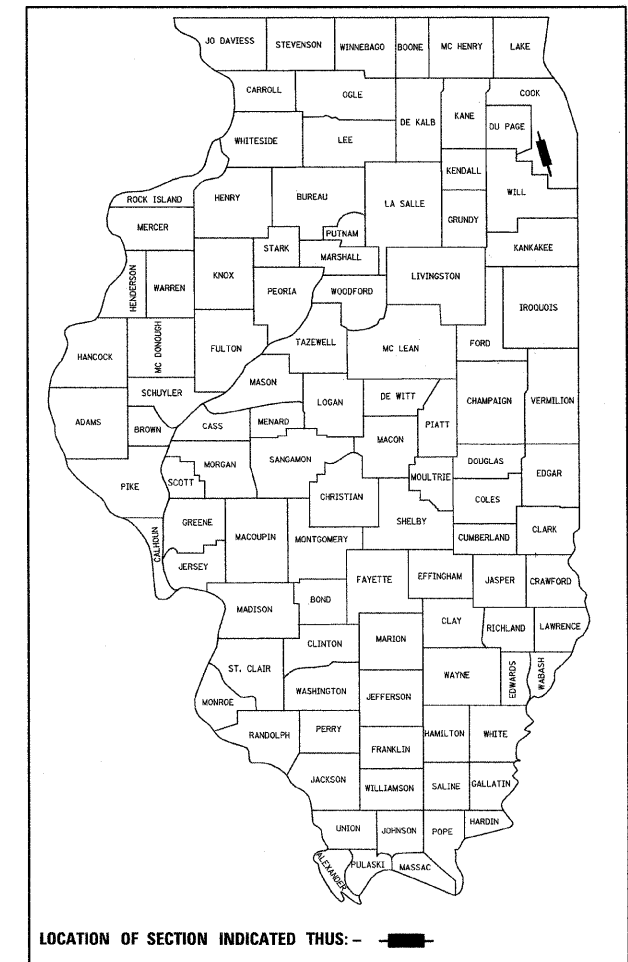


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	1
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94

D-91-279-07



LOCATION OF SECTION INDICATED THUS: - ■ -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS**

**F.A.P. RTE. 373 (IL. RTE. 171)
SECTION: 0707-608 HB-I-4
OVER 47TH STREET TO
55TH STREET BRIDGE COMPLEX AT I-55**

**BRIDGE DECK REPAIRS
COOK COUNTY
C-91-279-07
LYONS TOWNSHIP
R 12 E**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL
ADT: 16,000 (2005), 29,295 (2021)
DESIGN SPEED LIMIT: 50 MPH
POSTED SPEED LIMIT: 50 MPH

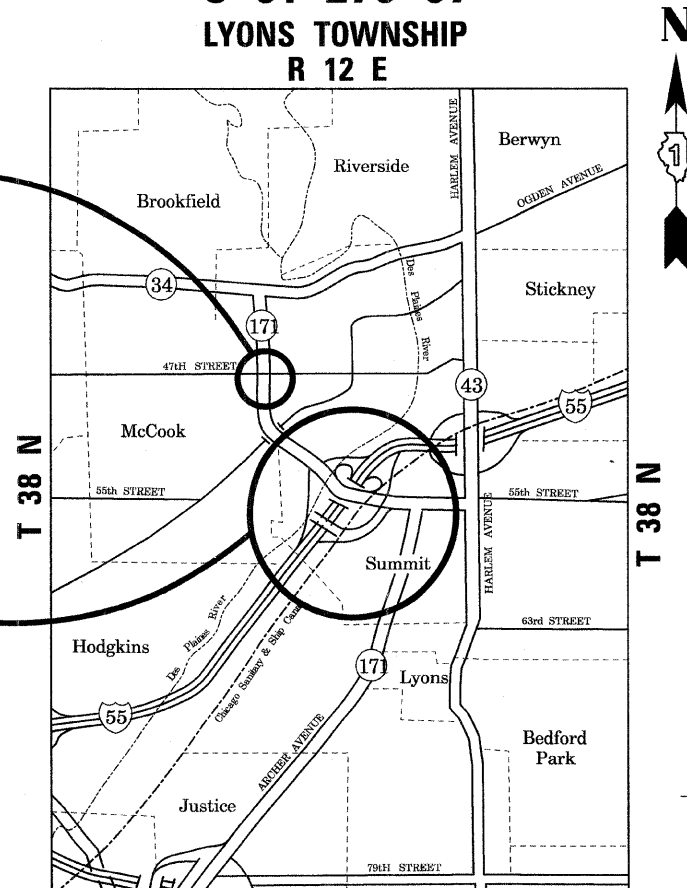
SCOPE OF WORK

WITHIN THE PROJECT LIMITS TWELVE (12) BRIDGE STRUCTURES WILL HAVE INTERIM REPAIRS TO THE BRIDGE DECKS.

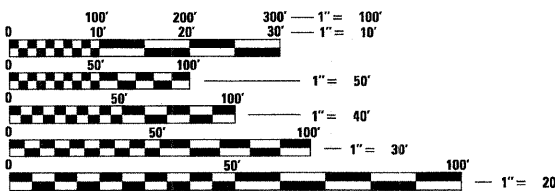
IMPROVEMENTS LOCATED IN THE VILLAGE OF SUMMIT,
COOK COUNTY

**LOCATION OF WORK
IL. RTE. 171 OVER W. 47TH ST.
S.N. 016-1000
S.N. 016-1001**

**LOCATION OF WORK
IL. RTE. 171 AT I-55 INTERCHANGE
S.N. 016-0485, S.N. 016-0486, S.N. 016-0487,
S.N. 016-0488, S.N. 016-0489, S.N. 016-1026,
S.N. 016-2454, S.N. 016-2455, S.N. 016-2456 &
S.N. 016-2457**



**R 12 E
LOCATION MAP
NOT TO SCALE**



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.

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



Bhadresh N. Shah 11/21/08
BHADRESH N. SHAH
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS LIC. No. 081-004476
EXPIRES: 11-30-10

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED DECEMBER 3, 20 08

Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

January 30, 20 09
Charles G. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

January 30, 20 09
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS / PLANNERS / SURVEYORS
211 W. WACKER DRIVE CHICAGO, IL. 60606
TELEPHONE: 312-372-2023

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

DISTRICT ONE - DESIGN PROJECT MANAGER: ISAAC KWARTENG (847) 705-4230

CONTRACT NO. 60C94

GROSS & NET LENGTH = 5,630 FT. = 1.066 MILES

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, LIST OF STATE STANDARDS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	SITE PLAN
5	CONSTRUCTION STAGING NOTES
6	STAGE I CONSTRUCTION & STAGE I MAINTENANCE OF TRAFFIC
7	STAGE II CONSTRUCTION & STAGE II MAINTENANCE OF TRAFFIC

S.N. 016-0485

8	GENERAL PLAN & ELEVATION
9	DECK CROSS SECTION & STAGING DETAILS
10	DECK CONCRETE PATCHING

S.N. 016-0486 & S.N. 016-0487

11	GENERAL PLAN & ELEVATION
12	GENERAL PLAN & ELEVATION
13	DECK CROSS SECTION
14	DECK CROSS SECTION
15	DECK CONCRETE PATCHING
16	DECK CONCRETE PATCHING
17	DECK CONCRETE PATCHING
18	DECK CONCRETE PATCHING
19	DECK CONCRETE PATCHING

S.N. 016-0488 & S.N. 016-0489

20	GENERAL PLAN & ELEVATION
21	DECK CONCRETE PATCHING
22	DECK CROSS SECTION
23	DECK CROSS SECTION

S.N. 016-1000 & S.N. 016-1001

24	DECK CONCRETE PATCHING
----	------------------------

S.N. 016-1026

25	GENERAL PLAN & ELEVATION
26	PLAN & EXISTING DECK CROSS SECTION
27	JOINT REPLACEMENT
28	BAR SPLICER ASSEMBLY DETAILS
29	PREFORMED STRIP SEAL JOINT

S.N. 016-2454 & S.N. 016-2455

30	GENERAL PLAN & ELEVATION
31	DECK CONCRETE PATCHING

S.N. 016-2456 & S.N. 016-2457

32	GENERAL PLAN & ELEVATION
33	DECK CONCRETE PATCHING
34	DECK CONCRETE PATCHING
35	DECK CONCRETE PATCHING
36	EXPANSION JOINT DETAILS
37	PREFORMED STRIP SEAL JOINT

38	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES, PARTIAL RAMP CLOSURES (TC17)
39	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC 13).
40	PERMANENT PROTECTION SHIELD (PPS1)

LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
701411-05	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701421-02	LANE CLOSURE, MULTILANE, DAY OPERATION, FOR SPEEDS > 45 MPH TO 55 MPH
701422-02	LANE CLOSURE, MULTILANE, FOR SPEEDS > 45 MPH TO 55 MPH
701901-01	TRAFFIC CONTROL DEVICES

GENERAL NOTES:

- ALL WORK SHALL BE ACCOMPLISHED IN TWO STAGES.
- THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM I.D.O.T. FIELD MAINTENANCE ENGINEERS.
- ALL PAVEMENT MARKINGS AND RAISED REFLECTORS AFFECTED BY THE BRIDGE REPAIRS SHALL BE REPLACED. NOMINAL QUANTITIES HAVE BEEN INCLUDED IN THE CONTRACT FOR THIS WORK.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 AND (847)705-4151, FOR RAMPS, AT LEAST 72 HOURS PRIOR TO INSTALLATION OF THE TEMPORARY TRAFFIC CONTROL DEVICES.
- WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO MOTORING PUBLIC.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS, AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE BID FOR THE WORK.
- THERE IS NO REPAIR WORK NEEDED FOR S.N. 016-0483, S.N. 016-0484, S.N. 016-0985, S.N. 016-0987, S.N. 016-0046, S.N. 016-1000 & S.N. 016-2408.
- DO NOT SCALE THESE PLANS FOR CONSTRUCTION PURPOSE.
- RAISED REFLECTIVE PAVEMENT MARKERS (BRIDGE) SHALL BE LOW PROFILE.

SCOPE OF WORK:

- MARK AREAS OF FULL DEPTH AND PARTIAL DEPTH REPAIRS.
- PLACE PERMANENT PROTECTIVE SHIELDING.
- PERFORM BRIDGE DECK SLAB REPAIRS.
- PERFORM JOINT REPAIRS.
- OVERLAY REMOVAL AND REPLACEMENT.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS,
LIST OF STATE STANDARDS
AND GENERAL NOTES
IL. RTE. 171

SCALE: NONE
DATE: DECEMBER 8, 2008

DRAWN BY: S.J.P./A.C.S.
CHECKED BY: S.J.P./A.C.S.

CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES

CONTRACT NO. 60C94

CODE NO.	ITEM	UNIT	TOTAL QUANTITIES 100% STATE	CONSTRUCTION TYPE CODE										
				S.N. 016-0485 FUNDS	S.N. 016-0486 FUNDS	S.N. 016-0487 FUNDS	S.N. 016-0488 FUNDS	S.N. 016-0489 FUNDS	S.N. 016-1001 FUNDS	S.N. 016-1026 FUNDS	S.N. 016-2454 FUNDS	S.N. 016-2455 FUNDS	S.N. 016-2456 FUNDS	S.N. 016-2457 FUNDS
				SFTY-2A	SFTY-2A	SFTY-2A	SFTY-2A	SFTY-2A	SFTY-2A	SFTY-2A	SFTY-2A	SFTY-2A	SFTY-2A	SFTY-2A
50102400	CONCRETE REMOVAL	CU YD	15.5							11.0				4.5
50157301	PROTECTIVE SHIELD (PERMANENT)	SQ YD	3,395					315			1,540	1,540		
50300255	CONCRETE SUPERSTRUCTURE	CU YD	15.5							11.0				4.5
50300260	BRIDGE DECK GROOVING	SQ YD	367			281		86						
50800205	REINFORCEMENT BARS, EPOXY COATED	<i>POUND</i>	<i>3070</i>								<i>2080</i>			990
50800515	BAR SPLICERS	EACH	32							32				
52000110	PREFORMED JOINT STRIP SEAL	FOOT	107							75				32
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	0.6	0.6	0.6	0.6	0.6		0.6	0.6	0.6	0.6	0.6
67100100	MOBILIZATION	L SUM	1	0.1	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.1	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1
70103817	TRAFFIC CONTROL SURVEILLANCE (SPECIAL)	CAL DA	30	3	3	3	3	3		3	3	3	3	3
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8					4				4	0	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	2,000	200	200	200	200	200		200	200	200	200	200
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	3,000	300	300	300	300	300		300	300	300	300	300
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	80	8	8	8	8	8		8	8	8	8	8
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	80	8	8	8	8	8		8	8	8	8	8
X0322489	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	367			281		86						
X0325775	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	2,400		400	1000		1000						
Z0006225	BRIDGE DECK HYDRO-SCARIFICATION 2 1/2"	SQ YD	367			281		86						
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	327	147	13	83					15	28	8	33
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	114		6	1	2	3	3		7	62	9	21
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1				0.25	0.25			0.25	0.25		

* SPECIALTY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL. RTE. 171

SCALE: NONE
DATE: DECEMBER 8, 2008

DRAWN BY: S.J.P./A.C.S.
CHECKED BY: S.J.P./A.C.S.

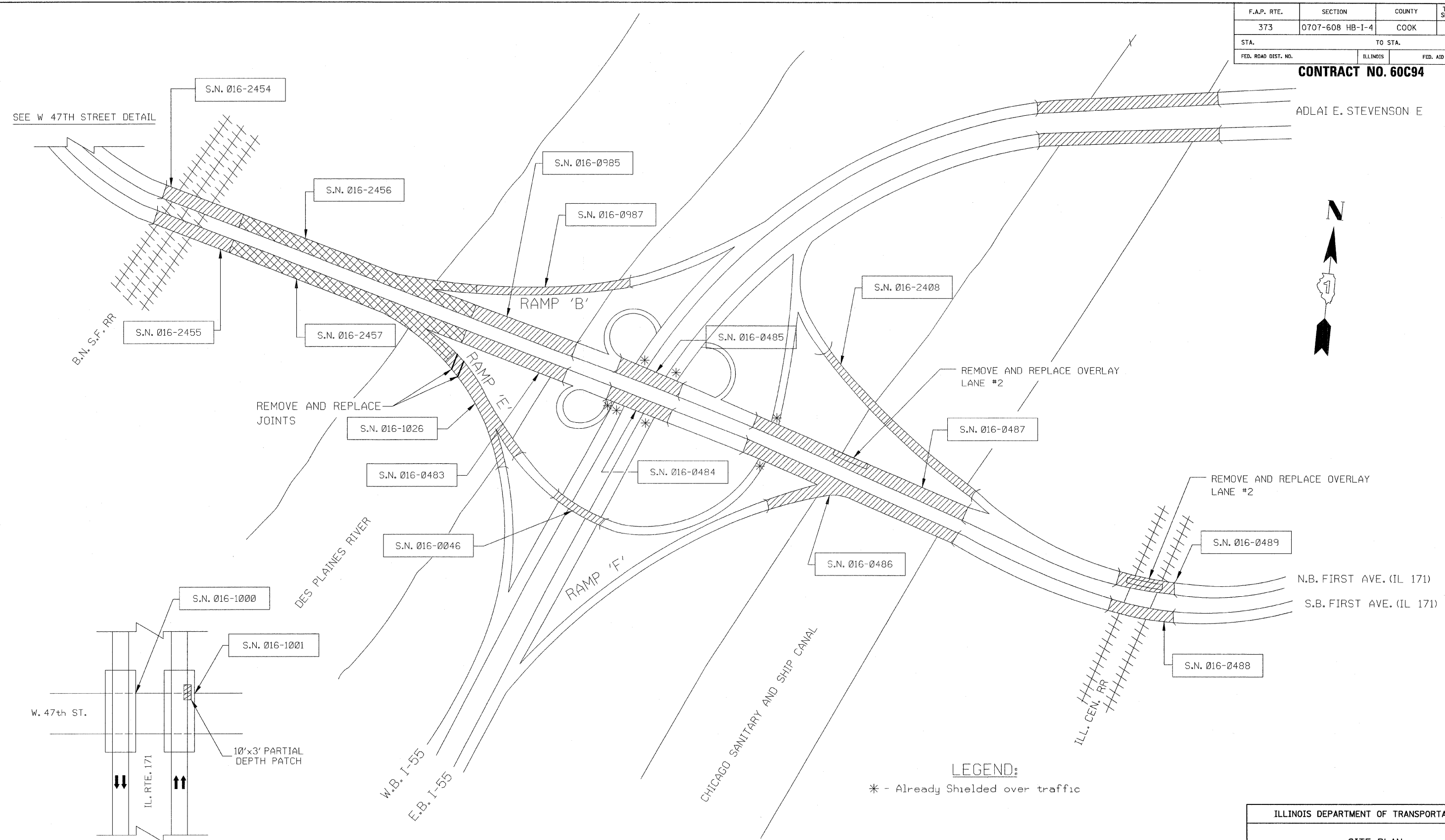
CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

Rev.

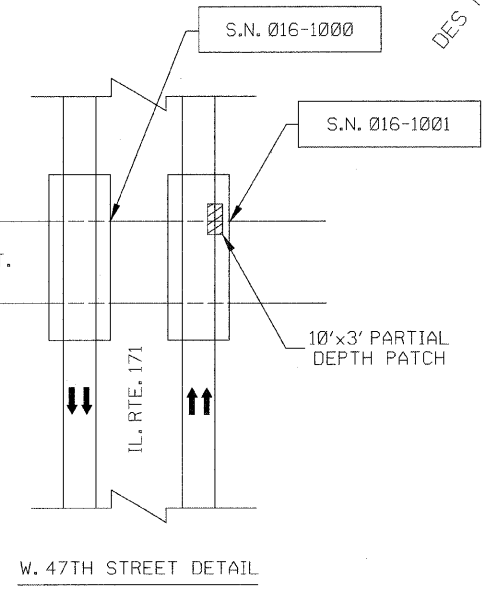
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94

ADLAI E. STEVENSON E



SEE W 47TH STREET DETAIL



W. 47TH STREET DETAIL

SITE PLAN

LEGEND:

* - Already Shielded over traffic

NOTE:

1. HATCHING PATTERNS INDICATE APPROXIMATE LIMITS OF STRUCTURES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SITE PLAN
IL. RTE. 171 INTERCHANGE
AT
F.A.I. I-55 & OVER W. 47TH STREET

SCALE: NONE
DATE: DECEMBER 8, 2008

DRAWN BY: D.L./F.M.
CHECKED BY: B.N.S./S.J.P.

CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94

CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC NOTES

CONSTRUCTION STAGING

STAGE I

- PERFORM BRIDGE DECK PATCHING AND JOINT REPAIRS ON THE INSIDE LANES OF IL. RTE. 171.
- INSTALL PERMANENT SHIELDING ON SPANS ABOVE RAILROAD TRACKS.
- AT THE END OF THIS STAGE, REPLACE ANY MISSING PAVEMENT MARKINGS AND RPM.

STAGE II

- PERFORM BRIDGE DECK PATCHING AND JOINT REPAIRS ON THE OUTSIDE LANES AND SHOULDERS OF IL. RTE. 171 AND RAMPS.
- REMOVE AND REPLACE PORTIONS OF EXISTING OVERLAY.
- PERFORM PARTIAL DEPTH PATCH ON NB IL. RTE. 171 OVER 47TH ST.
- AT THE END OF THIS STAGE REPLACE ANY MISSING PAVEMENT MARKING AND RPM.

MAINTENANCE OF TRAFFIC

STAGE I

- PLACE CHANGEABLE MESSAGE SIGNS TWO (2) WEEKS PRIOR TO START OF CONSTRUCTION.
- CLOSE INSIDE LANES AND PLACE TEMPORARY PAVEMENT MARKINGS.
- PLACE WORK ZONE APPROACH AND DEPARTURE SIGNS AS SHOWN ON IDOT STD. 701422
- PLACE ADVANCED WARNING SIGNS ON I-55 RAMPS.

STAGE II

- CLOSE OUTSIDE LANES AND PLACE TEMPORARY PAVEMENT MARKINGS.
- PARTIAL CLOSURE OF RAMPS ARE AS SHOWN ON THE STAGING PLANS. PERFORM WORK ON RAMPS AND RAMP TAPERS IN TWO SUB-STAGES.
- MAINTAIN TRAFFIC AT ALL RAMP EXITS AND ENTRANCES UTILIZING STD. 701411.
- TRAFFIC CONTROL FOR THE REPLACEMENT OF THE JOINTS ON THE RAMPS IS SHOWN OF THE DETAIL ON SHEET NO. 36.

TRAFFIC CONTROL GENERAL NOTES

1. THE CONTRACTOR SHALL NOT MOUNT SIGNS ON EXISTING SIGNS.
2. A 10' MINIMUM LANE WIDTH (12' MINIMUM ON RAMPS) SHALL BE PROVIDED FOR TRAFFIC DURING CONSTRUCTION.
3. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE TEMPORARY TAPE TYPE III. SEE DECK CROSS SECTION SHEETS FOR COLOR, SIZE AND PLACEMENT.

REVISIONS	
NAME	DATE

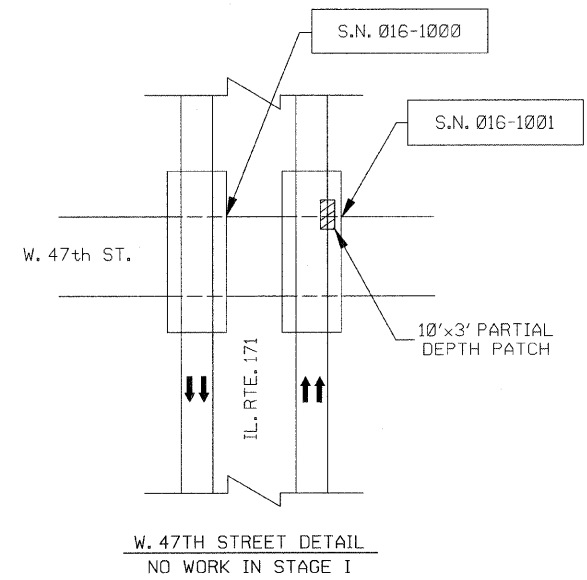
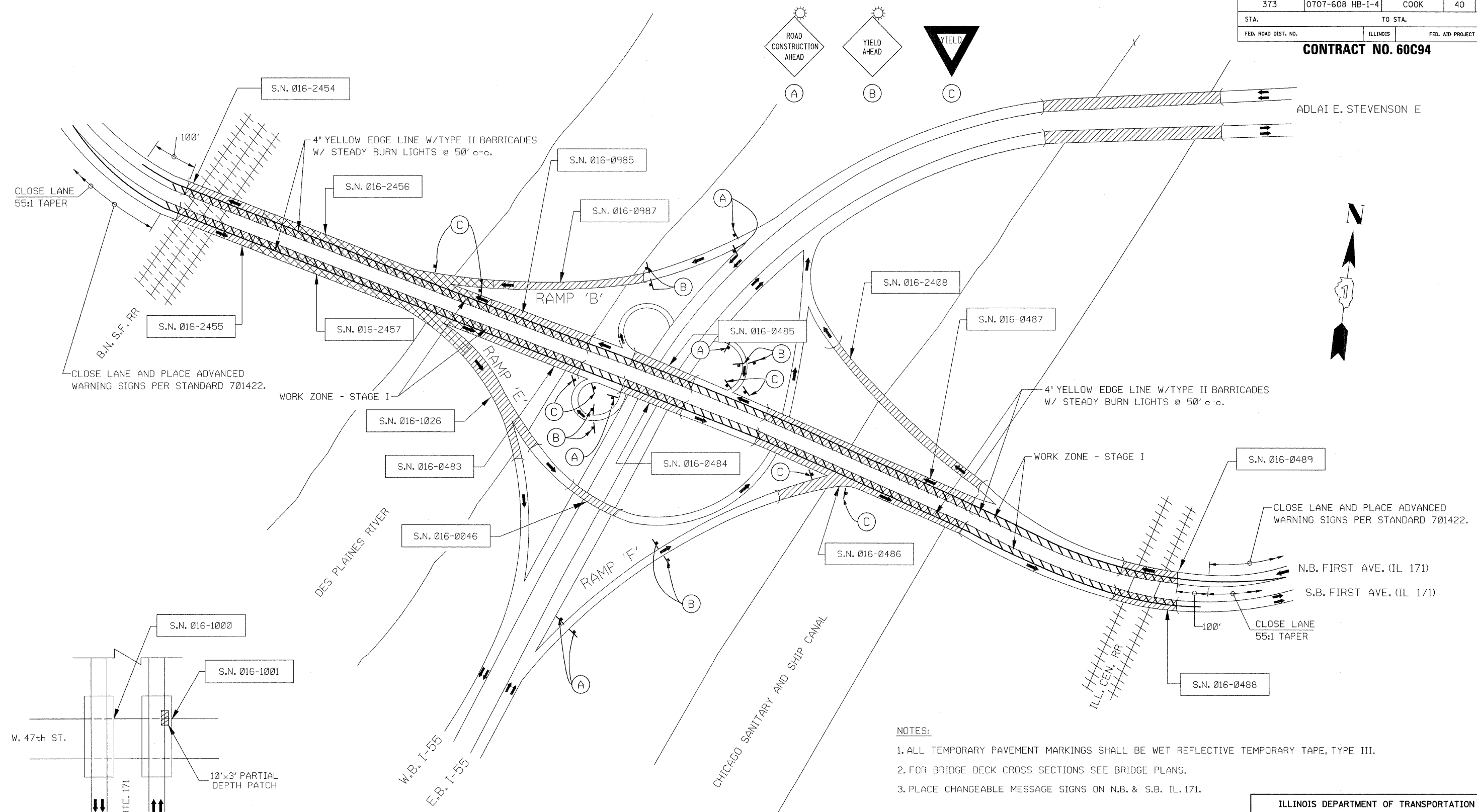
ILLINOIS DEPARTMENT OF TRANSPORTATION	
CONSTRUCTION STAGING NOTES IL. RTE. 171	
SCALE: NONE DATE: DECEMBER 8, 2008	DRAWN BY: D.L./F.M. CHECKED BY: S.J.P./A.C.S.
CHRISTIAN-ROGE & ASSOC., INC. CHICAGO ILLINOIS	

I:\PROJECTS\2008\171\CONSTRUCTION STAGING NOTES.DWG 12/8/2008 3:45:11 PM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-1-4	COOK	40	6
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60C94

ADLAI E. STEVENSON E

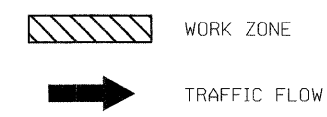


NOTES:

1. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE TEMPORARY TAPE, TYPE III.
2. FOR BRIDGE DECK CROSS SECTIONS SEE BRIDGE PLANS.
3. PLACE CHANGEABLE MESSAGE SIGNS ON N.B. & S.B. IL. 171.

STAGE I CONSTRUCTION

LEGEND:



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

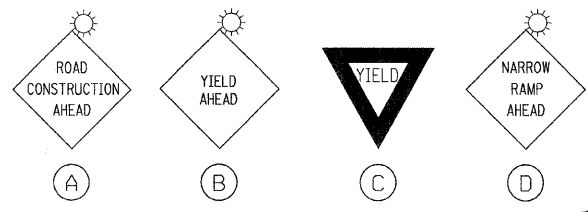
STAGE I CONSTRUCTION & STAGE I MAINTENANCE OF TRAFFIC IL. RTE. 171 INTERCHANGE AT F.A.I. I-55 & OVER W. 47TH STREET

SCALE: NONE DATE: DECEMBER 8, 2008 DRAWN BY: D.L./F.M. CHECKED BY: S.J.P.

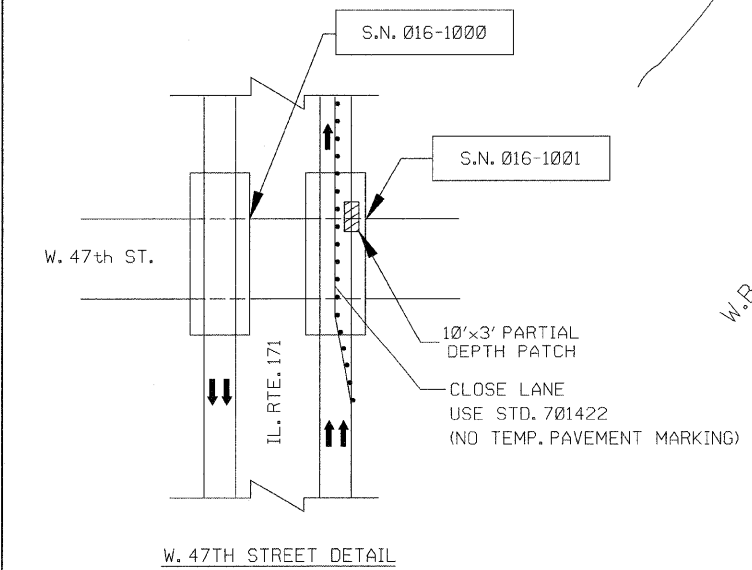
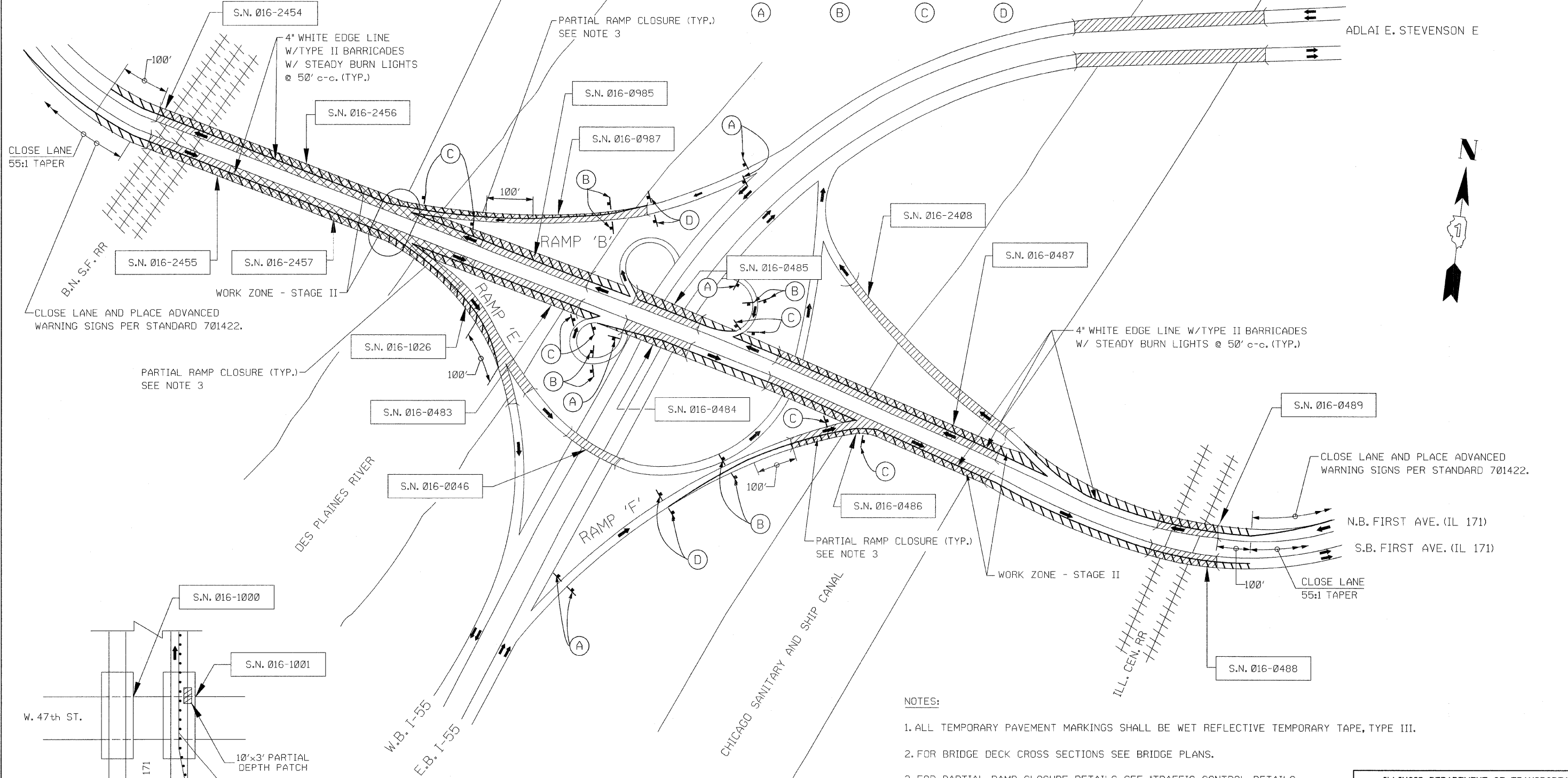
CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94



ADJUST RAMP OPENINGS FOR REPAIR WORK AND RAMP SUB-STAGES. SEE STD. 701411 (TYP. AT ALL RAMP)



NOTES:

1. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE WET REFLECTIVE TEMPORARY TAPE, TYPE III.
2. FOR BRIDGE DECK CROSS SECTIONS SEE BRIDGE PLANS.
3. FOR PARTIAL RAMP CLOSURE DETAILS SEE "TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES".

STAGE II CONSTRUCTION

LEGEND:



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

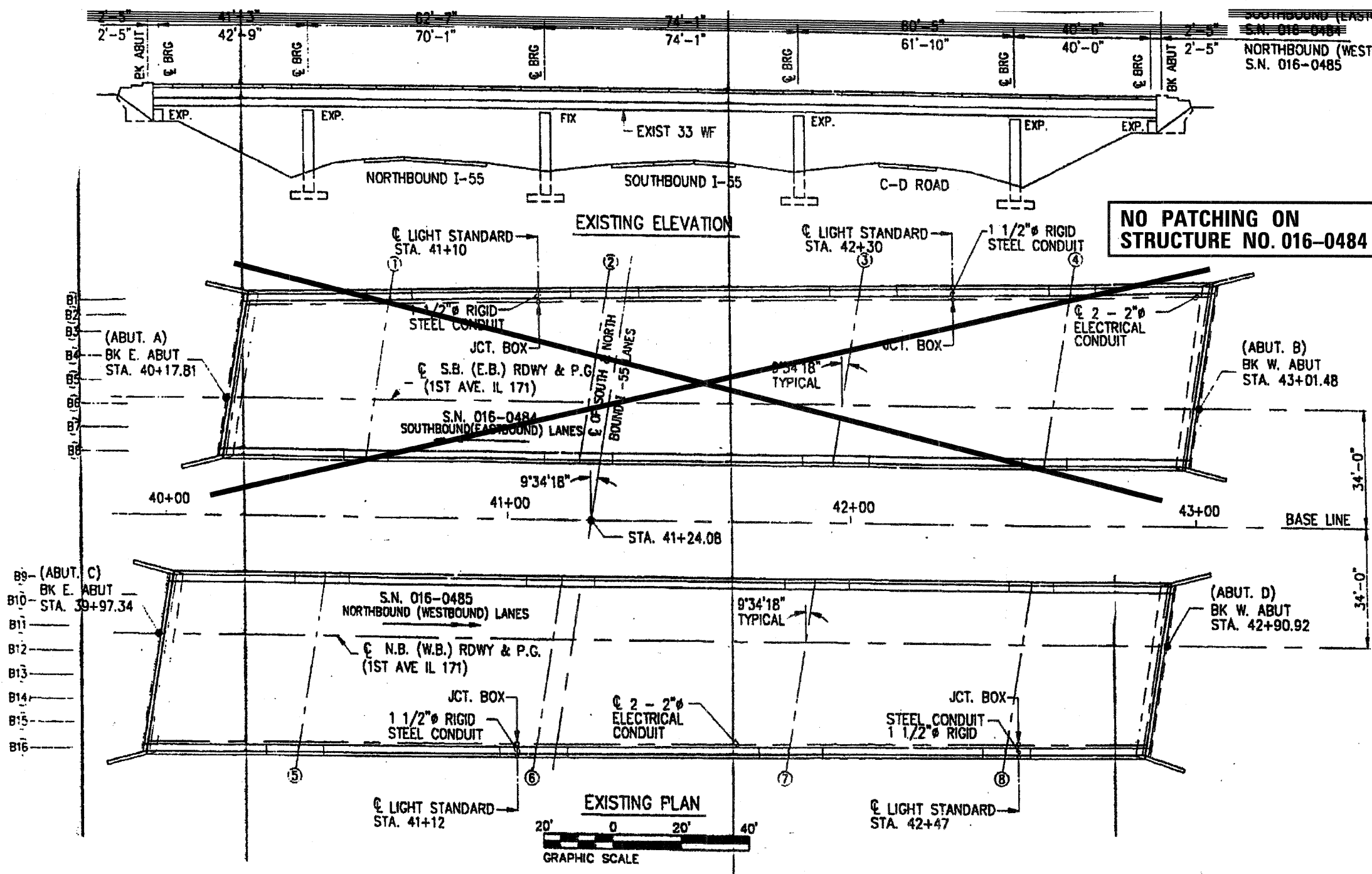
STAGE II CONSTRUCTION & STAGE II MAINTENANCE OF TRAFFIC
IL. RTE. 171 INTERCHANGE
AT
F.A.I. I-55 & OVER W. 47TH STREET

SCALE: NONE
DATE: DECEMBER 8, 2008
DRAWN BY: D.L./F.M.
CHECKED BY: S.J.P.

CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

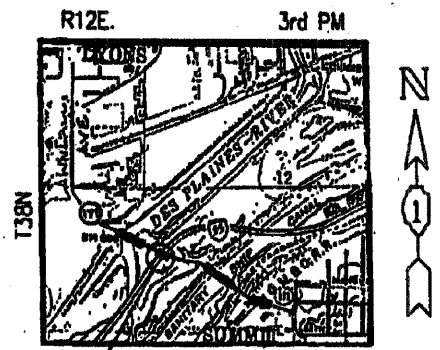
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60C94



**NO PATCHING ON
STRUCTURE NO. 016-0484**

FOR INFORMATION ONLY



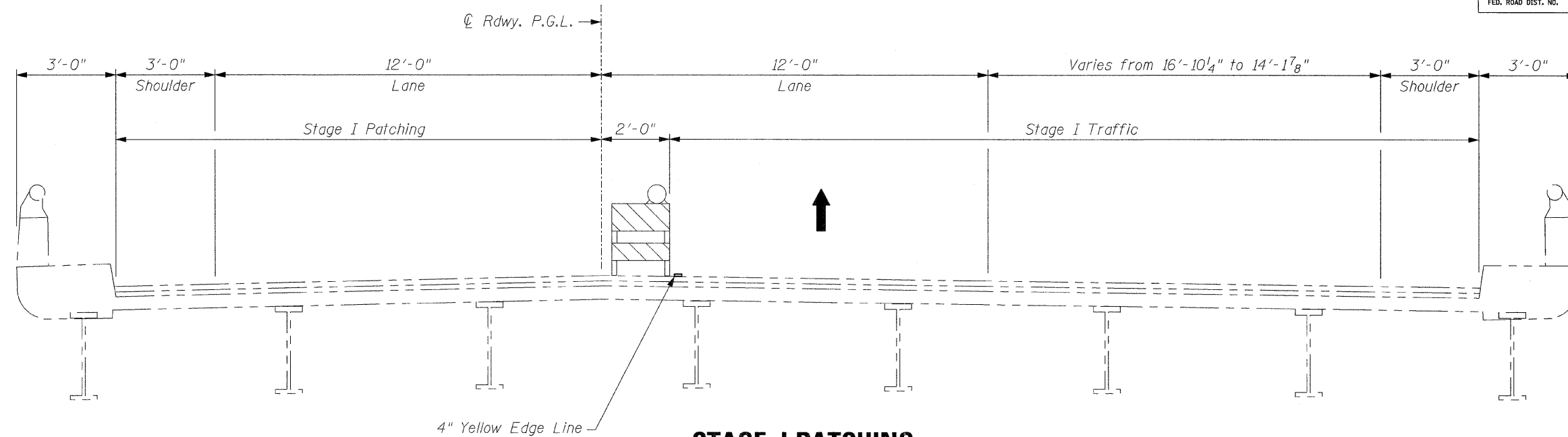
PROPOSED RECONSTRUCTION
LOCATION SKETCH

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
1ST AVE. (IL. RTE. 171) N.B. (W.B.)
OVER
I-55
F.A.I. I-55
F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
COOK COUNTY STATION 41+24.08
STRUCTURE NO. 016-0485
SCALE: NONE
DATE: DECEMBER 8, 2008
DRAWN BY: D.L./F.M.
CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

REVISIONS	
NAME	DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

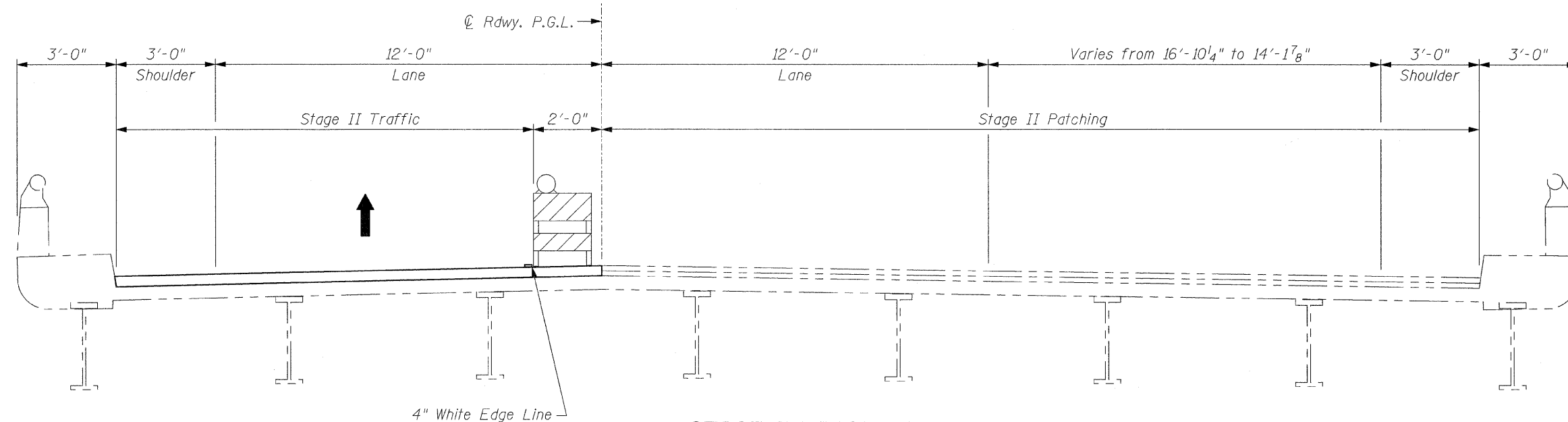
CONTRACT NO. 60C94



STAGE I PATCHING

EXISTING DECK CROSS SECTION

(Looking Upstation - Westbound)



STAGE II PATCHING

EXISTING DECK CROSS SECTION

(Looking Upstation - Westbound)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DECK CROSS SECTION

1ST AVE. (IL. RTE. 171) N.B. (W.B.)
OVER F.A.I. I-55

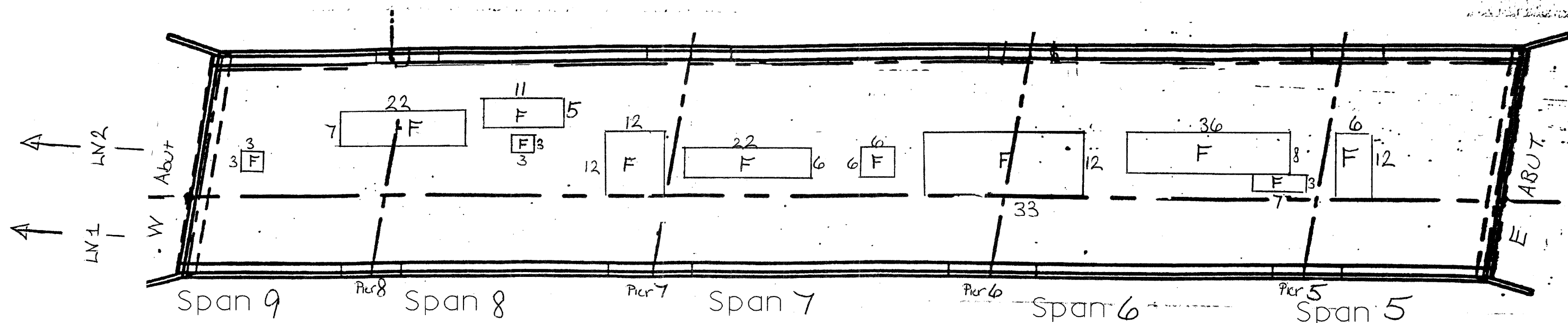
F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
COOK COUNTY STATION 41+24.08
STRUCTURE NO. 016-0485

SCALE: NONE DRAWN BY: D.L./F.M.
DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	10
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60C94



STRUCTURE NO. 016-0485

LEGEND:
 (F) FD = FULL DEPTH

STRUCTURE NO. 016-0485
Already shielded over traffic.

SN: 016-0485 IL 171 NB / 1-55

SPAN	LANE 1		LANE 2			
	FD	PD	FD	PD		
5	0	0	72	0		
6	0	0	507	0		
7	0	0	366	0		
8	0	0	285	0		
9	0	0	86	0		
TOTAL	0	0	1316	0	0	0

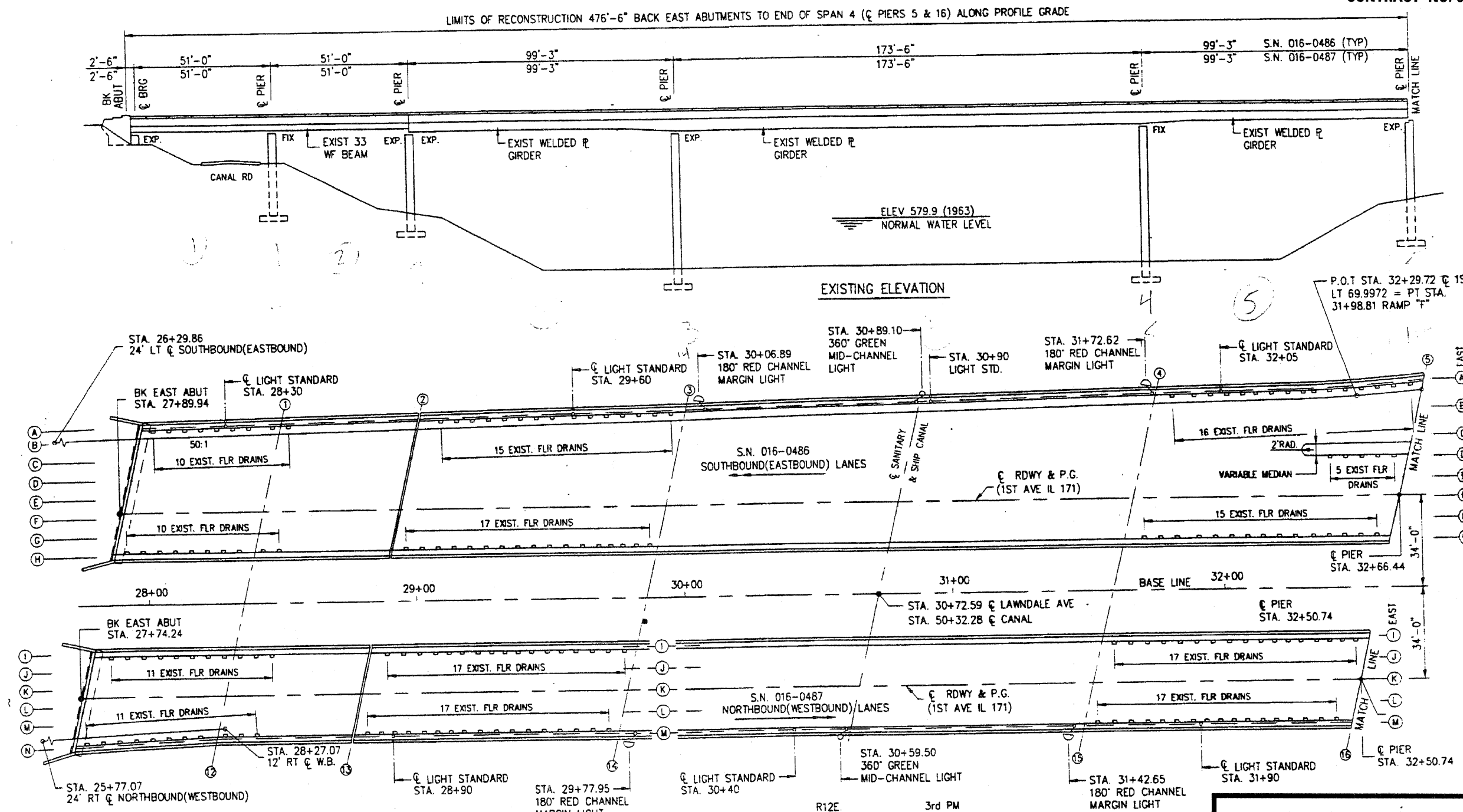
TOTAL FD 1316 SF = 147 SY
 TOTAL PD 0 SF

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DECK CONCRETE PATCHING
 1ST AVE. (IL. RTE. 171) N.B. (W.B.)
 OVER
 F.A.I. 1-55
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 41+24.08
 STRUCTURE NO. 016-0485
 SCALE: NONE DRAWN BY: D.L./F.M.
 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

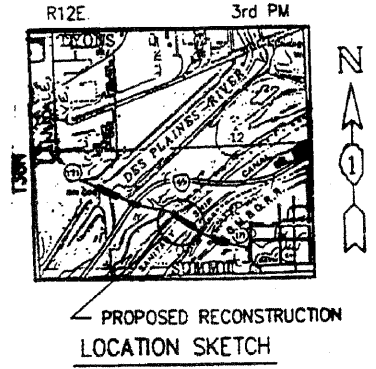
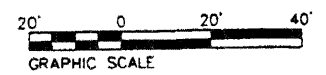
CONTRACT NO. 60C94



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN & ELEVATION
 1ST AVE. (IL. RTE. 171)
 OVER
 F.A.I. I-55
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 41+24.08
 S.N. 016-0486 & S.N. 016-0487
 SCALE: NONE DRAWN BY: D.L./F.M.
 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

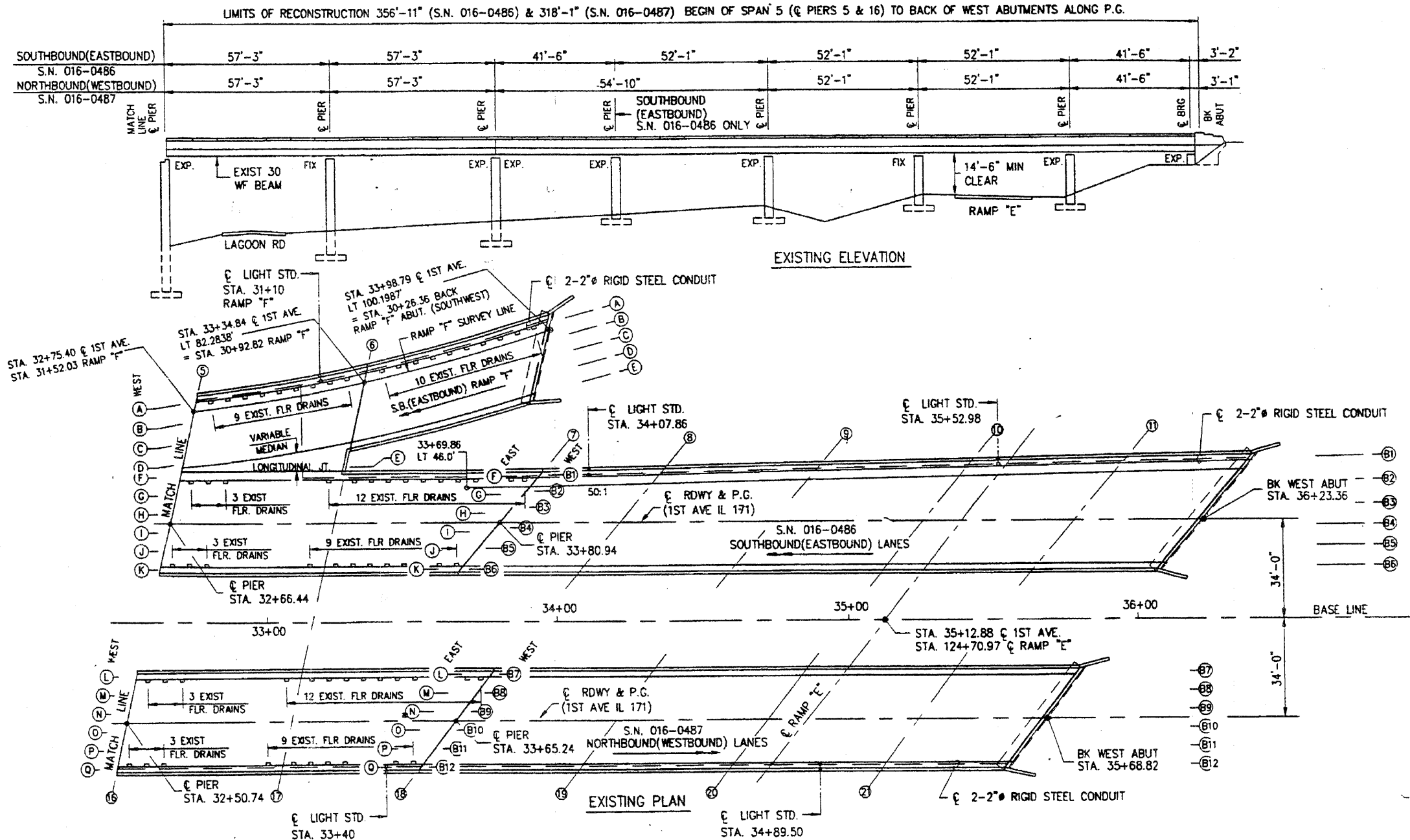
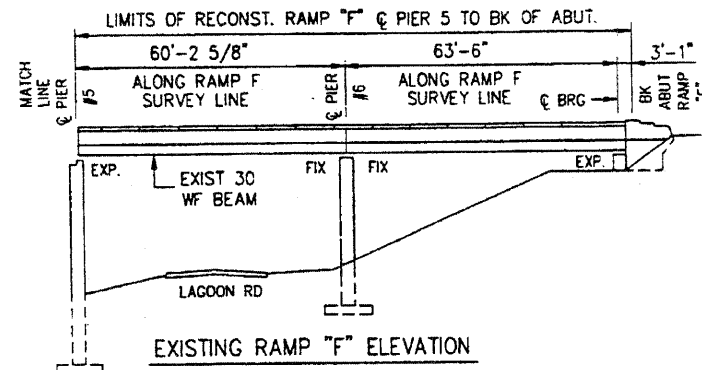
REVISIONS	
NAME	DATE



11/15/2008 2:47:35 PM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60C94



NOTE (A) S.N. 016-0486 S.B.(EASTBOUND) LANES

VARIES AS FOLLOWS
 27'-4"± AT EAST ABUTMENT
 29'-5"± AT PIER 2
 38'-9 5/8"± AT PIER 5 (EAST) RAMP "F" APPROACH
 12'-0" AT PIER 5 (WEST)
 12'-0" AT STA. 33+69.86
 12'-6"± AT PIER 7
 17'-5"± AT WEST ABUTMENT

NOTE (B) S.N. 016-0487 N.B.(WESTBOUND) LANES

VARIES FROM 14'-7"± AT BK OF EAST ABUT. TO 12'-0" AT STA. 28+27.07 AND REMAINS 12'-0" TO THE BK OF WEST ABUT.

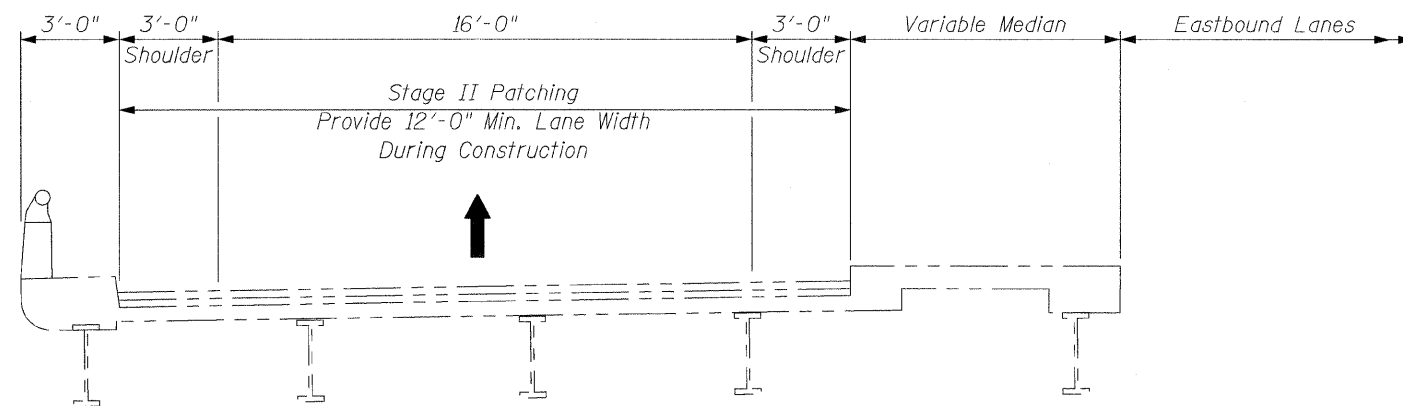
FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

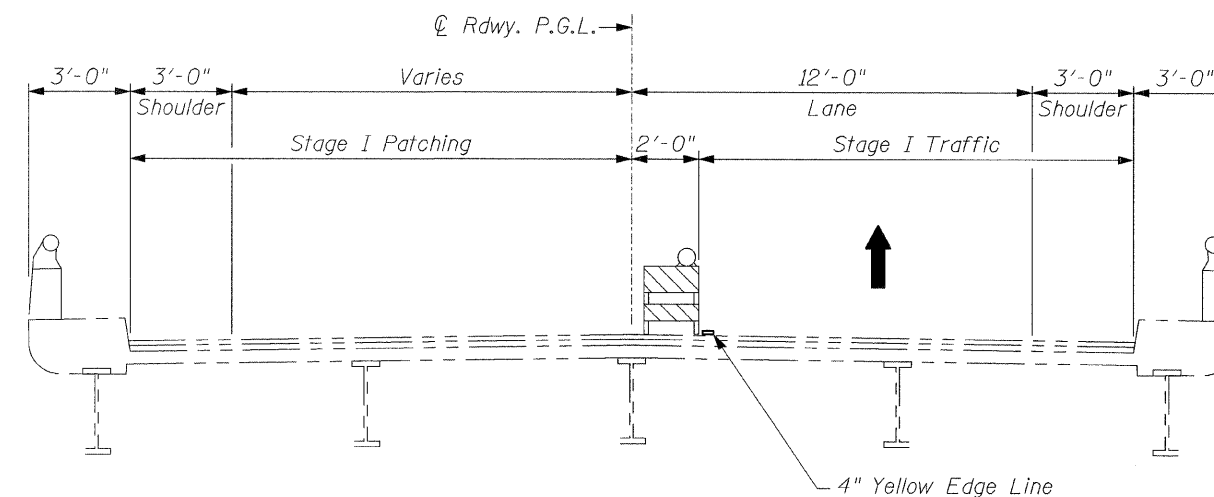
ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN & ELEVATION
 1ST AVE. (IL. RTE. 171)
 OVER
 F.A.I. I-55
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 41+24.08
 S.N. 016-0486 & S.N. 016-0487
 SCALE: NONE DRAWN BY: D.L./F.M.
 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
 CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

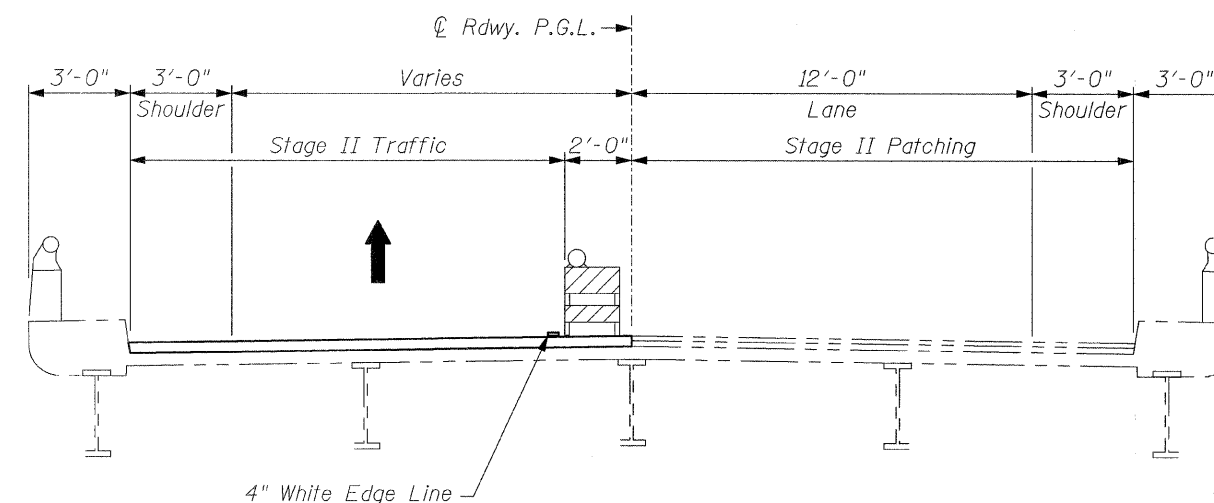
CONTRACT NO. 60C94



STAGE II PATCHING
EXISTING DECK CROSS SECTION - RAMP "F"
 (Looking Upstation - Westbound)



STAGE I PATCHING
EXISTING DECK CROSS SECTION
 (Looking Upstation - Eastbound)



STAGE II PATCHING
EXISTING DECK CROSS SECTION
 (Looking Upstation - Eastbound)

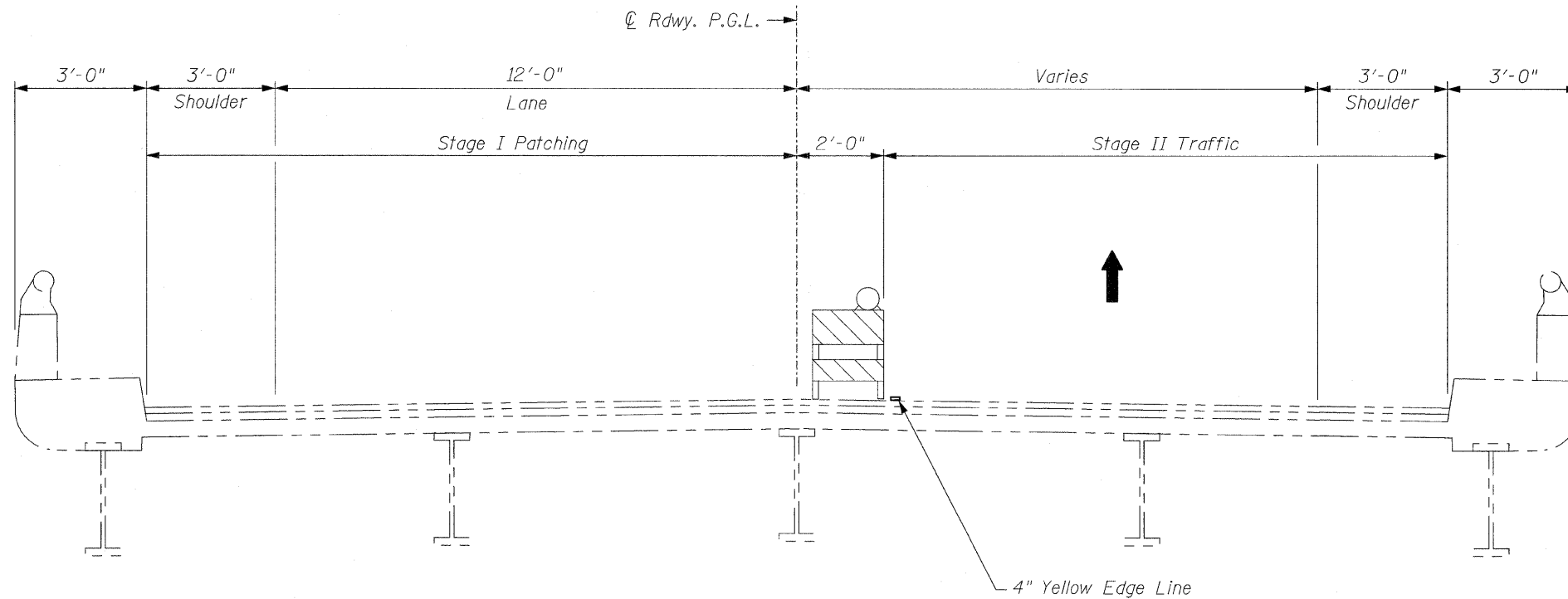
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DECK CROSS SECTION
 1ST AVE. (IL. RTE. 171)
 OVER
 F.A.I. I-55
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 41+24.08
 STRUCTURE NO. 016-0486
 SCALE: NONE DRAWN BY: D.L./F.M.
 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

12/22/2008 2:40:39 PM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	14
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

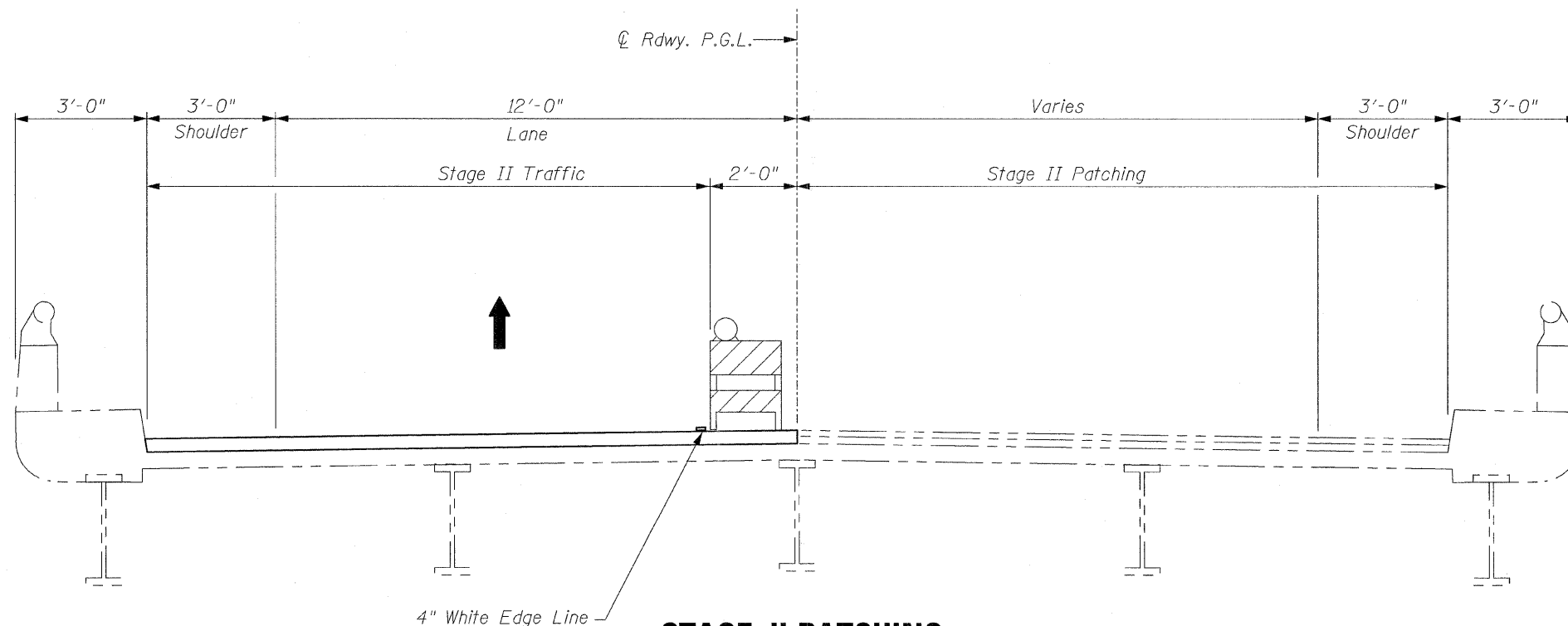
CONTRACT NO. 60C94



STAGE I PATCHING

EXISTING DECK CROSS SECTION

(Looking Upstation - Westbound)



STAGE II PATCHING

EXISTING DECK CROSS SECTION

(Looking Upstation - Westbound)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DECK CROSS SECTION
 1ST AVE. (IL. RTE. 171)
 OVER
 F.A.I. I-55
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 41+24.08
 STRUCTURE NO. 016-0487
 SCALE: NONE DRAWN BY: D.L./F.M.
 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

12/29/2008 2:47:21 PM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94

S.N. 016-0486

IL. 171 SB/San & ship

SPAN	LANE	LANE 1		LANE 2		LANE 3	
		FD	PD	FD	PD	FD	PD
1	0	0	0	0	0	9	0
2	0	0	0	0	0	0	0
3	0	0	31	0	0	56	0
4	0	1	0	0	0	0	16
5	0	0	0	0	0	0	0
6	0	0	0	0	0	0	12
7	0	0	0	0	0	0	0
8	0	4	0	0	0	0	0
9	0	0	0	0	0	0	0
10	0	0	9	0	0	0	0
11	16	0	0	0	0	0	0
TOTAL	16	5	40	16	65	28	

TOTAL FD 121 SF = 13 SY
TOTAL PD 49 SF = 6 SY

S.N. 016-0487

IL. 171 NB/San & ship

SPAN	LANE	LANE 1		LANE 2		LANE 3	
		FD	PD	FD	PD	FD	PD
12	0	0	0	0	0	71	0
13	0	0	0	6	16	0	0
14	0	0	32	0	0	0	0
15	0	2	0	0	9	0	0
16	0	0	0	0	0	0	0
17	19	1	104	22*	0	0	0
18	0	0	101	9*	0	0	0
19	0	0	290	0	0	0	0
20	0	0	25	0	0	0	0
21	0	0	51	0	0	0	0
22	0	0	28	9*	0	0	0
TOTAL	19	3	631	6	96	0	0

TOTAL FD 746 SF = 83 SY
TOTAL PD 9 SF = 1 SY

* PARTIAL DEPTH REPAIR PATCHES ARE FOR INFORMATION ONLY.

ILLINOIS DEPARTMENT OF TRANSPORTATION

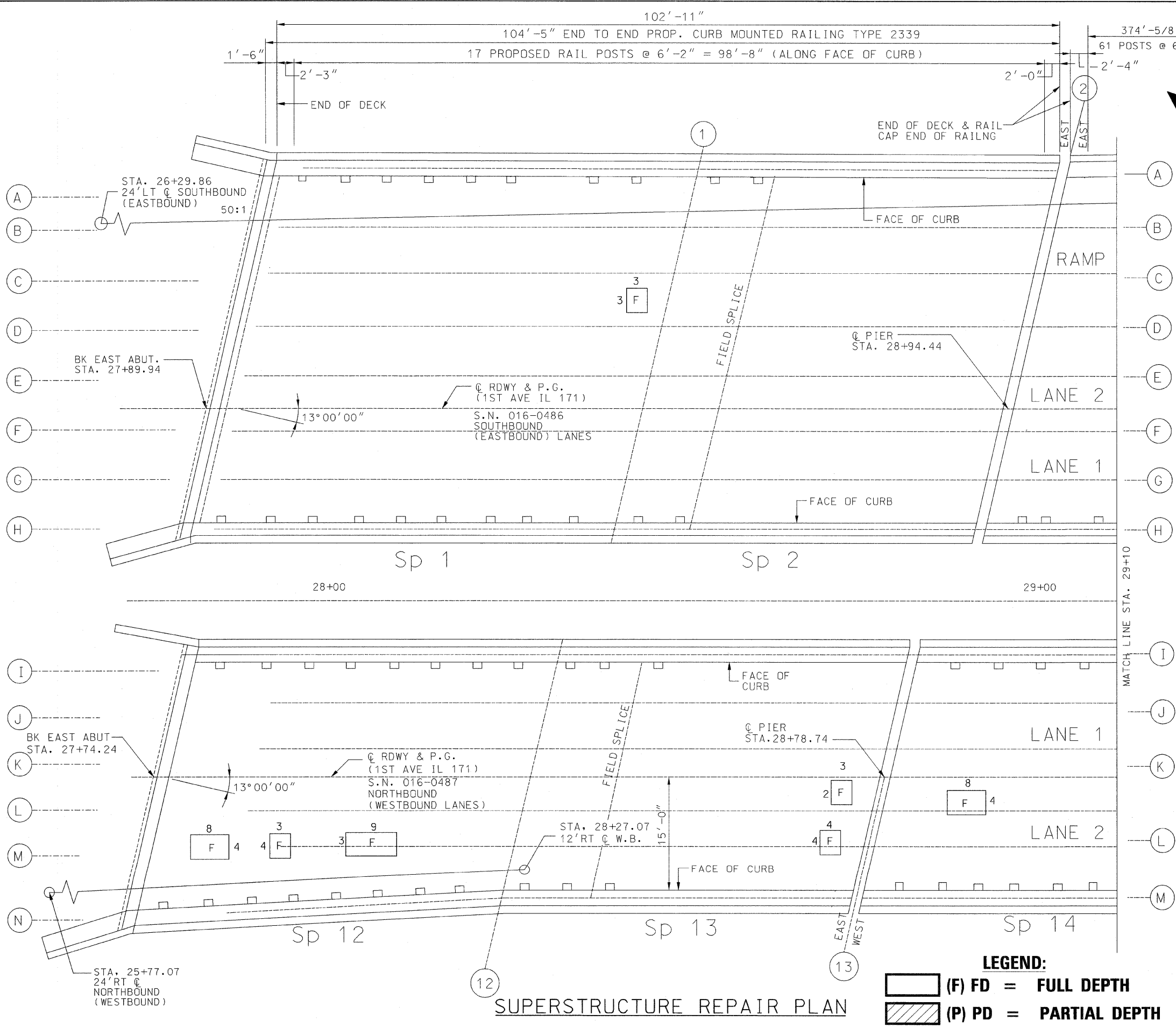
DECK CONCRETE PATCHING
1ST AVE. (IL. RTE. 171) OVER
F.A.I. I-55

F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
COOK COUNTY STATION 41+24.08
S.N. 016-0486 & S.N. 016-0487

SCALE: NONE DATE: DECEMBER 8, 2008
DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

REVISIONS	
NAME	DATE

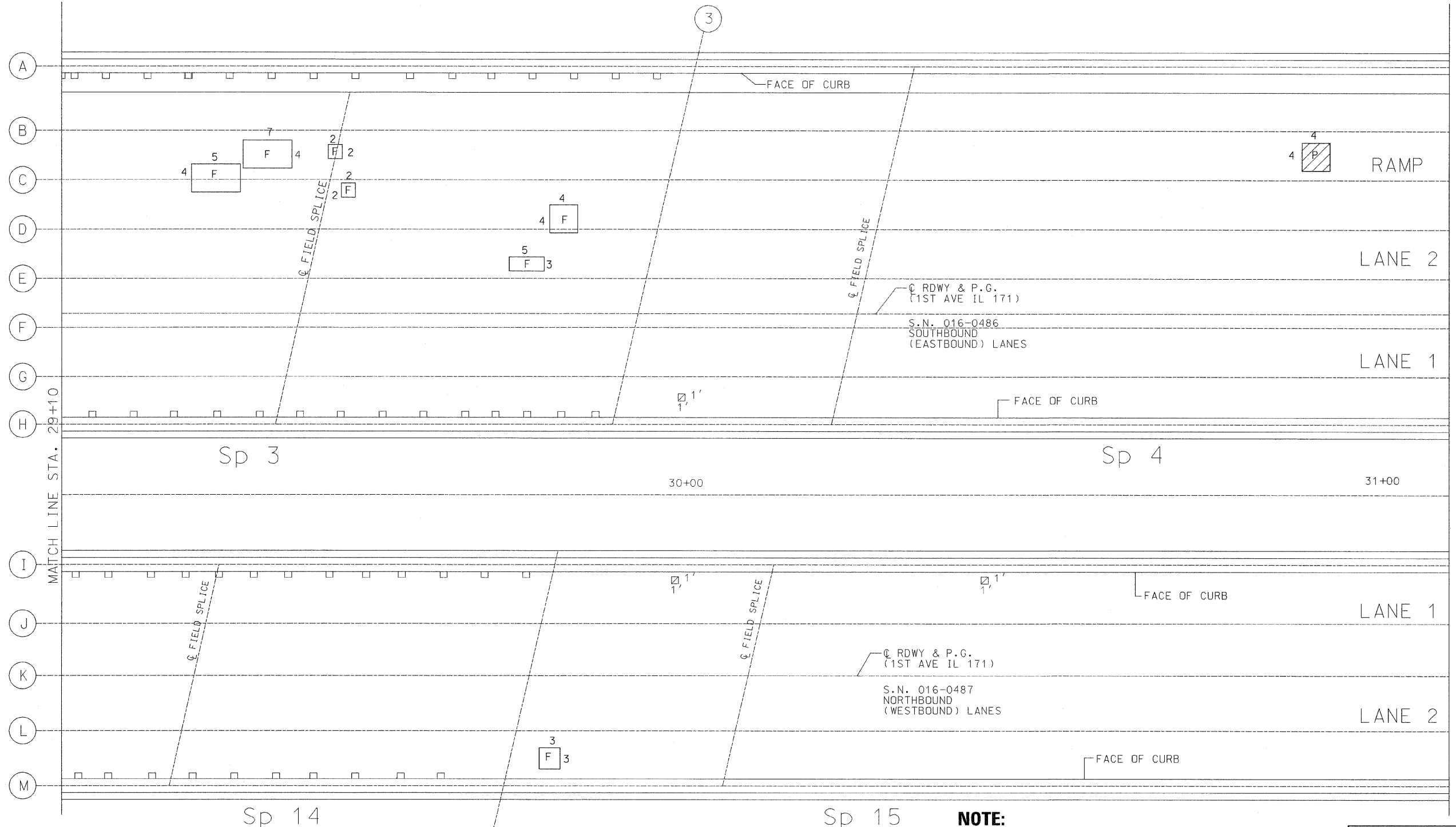
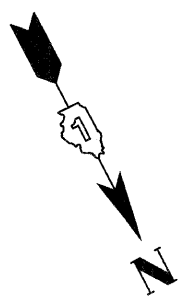


LEGEND:
 (F) FD = FULL DEPTH
 (P) PD = PARTIAL DEPTH

11/15/08 2:45:34 PM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94



S.N. 016-0486

S.N. 016-0487

SUPERSTRUCTURE REPAIR PLAN

NOTE:
 SPANS 4 & 15 PARTIAL DEPTH PATCHING ARE ON THIS PLAN AND LISTED IN THE TABLES ON SHT. NO. 15. FOR REMAINDER OF AREAS AT SPANS 4 & 15 AND SPANS 5 & 16, NO PATCHING IS SHOWN IN THE TABLES AND ARE OMITTED. TABLES SHOWING THE PATCHES WERE RECEIVED FROM I.D.O.T. FIELD MAINTENANCE ENGINEER.

LEGEND:
 [] (F) FD = FULL DEPTH
 [] (P) PD = PARTIAL DEPTH

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DECK CONCRETE PATCHING
 1ST AVE. (IL. RTE. 171) OVER
 F.A.I. I-55

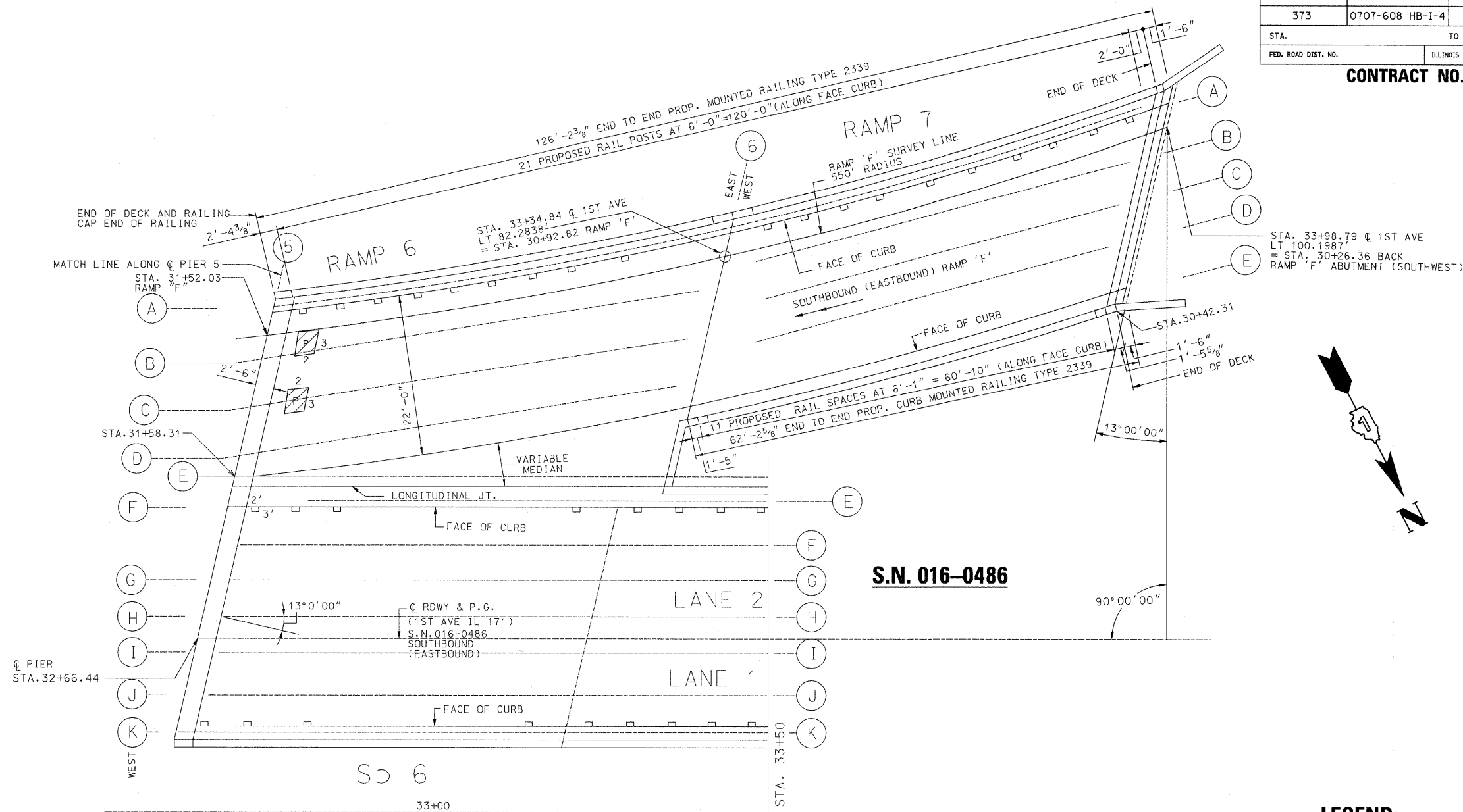
F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 41+24.08
 S.N. 016-0486 & S.N. 016-0487

SCALE: NONE DATE: DECEMBER 8, 2008
 DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.

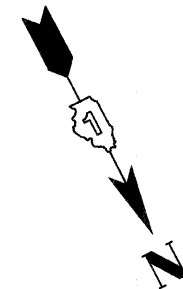
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	17
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60C94

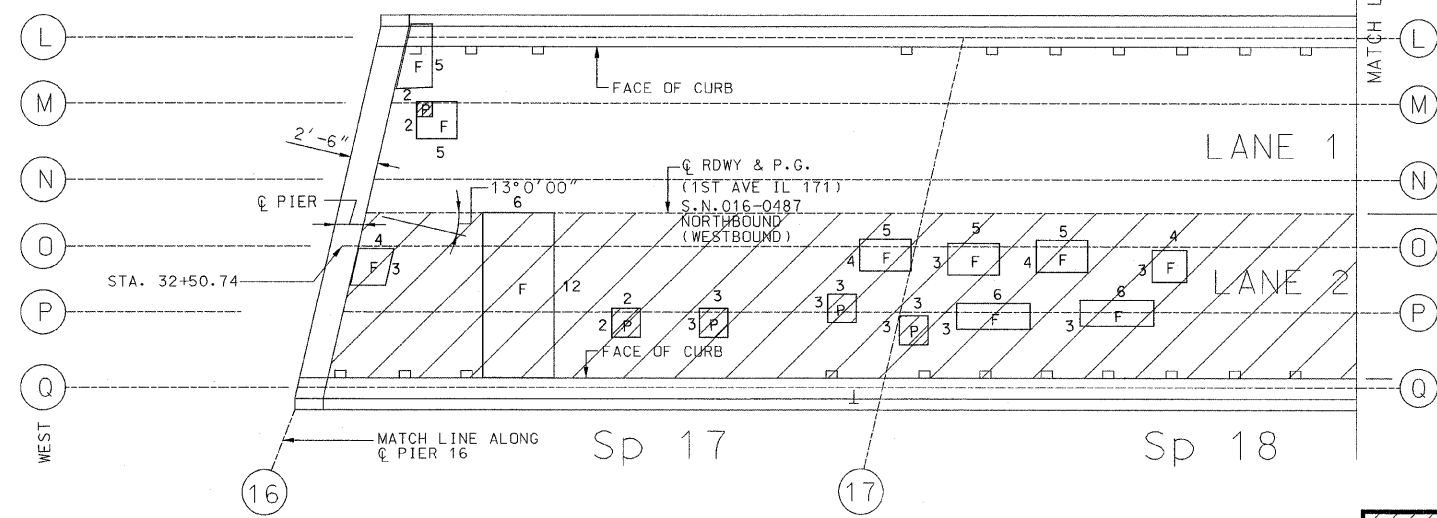


STA. 33+98.79 @ 1ST AVE
LT 100.1987
= STA. 30+26.36 BACK
RAMP 'F' ABUTMENT (SOUTHWEST)



S.N. 016-0486

LEGEND:
 (F) FD = FULL DEPTH
 (P) PD = PARTIAL DEPTH



S.N. 016-0487

AT LANE 2-SPAN 17 & SPAN 18
 HYDRO-SCARIFICATION 2 1/2"
 (12'x115'=1,380 SF=156 SY)
 PERFORM FULL DEPTH PATCHING
 PLACE BRIDGE DECK LATEX CONCRETE
 OVERLAY (2 1/2")

PARTIAL DEPTH = 31 S.F.
 DECK SLAB PARTIAL DEPTH REPAIR
 PATCHES ARE SHOWN FOR INFORMATION
 ONLY FOR LANE 2 - SPANS 17 & 18

SUPERSTRUCTURE REPAIR PLAN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DECK CONCRETE PATCHING
 1ST AVE. (IL. RTE. 171) OVER
 F.A.I. I-55
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 41+24.08
 S.N. 016-0486 & S.N. 016-0487

SCALE: NONE
 DATE: DECEMBER 8, 2008

DRAWN BY: D.L./F.M.
 CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94

S.N. 016-0486

S.N. 016-0487

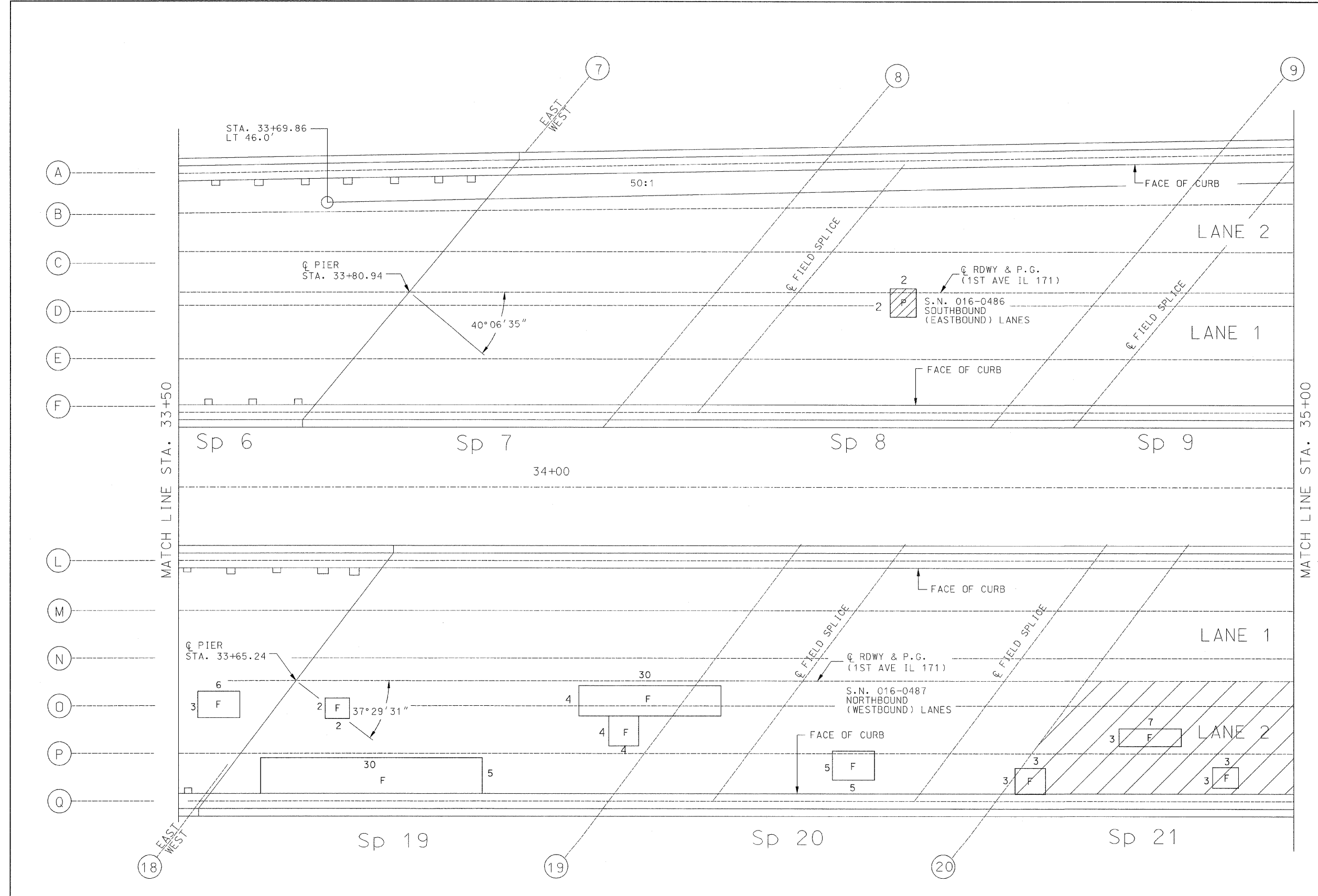
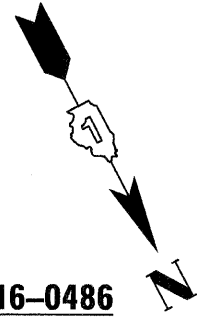
ILLINOIS DEPARTMENT OF TRANSPORTATION

DECK CONCRETE PATCHING
1ST AVE. (IL. RTE. 171) OVER
F.A.I. I-55

F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
COOK COUNTY STATION 41+24.08
S.N. 016-0486 & S.N. 016-0487

SCALE: NONE DATE: DECEMBER 8, 2008
DRAWN BY: D.L./F.M.
CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS



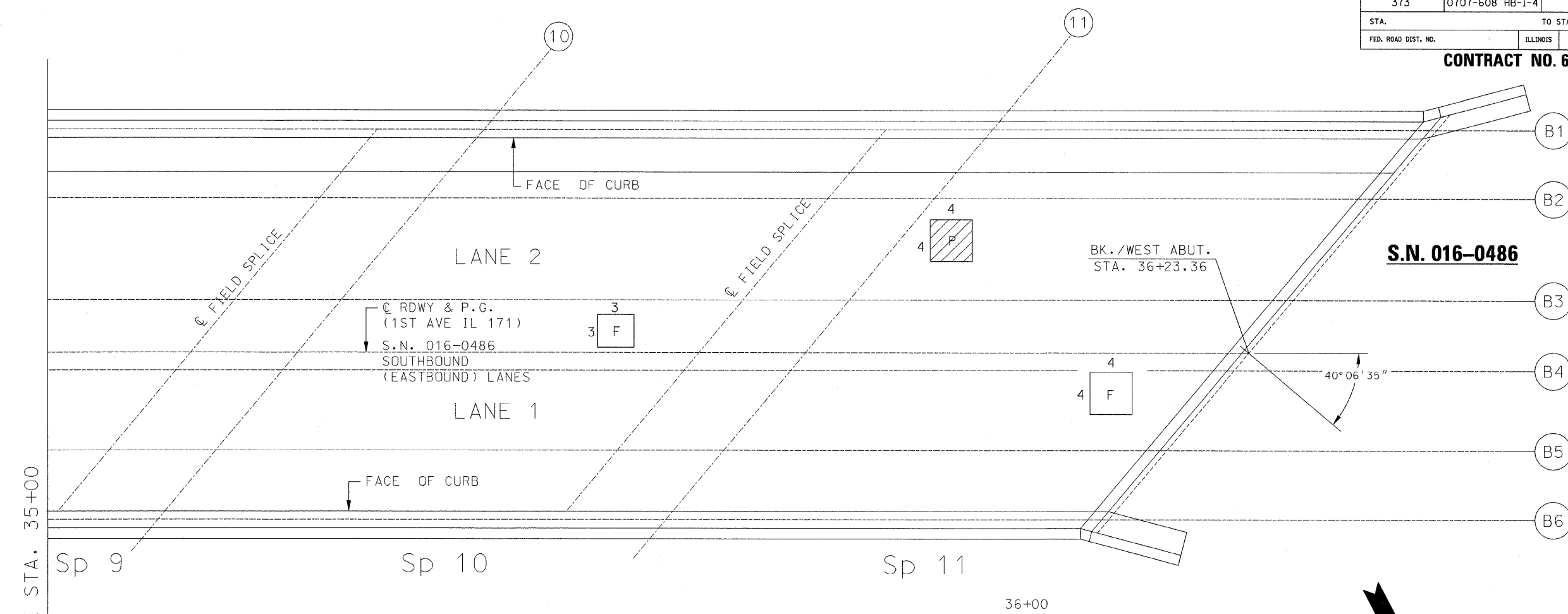
SUPERSTRUCTURE REPAIR PLAN

- LEGEND:**
- (F) FD = FULL DEPTH
 - (P) PD = PARTIAL DEPTH

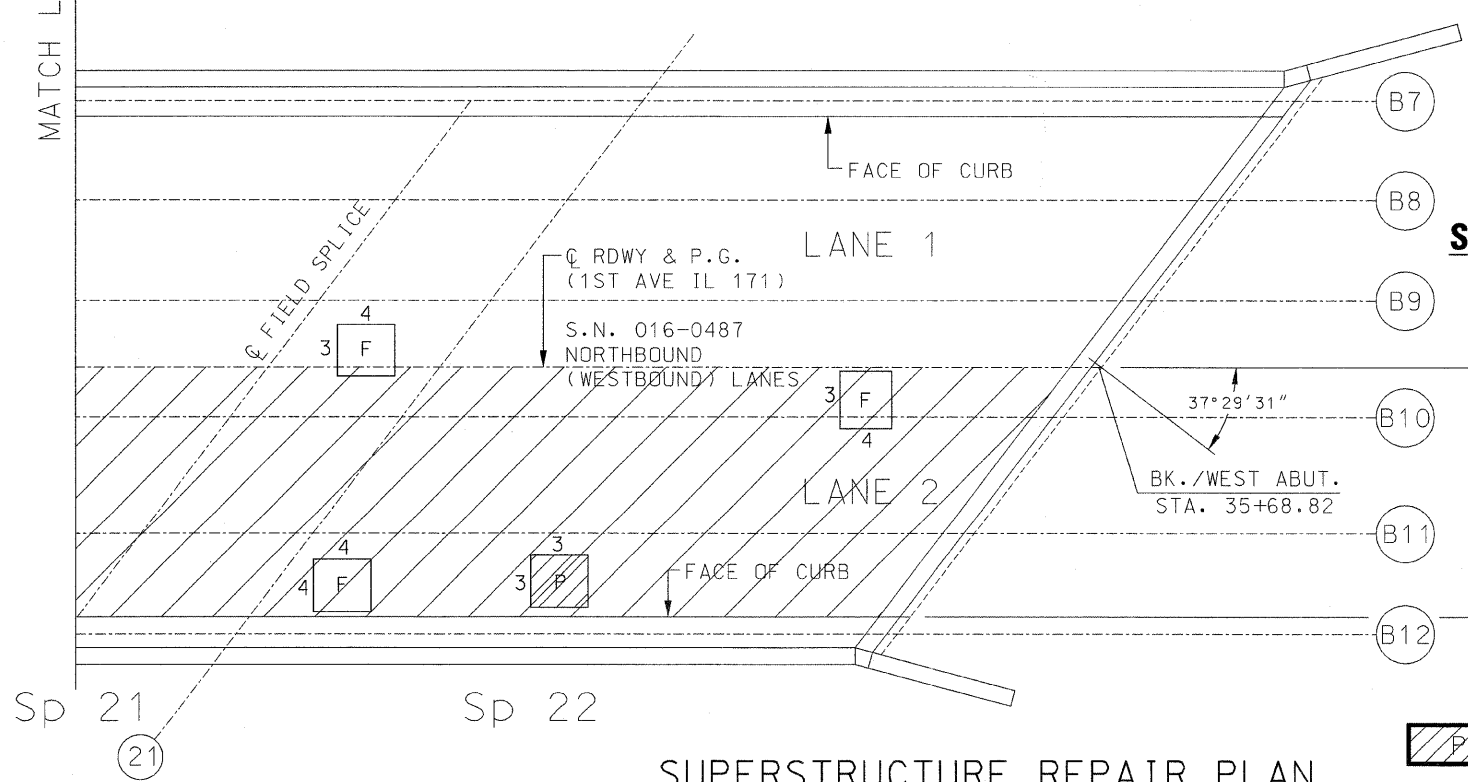
REVISIONS	
NAME	DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94



S.N. 016-0486



S.N. 016-0487

LEGEND:
 [Box with 'F'] (F) FD = FULL DEPTH
 [Box with 'P'] (P) PD = PARTIAL DEPTH

AT LANE 2-SPAN 21 & SPAN 22
 HYDRO-SCARIFICATION 2 1/2"
 (12' x 93.5' = 1,122 SF = 125 SY)
 PERFORM FULL DEPTH PATCHING
 PLACE BRIDGE DECK LATEX CONCRETE OVERLAY (2 1/2")

PARTIAL DEPTH = 9 S.F.
 DECK SLAB PARTIAL DEPTH REPAIR PATCHES ARE SHOWN FOR INFORMATION ONLY FOR LANE 2 - SPANS 21 & 22

SUPERSTRUCTURE REPAIR PLAN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DECK CONCRETE PATCHING
 1ST AVE. (IL. RTE. 171) OVER
 F.A.I. I-55

F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 41+24.08
 S.N. 016-0486 & S.N. 016-0487

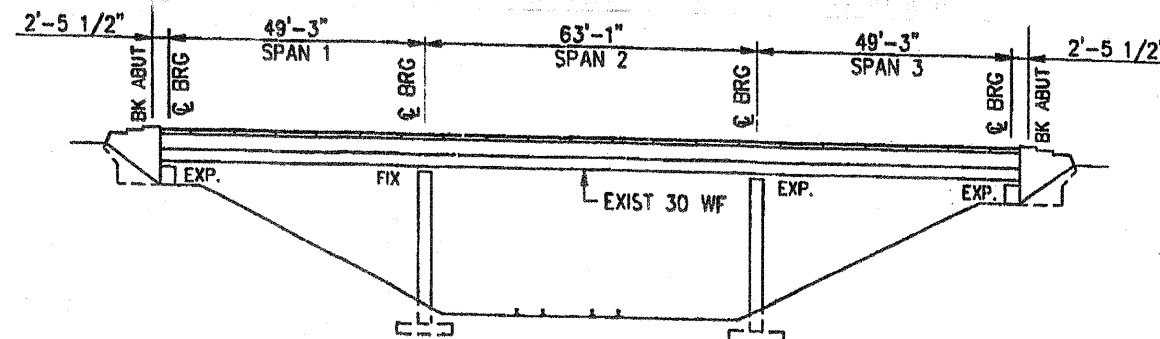
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 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

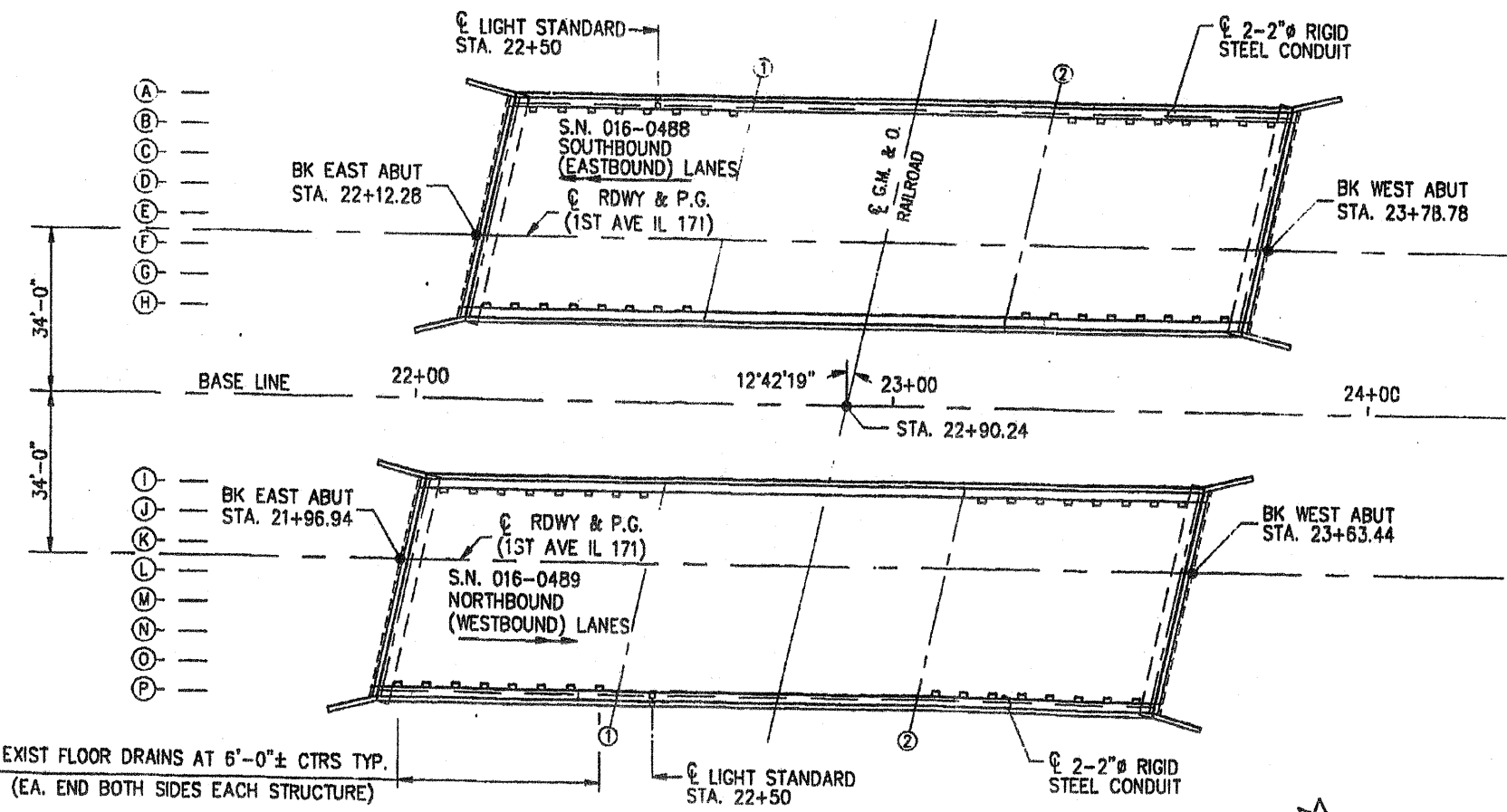
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

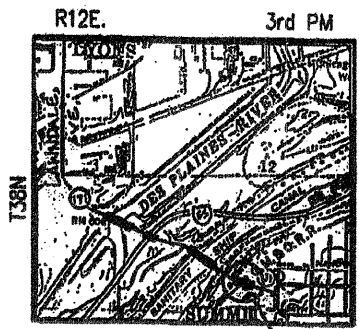
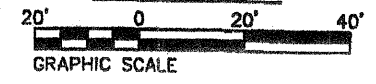
CONTRACT NO. 60C94



EXISTING ELEVATION



EXISTING PLAN



**PROPOSED RECONSTRUCTION
LOCATION SKETCH**

FOR INFORMATION ONLY

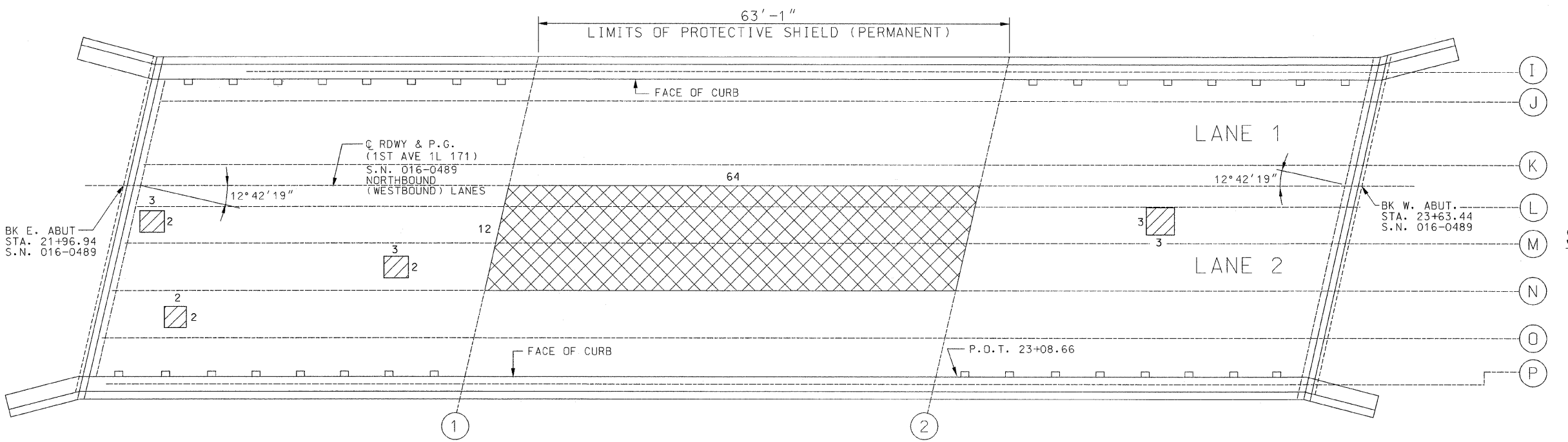
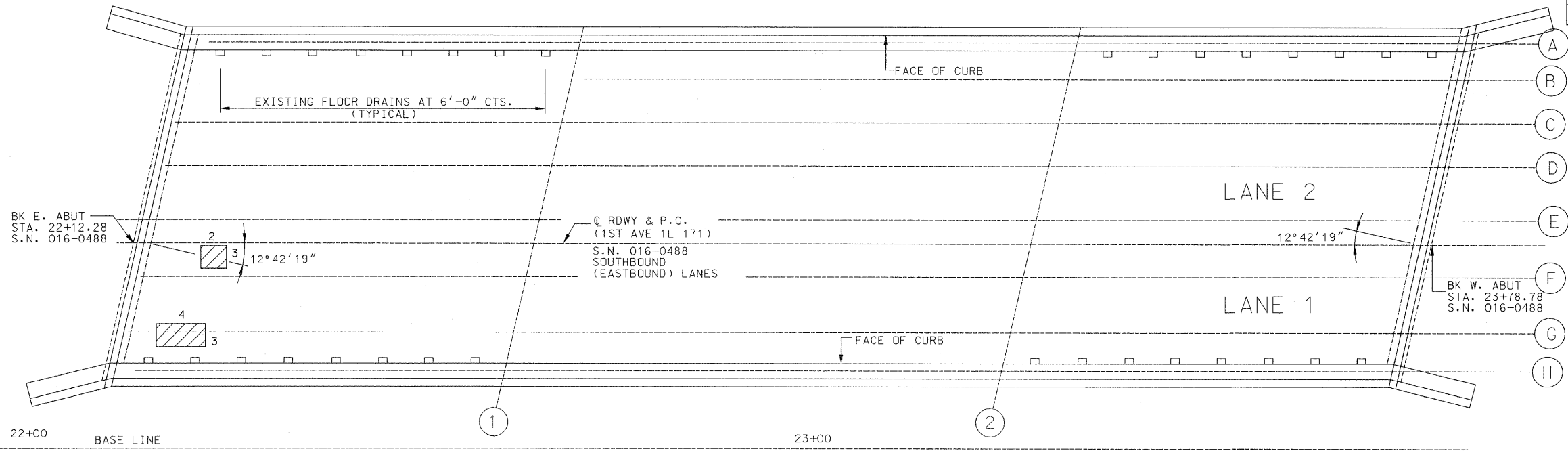
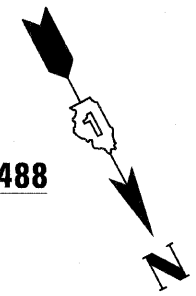
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN & ELEVATION
 1ST AVE. (IL. RTE. 171)
 OVER
 G.M. & O. RAILROAD
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 22+90.24
 S.N. 016-0488 & S.N. 016-0489
 SCALE: NONE DRAWN BY: D.L./F.M.
 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	21
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94

S.N. 016-0488



SUPERSTRUCTURE REPAIR PLAN

SHIELD RR SPAN ONLY

S.N. 016-0489

BILL OF MATERIAL

PAY ITEM	UNIT	QUANTITY
PROTECTIVE SHIELD (PERMANENT)	SQ. YD.	315

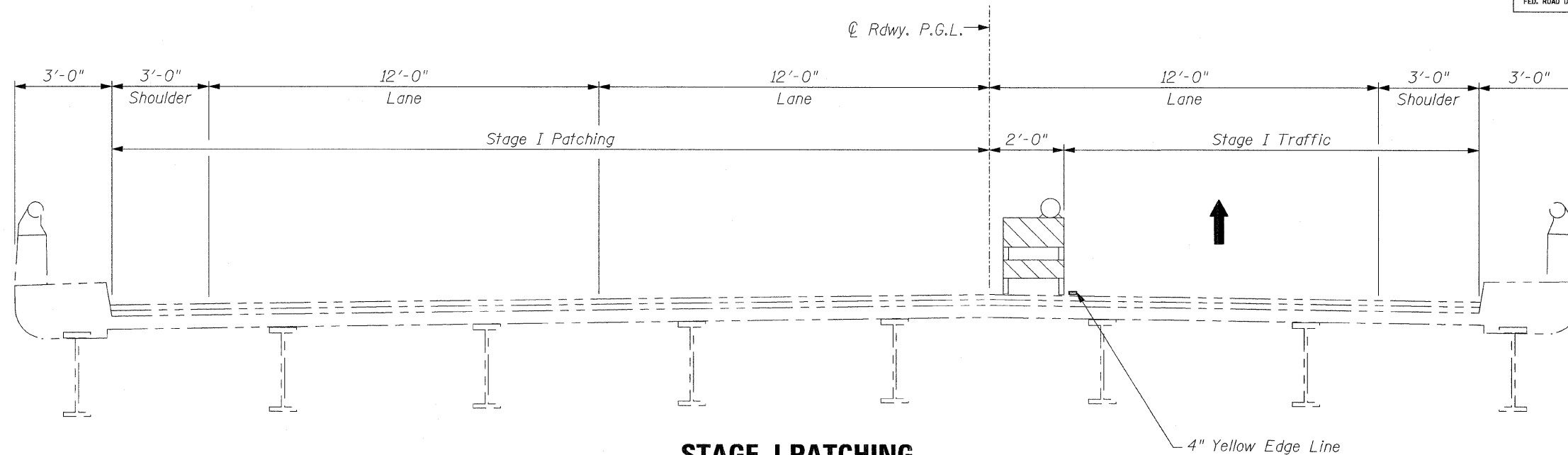
- LEGEND:**
- 2 1/2" HYDRO-SCARIFICATION W/ 1/2" BRIDGE DECK LATEX CONCRETE OVERLAY**
768 SF = 86 SY
 - PARTIAL DEPTH PATCHING**
43 SF = 5 SY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DECK CONCRETE PATCHING
 1ST AVE. (IL. RTE. 171)
 OVER
 G.M. & O. RAILROAD
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 22+90.24
 S.N. 016-0488 & S.N. 016-0489
 SCALE: NONE DRAWN BY: D.L./F.M.
 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

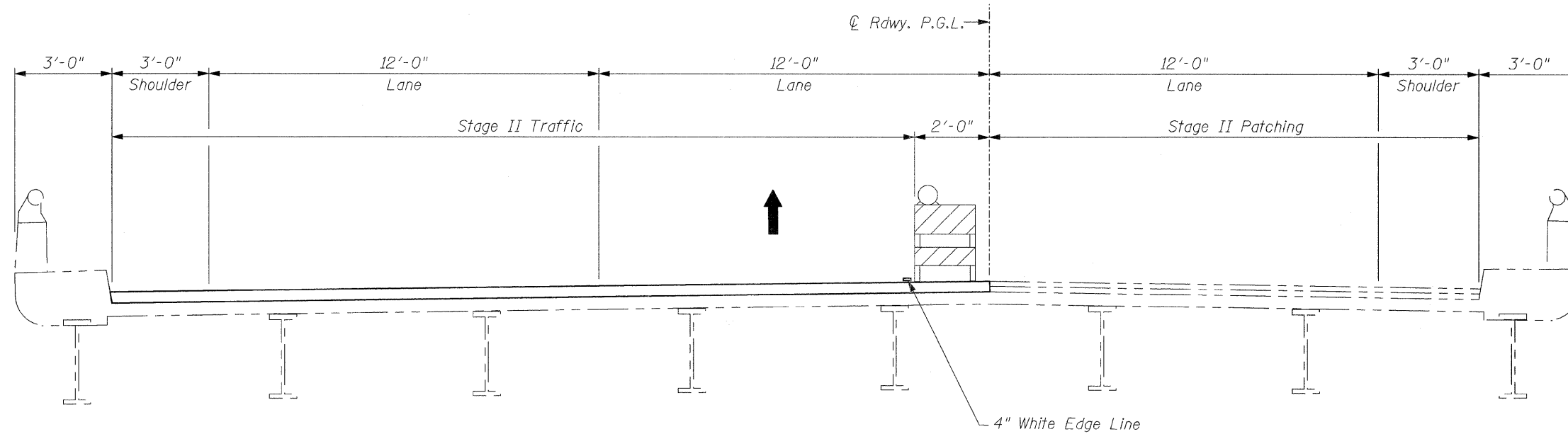
CONTRACT NO. 60C94



STAGE I PATCHING

EXISTING DECK CROSS SECTION

(Looking Upstation - Eastbound)



STAGE II PATCHING

EXISTING DECK CROSS SECTION

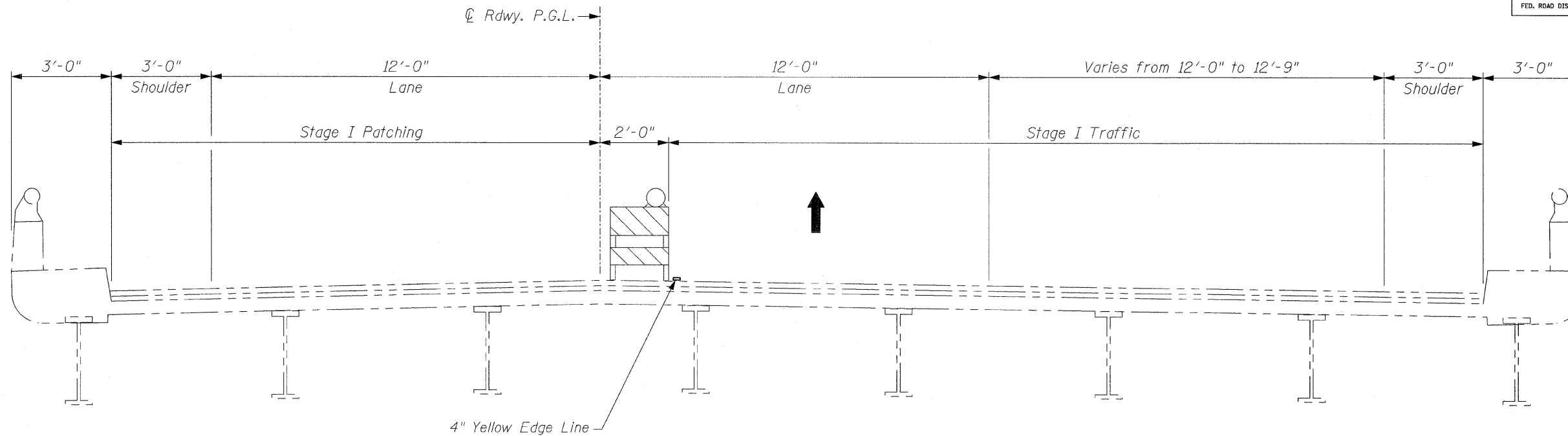
(Looking Upstation - Eastbound)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DECK CROSS SECTION
 1ST AVE. (IL. RTE. 171)
 OVER
 G.M. & O. RAILROAD
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 22+90.24
 STRUCTURE NO. 016-0488
 SCALE: NONE DRAWN BY: D.L./F.M.
 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	23
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

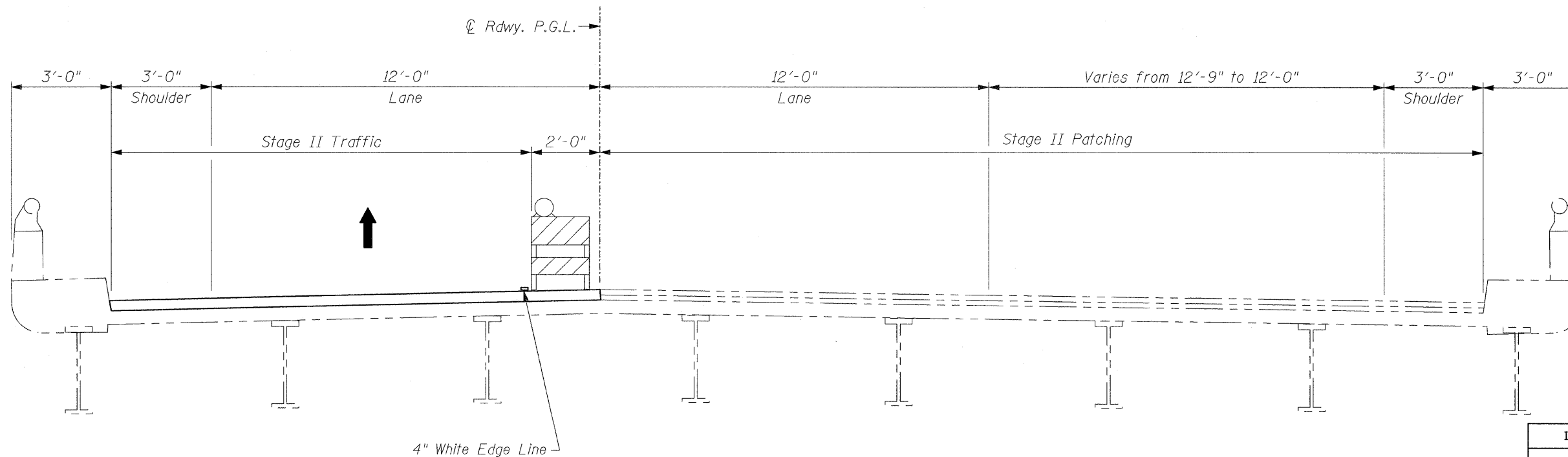
CONTRACT NO. 60C94



STAGE I PATCHING

EXISTING DECK CROSS SECTION

(Looking Upstation - Westbound)



STAGE II PATCHING

EXISTING DECK CROSS SECTION

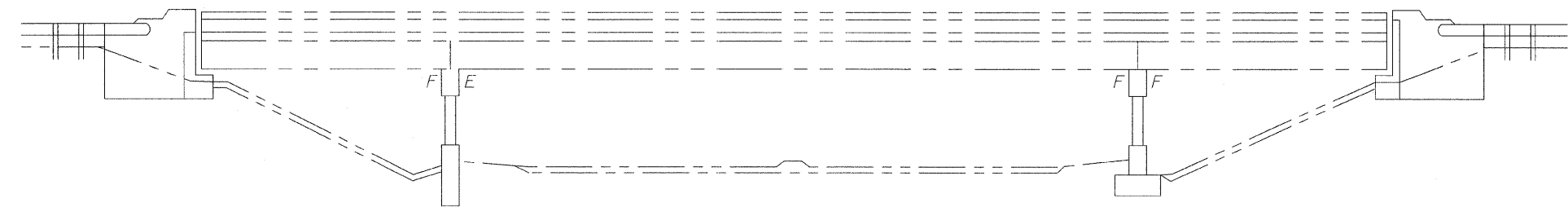
(Looking Upstation - Westbound)

REVISIONS	
NAME	DATE

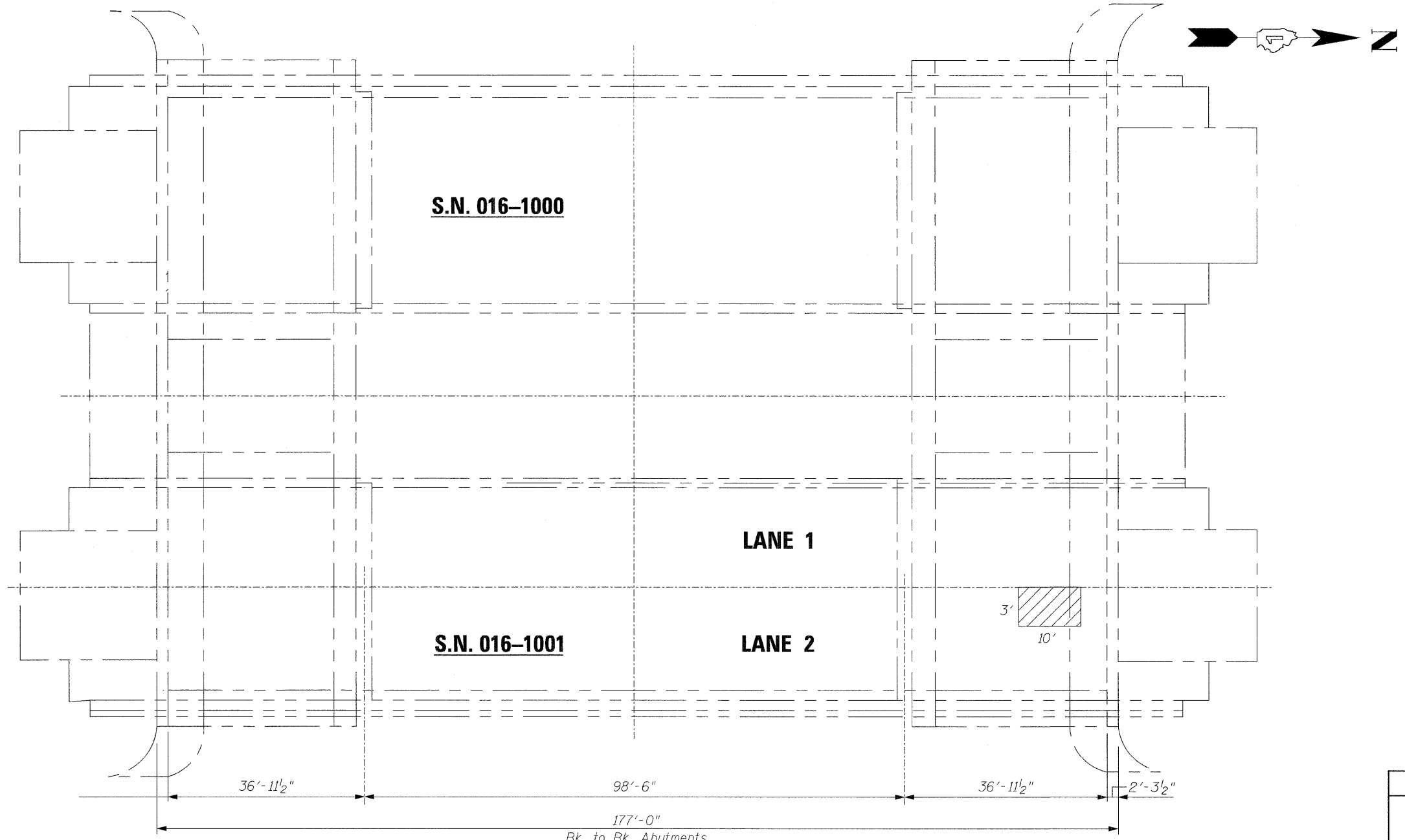
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DECK CROSS SECTION
 1ST AVE. (IL. RTE. 171)
 OVER
 G.M. & O. RAILROAD
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 22+90.24
 STRUCTURE NO. 016-0489
 SCALE: NONE DRAWN BY: D.L./F.M.
 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	24
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60C94



ELEVATION
(Looking West)



PLAN

LEGEND:
 (P) PD = PARTIAL DEPTH
 30 SF = 3.3 SY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DECK CONCRETE PATCHING

ILLINOIS RTE. 171
OVER 47TH STREET

F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
COOK COUNTY STATION 104+82.77
STRUCTURE NO. 016-1001

SCALE: NONE
DATE: DECEMBER 8, 2008

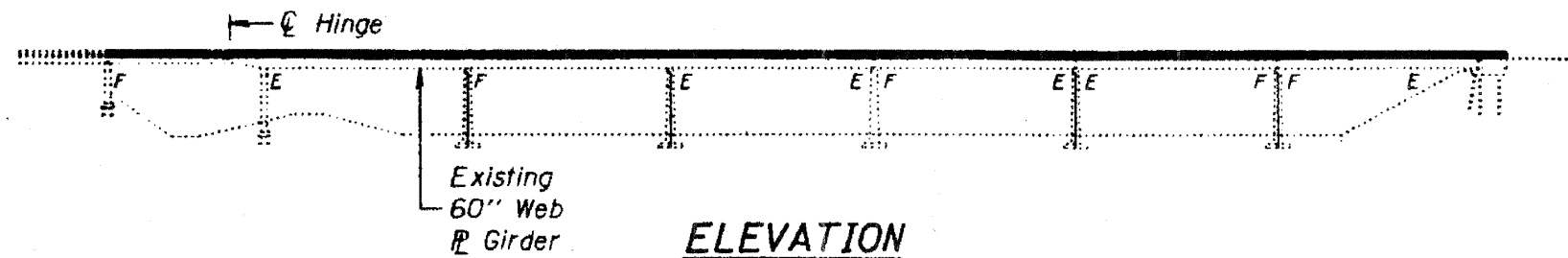
DRAWN BY: D.L./F.M.
CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

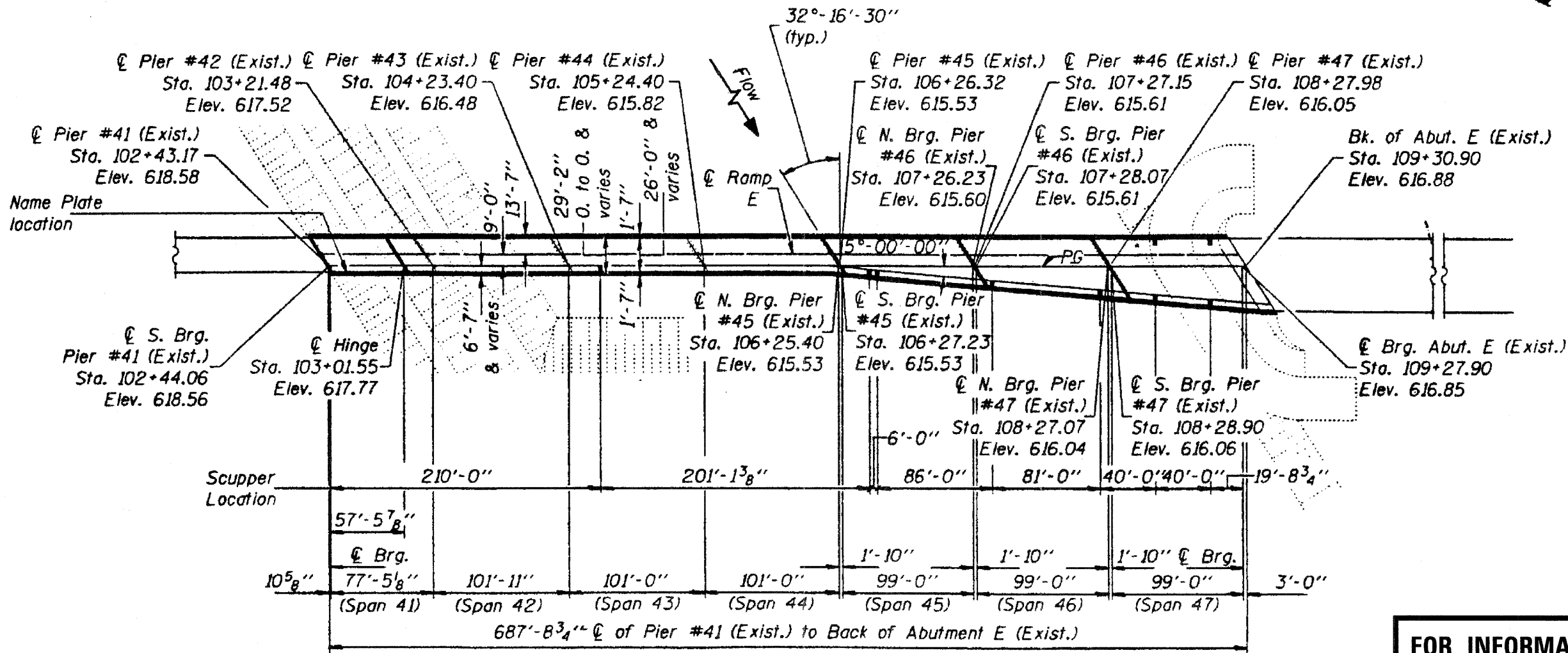
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	25
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94

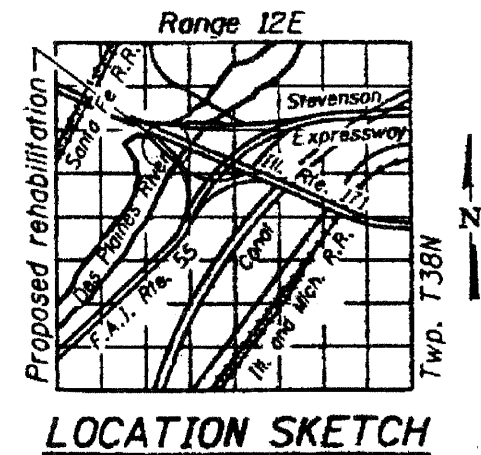


ELEVATION



PLAN

FOR INFORMATION ONLY



LOCATION SKETCH

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN & ELEVATION
 IL. RTE. 171
 OVER
 DES PLAINES RIVER
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 106+26.32
 STRUCTURE NO. 016-1026

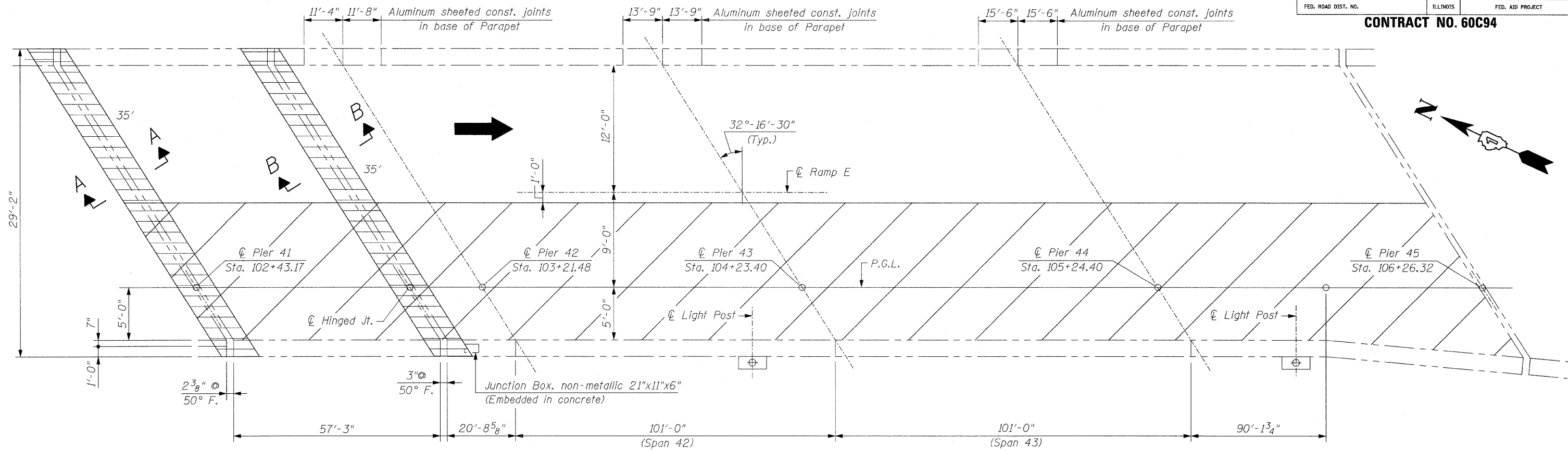
SCALE: NONE DRAWN BY: D.L./F.M.
 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

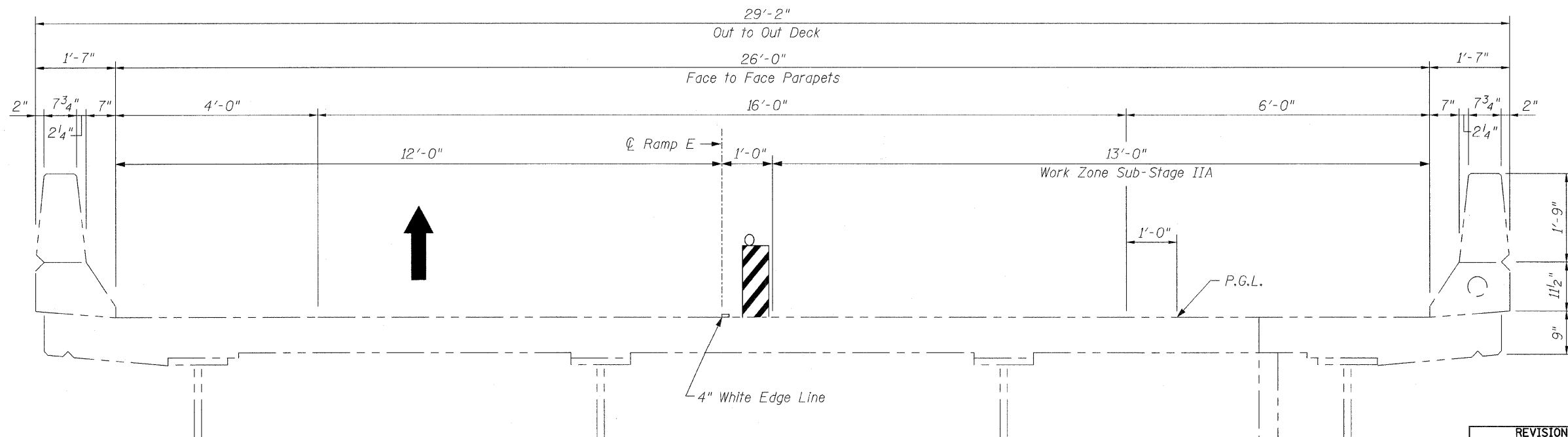
REVISIONS	
NAME	DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	26
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94



PLAN



EXISTING DECK CROSS SECTION

(Looking South)

NOTE:
For Sub-Stage IIB, reverse Sub-Stage IIA and use 4" Yellow Edge Line instead of 4" White Edge Line.

REVISIONS	
NAME	DATE

LEGEND:

- Remove & Replace Expansion Joints = 75 Lin. Ft.
- Work Zone Sub-Stage IIA
- Traffic Flow

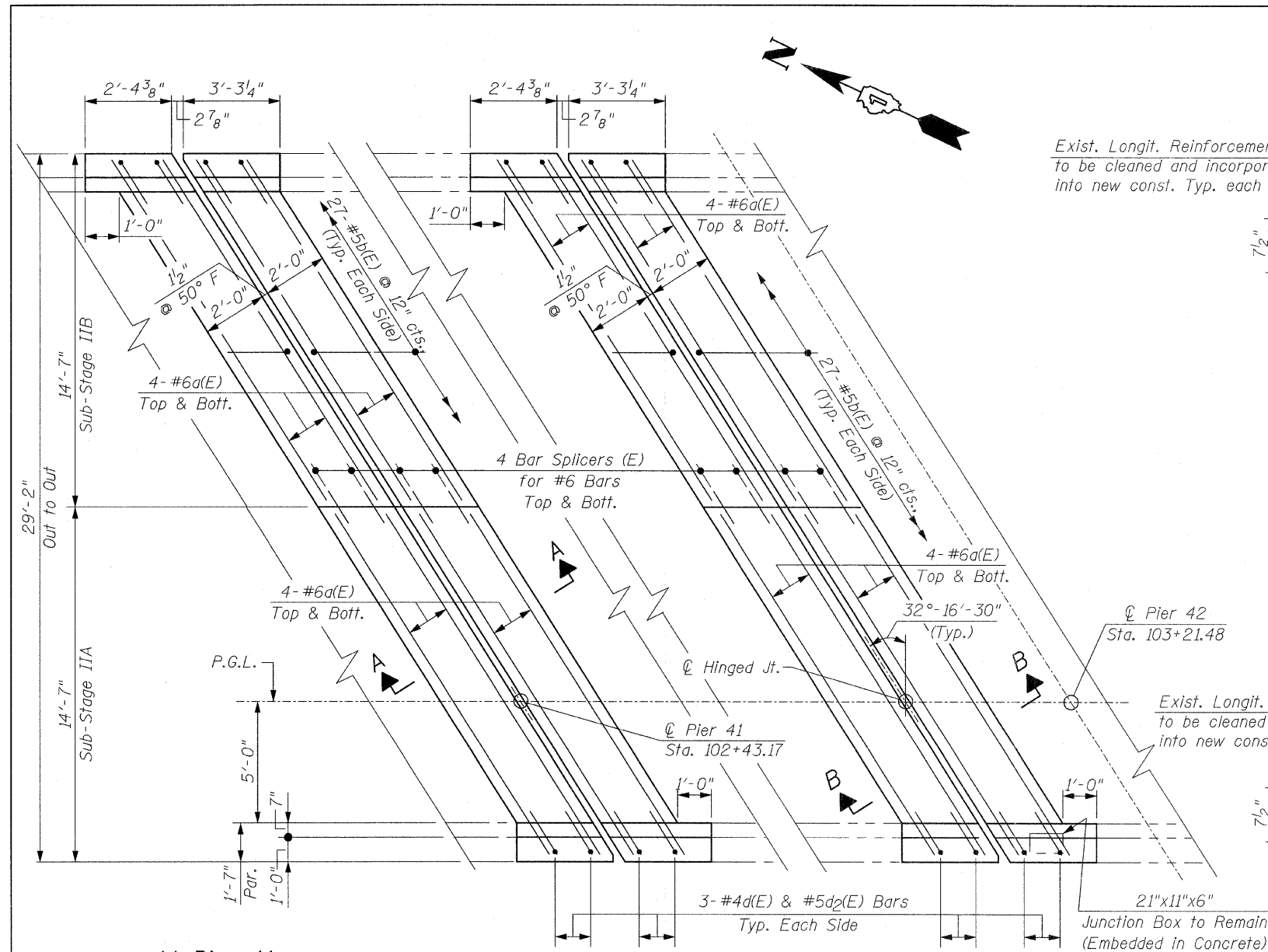
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAN & EXISTING DECK CROSS SECTION
 IL. RTE. 171
 OVER
 DES PLAINES RIVER
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 106+26.32
 STRUCTURE NO. 016-1026
 SCALE: NONE DRAWN BY: D.L./F.M.
 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	27
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94

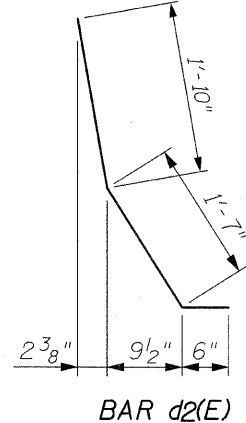
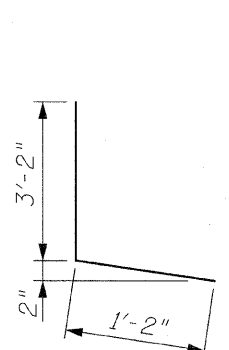
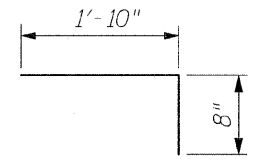
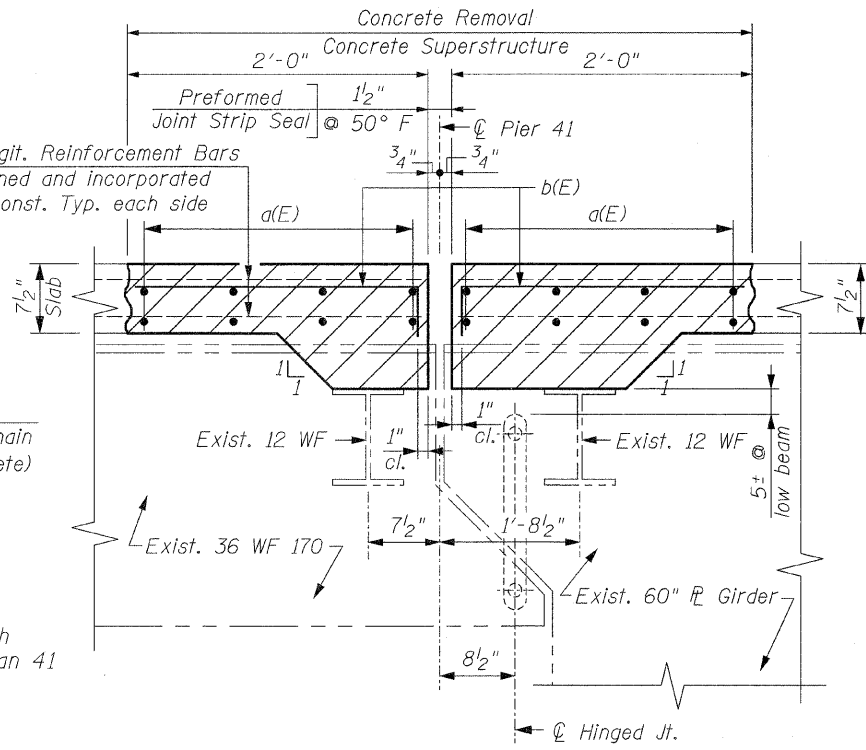
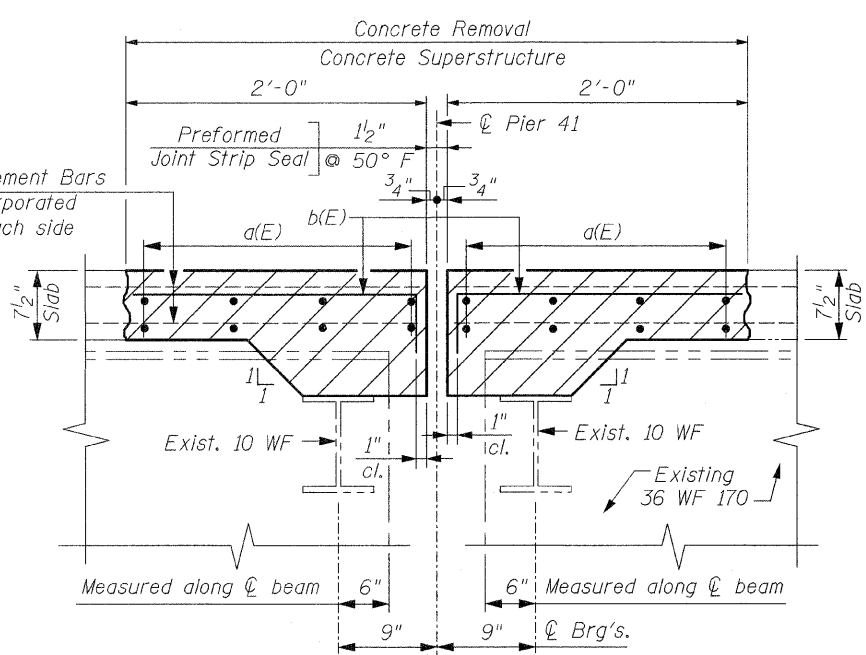
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	64	#6	17'-0"	—
b(E)	108	#5	2'-6"	└
d(E)	24	#4	4'-4"	L
d ₂ (E)	24	#5	3'-11"	L
Reinforcement Bars, Epoxy Coated			Pound	2,080
Concrete Removal			Cu. Yd.	11.0
Concrete Superstructure			Cu. Yd.	11.0
Bar Splicers			Each	32

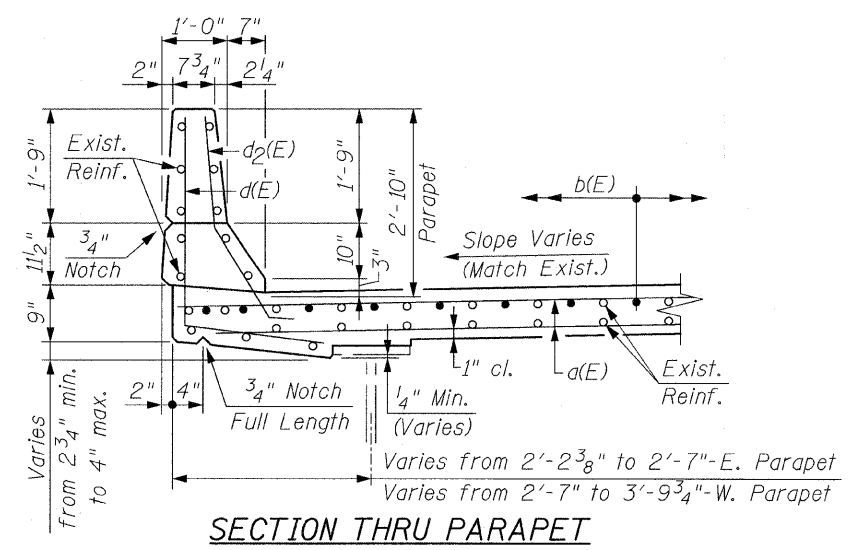
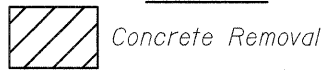


At Pier 41
Remove Neoprene Exp. Joint (2") & Replace with Preformed Strip Seal Joint at Pier 41. Reconstruct 1/2 width at a time. Reconstruct 2 ft. of Deck on both sides of the Joint.

At Hinged Joint
Remove Neoprene Exp. Joint (2 1/2") & Replace with Preformed Strip Seal Joint at Hinged Joint in Span 41



LEGEND:



The Contractor must use extreme caution during concrete removal and must not nick, cut or damage in any way, any of the steel beams. The existing Reinforcement Bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any Reinforcement Bars that are damaged during concrete removal shall be replaced with an approved Bar Splicer or Anchorage System. Cost is included with Concrete Removal.

Reinforcement Bars shall conform to the requirements of ASTM A-706, Gr. 60. See Special Provisions. Reinforcement Bars designated (E) shall be Epoxy Coated. Cost for removal of existing Neoprene Exp. Joints is included in the cost of Concrete Removal.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT
IL. RTE. 171
OVER
DES PLAINES RIVER
F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
COOK COUNTY STATION 106+26.32
STRUCTURE NO. 016-1026

SCALE: NONE
DATE: DECEMBER 8, 2008
DRAWN BY: D.L./F.M.
CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	28
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

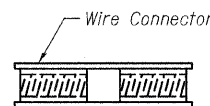
BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8

The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



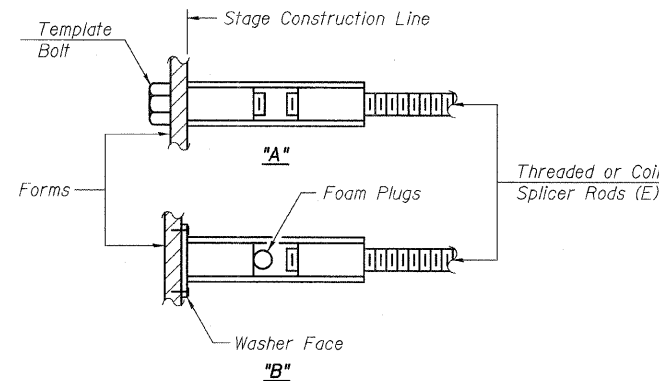
**** ONE PIECE**



WELDED SECTIONS

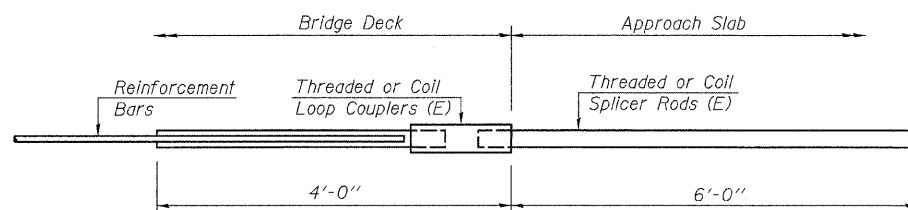
BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



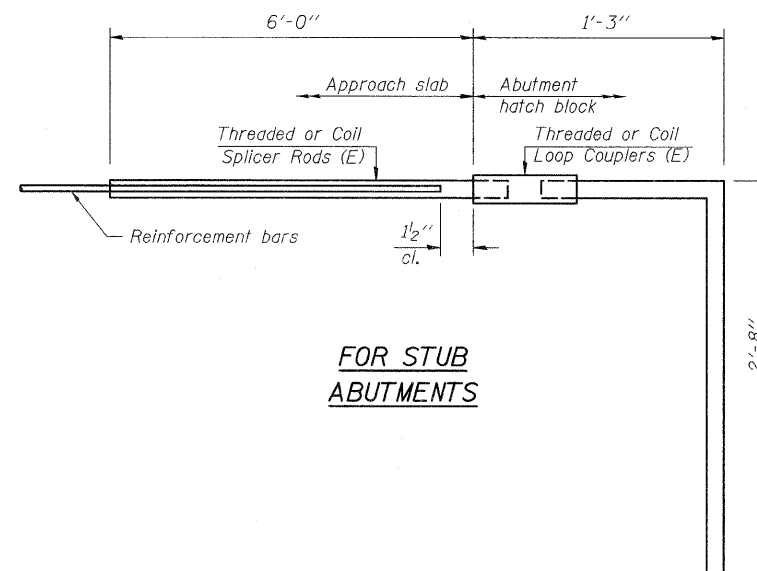
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



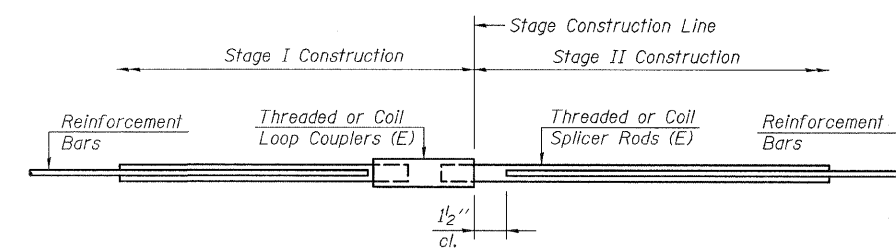
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = -



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = -



STANDARD

Bar Size	No. Assemblies Required	Location
#6	16	@ Pier 41
#6	16	At Hinged Jt. in Span 41
Total	32	

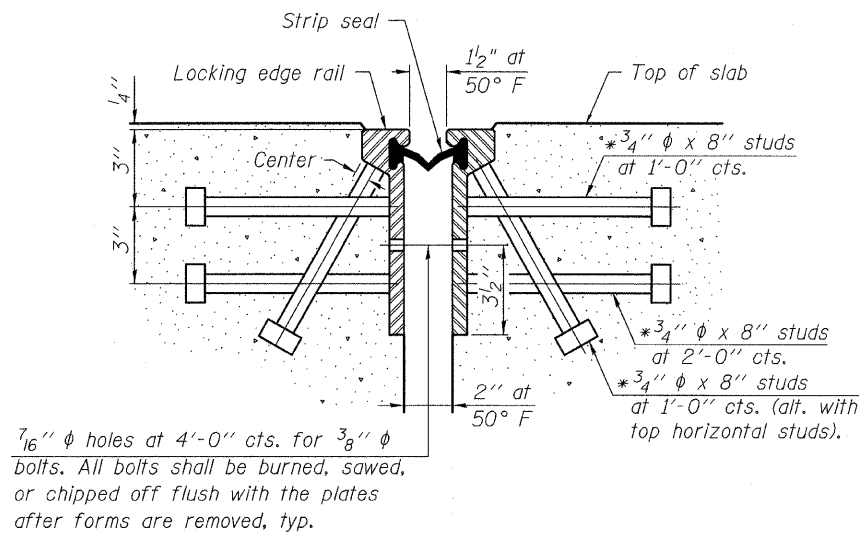
ILLINOIS DEPARTMENT OF TRANSPORTATION
 BAR SPLICER ASSEMBLY DETAILS
 IL. RTE. 171
 OVER
 DES PLAINES RIVER
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 106+26.32
 STRUCTURE NO. 016-1026
 SCALE: DATE: DECEMBER 8, 2008
 DRAWN BY: D.L./F.M.
 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

REVISIONS	
NAME	DATE

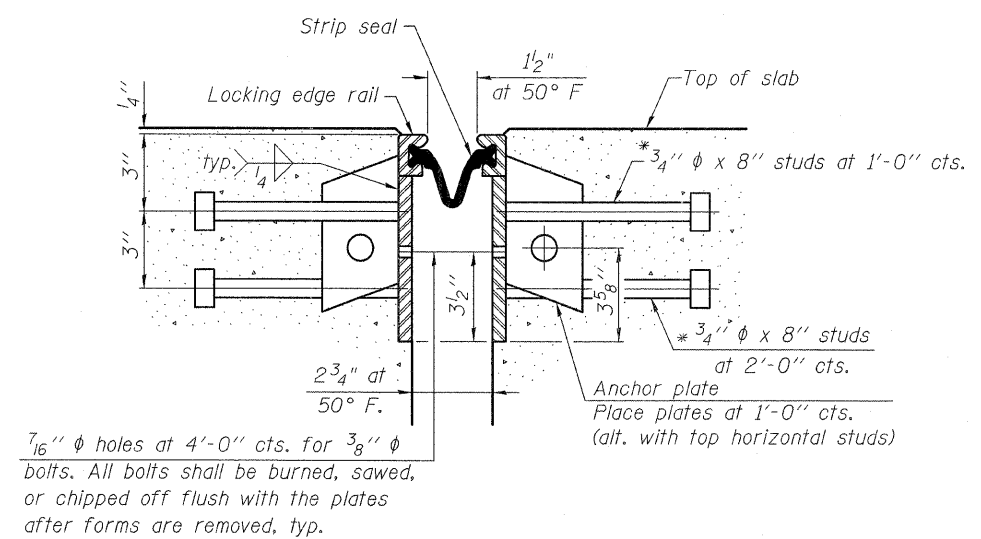
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



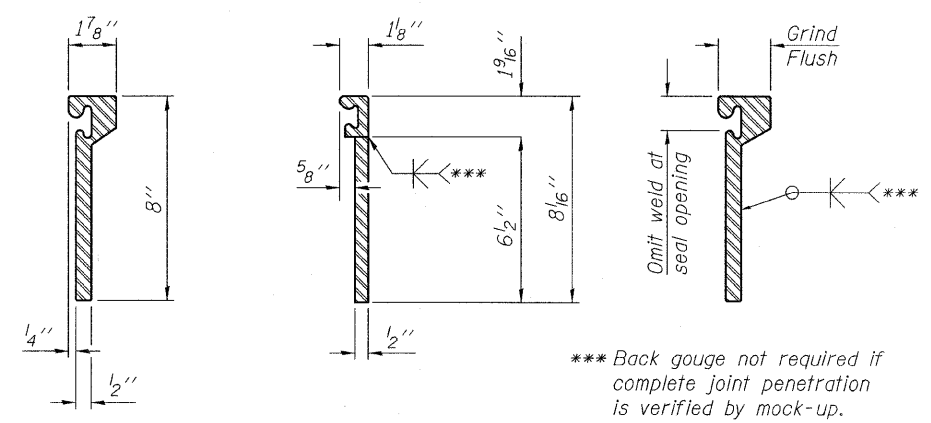
SECTION THRU ROLLED RAIL JOINT



SECTION THRU WELDED RAIL JOINT

NOTES:

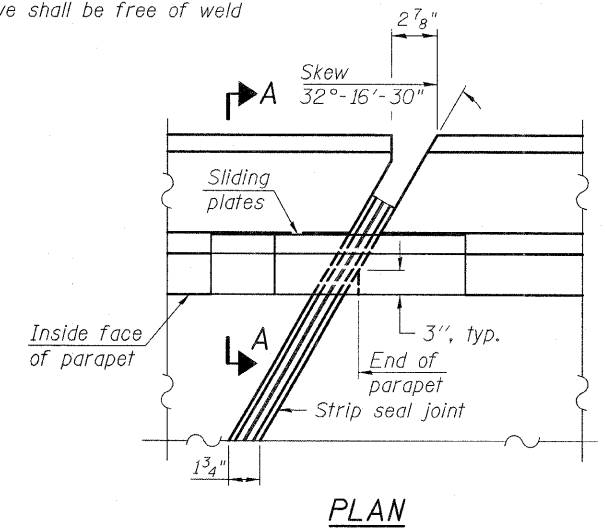
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches. The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints. The manufacturer's recommended installation methods shall be followed. The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.



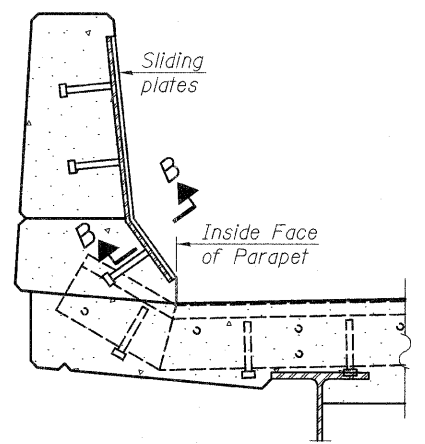
ROLLED (EXTRUDED) RAIL WELDED RAIL

LOCKING EDGE RAIL SPLICE
The inside of the locking edge rail groove shall be free of weld residue.

LOCKING EDGE RAILS

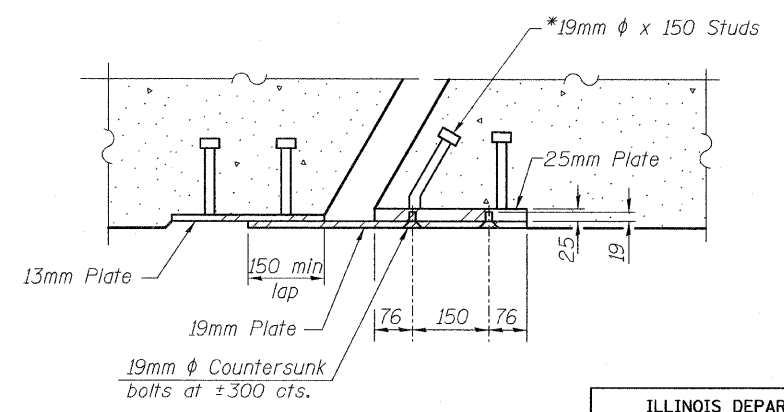


PLAN



SECTION A-A

POINT BLOCK DETAILS (for skews > 30°)



SECTION B-B

REVISIONS	
NAME	DATE

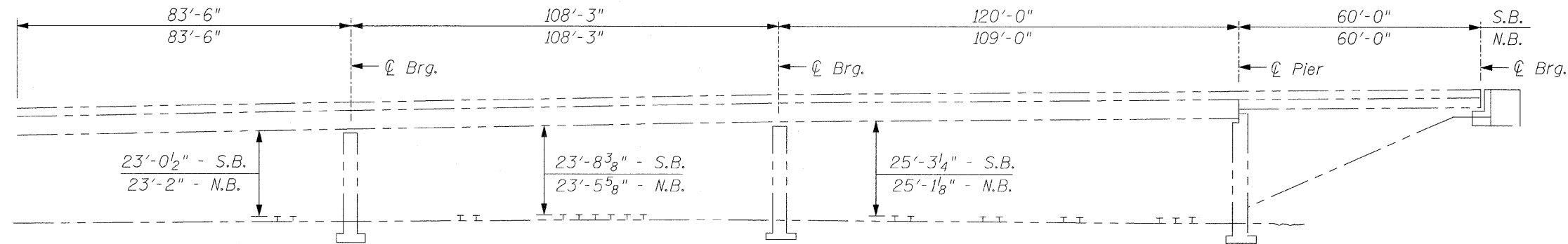
BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	75

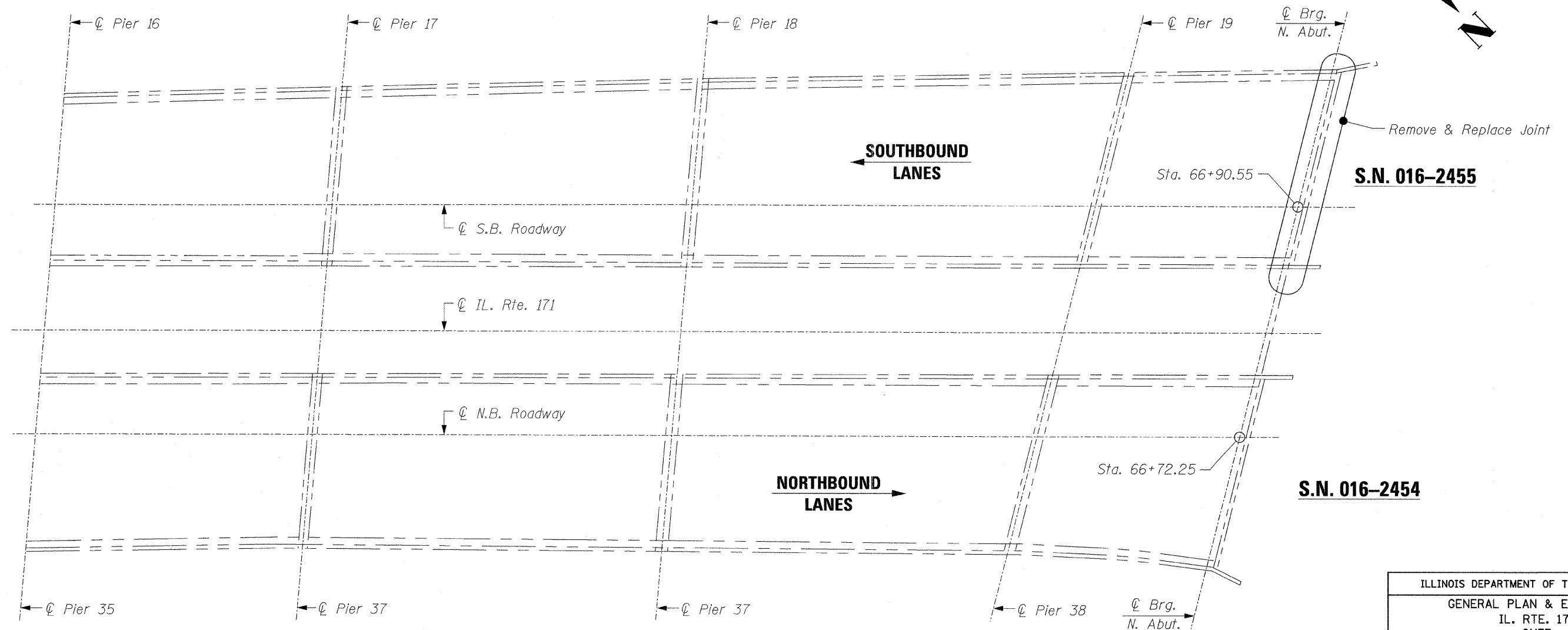
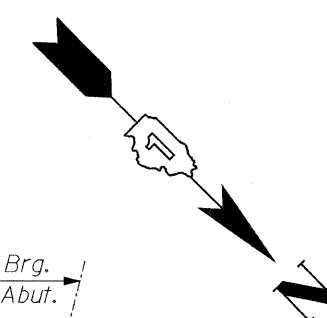
ILLINOIS DEPARTMENT OF TRANSPORTATION
 PREFORMED STRIP SEAL JOINT
 IL. RTE. 171
 OVER
 DES PLAINES RIVER
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 106+26.32
 STRUCTURE NO. 016-1026
 SCALE: NONE DATE: DECEMBER 8, 2008
 DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	30
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94



ELEVATION
(Looking West)



PLAN

S.N. 016-2455

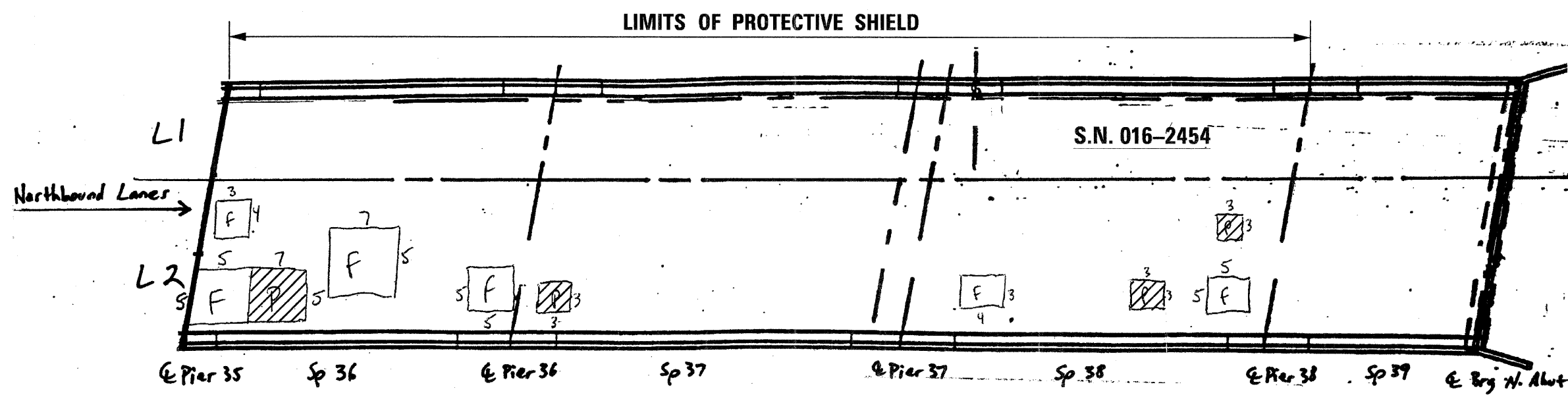
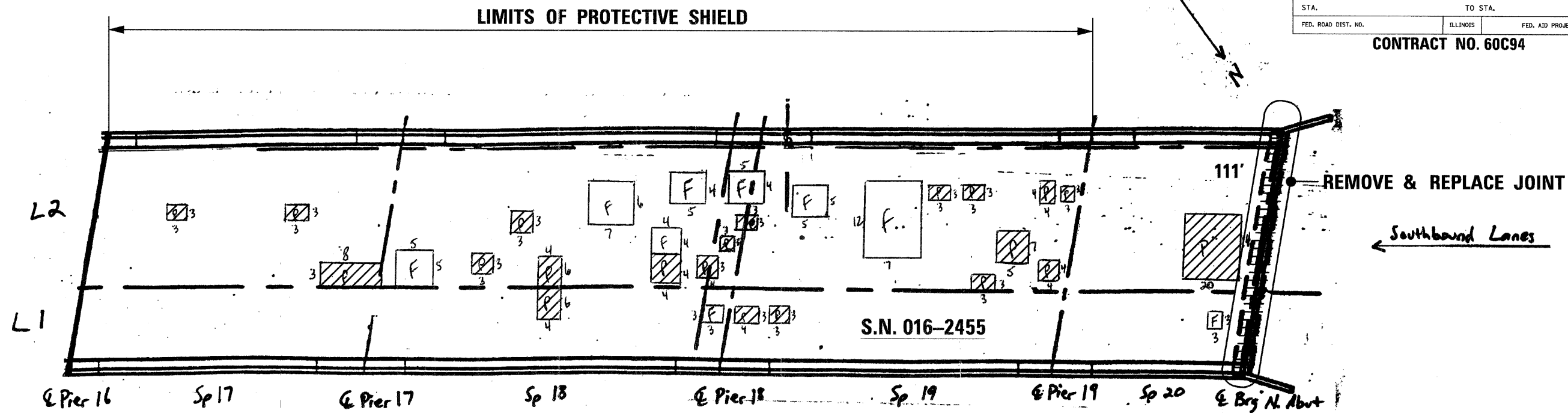
S.N. 016-2454

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL PLAN & ELEVATION
 IL. RTE. 171
 OVER
 A.T. & S.F. R.R.
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 65+10.55
 S.N. 016-2455 & S.N. 016-2454
 SCALE: NONE DRAWN BY: D.L./F.M.
 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94



LEGEND:

	(F) FD = FULL DEPTH
	(P) PD = PARTIAL DEPTH
	REMOVE & REPLACE JOINT = 111 LIN. FT.

S.N. 016-2455
IL. 171 SB/CW1 CSX RR

SPAN	LANE	LANE 1		LANE 2	
		FD	PD	FD	PD
17	0	0	0	0	42
18	9	24	123	88	
19	0	21	109	103	
20	9	0	0	280	
TOTAL	18	45	232	513	

TOTAL FD 250 SF = 28 SY
TOTAL PD 558 SF = 62 SY

SHIELD SPANS
17, 18 & 19

S.N. 016-2454
IL. 171 NB/CW1 CSX RR

SPAN	LANE	LANE 1		LANE 2	
		FD	PD	FD	PD
36	0	0	97	35	
37	0	24	0	9	
38	0	21	37	18	
39	0	0	0	0	
TOTAL	0	0	134	62	

TOTAL FD 134 SF = 15 SY
TOTAL PD 62 SF = 7 SY

SHIELD SPANS
36, 37 & 38

BILL OF MATERIAL

PAY ITEM	UNIT	QUANTITY
PROTECTIVE SHIELD (PERMANENT)	SQ. YD.	3,080

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DECK CONCRETE PATCHING
IL. RTE. 171
OVER
A.T. & S.F. R.R.

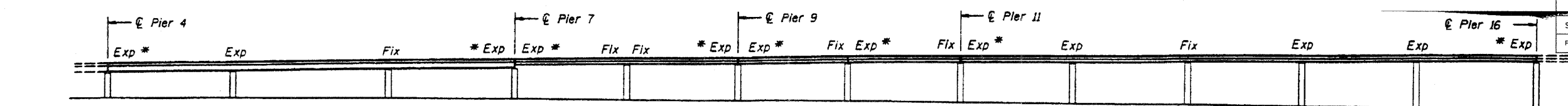
F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
COOK COUNTY STATION 65+10.55
S.N. 016-2455 & S.N. 016-2454

SCALE: NONE DRAWN BY: D.L./F.M.
DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.

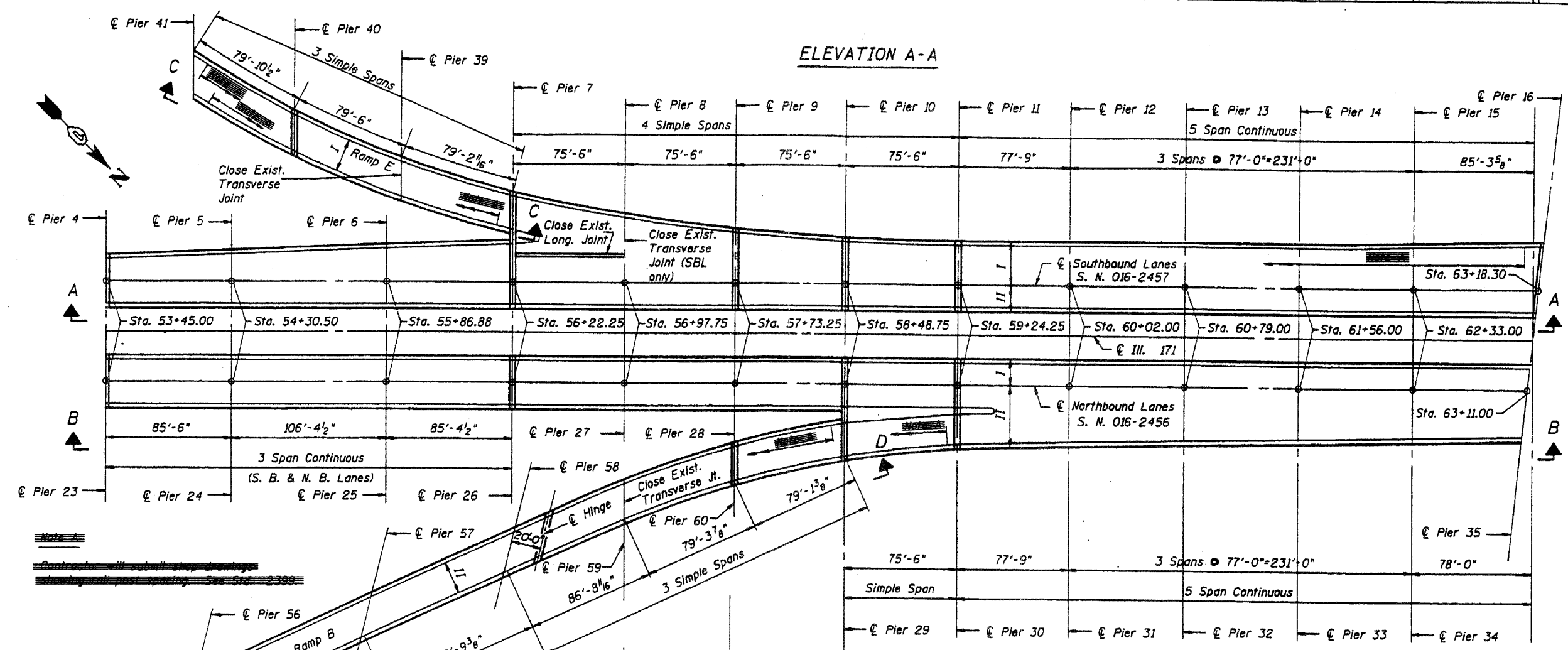
CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	32
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60C94



ELEVATION A-A

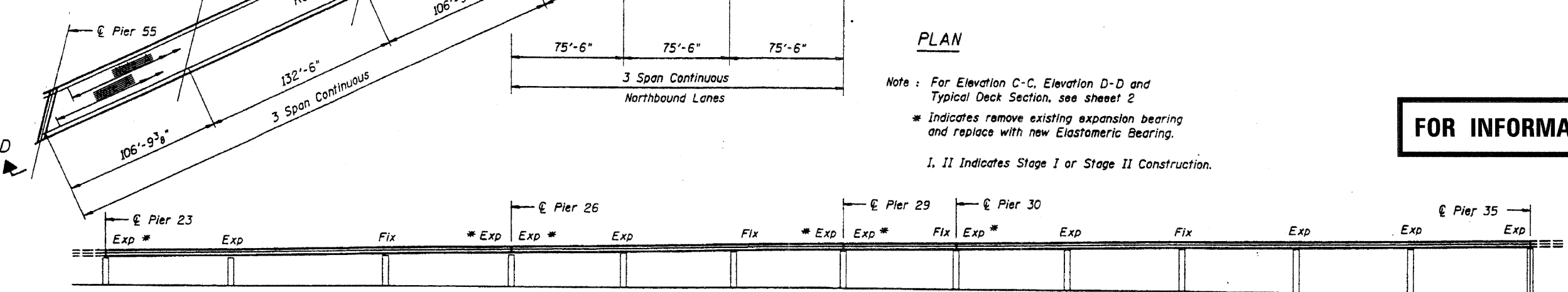


Note:
Contractor will submit shop drawings showing all post spacing. See Std. 2-399.

PLAN

Note: For Elevation C-C, Elevation D-D and Typical Deck Section, see sheet 2
* Indicates remove existing expansion bearing and replace with new Elastomeric Bearing.
I, II Indicates Stage I or Stage II Construction.

FOR INFORMATION ONLY



ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
IL. RTE. 171
OVER
CHICAGO SANITARY AND SHIP CANAL
F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
COOK COUNTY STATION 58+29.83
S.N. 016-2457 & S.N. 016-2456
SCALE: NONE DRAWN BY: D.L./F.M.
DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

REVISIONS	
NAME	DATE

S.N. 016-2457

IL. 171 S.B./Sta. to Sta.

SPAN	LANE 1		LANE 2		RAMP		LANE
	FD	PD	FD	PD	FD	PD	
5	16	0	0	29	16	0	
6	20	0	0	0	20	0	
7	0	0	0	0	0	0	
8	51	0	35	0	49	182	
9	50	24	0	0	50	0	
10	72	72	0	0	72	0	
11	0	0	0	0	0	0	
12	0	0	0	0	0	0	
13	15	15	0	0	15	0	
14	0	0	0	0	0	0	
15	0	42	0	59	0	0	
16	36	12	0	18	36	0	
38	-	-	-	-	0	0	
39	-	-	-	-	81	0	
40	-	-	-	-	0	18	
TOTAL	260	78	35	106	130	78	

TOTAL FD 425 = 48 SY
TOTAL PD 384 = 43 SY
NO SHIELDING

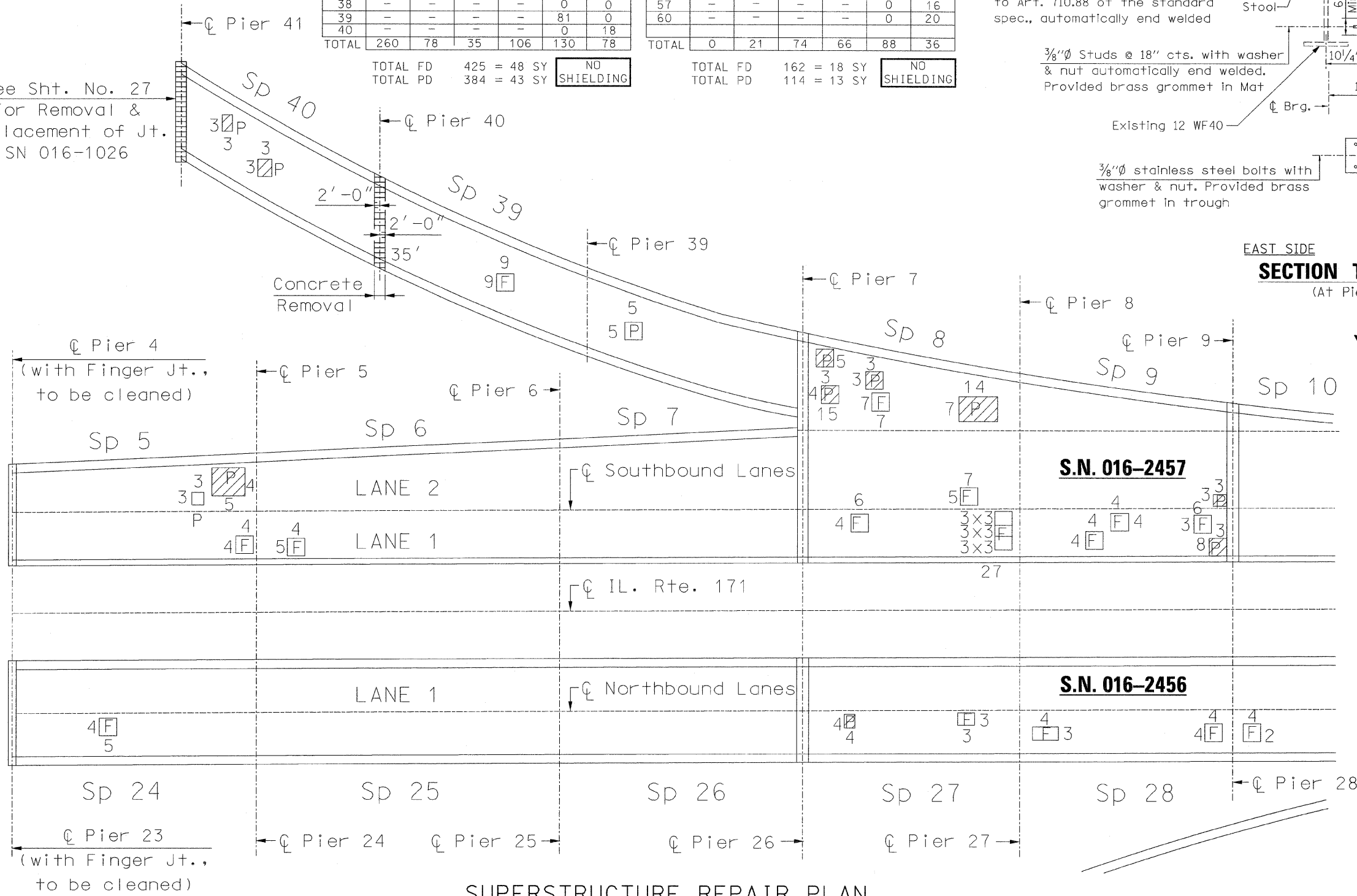
S.N. 016-2456

IL. 171 N.B./Sta. to Sta.

SPAN	LANE 1		LANE 2		RAMP		LANE
	FD	PD	FD	PD	FD	PD	
24	0	0	20	0	0	0	
25	0	0	0	0	0	0	
26	0	0	0	0	0	0	
27	0	0	9	16	0	0	
28	0	0	28	0	0	0	
29	0	0	8	32	0	0	
30	0	0	9	0	0	0	
31	0	0	9	9	88	0	
32	0	0	0	9	0	0	
33	0	12	0	0	0	0	
34	0	0	0	0	0	0	
35	0	0	0	0	0	0	
57	-	-	-	-	0	16	
60	-	-	-	-	0	20	
TOTAL	0	21	74	66	88	36	

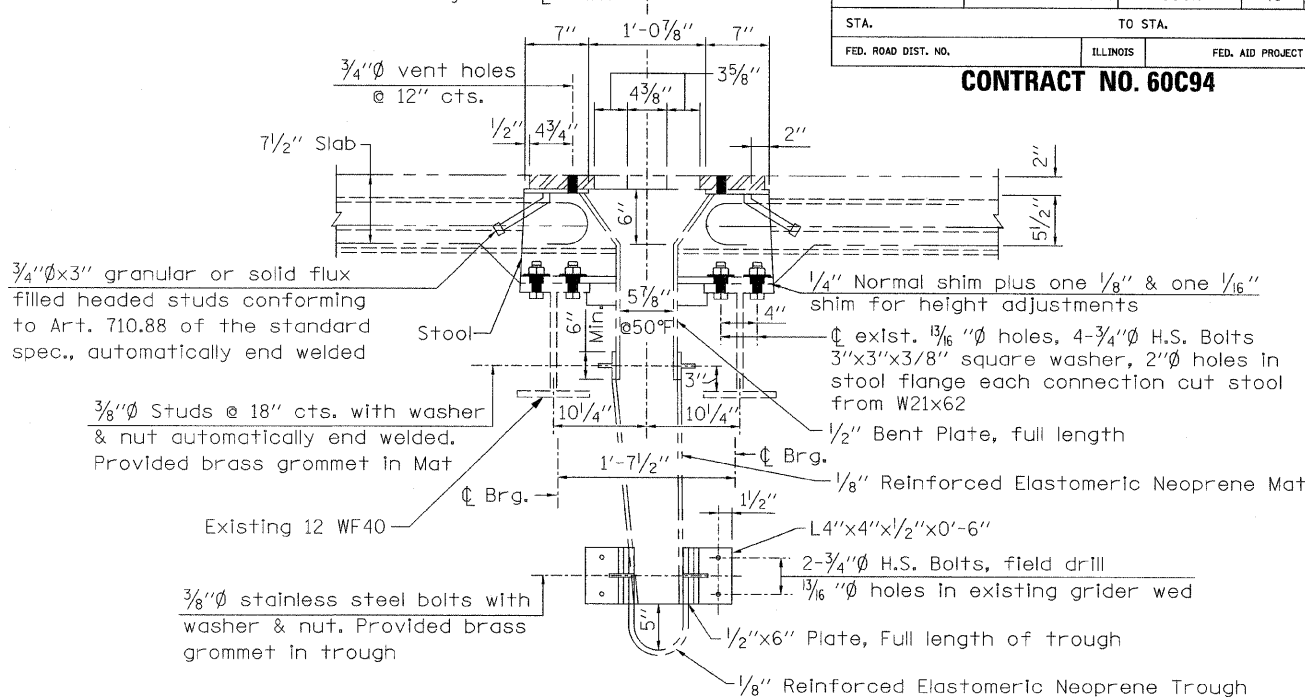
TOTAL FD 162 = 18 SY
TOTAL PD 114 = 13 SY
NO SHIELDING

See Sht. No. 27
For Removal &
Replacement of Jt.
SN 016-1026



SUPERSTRUCTURE REPAIR PLAN

Symm. @ Joint



EAST SIDE WEST SIDE

SECTION THRU FINGER JOINT

(At Pier 4 & Pier 23)
(Existing)

NOTE:
Clean Finger Joint Troughs = 72.0 Lin. Ft.
(Cost Is Included With Deck Slab Repair
(Full Depth, Type II)
Located: Over Pier 4 at S.N. 016-2457
Located: Over Pier 23 at S.N. 016-2456

- LEGEND:**
- (F) FD = FULL DEPTH
 - (P) PD = PARTIAL DEPTH
 - REMOVE & REPLACE JOINT = 35 LIN. FT.

REVISIONS	
NAME	DATE

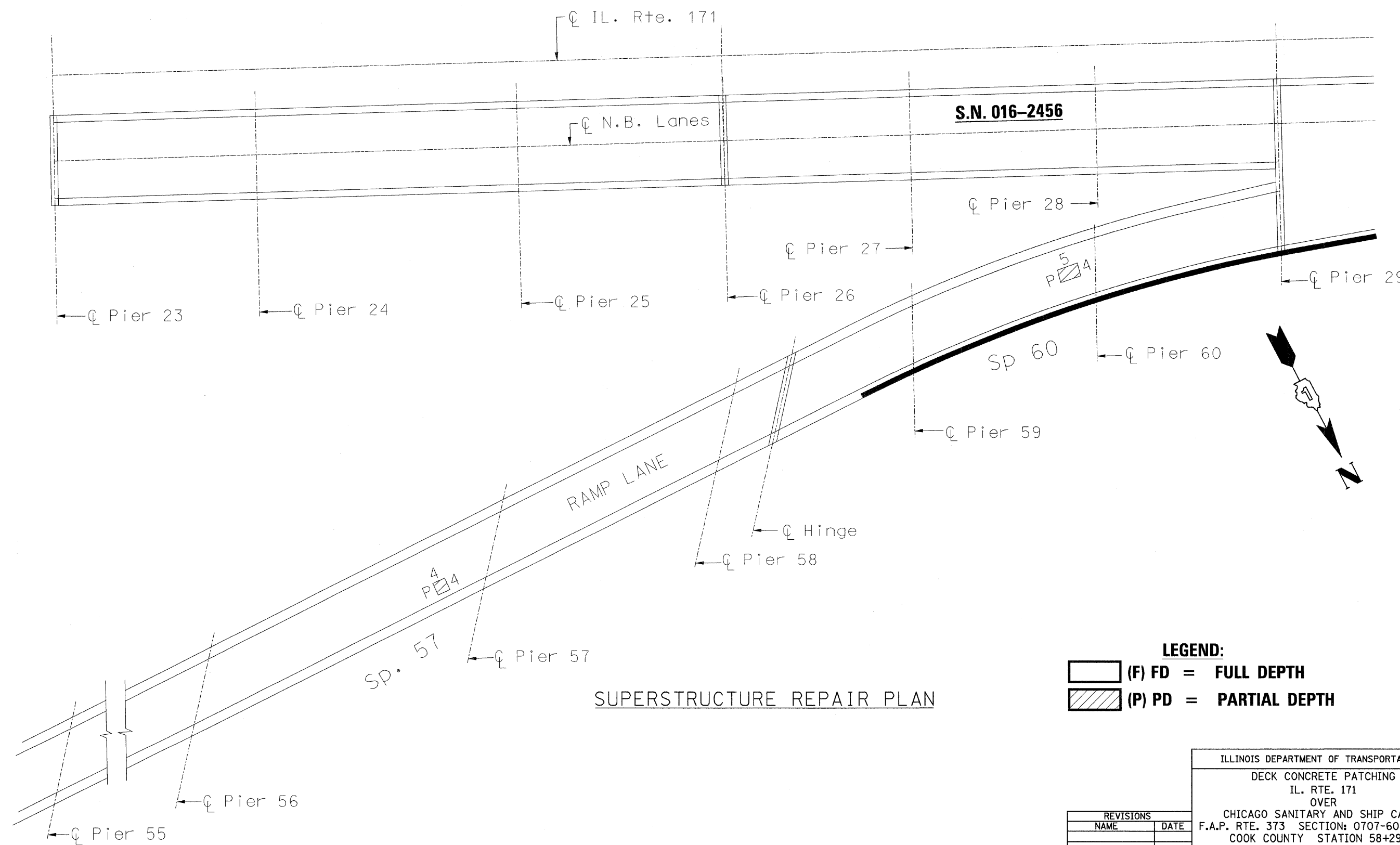
ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK CONCRETE PATCHING
IL. RTE. 171
OVER
CHICAGO SANITARY AND SHIP CANAL
F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
COOK COUNTY STATION 58+29.83
S.N. 016-2457 & S.N. 016-2456
SCALE: NONE DRAWN BY: D.L./F.M.
DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	33
STA. TO STA.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 60C94

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	34
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 60C94



SUPERSTRUCTURE REPAIR PLAN

LEGEND:

	(F) FD = FULL DEPTH
	(P) PD = PARTIAL DEPTH

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK CONCRETE PATCHING
IL. RTE. 171
OVER
CHICAGO SANITARY AND SHIP CANAL
F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
COOK COUNTY STATION 58+29.83
S.N. 016-2456

SCALE: NONE
DATE: DECEMBER 8, 2008

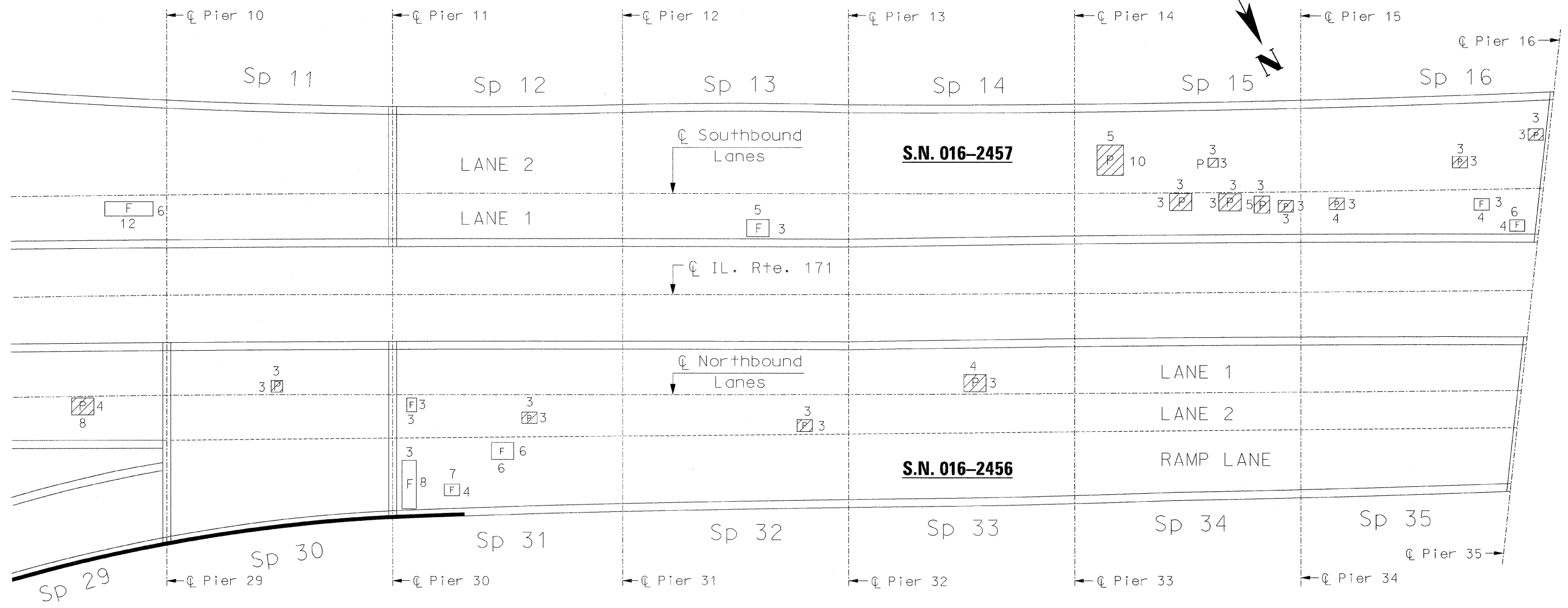
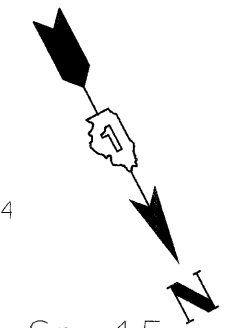
DRAWN BY: D.L./F.M.
CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

12/8/2008 2:54:05 PM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	35
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94



SUPERSTRUCTURE REPAIR PLAN

- LEGEND:**
- (F) FD = FULL DEPTH
 - (P) PD = PARTIAL DEPTH

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DECK CONCRETE PATCHING
IL. RTE. 171
OVER
CHICAGO SANITARY AND SHIP CANAL
F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
COOK COUNTY STATION 58+29.83
S.N. 016-2457 & S.N. 016-2456

SCALE: NONE DRAWN BY: D.L./F.M.
DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.

CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

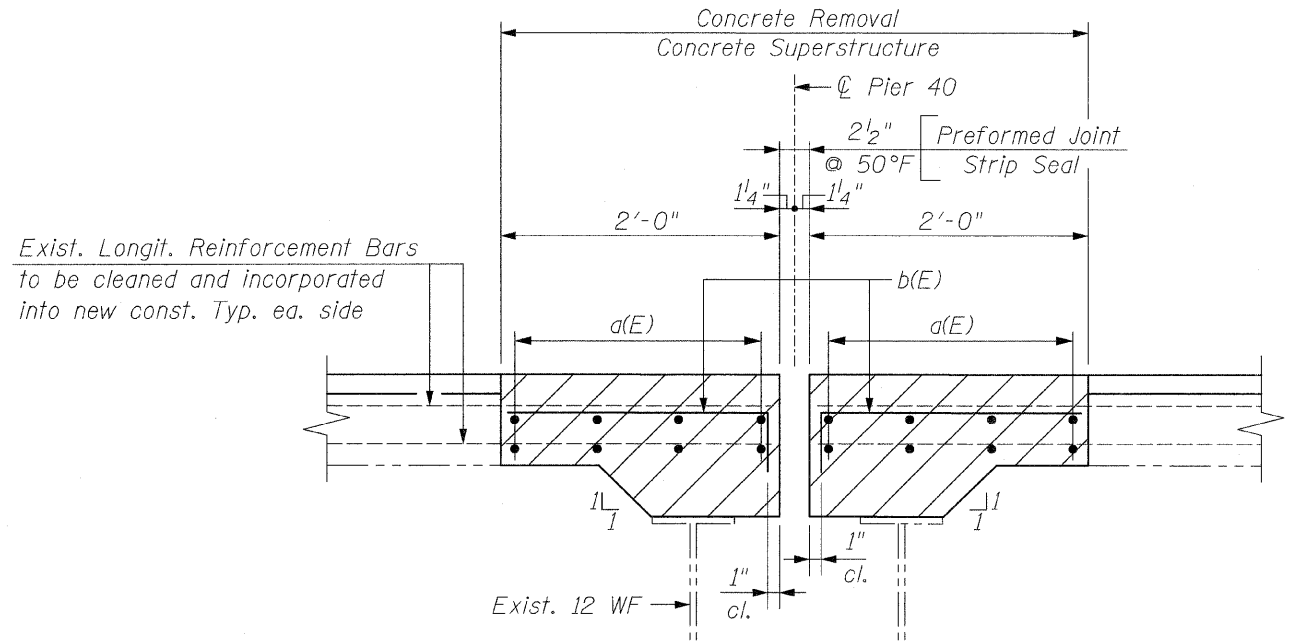
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-1-4	COOK	40	36
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

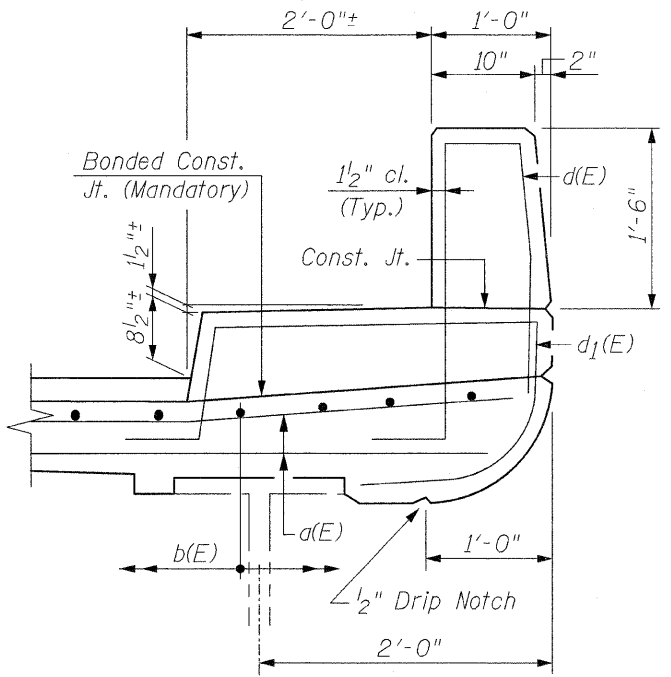
CONTRACT NO. 60C94

BILL OF MATERIAL

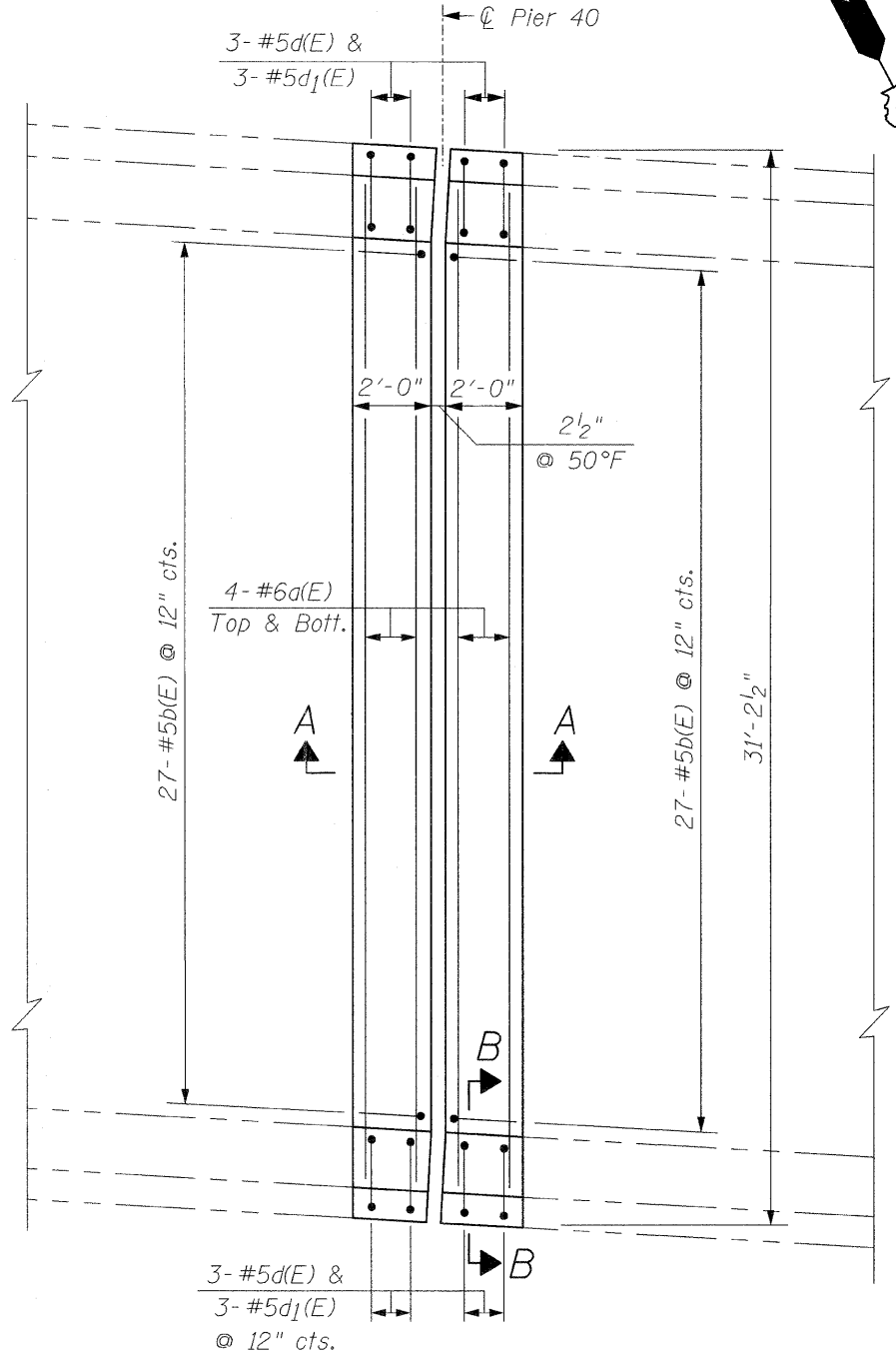
Bar	No.	Size	Length	Shape
a(E)	16	#6	29'-3"	—
b(E)	52	#5	2'-4"	┌
d(E)	12	#5	6'-0"	└
d1(E)	12	#5	6'-8"	└
Reinforcement Bars, Epoxy Coated			Pound	990
Concrete Removal			Cu. Yd.	4.5
Concrete Superstructure			Cu. Yd.	4.5
Preformed Joint Strip Seal			Foot	32



SECTION A-A
(Dimensions are at Rt. L's)

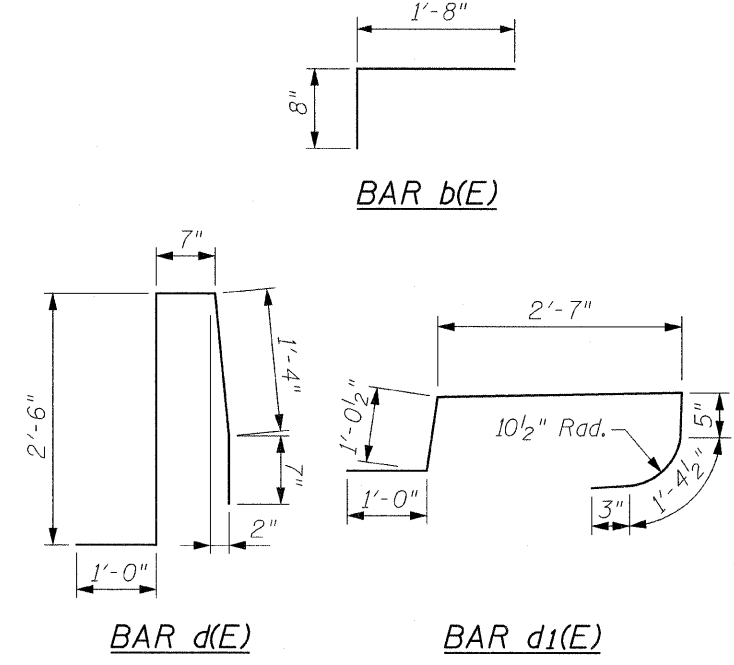


SECTION B-B
(Dimensions are at Rt. L's)



PROPOSED PARTIAL PLAN
Joint Reconstruction @ Pier 40

NOTE:
Remove Neoprene Exp. Joint (2 1/2")
& Replace with Preformed Joint Strip Seal
@ Pier 40.



The Contractor must use extreme caution during concrete removal and must not nick, cut or damage in any way, any of the steel beams. The existing Reinforcement Bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any Reinforcement Bars that are damaged during concrete removal shall be replaced with an approved Bar Splicer or Anchorage System. Cost is included with Concrete Removal.
Reinforcement Bars shall conform to the requirements of ASTM A-706, Gr. 60, See Special Provisions. Reinforcement Bars designated (E) shall be Epoxy Coated.
Cost for removal of existing Neoprene Exp. Joint & Preformed Joint Seal is included in the cost of Concrete Removal.

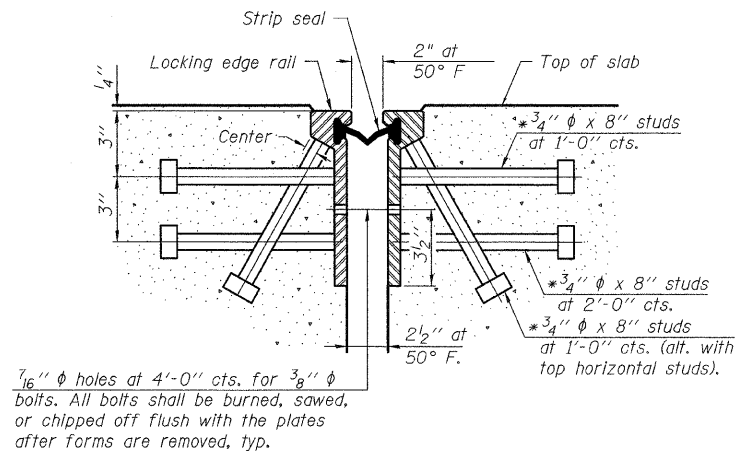
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXPANSION JOINT DETAILS
IL. RTE. 171
OVER
CHICAGO SANITARY AND SHIP CANAL
F.A.P. RTE. 373 SECTION: 0707-608 HB-1-4
COOK COUNTY STATION 58+29.83
S.N. 016-2457
SCALE: NONE
DATE: DECEMBER 8, 2008
DRAWN BY: D.L./F.M.
CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
CHICAGO ILLINOIS

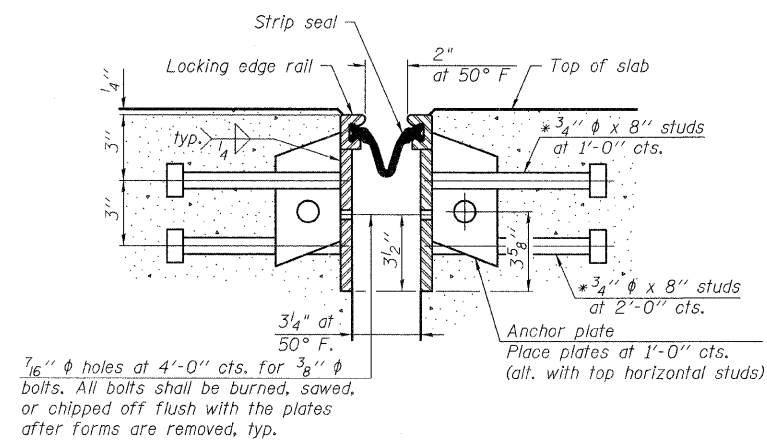
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
373	0707-608 HB-I-4	COOK	40	37
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 60C94

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



**SECTION THRU
ROLLED RAIL JOINT**



**SECTION THRU
WELDED RAIL JOINT**

NOTES:

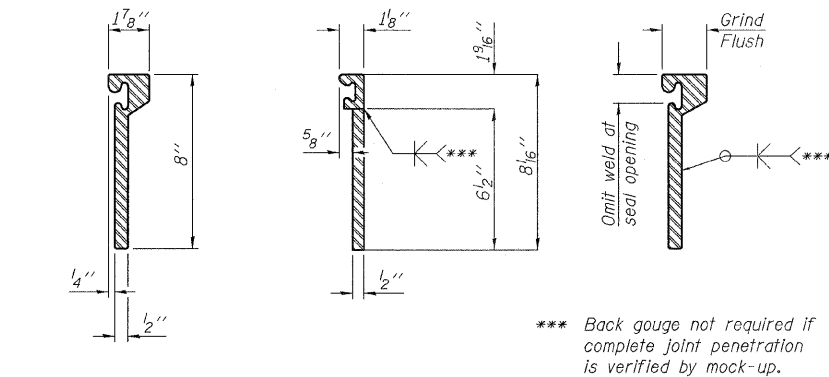
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.



**ROLLED
(EXTRUDED) RAIL WELDED RAIL**

**LOCKING EDGE
RAIL SPLICE**
The inside of the locking edge rail groove shall be free of weld residue.

LOCKING EDGE RAILS

BILL OF MATERIAL

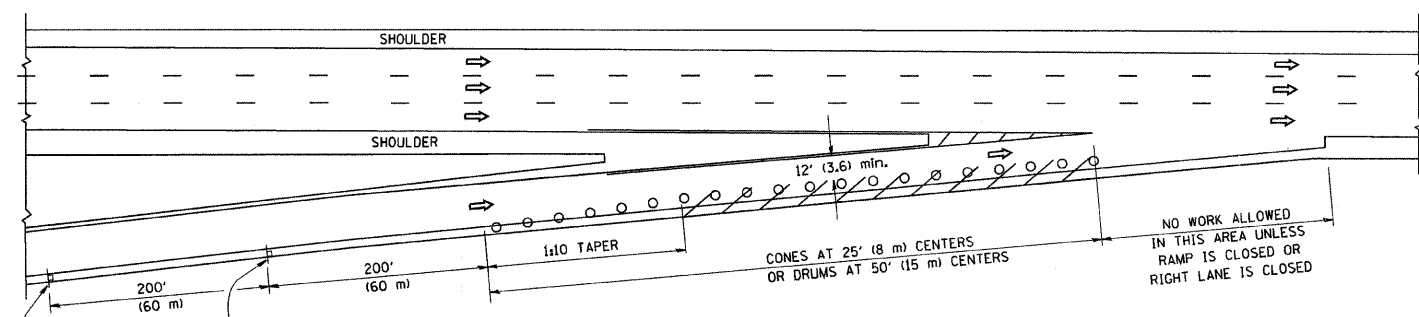
Item	Unit	Total
Preformed Joint Strip Seal	Foot	35

REVISIONS	
NAME	DATE

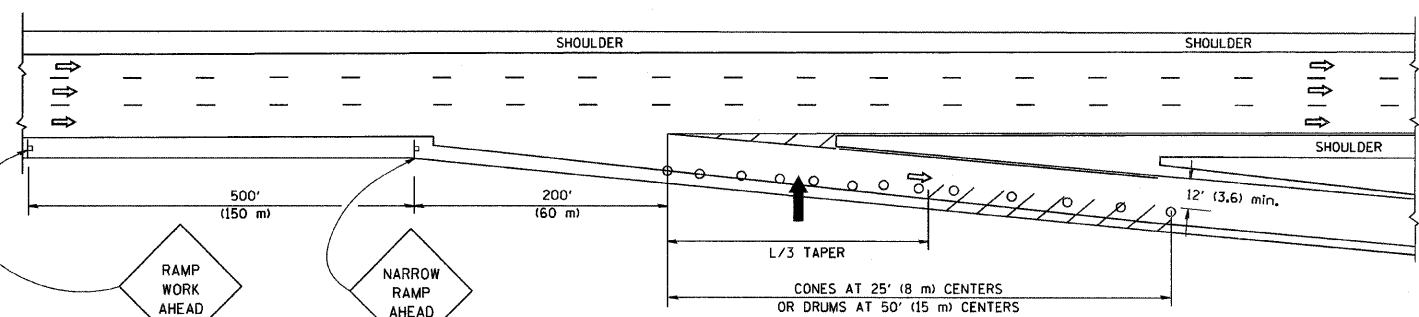
ILLINOIS DEPARTMENT OF TRANSPORTATION
 PREFORMED STRIP SEAL JOINT
 IL. RTE. 171
 OVER
 CHICAGO SANITARY AND SHIP CANAL
 F.A.P. RTE. 373 SECTION: 0707-608 HB-I-4
 COOK COUNTY STATION 58+29.83
 S.N. 016-2457 & S.N. 016-2456
 SCALE: NONE DRAWN BY: D.L./F.M.
 DATE: DECEMBER 8, 2008 CHECKED BY: B.N.S./J.C.N.
CHRISTIAN-ROGE & ASSOC., INC.
 CHICAGO ILLINOIS

PARTIAL RAMP CLOSURE DETAILS

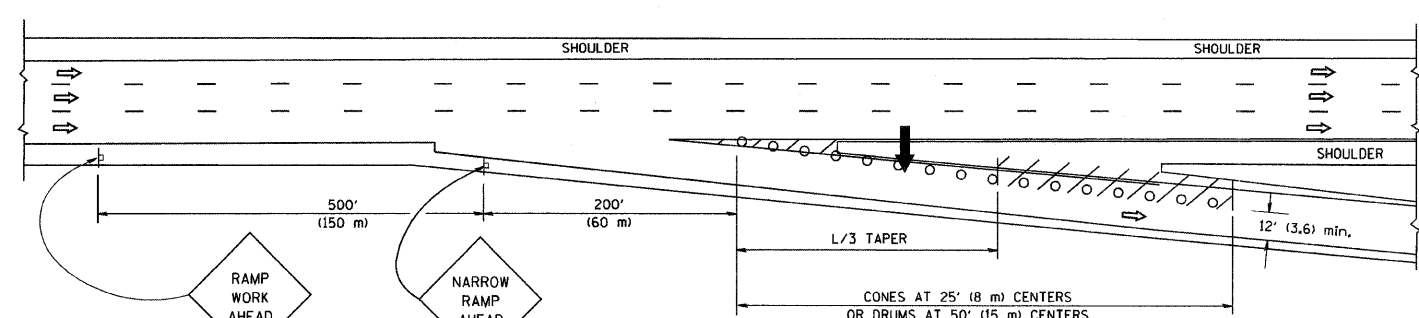
SHOULDER CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

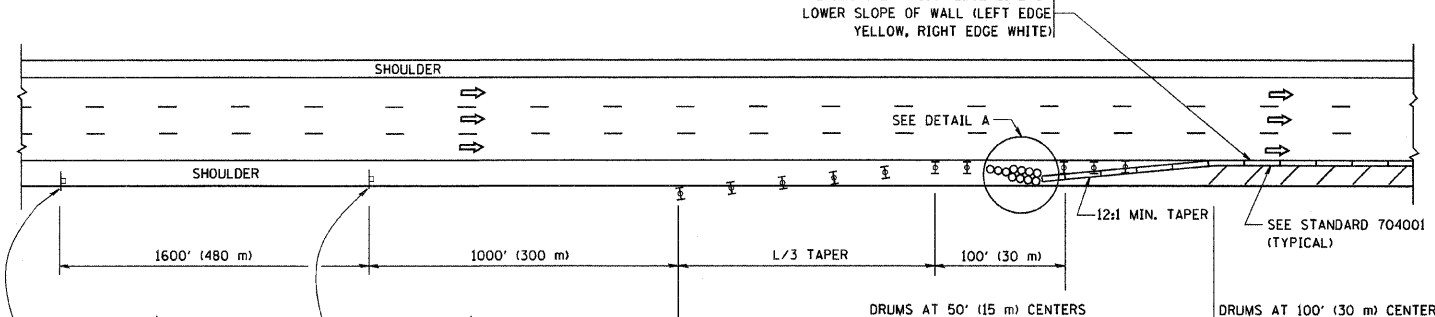
SYMBOLS

- ➔ ARROWBOARD
- ▨ WORK AREA
- ┆ SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

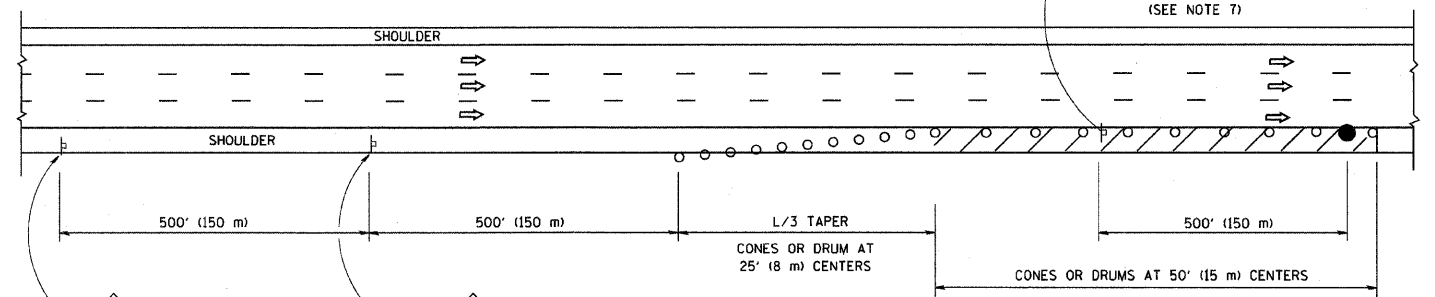
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

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



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

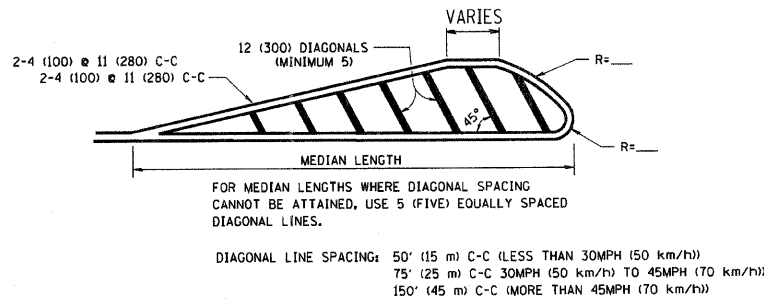
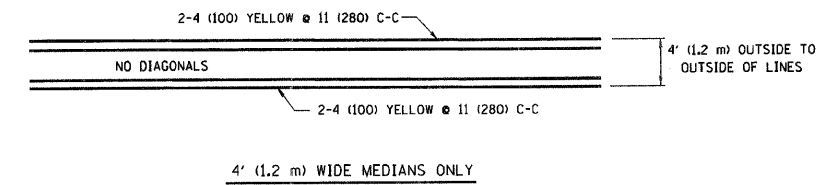
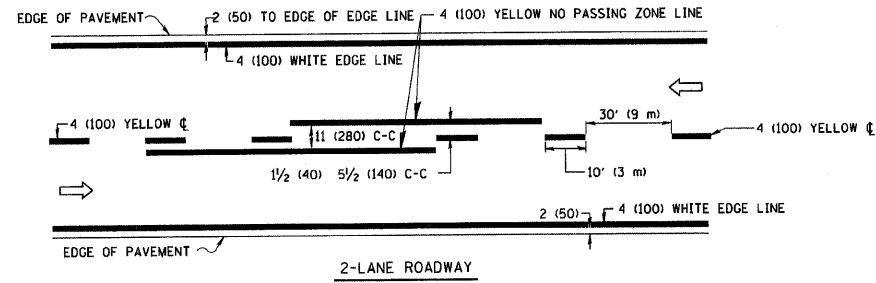
THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRHOACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT FOR POSTED SPEED.

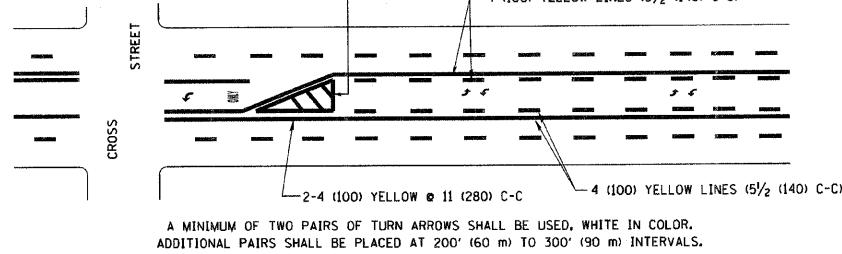
DETAIL "A"
 IMPACT ATTENUATOR, TEMPORARY
 (SEE NOTE 5)

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

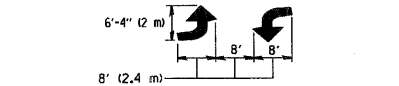
FILE NAME = W:\diststd\22x34\tcl7.dgn	USER NAME = goglanobt	DESIGNED -	REVISED - J.A.F. 12-02	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES		F.A. RTE. 373	SECTION 0707-608 HB-1-4	COUNTY WILL	TOTAL SHEETS 40	SHEET NO. 38	
	PLOT SCALE = 50,0000' / IN.	DRAWN - D.W.S.	REVISED - 04-03		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	TC-17		CONTRACT NO. 60C94		
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - J.A.F. 12-06				FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT			
		DATE - 11-96	REVISED - S.P.B. 01-07									



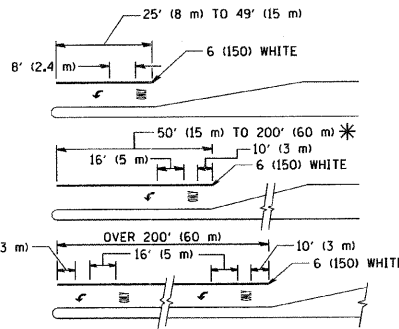
MEDIANS OVER 4' (1.2 m) WIDE



TYPICAL PAINTED MEDIAN MARKING



TYPICAL PAINTED MEDIAN MARKING

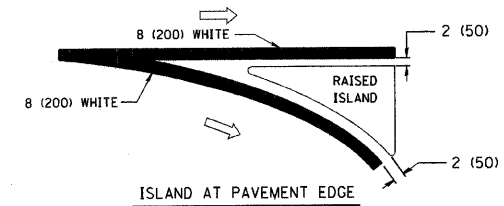
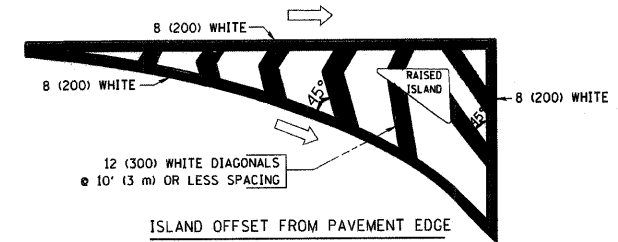


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

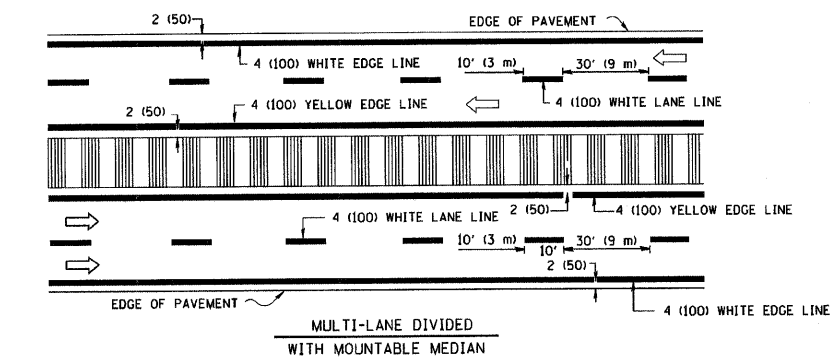
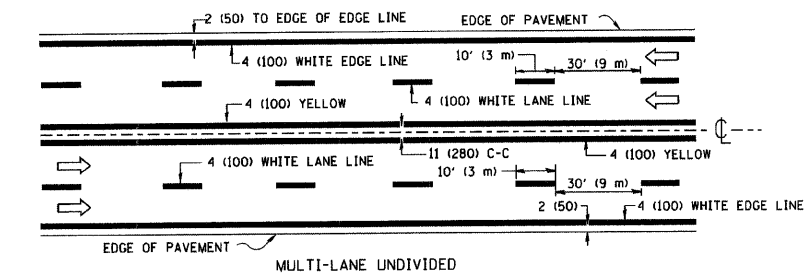
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

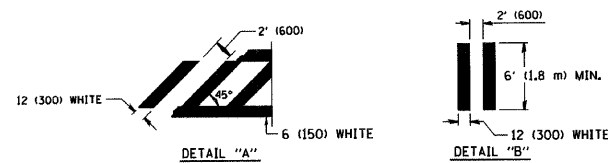
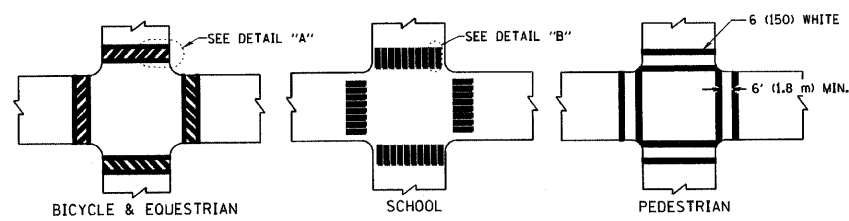


TYPICAL ISLAND MARKING



NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



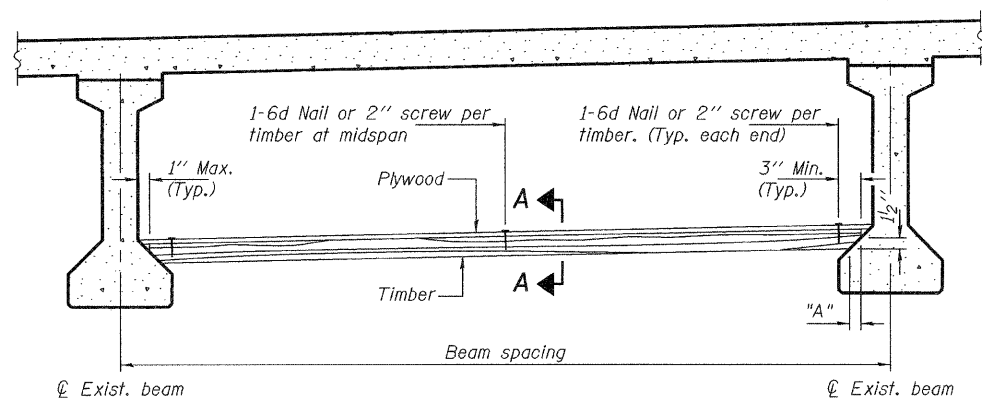
TYPICAL CROSSWALK MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW. EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

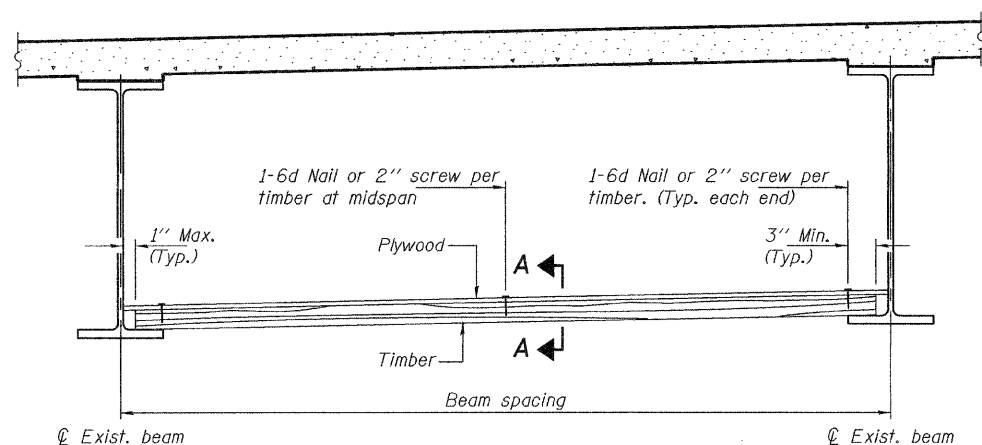
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

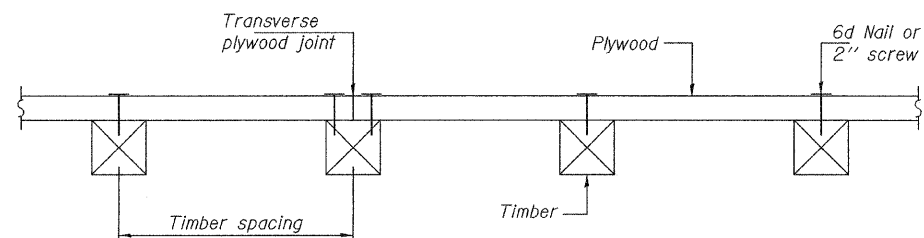
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PPC I-BEAMS AND BULB-T'S



STEEL BEAMS



SECTION A-A

DESIGNED	200
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	ENGINEER OF BRIDGES AND STRUCTURES

PPS-1 01-22-09

TIMBER SPACING

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

PPC I-BEAMS AND BULB-T'S

BEAM	"A"
36" I-Beam	1 1/2"
42" I-Beam	1 1/2"
48" I-Beam	1 1/2"
54" I-Beam	1 5/8"
63" Bulb-T	3 3/8"
72" Bulb-T	3 3/8"

Notes: See special provision for Permanent Protective Shield System.
Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.
The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.
The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions. All timber shall be treated.
Plywood shall be 5/8" rated Exterior type plywood by APA.
Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.
Transverse plywood joints shall be supported by timbers.
When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.
Design load = 200 psf.

BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	3995

PERMANENT PROTECTIVE SHIELD

SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	373	0707-608 HB-I-4	COOK	40	40
SHEETS			CONTRACT NO. 60C94		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			