

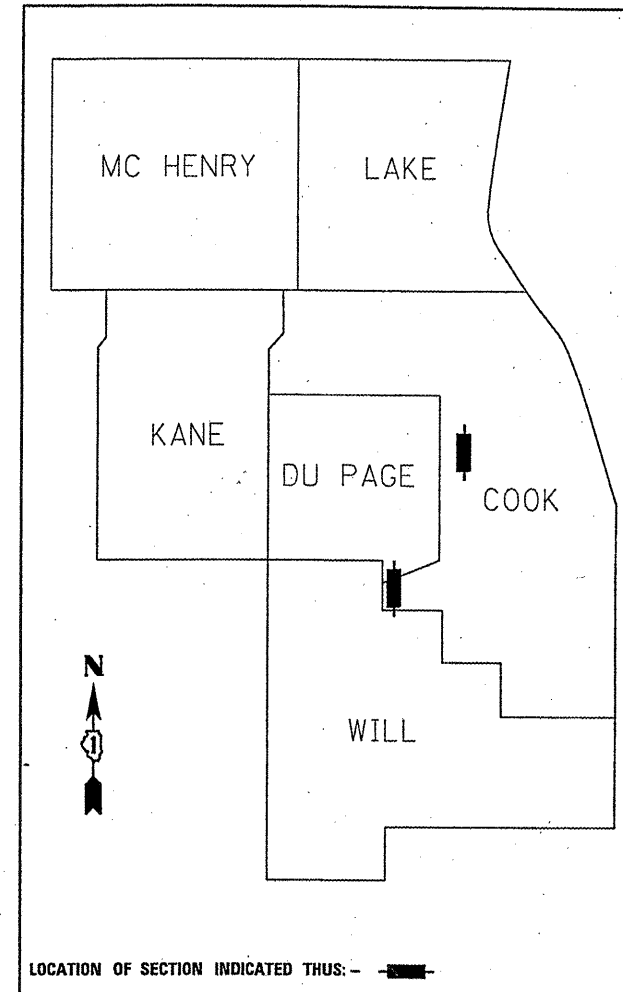
04-27-12 LETTING ITEM 066

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2012-001-1	COOK	27	1
		ILLINOIS	CONTRACT NO. 60T31	

*1) FAU 2612
2) FAP 330

D-91-323-12



FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENTS ARE LOCATED IN THE VILLAGES OF LEMONT AND MELROSE PARK

PROPOSED HIGHWAY PLANS

1) F.A.U. ROUTE 2612: Lemont Rd.
OVER DES PLAINES RIVER, I&M CANAL, RR (SN 016-2504)
2) F.A.P. ROUTE 330: US 12/20/45 (Mannheim Rd)
OVER PROVISO RR YARD (SN 016-0337)
SECTION: 2012-001-1
BRIDGE DRAINAGE SYSTEM REPAIRS
COOK COUNTY
C-91-323-12

SEE LOCATION MAPS
SHEET NO. 4 & 5

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED FEBRUARY 10, 2012
Diane M. O'Keefe DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

MARCH 25, 2012
John D. Baranzelli, P.E. ENGINEER OF DESIGN AND ENVIRONMENT

MARCH 25, 2012
William R. Frey DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PROJECT ENGINEER ROBERT BORO (847) 705-4237
PROJECT MANAGER ISSAM RAYYAN (847) 705-4178

1) GROSS & NET LENGTH = 3352FT. = 0.635 MILE
2) GROSS & NET LENGTH = 1408FT. = 0.267 MILE

CONTRACT NO. 60T31

INDEX OF SHEETS

1 TITLE SHEET
 2 INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
 3 SUMMARY OF QUANTITIES
 4-5 LOCATION MAPS
 6-18 DRAINAGE REPAIR PLANS (SN 016-2504)
 19-26 DRAINAGE REPAIR PLANS (SN 016-0337)
 27 ARTERIAL ROAD INFORMATION SIGN (TC-22)

STATE STANDARDS

701601-07 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVARSABEL MEDIAN
 701801-05 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
 701901-02 TRAFFIC CONTROL DEVICES
 701101-02 OFF-ROAD OPERATIONS, MULTILANE, 15' TO 2' FROM PAVEMENT EDGE
 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

GENERAL NOTES

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.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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 WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

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

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

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

CONTRACTOR SHALL CONTACT MR. BILL MALLOY, DIRECTOR OF TERMINAL OPERATIONS, TO COORDINATE WORK WITH U.P. (UNION PACIFIC) FOR ACCESS TO YARD, SPECIFICALLY, THE AREA UNDER THE MANNHEIM RD. BRIDGE

PIERS 8, 9 AND 10 OF SN 016-2504 ARE LOCATED WITHIN FENCED METROPOLITAN WATER RECLAMATION DISTRICT PROPERTY. ARRANGEMENTS ARE TO BE MADE FOR ACCESSIBILITY.

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

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

*1) FAJ 2612
 2) FAP 330

FILE NAME =	USER NAME = curryw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS GENERAL NOTES		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 3/2/2012	DATE -	REVISED -		ILLINOIS FED. AID PROJECT						

FAU

FAP

SUMMARY OF QUANTITIES			URBAN 100% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0014				
CODE NO	ITEM	UNIT		SN 016-2504 LOC. 1 0014	SN 016-0337 LOC. 2 0014			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	1.5	1.5			
67100100	MOBILIZATION	L SUM	1	0.5	0.5			
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	0.5	0.5			
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.5	0.5			
XX001782	BRIDGE DRAINAGE SYSTEM REPAIRS	FOOT	2232	2108	124			
Z0010605	CLEANING DRAINAGE SYSTEM	L SUM	1	0.5	0.5			
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	102.8	51.4	51.4			
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0.5	0.5			

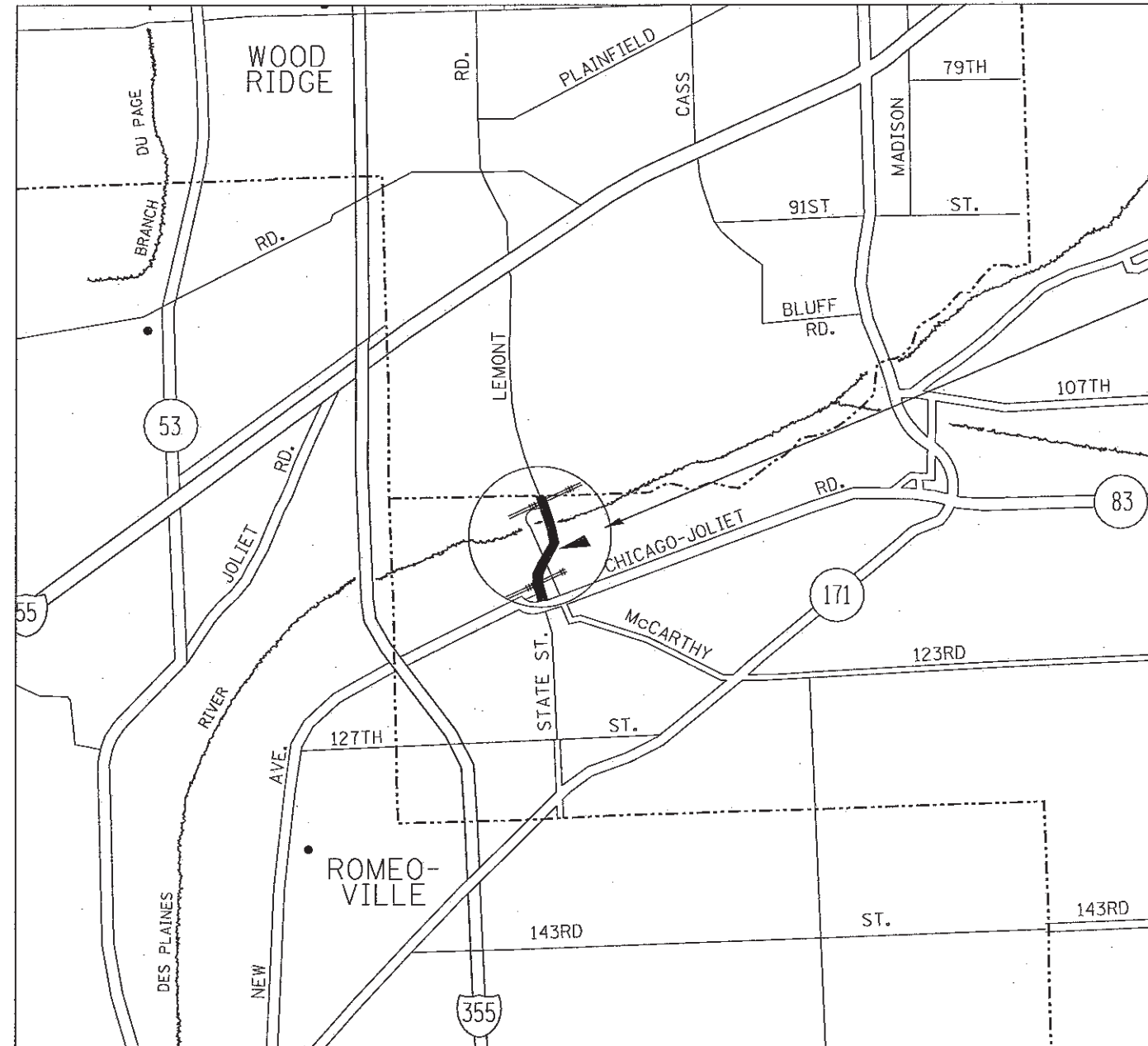
*1) FAU 2612
2) FAP 330

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PLOT DATE = 3/2/2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

R 11 E



T 37 N



LOCATION 1: SN 016-2504
LEMONT AVENUE OVER
DES PLAINES RIVER, I&M CANAL
AND R.R. IN THE VILLAGE OF
LEMONT

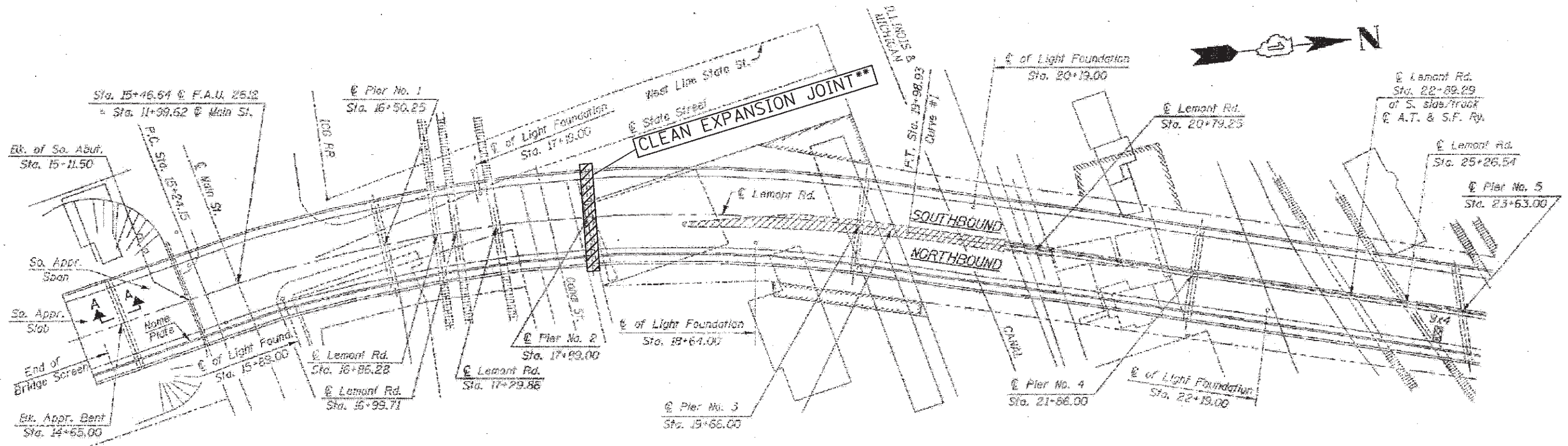
TRAFFIC DATA

LEMONT RD
2010 ADT = 19500
POSTED SPEED LIMIT = 45 MPH

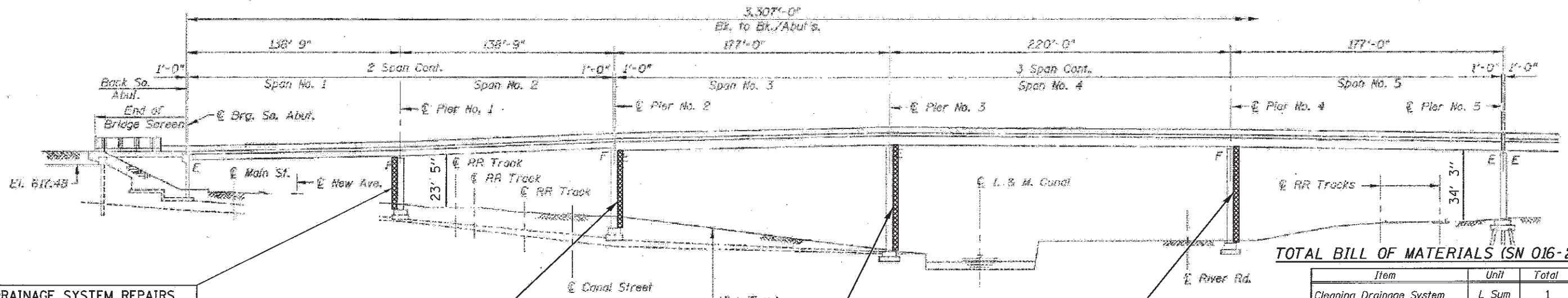
LEMONT TOWNSHIP

*1) FAU 2612
2) FAP 330

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PLOT DATE = 3/2/2012		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		



PLAN



ELEVATION

DRAINAGE SYSTEM REPAIRS ON SOUTH FACE OF PIER 1
 -REMOVE DOWNSPOUT SYSTEM
 DO NOT REPLACE (55FT)

DRAINAGE SYSTEM REPAIRS ON NORTH FACE OF PIER 2
 -REMOVE WESTERN PIPE OF DOWNSPOUT SYSTEM
 DO NOT REPLACE WESTERN PIPE OF DOWNSPOUT (15FT)
 -REPLACE REMAINING PIPE DRAINS (40FT)

DRAINAGE SYSTEM REPAIRS ON NORTH FACE OF PIER 3
 -REMOVE WESTERN PIPE OF DOWNSPOUT SYSTEM
 DO NOT REPLACE WESTERN PIPE OF DOWNSPOUT (15FT)
 -REPLACE REMAINING PIPE DRAINS (60FT)

DRAINAGE SYSTEM REPAIRS ON NORTH FACE OF PIER 4
 -REPLACE ALL PIPE DRAINS (150FT)

TOTAL BILL OF MATERIALS (SN 016-2504)

Item	Unit	Total
Cleaning Drainage System	L Sum	1
Drainage System Repairs	LF	2108

BILL OF MATERIALS (SN 016-2504)

Item	Unit	Total
Drainage System Repairs	LF	335

** CLEAN EXPANSION JOINTS
 -TO BE INCLUDED IN COST OF
 DRAINAGE SYSTEM REPAIRS

*1) FAU 2612
 2) FAP 330

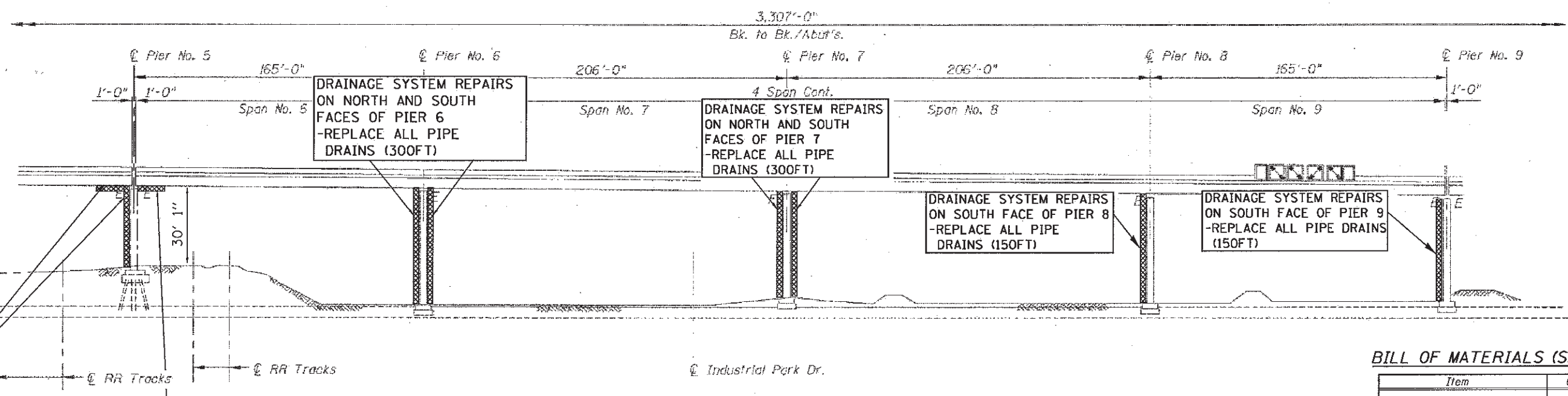
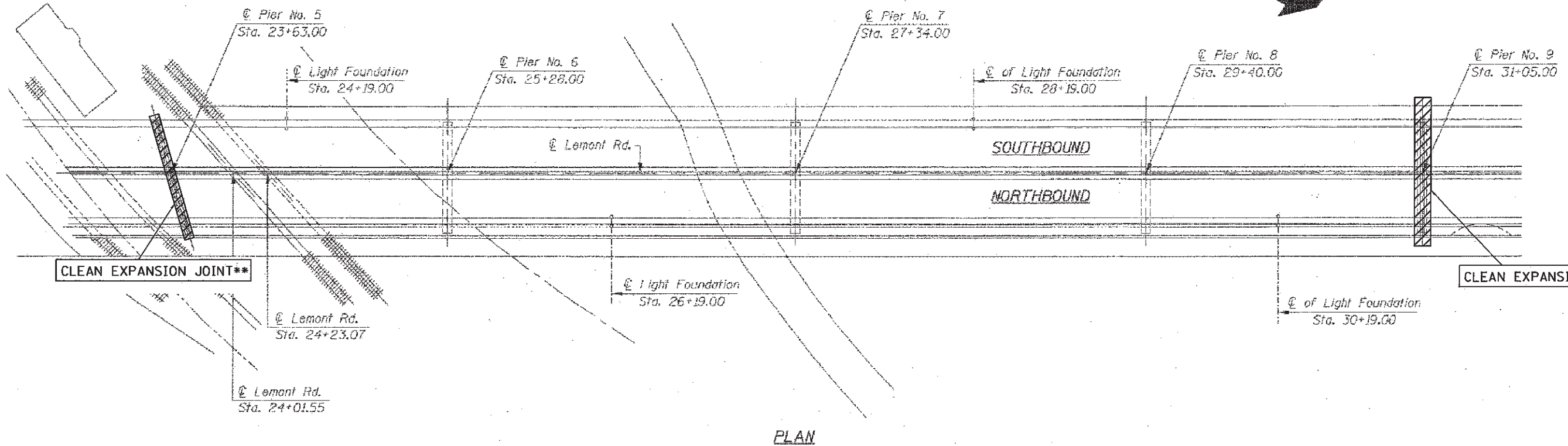
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE REPAIRS
 (SN 016-2504)**

SCALE: SHEET 1 OF 13 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2012-001-1	COOK	27	6
			CONTRACT NO. 60T31	
ILLINOIS FED. AID PROJECT				



DRAINAGE SYSTEM REPAIRS ON NORTH AND SOUTH FACES OF PIER 5
 -REPLACE N.W. SCUPPER CONNECTION PIPE (50FT)
 -REPLACE S.E. SCUPPER CONNECTION PIPE AND ALL S.E. CONNECTION PIPE DRAINS (100FT)

DRAINAGE SYSTEM REPAIRS ON NORTH AND SOUTH FACES OF PIER 6
 -REPLACE ALL PIPE DRAINS (300FT)

DRAINAGE SYSTEM REPAIRS ON NORTH AND SOUTH FACES OF PIER 7
 -REPLACE ALL PIPE DRAINS (300FT)

DRAINAGE SYSTEM REPAIRS ON SOUTH FACE OF PIER 8
 -REPLACE ALL PIPE DRAINS (150FT)

DRAINAGE SYSTEM REPAIRS ON SOUTH FACE OF PIER 9
 -REPLACE ALL PIPE DRAINS (150FT)

BILL OF MATERIALS (SN 016-2504)

Item	Unit	Total
Drainage System Repairs	LF	1050

** CLEAN EXPANSION JOINTS
 -TO BE INCLUDED IN COST OF DRAINAGE SYSTEM REPAIRS

*1) FAU 2612
 *2) FAP 330

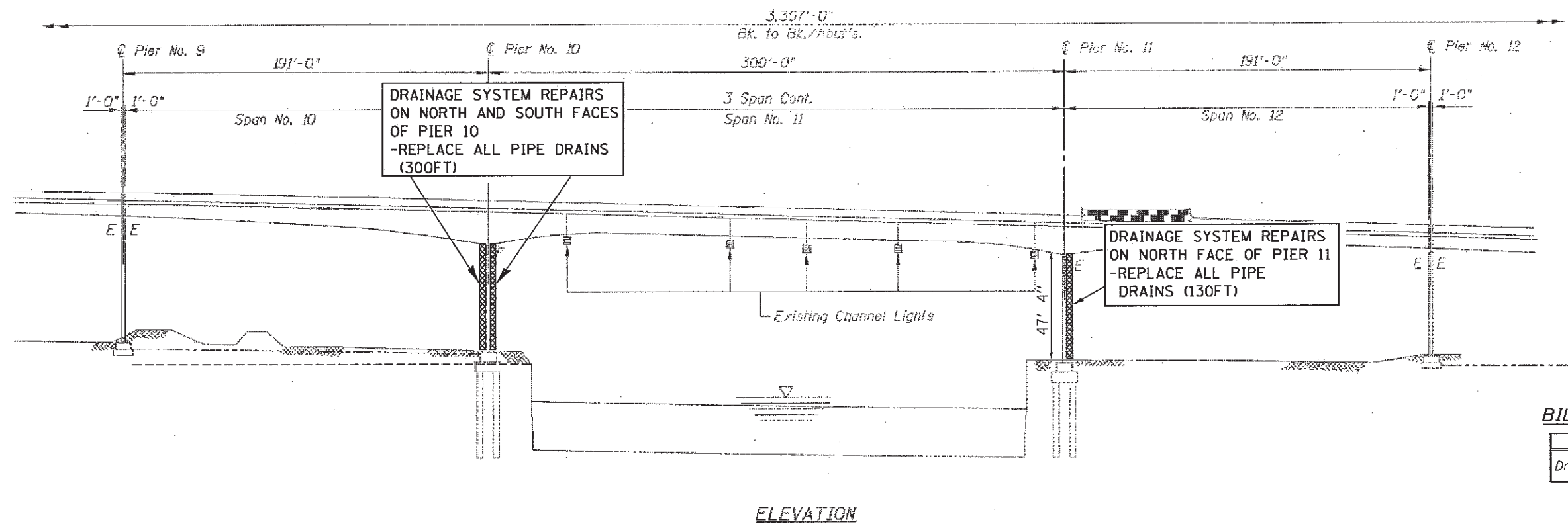
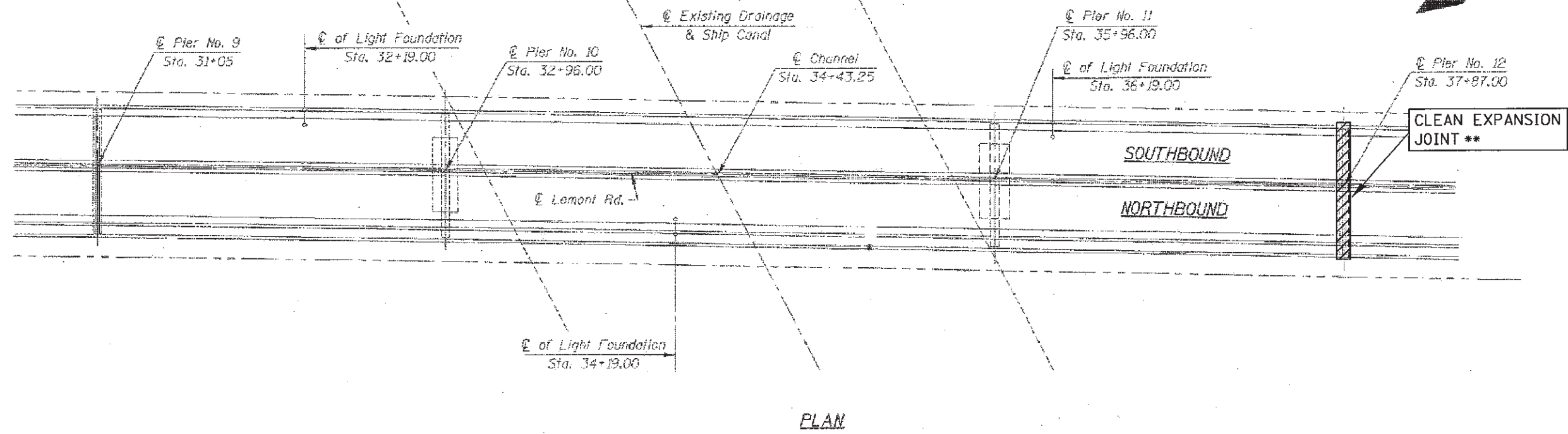
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE REPAIRS
 (SN 016-2504)

SCALE: SHEET 2 OF 13 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2012-001-1	COOK	27	7
CONTRACT NO. 60T31			ILLINOIS FED. AID PROJECT	



BILL OF MATERIALS (SN 016-2504)

Item	Unit	Total
Drainage System Repairs	LF	430

** CLEAN EXPANSION JOINTS
- TO BE INCLUDED IN COST OF
DRAINAGE SYSTEM REPAIRS

*1) FAU 2612
2) FAP 330

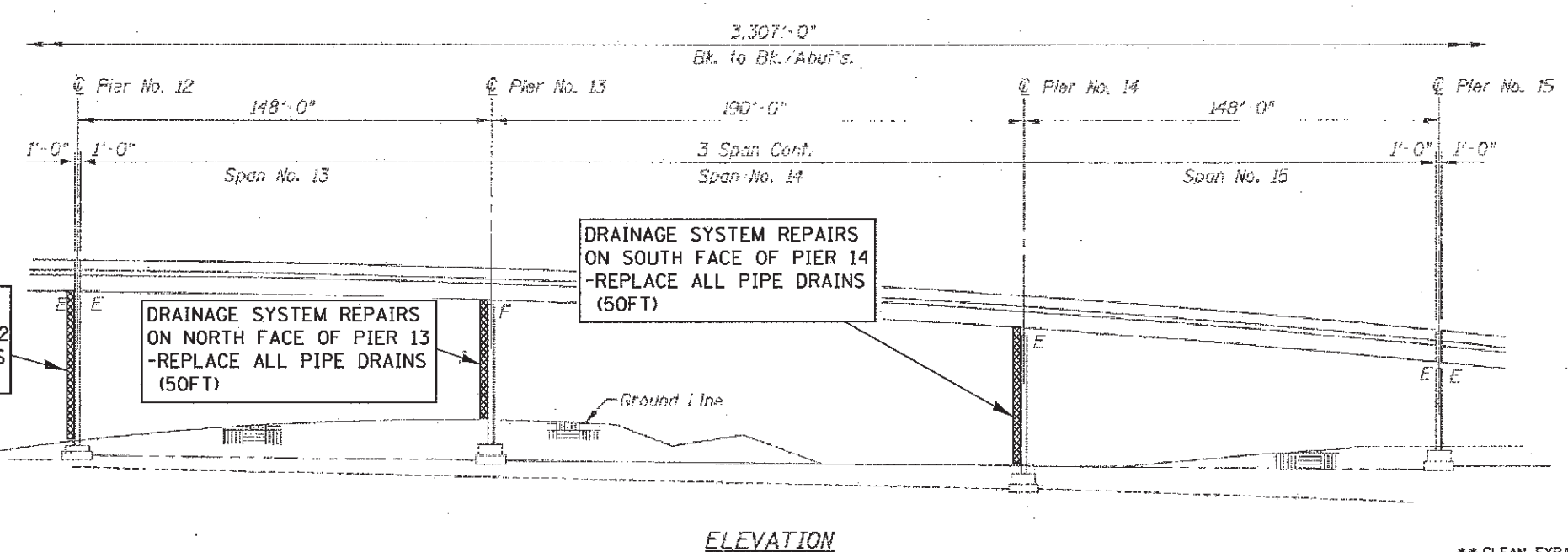
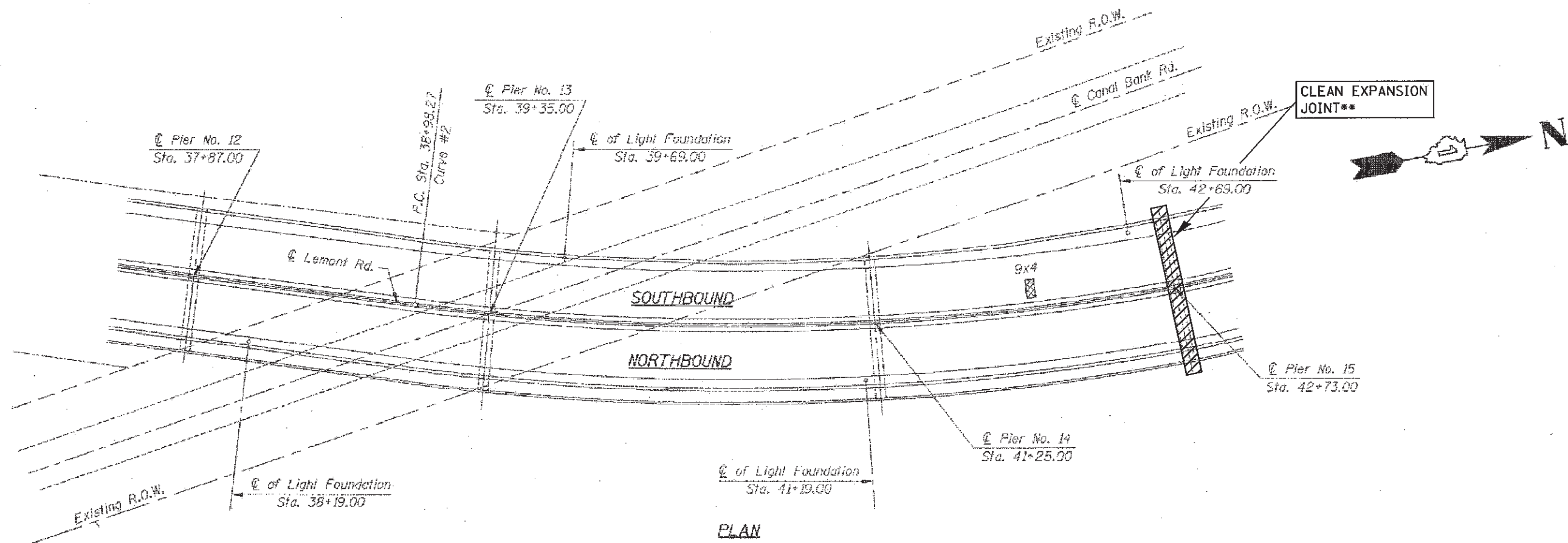
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE REPAIRS
(SN 016-2504)**

SCALE: SHEET 3 OF 13 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 60T31	
ILLINOIS FED. AID PROJECT				



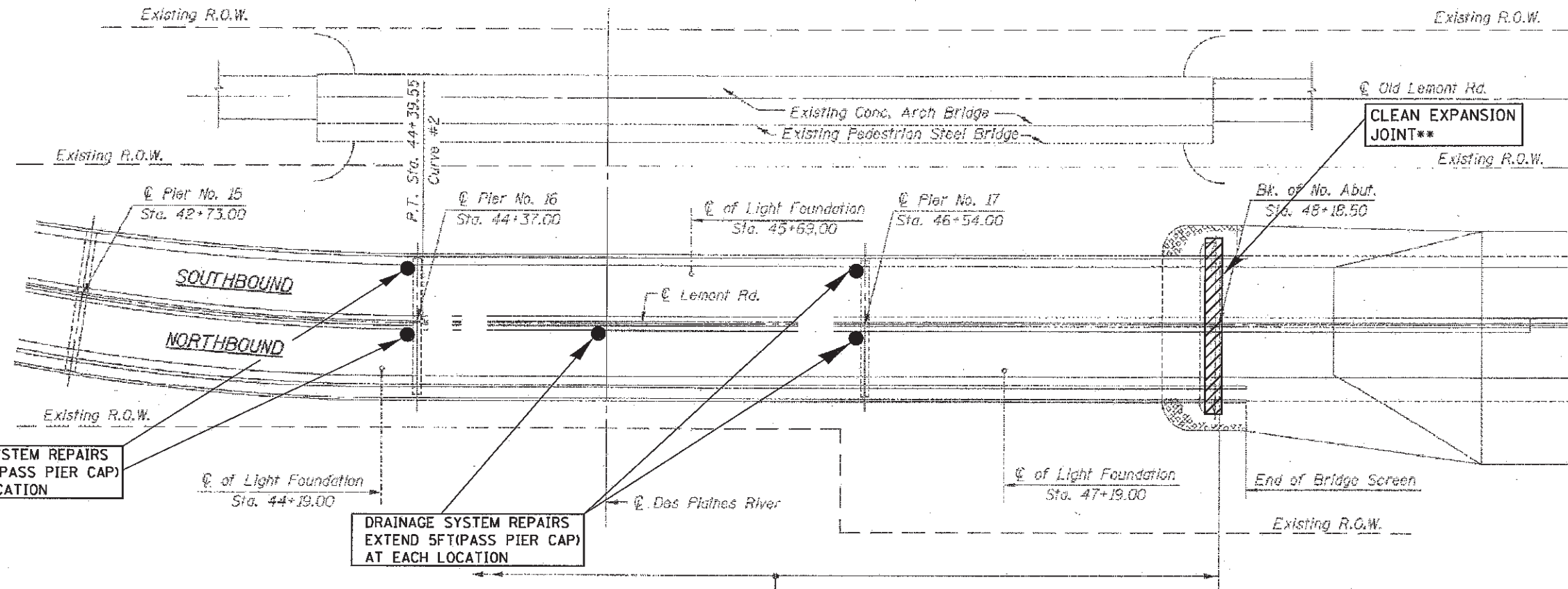
BILL OF MATERIALS (SN 016-2504)

Item	Unit	Total
Drainage System Repairs	LF	230

** CLEAN EXPANSION JOINTS
- TO BE INCLUDED IN COST OF
DRAINAGE SYSTEM REPAIRS

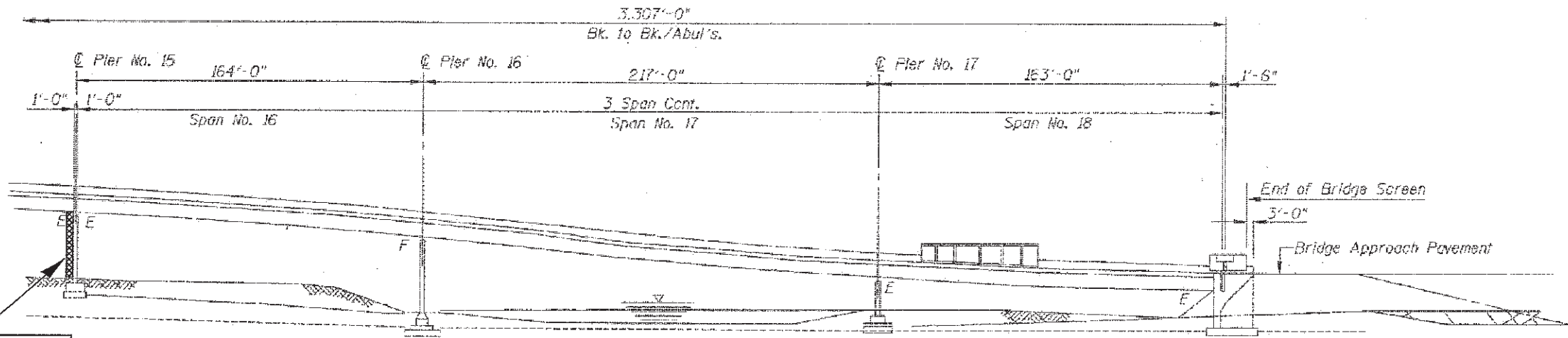
*1) FAU 2612
2) FAP 330

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PLOT DATE = 3/2/2012	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
					SCALE:	SHEET 4 OF 13 SHEETS		STA.	TO STA.	



PLAN

Limits of Bridge Deck Hydro-Scarification 1/2 Inch.
 Bridge Deck Latex Concrete Overlay, 2 1/4 Inch &
 Bridge Deck Grooving from Back of No. Abut. to
 End of So. Appr. Span



ELEVATION

DRAINAGE SYSTEM REPAIRS
 ON SOUTH FACE OF PIER 15
 -REPLACE ALL PIPE DRAINS
 (50FT)

BILL OF MATERIALS (SN 016-2504)

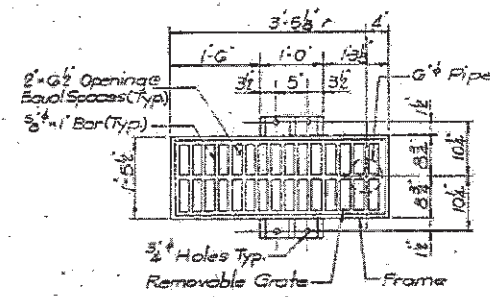
Item	Unit	Total
Drainage System Repairs	LF	63

** CLEAN EXPANSION JOINTS
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 DRAINAGE SYSTEM REPAIRS

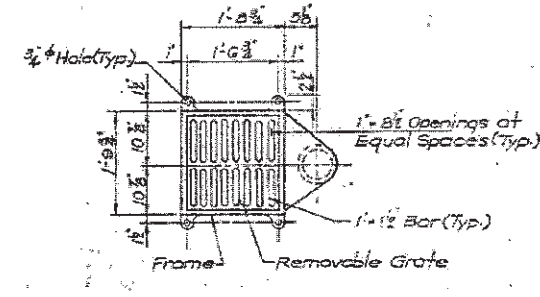
*1) FAU 2612
 2) FAP 330

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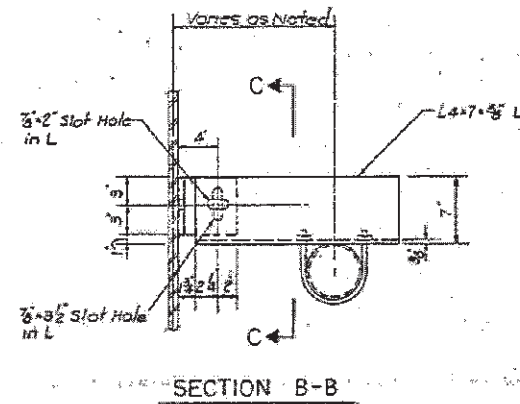
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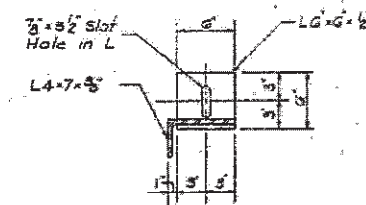
TYPICAL PLAN OF FREE FALL DRAIN AT EAST & WEST CURB



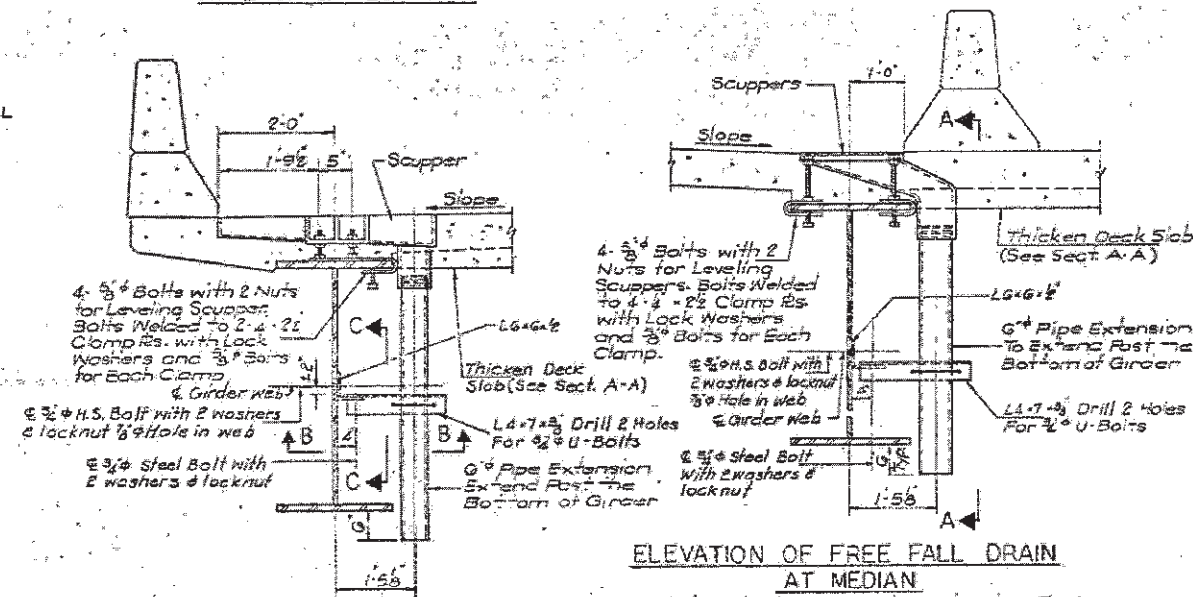
TYPICAL PLAN OF FREE FALL DRAIN AT MEDIAN



SECTION B-B

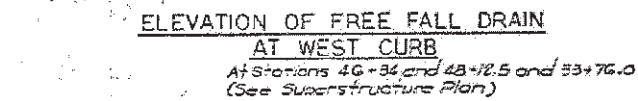


SECTION C-C



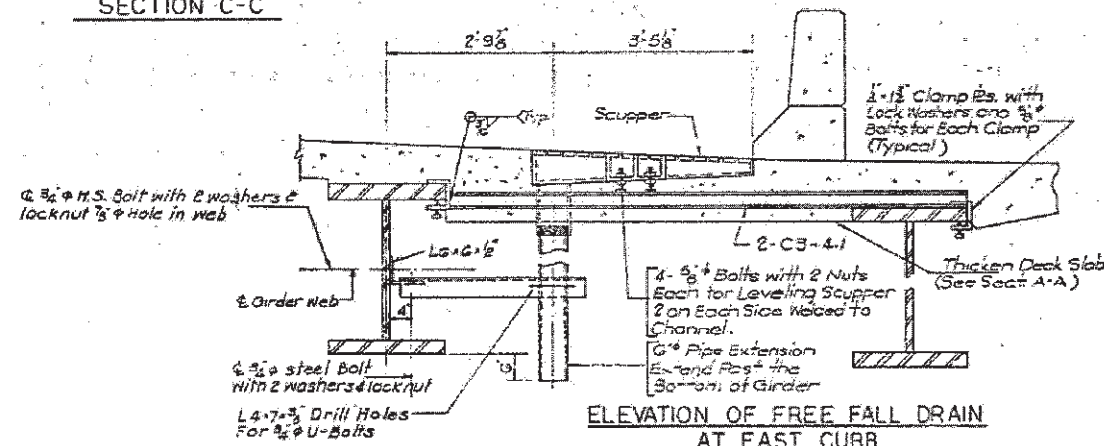
ELEVATION OF FREE FALL DRAIN AT MEDIAN

(At Station 45+20 See Superstructure Plan)

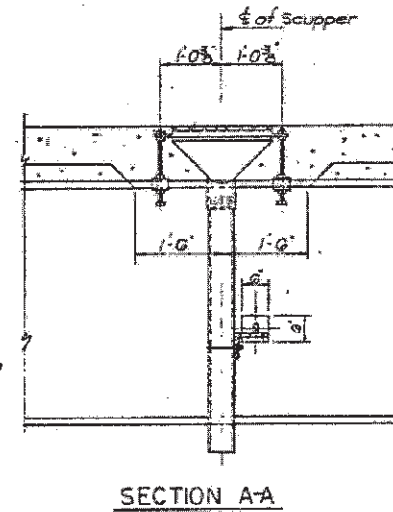


ELEVATION OF FREE FALL DRAIN AT WEST CURB

At Stations 46+34 and 48+12.5 and 53+76.0 (See Superstructure Plan)



ELEVATION OF FREE FALL DRAIN AT EAST CURB



SECTION A-A

BILL OF MATERIALS FOR DECK DRAINAGE

ITEM	UNIT	QUANTITY
1 Scupper 3'-9" x 1'-6"	Each	42
2 Scupper 1'-9" x 1'-10"	Each	9
3 Pipe 6"	Lin. Ft.	255
4 3/4" H.S. Bolts	No.	500
5 Downspout - 8" Tube	Lin. Ft.	1410
6 Downspout - 8" Tube	Lin. Ft.	250
7 Reducer Type 'A'	Each	22
8 Cap R. for Reducer Type 'A'	Each	22
9 Reducer Type 'B'	Each	18
10 Cap R. for Reducer Type 'B'	Each	18
11 Misc. Structural Support Steel	Lbs.	8170
12 U-Bolts with 2 Nuts and Washers	Each	86
13 Expansion Anchors w/Nuts & Washers	Each	480
14 Concrete Splash Blocks	Each	29

Note:

- Purchasing and erecting of Scuppers and Deck Drainage will be paid for at a Lump Sum Price for Deck Drainage System.
- Scuppers and Grates shall be ductile Iron Castings. Pipes, downspouts, including specials, and accessories shall be Corrosion Resistant Steel. See Special Provisions.
- In lieu of the corrosion resistant pipe and tubing detailed on the plans for the deck drainage system, the Contractor may, at his option, substitute reinforced fiberglass pipe and fittings as specified in the Special Provisions. Slings, clamps, chain hangers, shoe supports, straps and other hardware may be galvanized in accordance with the applicable provisions of AASHTO M232 or AASHTO M111, in lieu of the requirement for corrosion resistant material.

BRIDGE DRAINS DETAILS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

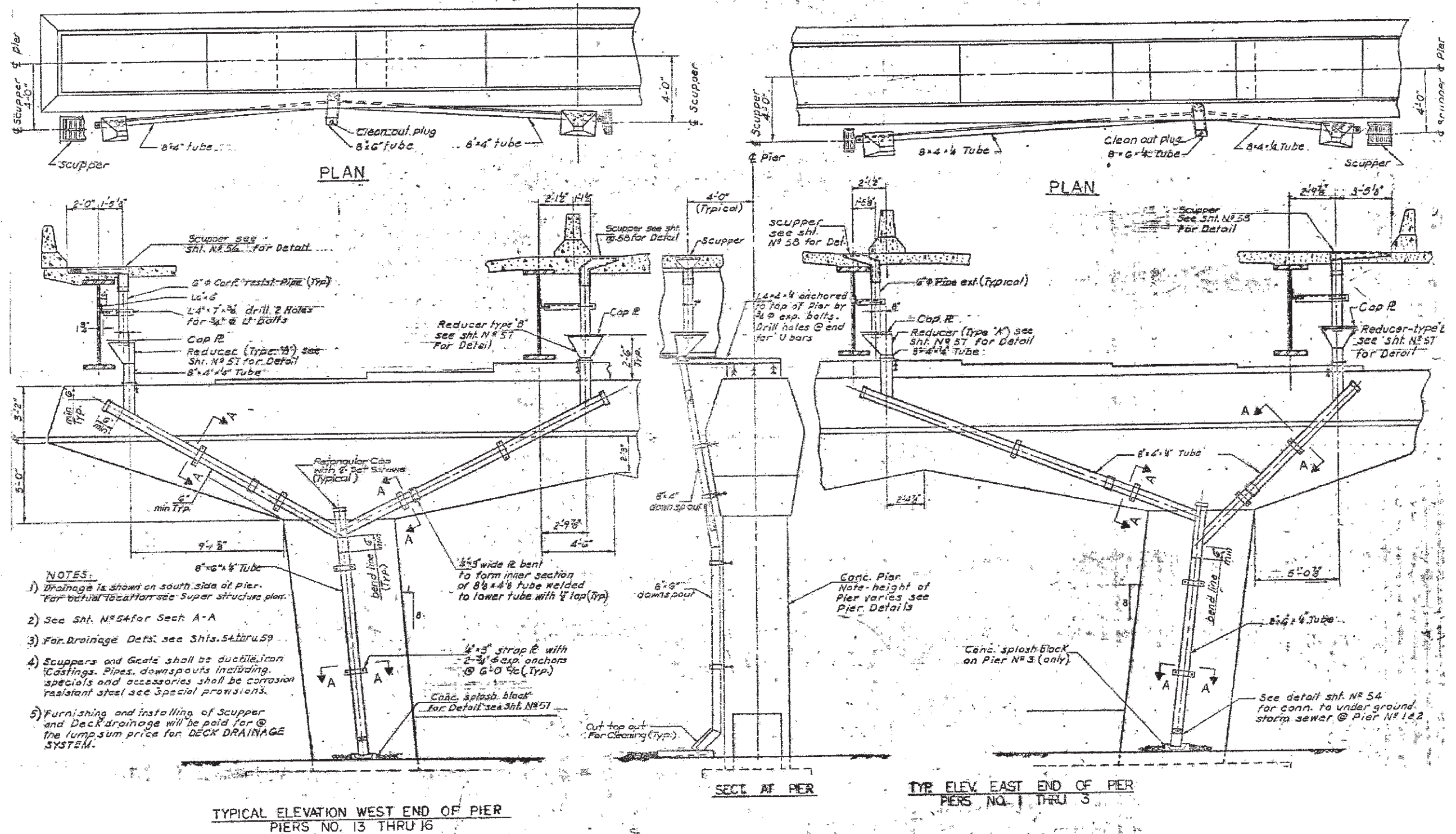
DRAINAGE REPAIRS
(SN 016-2504)

SCALE: SHEET 6 OF 13 SHEETS STA. TO STA.

*1) FAU 2612
2) FAP 330

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2012-001-1	COOK	27	11
CONTRACT NO. 60T31			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

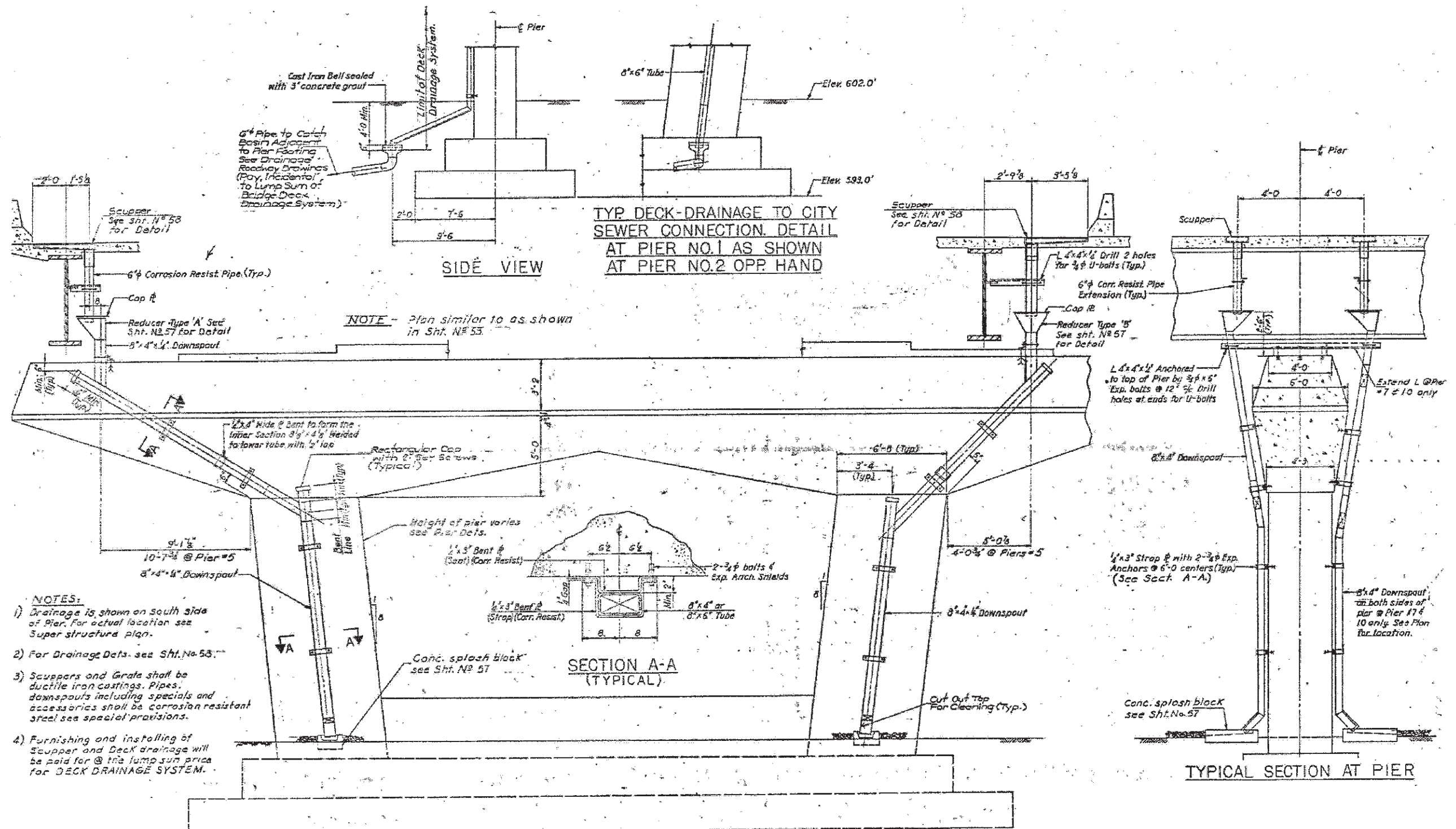


BRIDGE DECK DRAINAGE DETAILS

*1) FAU 2612
2) FAP 330

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FOR INFORMATION ONLY

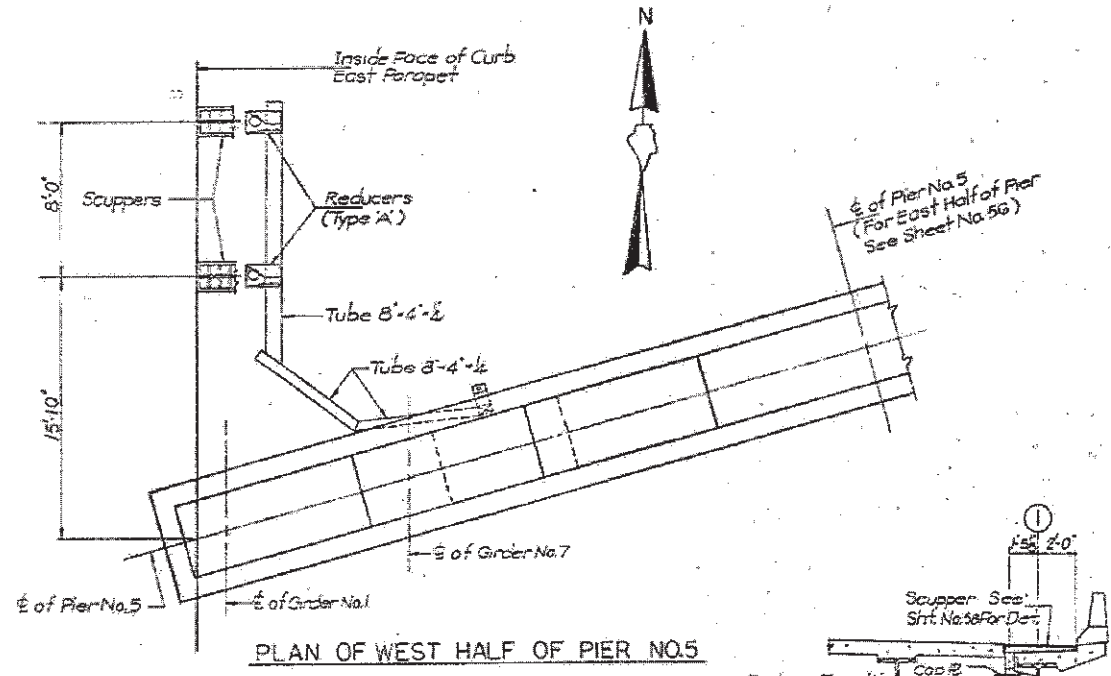


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PLOT DATE = 3/2/2012	DATE -	REVISED -							ILLINOIS FED. AID PROJECT	

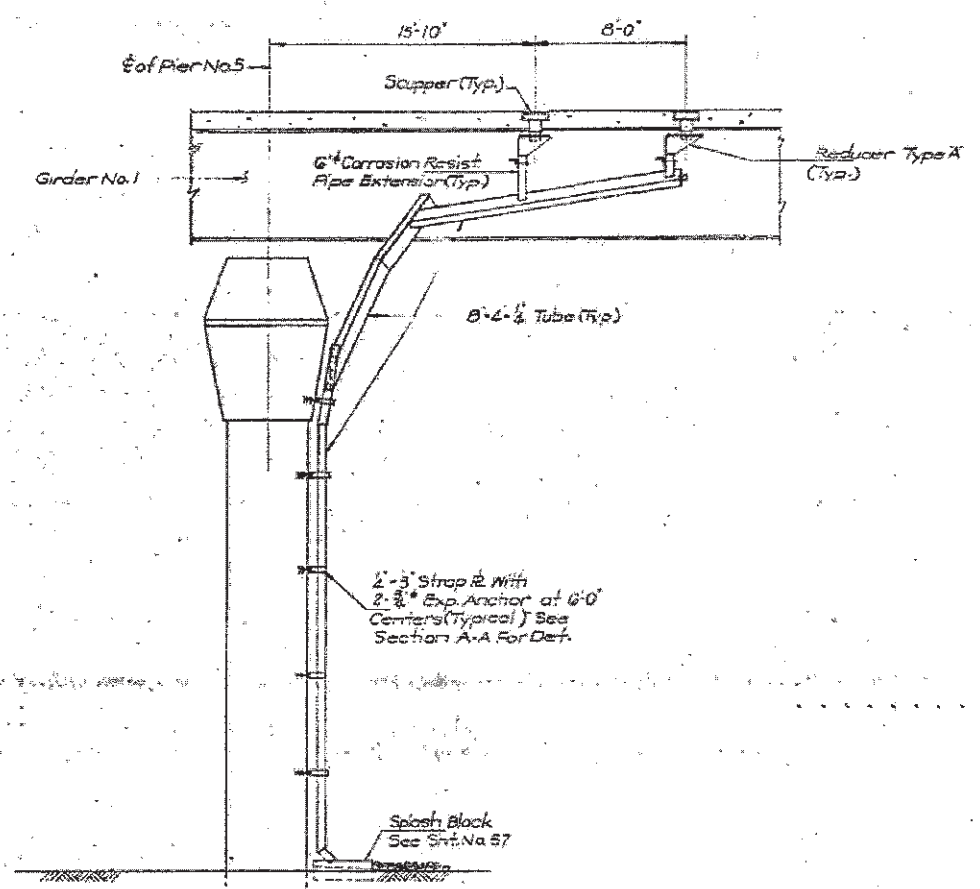
*1) FAU 2612
2) FAP 330

SCALE: SHEET 8 OF 13 SHEETS STA. TO STA.

FOR INFORMATION ONLY

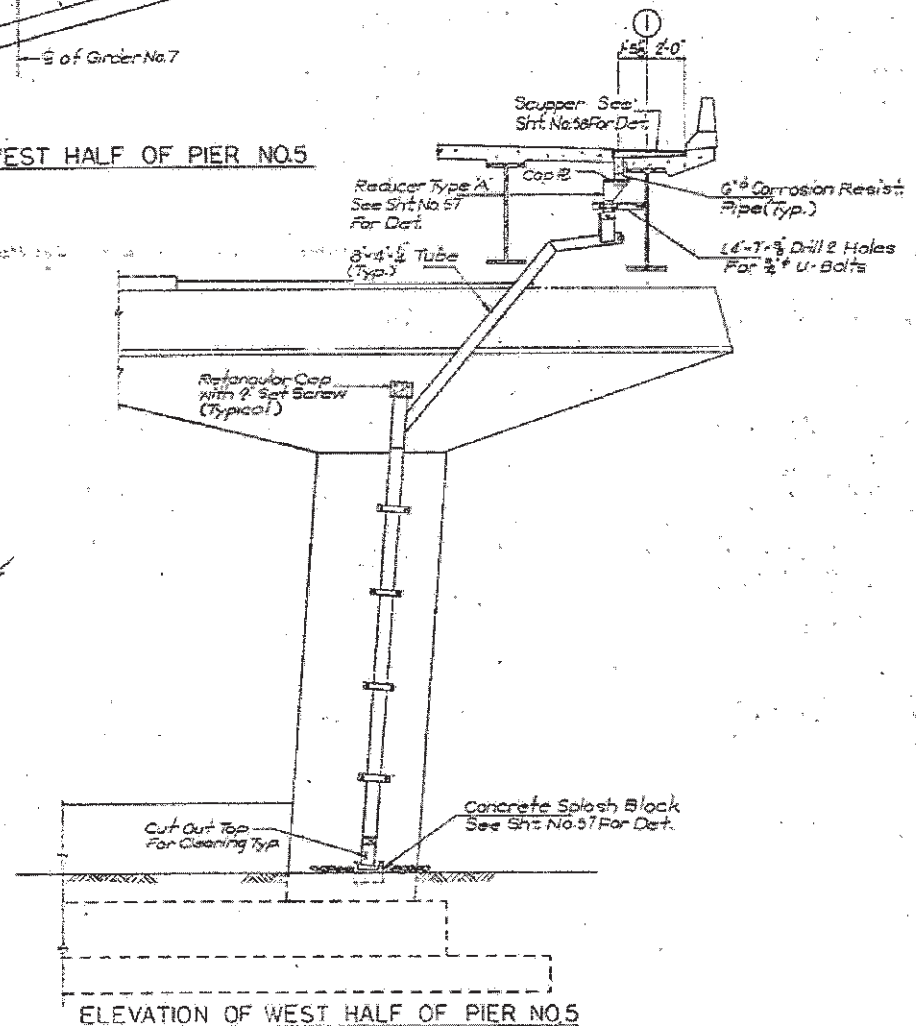


PLAN OF WEST HALF OF PIER NO.5



SECTION OF PIER NO. 5
(LOOKING WEST)

- NOTES:**
1. For actual location of Drainage See Superstructure Plans.
 2. For Drainage Details See Sht. No. 58.
 3. Scuppers and Grates shall be ductile Iron Castings. Pipes, downspouts, including Specials and accessories shall be Corrosion Resistant Steel. See Special Provision.
 4. Furnishing and Erecting of Scuppers and Deck Drainage will be paid for at a Lump Sum Price for Deck Drainage System.
 5. See Sht. No. 54 For Sect. A-A.



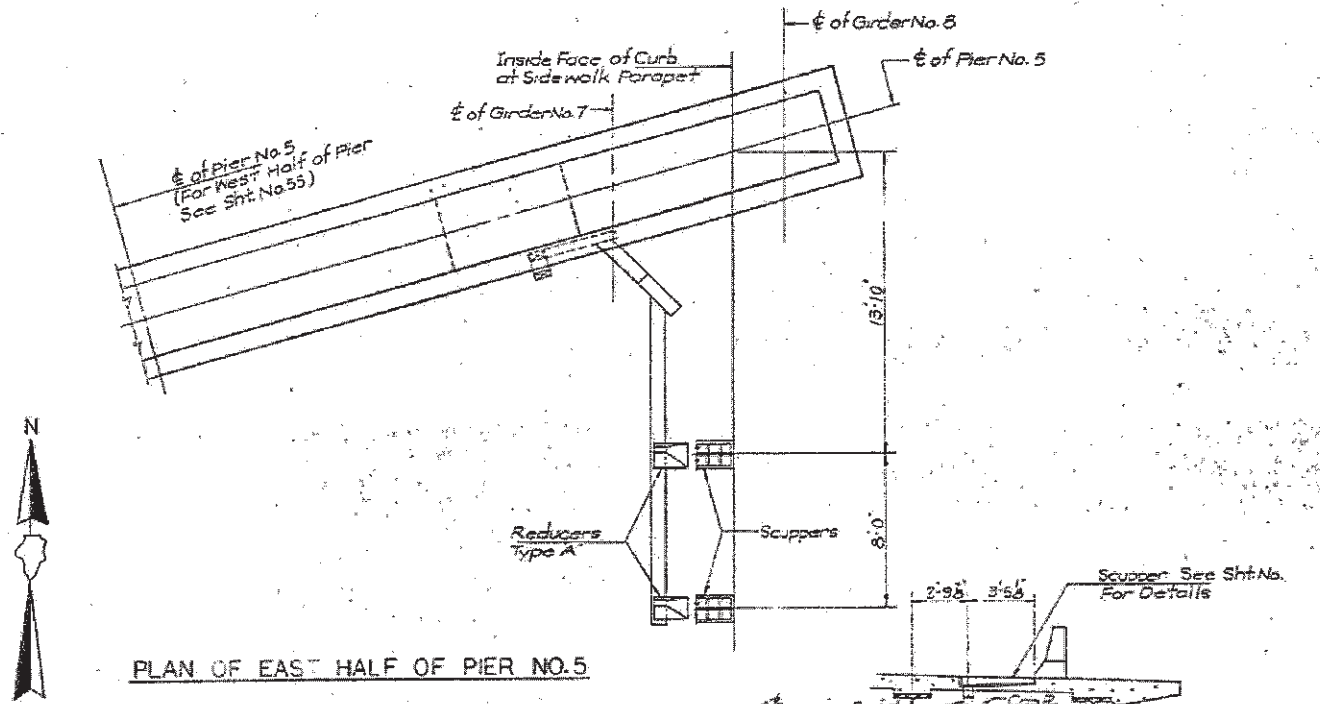
ELEVATION OF WEST HALF OF PIER NO.5

BRIDGE DECK DRAINAGE DETAILS

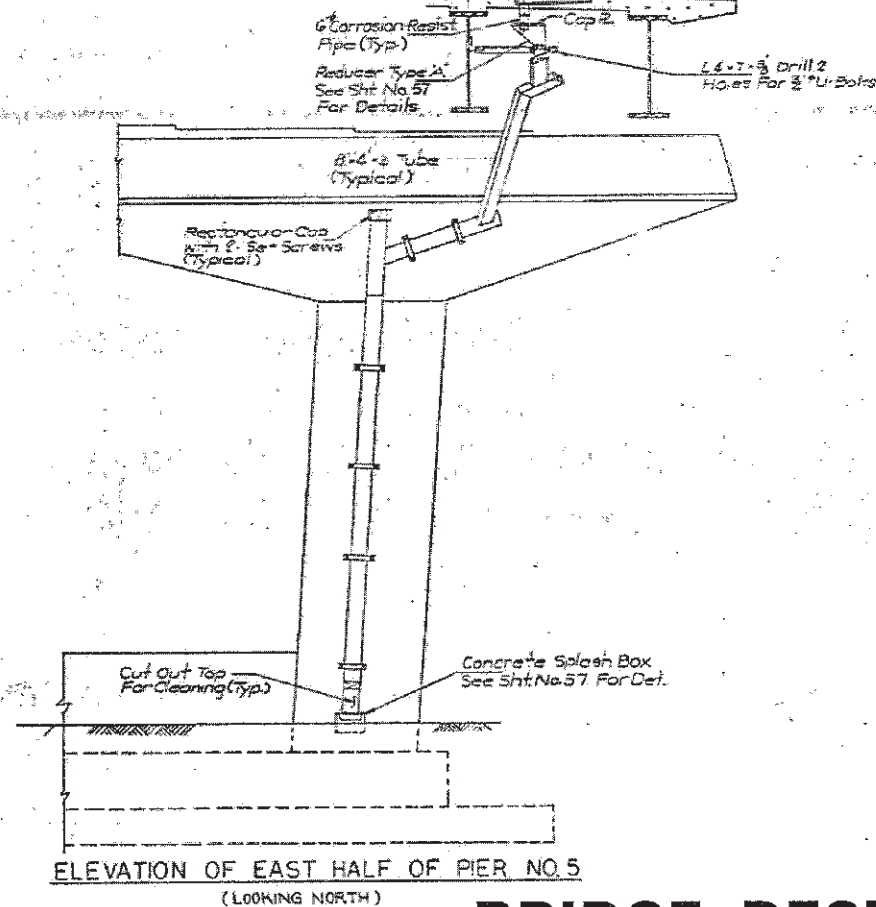
*1) FAU 2612
2) FAP 330

FILE NAME =	USER NAME = curryw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE REPAIRS (SN 016-2504)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
m:\pwork\pwork\curryw\d0296919\013232-Design\	DRAWN -	REVISED -	REVISED -			*	2012-001-1	COOK	27	14	
PLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 60T31					
PLOT DATE = 3/2/2012	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET 9 OF 13 SHEETS	STA.	TO STA.				

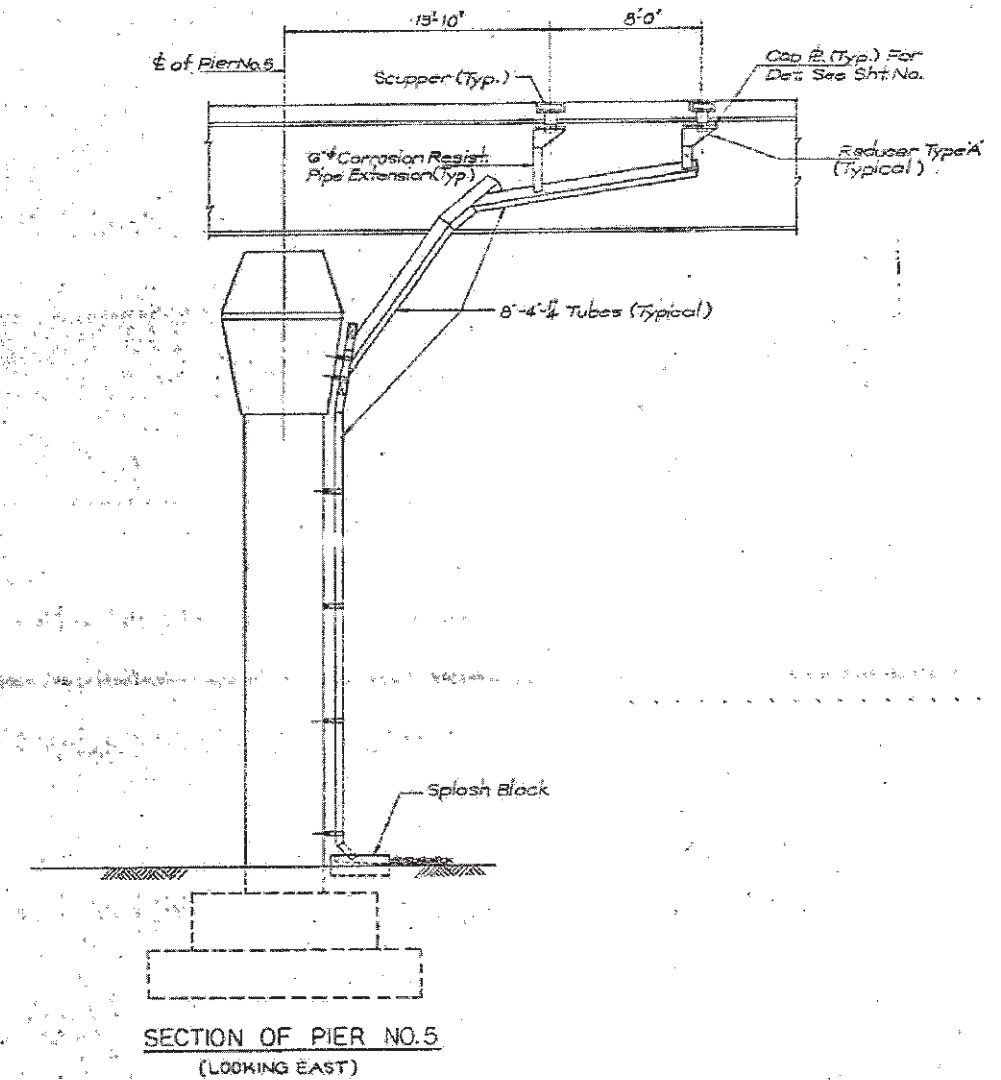
FOR INFORMATION ONLY



PLAN OF EAST HALF OF PIER NO. 5



ELEVATION OF EAST HALF OF PIER NO. 5
(LOOKING NORTH)



SECTION OF PIER NO. 5
(LOOKING EAST)

NOTES:

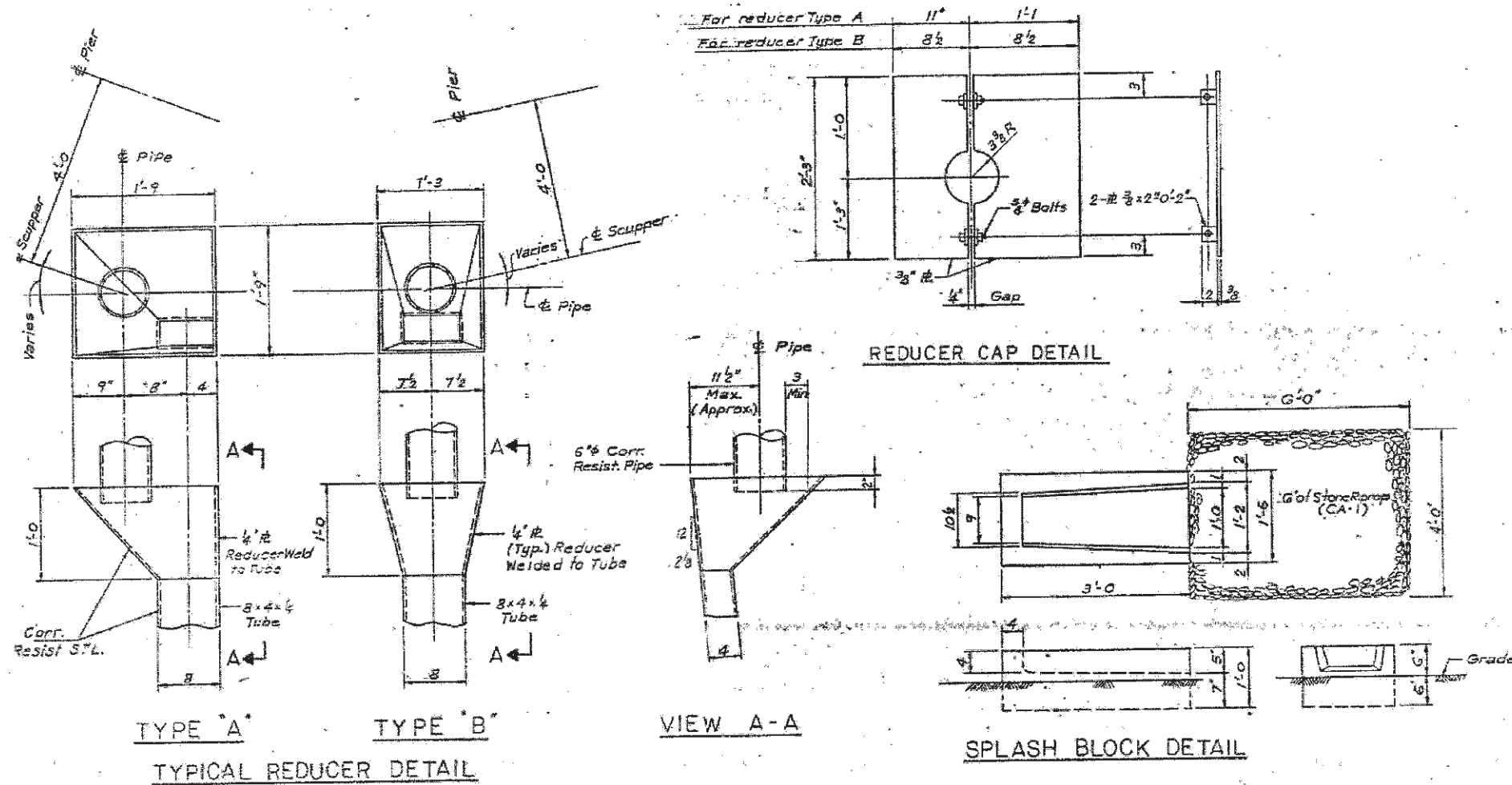
1. For actual location of drainage see Superstructure Plans.
2. For Drainage Details see Sht. No. 56.
3. Scuppers and Grates shall be ductile iron castings. Pipes, downspouts, including spacers, and accessories shall be Corrosion Resistant Steel. See Special Provision.
4. Furnishing and Erecting of Scuppers and Deck Drainage will be paid for at a Lump Sum Price for Deck Drainage System.
5. See Sht. No. 54 For Sect. A-A.

BRIDGE DECK DRAINAGE DETAILS

*1) FAU 2612
2) FAP 330

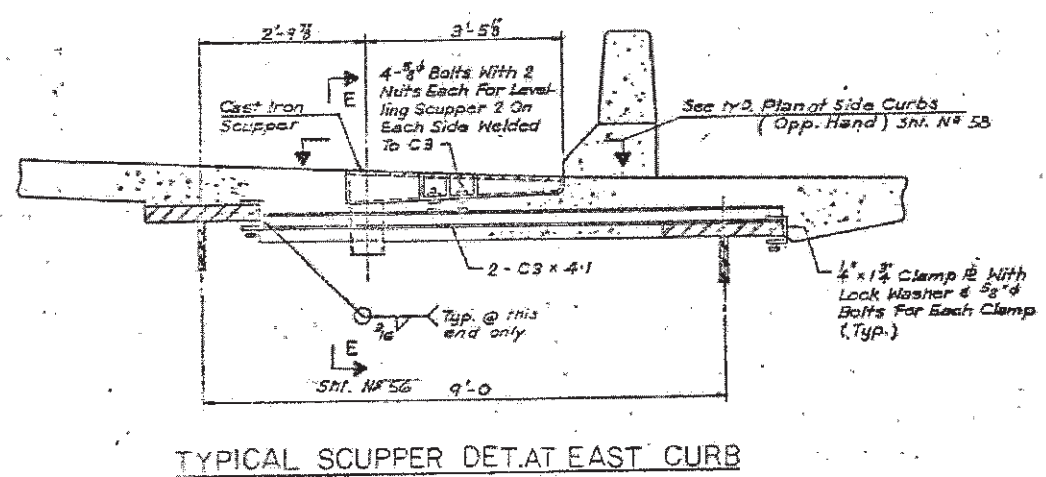
FILE NAME =	USER NAME = curryw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE REPAIRS (SN 016-2504)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
o:\pwork\pudat\curryw\08298919\0322	2-Design.dgn	DRAWN -	REVISED -			*	2012-001-1	COOK	27	15	
PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -			CONTRACT NO. 60T31		ILLINOIS FED. AID PROJECT			
PLOT DATE = 3/2/2012		DATE -	REVISED -			SCALE:	SHEET 10 OF 13 SHEETS	STA.	TO STA.		

FOR INFORMATION ONLY



For reducer Type A	11"	1'-1"
For reducer Type B	8 1/2"	8 1/2"

- NOTES:**
- 1) For further Deck Drainage Dets. see sht. #52 thru 59
 - 2) For reinforcement Dets. @ Scuppers see Sht. #42
 - 3) Scuppers and grate shall be ductile iron Castings. Pipes, down spouts including specials and accessories shall be corrosion resistant steel see special provisions.
 - 4) Furnishing and installing of Scuppers and Deck drainage will be paid for of the lump sum price for DECK DRAINAGE SYSTEM.

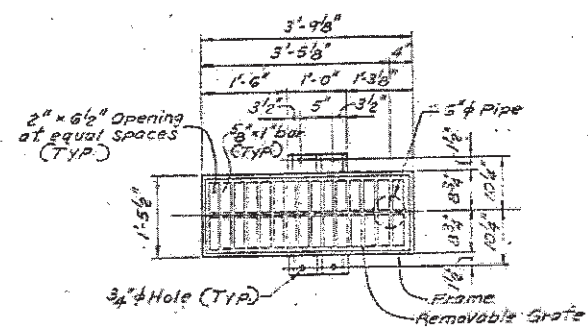


BRIDGE DECK DRAINAGE DETAILS

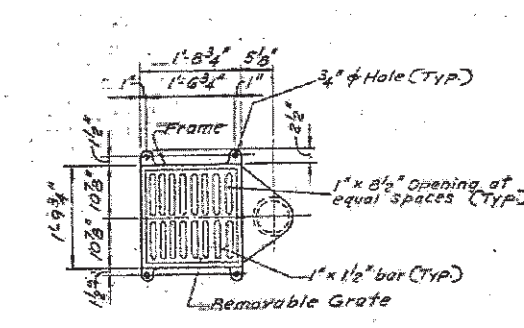
FILE NAME =	USER NAME = curryw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE REPAIRS (SN 016-2504)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLT SCALE = 100,0000' / in.	CHECKED -	REVISED -	REVISED -			* 2012-001-I	COOK	27	16	
PLT DATE = 3/2/2012	DATE -	REVISED -	REVISED -			CONTRACT NO. 60T31			ILLINOIS FED. AID PROJECT	
						SCALE:	SHEET 11 OF 13 SHEETS	STA.	TO STA.	

*1) FAU 2612
2) FAP 330

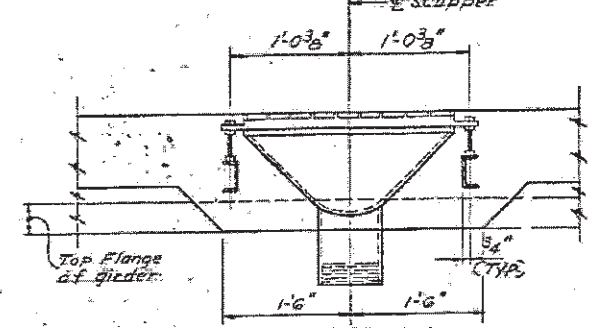
FOR INFORMATION ONLY



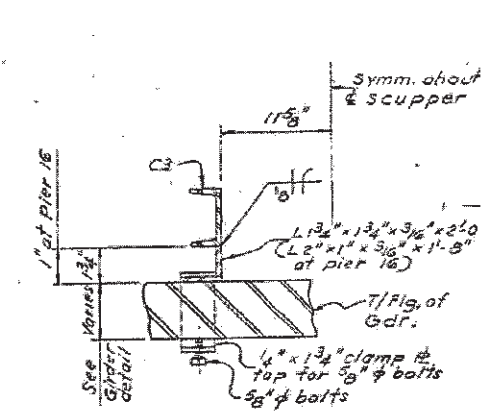
TYPICAL PLAN AT SIDE CURBS



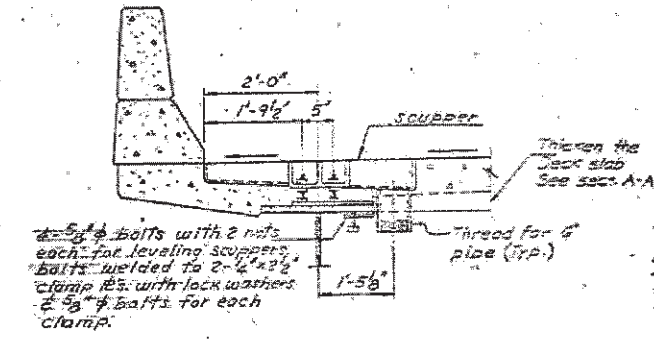
TYPICAL PLAN AT MEDIAN



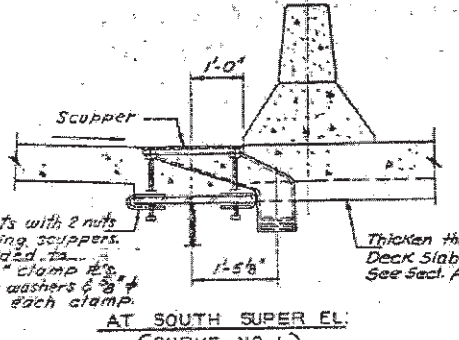
SECTION A-A
SECTION E-E (Sht. No 55 Similar)



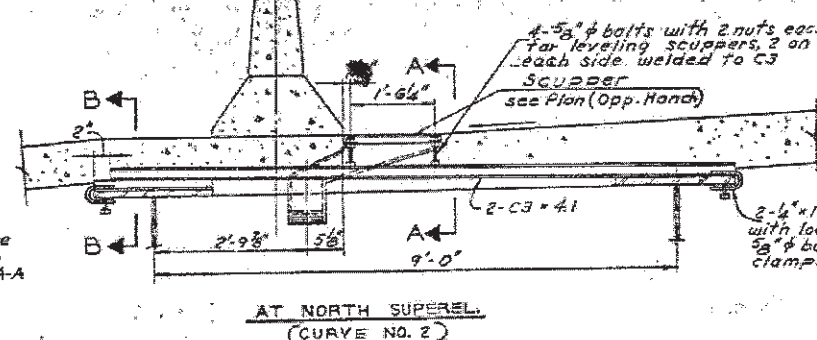
SECTION B-B



TYPICAL SCUPPER DETAIL AT WEST CURB

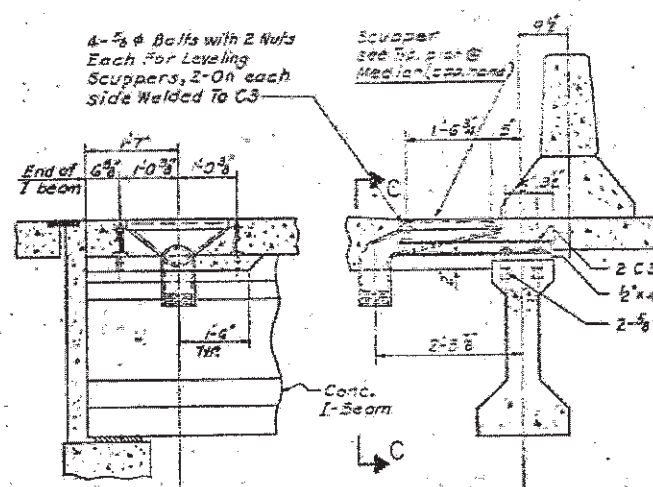


AT SOUTH SUPER ELEV.
(CURVE NO. 1)

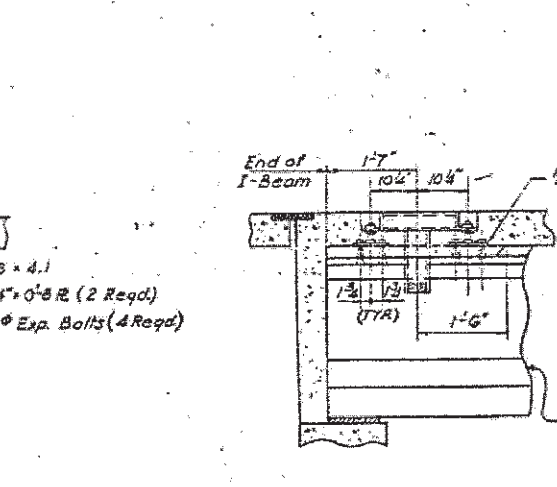


AT NORTH SUPER ELEV.
(CURVE NO. 2)

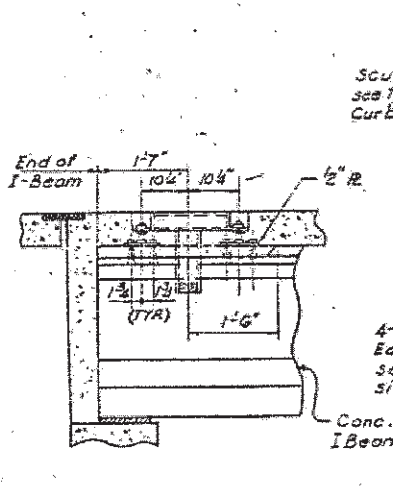
TYPICAL SCUPPER DETAILS AT MEDIAN



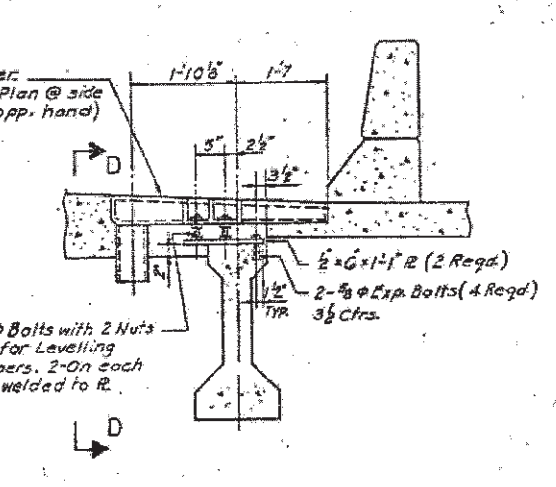
SECT. C-C



DETAIL - A
SCUPPER AT MEDIAN AT SOUTH ABUTMT.



SECT. D-D



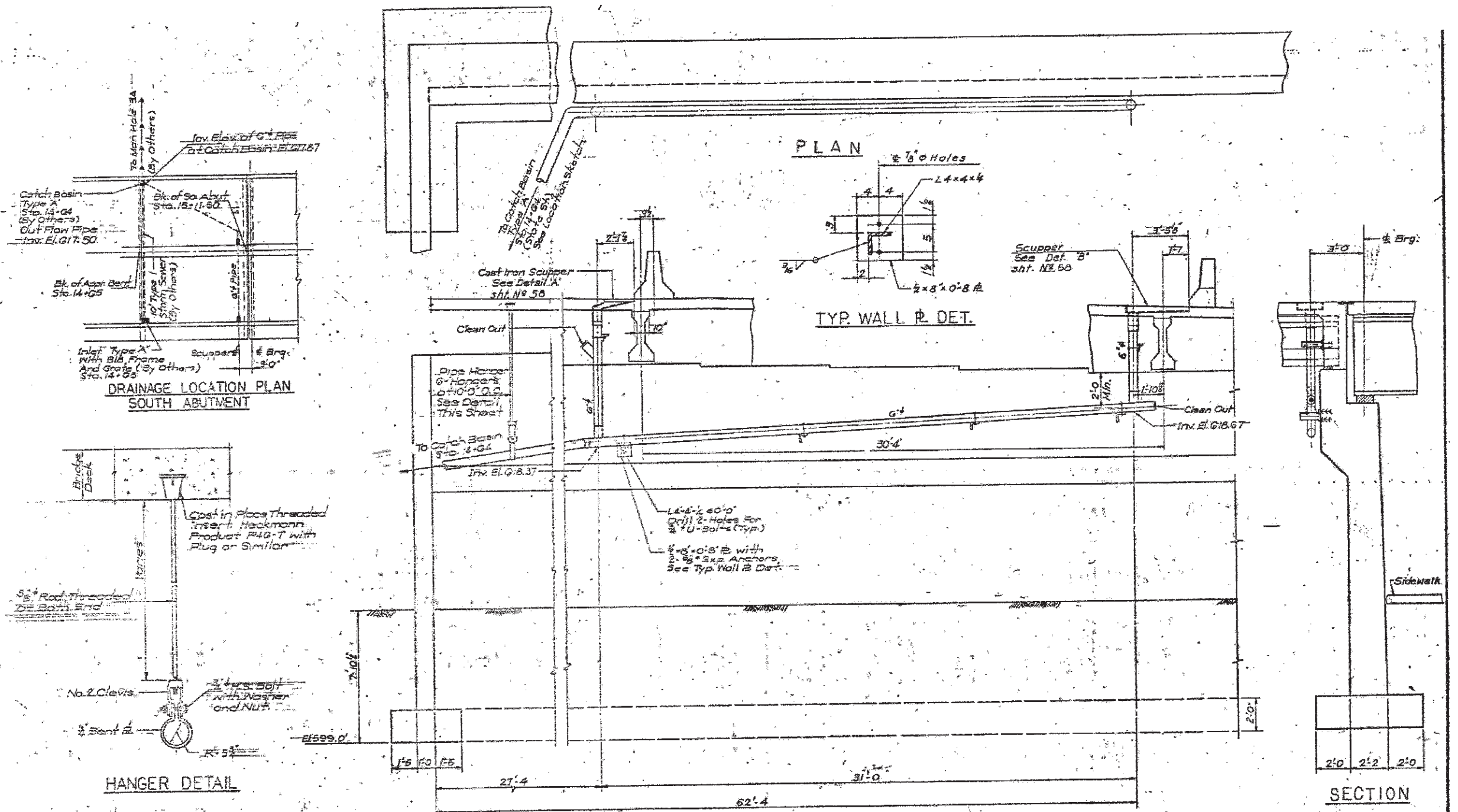
DETAIL - B
SCUPPER AT EAST CURB AT SO. ABUTMT.

- NOTES:**
- 1) For further Deck Drainage Dets. see Sht. #52 thru 59
 - 2) For reinforcement Dets. @ Scuppers see Sht. #42
 - 3) Scuppers and grate shall be ductile iron Castings. Pipes, downspouts including specials and accessories shall be corrosion resistant steel see special provisions.
 - 4) Furnishing and installing of Scuppers and Deck drainage will be paid for at the lump sum price for DECK DRAINAGE SYSTEM.

BRIDGE DECK DRAINAGE DETAILS

FILE NAME =	USER NAME = curryw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE REPAIRS (SN 016-2504)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
at:\pwork\pwork\curryw\d226919\DI3232-Design.dgn	PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -			*	2012-001-I	COOK	27	17	
PLOT DATE = 3/2/2012	DATE -	CHECKED -	REVISED -			CONTRACT NO. 60T31					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET 12 OF 13 SHEETS	STA.	TO STA.				

*1) FAU 2612
2) FAP 330



ELEVATION AT SO. ABUT. LOOKING NORTH

BRIDGE DECK DRAINAGE DETAILS

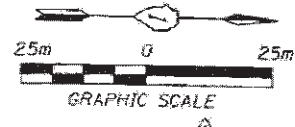
*1) FAU 2612
2) FAP 330

FILE NAME =	USER NAME = curryev	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE REPAIRS (SN 016-2504)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pridot\curryev\02296919\013232-Design.dgn	PL07 SCALE = 100.0000 * / in.	DRAWN -	REVISED -			#	2012-001-1	COOK	27	18
PL07 DATE = 3/2/2012	DATE -	CHECKED -	REVISED -			SCALE: SHEET 13 OF 13 SHEETS STA. TO STA.		CONTRACT NO. 60T31		
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

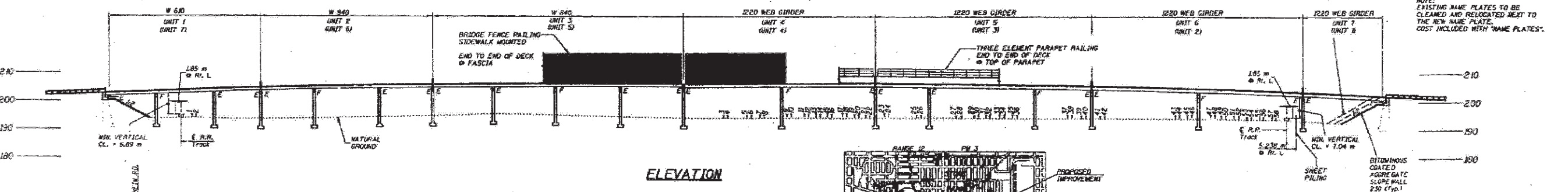
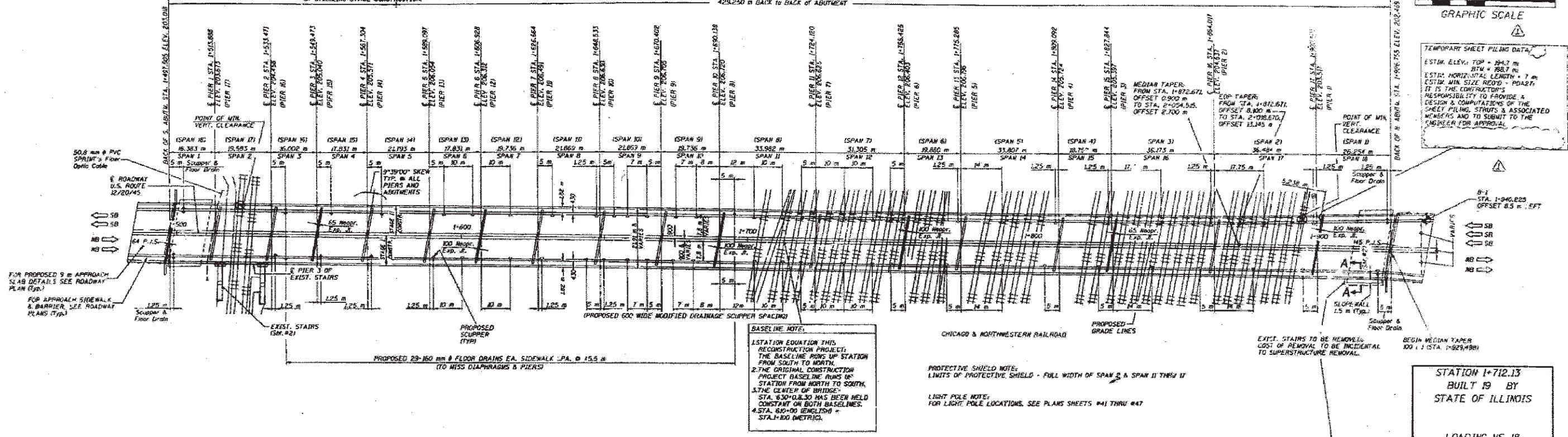
BENCHMARKS
ELEV. 194.628 CHISELED "C" ON WEST END OF SOUTH HEADHALL OF LAKE STREET BOX CULVERT FOR ADDISON CREEK

EXISTING STRUCTURE
SINGLE SPAN UNIT PLATE GIRDERS, BK. TO BK. ABUTMENTS 429.25m R.C. SLAB BRIDGE ON CLOSED ABUTMENTS AND SEVENTEEN PAIRED HAMMERHEAD PIERS. BUILT AS S.B.L. RTE 46, SECTION 464 VS 0 RS AT STA. 630+08.3 ENGLISH IN 1954. THE CONTRACTOR SHALL REMOVE THE EXISTING SUPERSTRUCTURE. HEIGHTEN ALL PIERS AND ABUTMENTS, AND REPLACE WITH COMPOSITE SUPERSTRUCTURE. THE ROAD SHALL BE KEPT OPEN TO TWO LANE TRAFFIC AT ALL TIMES BY UTILIZING STAGE CONSTRUCTION.

NO SALVAGE



TEMPORARY SHEET PILING DATA
ESTIM. ELEV. TOP = 204.2 m
BTM = 188.7 m
ESTIM. HORIZONTAL LENGTH = 7 m
ESTIM. MIN. SIZE HEAD = 1022mm
IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A DESIGN & COMPUTATIONS OF THE SHEET PILING STRUTS & ASSOCIATED MEMBERS AND TO SUBMIT TO THE ENGINEER FOR APPROVAL.



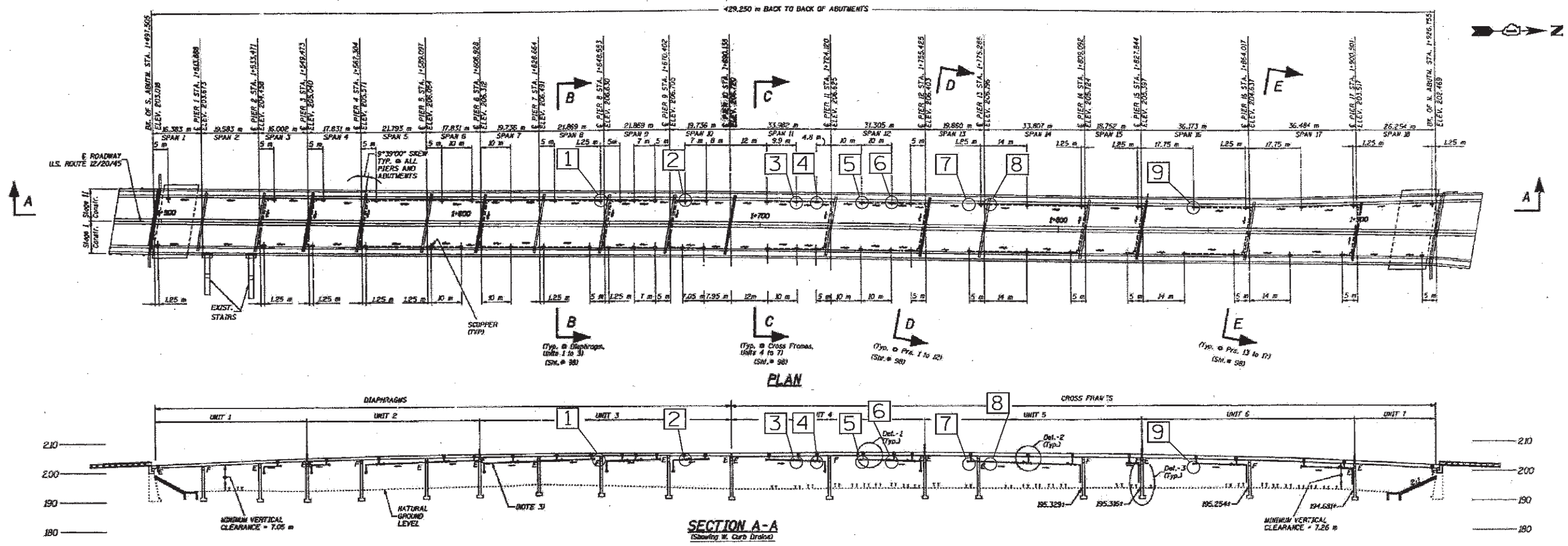
TOP OF SOUTHERN MOST RAIL ELEVATIONS

GENERAL PLAN & ELEVATION I
MANNHEIM ROAD (US 12/20/45) - F.A.P. 330 OVER PROVISO RR YARD COOK COUNTY SEC. 464VB - Y STATION 1+712.130 STRUCTURE NO. 016-0337

2/21/97

*1) FAU 2612
2) FAP 330

FILE NAME =	USER NAME = currygw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE REPAIRS (SN 016-0337)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2-Drawn	2-Drawn	DRAWN -	REVISED -			* 2012-001-I	COOK	27	19	
PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED -			CONTRACT NO. 60T31				
PLOT DATE = 3/2/2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
SCALE: SHEET 1 OF 8 SHEETS STA. TO STA.										



NOTES

- 1 DRAINAGE SYSTEM REPAIRS (REPL. 22LF)
-PIPE, FITTING AND PIPE HANGER TO BE INCLUDED IN COST-
- 2 DRAINAGE SYSTEM REPAIRS (REPL. 17LF)
-PIPE, FITTING AND PIPE HANGERS TO BE INCLUDED IN COST-
- 3 DRAINAGE SYSTEM REPAIRS (REPL. 5LF)
-CONNECTION TO SCUPPER OUTLET TO BE INCLUDED IN COST-
- 4 DRAINAGE SYSTEM REPAIRS (REPL 17LF)
-PIPE, FITTING AND PIPE HANGER TO BE INCLUDED IN COST-
- 5 DRAINAGE SYSTEM REPAIRS (REPL. 5LF)
-CONNECTION TO SCUPPER OUTLET TO BE INCLUDED IN COST-
- 6 DRAINAGE SYSTEM REPAIRS (REPL. 5LF)
-CONNECTION TO SCUPPER OUTLET TO BE INCLUDED IN COST-
- 7 DRAINAGE SYSTEM REPAIRS (REPL. 5LF)
-CONNECTION TO SCUPPER OUTLET TO BE INCLUDED IN COST-
- 8 DRAINAGE SYSTEM REPAIRS (REPL. 4LF)
-CONNECTION TO BE INCLUDED IN COST-
- 9 DRAINAGE SYSTEM REPAIRS (REPL. 5LF)
-CONNECTION TO SCUPPER OUTLET TO BE INCLUDED IN COST-

TOTAL BILL OF MATERIALS (SN 016-0337)

Item	Unit	Total
Cleaning Drainage System	L Sum	1
Drainage System Repairs	LF	124

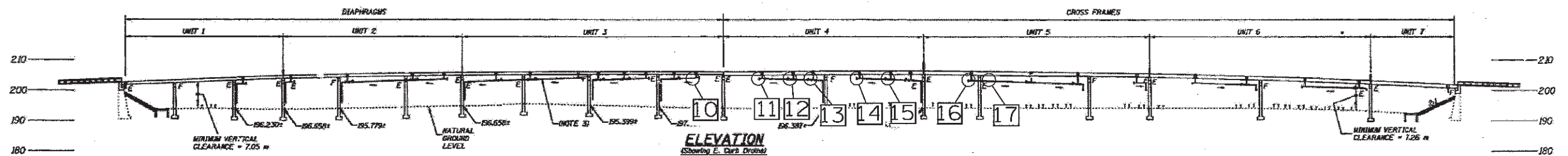
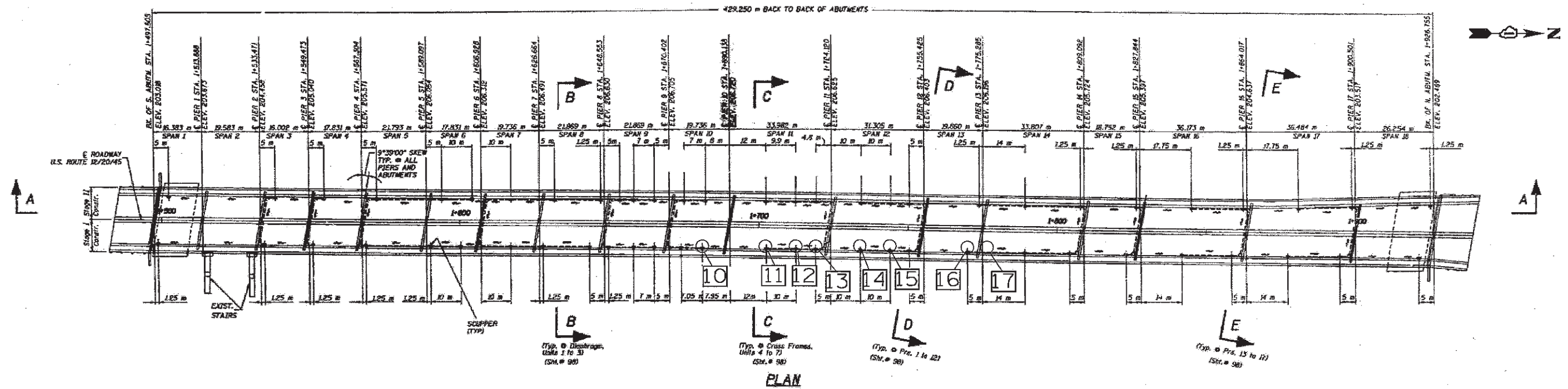
BILL OF MATERIALS (SN 016-337)

Item	Unit	Total
Drainage System Repairs	LF	85

*1) FAJ 2612
2) FAP 330

FILE NAME =	USER NAME = currgaw	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE REPAIRS (SN 016-0337)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
aplpr.wark\pndot\currgaw\0276919\01323	2-Design.dgn	DRAWN =	REVISED =			*	2012-001-I	COOK	27	20
PLOT SCALE = 100.0000' / 1" =	CHECKED =	REVISED =	REVISED =			CONTRACT NO. 60T31				
PLOT DATE = 3/2/2012	DATE =	REVISED =	REVISED =			ILLINOIS FED. AID PROJECT				

SCALE: SHEET 2 OF 8 SHEETS STA. TO STA.



NOTES

- 10 DRAINAGE SYSTEM REPAIRS (REPL. 5LF)
-CONNECTION TO SCUPPER OUTLET TO BE INCLUDED IN COST-
- 11 DRAINAGE SYSTEM REPAIRS (REPL. 5LF)
-CONNECTION TO SCUPPER OUTLET TO BE INCLUDED IN COST-
- 12 DRAINAGE SYSTEM REPAIRS (REPL. 5LF)
-CONNECTION TO SCUPPER OUTLET TO BE INCLUDED IN COST-
- 13 DRAINAGE SYSTEM REPAIRS (REPL. 5LF)
-CONNECTION TO SCUPPER OUTLET TO BE INCLUDED IN COST-
- 14 DRAINAGE SYSTEM REPAIRS (REPL. 5LF)
-CONNECTION TO SCUPPER OUTLET TO BE INCLUDED IN COST-
- 15 DRAINAGE SYSTEM REPAIRS (REPL. 5LF)
-CONNECTION TO SCUPPER OUTLET TO BE INCLUDED IN COST-
- 16 DRAINAGE SYSTEM REPAIRS (REPL. 5LF)
-CONNECTION TO SCUPPER OUTLET TO BE INCLUDED IN COST-
- 17 DRAINAGE SYSTEM REPAIRS (REPL. 4LF)
-CONNECTION TO SCUPPER OUTLET TO BE INCLUDED IN COST-

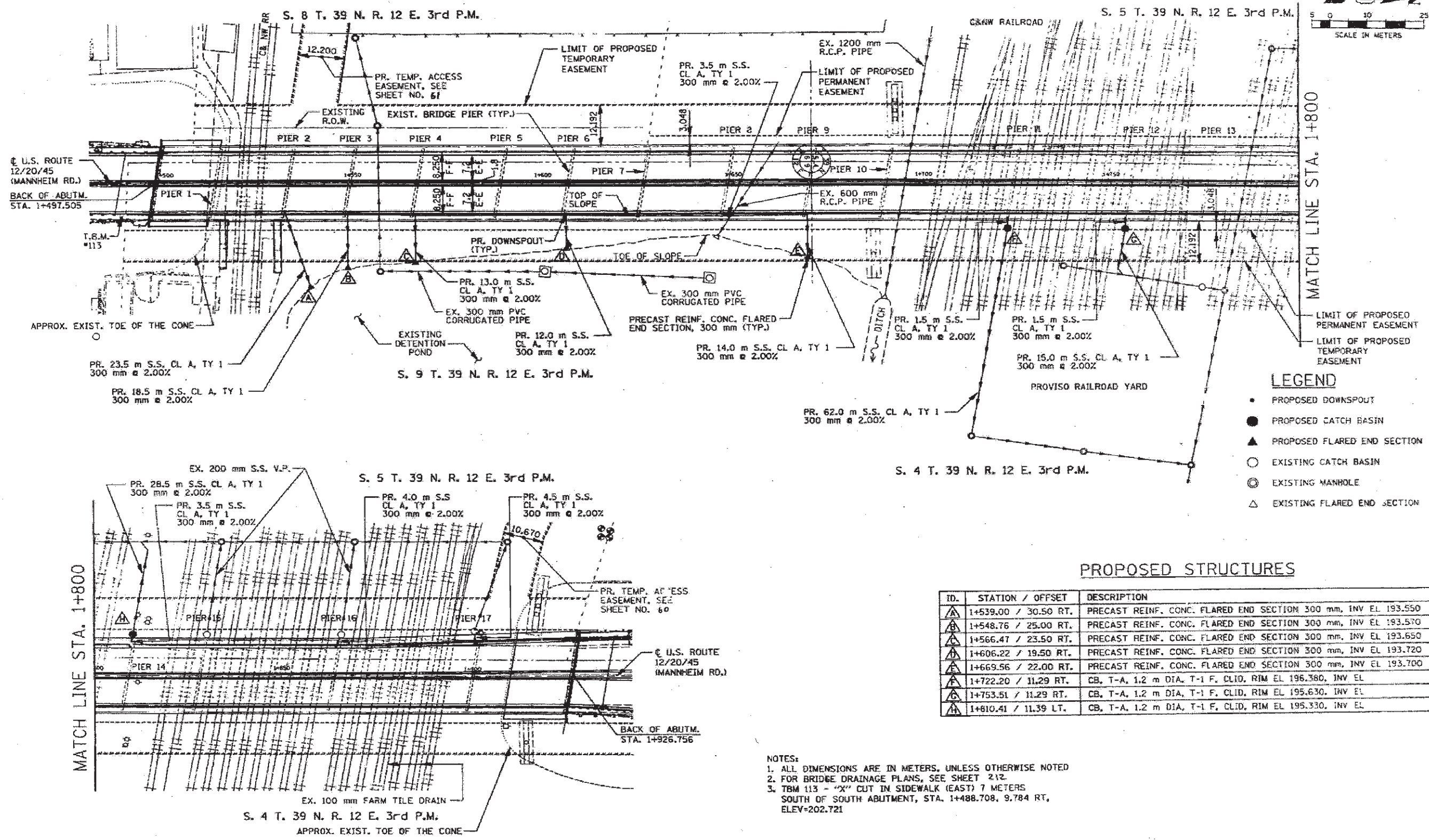
BILL OF MATERIALS (SN 016-337)

Item	Unit	Total
Drainage System Repairs	LF	39

*1) FAU 2612
2) FAP 330

FILE NAME =	USER NAME = curryw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE REPAIRS (SN 016-0337)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca\pwwork\pwwork\curryw\02296919\01322-Design.dgn	PLLOT SCALE = 100.0000 "/> <td>DRAWN -</td> <td>REVISED -</td> <td>*</td> <td>2012-001-I</td> <td>COOK</td> <td>27</td> <td>21</td>	DRAWN -	REVISED -			*	2012-001-I	COOK	27	21
PLLOT DATE = 3/2/2012	DATE -	CHECKED -	REVISED -			CONTRACT NO. 60T31				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
						SCALE:	SHEET 3	OF 8 SHEETS	STA.	TO STA.

FOR INFORMATION ONLY



- LEGEND**
- PROPOSED DOWNSPOUT
 - PROPOSED CATCH BASIN
 - ▲ PROPOSED FLARED END SECTION
 - EXISTING CATCH BASIN
 - ⊙ EXISTING MANHOLE
 - △ EXISTING FLARED END SECTION

PROPOSED STRUCTURES

ID.	STATION / OFFSET	DESCRIPTION
▲	1+539.00 / 30.50 RT.	PRECAST REINF. CONC. FLARED END SECTION 300 mm, INV EL 193.550
▲	1+548.76 / 25.00 RT.	PRECAST REINF. CONC. FLARED END SECTION 300 mm, INV EL 193.570
▲	1+566.47 / 23.50 RT.	PRECAST REINF. CONC. FLARED END SECTION 300 mm, INV EL 193.650
▲	1+606.22 / 19.50 RT.	PRECAST REINF. CONC. FLARED END SECTION 300 mm, INV EL 193.720
▲	1+669.56 / 22.00 RT.	PRECAST REINF. CONC. FLARED END SECTION 300 mm, INV EL 193.700
▲	1+722.20 / 11.29 RT.	CB, T-A, 1.2 m DIA, T-1 F, CLID, RIM EL 196.360, INV EL
▲	1+753.51 / 11.29 RT.	CB, T-A, 1.2 m DIA, T-1 F, CLID, RIM EL 195.630, INV EL
▲	1+810.41 / 11.39 LT.	CB, T-A, 1.2 m DIA, T-1 F, CLID, RIM EL 195.330, INV EL

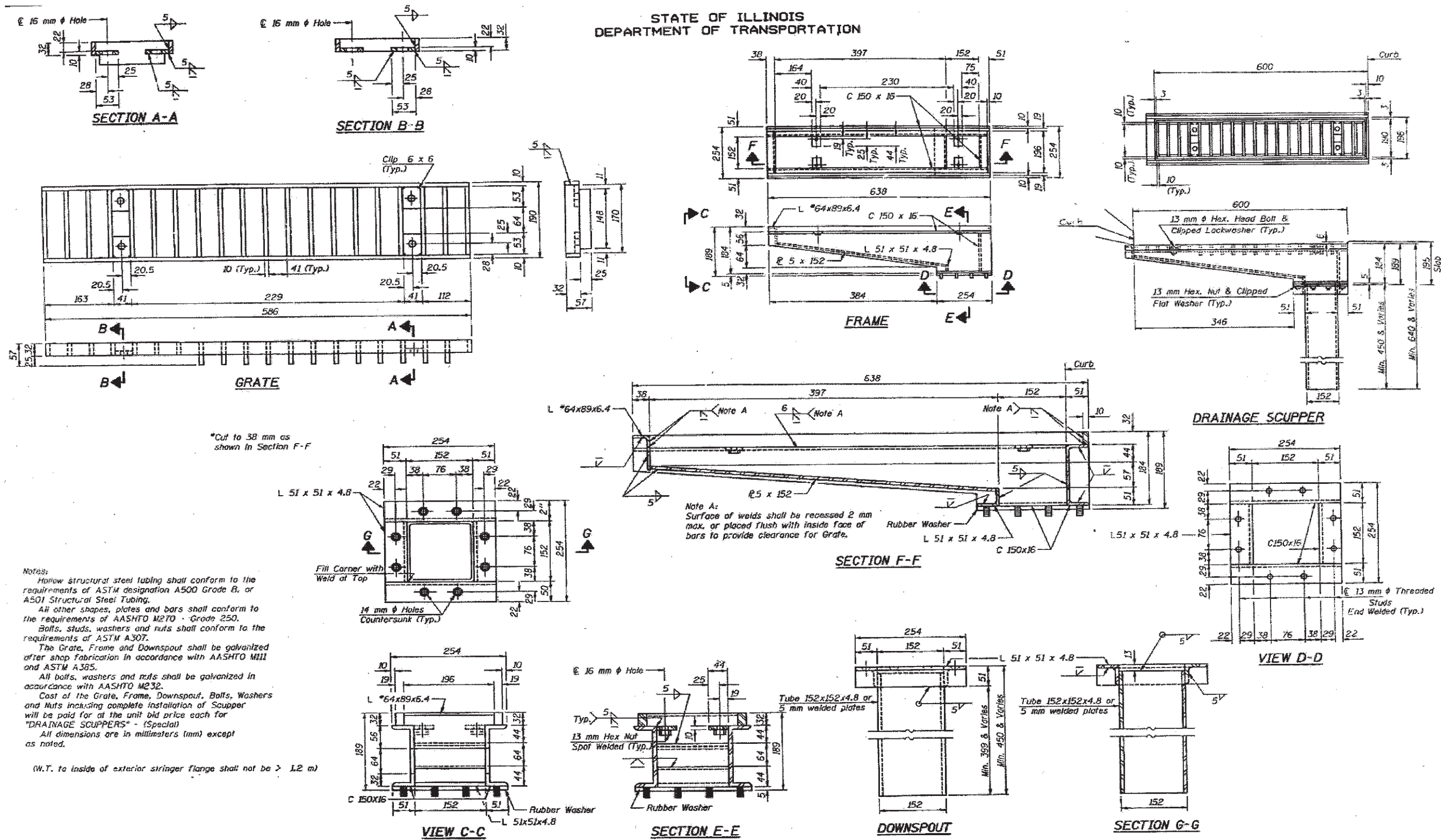
- NOTES:**
1. ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE NOTED
 2. FOR BRIDGE DRAINAGE PLANS, SEE SHEET 212
 3. TBM 113 - "X" CUT IN SIDEWALK (EAST) 7 METERS SOUTH OF SOUTH ABUTMENT, STA. 1+488.708, 9.784 RT, ELEV=202.721

BRIDGE DRAINAGE PLAN

*1) FAU 2612
2) FAP 330

FILE NAME =	USER NAME = curryw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE REPAIRS (SN 016-0337)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ar\pe_work\pdat\curryw\0296919\01322	2-Design\drn	DRAWN -	REVISED -			*	2012-001-1	COOK	27	22	
PLOT SCALE = 100.0000' = 1"		CHECKED -	REVISED -			CONTRACT NO. 60731					
PLOT DATE = 3/2/2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



BRIDGE DECK DRAINAGE DETAILS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REPAIRS
(SN 016-0337)

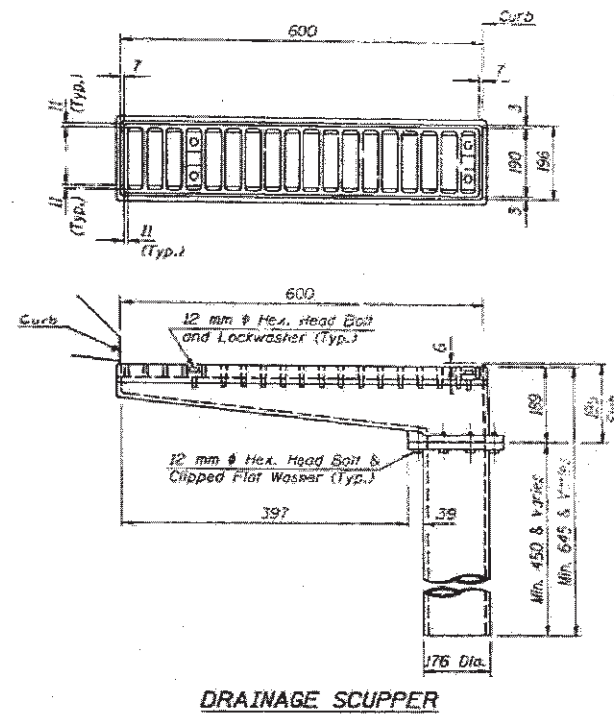
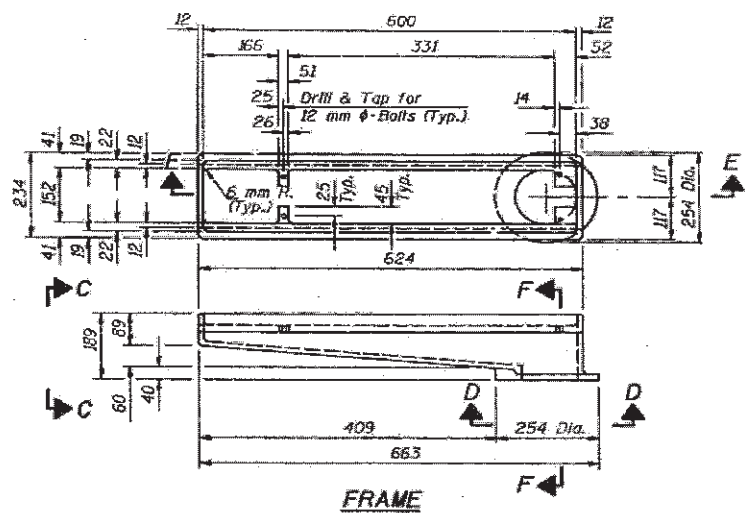
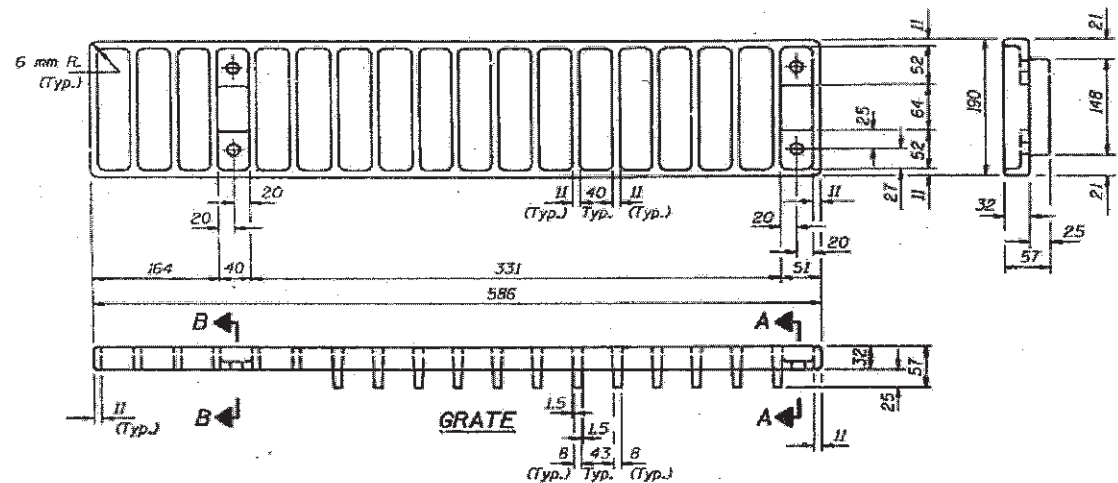
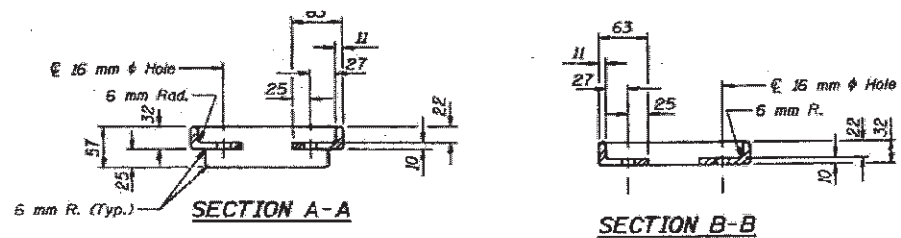
SCALE: SHEET 5 OF 8 SHEETS STA. TO STA.

*1) FAU 2612
2) FAP 330

FILE NAME =	USER NAME = curryw	DESIGNED -	REVISED -	STATE OF ILLINOIS	DRAINAGE REPAIRS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\p\dot\curryw\d0298919\013232	2-Design.dgn	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION	(SN 016-0337)	*	2012-001-1	COOK	27	23
PLOT SCALE = 100.0000 / in.		CHECKED -	REVISED -							
PLOT DATE = 3/2/2012		DATE -	REVISED -							
										CONTRACT NO. 60T31
										ILLINOIS FED. AID PROJECT

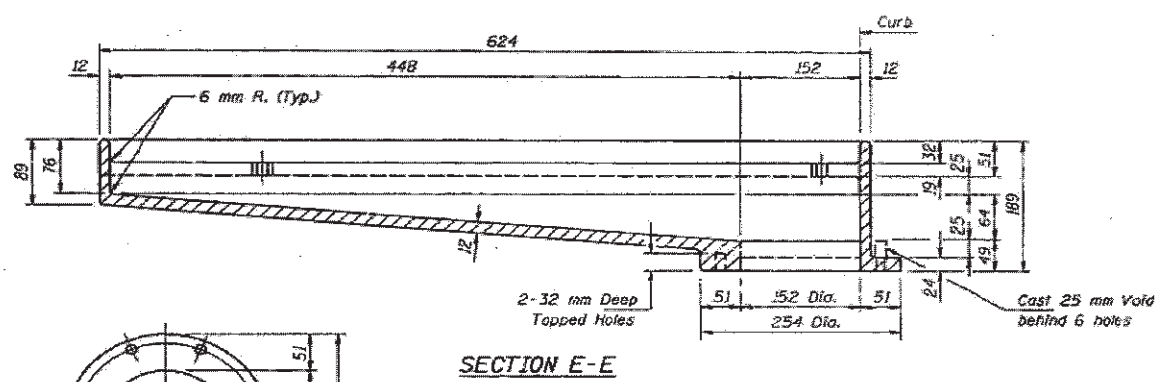
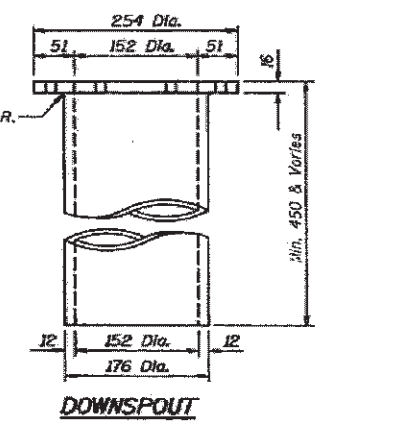
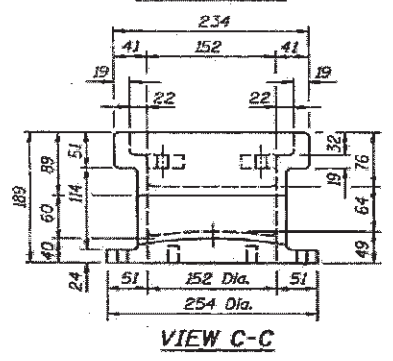
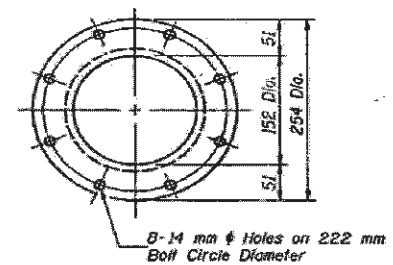
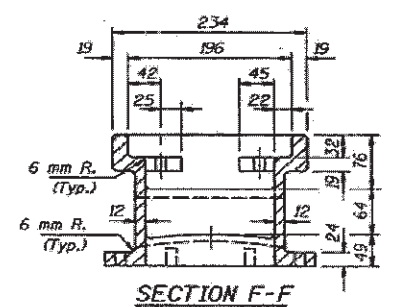
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Notes:
All cast iron parts shall be gray iron conforming to the requirements of AASHTO M105, Class 30.
Bolts and washers shall conform to the requirements of ASTM A307.
All bolts and washers shall be galvanized in accordance with AASHTO M232.
As an alternate bolts and washers may be stainless steel conforming to the requirements of ASTM A193M, Type 304.
Cost of the Grate, Frame, Downspout, bolts and washers including complete installation of Scupper will be paid for at the unit bid price each for "DRAINAGE SCUPPERS" - (Special)
The Contractor may use at his option steel drainage scuppers or cast iron drainage scuppers.
All dimensions are in millimeters (mm) except as noted.

(W.T. to inside of exterior stringer flange shall not be > 1.2 m)



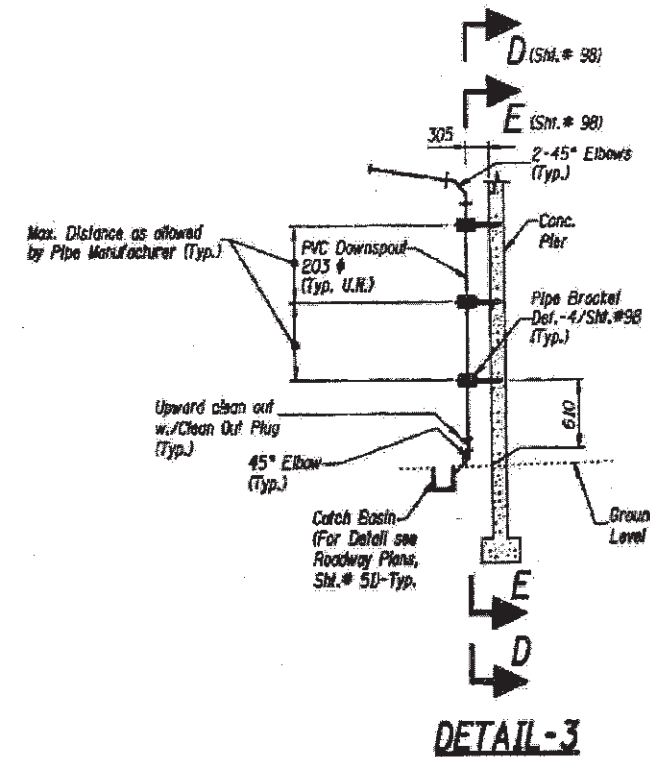
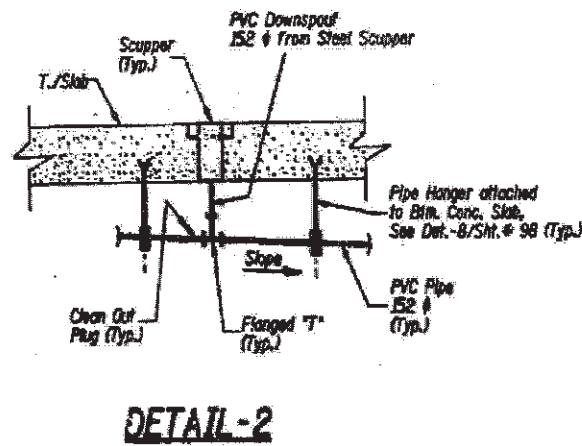
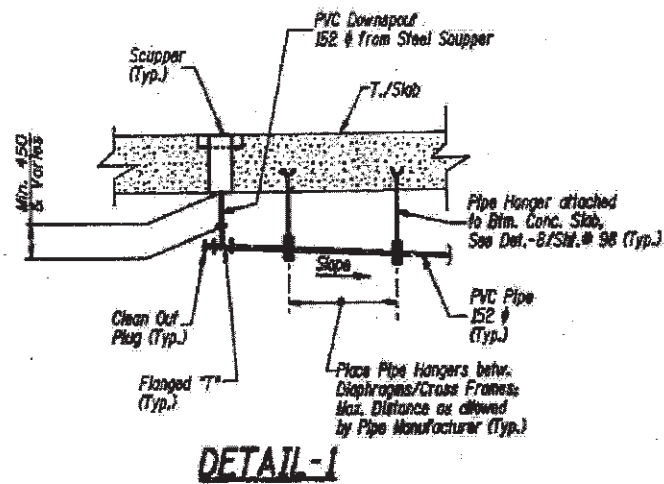
ALTERNATE - CAST IRON
DRAINAGE SCUPPER
(MODIFIED)
MANNHEIM ROAD (US 12/20/45)
F.A.P. 330 OVER PROVISO RR YARD
COOK COUNTY SEC. 464VB - Y
STATION 1+712.130
STRUCTURE NO. 016 0337

BRIDGE DECK DRAINAGE DETAILS

*1) FAU 2612
2) FAP 330

FILE NAME =	USER NAME = curryw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE REPAIRS (SN 016-0337)	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
or\p\work\p\p\p\curryw\d2236919\01322-Design.dgn	2-Design.dgn	DRAWN -	REVISED -			*	2012-001-I	COOK	27	24	
PLOT SCALE = 100.0000 / in.		CHECKED -	REVISED -			CONTRACT NO. 60T31					
PLOT DATE = 3/2/2012		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET 6	OF 8 SHEETS	STA.	TO STA.		

FOR INFORMATION ONLY



NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED.
 2. FOR TYPICAL SCUPPER DETAILS, SEE SHTS. #57 & #58.
 3. LONGITUDINAL DRAIN PIPES SHOWN ARE ABOVE THE BOTTOM FLANGES OF BEAMS & GIRDERS. SLOPES ARE APPROXIMATELY PARALLEL TO BEAM/GIRDER.

BRIDGE DRAINAGE PLAN

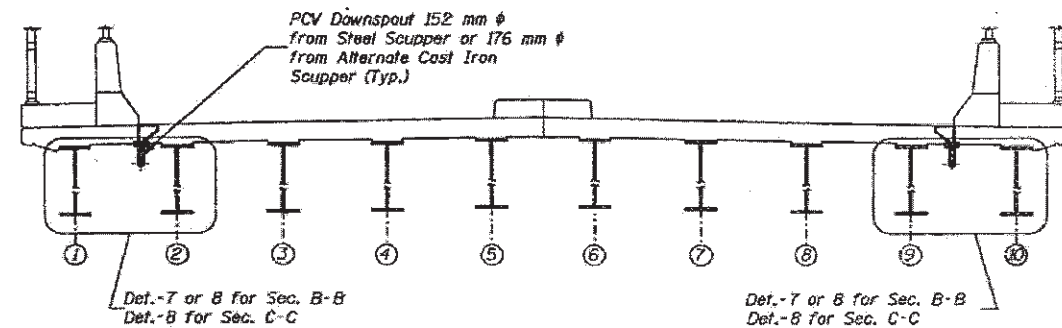
MANNHEIM ROAD (US 12/20/45)
 F.A.P. 330 OVER PROVISO RR YARD
 COOK COUNTY SEC. 464VB - Y
 STATION 1+712.130
 STRUCTURE NO. 016-0337

BRIDGE DECK DRAINAGE DETAILS

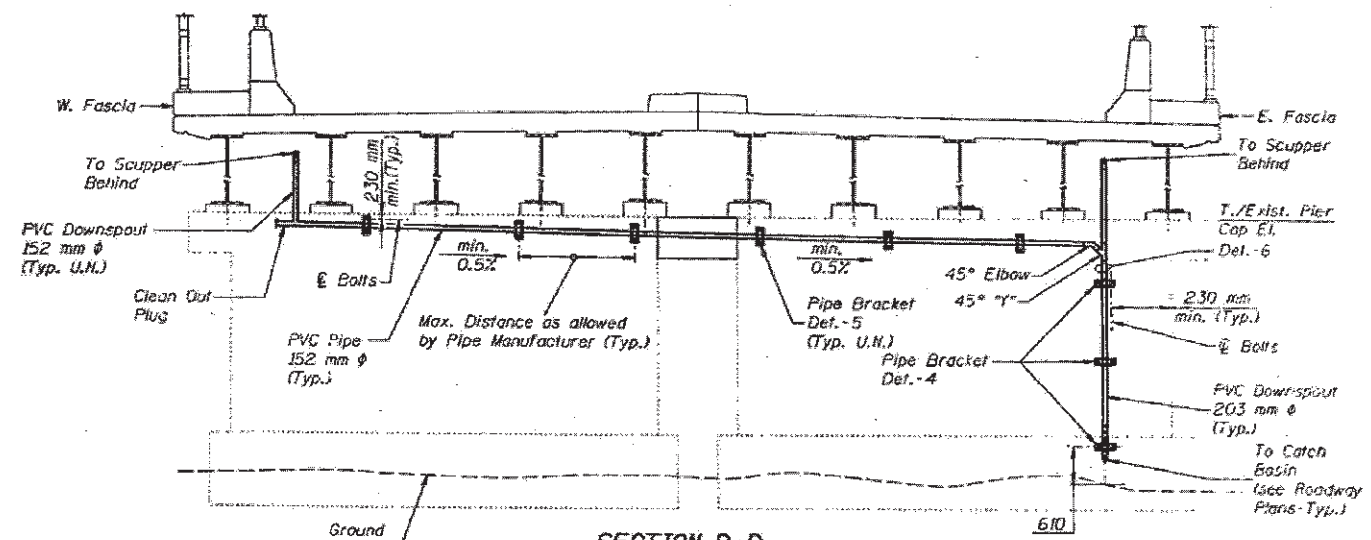
*1) FAU 2612
 2) FAP 330

FILE NAME *	USER NAME = currygw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE REPAIRS (SN 016-0337)		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
as\pvc_work\pvc\dot\currygw\108296919\01322	2-Design.dgn	DRAWN -	REVISED -		SCALE:	SHEET 7	OF 8 SHEETS	STA.	TO STA.	2012-001-1	COOK	27	25
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -										
	PLOT DATE = 3/2/2012	DATE -	REVISED -										
										CONTRACT NO. 60T31		ILLINOIS FED. AID PROJECT	

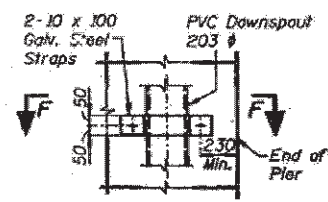
FOR INFORMATION ONLY



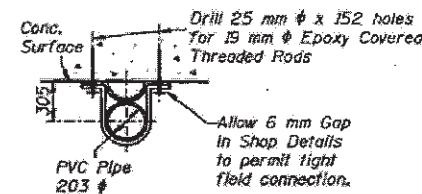
SECTION B-B • Diaphragms
(Units 1 to 3)
SECTION C-C • Cross Frames
(Units 4 to 7)



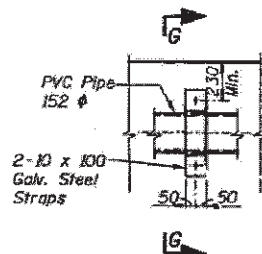
SECTION D-D
• Piers 1 to 12



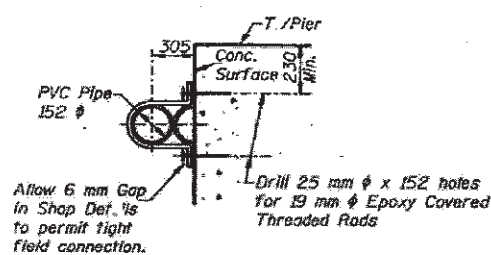
DETAIL-4



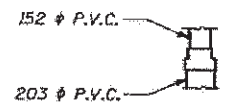
SECTION F-F



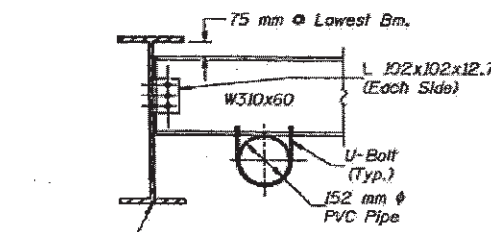
DETAIL-5



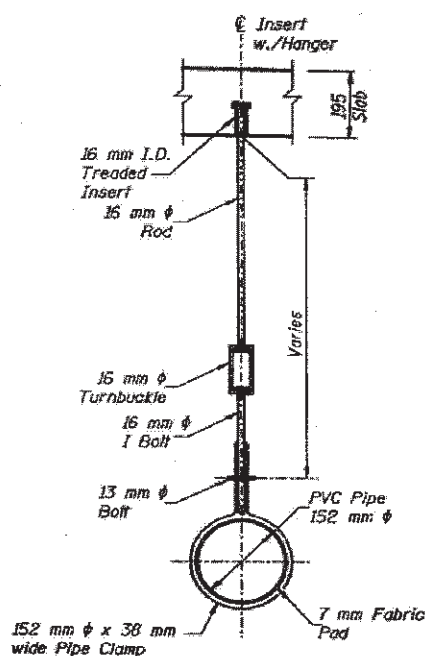
SECTION G-G



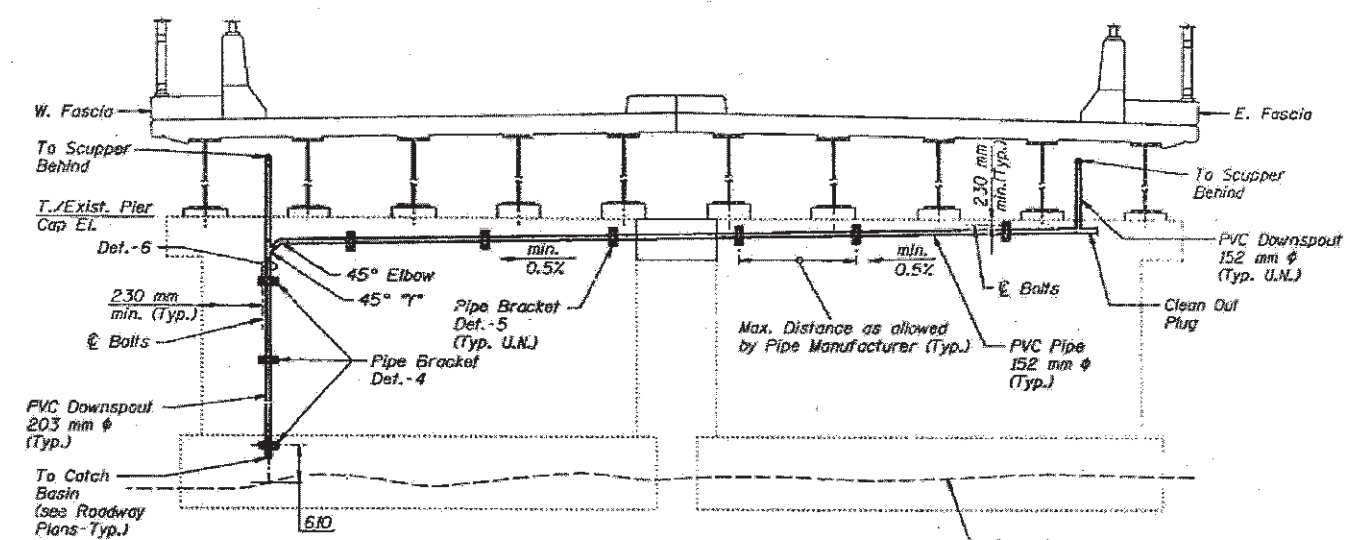
DETAIL-6
(TRANSITION CONNECTION)



DETAIL-7
(INTERIOR DIAPHRAGM D-4)



DETAIL-8



SECTION E-E
• Piers 13 to 17

Note:
All Dimensions are in millimeters (mm), except as noted.

TYPICAL DRAINAGE SECTIONS & DETAILS

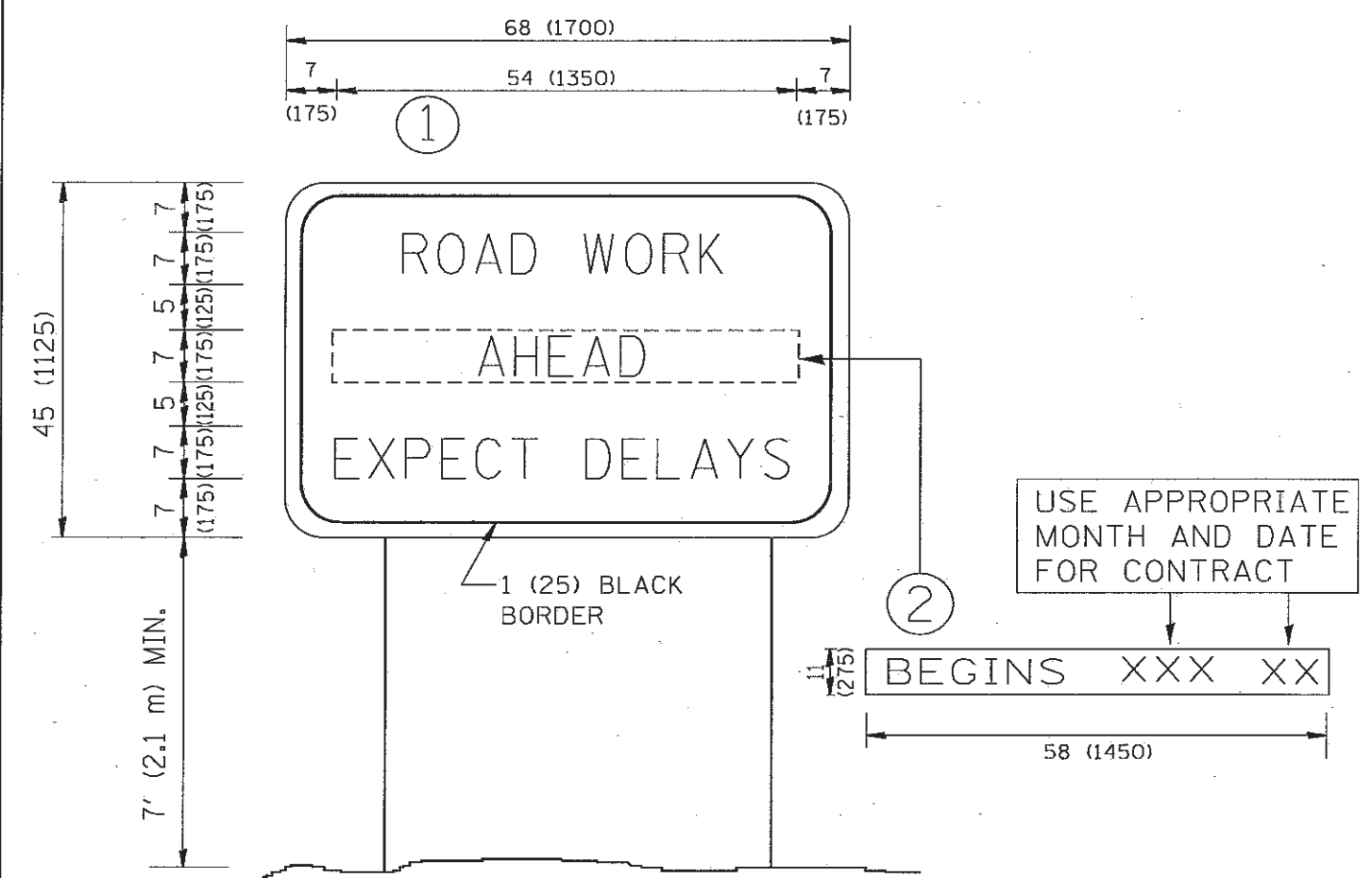
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PLOT SCALE = 100:0000 1/16"		CHECKED -	REVISED -
PLOT DATE = 3/2/2012		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REPAIRS
(SN 016-0337)

SCALE: SHEET 8 OF 8 SHEETS STA. TO STA.

*1) FAU 2612 2) FAP 330	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	2012-001-1	COOK	27	26
				CONTRACT NO. 60T31	
				ILLINOIS FED. AID PROJECT	



NOTES:

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

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

FILE NAME =	USER NAME = curryjw	DESIGNED -	REVISED - R. MIRS 09-15-97
ca:\pwr\work\pwr\d04\curryjw\d0238919\Dist\5	d.dgn	DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 3/2/2012	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

* 1) FAU 2612 2) FAP 330		F.A. RTE. #	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		#	2012-001-1	COOK	27	27
TC-22				CONTRACT NO. 60T31		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						