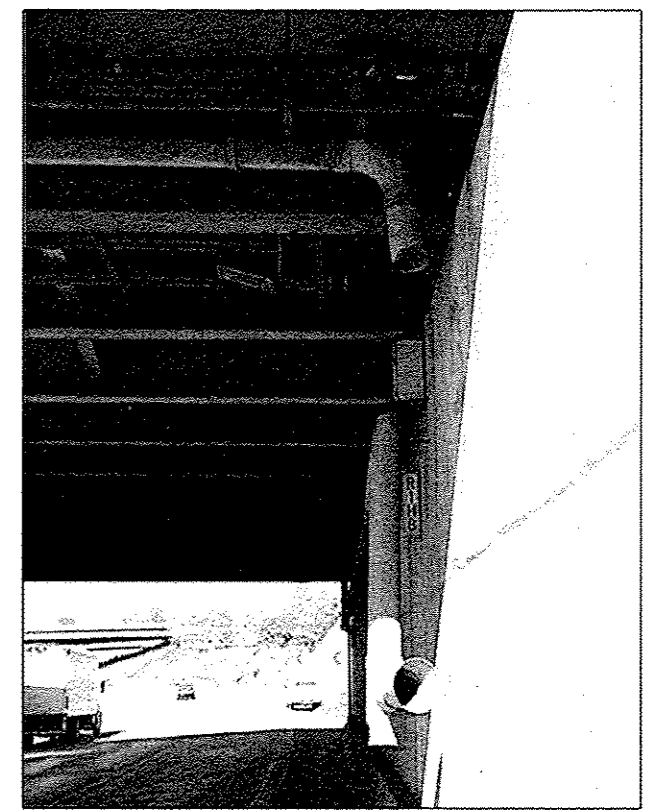
DETAIL A
Connection at Pier



DETAIL B

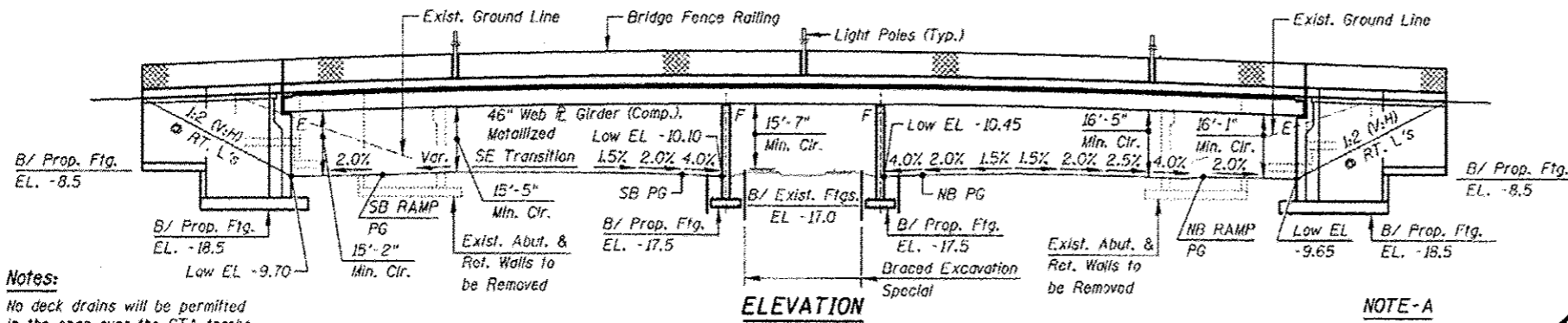
* Dimension as required by Downspout Clamp.

END VIEW
At Piers 1 and 4



016-1147 PHOTO #1
EAST ABUTMENT -
SOUTH END

FILE NAME : p:\1\1084EBIGINTEG\Illinois.gov\PI007\Documents\IDOT\Office\District\Projects\01307\DRW\Design\0130715-shc-LOCATIONS	USER NAME : dahany	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 19 (SN 016-1147) DRAINAGE DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.	VAR.	2015-046T	COOK	81 6J
	PLOT DATE = 7/15/2015	DATE -	REVISED -									CONTRACT NO. 62B12
												ILLINOIS FED. AID PROJECT



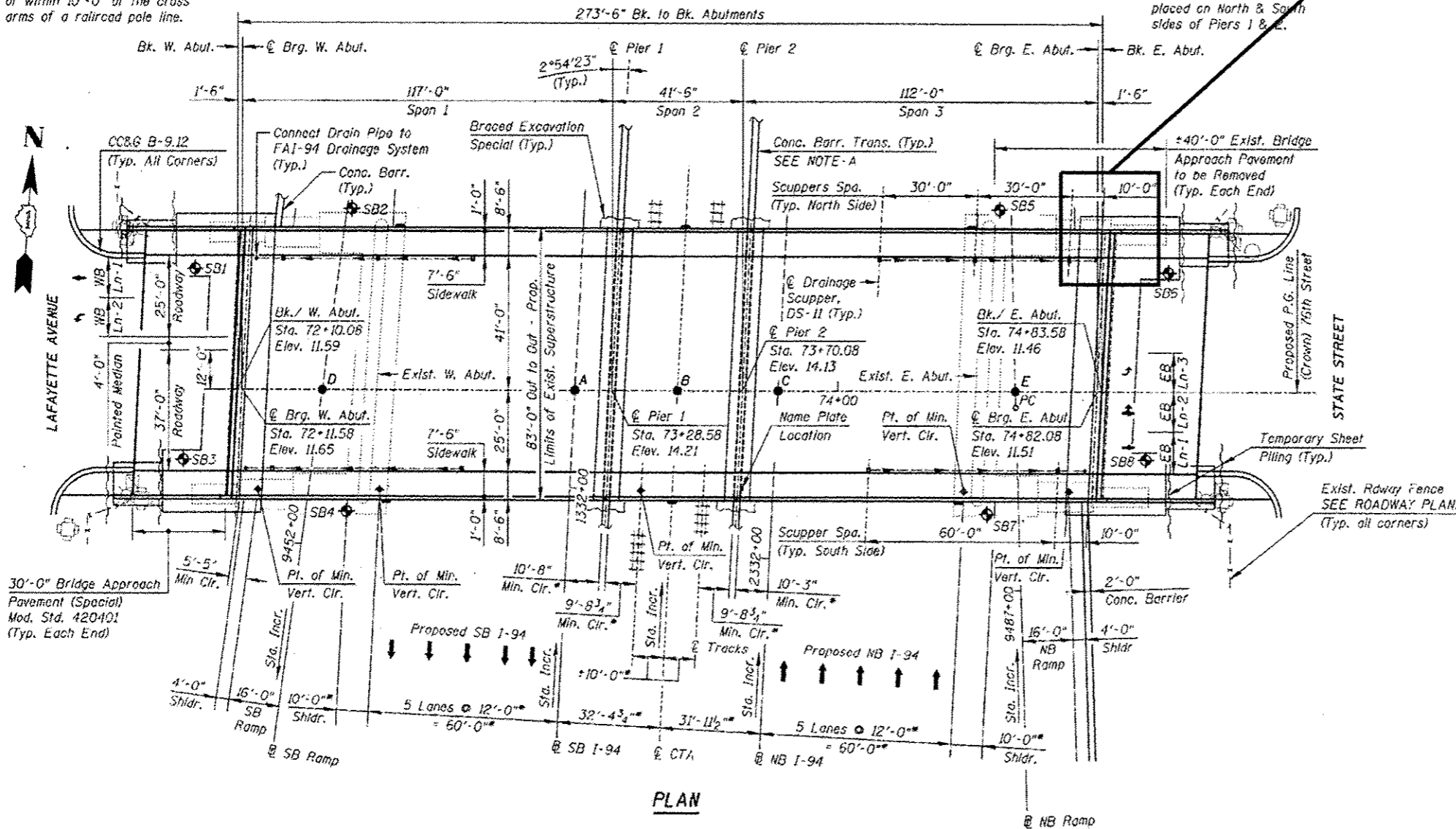
Notes:

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

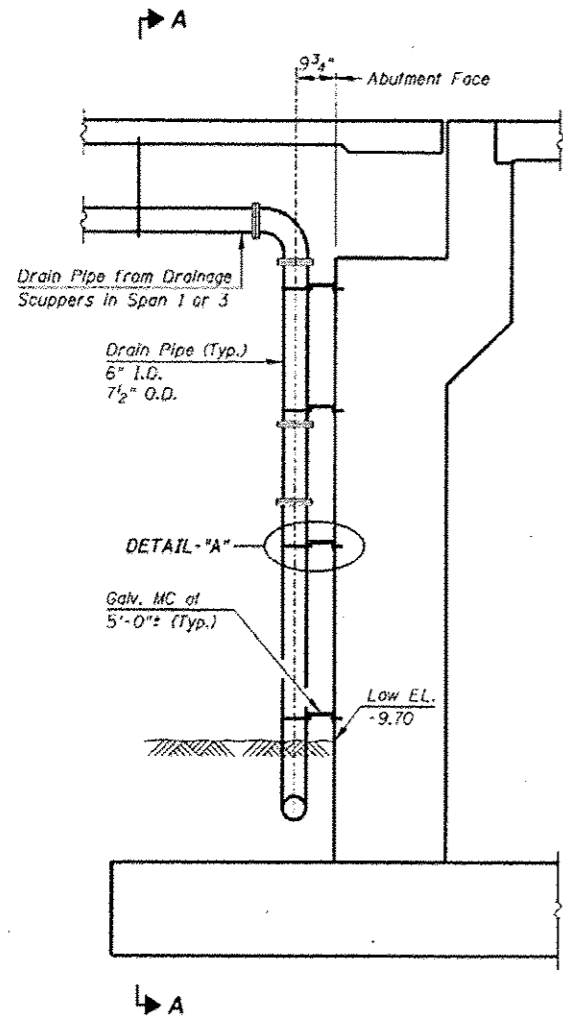
Concrete Barriers to be placed on North & South sides of Piers 1 & 2.

LOCATION OF DRAINAGE REPAIR

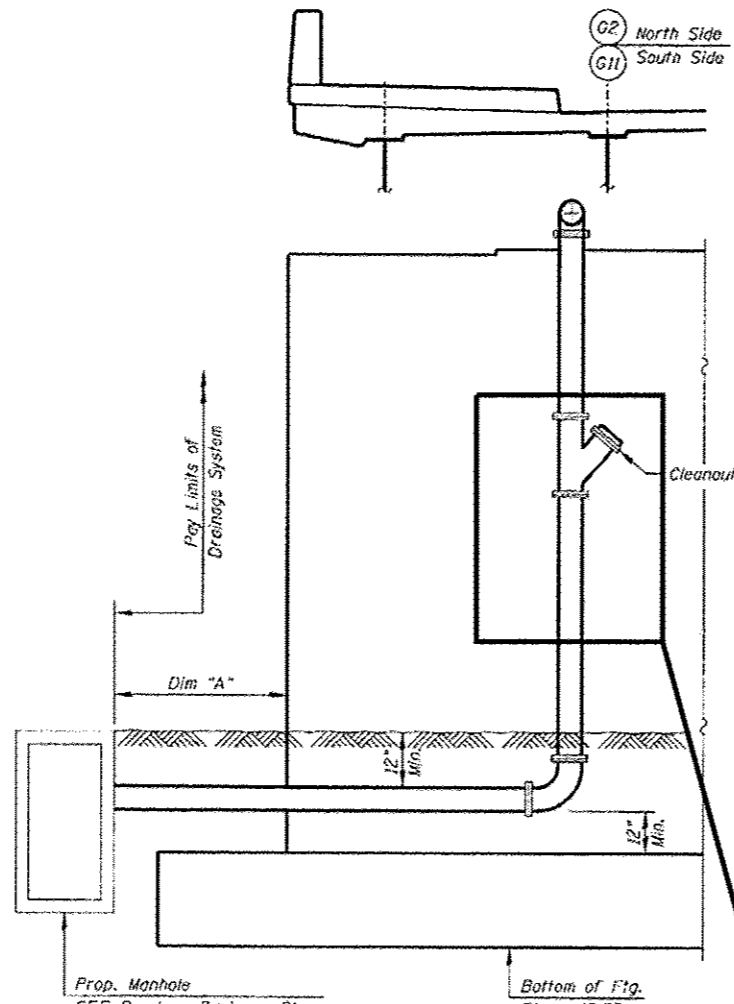


**BILL OF MATERIAL (S.N. 016-2850)
76TH ST. OVER DAN RYAN**

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	3

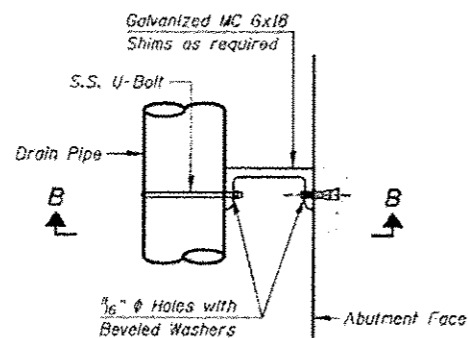


DRAINAGE SYSTEM AT ABUTMENTS

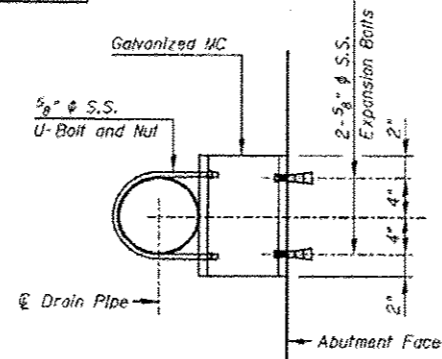


SECTION A-A

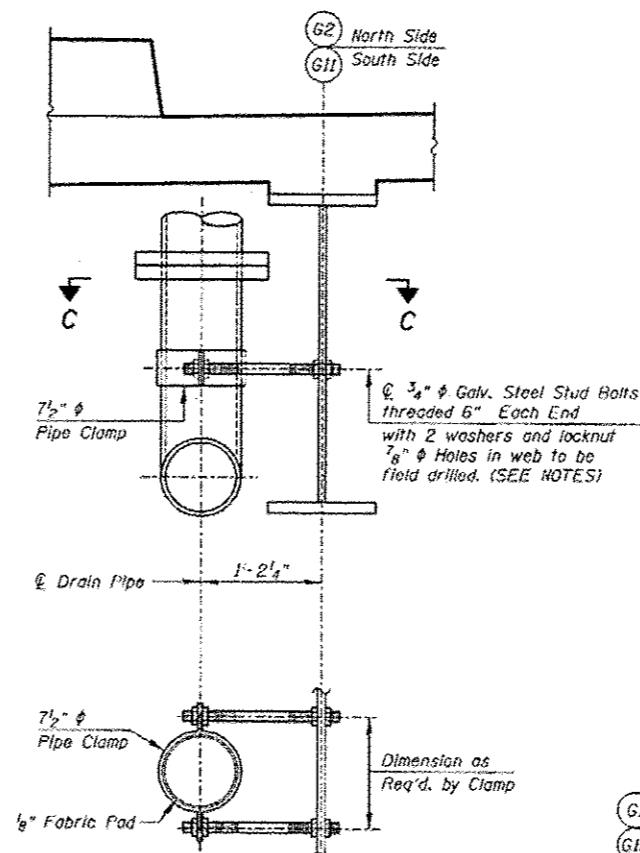
DIM "A"		
W. Abut.	NW Corner	18.0'
	SW Corner	10.0'
E. Abut.	NE Corner	14.0'
	SE Corner	31.0'



DETAIL - "A"



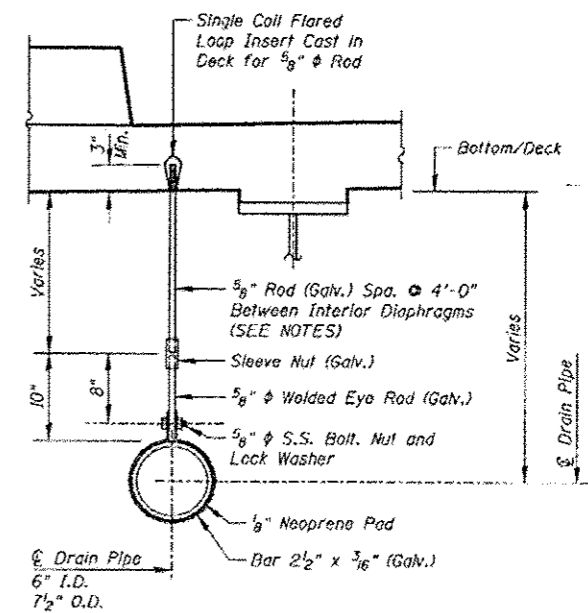
SECTION B-B



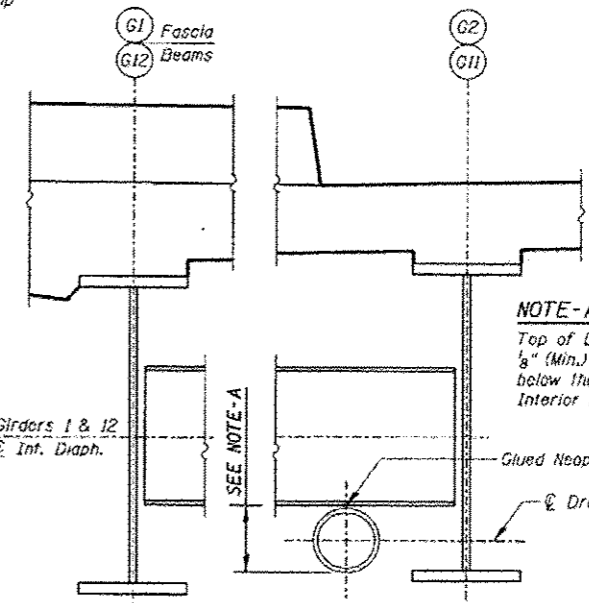
SECTION C-C

VERTICAL PIPE SUPPORT DETAIL

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

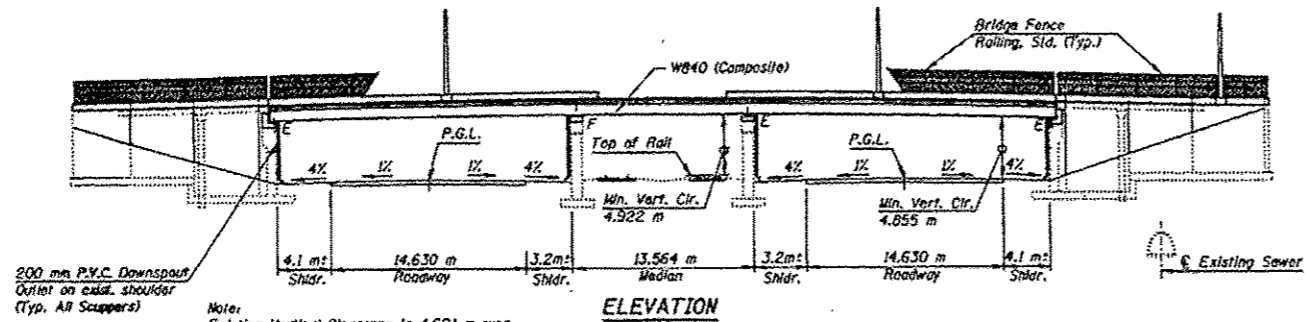


LONGITUDINAL PIPE SUPPORT DETAIL

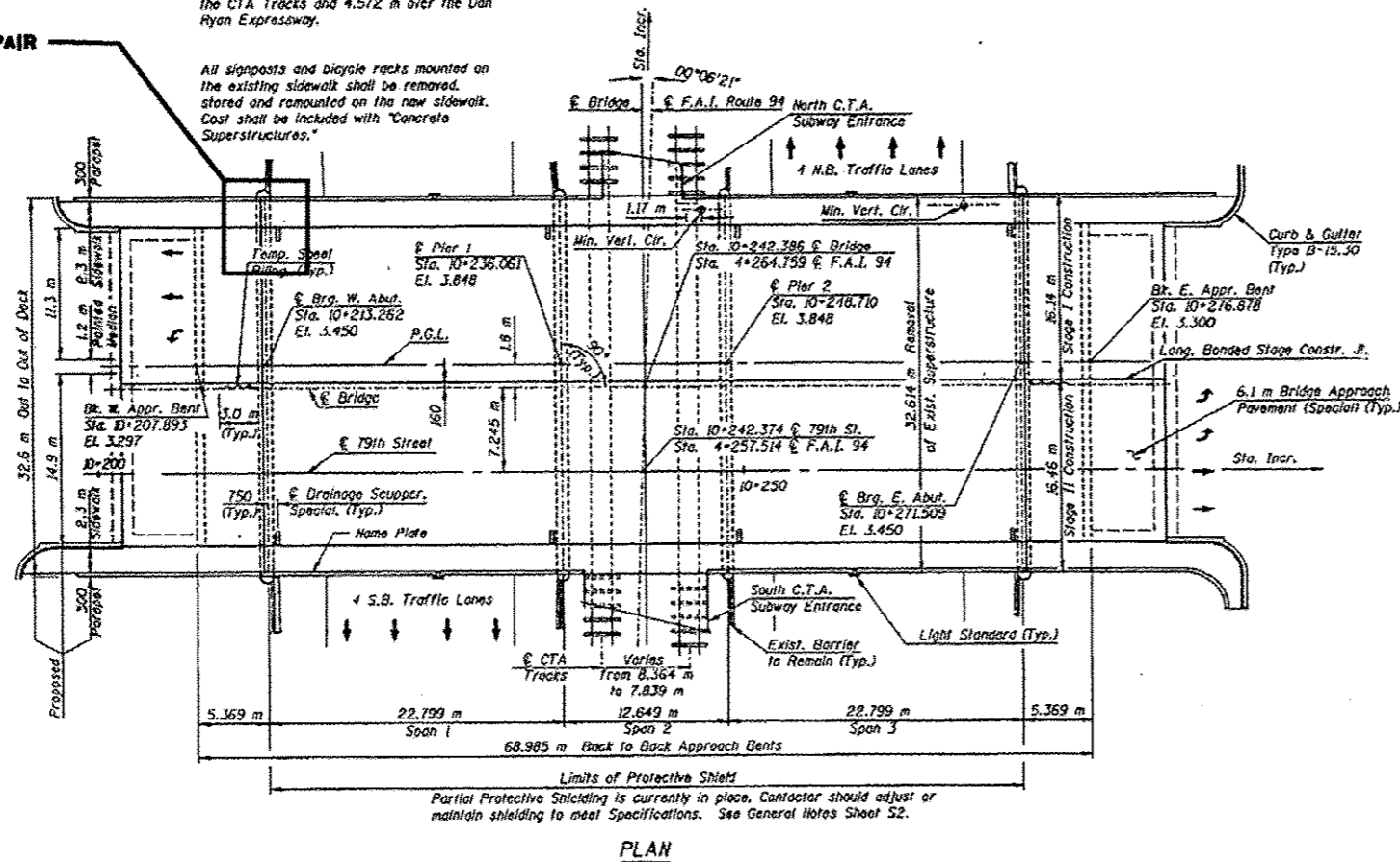


PIPE AT DIAPHRAGMS

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



LOCATION OF DRAINAGE REPAIR



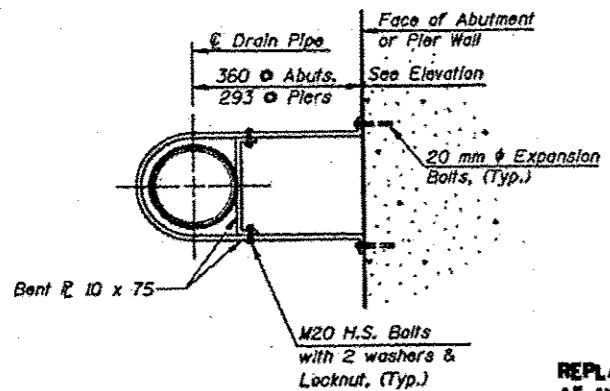
Note:
Existing Vertical Clearance is 4.621 m over the CTA Tracks and 4.572 m over the Dan Ryan Expressway.

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."

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

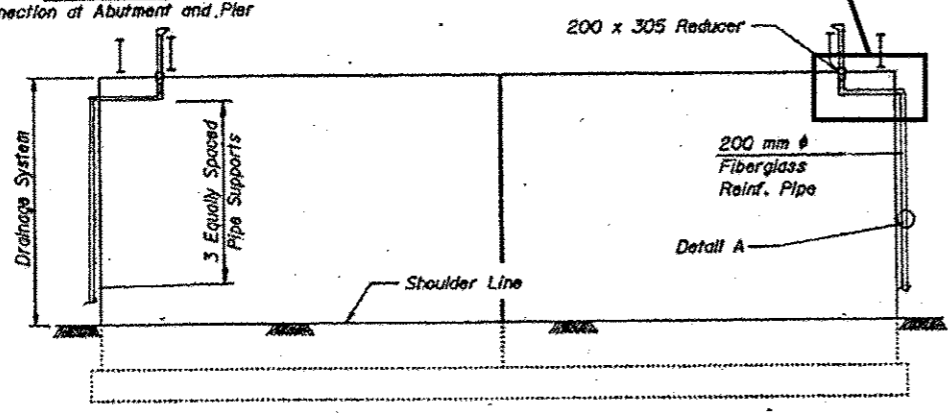
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	15

FILE NAME =	USER NAME = dsherr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 21 (SN 016-1144) GENERAL PLAN AND ELEVATION		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default		CHECKED -	REVISED -		SCALE:	SHEET 1	OF 2 SHEETS	VAR.	2015-046T	COOK	81	64
	PLOT SCALE = 1/88,8889" / in.	DATE -	REVISED -		STA.	TO STA.		CONTRACT NO. 62B12				
	PLOT DATE = 7/15/2015				[ILLINOIS] FED. AID PROJECT							

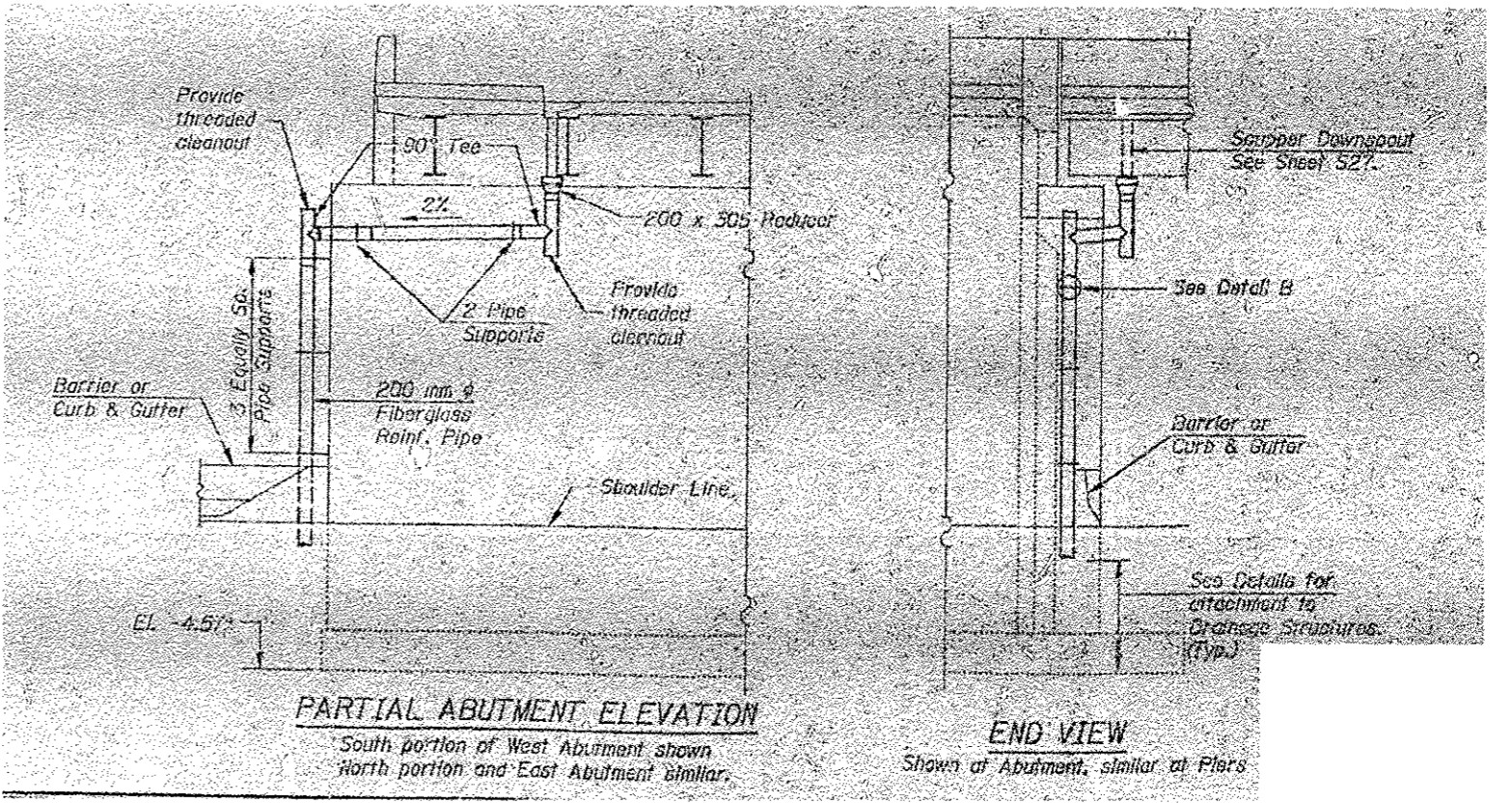


DETAIL A
Connection of Abutment and Pier

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



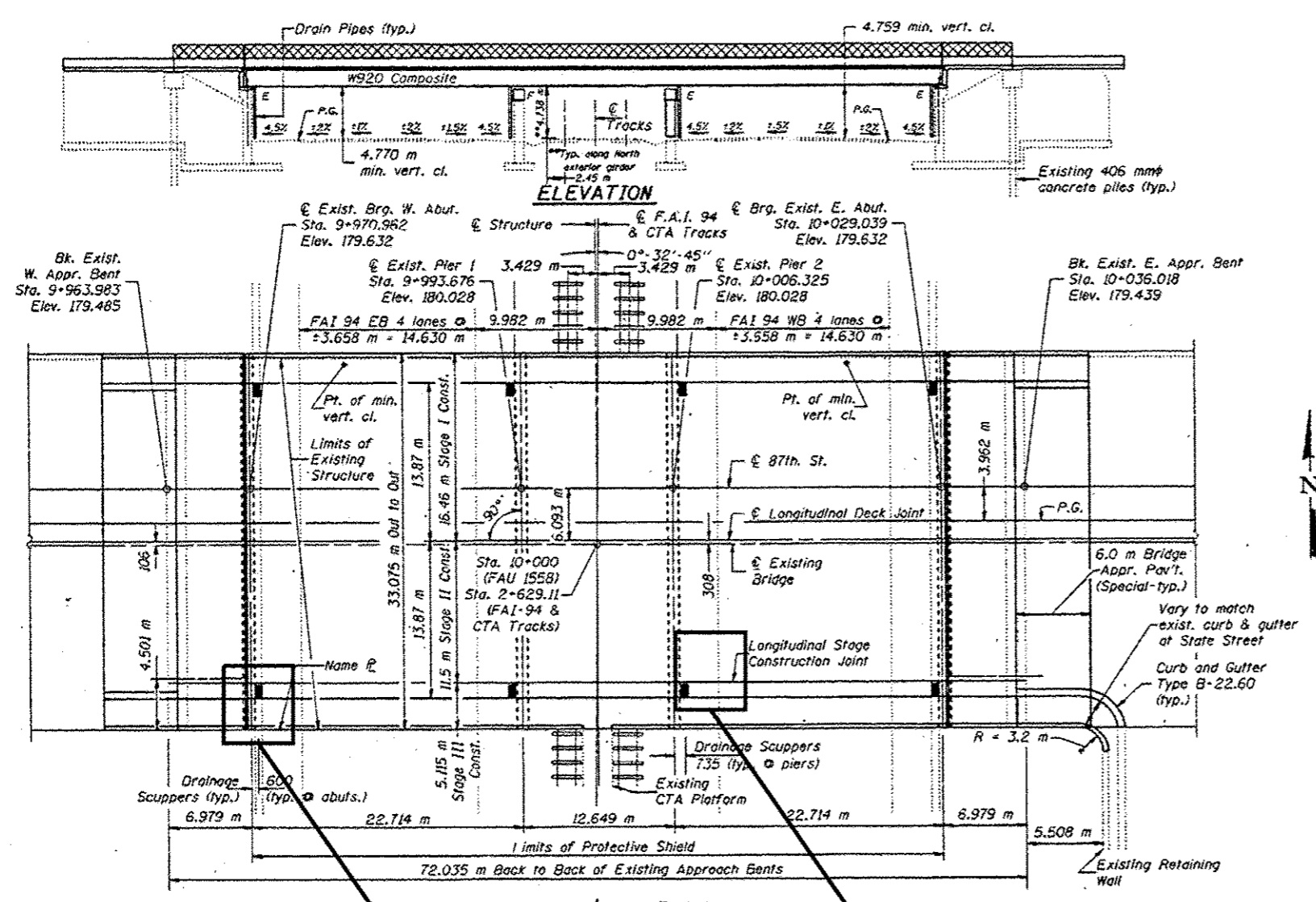
ABUTMENT ELEVATION (WEST)



PARTIAL ABUTMENT ELEVATION
South portion of West Abutment shown
North portion and East Abutment similar.

END VIEW
Shows of Abutment, similar at Piers

FILE NAME :	USER NAME : dahhan	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 21 (SN 016-1144) DRAINAGE DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\ILL0846810INTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\Districts\Projects\DI387\Drawings\Design\DI38715-shs-LOCATIONS		CHECKED -	REVISED -		VAR.	2015-046T	COOK	81	65		
PLOT SCALE = 1/8" = 1' - 0"		DATE -	REVISED -		CONTRACT NO. 62B12			ILLINOIS FED. AID PROJECT			
Default					SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.			

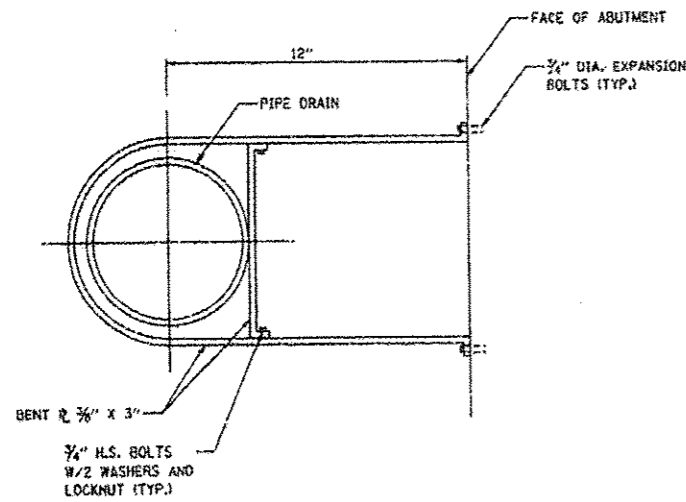


REPLACE MISSING/DAMAGED DRAINAGE PIPE SECTION. SEE PHOTO 2 ON SHEET 2 OF 2 (SN 016-1142) (5 LF)

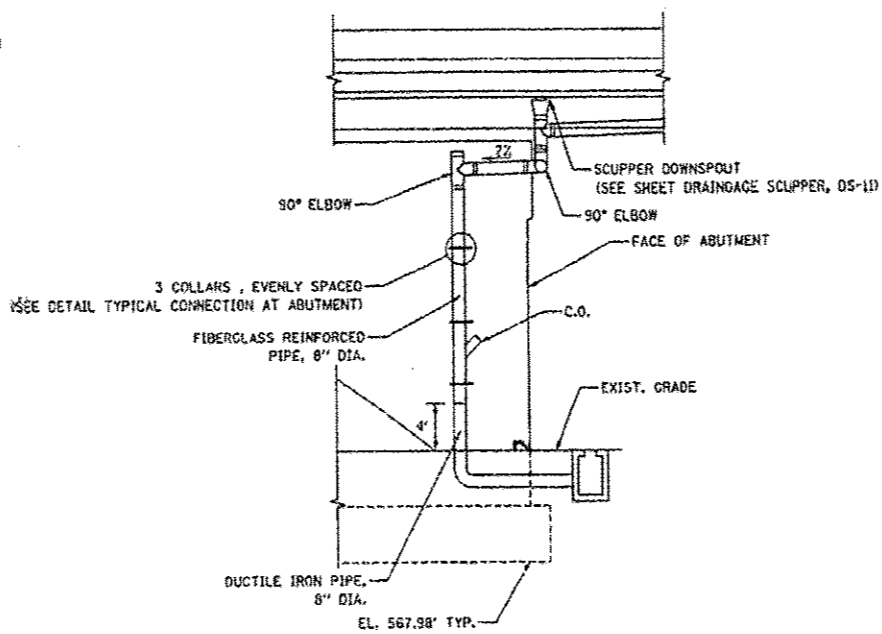
REPLACE MISSING CAP AT END OF DRAINAGE PIPE. SEE PHOTO 1 ON SHEET 2 OF 2 (SN 016-1142) (1 LF)

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

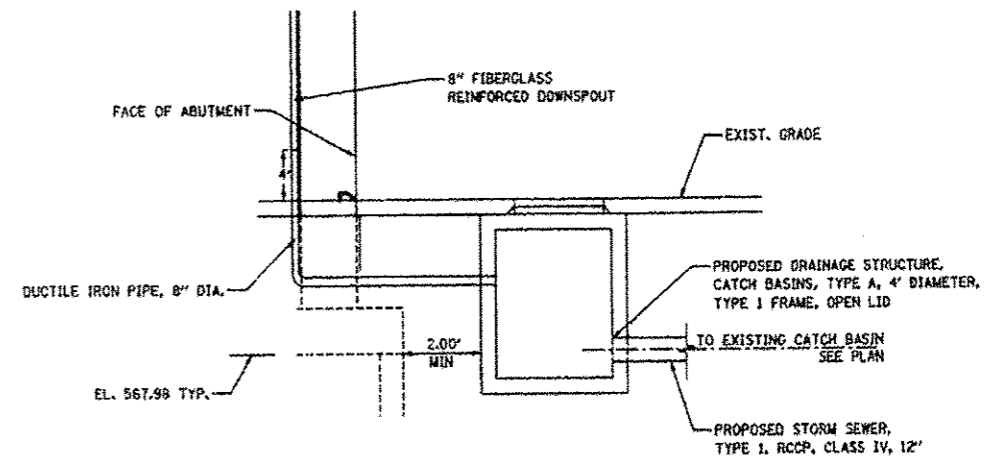
ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	6



DETAIL (CONNECTION AT ABUTMENT)

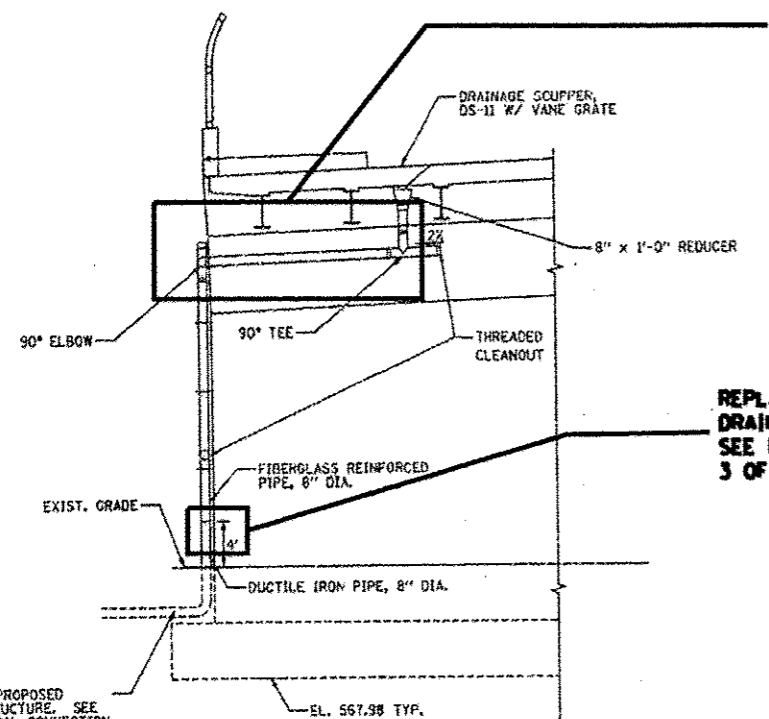


END VIEW



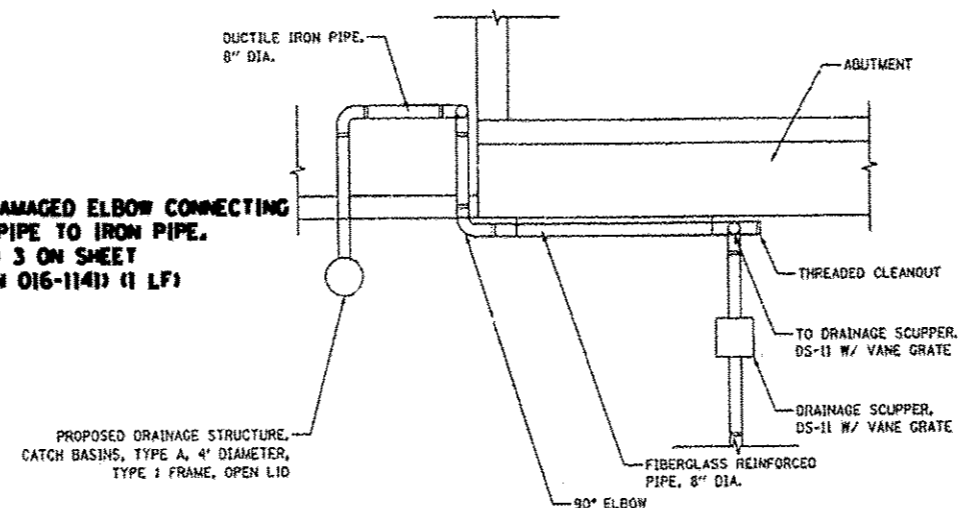
DETAIL (TYPICAL CONNECTION OF DOWNSPOUT TO I-94 DRAINAGE)

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



PARTIAL ABUTMENT DETAIL

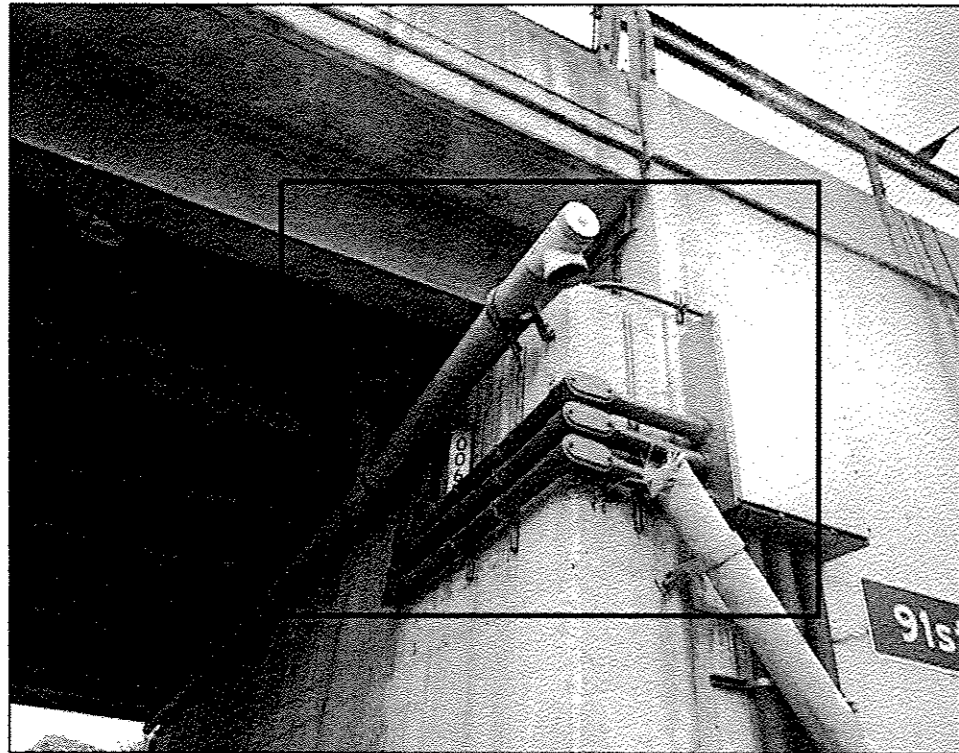
REPLACE DAMAGED ELBOW CONNECTING DRAINAGE PIPE TO IRON PIPE. SEE PHOTO 3 ON SHEET 3 OF 3 (SN 016-1141) (1 LF)



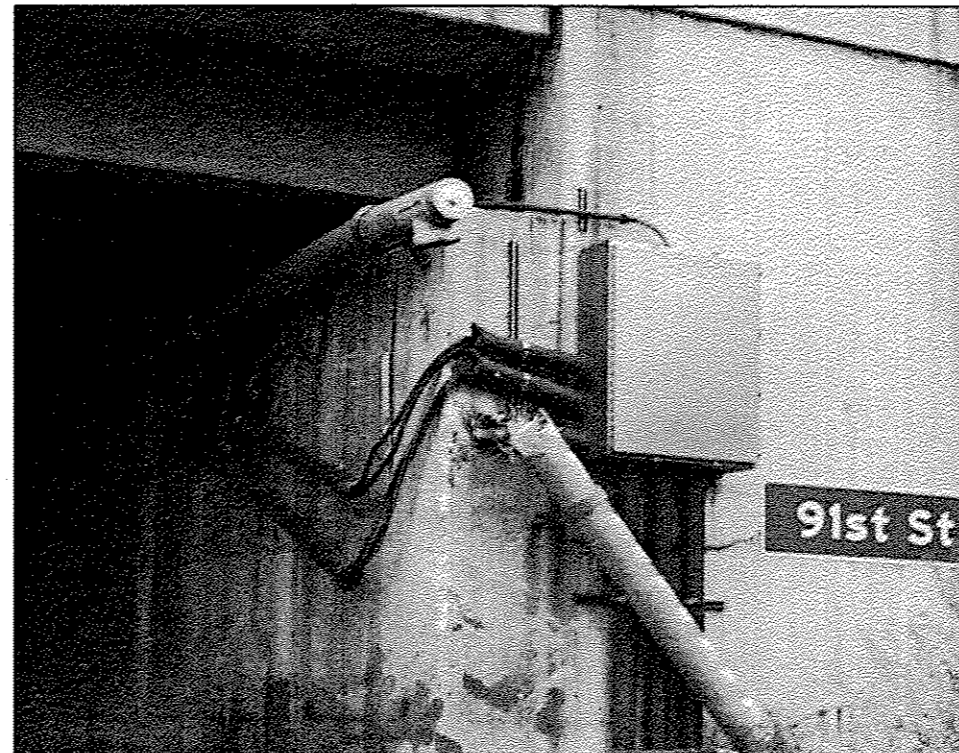
PLAN VIEW

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

FILE NAME :	USER NAME : dahhew	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 23 (SN 016-1141) DRAINAGE DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Documents\DOT Offices\District 1\Projects\013875\Drawings\Design\013875-shr-LOCATIONS	CHECKED -	REVISED -		SCALE:	SHEET 2 OF 3 SHEETS	STA.	VAR.	2015-046T	COOK	81	69
	PLOT SCALE = 100.0000' / 1" =	DATE -	REVISED -									
	PLOT DATE = 7/15/2015											
										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

FILE NAME :	USER NAME = daharr	DESIGNED -	REVISED -
p:\1\1846810\INTEG\Illinois.gov\PIW\DOT\Documents\DOT_Offices\District 1\Projects\0138715-1141-LOCATIONS	DRAWN	CHECKED -	REVISED -
		DATE -	REVISED -
Default			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

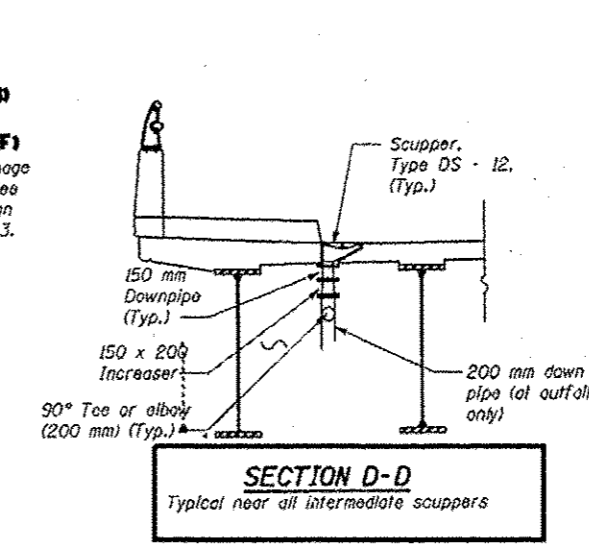
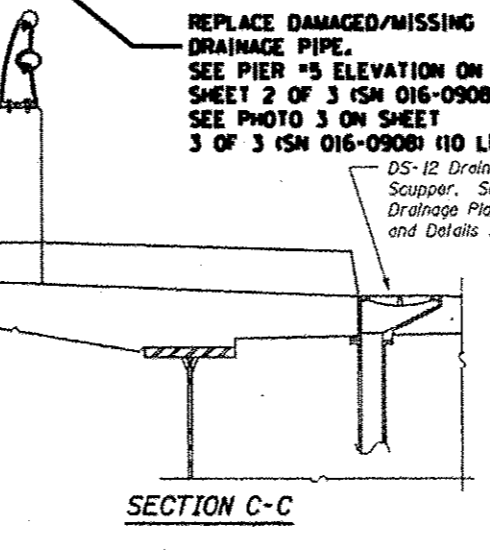
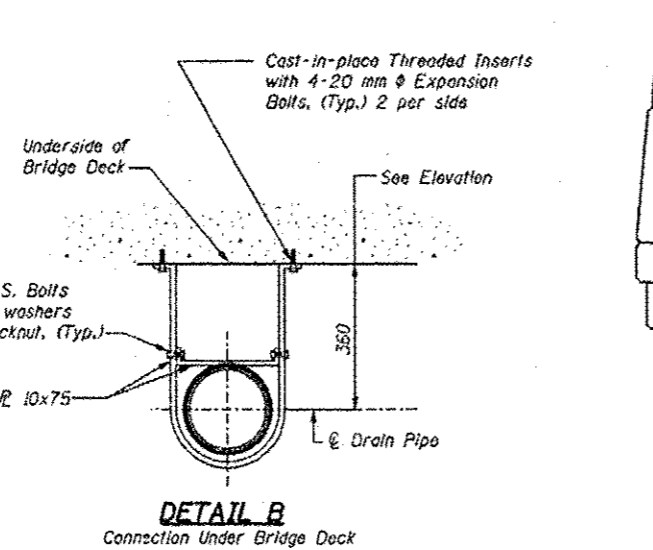
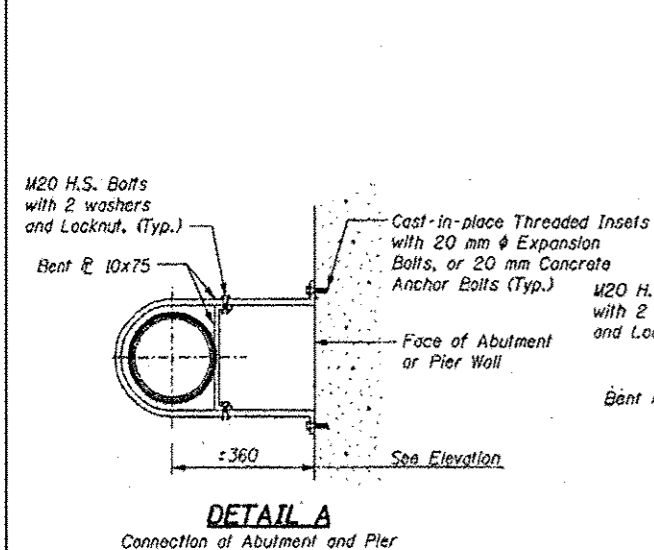
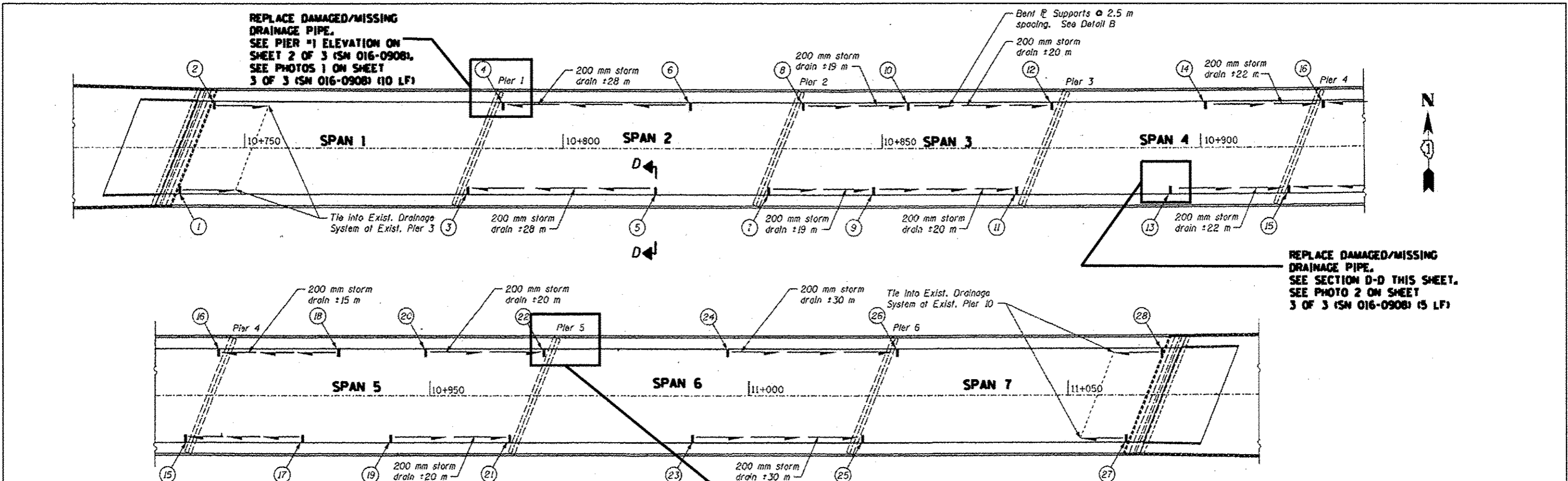
LOCATION 23 (SN 016-1141)
DETAILS

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

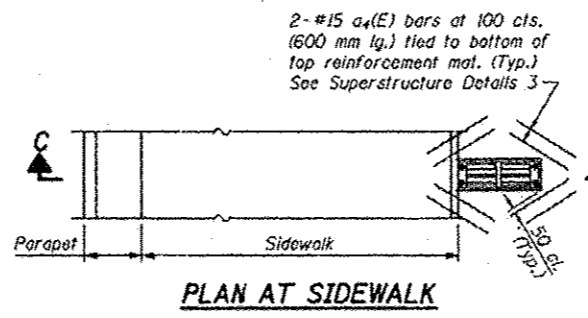
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	70
			CONTRACT NO. 62B12	
ILLINOIS FED. AID PROJECT				

REPLACE DAMAGED/MISSING DRAINAGE PIPE. SEE PIER #1 ELEVATION ON SHEET 2 OF 3 (SN 016-0908). SEE PHOTOS 1 ON SHEET 3 OF 3 (SN 016-0908) (10 LF)

REPLACE DAMAGED/MISSING DRAINAGE PIPE. SEE SECTION D-D THIS SHEET. SEE PHOTO 2 ON SHEET 3 OF 3 (SN 016-0908) (5 LF)



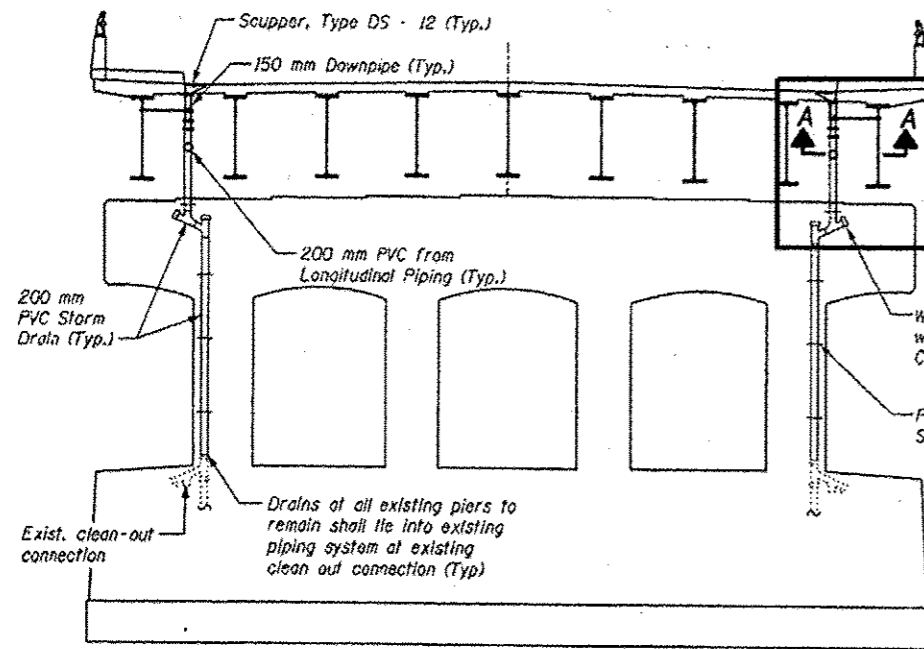
Scupper Number	Station	Offset	Type
1	10+740 RT	7.2 m	DS 12
2	10+745 LT	7.2 m	DS 12
3	10+786 RT	7.2 m	DS 12
4	10+791 LT	7.2 m	DS 12
5	10+814 RT	7.2 m	DS 12
6	10+819 LT	7.2 m	DS 12
7	10+832 RT	7.2 m	DS 12
8	10+837 LT	7.2 m	DS 12
9	10+851 RT	7.2 m	DS 12
10	10+856 LT	7.2 m	DS 12
11	10+871 RT	7.2 m	DS 12
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



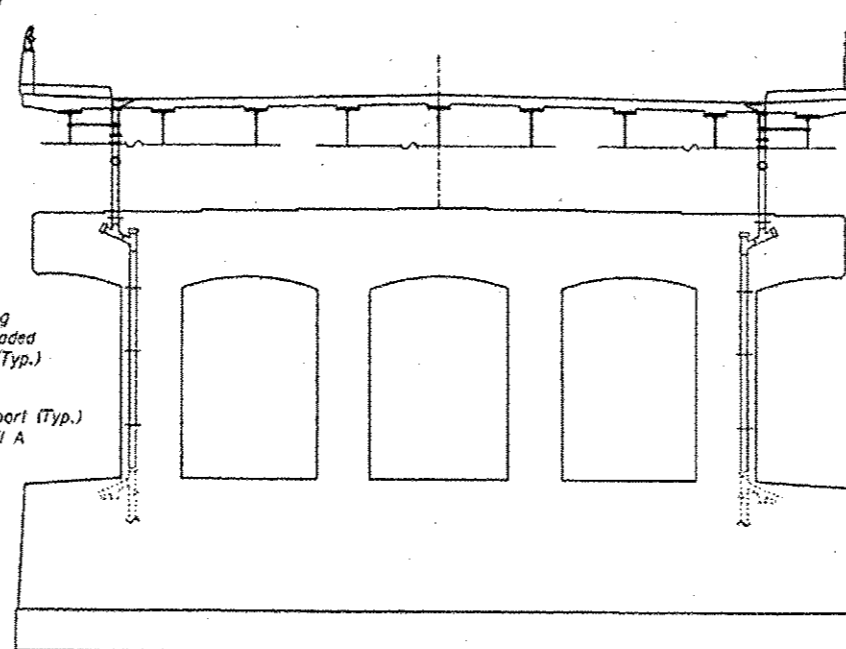
BILL OF MATERIAL (S.N. 016-0908)
127TH ST OVER RR

ITEM	UNIT	QUANTITY
BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	25

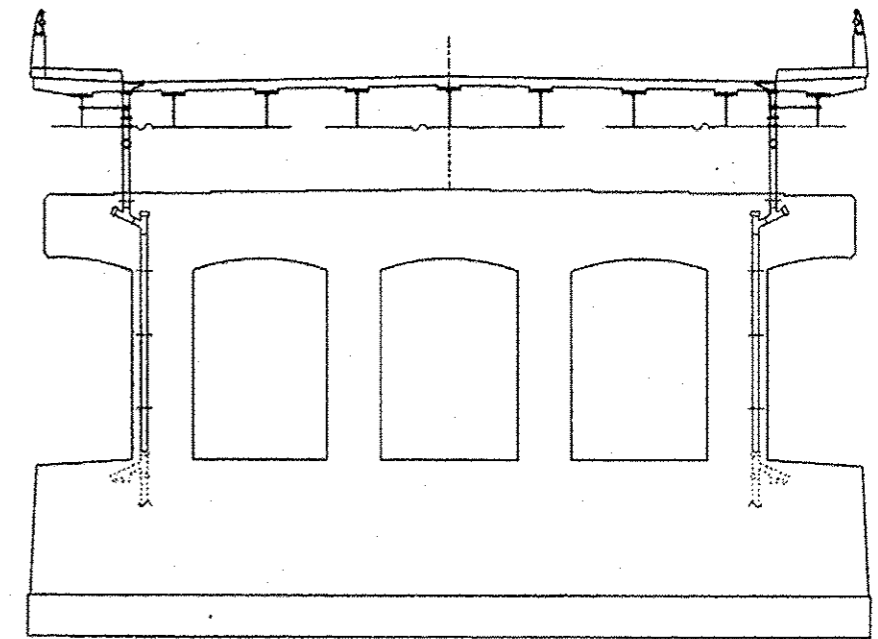
LOCATION OF DRAINAGE REPAIR



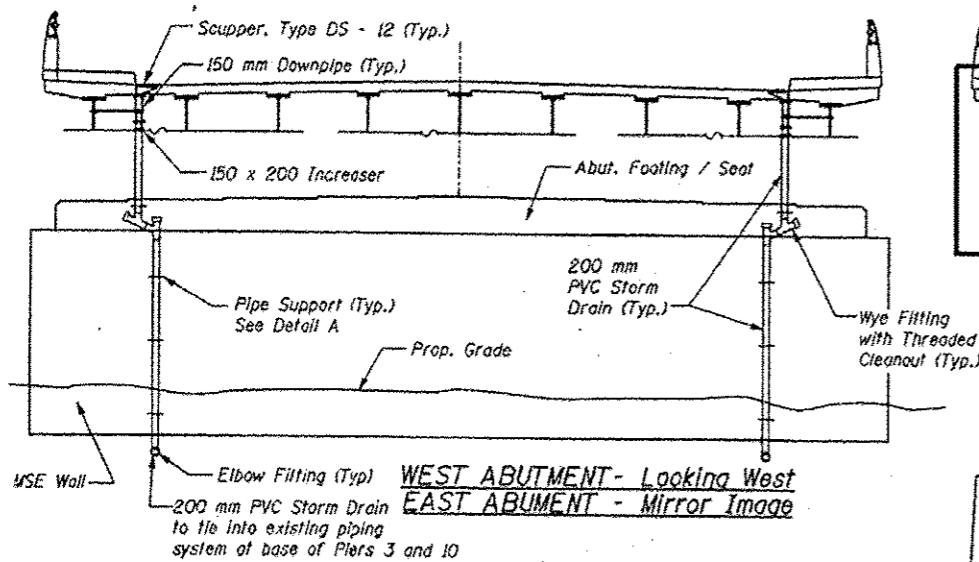
PIER #1 - Looking West



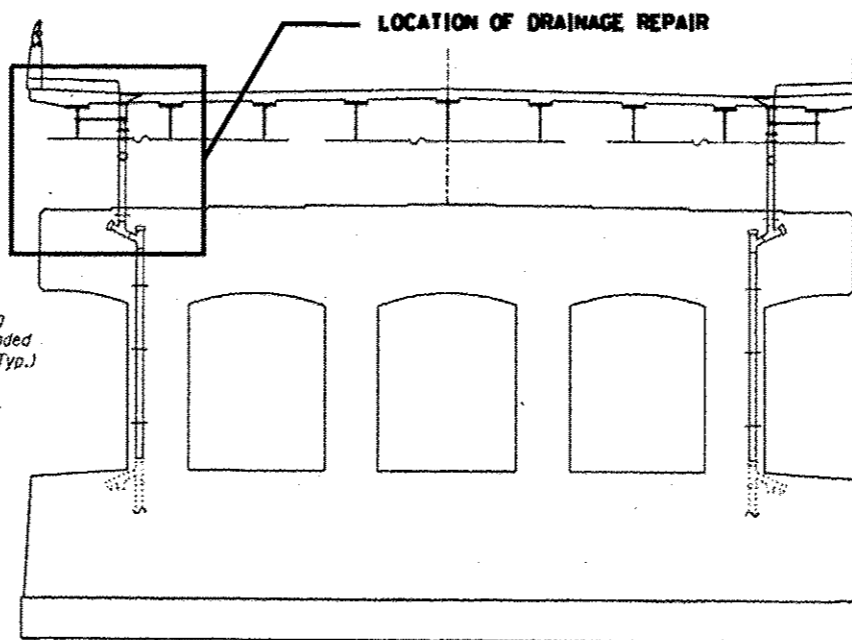
PIER #3 - Looking East



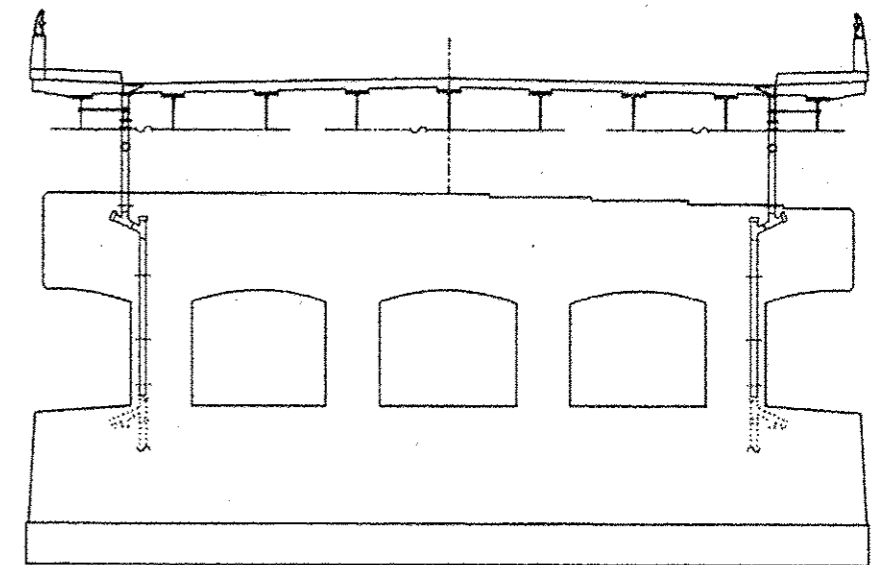
PIER #4 - Looking West



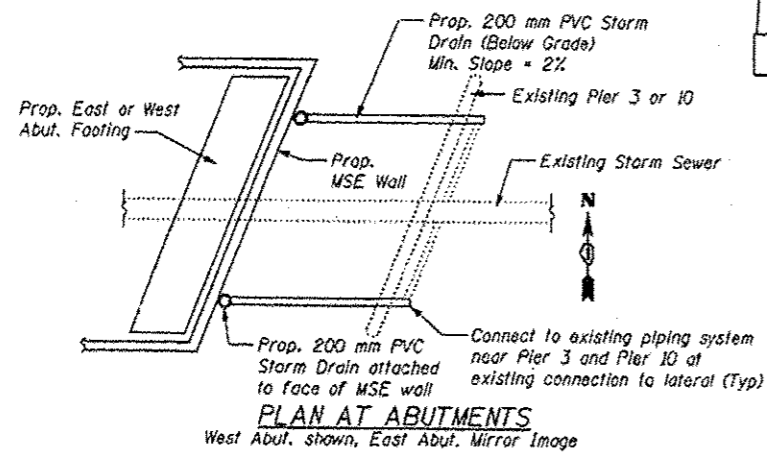
WEST ABUTMENT - Looking West
EAST ABUTMENT - Mirror Image



PIER #5 - Looking East

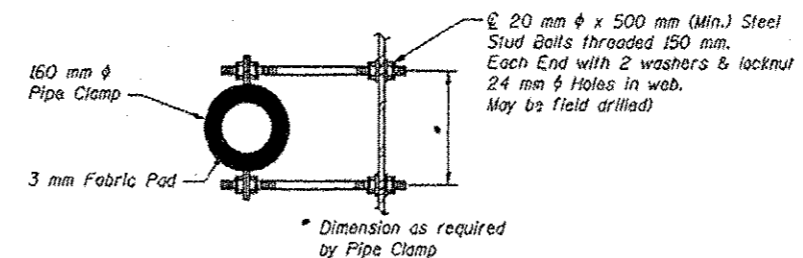


PIER #6 - Looking West



PLAN AT ABUTMENTS

West Abut. shown, East Abut. Mirror Image



SECTION A-A

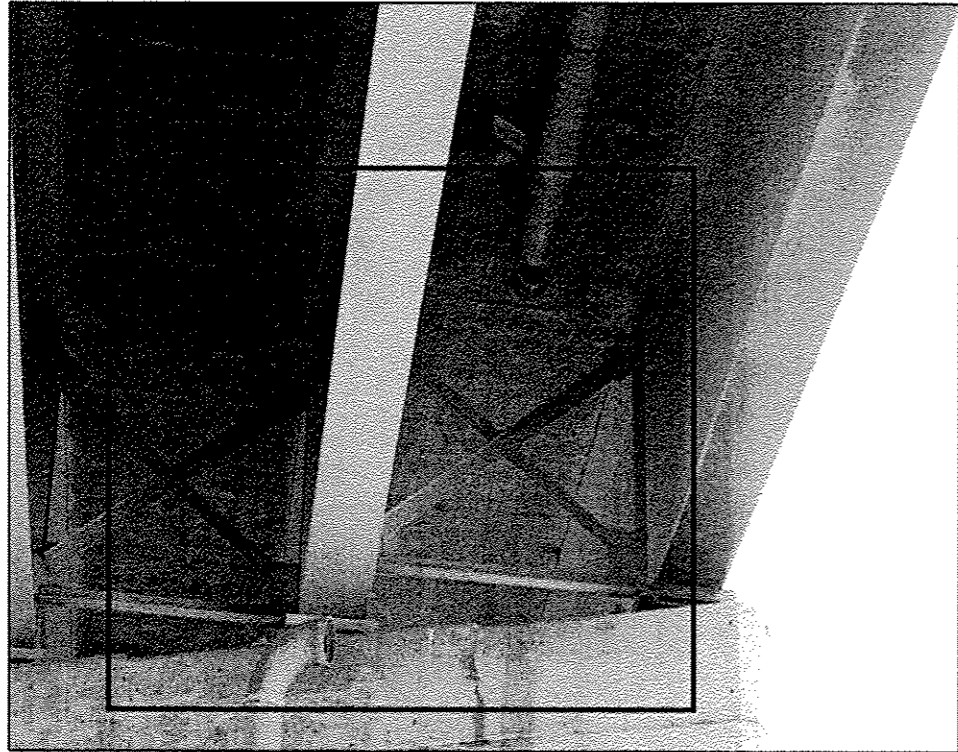
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 24 (SN 016-0908)
DRAINAGE DETAILS

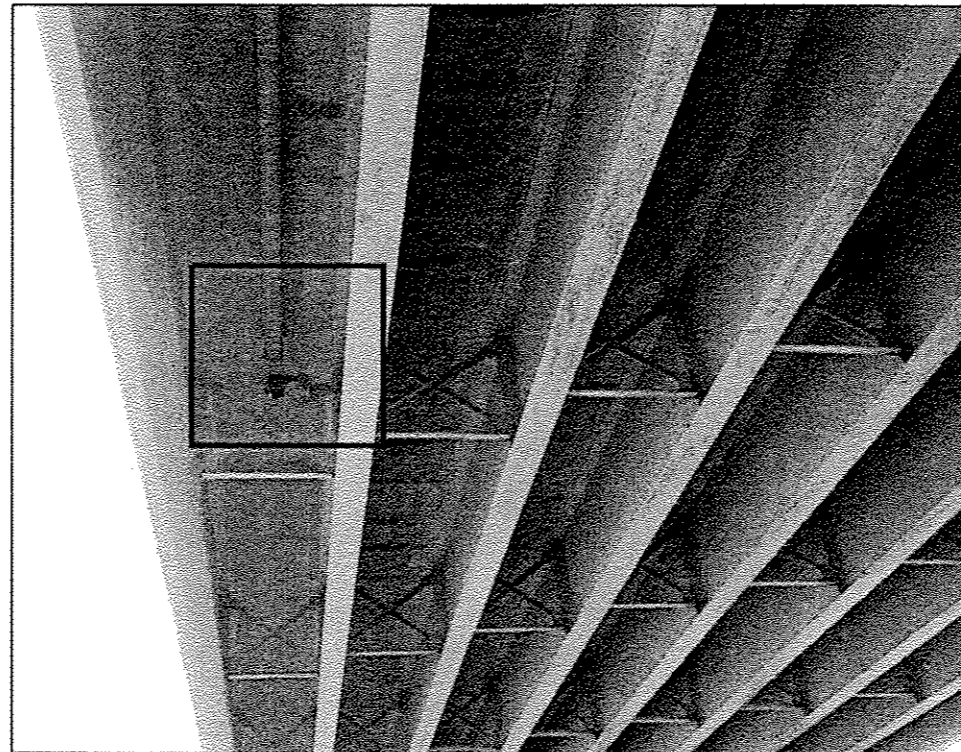
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2015-046T	COOK	81	72
CONTRACT NO. 62B12			ILLINOIS FED. AID PROJECT	

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Default	PLOT SCALE = 108.0009 / in.	CHECKED -	REVISED -
	PLOT DATE = 7/15/2015	DATE -	REVISED -

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



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

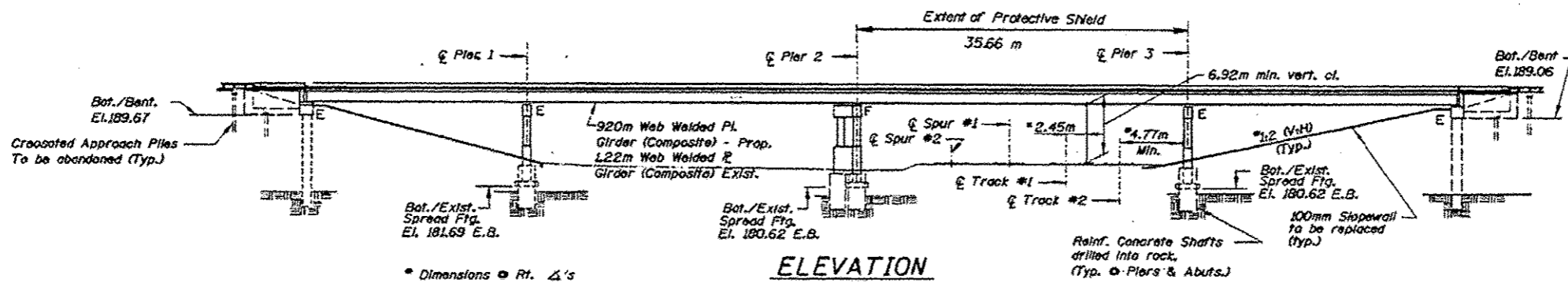
FILE NAME :	USER NAME : dehan-	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

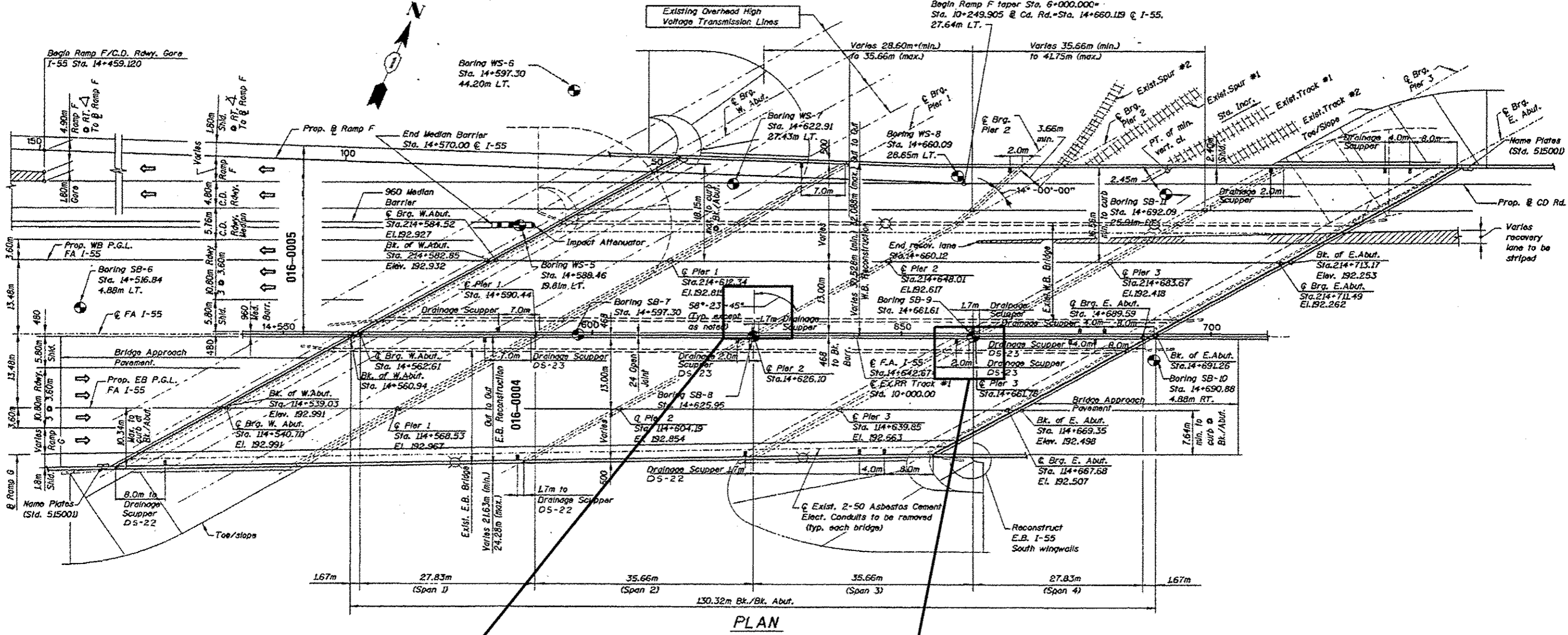
LOCATION 24 (SN 016-0908)
DETAILS

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	



ELEVATION



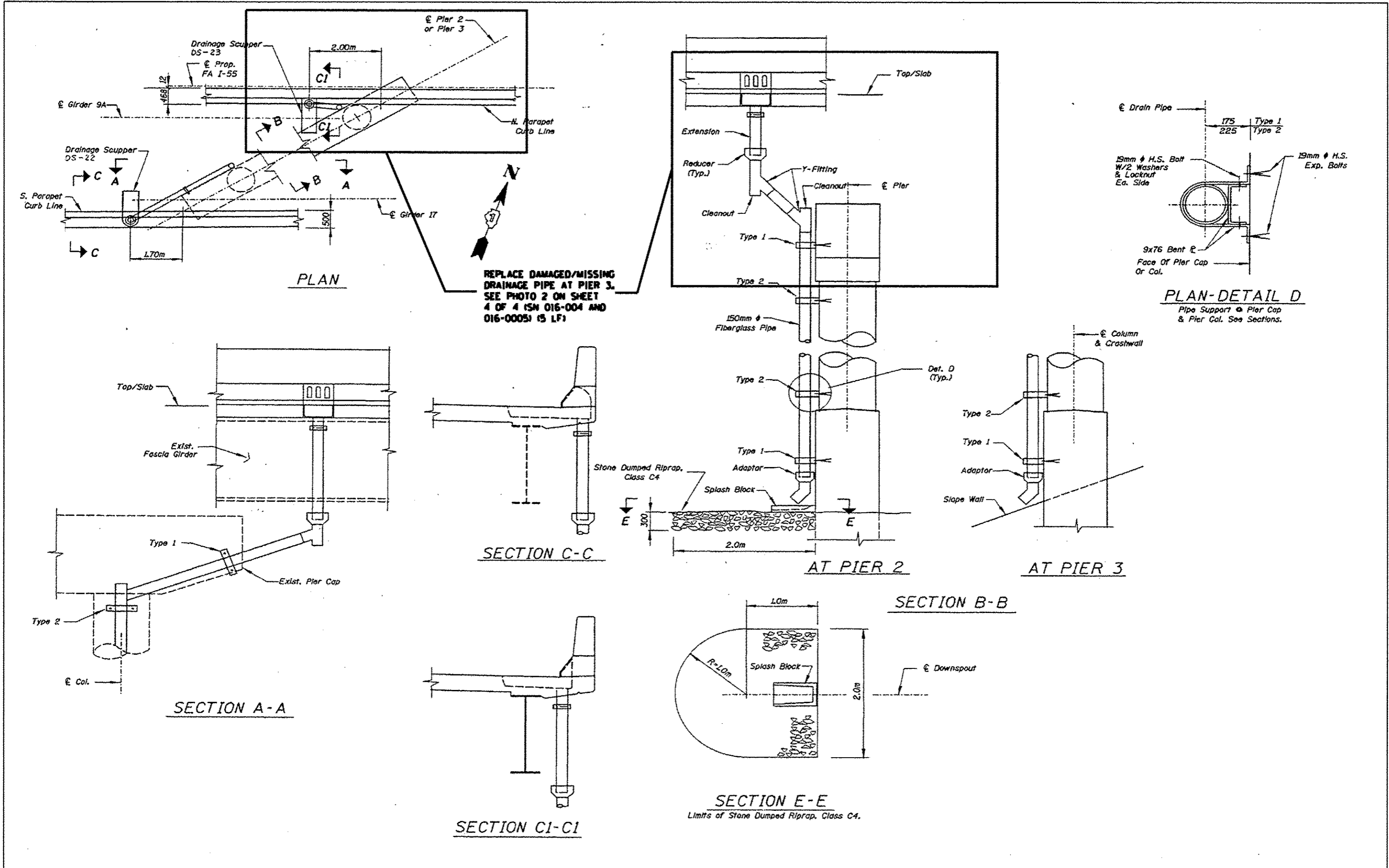
PLAN

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



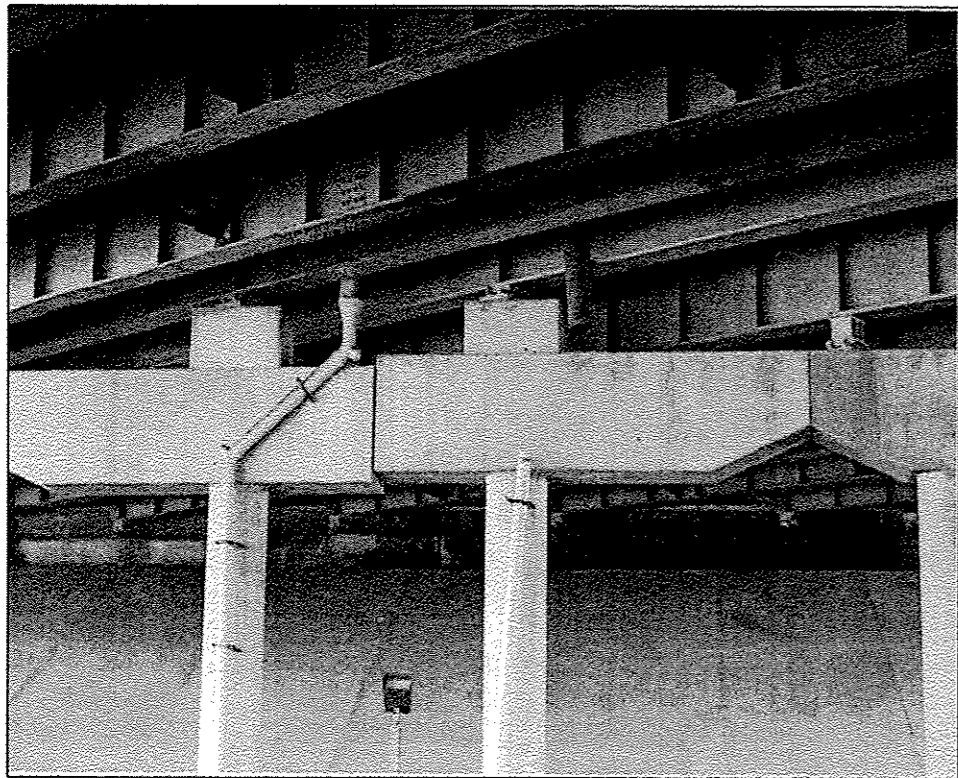
REPLACE DAMAGED/MISSING DRAINAGE PIPE AT PIER 3. SEE PHOTO 2 ON SHEET 4 OF 4 (SN 016-004 AND 016-0005) (5 LF)

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

FILE NAME =	USER NAME = dehhav	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 25 (EB SN 016-0004) DRAINAGE DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Documents\DOT Offices\District 1\Projects\01387\01387-01\Design\0138715-shr-LOCATIONS	PLLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -			VAR.	2015-046T	COOK	81	75	
Default	PLLOT DATE = 7/15/2015	DATE -	REVISED -			SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.		CONTRACT NO. 62B12			
						ILLINOIS FED. AID PROJECT					

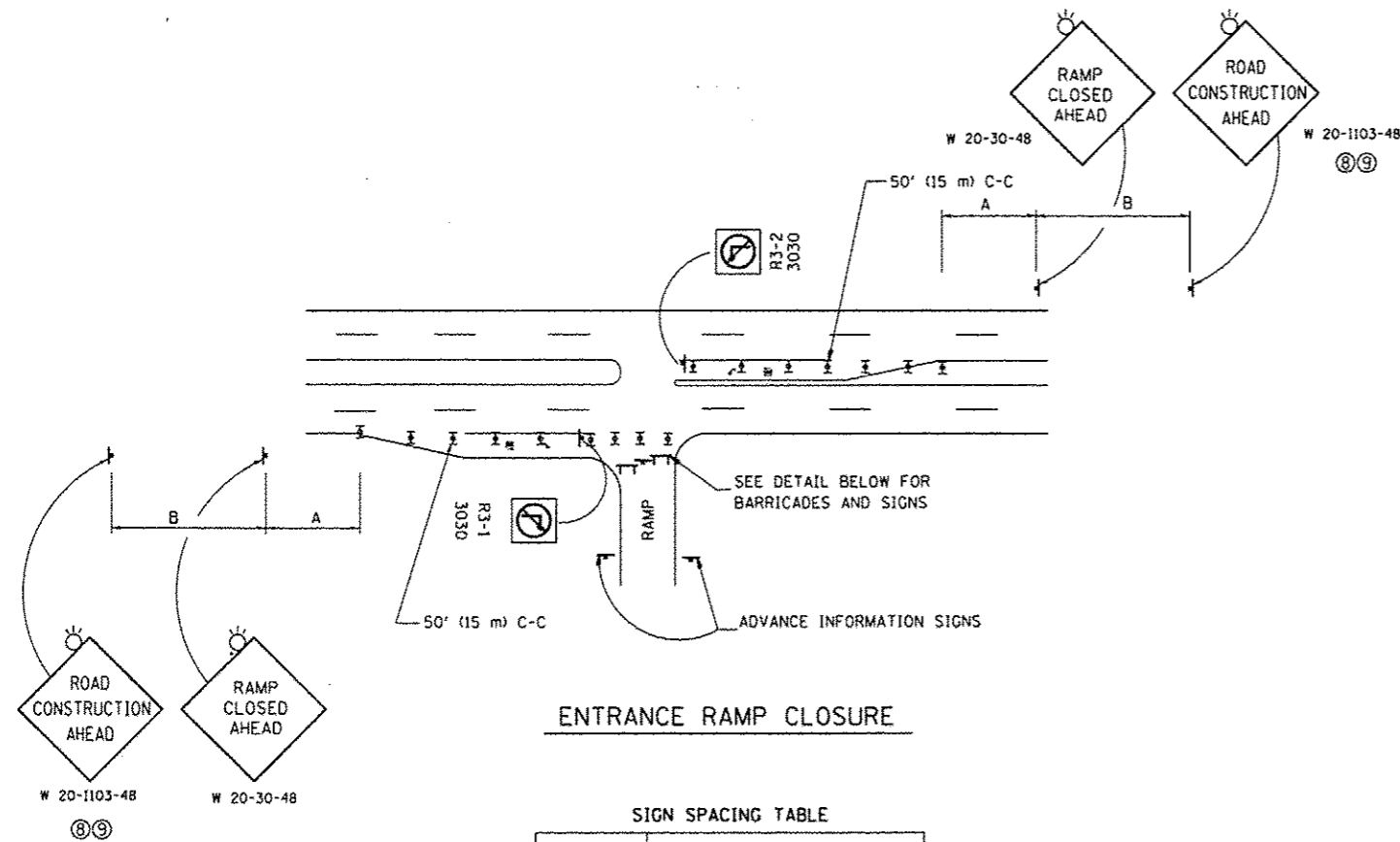


016-0004 AND 016-0005 PHOTO #1
PIER 2 _ WEST FACE



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

FILE NAME =	USER NAME = dahhanr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 25 (EB SN 016-0004 AND WB 016-0005) DETAILS		F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1\1084E010INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\0138719\DrawData\Design\0138719-shs-LOCATIONS	DRAWN -	REVISED -	VAR.				2015-046T	COOK	81	77	
Default	PLOT SCALE = 100.0000' / 1"	CHECKED -	REVISED -		SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.		CONTRACT NO. 62B12		ILLINOIS FED. AID PROJECT		
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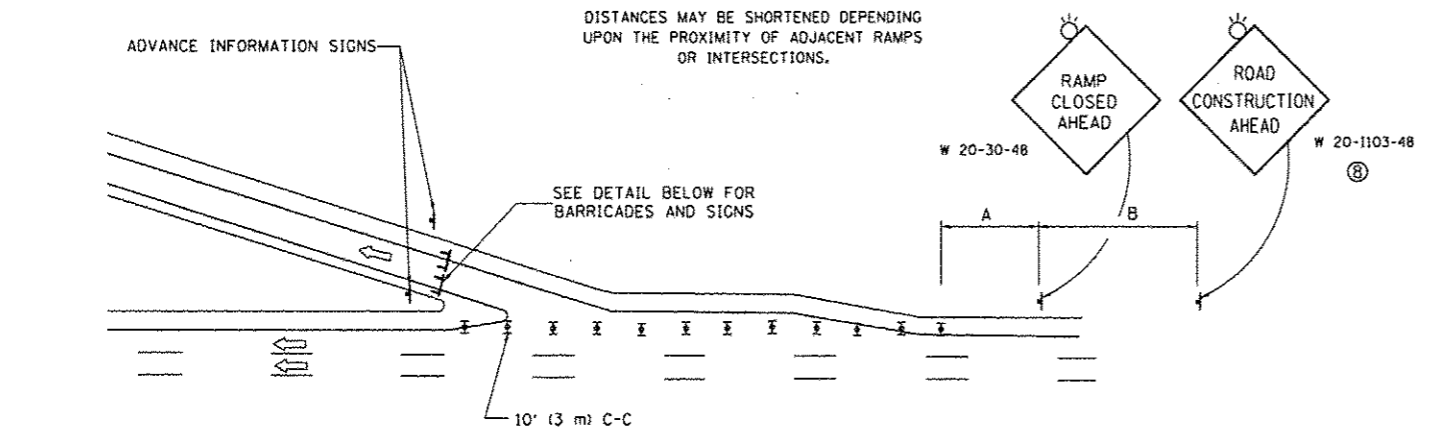


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

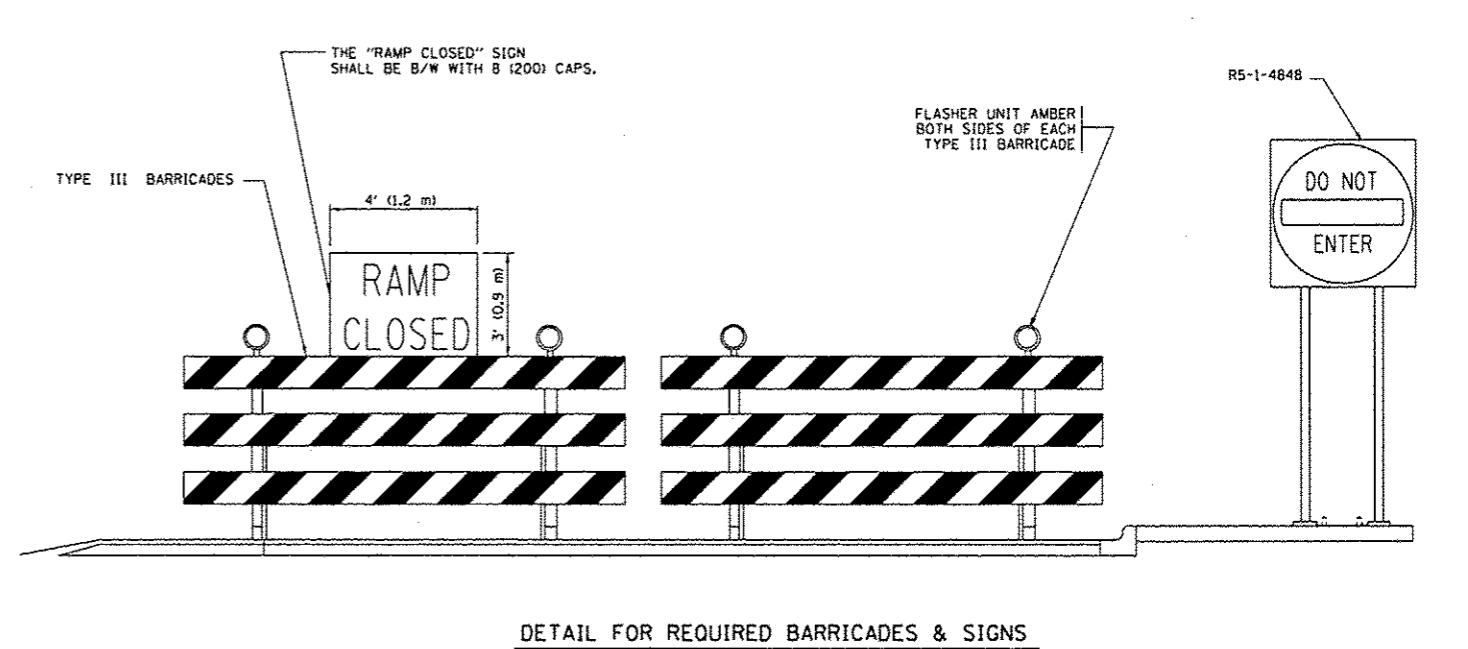
FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

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



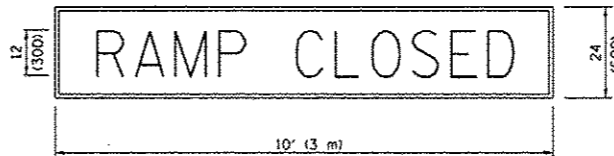
EXIT RAMP CLOSURE

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



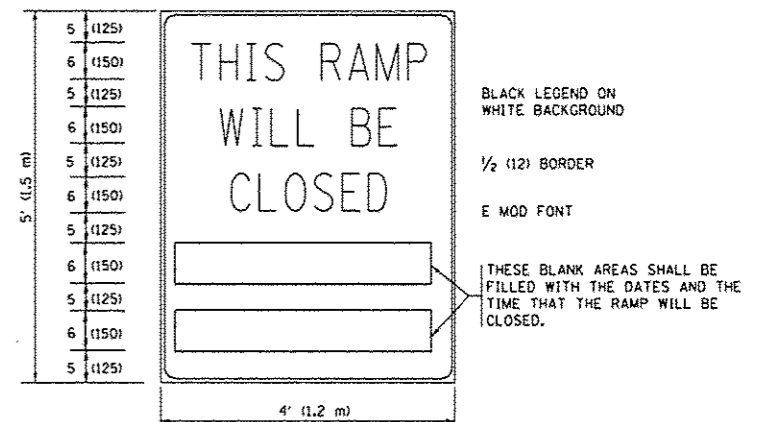
DETAIL FOR REQUIRED BARRICADES & SIGNS

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



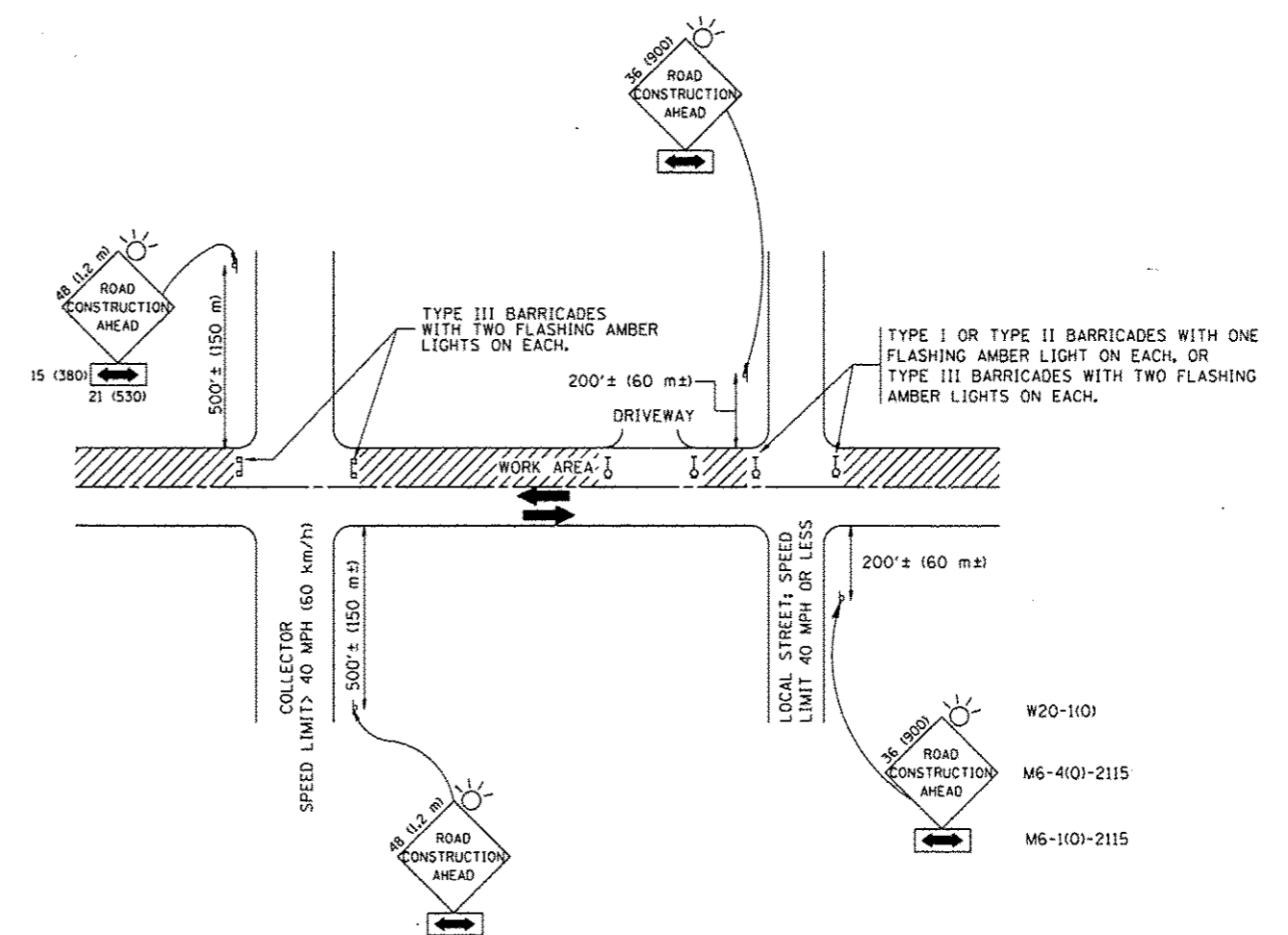
BLACK LEGEND ON WHITE BACKGROUND
 1/2 (12) BORDER
 E MOD FONT
 THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

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.



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

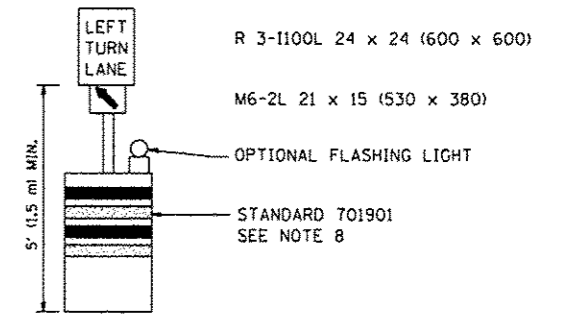
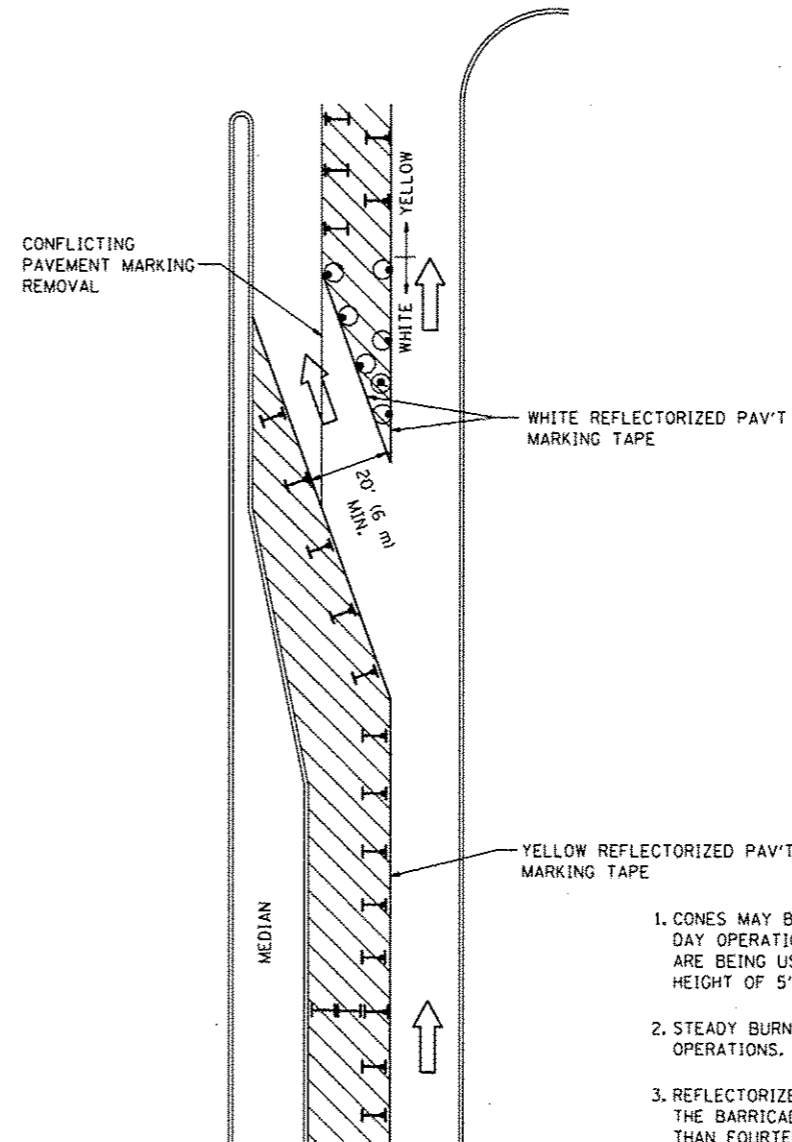
NOTES:

- 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.

FILE NAME: p:\11084EBID\INTEG\Illinois.gov\PI\DOT\Documents\1001\Offices\District 1\Projects\11387\Brown\Design\DistStd.dgn	USER NAME: dsharr	DESIGNED: LHA	REVISED: J. OBERLE 10-18-95	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED:	REVISED: A. HOUSEH 03-06-96		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	VAR.	2015-0467	COOK	81	79
		DATE: 06-89	REVISED: A. HOUSEH 10-15-96							TC-10			
			REVISED: T. RAMMACHER 01-06-00										
												CONTRACT NO. 62B12	
												FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

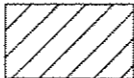







GENERAL NOTES

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 : dhherr	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
PROJECT :	PROJECT :	REVISED - A. HOUSEH 10-12-96	REVISED -
PLOT SCALE = 1/8" = 1' / in.		REVISED - T. RAMMACHER 01-06-00	REVISED -

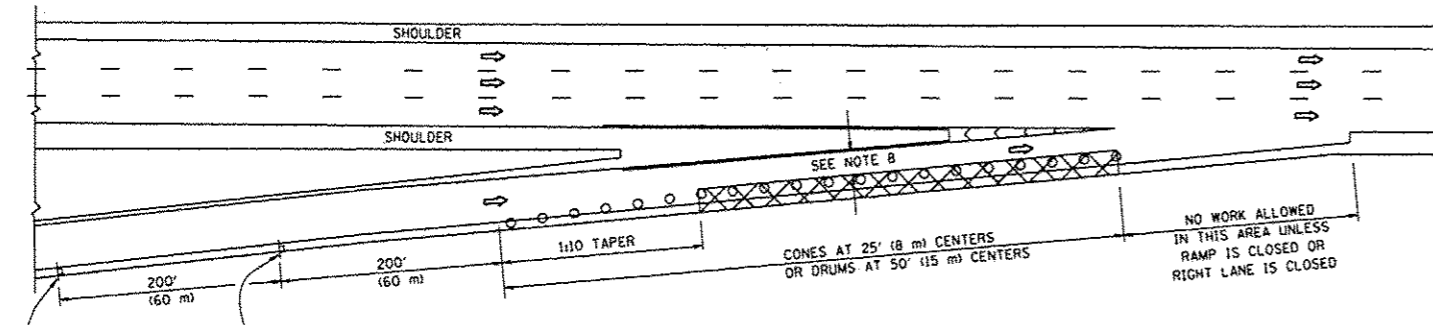
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

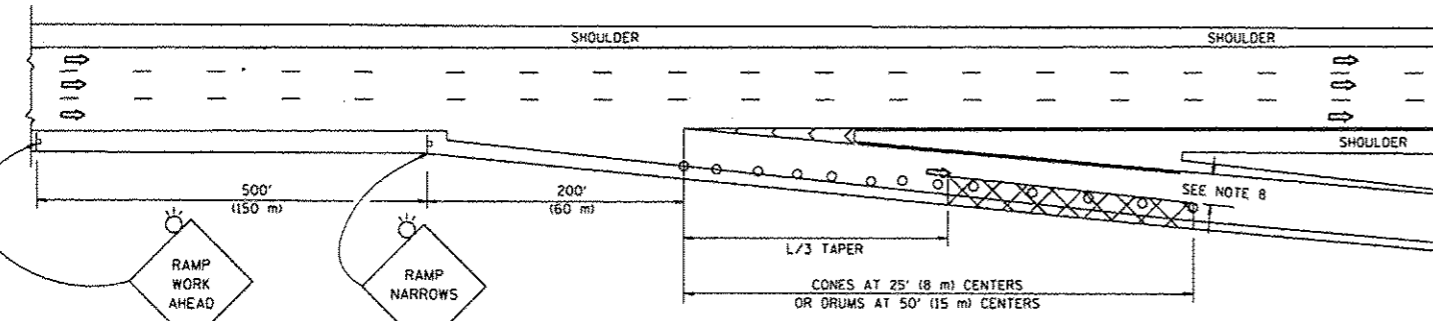
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

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

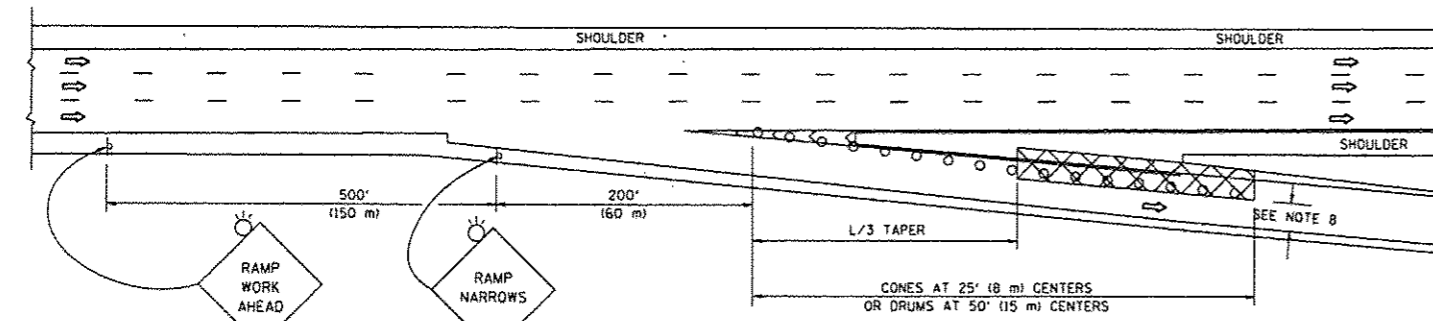
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

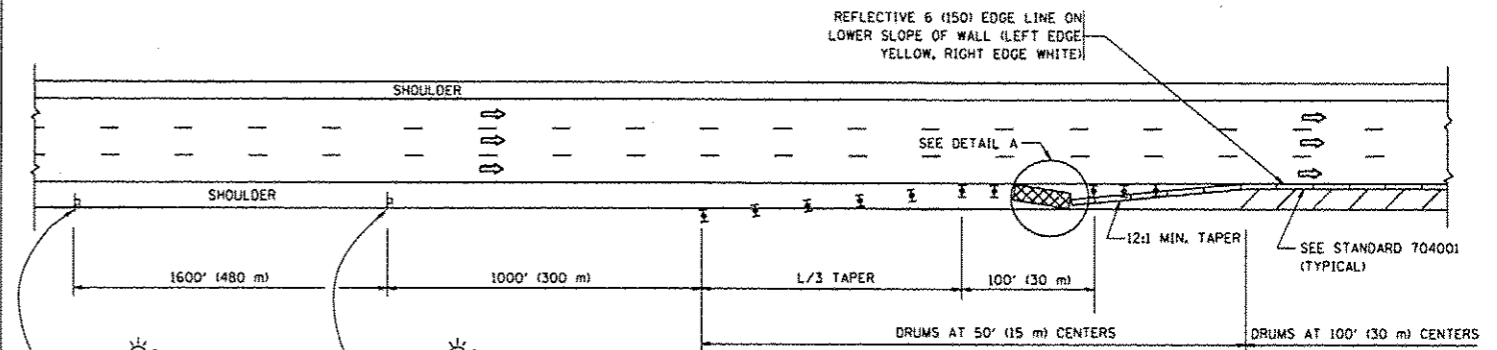
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

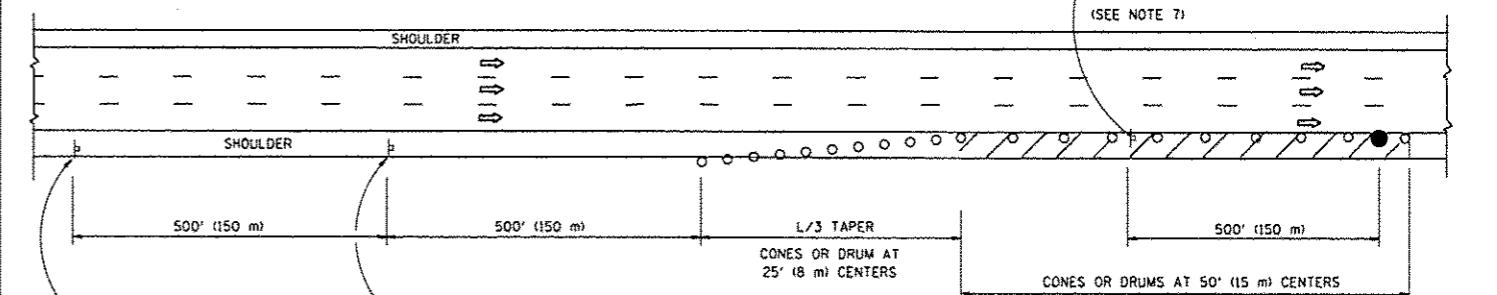
1. THE "L" DISTANCE EQUALS:

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

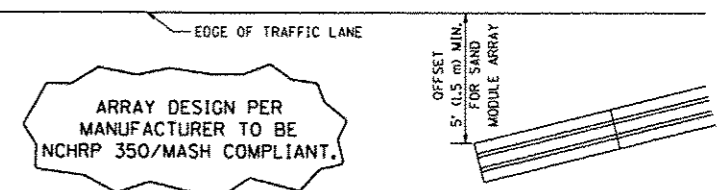


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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



ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

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 ACTIVITY REQUIRES FREQUENT ENCROUGHMENT 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.

FILE NAME	USER NAME: dsham	DESIGNED -	REVISED - J.A.F. 12-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			REVISED - S.P.B. 01-07		SCALE: NONE			VAR.	2015-046T	COOK	81	81
		CHECKED -	REVISED - S.P.B. 12-09		SHEET NO. 1 OF 1 SHEETS				TC-17			
		DATE - 11-96	REVISED - M.D. 06-13		STA. TO STA.			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. 62812				