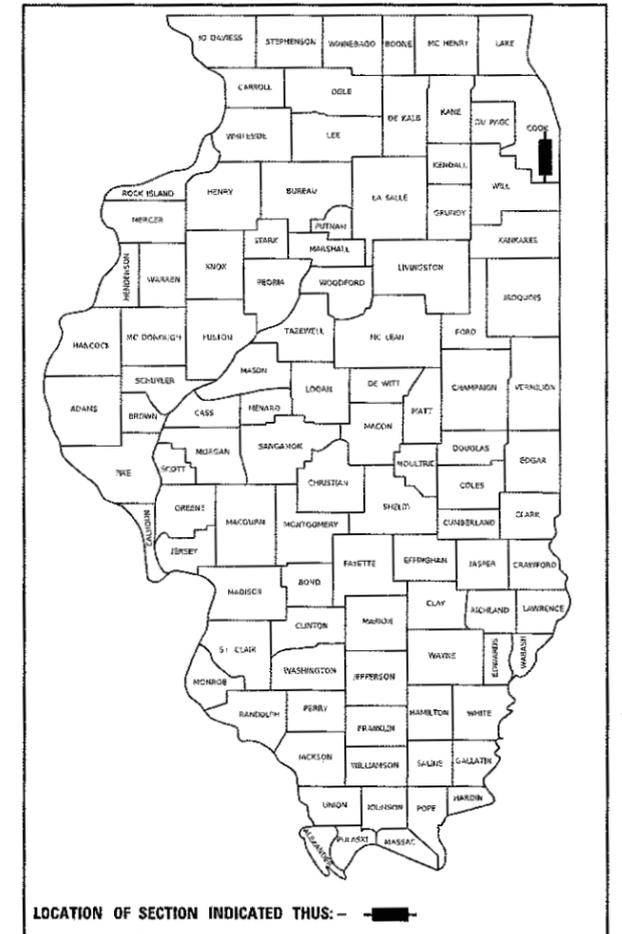


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	1
		ILLINOIS	CONTRACT NO. 62G16	

133 + 4 = 137 TOTAL SHEETS

D-91-285-18



LOCATION OF SECTION INDICATED THUS: - ■ -

FOR INDEX OF SHEETS, SEE SHEET NO. 002
IMPROVEMENT LOCATED IN THE CITY OF CHICAGO

HBM ENGINEERING GROUP, LLC
ROBERT J. BORO, P.E.
#062-043749



DATE: 03/16/2018

SIGNATURE AND SEAL
APPLY TO DRAWINGS:
1-4

EXPIRATION DATE: 11-30-2019

HBM ENGINEERING GROUP, LLC
MOUSSA A. ISSA, PH.D., P.E., S.E.
#081-005738



DATE: 03/16/2018

SIGNATURE AND SEAL
APPLY TO DRAWINGS:
23-29, 45-47,
54-108, AND 123-129

EXPIRATION DATE: 11-30-2018

AES SERVICES, INC.
MOHAMMED SALEEM, P.E., S.E.
#081-006145



DATE: 03/16/2018

SIGNATURE AND SEAL
APPLY TO DRAWINGS:
32-43

EXPIRATION DATE: 11-30-2018

AES SERVICES, INC.
JAMEEL AHMED, P.E.
#062-061172



DATE: 03/16/2018

SIGNATURE AND SEAL
APPLY TO DRAWINGS:
5-22

EXPIRATION DATE: 11-30-2019

ACCURATE GROUP, INC.
SNEHA PRIYANG SHAH, S.E.
#081-007062



DATE: 03/16/2018

SIGNATURE AND SEAL
APPLY TO DRAWINGS:
49-54 AND 108-122

EXPIRATION DATE: 11-30-2018

V3 COMPANIES
WILLIAM J. VEGRZYN, P.E., S.E.
#081-004983



DATE: 03/16/2018

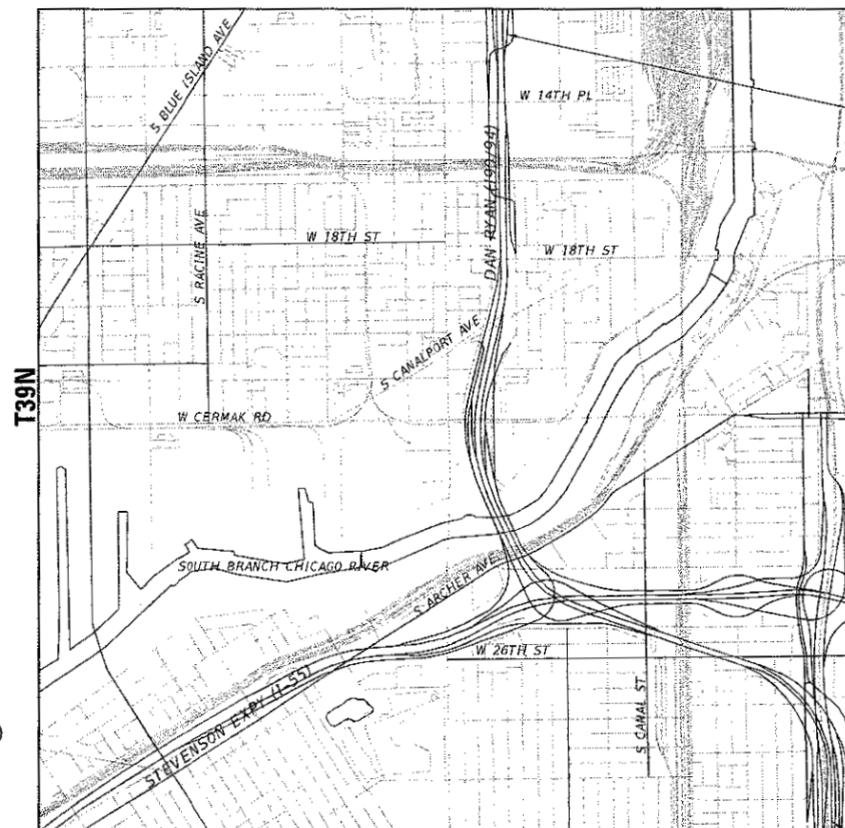
SIGNATURE AND SEAL
APPLY TO DRAWINGS:
30-31, 44-45,
AND 105-106

EXPIRATION DATE: 11-30-2018

PROPOSED HIGHWAY PLANS

FAI ROUTE 94:I-90/94 (DAN RYAN EXPRESSWAY)
13TH ST TO 26TH ST
SECTION 2018-008-BJR
PROJECT NHPP-G4DQ(565)
BRIDGE REPAIR / BRIDGE JOINT REPAIR
COOK COUNTY

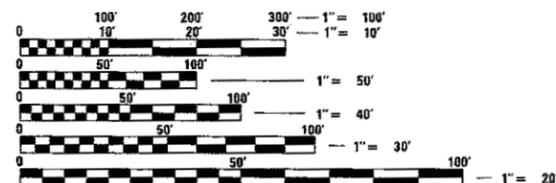
C-91-183-18
R14E



PROJECT ENDS

- DAN RYAN ELEVATED CONSISTING OF THE FOLLOWING 19 STRUCTURES:
SN 016-1118, SN 016-1117
SN 016-1067, SN 016-1116
SN 016-1115, SN 016-1062
SN 016-1046, SN 016-1059
SN 016-1140, SN 016-1047
SN 016-1070, SN 016-1050
SN 016-1066, SN 016-1114
SN 016-1113, SN 016-1112
SN 016-1111, SN 016-1110
SN 016-0137

PROJECT BEGINS



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

TRAFFIC DATA
I-90/94 (Dan Ryan Mainline)
ADT (2016) = 189,200
Posted Speed = 45 mph

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

PROJECT ENGINEER J. ALAIN MIDY (847) 221-3056
PROJECT MANAGER FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62G16

GROSS LENGTH = 10,487 FT. = 1.986 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 15, 2018

Anthony J. Quigley / ABS REGIONAL ENGINEER

May 11, 2018

ENGINEER OF DESIGN AND ENVIRONMENT

May 11, 2018

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES:

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "C.U.A.N." CHICAGO UTILITY ALERT NETWORK AT (312)744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
2. THE CONTRACTOR SHALL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
5. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT (847)705-4155 FOR ARTERIALS AND (847)705-4151 FOR EXPRESSWAYS, A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
6. CONTRACTOR SHALL COMPLY WITH ANY CITY OF CHICAGO NOISE ORDINANCE.
7. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BRIDGE INSPECTORS.
8. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
9. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
10. THE CONTRACTOR SHALL PROVIDE MANLIFTS TO THE ENGINEER (OR ENGINEER'S DESIGNATED REPRESENTATIVE), AS REQUIRED IN NUMBER AND TYPE, FOR THE ENGINEER'S USE IN INSPECTING THE VARIOUS ASPECTS OF THE CONTRACTOR'S WORK.
11. COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF WORK.
12. THE CONTRACTOR SHALL SCHEDULE ANY PARTIAL OR COMPLETE CLOSURES OF PARKING AND STORAGE AREAS UNDER THE ELEVATED DAN RYAN BRIDGE WHEN BELOW DECK OPERATIONS ARE BEING CONDUCTED. IT'S THE CONTRACTOR'S RESPONSIBILITY TO SCHEDULE ANY SUCH CLOSURES WITH THE AFFECTED PARTIES. ANY CONTRACTOR INFLICTED DAMAGES TO VEHICLES AND OTHER PROPERTIES UNDER THE ELEVATED DAN RYAN BRIDGE WILL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

LIST OF STATE STANDARDS

STD. NO.	DESCRIPTION
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-11	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIST RAMP, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
701446-09	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE MULTILANE, 1W OR 2W WITH NON-TRAVERSABLE MEDIAN
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-07	TRAFFIC CONTROL DEVICES

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF DRAWINGS, LIST OF STANDARDS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	SCHEDULE OF QUANTITIES
* 5 TO 22	MAINTENANCE OF TRAFFIC KEY PLAN
23	
24 TO 29	BRIDGE REPAIR SN 016-0137
30 TO 31	BRIDGE REPAIR SN 016-1046
32 TO 35	BRIDGE REPAIR SN 016-1047
36 TO 39	BRIDGE REPAIR SN 016-1050
40 TO 43	BRIDGE REPAIR SN 016-1059
44 TO 45	BRIDGE REPAIR SN 016-1062
46 TO 48	BRIDGE REPAIR SN 016-1066
49 TO 54	BRIDGE REPAIR SN 016-1067
55 TO 57	BRIDGE REPAIR SN 016-1070
58 TO 64	BRIDGE REPAIR SN 016-1110
65 TO 73	BRIDGE REPAIR SN 016-1111
74 TO 85	BRIDGE REPAIR SN 016-1112
86 TO 92	BRIDGE REPAIR SN 016-1113
93 TO 96	BRIDGE REPAIR SN 016-1114
97 TO 107	BRIDGE REPAIR SN 016-1115
108 TO 109	BRIDGE REPAIR SN 016-1116
110 TO 119	BRIDGE REPAIR SN 016-1117
120 TO 124	BRIDGE REPAIR SN 016-1118
125 TO 131	BRIDGE REPAIR SN 016-1140
132	ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08)
133	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES (TC-17)
133A	Single Lane Weave and Multi-lane Weave (TC-09)
133B TO 133C	Multi-Lane Freeway Pavement Marking Detail (TC-12)

* Includes sheet 6A

FILE PATH = P:\1710-246 IDOT District 1\10 2 Det. Right Bridge Repairs\Sheet Files\502-General Notes.dgn



502-General Notes.dgn	DESIGNED - AI	REVISED -
USER NAME = ahmed.issa	DRAWN - EBK	REVISED -
PLOT SCALE =	CHECKED - RTB	REVISED -
PLOT DATE = 3/19/2018	DATE - 03/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

INDEX OF DRAWINGS, LIST OF STANDARDS AND GENERAL NOTES & BILL OF MATERIAL

SCALE:	SHEET GEN-1 OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	2
				CONTRACT NO. 62016
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT		TOTAL QUANTITY	90% FED 10% STATE		
50102400	CONCRETE REMOVAL	CU YD	1.2	1.2			
50300255	CONCRETE SUPERSTRUCTURE	CU YD	1.2	1.2			
50300300	PROTECTIVE COAT	SQ YD	21	21			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	50	50			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6			
67100100	MOBILIZATION	L SUM	1	1			
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1			
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1			
X0322215	CLEANING BRIDGE SCUPPERS AND DOWNSPOUTS	EACH	513	513			
X0900022	BRIDGE DRAINAGE SYSTEM REPAIR	FOOT	2100	2100			
X2200018	ORNAMENTAL FENCE	FOOT	2700	2700			
X7010410	SPEED DISPLAY TRAILER	CAL MO	1	1			
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1			
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	8	8			

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE			
CODE NO.	ITEM	UNIT		TOTAL QUANTITY	90% FED 10% STATE		
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	10	10			
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1			
Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	1	1			
X0900046	PREFORMED JOINT SEAL, 1"	FOOT	384	384			
X0900058	PREFORMED JOINT SEAL, 2"	FOOT	303	303			
X2000030	PREFORMED JOINT SEAL, 2.5"	FOOT	76	76			
X0900047	PREFORMED JOINT SEAL, 3"	FOOT	477.5	477.5			
X1200201	STRIP SEAL GLAND REPLACEMENT	FOOT	799	799			

FILE PATH: P:\1718-246 IDOT District 1\WD 2 Den Ryan Bridge Repairs\Sheet Files\S00-S00.dgn



S00-S00.dgn
 USER NAME = ahmed.1999
 PLOT SCALE =
 PLOT DATE = 3/19/2018

DESIGNED - AI
 DRAWN - AI
 CHECKED - RTB
 DATE - 03/19/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

SUMMARY OF QUANTITIES
 I-90/94 13TH ST TO 26TH ST

SCALE: SHEET S00-1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	3
CONTRACT NO. 62G16				

RDW 5-11-18

STRUCTURE NUMBER

ITEM	UNIT	TOTAL QUANTITY	STRUCTURE NUMBER																		
			SN 016-0137	SN 016-1046	SN 016-1047	SN 016-1050	SN 016-1059	SN 016-1062	SN 016-1066	SN 016-1067	SN 016-1070	SN 016-1110	SN 016-1111	SN 016-1112	SN 016-1113	SN 016-1114	SN 016-1115	SN 016-1116	SN 016-1117	SN 016-1118	SN 016-1140
CONCRETE REMOVAL	CU YD	1.2																			1.2
CONCRETE SUPERSTRUCTURE	CU YD	1.2																			1.2
PROTECTIVE COAT	SQ YD	21																			21
REINFORCEMENT BARS, EPOXY COATED	POUND	50																			50
CLEANING BRIDGE SCUPPERS AND DOWNSPOUTS	EACH	513	32	10	3	4	6	2	12	14	4	38	45	82	45	20	76	32	65	21	2
BRIDGE DRAINAGE SYSTEM REPAIR	FOOT	2100	51	3	10	10	2		25	6	26	349	346	88	264	195	214	156	319	19	17
ORNAMENTAL FENCE	FOOT	2700												2700							
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	8																		8	
DECK SLAB REPAIR (PARTIAL)	SQ YD	10	1											9							
TEMPORARY SHORING AND CRIBBING	EACH	1																		1	
PREFORMED JOINT SEAL, 1"	FOOT	384										51	142	191							
PREFORMED JOINT SEAL, 2"	FOOT	303	192				29.5				51.5										30
PREFORMED JOINT SEAL, 2.5"	FOOT	76															76				
PREFORMED JOINT SEAL, 3"	FOOT	477.5								65.5		51		28	78		116		139		
STRIP SEAL GLAND REPLACEMENT	FOOT	799		27				33.5					49	257	193		59		69.5	45.5	65

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S04-SchedQuant.dgn
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 PLOT SCALE =
 PLOT DATE = 5/2/2018

DESIGNED - AI
 DRAWN - AI
 CHECKED - RTB
 DATE - 03/19/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

SCHEDULE OF QUANTITIES
I-90/94 13TH ST TO 26TH ST

SCALE: SHEET SCO-1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G16	

TRAFFIC CONTROL GENERAL NOTES

1. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. TYPE III BARRICADES AND ROAD CLOSURE SIGNS SHALL BE POSITIONED AS SHOWN, ACCORDING TO HIGHWAY STANDARD 701601 AND AS DIRECTED BY THE ENGINEER.
3. TYPE II BARRICADES AND ROAD CLOSURE SIGNS SHALL BE POSITIONED AS SHOWN, ACCORDING TO HIGHWAY STANDARD 701446, 701401 AND AS DIRECTED BY THE ENGINEER.
4. TYPE A LOW INTENSITY FLASHING WARNING LIGHTS SHALL BE USED ON EACH SIGN IN ADVANCE OF THE WORK DURING HOURS OF DARKNESS.
5. ALL WARNING SIGNS SHALL BE A MINIMUM OF 48" X 48" AND HAVE A BLACK LEGEND AND BORDER ON A FLOURESCENT ORANGE REFLECTORIZED BACKGROUND.
6. ALL TYPE III BARRICADES UTILIZED FOR ROAD CLOSURES SHALL HAVE TWO LOW INTENSITY FLASHING LIGHTS MOUNTED ON TOP OF EACH BARRICADE.
7. MAINTAIN EXISTING TRAFFIC SIGNS.
8. COVER ALL EXISTING TRAFFIC SPEED LIMIT SIGNS WHERE WORK ZONE SPEED LIMIT CHANGES ARE IMPLEMENTED.
9. WHERE ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
10. EXACT LOCATION OF ALL WARNING SIGNS AND BARRICADES SHALL BE STAKED IN THE FIELD FOR APPROVAL BY THE ENGINEER PRIOR TO INSTALLATION.
11. PRIOR TO START OF CONSTRUCTION, ALL REQUIRED TRAFFIC CONTROL DEVICES SHALL BE IN PLACE.
12. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 72 HOURS PRIOR TO ANY ANTICIPATED CLOSURES.
13. A MINIMUM 11' LANE WIDTH SHALL BE MAINTAINED ON ALL INTERSTATE LANES OPEN TO TRAFFIC DURING CONSTRUCTION.
14. OFFSETS BETWEEN THE EDGE OF TRAVEL LANE AND THE FACE OF TEMPORARY CONCRETE BARRIER ARE ASSUMED TO BE 2 FT UNLESS DESIGNATED OTHERWISE.
15. THE CONTRACTOR SHALL BE ADVISED THAT THE WORK DURING PEAK HOURS SPECIFICATION TAKE PRECEDENCE OVER THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL.
16. VERIFY LOCATION OF ALL BUILDING ACCESS, COORDINATE WITH BUILDING OWNERS AND LOCAL AUTHORITIES AND PROVIDE FULL ACCESS TO BUSINESSES OR PROPERTIES DURING THEIR NORMAL WORKING HOURS IN ACCORDANCE WITH ADA AND APPLICABLE CODE REQUIREMENTS.
17. THE CONTRACTOR SHALL MAINTAIN TRAFFIC ON ALL STREETS EXCEPT WHERE NOTED ON THE PLANS AND PROHIBIT PARKING WITHIN FIFTY (50) FEET OF THE CONSTRUCTION AREA AT ALL TIMES. NOTIFY CDOT AND OEMC AT LEAST 72 HOURS BEFORE COMMENCING CONSTRUCTION.
18. PROVIDE CONTINUOUS TEMPORARY ACCESS TO ALL SIDE STREETS, ALLEYS, DRIVEWAYS, AND PARKING LOTS UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS FOR TEMPORARY CLOSURE. LOTS WITH MORE THAN ONE DRIVEWAY MUST BE STAGED TO KEEP AT LEAST ONE DRIVEWAY OPEN AT ALL TIMES.
19. MAINTAIN ACCESS TO FIRE HYDRANTS, BUILDING STANDPIPES AND OTHER EMERGENCY FACILITIES WITHIN THE CONSTRUCTION ZONE.
20. THE CONTRACTOR SHALL COORDINATE WORK WITH PRIVATE UTILITY COMPANIES AND THEIR CONTRACTORS FOR ADJUSTMENTS, SUPPORTS, AND RELOCATION. UTILITY WORK WILL GENERALLY BE CONDUCTED PRIOR TO ROADWAY WORK, BUT CERTAIN ITEMS MAY NEED TO PROCEED IN CONCERT WITH CONSTRUCTION OPERATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT AFFECTED UTILITIES AND COORDINATE WORK WITHIN THE CONSTRUCTION SCHEDULE. THE EFFORT OF WHICH WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

21. THE CONTRACTOR SHALL CONTACT THE DISTRICT ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847)-705-4470 AND THE EXPRESSWAYS TRAFFIC CONTROL SUPERVISOR AT (847)-705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
22. SIGN W21-1(0)-48 SHALL BE TAKEN DOWN WHEN THE WORKERS ARE NOT PRESENT.
23. THE CONTRACTOR SHALL ONLY SET UP AND STORE EQUIPMENT DURING CONSTRUCTION AT THE SUGGESTED STAGING WORK ZONE AREAS SHOWN IN THE PLANS OR AS APPROVED BY THE ENGINEER. THE SUGGESTED STAGING AREAS SHOWN IN THE PLANS ARE SUBJECT TO FIELD MODIFICATION AS DETERMINED BY THE ENGINEER. THE SUGGESTED STAGING AREAS MAY BE SHARED WITH OTHER ADJACENT CONTRACTS WHICH MAY BE UNDER CONSTRUCTION DURING THE DURATION OF THIS PROJECT. CONTRACTOR COOPERATION IS REQUIRED.
24. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, (EXPRESSWAYS). ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST TRAFFIC CONTROL AND PROTECTING, (EXPRESSWAYS).
25. COOPERATION BETWEEN CONTRACTORS WILL BE REQUIRED. THE CONTRACTOR SHALL COORDINATE TRAFFIC CONTROL WITH OTHER ADJACENT CONTRACTS WHICH MAY BE UNDER CONSTRUCTION DURING THE DURATION OF THIS PROJECT. NO ADDITIONAL COMPENSATION IS ALLOWED.
26. EACH DECK PATCH AND PARAPET REPAIR LOCATION IS TO BE COMPLETED IN 1 NIGHT. IN THE EVENT CONSTRUCTION EXCEEDS THE CONTRACTUAL SCHEDULE, THE CONTRACTOR SHALL STAGE THE WORK TO ALLOW EXISTING CORRIDOR DEMANDS UNTIL THE CONTRACT IS DONE AT NO ADDITIONAL COST TO THE OWNER.
27. CONSTRUCTION HOURS SHALL BE AS NOTED IN SPECIAL PROVISIONS.

STAGING NARRATIVE

1. THE STAGING HEREIN IS TO DESCRIBE THE CONSTRUCTION STAGING FOR DECK PATCHES 1-3 ON NB I-90/94, S.N. 016-1112.
2. DECK PATCH 4 ON SB I-90/94, S.N. 016-0137, WILL NOT REQUIRE STAGED CONSTRUCTION.
3. PARAPET REPAIRS TO I-90/94, S.N. 016-1140, RAMP B, WILL NOT REQUIRE STAGED CONSTRUCTION. PARAPET REPAIRS WILL REQUIRE A FULL RAMP CLOSURE AND DETOUR.

STAGE 1 - PATCH 1

MAINTENANCE OF TRAFFIC ALONG NB I-90/94, S.N. 016-1112

- RAMP C
 - MAINTAIN A SINGLE LANE, 11-FOOT WIDE MINIMUM, OF RAMP C TRAFFIC TO ADJOIN WITH I-90/94 THROUGH LANE TRAFFIC.
 - CONSTRUCT A 540 FOOT LANE CLOSURE TAPER FOR THE RIGHT LANE WITH DIRECTION INDICATOR BARRICADES SPACED 25 FEET APART. BEGIN TAPER 400 FEET UPSTREAM OF CONCRETE BARRIER GORE.
 - PROTECT WORK ZONE WITH TYPE II BARRICADES. WORK ZONE BEGINS 200 FEET UPSTREAM OF CONCRETE BARRIER GORE AND ENDS 100 FEET DOWNSTREAM OF THE GORE.
 - SURROUND THE PERIMETER OF THE WORK ZONE WITH TYPE II BARRICADES SPACED 50 FEET APART.
 - **INSTALL ARROW BOARD 75 FEET DOWNSTREAM FROM THE BEGINNING OF THE TAPER.**
 - INSTALL CONSTRUCTION SIGNS IN SUCCESSIVE ORDER EACH SPACED 200 FEET APART IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLAN. CONSTRUCTION APPROACH SIGNS END 540 FEET UPSTREAM OF THE BEGINNING OF THE LANE CLOSURE TAPER.

STAGE 2 - PATCHES 2 AND 3

MAINTENANCE OF TRAFFIC ALONG NB I-90/94, S.N. 016-1112

- RAMP C
 - MAINTAIN A SINGLE LANE, 11-FOOT WIDE MINIMUM, OF RAMP C TRAFFIC TO ADJOIN WITH I-90/94 THROUGH LANE TRAFFIC.
 - CONSTRUCT A 540 FOOT LANE CLOSURE TAPER FOR THE LEFT LANE WITH DIRECTION INDICATOR BARRICADES SPACED 20 FEET APART. TAPER IS TO BEGIN 70 FEET UPSTREAM OF CONCRETE BARRIER GORE.
 - PROTECT WORK ZONE WITH TYPE II BARRICADES SPACED 100 FEET APART. WORK ZONE BEGINS 140 FEET DOWNSTREAM OF CONCRETE BARRIER GORE AND ENDS 350 FEET FURTHER DOWNSTREAM.
 - **INSTALL ARROW BOARD 75 FEET DOWNSTREAM OF BEGINNING OF THE TAPER.**
 - INSTALL CONSTRUCTION SIGNS IN SUCCESSIVE ORDER EACH SPACED 200 FEET APART IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLAN. CONSTRUCTION APPROACH SIGNS END 200 FEET UPSTREAM OF THE BEGINNING OF THE LANE CLOSURE TAPER.
 - WORK ZONE IS TO BE COMBINED WITH THE WORK ZONE FOR BRIDGE DECK REPAIR 3. BRIDGE DECK REPAIR 3 IS IN THE RIGHT MOST THROUGH LANE OF I-90/94 NB.
- NB I-90/94 THROUGH LANES
 - WORK ZONE IS TO BE COMBINED WITH THE WORK ZONE FOR BRIDGE DECK REPAIR 2. BRIDGE DECK REPAIR 2 IS IN THE LEFT LANE OF RAMP C.
 - MAINTAIN 3 LANES OF THROUGH TRAFFIC AT ALL TIMES.
 - PROTECT WORK ZONE WITH TYPE II BARRICADES ALONG THE PERIMETER SPACED 100 FEET APART.
 - PROTECT WORK ZONE WITH TYPE II BARRICADES 500 FEET UPSTREAM OF THE WORK ZONE SPACED 100 FEET APART.
 - CONSTRUCT A 1000 FOOT TAPER WITH DIRECTION INDICATOR BARRICADES SPACED 50 FEET APART, UPSTREAM OF THE TYPE II BARRICADES.
 - INSTALL ROAD CONSTRUCTION SIGNS, ARROW BOARDS, AND PCMS IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLAN.

MAINTENANCE OF TRAFFIC ALONG SB I-90/94, S.N. 016-0137

- PROTECT WORK ZONE WITH TYPE II BARRICADES ALONG THE PERIMETER SPACED 100 FEET APART.
 - PROTECT WORK ZONE WITH TYPE II BARRICADES 500 FEET UPSTREAM OF THE WORK ZONE SPACED 100 FEET APART.
 - CONSTRUCT A 1000 FOOT TAPER WITH DIRECTION INDICATOR BARRICADES SPACED 50 FEET APART, UPSTREAM OF THE TYPE II BARRICADES.
 - CONSTRUCT A 1000 FOOT TANGENT WITH TYPE II BARRICADES SPACED 50 FEET APART, UPSTREAM OF THE DIRECTION INDICATOR BARRICADES.
 - REPEAT TAPER AND TANGENT DISTANCES FOR THREE LANE CLOSURE
 - INSTALL ROAD CONSTRUCTION SIGNS, ARROW BOARDS, AND PCMS IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLAN.
- RAMP
- CONSTRUCT A 540 FOOT LANE CLOSURE TAPER FOR THE LEFT LANE WITH DIRECTION INDICATOR BARRICADES SPACED 25 FEET APART. BEGIN TAPER 50 FEET DOWNSTREAM OF CONCRETE BARRIER GORE.
 - LANE CLOSURE IS DONE IN ORDER TO AVOID MAINLINE CONFLICT
 - INSTALL CONSTRUCTION SIGNS IN SUCCESSIVE ORDER EACH SPACED 200 FEET APART IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLAN.
 - CONSTRUCTION APPROACH SIGNS END 200 FEET UPSTREAM OF THE BEGINNING OF THE LANE CLOSURE TAPER.

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111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

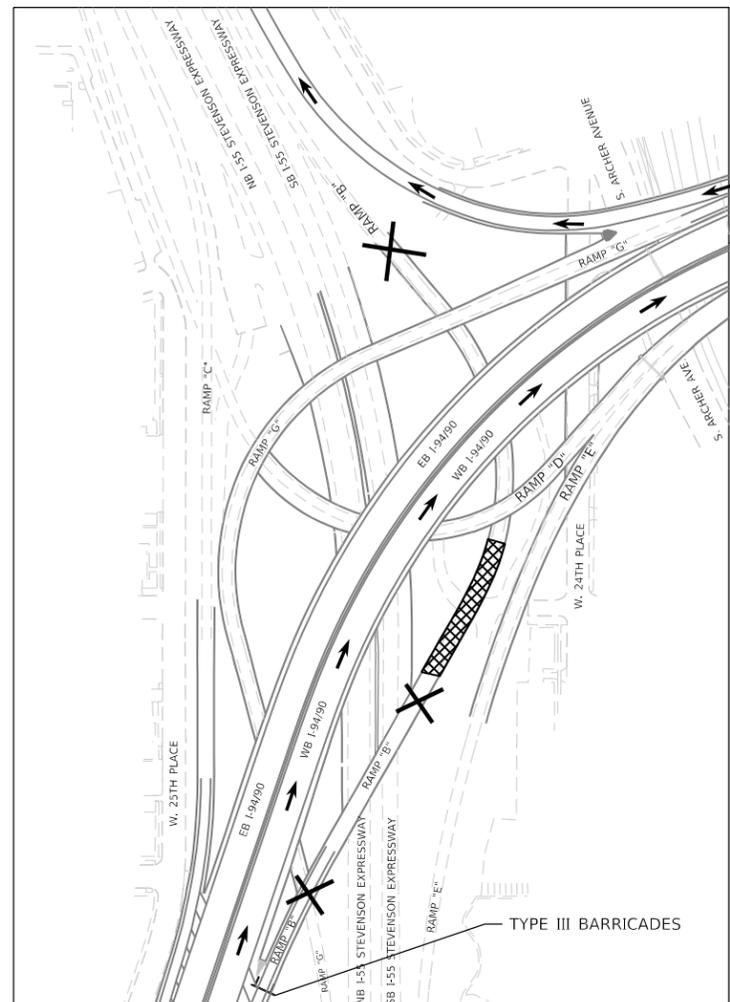
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I 94/90 (DAN RYAN EXPRESSWAY) BRIDGE REPAIRS
TRAFFIC CONTROL GENERAL NOTES**

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	5
SCALE:			CONTRACT NO. 62G16	
SHEET OF SHEETS		ILLINOIS FED. AID PROJECT		

RAMP "B" CLOSED (WB I-94/90 EXIT TO SB I-55)



RAMP CLOSURE SHALL FOLLOW DISTRICT 1 STANDARD DETAIL TC-08

TYPE III BARRICADES



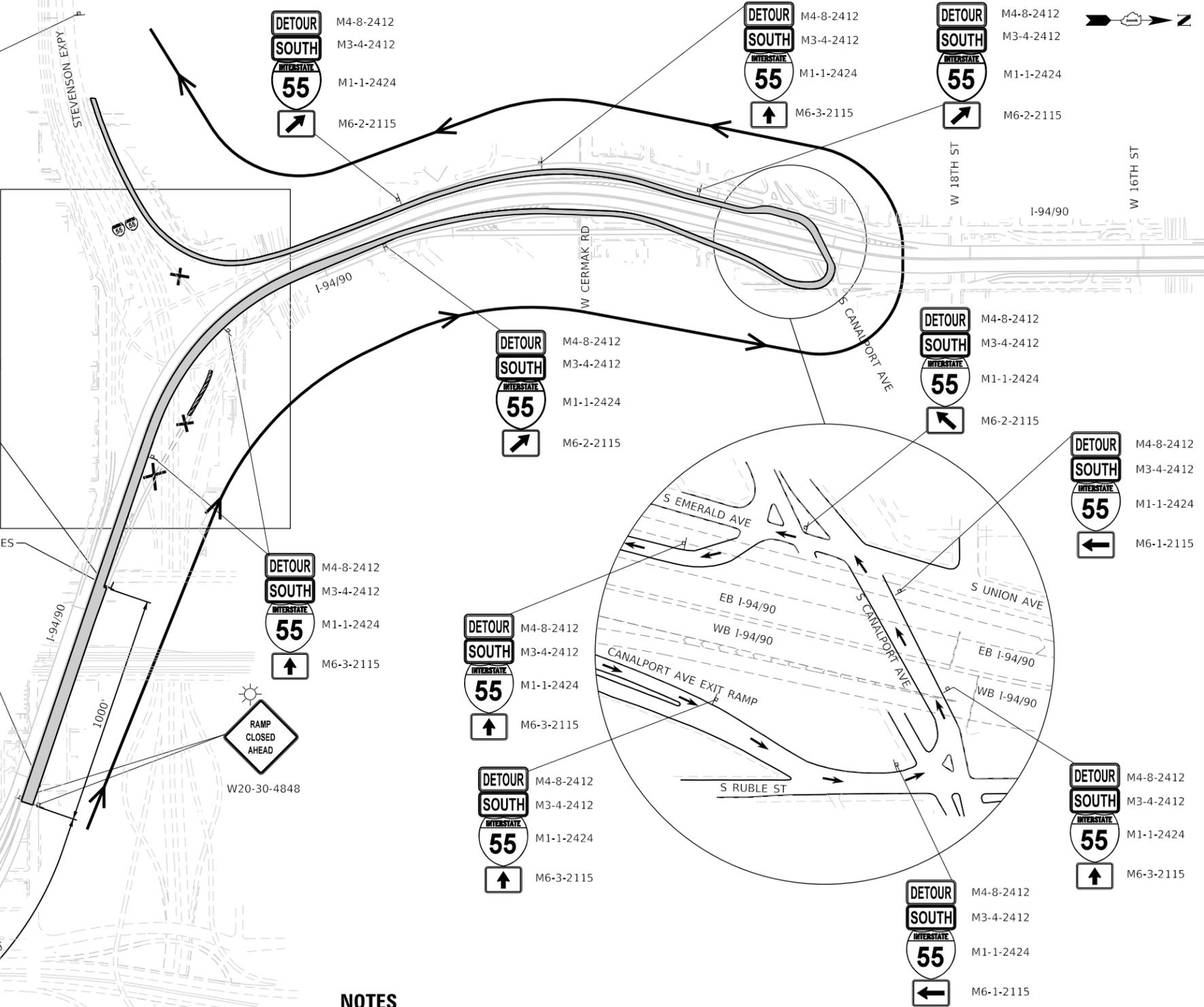
LEGEND:

- TYPE III BARRICADES CONFORMING TO DISTRICT STD. TC-08 WITH 2 FLASHING LIGHTS PER BARRICADE
- CONSTRUCTION ZONE
- DETOUR ROUTE
- TRAFFIC FLOW
- TYPE A FLASHING LIGHT
- RAMP CLOSURE
- ENTRANCE RAMP FROM 31ST ST. TO NB I-90/94 CLOSED
- FOR LANE CLOSURE SEE SHEET TC-2A

FOR LANE CLOSURE SEE SHEET TC-2A



W20-1103-4848



NOTES

1. THE DETOUR HEREIN IS TO DESCRIBE ITS IMPLEMENTATION FOR THE COMPLETE CLOSURE OF RAMP B OF S.N. 016-1140.
2. DETOUR SIGNING MUST BE INSTALLED PRIOR TO RAMP CLOSURE.
3. RAMP CLOSURE SHALL FOLLOW THE LATEST VERSION OF THE IDOT HIGHWAY STANDARDS AND DISTRICT 1 STANDARD DETAIL TC-08.
4. PLACEMENT AND SPACING OF SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH IDOT DISTRICT 1 STANDARD DETAIL TC-08.
5. ALL DETOUR SIGNS SHALL HAVE AN ORANGE BACKGROUND WITH BLACK LETTERS.
6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OTHER ROAD WORK IN THE AREA.
7. THE COST OF SUPPLYING, ERECTING AND MAINTAINING BARRICADES, WARNING LIGHTS AND STANDARD SIGNS ALONG ALL DETOUR ROUTES SHALL BE INCLUDED IN THE CONTRACT COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
8. THIS DETOUR CAN ONLY BE USED DURING SPECIFIED TIMES. REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
9. DETOUR TO BE REMOVED AS SOON AS PARAPET REPAIRS ARE DONE, USE SHOULDER CLOSURE DURING CONCRETE CURE.
10. SHOULDER CLOSURE SHALL FOLLOW THE LATEST VERSION OF THE IDOT HIGHWAY STANDARDS AND DISTRICT 1 STANDARD DETAIL TC-17.

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111 S. Wacker Drive,
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	DRAWN - LG, YN	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I 94/90 (DAN RYAN EXPRESSWAY) BRIDGE REPAIRS
DETOUR ROUTE FOR RAMP "B" (SHEET 1 OF 2)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.J RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G16	

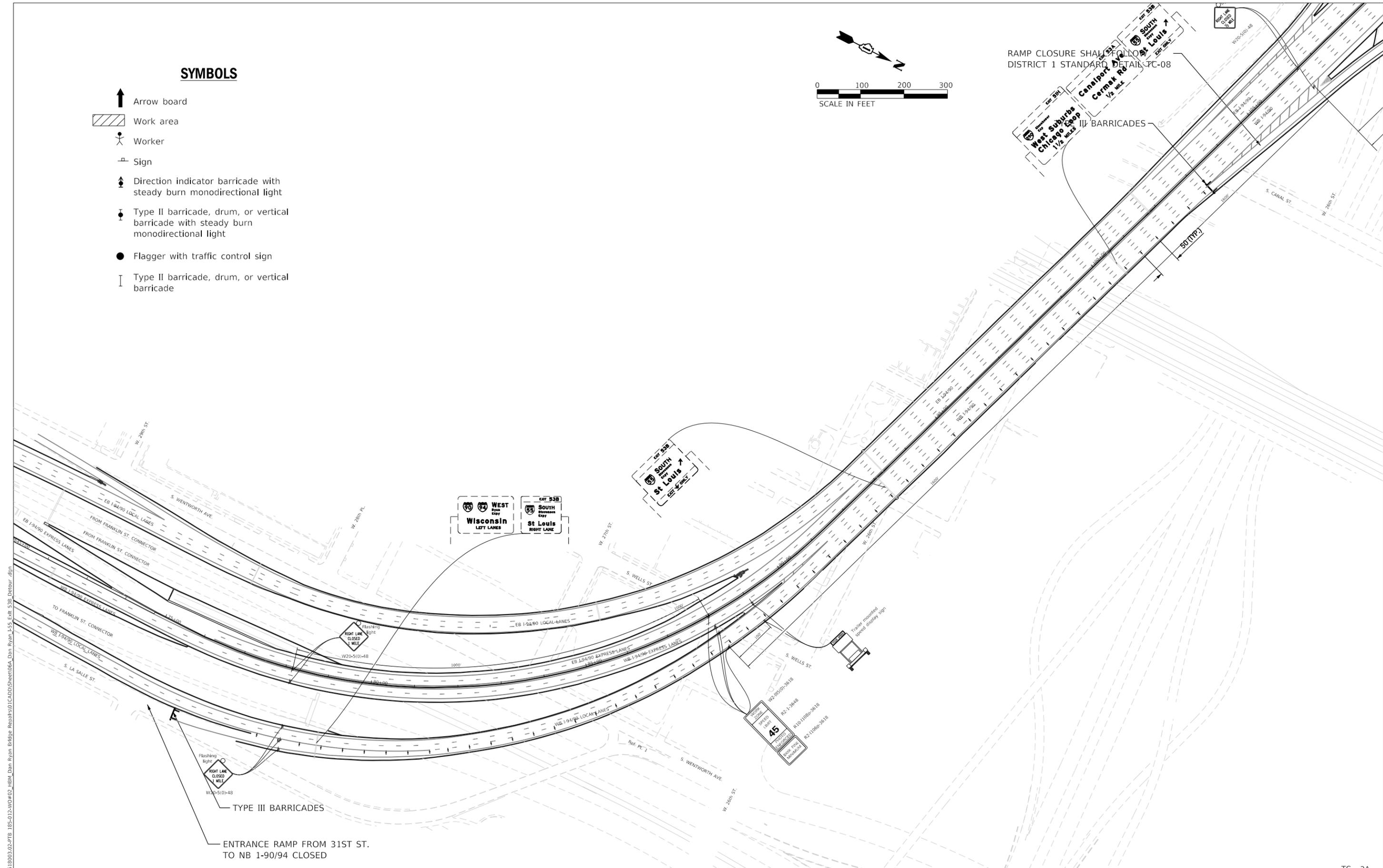
TC - 02

SYMBOLS

-  Arrow board
-  Work area
-  Worker
-  Sign
-  Direction indicator barricade with steady burn monodirectional light
-  Type II barricade, drum, or vertical barricade with steady burn monodirectional light
-  Flagger with traffic control sign
-  Type II barricade, drum, or vertical barricade



RAMP CLOSURE SHALL BE IN ACCORDANCE WITH DISTRICT 1 STANDARD DETAIL TC-08



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

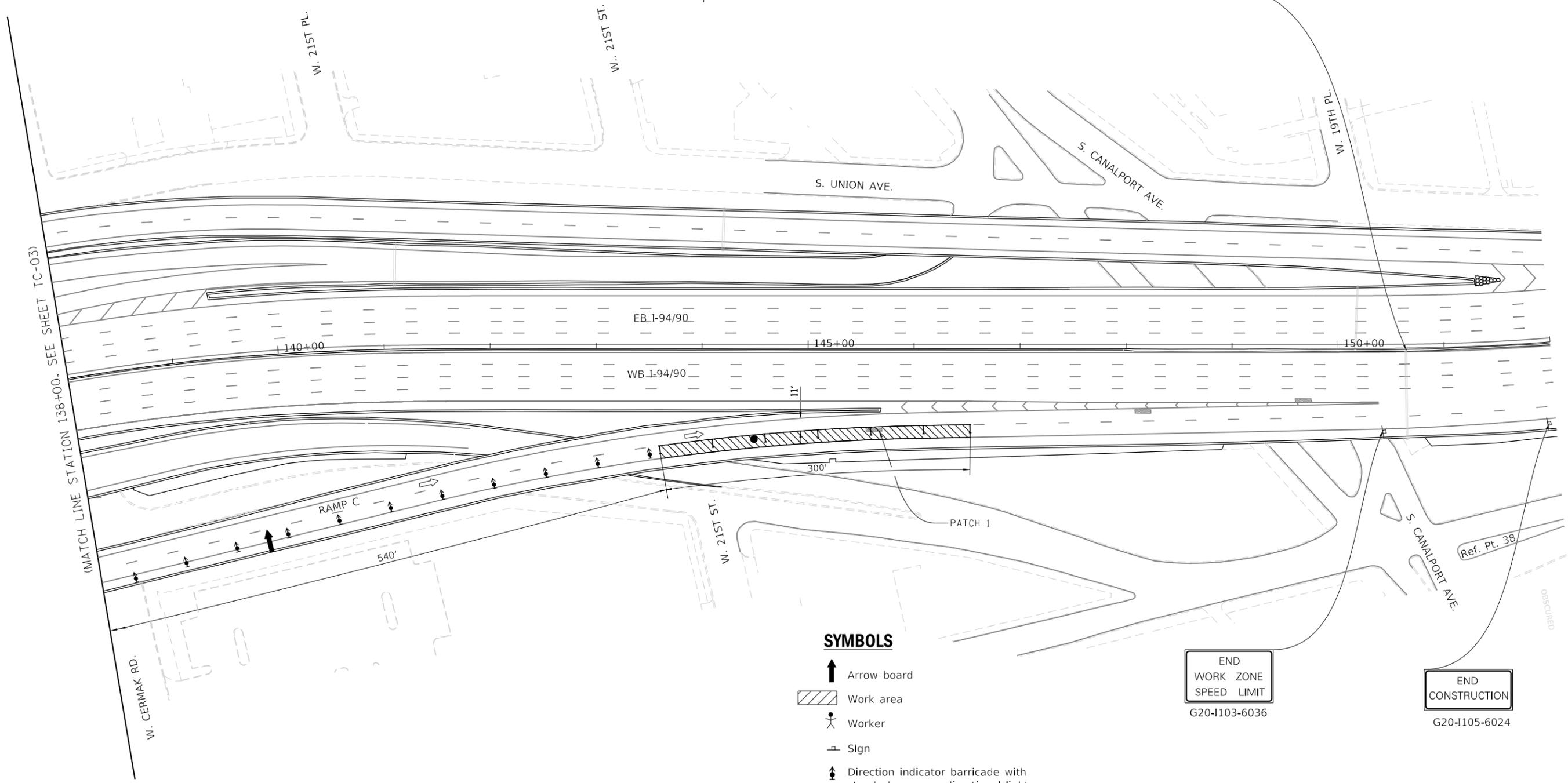
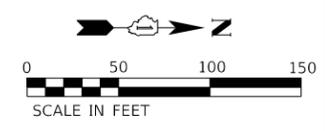
**F.A.I 94/90 (DAN RYAN EXPRESSWAY) BRIDGE REPAIRS
DETOUR ROUTE FOR RAMP "B" (SHEET 2 OF 2)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	6A
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G16	

TC - 2A

 WEST Kennedy Expy Wisconsin LEFT 3 LANES	EXIT 51H Eisenhower Exp West Suburbs Chicago Loop RIGHT 2 LANES	EXIT 52B Roosevelt Rd Taylor St 1/2 MILE
--	--	---



SYMBOLS

- Arrow board
- Work area
- Worker
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Flagger with traffic control sign
- Type II barricade, drum, or vertical barricade

END
WORK ZONE
SPEED LIMIT
G20-I103-6036

END
CONSTRUCTION
G20-I105-6024

MODEL: D:\a\h\111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783
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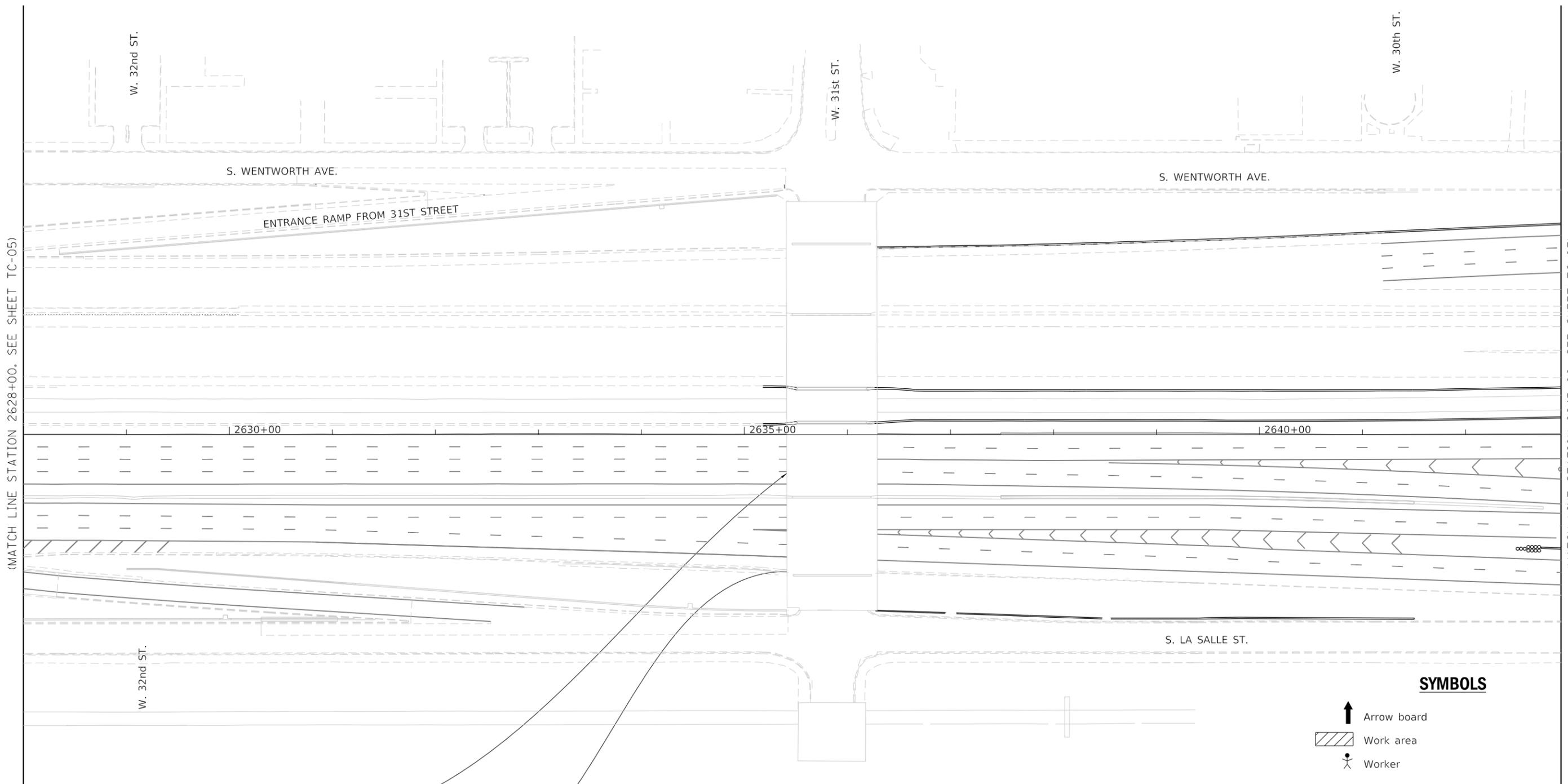
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I 94/90 (DAN RYAN EXPRESSWAY) BRIDGE REPAIRS
TRAFFIC CONTROL NB STAGE 1 (SHEET 2 OF 2)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G16	

TC - 04

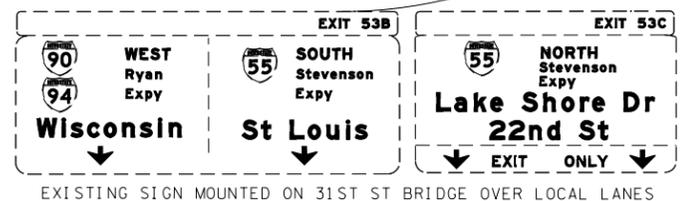


MATCH LINE STATION 2628+00. SEE SHEET TC-05)

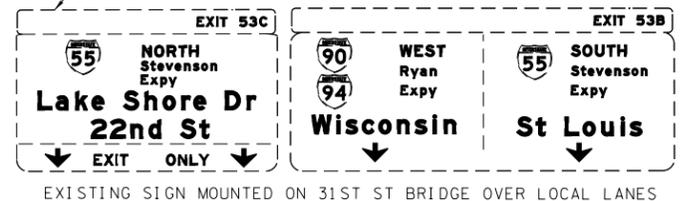
MATCH LINE STATION 2643+00. SEE SHEET TC-07)

SYMBOLS

- Arrow board
- Work area
- Worker
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Flagger with traffic control sign
- Type II barricade, drum, or vertical barricade



EXISTING SIGN MOUNTED ON 31ST ST BRIDGE OVER LOCAL LANES



EXISTING SIGN MOUNTED ON 31ST ST BRIDGE OVER LOCAL LANES

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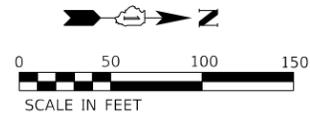
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I 94/90 (DAN RYAN EXPRESSWAY) BRIDGE REPAIRS
TRAFFIC CONTROL NB STAGE 2 (SHEET 2 OF 8)**

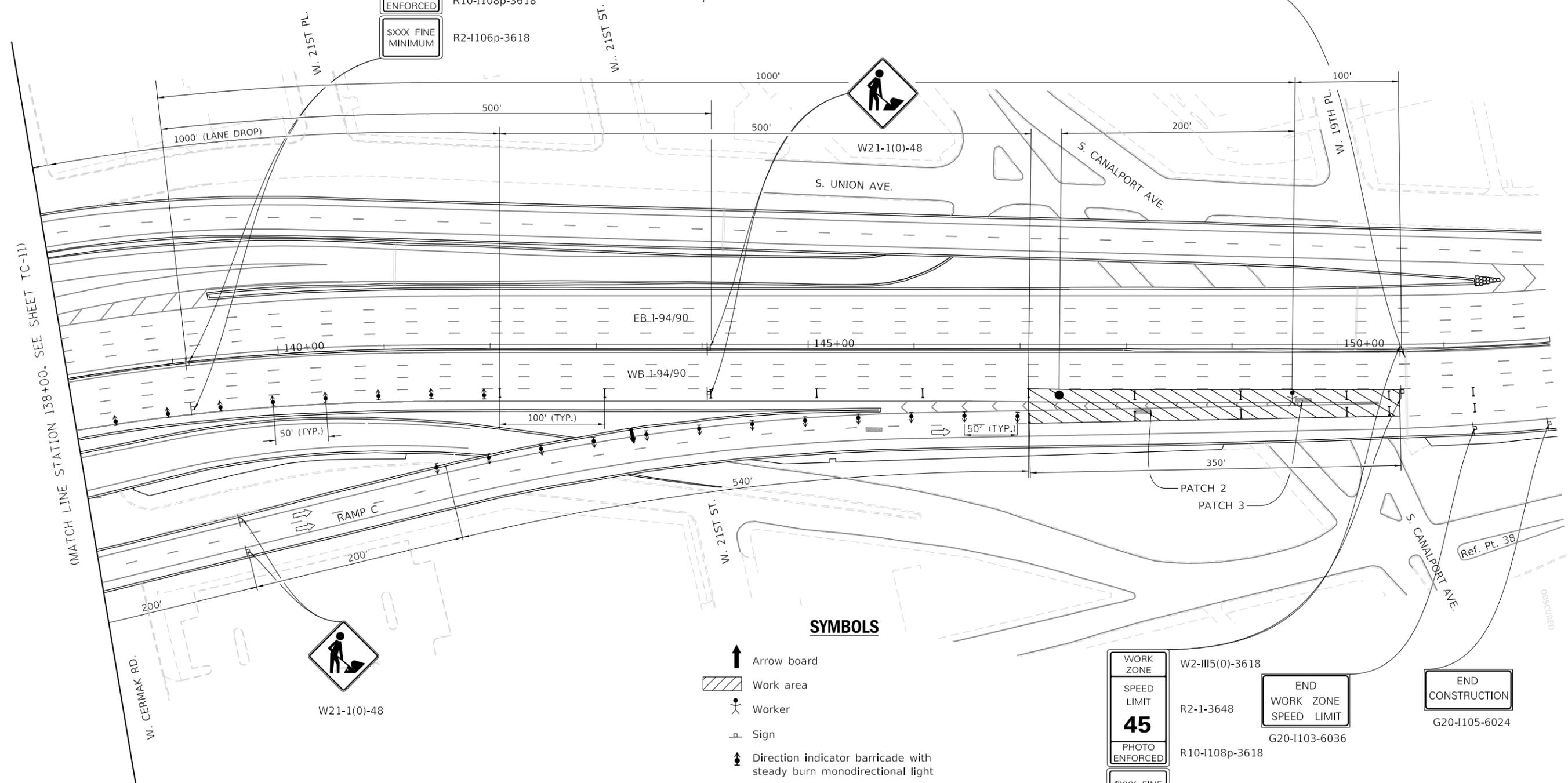
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G16	

TC - 06



WORK ZONE	W2-III5(0)-3618
SPEED LIMIT	R2-1-3648
PHOTO ENFORCED	R10-1108p-3618
\$XXX FINE MINIMUM	R2-1106p-3618



SYMBOLS

- Arrow board
- Work area
- Worker
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Flagger with traffic control sign
- Type II barricade, drum, or vertical barricade

WORK ZONE	W2-III5(0)-3618	END WORK ZONE	G20-1103-6036
SPEED LIMIT	R2-1-3648	SPEED LIMIT	G20-1105-6024
PHOTO ENFORCED	R10-1108p-3618		
\$XXX FINE MINIMUM	R2-1106p-3618		

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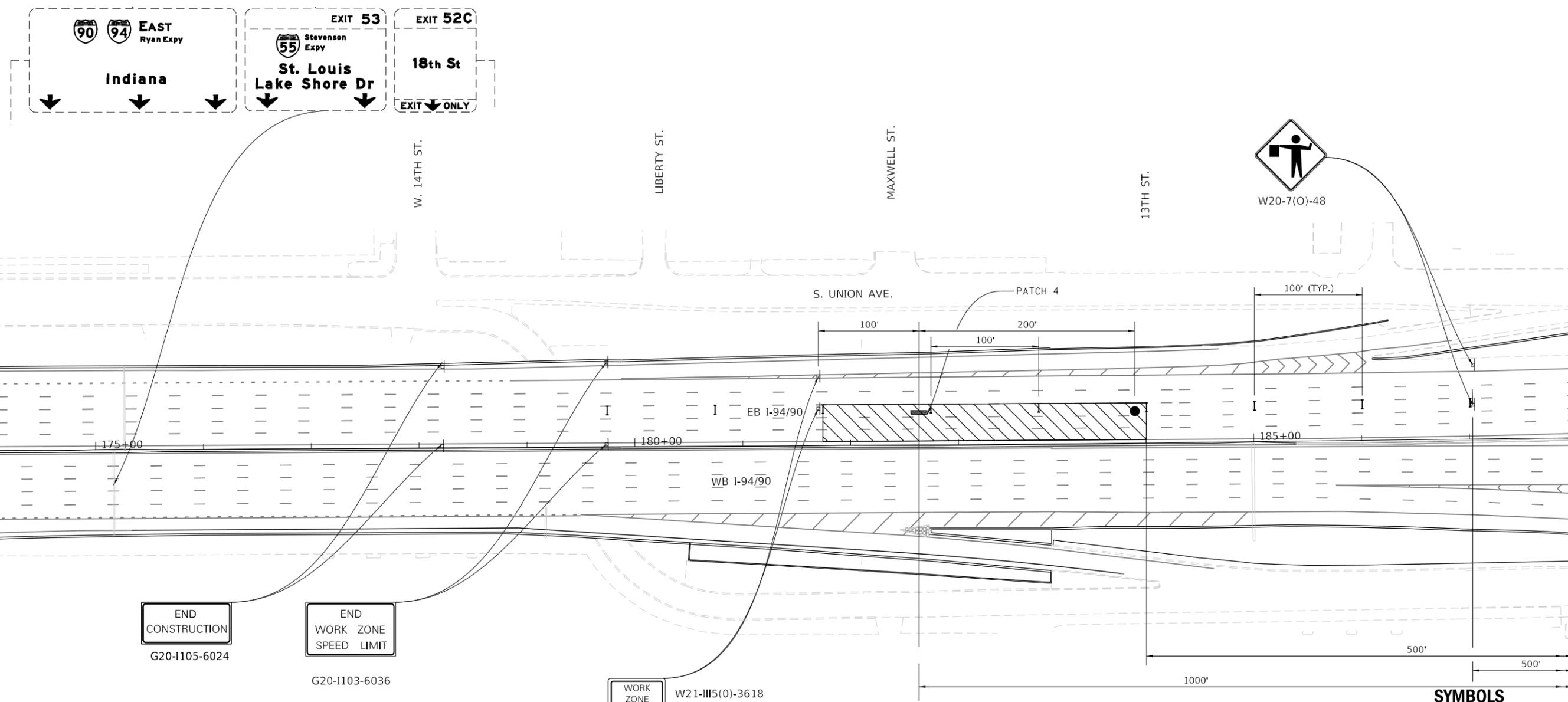
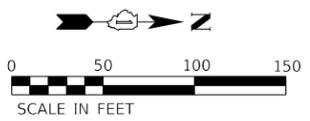
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	DATE - 3/29/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I 94/90 (DAN RYAN EXPRESSWAY) BRIDGE REPAIRS
TRAFFIC CONTROL NB STAGE 2 (SHEET 8 OF 8)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	16
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



END CONSTRUCTION
G20-I105-6024

END WORK ZONE SPEED LIMIT
G20-I103-6036

WORK ZONE W21-III5(0)-3618

SPEED LIMIT R2-1-3648

45

PHOTO ENFORCED R10-I108p-3618

SXXX FINE MINIMUM R2-I106p-3618

- SYMBOLS**
- Arrow board
 - Work area
 - Worker
 - Sign
 - Direction indicator barricade with steady burn monodirectional light
 - Type II barricade, drum, or vertical barricade with steady burn monodirectional light
 - Flagger with traffic control sign
 - Type II barricade, drum, or vertical barricade

(SEE SHEET TC-14)

MODEL: D:\a\h\111 S. Wacker Drive, Suite 3910 Chicago, IL 60606 Ph: 312-235-6783



USER NAME = awmohammed	DESIGNED - TOM	REVISED -
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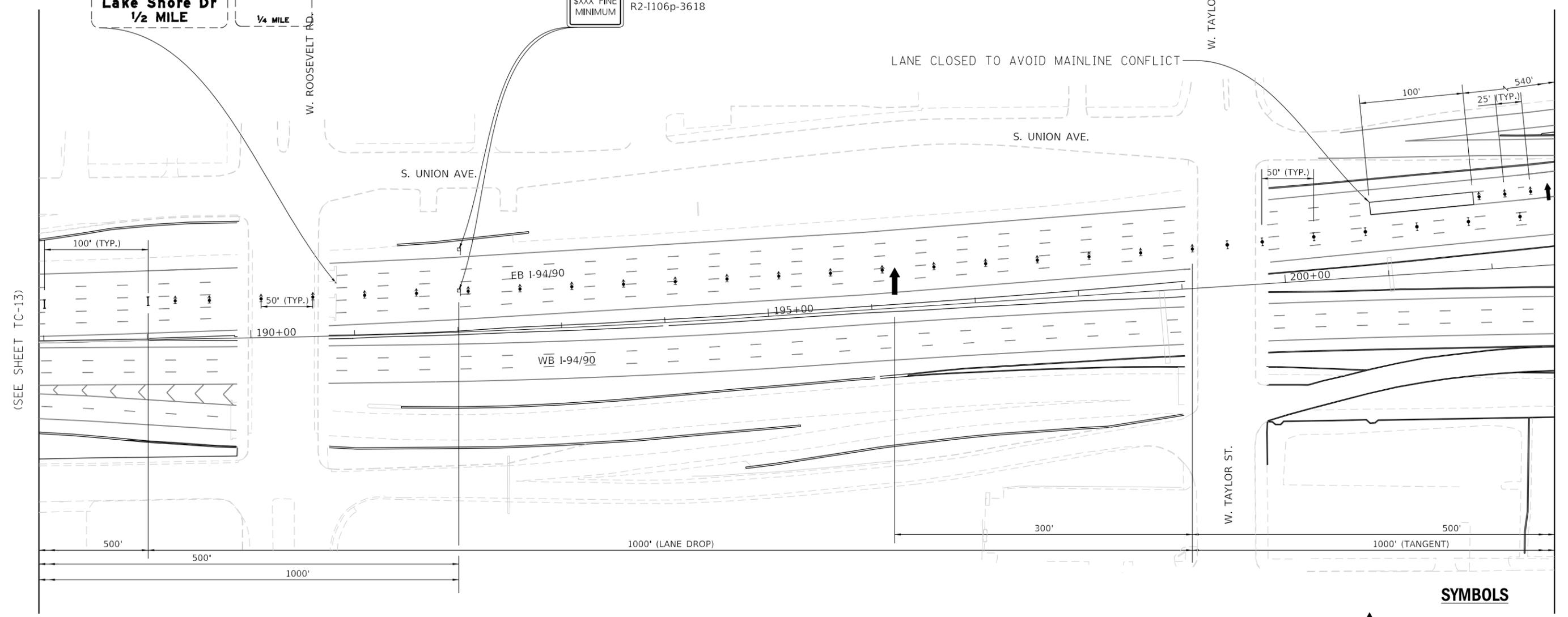
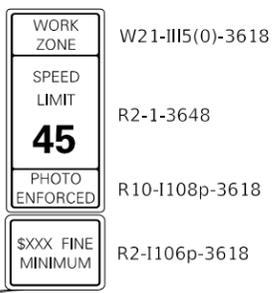
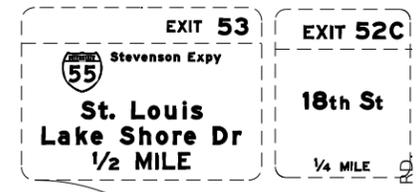
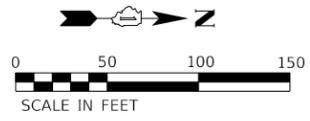
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I 94/90 (DAN RYAN EXPRESSWAY) BRIDGE REPAIRS
TRAFFIC CONTROL SB (SHEET 1 OF 6)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	17
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G16	

TC - 13



(SEE SHEET TC-13)

(SEE SHEET TC-15)

SYMBOLS

- Arrow board
- Work area
- Worker
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Flagger with traffic control sign
- Type II barricade, drum, or vertical barricade

TC - 14

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Chicago, IL 60606
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

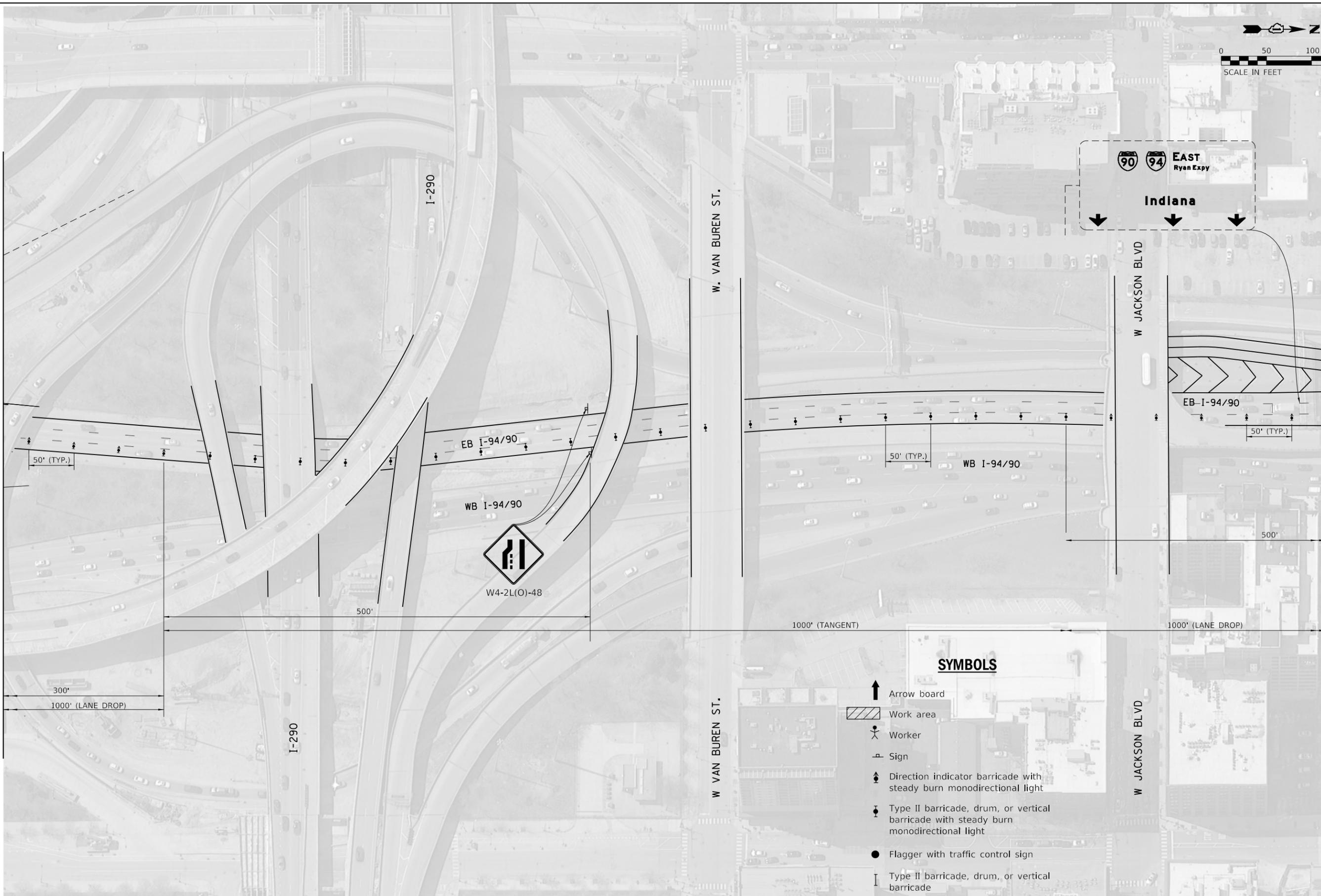
**F.A.I 94/90 (DAN RYAN EXPRESSWAY) BRIDGE REPAIRS
TRAFFIC CONTROL SB (SHEET 2 OF 6)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	18
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



(SEE SHEET TC-15)



(SEE SHEET TC-17)

SYMBOLS

- Arrow board
- Work area
- Worker
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Flagger with traffic control sign
- Type II barricade, drum, or vertical barricade

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AES
ENGINEERS & SURVEYORS

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USER NAME = awmohammed	DESIGNED - TOM	REVISED -
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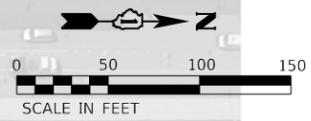
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I 94/90 (DAN RYAN EXPRESSWAY) BRIDGE REPAIRS
TRAFFIC CONTROL SB (SHEET 4 OF 6)**

SCALE: SHEET OF SHEETS STA. TO STA.

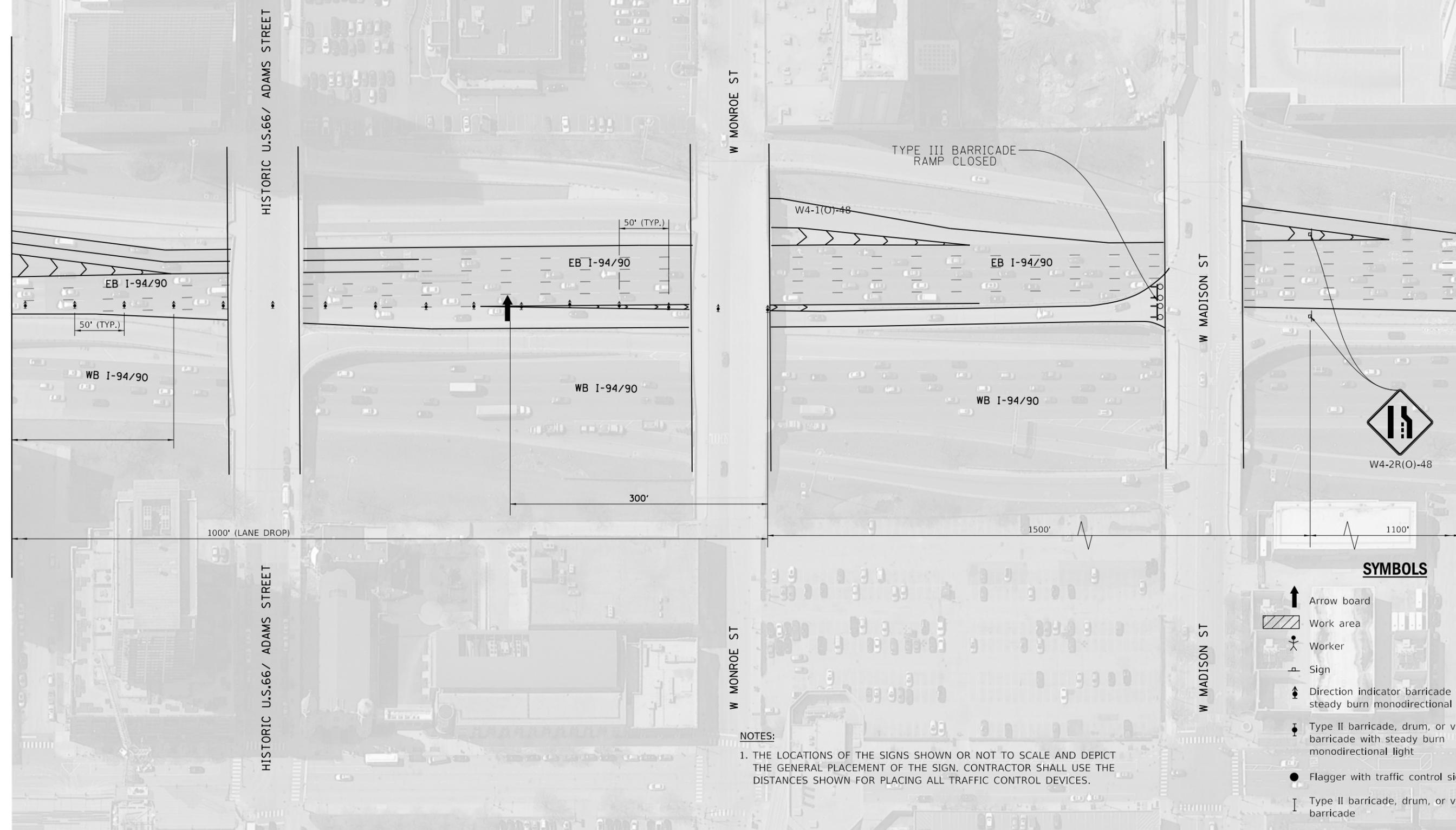
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94	2018-008-BJR	COOK	133	20
CONTRACT NO. 62G16			ILLINOIS FED. AID PROJECT	

TC - 16



(SEE SHEET TC-16)

(SEE SHEET TC-18)



SYMBOLS

-  Arrow board
-  Work area
-  Worker
-  Sign
-  Direction indicator barricade with steady burn monodirectional light
-  Type II barricade, drum, or vertical barricade with steady burn monodirectional light
-  Flagger with traffic control sign
-  Type II barricade, drum, or vertical barricade

NOTES:

1. THE LOCATIONS OF THE SIGNS SHOWN OR NOT TO SCALE AND DEPICT THE GENERAL PLACEMENT OF THE SIGN. CONTRACTOR SHALL USE THE DISTANCES SHOWN FOR PLACING ALL TRAFFIC CONTROL DEVICES.

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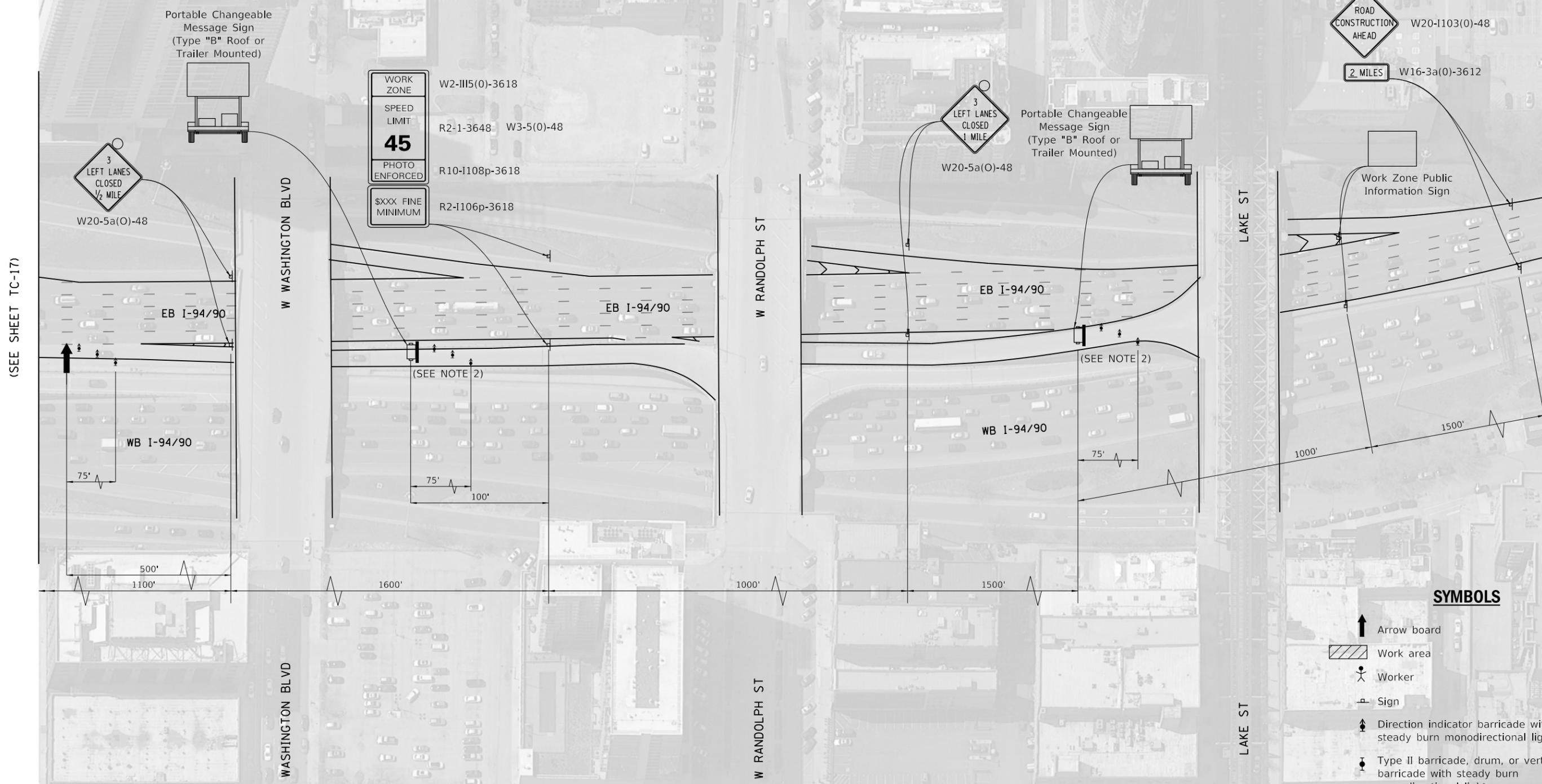
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I 94/90 (DAN RYAN EXPRESSWAY) BRIDGE REPAIRS
TRAFFIC CONTROL SB (SHEET 5 OF 6)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G16	

TC - 17



(SEE SHEET TC-17)

SYMBOLS

- Arrow board
- Work area
- Worker
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade, drum, or vertical barricade with steady burn monodirectional light
- Flagger with traffic control sign
- Type II barricade, drum, or vertical barricade

NOTES:

1. THE LOCATIONS OF THE SIGNS SHOWN OR NOT TO SCALE AND DEPICT THE GENERAL PLACEMENT OF THE SIGN. CONTRACTOR SHALL USE THE DISTANCES SHOWN FOR PLACING ALL TRAFFIC CONTROL DEVICES.
2. PORTABLE CHANGEABLE MESSAGE SIGNS, ARROW BOARDS AND ASSOCIATED BARRICADES ARE LOCATED ON THE I-94 (SB) LEFT SHOULDER.

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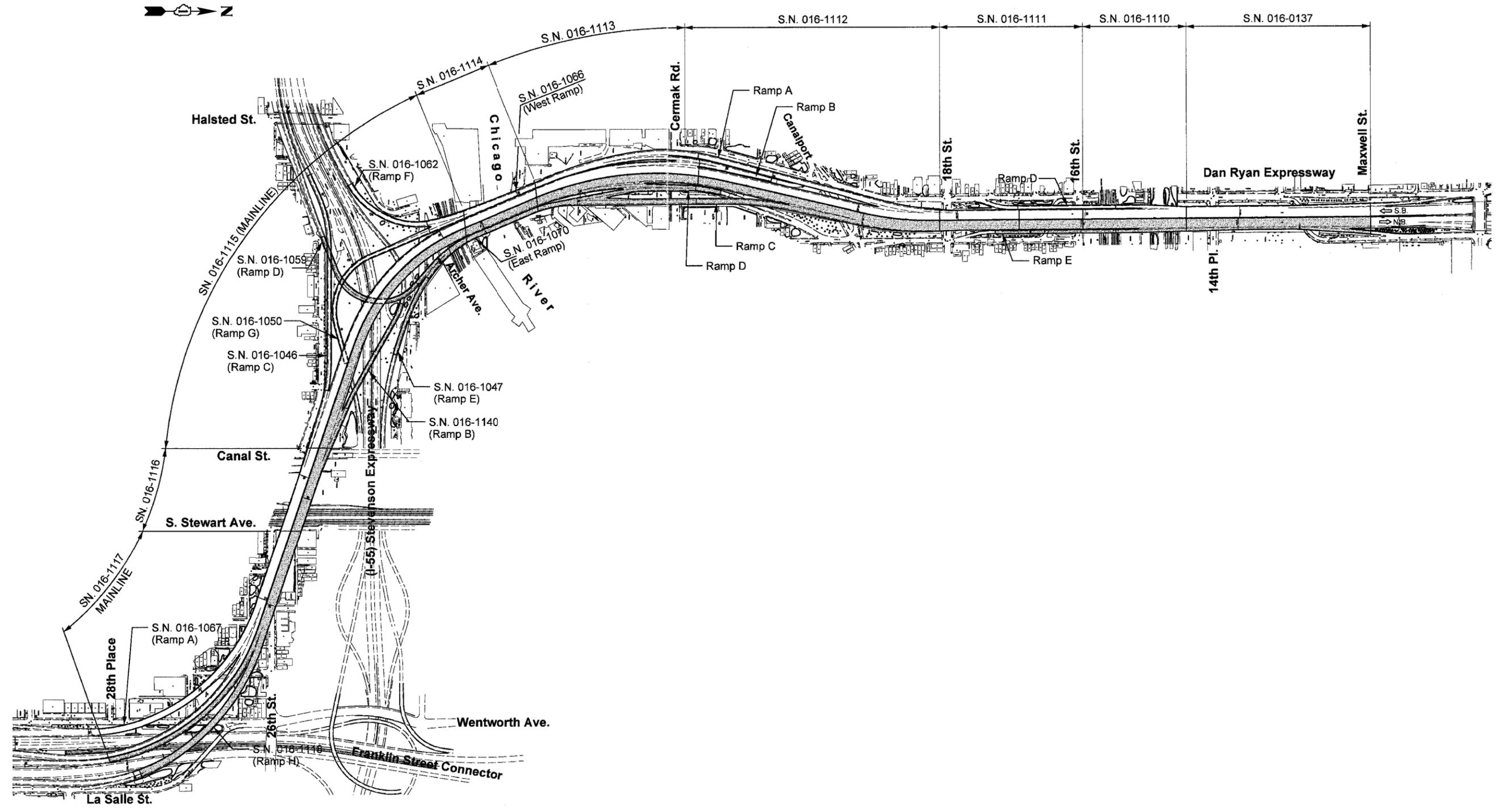
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**F.A.I 94/90 (DAN RYAN EXPRESSWAY) BRIDGE REPAIRS
TRAFFIC CONTROL SB (SHEET 6 OF 6)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	22
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62G16	



KEY PLAN

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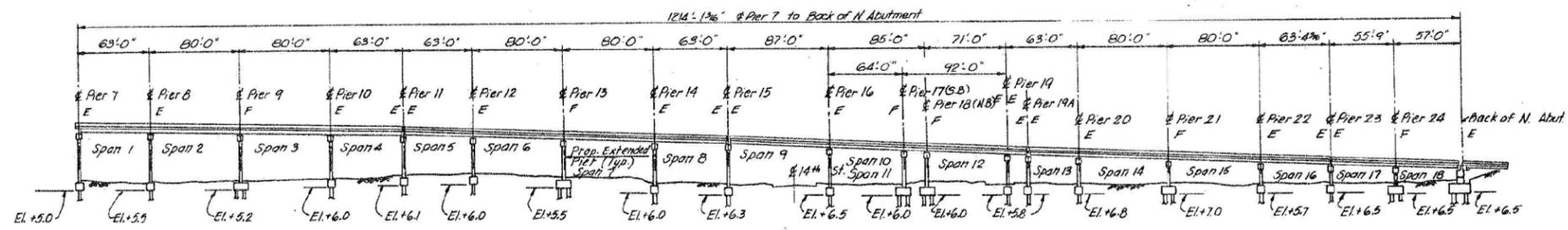


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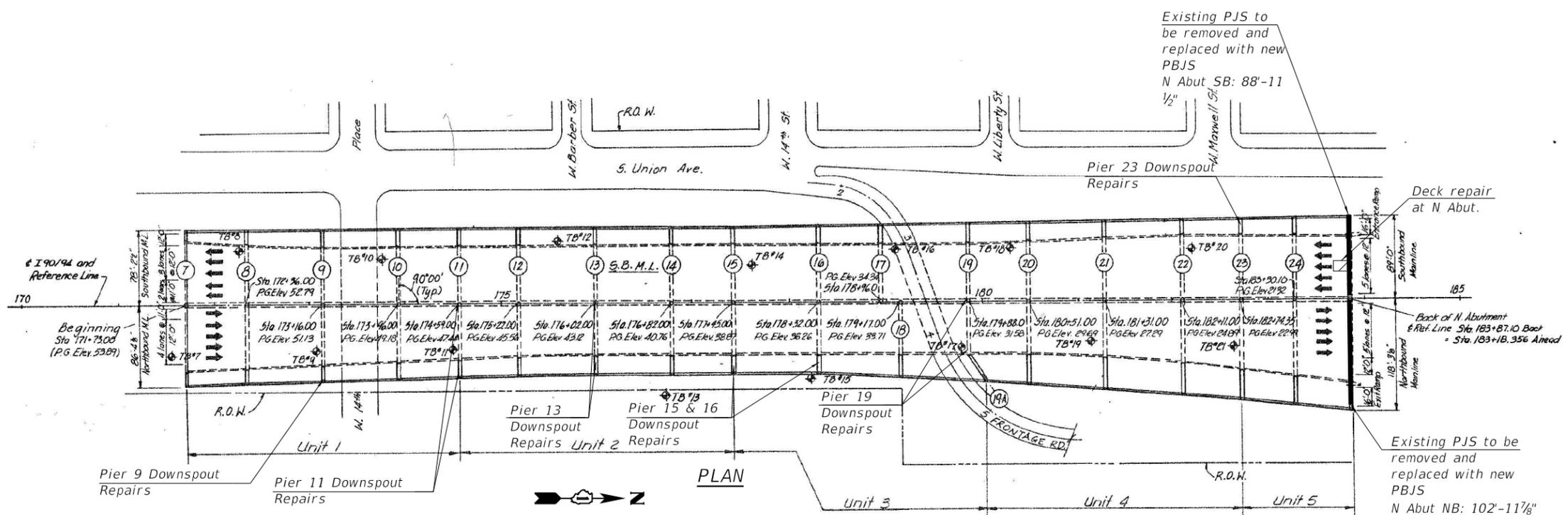
STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

KEY PLAN			
I-90/94 13TH ST TO 26TH ST			
SCALE:	SHEET KEY-1 OF	SHEETS	STA. TO STA.

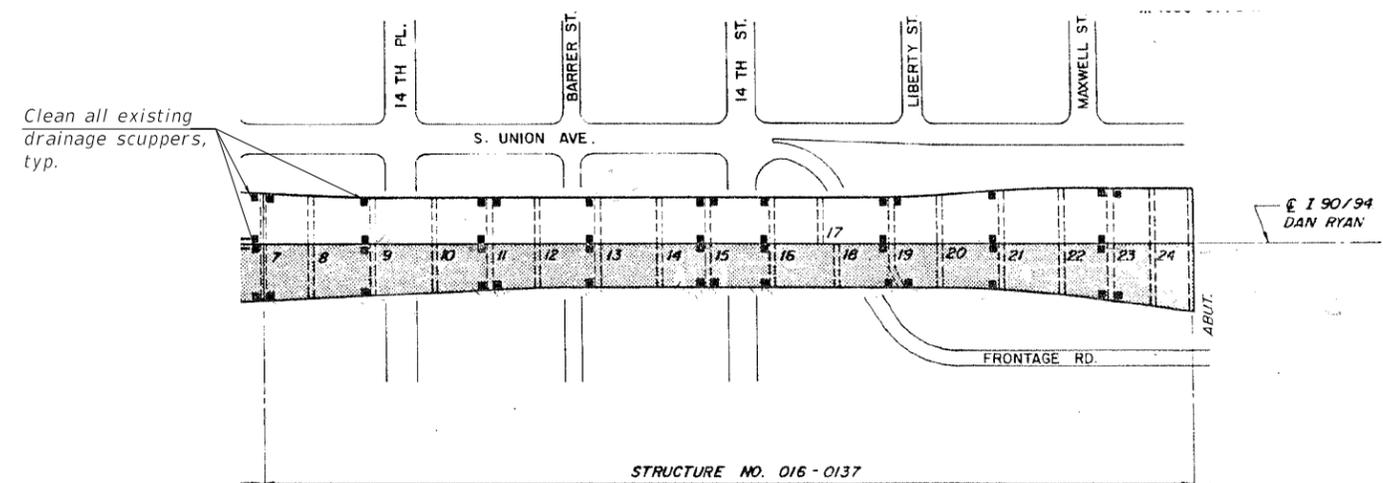
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94	2018-008-BJR	COOK	133	23
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



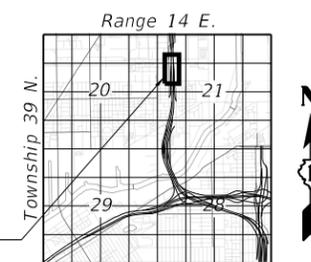
ELEVATION



PLAN



DECK DRAINAGE



LOCATION SKETCH

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PLOT DATE = 5/2/2018	DATE - 03/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 OVER MAXWELL ST TO 15TH ST SN 016-0137

F.A.P. RTE. 94	SECTION 2018-008-BJR	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 24
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET S1-1 OF S1-6 SHEETS STA. TO STA.

GENERAL NOTES:

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

SN 016-0137 SCOPE OF WORK

1. Remove and replace PJS with new Preformed Bridge Joint Seal (PBJS) covered in the Special Provisions at NB N Abutment and SB N Abutment.
2. Remove and replace broken and/or missing Drain pipes at P9 East Side, P11 Center, P11 East Side, P13 Center, P13 East Side, P15 East Side, P15 East Side, P16 East Side, P19 Center, P19 East Side, P23 West Side.
3. Perform partial depth deck repairs for SB Lane 3 at North Abutment.
4. Clean all deck drainage scuppers (23 NB and 23 SB).

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF DRAWINGS

- S1-1 General Plan and Elevation
- S1-2 General Notes, Index of Sheets and Total Bill Of Material
- S1-3 Joint Repair Details
- S1-4 Deck Patching Plan
- S1-5 Downspout Repairs Pier 9, 11, 13 and 15
- S1-6 Downspout Repairs Pier 16, 19 and 23

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cleaning Bridge scuppers and downspouts	Each	42
Bridge Drainage System Repairs	FOOT	51
Deck Slab Repair (Partial)	SQ YD	1
Preformed Joint Seal, 2"	FOOT	192

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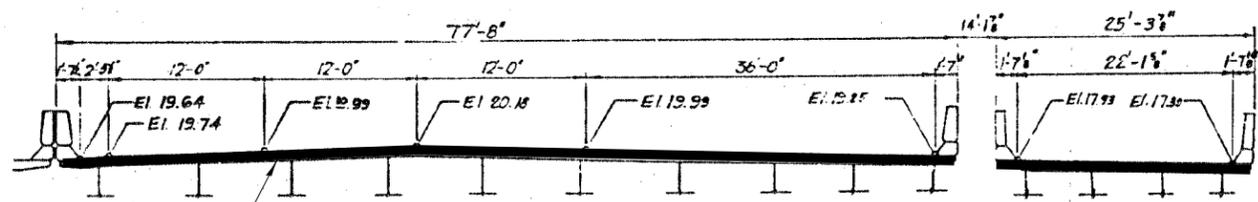
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PLOT DATE = 5/2/2018	DATE - 03/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIAL
I-90/94 OVER MAXWELL ST TO 15TH ST SN 016-0137

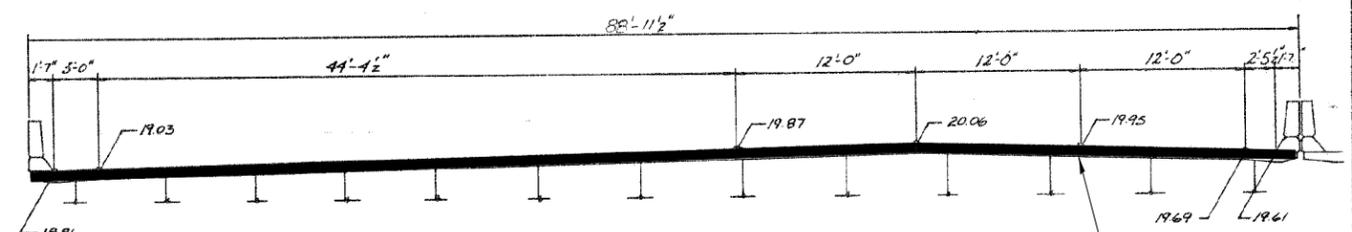
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



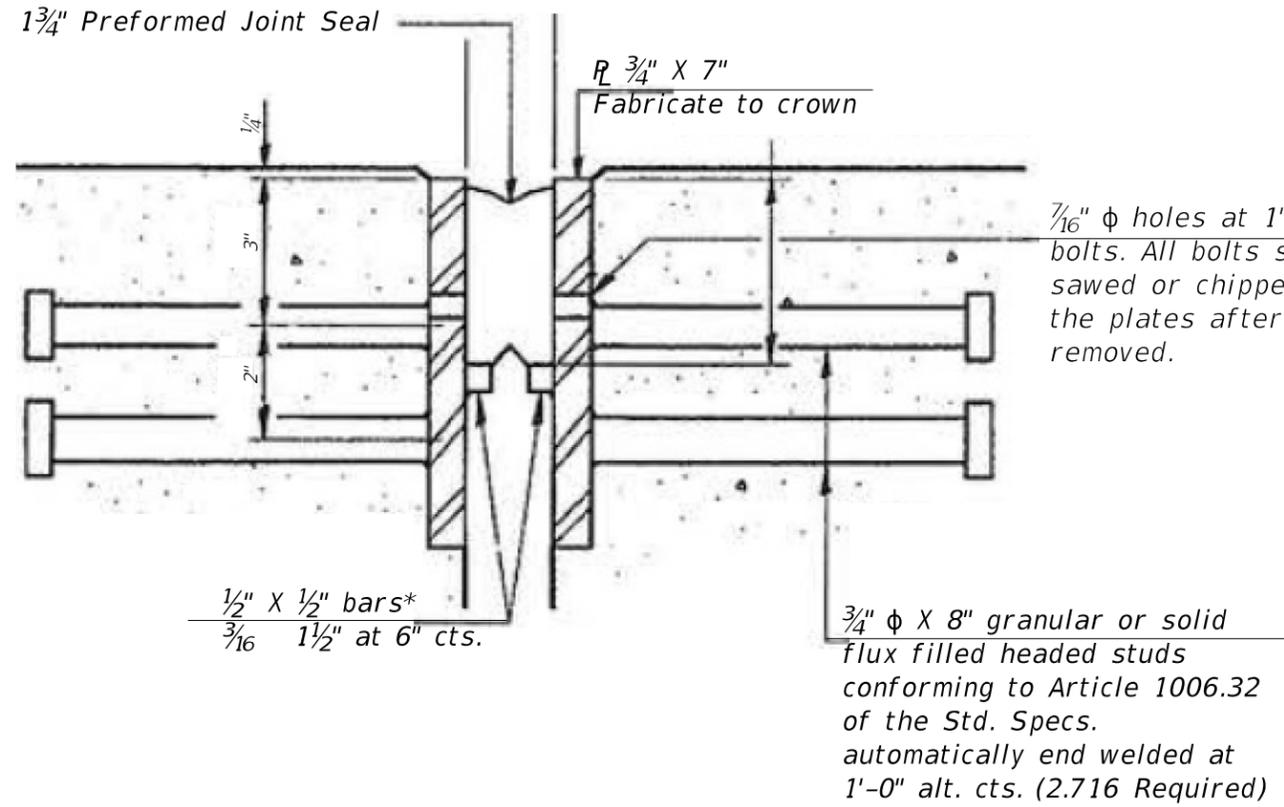
Expansion Joint Repairs
NB: 102'-11 7/8"

1 3/4" EXPANSION JOINT AT NB NORTH ABUTMENT
REPLACE PJS WITH PBJS



1 3/4" EXPANSION JOINT AT SB NORTH ABUTMENT
REPLACE PJS WITH PBJS

Expansion Joint Repairs
SB: 88'-11 1/2"



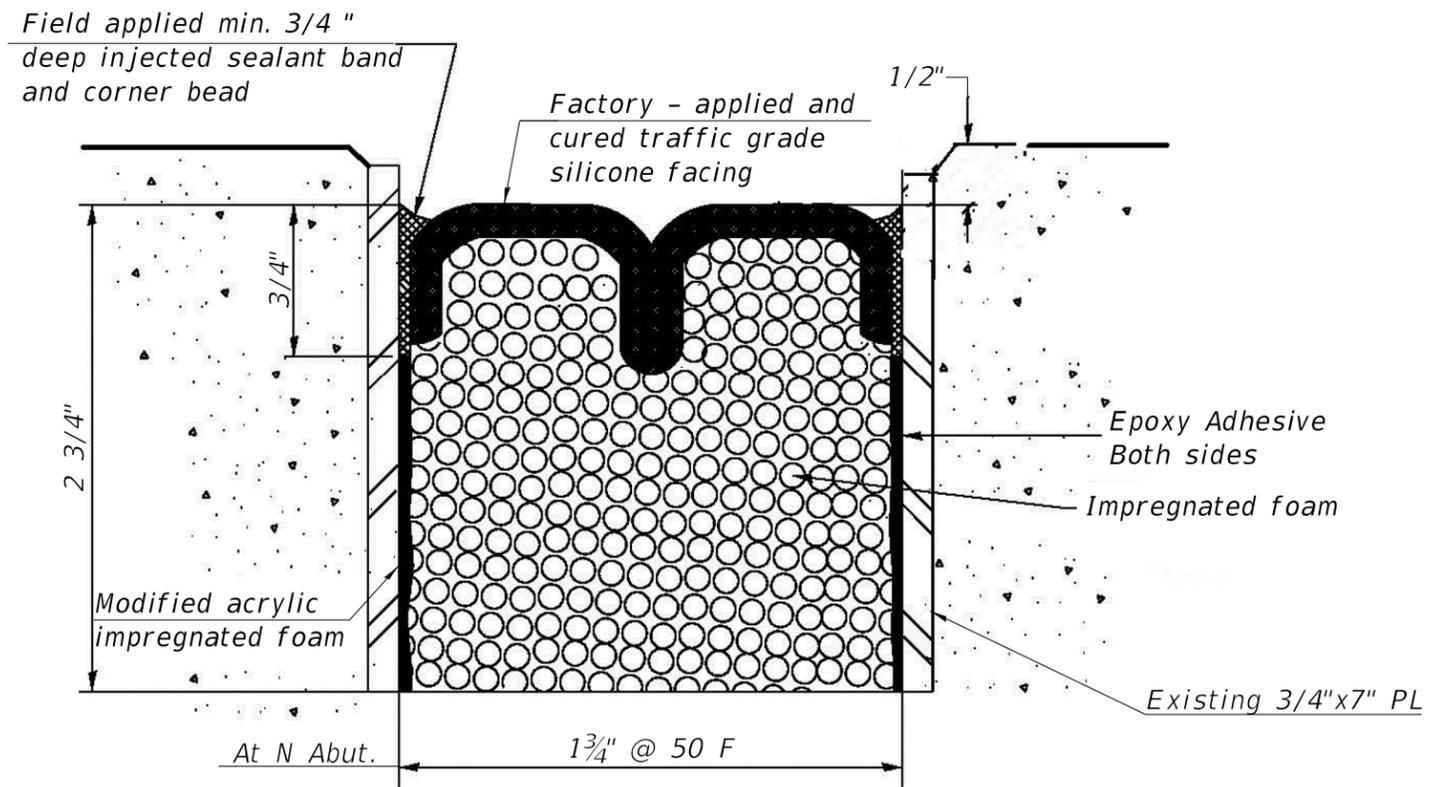
EXISTING BRIDGE JOINT SYSTEM
SECTION AT NORTH ABUTMENT

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Preformed Joint Seal, 2"	FOOT	192

TABLE 1

STRUCTURE	ABUTMENT	A
016-0137	N. ABUT.	1 3/4" @ 50° F



PROPOSED NEW PREFORMED JOINT SEAL
SECTION AT NORTH ABUTMENT

Note: The new joint shall be a "Preformed, Pre-compressed, Silicone Coated, Self-Expanding Sealant System" and paid for as Preformed Joint Seal. See special provision "Preformed Bridge Joint Seal" (PBJS).

FILE PATH = P:\1710-746 IDOT District 1\NO 2 Den Rgn Bridge Repairs\Sheet Files\SN 016-0137-0160137-003-Joint Repair Details.dgn



0160137-003-Joint Repair Details.dgn
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PLOT SCALE =
PLOT DATE = 5/2/2018

DESIGNED - EBK
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CHECKED - RTB
DATE - 03/19/2018

REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

JOINT REPAIR DETAILS
I-9094 OVER MAXWELL ST TO 15TH ST SN 016-0137

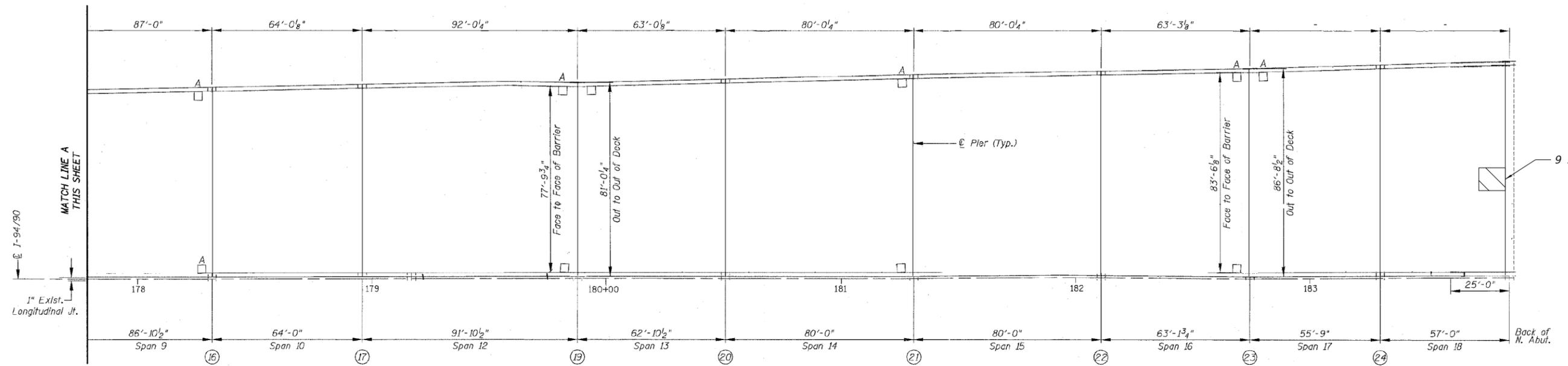
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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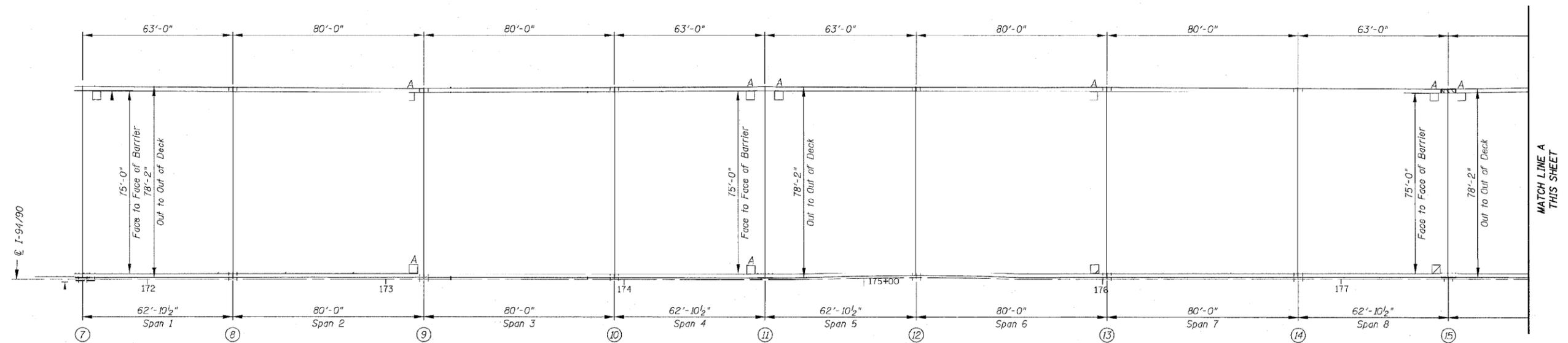
CONTRACT NO. 62G16
ILLINOIS FED. AID PROJECT

BILL OF MATERIAL

ITEM	UNIT	TOTAL QUANTITY
Deck Slab Repair (Partial)	Sq. Yd.	1



SN 016-0137 SB PARTIAL DECK PLAN



SN 016-0137 SB PARTIAL DECK PLAN

Legend

	Deck slab repair
--	------------------

FILE PATH = P:\1710-746 IDOT District 1\NO 2 Den Rgn Bridge Repairs\Sheet Files\SN 016-0137\0160137-004-Deck Patching Plan.dgn



0160137-004-Deck Patching Plan.dgn
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 PLOT DATE = 5/2/2018

DESIGNED - EBK
 DRAWN - EBK
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STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

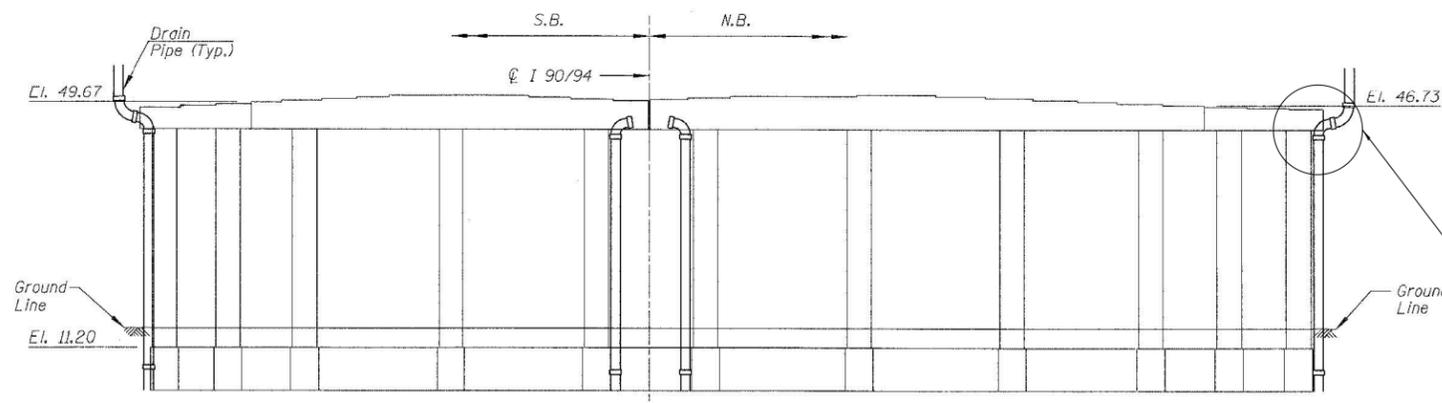
DECK PATCHING PLAN
 I-90/94 OVER MAXWELL ST TO 15TH ST SN 016-0137

SCALE: SHEET S1-4 OF S1-6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	27
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	FOOT	51

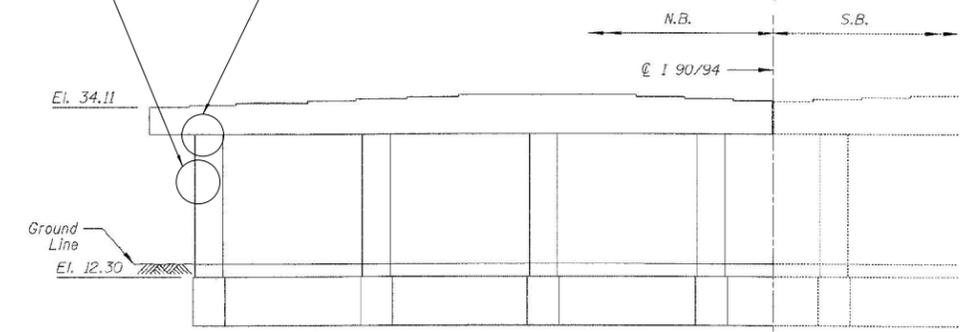


PIER 9 SOUTH ELEVATION
(Looking North)

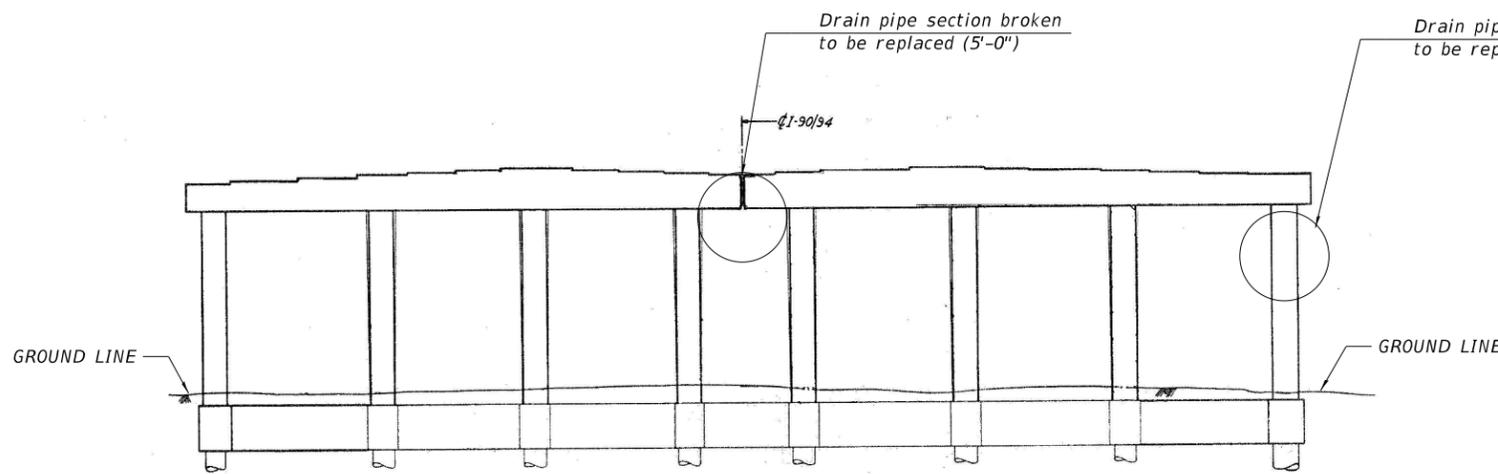
Drain pipe section broken to be replaced (2'-0")

Drain pipe section broken to be replaced (1'-0")

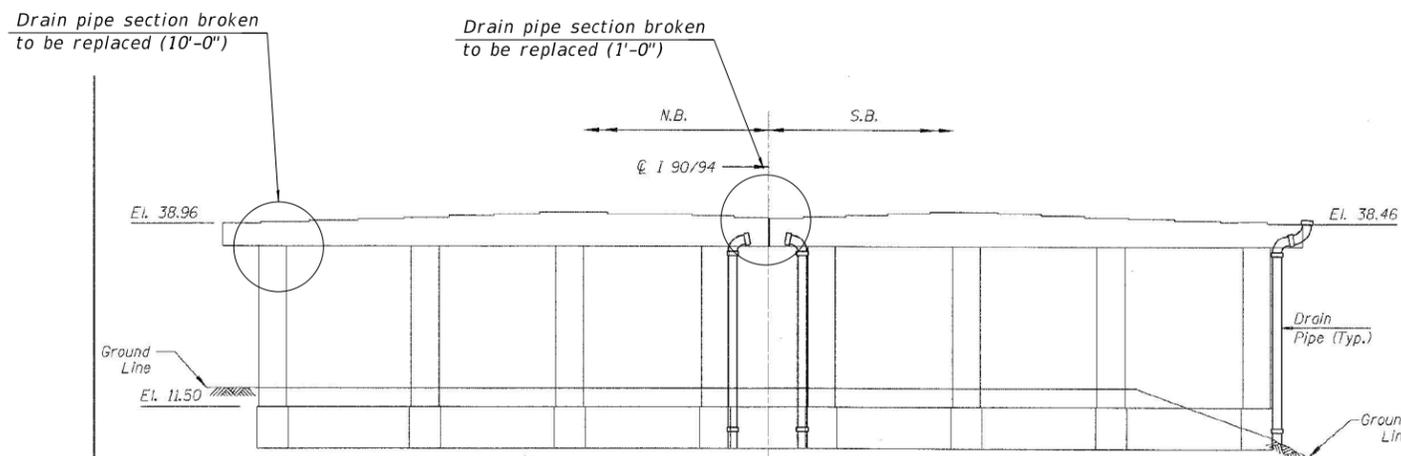
Drain pipe section broken to be replaced (2'-0")



PIER 15 NORTH ELEVATION
(Looking South)



PIER 11
(Looking North)



PIER 13 NORTH ELEVATION
(Looking South)

DRAINAGE REPAIR NOTES

- The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
- 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.
- When existing drain pipes are wrapped with tape, the tape shall be removed, if the pipe is broken or missing a connection, the pipe shall be replaced or otherwise new tape shall be provided. The type of tape shall be approved by the Engineer. The cost shall be included in "Bridge Drainage System Repairs" and the length measured shall be the length of the pipe replaced or length of pipe re-taped.
- The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
- For pier location, see General Plan and Elevation Sheet.

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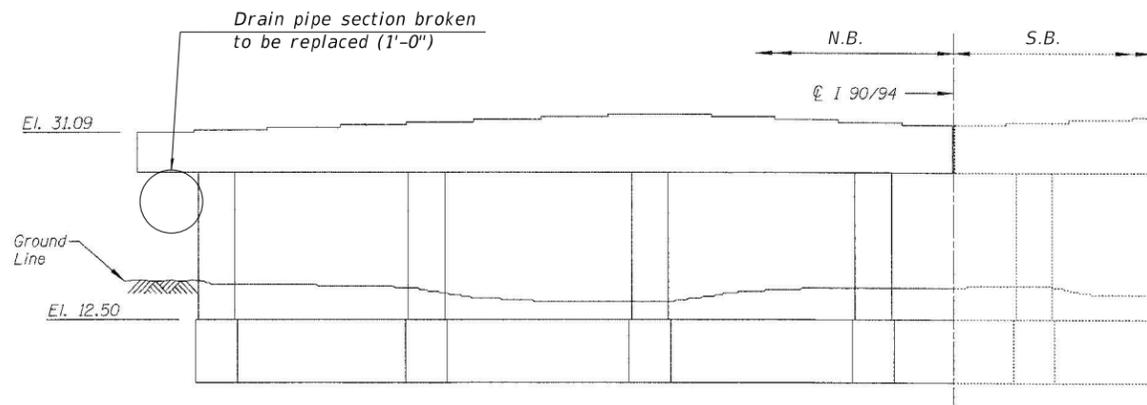


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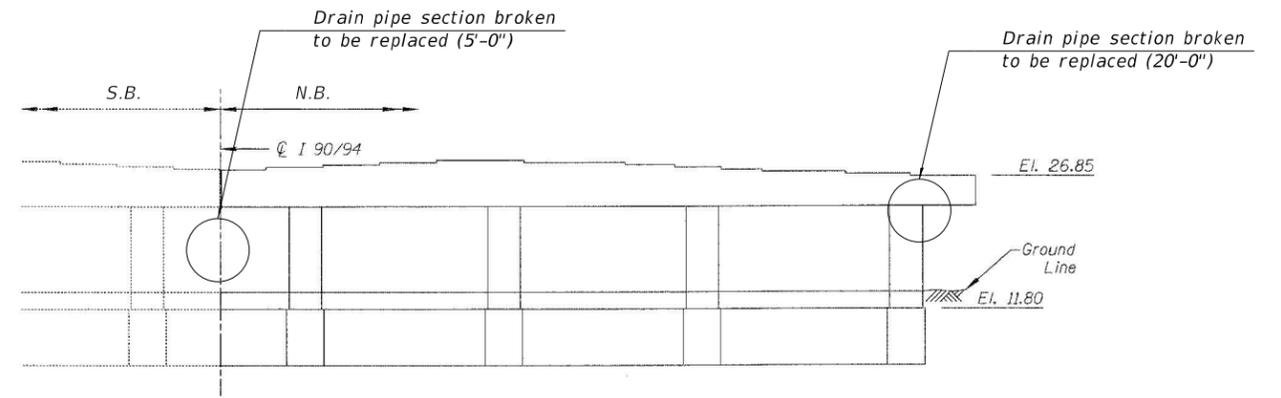
STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

DOWNSPOUT REPAIRS PIER 9, 11, 13 AND 15	
I-90/94 OVER MAXWELL ST TO 15TH ST SN 016-0137	
SCALE:	SHEET S1-5 OF S1-6 SHEETS STA. TO STA.

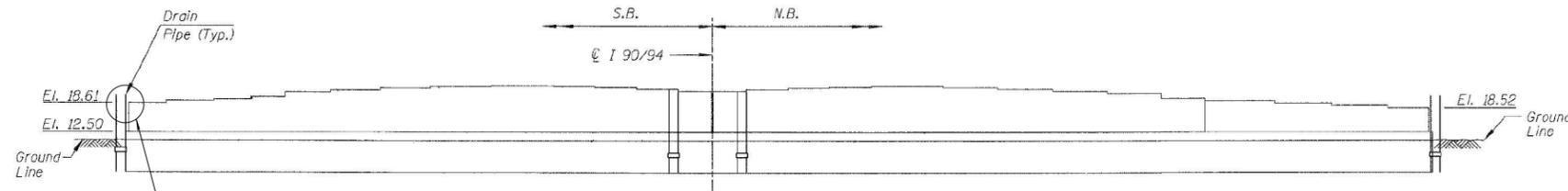
F.A.P. RTE. 94	SECTION 2018-008-BJR	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 28
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



PIER 16 - SOUTH ELEVATION
(LOOKING SOUTH)



PIER 19 - NORTH ELEVATION
(LOOKING NORTH)



PIER 23 - SOUTH ELEVATION
(LOOKING NORTH)

DRAINAGE REPAIR NOTES

- For notes and bill of materials, see sheet S1-5

FILE PATH = F:\1710-746 IDOT District 1\NO 2 Den Rgn Bridge Repairs\Sheet Files\SN 016-0137-0160137-006-Downspout Repairs Pier 16, 19 and 23.dgn



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PLOT DATE = 5/2/2018

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DRAWN - HI	REVISED -
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DATE - 03/19/2018	REVISED -

DESIGNED - DA	REVISED -
DRAWN - HI	REVISED -
CHECKED - RTB	REVISED -
DATE - 03/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

DOWNSPOUT REPAIRS PIER 16, 19 AND 23
I-90/94 OVER MAXWELL ST TO 15TH ST SN 016-0137

SCALE: SHEET S1-6 OF S1-6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	29
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

CONSTRUCTION

1. 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 at the unit price bid for the work.
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4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

SN 016-1046 SCOPE OF WORK

1. Remove and replace existing Strip Seal Glands at Pier 5.
2. Remove and replace broken and/or missing Drain pipes at Pier 62.
3. Clean all deck drainage scuppers (10 Total).

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF DRAWINGS

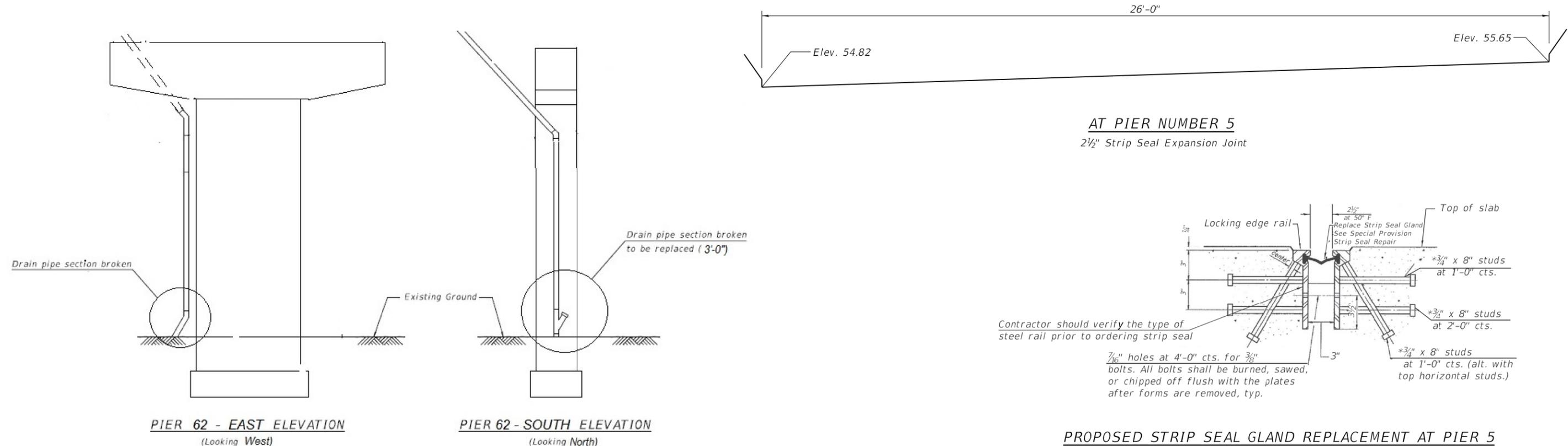
- S2-1 General Plan
 S2-2 General Notes, Index of Sheets and Miscellaneous Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Strip Seal Gland Replacement	Foot	27
Cleaning Bridge scuppers and downspouts	Each	10
Bridge Drainage System Repairs	Foot	3

DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically it shall be the Contractor's responsibility to verify the locations and details prior to ordering the material. Such variations shall not be cause for additional compensation for a change in the scope work, however the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2. 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.
3. When existing drain pipes are wrapped with tape, the tape shall be removed, if the pipe is broken or missing a connection, the pipe shall be replaced or otherwise new tape shall be provided. The type of tape shall be approved by the Engineer. The cost shall be included in "Bridge Drainage System Repairs" and the length measured shall be the length of the pipe replaced or length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For the pier location, see the General Plan sheet.



PROPOSED STRIP SEAL GLAND REPLACEMENT AT PIER 5

FILE PATH = N:\2018\18095\01\CD\Drawings\016-1046\016-1046-002-GenNotesBOM.dgn

V3 Companies 7325 Janes Avenue Woodridge, IL 60517 630.724.9200 phone 630.724.9202 fax www.v3co.com	0161046-002-GenNotesBOM.dgn USER NAME = dpung PLOT SCALE = PLOT DATE = 3/14/2018	DESIGNED - CB DRAWN - DP CHECKED - WV DATE - 03/14/2018	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, INDEX OF SHEETS AND MISCELLANEOUS DETAILS RAMP C I-55 (NEB) TO I-90 /94 (SB) SN 016-1046	F.A.P. RTE. = 94 SECTION = 2018-008-BJR COUNTY = COOK ILLINOIS FED. AID PROJECT	TOTAL SHEETS = 133 SHEET NO. = 31 CONTRACT NO. 62G16
	SCALE: SHEET S2-2 OF S2-2 SHEETS STA. TO STA.						

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	4	COOK	53	3
STA.	TO STA.			
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		
# 1985-077-BR				

BENCH MARK

TBM #49 North NE flange bolt on hydrant on NW corner of 21st St. and Emerald St. Elev. 13.50

Design Stresses

New Construction
 f'c = 3500 PSI
 f'c = 1400 PSI
 f'y = 60,000 PSI (Reinforcement)
 f's = 20,000 PSI
 Working Stress Design Method
 Allowable Bearing Pressure on Rock = 60 Tons/Sq. Ft.

Existing Construction

f'c = 3500
 f'c = 1400 W/o Earth Pressure
 f'c = 1000 PSI W/Earth Pressure
 V = 75 PSI Max. Shear in Footings
 f's = 18,000 PSI
 Bedrock Bearing For Drilled Sub-Piers = 60 Tons/Sq. Ft.

Loading HS20-44 And All.
 Design Specifications: AASHTO (1983) And Applicable Interims (1984 Thru 1987)

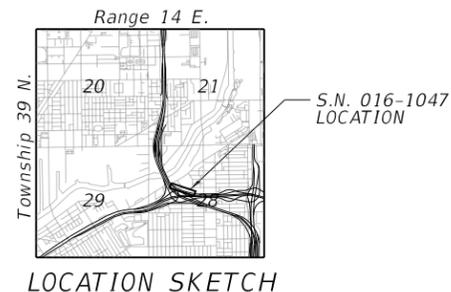
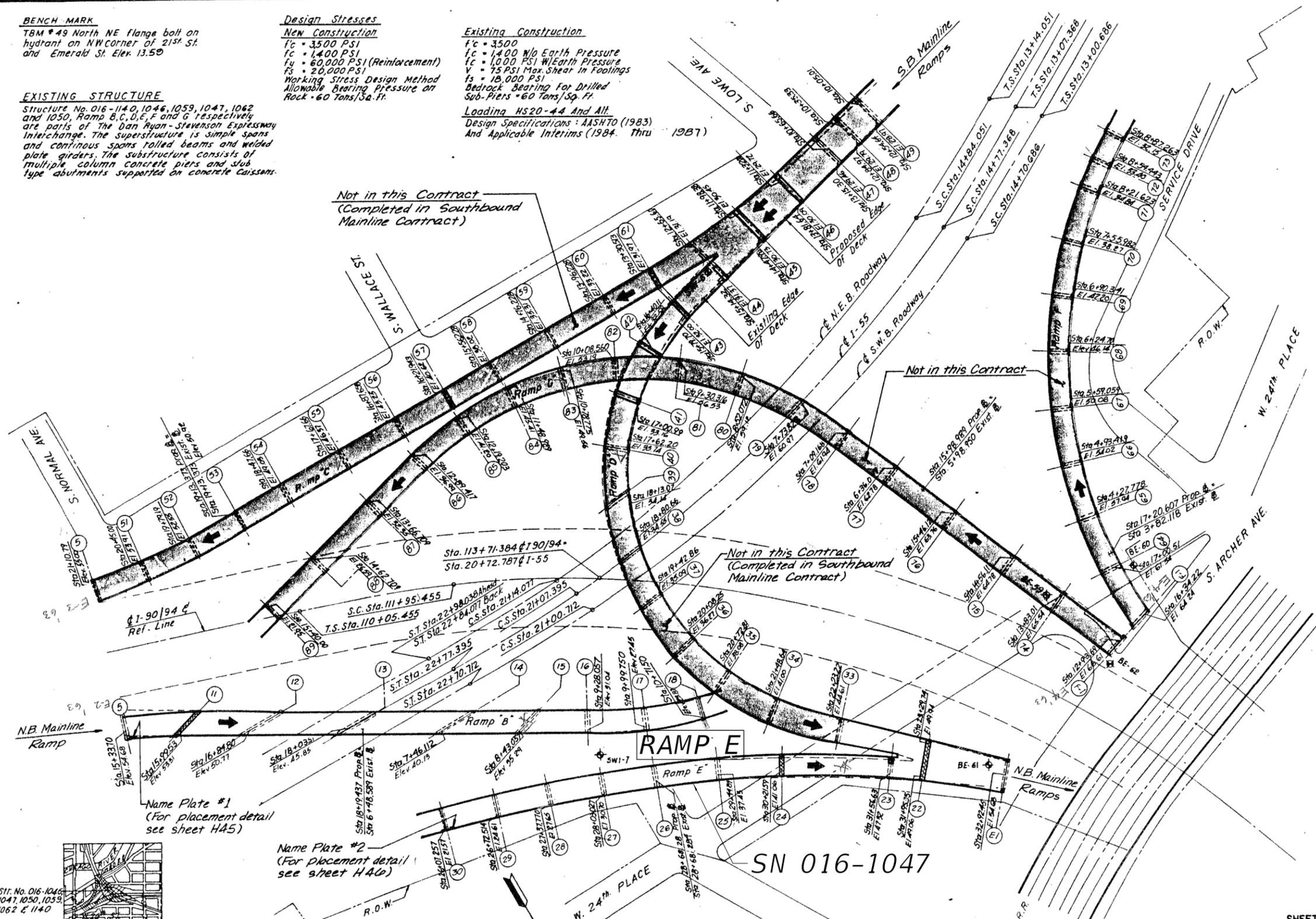
EXISTING STRUCTURE

Structure No. 016-1140, 1046, 1059, 1047, 1062 and 1050, Ramp B, C, D, E, F and G respectively are parts of The Dan Ryan-Stevenson Expressway Interchange. The superstructure is simple spans and continuous spans rolled beams and welded plate girders. The substructure consists of multiple column concrete piers and slab type abutments supported on concrete caissons.

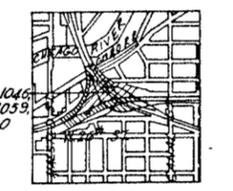
Not in this Contract
 (Completed in Southbound Mainline Contract)

Not in this Contract
 (Completed in Southbound Mainline Contract)

Not in this Contract
 (Completed in Southbound Mainline Contract)



MOHAMMED SALEEM
 081.006145
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS
 DATE LICENSE EXPIRES ON 11/30/2018



- LEGEND**
- ◆ Indicates Existing Soil Borings
 - ▭ New Pier Widening Completed in Previous Contracts
 - Indicates Pier Number
 - ▨ Pier Replacement or Widening

PLAN

SN 016-1047

FOR INFORMATION ONLY

SHEET H3 OF H53

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1985-077-BR + COOK COUNTY
 N.B. MAINLINE RECONSTRUCTION
 STRUCTURE 016-1047 B 1140 (RAMP E & RAMP F)
 GENERAL PLAN

Scale: NONE
 Date: AUG. 1988
 Drawn By: M.H.
 Checked By: M.E.M.
ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

MODEL: Default
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AES
 ENGINEERS & SURVEYORS

111 S. Wacker Drive,
 Suite 3910
 Chicago, IL 60606
 Ph: 312-235-6783

USER NAME =	DESIGNED - AM, AWM	REVISED -
PLOT SCALE =	CHECKED - MS	REVISED -
PLOT DATE =	DRAWN - AM, AWM	REVISED -
	CHECKED - MS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 016-1047 (RAMP E)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	32
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

CONSTRUCTION

1. 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 at the unit price bid for the work.
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3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are of bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

SN 016-1047 SCOPE OF WORK

1. Remove and replace broken and/or missing Drain pipes at P24 and P27 East Side.
2. Clean all deck drainage scuppers along NB at Piers 24, 27 and 30.

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF SHEETS

- S3-1 General Plan
- S3-2 General Notes, Index of Sheets and Miscellaneous Details
- S3-3 Bridge Repair Plan
- S3-4 Bridge Repair Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cleaning Bridge Scuppers and Downspouts	Each	3
Bridge Drainage System Repair	Foot	10

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111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

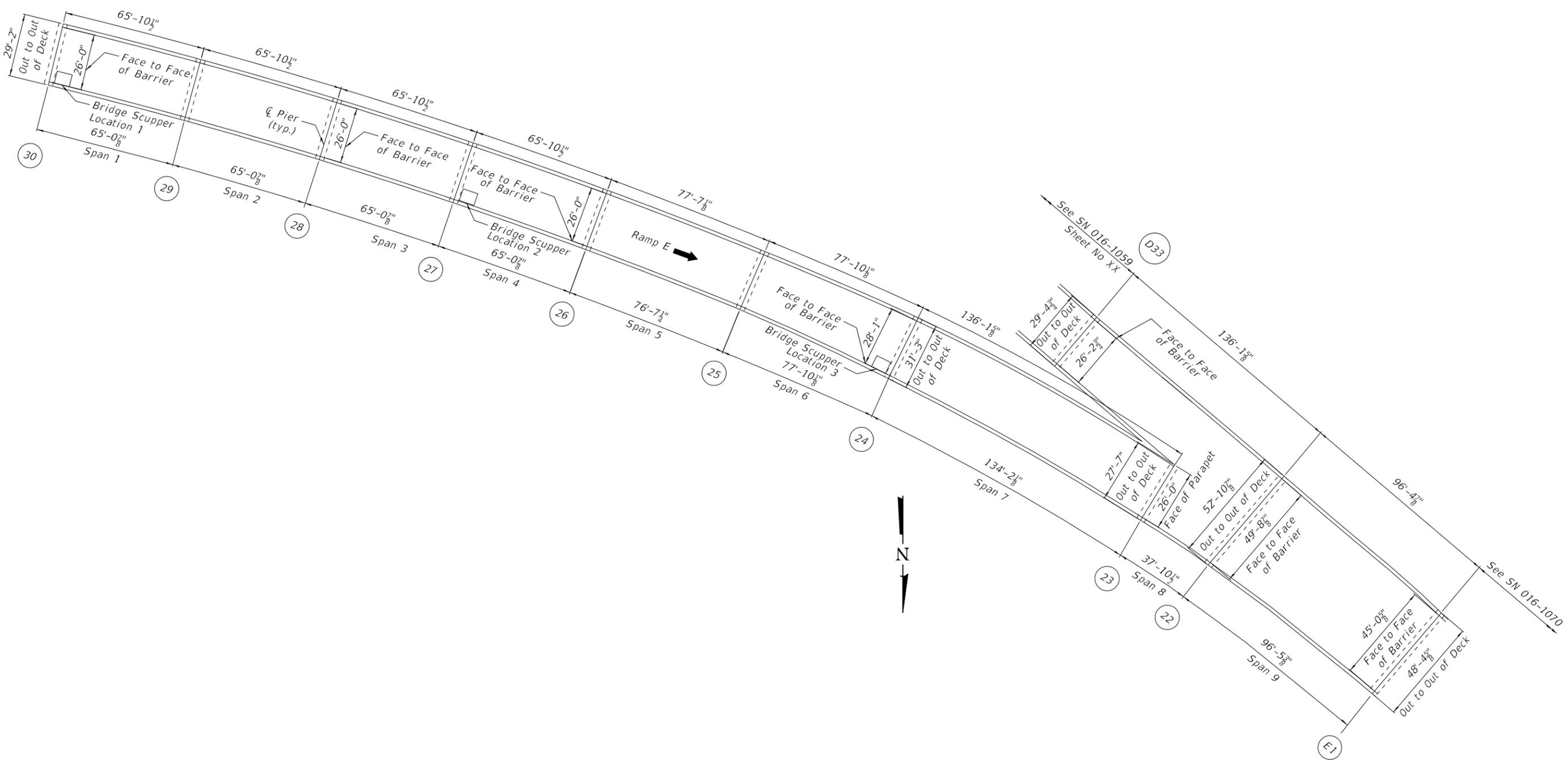
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS & BILL OF MATERIALS
STRUCTURE NO. 016-1047 (RAMP E)**

SHEET S3-2 OF S3-4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	33
CONTRACT NO. 62G16				
		ILLINOIS	FED. AID PROJECT	



LEGEND

- Bridge Scuppers,
- Cleaning Bridge Scuppers and Downspouts, Typ.

SN 016-1047 PARTIAL DECK PLAN

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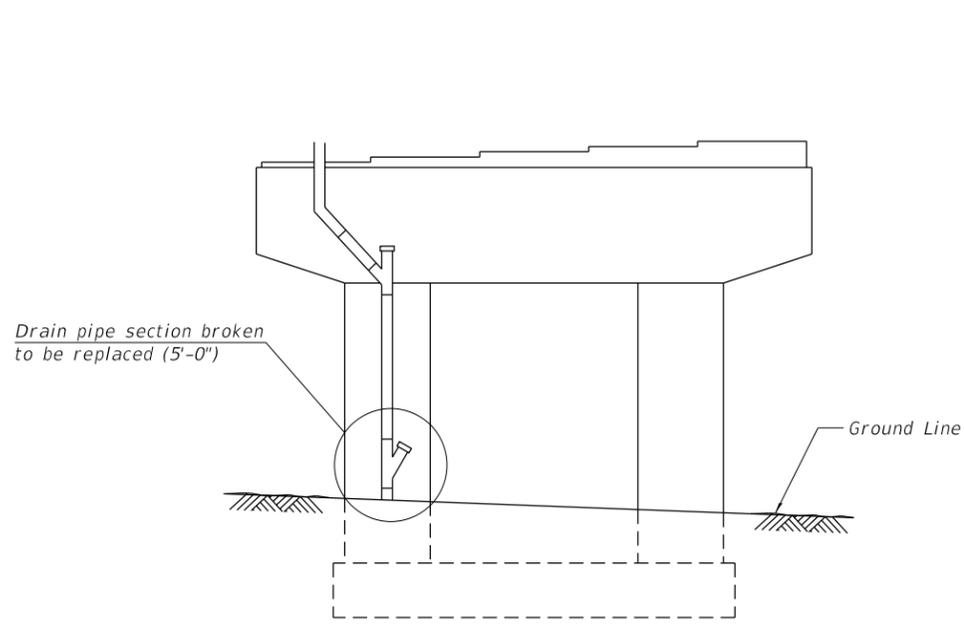
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

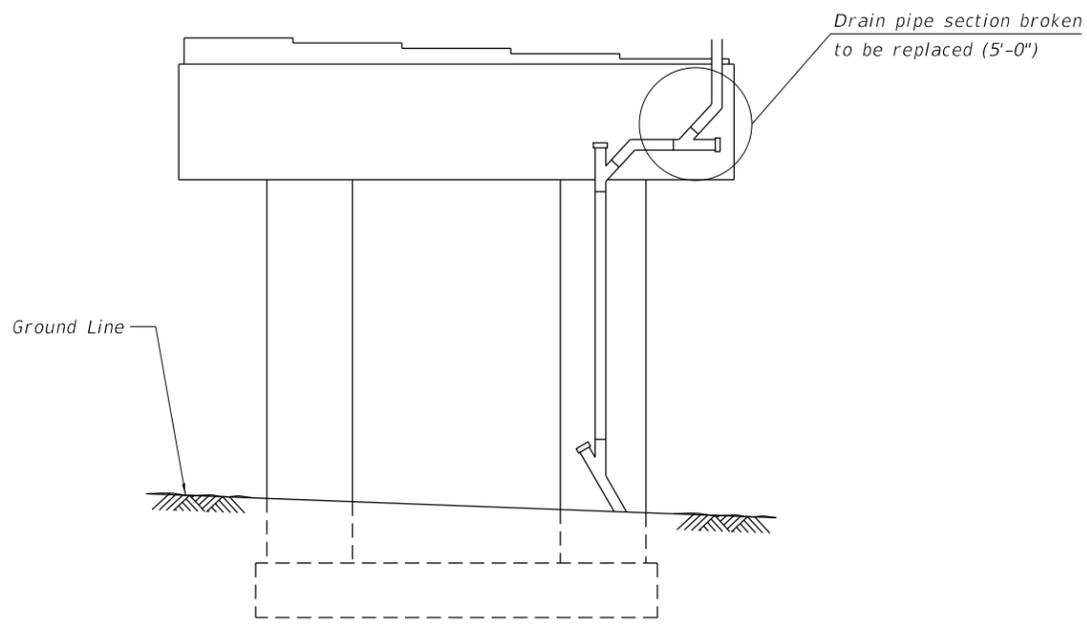
BRIDGE REPAIR PLAN
STRUCTURE NO. 016-1047 (RAMP E)

SHEET S3-3 OF S3-4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	34
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



PIER 27 - WEST ELEVATION
(Looking East)



PIER 24 - EAST ELEVATION
(Looking West)

NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractors responsibility to verify the locations 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.
2. The Contractor shall provide all piping, brackets, hangers, fittings and other accessories required to return the existing drainage system to a fully functional leak free system. See Special Provisions.
3. 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 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 legth of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see Bridge Repair Plan Sheet.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repair	Foot	10

MODEL: Default
FILE NAME: P:\60618003.02-PTB.185-012-WO#02_HBM_Dan Ryan Bridge Repairs\01\CADD\Sheet\Dan Ryan_016-1047_S4-Bridge Repair_Details.dgn
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PLOT SCALE =	DRAWN - AM, AWM	REVISED -
PLOT DATE =	CHECKED - MS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE REPAIR DETAILS
STRUCTURE NO. 016-1047 (RAMP E)**

SHEET S3-4 OF S3-4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	35
CONTRACT NO. 62G16				
		ILLINOIS	FED. AID PROJECT	

Design Stresses

Construction

$f_c = 3500$ psi
 $f_c = 1400$ psi
 $f_y = 60,000$ PSI (Reinforcement)
 $f_s = 20,000$ PSI (Str. steel #183)
 Working Stress Design Method
 Allowable Bearing Pressure on Rock = 60 Tons/Sq. Ft.

Existing Construction

$f_c = 5500$ PSI
 $f_c = 1,400$ PSI w/o Earth Pressure
 $f_c = 1,000$ PSI w/ Earth Pressure
 $V = 75$ PSI Max. Shear in Footings
 $f_s = 18,000$ PSI (Str. steel)
 Bed rock Bearing for drilled Sub. Piers = 60 Tons/Sq. Ft.

Loading H.S. 20-44 and Alt.

Design Specifications: AASHTO (1983) and applicable interims (1984, 1985, 1986, 1987, 1988)

Legend

- ⊕ - Indicates existing soil borings
- - Proposed pier widening
- - Indicates pier number
- - Built in S.B. or Advance Work Contract

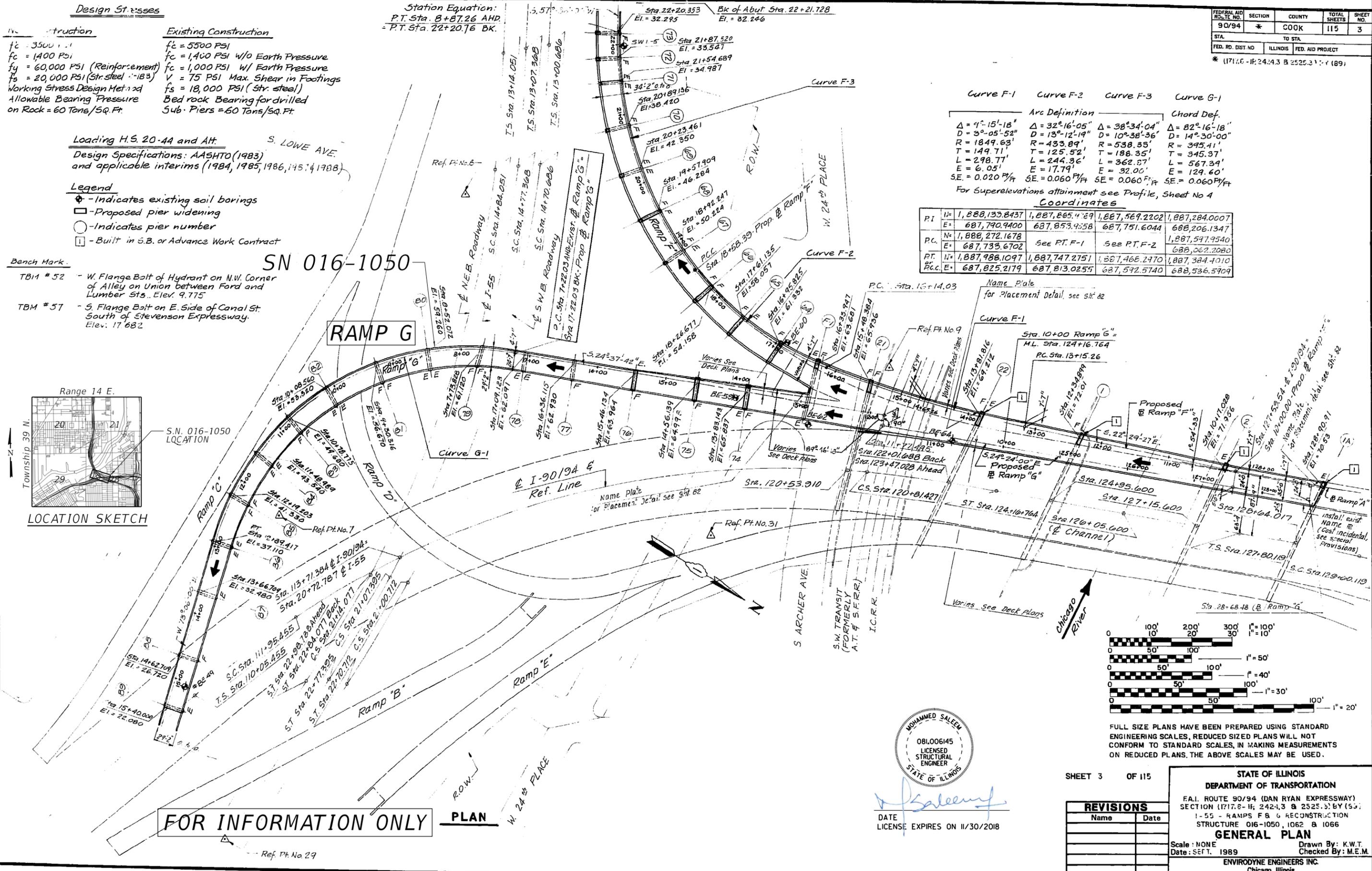
Bench Mark

- TBM # 52 - W. Flange Bolt of Hydrant on N.W. Corner of Alley on Union between Ford and Lumber Sts., Elev. 9.775
- TBM # 57 - S. Flange Bolt on E. Side of Canal St. South of Stevenson Expressway. Elev. 17.682

SN 016-1050



Station Equation:
 P.T. Sta. 8+87.26 AHD
 = P.T. Sta. 22+20.76 BK.



Curve F-1	Curve F-2	Curve F-3	Curve G-1
$\Delta = 9^{\circ}15'18''$	$\Delta = 32^{\circ}16'05''$	$\Delta = 38^{\circ}34'04''$	$\Delta = 82^{\circ}16'18''$
$D = 3^{\circ}05'52''$	$D = 13^{\circ}12'19''$	$D = 10^{\circ}38'36''$	$D = 14^{\circ}30'00''$
$R = 1849.63'$	$R = 433.89'$	$R = 538.35'$	$R = 395.41'$
$T = 149.71'$	$T = 125.52'$	$T = 188.35'$	$T = 345.37'$
$L = 298.77'$	$L = 244.36'$	$L = 362.37'$	$L = 567.39'$
$E = 6.05'$	$E = 17.79'$	$E = 32.00'$	$E = 129.60'$
$SE = 0.020$ P/F	$SE = 0.060$ P/F	$SE = 0.060$ P/F	$SE = 0.060$ P/F

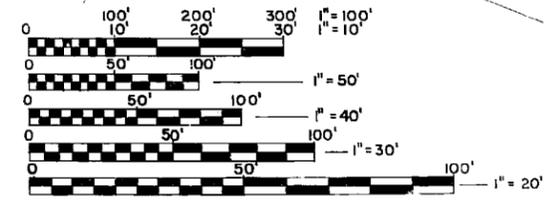
For Superelevations attainment see Profile, Sheet No 4

Coordinates

PI	E	N	E
1	1,888,135.8437	1,887,865.4189	1,887,569.2202
2	687,790.9400	687,853.9358	687,751.6044
3	1,888,272.1678	See P.T. F-1	See P.T. F-2
4	687,733.6702	See P.T. F-1	See P.T. F-2
5	1,887,988.1097	1,887,747.2751	1,887,466.2470
6	687,825.2179	687,813.0255	687,592.5740
7	1,887,284.0007	1,887,547.9540	1,887,324.4010
8	688,206.1347	688,062.2080	688,536.5790



DATE LICENSE EXPIRES ON 11/30/2018



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

SHEET 3 OF 115

REVISIONS

Name	Date

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
 SECTION 1717.6-1F, 242.4.3 & 252.3 BY 153;
 1-55 - RAMPS F & G RECONSTRUCTION
 STRUCTURE 016-1050, 1062 & 1066
GENERAL PLAN
 Scale: NONE
 Date: SEP. 1989
 Drawn By: K.W.T.
 Checked By: M.E.M.
 ENVIRODYNE ENGINEERS INC.
 Chicago, Illinois

FOR INFORMATION ONLY

PLAN

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
 STRUCTURE NO. 016-1050 (RAMP G)

SHEET S4-1 OF S4-4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	36

CONTRACT NO. 62G16
 ILLINOIS FED. AID PROJECT

MODEL: Default
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GENERAL NOTES

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are of bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

SN 016-1050 SCOPE OF WORK

1. Remove and replace existing 2 1/2' PJS expansion joint with new Preformed Joint Seal per the Performed Bridge Joint Seal Special Provision (PBJs) at SB Abut. 89.
2. Remove and replace broken and/or missing Drain pipes at P79 East Side.
3. Clean all deck drainage scuppers along SB Piers 75, 79, 85 and 87.

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF SHEETS

- S4-1 General Plan
- S4-2 General Notes, Index of Sheets and Miscellaneous Details
- S4-3 Bridge Repair Plan
- S4-4 Bridge Repair Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cleaning Bridge Scuppers and Downspouts	Each	4
Preformed Joint Seal, 2 inch	Foot	29.5
Bridge Drainage System Repair	Foot	10

MODEL: Default
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111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

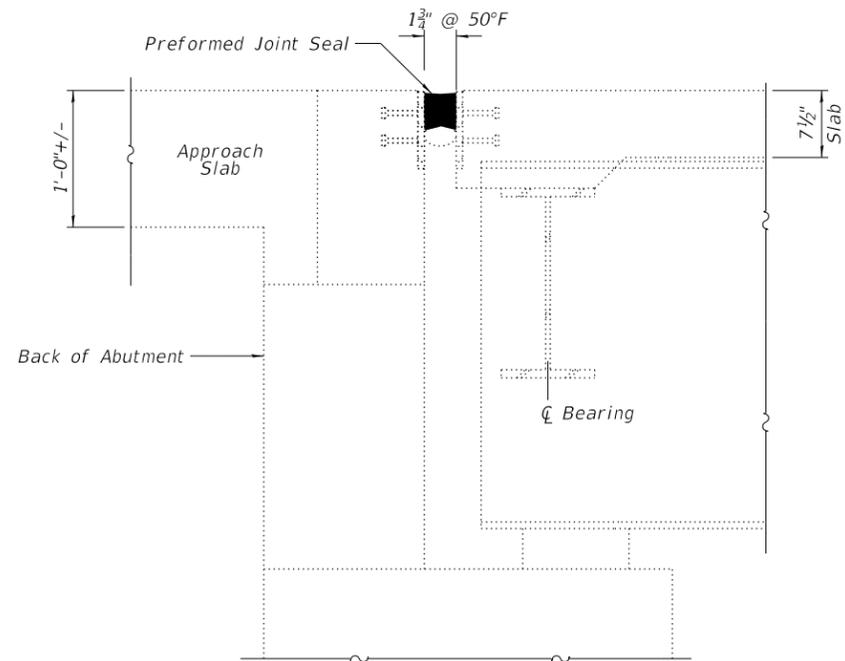
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PLOT SCALE =	DRAWN - AM, AWM	REVISED -
PLOT DATE =	CHECKED - MS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS & BILL OF MATERIALS
STRUCTURE NO. 016-1050 (RAMP G)**

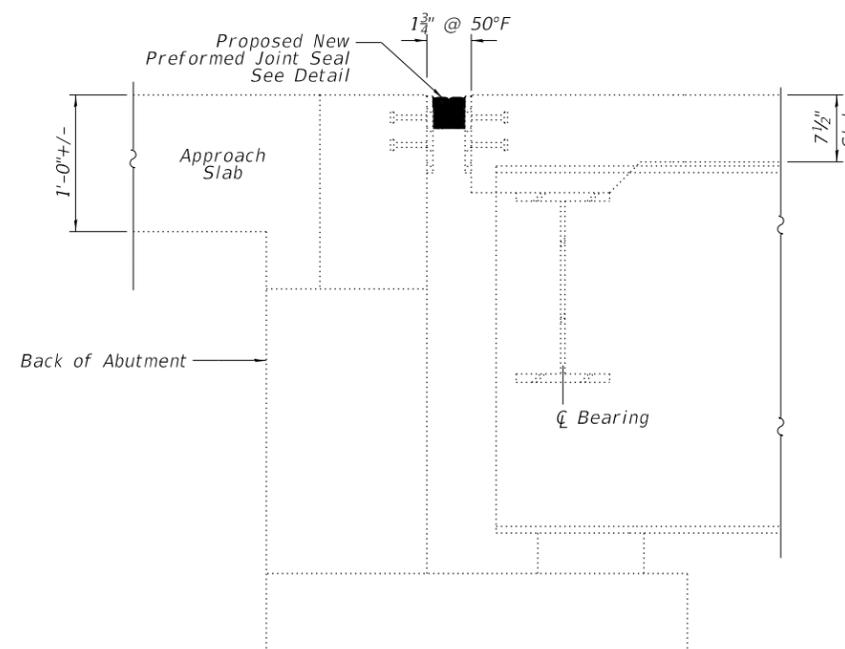
SHEET S4-2 OF S4-4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	37
CONTRACT NO. 62G16				
		ILLINOIS	FED. AID PROJECT	



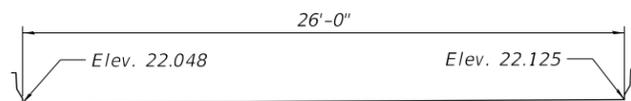
SECTION A-A

Existing 2 1/2" Preformed Joint Seal
At South Abutment 89



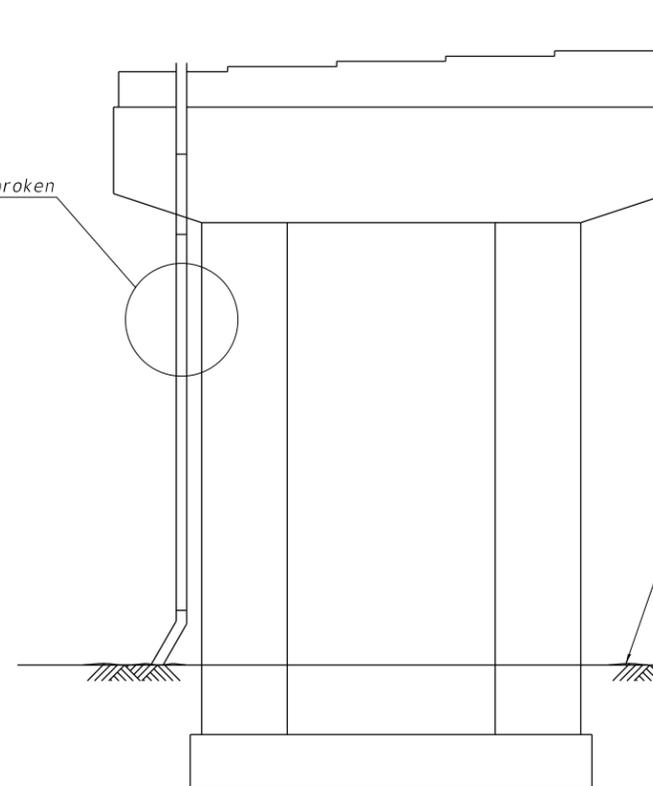
SECTION B-B

Proposed New PBJs Seal
At South Abutment 89



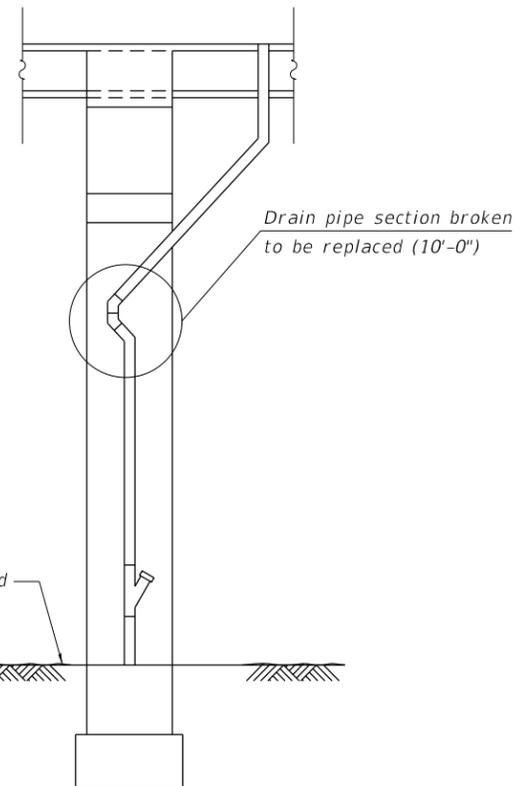
At Abutment 89
2" Preformed Joint Seal

Drain pipe section broken
See East Elevation



PIER 79 - NORTH ELEVATION

(Looking South)

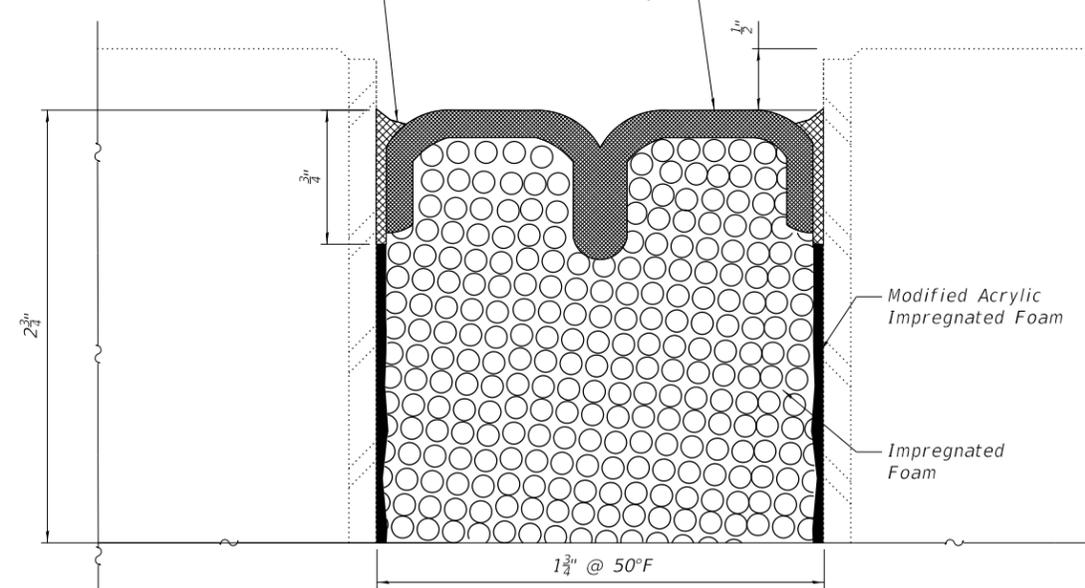


PIER 79 - EAST ELEVATION

(Looking West)

Field Applied Min. 3/4" Deep
Injected Sealant and Corner bead.

Factory-Applied and
Cured Traffic Grade
Silicone Facing.



PROPOSED PBJs JOINT SEAL

At South Abutment

Note: The new joint shall be a "Preformed, Pre-compressed, Silicone Coated, Self-Expanding Sealant System" and paid for as Performed Joint Seal. See special provision "Preformed Bridge Joint Seal" (PBJs).

NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
2. The Contractor shall provide all piping, brackets, hangers, fittings and other accessories required to return the existing drainage system to a fully functional leak free system. See Special Provisions.
3. 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 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 length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see Bridge Repair Plan Sheet.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repair	Foot	10

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PLOT DATE =	CHECKED - MS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE REPAIR DETAILS
STRUCTURE NO. 016-1050 (RAMP G)**

SHEET S4-4 OF S4-4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	39
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

BENCH MARK

TBM #49 North NE flange bolt on hydrant on NW corner of 21st St. and Emerald St. Elev. 13.68

Design Stresses

New Construction
 f'c = 3500 PSI
 f'c = 1400 PSI
 fy = 60,000 PSI (Reinforcement)
 fs = 20,000 PSI
 Working Stress Design Method
 Allowable Bearing Pressure on Rock = 60 Tons/Sq. Ft.

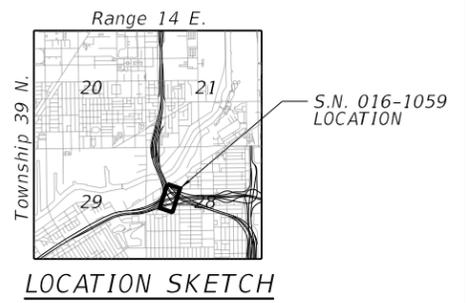
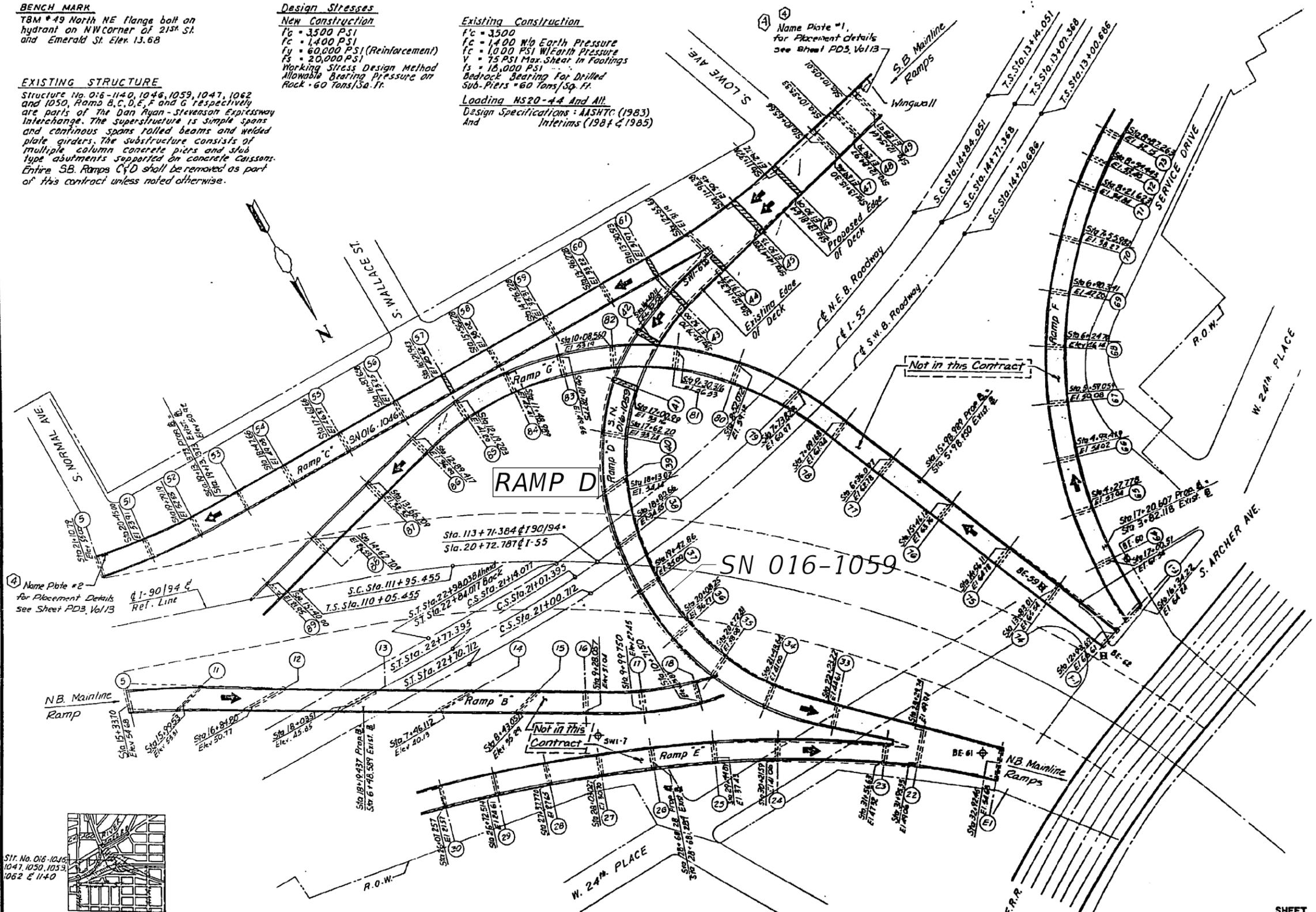
Existing Construction
 f'c = 3500
 f'c = 1400 W/o Earth Pressure
 f'c = 1000 PSI W/Earth Pressure
 V = 75 PSI Max. Shear in Footings
 fs = 18,000 PSI
 Bedrock Bearing for Drilled Sub-Piers = 60 Tons/Sq. Ft.

Loading HS20-44 And All
 Design Specifications: AASHTO (1983) And Interims (1984 & 1985)

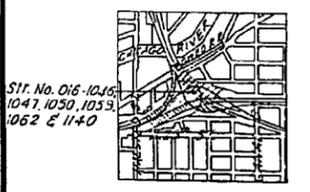
EXISTING STRUCTURE

Structure No. 016-1046, 1047, 1062 and 1050, Ramps B, C, D, E, F and G respectively are parts of The Dan Ryan - Stevenson Expressway Interchange. The superstructure is simple spans and continuous spans rolled beams and welded plate girders. The substructure consists of multiple column concrete piers and slab type abutments supported on concrete caissons. Entire S.B. Ramps C & D shall be removed as part of this contract unless noted otherwise.

PROGRAM AND PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	#	COOK	69	3
TO STA.				
FROM STA.				
FED. AID PROJECT				
# 1985-082 R				



DATE LICENSE EXPIRES ON 11/30/2018



- LEGEND**
- ◆ Indicates Existing Soil Borings
 - New Pier Widening completed in Advance Work Contract
 - Indicates Pier Number
 - ▨ Pier Replacement or Widening

PLAN

FOR INFORMATION ONLY

SHEET 13 OF 169

REVISIONS	
Name	Date
(1) Revision	2-5-88
(2) Revision	4-22-88

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY,
 SECTION 1985-082-P - COOK COUNTY
 S.B. MAINLINE RECONSTRUCTION
 STRUCTURE 1046 & 1059 (RAMP C & RAMP D)
 GENERAL PLAN
 Scale: NONE
 Date: AUG. 14, 1987
 Drawn By: M.M.S.
 Checked By: R.E.J.
 ENVIRONMENTAL ENGINEERS INC.
 Chicago, Illinois

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AES
 ENGINEERS & SURVEYORS
 111 S. Wacker Drive,
 Suite 3910
 Chicago, IL 60606
 Ph: 312-235-6783

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PLOT SCALE =	CHECKED - MS	REVISED -
PLOT DATE =	DRAWN - AM, AWM	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
 STRUCTURE NO. 016-1059 (RAMP D)
 SHEET S5-1 OF S5-4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	40
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are of bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

SN 016-1059 SCOPE OF WORK

1. Remove and replace existing Strip seal Gland, (see Special Provision for Strip Seal Repair) at NB Abut. 43.
2. Remove and replace broken and/or missing Drain pipe at P33 South Elevation.
3. Clean all deck drainage scuppers at abutment 43, Pier 34, 38, 40, 41 and 42.

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF SHEETS

- S5-1 General Plan
- S5-2 General Notes, Index of Sheets and Miscellaneous Details
- S5-3 Bridge Repair Plan
- S5-4 Bridge Repair Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repair	Foot	2
Cleaning Bridge Scuppers and Downspouts	Each	6
Strip Seal Gland Replacement	Foot	33.5

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111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

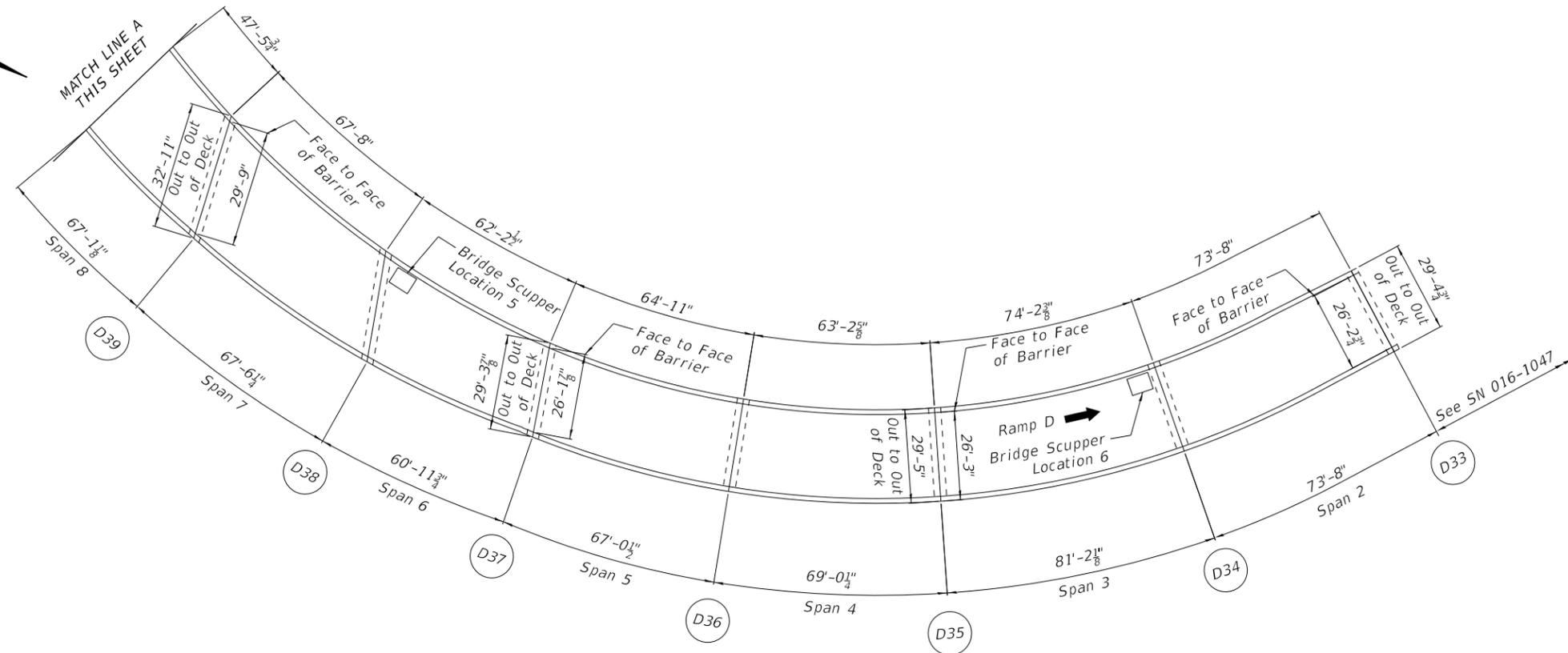
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

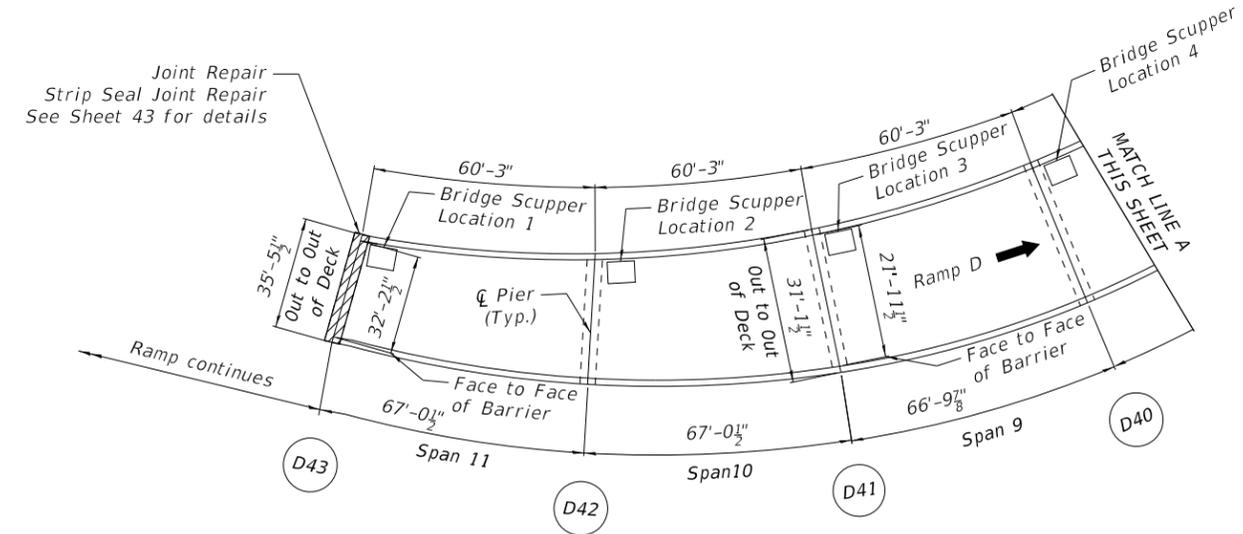
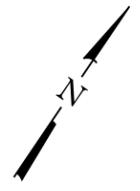
**GENERAL NOTES, INDEX OF SHEETS & BILL OF MATERIALS
STRUCTURE NO. 016-1059 (RAMP D)**

SHEET S5-2 OF S5-4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	41
CONTRACT NO. 62G16				
ILLINOIS			FED. AID PROJECT	



SN016-1059 PARTIAL DECK PLAN



SN016-1059 PARTIAL DECK PLAN

LEGEND

- Bridge Scuppers, Cleaning Bridge Scuppers and Downspouts, Typ.
- Joint Repair

MODEL: Default
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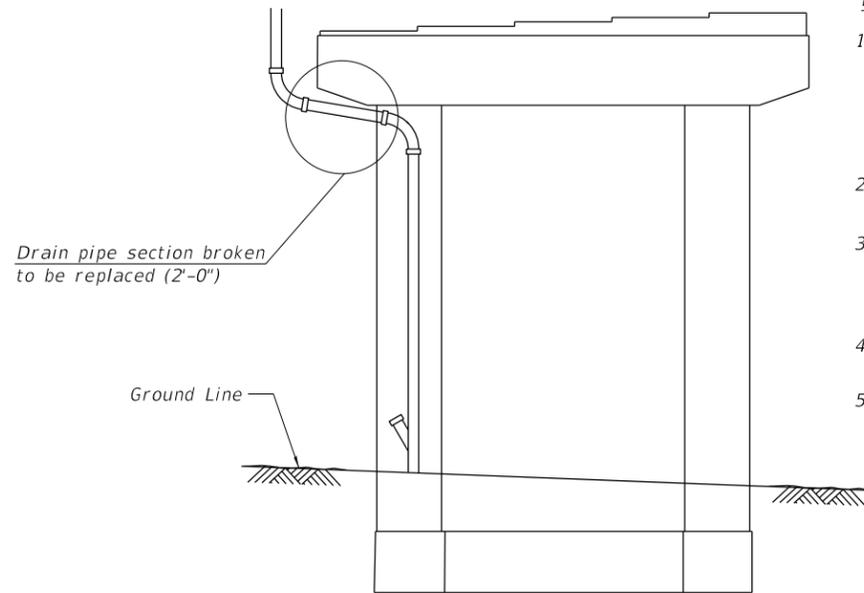
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE REPAIR PLAN
STRUCTURE NO. 016-1059 (RAMP D)**

SHEET S5-3 OF S5-4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	42
CONTRACT NO. 62G16				
		ILLINOIS FED. AID PROJECT		



PIER 33 - SOUTH ELEVATION
(Looking North)

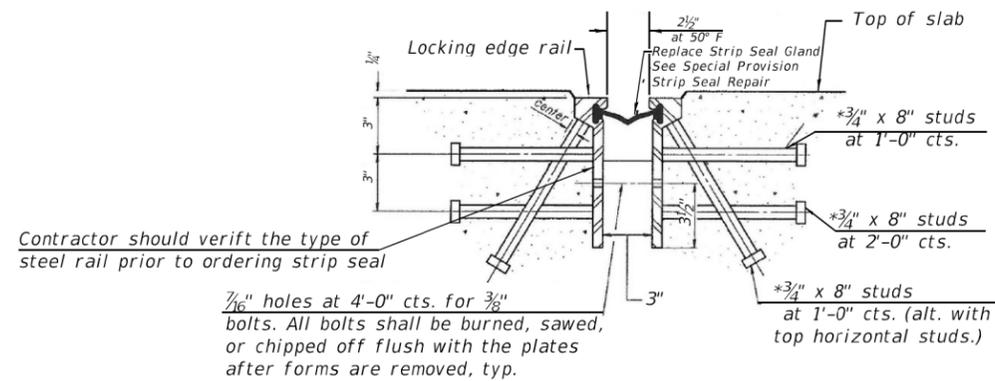
NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractors responsibility to verify the locations 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.
2. The Contractor shall provide all piping, brackets, hangers, fittings and other accessories required to return the existing drainage system to a fully functional leak free system. See Special Provisions.
3. 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 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 length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see Bridge Repair Plan Sheet.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repair	Foot	2

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PROPOSED STRIP SEAL GLAND TO BE REPLACED
At North Abutment 43

AES
ENGINEERS & SURVEYORS
111 S. Wacker Drive,
Suite 3910
Chicago, IL 60606
Ph: 312-235-6783

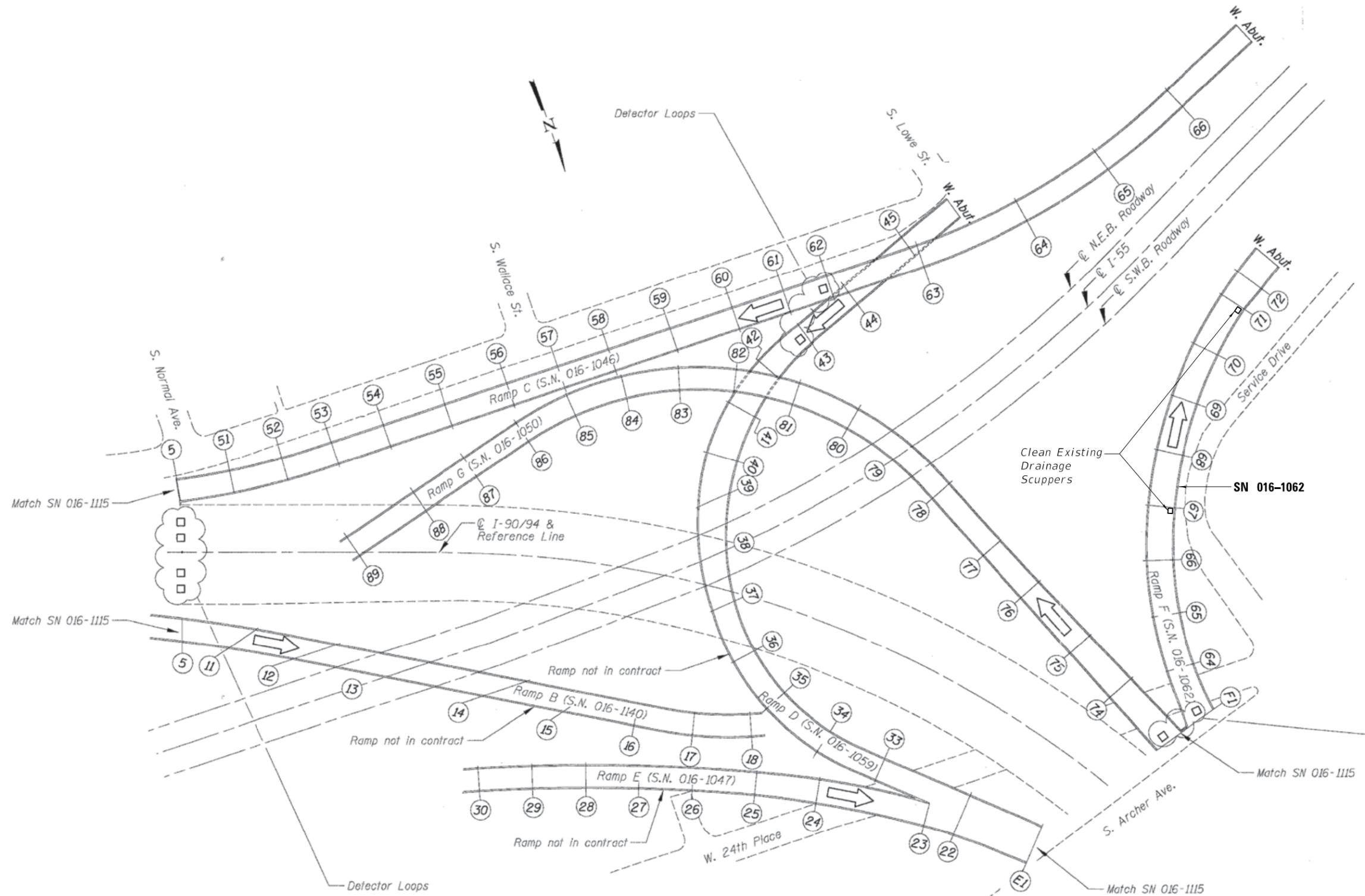
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PLOT DATE =	CHECKED - MS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

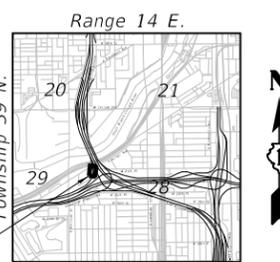
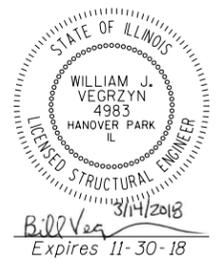
BRIDGE REPAIR DETAILS
STRUCTURE NO. 016-1059 (RAMP D)

SHEET S5-4 OF S5-4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	43
CONTRACT NO. 62G16				
		ILLINOIS	FED. AID PROJECT	



PLAN



S.N. 016-1062 LOCATION

LOCATION SKETCH

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V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

0161062-001-GPE.dgn	DESIGNED - CB	REVISED -
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PLOT SCALE =	CHECKED - WV	REVISED -
PLOT DATE = 3/14/2018	DATE - 03/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
RAMP F I-90 /94 (SB) TO I-55 (SWB) SN 016-1062

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	44
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET S6-1 OF S6-2 SHEETS STA. TO STA.

GENERAL NOTES:

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

SN 016-1062 SCOPE OF WORK

1. Clean all deck drainage scuppers (2 Total).

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF DRAWINGS

- S6-1 General Plan
- S6-2 General Notes and Index of Sheets

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cleaning Bridge scuppers and downspouts	Each	2

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V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

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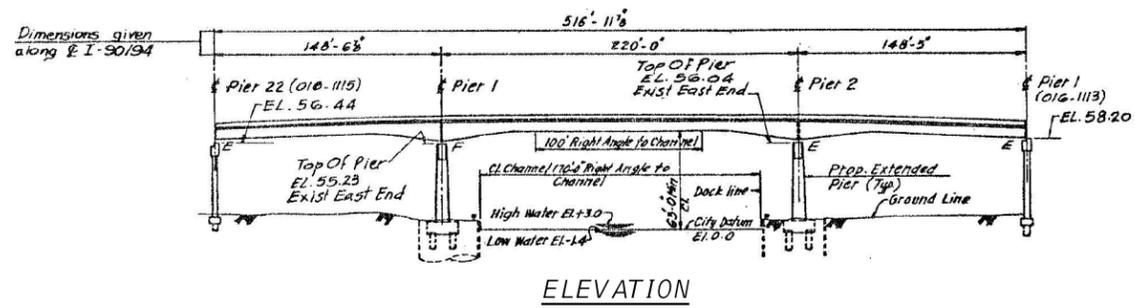
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DATE - 03/14/2018	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

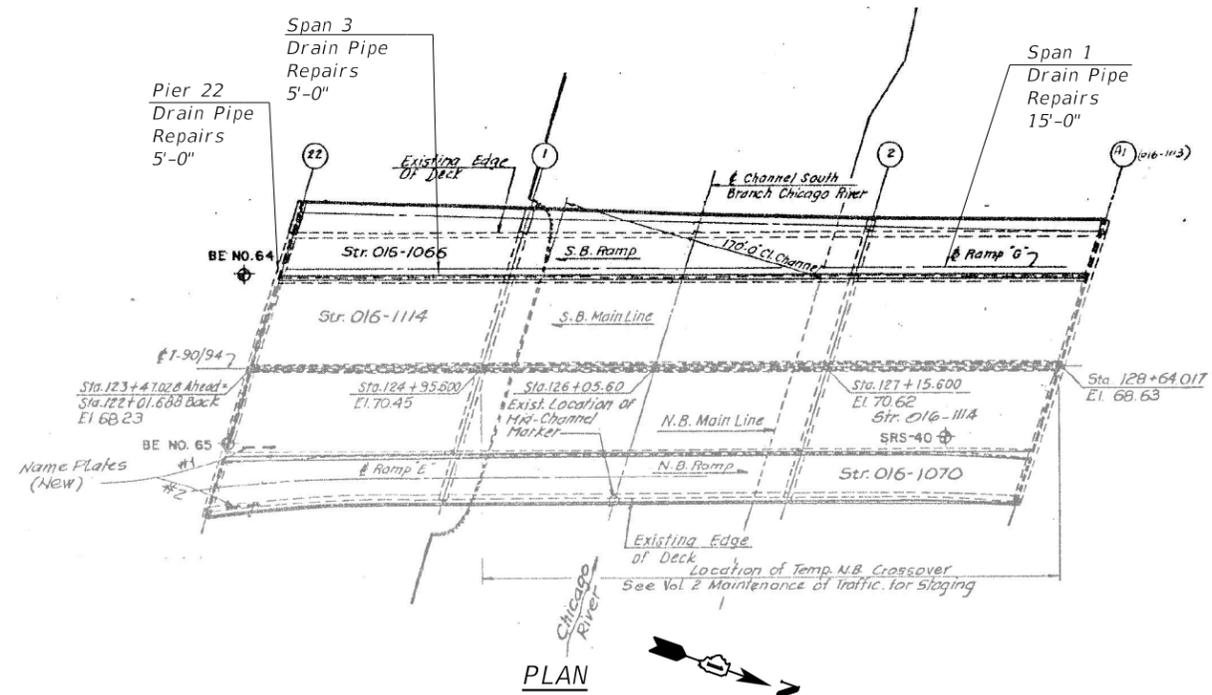
**GENERAL NOTES AND INDEX OF SHEETS
RAMP F I-90 /94 (SB) TO I-55 (SWB) SN 016-1062**

SCALE: SHEET S6-2 OF S6-2 SHEETS STA. TO STA.

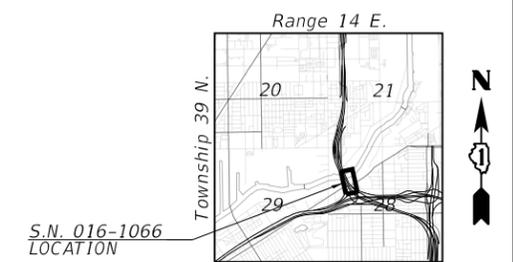
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94	2018-008-BJR	COOK	133	45
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



ELEVATION



PLAN



FILE PATH = F:\1710-746 IDOT District 1\NO 2 Den Rgn Br-ldge Repairs\Sheet Files\SN 016-1066\0161066-001-GPE.dgn



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PLOT DATE = 5/2/2018	DATE - 03/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/94 (SB) RAMP TO I-55 (WB) OVER CHICAGO RIVER SN 016-1066

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	46
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET S7-1 OF S7-3 SHEETS STA. TO STA.

GENERAL NOTES:

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

SN 016-1066 SCOPE OF WORK

1. Remove and replace broken and/or missing Drain pipes at SP3 East Side Longitudinal Run, P22 East Side and SP1 East Side Longitudinal Run.
2. Clean 12 Bridge Scuppers.

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF DRAWINGS

- S7-1 General Plan and Elevation
- S7-2 General Notes, Index of Sheets and Total Bill Of Material
- S7-3 Downspout Repairs Pier 1, 2, and 22

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cleaning Bridge scuppers and downspouts	Each	12
Bridge Drainage System Repairs	FOOT	25

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PLOT DATE = 5/2/2018

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DRAWN - MS	REVISED -
CHECKED - RTB	REVISED -
DATE - 03/19/2018	REVISED -

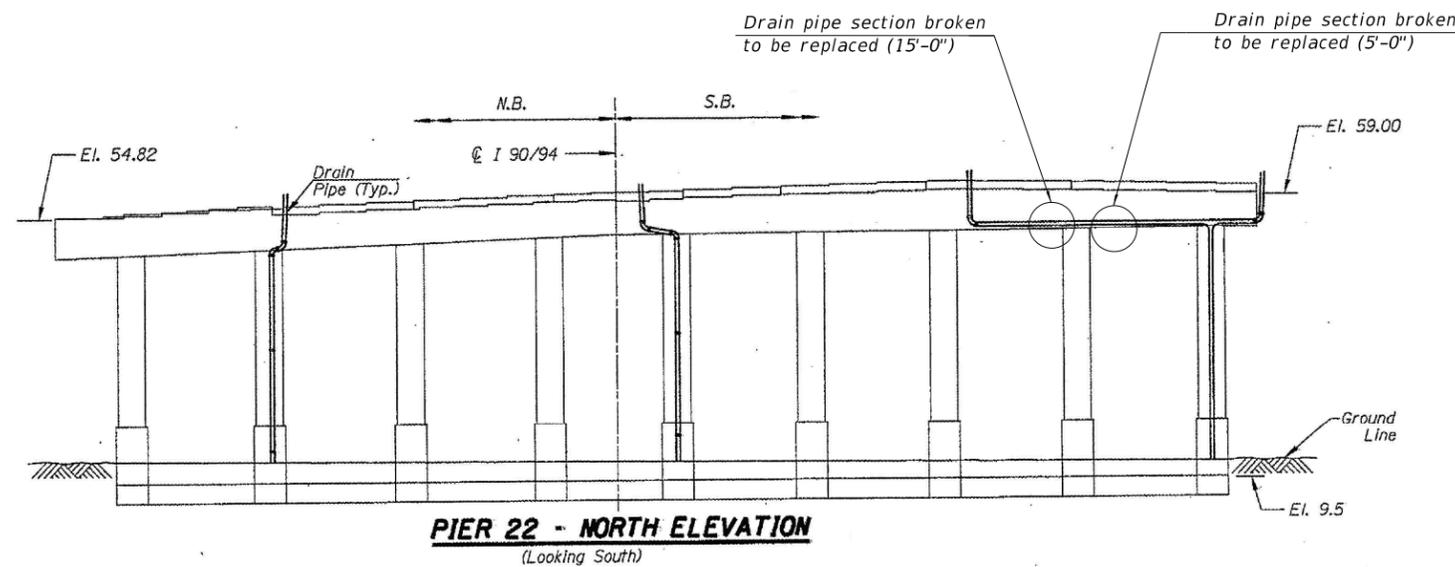
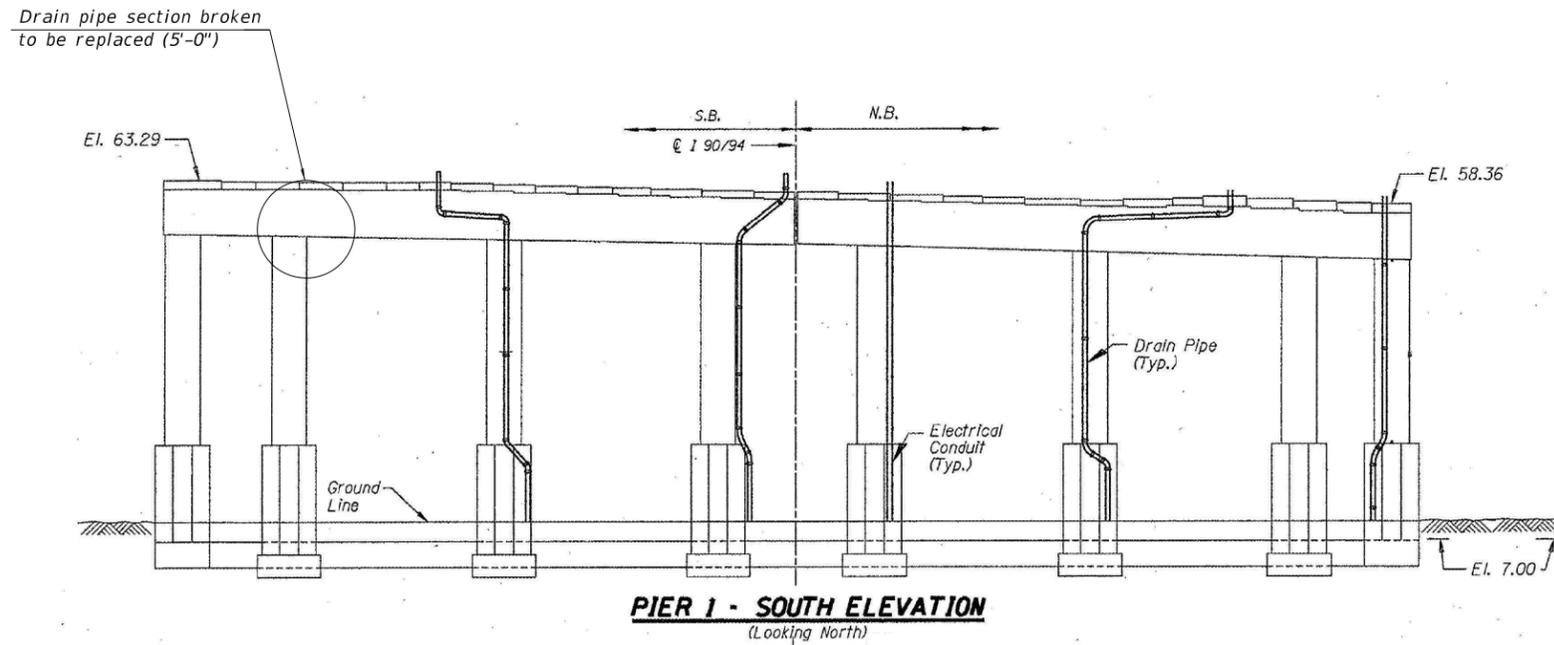
STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIAL	
I-90/94 (SB) RAMP TO I-55 (WB) OVER CHICAGO RIVER SN 016-1066	
SCALE:	SHEET S7-2 OF S7-3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	47
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	FOOT	25



DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
2. 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.
3. When existing drain pipes are wrapped with tape, the tape shall be removed, if the pipe is broken or missing a connection, the pipe shall be replaced or otherwise new tape shall be provided. The type of tape shall be approved by the Engineer. The cost shall be included in "Bridge Drainage System Repairs" and the length measured shall be the length of the pipe replaced or length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see General Plan and Elevation Sheet.

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0161066-003-Downspout Repairs Pier 1 & 22.dgn
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 PLOT SCALE =
 PLOT DATE = 5/2/2018

DESIGNED - DA
 DRAWN - HI
 CHECKED - RTB
 DATE - 03/19/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

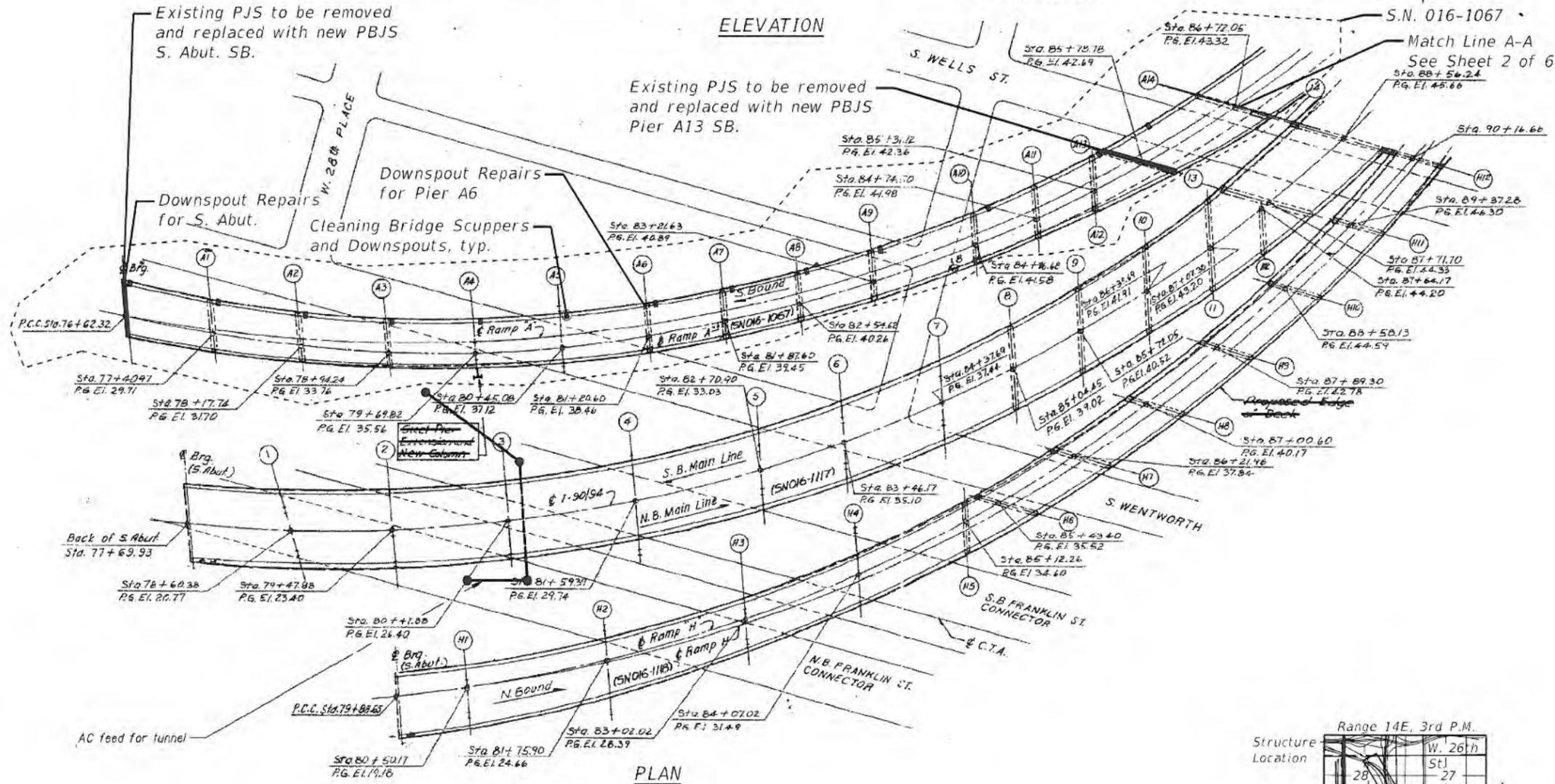
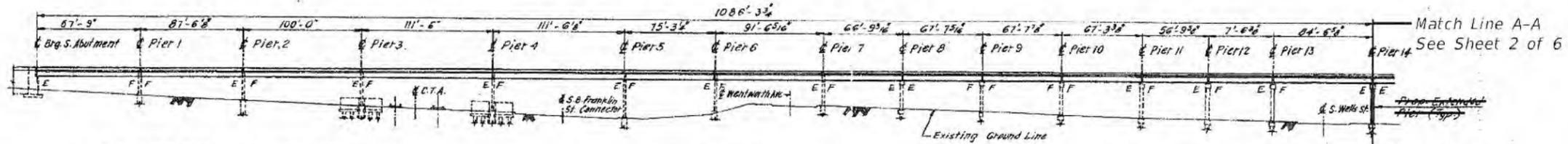
DOWNSPOTS REPAIR PIER 1 AND 22
I-90/94 (SB) RAMP TO I-55 (WB) OVER CHICAGO RIVER SN 016-1066
 SCALE: SHEET S7-3 OF S7-3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	48
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

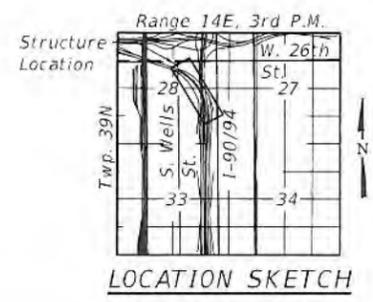
Existing Structure: Existing S.N. 016-1067 Carrying Ramp A (SB I-90/94 Elevated Local Lanes over Stewart St. to 29th St.) was originally built in 1962 under Section No. S-2424.3-4H and reconstructed in 1988 under Section No. 1985-82R. Existing Structure has 17 total spans. Overall length of the bridge is approximately 1234'-0". Out-to-Out width of the bridge varies from approximately 43'-10" to 46'-3". The bridge is on a curved alignment.

Traffic will be maintained utilizing staged construction during repair work.

No Salvage.



DATE SIGNED: 05/02/2018
EXP. DATE: 11/30/2018

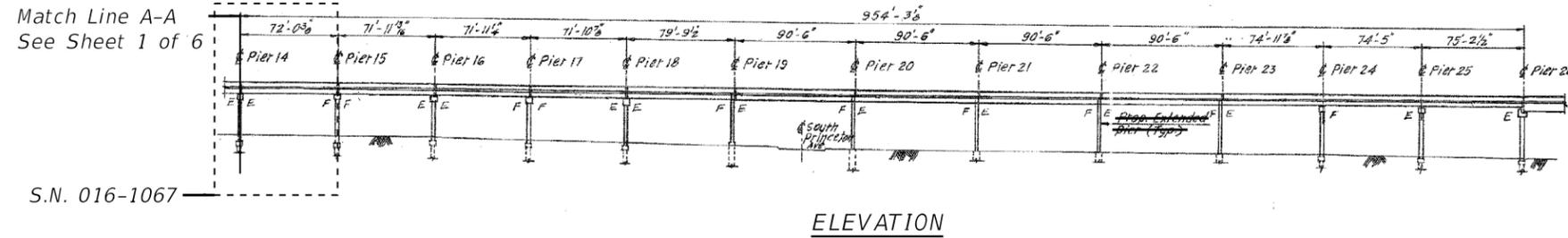


GENERAL PLAN AND ELEVATION
I-90/94 (DAN RYAN EXPRESSWAY)
OVER STEWART ST. TO 29TH ST.
F.A.I. 94
SECTION 2018-008-BJR
COOK COUNTY
STRUCTURE NO. 016-1067

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94	2018-008-BJR	COOK	133	49											
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PLOT DATE =	DRAWN - SAT	REVISED -	REVISED -												
	CHECKED - SPS	REVISED -	REVISED -	CONTRACT NO. 62G16											

Match Line A-A
See Sheet 1 of 6

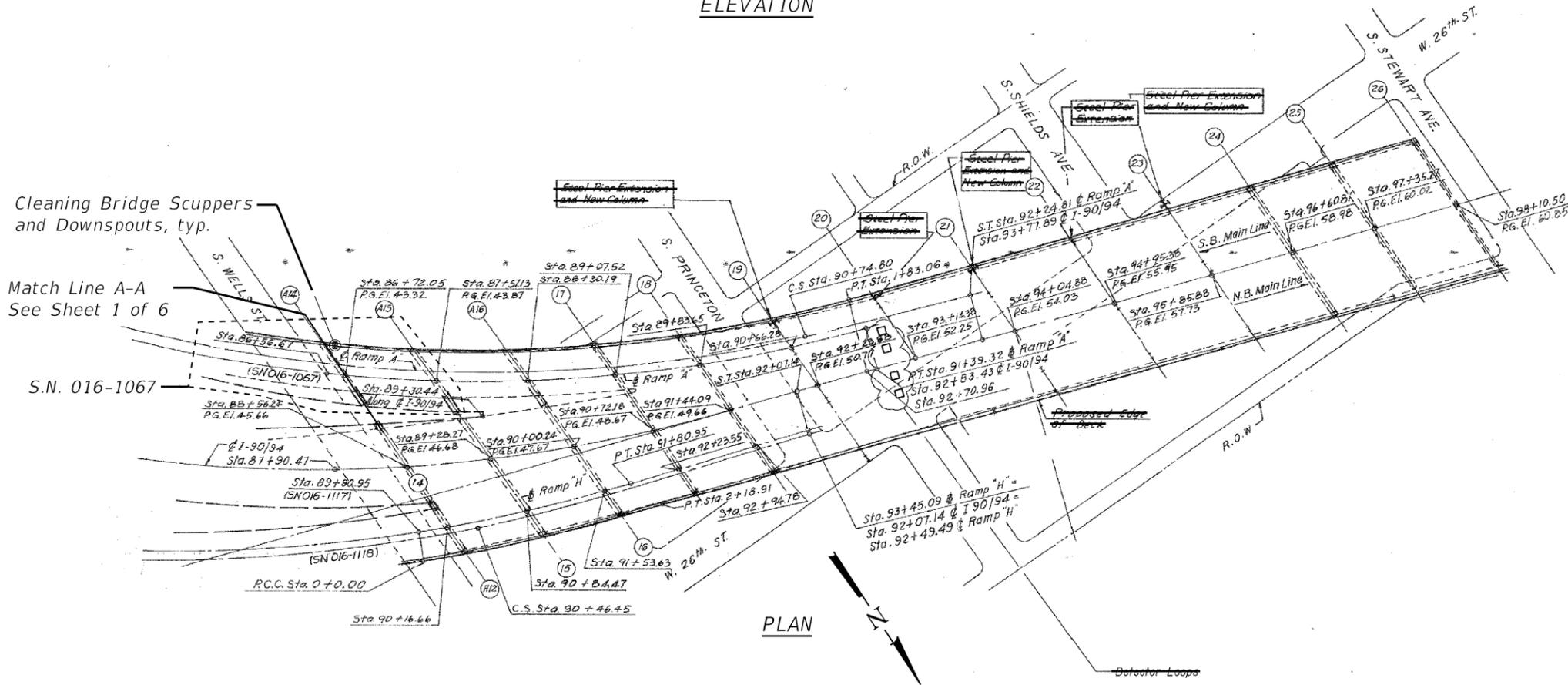


ELEVATION

Cleaning Bridge Scuppers
and Downspouts, typ.

Match Line A-A
See Sheet 1 of 6

S.N. 016-1067



PLAN

GENERAL PLAN AND ELEVATION - II
I-90/94 (DAN RYAN EXPRESSWAY)
OVER STEWART ST. TO 29TH ST.

F.A.I. 94
SECTION 2018-008-BJR
COOK COUNTY
STRUCTURE NO. 016-1067

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET S08-2 OF S08-6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	50
CONTRACT NO. 62G16				
ILLINOIS		FED. AID PROJECT		

GENERAL NOTES

CONSTRUCTION

1. 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 at the unit price bid for the work.
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3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

S.N. 016-1067 SCOPE OF WORK

1. Remove and Replace existing Preformed Joint Seal with new Preformed Joint Seal per the Preformed Bridge Joint Seal Special Provision (PBJS) at the S. Abutment and Pier A13.
2. Remove and Replace broken and/or missing Drain Pipes at S. Abut. West Side and Pier A6 West Side.
3. Clean all deck drainage scuppers and downspouts (14 SB).

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF SHEETS

- S08-1. General Plan and Elevation
- S08-2. General Plan and Elevation - II
- S08-3. General Notes, Index of Sheets and Bill of Materials
- S08-4. Existing Joint Elevations
- S08-5. Joint Replacement Details
- S08-6. South Abutment, Pier A6 Downspout Repairs

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Preformed Joint Seal, 2"	Foot	51.5
Preformed Joint Seal, 3"	Foot	65.5
Cleaning Bridge Scuppers and Downspouts	Each	14
Bridge Drainage System Repair	Foot	6

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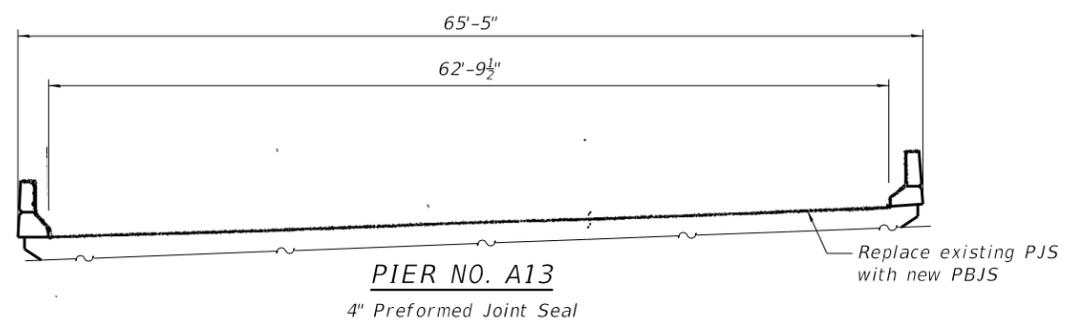
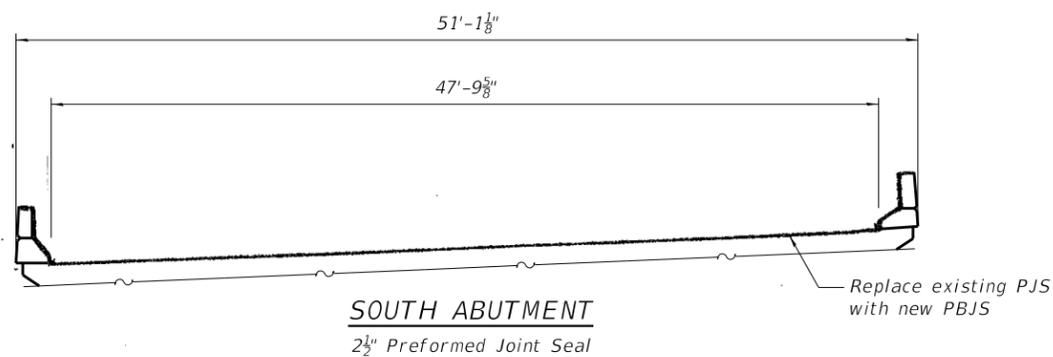
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIALS
I-90/94 OVER STEWART ST. TO 29TH ST., S.N.: 016-1067**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	51
CONTRACT NO. 62G16				
		ILLINOIS	FED. AID PROJECT	

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SOUTHBOUND

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Prefomed Joint Seal, 2"	Foot	51.5
Prefomed Joint Seal, 3"	Foot	65.5

Notes:

- The length of the joint is measured from out-to-out of the deck.
- For Details of the Joint, See Sheet S08-5 of S08-6.



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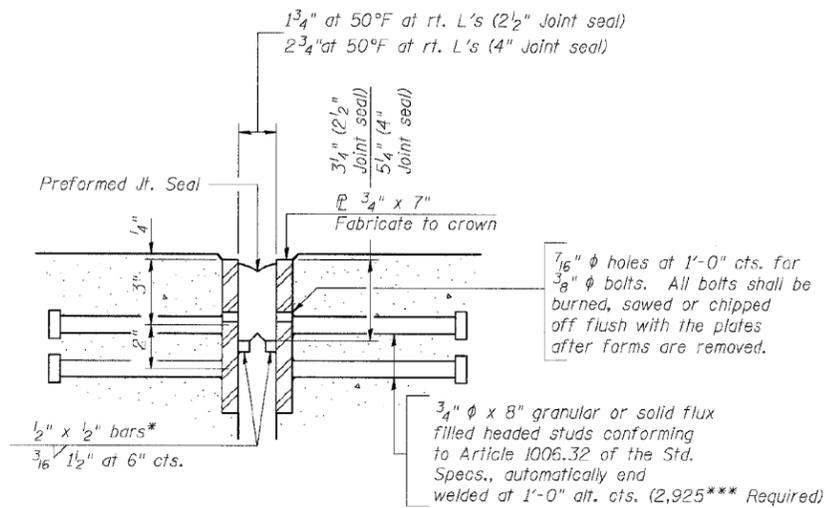
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING JOINT ELEVATIONS
 I-90/94 OVER STEWART ST. TO 29TH ST., S.N.: 016-1067**

SHEET S08-4 OF S08-6 SHEETS

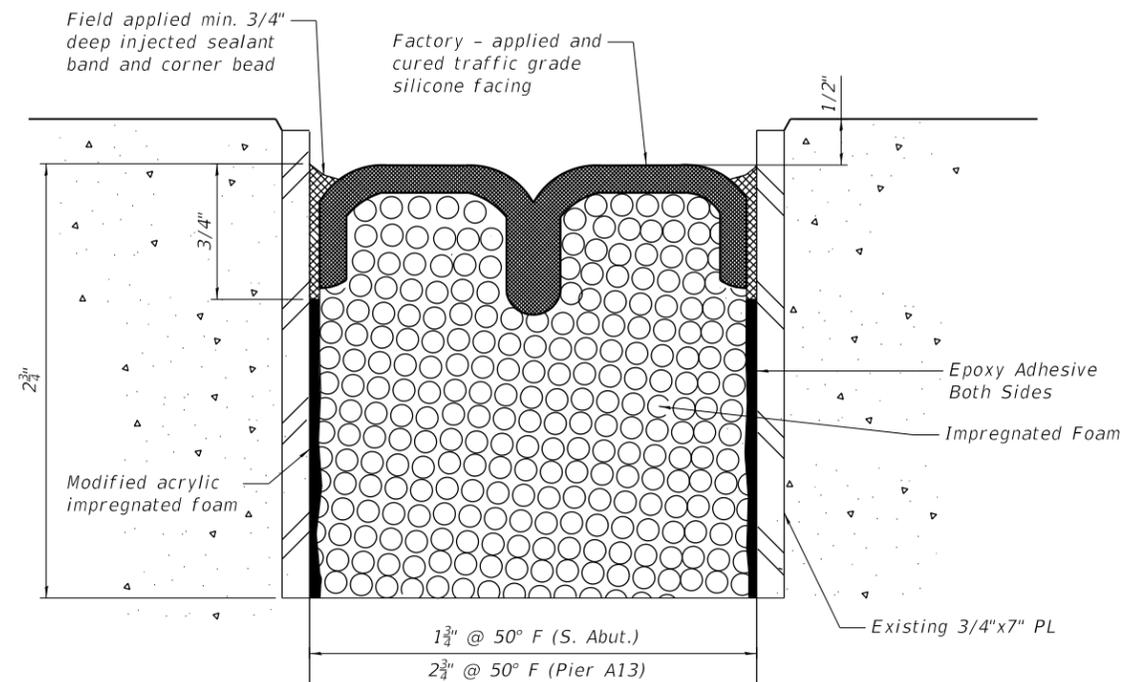
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		ILLINOIS	FED. AID PROJECT	

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SECTION THRU EXISTING PREFORMED JOINT SEAL

(2 1/2" at S. Abut. and 4" at Pier A13)



PROPOSED PREFORMED BRIDGE JOINT SEAL

AT S. ABUT. AND PIER A13

Note: The new joint shall be a "Preformed, Pre-compressed, Silicone Coated, Self-Expanding Sealant System" and paid for as Preformed Joint Seal. See Special Provision "Preformed Bridge Joint Seal" (PBJS).



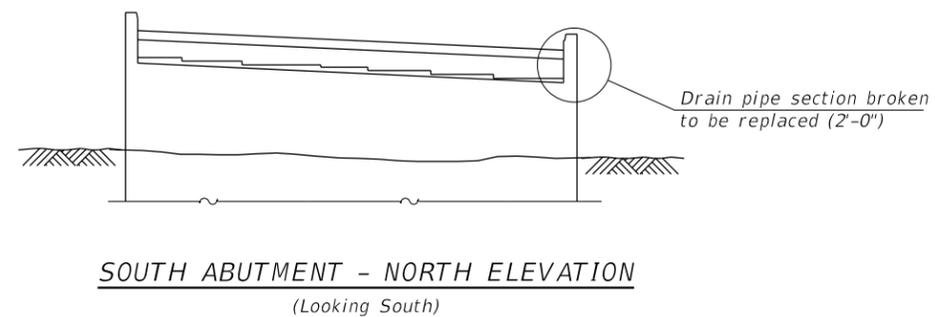
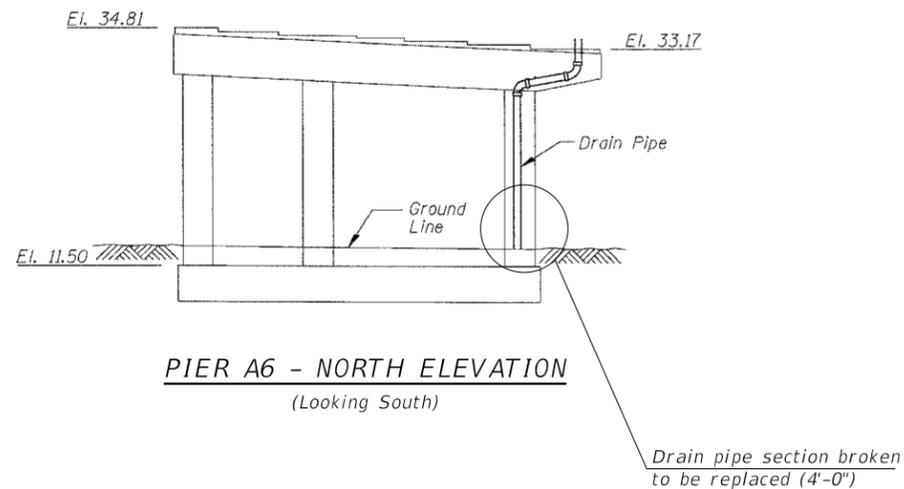
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**JOINT REPLACEMENT DETAILS
 I-90/94 OVER STEWART ST. TO 29TH ST., S.N.: 016-1067**

SHEET S08-5 OF S08-6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	53
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
2. 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.
3. 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 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 length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier and abutment locations, see General Plan and Elevation Sheet.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	Foot	6

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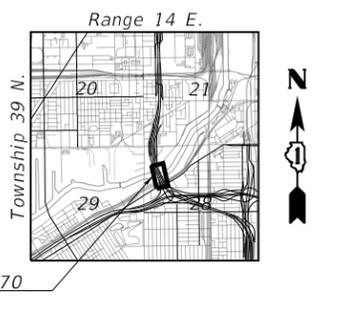
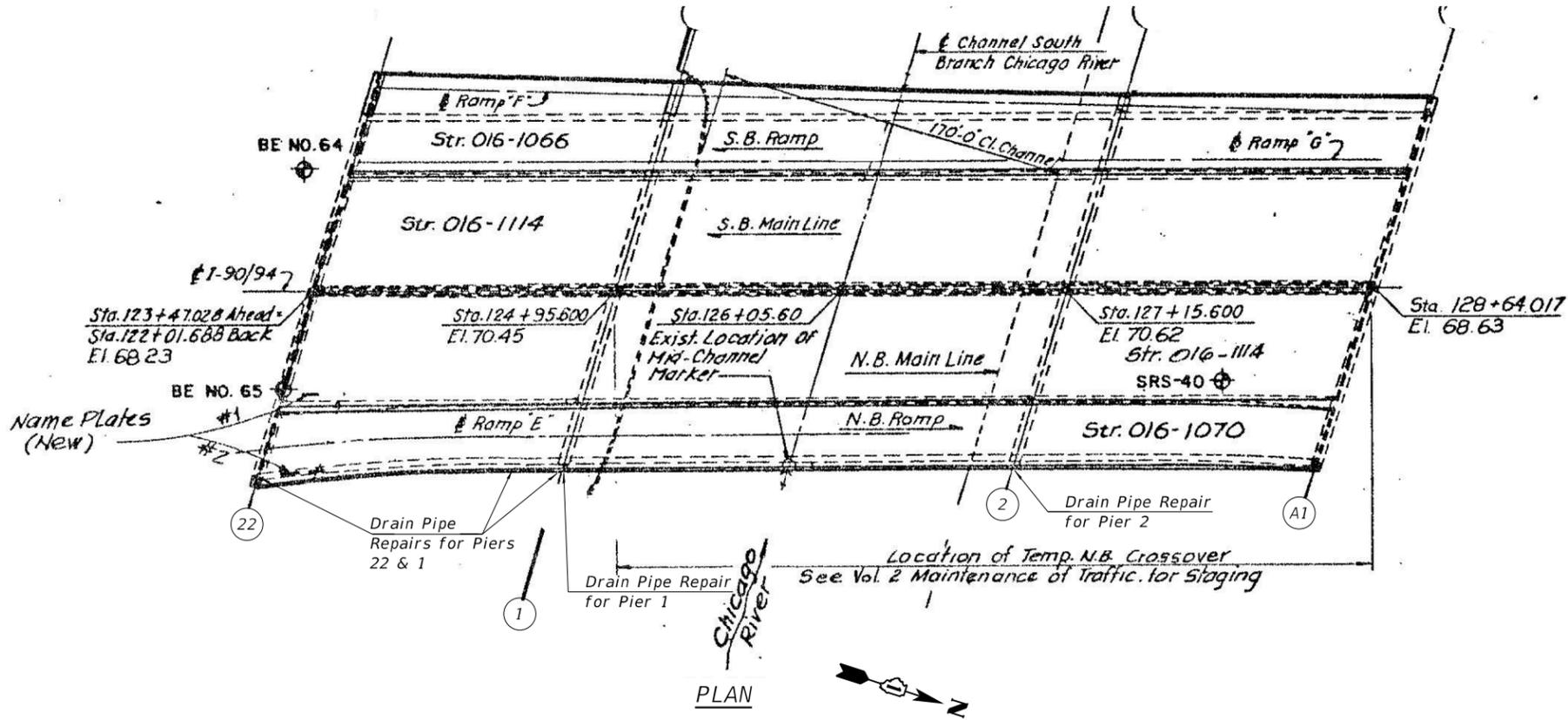
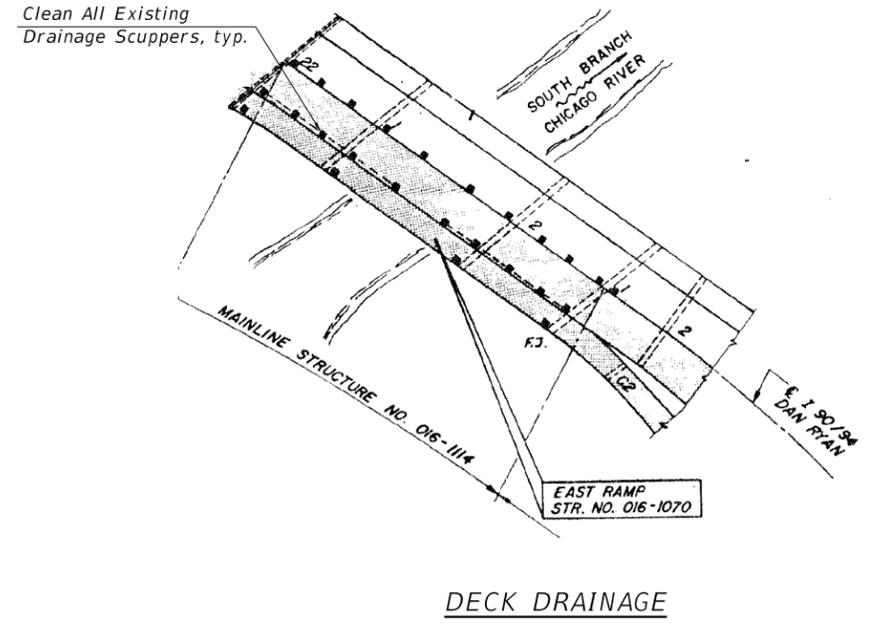
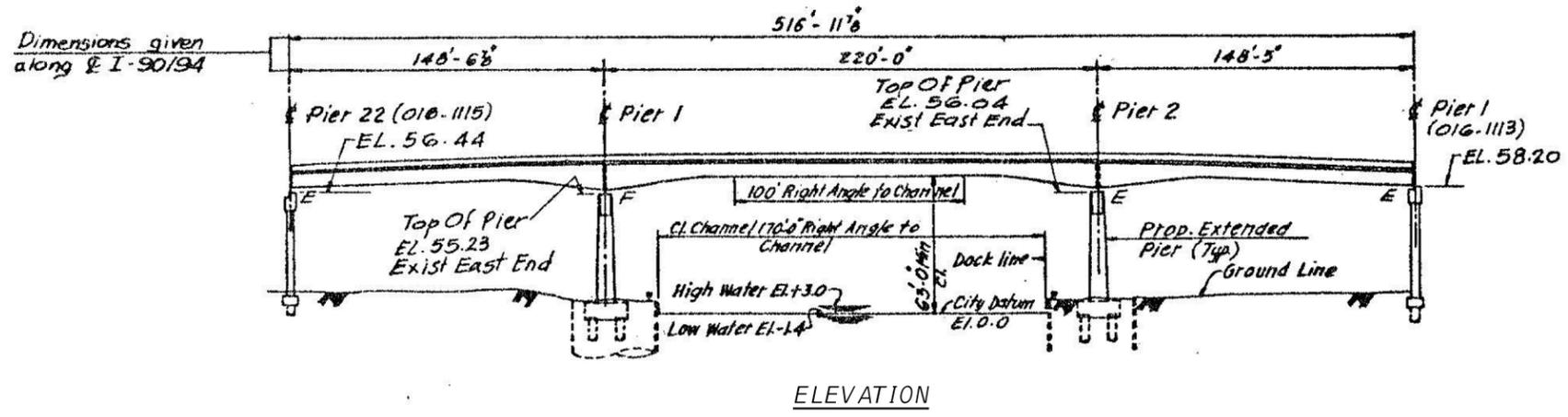
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT, PIER A6 DOWNSPOUT REPAIRS
I-90/94 OVER STEWART ST. TO 29TH ST., S.N.: 016-1067**

SHEET S08-6 OF S08-6 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	54
CONTRACT NO. 62G16				
		ILLINOIS	FED. AID PROJECT	



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HBM
ENGINEERING GROUP, LLC

0161070-001-GPE.dgn
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PLOT DATE = 5/2/2018

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STATE OF ILLINOIS
DEPARTMENT OF
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GENERAL PLAN AND ELEVATION
I-90/94 NB RAMP FROM I-55 OVER CHICAGO RIVER SN 016-1070

SCALE: SHEET S9-1 OF S9-3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	55
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

SN 016-1070 SCOPE OF WORK

1. Remove and replace broken and/or missing Drain pipes at P1 SP3 East Side, SP3 East Side Longitudinal Run, P2 East Side, P1 SP2 East Side and P22 East Side.
2. Clean all deck drainage scuppers (4 N.B.)

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF DRAWINGS

- S9-1 General Plan and Elevation
- S9-2 General Notes, Index of Sheets and Total Bill Of Material
- S9-3 Downspout Repairs Piers 1, 2 and 22

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cleaning Bridge scuppers and downspouts	EACH	4
Bridge Drainage System Repairs	FOOT	26

FILE PATH = F:\1710-746 IDOT District 1\NO 2 Den Rgn B-ridge Repairs\Sheet Files\SN 016-1070\0161070-002-GenNotesBOM.dgn



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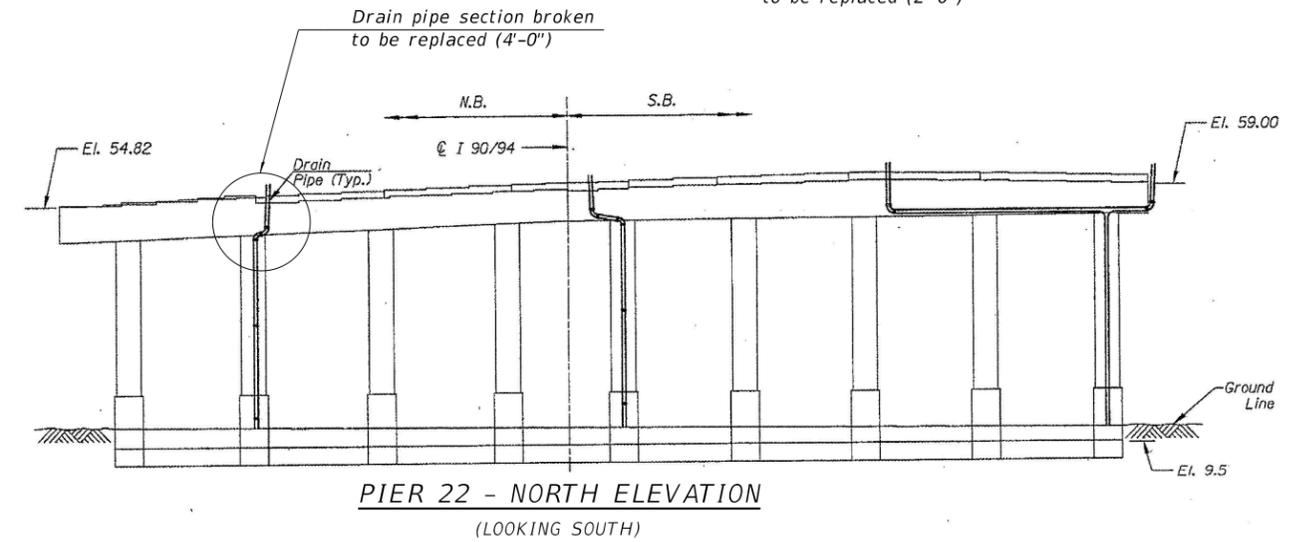
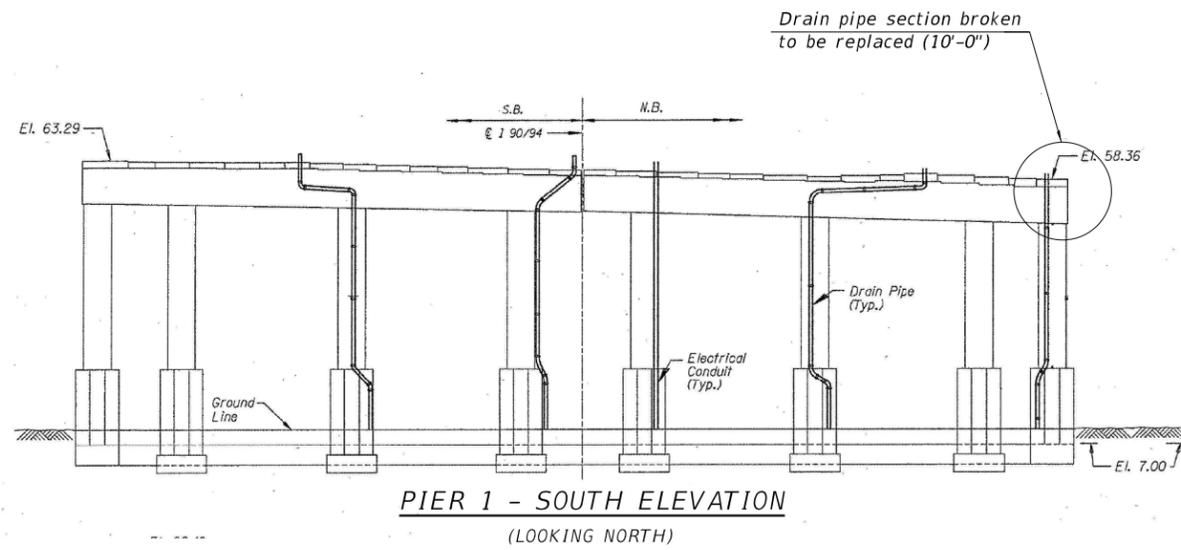
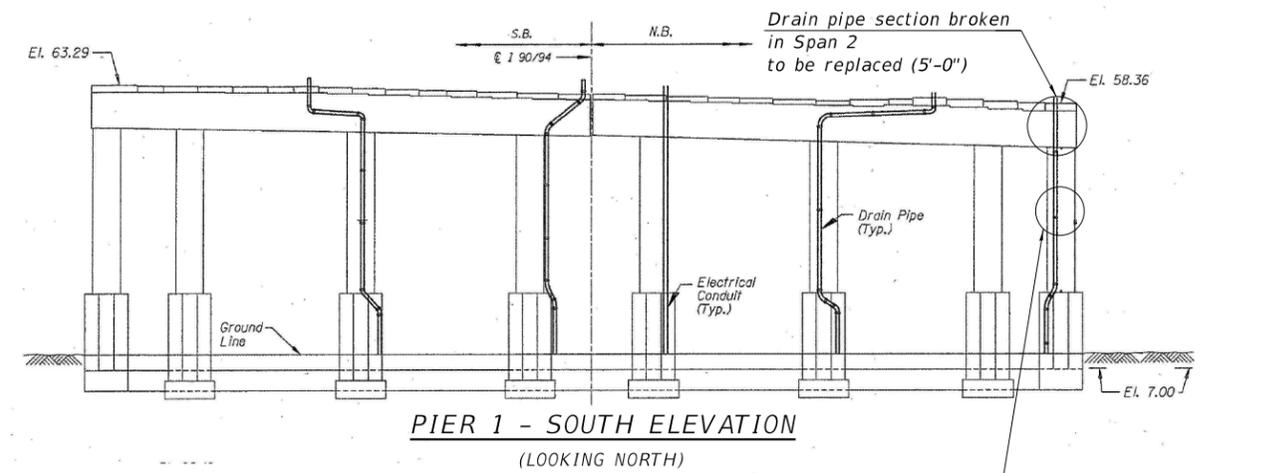
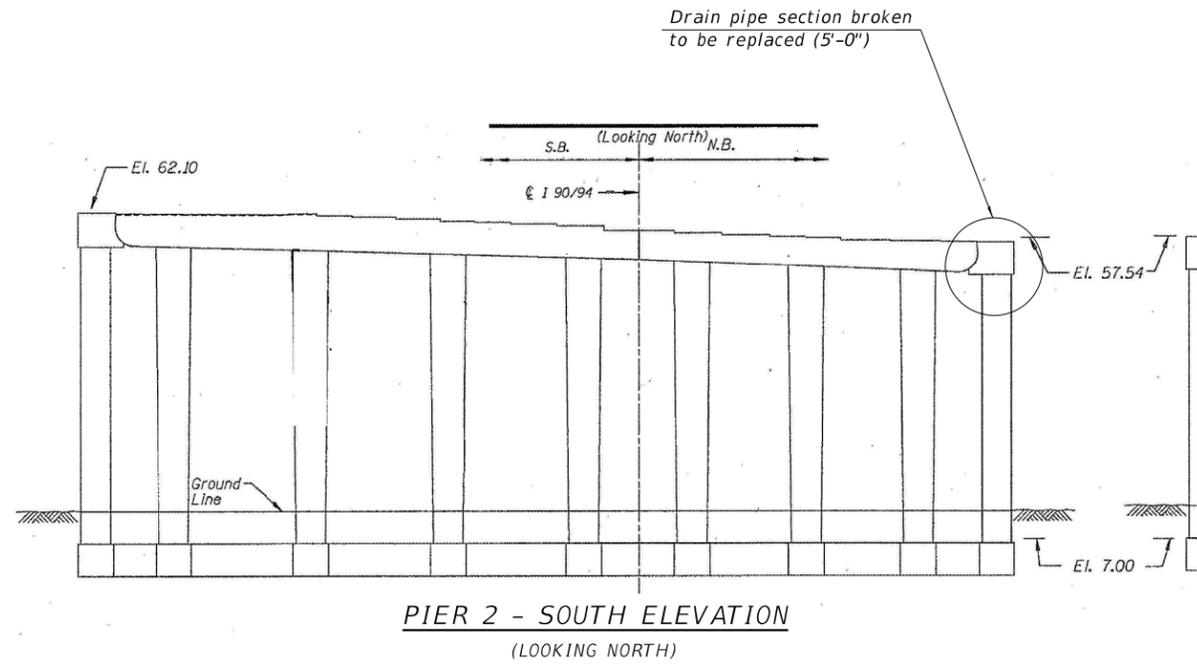
STATE OF ILLINOIS
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TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIAL	
I-90/94 NB RAMP FROM I-55 OVER CHICAGO RIVER SN 016-1070	
SCALE:	SHEET S9-2 OF S9-3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	56
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	FOOT	26



DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
2. 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.
3. When existing drain pipes are wrapped with tape, the tape shall be removed, if the pipe is broken or missing a connection, the pipe shall be replaced or otherwise new tape shall be provided. The type of tape shall be approved by the Engineer. The cost shall be included in "Bridge Drainage System Repairs" and the length measured shall be the length of the pipe replaced or length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see General Plan and Elevation Sheet.

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0161070-003-Downspout Repairs Pier1,2&22.dgn
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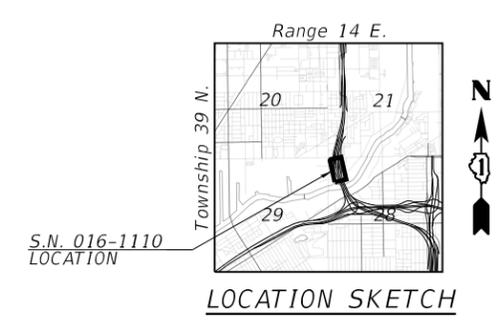
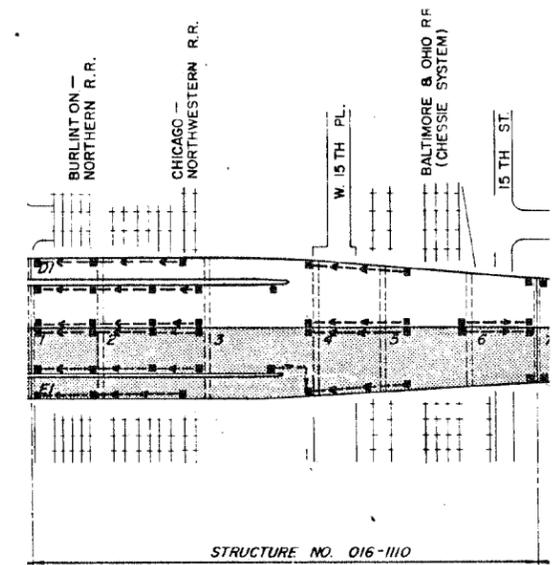
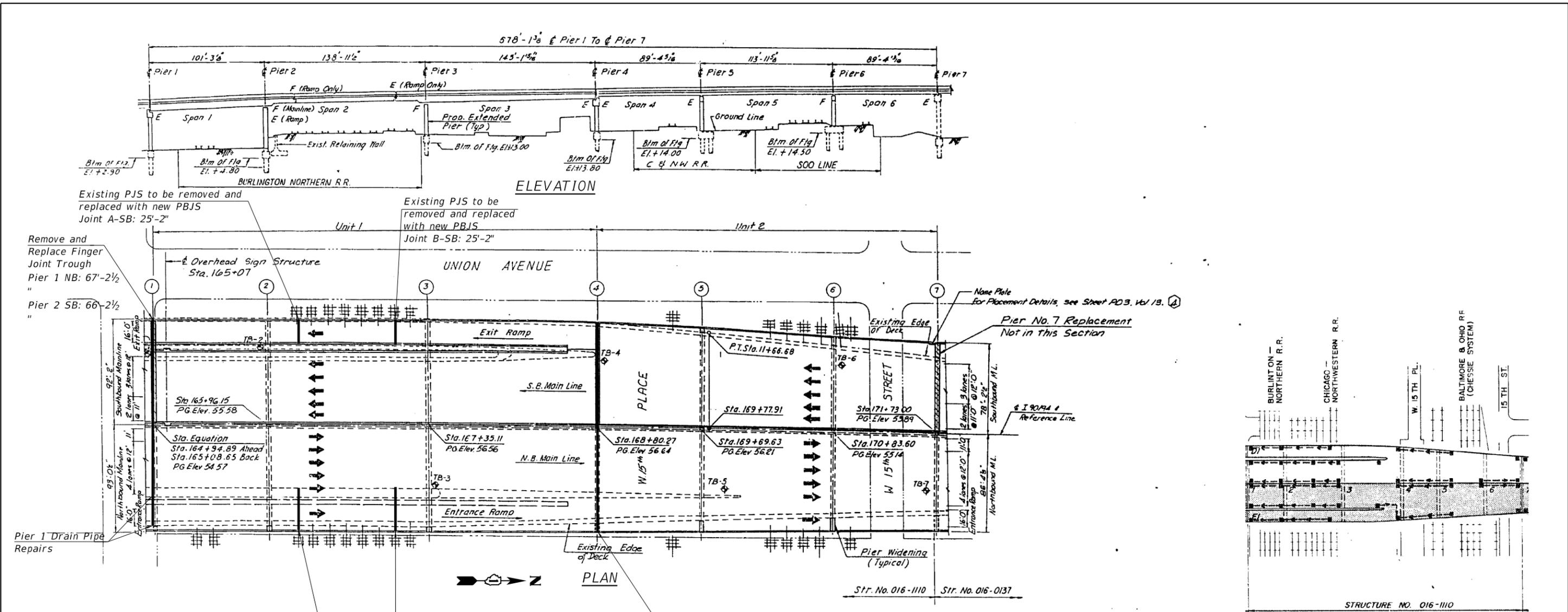
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DOWNSPOUT REPAIRS PIER 1, 2, 22
I-90/94 NB RAMP FROM I-55 OVER CHICAGO RIVER SN 016-1070
 SCALE: SHEET S9-3 OF S9-3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	57
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



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STATE OF ILLINOIS
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GENERAL PLAN AND ELEVATION
190-94 OVER 15TH ST TO 16TH ST SN 016-1110

SCALE: SHEET S10-1 OF S10-7 SHEETS STA. TO STA.

F.A.P. RTE. 94	SECTION 2018-008-BJR	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 58
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

SN 016-1110 SCOPE OF WORK

1. Remove and replace Finger Joint Troughs at NB Pier 1, SB Pier 1, NB Pier 4 and SB Pier 4.
2. Remove and replace existing 4" PJS expansion joints with Performed Joint Seal per the Performed Bridge Joint Seal Special Provision (PBJS) NB Joint A, SB Joint A, NB Joint B and SB Joint B.
3. Remove and replace broken and/or missing Drain pipes at Pier 1 East Side of Ramp E and Pier 1 East Side between Ramp E and ML.
4. Clean all deck drainage scuppers (19 SB and 19 NB)

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF DRAWINGS

- S10-1 General Plan and Elevation
- S10-2 General Notes, Index of Sheets and Total Bill Of Material
- S10-3 Joint Repair Sections
- S10-4 Joint Repair Details
- S10-5 Pier 01 Finger Plate Joint Repair Sections and Details
- S10-6 Pier 04 Finger Plate Joint Repair Sections and Details
- S10-7 Downspout Repairs Pier 1

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cleaning Bridge scuppers and downspouts	EACH	38
Bridge Drainage System Repairs	FOOT	347
Performed Joint Seal, 1"	FOOT	51
Performed Joint Seal, 3"	FOOT	51

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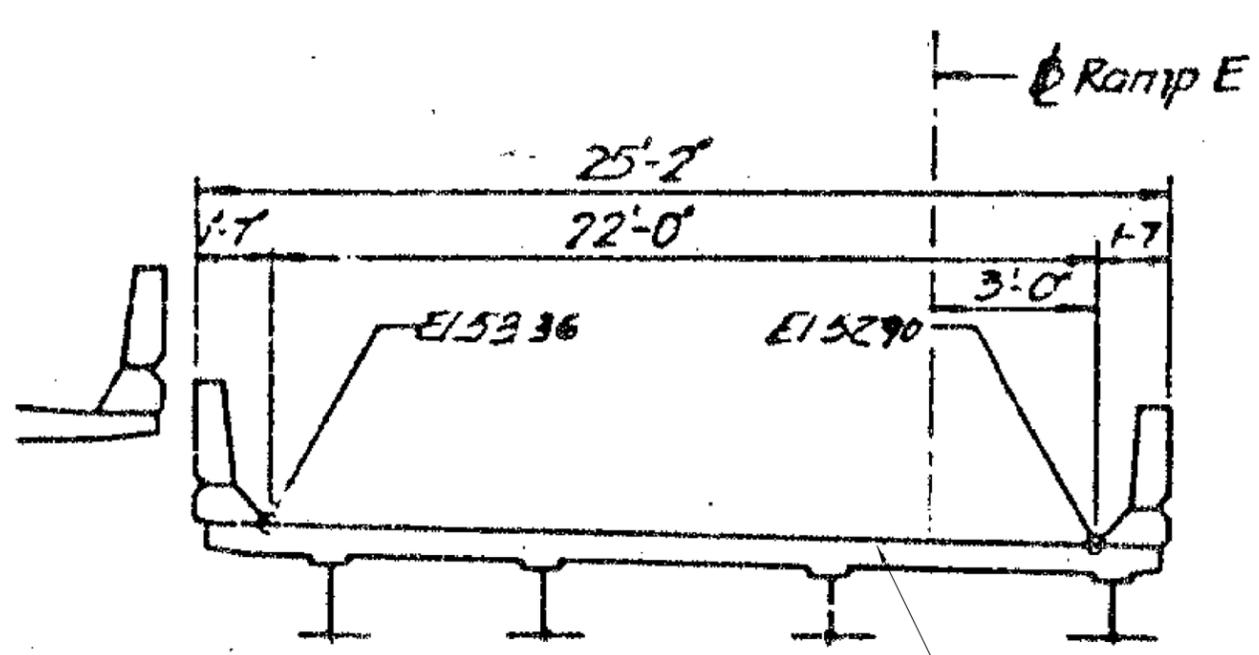
GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIAL
I-90/94 OVER 15TH ST 16TH ST SN 016-1110

SCALE: SHEET S10-2 0610-7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	59
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

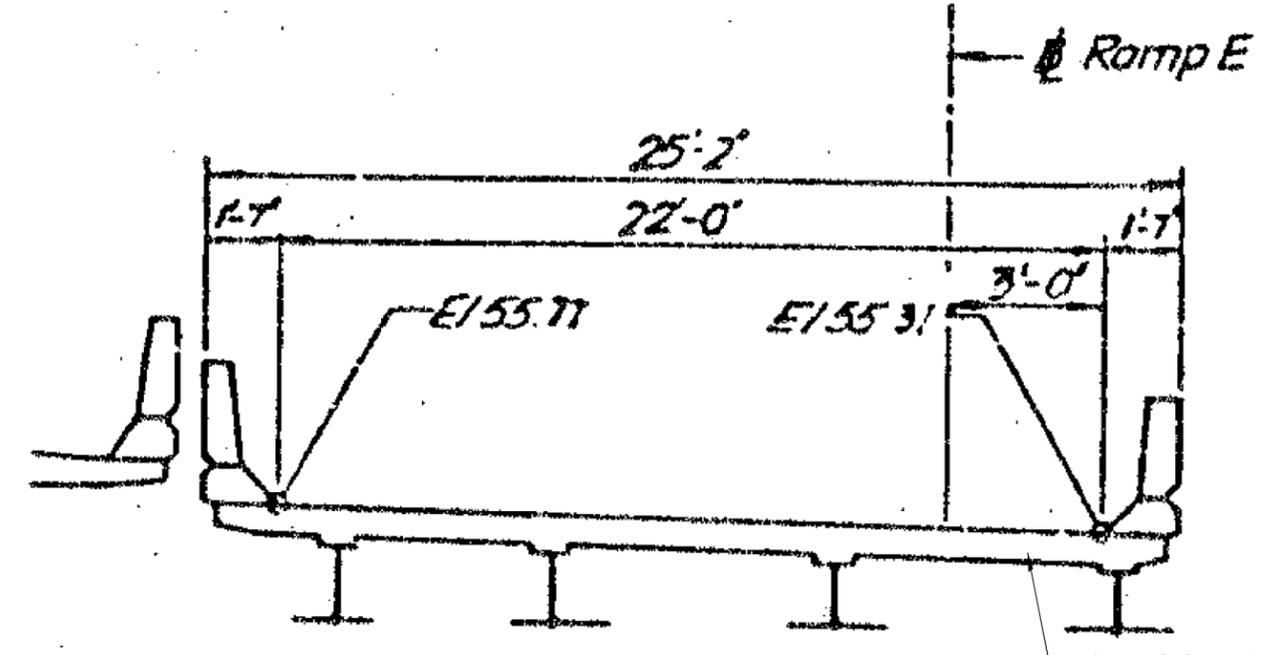
BILL OF MATERIAL

ITEM	UNIT	TOTAL QUANTITY
Preformed Joint Seal, 1"	FOOT	51
Preformed Joint Seal, 3"	FOOT	51



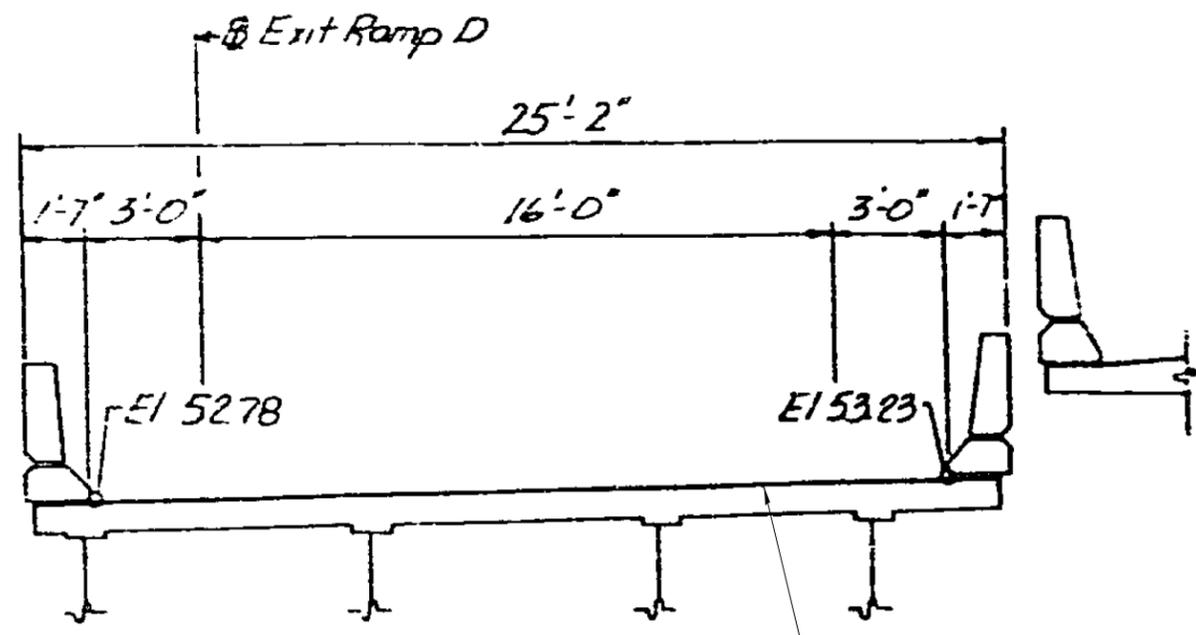
AT NB JOINT A
1" Preformed Joint Seal

Replace existing PJS
with new PBJS
NB: 25'-2"



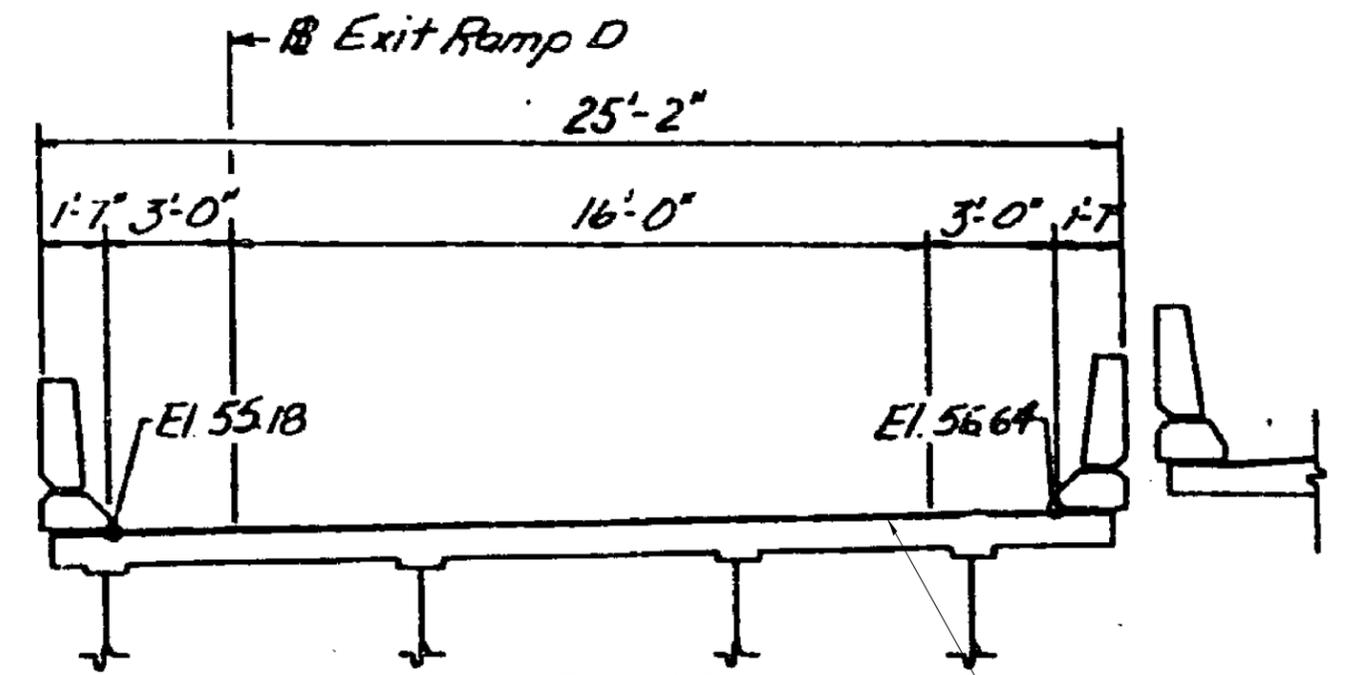
AT NB JOINT B
2 3/4" Preformed Joint Seal

Replace existing PJS
with new PBJS
NB: 25'-2"



AT SB JOINT A
1" Preformed Joint Seal

Replace existing PJS
with new PBJS
SB: 25'-2"



AT SB JOINT B
2 3/4" Preformed Joint Seal

Replace existing PJS
with new PBJS
sb: 25'-2"

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DEPARTMENT OF
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JOINT REPAIR SECTIONS
I-90/94 OVER 15TH ST to 16TH ST SN 016-1110

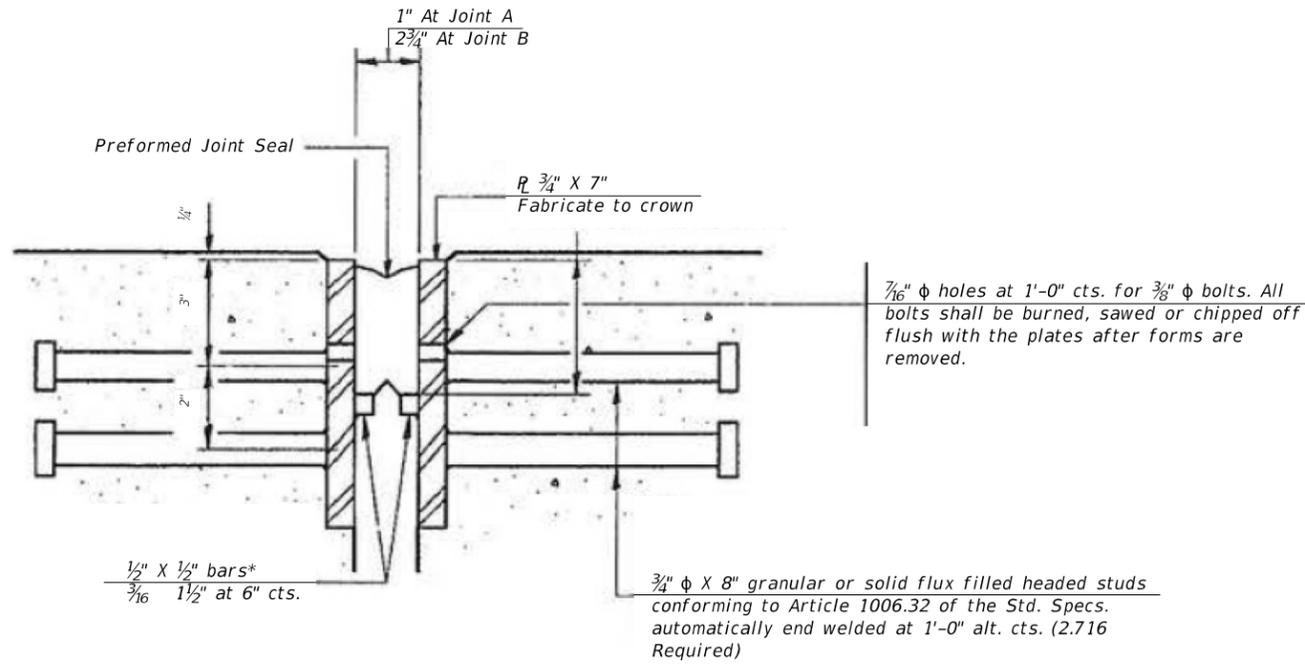
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CONTRACT NO. 62G16				

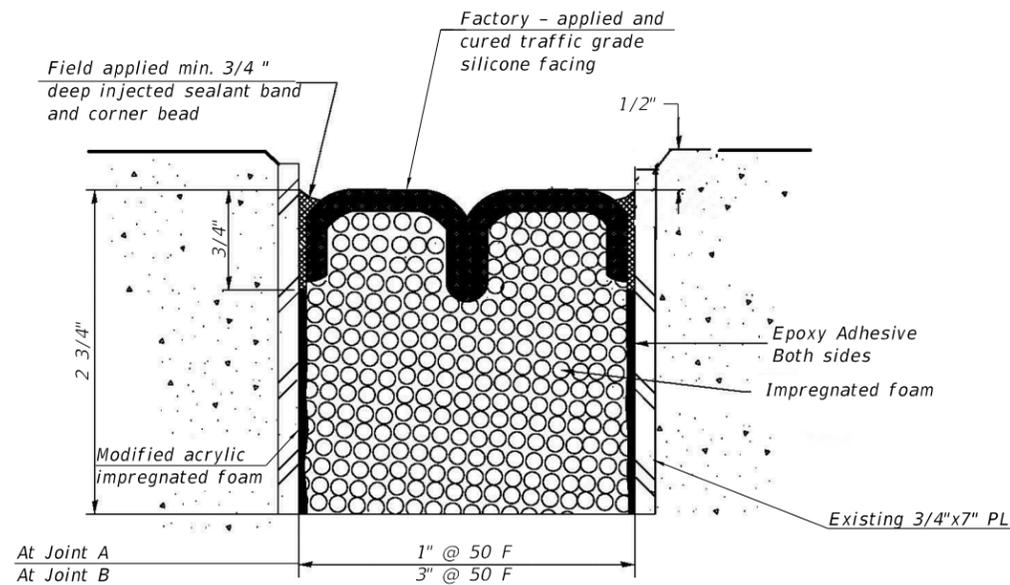
ILLINOIS FED. AID PROJECT

TABLE 1

STRUCTURE	JOINT	A
016-1110	JOINT A N.B.	1" @ 50° F
016-1110	JOINT A S.B.	1" @ 50° F
016-1110	JOINT B N.B.	2 3/4" @ 50° F
016-1110	JOINT B S.B.	2 3/4" @ 50° F



EXISTING PREFORMED JOINT SEAL
SECTION AT JOINT A & B



PROPOSED PBJS JOINT SEAL
AT JOINTS A & B

Note: The new joint shall be a "Preformed, Pre-compressed, Silicone Coated, Self-Expanding Sealant System" and paid for as Preformed Joint Seal. See special provision "Preformed Bridge Joint Seal" (PBJS).

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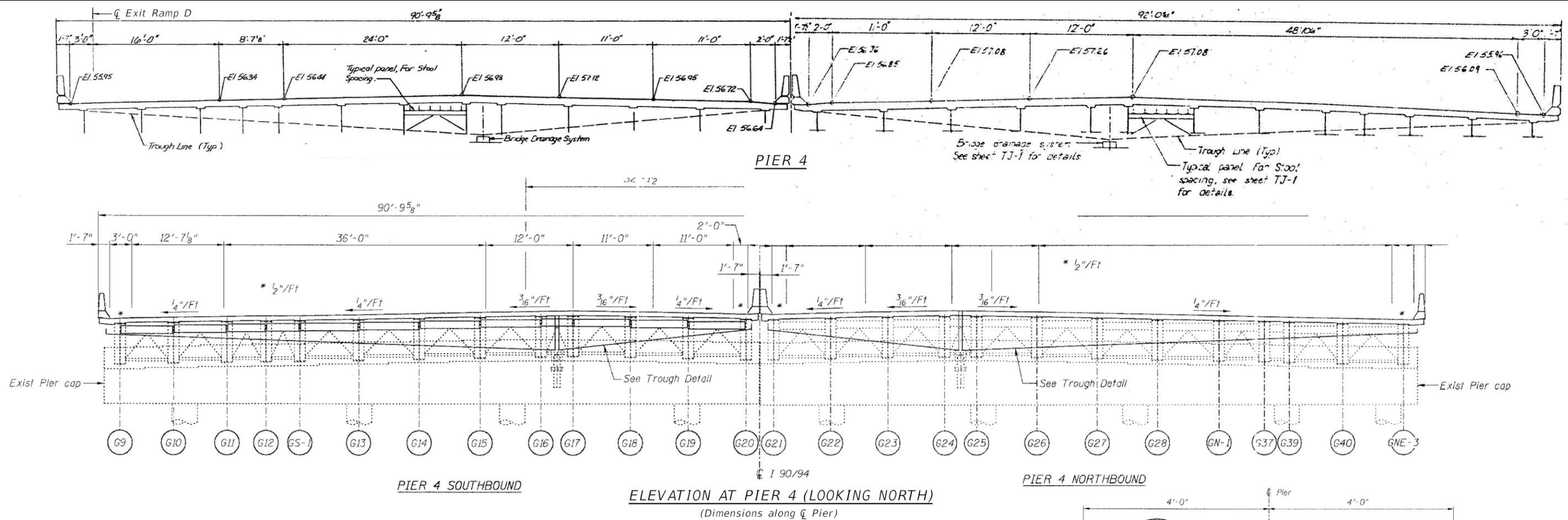
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JOINT REPAIR DETAILS
I-90/94 OVER 15TH ST TO 16TH ST SN 016-1110
SCALE: SHEET S10-4 OF S10-7 SHEETS STA. TO STA.

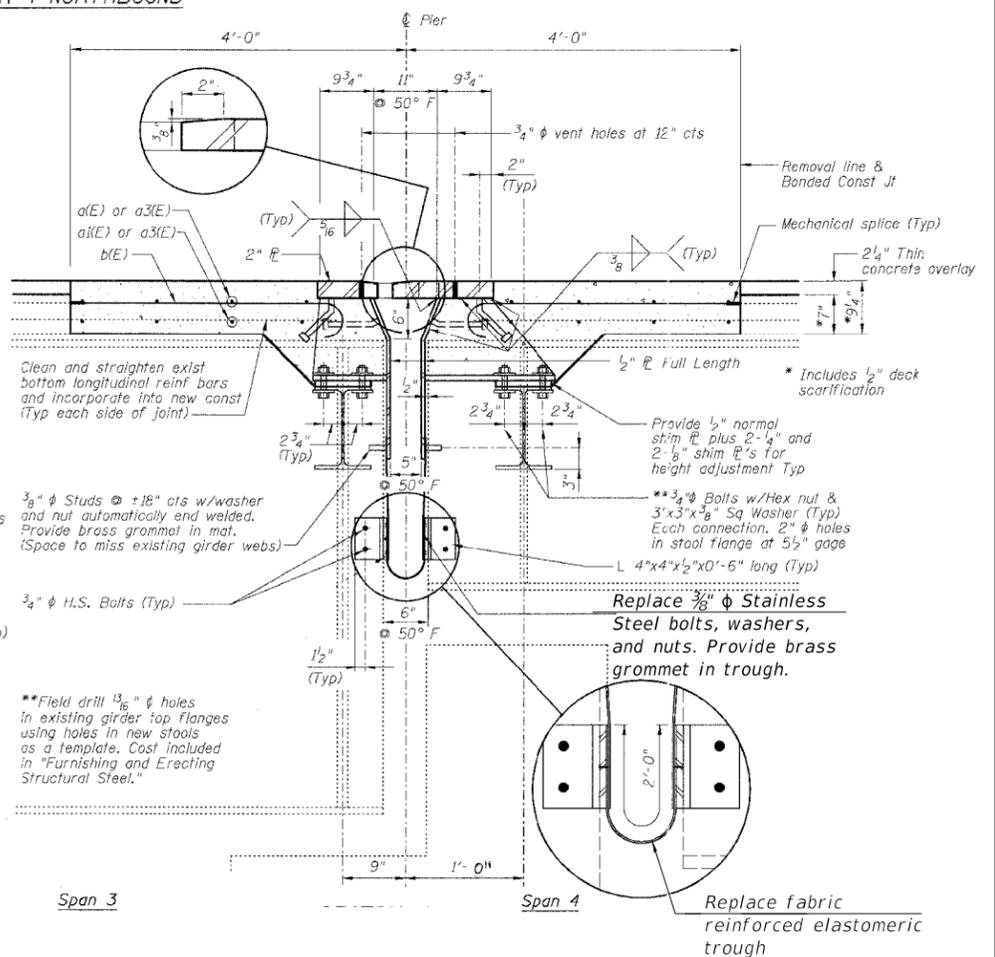
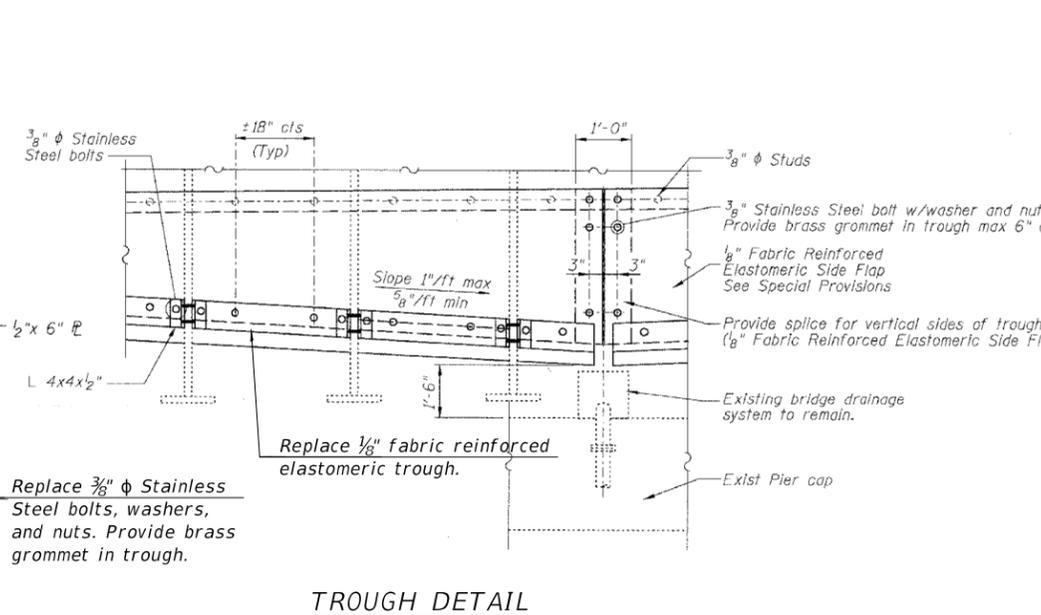
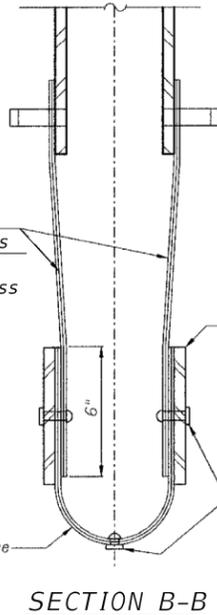
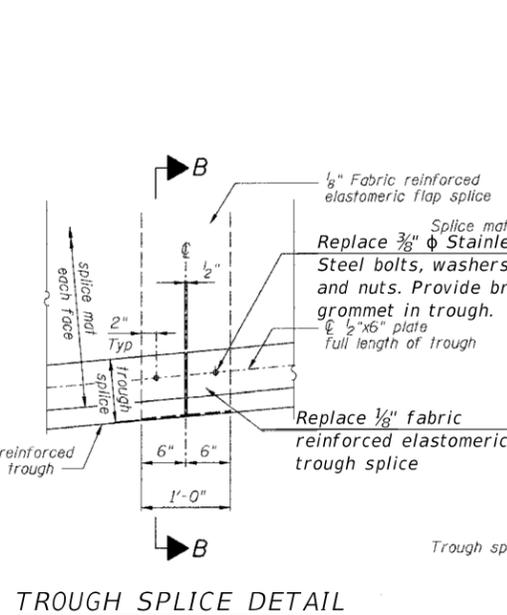
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94	2018-008-BJR	COOK	133	61
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



NOTES:

1. For Notes and Bill of Material, see Sheet S10-5

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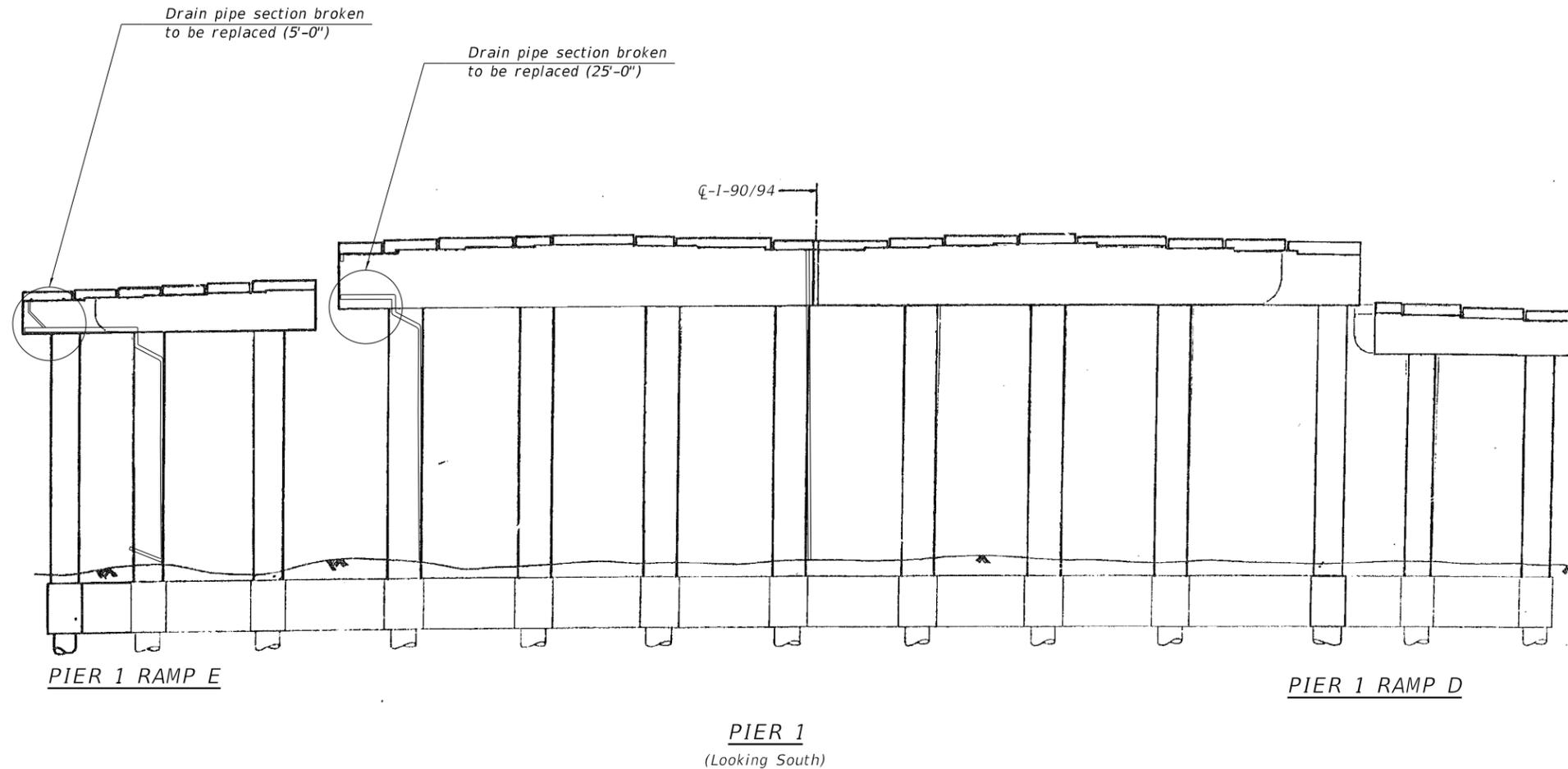
PIER 04 FINGER PLATE JOINT REPAIR SECTIONS AND DETAILS
I-9094 OVER 15TH ST TO 16TH ST NO.016-1110

F.A.P. R.T.E. 94	SECTION 2018-008-BJR	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 63
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET S10-6 OF S10-7 SHEETS STA. TO STA.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	FOOT	30



DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
2. 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.
3. When existing drain pipes are wrapped with tape, the tape shall be removed, if the pipe is broken or missing a connection, the pipe shall be replaced or otherwise new tape shall be provided. The type of tape shall be approved by the Engineer. The cost shall be included in "Bridge Drainage System Repairs" and the length measured shall be the length of the pipe replaced or length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see General Plan and Elevation Sheet.

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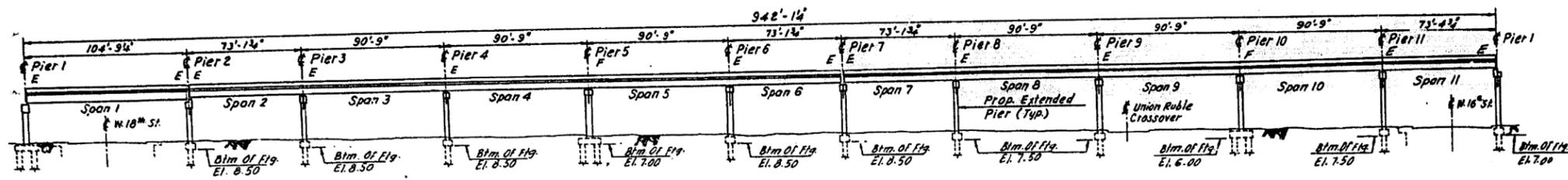
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DEPARTMENT OF
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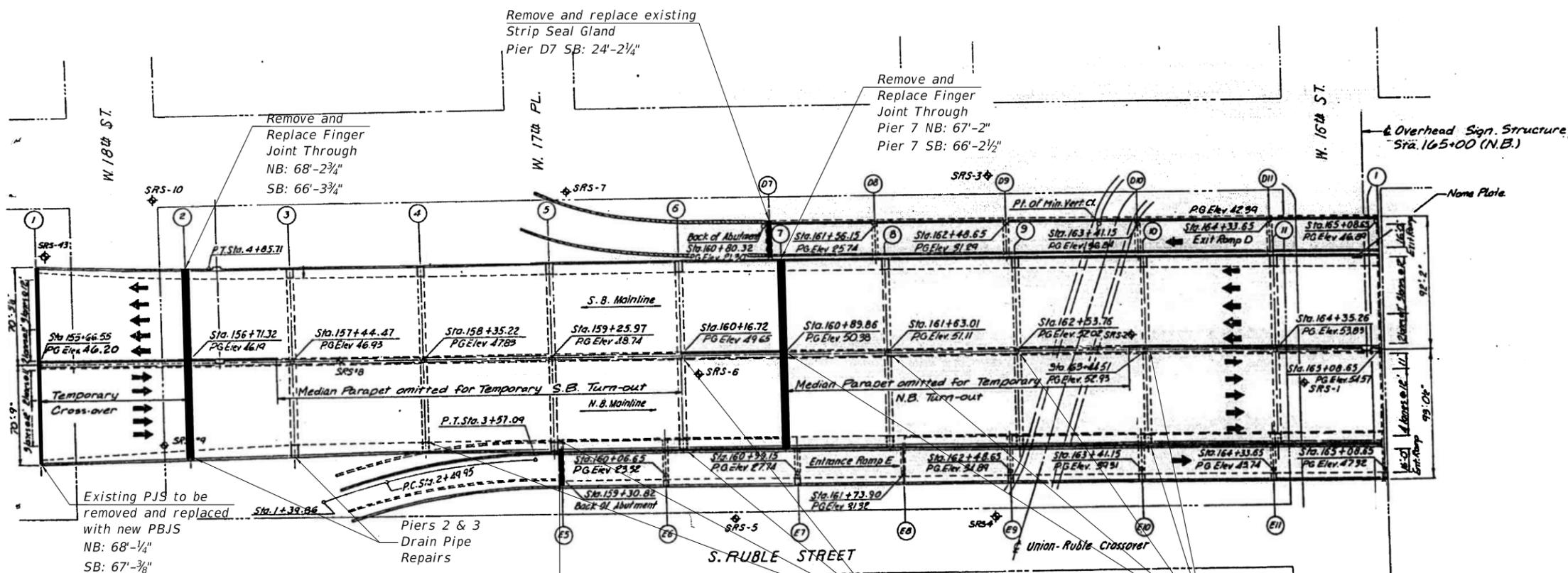
DOWNSPOUT REPAIRS PIER 1
I-90/94 OVER 15TH ST TO 16TH ST SN 016-1110

SCALE: SHEET S10-7 OF S10-7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	64
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



ELEVATION

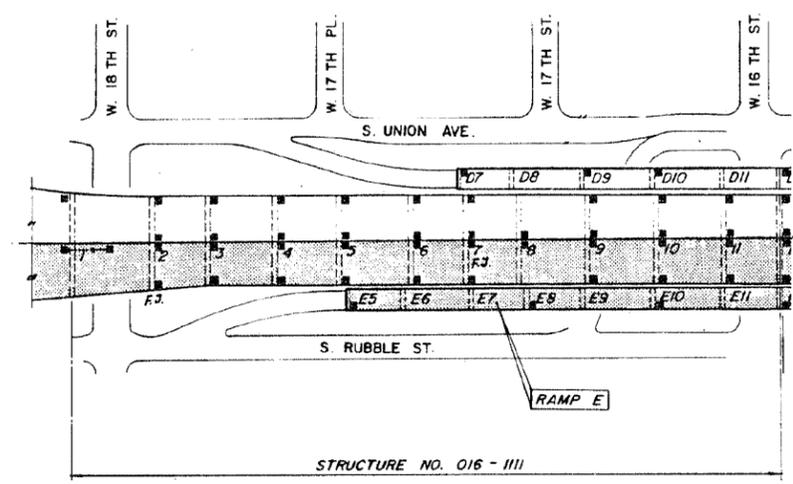


PLAN

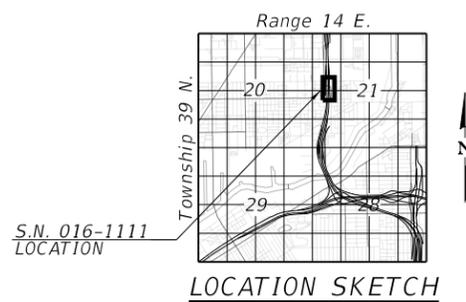
Remove and replace existing Strip Seal Gland Pier E5 NB: 22'-0"

C.R.O.W. Piers 4, 5, & 6 Drain Pipe Repairs

Piers 7, 8, 9, & 10 Drain Pipe Repairs



DECK DRAINAGE



LOCATION SKETCH

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GENERAL PLAN AND ELEVATION
 I-90/4 OVER 16TH ST TO 18TH ST SN 016-1111

SCALE: SHEET S11-1 OF S11-9 SHEETS STA. TO STA.

F.A.P. RTE. 94	SECTION 2018-008-BJR	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 65
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

CONSTRUCTION

1. 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 at the unit price bid for the work.
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3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.
5. Whenever any material is deposited into a drainage system or drainage structures, the deposited material shall be removed at the close of each working day. At the conclusion of bridge repair operations, all drainage systems and structures shall be free from dirt and debris deposited during the various bridge repair operations.

SN 016-1111 SCOPE OF WORK

1. Remove and replace Strip Seal Glands at Abutment E5 and Abutment D7.
2. Remove and replace Finger Joint Troughs at NB Pier 2, SB Pier 2, NB Pier 7 and SB Pier 7.
3. Remove and replace 4" PJS with new Performed Bridge Joint Seal per the Performed Bridge Joint Seal Special Provision (PBJS) at NB Pier 1 and SB Pier 1.
4. Remove and replace broken and/or missing Drain pipes at Pier 10 East Side, Pier 10 Center, Pier 9 Center, Pier 8 Center, Pier 7 Center, Pier 6 Center, Pier 6 East Side, Pier 5 East Side, Pier 4 East Side, Pier 3 East Side, and Pier 2 East Side.
5. Clean all deck drainage scuppers (22 SB and 23NB).

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF DRAWINGS

- S11-1 General Plan and Elevation
- S11-2 General Notes, Index of Sheets and Total Bill Of Material
- S11-3 Joint Repair Sections
- S11-4 Joint Repair Details
- S11-5 Pier 2 Finger Plate Joint Repairs Sections and Details
- S11-6 Pier 7 Finger Plate Joint Repair Sections and Details
- S11-7 Downspout Repairs Pier 2, 3, 4, and 5
- S11-8 Downspout Repairs Pier 6 and 7
- S11-9 Downspout Repairs Pier 8, 9, and 10

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cleaning Bridge scuppers and downspouts	Each	45
Bridge Drainage System Repairs	FOOT	342
Preformed Joint Seal 1"	FOOT	142
Strip Seal Gland Replacement	FOOT	49

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TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIAL

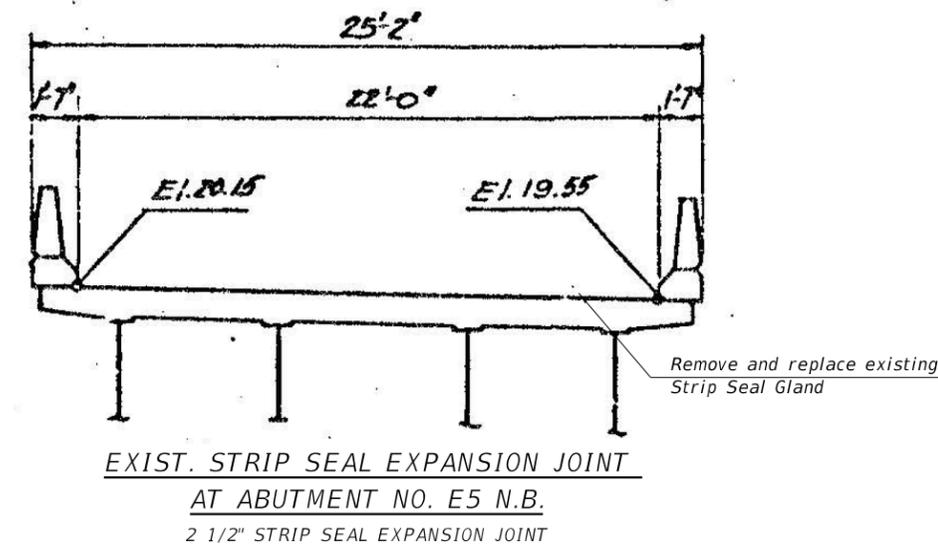
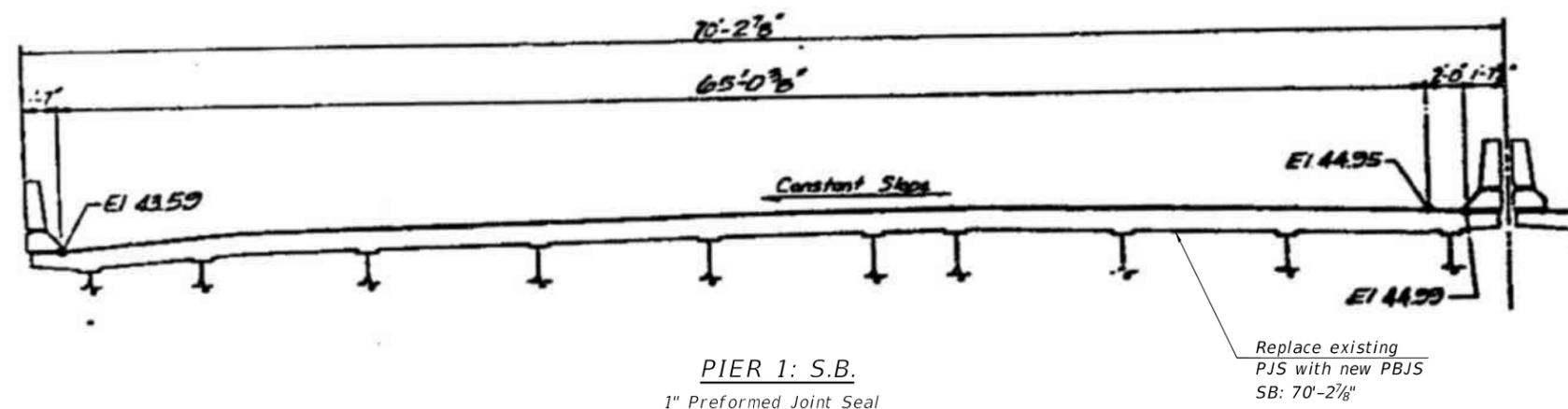
I-90/94 OVER 16TH ST TO 18TH ST SN 016-1111

SCALE: SHEETS11-2 0611-9 SHEETS STA. TO STA.

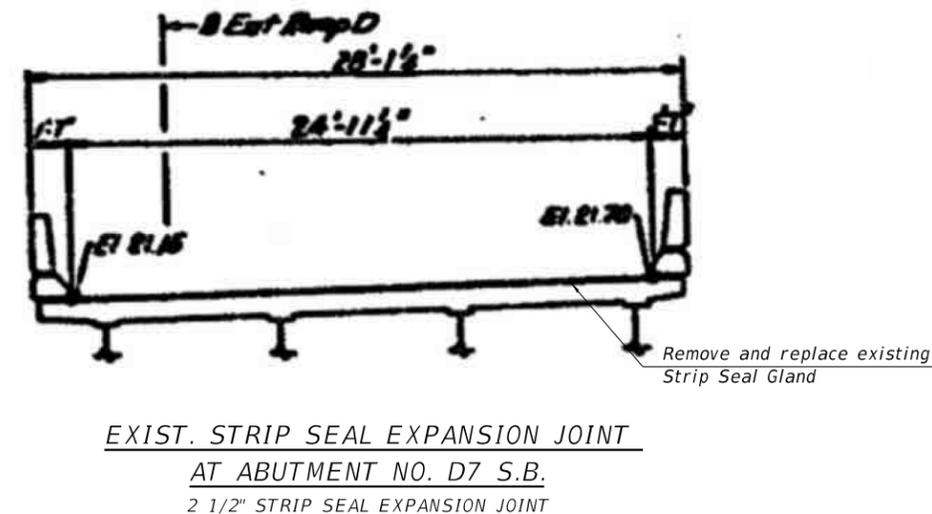
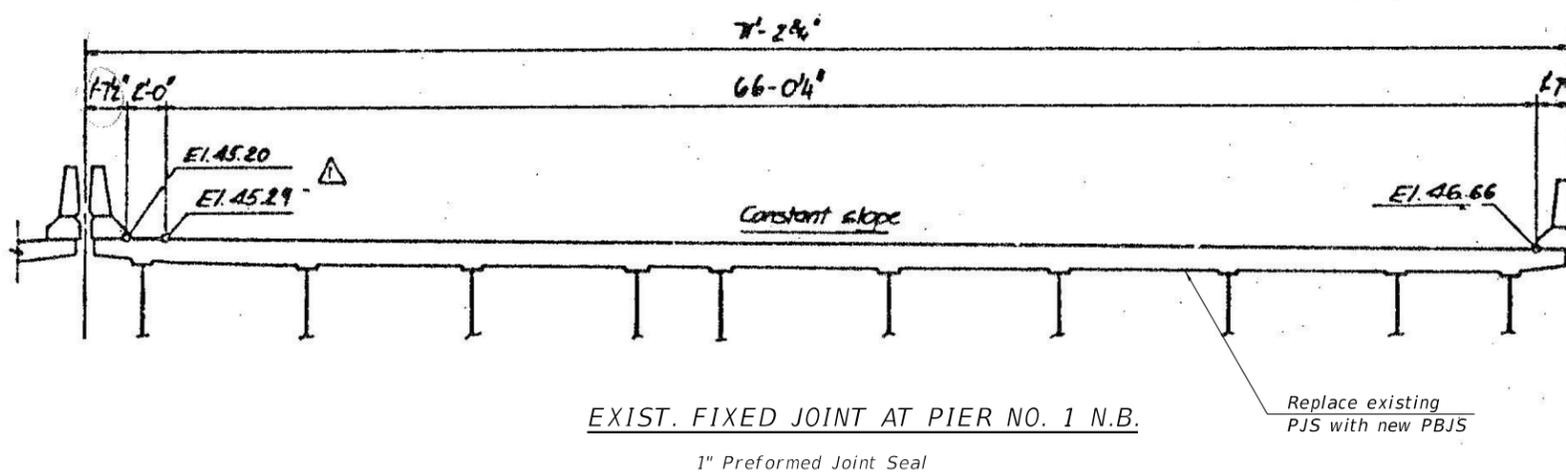
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	66
			CONTRACT NO. 62G16	
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Preformed Joint Seal 1"	FOOT	142
Strip Seal Gland Replacement	FOOT	49



EXIST. FIXED JOINT AT PIER NO. 1 S.B.



FILE PATH = F:\1710-746 IDOT District 1\NO 2 Den Rgn Bridge Repairs\Sheet Files\SN 016-1111\016111-003-Joint Repair Sections.dgn



016111-003-Joint Repair Sections.dgn
USER NAME = ahmed.issa
PLOT SCALE =
PLOT DATE = 5/2/2018

DESIGNED - EBK
DRAWN - EBK
CHECKED - RTB
DATE - 03/19/2018

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

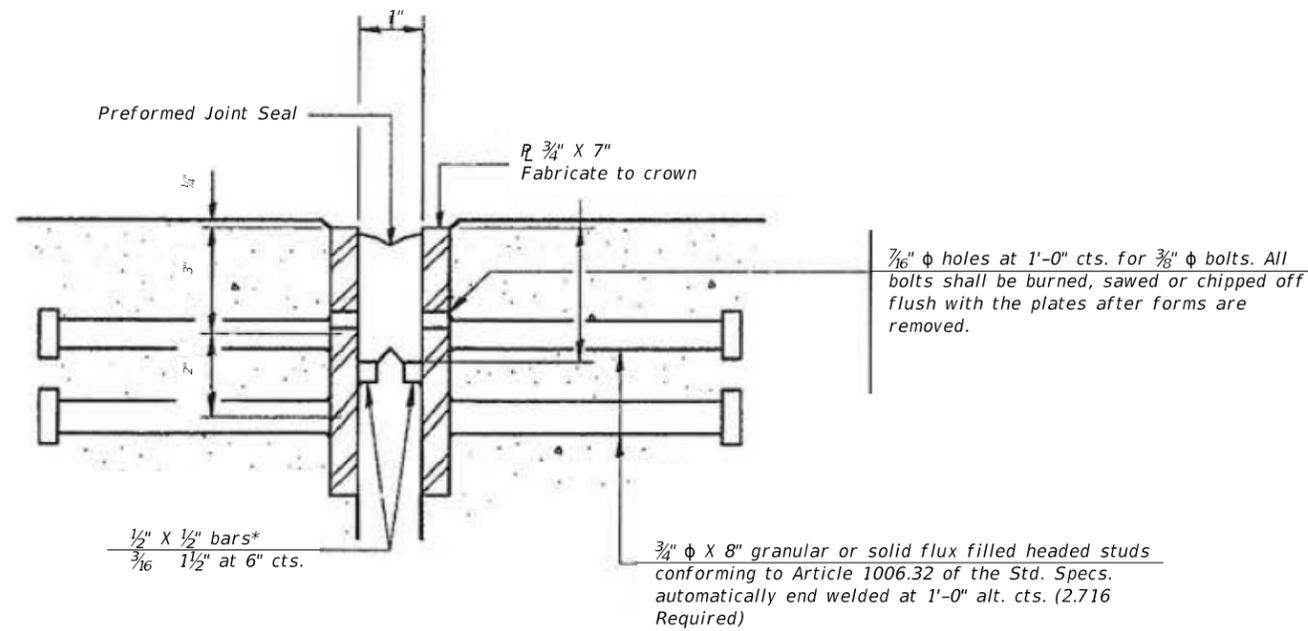
JOINT REPAIR SECTIONS
I-9094 OVER 16TH ST TO 18TH ST SN 016-1111

SCALE: SHEET S11-3 OF S11-9 SHEETS STA. TO STA.

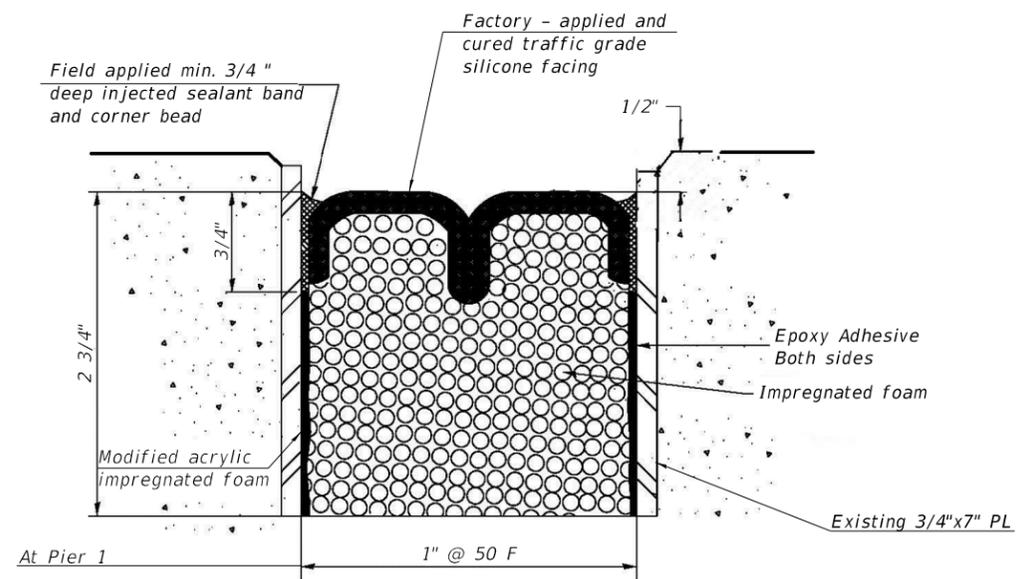
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	67
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

TABLE 1

STRUCTURE	PIER	X	Y	Z
016-1111	E5 / ABUT.	1'-0"	1'-5"	0"
016-1111	D7 / ABUT.	1'-0"	1'-5"	0"

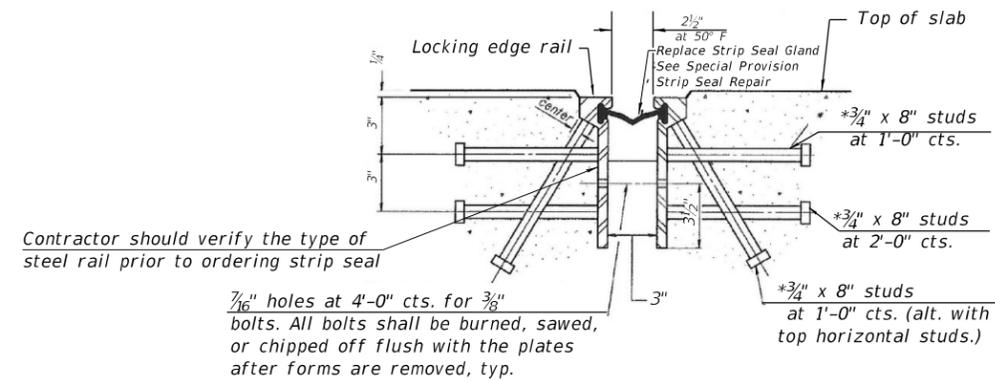


EXISTING PREFORMED JOINT SEAL SECTION AT PIER 1



PROPOSED PBJS JOINT SEAL AT SB PIERS 1 AND NB PIERS 1

Note: The new joint shall be a "Preformed, Pre-compressed, Silicone Coated, Self-Expanding Sealant System" and paid for as Preformed Joint Seal. See special provision "Preformed Bridge Joint Seal" (PBJS).



PROPOSED NEW STRIP SEAL GLAND SECTION AT ABUTMENTS E5 & D7

FILE PATH = F:\1710-746 IDOT District 1\NO 2 Den Rgn B-ridge Repairs\Sheet Files\SN 016-1111\016111-004-Joint Repair Details.dgn



016111-004-Joint Repair Details.dgn
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 PLOT SCALE =
 PLOT DATE = 5/2/2018

DESIGNED - EBK
 DRAWN - EBK
 CHECKED - RTB
 DATE - 03/19/2018

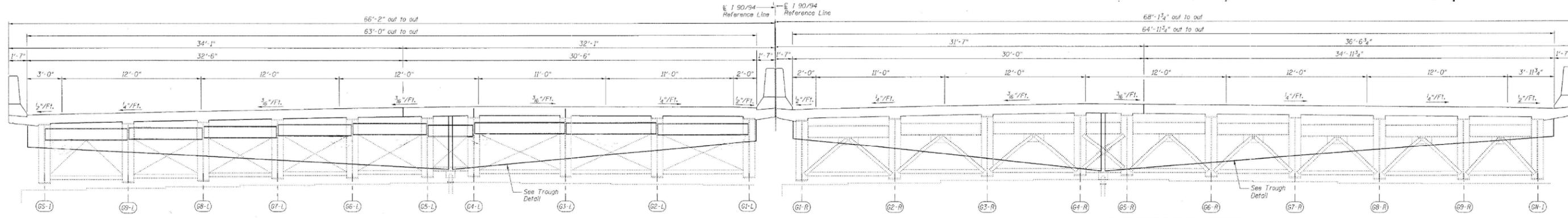
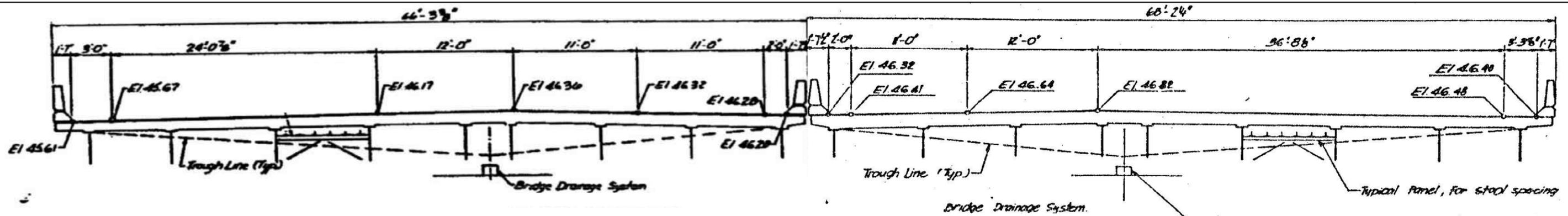
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STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

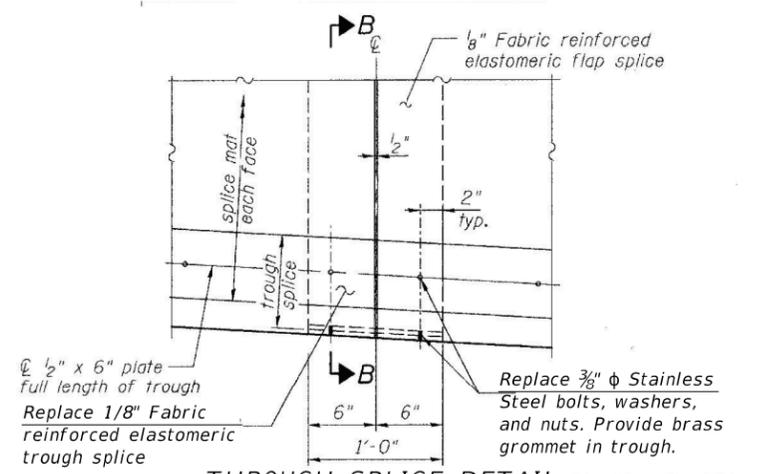
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 I-9094 OVER 16TH ST TO 18TH ST SN 016-1111

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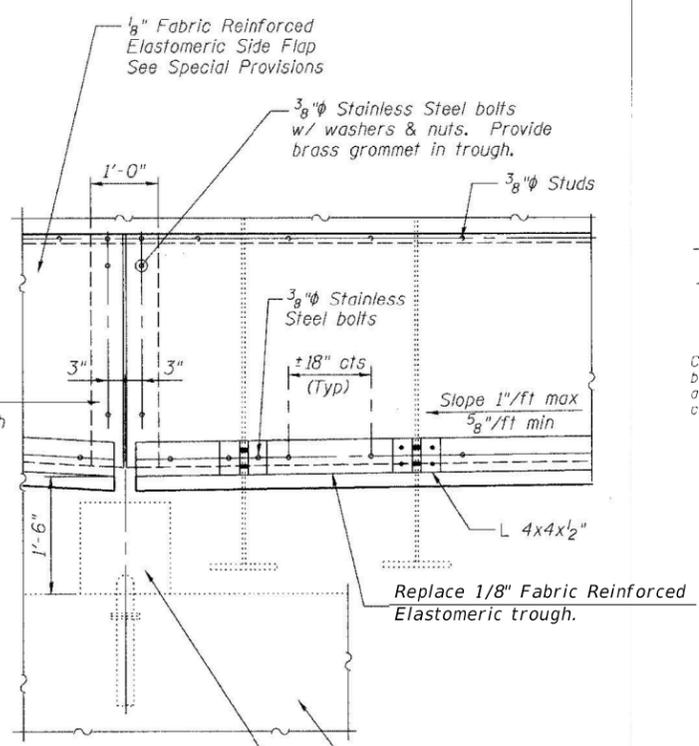
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94	2018-008-BJR	COOK	133	68
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



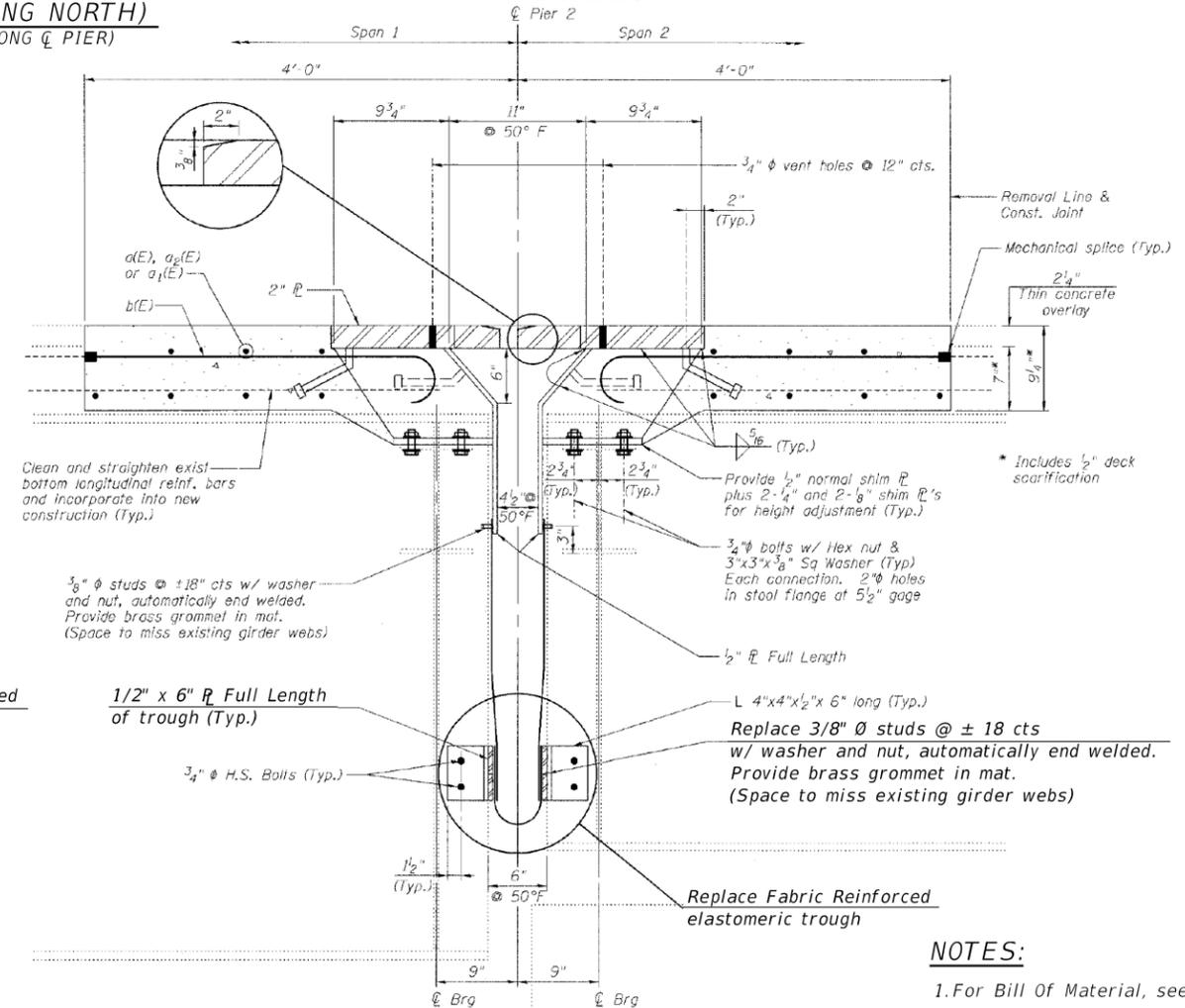
ELEVATION (LOOKING NORTH)
(DIMENSIONS ARE ALONG \bar{C} PIER)



THROUGH SPLICE DETAIL



TROUGH DETAIL



NOTES:
1. For Bill Of Material, see sheet S11-6

FILE PATH = P:\1710-746 IDOT District 1\NO 2 Den Rgn B-ridge Repairs\Sheet Files\SN 016-1111\016111-005-Pier02 FPJ Replacement.dgn



016111-005-Pier02 FPJ Replacement.dgn
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PLOT SCALE =
PLOT DATE = 5/2/2018

DESIGNED - AI
DRAWN - AI
CHECKED - RTB
DATE - 03/19/2018
REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

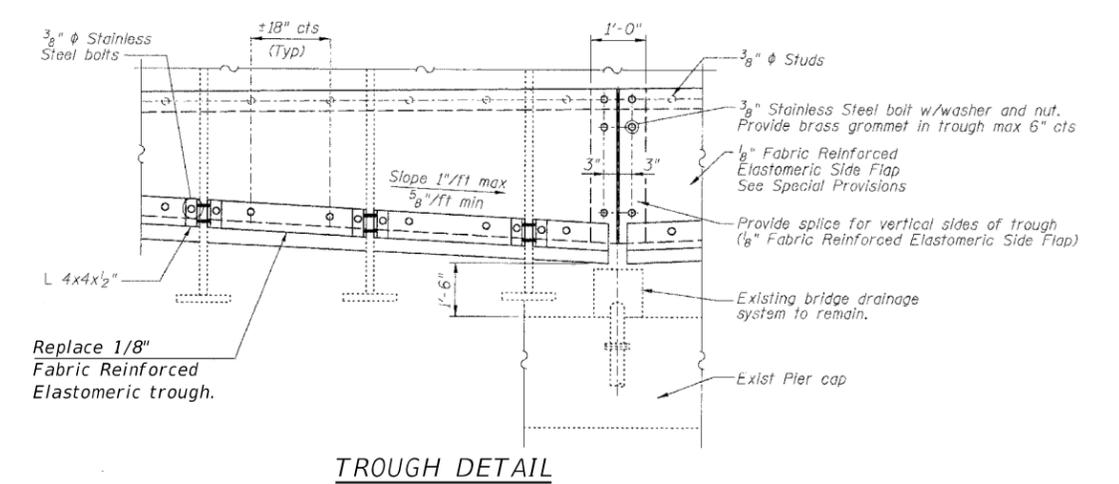
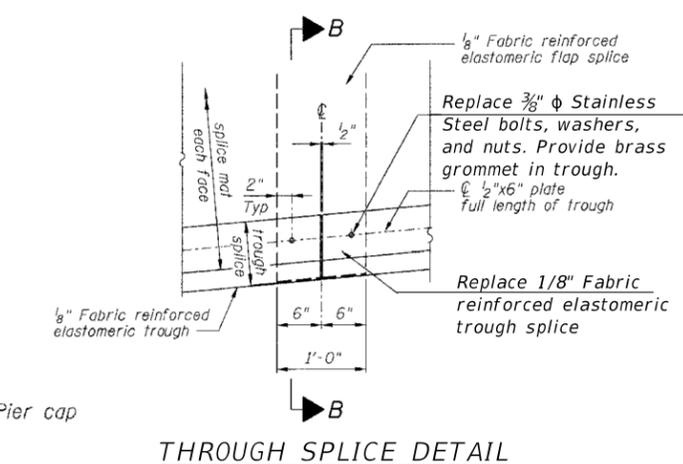
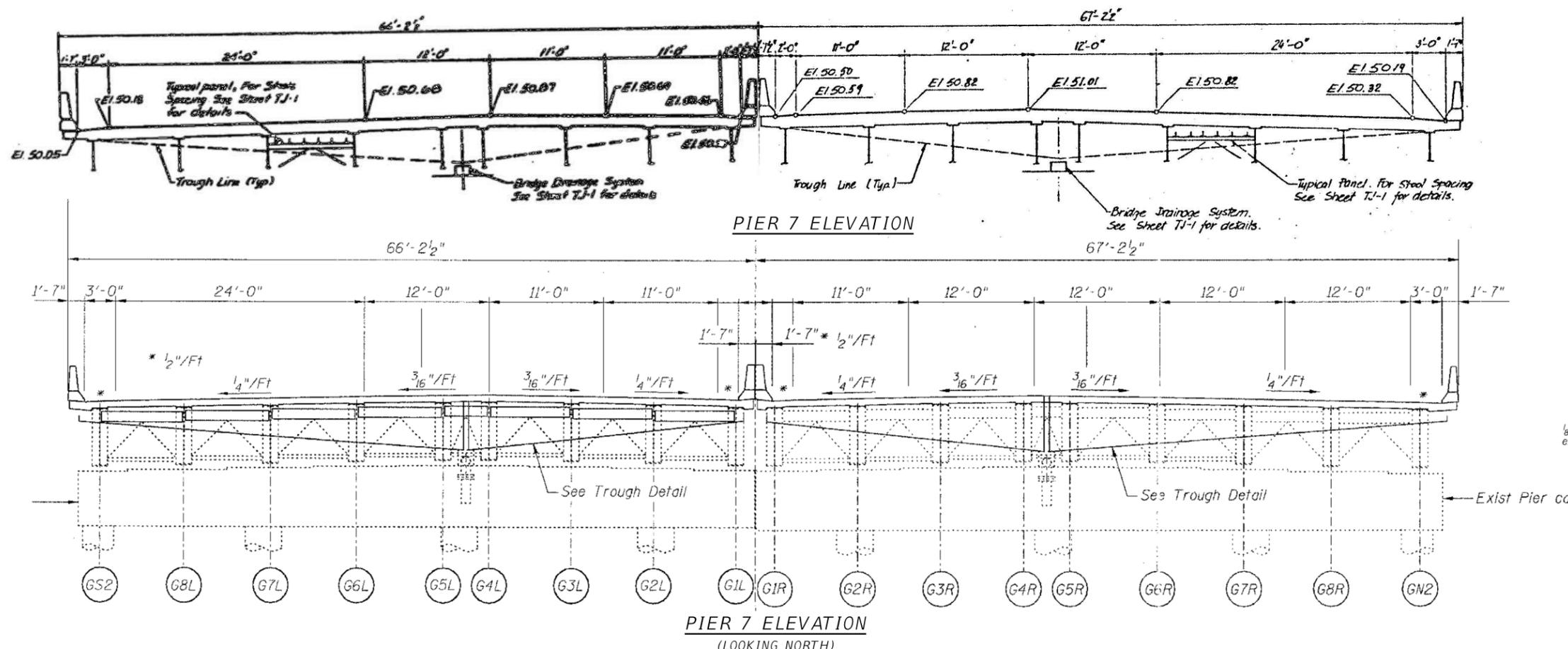
PIER 02 FINGER PLATE JOINT REPAIR SECTIONS AND DETAILS
I-9094 OVER 16TH ST TO 18TH ST SN 016-1111

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	69
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET S11-5 OF S11-9 SHEETS STA. TO STA.

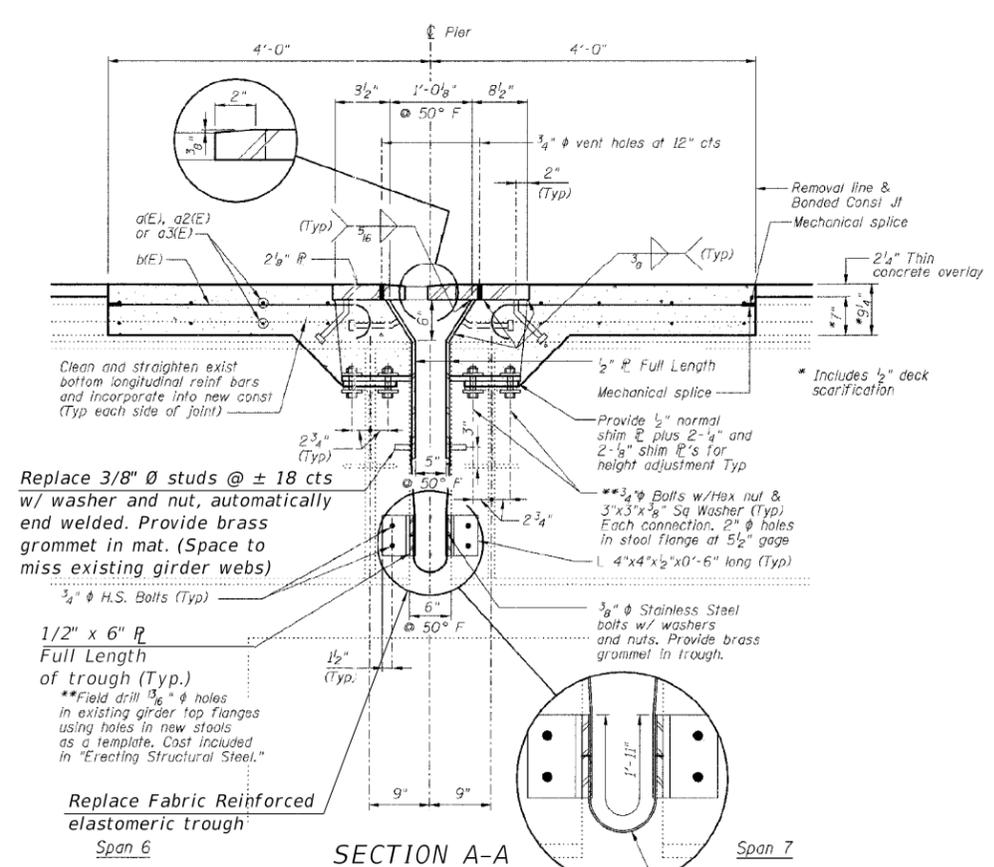
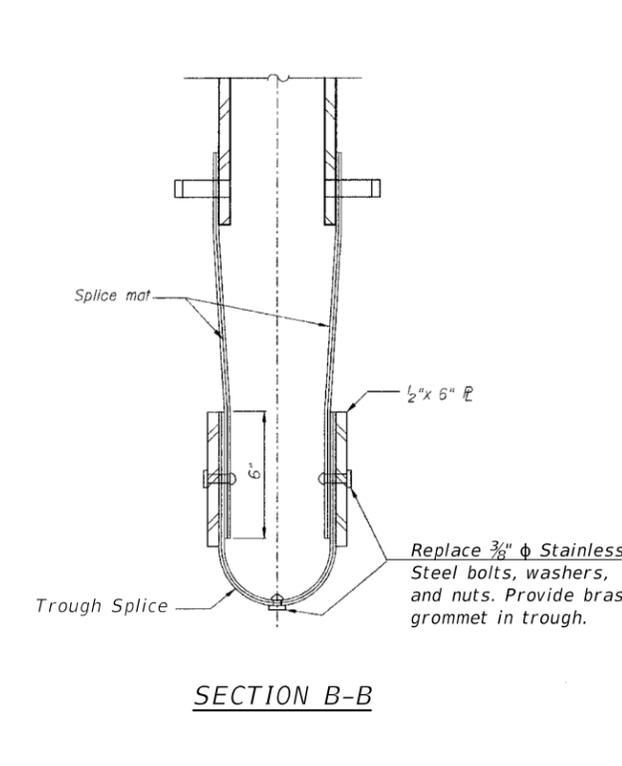
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	FOOT	267



NOTES:

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



FILE PATH = P:\1710-746 IDOT District 1\NO 2 Den Rgn Br-idge Repairs\Sheet Files\SN 016-1111\016111-006-Pier07 FPJ Replacement.dgn



016111-006-Pier07 FPJ Replacement.dgn
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 PLOT SCALE =
 PLOT DATE = 5/2/2018

DESIGNED - AI
 DRAWN - AI
 CHECKED - RTB
 DATE - 03/19/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

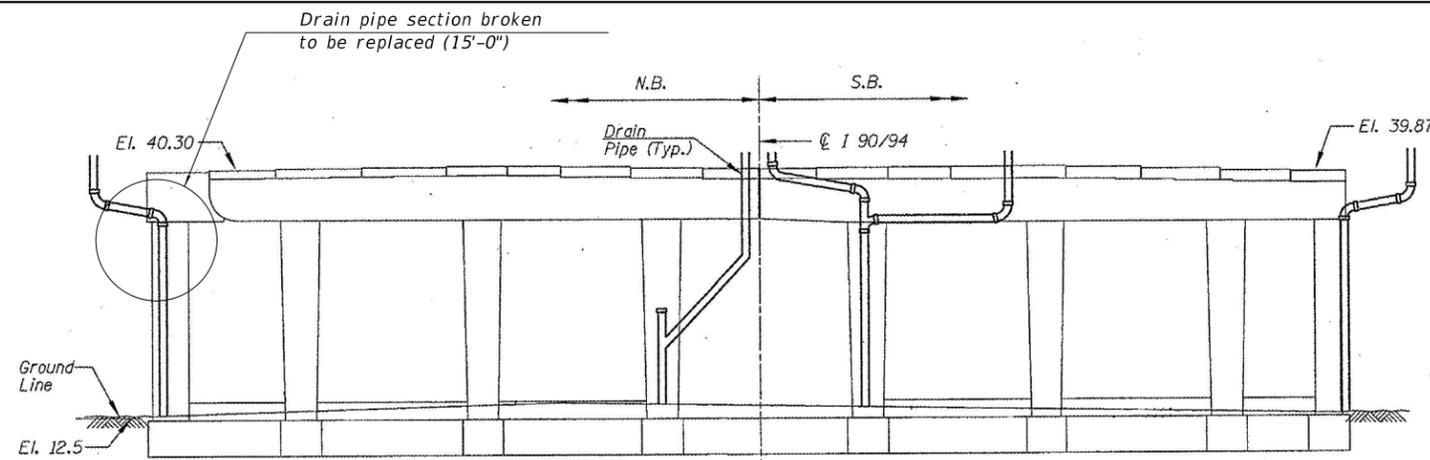
PIER 1 FINGER JOINT REPAIR SECTIONS AND DETAILS
 I-90/94 OVER 16TH ST TO 18TH ST SN 016-1111

SCALE: SHEET S11-6 OF S11-9 SHEETS STA. TO STA.

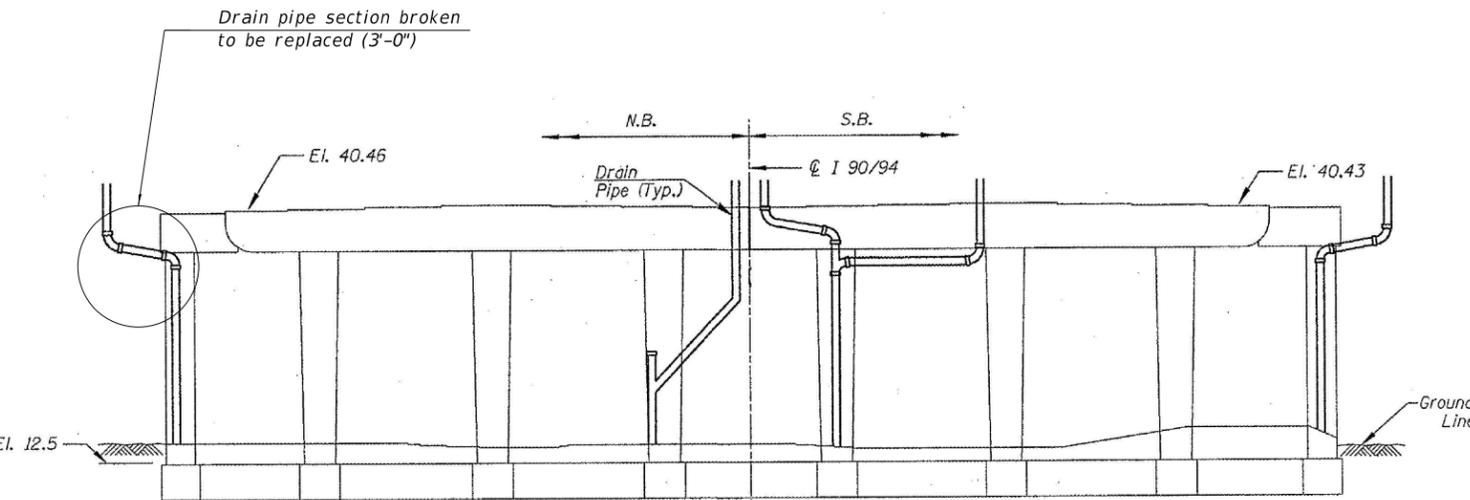
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94	2018-008-BJR	COOK	133	70
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

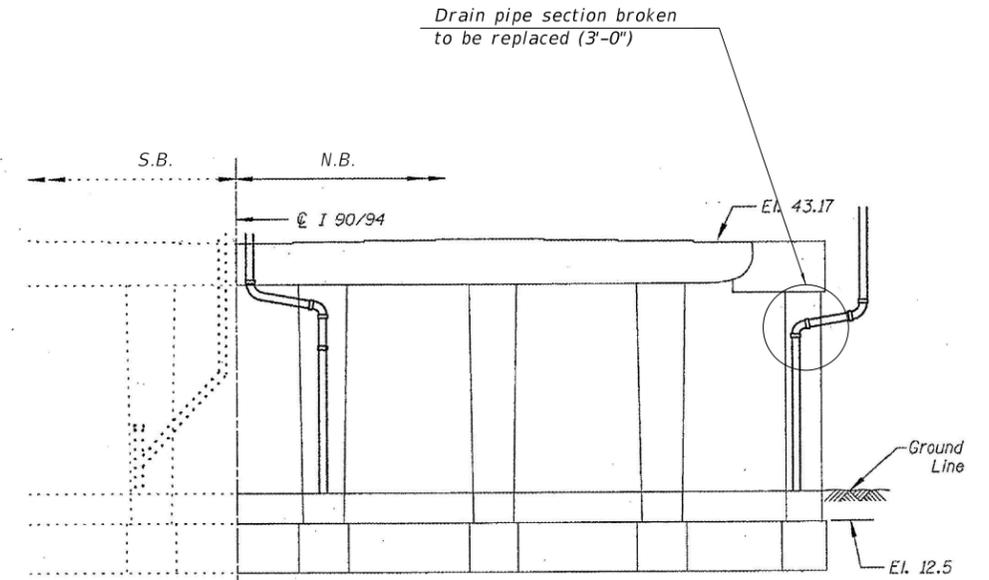
ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	FOOT	75



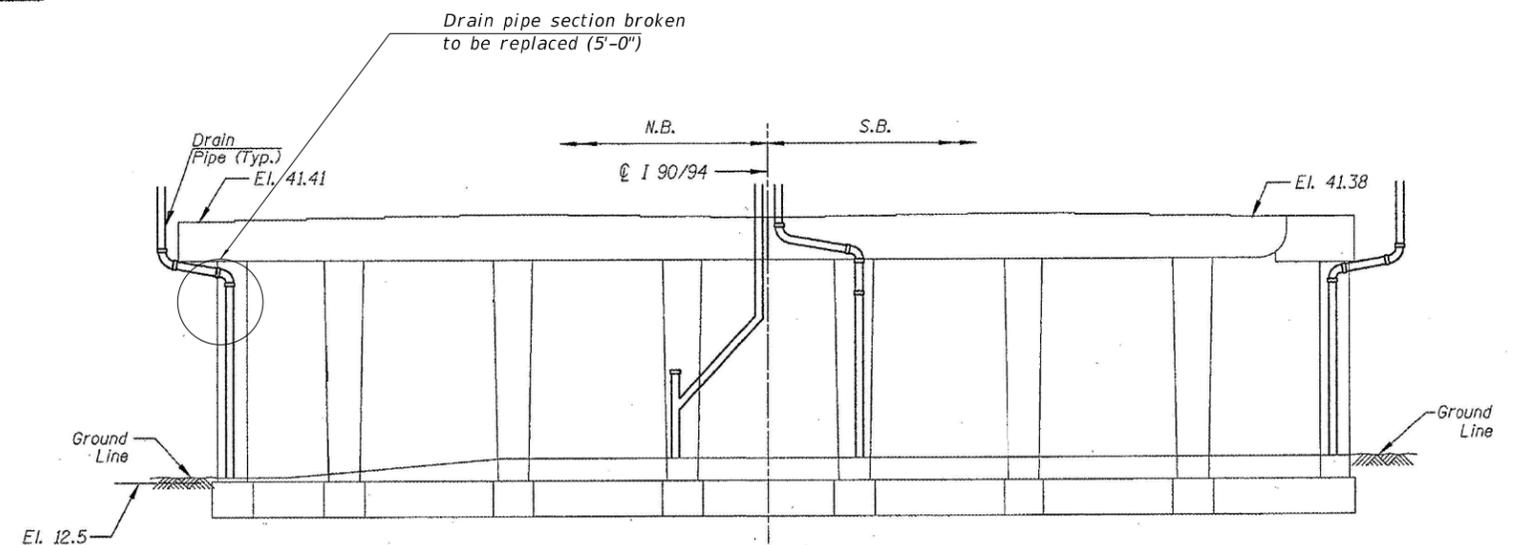
PIER 2- NORTH ELEVATION
(LOOKING SOUTH)



PIER 3- NORTH ELEVATION
(LOOKING SOUTH)



PIER 5 - SOUTH ELEVATION
(LOOKING NORTH)



PIER 4- NORTH ELEVATION
(LOOKING SOUTH)

DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
2. 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.
3. When existing drain pipes are wrapped with tape, the tape shall be removed, if the pipe is broken or missing a connection, the pipe shall be replaced or otherwise new tape shall be provided. The type of tape shall be approved by the Engineer. The cost shall be included in "Bridge Drainage System Repairs" and the length measured shall be the length of the pipe replaced or length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see General Plan and Elevation Sheet.



016111-007-Downspout Repairs Pier 2, 3, 4 and 5.dgn
 USER NAME = ahmed.jissa
 PLOT SCALE =
 PLOT DATE = 5/2/2018

DESIGNED - DA
 DRAWN - HI
 CHECKED - RTB
 DATE - 03/19/2018

REVISED -
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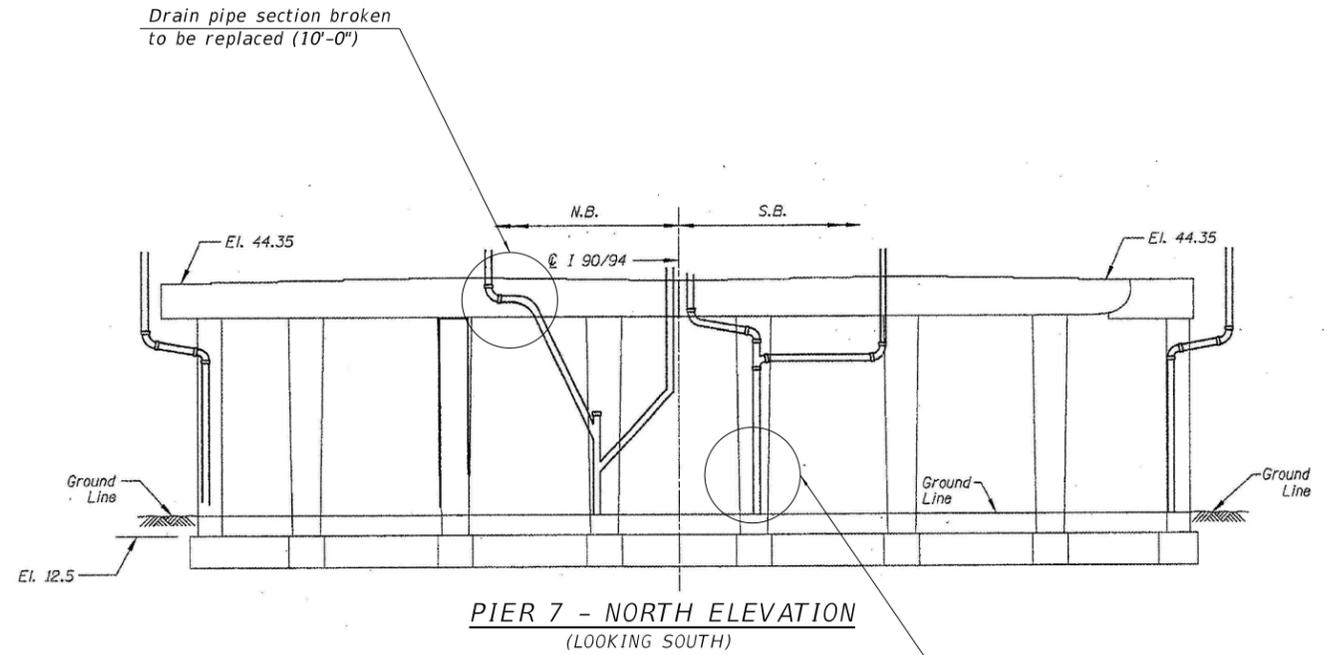
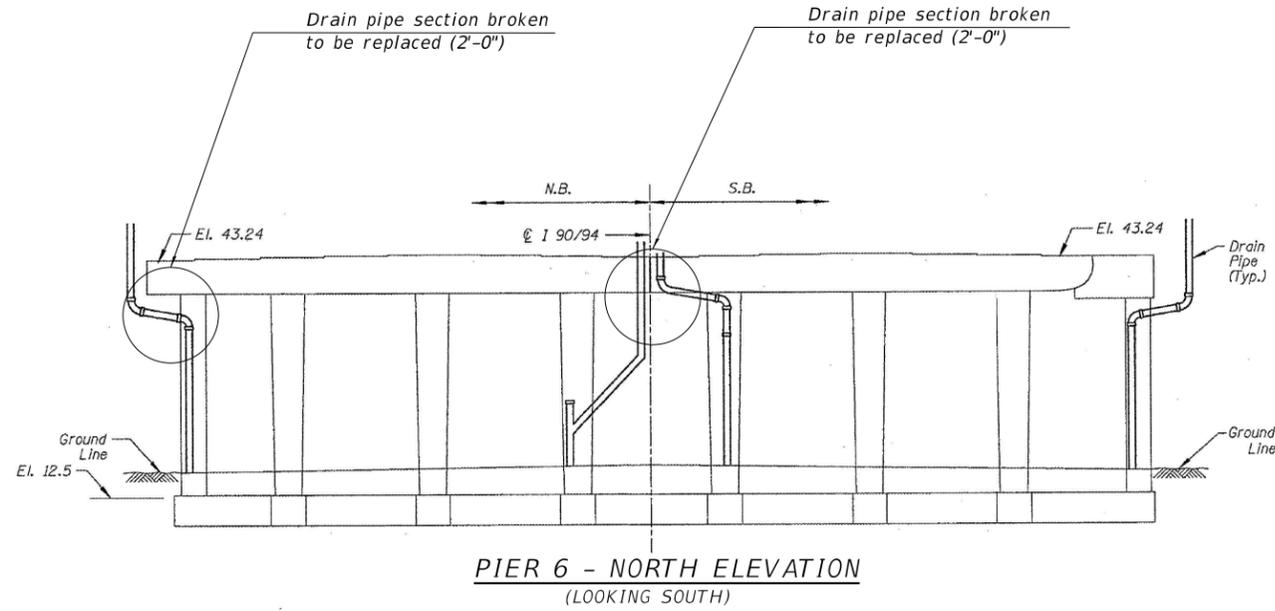
STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

DOWNSPOUT REPAIRS PIERS 2, 3, 4, AND 5
I-90/94 OVER 16TH ST TO 18TH ST SN 016-1111

SCALE: SHEET S11-7 OF S11-9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	71
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

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DRAINAGE REPAIR NOTES

- For notes and Bill Of Material, see sheet S11-7.

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016111-008-Downspout Repairs Pier 6 and 7.dgn
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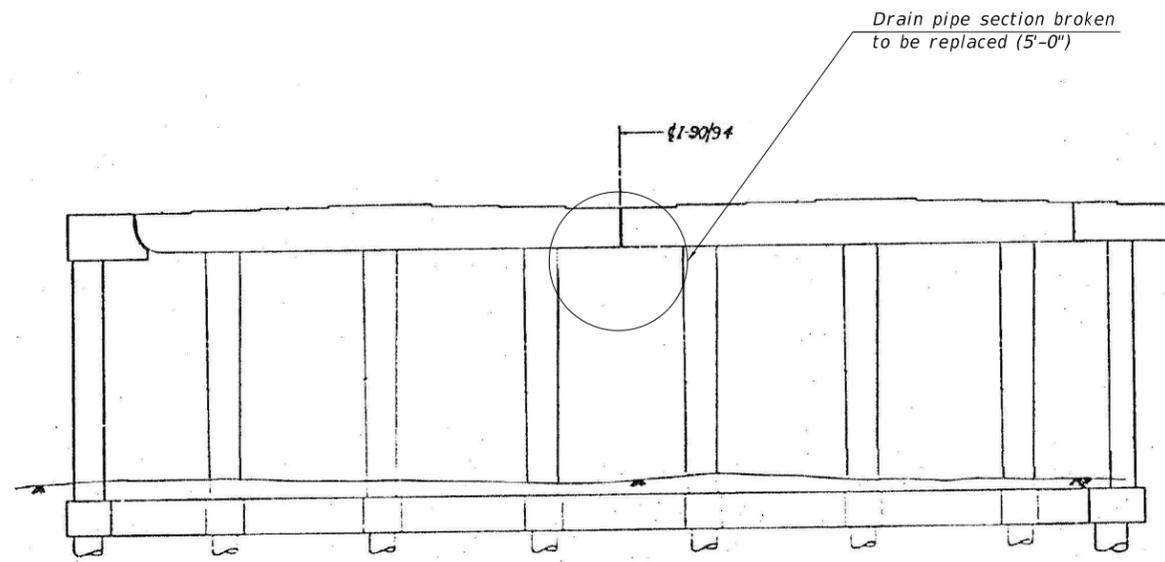
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DATE - 03/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

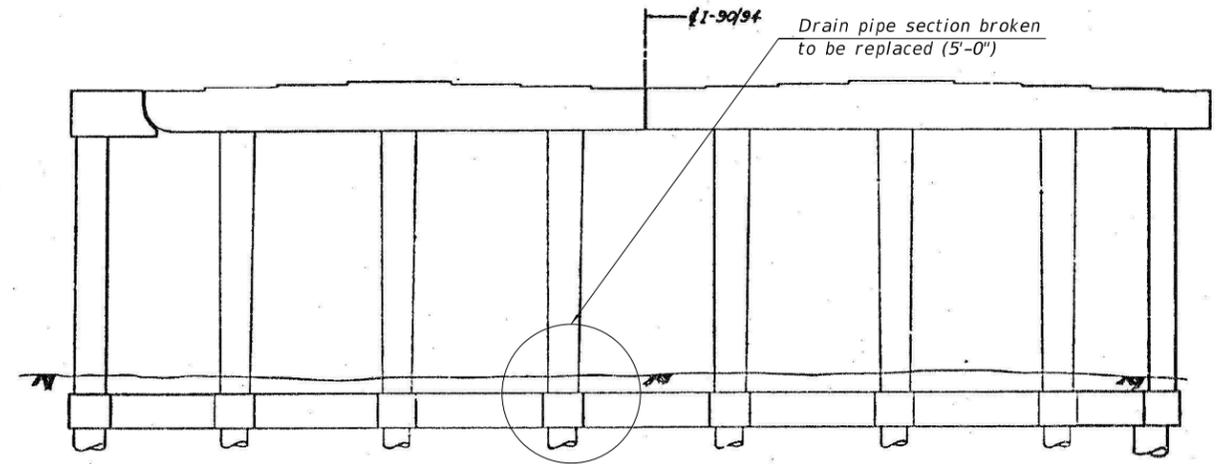
DOWNSPOUT REPAIRS PIER 6 AND 7
I-90/94 OVER 16TH ST TO 18TH ST SN 016-1111

SCALE: SHEET S11-8 OF S11-9 SHEETS STA. TO STA.

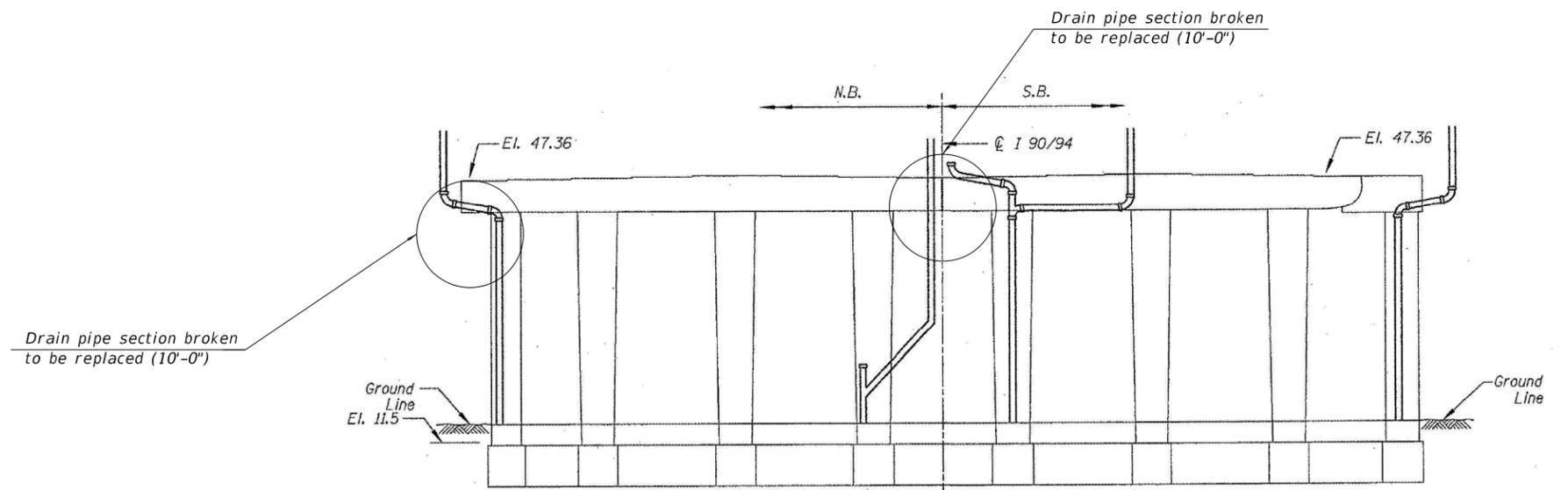
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	72
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



PIER 8
(LOOKING NORTH)



PIER 9
(LOOKING NORTH)



PIER 10
(LOOKING NORTH)

DRAINAGE REPAIR NOTES

- For notes and Bill Of Material, see sheet S11-7 .

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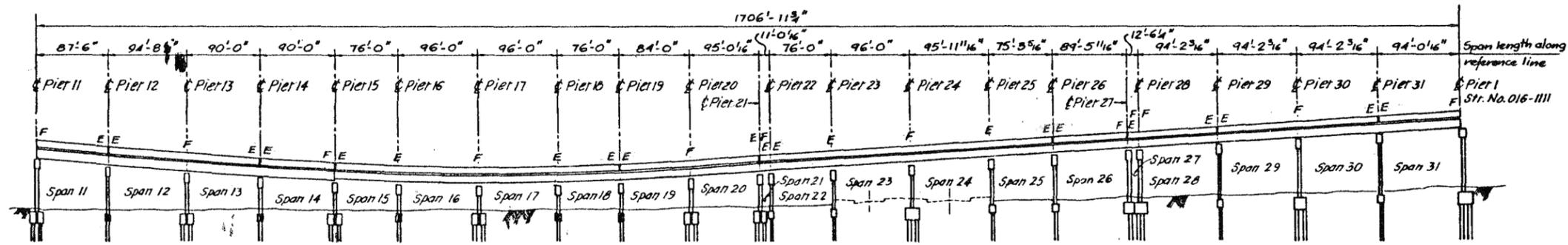
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PLOT SCALE =	CHECKED - RTB	REVISED -
PLOT DATE = 5/2/2018	DATE - 03/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

DOWNSPOUT REPAIRS PIERS 8, 9, AND 10
I-90/94 OVER 16TH ST TO 18TH ST SN 016-1111

SCALE: SHEET S11-9 OF S11-9 SHEETS STA. TO STA.

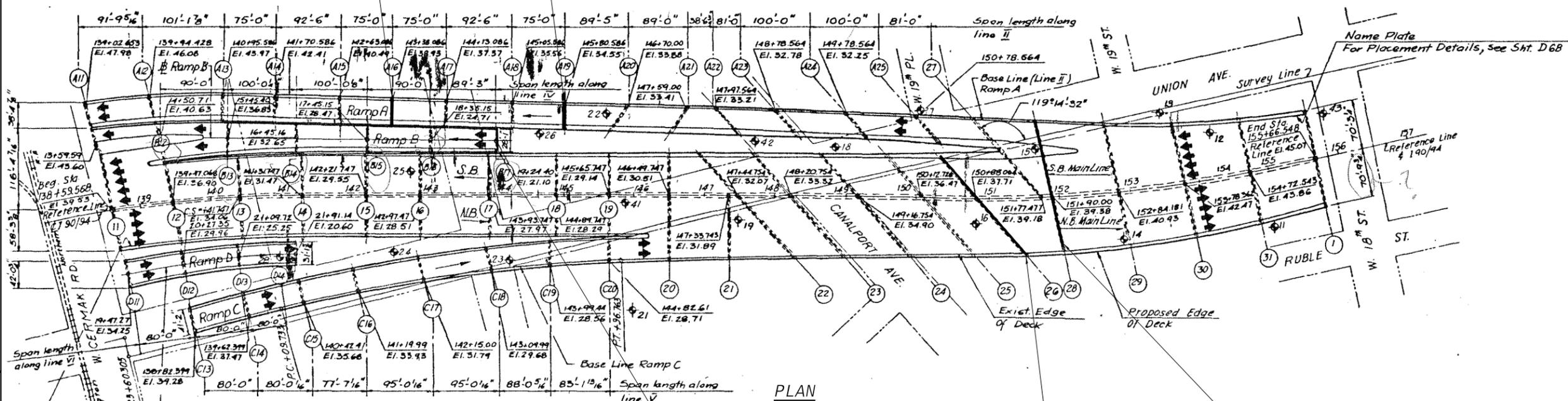
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94	2018-008-BJR	COOK	133	73
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



ELEVATION

Remove and replace existing Strip Seal Gland
Pier A16 SB: 36'-0"

Remove and replace existing Strip Seal Gland
Pier A19 SB: 36'-0"

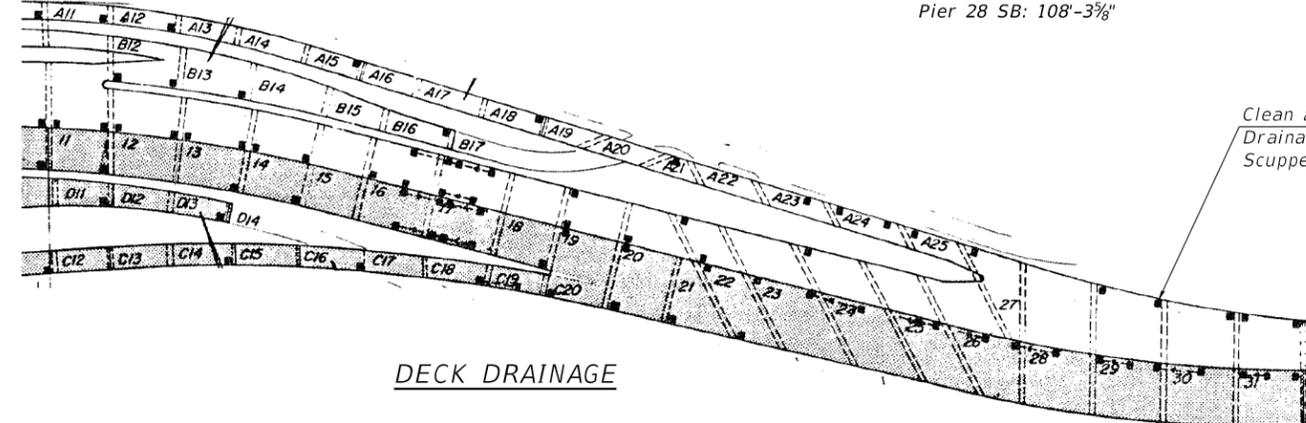


PLAN

Existing PJS to be removed and replaced with new PBJS
Pier B17 SB: 25'-11"

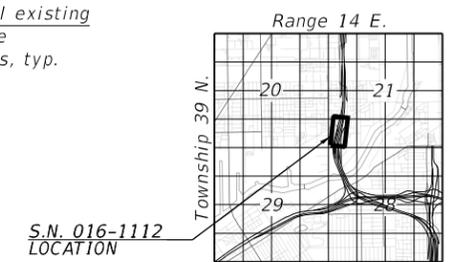
Remove and replace existing Strip Seal Gland
Pier 26 NB: 104'-2"
Pier 26 SB: 81'-1 3/4"

Existing PJS to be removed and replaced with new PBJS
Pier 28 NB: 80'-1 1/4"
Pier 28 SB: 108'-3 3/8"



DECK DRAINAGE

Clean all existing Drainage Scuppers, typ.



LOCATION SKETCH



0161112-001-GPE.dgn
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PLOT SCALE =
PLOT DATE = 5/2/2018

DESIGNED - AI	REVISED -
DRAWN - AI	REVISED -
CHECKED - RTB	REVISED -
DATE - 03/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90/4 OVER 18TH ST TO 22ND ST NO.016-1112

SCALE: SHEET S12-1 OF S12-12 SHEETS STA. TO STA.

F.A.P. RTE. 94	SECTION 2018-008-BJR	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 74
CONTRACT NO. 62C16				
ILLINOIS FED. AID PROJECT				

FILE PATH = P:\1710-746 IDOT District 1\NO 2 Den Rgn B-ridge Repairs\Sheet Files\SN 016-1112\0161112-001-GPE.dgn

GENERAL NOTES:

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

SN 016-1112 SCOPE OF WORK

1. Remove and replace Strip Seal Glands at NB Pier 26, SB Pier 26, SB Pier A16 and SB Pier A19.
2. Remove and replace the existing 4" PJS with the new Performed Bridge Joint Seal (PBJS) covered in the Special Provisions at NB Pier 28, SB Pier 28 and SB Pier B17.
3. Remove and replace broken and/or missing Drain pipes at PC17 East Side, PD12 East Side, Pier 12 East Side, Span 16 West Side, Pier 18 Center, Span 18 East Side, Pier 21 East Side, Pier 24 Center, PA25 West Side, Span 25 Center, Pier 29 Center, Pier 31 Center, and Pier 31 West Side.
4. Perform partial depth deck repairs at NB Left Lane of Ramp, NB Lane 5 and NB Lane 4.
5. Clean all existing Drainage Scuppers.
6. Remove and replace existing fence with an ornamental fence.

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF DRAWINGS

S12-1	General Plan and Elevation
S12-2	General Notes, Index of Sheets and Total Bill Of Material
S12-3	Joint Repair Elevations
S12-4	Joint Replacement Details
S12-5	Bridge Deck Patching Plan
S12-6	Downspout Repairs Pier 12, 16 and 17
S12-7	Downspout Repairs Pier 18, 21 and 24
S12-8	Downspout Repairs Pier 25
S12-9	Downspout Repairs Pier 29 and 31
S12-10	Ornamental Fence Installation Sheet 1 of 3
S12-11	Ornamental Fence Installation Sheet 2 of 3
S12-12	Ornamental Fence Installation Sheet 3 of 3

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Clean Drainage Scuppers and Downspouts	Each	82
Bridge Drainage System Repairs	FOOT	88
Ornamental Fence	FOOT	2700
Deck Slab Repair (Partial)	SQ YD	9
Performed Joint Seal, 1"	FOOT	191
Performed Joint Seal, 3"	FOOT	28
Strip Seal Gland Replacement	FOOT	257

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PLOT DATE = 5/2/2018	DATE - 03/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIAL
I-90/94 OVER 18TH ST TO 22ND ST NO.016-1112

SCALE: SHEETS 12-2 0612-12 SHEETS STA. TO STA.

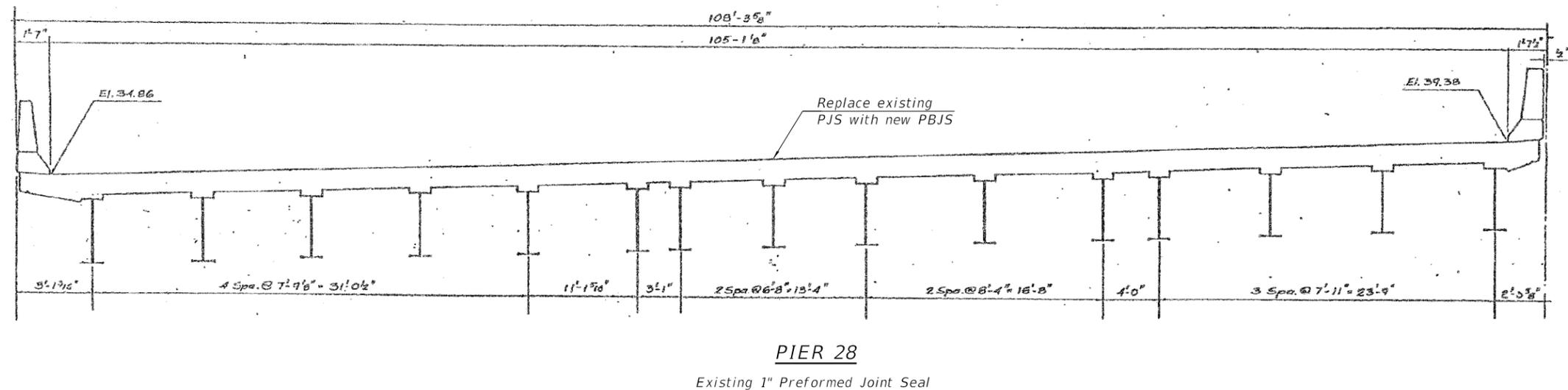
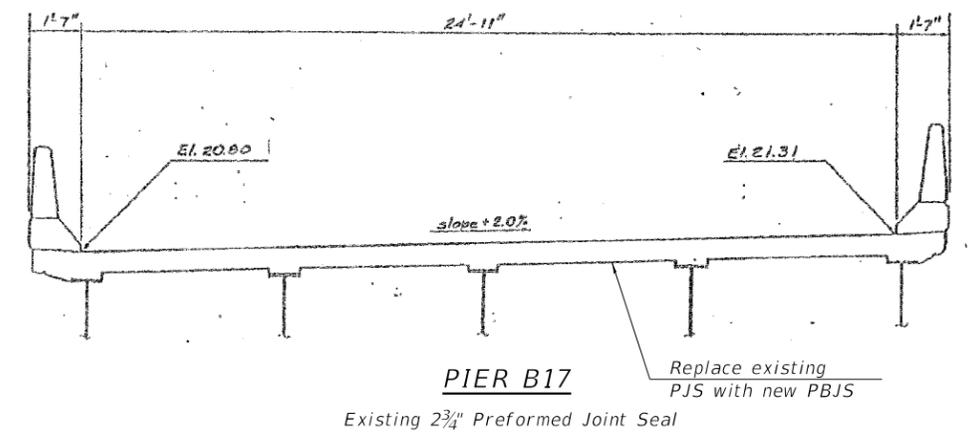
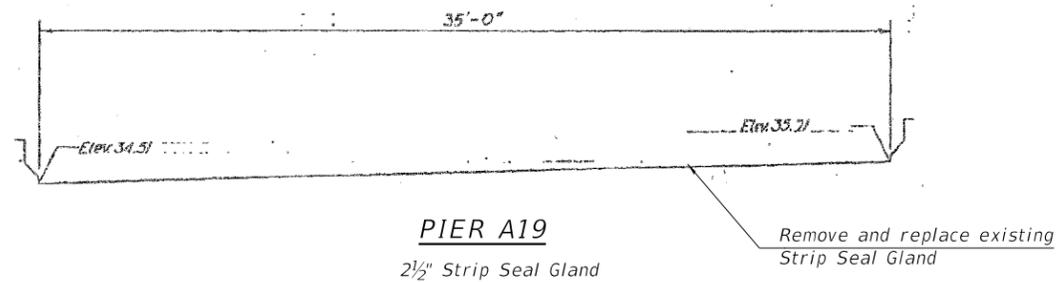
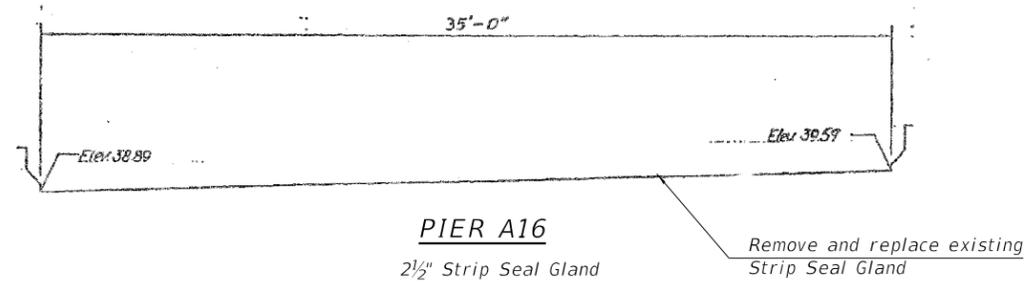
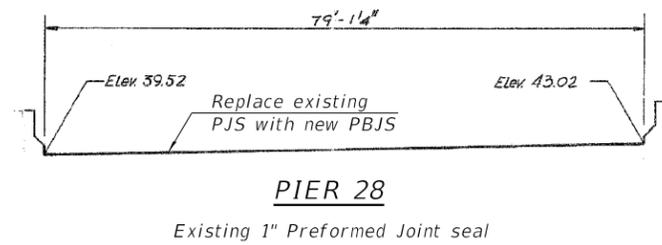
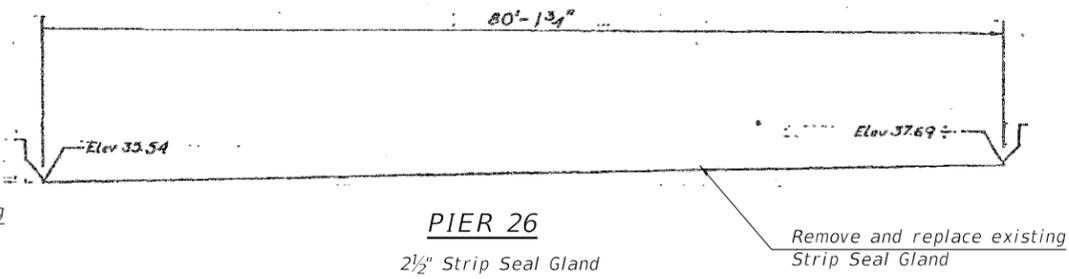
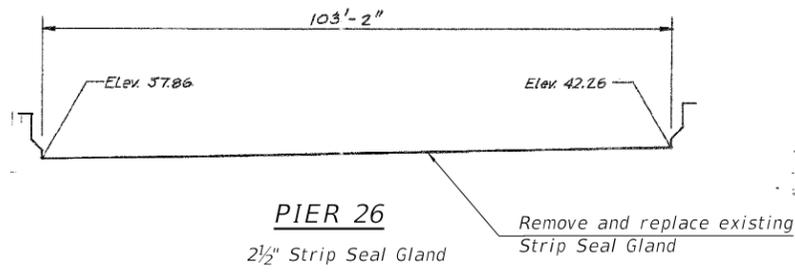
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94	2018-008-BJR	COOK	133	75
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

NORTH BOUND

SOUTH BOUND

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Preformed Joint Sealer, 1"	FOOT	191
Preformed Joint Sealer, 3"	FOOT	28
Strip Seal Gland Replacement	FOOT	257



FILE PATH = F:\1710-746 IDOT District 1\NO 2 Den Rgn Bridge Repairs\Sheet Files\SN 016-1112\0161112-003-Joint Repair Elev.dgn



0161112-003-Joint Repair Elev.dgn
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PLOT DATE = 5/2/2018

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DATE - 03/19/2018

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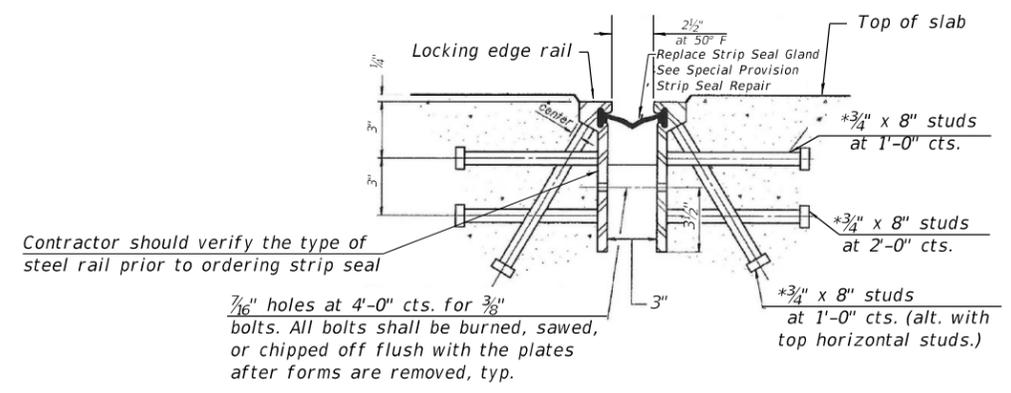
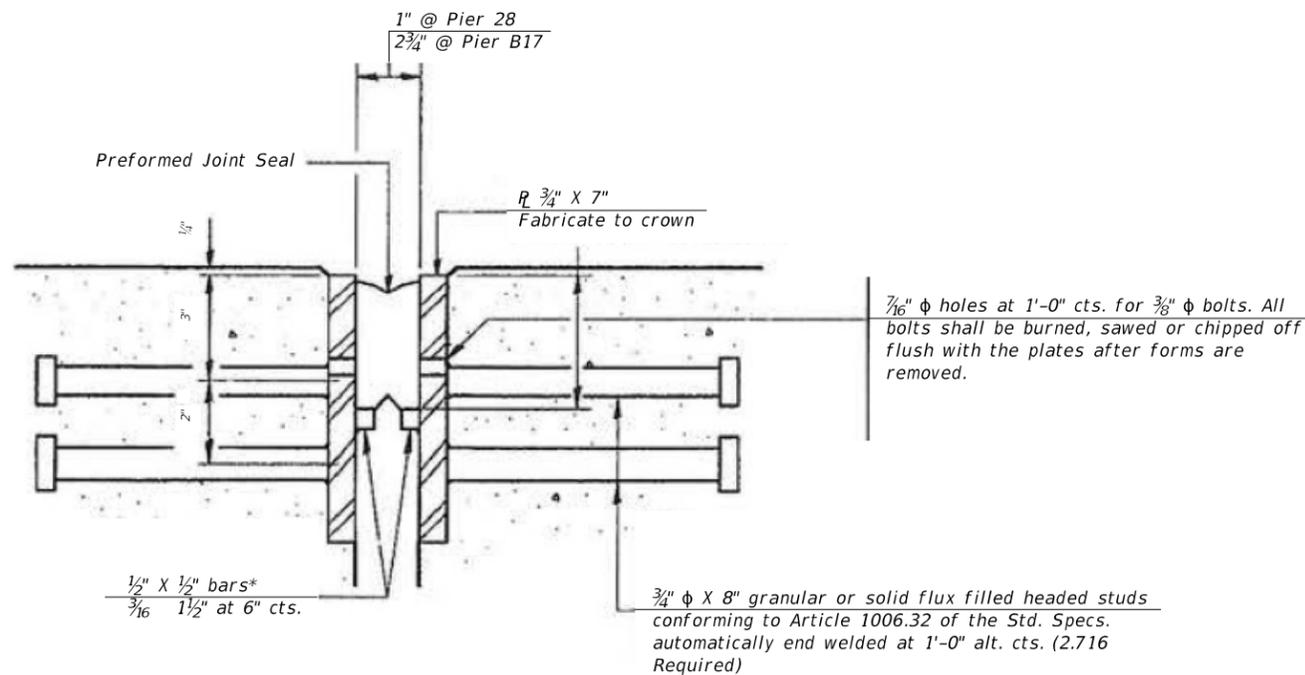
STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

JOINT REPAIR ELEVATIONS
I-90/94 OVER 18TH ST TO 22ND ST SN 016-1112

SCALE: SHEET S12-3 OF S12-12 SHEETS STA. TO STA.

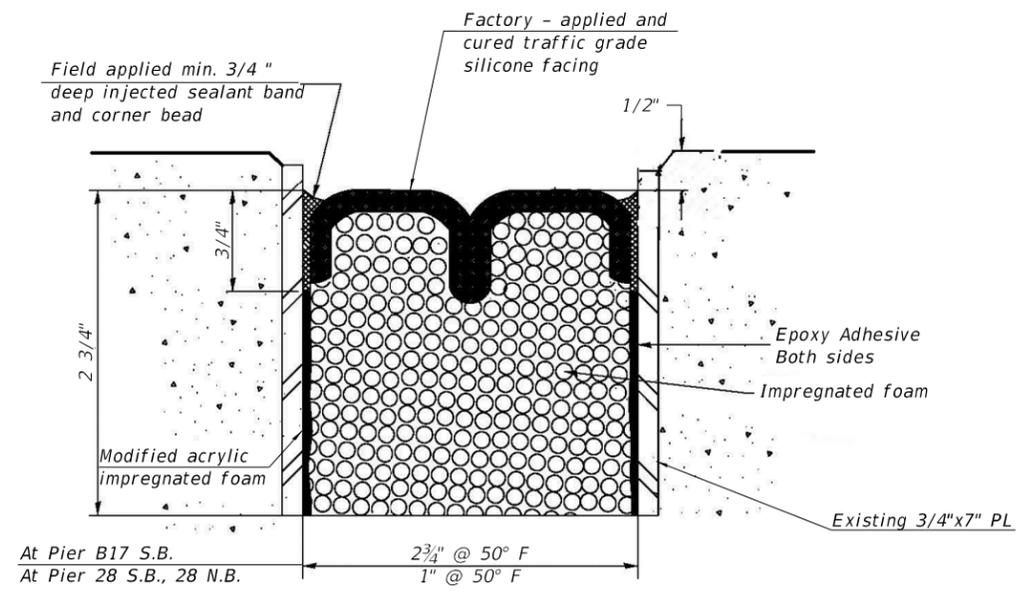
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	76
CONTRACT NO. 62616				

ILLINOIS FED. AID PROJECT



PROPOSED STRIP SEAL GLAND TO BE REPLACED
AT NB PIER 26, SB PIER 26, SB PIER A16 AND SB PIER A19

SECTION THRU EXISTING PREFORMED JOINT SEAL



PROPOSED PBJs JOINT SEAL

Note: The new joint shall be a "Preformed, Pre-compressed, Silicone Coated, Self-Expanding Sealant System" and paid for as Preformed Joint Seal. See special provision "Preformed Bridge Joint Seal" (PBJs).

FILE PATH = F:\1710-746 IDOT District 1\NO 2 Den Rign B-ridge Repairs\Sheet Files\SN 016-1112\0161112-004-Joint Replacement Details.dgn



0161112-004-Joint Replacement Details.dgn
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PLOT SCALE =
PLOT DATE = 5/2/2018

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DRAWN - EBK
CHECKED - RTB
DATE - 03/19/2018

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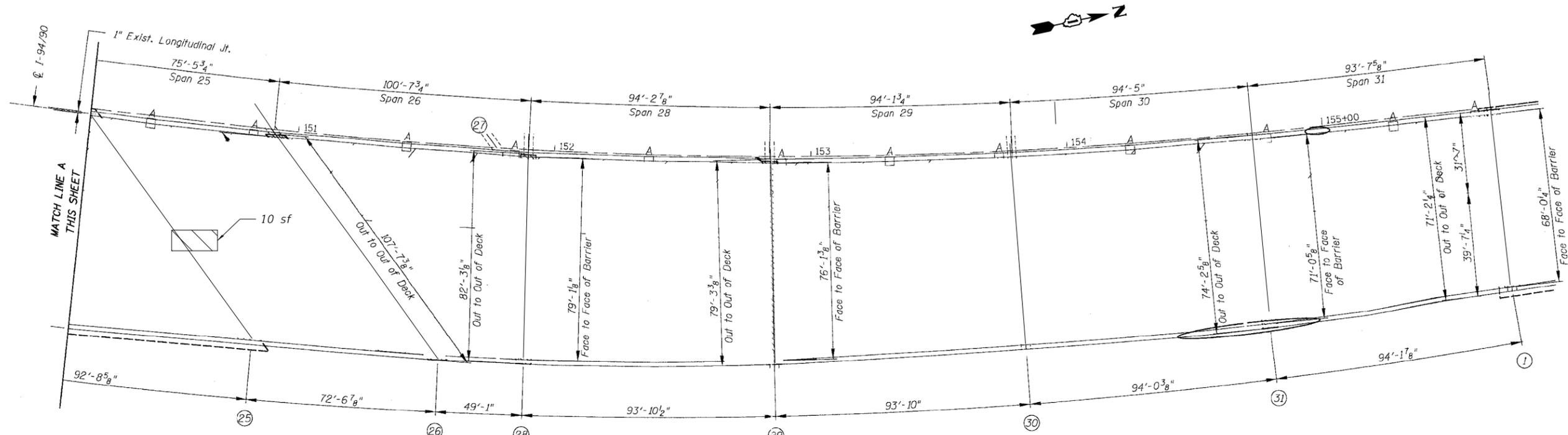
STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

JOINT REPAIR DETAILS
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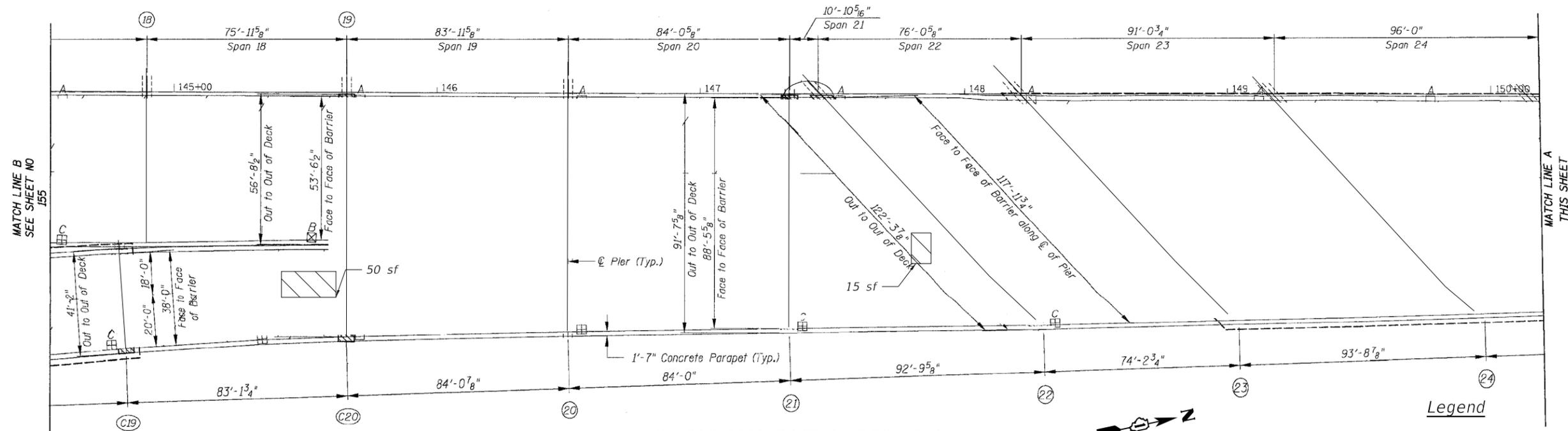
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	77
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	TOTAL QUANTITY
Deck Slab Repair (Partial)	Sq. Yd.	9

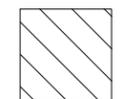


SN 016-1112 PARTIAL DECK PLAN



SN 016-1112 PARTIAL DECK PLAN

Legend



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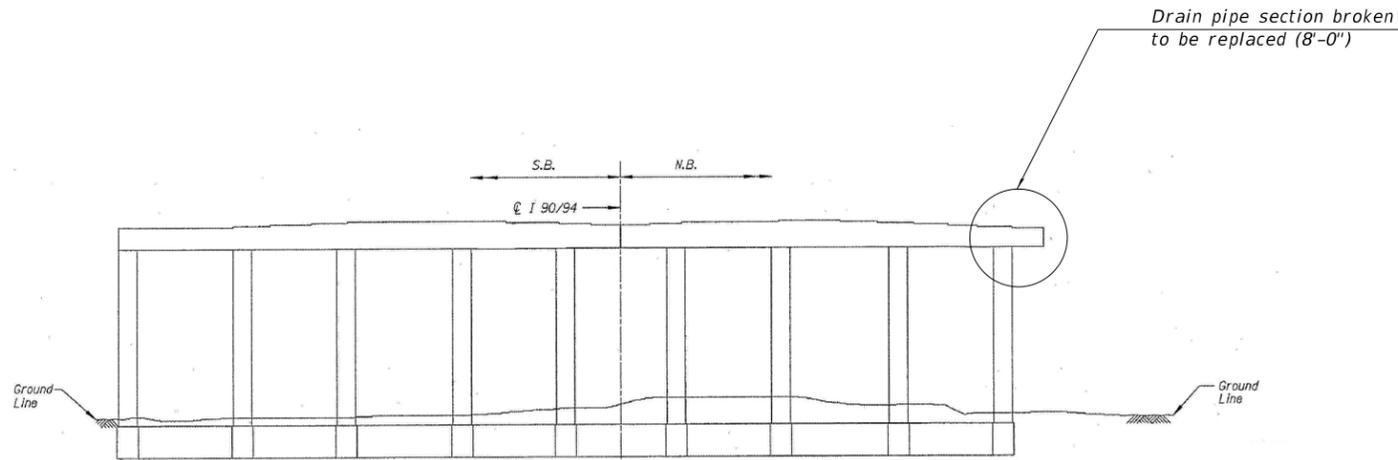
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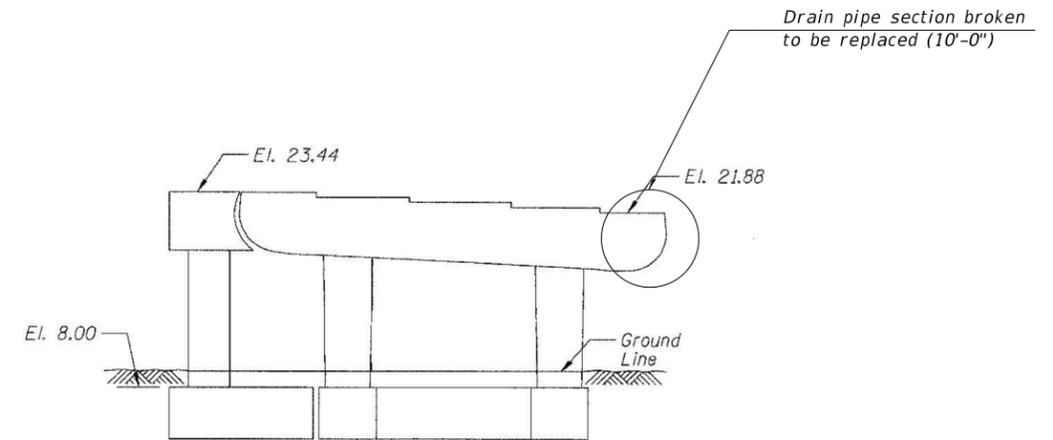
BRIDGE DECK PATCHING PLAN
 I-90/94 OVER 18TH ST TO 22ND ST SN 016-1112

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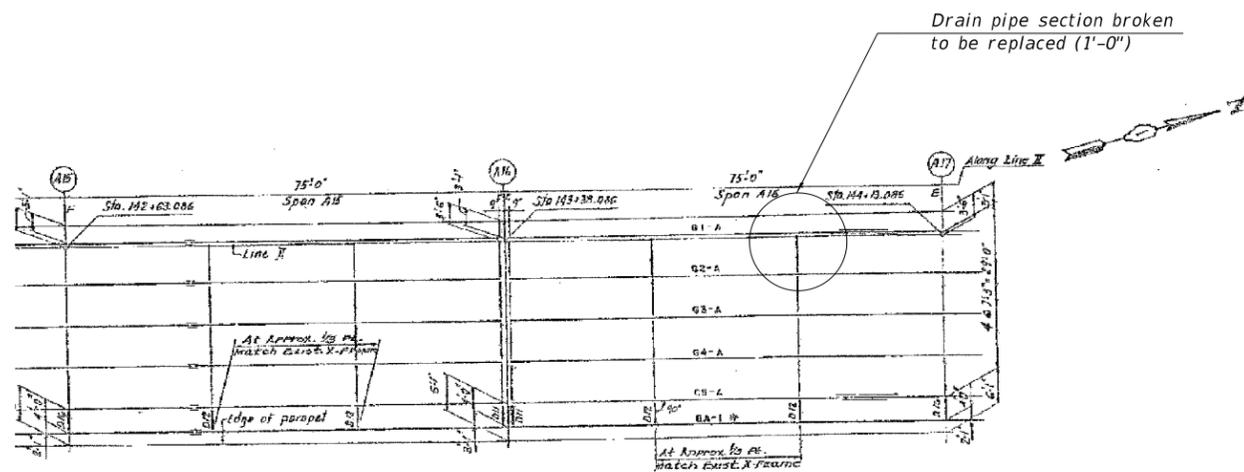
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CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



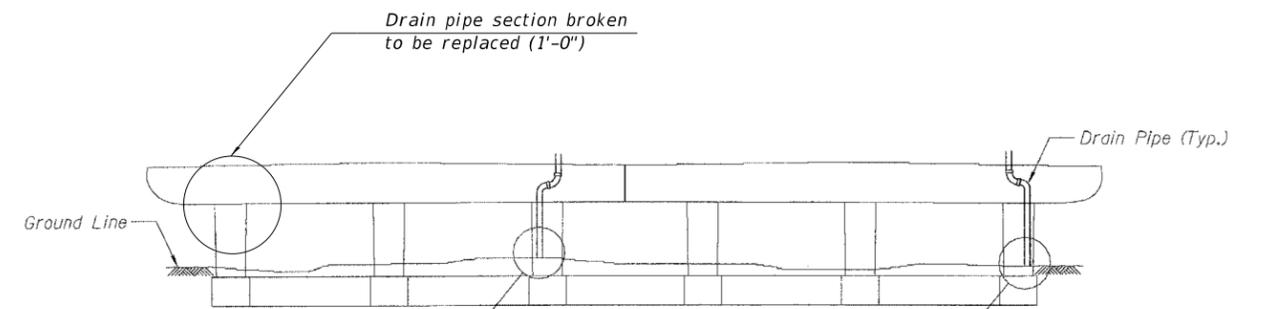
PIER 12 SOUTH ELEVATION
(Looking North)



PIER D-12 SOUTH ELEVATION
(Looking North)



SP 16 WS



PIER 17 NORTH ELEVATION
(Looking South)

DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
2. 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.
3. When existing drain pipes are wrapped with tape, the tape shall be removed, if the pipe is broken or missing a connection, the pipe shall be replaced or otherwise new tape shall be provided. The type of tape shall be approved by the Engineer. The cost shall be included in "Bridge Drainage System Repairs" and the length measured shall be the length of the pipe replaced or length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see General Plan and Elevation Sheet.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	FOOT	88

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0161112-006-Downspout Repairs Pier12,16,17.dgn
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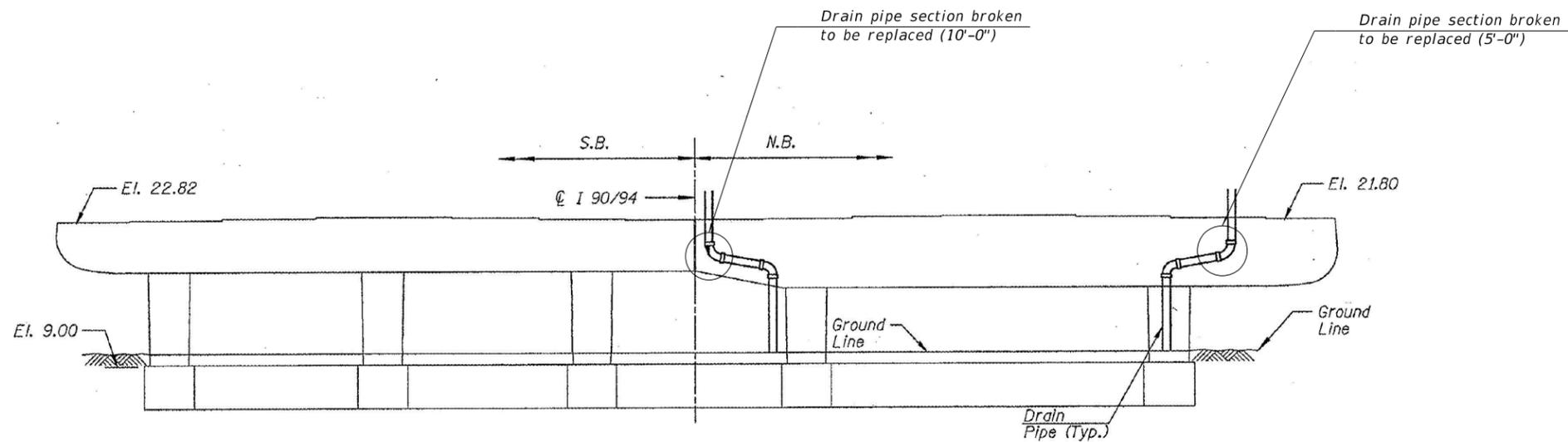
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DATE - 03/19/2018

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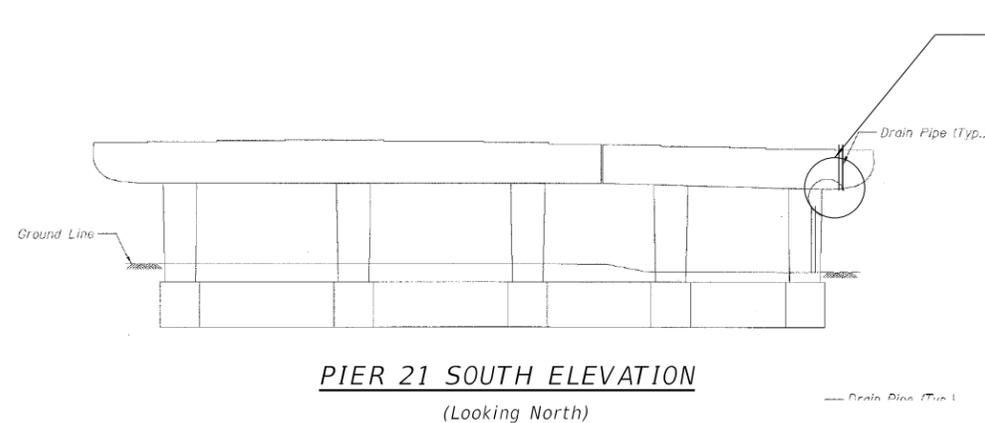
STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

**DOWNSPOUT REPAIRS PIER 12, 16 AND 17
I-90/94 OVER 18TH ST TO 22ND ST SN 016-1112**
SCALE: SHEET S12-6 OF S12-12 SHEETS STA. TO STA.

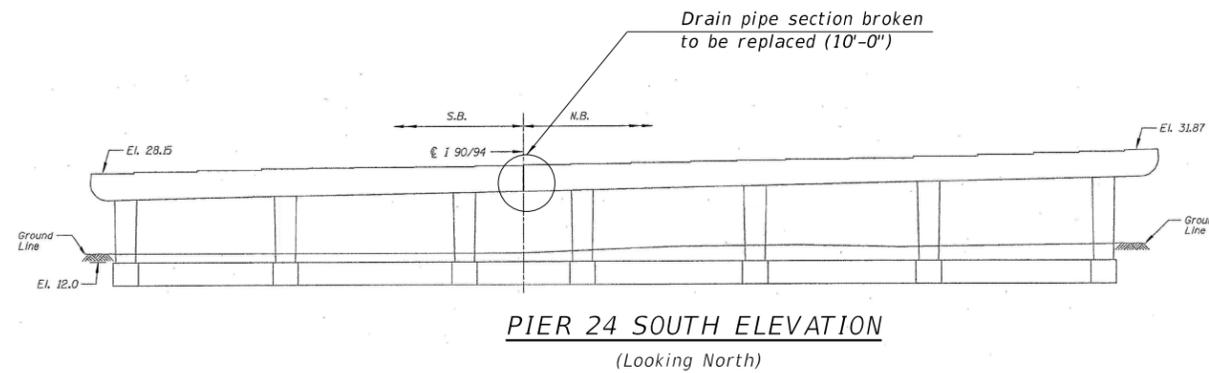
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94	2018-008-BJR	COOK	133	79
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



PIER 18 SOUTH ELEVATION
(Looking North)



PIER 21 SOUTH ELEVATION
(Looking North)



PIER 24 SOUTH ELEVATION
(Looking North)

NOTE

For general notes & bill of material, see sheet S12-6

FILE PATH = P:\1710-746 IDOT District 1\NO 2 Den Rgn Bridge Repairs\Sheet Files\SN 016-1112\0161112-007-Downspout Repairs Pier 18,21,&24.dgn



0161112-007-Downspout Repairs Pier 18,21,&24.dgn
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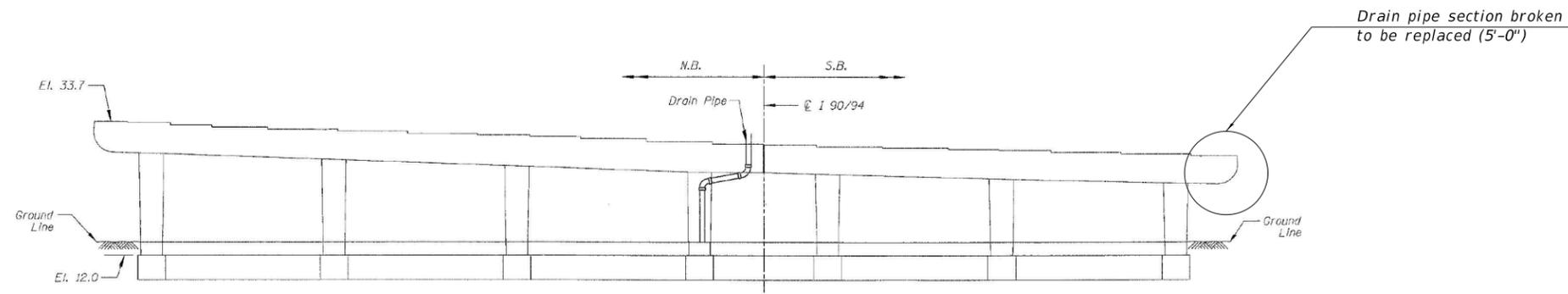
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TRANSPORTATION

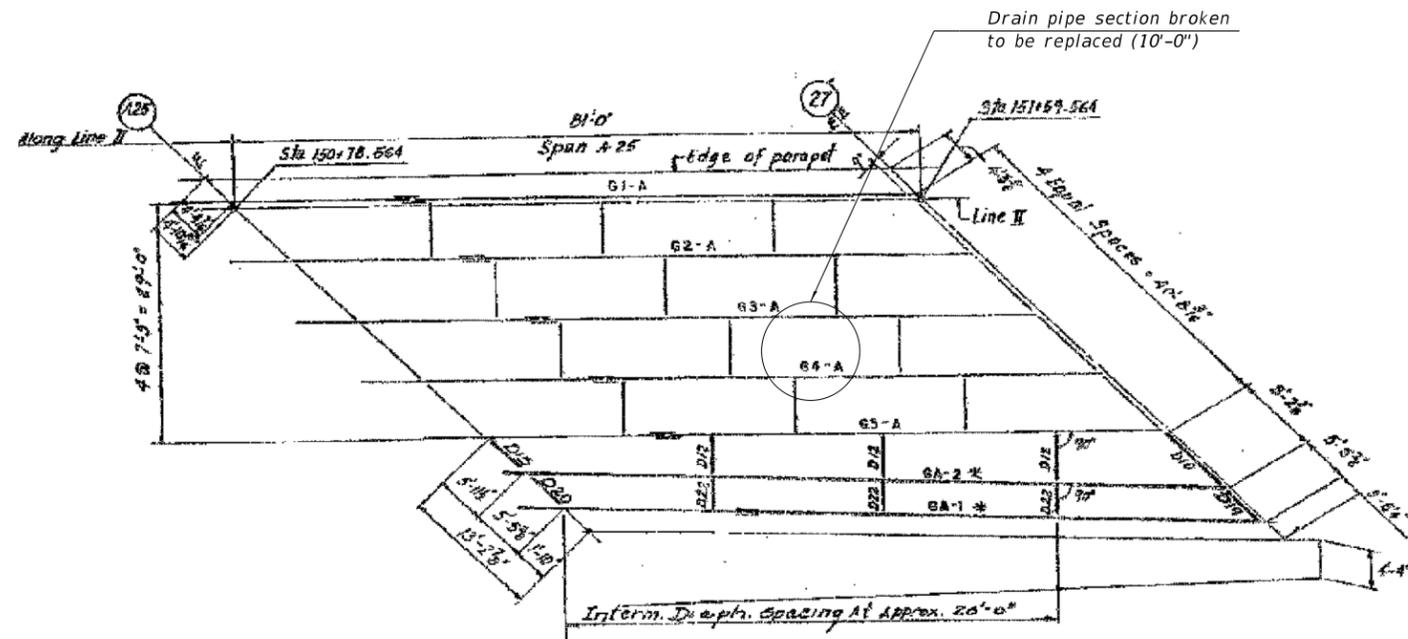
DOWNSPOUT REPAIRS PIER 18, 21 AND 24
I-90/94 OVER 18TH ST AND 22ND ST SN 016-1112

SCALE: SHEET S12-7 OF S12-12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	80
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



PIER 25 NORTH ELEVATION
(Looking South)



PLAN S.B. SPAN A25

NOTE

For general notes & bill of material, see sheet S12-6

FILE PATH = F:\1710-746 IDOT District 1\NO 2 Den Rgn Bridge Repairs\Sheet Files\SN 016-1112\0161112-008 Downspout Repairs Pier 25.dgn



0161112-008-Downspout Repairs Pier 25.dgn
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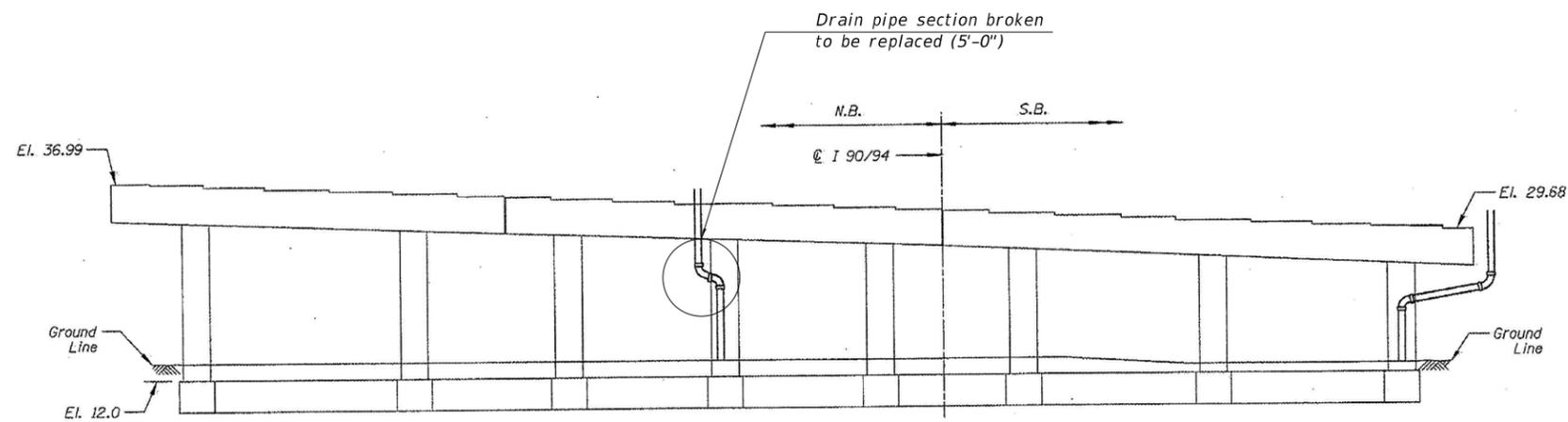
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STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

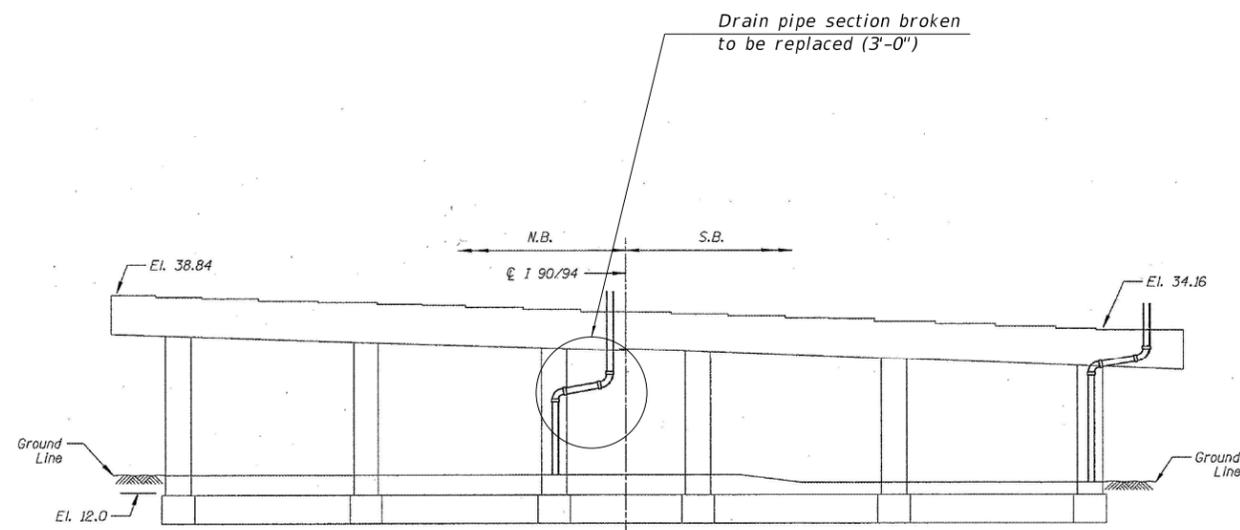
DOWNSPOUT REPAIRS PIER 25
I-90/94 OVER 18TH ST TO 22ND ST SN 016-1112

SCALE: SHEET S12-8 OF S12-12 SHEETS STA. TO STA.

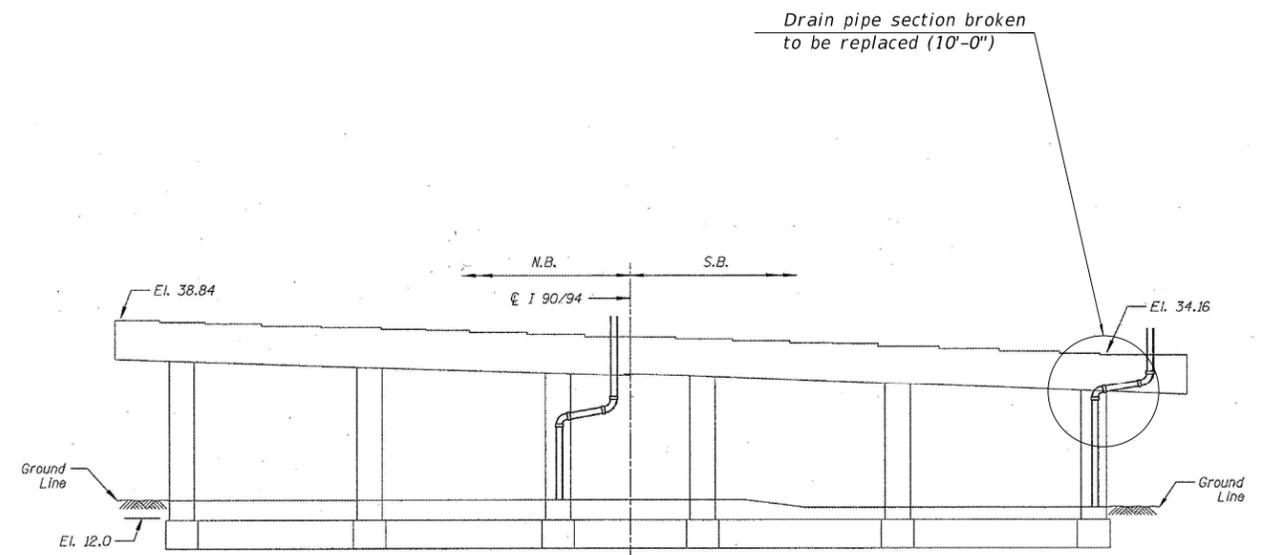
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94	2018-008-BJR	COOK	133	81
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



PIER 29 NORTH ELEVATION
(Looking South)



PIER 31 NORTH ELEVATION
(Looking South)



PIER 31 NORTH ELEVATION
(Looking South)

NOTE

For general notes & bill of material, see sheet S12-6

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0161112-009-Downspout Repairs Pier 29,31.dgn
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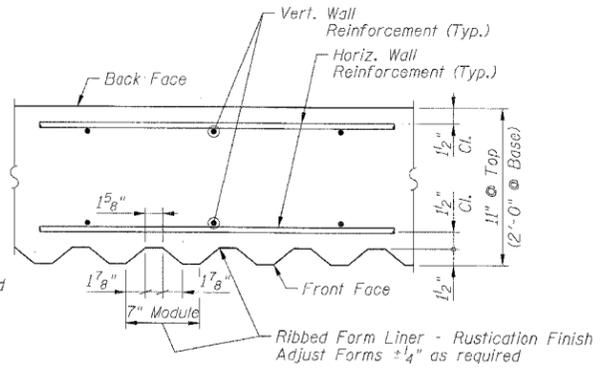
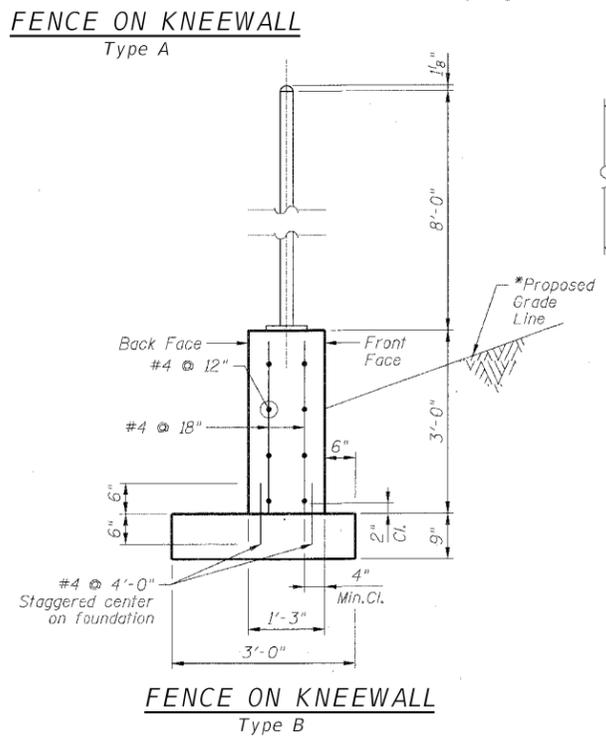
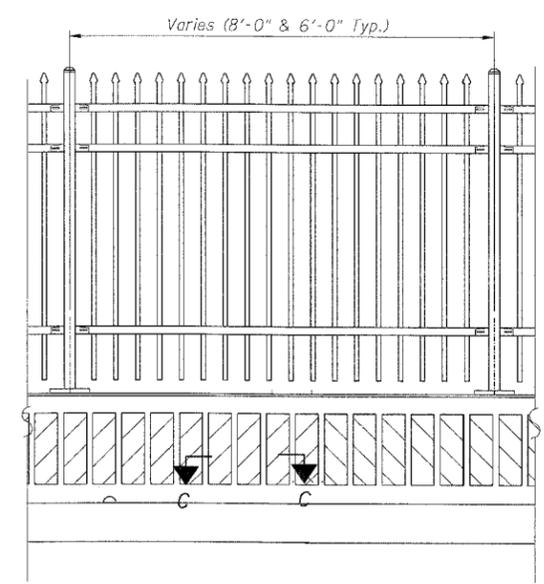
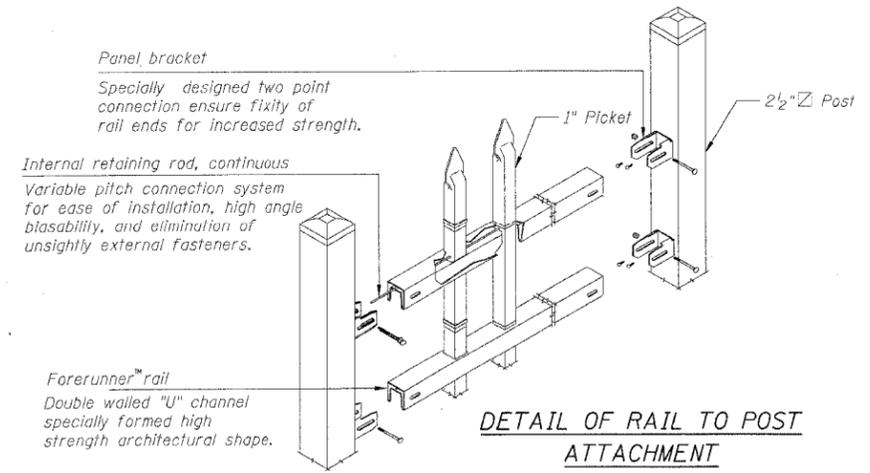
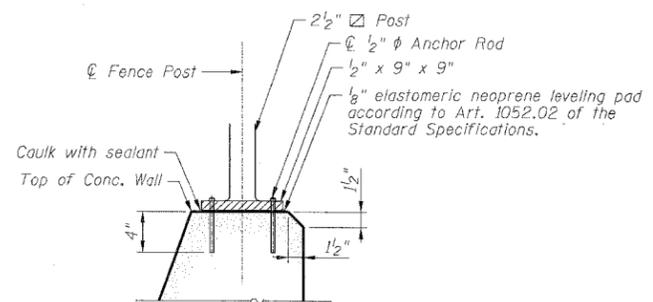
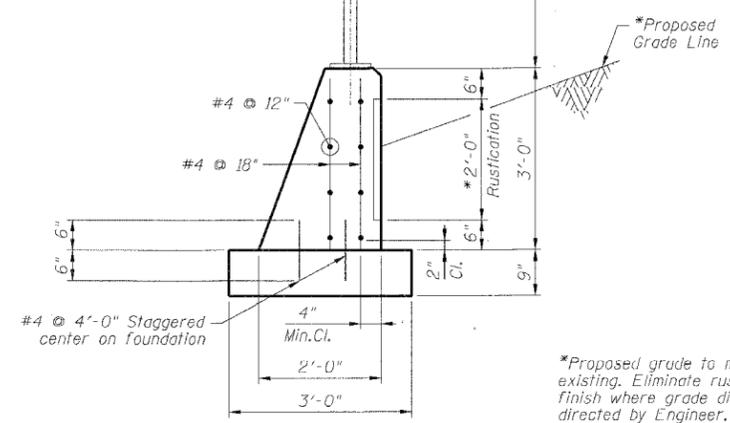
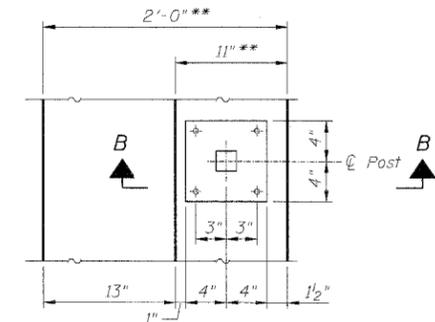
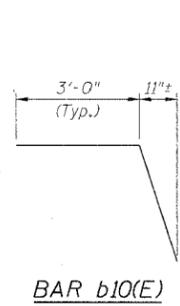
STATE OF ILLINOIS
 DEPARTMENT OF
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DOWNSPOUT REPAIRS PIER 29 AND 31
I-90/94 OVER 18TH ST TO 22ND ST SN 016-1112

SCALE: SHEET S12-9 OF S12-12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	82
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

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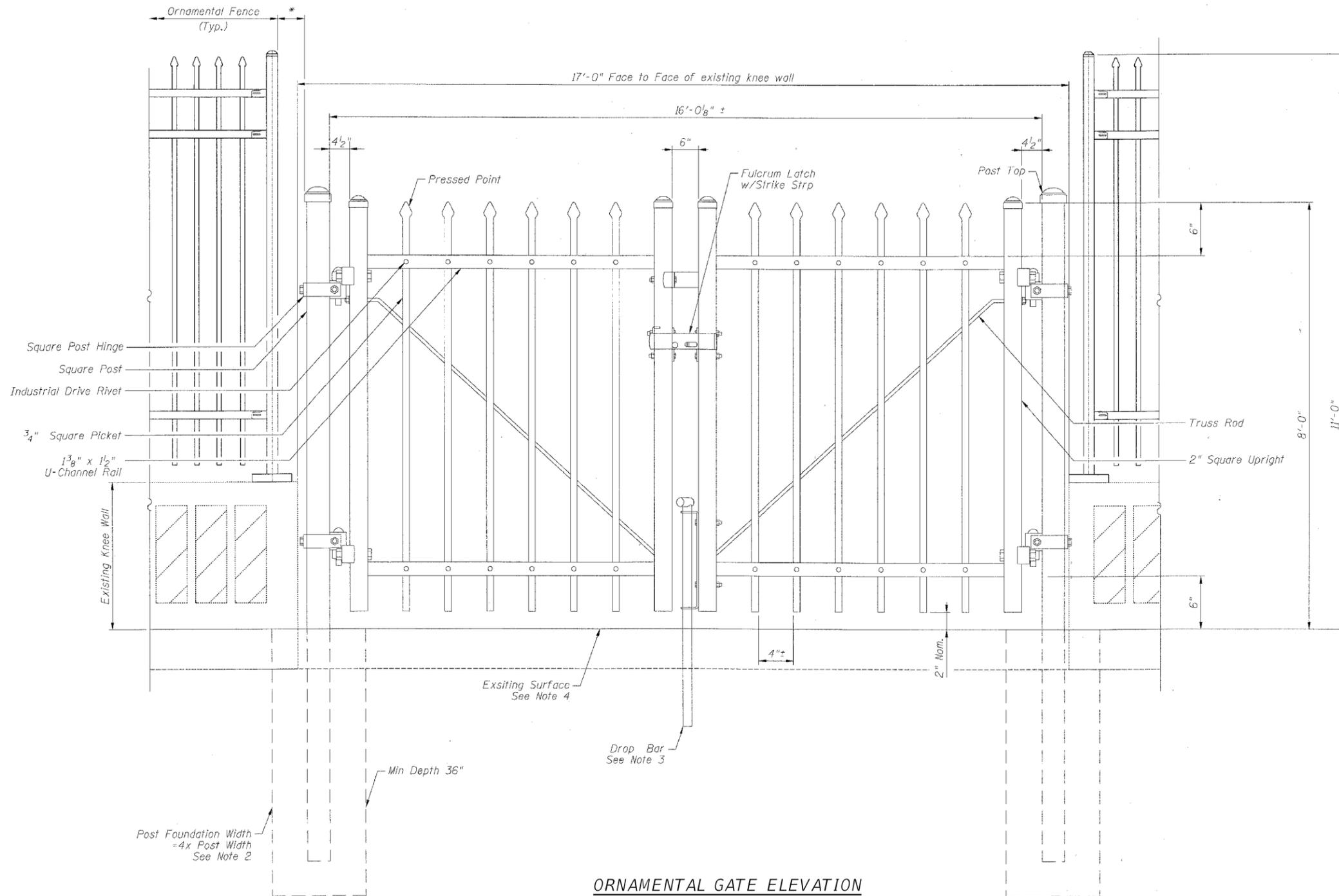
STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

ORNAMENTAL FENCE INSTALLATION SHEET 2 OF 3
I-90/94 OVER 18TH ST TO 22ND ST SN 016-1112

SCALE: SHEET S12-11 OF S12-12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	84
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

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ORNAMENTAL GATE ELEVATION

Notes:

1. Ornamental Gate Elevation shown is schematic and it shall be Contractor's responsibility to provide a 2 panel swing gate meeting the requirements shown that is consistent in appearance with the adjacent ornamental fence. Cost of gate and all work and components required to install shall be included in the per foot unit bid price for "Ornamental Fence".
2. Contractor shall adjust post foundation location and size to match existing knee wall and footing constraints. Cost of foundation and adjustments shall be included with "Ornamental Fence".
3. Cost of constructing necessary below grade components for drop bar function shall be included with "Ornamental Fence".
4. Contractor shall verify existing surface components within and near gate opening and make provisions for removal, replacement or adjustments in developing gate details. Cost of any necessary construction required to the existing surface materials to properly accommodate the gate details shall be considered included with "Ornamental Fence".
5. Contractor shall assure gate and fence details do not allow for the passage of a sphere 6 inches in diameter through any opening.
6. Contractor shall remove signs from the existing gate and re-attach to new gate as directed by Engineer. Cost included with "Ornamental Fence".
7. Gate shall be provided with a keyed padlock and 10 sets of keys. Padlock type and size shall be provided by Engineer. Cost included with "Ornamental Fence".



0161112-012-fence02.dgn
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 PLOT SCALE =
 PLOT DATE = 5/2/2018

DESIGNED - RTB
 DRAWN - AI
 CHECKED - RTB
 DATE - 03/19/2018

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STATE OF ILLINOIS
 DEPARTMENT OF
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ORNAMENTAL FENCE INSTALLATION SHEET 3 OF 3
I-90/94 OVER 18TH ST TO 22ND ST SN 016-1112

SCALE: SHEET S12-12 OF S12-12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	85
CONTRACT NO. 62G16				
<small>ILLINOIS FED. AID PROJECT</small>				

GENERAL NOTES:

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

SN 016-1113 SCOPE OF WORK

1. Remove and replace Finger Joint Troughs at NB Pier 1, SB Pier 1 and NB Pier C10.
2. Remove and replace existing PJS expansion joints with new Preformed Joint Seal per the Preformed Bridge Joint Seal Special Provision (PBJs) at NB Pier D7 and NB Pier D10.
3. Remove and replace existing Strip Seal Glands at NB Pier 10, SB Pier 10 and SB Pier A7.
4. Remove and replace broken and/or missing Drain pipes at P1 Center, P5 East Side, PC10 East Side, P10 Center, and P11 East Side.
5. Clean all deck drainage scuppers (28 SB and 17 NB).

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF DRAWINGS

- S13-1 General Plan and Elevation
- S13-2 General Notes, Index of Sheets and Miscellaneous Details
- S13-3 Joint Repair Elevations
- S13-4 Joint Repair Details
- S13-5 Pier 01 Finger Plate Joint Repair Sections and Details
- S13-6 Pier C10 Finger Plate Joint Repair Sections and Details
- S13-7 Pier 1, 5, 10, 11 Downspout Repairs

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cleaning Bridge Scuppers and Downspouts	Each	45
Bridge Drainage System Repairs	FOOT	264
Preformed Joint Seal, 3"	FOOT	78
Strip Seal Gland Replacement	FOOT	193

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STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIAL	
I-90/94 OVER 22ND ST TO S BRANCH OF CHICAGO RIVER SN 016-1113	
SCALE:	SHEET S13-2 OF S13-7 SHEETS STA. TO STA.

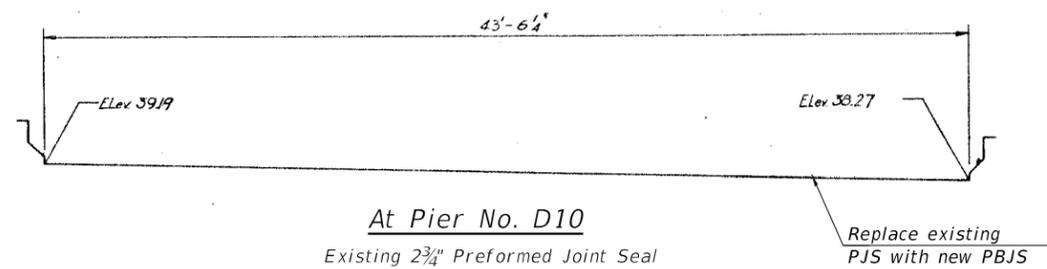
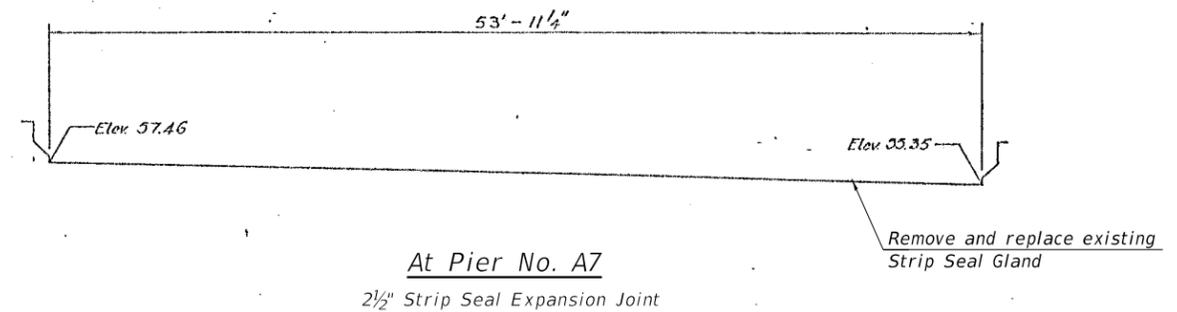
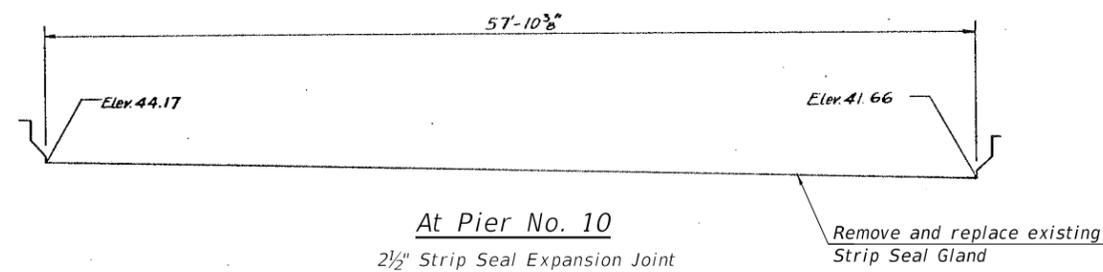
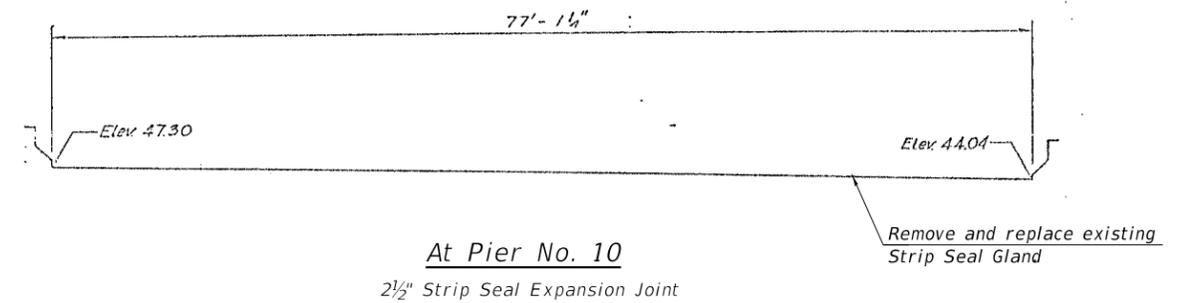
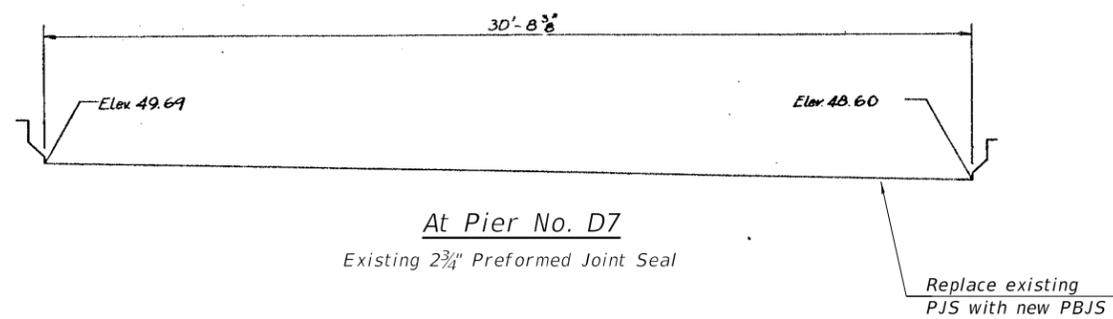
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94	2018-008-BJR	COOK	133	87
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Preformed Joint Seal, 3"	Foot	78
Strip Seal Gland Replacement	Foot	193

NORTH BOUND

SOUTH BOUND



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0161113-003-Joint Repair Elevation.dgn
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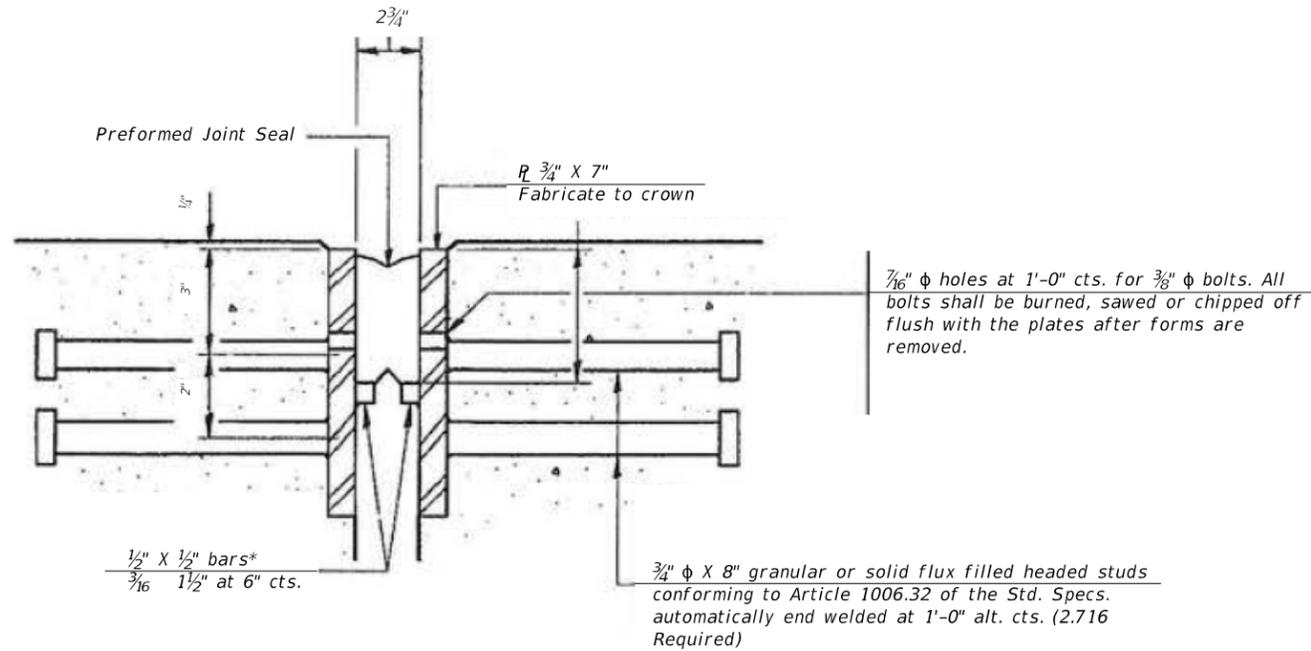
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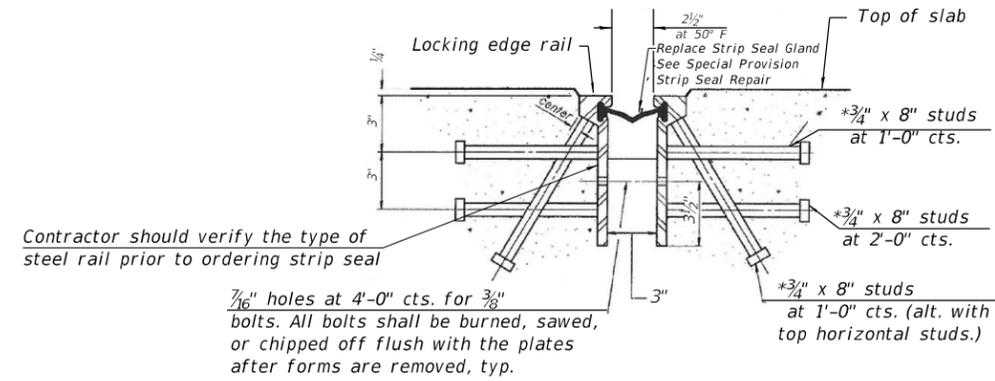
STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

EXISTING JOINT ELEVATIONS
I-90/94 OVER 22ND ST TO S BRANCH OF CHICAGO RIVER SN 016-1113
SCALE: SHEET 13-3 0613-7 SHEETS STA. TO STA.

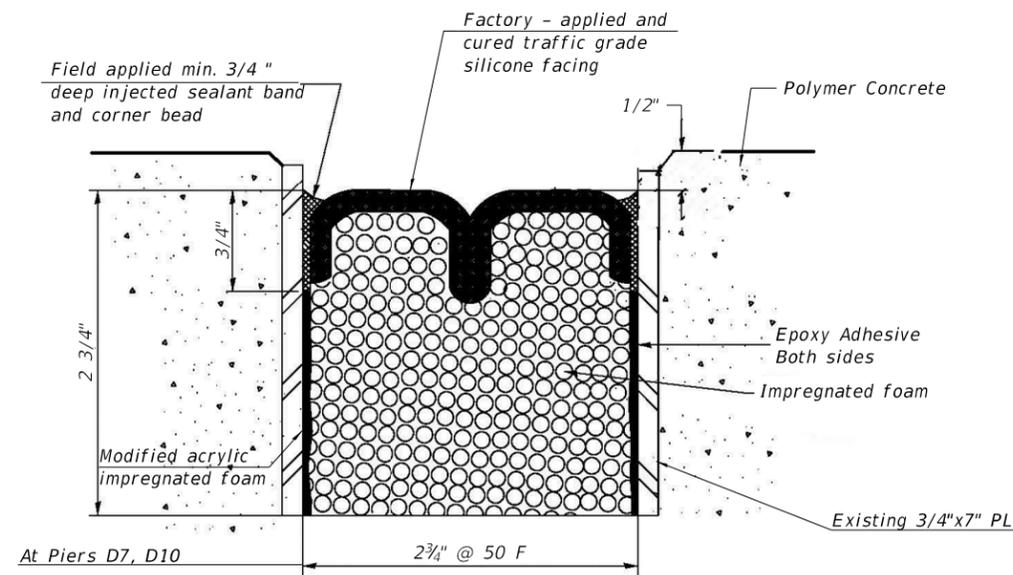
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94	2018-008-BJR	COOK	133	88
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



SECTION THRU EXISTING PREFORMED JOINT SEAL
AT PIERS D7 AND D10



PROPOSED STRIP SEAL GLAND TO BE REPLACED
AT PIERS 10 NB, 10SB AND A7



PROPOSED PBJS JOINT SEAL
AT PIERS D7 AND D10

Note: The new joint shall be a "Preformed, Pre-compressed, Silicone Coated, Self-Expanding Sealant System" and paid for as Preformed Joint Seal. See special provision "Preformed Bridge Joint Seal" (PBJS).

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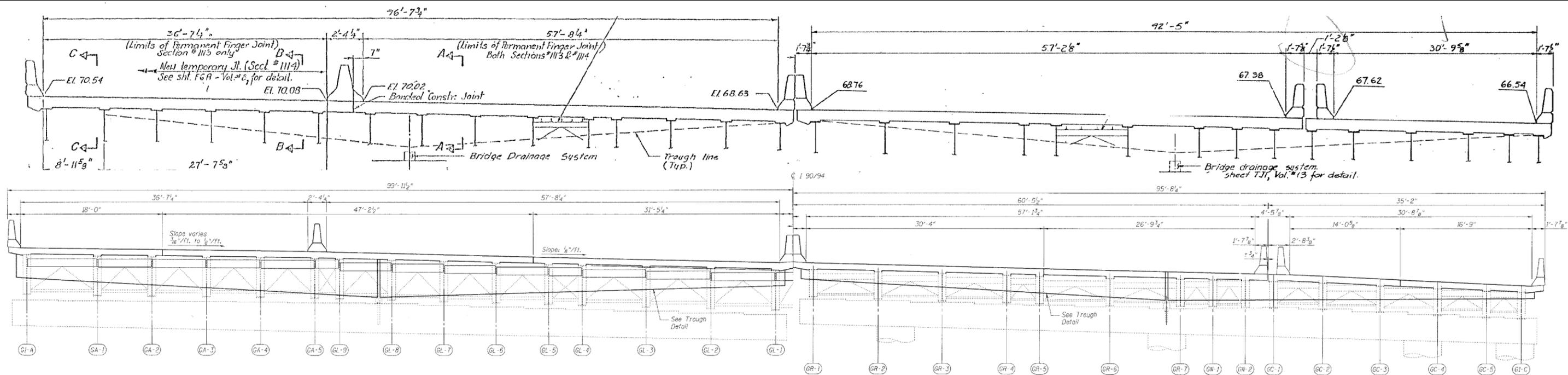
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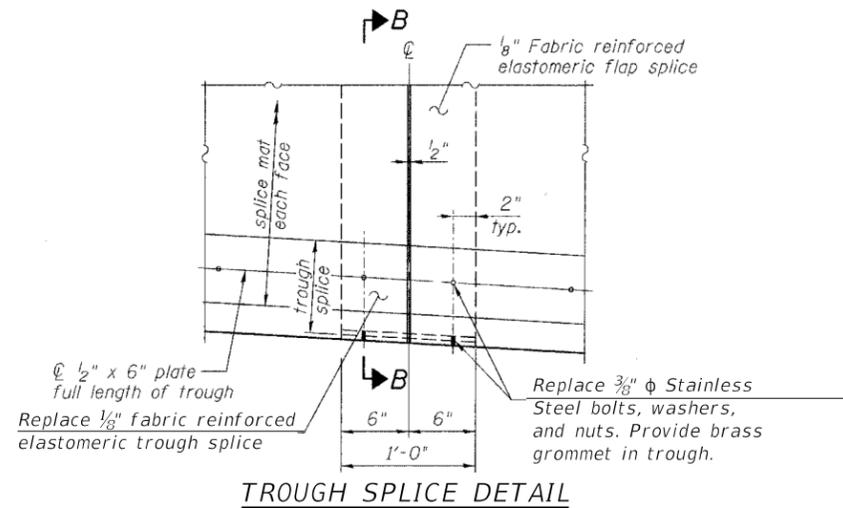
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I-90/94 OVER 22ND ST TO S BRANCH OF CHICAGO RIVER SN 016-1113
SCALE: SHEET S13-4 OF S13-7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	89
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

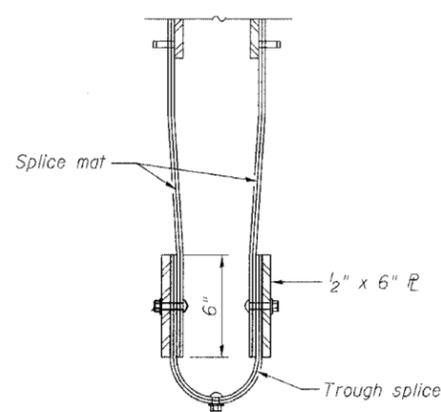


ELEVATION (LOOKING NORTH)

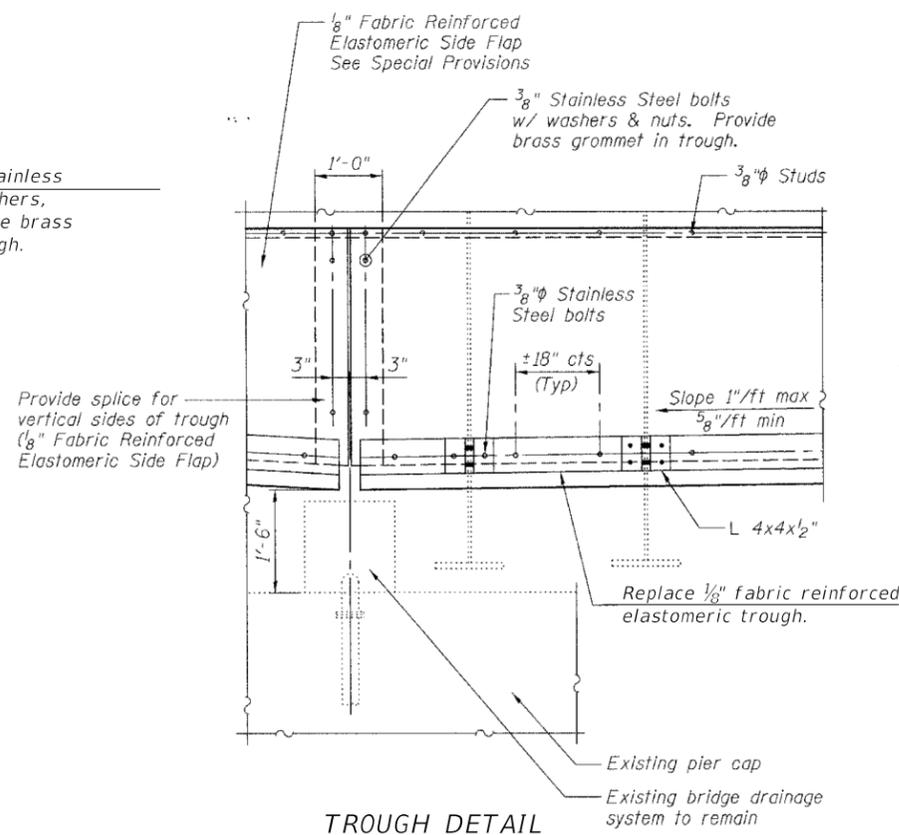
NOTES:
1. For Notes and Bill Of Material, see sheet S13-6



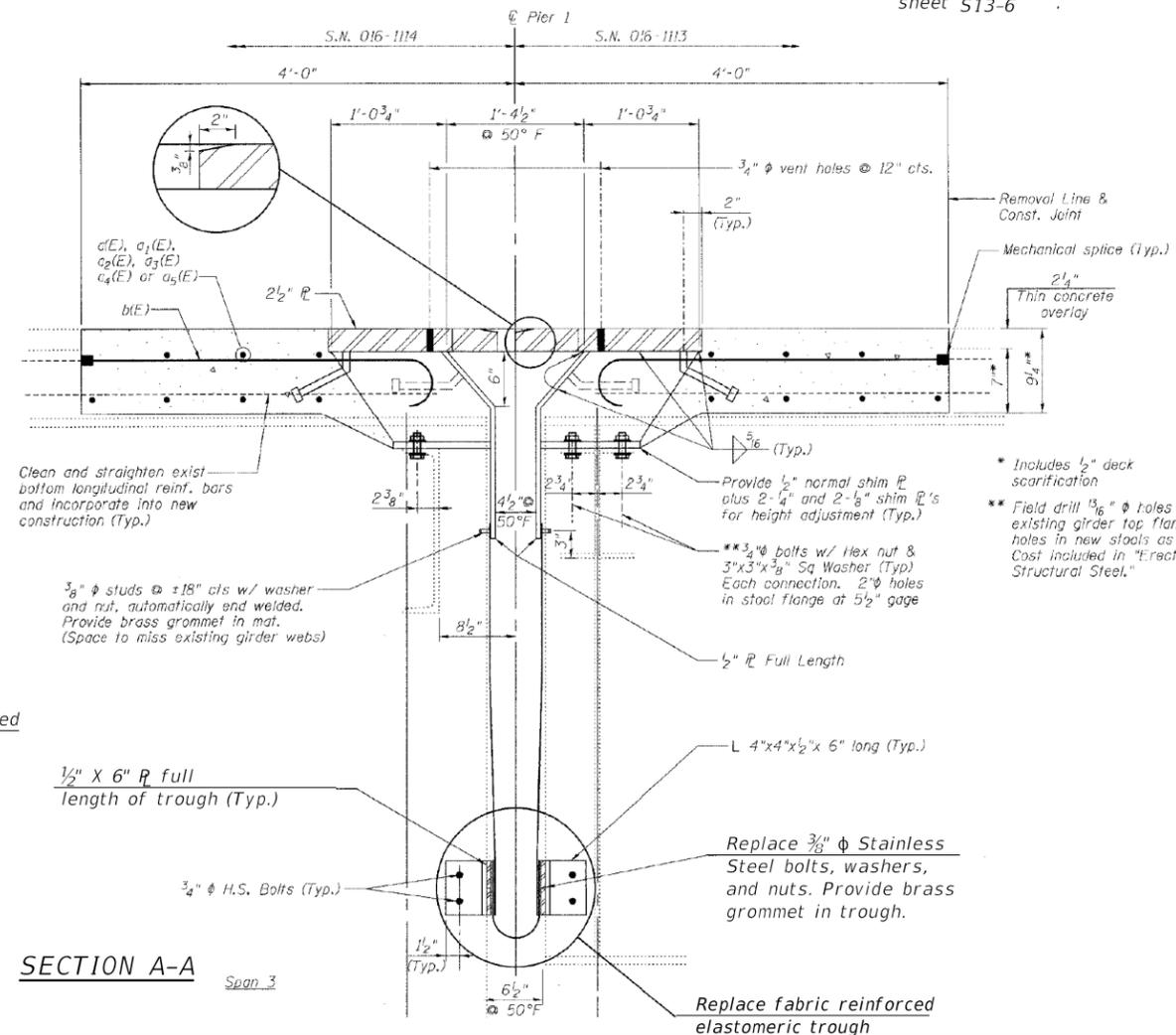
TROUGH SPLICE DETAIL



SECTION B-B



TROUGH DETAIL



SECTION A-A



016113-005-Pier01 FPJ Replacement.dgn
USER NAME = ahmed.issa
PLOT SCALE =
PLOT DATE = 5/2/2018

DESIGNED - MI
DRAWN - AI
CHECKED - RTB
DATE - 03/19/2018

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

PIER 01 FINGER PLATE JOINT REPAIR SECTIONS AND DETAILS
I-90/94 OVER 22ND ST TO S BRANCH OF CHICAGO RIVER NO. 016-1113

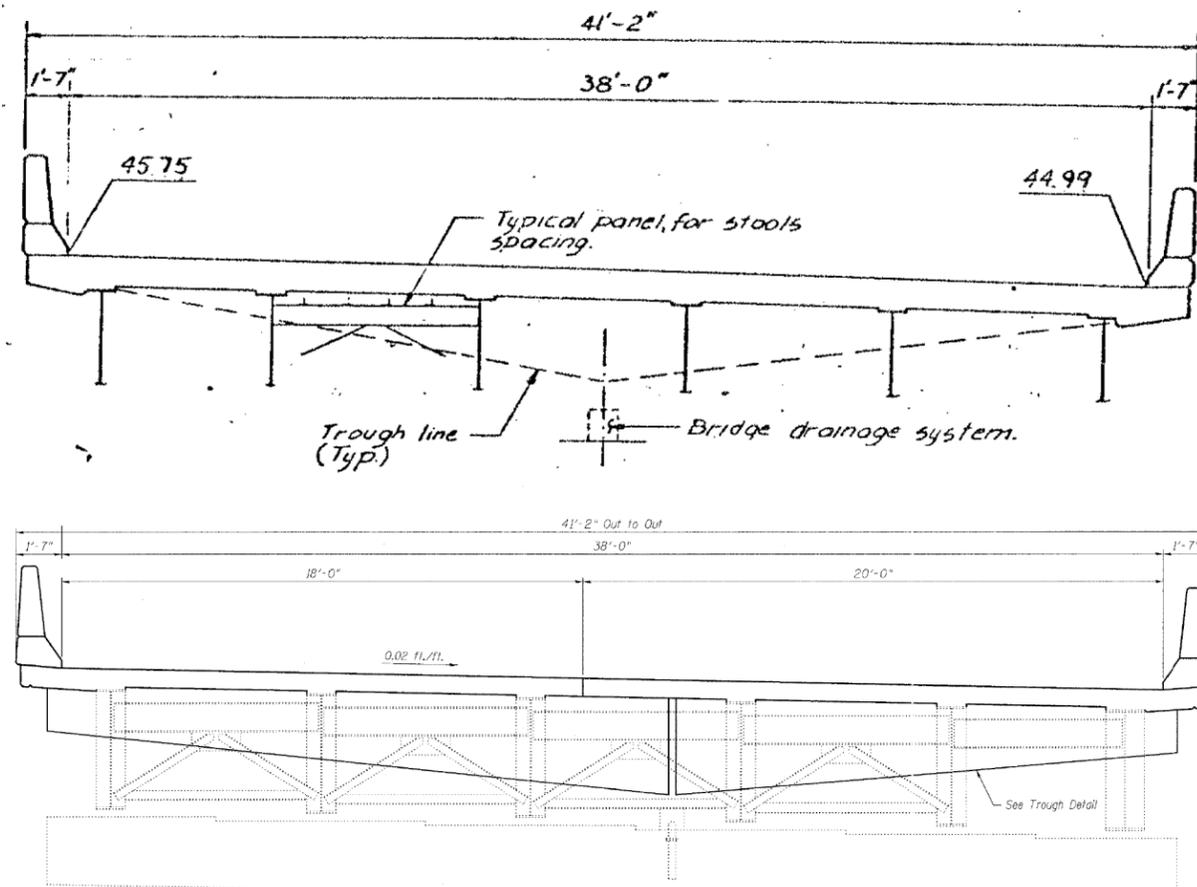
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F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

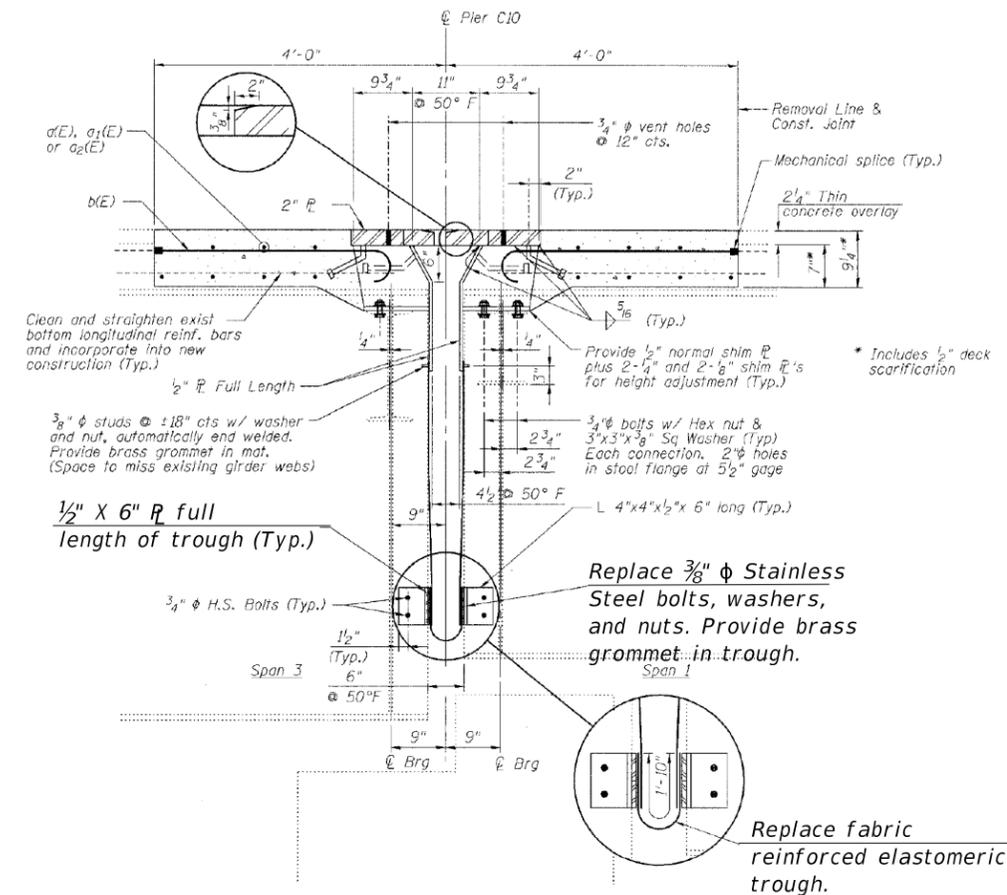
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BILL OF MATERIAL

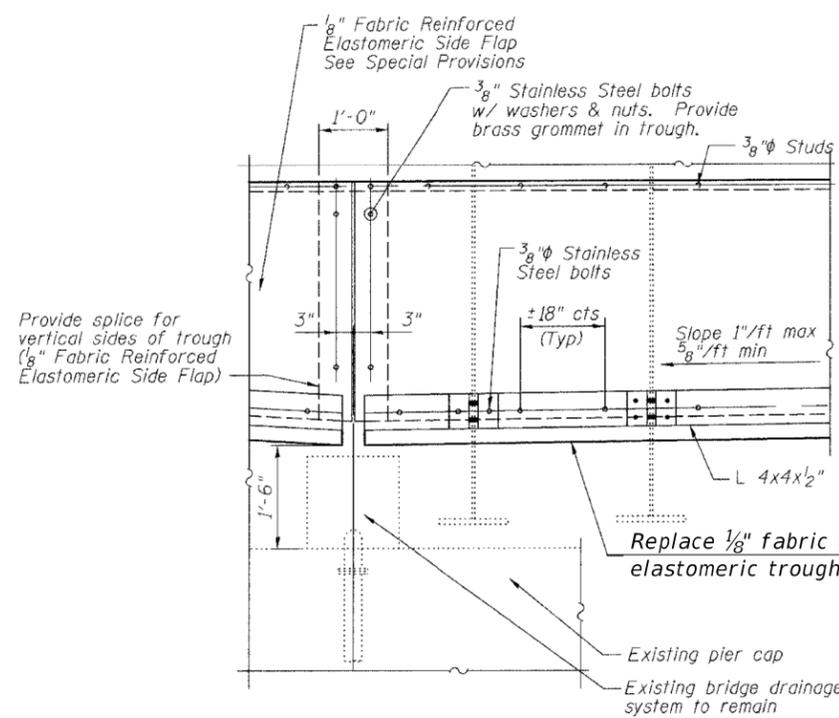
ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	FOOT	234



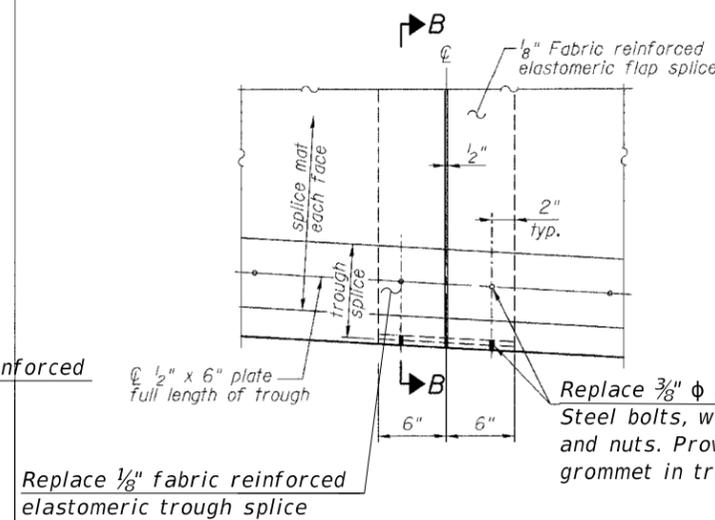
ELEVATION AT PIER C10 (LOOKING NORTH)



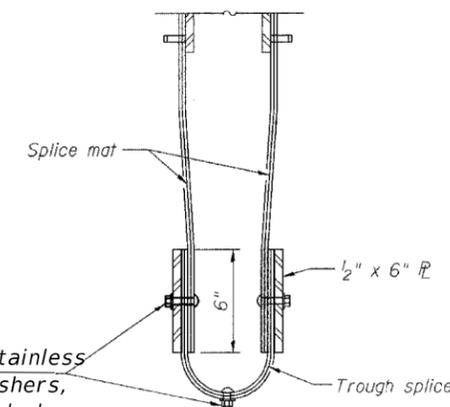
SECTION THROUGH JOINT



TROUGH DETAIL



TROUGH SPLICE DETAIL



SECTION B-B

NOTES:

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

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0161113-006-Pier-C10 FPJ Replacement.dgn
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PLOT SCALE =
PLOT DATE = 5/2/2018

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CHECKED - RTB
DATE - 03/19/2018

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REVISED -
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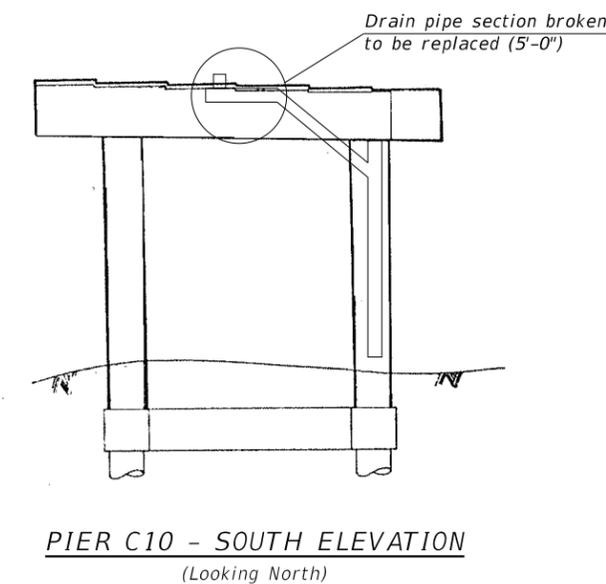
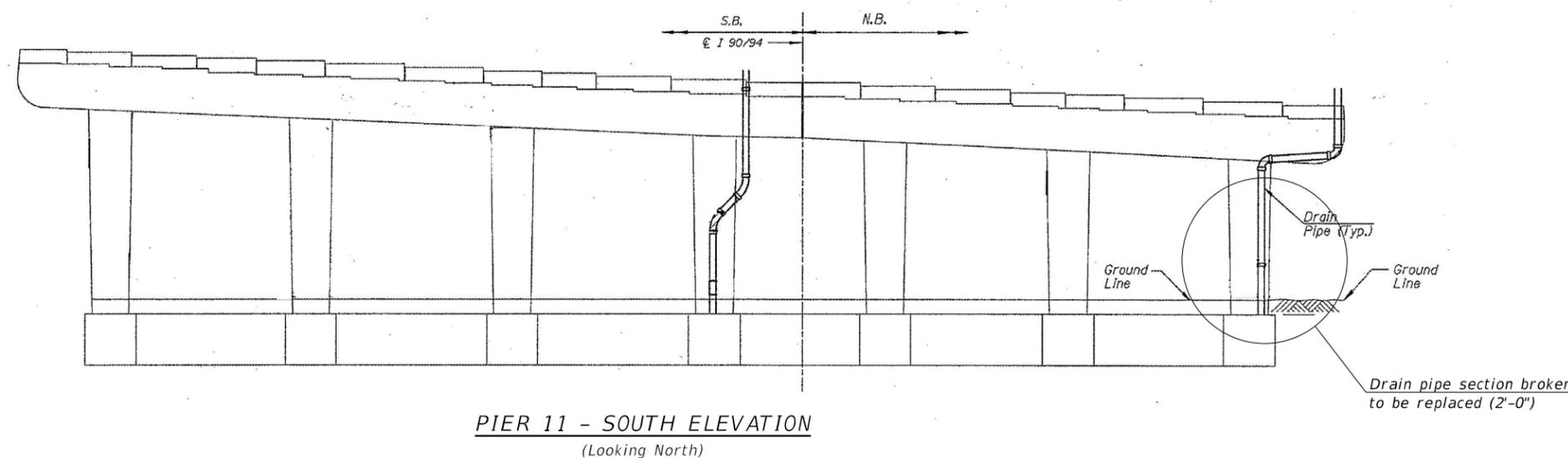
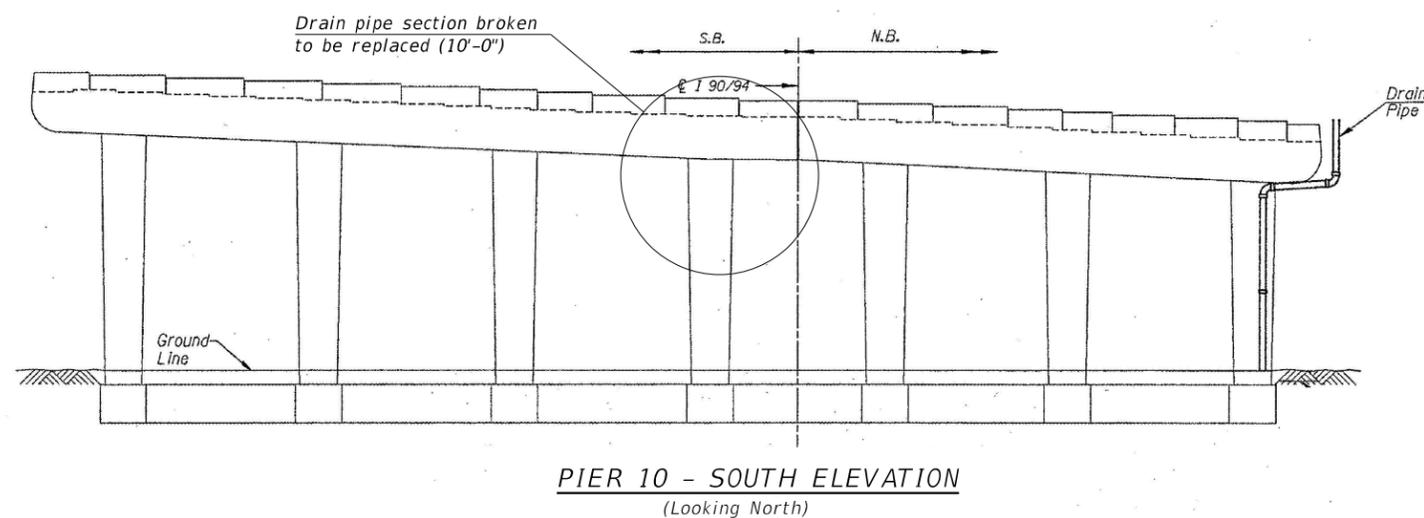
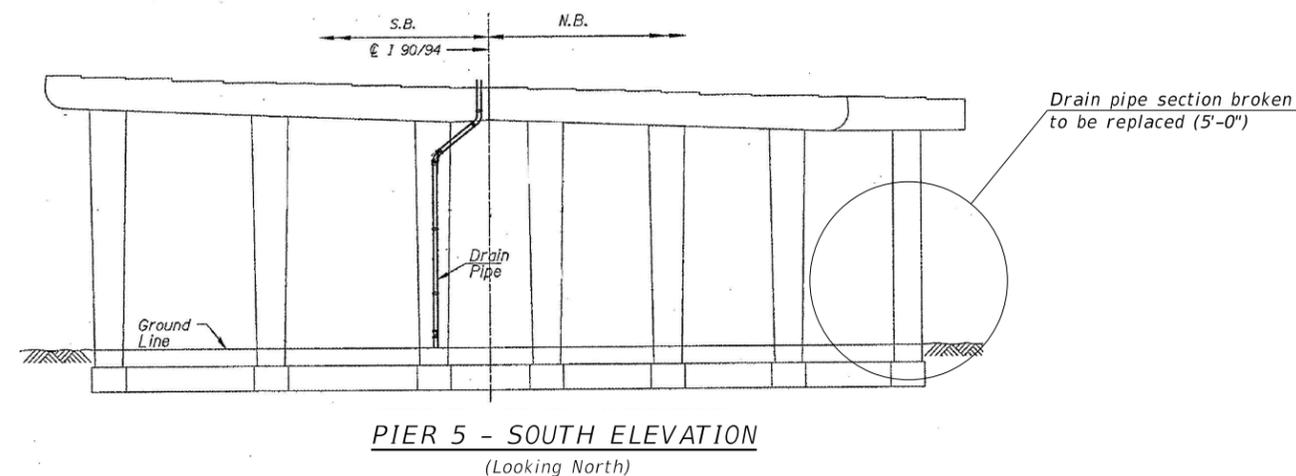
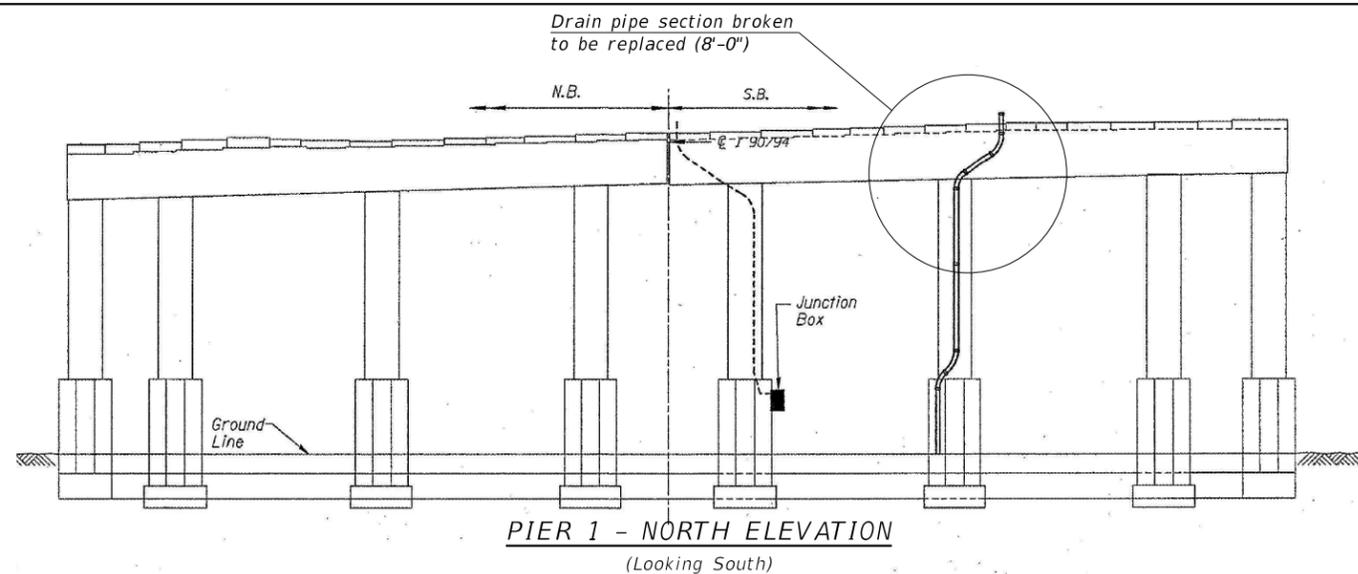
STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

PIER C10 - JOINT REPAIR DETAILS
I-9094 OVER 22NS ST TO S BRANCH OF CHICAGO RIVER SN 016-1113
SCALE: SHEET S13-6 OF S13-7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	91
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	FOOT	30



DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
2. 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.
3. When existing drain pipes are wrapped with tape, the tape shall be removed, if the pipe is broken or missing a connection, the pipe shall be replaced or otherwise new tape shall be provided. The type of tape shall be approved by the Engineer. The cost shall be included in "Bridge Drainage System Repairs" and the length measured shall be the length of the pipe replaced or length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see General Plan and Elevation Sheet.

FILE PATH = P:\1710-746-1007-District\NO 2-Den Rgn B-ldge Repairs\Sheet Files\SN 016-1113\016113-007-Downspout Repairs Pier 1,5,10,C10&11.dgn



016113-007-Downspout Repairs Pier 1,5,10,C10&11.dgn
 USER NAME = ahmed.issa
 PLOT SCALE =
 PLOT DATE = 5/2/2018

DESIGNED - DA
 DRAWN - HI
 CHECKED - RTB
 DATE - 03/19/2018

REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

DOWNSPOUT REPAIRS PIER 1, 5, 10, C10 & 11
I-90/94 OVER 22nd ST TO S BRANCH OF CHICAGO RIVER SN 016-1113
 SCALE: SHEET S13-7 OF S13-7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	92
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF DRAWINGS

- S14-1 General Plan and Elevation
- S14-2 General Notes, Index of Sheets and Total Bill Of Material
- S14-3 Downspout Repairs Pier 1, and 2
- S14-4 Downspout Repairs Pier 22

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cleaning Bridge scuppers and downspouts	EACH	20
Bridge Drainage System Repairs	FOOT	195

SN 016-1114 SCOPE OF WORK

1. Remove and replace broken and/or missing Drain pipes at P1 Span 3 Center, P1 Span 3 East Side, Span 3 East Side Longitudinal Run, Span 3 East Side Longitudinal Run, Span 3 Center Longitudinal Run, Span 2 East Side Longitudinal Run, Span 1 East Side Longitudinal Run, Span 2 East Side Longitudinal Run, P22 East Side, P22 Center, and Span 1 Center Longitudinal Run.
2. Clean Bridge Scuppers and Spouts (10 NB & 10 SB).

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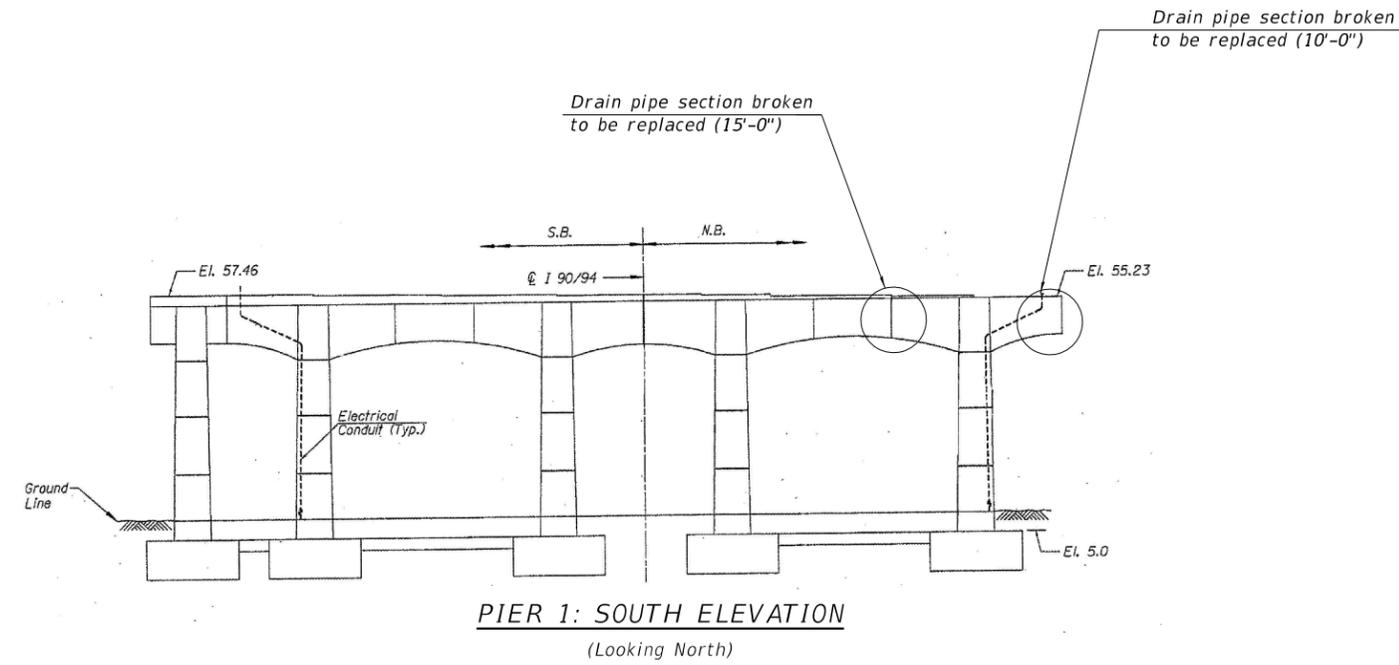
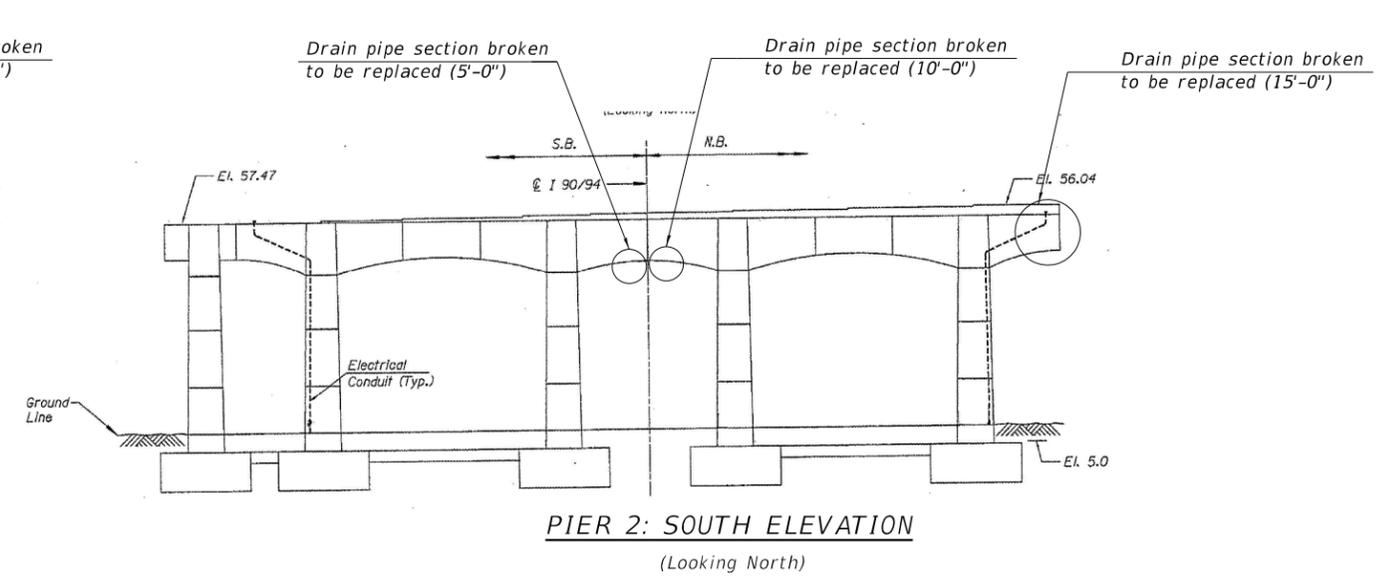
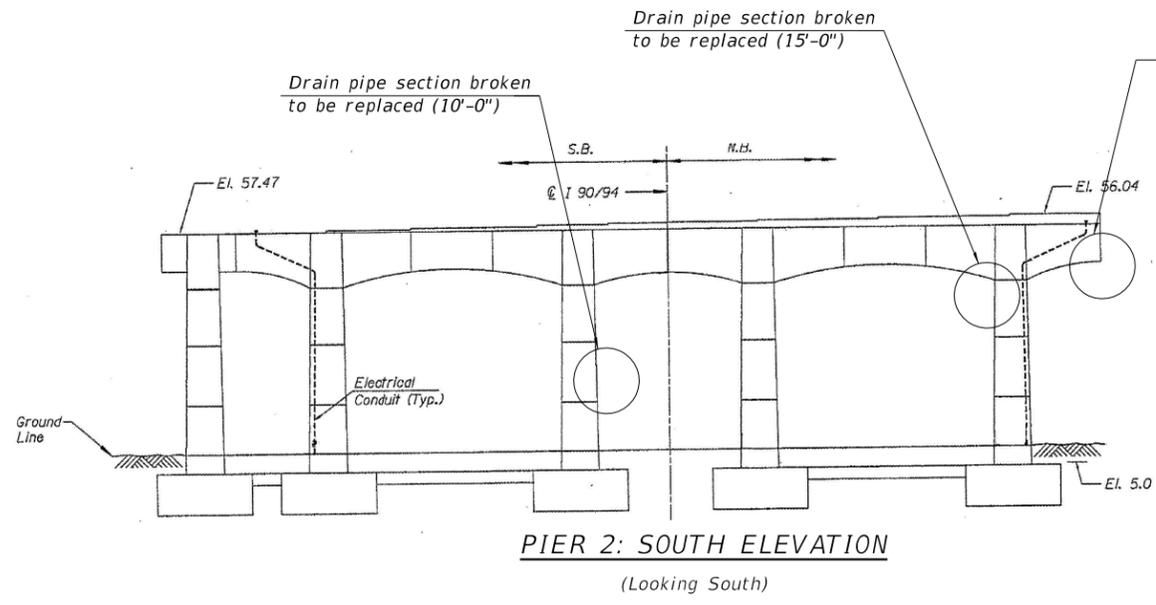


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PLOT DATE = 5/2/2018	DATE - 03/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIAL				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-90/94 OVER SOUTH BRANCH OF CHICAGO RIVER SN 016-1114				94	2018-008-BJR	COOK	133	94
SCALE:				SHEETS14-2 0614-4 SHEETS		STA. TO STA.		ILLINOIS FED. AID PROJECT
				CONTRACT NO. 62G16				

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DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
2. 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.
3. When existing drain pipes are wrapped with tape, the tape shall be removed, if the pipe is broken or missing a connection, the pipe shall be replaced or otherwise new tape shall be provided. The type of tape shall be approved by the Engineer. The cost shall be included in "Bridge Drainage System Repairs" and the length measured shall be the length of the pipe replaced or length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see General Plan and Elevation Sheet.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	FOOT	195



0161114-003-Downspout Repairs Pier1&2.dgn
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 PLOT DATE = 5/2/2018

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 DRAWN - HI
 CHECKED - RTB
 DATE - 03/19/2018

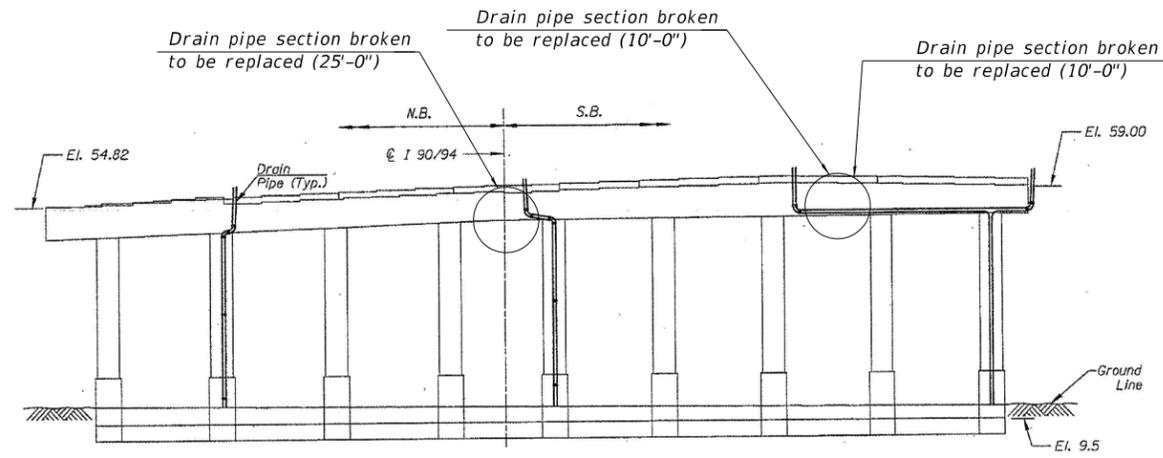
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STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

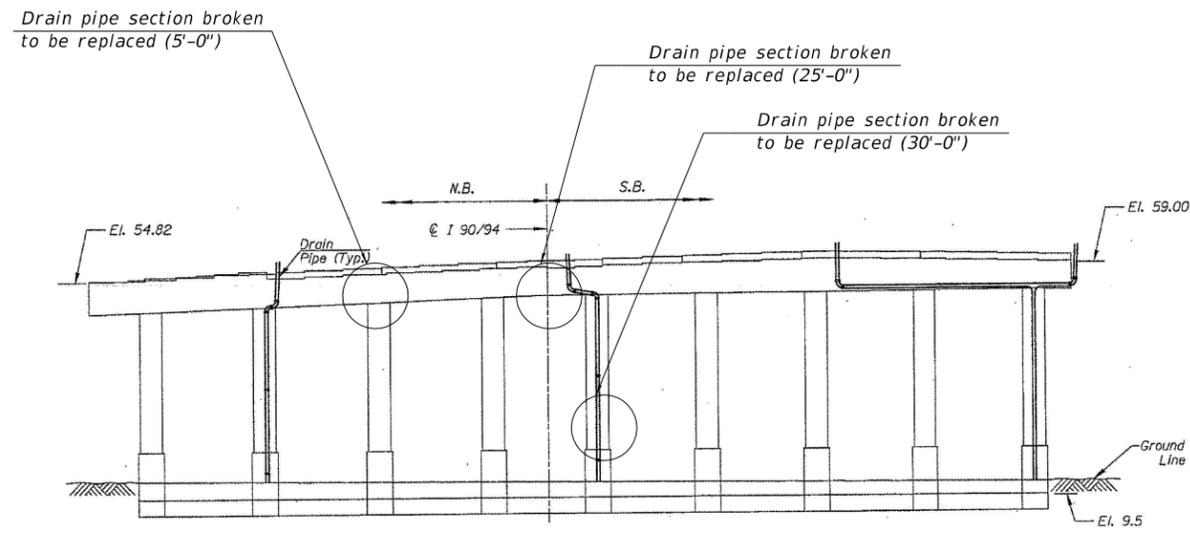
DOWNSPOUT REPAIRS PIER 1, AND 2
I-90/94 OVER SOUTH BRANCH OF CHICAGO RIVER SN 016-1114

SCALE: SHEETS14-3 OPS14-4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	95
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



PIER 22: NORTH ELEVATION
(Looking South)



PIER 22: NORTH ELEVATION
(Looking South)

DRAINAGE REPAIR NOTES

1. For notes and bill of materials, see sheet S14-3

FILE PATH = F:\1710-746 IDOT District 1\NO 2 Den Rgn B-ldge Repairs\Sheet Files\SN 016-1114\016114-004-Downspout Repairs Pier 22.dgn



016114-004-Downspout Repairs Pier 22.dgn
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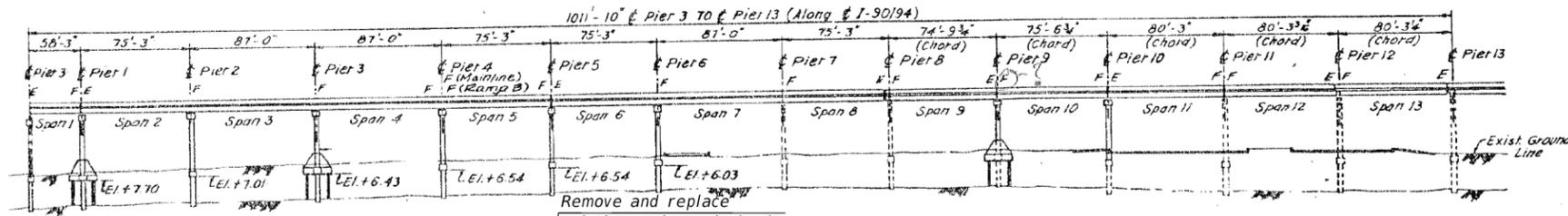
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STATE OF ILLINOIS
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 TRANSPORTATION

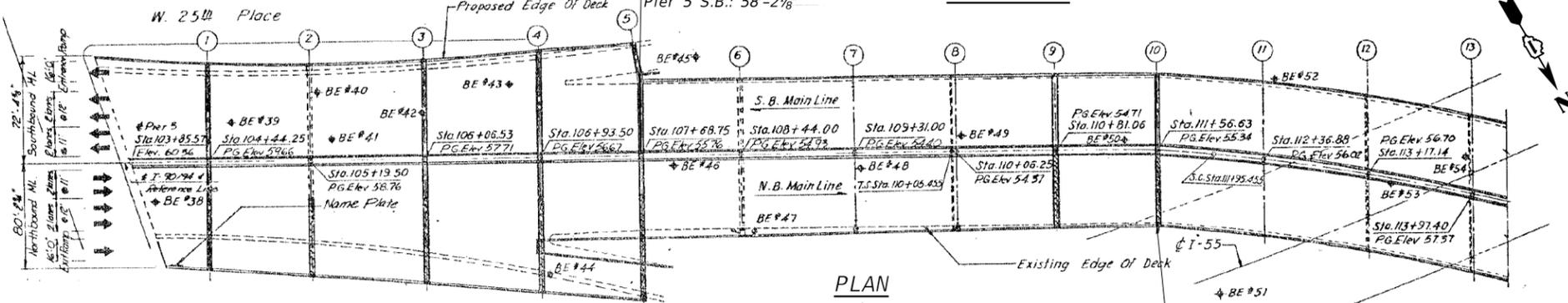
DOWNSPOUT REPAIRS PIER 22
I-9094 OVER SOUTH BRANCH OF CHICAGO RIVER SN 016-1114

SCALE: SHEET S14-4 OPS14-4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	96
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



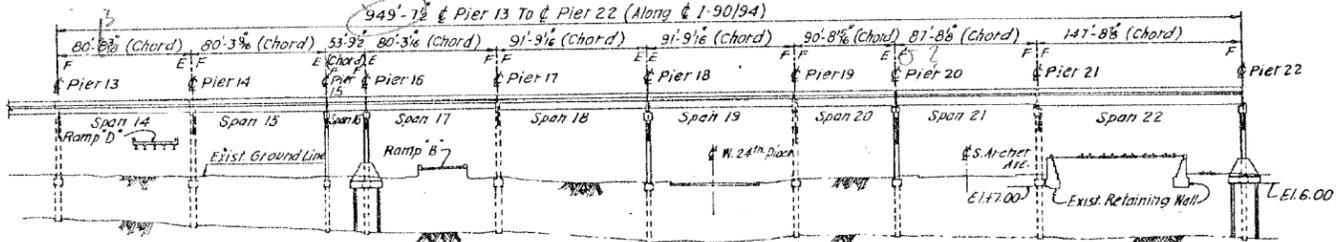
ELEVATION



PLAN

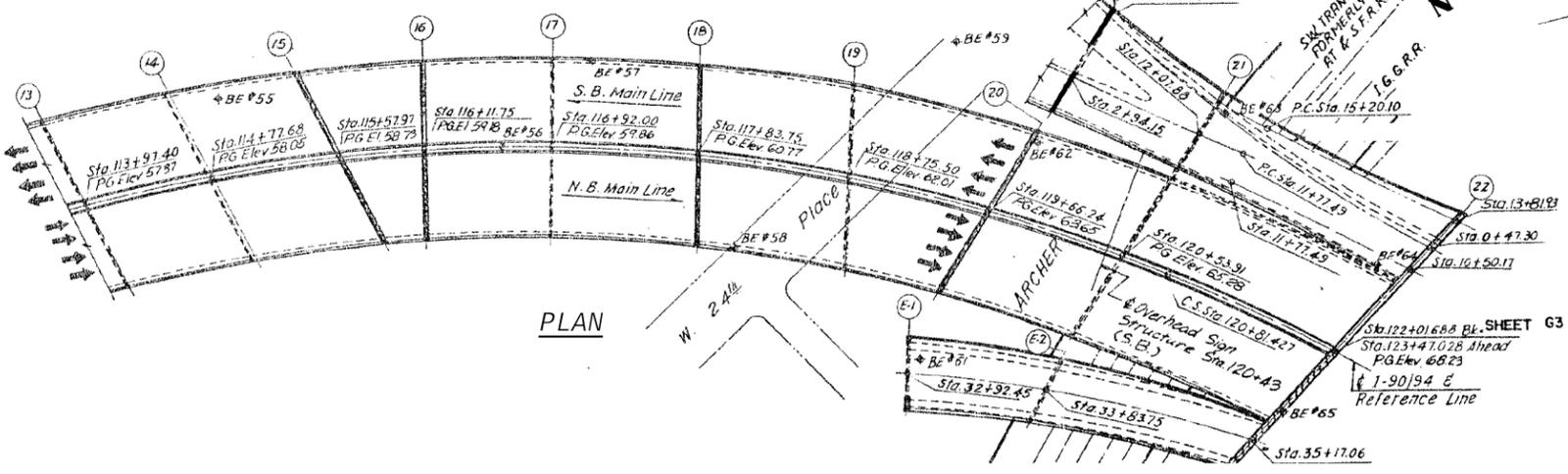
Remove and replace existing strip seal glands Pier 5 S.B.: 58'-2 1/8"

Existing PJS to be Removed and Replaced with new PBJS Pier 10 N.B.: 57'-8" Pier 10 S.B.: 58'-2"

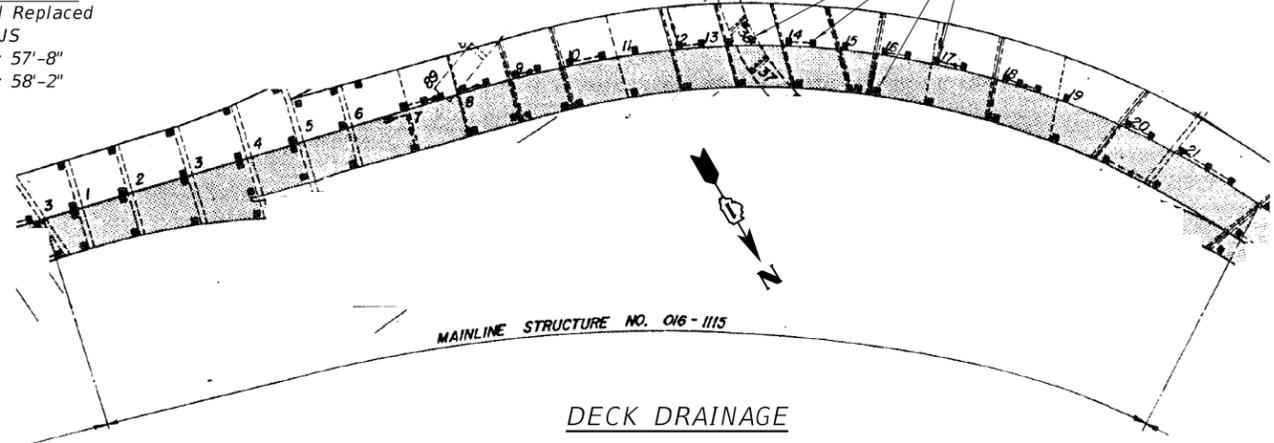


ELEVATION

Remove and Replace PJS with PBJS Pier F1 S.B.: 75'-6"

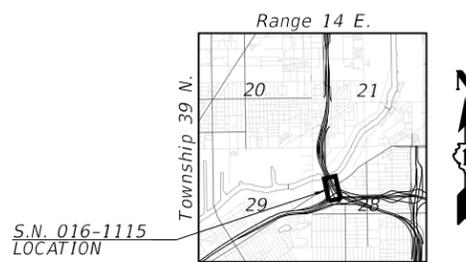


PLAN



DECK DRAINAGE

Clean all exist. Drainage Scuppers, typ.



LOCATION SKETCH

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0161115-001-GPE.dgn
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 PLOT DATE = 5/2/2018

DESIGNED - AI
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 CHECKED - RTB
 DATE - 03/19/2018

REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

GENERAL PLAN AND ELEVATION
 I-90/94 OVER S BRANCH OF CHICAGO RIVER SN 016-1115

SCALE: SHEET S15-1 OF S15-11 SHEETS STA. TO STA.

F.A.P. RTE. 94	SECTION 2018-008-BJR	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 97
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

SN 016-1115 SCOPE OF WORK

1. Remove and replace Strip Seal Glands at S.B. Pier 5.
2. Remove and replace exist. PJS expansion joints with new Preformed Joint Seal per the Preformed Bridge Joint Seal Special Provision (PBJs) at N.B. Pier 10, S.B. Pier 10 and S.B. Pier F1.
3. Remove and replace broken and/or missing Drain pipes at SP22 Central Longitudinal Run, P20 East Side, SP19 Center, P18 Center, SP18 Center, P17 Center, P18 East Side, P17 East Side, SP17 Center Longitudinal Run, P16 East Side, P15 East Side, SP15 Center, P14 Center, P16 Center, SP21 Center Longitudinal Run, P20 Center, PE1 East Side, P19 East Side, P1 Center, P1 East Side, P2 East Side, P3 Center, P3 East Side, P5 West Side, SP7 Center, SP8 Center, P8 East Side, P9 East Side, P10 Center, SP13 Center.
4. Clean all deck drainage scuppers (45 S.B. and 31 N.B.)

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF DRAWINGS

- S15-1 General Plan and Elevation
- S15-2 General Notes, Index of Sheets and Total Bill Of Material
- S15-3 Joint Repair Sections
- S15-4 Joint Repair Details
- S15-5 Downspout Repairs Piers 1 and 2
- S15-6 Downspout Repairs Pier 22
- S15-7 Downspout Repairs Piers 3 and 5
- S15-8 Downspout Repairs Piers 8, 9, 10 and 14
- S15-9 Downspout Repairs Piers 15, 16, 18 and 20
- S15-10 Downspout Repairs Piers 17 and 19

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Cleaning Bridge scuppers and downspouts	EACH	76
Bridge Drainage System Repairs	FOOT	214
Preformed Bridge Joint Seal, 3"	FOOT	116
Preformed Bridge Joint Seal, 2 1/2"	FOOT	76
Strip Seal Gland Replacement	FOOT	59

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STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

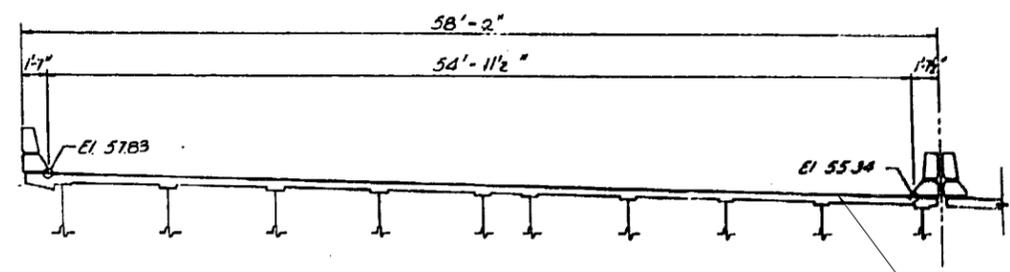
GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIAL
I-9094 OVER S BRANCH OF CHICAGO RIVER NO. 016-1115

SCALE: SHEET S15-2 OF S15-11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	98
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

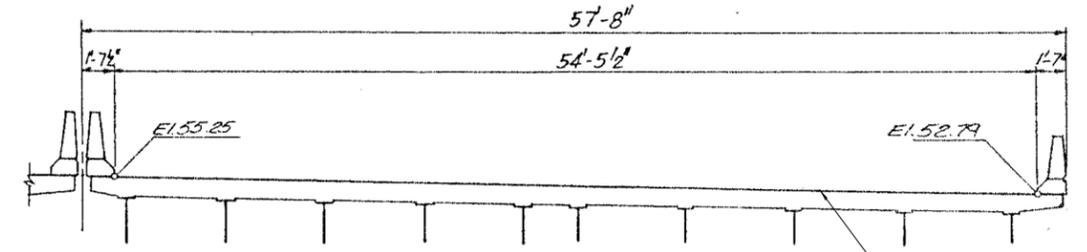
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Preformed Joint Sealer, 3"	FOOT	116
Preformed Joint Sealer, 2 1/2"	FOOT	76
Strip Seal Gland Replacement	FOOT	59



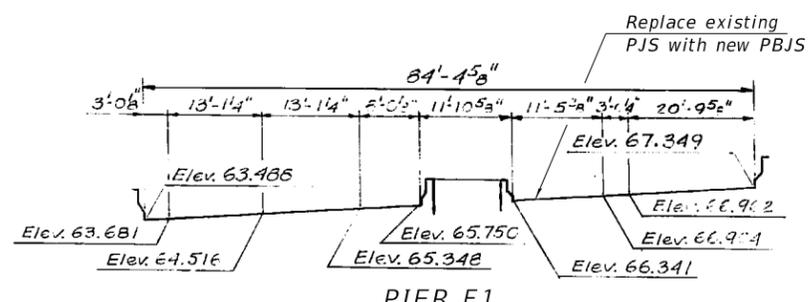
PIER 10 S.B.
2 3/4" Preformed Joint Seal

Replace existing
PJS with new PBJs



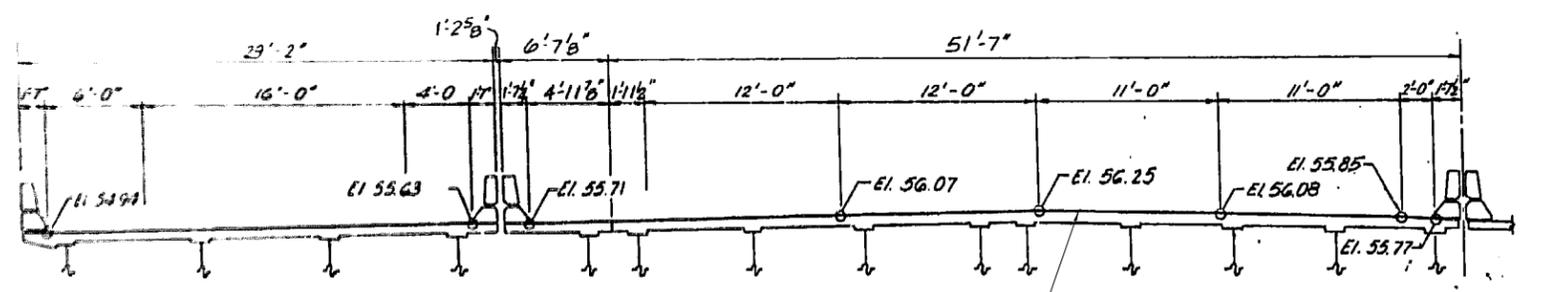
PIER 10 N.B.
2 3/4" Preformed Joint Seal

Replace existing
PJS with new PBJs



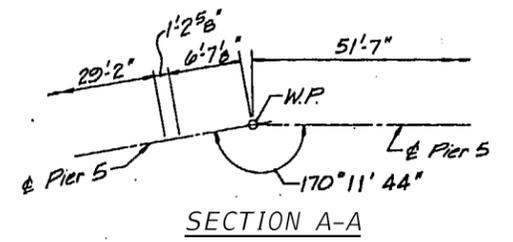
PIER F1
Preformed Joint Seal

Replace existing
PJS with new PBJs



PIER 5
2 1/2" Strip Seal Gland

Replace existing Strip
Seal Glands



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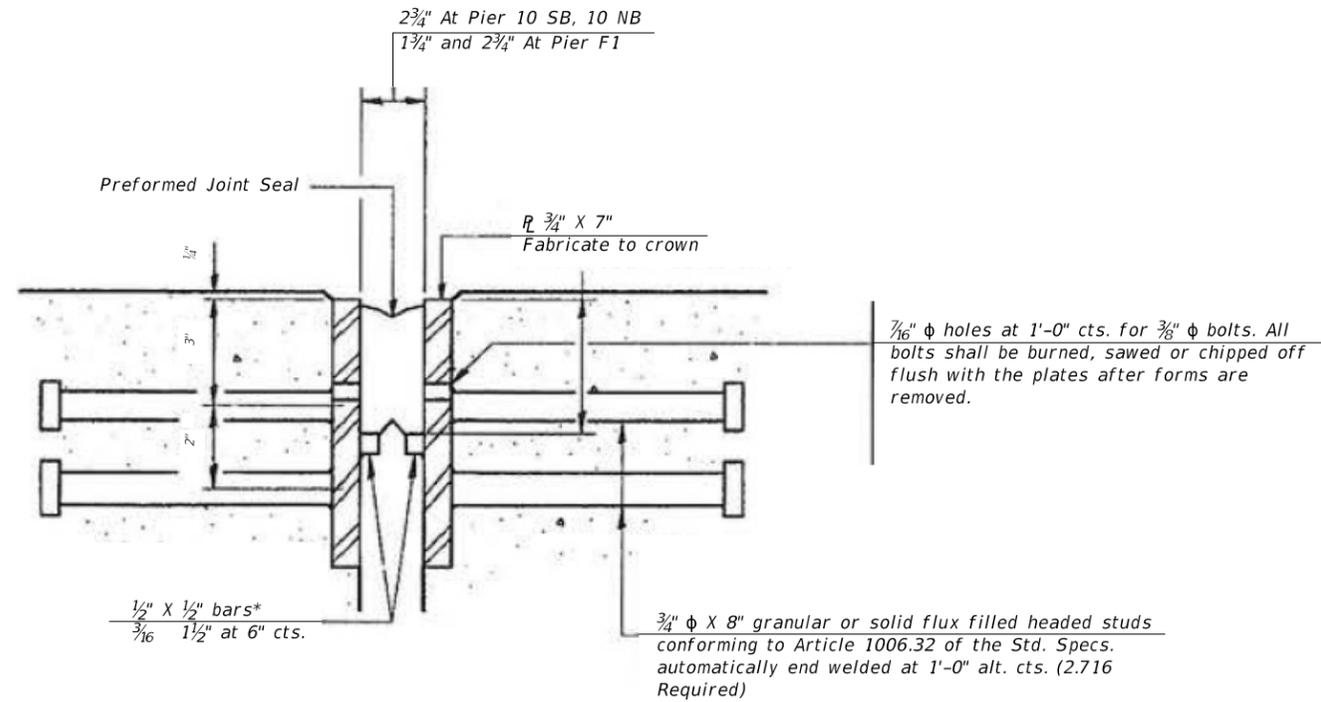
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STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

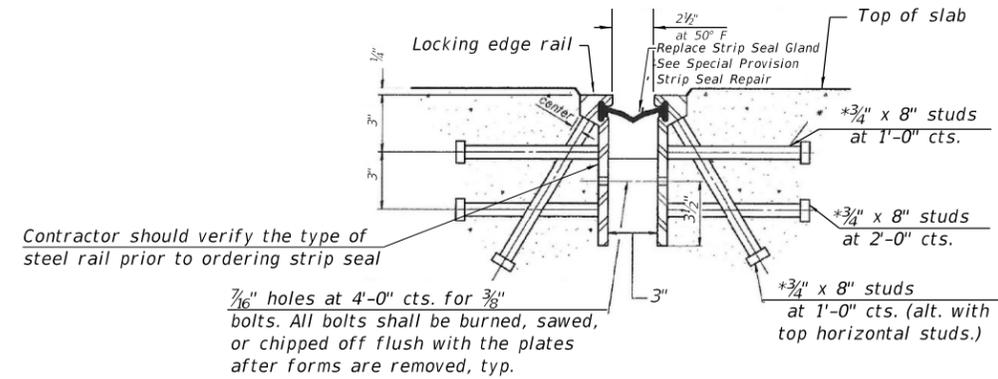
JOINT REPAIR SECTIONS
I-90/94 OVER S BRANCH OF CHICAGO RIVER SN 016-1115

SCALE: SHEET S15-3 OF S15-11 SHEETS STA. TO STA.

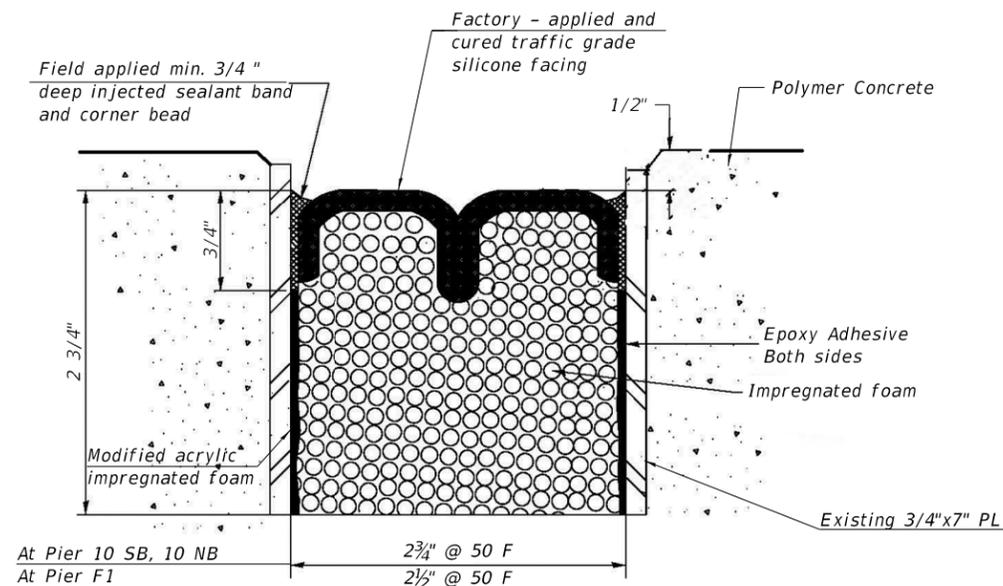
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	99
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



SECTION THRU EXISTING 4" PREFORMED JOINT SEAL
AT PIER 10 SB, PIER 10 NB & PIER F1 SB



PROPOSED STRIP SEAL GLAND TO BE REPLACED
AT PIER 5 SB



PROPOSED PBJS JOINT SEAL
AT PIER 10 SB, PIER 10 NB & PIER F1 SB

Note: The new joint shall be a "Preformed, Pre-compressed, Silicone Coated, Self-Expanding Sealant System" and paid for as Preformed Joint Seal. See special provision "Preformed Bridge Joint Seal" (PBJS).

FILE PATH = F:\1710-746 IDOT District 1\NO 2 Den Rgn Brldge Repairs\Sheet Files\SN 016-1115\0161115-004-Joint Repair Details.dgn



0161115-004-Joint Repair Details.dgn
USER NAME = ahmed.issa
PLOT SCALE =
PLOT DATE = 5/2/2018

DESIGNED - EBK
DRAWN - EBK
CHECKED - RTB
DATE - 03/19/2018

REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF
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JOINT REPAIR DETAILS
I-9094 OVER S BRANCH OF CHICAGO RIVER SN 016-1115
SCALE: SHEET S15-4 OF S15-11 SHEETS STA. TO STA.

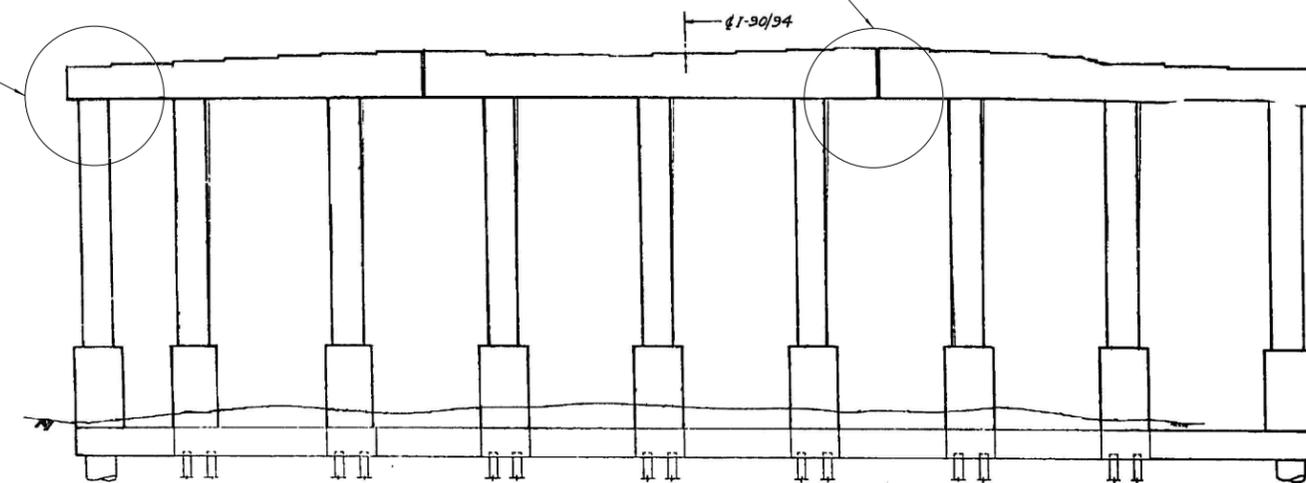
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	100
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repair	FOOT	214

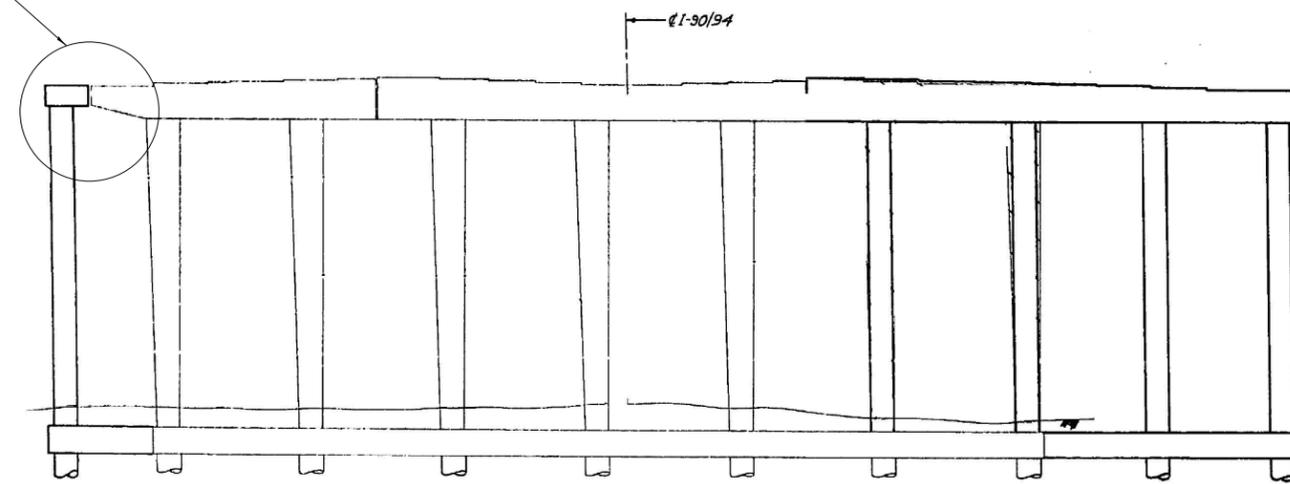
Drain pipe section broken to be replaced (10'-0")

Drain pipe section broken to be replaced (5'-0")

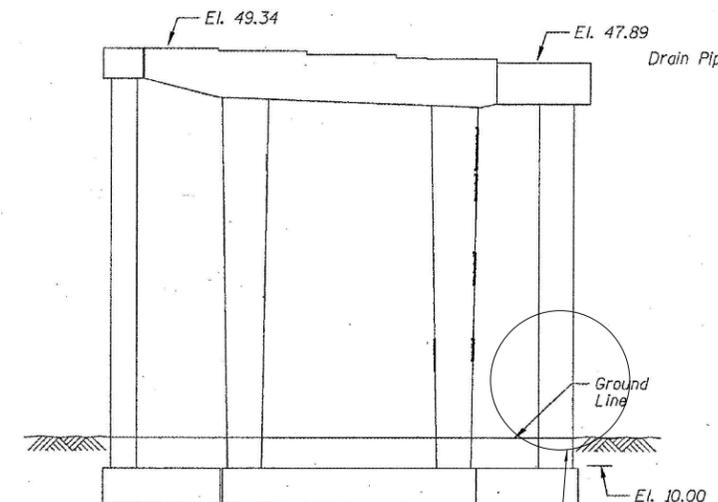


PIER 1
(Looking West)

Drain pipe section broken to be replaced (2'-0")



PIER 2
(Looking West)



PIER E-1 SOUTH ELEVATION
(Looking North)

Drain pipe section broken to be replaced (5'-0")

DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractors responsibility to verify the locations 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.
2. 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.
3. When existing drain pipes are wrapped with tape, the tape shall be removed, if the pipe is broken or missing a connection, the pipe shall be replaced or otherwise new tape shall be provided. The type of tape shall be approved by the Engineer. The cost shall be included in "Bridge Drainage System Repairs" and the length measured shall be the length of the pipe replaced or length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see General Plan and Elevation Sheet.

FILE PATH = F:\1710-746 IDOT District 1\NO 2 Den Rgn Bridge Repairs\Sheet Files\SN 016-1115\0161115-005 Downspout Repairs PE1.P1.P2.dgn



0161115-005-Downspout Repairs PE1.P1.P2.dgn
 USER NAME = ahmed.issa
 PLOT SCALE =
 PLOT DATE = 5/2/2018

DESIGNED - DA
 DRAWN - HI
 CHECKED - RTB
 DATE - 03/19/2018

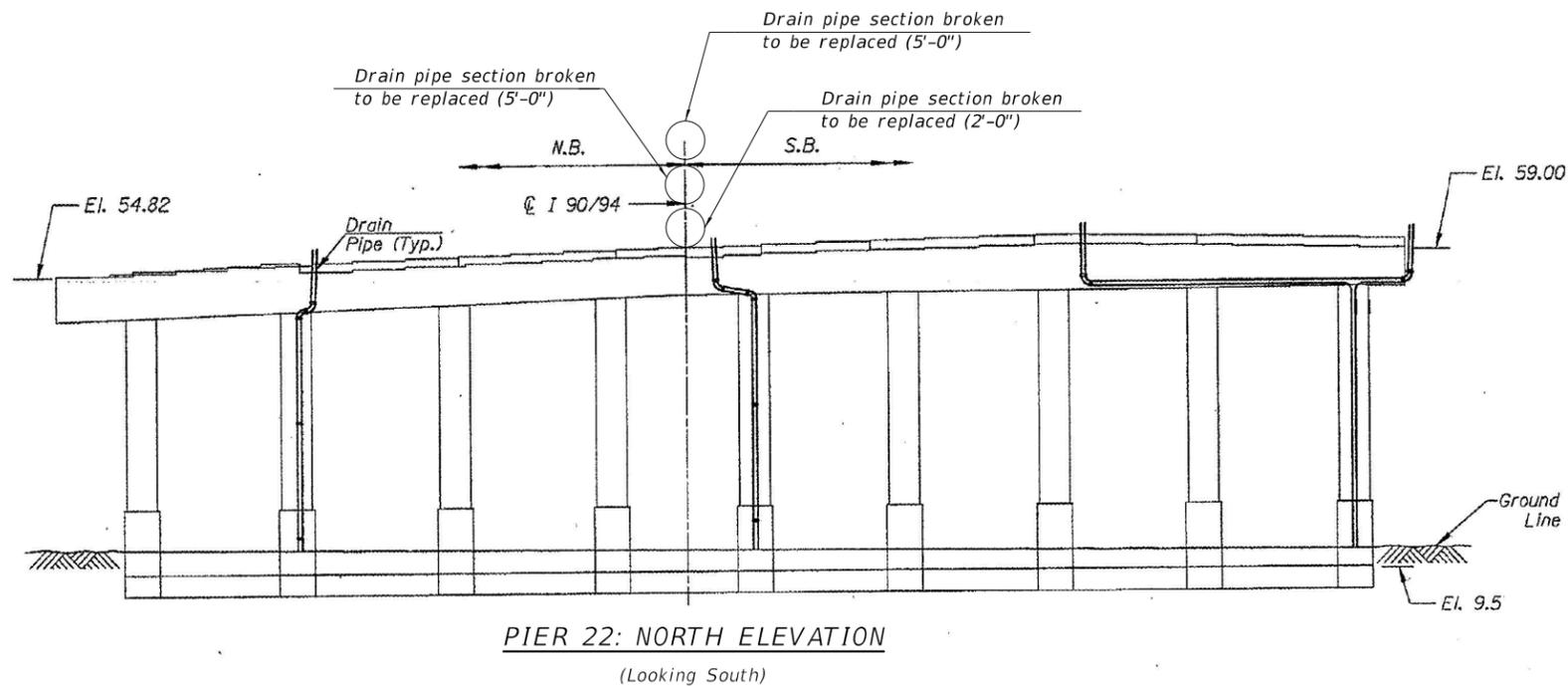
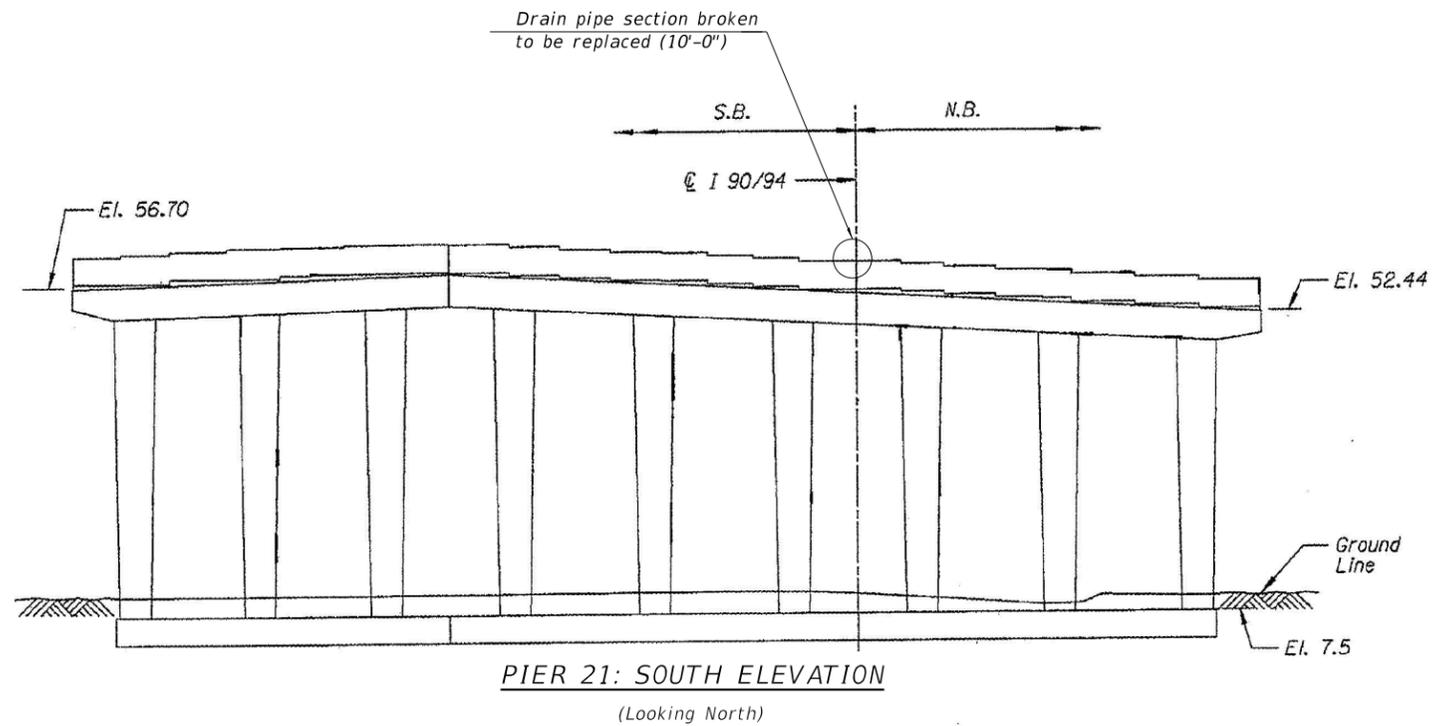
REVISED -
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 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

DOWNSPOUT REPAIRS PIER E1, 1, 2
I-90/94 OVER S BRANCH OF CHICAGO RIVER SN 016-1115

SCALE: SHEET S15-5 OF S15-11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	101
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



DRAINAGE REPAIR NOTES

1. For notes and bill of materials, see sheet S15-5

FILE PATH = P:\1710-746 IDOT District 1\NO 2 Den Rgn Bridge Repairs\Sheet Files\SN 016-1115\0161115-006-Downspout Repairs P21 and P22.dgn



0161115-006-Downspout Repairs P21 and P22.dgn
 USER NAME = ahmed.issa
 PLOT SCALE =
 PLOT DATE = 5/2/2018

DESIGNED - DA
 DRAWN - HI
 CHECKED - RTB
 DATE - 03/19/2018

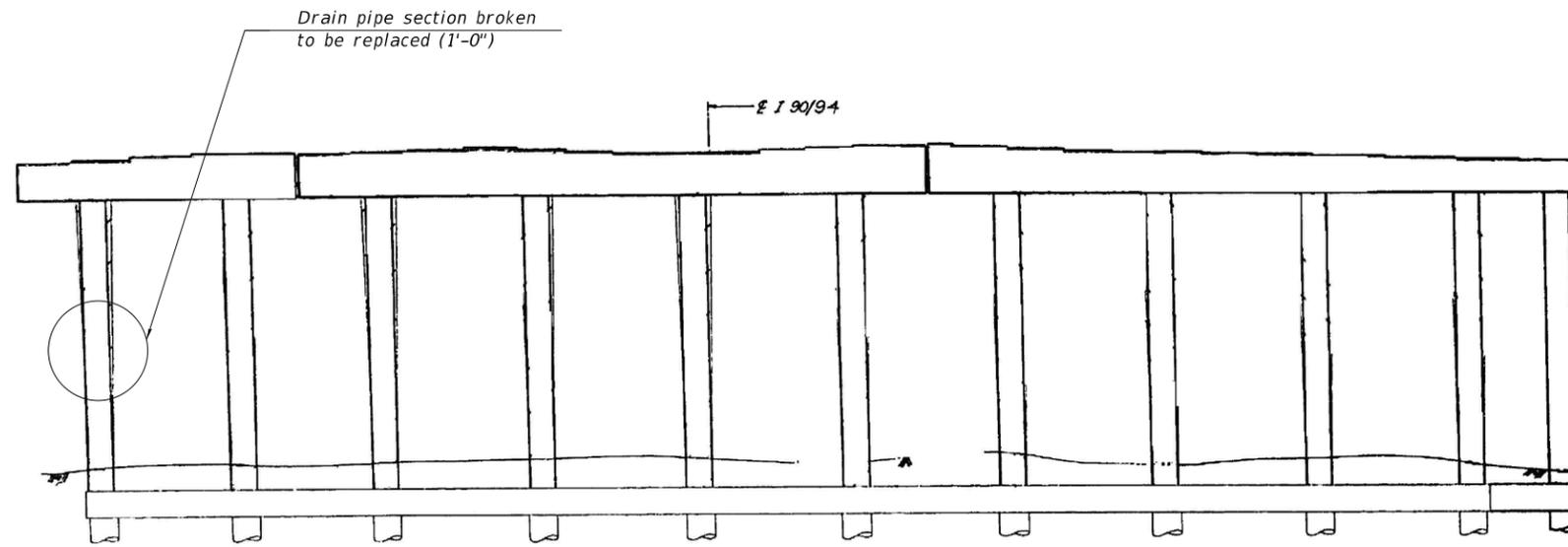
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STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

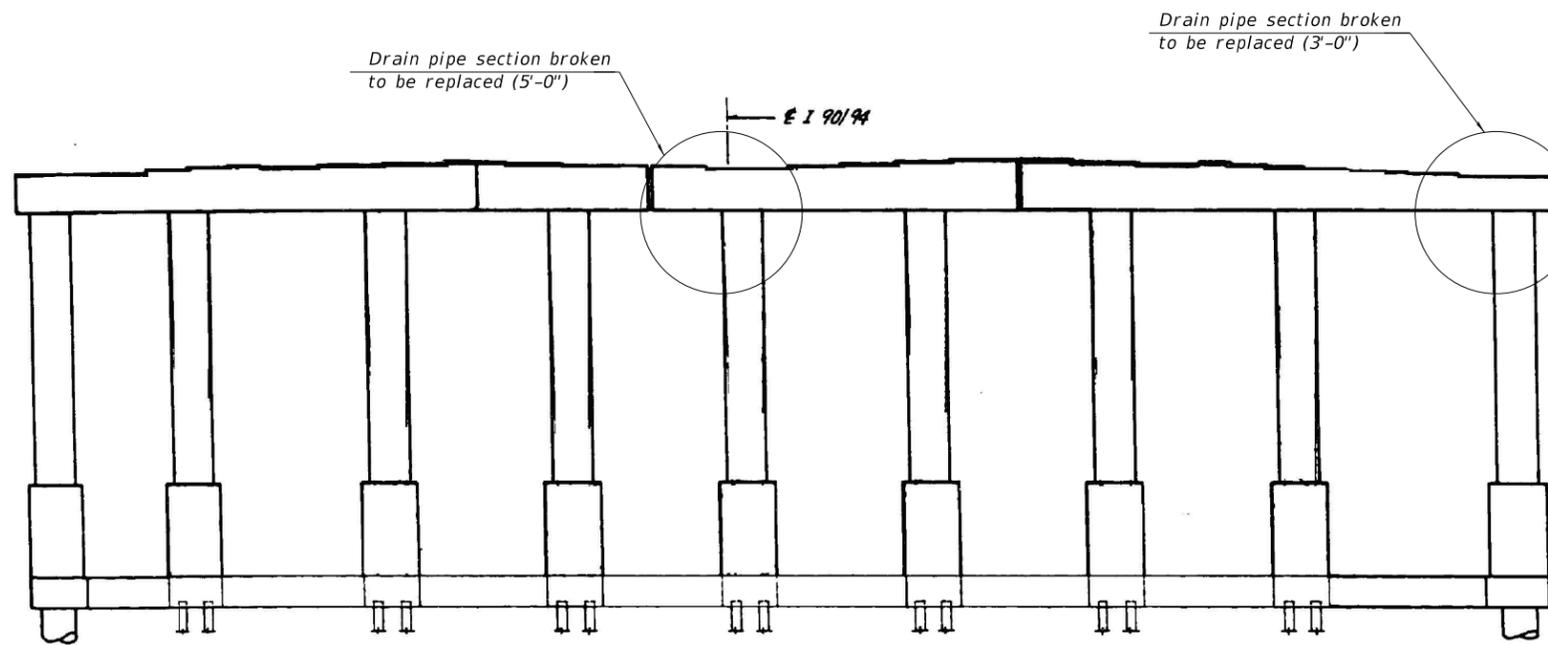
DOWNSPOUT REPAIRS PIER 21, 22
I-90/94 OVER S BRANCH OF CHICAGO RIVER SN 016-1115

SCALE: SHEET S15-6 OF S15-11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	102
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



PIER 5
Looking North



PIER 3
Looking North

DRAINAGE REPAIR NOTES

1. For notes and bill of materials, see sheet S15-5 .

FILE PATH = P:\1710-746 IDOT District 1\NO 2 Den Rign Bridge Repairs\Sheet Files\SN 016-1115\0161115-007-Downspout Repairs P3, P5.dgn



0161115-007-Downspout Repairs P3, P5.dgn
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 PLOT SCALE =
 PLOT DATE = 5/2/2018

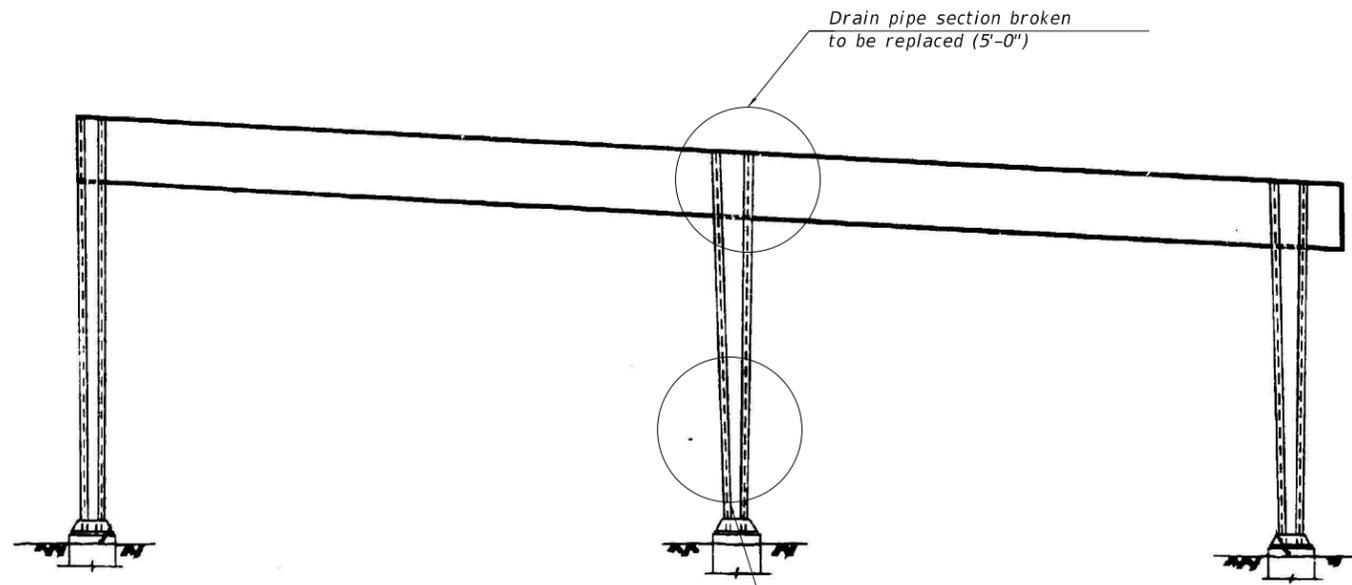
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 DRAWN - HI
 CHECKED - RTB
 DATE - 03/19/2018

REVISED -
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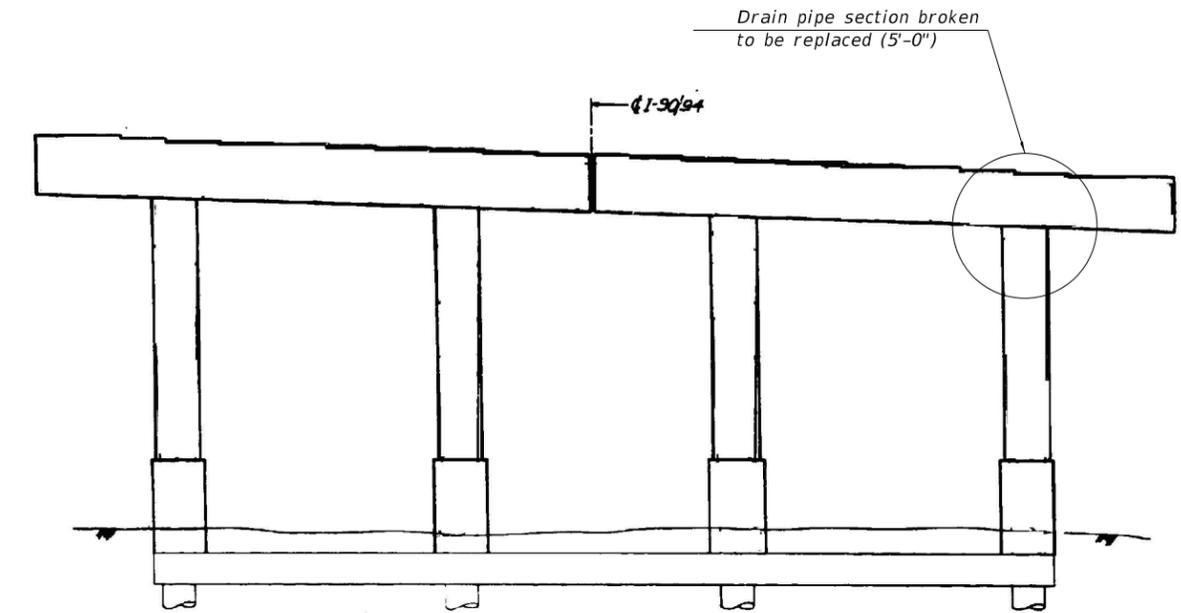
STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

DOWNSPOUT REPAIRS PIER 3, 5
I-90/94 OVER S BRANCH OF CHICAGO RIVER SN 016-1115
 SCALE: SHEET S15-7 OF S15-11 SHEETS STA. TO STA.

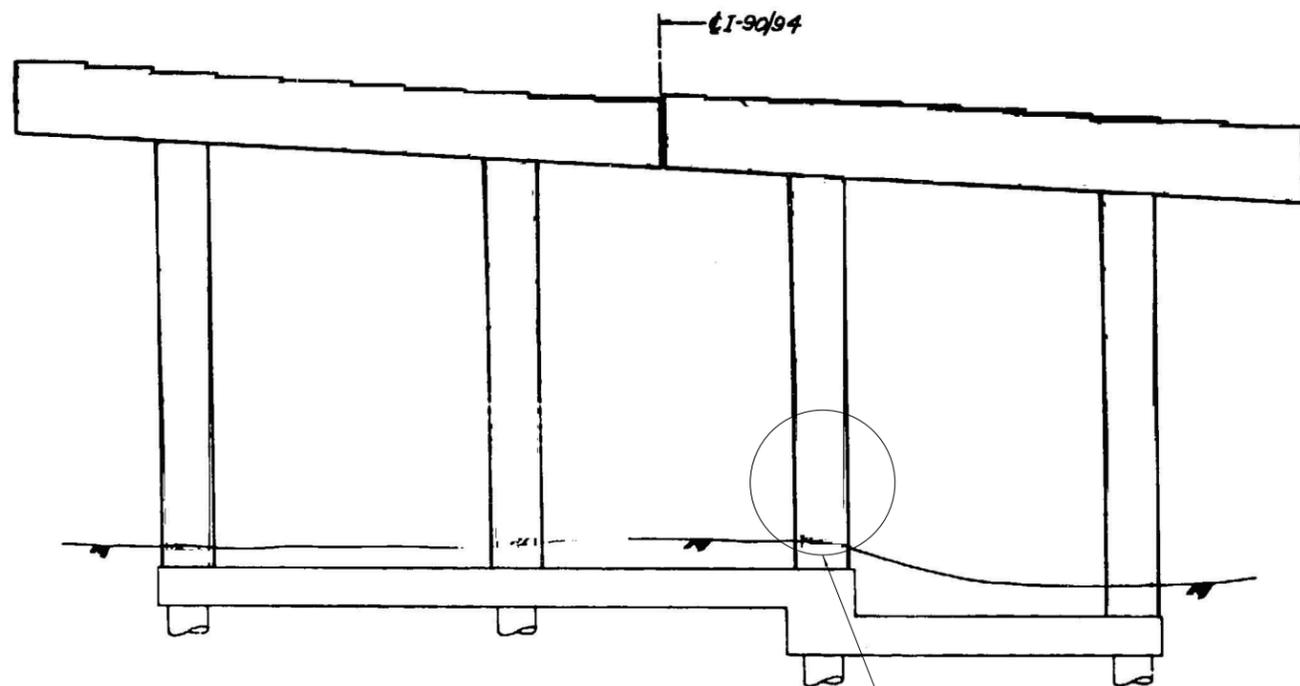
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	103
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



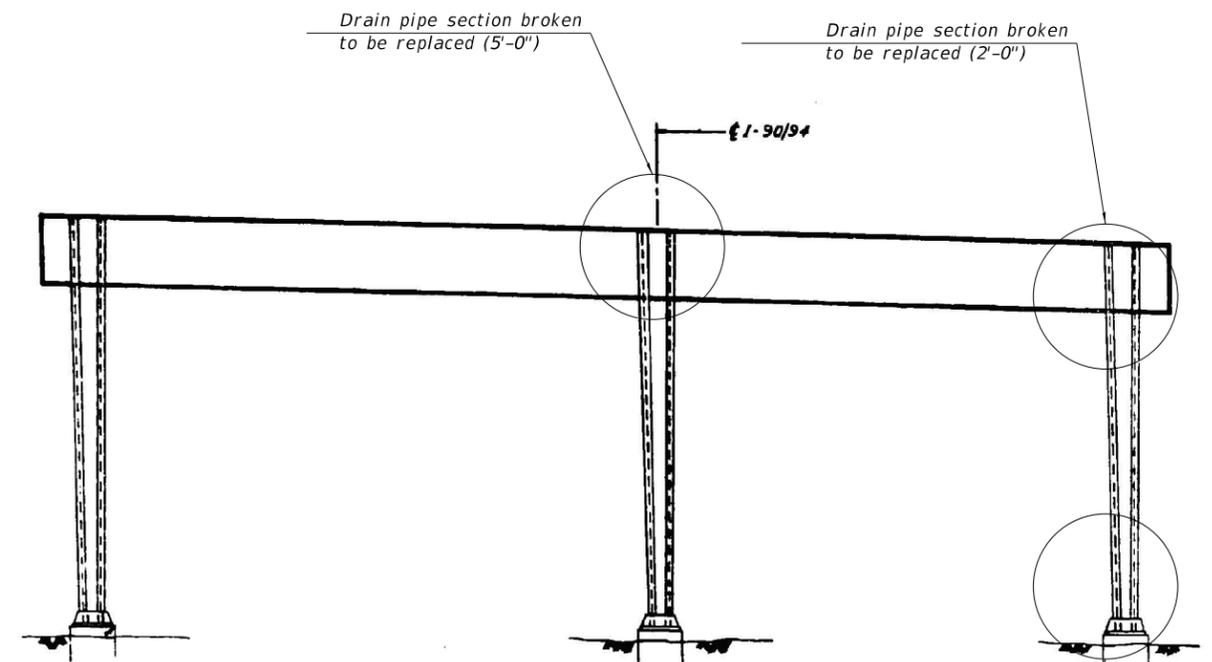
PIER 14
(Looking North)



PIER 9
(Looking North)



PIER 10
(Looking North)



PIER 8
(Looking North)

DRAINAGE REPAIR NOTES

- For notes and bill of materials, see sheet S15-5

FILE PATH = P:\1710-746 IDOT District 1\NO 2 Den Rgn B-ridge Repairs\Sheet Files\SN 016-1115\0161115-008-Downspout Repairs PB, P9, P10, P14.dgn



0161115-008-Downspout Repairs PB, P9, P10, P14.dgn
 USER NAME = ahmed.issa
 PLOT SCALE =
 PLOT DATE = 5/2/2018

DESIGNED - DA
 DRAWN - HI
 CHECKED - RTB
 DATE - 03/19/2018

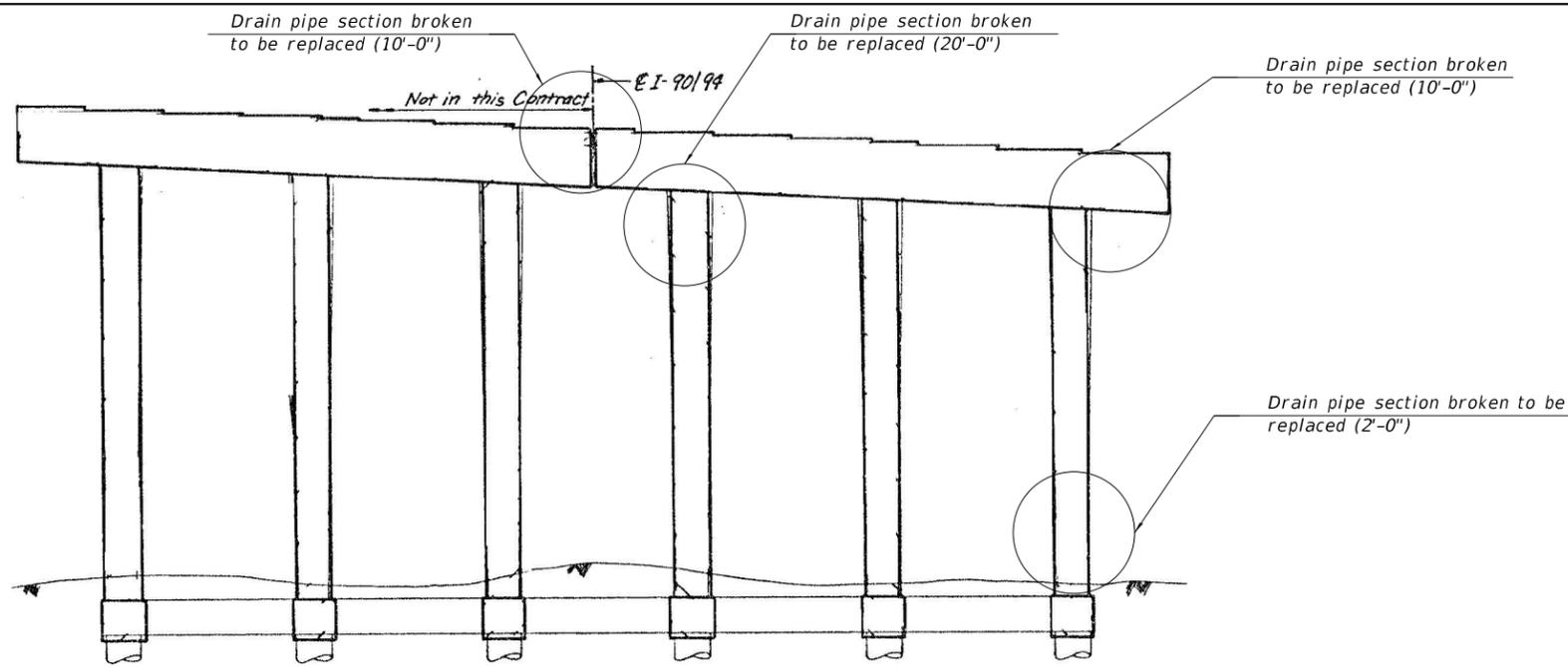
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STATE OF ILLINOIS
 DEPARTMENT OF
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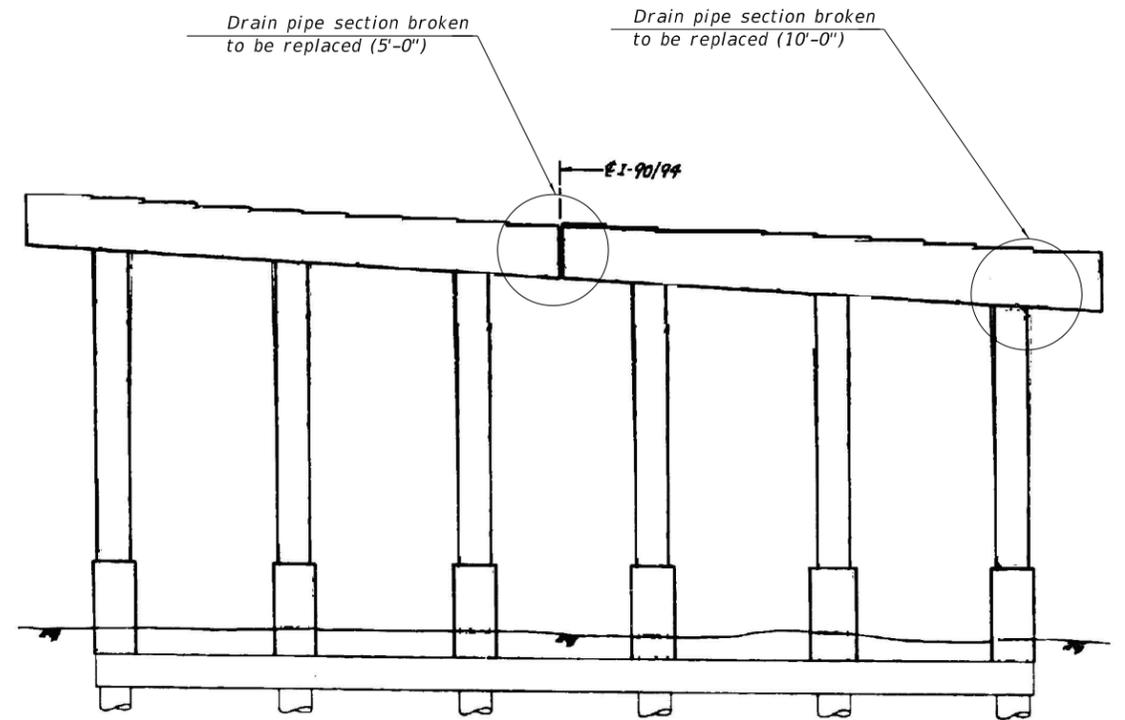
DOWNSPOUT REPAIRS PIER 8, 9, 10, 14
I-90/94 OVER S BRANCH OF CHICAGO RIVER SN 016-1115

SCALE: SHEET S15-8 OF S15-11 SHEETS STA. TO STA.

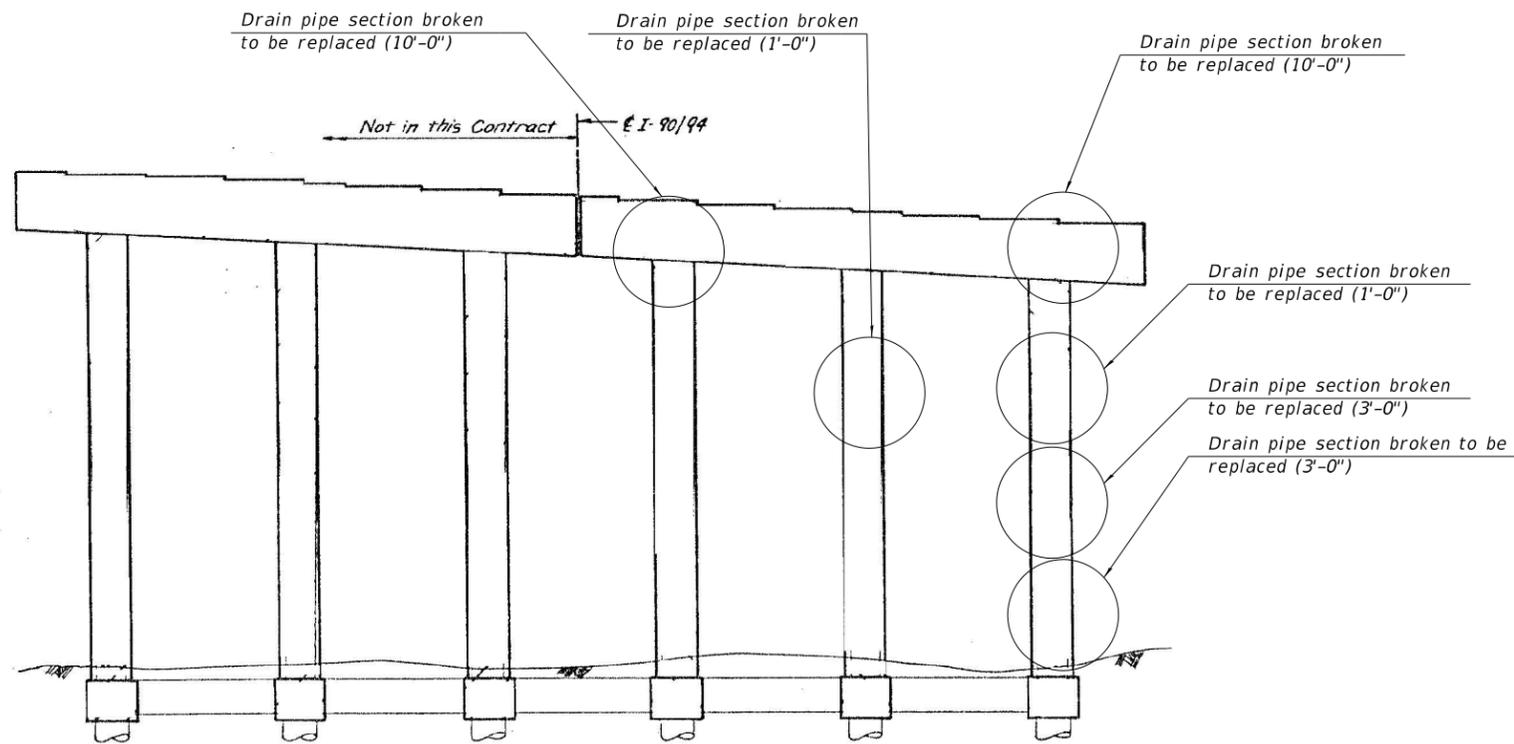
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	104
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



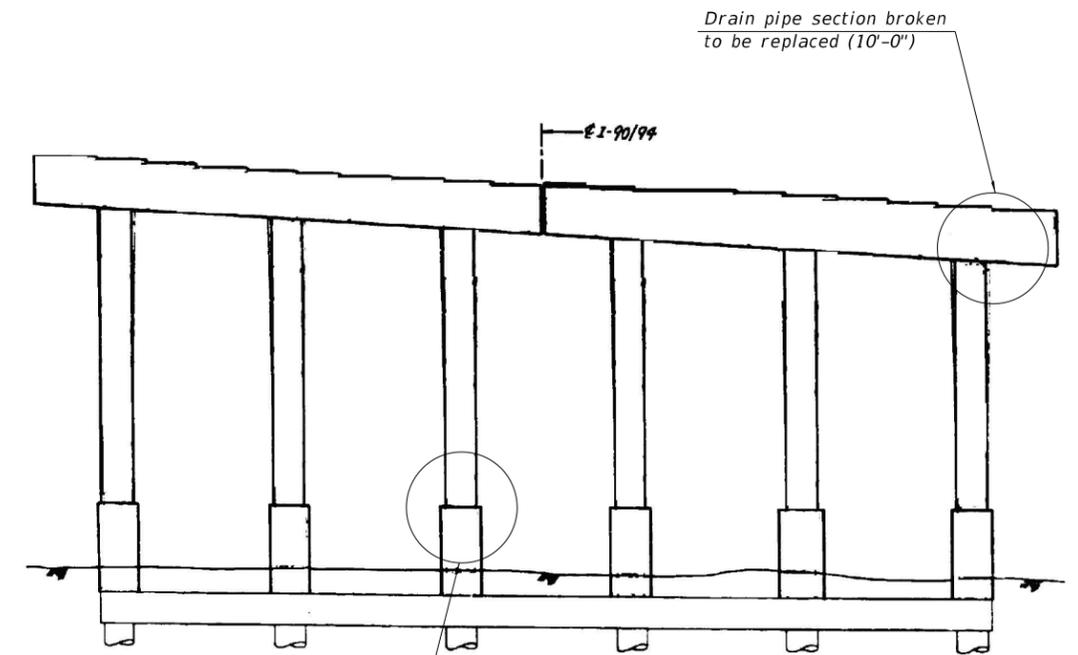
Pier 18



Pier 15



Pier 20
(Looking North)



Pier 16

DRAINAGE REPAIR NOTES

1. For notes and bill of materials, see sheet S15-5

FILE PATH = F:\1710-746 IDOT District 1\NO 2 Den Rign Bridge Repairs\Sheet Files\SN 016-1115\0161115-009-Downspout Repairs P15, P16, P18, P20.dgn



0161115-009-Downspout Repairs P15, P16, P18, P20.dgn
 USER NAME = ahmed.issa
 PLOT SCALE =
 PLOT DATE = 5/2/2018

DESIGNED - DA
 DRAWN - HI
 CHECKED - RTB
 DATE - 03/19/2018

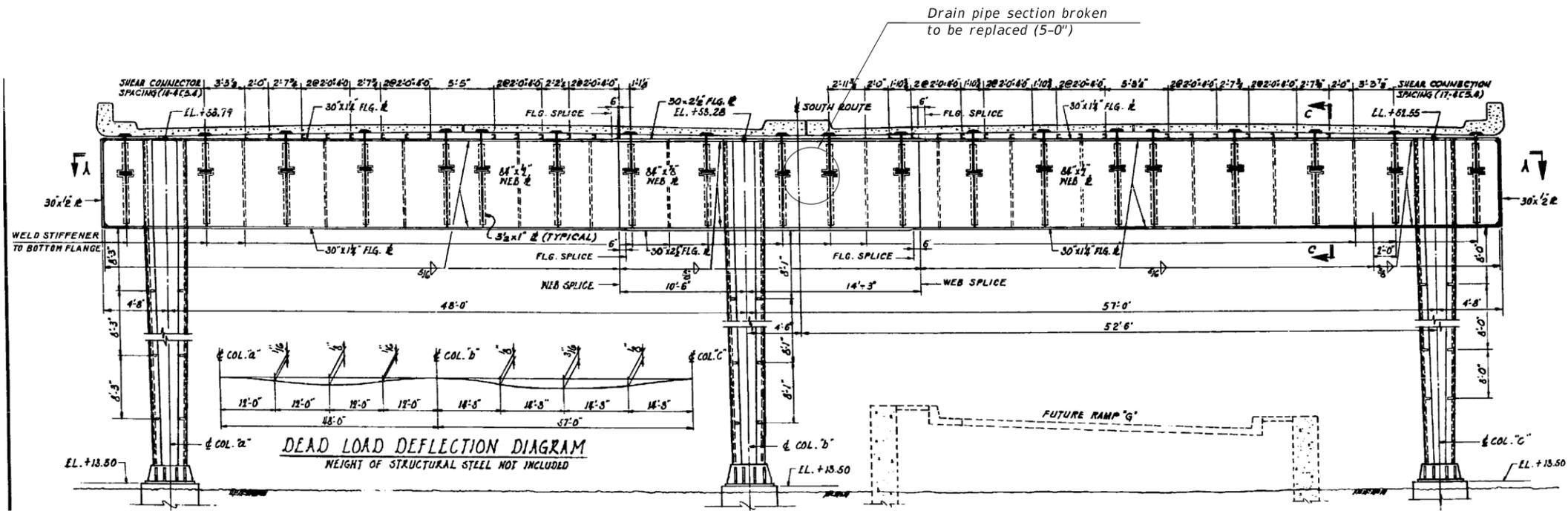
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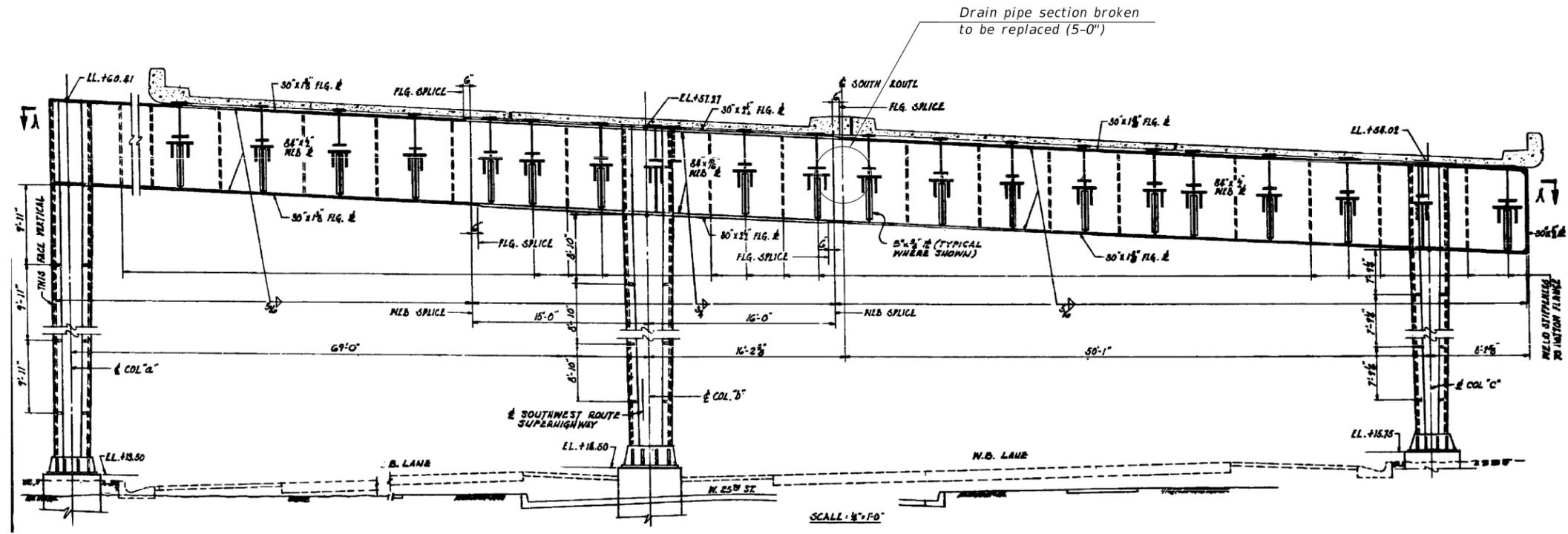
**DOWNSPOUT REPAIRS PIER 15, 16, 18, 20
 I-90/94 OVER S BRANCH OF CHICAGO RIVER SN 016-1115**

SCALE: SHEET S15-9 OF S15-11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	105
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



PIER 7: ELEVATION



PIER 13: ELEVATION

DRAINAGE REPAIR NOTES

- For notes and bill of materials, see sheet S15-5

FILE PATH = P:\1710-746 IDOT District 1\NO 2 Dam Rgn Bridge Repairs\Sheet Files\SN 016-1115\0161115-010 Downspout Repairs P7 and P13.dgn

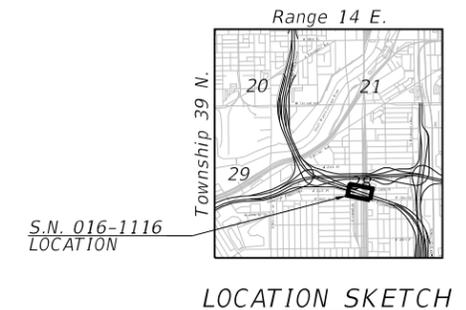
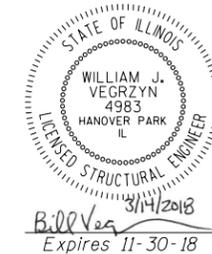
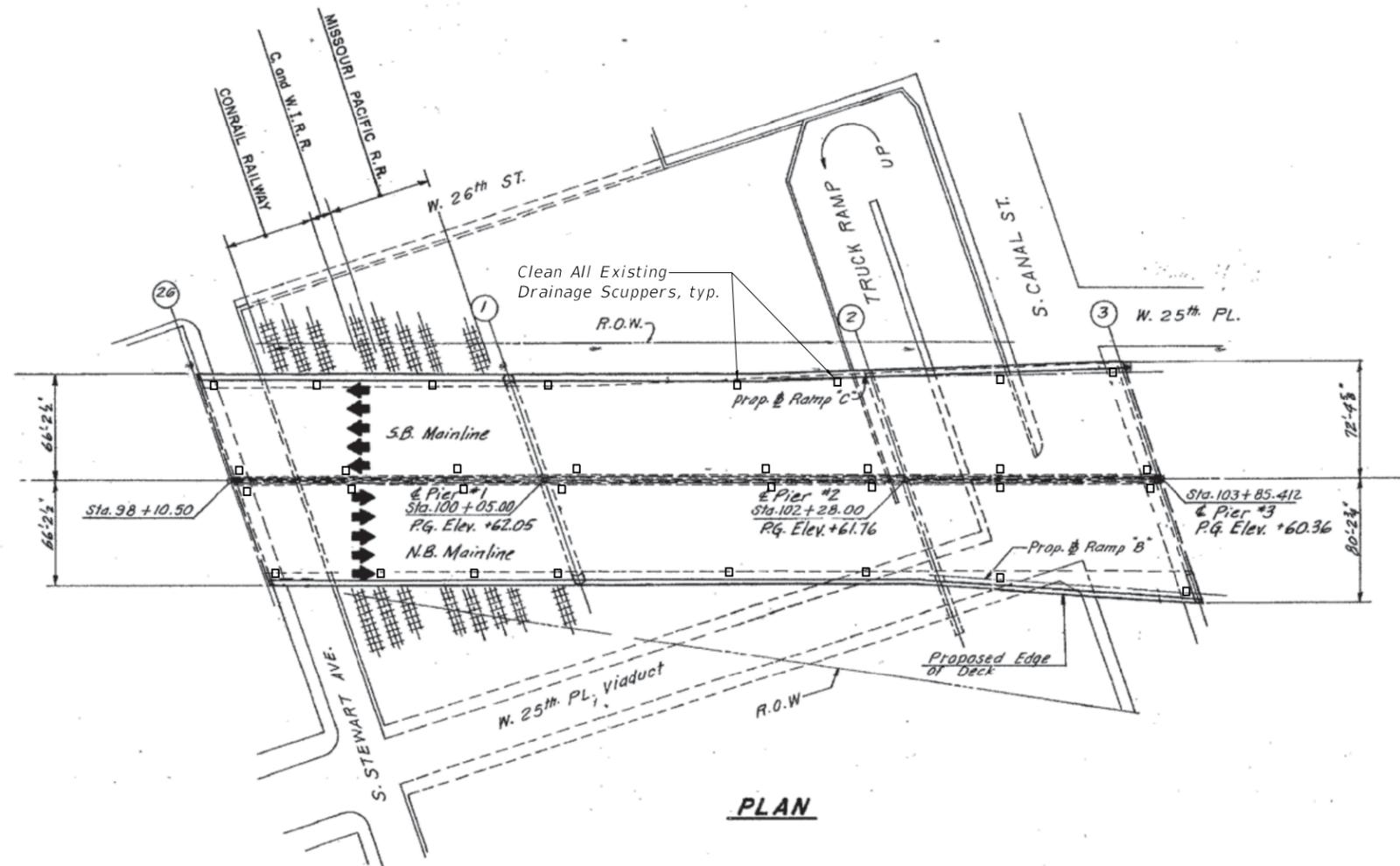
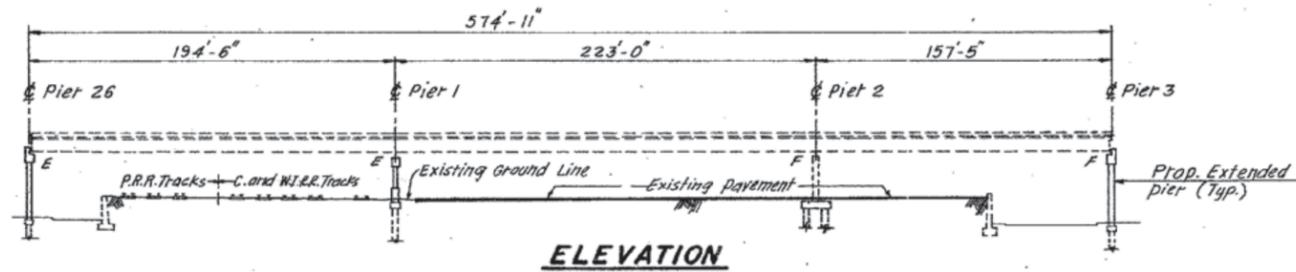


0161115-010-Downspout Repairs P7 and P13.dgn	DESIGNED - DA	REVISED -
USER NAME = ahmed.issa	DRAWN - HI	REVISED -
PLOT SCALE =	CHECKED - RTB	REVISED -
PLOT DATE = 5/2/2018	DATE - 03/19/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

DOWNSPOUT REPAIRS PIER 17, 13	
I-9094 OVER S BRANCH OF CHICAGO RIVER SN 016-1115	
SCALE:	SHEET S15-10 OF S15-11 SHEETS STA. TO STA.

F.A.P. RTE. 94	SECTION 2018-008-BJR	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 106
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



FILE PATH = N:\2018\16045\01\CD\Drawings\016-1116\0161116-001-GPE.dgn



V3 Companies
7325 Janes Avenue
Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
www.v3co.com

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CHECKED - WV	REVISED -
DATE - 03/14/2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
I-90 /94 OVER CANAL ST. AND RAILROAD YARD SN 016-1116

SCALE: SHEET S16-1 OF S16-2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	108
CONTRACT NO. 62G16				

ILLINOIS FED. AID PROJECT

GENERAL NOTES:

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF DRAWINGS

- S16-1 General Plan and Elevation
- S16-2 General Notes, Index of Sheets and Miscellaneous Details

TOTAL BILL OF MATERIAL

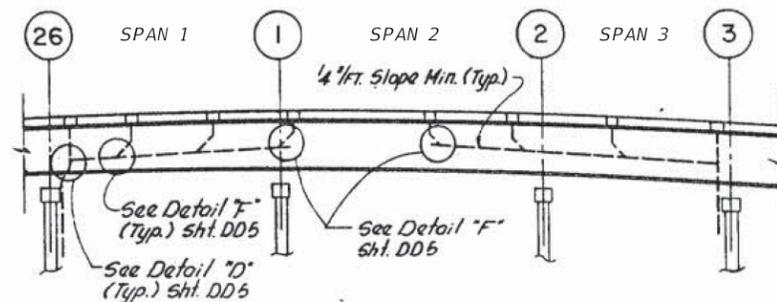
ITEM	UNIT	QUANTITY
Cleaning Bridge scuppers and downspouts	Each	32
Bridge Drainage System Repairs	Foot	156

SN 016-1116 SCOPE OF WORK

1. Remove and replace broken and/or missing Drain pipes at several locations (see table below)
2. Clean all deck drainage scuppers (16 NB and 16 SB).

DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically it shall be the Contractor's responsibility to verify the locations and details prior to ordering the material. Such variations shall not be cause for additional compensation for a change in the scope work, however the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
2. 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.
3. When existing drain pipes are wrapped with tape, the tape shall be removed, if the pipe is broken or missing a connection, the pipe shall be replaced or otherwise new tape shall be provided. The type of tape shall be approved by the Engineer. The cost shall be included in "Bridge Drainage System Repairs" and the length measured shall be the length of the pipe replaced or length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. See details on this sheet for repair locations.



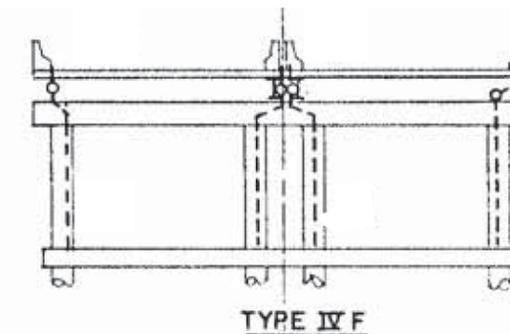
AT SPAN 26 & 2 (STR # 1116)

LONGITUDINAL RUN
(Looking South)

***LONGITUDINAL DRAIN PIPE REPAIRS**

SPAN	LOCATION OF LONGITUDINAL RUN	QUANTITY (Foot)
1	Center	30
1	Center	30
1	North	10
2	Center	5
2	North	10
2	North	5
2	North	10
2	Center	3
2	South	8
3	South	5
3	Center	15
3	Center	10
3	North	10

*Replace/Repair broken or cracked drain pipe
Cost included with Bridge Drainage System Repairs



PIER 3-EAST ELEVATION
(Looking West)

FILE PATH = N:\2018\16045\01\CD\Drawings\016-1116-002-GenNotesBOM.dgn



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Woodridge, IL 60517
630.724.9200 phone
630.724.9202 fax
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CHECKED - WV	REVISED -
DATE - 03/14/2018	REVISED -

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DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS AND MISCELLANEOUS DETAILS
I-90 /94 OVER CANAL ST. AND RAILROAD YARD SN 016-1116

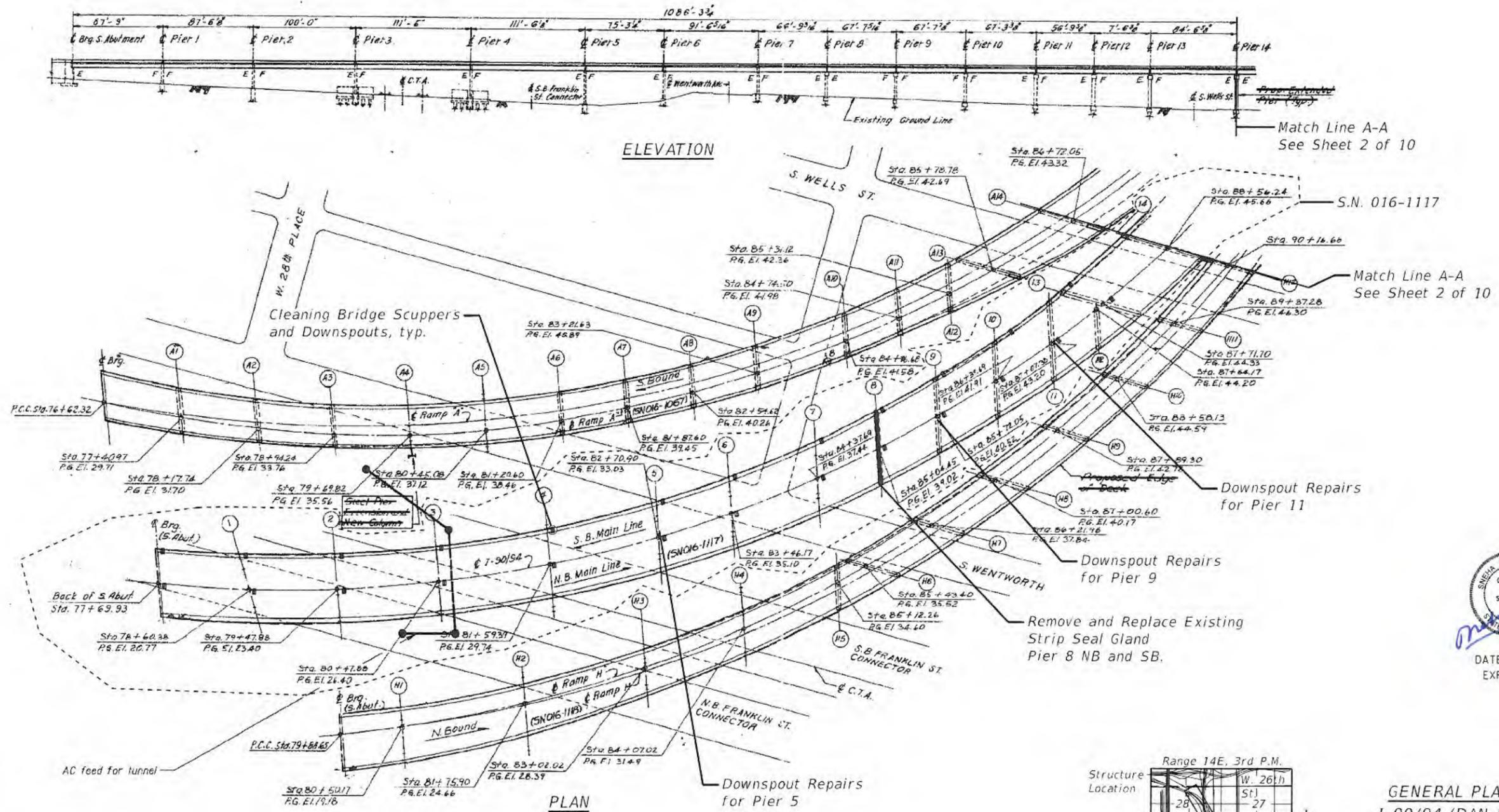
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	109
				CONTRACT NO. 62G16
ILLINOIS FED. AID PROJECT				

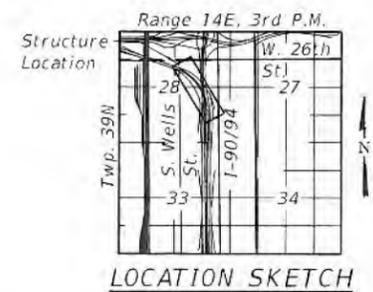
Existing Structure: Existing S.N. 016-1117 Carrying Mainline I-90/94 Elevated Express Lanes over Stewart St. to 29th St. was originally built in 1962 under Section No. S-2424.3-4H and reconstructed in 1989 under Section No. 1985-077R. Existing Structure has 26 total spans. Overall length of the bridge is approximately 2040'-7". Out-to-Out width of the bridge varies from approximately 65'-9" to 132'-4". The bridge is on a curved alignment.

Traffic will be maintained utilizing staged construction during repair work.

No Salvage.



DATE SIGNED: 05/02/2018
EXP. DATE: 11/30/2018



GENERAL PLAN AND ELEVATION
I-90/94 (DAN RYAN EXPRESSWAY)
OVER STEWART ST. TO 29TH ST.
F.A.I. 94
SECTION 2018-008-BJR
COOK COUNTY
STRUCTURE NO. 016-1117

MODEL: Default
FILE NAME: O:\Projects\mpt\veh\mpt\13000_IDOT_DIUR_HBR\Work Order 210ADD\CADD_Struct\Structure\016-1117-01_EPR.dgn
5/2/2018 5:38:59 PM



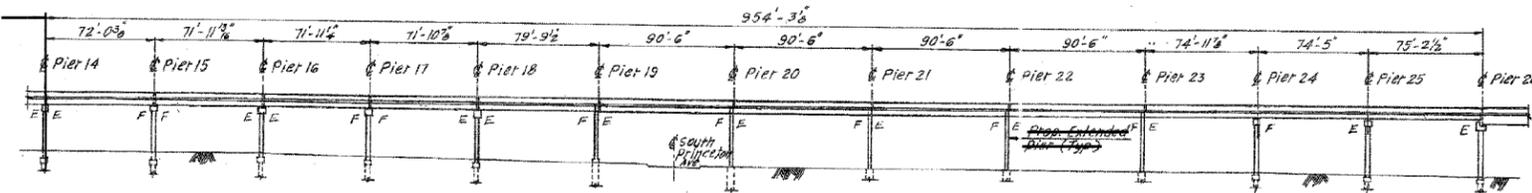
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PLOT SCALE =	CHECKED - JMT	REVISED -
PLOT DATE =	DRAWN - SAT	REVISED -
	CHECKED - SPS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

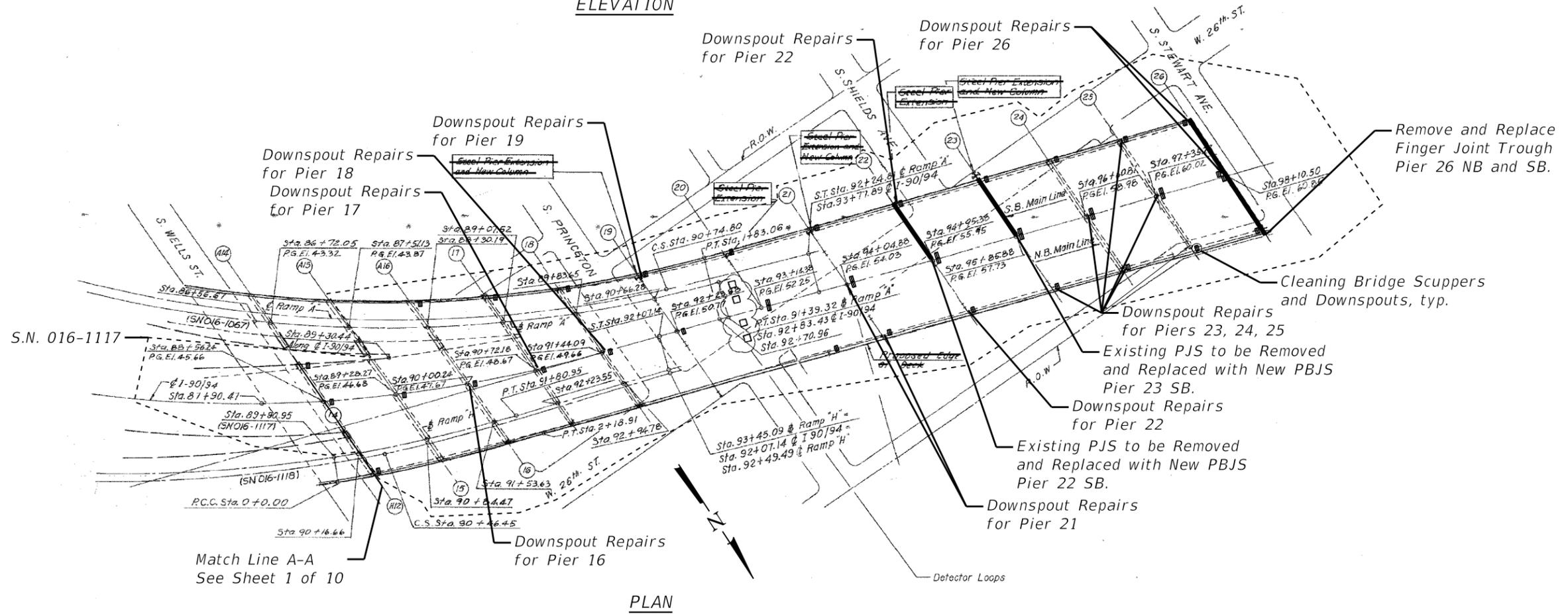
F.A.I. RTE. 94	SECTION 2018-008-BJR	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 110
CONTRACT NO. 62G16				

ILLINOIS FED. AID PROJECT

Match Line A-A
See Sheet 1 of 10



ELEVATION



PLAN

Match Line A-A
See Sheet 1 of 10

GENERAL PLAN AND ELEVATION - II
I-90/94 (DAN RYAN EXPRESSWAY)
OVER STEWART ST. TO 29TH ST.

F.A.I. 94
SECTION 2018-008-BJR
COOK COUNTY
STRUCTURE NO. 016-1117

MODEL: Default
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PLOT DATE =	CHECKED - SPS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET S17-2 OF S17-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	111
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

CONSTRUCTION

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2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

S.N. 016-1117 SCOPE OF WORK

1. Remove and Replace Finger Joint Troughs at NB Pier 26 and SB Pier 26.
2. Remove and Replace Strip Seal Glands at NB Pier 8 and SB Pier 8.
3. Remove and Replace existing Preformed Joint Seal with new Preformed Joint Seal per the Preformed Bridge Joint Seal Special Provision (PBJS) at SB Pier 22 and SB Pier 23.
4. Clean all scuppers and downspouts (31 SB and 34 NB).
5. Remove and Replace broken and/or missing Drain Pipes at various locations.

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Preformed Joint Seal, 3"	Foot	139
Strip Seal Gland Replacement	Foot	69.5
Cleaning Bridge Scuppers and Downspouts	Each	65
Bridge Drainage System Repair	Foot	319

INDEX OF SHEETS

- S17-1. General Plan and Elevation
- S17-2. General Plan and Elevation - II
- S17-3. General Notes, Index of Sheets and Bill of Materials
- S17-4. Existing Joint Elevations
- S17-5. Joint Replacement Details
- S17-6. NB Pier 26 - Finger Joint Trough Replacement Details
- S17-7. SB Pier 26 - Finger Joint Trough Replacement Details
- S17-8. Pier 5, 9, 11, 16 Downspout Repairs
- S17-9. Pier 17, 18, 19, 21 Downspout Repairs
- S17-10. Pier 22, 23, 24, 25, 26 Downspout Repairs

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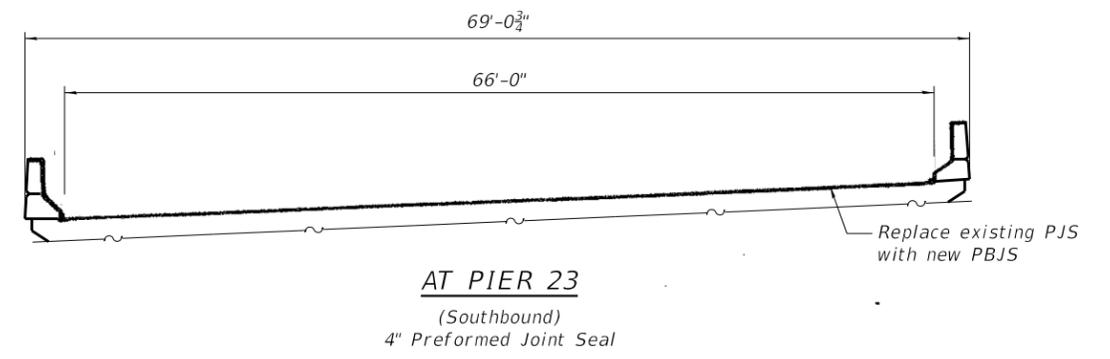
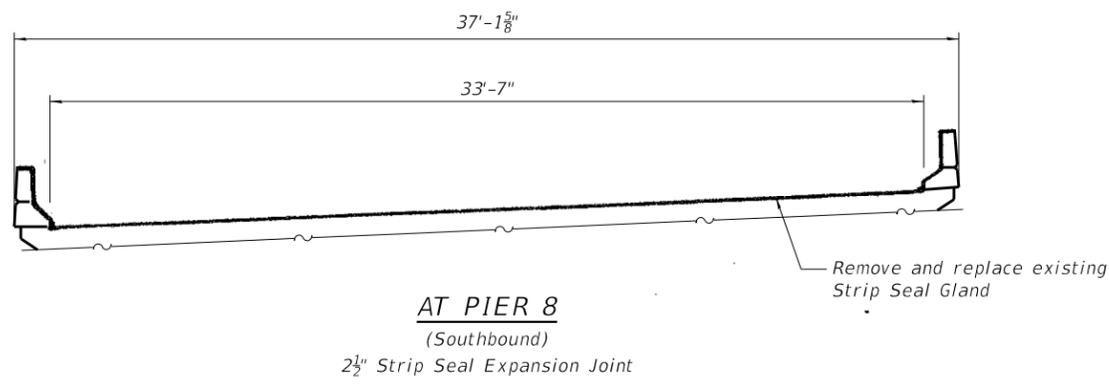
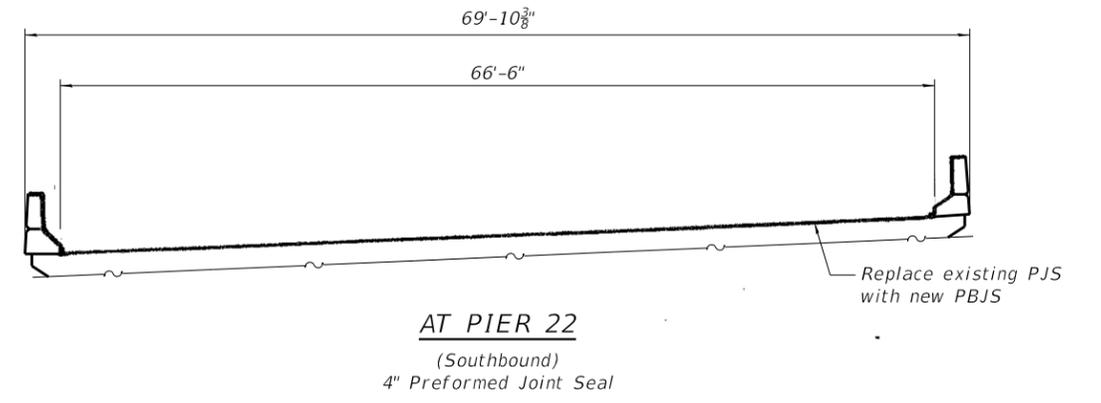
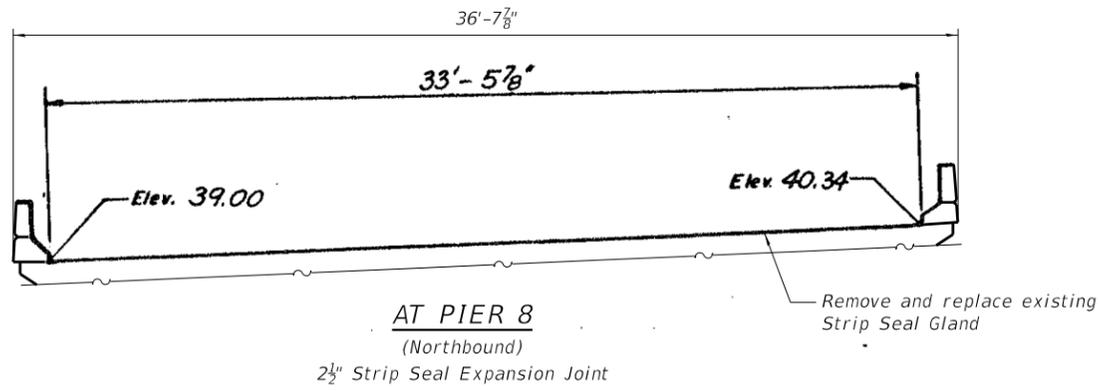


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIALS
I-90/94 OVER STEWART ST. TO 29TH ST., S.N.: 016-1117**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	112
CONTRACT NO. 62G16				
		ILLINOIS	FED. AID PROJECT	



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Preformed Joint Seal, 3"	Foot	139
Strip Seal Gland Replacement	Foot	69.5

Notes:

- The length of the Preformed joint Seal is measured from out-to-out of the deck.
- The length of the Strip Seal Gland Replacement is measured from Face to Face of Papaet plus 1'-0".
- For Details of the Joint, See Sheet S17-5 of S17-10.

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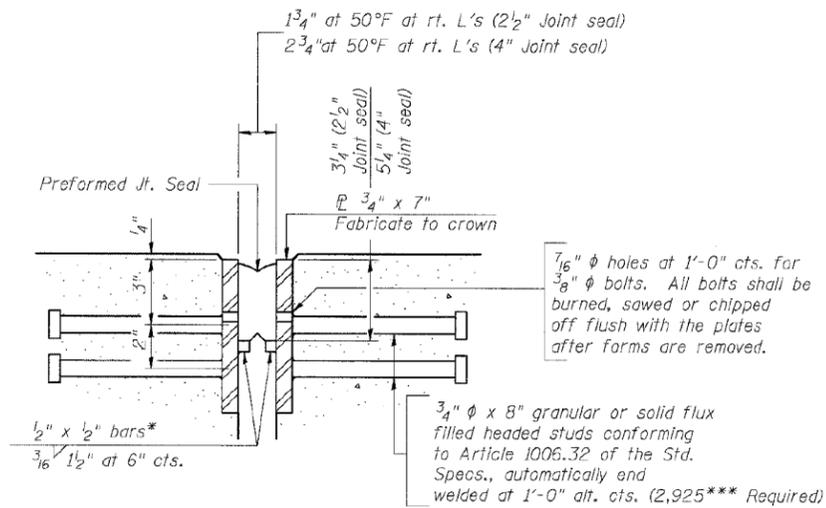
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

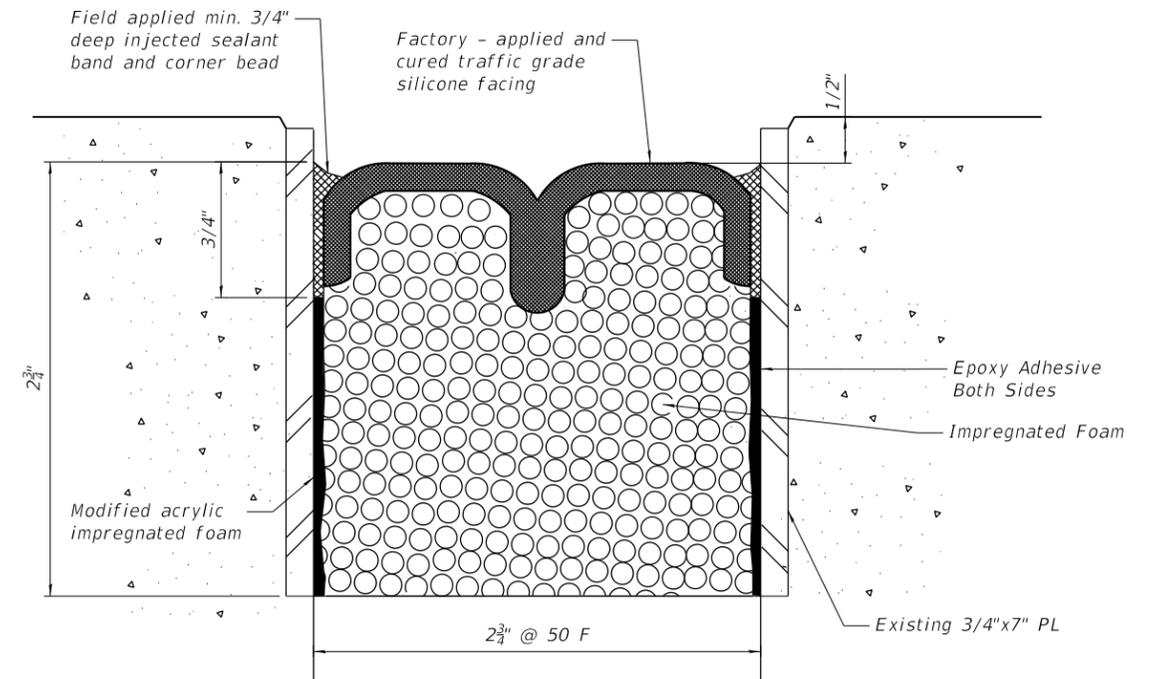
EXISTING JOINT ELEVATIONS
I-90/94 OVER STEWART ST. TO 29TH ST., S.N.: 016-1117

SHEET S17-4 OF S17-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

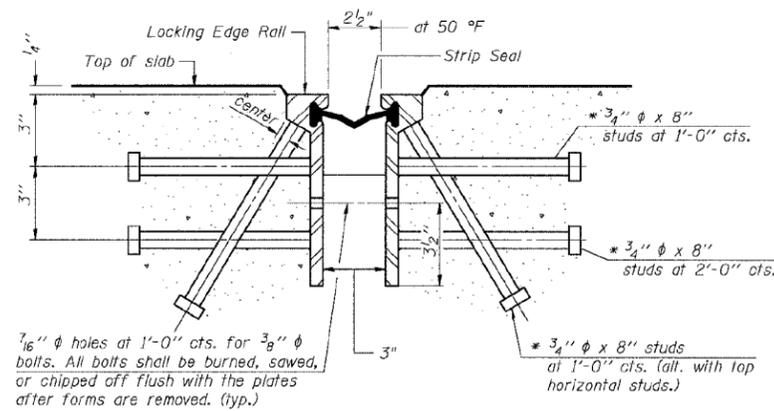


**SECTION THRU EXISTING 4" PREFORMED JOINT SEAL
AT PIERS 22 AND 23 (SOUTHBOUND)**



**PROPOSED PREFORMED BRIDGE JOINT SEAL
AT PIERS 22 AND 23 (SOUTHBOUND)**

Note: The new joint shall be a "Preformed, Pre-compressed, Silicone Coated, Self-Expanding Sealant System" and paid for as Preformed Joint Seal. See Special Provision "Preformed Bridge Joint Seal" (PBJS).



**PROPOSED STRIP SEAL GLAND TO BE REPLACED
AT PIER 8 (NORTHBOUND) AND PIER 8 (SOUTHBOUND)**

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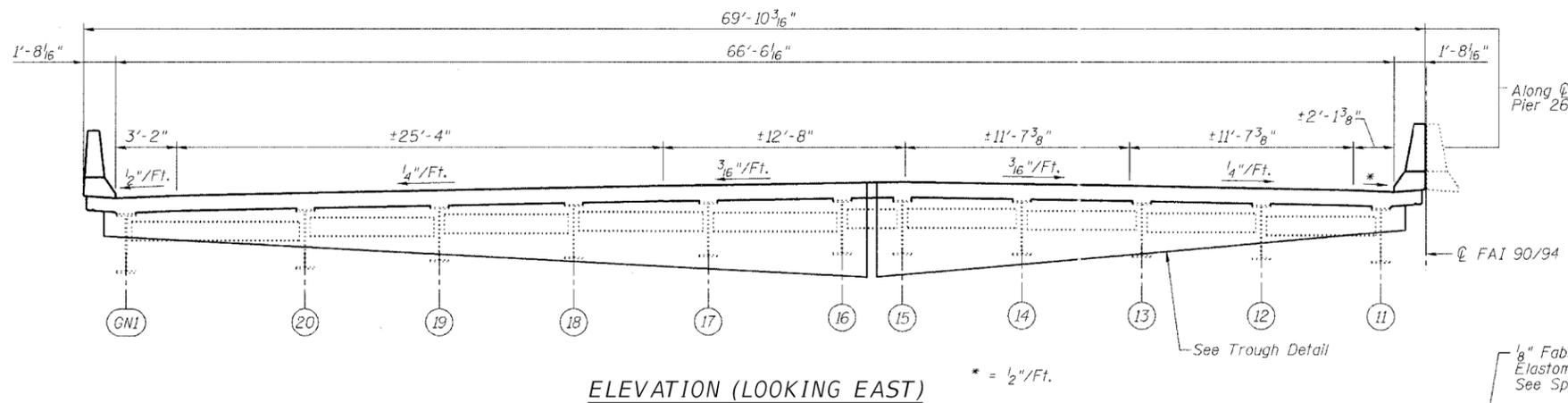
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REPLACEMENT DETAILS
I-90/94 OVER STEWART ST. TO 29TH ST., S.N.: 016-1117**

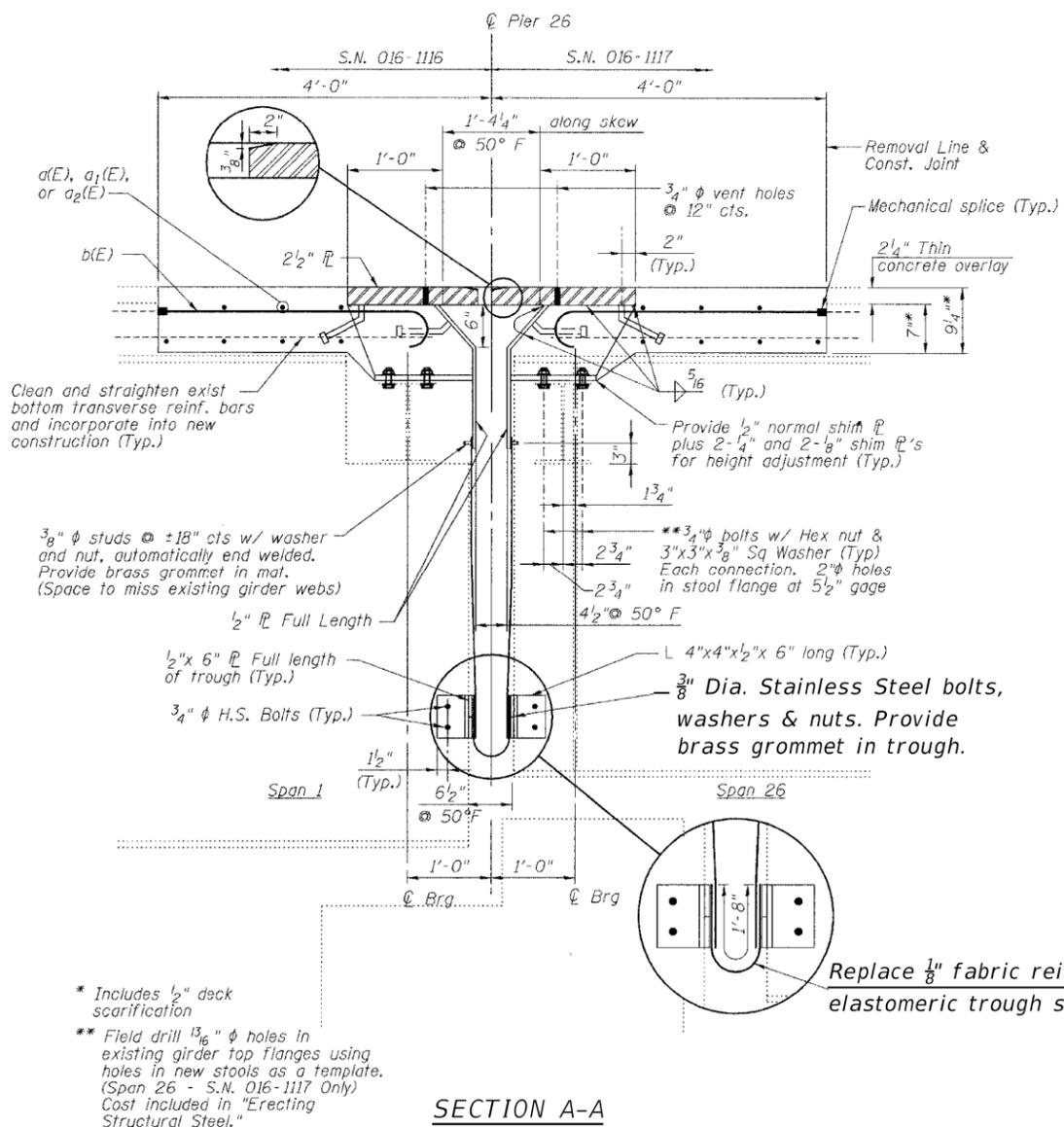
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CONTRACT NO. 62G16				

SHEET S17-5 OF S17-10 SHEETS

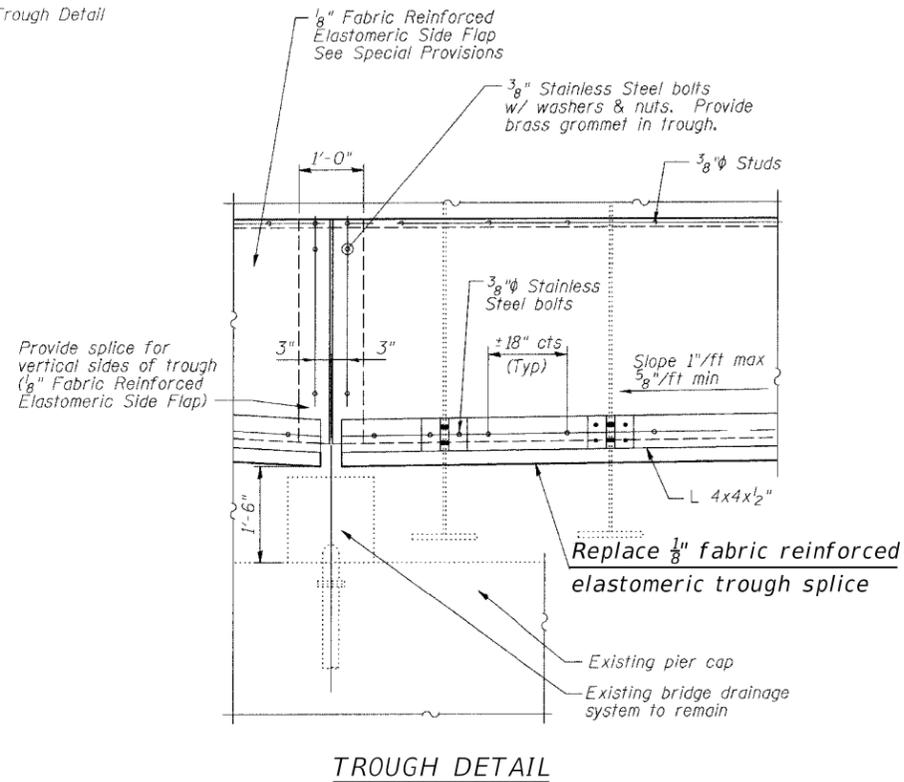
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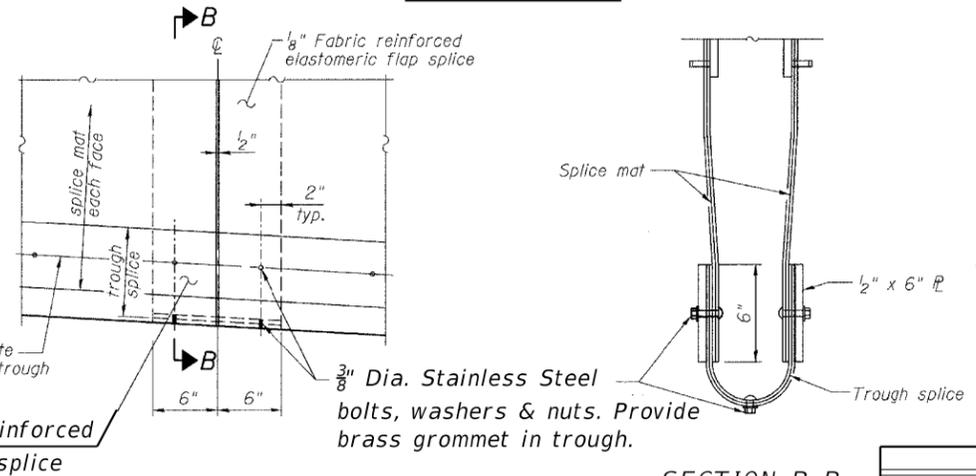
ELEVATION (LOOKING EAST)



SECTION A-A



TROUGH DETAIL



TROUGH SPLICE DETAIL

SECTION B-B

DRAINAGE REPAIR NOTES

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

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	Foot	70

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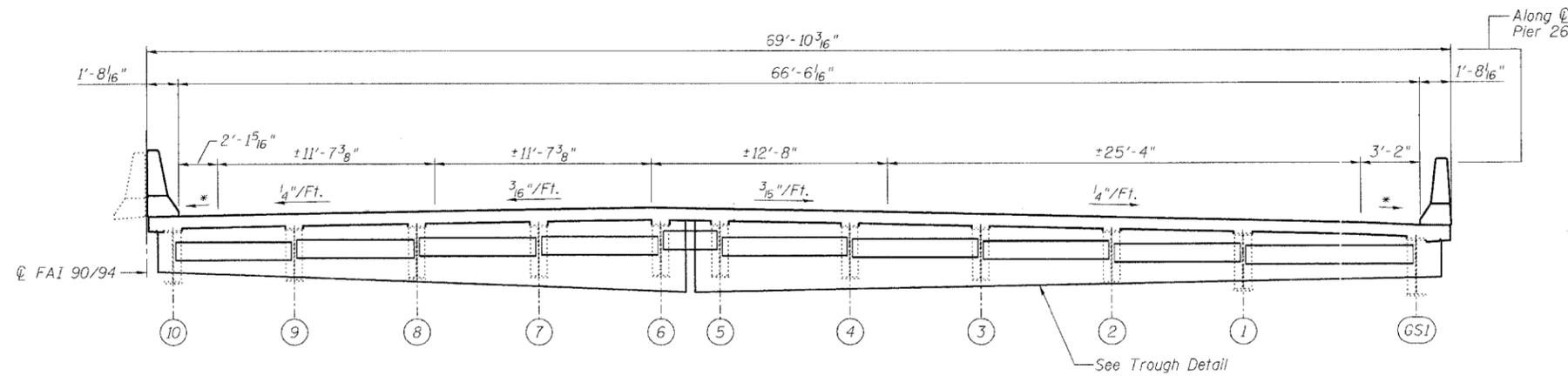
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NB PIER 26 - FINGER JOINT TROUGH REPLACEMENT DETAILS
I-90/94 OVER STEWART ST. TO 29TH ST., S.N.: 016-1117

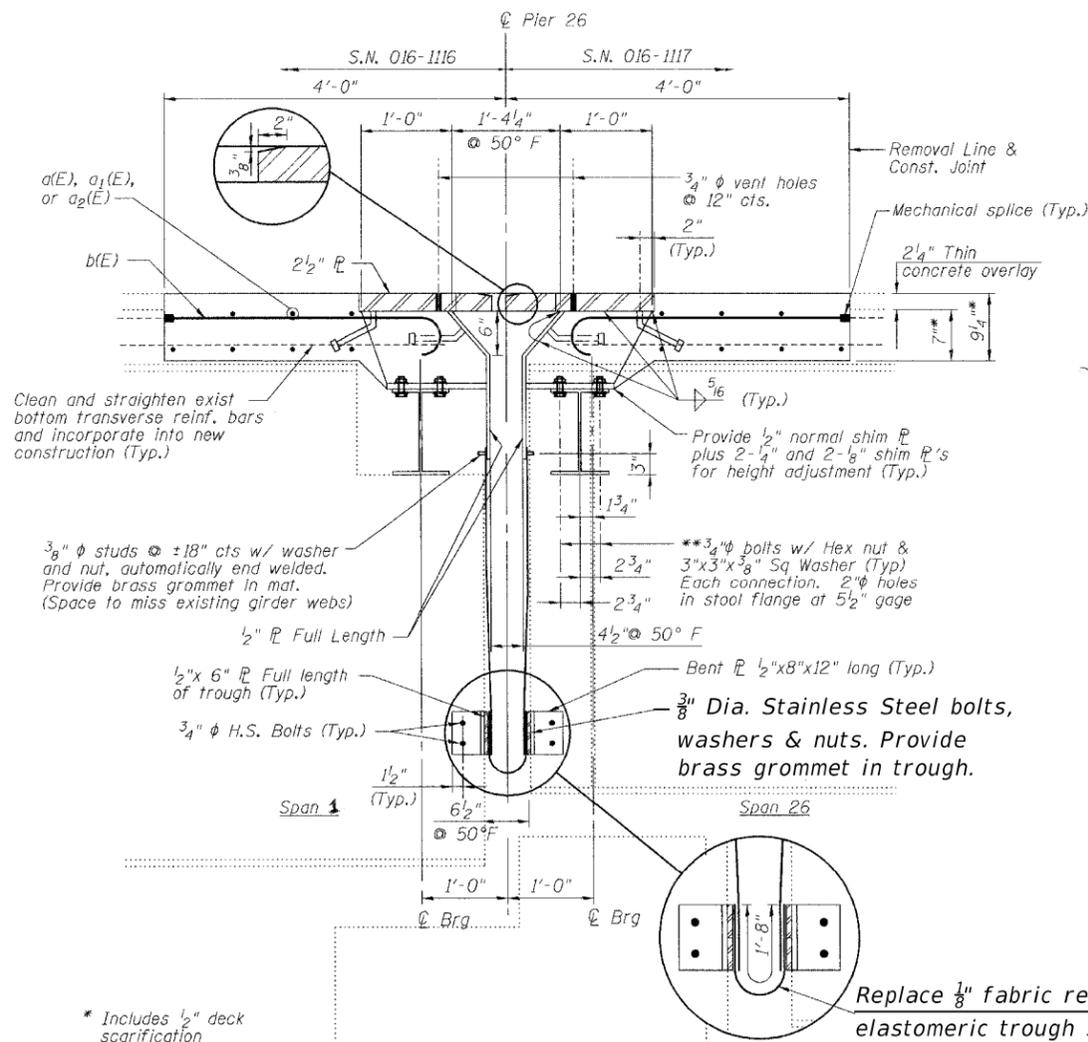
SHEET S17-6 OF S17-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

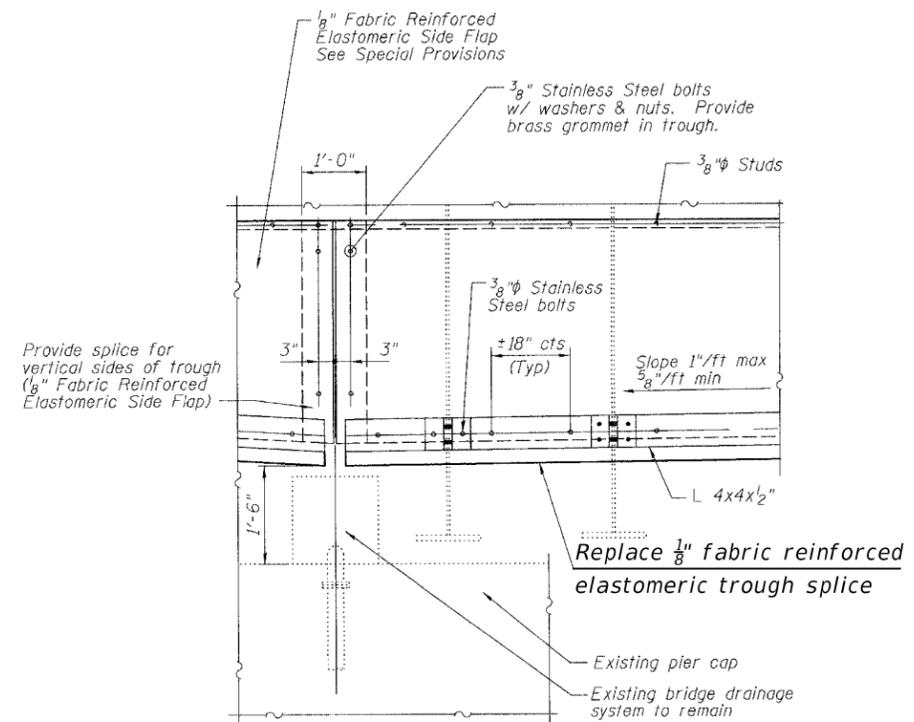


ELEVATION (LOOKING EAST)

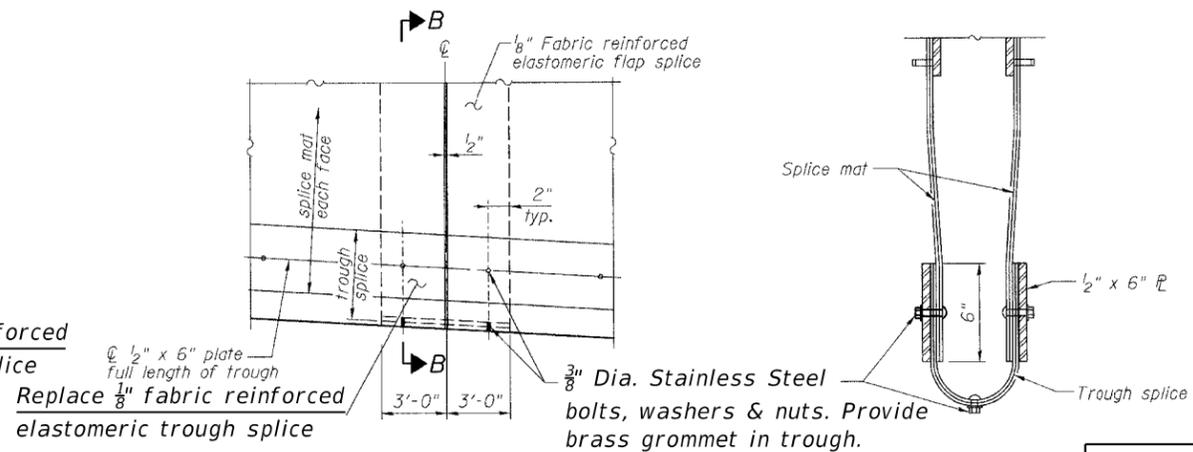
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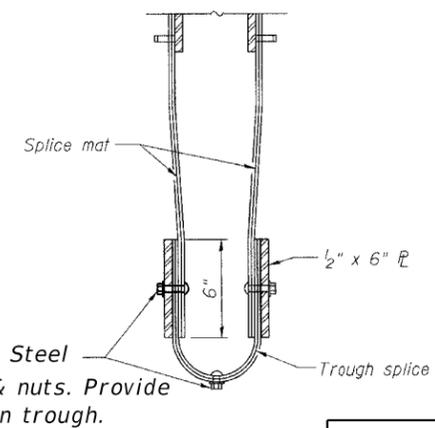
SECTION A-A



TROUGH DETAIL



TROUGH SPLICE DETAIL



SECTION B-B

DRAINAGE REPAIR NOTES

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

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	Foot	70

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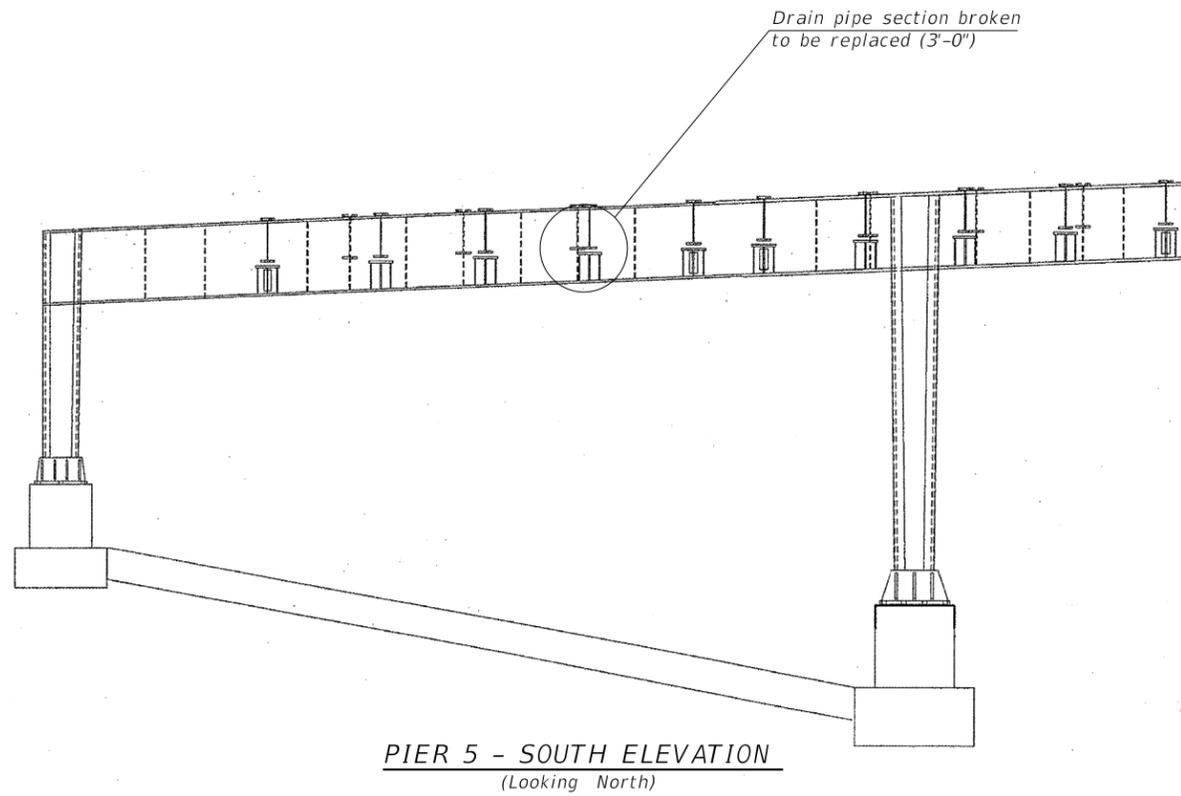
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

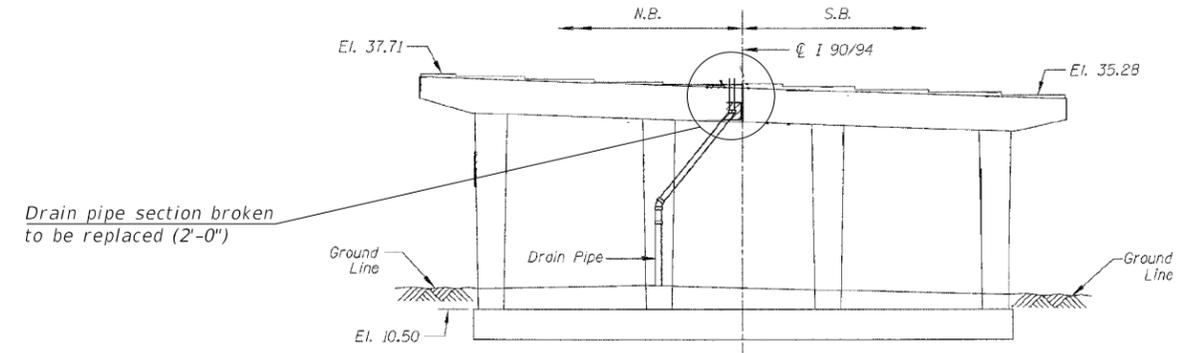
SB PIER 26 - FINGER JOINT TROUGH REPLACEMENT DETAILS
I-90/94 OVER STEWART ST. TO 29TH ST., S.N.: 016-1117

SHEET S17-7 OF S17-10 SHEETS

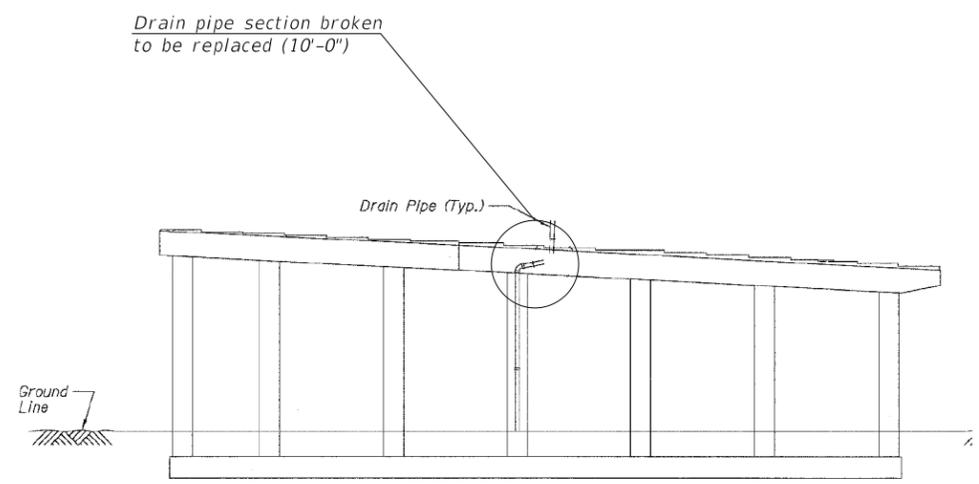
F.A.I. RTE. 94	SECTION 2018-008-BJR	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 116
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



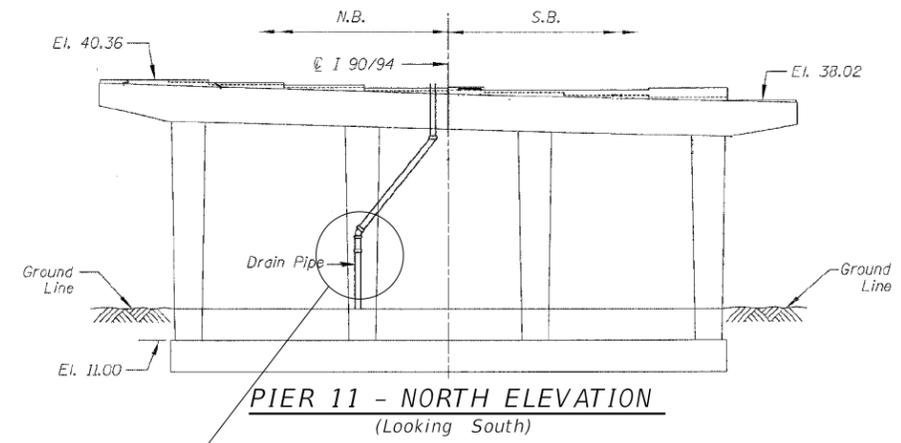
PIER 5 - SOUTH ELEVATION
(Looking North)



PIER 9 - NORTH ELEVATION
(Looking South)



PIER 16 - NORTH ELEVATION
(Looking South)



PIER 11 - NORTH ELEVATION
(Looking South)

Drain pipe section broken to be replaced (1'-0")

DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
2. 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.
3. 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 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 length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see General Plan and Elevation Sheet.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	Foot	16

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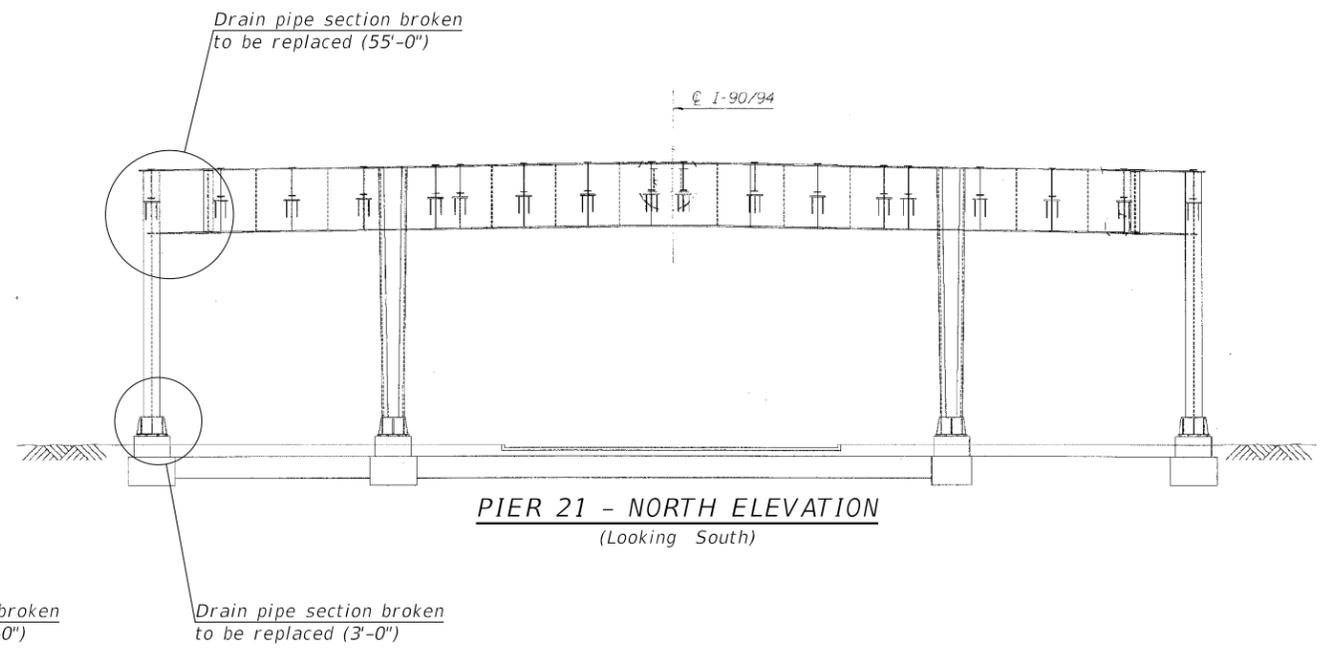
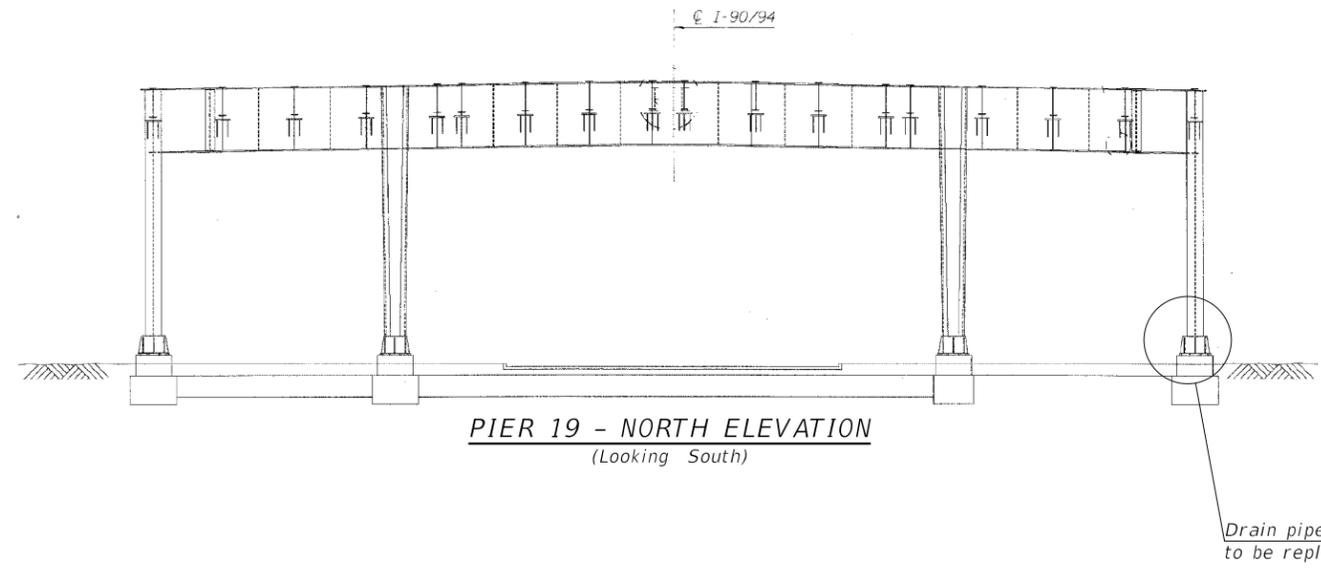
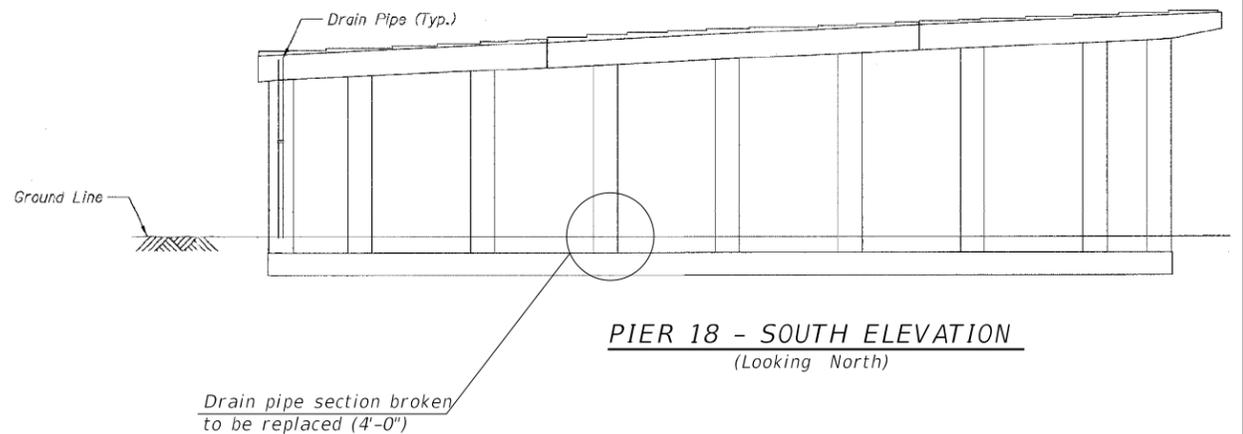
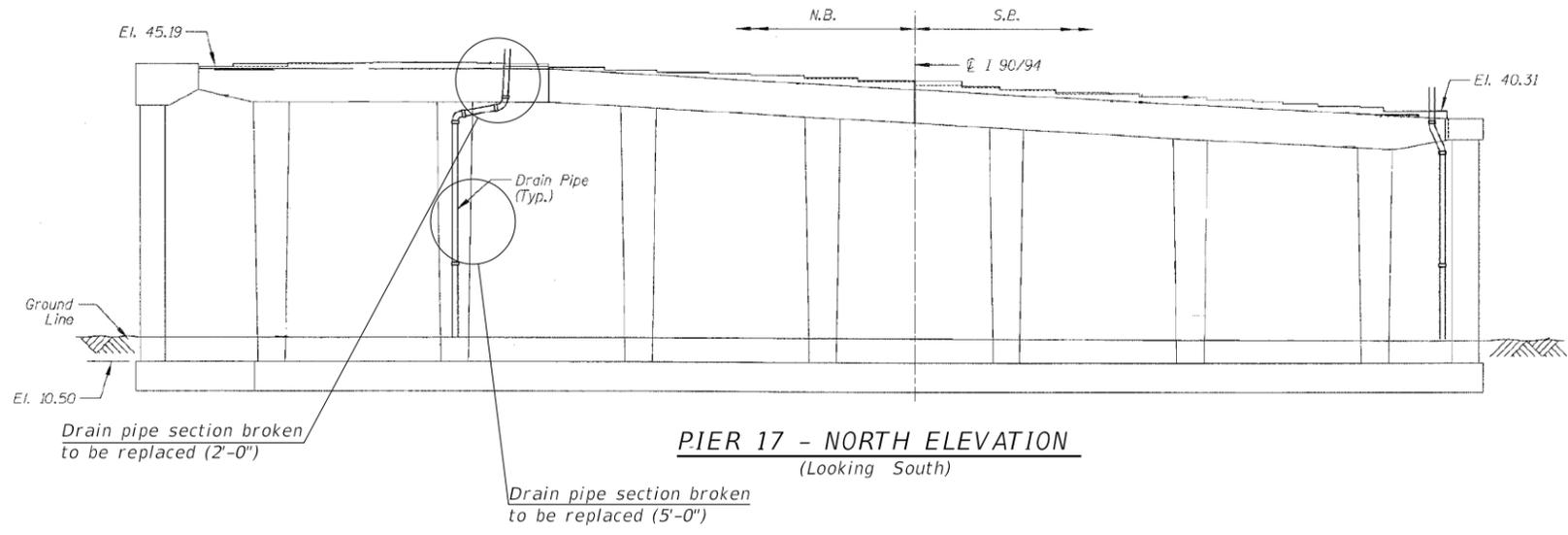
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 5, 9, 11, 16 DOWNSPOUT REPAIRS
I-90/94 OVER STEWART ST. TO 29TH ST., S.N.: 016-1117**

SHEET S17-8 OF S17-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	117
CONTRACT NO. 62G16				

ILLINOIS FED. AID PROJECT



DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractors responsibility to verify the locations 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.
2. 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.
3. 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 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 length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see General Plan and Elevation Sheet.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	Foot	79

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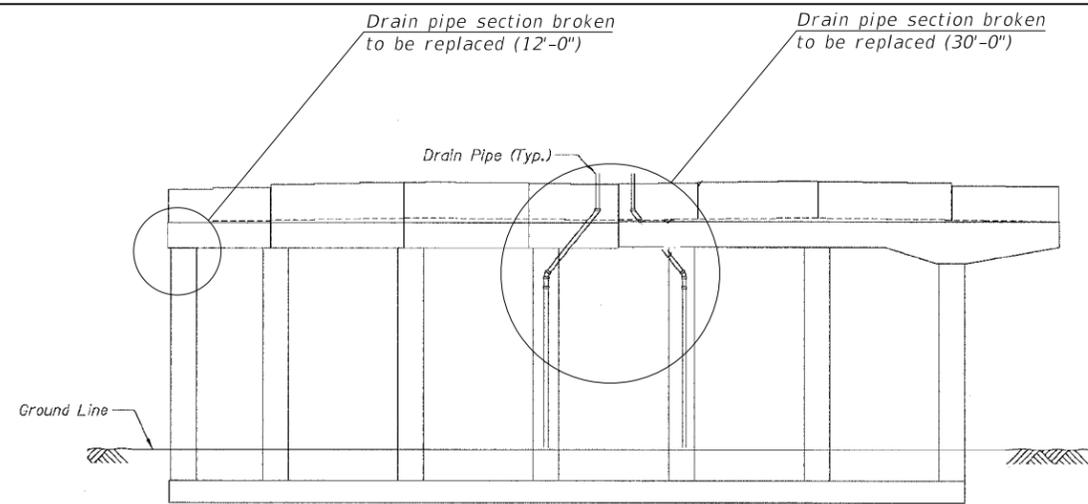
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 17, 18, 19, 21 DOWNSPOUT REPAIRS
I-90/94 OVER STEWART ST. TO 29TH ST., S.N.: 016-1117**

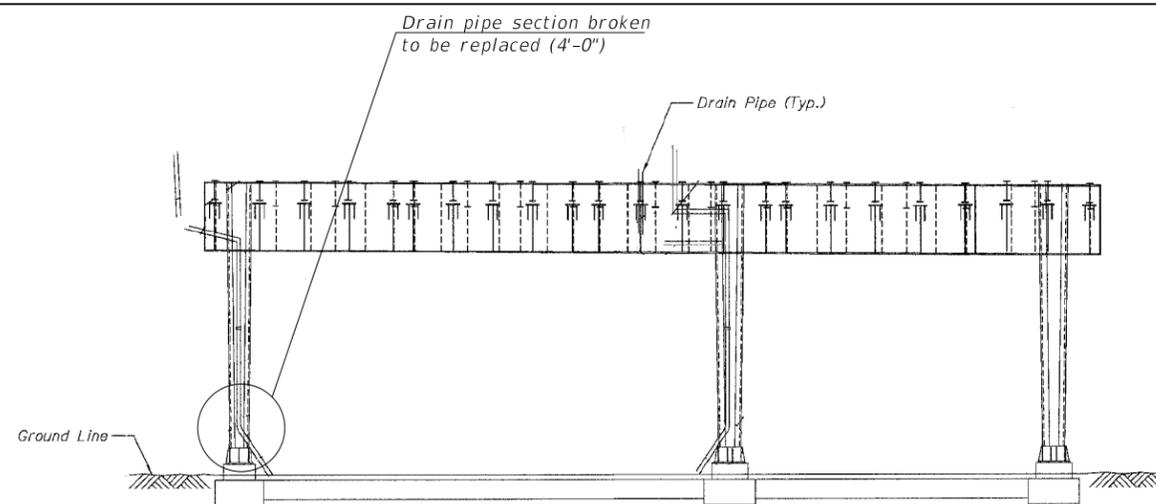
SHEET S17-9 OF S17-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	118
			CONTRACT NO. 62G16	

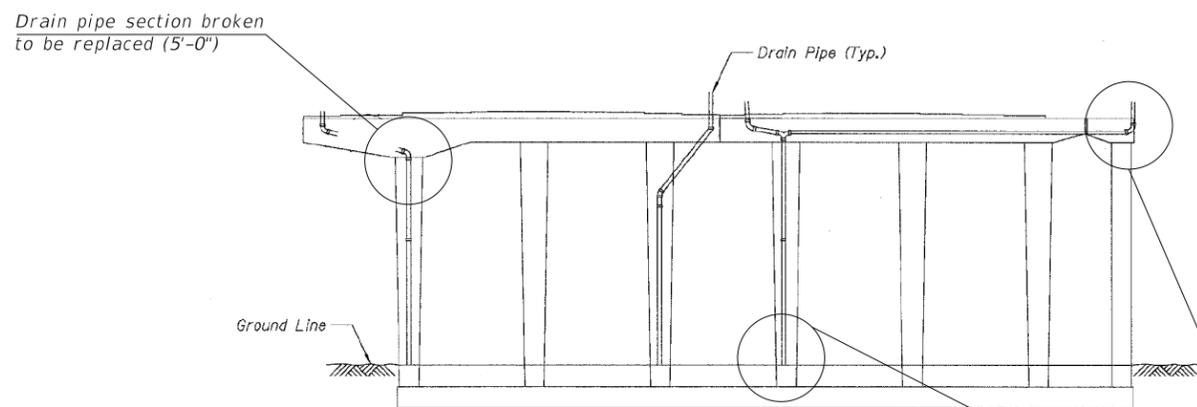
ILLINOIS FED. AID PROJECT



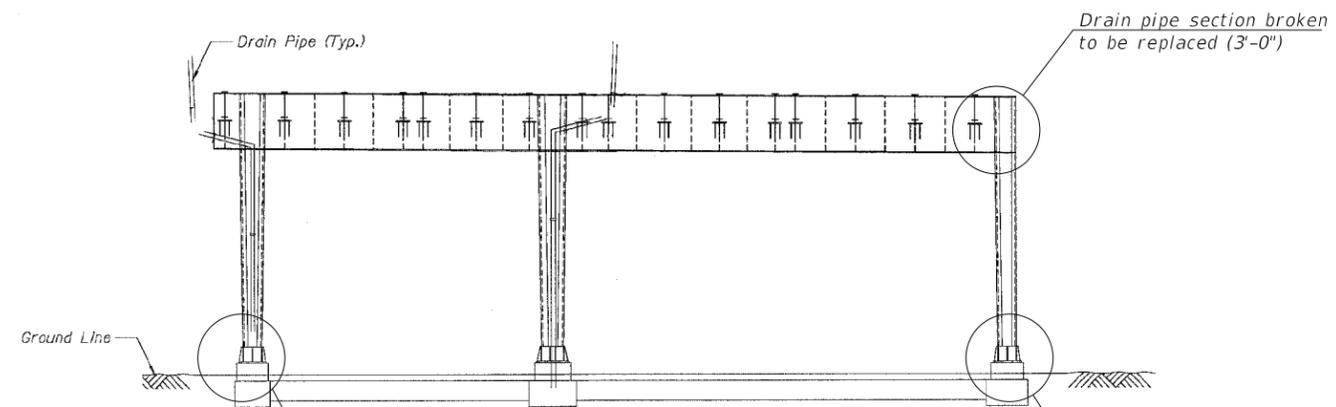
PIER 26 - SOUTH ELEVATION
(Looking North)



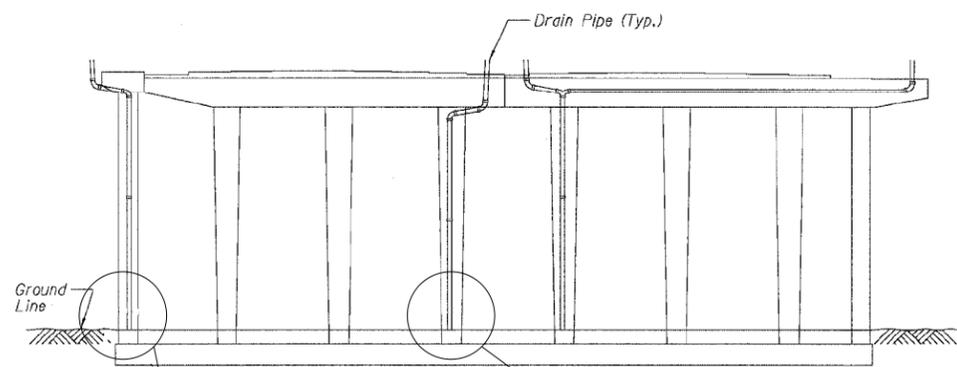
PIER 23 - NORTH ELEVATION
(Looking South)



PIER 25 - NORTH ELEVATION
(Looking South)



PIER 22 - NORTH ELEVATION
(Looking South)



PIER 24 - NORTH ELEVATION
(Looking South)

DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
2. 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.
3. 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 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 length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see General Plan and Elevation Sheet.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	Foot	84

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 22, 23, 24, 25, 26 DOWNSPOUT REPAIRS
I-90/94 OVER STEWART ST. TO 29TH ST., S.N.: 016-1117**

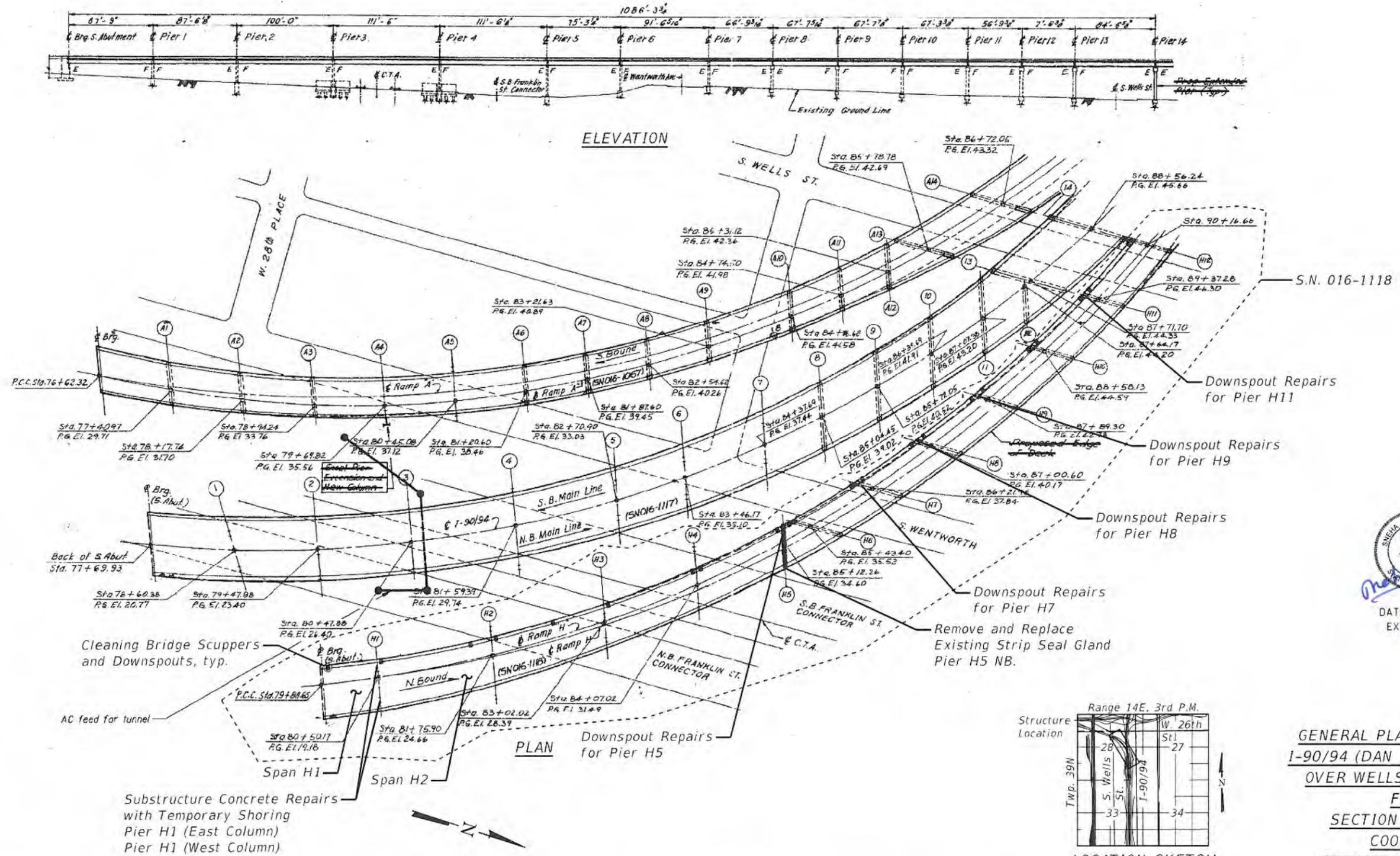
SHEET S17-10 OF S17-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	119
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

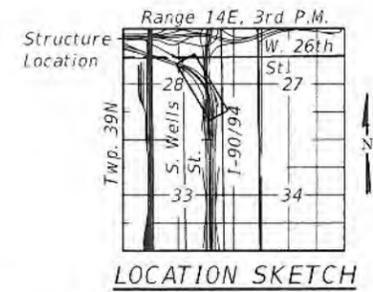
Existing Structure: Existing S.N. 016-1118 Carrying Ramp H (NB I-90/94 Elevated Local Lanes over Wells St. to 29th Place) was originally built in 1962 under Section No. S-2424-4HF and reconstructed in 1989 under Section No. 1985-077R. Existing Structure has 12 total spans. Overall length of the bridge is approximately 1032'-10". Out-to-Out width of the bridge varies from approximately 44'-6" to 56'-1". The bridge is on a curved alignment.

Traffic will be maintained utilizing staged construction during repair work.

No Salvage.



DATE SIGNED: 05/03/2018
EXP. DATE: 11/30/2018



GENERAL PLAN AND ELEVATION
I-90/94 (DAN RYAN EXPRESSWAY)
OVER WELLS ST. TO 29TH PL.
F.A.I. 94
SECTION 2018-008-BJR
COOK COUNTY
STRUCTURE NO. 016-1118

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET S18-1 OF S18-5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	120
				CONTRACT NO. 62G16
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

S.N. 016-1118 SCOPE OF WORK

1. Remove and Replace Strip Seal Gland at Pier H5.
2. Remove and Replace existing Preformed Joint Seal with new Preformed Joint Seal per the Preformed Bridge Joint Seal Special Provision (PBJs) at various locations.
3. Clean all scuppers and downspouts (21 Locations).
4. Remove and Replace broken and/or missing Drain Pipes at various locations.
5. Perform Structural Repair of Concrete at Pier H1.

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF SHEETS

- S18-1. General Plan and Elevation
- S18-2. General Notes, Index of Sheets and Total Bill of Materials
- S18-3. Joint Replacement Details
- S18-4. Pier H5, H7, H8, H9, H11 Downspout Repairs
- S18-5. Substructure Repair Details

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Strip Seal Gland Replacement	Foot	45.5
Cleaning Bridge Scuppers and Downspouts	Each	21
Bridge Drainage System Repair	Foot	19
Structural Repair of Concrete (Depth Equal to or less than 5")	Sq. Ft.	8
Temporary Shoring and Cribbing	Each	1

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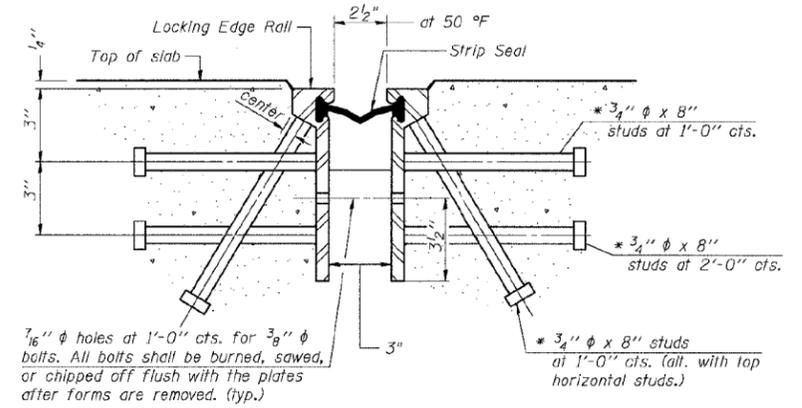
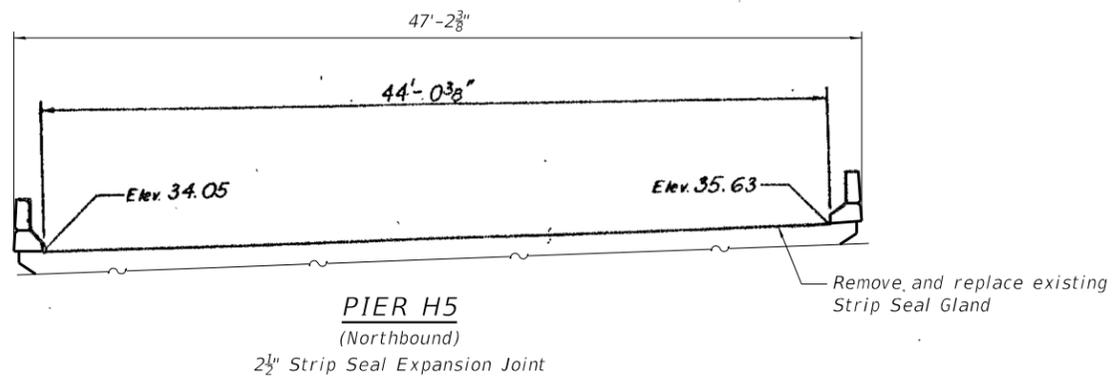
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIALS
I-90/94 OVER WELLS ST. TO 29TH PL., S.N.: 016-1118**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	121
CONTRACT NO. 62G16				
		ILLINOIS	FED. AID PROJECT	

SHEET S18-2 OF S18-5 SHEETS



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Strip Seal Gland Replacement	Foot	45.5

Note: The length of the Strip Seal Gland Replacement is measured from Face to Face of Papaet plus 1'-0".

MODEL: Default
FILE NAME: C:\Engineering\LiveProjects\13040_IDOT DUR HB\Work Order 2\CADD\CADD Sheets\Structural\016-1118-03_Joint Replacement Details.dgn



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PLOT DATE =	CHECKED - SPS	REVISED -

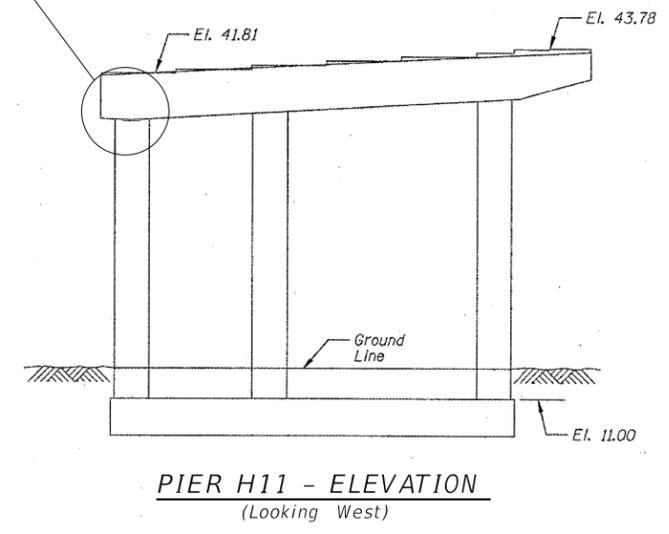
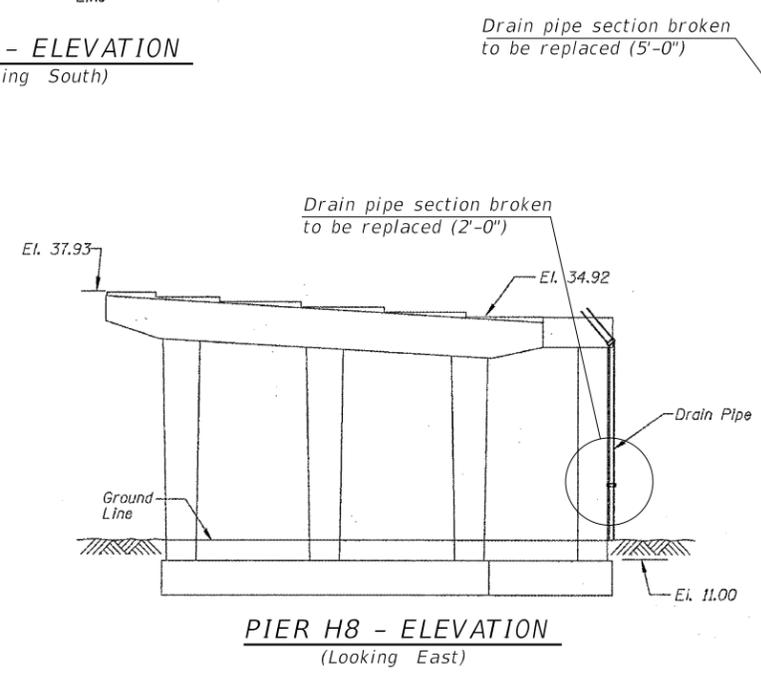
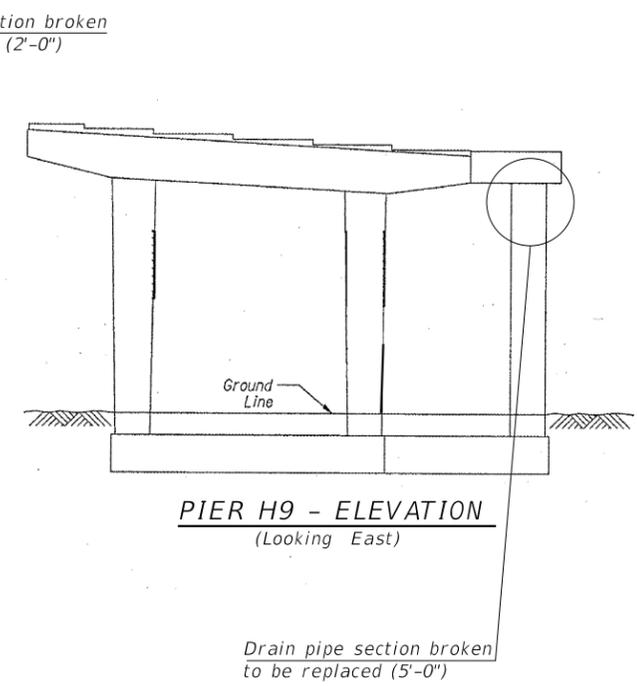
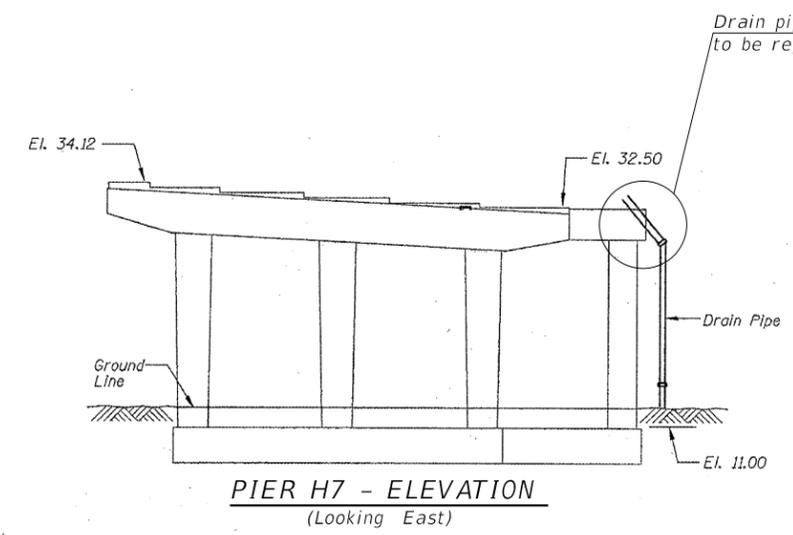
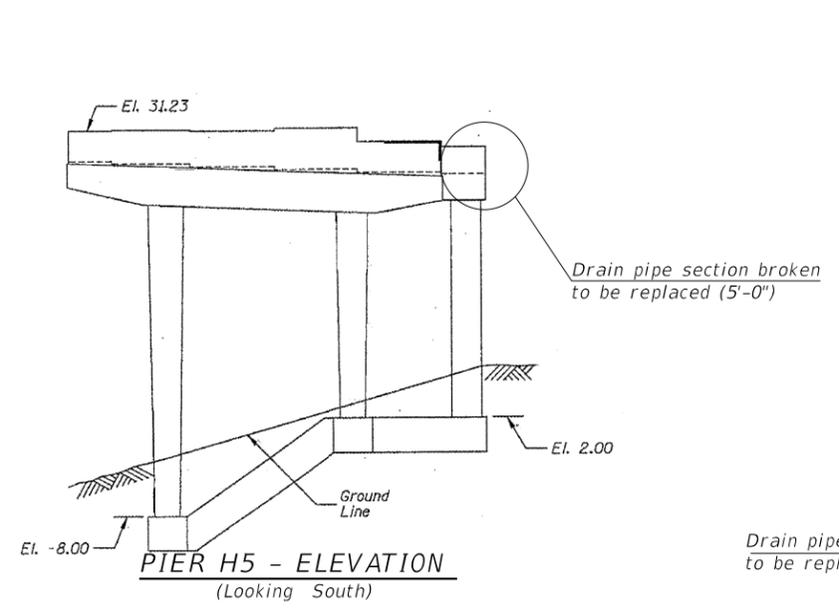
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REPLACEMENT DETAILS
I-90/94 OVER WELLS ST. TO 29TH PL., S.N.: 016-1118**

SHEET S18-3 OF S18-5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	122
CONTRACT NO. 62G16				
		ILLINOIS	FED. AID PROJECT	

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DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
2. 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.
3. 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 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 length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see General Plan and Elevation Sheet.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Bridge Drainage System Repairs	Foot	19



USER NAME =	DESIGNED - SAT	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SYSTEM REPAIR DETAILS
 I-90/94 OVER WELLS ST. TO 29TH PL., S.N.: 016-1118**

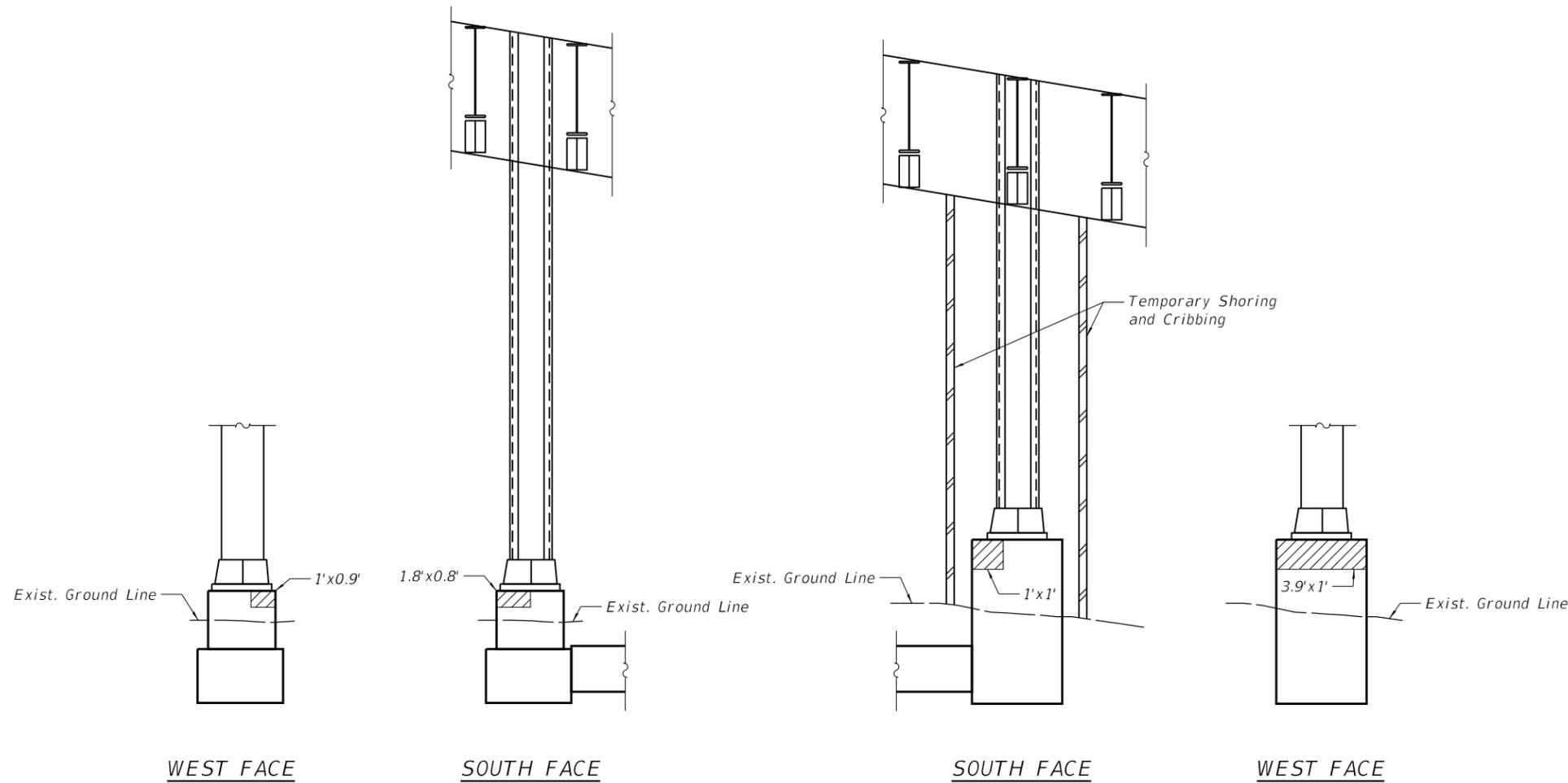
SHEET S18-4 OF S18-5 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	123
CONTRACT NO. 62G16				

ILLINOIS FED. AID PROJECT

NOTES:

1. Prior to removal of concrete, the existing pier cap and beam shall be temporarily supported (See Pier Reaction Table and See Special Provision for Temporary Shoring and Cribbing).



PIER H1 - WEST COLUMN

PIER H1 - EAST COLUMN

LEGEND

Structural Repair of Concrete (Depth Equal to or Less than 5")

UNFACTORED PIER REACTIONS

Pier H1	Load
Span H1	
DL	30.2 kips
LL	39.6 kips
IM	10.7 kips
Total	80.5 kips
Span H2	
DL	70.5 kips
LL	41.5 kips
IM	8.3 kips
Total	129.3 kips

- Notes:
1. Reactions shown in the table are per girder.
 2. Weight of the pier cap is approximately 0.6 kips/ft. and not included in the table.

BILL OF MATERIAL

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less than 5")	Sq. Ft.	8
Temporary Shoring and Cribbing	Each	1

MODEL: Default
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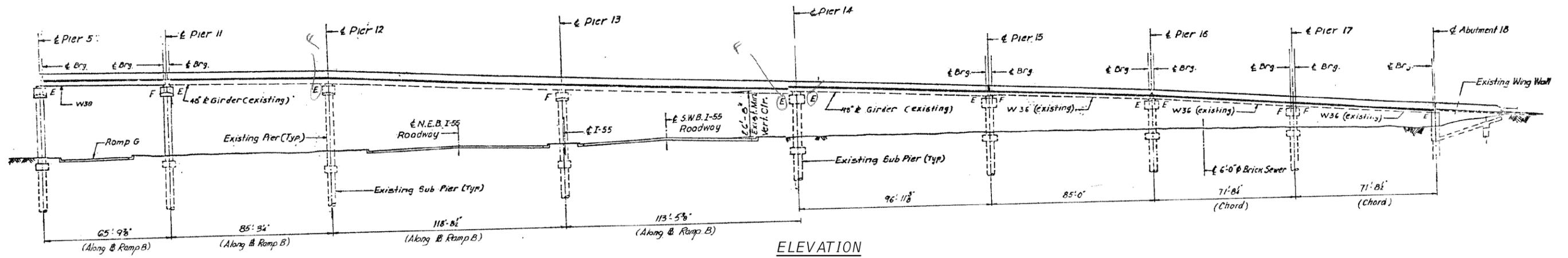
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

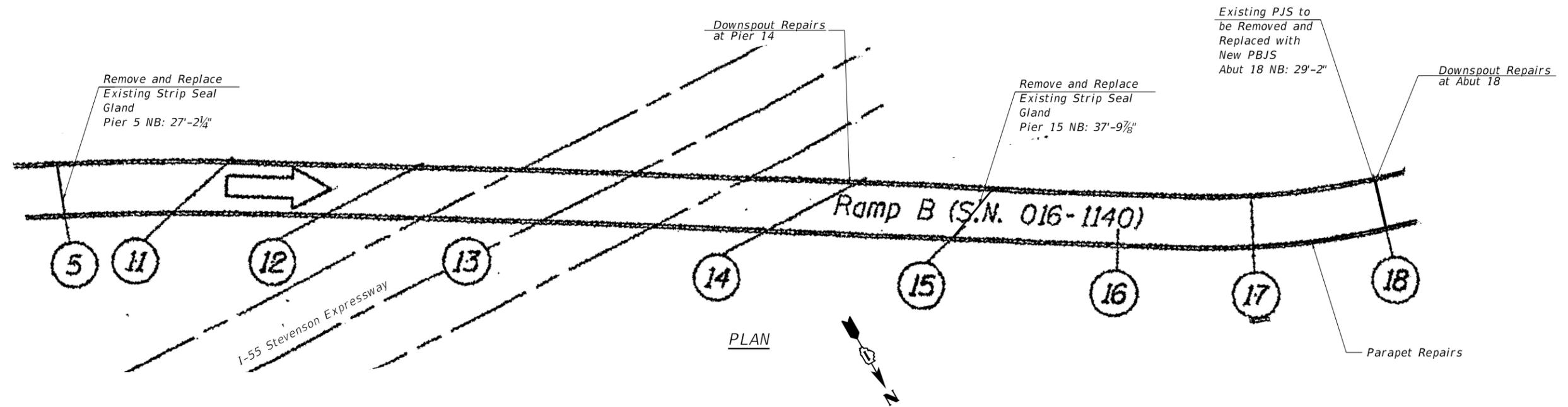
**SUBSTRUCTURE REPAIR DETAILS
I-90/94 OVER WELLS ST. TO 29TH PL., S.N.: 016-1118**

SHEET S18-5 OF S18-5 SHEETS

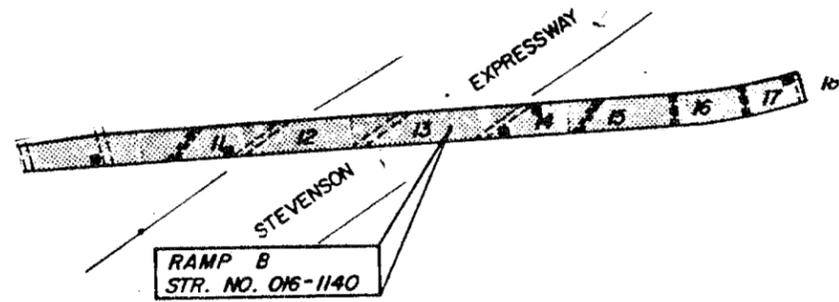
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94	2018-008-BJR	COOK	133	124
CONTRACT NO. 62G16				
ILLINOIS		FED. AID PROJECT		



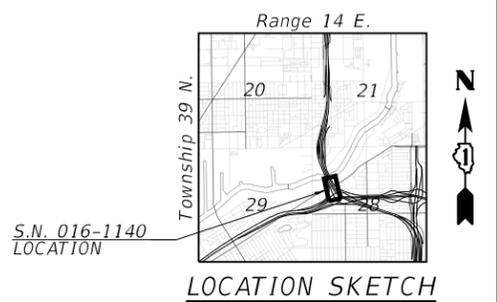
ELEVATION



PLAN



DECK DRAINAGE



LOCATION SKETCH

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0161140-001-GPE.dgn
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 PLOT SCALE =
 PLOT DATE = 5/2/2018

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DRAWN - AI	REVISED -
CHECKED - RTB	REVISED -
DATE - 03/19/2018	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF
 TRANSPORTATION

GENERAL PLAN AND ELEVATION
 I-90/94 NB TO I-55 WB RAMP OVER I-55 SN 016-1140

F.A.P. RTE. 94	SECTION 2018-008-BJR	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 125
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET S19-1 OF S19-7 SHEETS STA. TO STA.

GENERAL NOTES:

CONSTRUCTION

1. 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 at the unit price bid for the work.
2. As built plan information is provided For Information Only. Key dimensions have been clarified. Inclusion of these sheets does not relieve the contractor of any responsibility for verifying such dimensions as indicated in the note. These plans are available from the Department as specified in the Special Provisions for existing plans.
3. Contractor shall not scale dimensions from the contract plans for construction purposes. Scales shown are for information only.
4. Repairs shown are based upon inspection date provided by IDOT D1 Maintenance at the time of plan preparation and are for bidding purposes only. Actual area to be repaired shall be determined by the Engineer in the field at the time of construction.

SN 016-1140 SCOPE OF WORK

1. Remove and replace Strip Seal Glands at NB Pier 5 and NB Pier 15.
2. Remove and replace 4" existing PJS with new Preformed Joint Seal per the Preformed Bridge Joint Seal Special Provision (PBJs) at NB Abutment 18.
3. Remove and replace broken and/or missing Drain pipes at Abutment 18 West Side and P14 West Side.
4. Remove and reconstruct damaged portions of parapet between Pier 17 and 18.
5. Clean 4 NB Bridge Scuppers.

DESIGN SPECIFICATIONS

2002 AASHTO

ABBREVIATIONS

Abut.	Abutment	N.B.	North Bound
SN	Structure Number	P.G.L.	Profile Grade Line
Brg.	Bearing	Prop.	Proposed
Exist.	Existing	Rt.	Right
E	Expansion	S. Abut.	South Abutment
F	Fixed	S.B.	South Bound
Jt.	Joint	Sta.	Station
N. Abut.	North Abutment	Typ.	Typical

INDEX OF DRAWINGS

- S19-1 General Plan And Elevation
- S19-2 General Notes, Index of Sheets and Total Bill Of Material
- S19-3 Joint Repair Elevation
- S19-4 Joint Repair Details
- S19-5 Bridge Parapet Repairs 1
- S19-6 Bridge Parapet Repairs 2

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	CU YD	1.2
Concrete Superstructure	CU YD	1.2
Protective Coat	SQ YD	21
Reinforced bars, Epoxy Coated	POUND	50
Cleaning Bridge scuppers and downspouts	EACH	4
Bridge Drainage System Repair	FOOT	17
Preformed Joint Seal, 2"	FOOT	30
Strip Seal Gland Replacement	FOOT	65

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PLOT DATE = 5/2/2018

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DRAWN - EBK
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DATE - 03/19/2018

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STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

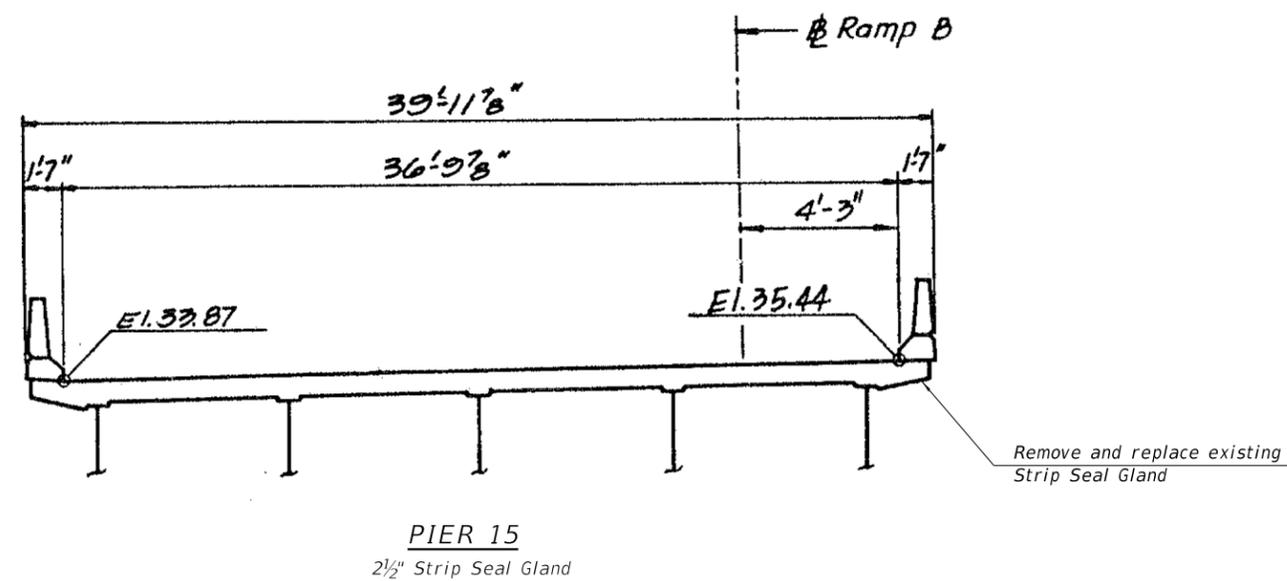
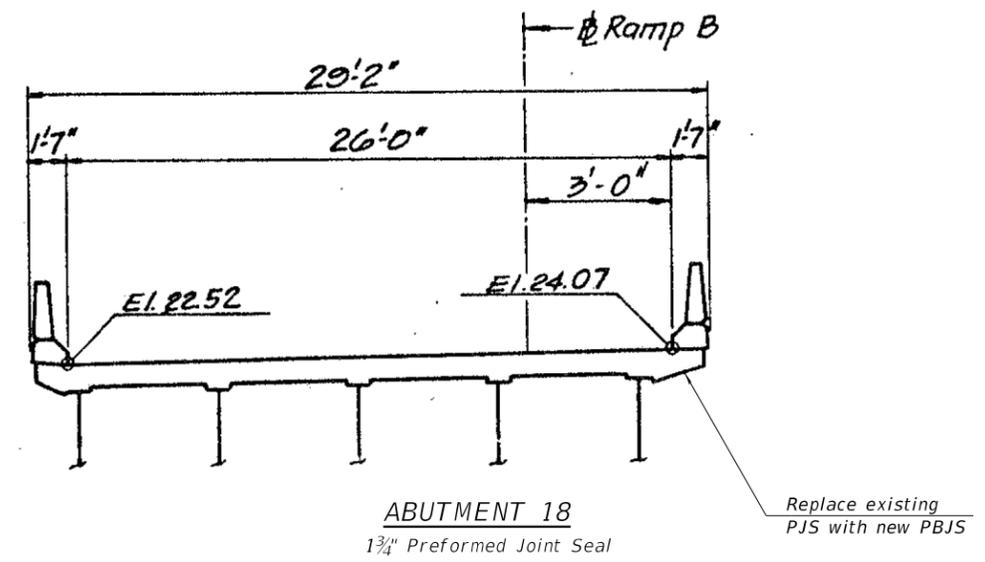
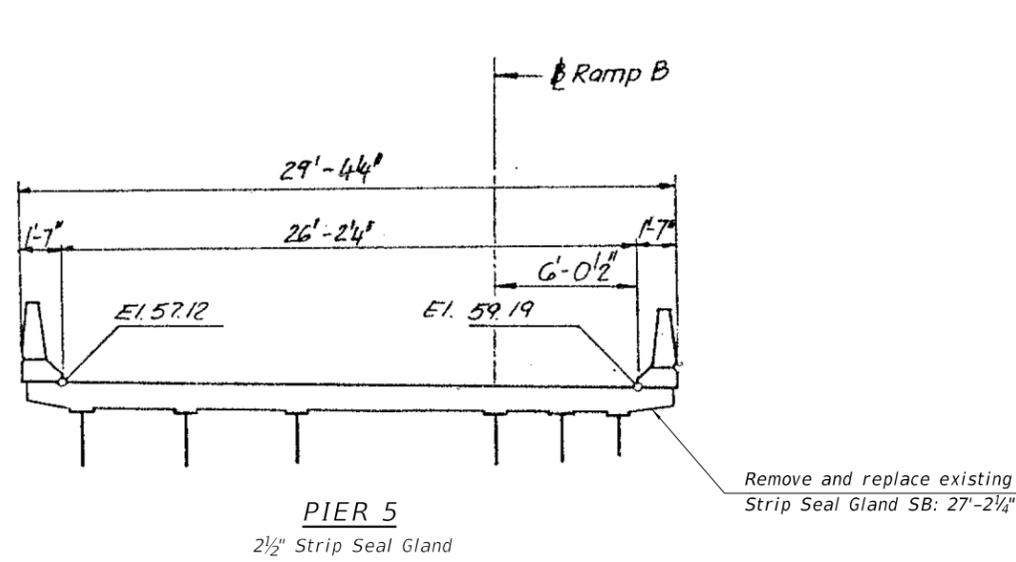
GENERAL NOTES, INDEX OF SHEETS AND BILL OF MATERIAL
I-90/94 NB TO I-55 WB RAMP OVER I-55 SN 016-1140

SCALE: SHEETS19-2 0519-7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	126
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Preformed Joint Seal, 2"	FOOT	30
Strip Seal Gland Replacement	FOOT	65



FILE PATH = P:\1710-746 IDOT District 1\NO 2 Den Rgn BrIDGE Repairs\Sheet Files\SN 016-1140\0161140-003-Joint Replacement Sections.dgn



0161140-003-Joint Replacement Sections.dgn
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 PLOT DATE = 5/2/2018

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 DATE - 03/19/2018

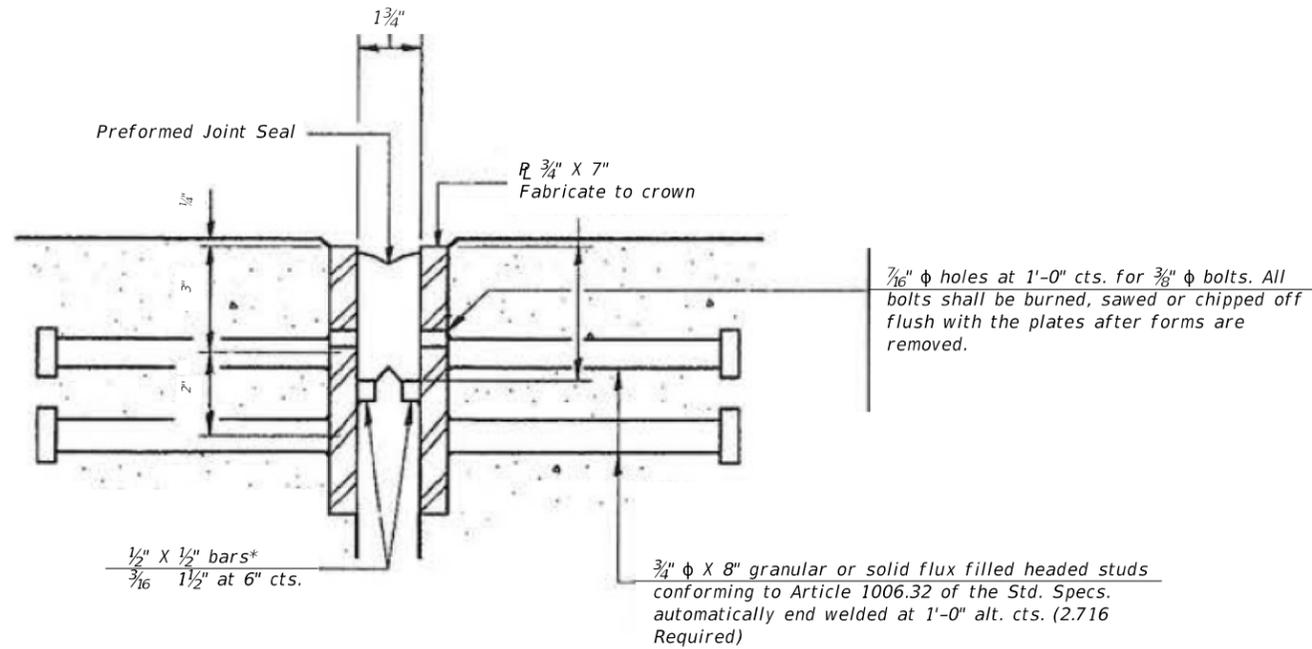
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STATE OF ILLINOIS
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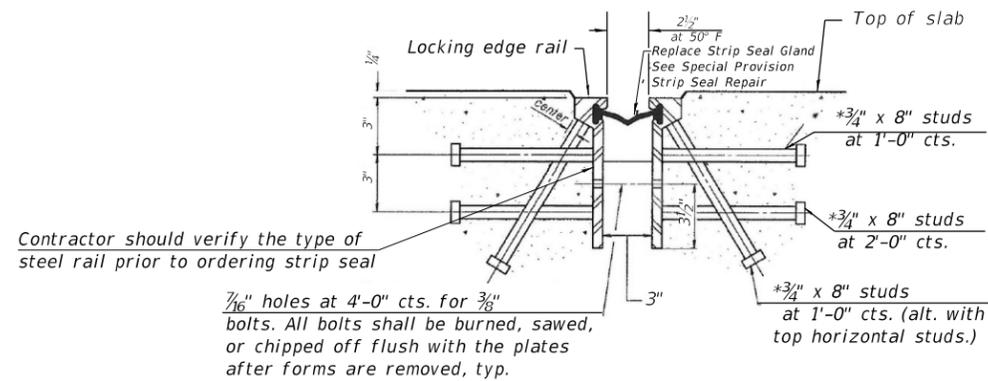
JOINT REPAIR ELEVATION
 I-90/94 NB TO I-55 WB RAMP OVER I-55 SN 016-1140

SCALE: SHEET S19-3 OF S19-7 SHEETS STA. TO STA.

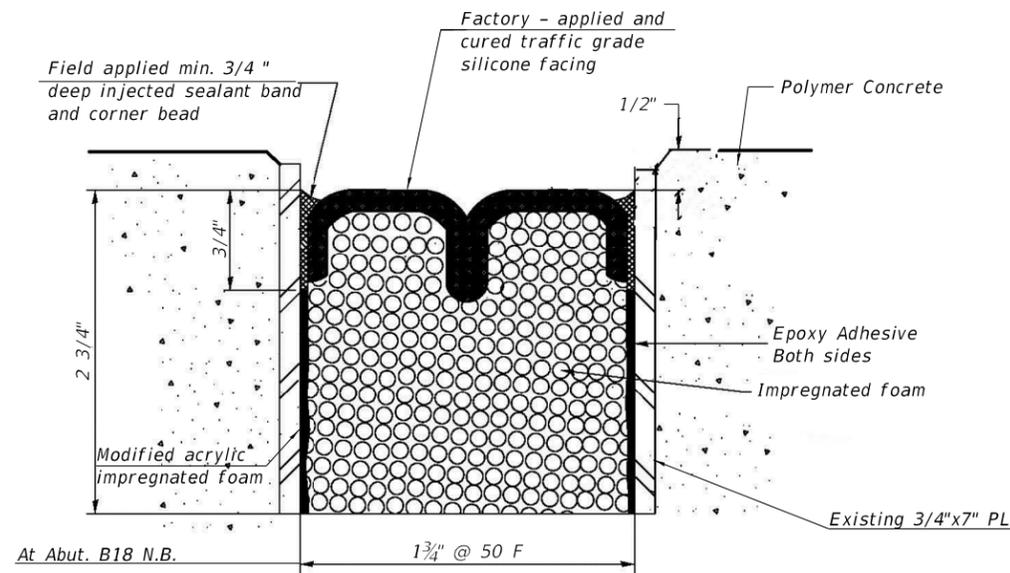
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94	2018-008-BJR	COOK	133	127
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



**SECTION THRU EXISTING 4" PREFORMED JOINT SEAL
AT ABUT. NO. 18**



**PROPOSED NEW PREFORMED JOINT SEAL
AT PIER NO. 5 & 15**



**PROPOSED NEW PBJs JOINT SEAL
AT ABUT. NO. 18**

Note: The new joint shall be a "Preformed, Pre-compressed, Silicone Coated, Self-Expanding Sealant System" and paid for as Preformed Joint Seal. See special provision "Preformed Bridge Joint Seal" (PBJs).

NOTES:

1. For notes and Bill Of Material, see sheet S19-3 .

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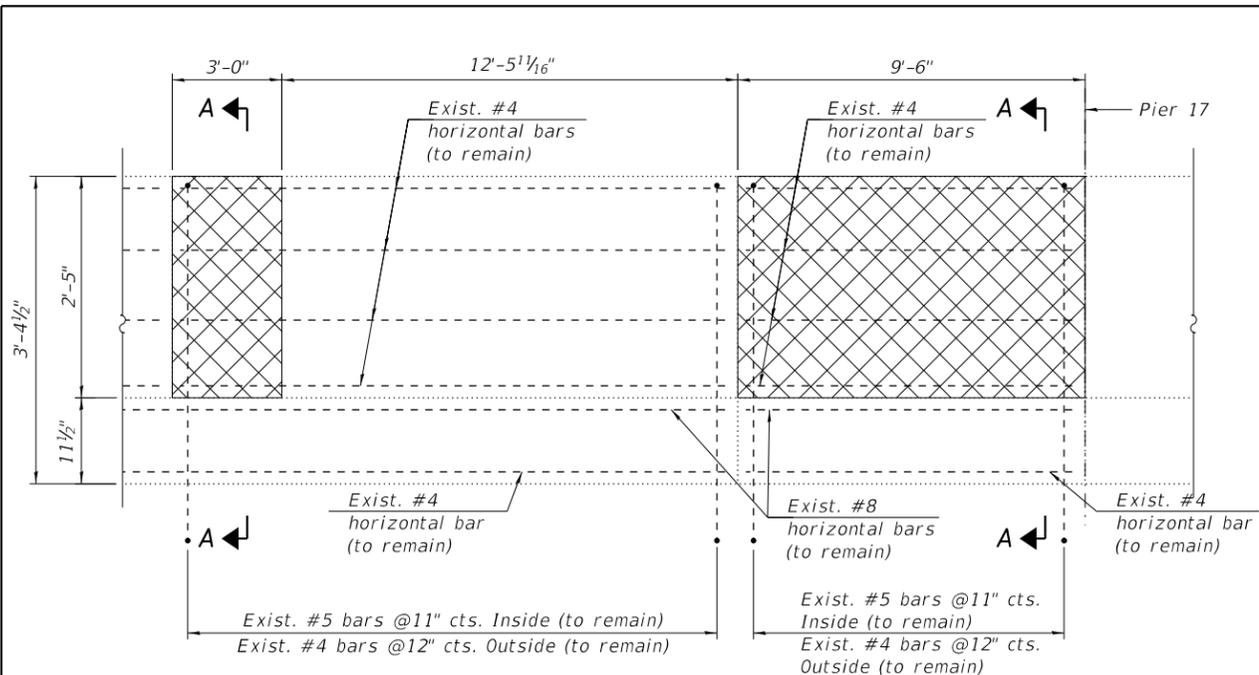


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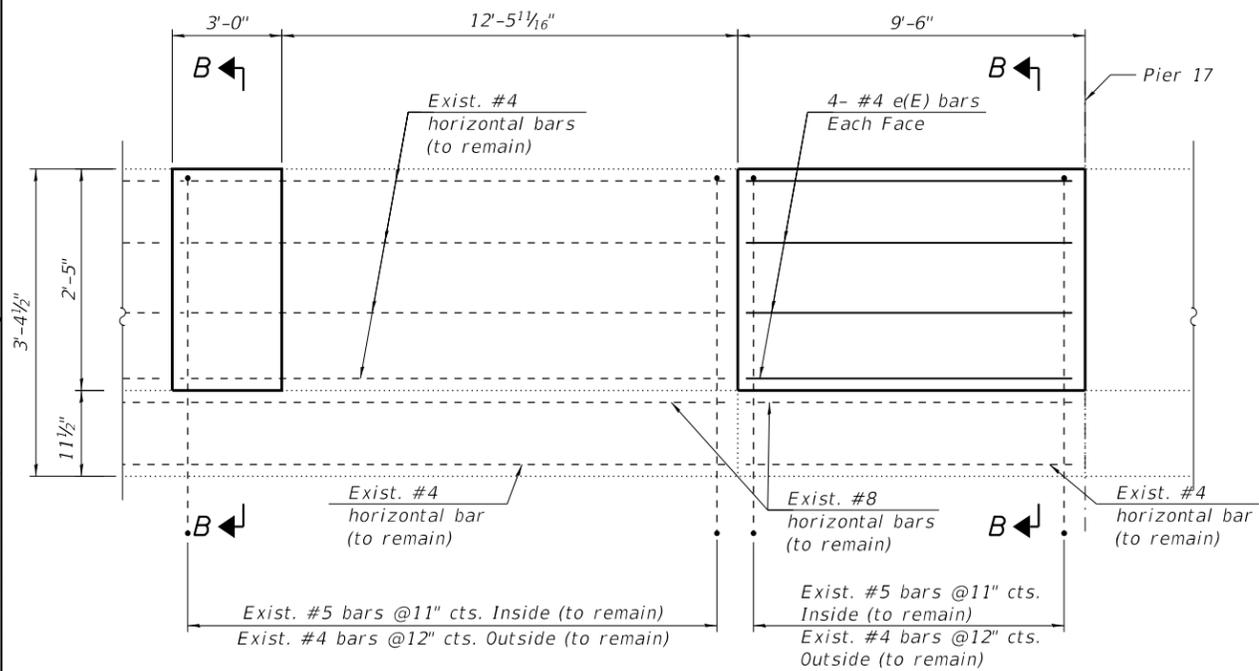
STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

JOINT REPAIR DETAILS	
I-90/94 NB TO I-55 WB RAMP OVER I-55 SN 016-1140	
SCALE:	SHEET S19-4 OF S19-7 SHEETS STA. TO STA.

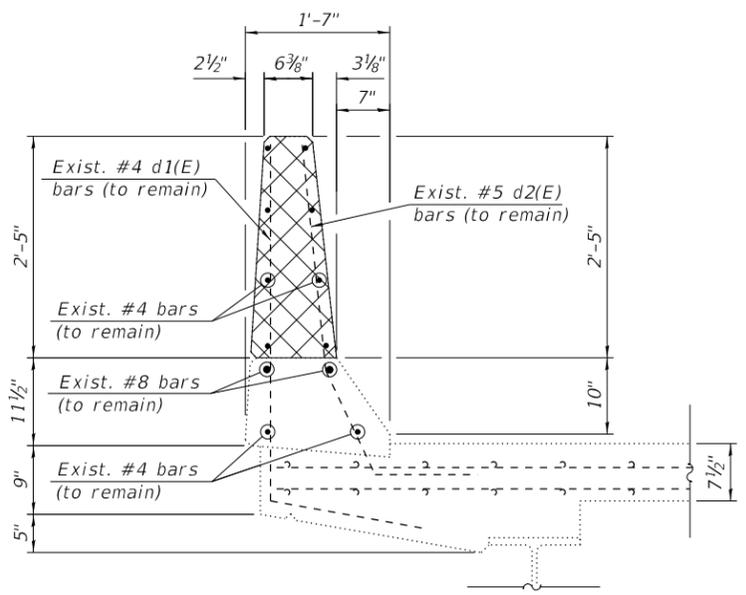
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CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				



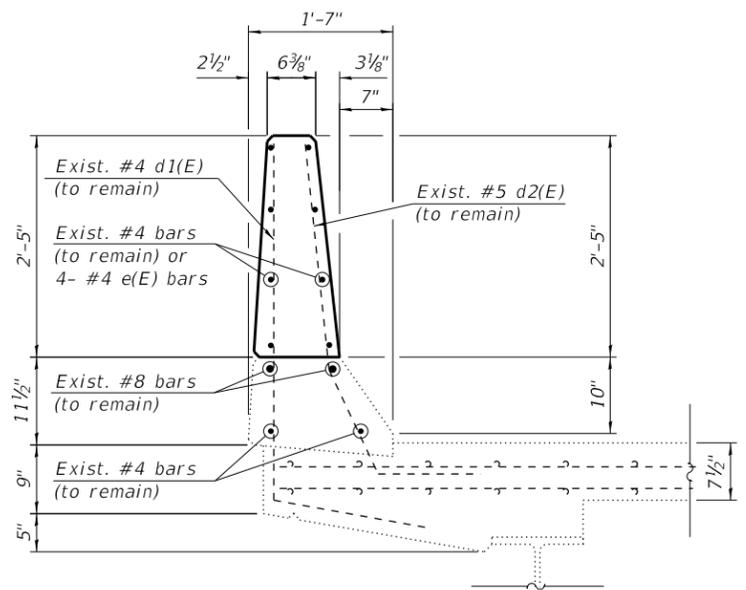
DETAIL 1 REMOVAL ELEVATION



DETAIL 1 CONSTRUCTION ELEVATION



SECTION A-A

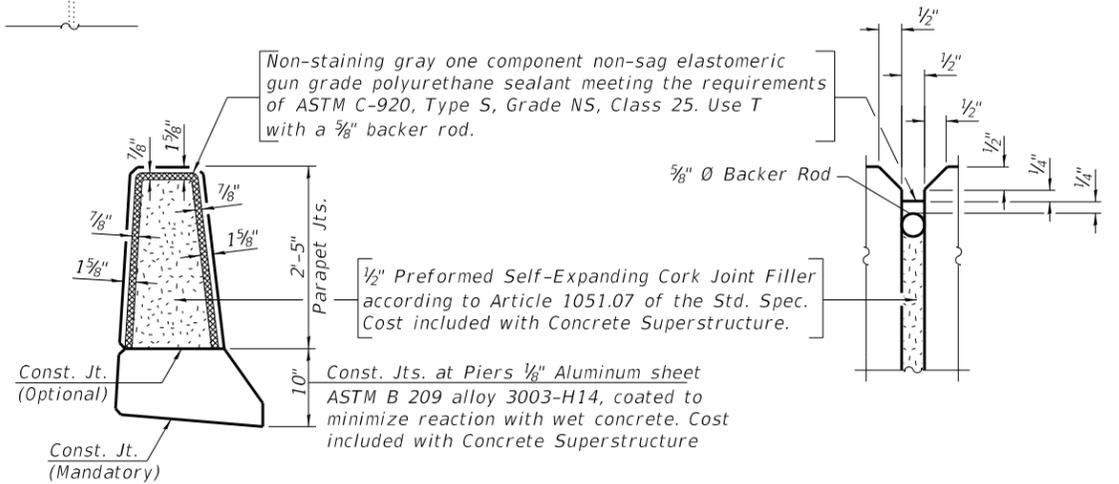


SECTION B-B

NOTES:

1. Concrete Removal shall extend a minimum of 6" past damage or to joint if within 2'-0".
2. Existing bars to be cleaned, straightened and incorporated in new construction.
3. If existing vertical rebar is missing, bars d1(E) and d2(E) shall be straightened and epoxy grouted into existing concrete 9" deep. Cost shall be included in "Concrete Removal".
4. Bars to be epoxy grouted according to Art. 584 of the Standard Specifications.
5. Perimeters of Concrete Removal areas shall be saw cut 3/4" prior to removal of concrete.
6. For Bill Of Material, see sheet S19-6 .

LEGEND



PARAPET JOINT DETAILS

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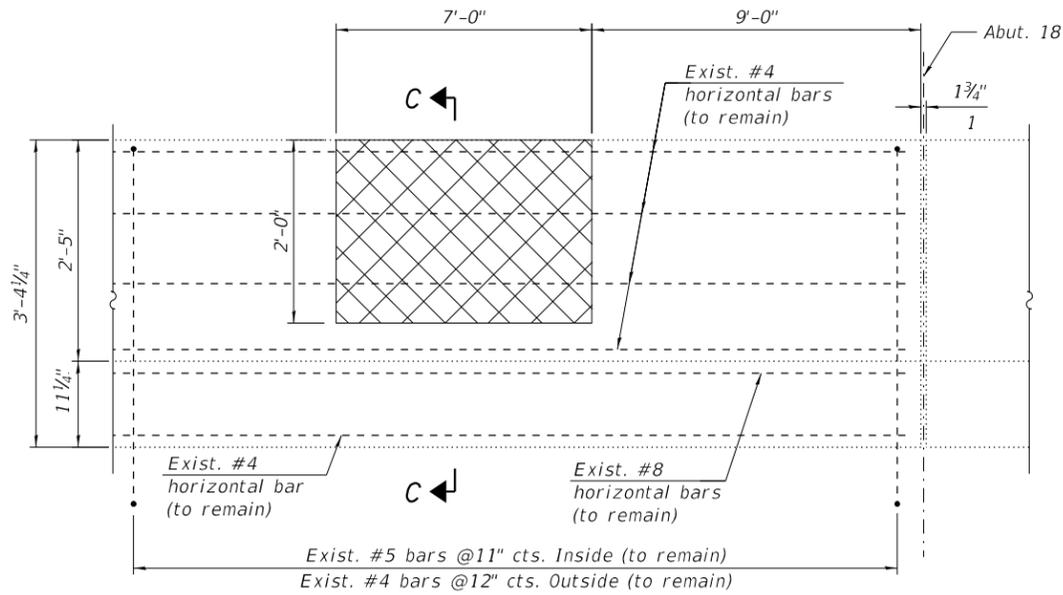
BRIDGE PARAPET REPAIRS 1
I-90/94 NB TO I-55 WB RAMP OVER I-55 SN 016-1140

F.A.P. RTE. 94	SECTION 2018-008-BJR	COUNTY COOK	TOTAL SHEETS 133	SHEET NO. 129
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

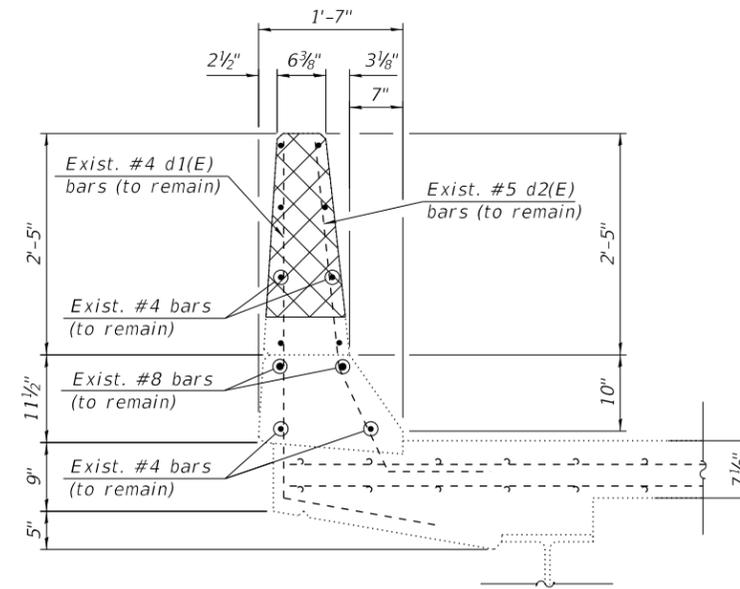
SCALE: SHEET S19-5 OF S19-7 SHEETS STA. TO STA.

BILL OF MATERIAL

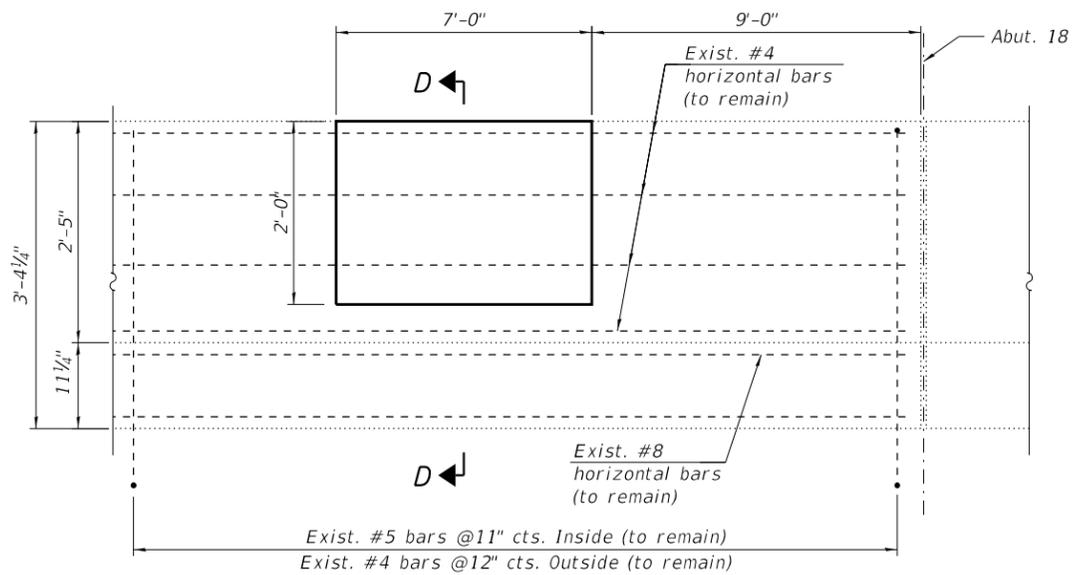
Bar	No.	Size	Length	Shape
e(E)	8	#4	9'-2"	—
Concrete Removal			Cu. Yd.	1.2
Concrete Superstructure			Cu. Yd.	1.2
Protective Coat			Sq. Yd.	21
Reinforcement Bars, Epoxy Coated			Pound	50



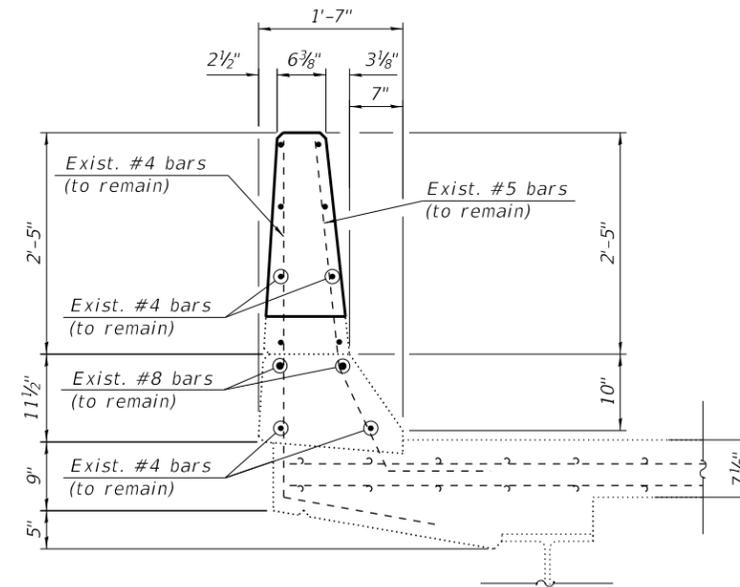
DETAIL 2 REMOVAL ELEVATION



SECTION C-C



DETAIL 2 CONSTRUCTION ELEVATION

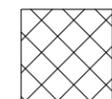


SECTION D-D

NOTES:

1. For Notes, see sheet S19-5 .

LEGEND



Concrete Removal

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0161140-006-ParapetRepair (Sheet 2of2).dgn
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 DEPARTMENT OF
 TRANSPORTATION

BRIDGE PARAPET REPAIRS 2
I-90/94 NB TO I-55 WB RAMP OVER I-55 SN 016-1140

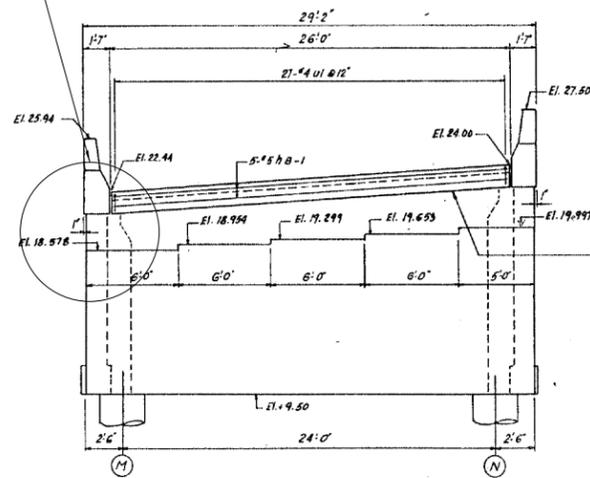
SCALE: SHEET S19-6 OF S19-7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	130
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

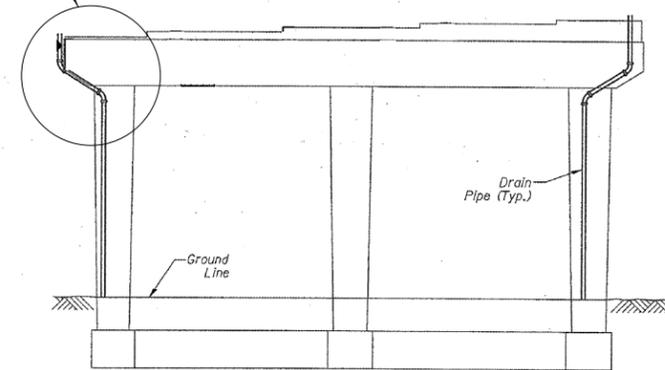
ITEM	UNIT	QUANTITY
Bridge Drainage System Repair	FOOT	17

Drain pipe section broken to be replaced (2'-0")



ABUTMENT 18: SOUTH ELEVATION
(Looking North)

Drain pipe section broken to be replaced (15'-0")



PIER 14: SOUTH ELEVATION
(Looking North)

DRAINAGE REPAIR NOTES

1. The locations shown as required drainage repairs identify the general deficiency. The drainage system is shown schematically. It shall be the Contractor's responsibility to verify the locations 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.
2. 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.
3. When existing drain pipes are wrapped with tape, the tape shall be removed, if the pipe is broken or missing a connection, the pipe shall be replaced or otherwise new tape shall be provided. The type of tape shall be approved by the Engineer. The cost shall be included in "Bridge Drainage System Repairs" and the length measured shall be the length of the pipe replaced or length of pipe re-taped.
4. The Contractor shall wrap any joints that are leaking as directed by the Engineer. The cost shall be included in "Bridge Drainage System Repairs".
5. For pier location, see General Plan and Elevation Sheet.

FILE PATH = P:\1710-746 IDOT District 1\NO 2 Den Rgn B-ridge Repairs\Sheet Files\SN 016-1140\0161140-007-Downspout Repairs ABUT 18.P 14.dgn



0161140-007-Downspout Repairs ABUT 18, P 14.dgn
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PLOT SCALE =
PLOT DATE = 5/2/2018

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DATE - 03/19/2018

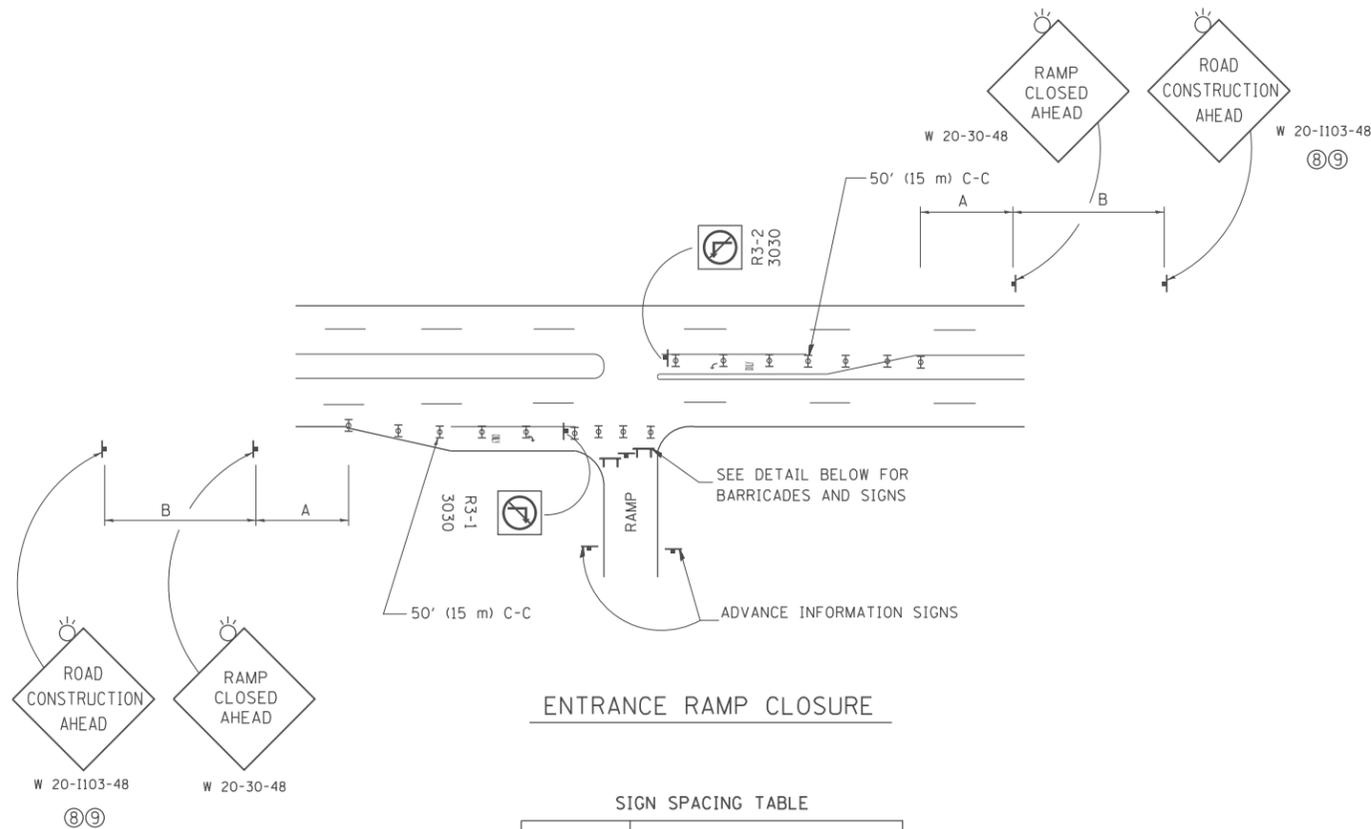
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF
TRANSPORTATION

DOWNSPOUT REPAIRS ABUTMENT 18 AND PIER 14
I-90/94 NB TO I-55 WB RAMP OVER I-55 SN 016-1140

SCALE: SHEETS 19-7 OF 519-7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	131
CONTRACT NO. 62G16				
ILLINOIS FED. AID PROJECT				

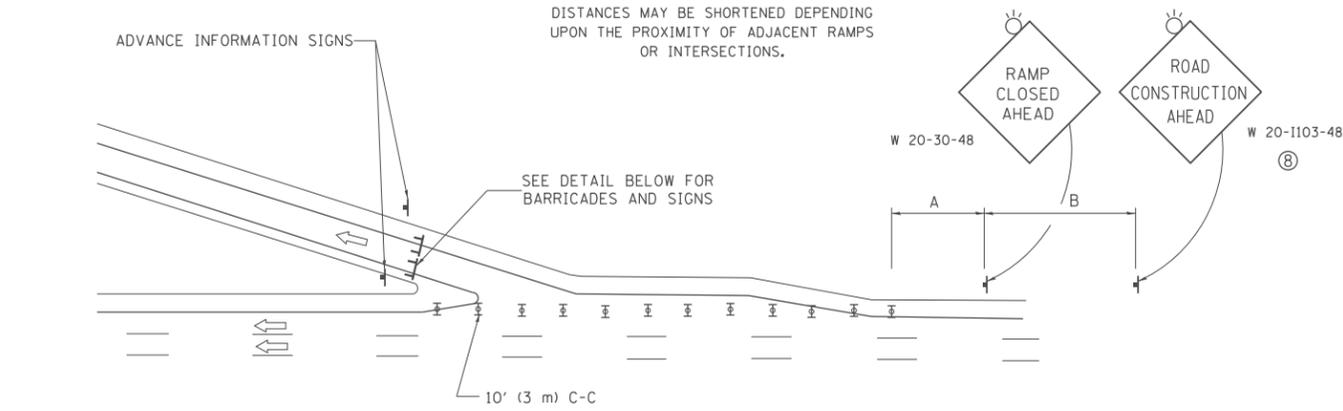


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

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

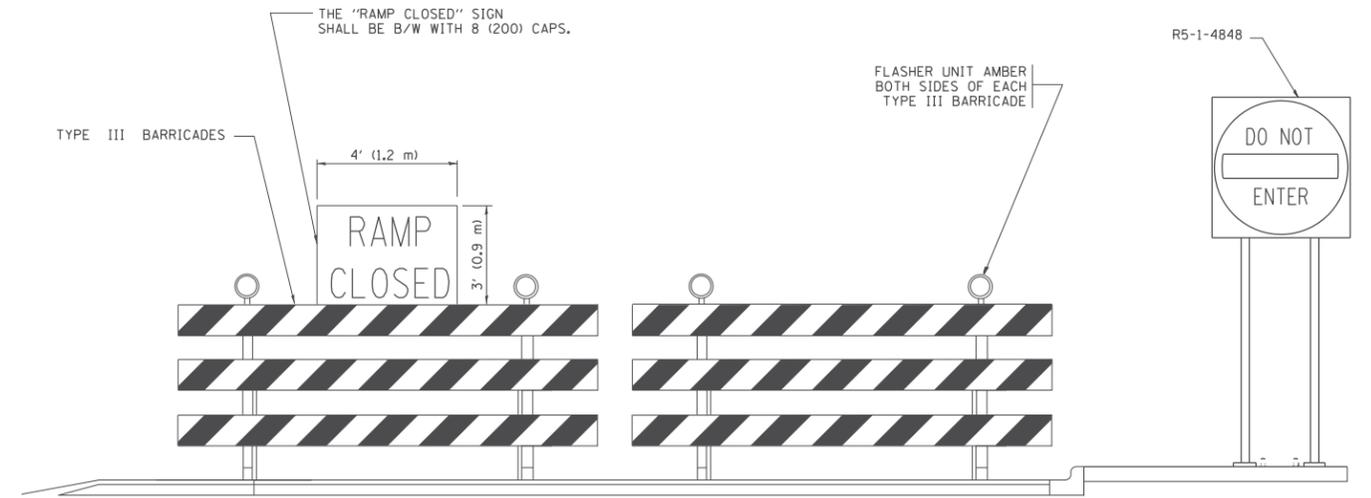
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

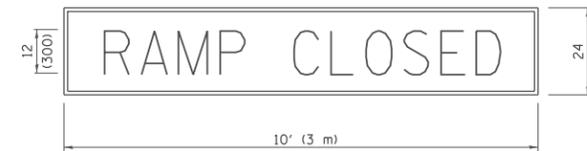
SYMBOLS

- ⊥ TYPE II BARRICADE OR DRUM
- ⊥ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



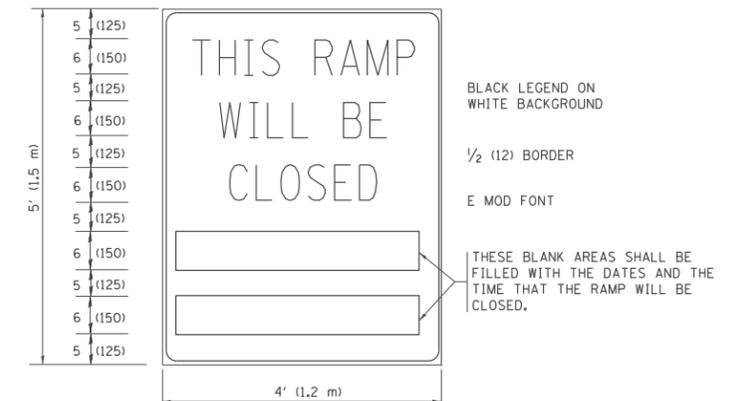
DETAIL FOR REQUIRED BARRICADES & SIGNS

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



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 VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- 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.

FILE NAME =	USER NAME = footemj	DESIGNED - D.W.S.	REVISED - S.P.B. 01-07
pw:\IL\084EBID\INTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\084EBID\CAD\CADData\CADsheets\tc08.dgn		CHECKED -	REVISED - S.P.B. 12-09
Default	PLOT SCALE = 50.000' / in.	DATE - 02-83	REVISED - M.D. 06-13
	PLOT DATE = 11/27/2017		REVISED - M.D. 01-18

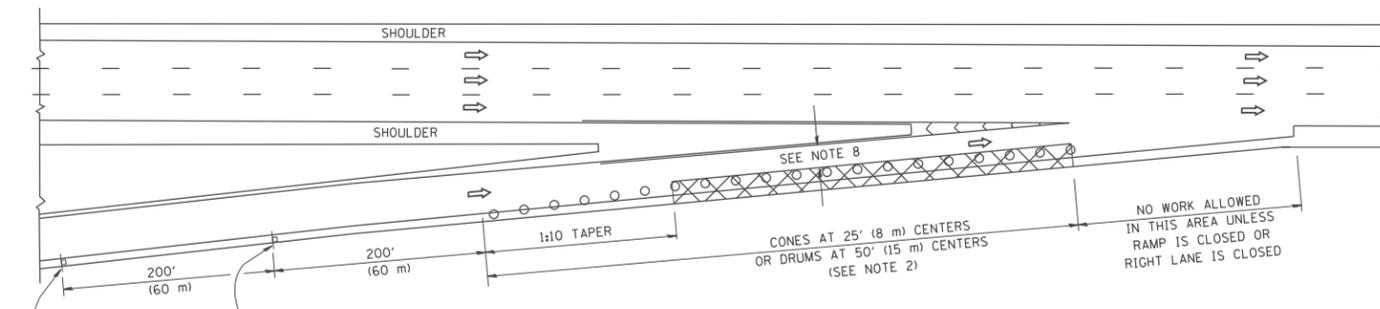
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

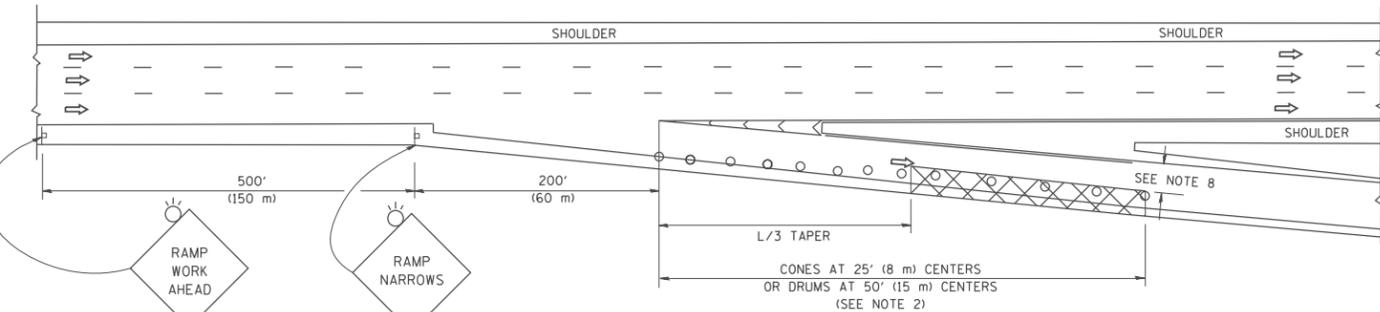
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2018-008-BJR	COOK	133	132
TC-08		CONTRACT NO. 62G16		
ILLINOIS FED. AID PROJECT				

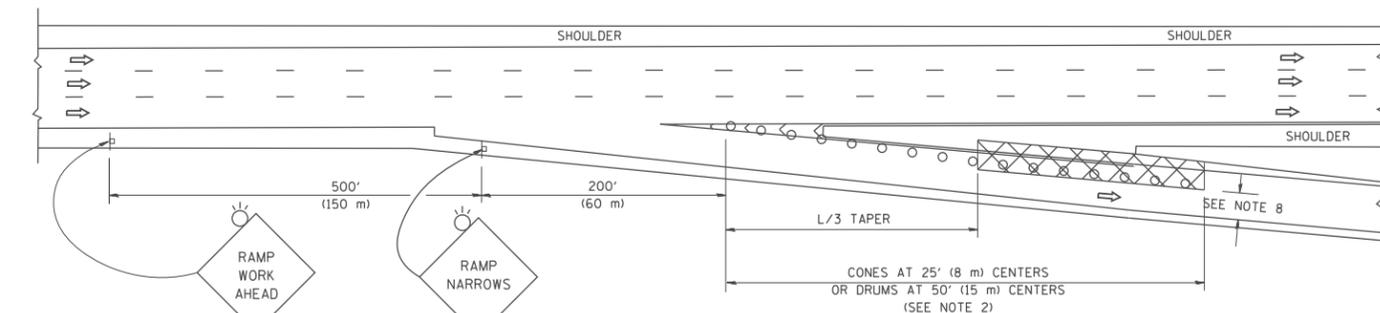
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

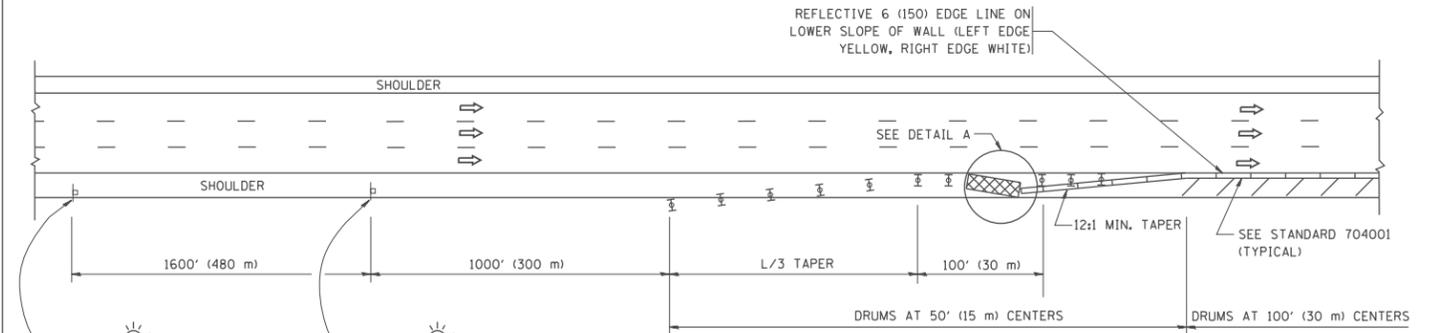
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

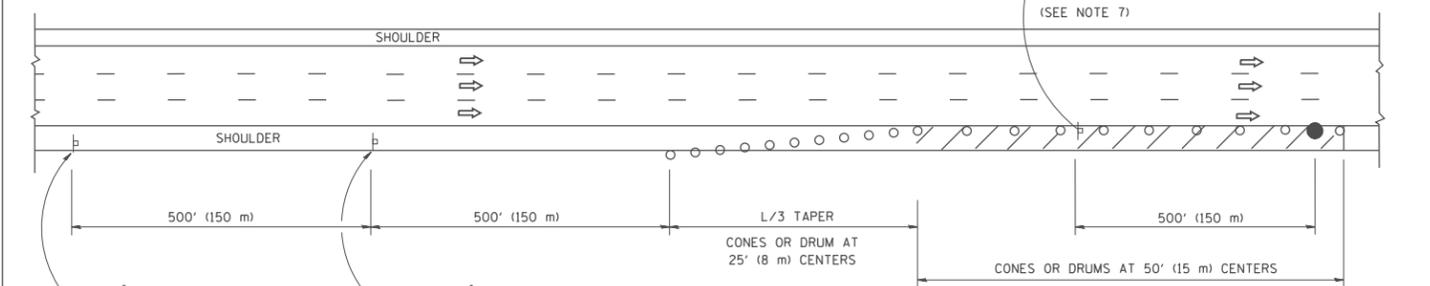
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC: $L=0.65(W)(S)$ ENGLISH: $L=(W)(S)$
	W = WIDTH OF OFFSET IN FEET (METERS)
	S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
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.
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 ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

SHOULDER CLOSURE DETAILS

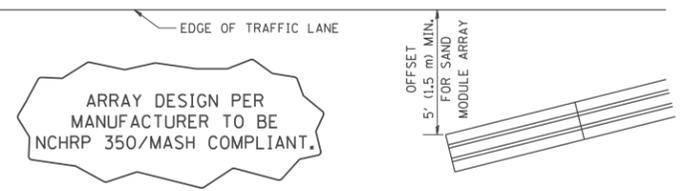


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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



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

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

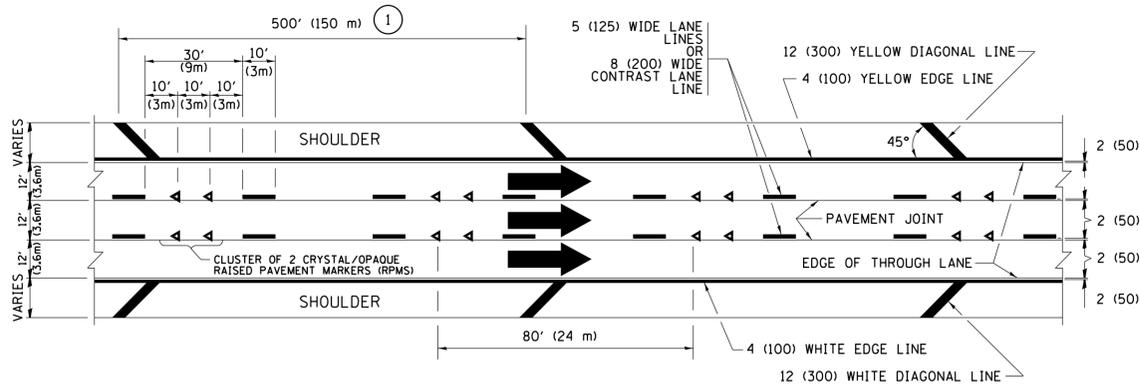
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Default	PLOT SCALE = 50.0000' / in.	DATE - 11-96	REVISED - M.D. 06-13
	PLOT DATE = 11/27/2017		REVISED - M.D. 01-18

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

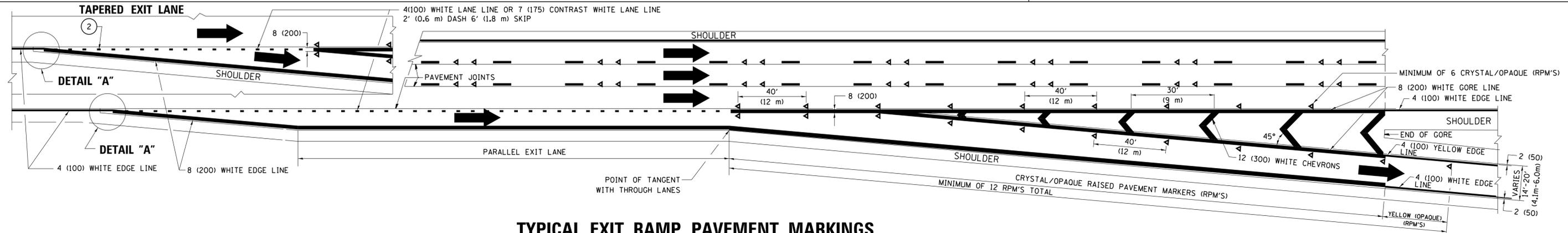
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-008-BJR	COOK	133	133
	TC-17		CONTRACT NO. 62C16	
ILLINOIS FED. AID PROJECT				



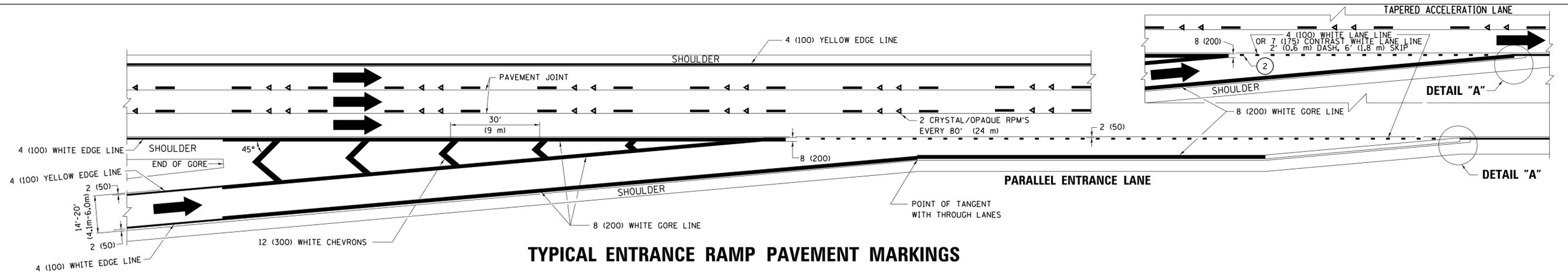
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

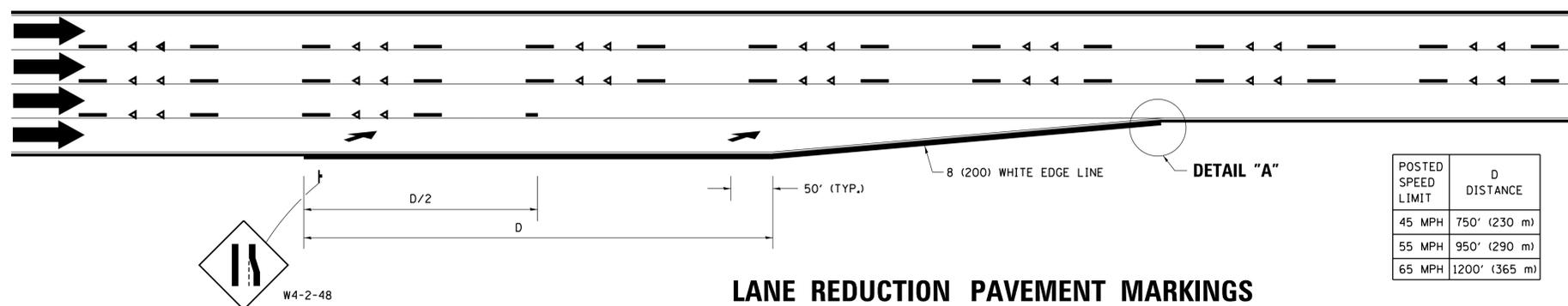
1. THERMOPLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON HMA PAVEMENTS.
2. POLYUREA OR MODIFIED URETHANE PAVEMENT MARKING LINE SHALL BE USED FOR ALL EDGE LINES, GORE LINES, AND DIAGONAL LINES ON PCC PAVEMENTS.
3. PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, INLAID OR GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENTS.
4. CONTRAST PREFORMED PLASTIC PAVEMENT MARKING LINE TYPE B, GROOVE IN, SHALL BE USED FOR ALL LANE LINES ON PCC PAVEMENT.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

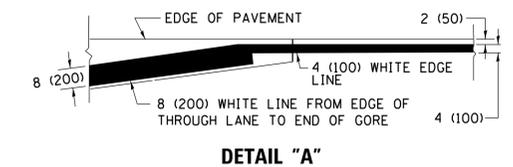


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

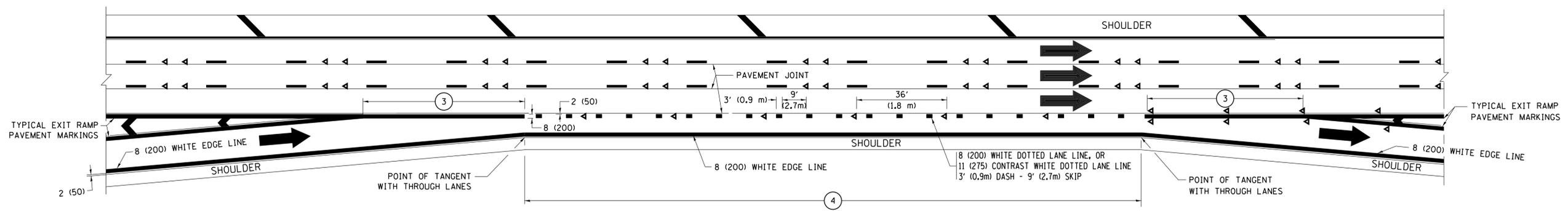


LANE REDUCTION PAVEMENT MARKINGS

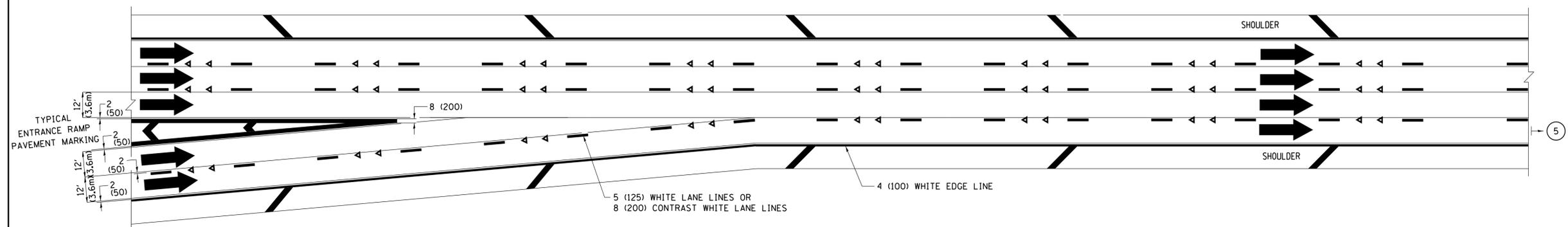
POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



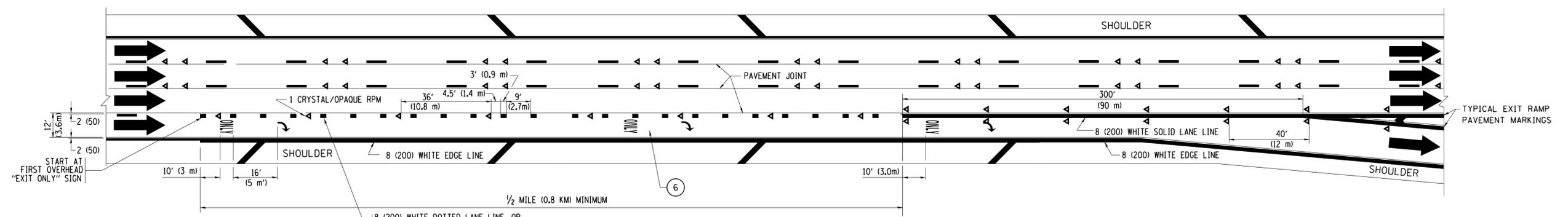
- NOTES:**
- 1 THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
 - 2 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.



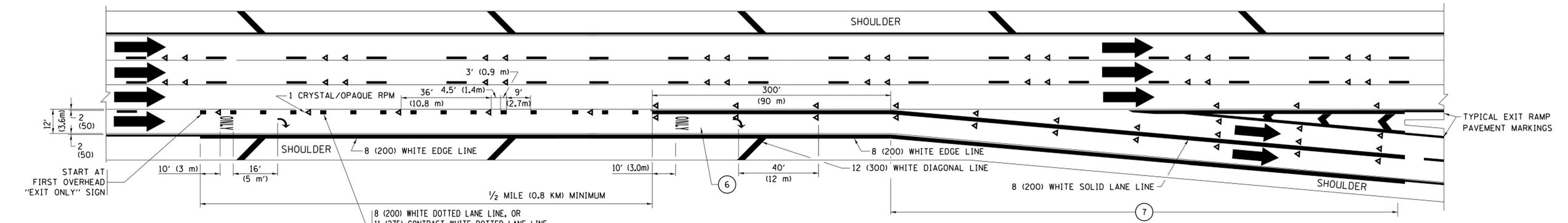
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

- NOTES:**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED GORE.

FILE NAME =	USER NAME = footemj	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBID\INTEG\11\inois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\Dist... DRAWN\CADData\CADsheets\tc12.dgn		CHECKED -	REVISED - S.P.B. 01-07		94	2018-008-BJR	COOK	133	133C			
Default	PLOT SCALE = 50.0000' / in.	DATE - 01-90	REVISED - S.P.B. 01-10		TC-12			CONTRACT NO. 62G16				
	PLOT DATE = 9/6/2017		REVISED - M.D. 09-17		SCALE: NONE	SHEET 2	OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		