

062

03-08-2019 LETTING ITEM 062

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.I. SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	1
ILLINOIS			CONTRACT NO. 70D15	

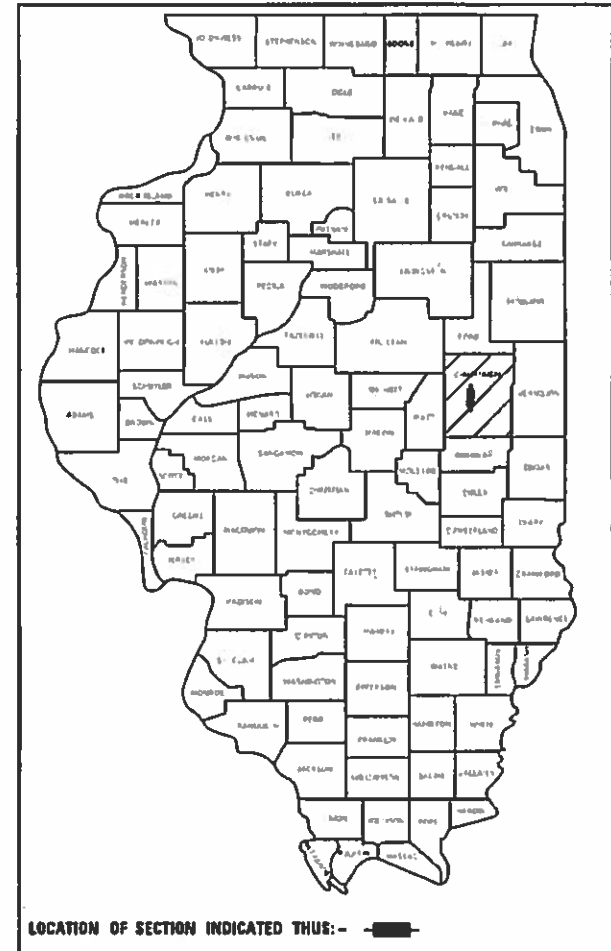
FOR INDEX OF SHEETS, SEE SHEET NO. 2  
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-6

# PROPOSED HIGHWAY PLANS

FAI ROUTE 74 (I-74)  
SECTION (14-HB)BDR  
PROJECT NHPP-7UH0(217)  
BRIDGE DECK REPAIR  
UNDER PROSPECT AVE. IN CHAMPAIGN  
CHAMPAIGN COUNTY

C-95-008-19

D-95-051-18



### PROSPECT AVE.

#### CURRENT TRAFFIC DATA STR. 010-0186

2018 ADT = 31,700  
2038 ADT = 34,900  
PU+PC % = 95.5  
SU % = 3.2  
MU% = 1.3

#### DESIGN DESIGNATION

OTHER PRINCIPAL ARTERIAL

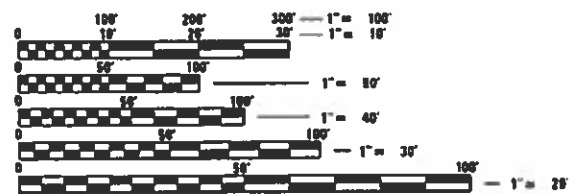
### F.A.I.-74

#### CURRENT TRAFFIC DATA

2018 ADT = 53,300  
2038 ADT = 64,000  
PU+PC % = 84.9  
SU % = 2.9  
MU% = 12.2

#### DESIGN DESIGNATION

INTERSTATE



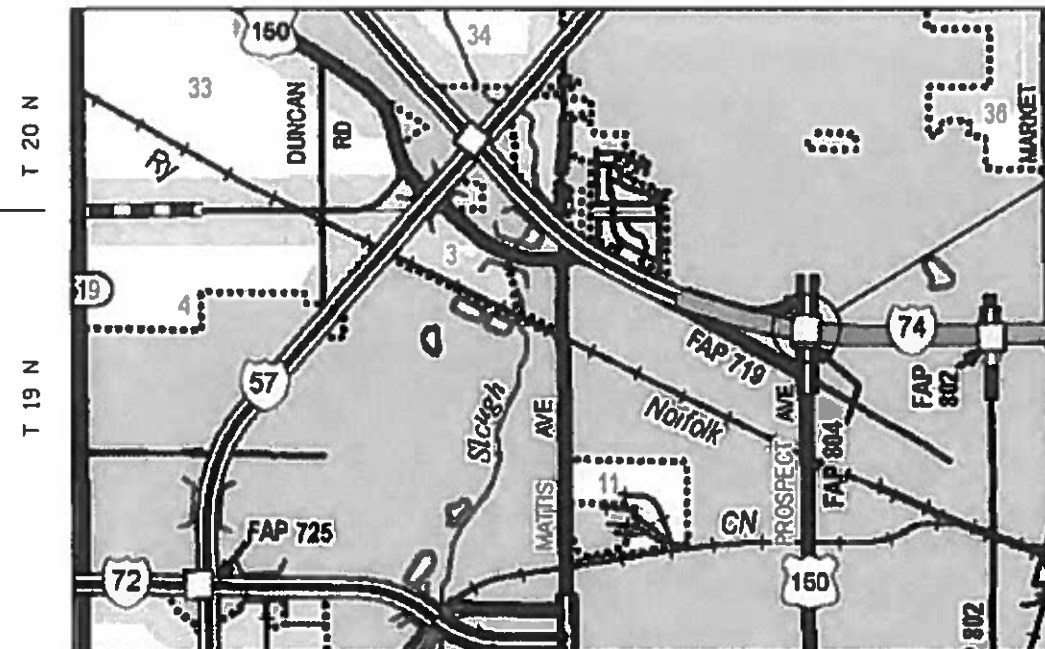
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

TOWNSHIP: CHAMPAIGN

PROJECT ENGINEER: TIM BRANDENBURG  
PROJECT DESIGNER: ERIC SHAWLER  
217-465-4181

CONTRACT NO. 70D15



EXISTING S.N. 010-0186  
F.A.I. 74 (I-74)  
PROSPECT AVE. OVER I-74  
BRIDGE DECK REPAIRS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED *December 11 2018*  
*Paul P. Chafin*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER  
*Feb 1 2019*  
*Eric A. Etkin*  
ENGINEER OF DESIGN AND ENVIRONMENT  
*Paul P. Chafin*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

R 8 E

GROSS LENGTH = 425.00 FT. = 0.0805 MILE  
NET LENGTH = 425.00 FT. = 0.0805 MILE

## INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS
2	LIST OF STANDARDS
2	GENERAL NOTES
3-6	SUMMARY OF QUANTITIES
7-8	SCHEDULES
9-13	DETAILS FOR STAGE CONSTRUCTION
14	CONCRETE MEDIAN REMOVAL
15-16	DETAILS FOR MILLING & PAVING TRANSITIONS
17-19	CONCRETE MEDIAN TYPE SB (SPECIAL)
20-57	STRUCTURE PLANS S.N. 010-0186
58	DETECTOR LOOP PLAN
59-63	PAVEMENT MARKING DETAILS
64-66	DETAILS FOR WIDTH RESTRICTION SIGNING

## GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

GN 105.07C

EXISTING STATE-OWNED AND MAINTAINED UNDERGROUND UTILITY FACILITIES EXIST WITHIN THE R.O.W. THE DEPARTMENT IS NOT A MEMBER OF JULIE AND DOES NOT LOCATE IT'S OWN FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE AT THEIR OWN EXPENSE FOR SECURING AN APPROVED LOCATING FIRM TO LOCATE ALL EXISTING IDOT UNDERGROUND FACILITIES PRIOR TO COMMENCING ANY EXCAVATION, PER THE REQUIREMENTS OF ARTICLE 803 OF THE STANDARD SPECIFICATIONS. UTILITY LOCATES MAY ALSO BE REQUIRED OUTSIDE THE PROJECT LIMITS, SUCH AS FOR TRAFFIC CONTROL SIGNING AND OTHER ITEMS. THE CONTRACTOR MAY OBTAIN, ON REQUEST, PLANS OF EXISTING ELECTRICAL FACILITIES FROM THE DEPARTMENT. FOR FURTHER INFORMATION, THE CONTRACTOR MAY CONTACT THE DISTRICT TRAFFIC OPERATIONS ENGINEER, GARY SIMS, AT 217-251-4859.

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR LOCATING AND PROVIDING PROTECTION FOR FACILITIES DURING ALL PHASES OF CONSTRUCTION. IF, AT ANY TIME, THE FACILITIES ARE DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DEPARTMENT AND MAKE ALL NECESSARY ARRANGEMENTS FOR REPAIR TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-105.09A

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-406H

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

Location Mixture Use	Prospect Ave. Polymer Surface
AC/PG	SBS PG 70-22
Design Air Voids	4.0% @ Ndes=70
Mix Comp(Gradation)	IL 9.5
Friction Aggregate	Mix D
Mixture Weight	112
Quality Management Program	QC/QA
Sublot Size	N.A.

SEE R.E. FILE FOR CALCULATIONS AND SCHEDULES.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

## LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND FOOT
701101-05	OFF ROAD OPERATIONS, MULTILANE 15' TO 24" FROM PAVEMENT EDGE
701321-17	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701400-09	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701406-12	LANE CLOSURE, FREEWAY / EXPRESSWAY DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE AT ENTRANCE OR EXIT RAMP FOR SPEEDS > 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY / EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY / EXPRESSWAY
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
880001-01	SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

MODEL: \\MODELNAME  
FILE NAME: \\FILENAME  
PROJECT: \\PROJECT  
DRAWING: \\DRAWING  
DATE: \\DATE

USER NAME = shawleres	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, STANDARDS, GENERAL NOTES  
S.N. 010-0186**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	2
				CONTRACT NO. 70D15
ILLINOIS FED. AID PROJECT				

CHAMPAIGN CO.
FAI 74 (I-74)
URBAN / MULTILANE
BRIDGE DECK REPAIR
S.N. 010-0186
90% FED 10% STATE
0059

CODE NO.	ITEM	UNIT	QUANTITY
28100107	STONE RIPRAP, CLASS A4	SQ YD	28.0
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	338.0
40603540	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	137.0
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	300.0
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	756.0
44000600	SIDEWALK REMOVAL	SQ FT	300.0
50102400	CONCRETE REMOVAL	CU YD	21.2
50104650	SLOPE WALL REMOVAL	SQ YD	28.0
50157300	PROTECTIVE SHIELD	SQ YD	971.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	23.9
50300300	PROTECTIVE COAT	SQ YD	2,067.0
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	11,630.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5,670.0
50800515	BAR SPLICERS	EACH	24.0

\* SPECIALTY ITEM

MODEL: \\MODELNAME  
FILE NAME: \\FILENAME

USER NAME = shawleres	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/11/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
S.N. 010-0186

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	3
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				

CHAMPAIGN CO.
FAI 74 (I-74)
URBAN / MULTILANE
BRIDGE DECK REPAIR
S.N. 010-0186
90% FED 10% STATE
0059

CODE NO.	ITEM	UNIT	QUANTITY
52000110	PREFORMED JOINT STRIP SEAL	FOOT	174.0
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	30.0
52100520	ANCHOR BOLTS, 1"	EACH	60.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	12.0
67100100	MOBILIZATION	L SUM	1.0
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	4.0
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1.0
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	24.0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	412.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	412.5
70600240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2.0
70600340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2.0
* 78008300	POLYUREA PAVEMENT MARKING TYPE II - LETTERS AND SYMBOLS	SQ FT	125.0
* 78008310	POLYUREA PAVEMENT MARKING TYPE II - LINE 4"	FOOT	1680.0

\* SPECIALTY ITEM

MODEL: \\MODELNAME  
FILE NAME: \\FILENAME  
PROJECT: \\PROJECT  
DRAWING: \\DRAWING  
DATE: 12/11/2018

USER NAME = shawleres	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/11/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
S.N. 010-0186

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	4
			CONTRACT NO. 70D15	
		ILLINOIS	FED. AID PROJECT	

CHAMPAIGN CO.
FAI 74 (I-74)
URBAN / MULTILANE
BRIDGE DECK REPAIR
S.N. 010-0186
90% FED 10% STATE
0059

CODE NO.	ITEM	UNIT	QUANTITY
* 78008370	POLYUREA PAVEMENT MARKING TYPE II - LINE 24"	FOOT	100.0
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2.0
X4403300	CONCRETE MEDIAN REMOVAL	SQ FT	1,874.0
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,848.0
X6061100	CONCRETE MEDIAN, TYPE SB (SPECIAL)	SQ FT	1,874.0
X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1.0
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0
* X7830060	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	125.0
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	1,680.0
* X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	100.0
* X8860400	DETECTOR LOOP, SPECIAL	FOOT	140.0
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	30.0
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	7,210.0
Z0001905	STRUCTURAL STEEL REPAIR	POUND	8,600.0

\* SPECIALTY ITEM

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FILE NAME: p:\u\848E\BID\NTEC\Illinois.gov\PWD\DOT\Documents\DOT\_Offices\District 5\Projects\0570D15\CADD\Data\Structures\0570D15\_eht\_500.dgn

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	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/11/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
S.N. 010-0186

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	5
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				





# EXISTING PAVEMENT MARKINGS

PAVEMENT MARKING - REMOVAL GRINDING - LINE 4"								
ITEM	LINE TYPE	LOCATION	FROM STA.	OFFSET	TO STA.	OFFSET	STRIPES	* PAVEMENT MARKING - REMOVAL GRINDING SQ FT
<b>PROSPECT AVE. (NB)</b>								
LANE LINE	SD	PROSPECT AVE. OVER BRIDGE	182+65.3	29.5' RT	183+91.7	35' RT	4.0	13.3
LANE LINE	SOLID	PROSPECT AVE. (NORTH)	182+65.3	23' RT	183+91.7	23' RT	NA	42.2
LANE LINE	SOLID	PROSPECT AVE. TO RAMP A	182+65.3	11' RT	183+58.0	11' RT	NA	30.9
<b>PROSPECT AVE. (SB)</b>								
LANE LINE	SD	PROSPECT AVE. OVER BRIDGE	179+32.5	19.5' LT	183+58.0	18.5' LT	11.0	36.7
LANE LINE	SOLID	PROSPECT AVE. (SOUTH)	179+32.5	8' LT	180+77.0	8' LT	NA	48.2
LANE LINE	SOLID	PROSPECT AVE. TO RAMP D	179+67.5	3' RT	180+77.0	3' RT	NA	36.5
<b>CONCRETE MEDIANS</b>								
MEDIAN	SOLID	PROSPECT AVE. OVER BRIDGE (NB)	182+00.0	RT	183+58.8	LT	NA	335.0
MEDIAN	SOLID	PROSPECT AVE. OVER BRIDGE (SB)	179+65.3	RT	180+25.0	LT	NA	125.0
<b>TURN LANE LINE EXTENSIONS</b>								
LANE LINE	LL EXT	RAMP D LANE LINE EXTENSION	179+67.5	3' RT	50+88.0	20.5' LT	23.0	15.3
LANE LINE	LL EXT	RAMP A LANE LINE EXTENSION	183+58.0	11' RT	11+00.0	1' LT	26.0	17.3
LANE LINE	LL EXT	RAMP B LANE LINE EXTENSION	183.58.0	19' LT	29+15.0	9.3' LT	22.0	14.7
<b>CONTRACT 70D15 SUB-TOTALS</b>								715.1
<b>ROUNDED</b>								<b>716.0</b>

SD = SKIP-DASH  
LL EXT = LANE LINE EXTENSION

\* COST INCLUDED IN STANDARD: 701321 (SPECIAL)

# FINAL PAVEMENT MARKINGS

PAVEMENT MARKING - LINE 4"									
ITEM	LINE TYPE	LOCATION	FROM STA.	OFFSET	TO STA.	OFFSET	STRIPES	78008310	X7830070
								POLYUREA PAVEMENT MARKINGS TYPE II - LINE 4"	
								GROOVING FOR RECESSED PAVEMENT MARKING 5"	
								FOOT	
								YELLOW	WHITE
<b>PROSPECT AVE. (NB)</b>									
LANE LINE	SD	PROSPECT AVE. OVER BRIDGE	179+88.0	29.5' RT	183+91.7	35' RT	11.0		110
LANE LINE	SOLID	PROSPECT AVE. (NORTH)	182+47.0	23' RT	183+91.7	23' RT	NA	144.7	144.7
LANE LINE	SOLID	PROSPECT AVE. TO RAMP A	182+47.0	11' RT	183+58.0	11' RT	NA	111	111
<b>PROSPECT AVE. (SB)</b>									
LANE LINE	SD	PROSPECT AVE. OVER BRIDGE	179+32.5	19.5' LT	183+58.0	18.5' LT	11.0		110
LANE LINE	SOLID	PROSPECT AVE. (SOUTH)	179+32.5	8' LT	180+77.0	8' LT	NA	144.5	144.5
LANE LINE	SOLID	PROSPECT AVE. TO RAMP D	179+67.5	3' RT	180+77.0	3' RT	NA	109.5	109.5
<b>CONCRETE MEDIANS</b>									
MEDIAN	SOLID	PROSPECT AVE. OVER BRIDGE	179+65.3	RT	183+58.8	LT	NA	800	800
<b>TURN LANE LINE EXTENSIONS</b>									
LANE LINE	LL EXT	RAMP D LANE LINE EXTENSION	179+67.5	3' RT	50+88.0	20.5' LT	23.0		46
LANE LINE	LL EXT	RAMP A LANE LINE EXTENSION	183+58.0	11' RT	11+00.0	1' LT	26.0		52
LANE LINE	LL EXT	RAMP B LANE LINE EXTENSION	183.58.0	19' LT	29+15.0	9.3' LT	22.0		44
<b>CONTRACT 70D15 SUB-TOTALS</b>								800.0	871.7
<b>CONTRACT 70D15 TOTALS</b>								1671.7	
<b>ROUNDED</b>								1680.0	

SD = SKIP-DASH  
LL EXT = LANE LINE EXTENSION

## PAVEMENT MARKING - LINE 24"

ITEM	NB/SB	LOCATION	FROM STA.	OFFSET	TO STA.	OFFSET	78008370	X7830090	* PAVEMENT MARKING - REMOVAL GRINDING
							POLYUREA PAVEMENT MARKING TYPE II - LINE 24"	GROOVING FOR RECESSED PAVEMENT MARKING 25"	SQ FT
<b>PROSPECT AVE. (NB)</b>									
STOP BAR	NB	PROSPECT TURN TO RAMP A	183+58.0	0.5' LT	183+58.0	23.5' RT	23.0	23.0	23.0
STOP BAR	NB	PROSPECT STOP AT RAMP B	183+91.7	23.5 RT	183+91.7	47.0' RT	23.5	23.5	
<b>PROSPECT AVE. (SB)</b>									
STOP BAR	SB	PROSPECT AT RAMP C	179+32.5	8' LT	179+32.5	31' LT	23.0	23.0	
STOP BAR	SB	PROSPECT TURN TO RAMP D	179+67.5	8' LT	179+67.5	14.5' RT	22.5	22.5	22.5
<b>CONTRACT 70D15 TOTALS</b>							92.0	92.0	45.5
<b>ROUNDED</b>							100.0	100.0	46.0

\* COST INCLUDED IN STANDARD: 701321 (SPECIAL)

## PAVEMENT MARKING - LETTERS AND SYMBOLS

LOCATION	SYMBOL	STA.	OFFSET	LT/RT	78008300	X7830060	* PAVEMENT MARKING - REMOVAL GRINDING
					POLYUREA PAVEMENT MARKING TYPE II LETTERS AND SYMBOLS	GROOVING FOR RECESSED PAVEMENT LETTERS &	SQ FT
<b>PROSPECT AVE. (NB)</b>							
NB-Prospect	LT ARROW	182+47.0	8'	RT	15.6	15.6	
NB-Prospect	LT ARROW	182+47.0	20'	RT	15.6	15.6	
NB-Prospect	LT ARROW	183+38.0	8'	RT	15.6	15.6	15.6
NB-Prospect	LT ARROW	183+38.0	20'	RT	15.6	15.6	15.6
<b>PROSPECT AVE. (SB)</b>							
SB-Prospect	LT ARROW	179+88.0	6'	RT	15.6	15.6	15.6
SB-Prospect	LT ARROW	179+88.0	4'	LT	15.6	15.6	15.6
SB-Prospect	LT ARROW	180+77.0	6'	RT	15.6	15.6	
SB-Prospect	LT ARROW	180+77.0	4'	LT	15.6	15.6	15.6
<b>CONTRACT 70D15 TOTALS</b>					124.8	124.8	78.0
<b>ROUNDED</b>					125.0	125.0	78.0

\* COST INCLUDED IN STANDARD: 701321 (SPECIAL)

STA/OFFSET FOR "LT ARROW" AND "RT ARROW" IS FOR A POINT ON THE TAIL OF THE ARROW

MODEL: \\MODELNAME  
FILE: \\NAME.PLOT  
C:\PROJECTS\70D15\CADD\DATA\STRUCTURES\70D15\_PLOT\_SCHEDULE.dgn

USER NAME = shawleres	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE  
S.N. 010-0186

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70D15	



PLAN NOTES:

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701602.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE HIGHWAY STANDARD 704001.

REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS. COST TO BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 70321 (SPECIAL).

TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, ALONGSIDE THE WORK AREA, ON BOTH SIDES OF THE WORK AREA FROM STOP BAR TO STOP BAR AS SHOWN ON THE STAGING DETAILS AND SCHEDULES. ANY EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED BY GRINDING. COST OF GRINDING EXISTING MARKINGS AND FOR PLACEMENT AND REMOVAL OF TEMPORARY PAVEMENT MARKINGS SHALL BE INCLUDED IN COST FOR TRAFFIC CONTROL STANDARD 701321 (SPECIAL).

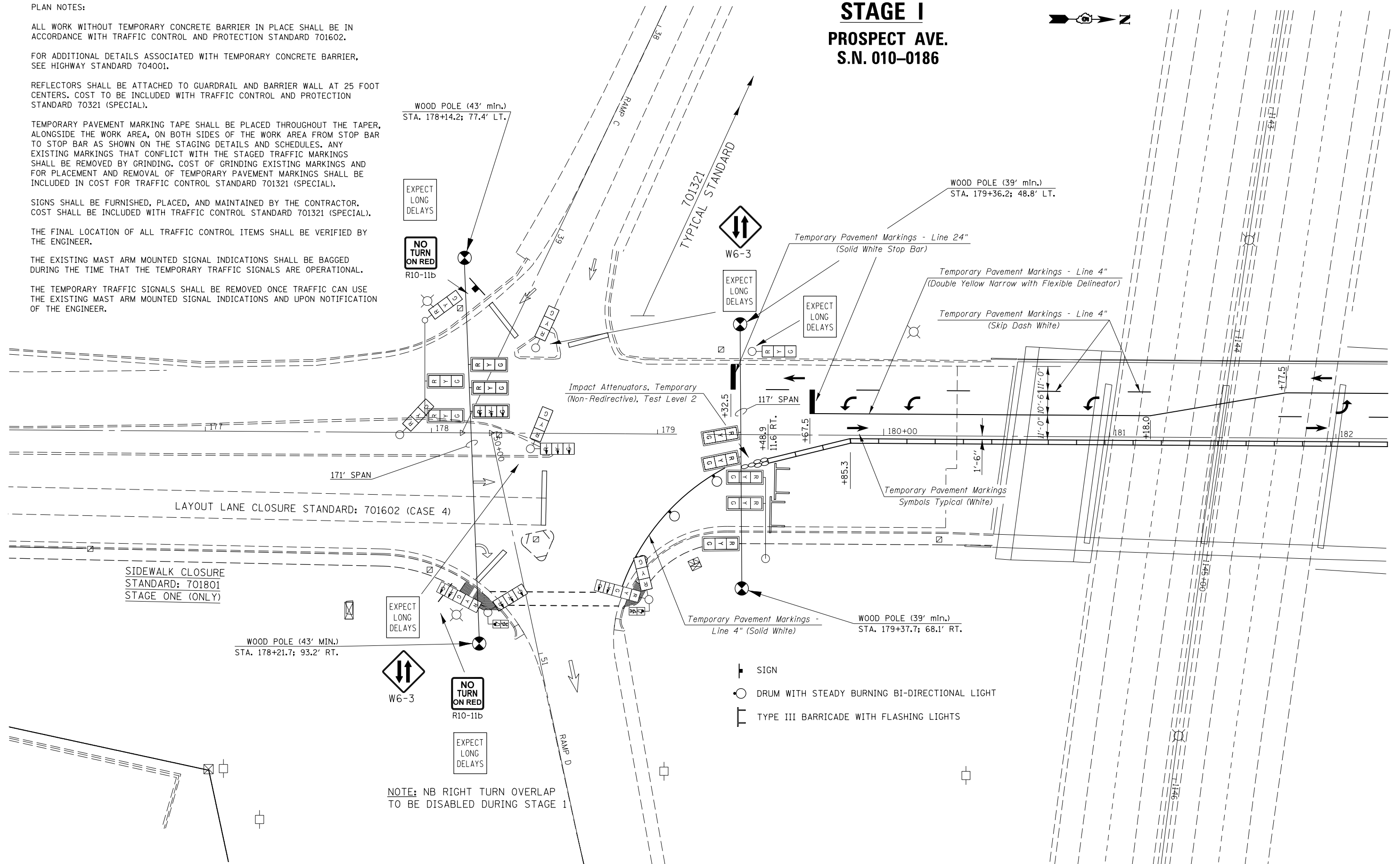
SIGNS SHALL BE FURNISHED, PLACED, AND MAINTAINED BY THE CONTRACTOR. COST SHALL BE INCLUDED WITH TRAFFIC CONTROL STANDARD 701321 (SPECIAL).

THE FINAL LOCATION OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER.

THE EXISTING MAST ARM MOUNTED SIGNAL INDICATIONS SHALL BE BAGGED DURING THE TIME THAT THE TEMPORARY TRAFFIC SIGNALS ARE OPERATIONAL.

THE TEMPORARY TRAFFIC SIGNALS SHALL BE REMOVED ONCE TRAFFIC CAN USE THE EXISTING MAST ARM MOUNTED SIGNAL INDICATIONS AND UPON NOTIFICATION OF THE ENGINEER.

# STAGE I PROSPECT AVE. S.N. 010-0186



- ┆ SIGN
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- ┆ TYPE III BARRICADE WITH FLASHING LIGHTS

NOTE: NB RIGHT TURN OVERLAP TO BE DISABLED DURING STAGE 1

MODEL: STAGE I.DWG  
FILE NAME: P:\PROJECTS\70D15\CADD\DATA\Structures\70D15\_010\_0186.dwg

USER NAME = shawleres	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION,  
STANDARD 701321 (SPECIAL)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	9
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				

# STAGE I PROSPECT AVE. S.N. 010-0186



**PLAN NOTES:**

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701602.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE HIGHWAY STANDARD 704001.

REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS. COST TO BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 70321 (SPECIAL).

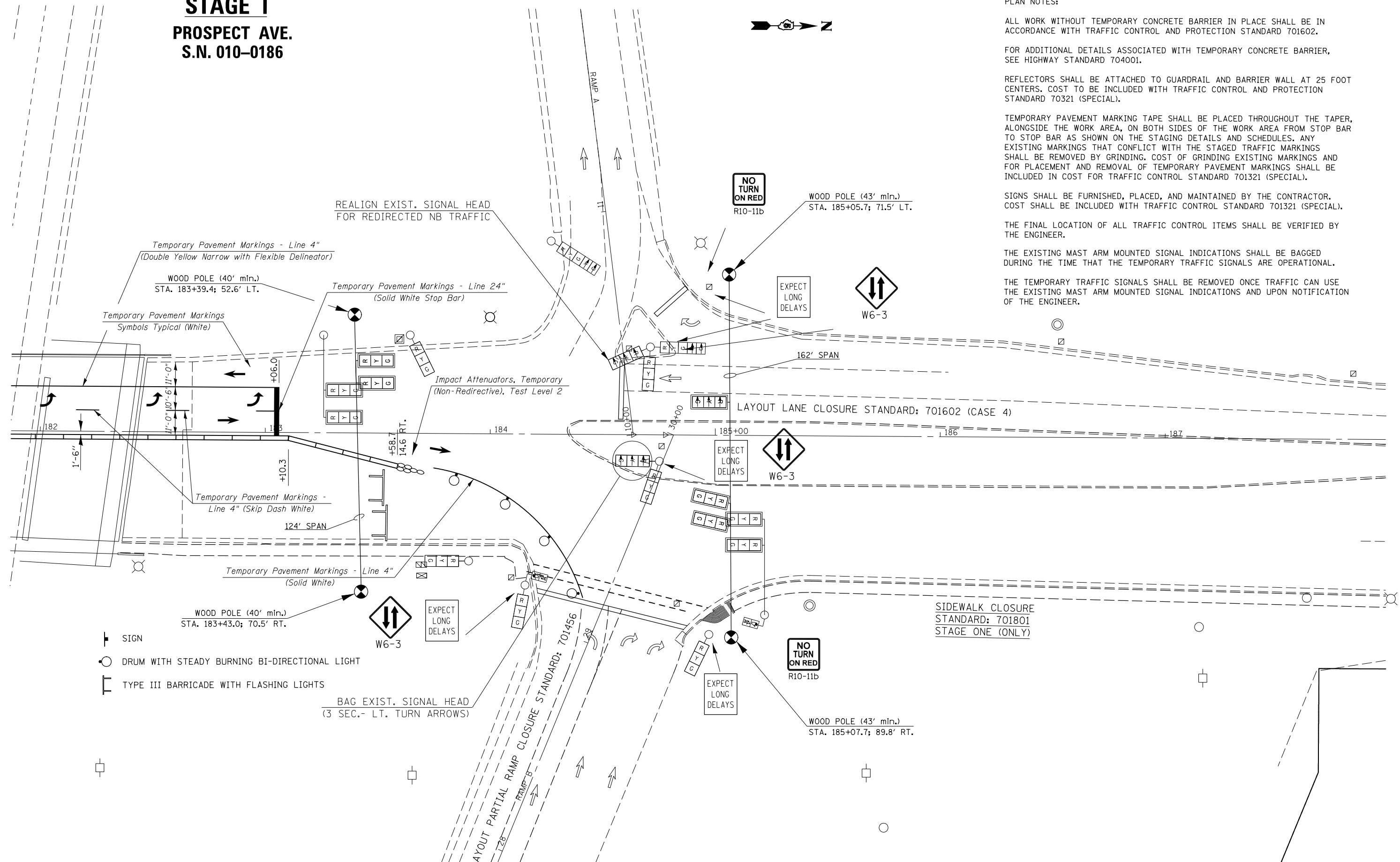
TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, ALONGSIDE THE WORK AREA, ON BOTH SIDES OF THE WORK AREA FROM STOP BAR TO STOP BAR AS SHOWN ON THE STAGING DETAILS AND SCHEDULES. ANY EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED BY GRINDING. COST OF GRINDING EXISTING MARKINGS AND FOR PLACEMENT AND REMOVAL OF TEMPORARY PAVEMENT MARKINGS SHALL BE INCLUDED IN COST FOR TRAFFIC CONTROL STANDARD 701321 (SPECIAL).

SIGNS SHALL BE FURNISHED, PLACED, AND MAINTAINED BY THE CONTRACTOR. COST SHALL BE INCLUDED WITH TRAFFIC CONTROL STANDARD 701321 (SPECIAL).

THE FINAL LOCATION OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER.

THE EXISTING MAST ARM MOUNTED SIGNAL INDICATIONS SHALL BE BAGGED DURING THE TIME THAT THE TEMPORARY TRAFFIC SIGNALS ARE OPERATIONAL.

THE TEMPORARY TRAFFIC SIGNALS SHALL BE REMOVED ONCE TRAFFIC CAN USE THE EXISTING MAST ARM MOUNTED SIGNAL INDICATIONS AND UPON NOTIFICATION OF THE ENGINEER.



- ┆ SIGN
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- ┆ TYPE III BARRICADE WITH FLASHING LIGHTS

BAG EXIST. SIGNAL HEAD  
(3 SEC.- LT. TURN ARROWS)

MODEL: \\MODELNAME  
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PLOT DATE = 12/6/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION,  
STANDARD 701321 (SPECIAL)**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	10
CONTRACT NO. 70D15				
ILLINOIS FED. AID PROJECT				

**PLAN NOTES:**

ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER IN PLACE SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701602.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER, SEE HIGHWAY STANDARD 704001.

REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS. COST TO BE INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD 70321 (SPECIAL).

TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER, ALONGSIDE THE WORK AREA, ON BOTH SIDES OF THE WORK AREA FROM STOP BAR TO STOP BAR AS SHOWN ON THE STAGING DETAILS AND SCHEDULES. ANY EXISTING MARKINGS THAT CONFLICT WITH THE STAGED TRAFFIC MARKINGS SHALL BE REMOVED BY GRINDING. COST OF GRINDING EXISTING MARKINGS AND FOR PLACEMENT AND REMOVAL OF TEMPORARY PAVEMENT MARKINGS SHALL BE INCLUDED IN COST FOR TRAFFIC CONTROL STANDARD 701321 (SPECIAL).

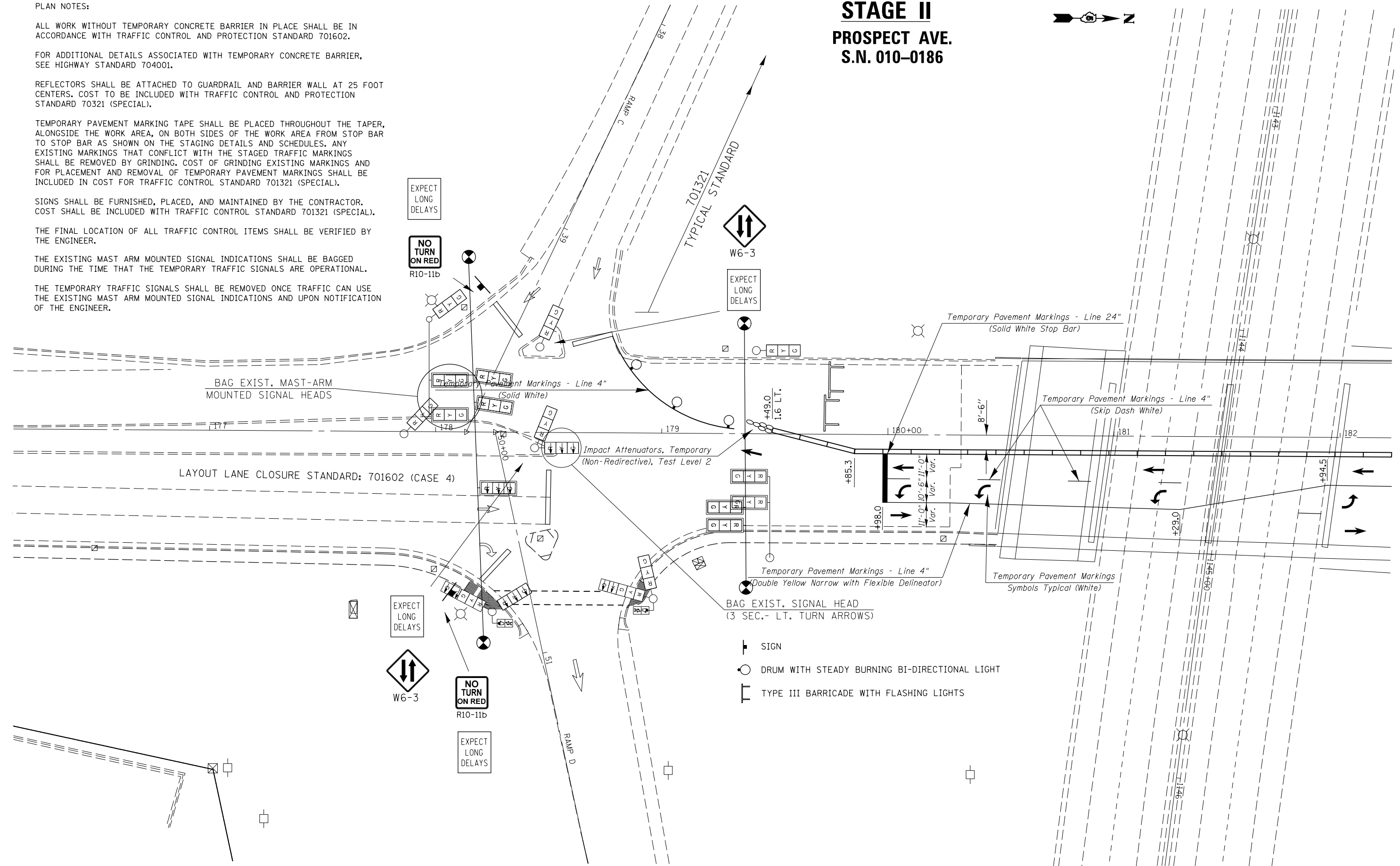
SIGNS SHALL BE FURNISHED, PLACED, AND MAINTAINED BY THE CONTRACTOR. COST SHALL BE INCLUDED WITH TRAFFIC CONTROL STANDARD 701321 (SPECIAL).

THE FINAL LOCATION OF ALL TRAFFIC CONTROL ITEMS SHALL BE VERIFIED BY THE ENGINEER.

THE EXISTING MAST ARM MOUNTED SIGNAL INDICATIONS SHALL BE BAGGED DURING THE TIME THAT THE TEMPORARY TRAFFIC SIGNALS ARE OPERATIONAL.

THE TEMPORARY TRAFFIC SIGNALS SHALL BE REMOVED ONCE TRAFFIC CAN USE THE EXISTING MAST ARM MOUNTED SIGNAL INDICATIONS AND UPON NOTIFICATION OF THE ENGINEER.

**STAGE II  
PROSPECT AVE.  
S.N. 010-0186**



MODEL: \\MODELNAME  
 FILE: \\NAME.PLOT  
 PROJECT: \\PROJECTNAME  
 OFFICE: \\OFFICE  
 DATE: 12/6/2018

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PLOT DATE = 12/6/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION,  
STANDARD 701321 (SPECIAL)**

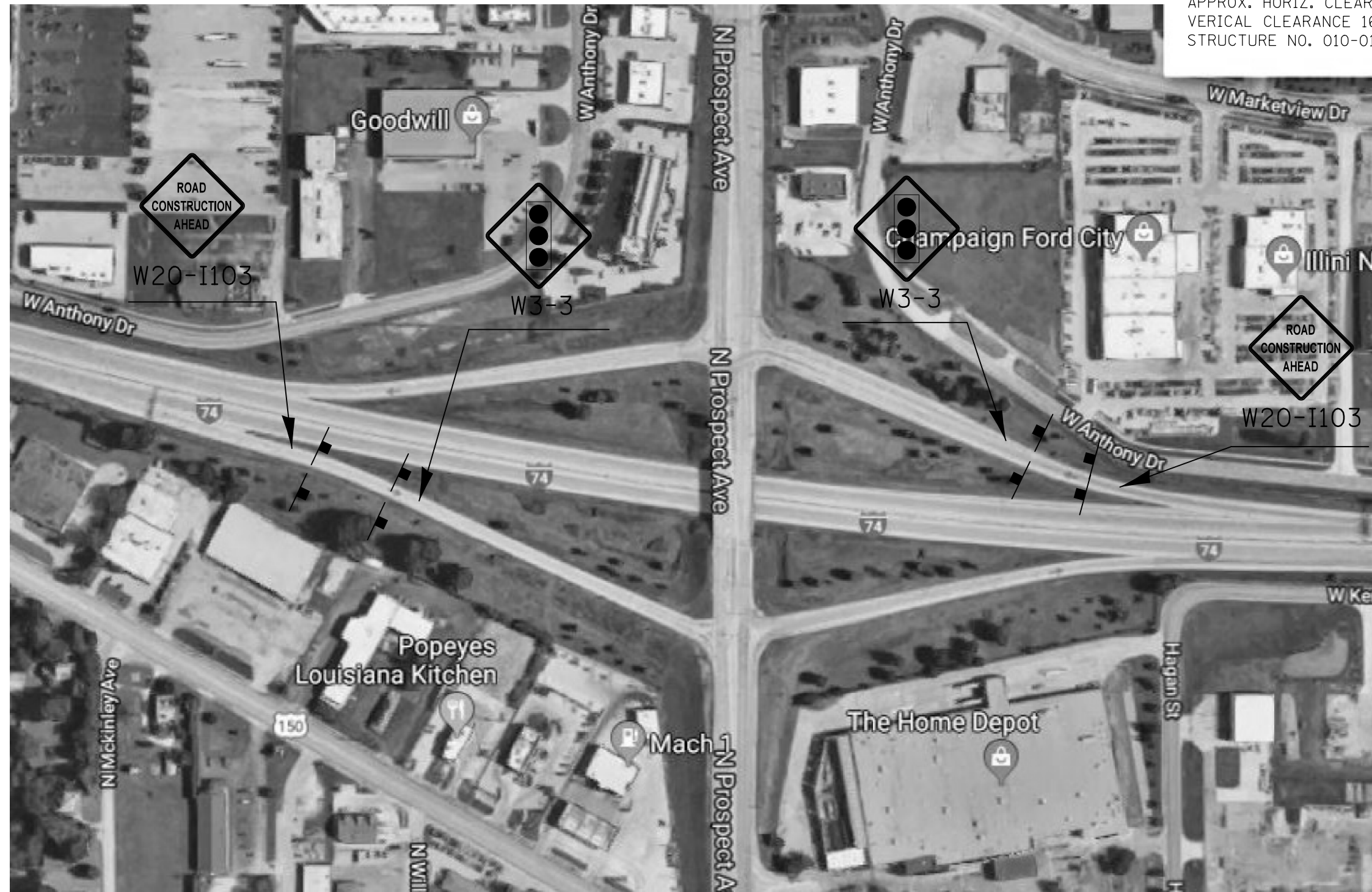
SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	11
CONTRACT NO. 70D15				
ILLINOIS FED. AID PROJECT				



**S.N. 010-0186**  
**TRAFFIC CONTROL & PROTECTION**  
**STANDARD 701321 (SPECIAL)**

⊥ STAION 1146+59.52 (FAI-74)  
 SKEW 7°41'  
 APPROX. LENGTH 190'-2"  
 (BACK TO BACK ABUTMENTS)  
 APPROX. HORIZ. CLEARANCE 76'-2<sup>7</sup>/<sub>8</sub>" - 81'-11<sup>3</sup>/<sub>4</sub>"  
 VERICAL CLEARANCE 16'-9" - 17'-2"  
 STRUCTURE NO. 010-0186



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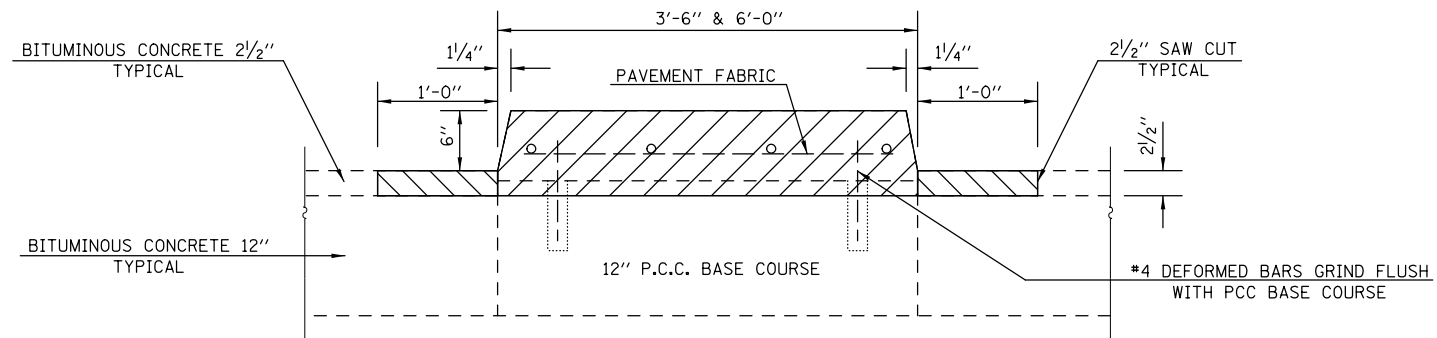
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION,**  
**STANDARD 701321 (SPECIAL)**

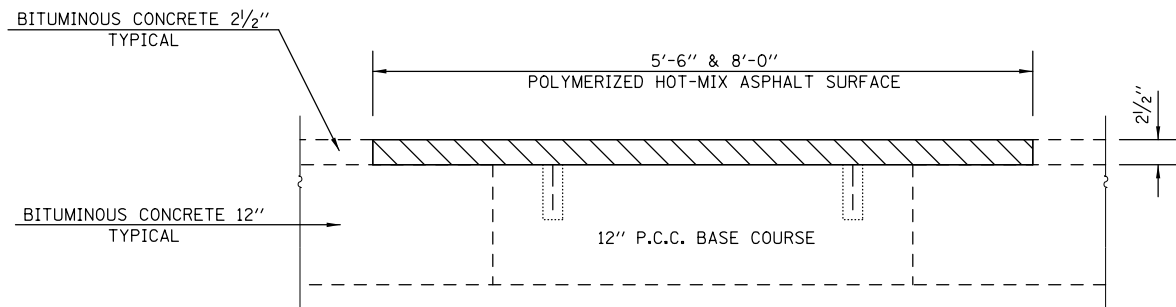
SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	13
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				

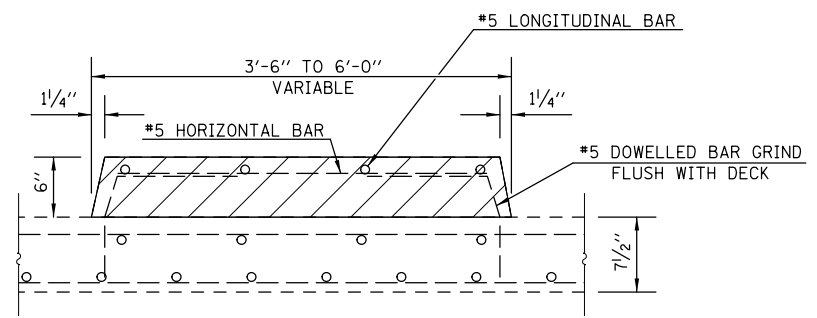
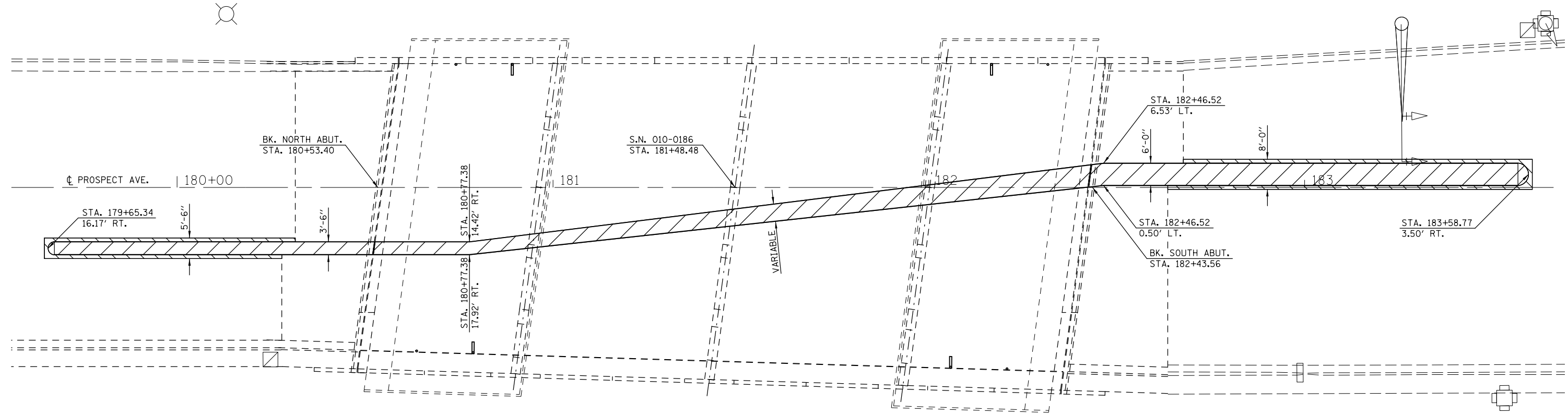
# CONCRETE MEDIAN REMOVAL



CONCRETE MEDIAN REMOVAL (PAVEMENT)



PRE-STAGE CONSTRUCTION (OVERLAY)



CONCRETE MEDIAN REMOVAL (DECK/APPROACH)

- CONCRETE MEDIAN REMOVAL
- HOT -MIX ASPHALT SURFACE REMOVAL, 2 1/2" & POLYMERIZED HOT-MIX ASPHALT SURFACE

## BILL OF MATERIALS

ITEM	UNIT	TOTAL
CONCRETE MEDIAN REMOVAL	SQ FT	1,874.0
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	17.0
HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	37.0

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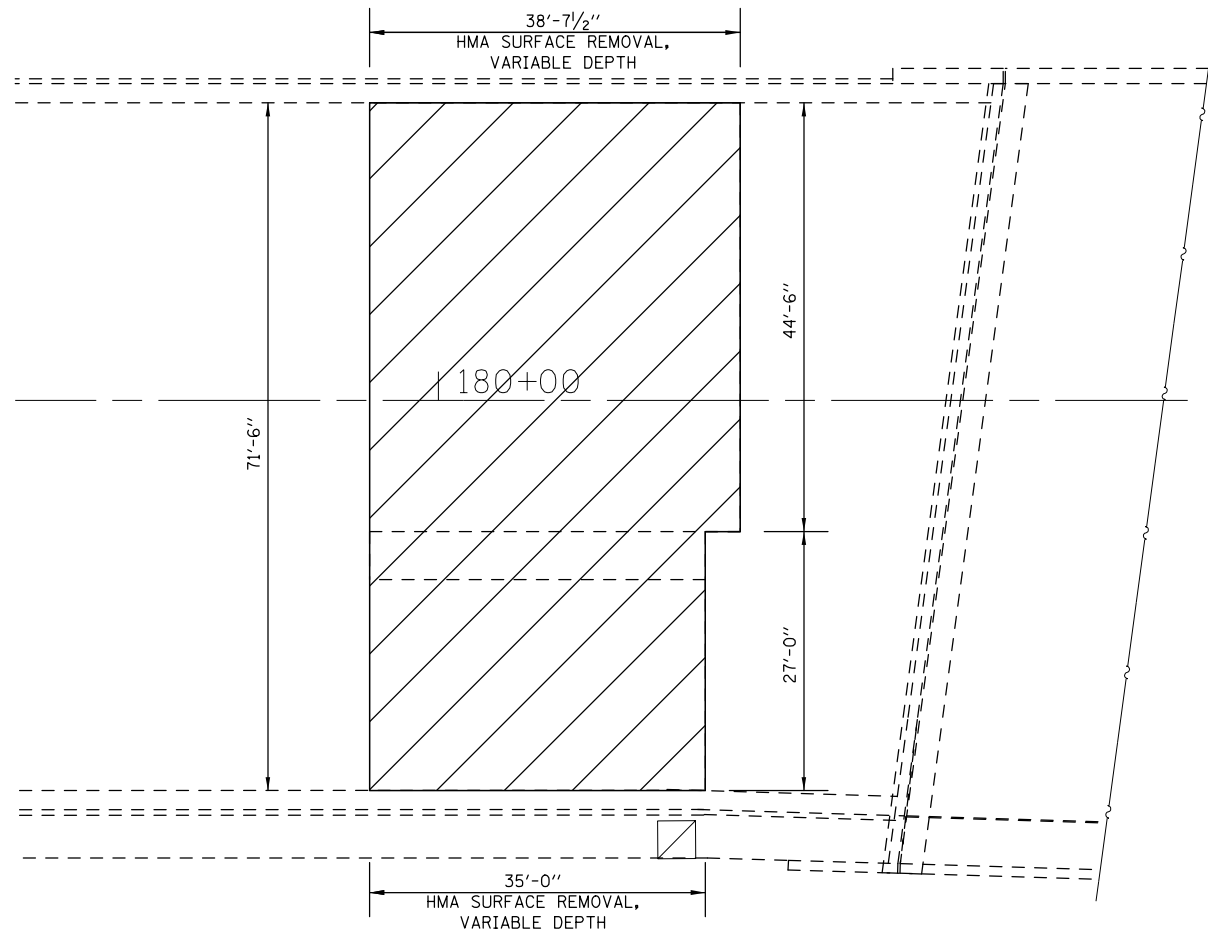
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	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

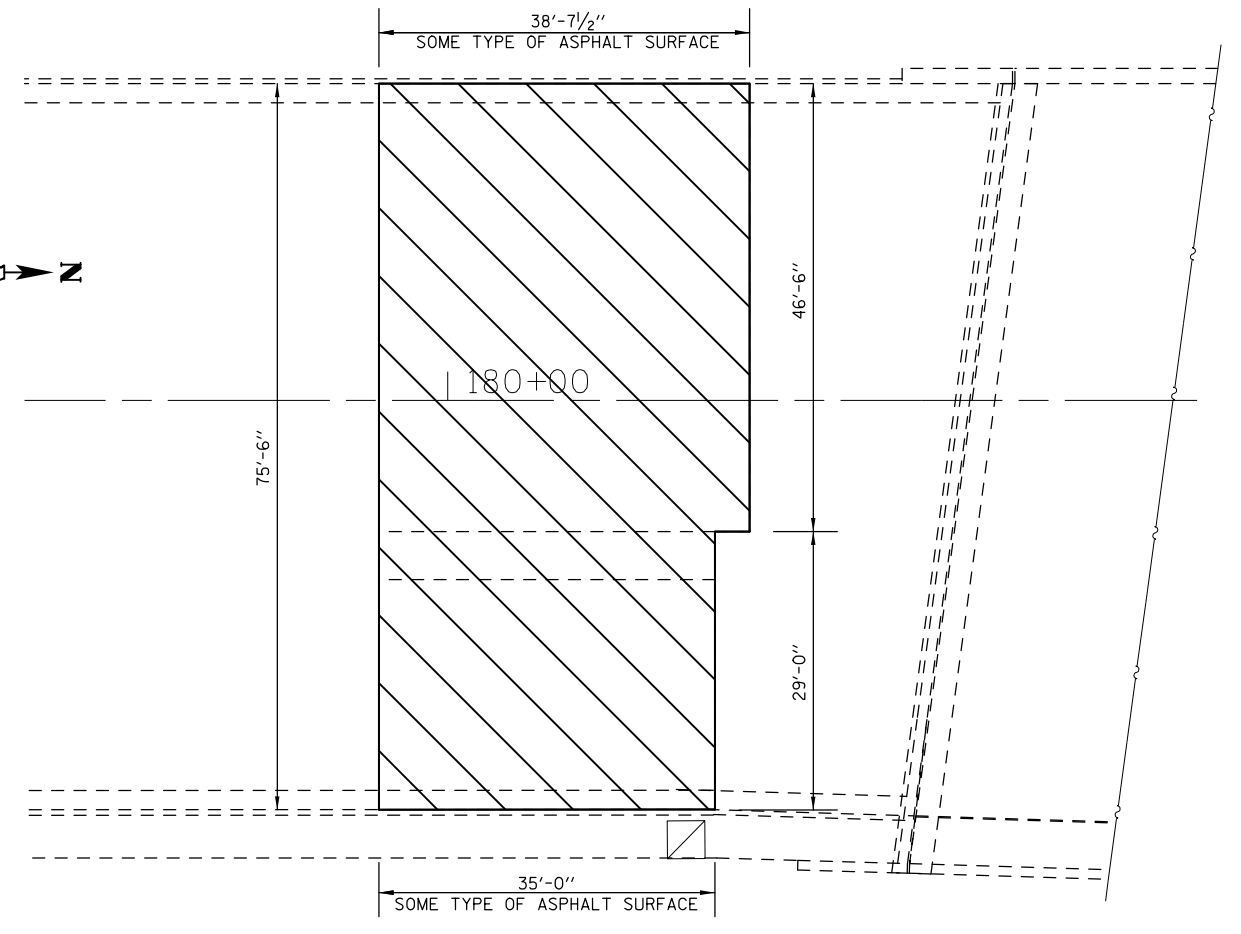
CONCRETE MEDIAN REMOVAL  
S.N. 010-0186

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

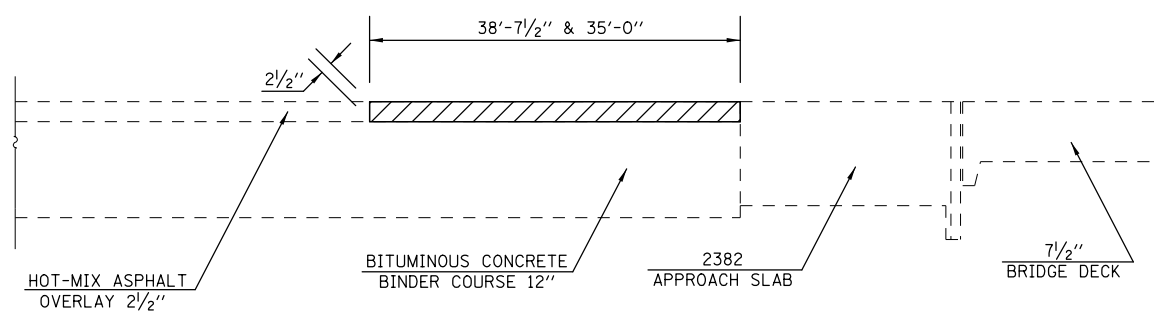
F.A.I. RTE. 74	SECTION (14-HB)BDR	COUNTY CHAMPAIGN	TOTAL SHEETS 66	SHEET NO. 14
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70D15	



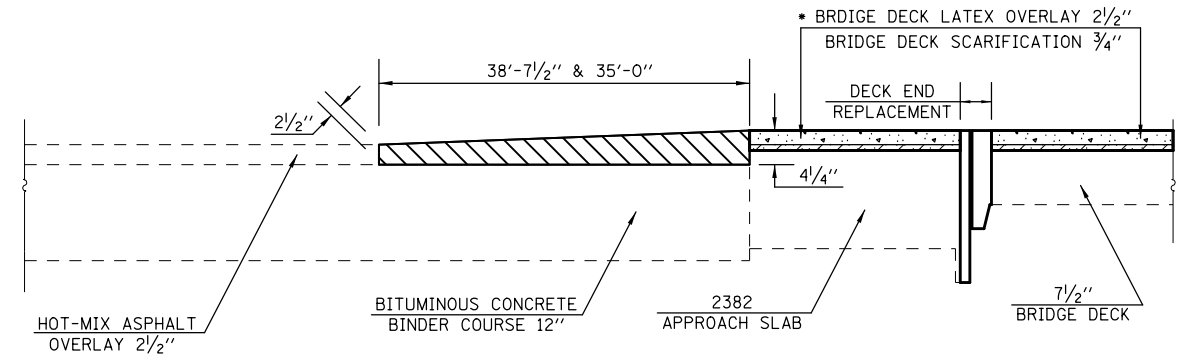
**EXISTING PLAN - SOUTH APPROACH**



**PROPOSED PLAN - SOUTH APPROACH**



**EXISTING ELEVATION - SOUTH APPROACH**



**PROPOSED ELEVATION - SOUTH APPROACH**

**LEGEND:**

- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N70

**NOTE:**

- \* PRIOR TO 1/4" DIAMOND GRINDING
- PAVER ELECTRONIC GRADE CONTROL SHALL BE OPERATED FROM A PRESET GRADE CONTROL STRINGLINE, SEE ARTICLE 406.06(e)

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	296.0
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N70	TON	17.0

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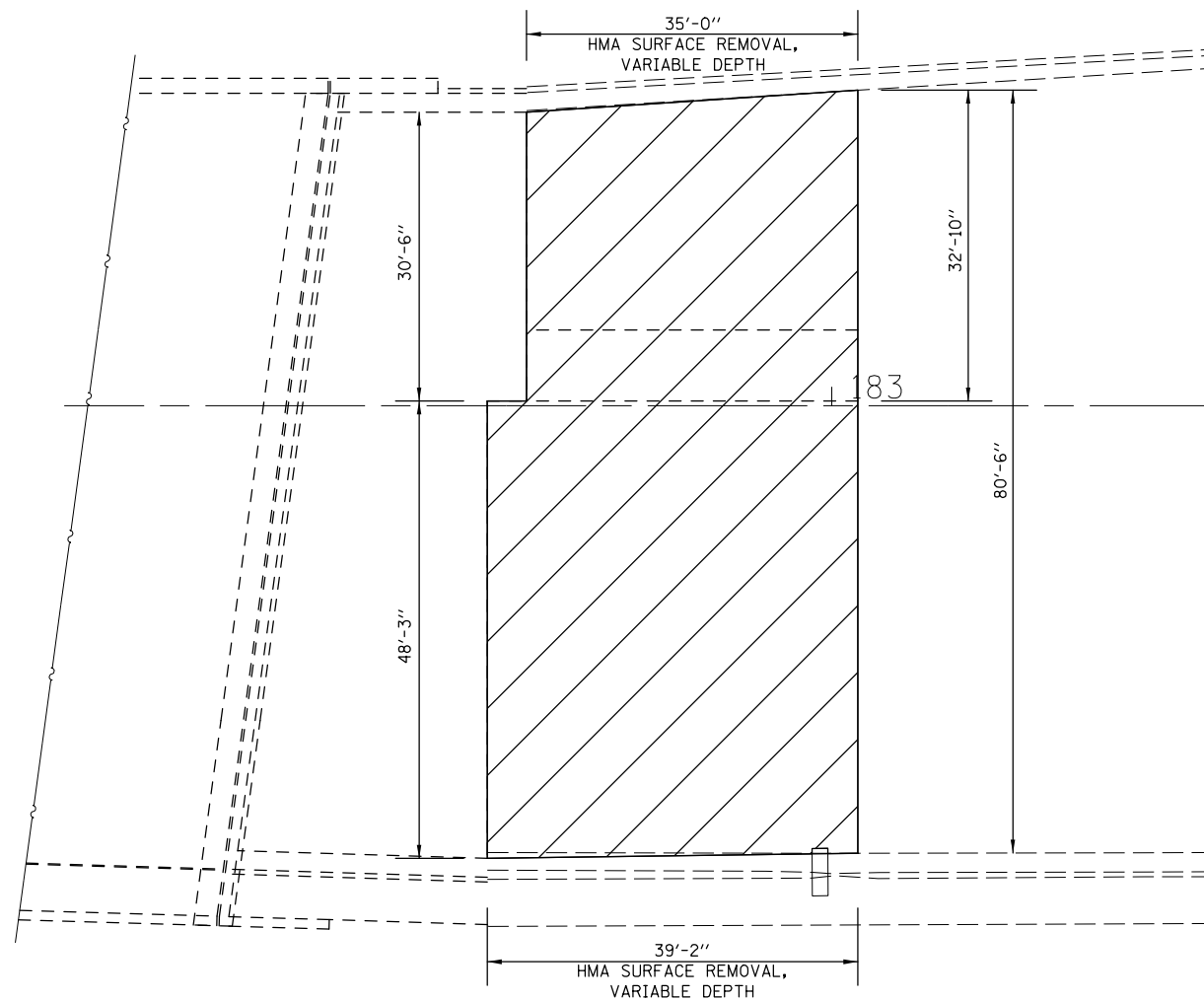
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

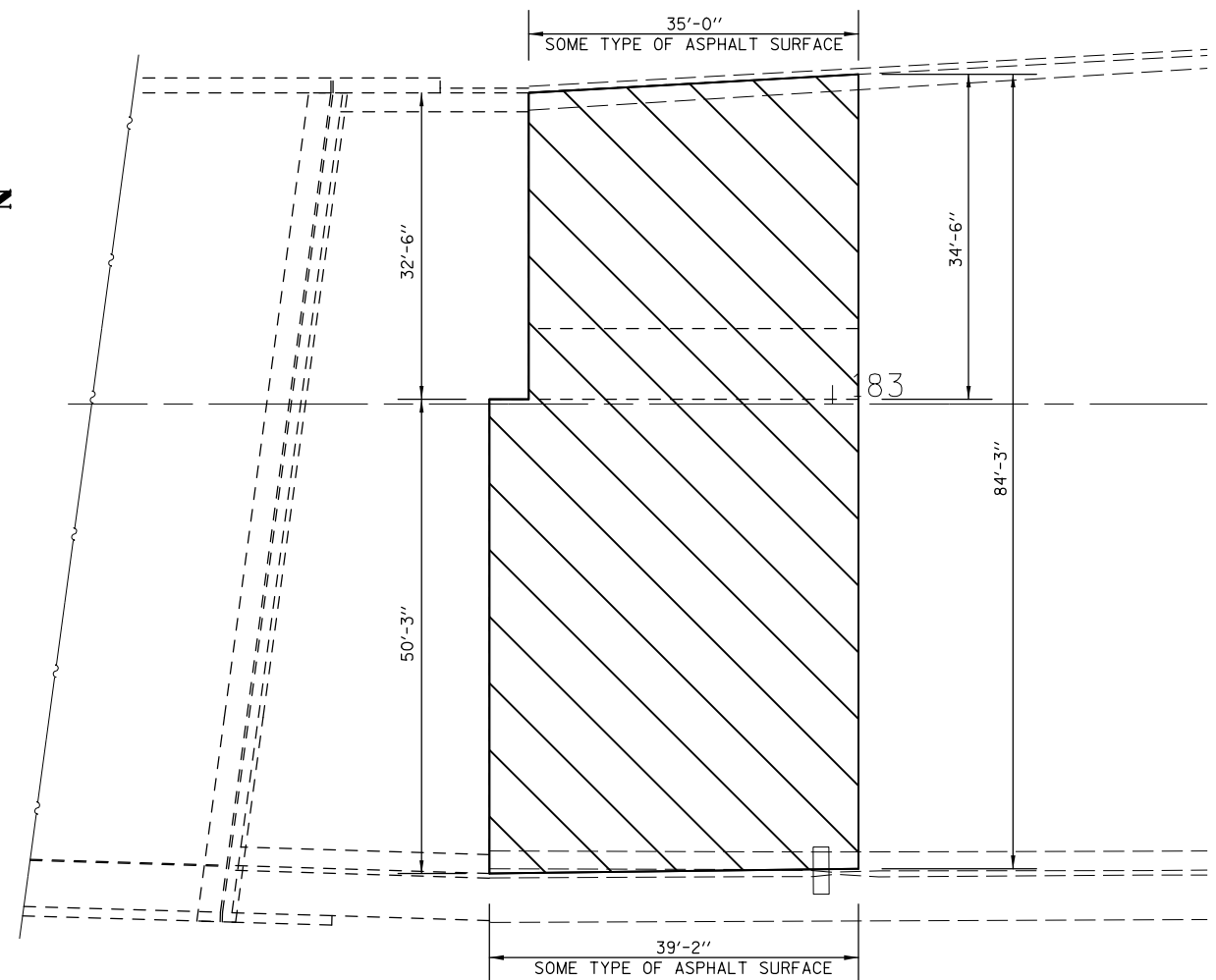
**APPROACH TRANSITION DETAILS  
S.N. 010-0186**

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

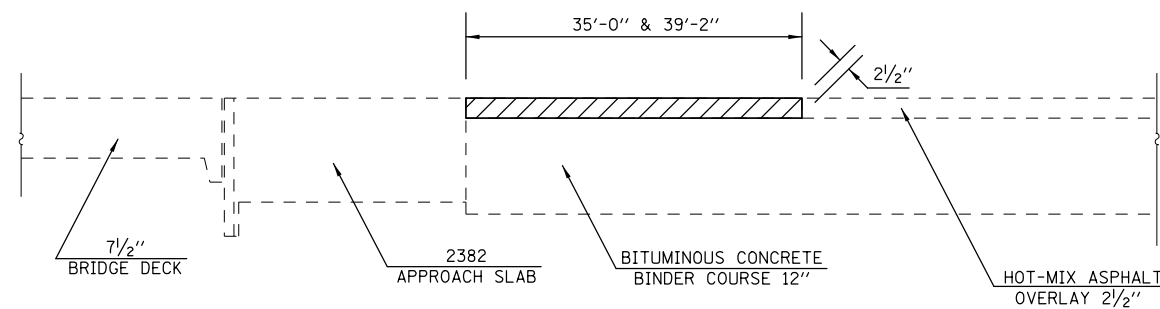
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	15
CONTRACT NO. 70D15				
ILLINOIS FED. AID PROJECT				



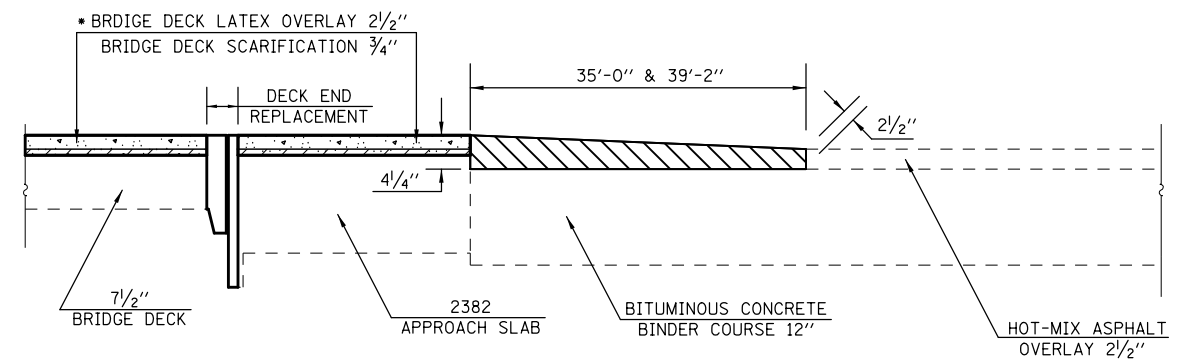
**EXISTING PLAN - NORTH APPROACH**



**PROPOSED PLAN - NORTH APPROACH**



**EXISTING ELEVATION - NORTH APPROACH**



**PROPOSED ELEVATION - NORTH APPROACH**

**LEGEND:**

- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N70

**NOTE:**

- \* PRIOR TO 1/4" DIAMOND GRINDING
- PAVER ELECTRONIC GRADE CONTROL SHALL BE OPERATED FROM A PRESET GRADE CONTROL STRINGLINE, SEE ARTICLE 406.06(e)

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	334.0
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N70	TON	17.0

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PLOT DATE = 12/6/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

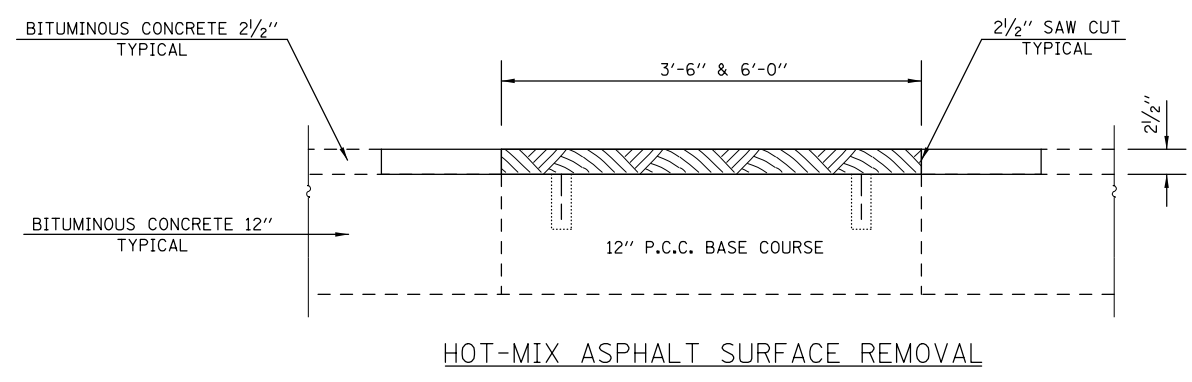
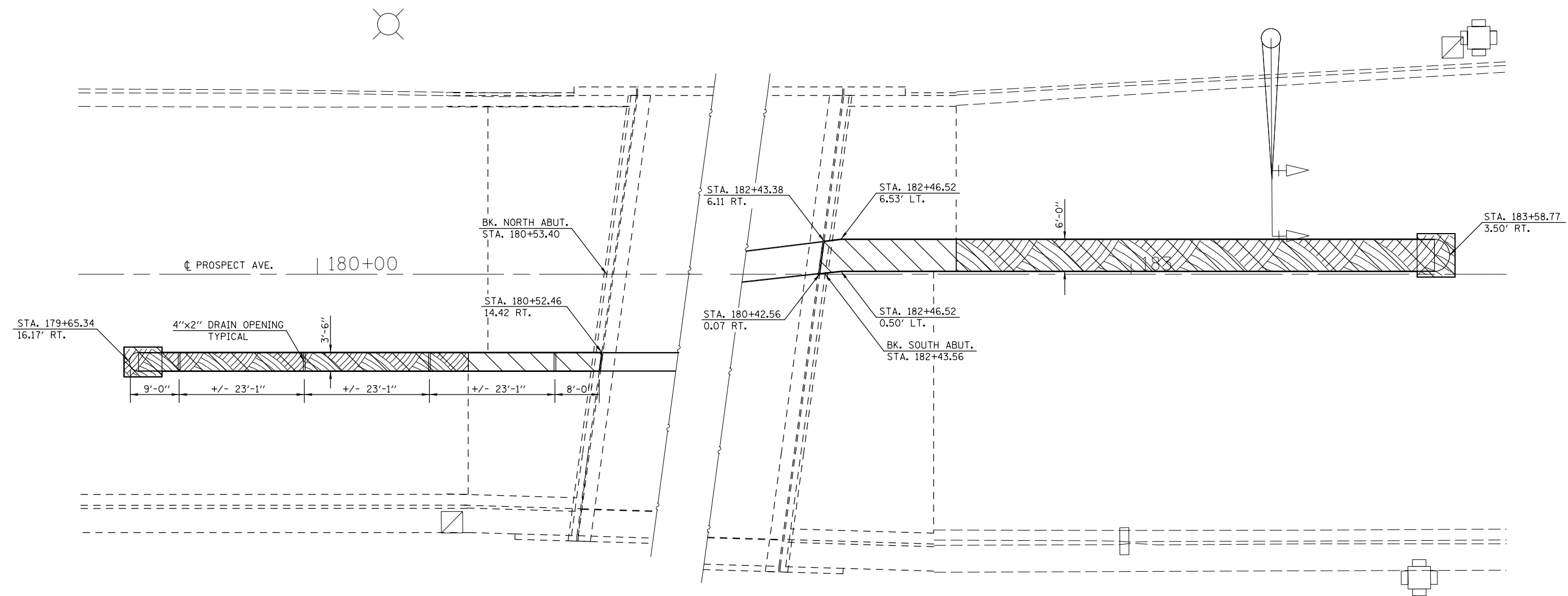
**APPROACH TRANSITION DETAILS  
S.N. 010-0186**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	16
			CONTRACT NO. 70D15	
		ILLINOIS	FED. AID PROJECT	



# CONCRETE MEDIAN, TYPE SB (SPECIAL)



**NOTE**  
SEE SHEET 19 FOR MEDIAN DETAILS

- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- CONCRETE MEDIAN TYPE SB (SPECIAL)

### BILL OF MATERIALS

ITEM	UNIT	TOTAL
HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	90.0
CONCRETE MEDIAN, TYPE SB (SPECIAL)	SQ FT	996.0

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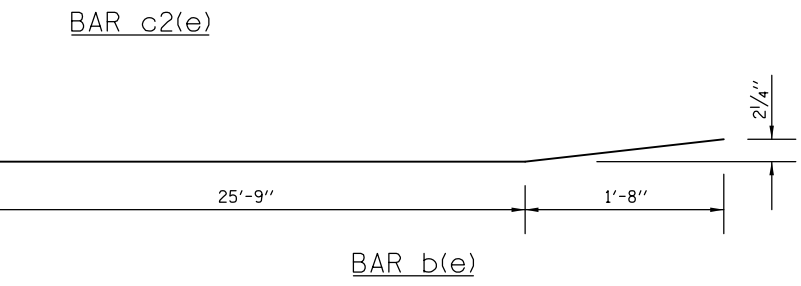
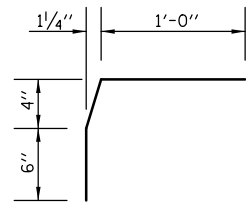
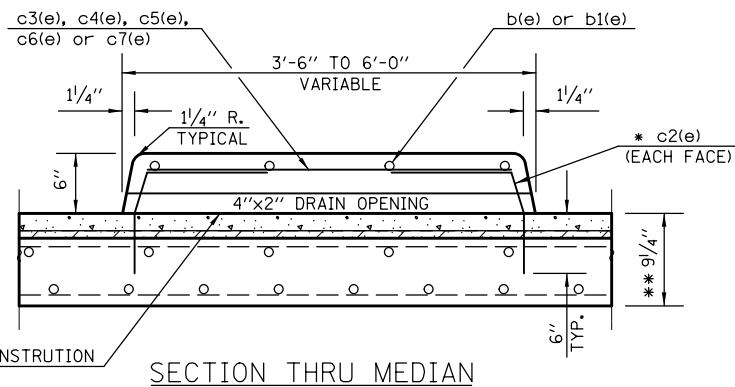
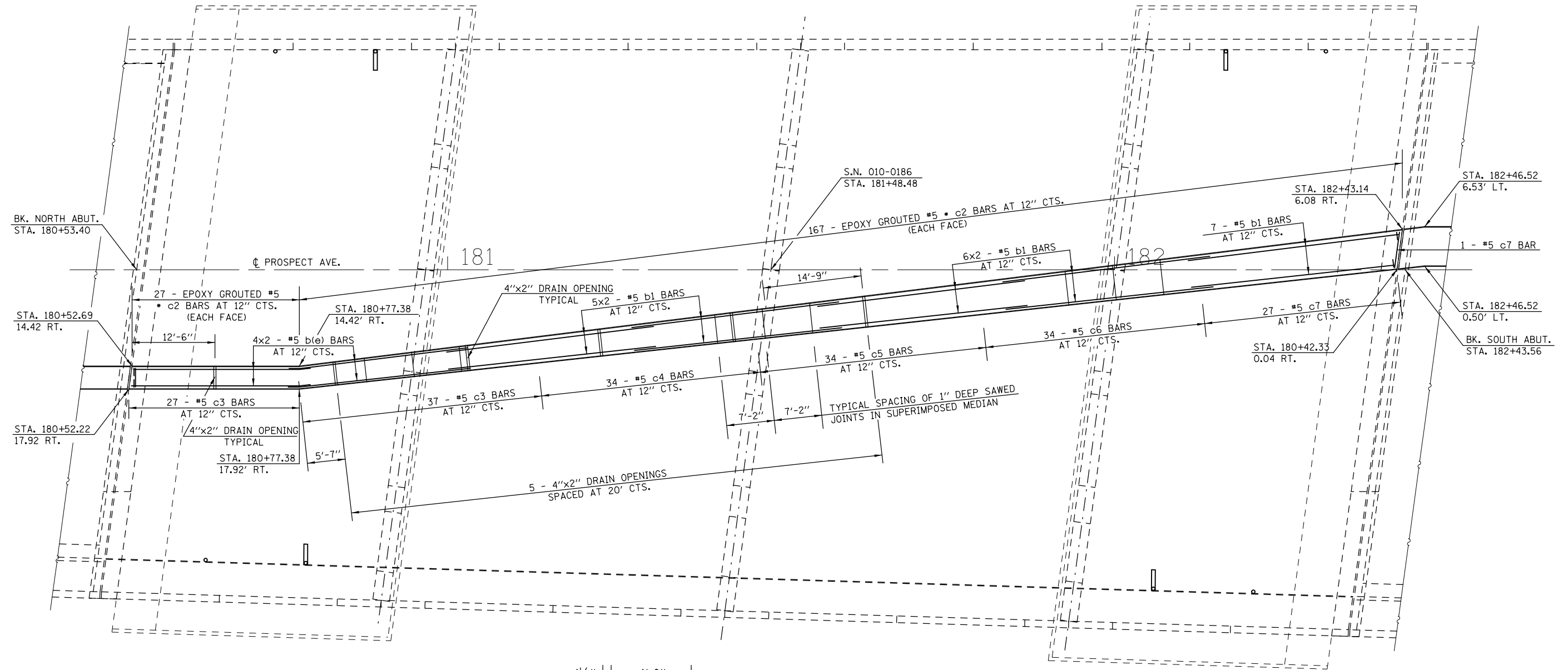
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE MEDIAN, TYPE SB (SPECIAL)  
S.N. 010-0186**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	17
CONTRACT NO. 70D15				
ILLINOIS FED. AID PROJECT				

# CONCRETE MEDIAN, TYPE SB (SPECIAL)



**NOTE**  
 MINIMUM BAR LAP #5 BAR = 3'-3"  
 \* EPOXY GROUT #5 c2(e) BARS IN ACCORDANCE WITH ARTICLE 584 OF THE STANDARD SPECIFICATIONS. COST INCLUDED WITH REINFORCEMENT BARS, EPOXY COATED.  
 \*\* PRIOR TO 1/4" DIAMOND GRINDING

## BILL OF MATERIALS

BAR	NO.	SIZE	LENGTH	SHAPE	
b(e)	8	#5	31'-3"		
b1(E)	29	#5	30'-0"		
c2(E)	388	#5	1'-10"		
c3(E)	64	#5	3'-3"		
c4(E)	34	#5	3'-9"		
c5(E)	34	#5	4'-3"		
c6(E)	34	#5	4'-9"		
c7(E)	28	#5	5'-3"		
<b>ITEM</b>				<b>UNIT</b>	<b>TOTAL</b>
REINFORCEMENT BARS (EPOXY COATED)				POUND	2,733.0
CONCRETE MEDIAN, TYPE SB (SPECIAL)				SQ FT	878.0

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 PROJECT: \\PROJECT  
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 DATE: 12/6/2018

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PLOT SCALE = 40.0000' / in.	DRAWN - ESS	REVISED -
PLOT DATE = 12/6/2018	CHECKED - TJB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE MEDIAN, TYPE SB (SPECIAL)  
S.N. 010-0186**

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

F.A.I. RTE. 74	SECTION (14-HB)BDR	COUNTY CHAMPAIGN	TOTAL SHEETS 66	SHEET NO. 18
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				

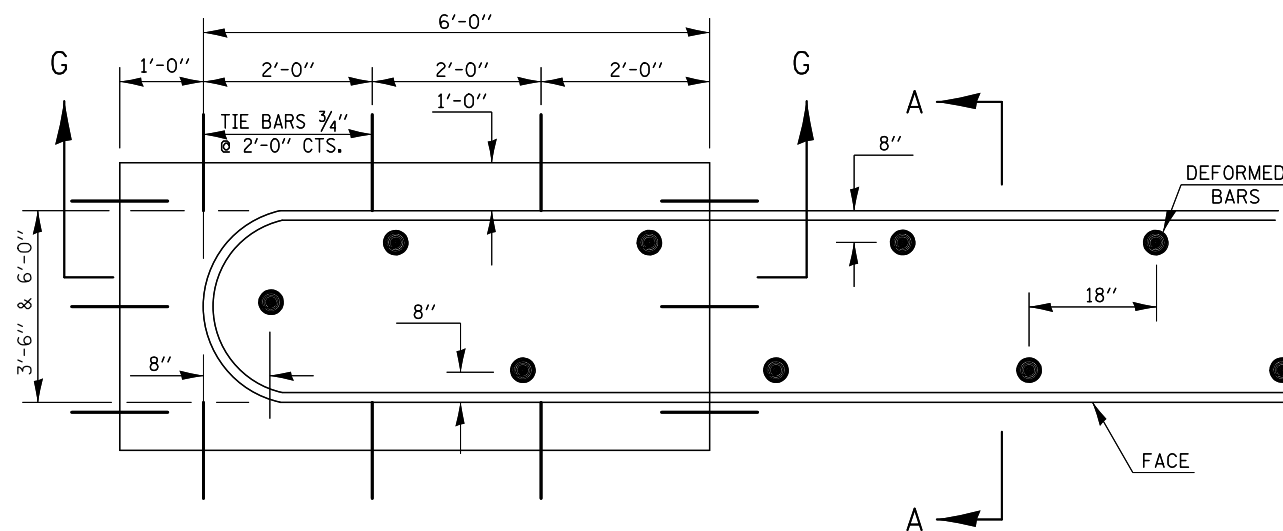
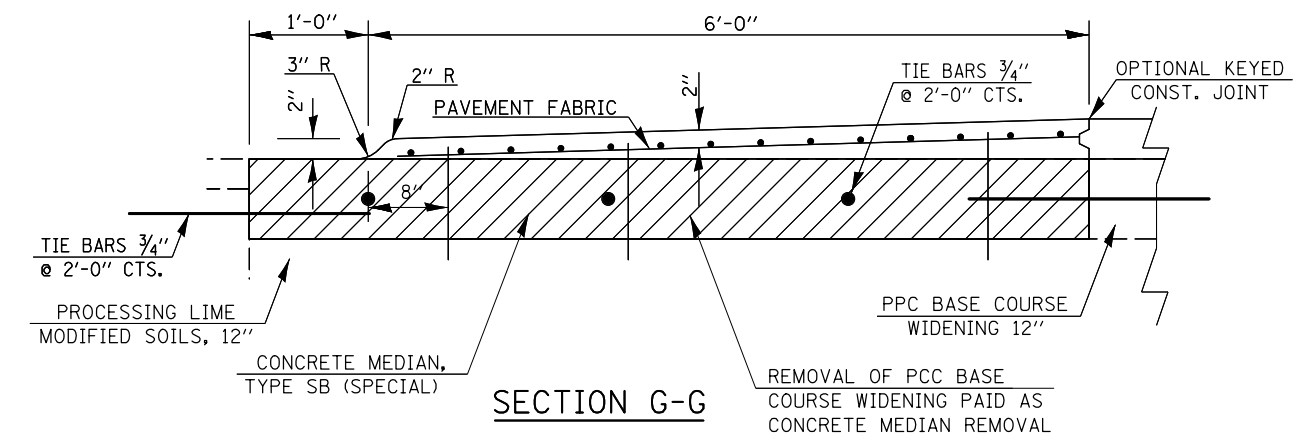
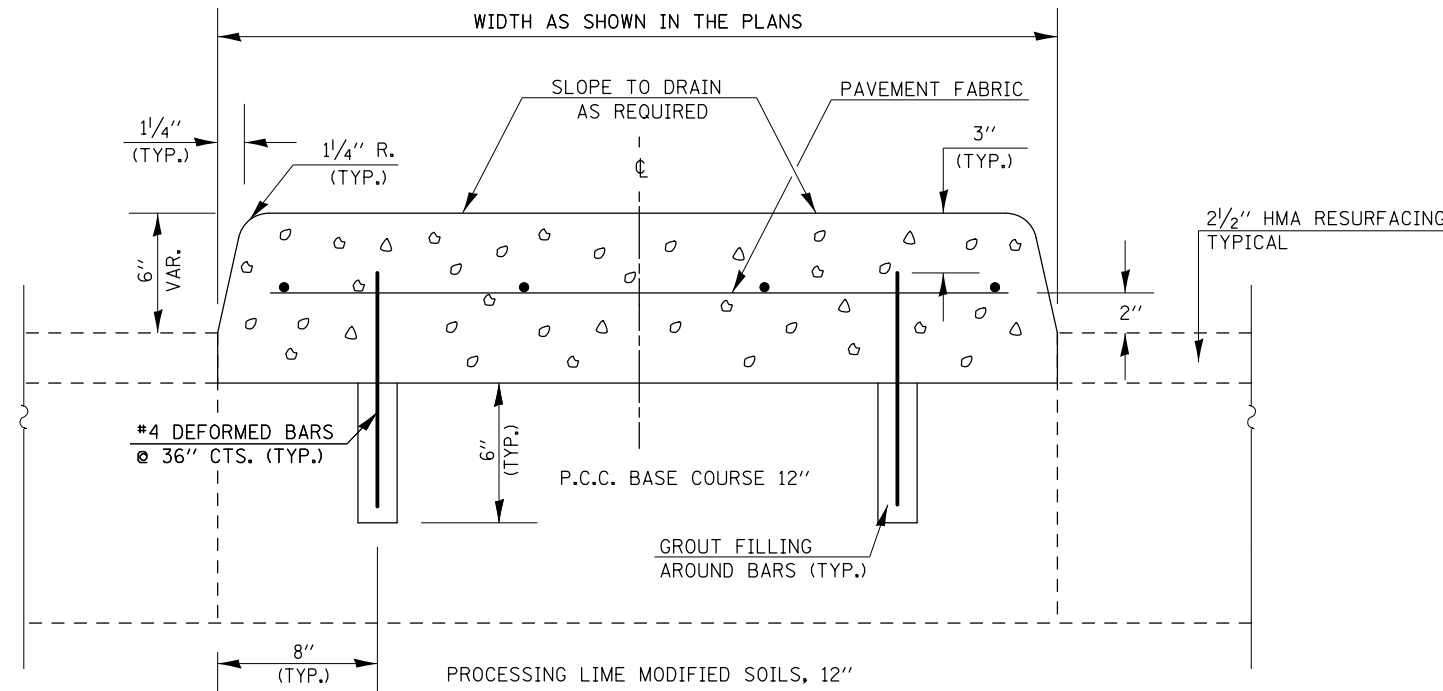
## GENERAL NOTES

1. DEFORMED BARS @ 36" CTS. OR AS DIRECTED BY THE ENGINEER. EPOXY GROUT BARS IN 6" MIN. HOLES ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS.
2. CONCRETE MEDIAN, TYPE SB (SPECIAL), SHALL INCLUDE THE COST OF FURNISHING AND INSTALLING THE DEFORMED BARS, TIE BARS, EPOXY GROUT, PAVEMENT FABRIC, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

### ESTIMATE OF QUANTITIES

#### TOTAL FOR TRANSITION MEDIAN

ITEM	NO.	SIZE	LENGHT	SHAPE
DEFORMED BARS	135.0	#4	1'-0"	—
TIE BARS	24.0	3/4"	2'-0"	—
PAVEMENT FABRIC	100.0	SQ YD		



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PLOT DATE = 12/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONCRETE MEDIAN, TYPE SB (SPECIAL)  
S.N. 010-0186**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	19
CONTRACT NO. 70D15				
ILLINOIS FED. AID PROJECT				



PROPOSED IMPROVEMENTS

1. REMOVE DOWELLED MEDIAN.
2. COMPLETE BRIDGE DECK SCARIFICATION.
3. COMPLETE FULL-DEPTH DECK PATCHING, REMOVAL DECK ENDS, PARAPETS, AND HATCH BLOCKS.
4. COMPLETE STRUCTURAL REPAIR OF CONCRETE ON ABUTMENTS AND BACK WALL.
5. COMPLETE STRUCTURAL STEEL REPAIR, REPLACE BEARINGS AND END DIAPHRAGMS.
6. CAST DECK ENDS, PARAPET ENDS AND HATCH BLOCKS.
7. PLACE BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2".
8. COMPLETE MILLING TRANSITIONS AND HMA OVERLAY AT APPROACH ENDS.
9. COMPLETE DIAMOND GRINDING.
10. PLACE CONCRETE MEDIAN , TYPE SB (SPECIAL).
11. COMPLETE BRIDGE DECK GROOVING.

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
STONE RIPRAP CLASS A4	SQ YD	28.0
CONCRETE REMOVAL	CU YD	21.2
SLOPE WALL REMOVAL	SQ YD	28.0
PROTECTIVE SHIELD	SQ YD	971.0
CONCRETE SUPERSTRUCTURE	CU YD	23.9
PROTECTIVE COAT	SQ YD	2,067.0
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	11,630.0
REINFORCEMENT BARS (EPOXY COATED)	POUND	5,670.0
BAR SPLICERS	EACH	24.0
PREFORMED JOINT STRIP SEAL	FOOT	174.0
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	30.0
ANCHOR BOLTS 1"	EACH	60.0
BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,848.0
CONCRETE MEDIAN, TYPE SB (SPECIAL)	SQ FT	1,874.0
JACK AND REMOVE EXISTING BEARINGS	EACH	30.0
STRUCTURAL STEEL REMOVAL	POUND	7,210.0
STRUCTURAL STEEL REPAIR	POUND	8,600.0
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2"	SQ YD	2,019.0
BRIDGE DECK SCARIFICATION 3/4"	SQ YD	2,019.0
STRUCTURAL REPAIR OF CONCRETE (DEPTH = OR < 5 INCHES)	SQ FT	155.0
DECK SLAB REPAIR (FULL-DEPTH, TY I)	SQ YD	17.0
DECK SLAB REPAIR (FULL-DEPTH, TY II)	SQ YD	17.0
DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	4.0
DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1,881.0
TEMPORARY SHORING AND CRIBBING	EACH	9.0

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

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 INCLUDED WITH CONCRETE REMOVAL.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STD. SPECS. WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° F.

THE RAIL POSTS WITHIN THE PARAPET REPAIR AND REMOVAL AND REPLACEMENT LIMITS SHALL BE REMOVED TO ALLOW FOR THE REPAIR WORK TO BE COMPLETED. FOLLOWING COMPLETION OF THE PARAPET ENDS, THE CONTRACTOR TO EITHER SAVE AND REUSE THE EXISTING CAST-IN-PLACE ANCHOR SYSTEM OR USE EPOXY-GROUTED THREADED RODS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONCRETE SUPERSTRUCTURES. SEE AS-BUILT PLANS FOR ALUMINUM RAILING DETAIL.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH THE CONCRETE. TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL AND THE COST WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

SYNTHETIC FIBERS SHALL BE ADDED TO THE BRIDGE DECK LATEX CONCRETE OVERLAY, SEE SPECIAL PROVISIONS.

ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270, GR. 36, UNLESS OTHERWISE NOTED.

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

EXISTING STRUCTURAL STEEL THAT WILL BE IN CONTACT WITH NEW STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED PRIOR TO ERECTION AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING CONTACT SURFACE AREAS OF EXISTING STEEL STRUCTURES".

ALL STRUCTURAL STEEL AND BEARING ASSEMBLIES SHALL BE HOT DIPPED GALVANIZED. SEE SPECIAL PROVISIONS FOR "HOT DP GALVANIZING FOR STRUCTURAL STEEL".

AREAS OF DECK SLAB REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK SLAB REPAIRS ON AS- BUILT PLANS.

SEE SPECIAL PROVISION "DECK SLAB REPAIR" FOR ADDITIONAL REQUIREMENTS PERTAINING TO DECK SLAB REPAIR.

MODEL: I:\MODEL\NAME: FILE NAME: P:\CADD\BIDDING\TEC\Illinois\poc\p\70D15\CADD\BIDDING\Structures\70D15\_eht\_bridge\_plans.dgn  
 P:\Projects\70D15\CADD\BIDDING\Structures\70D15\_eht\_bridge\_plans.dgn

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	DRAWN -	REVISED -
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PLOT DATE = 1/18/2019	DATE -	REVISED -

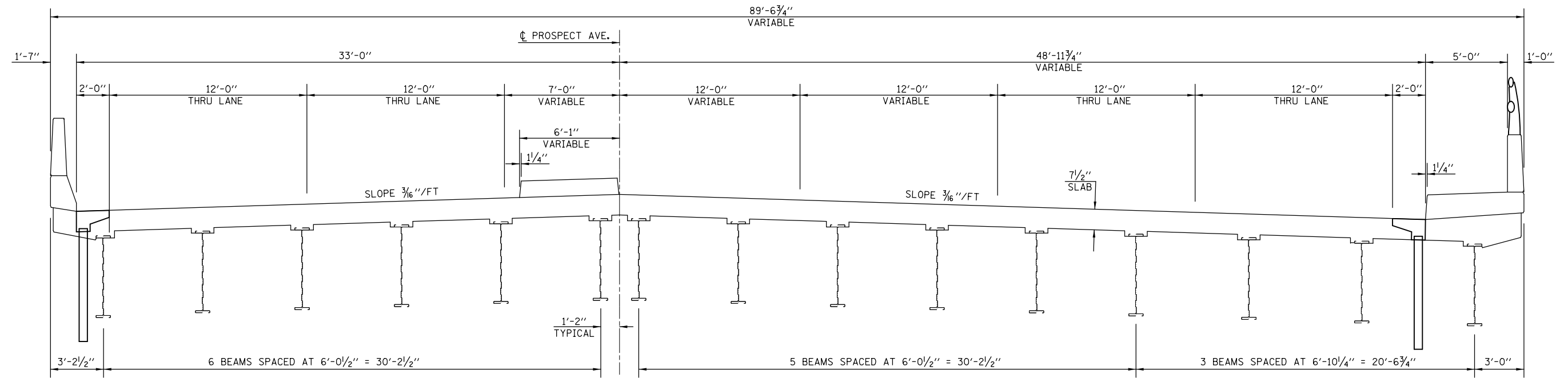
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOTAL BILL OF MATERIALS & GENERAL NOTES  
S.N. 010-0186**

SCALE: SHEET 2 OF 38 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	21
			CONTRACT NO. 70D15	
		ILLINOIS	FED. AID PROJECT	

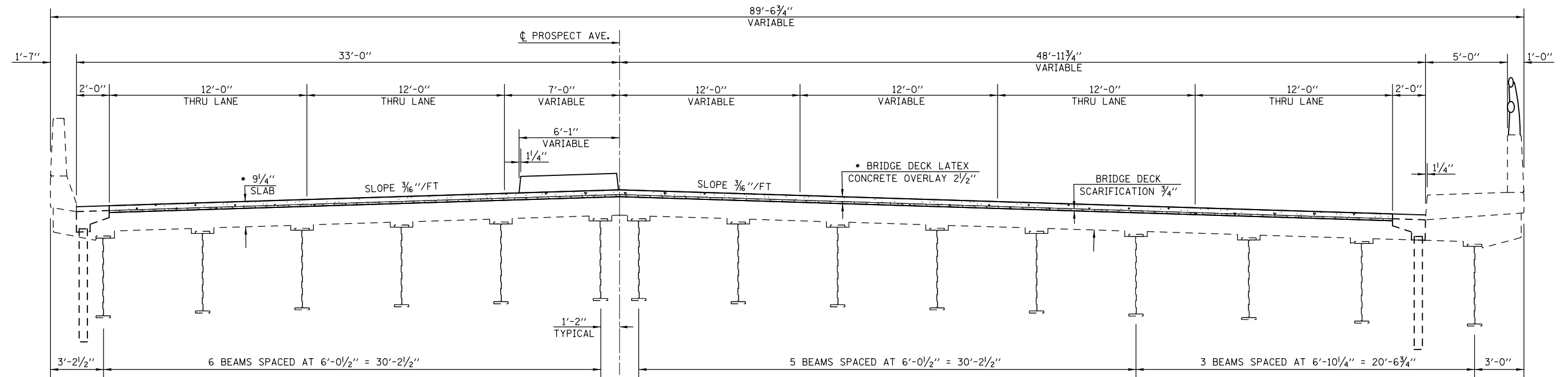
# EXISTING DECK CROSS SECTION NORTH ABUTMENT



LOOKING NORTH

# PROPOSED DECK CROSS SECTION NORTH ABUTMENT

• PRIOR TO 1/4" DIAMOND GRINDING



LOOKING NORTH

MODEL: \\MODELNAME  
FILE NAME: \\PUL@EED\NTEC\Illinois\gov\pww\DOT\Documents\DOT Office\Bldg\Structures\0570D15\_011\_bldg\_abnns.dgn

USER NAME = shawleres	DESIGNED - ESS	REVISED -
	DRAWN - ESS	REVISED -
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PLOT DATE = 12/6/2018	DATE -	REVISED -

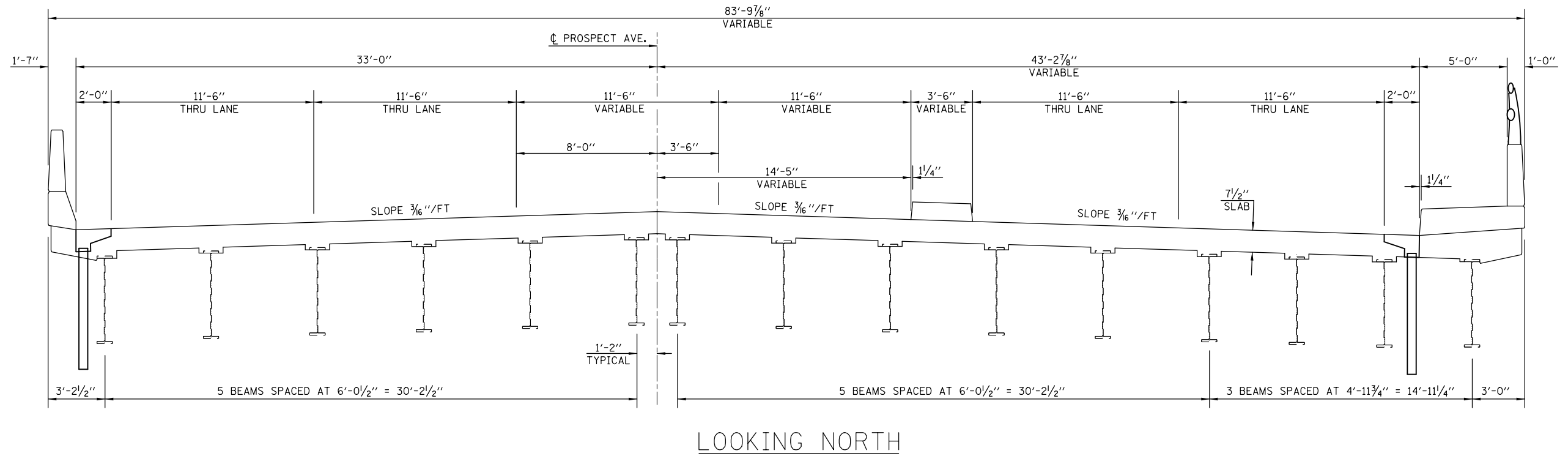
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DECK CROSS SECTIONS  
S.N. 010-0186**

SCALE: SHEET 3 OF 38 SHEETS STA. TO STA.

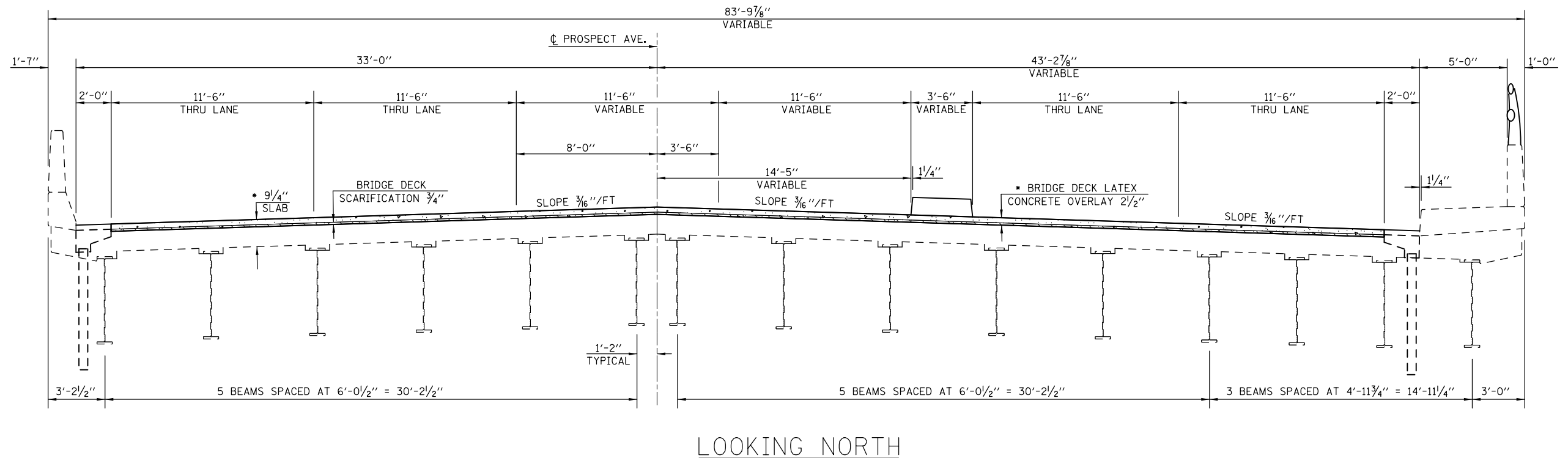
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	22
CONTRACT NO. 70D15				
ILLINOIS FED. AID PROJECT				

## EXISTING DECK CROSS SECTION SOUTH ABUTMENT



## PROPOSED DECK CROSS SECTION SOUTH ABUTMENT

• PRIOR TO 1/4" DIAMOND GRINDING



MODEL: \\MODELNAME FILE: \\NAME.PLOT DATE: 12/6/2018 PROJECT: \\PROJECTNAME

USER NAME = shawleres	DESIGNED - ESS	REVISED -
	DRAWN - ESS	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - TJB	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

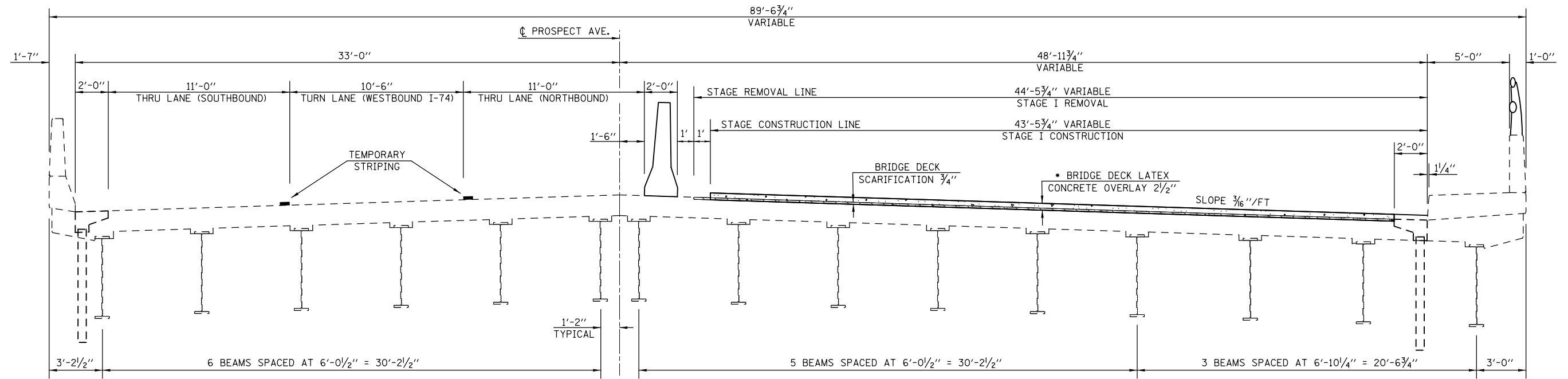
**DECK CROSS SECTIONS  
S.N. 010-0186**

SCALE: SHEET 4 OF 38 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	23
CONTRACT NO. 70D15				
ILLINOIS FED. AID PROJECT				

# STAGE ONE CONSTRUCTION NORTH ABUTMENT

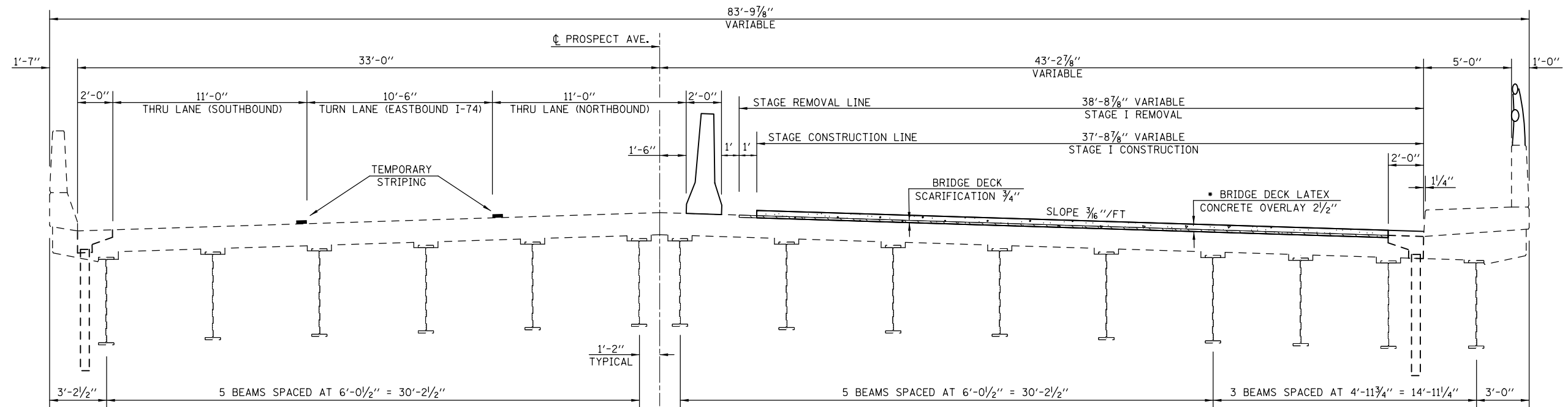
• PRIOR TO 1/4" DIAMOND GRINDING



LOOKING NORTH

# STAGE ONE CONSTRUCTION SOUTH ABUTMENT

• PRIOR TO 1/4" DIAMOND GRINDING



LOOKING NORTH

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FILE: \\NAME: \\PROJECTS\0570D15\CADD\DATA\Structures\0570D15\_eht\_bridge\_abutms.dgn

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PLOT DATE = 12/6/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STAGE I CONSTRUCTION DETAILS  
S.N. 010-0186

SCALE: SHEET 5 OF 38 SHEETS STA. TO STA.

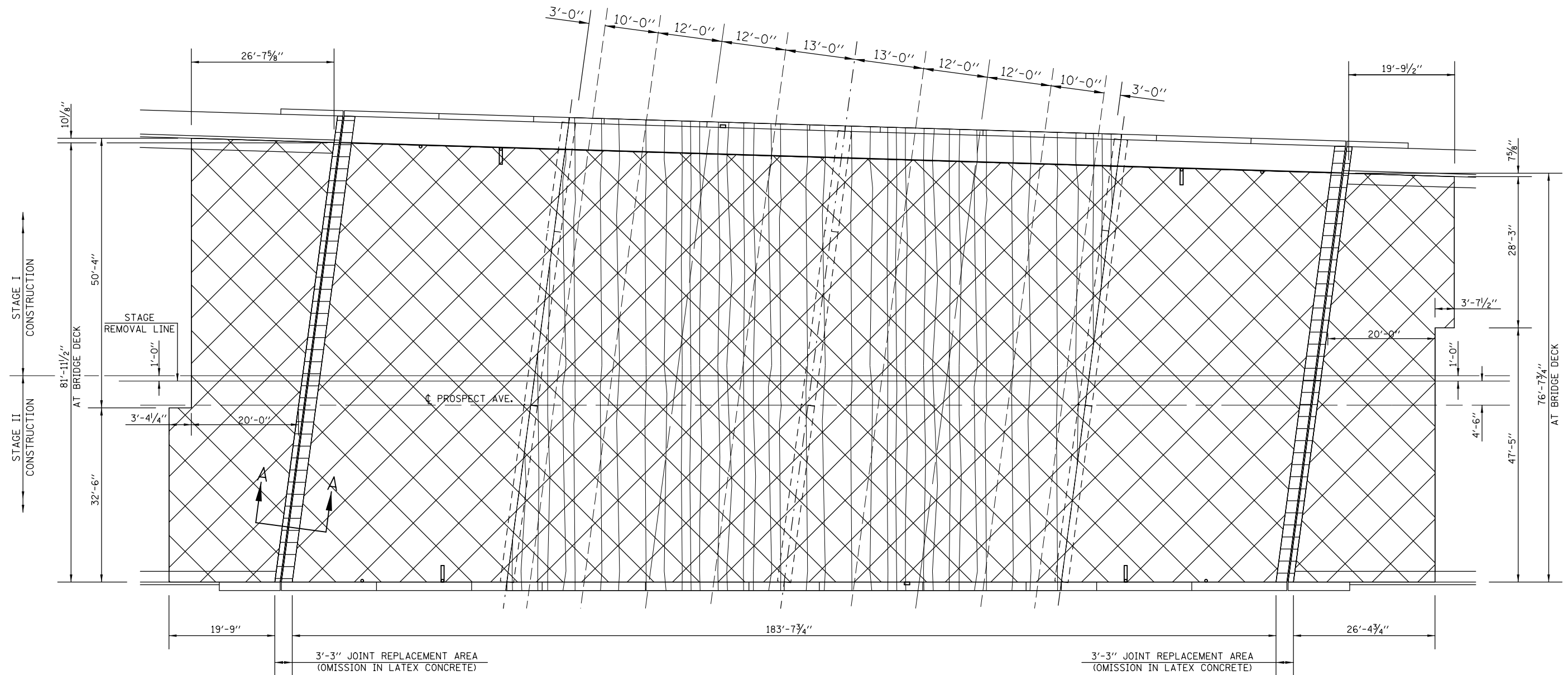
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	24
				CONTRACT NO. 70D15
ILLINOIS FED. AID PROJECT				






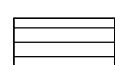

# BRIDGE DECK WEARING SURFACE

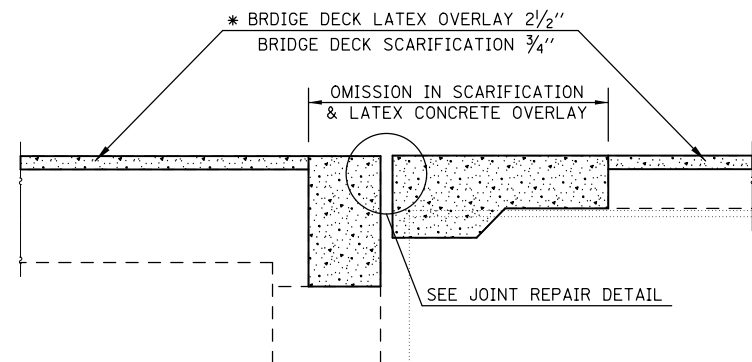
S.N. 010-0186



**NOTE:**

\* PRIOR TO 1/4" DIAMOND GRINDING  
 SYNTHETIC FIBERS SHALL BE ADDED TO THE BRIDGE DECK LATEX CONCRETE OVERLAY, SEE SPECIAL PROVISIONS.

-  BRIDGE DECK SCARIFICATION 3/4" &  
\* BRIDGE DECK LATEX CONCRETE OVERLAY 2 1/2" & PROTECTIVE COAT
-  CONCRETE REMOVAL & CONCRETE SUPERSTRUCTURE & PROTECTIVE COAT
-  PROTECTIVE SHIELD



**SECTION A-A**

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
PROTECTIVE SHIELD	SQ YD	971.0
BRIDGE DECK SCARIFICATION 3/4"	SQ YD	2,019.0
BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2"	SQ YD	2,019.0
DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1,881.0
BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,848.0
PROTECTIVE COAT	SQ YD	2,067.0

MODEL: \\MODELNAME  
 FILE NAME: \\FILENAME  
 PROJECT: \\PROJECT  
 DRAWING: \\DRAWING  
 DATE: 12/6/2018

USER NAME = shawleres	DESIGNED - ESS	REVISED -
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PLOT DATE = 12/6/2018	CHECKED - TJB	REVISED -
	DATE -	REVISED -

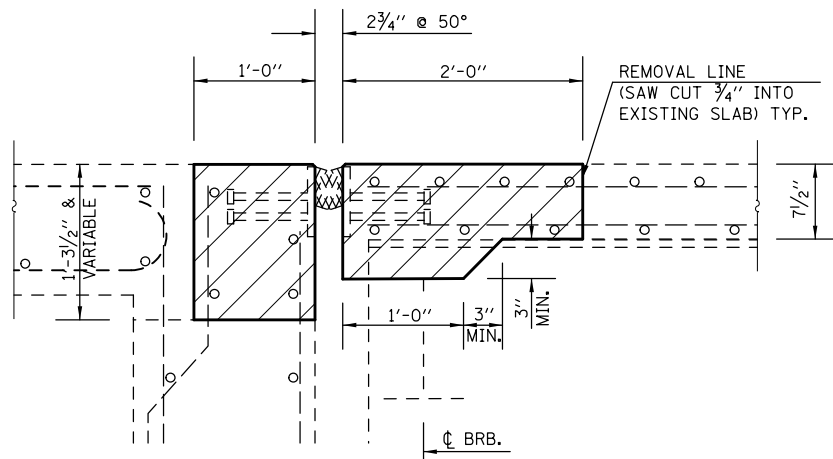
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK WEARING SURFACE PLAN  
 S.N. 010-0186**

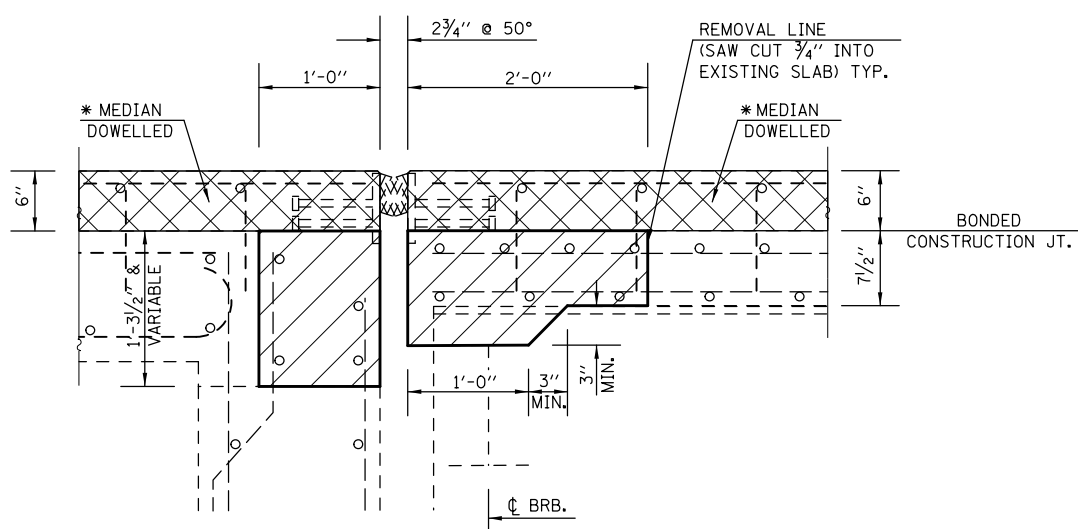
SCALE: SHEET 7 OF 38 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	26
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				

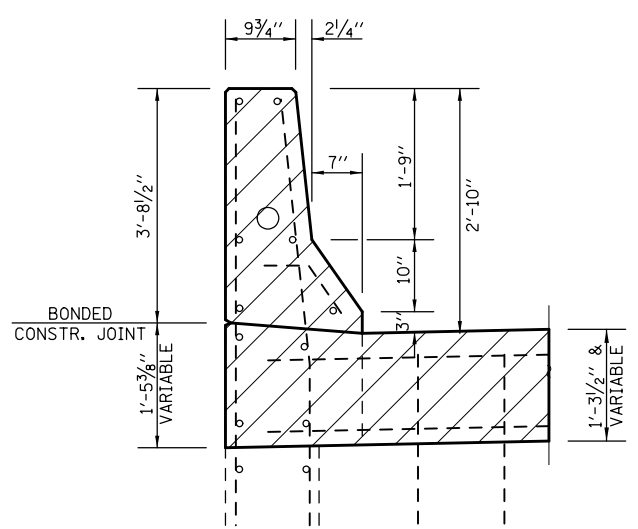




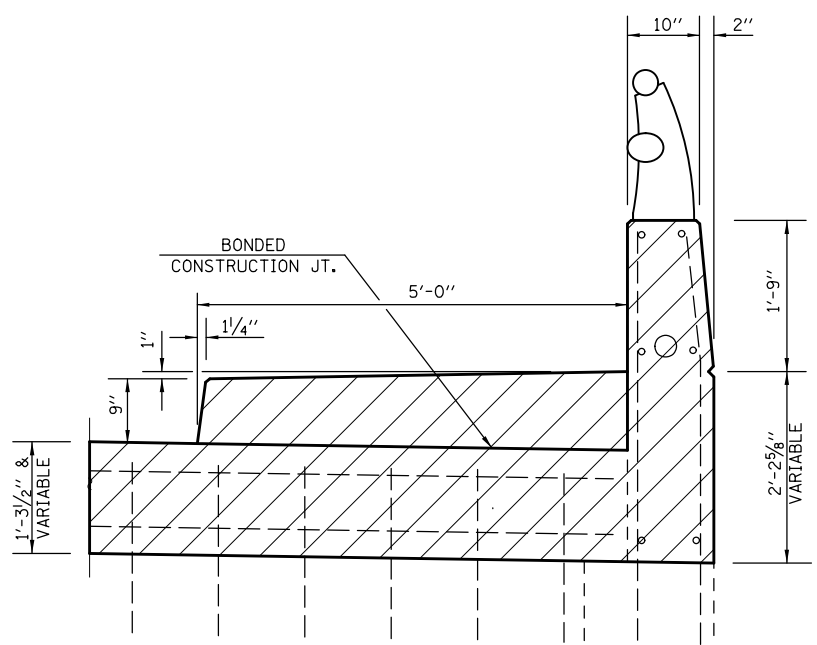
SECTION A-A  
CONCRETE REMOVAL



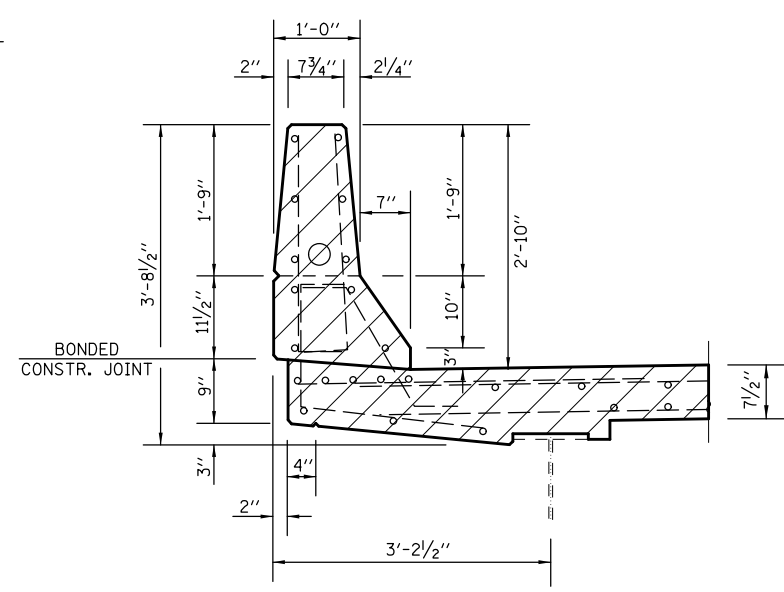
SECTION B-B  
CONCRETE REMOVAL



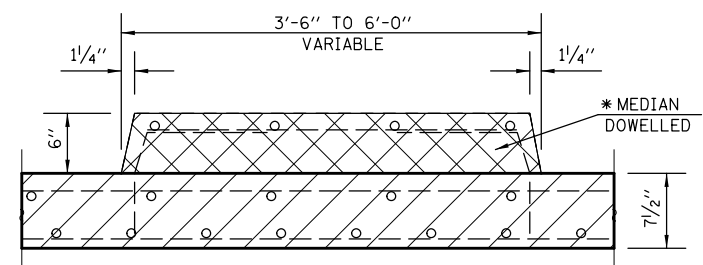
SECTION C-C  
CONCRETE REMOVAL



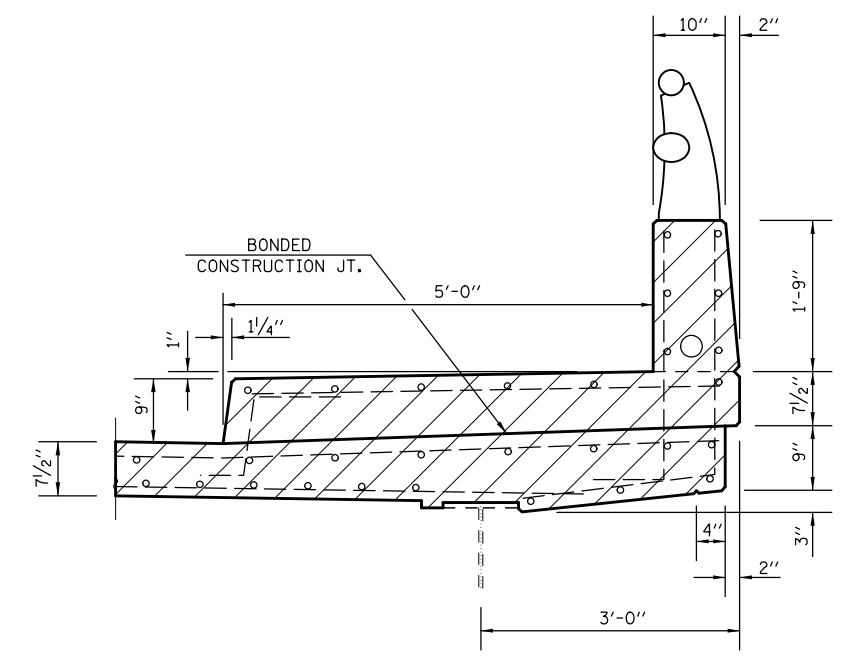
SECTION D-D  
CONCRETE REMOVAL



SECTION E-E  
CONCRETE REMOVAL



SECTION THRU MEDIAN  
CONCRETE REMOVAL



SECTION F-F  
CONCRETE REMOVAL

- CONCRETE REMOVAL
- \* DOWELLED MEDIAN REMOVED PRIOR TO STAGE CONSTRUCTION (FOR QUANTITY AND DETAILS SEE SHEET 14 OF 66)

**NOTES:**

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 INCLUDED WITH CONCRETE REMOVAL.

THE EXISTING EXPANSION JOINT SYSTEMS SHALL BE REMOVED COMPLETELY, AS WELL AS ANY FOREIGN MATERIAL THAT HAS ACCUMULATED OR BEEN PLACED IN THE JOINT OPENINGS. COST IS INCLUDED WITH CONCRETE REMOVAL.

THE GUARDRAIL WITHIN THE PARAPET REPAIR AND REMOVAL AND REPLACEMENT LIMITS SHALL BE REMOVED TO ALLOW FOR THE REPAIR WORK TO BE COMPLETED. THE CONTRACTOR IS TO SAFELY STORE REMOVED MATERIAL. FOLLOWING COMPLETION OF REPAIR WORK THE CONTRACTOR MAY EITHER SAVE AND RE-USE THE EXISTING CAST-IN-PLACE ANCHOR SYSTEM OR USE EPOXY-GROUTED THREADED RODS TO RE-ATTACH THE EXISTING GUARDRAIL. COST INCLUDED WITH CONCRETE REMOVAL.

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	21.2

MODEL: \\MODELNAME  
 FILE NAME: \\FILENAME  
 PROJECT: \\PROJECT  
 OFFICE: \\OFFICE  
 DATE: 1/18/2019

USER NAME = shawleres	DESIGNED - ESS	REVISED -
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PLOT DATE = 1/18/2019	DATE -	REVISED -

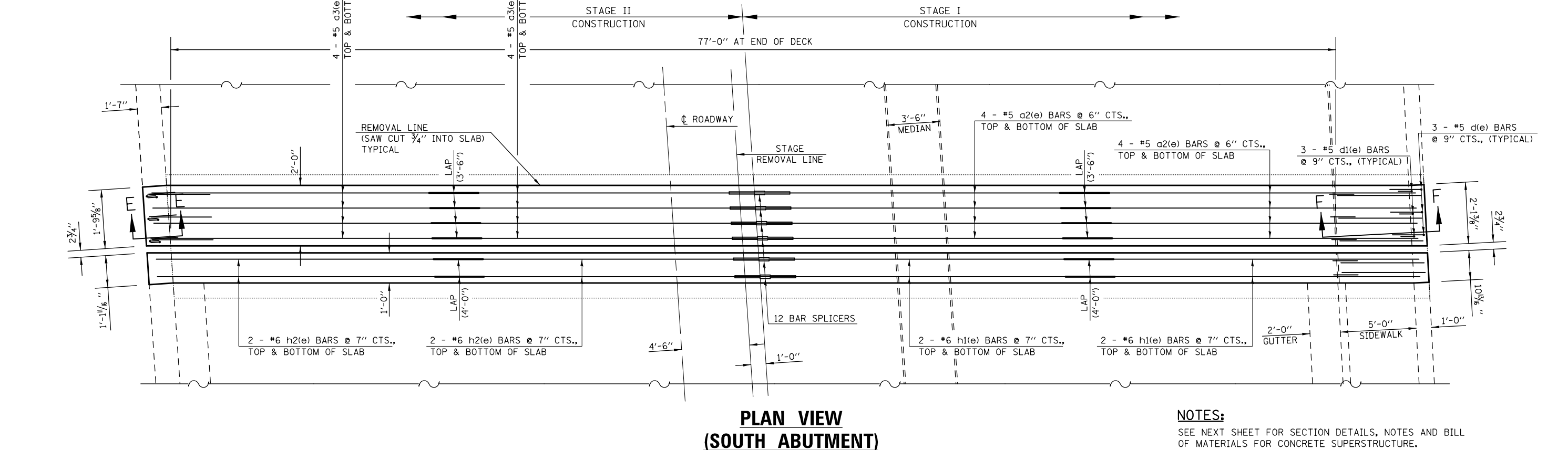
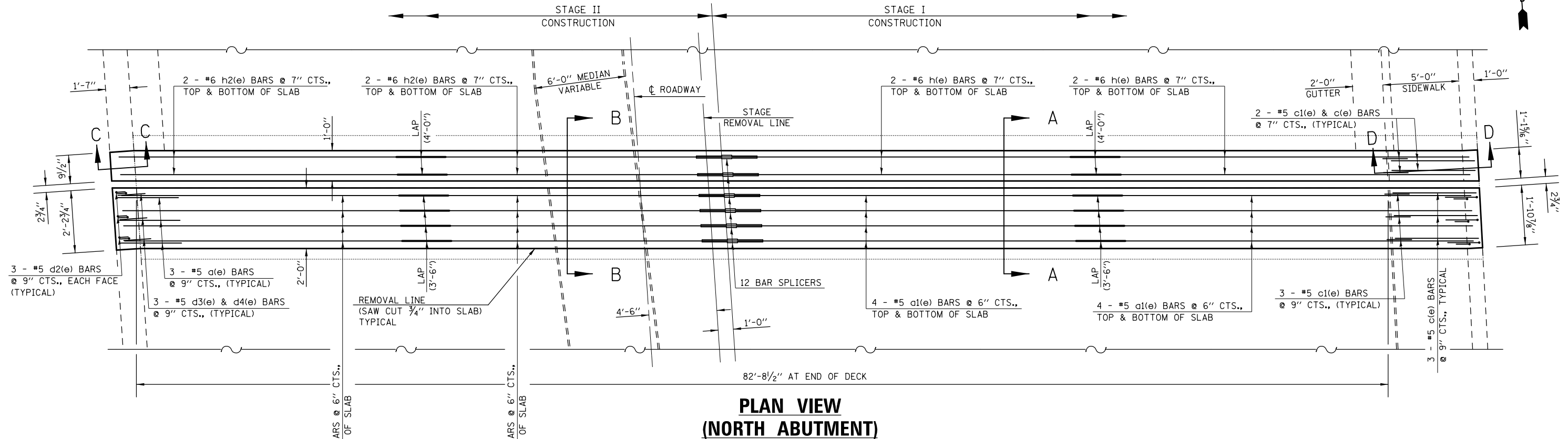
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS - CONCRETE REMOVAL  
S.N. 010-0186**

SCALE: SHEET 9 OF 38 SHEETS STA. TO STA.

F.A.I. RTE. 74	SECTION (14-HB)BDR	COUNTY CHAMPAIGN	TOTAL SHEETS 66	SHEET NO. 28
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70D15	

# CONCRETE SUPERSTRUCTURE PLAN S.N.010-0186



**NOTES:**  
SEE NEXT SHEET FOR SECTION DETAILS, NOTES AND BILL OF MATERIALS FOR CONCRETE SUPERSTRUCTURE.

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FILE: \\NAME: \\PROJECTS\0570D15\CADD\DATA\Structures\0570D15\_eht\_bridge\_abutms.dgn

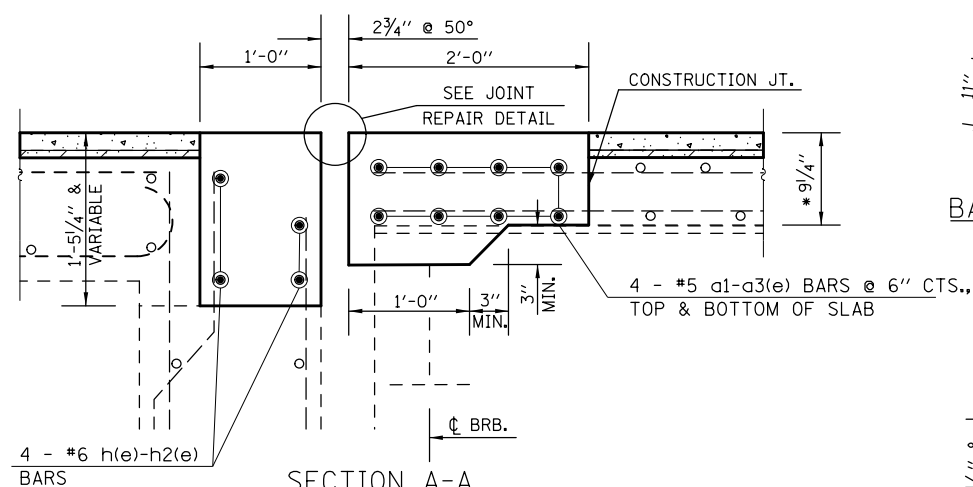
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

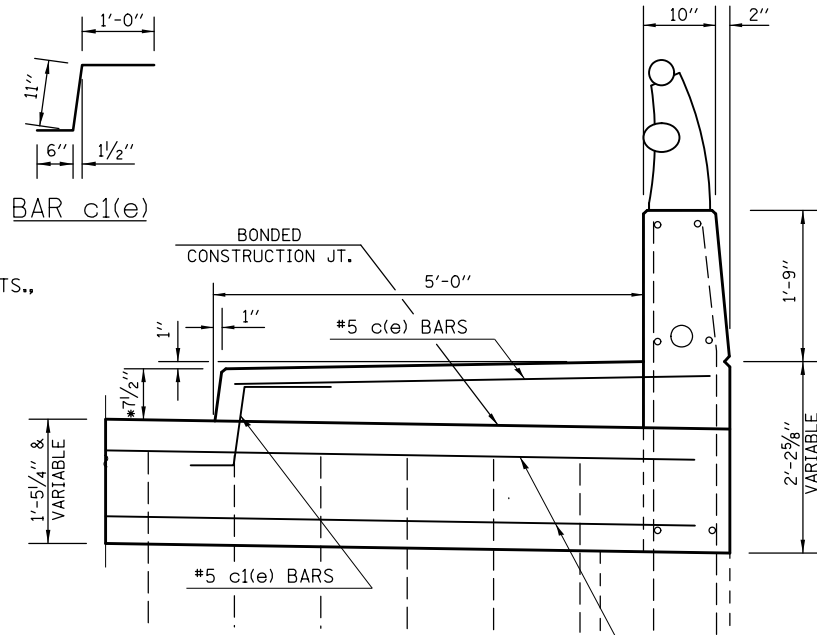
**SUPERSTRUCTURE PLAN - CONCRETE SUPERSTRUCTURE  
S.N. 010-0186**

SCALE: SHEET 10 OF 38 SHEETS STA. TO STA.

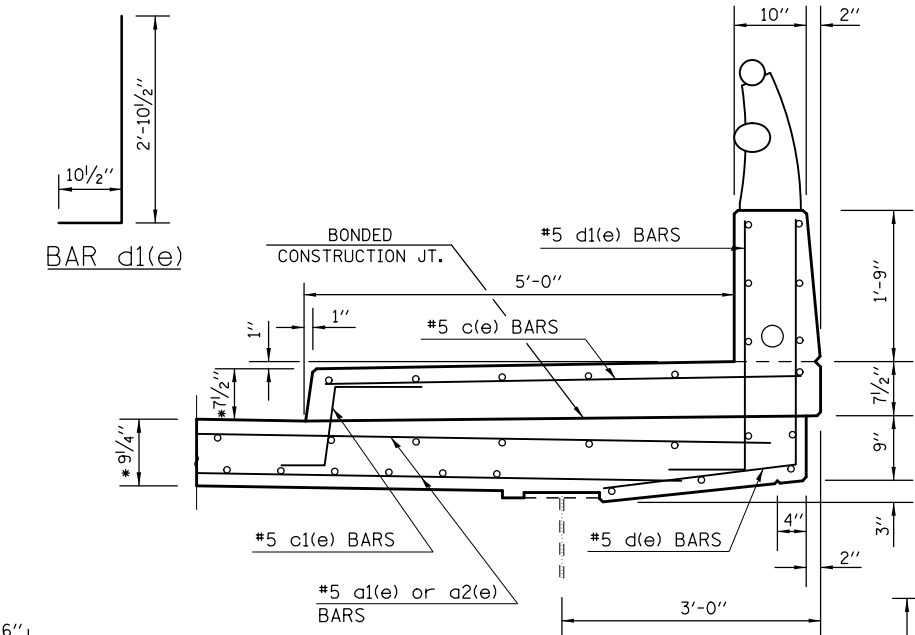
F.A.I. RTE. 74	SECTION (14-HB)BDR	COUNTY CHAMPAIGN	TOTAL SHEETS 66	SHEET NO. 29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70D15	



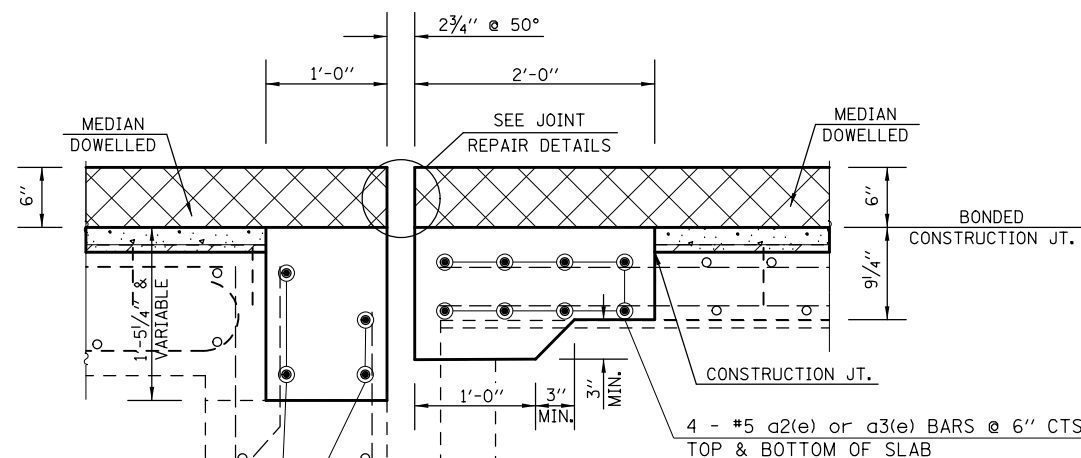
SECTION A-A  
CONCRETE SUPERSTRUCTURE



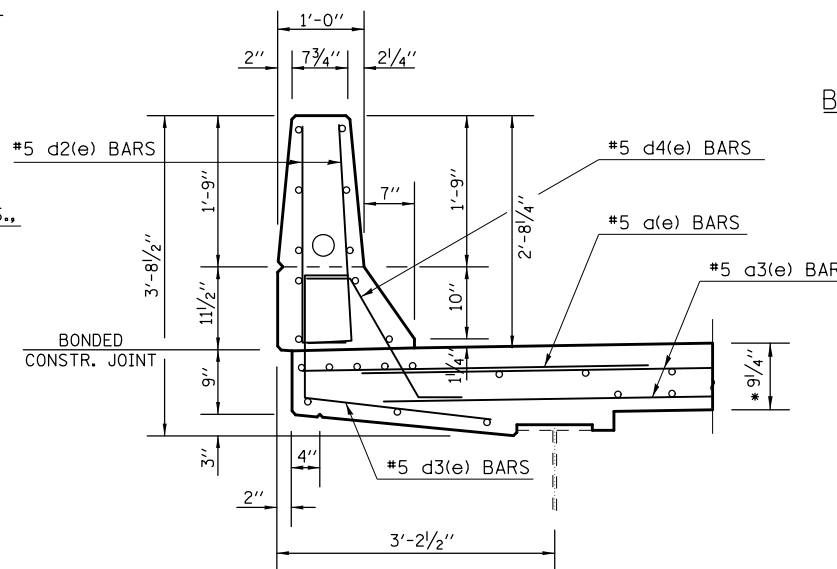
SECTION D-D  
CONCRETE SUPERSTRUCTURE



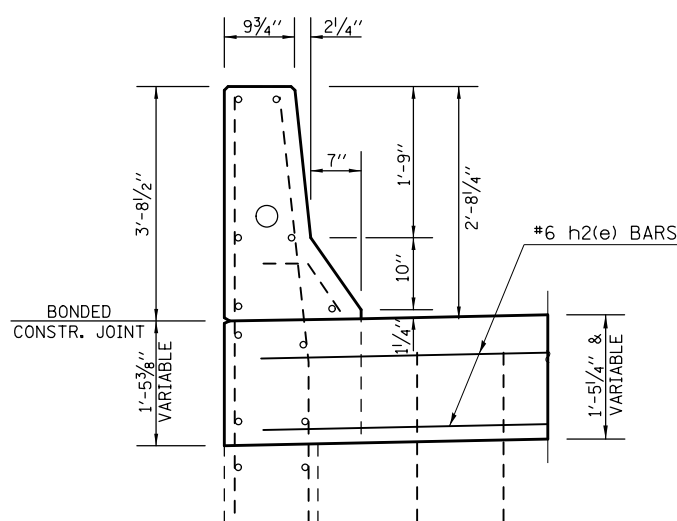
SECTION F-F  
CONCRETE SUPERSTRUCTURE



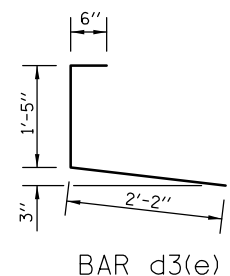
SECTION B-B  
CONCRETE SUPERSTRUCTURE



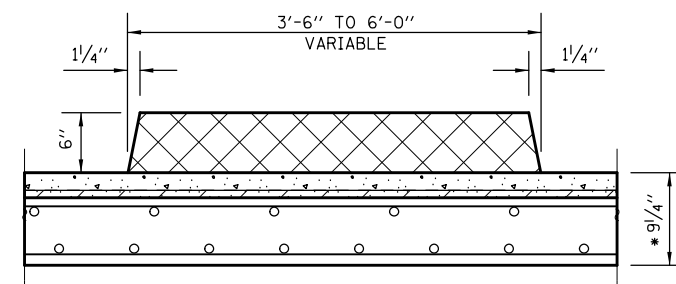
SECTION E-E  
CONCRETE SUPERSTRUCTURE



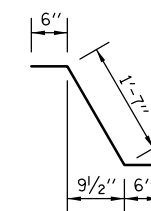
SECTION C-C  
CONCRETE SUPERSTRUCTURE



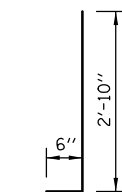
BAR d3(e)



SECTION THRU MEDIAN  
CONCRETE SUPERSTRUCTURE



BAR d4(e)



BAR d2(e)

**NOTES:**

\* PRIOR TO 1/4" DIAMOND GRINDING

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 INCLUDED WITH CONCRETE REMOVAL.

COST OF RE-ATTACHING EXISTING GUARDRAIL IS INCLUDED WITH CONCRETE SUPERSTRUCTURE.

REINFORCEMENT BARS DESIGNATED (e) SHALL BE EPOXY COATED.

**BILL OF MATERIALS**

BAR	NO.	SIZE	LENGTH	SHAPE
a(e)	6	#5	4'-0"	————
a1(E)	16	#5	26'-5"	————
a2(E)	16	#5	23'-7"	————
a3(E)	32	#5	21'-8"	————
h(E)	8	#6	26'-8"	————
h1(E)	8	#6	23'-10"	————
h2(E)	16	#6	21'-11"	————
d(E)	6	#5	5'-0"	┌───┐
d1(E)	6	#5	3'-9"	┌───┐
d2(E)	12	#5	3'-4"	┌───┐
d3(E)	6	#5	4'-1"	┌───┐
d4(E)	6	#5	2'-7"	┌───┐
c(E)	10	#5	5'-6"	————
c1(E)	10	#5	2'-5"	┌───┐

ITEM	UNIT	TOTAL
REINFORCEMENT BARS (EPOXY)	POUND	2,937.0
CONCRETE SUPERSTRUCTURE	POUND	23.9
BAR SPLICERS	EACH	24.0

3/4" BRIDGE DECK SCARIFICATION  
BRIDGE DECK LATEX OVERLAY 2 1/2"

DOWELLED MEDIAN PLACED AFTER  
STAGE CONSTRUCTION

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS - CONCRETE SUPERSTRUCTURE  
S.N. 010-0186

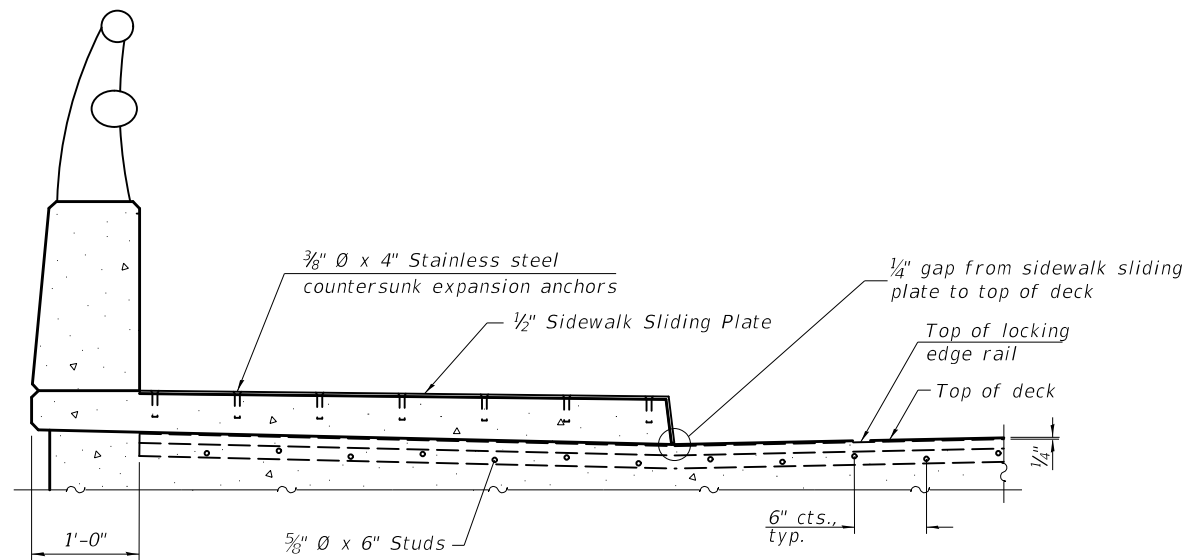
SCALE: SHEET 11 OF 38 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	30
				CONTRACT NO. 70D15
ILLINOIS FED. AID PROJECT				

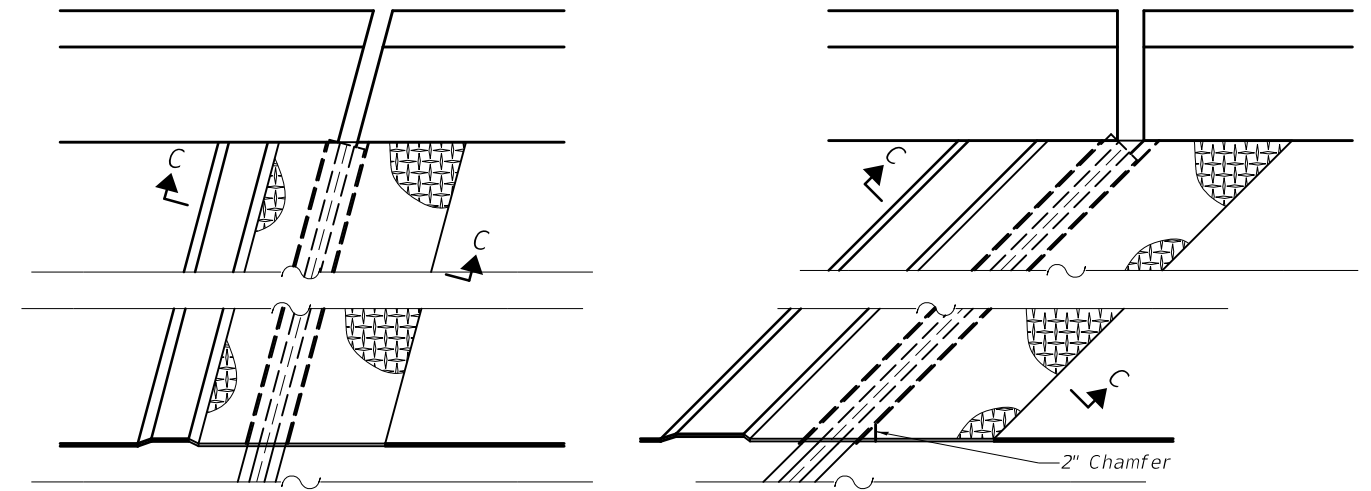
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USER NAME = shawleres	DESIGNED - ESS	REVISED -
DRAWN - ESS	REVISED -	
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PLOT DATE = 12/6/2018	DATE -	REVISED -

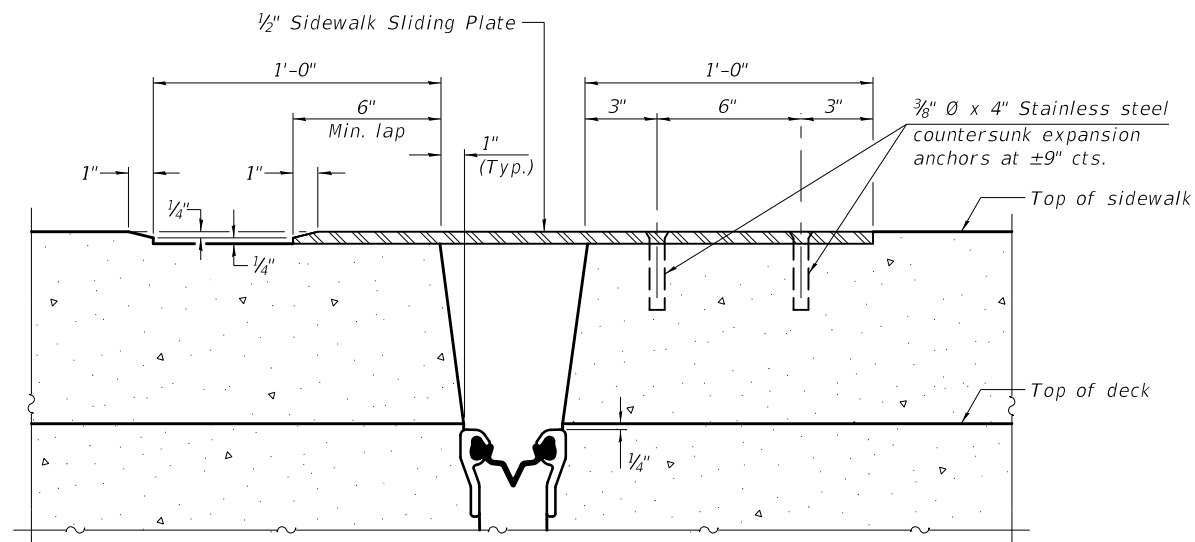




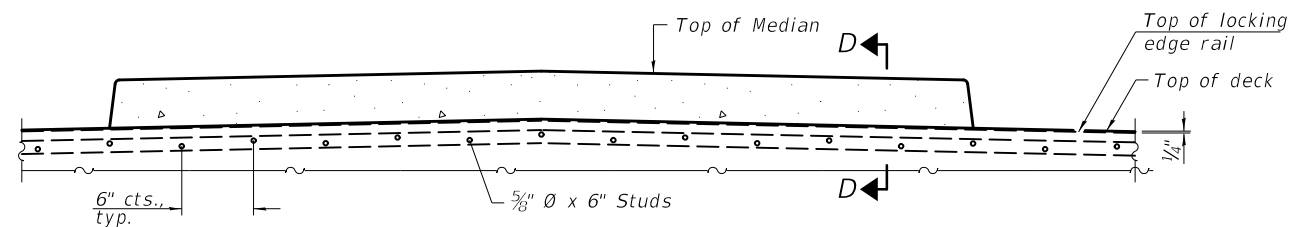
**ELEVATION AT RAISED SIDEWALK**



**PLAN AT RAISED SIDEWALK**

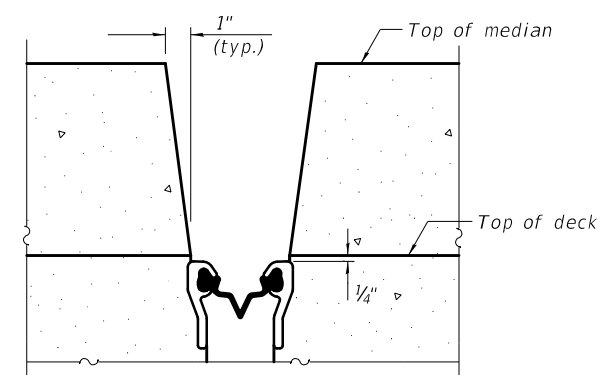


**SECTION C-C**

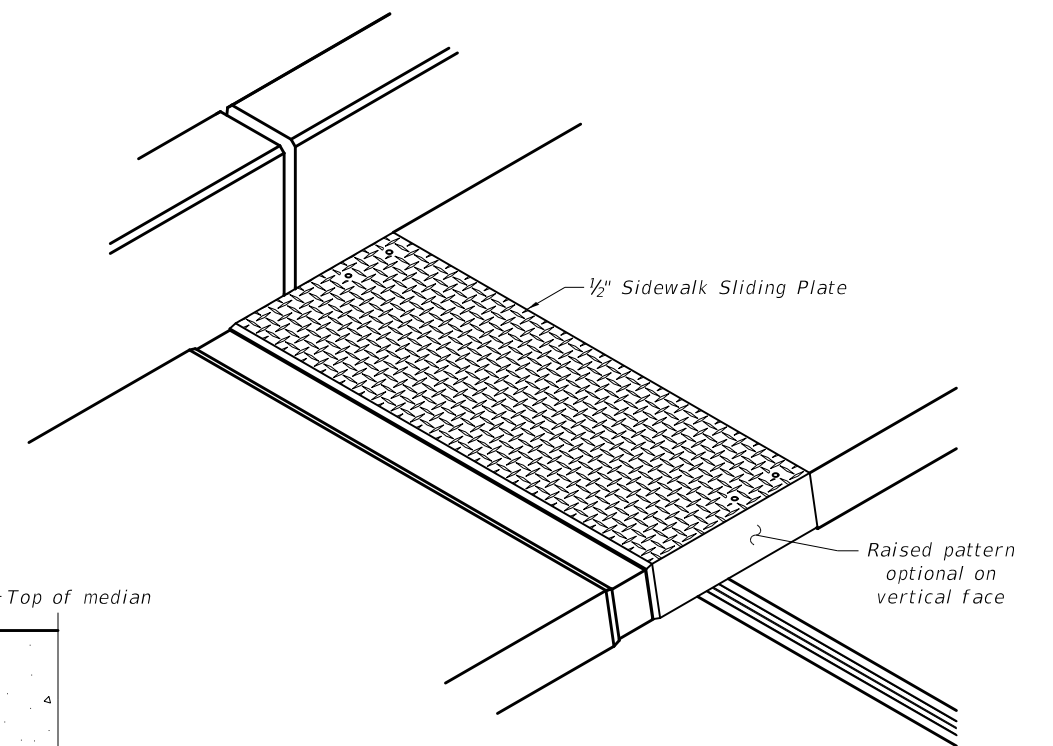


**ELEVATION AT MEDIAN**

For skews  $> 30^\circ$ , chamfer acute corners 2" similar to sidewalk.



**SECTION D-D**  
(at Rt. L's)



**TRIMETRIC VIEW**

EJ-SS-S

8-11-17

(Sheet 2 of 3)

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK  
STRUCTURE NO. 010-0186**

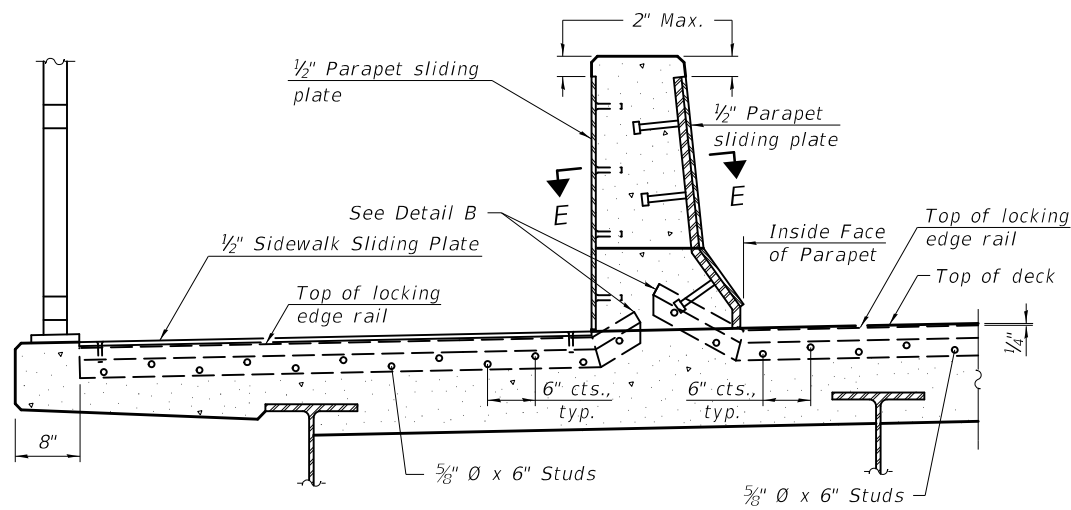
USER NAME = shawleres	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 12/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE: SHEET 13 OF 38 SHEETS STA. TO STA.

F.A.I. RTE. 74	SECTION (14-HB)BDR	COUNTY CHAMPAIGN	TOTAL SHEETS 66	SHEET NO. 32
			CONTRACT NO. 70D15	
			ILLINOIS FED. AID PROJECT	

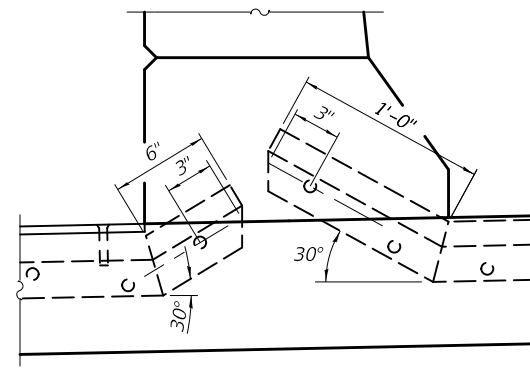
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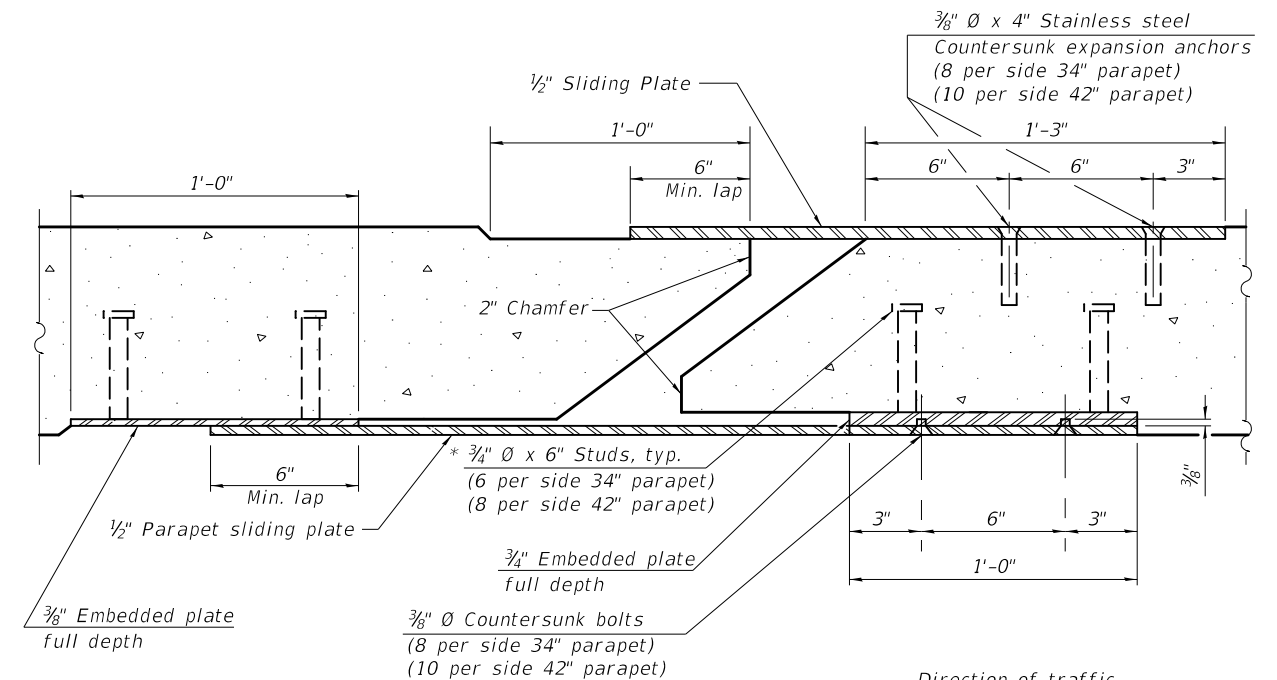


**ELEVATION AT DECK LEVEL SIDEWALK**

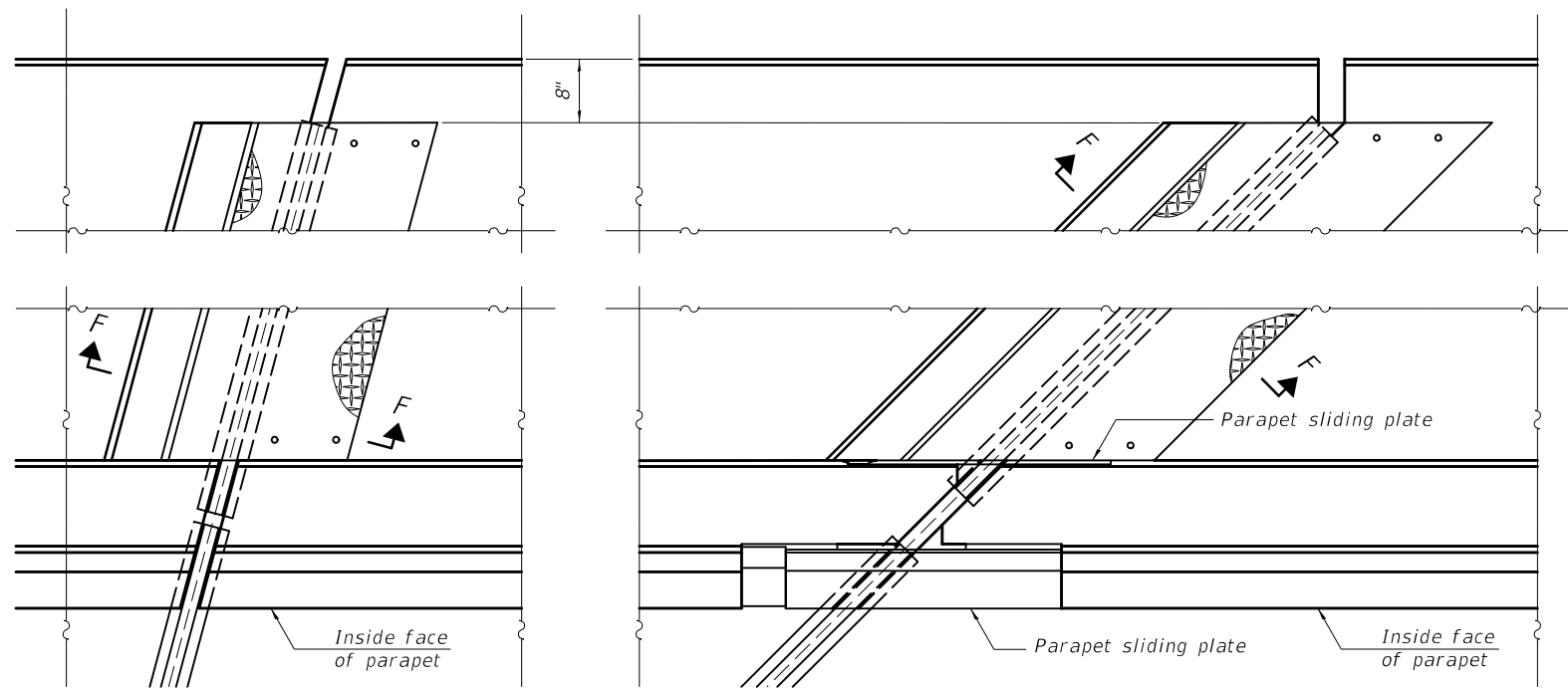
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



**DETAIL B**



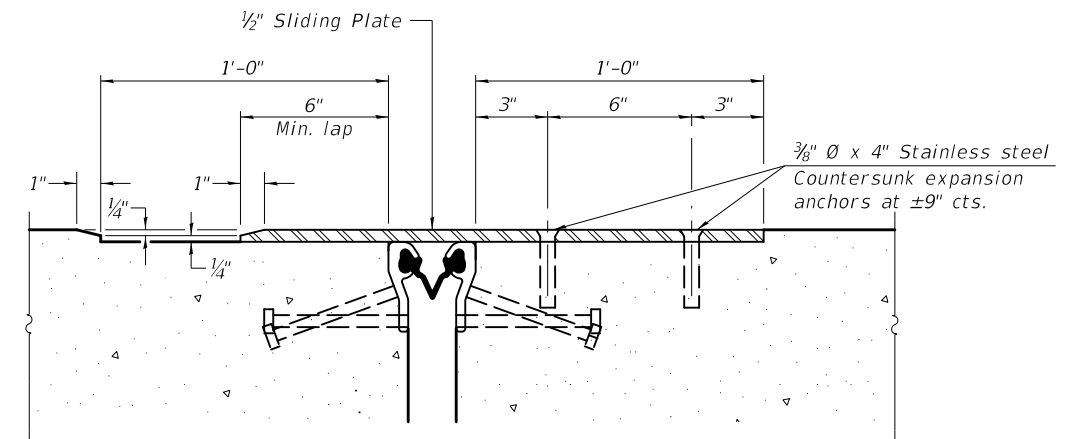
**SECTION E-E**



(FOR SKEWS ≤ 30°)

(FOR SKEWS > 30°)

**PLAN AT DECK LEVEL SIDEWALK**



**SECTION F-F**

EJ-SS-S

8-11-17

(Sheet 3 of 3)

USER NAME = shawleres	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 12/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PREFORMED JOINT STRIP SEAL - SIDEWALK  
STRUCTURE NO. 010-0186**

SCALE: SHEET 14 OF 38 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	33
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				

MODEL: SHAWLERES  
 FILE NAME: P:\PROJECTS\70D15\CADD\DATA\Structures\70D15\_sht\_bridge\_plans.dgn  
 PROJECT: 70D15  
 OFFICE: BDR  
 DATE: 8/11/17

# DETAIL FOR DRAINAGE SCUPPERS TO BE ADJUSTED

S.N. 010-0186

## NOTES:

\* PRIOR TO 1/4" DIAMOND GRINDING

ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 36. THE ADJUSTING SCUPPER RING AND 3/4" Ø PIPE SLEEVE SPACERS SHALL BE GALVANIZED.

BOLTS SHALL BE 1/2" Ø AASHTO M164 TYPE 1, MECHANICALLY GALVANIZED.

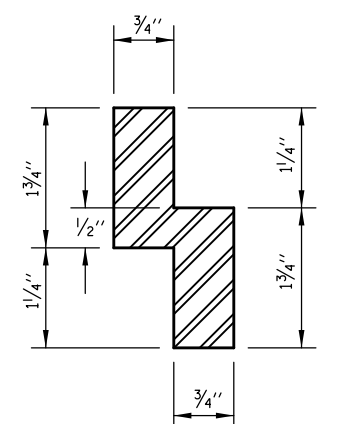
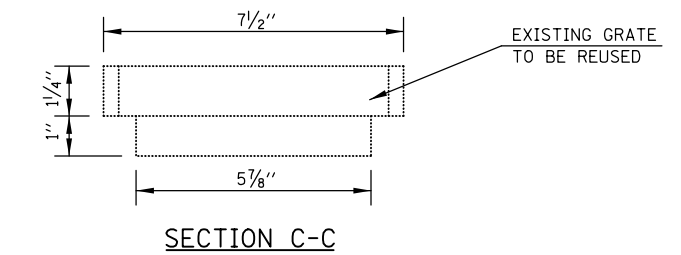
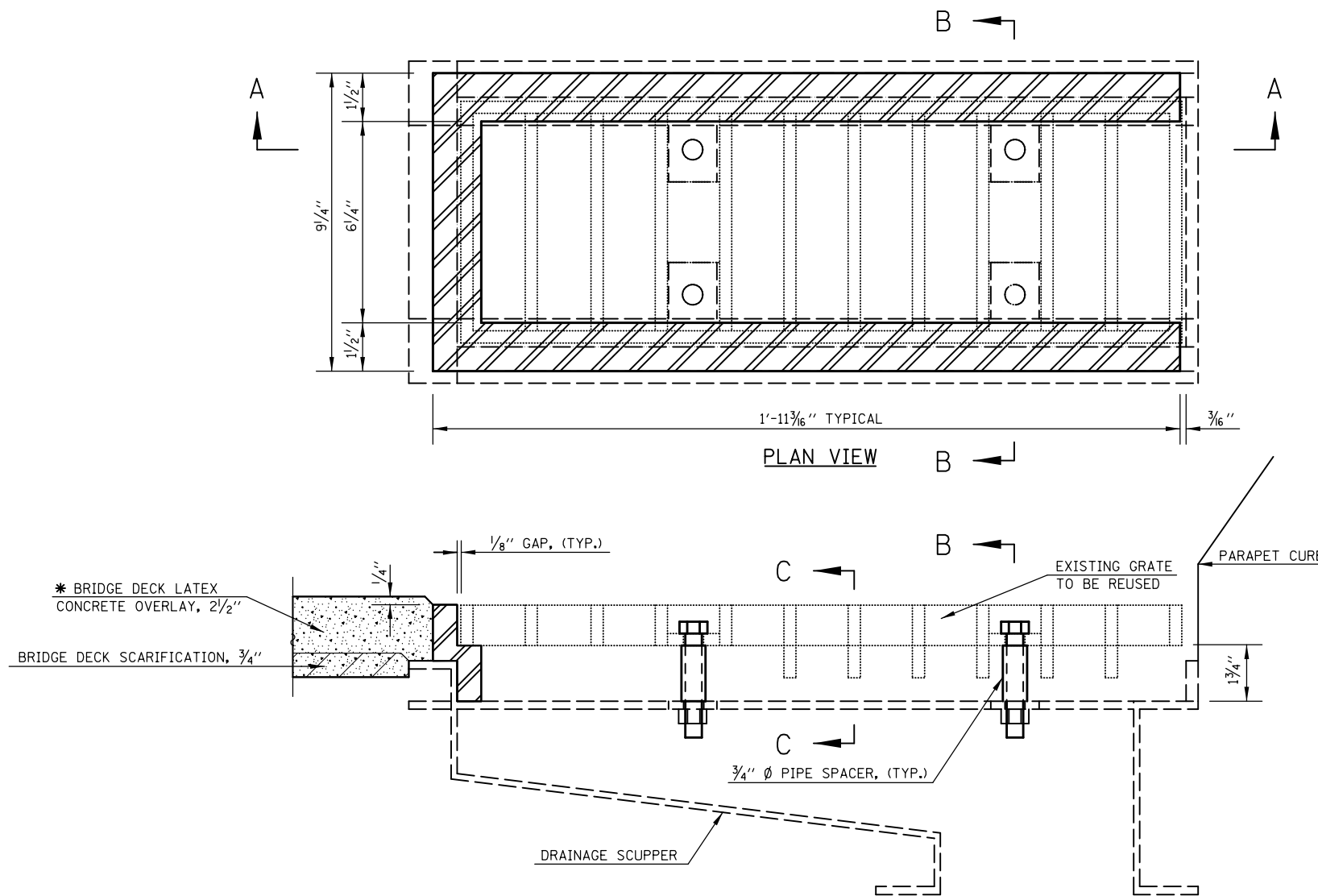
PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

SHOP PLANS FOR PROPOSED ADJUSTING SCUPPER RING SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.

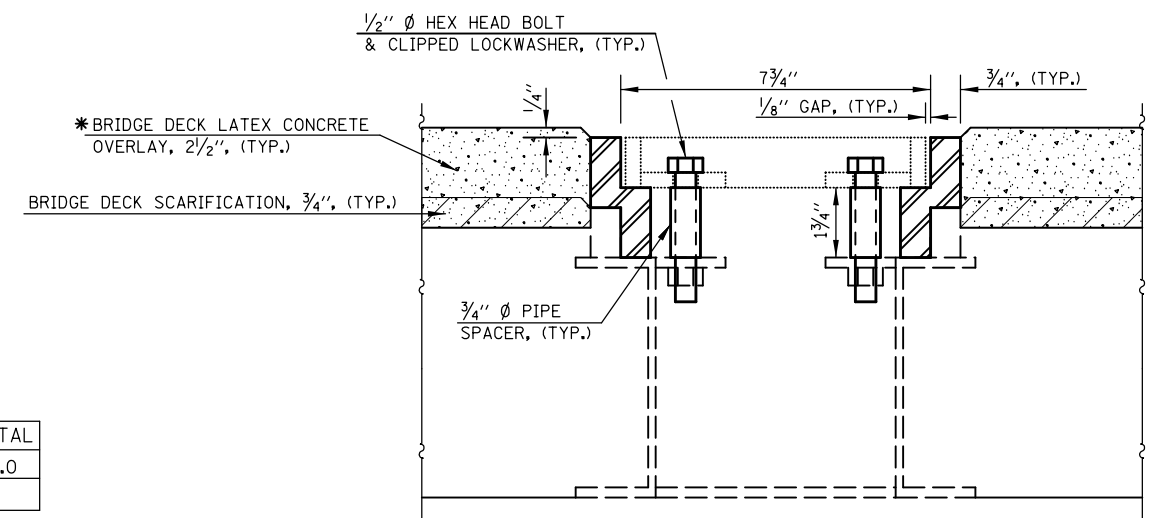
ADJUSTING SCUPPER RINGS ARE INCLUDED IN THE COST PER UNIT EACH OF "DRAINAGE SCUPPERS TO BE ADJUSTED".

## LEGEND

 SCUPPER ADJUSTING RING



ADJUSTING SCUPPER RING



SECTION B-B

## BILL OF MATERIALS

ITEM	UNIT	TOTAL
DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	4.0

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER ADJUSTMENT DETAILS  
S.N. 010-0186

SCALE: SHEET 15 OF 38 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	34
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				

MODEL: \\MODELNAME  
 FILE NAME: \\FILENAME  
 PROJECT: \\PROJECT  
 OFFICE: \\OFFICE  
 DRAWN: \\DRAWN  
 CHECKED: \\CHECKED  
 DATE: \\DATE

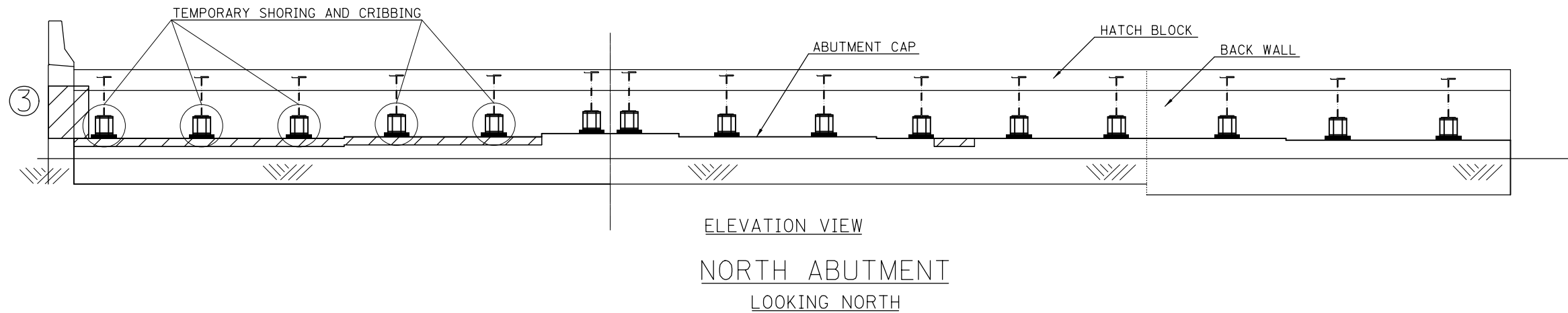
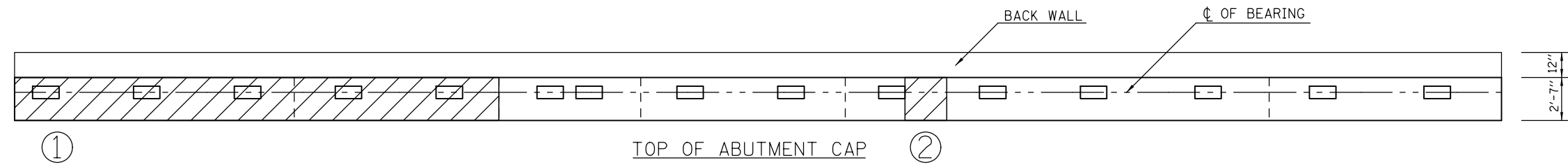
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PLOT SCALE = 40.0000 * / in.	DRAWN -	REVISED -
PLOT DATE = 12/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -



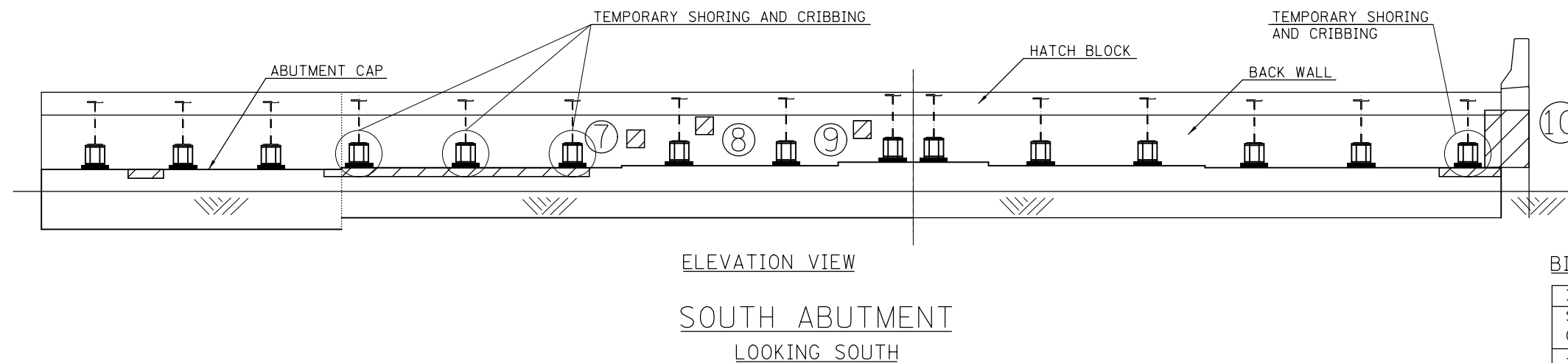
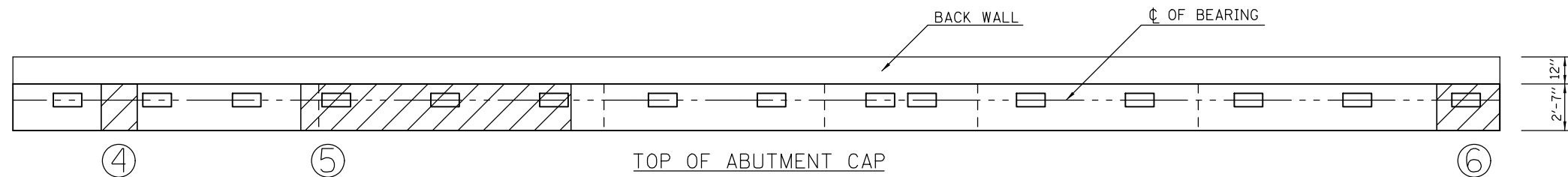
# STRUCTURAL REPAIR OF CONCRETE S.N.010-0186

## BEAM REACTIONS

R <sub>D</sub>	(K)	15.4
R <sub>L</sub>	(K)	33.8
imp.	(K)	9.8
R (TOTAL)	(K)	59.0



PATCH NO.	SIZE	SQ FT
1	29.0' X 2.6'	75.4
2	2.5' X 2.6'	6.5
3	2.5' X 3.25'	8.1
4	2.0' X 2.6'	5.2
5	15.0' X 2.6'	39.0
6	3.5' X 2.6'	9.1
7	1.0' X 1.0'	1.0
8	1.0' X 1.0'	1.0
9	1.0' X 1.0'	1.0
10	2.5' X 3.25'	8.1
		TOTAL = 154.4 SQ FT



## BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURE REPAIR OF CONCRETE (DEPTH LESS THAN OR = TO 5")	SQ FT	155.0
TEMPORARY SHORING AND CRIBBING	EACH	9.0

MODEL: \\MODELNAME  
FILE: \\NAME: \\PROJECTS\0570015\CADD\DATA\Structures\0570015\_eht\_bridge\_abutms.dgn

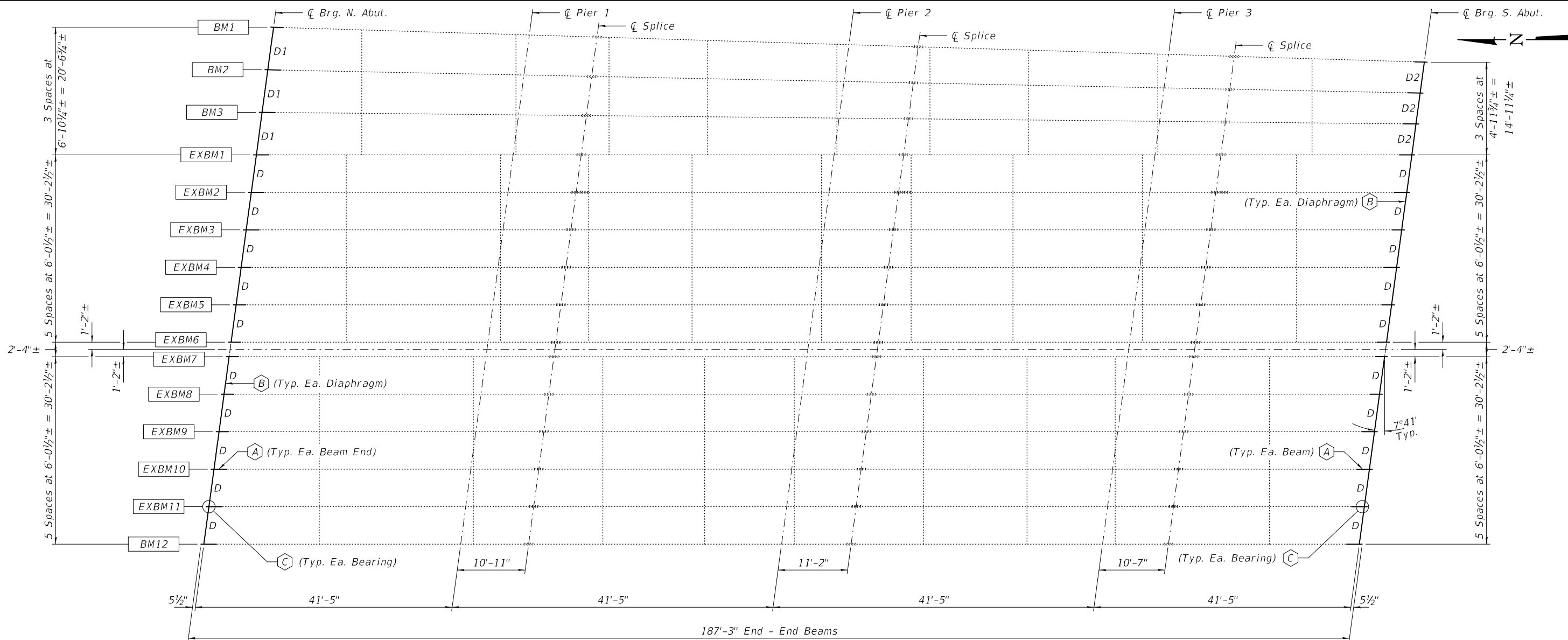
USER NAME = shawleres	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -	
PLOT DATE = 12/6/2018	DATE -	REVISED -	

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL REPAIR OF CONCRETE  
S.N. 010-0186**

SCALE: SHEET 17 OF 38 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	36
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				



PLAN

**NOTES**

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.  
 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.  
 Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Structural Steel Repair.  
 Fasteners shall be high strength bolts. Bolts 3/4"Ø, open holes 13/16"Ø, unless otherwise noted.  
 Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".  
 Diaphragm connection holes shall be 13/16"Ø for 3/4"Ø bolts. Two hardened washers shall be required at diaphragm connections.  
 All new structural steel and bearing assembly shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".  
 All attached utilities shall be relocated away from repair locations. Cost included with Structural Steel Repair.

- (A) - Repair all the Beam Ends at the Abutments. See Beam End Repair Schedule for Repair location.
- (B) - Remove and replace all diaphragms at the Abutments.
- (C) - Remove and replace all Bearings at the Abutments.

**BEAM END REPAIR SCHEDULE**

BEAM NO.	N. ABUT.	S. ABUT.
BM1	Repair "A"	Repair "A"
BM2	Repair "B"	Repair "B"
BM3	Repair "B"	Repair "B"
EXBM1	Repair "C"	Repair "C"
EXBM2	Repair "C"	Repair "C"
EXBM3	Repair "C"	Repair "D"
EXBM4	Repair "D"	Repair "C"
EXBM5	Repair "D"	Repair "D"
EXBM6	Repair "D"	Repair "D"
EXBM7	Repair "D"	Repair "D"
EXBM8	Repair "D"	Repair "D"
EXBM9	Repair "D"	Repair "C"
EXBM10	Repair "C"	Repair "C"
EXBM11	Repair "C"	Repair "C"
BM12	Repair "C"	Repair "C"

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	8600
Structural Steel Removal	Pound	7210
Furnishing & Erecting Structural Steel	Pound	11630
Elastomeric Bearing Assembly, Type I	Each	30
Jack and Remove Existing Bearings	Each	30
Anchor Bolts, 1" Ø	Each	60

Note:  
 See sheet 19 and 20 of 38 for Repair "A", Repair "B", Repair "C" and Repair "D" details.

EXPIRES 11-30-2020

DESIGNED - SMR	EXAMINED - <i>Timothy A. Doolittle</i> ENGINEER OF STRUCTURAL SERVICES	DATE - JANUARY 18, 2019
CHECKED - JSB	PASSED - <i>Carl R. Ringer</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -
DRAWN - daburdell		REVISED -
CHECKED - SMR		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS  
 SN 010-0186

SHEET NO. 18 OF 38 SHEETS

F.A.I. RTE. 74	SECTION (14-HB)BDR	COUNTY CHAMPAIGN	TOTAL SHEETS 66	SHEET NO. 37
CONTRACT NO. 70D15				
ILLINOIS FED. AID PROJECT				

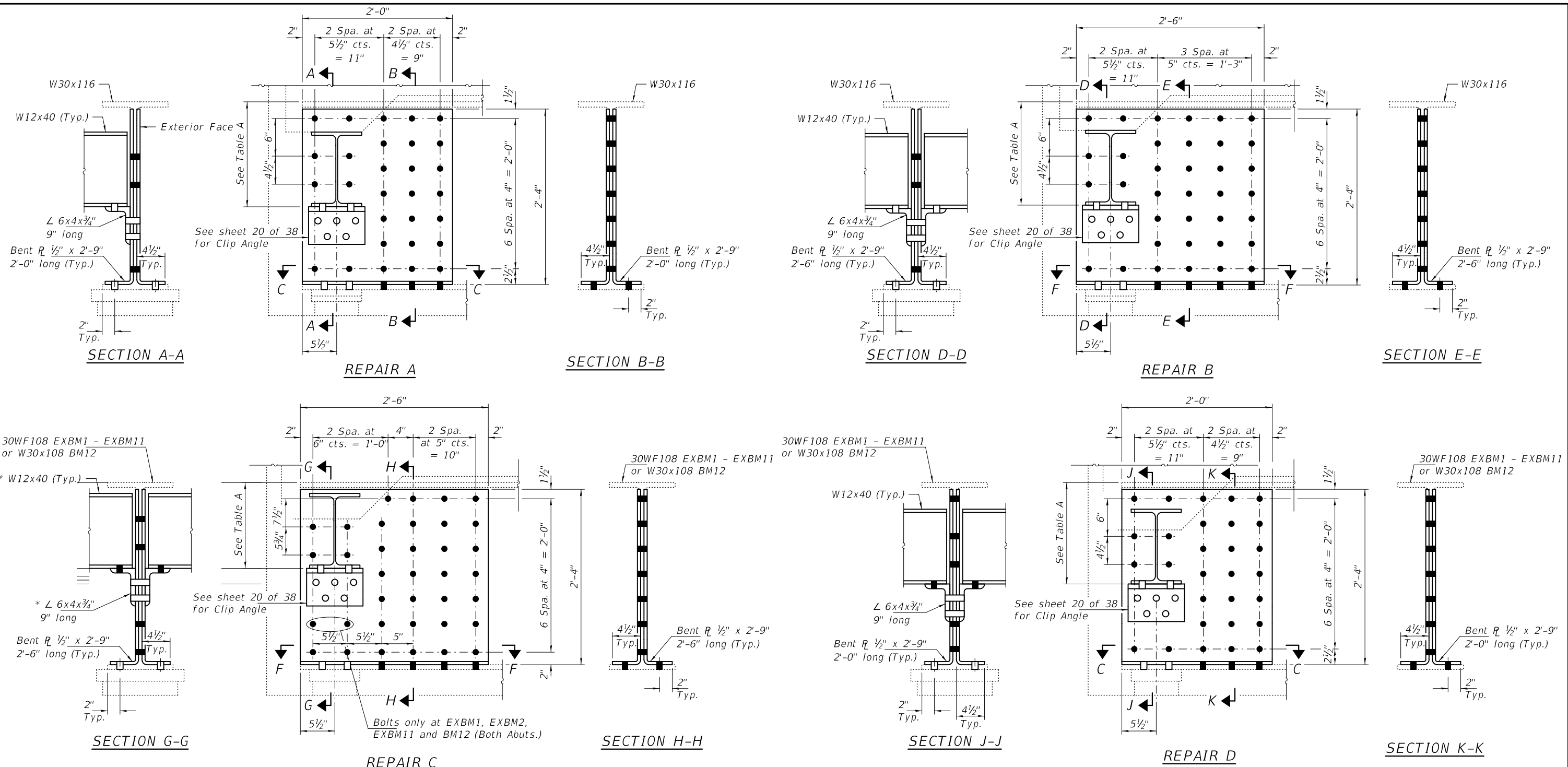


TABLE A

Beam No.	N. Abut.	S. Abut.
BM1	1'-4 3/4"	1'-5 3/8"
BM2	1'-4 1/2"	1'-5"
BM3	1'-5 3/4"	1'-6"
EXBM1	1'-2 15/16"	1'-2 15/16"
EXBM2	1'-2 13/16"	1'-2 13/16"
EXBM3	1'-3 9/16"	1'-3 9/16"
EXBM4	1'-4 7/16"	1'-4 7/16"
EXBM5	1'-4 3/16"	1'-4 3/16"
EXBM6	1'-5 1/16"	1'-5 1/16"
EXBM7	1'-5 5/16"	1'-5 5/16"
EXBM8	1'-4 3/16"	1'-4 3/16"
EXBM9	1'-4 1/16"	1'-4 1/16"
EXBM10	1'-3 9/16"	1'-3 9/16"
EXBM11	1'-2 7/16"	1'-2 7/16"
BM12	1'-1 1/16"	1'-1 3/4"

Notes:  
 Remove existing clip angles using the air-arc method and grind smooth all remaining weld material. Removal included with Structural Steel Repair.  
 See sheet 20 of 38 for Diaphragm Details, Clip Angle Details and Bill of Material.

BOLT HOLE LEGEND

- - Field drill using new steel as template.
- - Shop drill holes in new steel.

DESIGNED - SMR  
 CHECKED - JSB  
 DRAWN - daburdell  
 CHECKED - SMR

EXAMINED  
 PASSED  
 Timothy A. [Signature]  
 ENGINEER OF STRUCTURAL SERVICES  
 Carl [Signature]  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 18, 2019  
 REVISED -  
 REVISED -

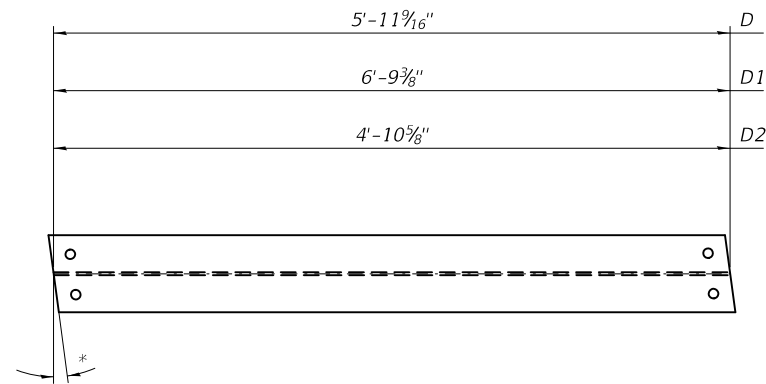
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS  
 SN 010-0186

SHEET NO. 19 OF 38 SHEETS

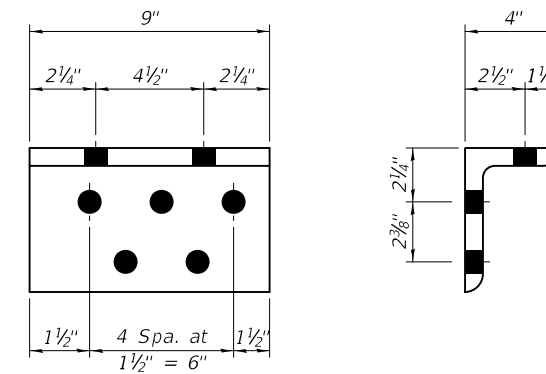
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	38
CONTRACT NO. 70D15				

ILLINOIS FED. AID PROJECT



- \* 7°41' - D
- 7°41' - D1 & D2 at EXBM1
- 7°06' - D1 & D2 at BM3
- 6°31' - D1 & D2 at BM2
- 5°57' - D2 at BM1
- 5°51' - D1 at BM1

**DIAPHRAGMS**  
 W12x40  
 (D - 20 Required)  
 (D1 - 3 Required)  
 (D2 - 3 Required)



**CLIP ANGLE**  
 ∠ 6x4x3/4" - 9" long  
 (52 Required)

\* Includes all steel work needed to repair beam ends as shown on sheet 19 of 38.

\*\* Includes removal of all diaphragms and clip angles to be replaced.

\*\*\* Includes all new diaphragms and clip angles and H.S. bolts.

**BOLT HOLE LEGEND**

- - Field drill using new steel as template.
- - Shop drill holes in new steel.

**BILL OF MATERIAL**

Item	Unit	Total
* Structural Steel Repair	Pound	8600
** Structural Steel Removal	Pound	7210
*** Furnishing & Erecting Structural Steel	Pound	7280

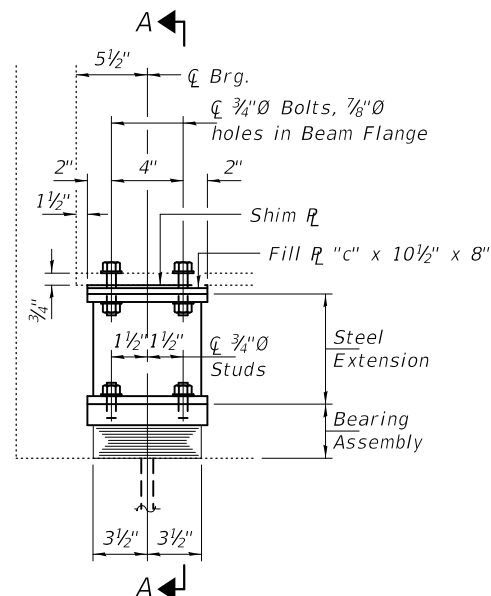
DESIGNED - SMR	EXAMINED	DATE - JANUARY 18, 2019
CHECKED - JSB	<i>Timothy A. Daburdell</i> ENGINEER OF STRUCTURAL SERVICES	
DRAWN - daburdell	PASSED	REVISED -
CHECKED - SMR	<i>Carl R. Rieger</i> ENGINEER OF BRIDGES AND STRUCTURES	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

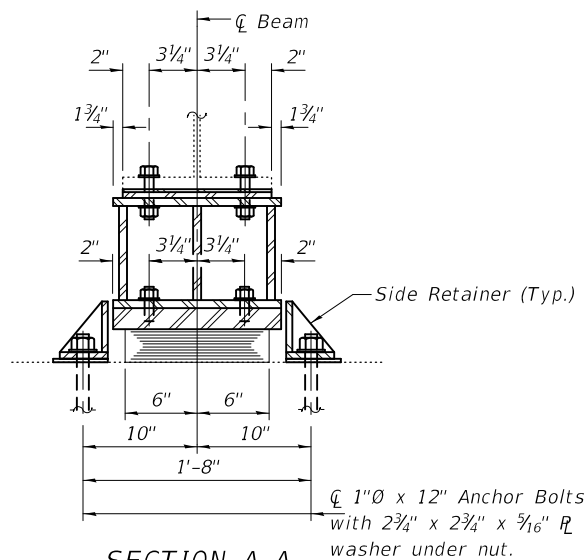
REPAIR DETAILS  
 SN 010-0186

SHEET NO. 20 OF 38 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	39
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				

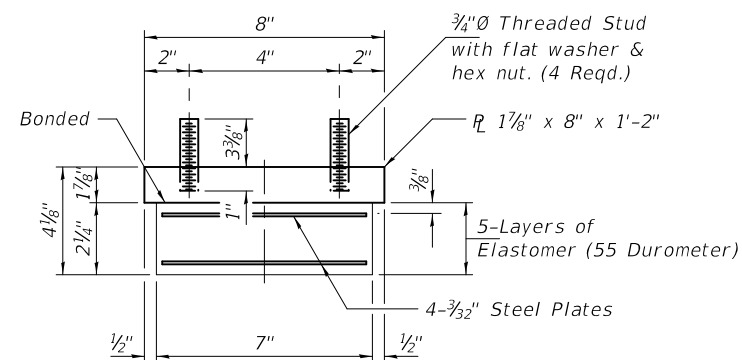


ELEVATION AT ABUTMENT



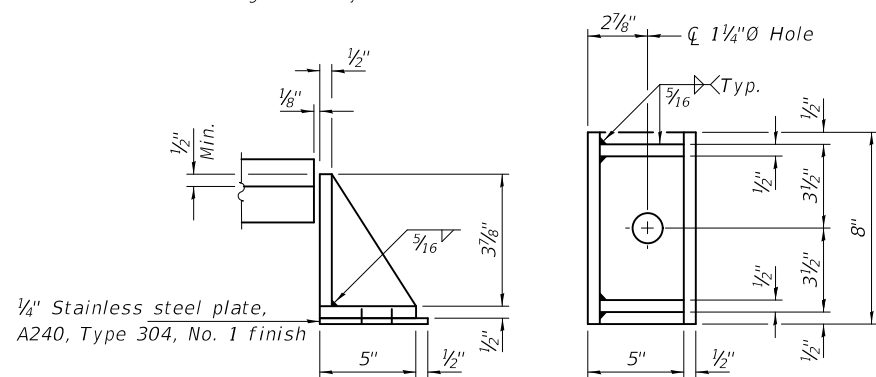
SECTION A-A

TYPE I ELASTOMERIC EXP. BRG.



BEARING ASSEMBLY

Note:  
Shim plates shall not be placed under Bearing Assembly.



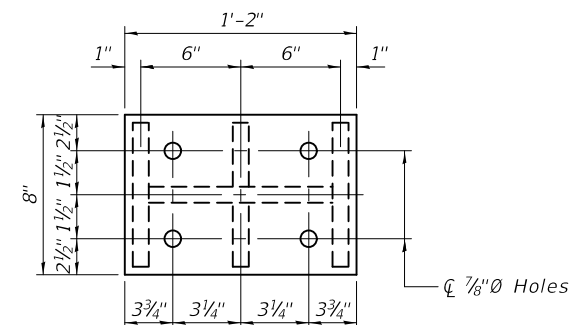
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

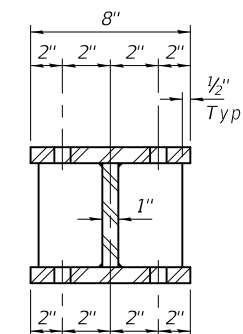
BEAM REACTIONS

R <sub>l</sub>	(K)	15.4
R <sub>t</sub>	(K)	33.8
Imp.	(K)	9.8
R (Total)	(K)	59.0

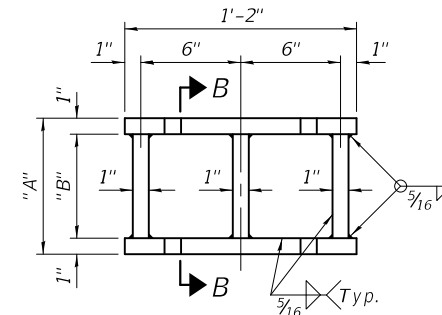
Notes:  
Diaphragm removal and reinstallation may be required to facilitate drilling holes. Cost included with Furnishing and Erecting Structural Steel.  
New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel.  
Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).  
Min. jack capacity = 28 Tons.  
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F<sub>y</sub>=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
Cost of Side retainers and Stainless Steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.



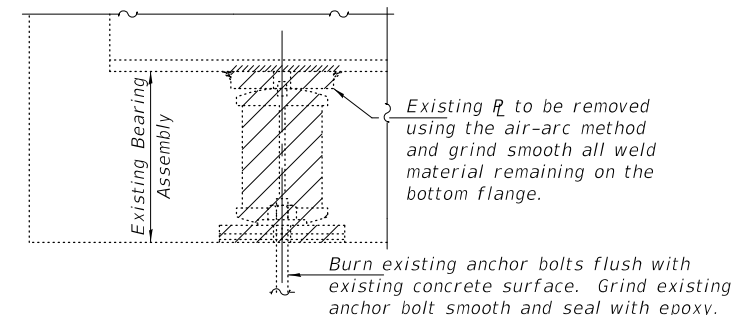
PLAN TOP AND BOTTOM PLATE



SECTION B-B



STEEL EXTENSION DETAIL



EXISTING BEARING REMOVAL DETAIL

Cost included with Jack and Remove Existing Bearings.

NORTH ABUTMENT

Beam No.	"A"	"B"	"C"
BM1	9	7	0.125
BM2	9	7	0.375
BM3	9	7	0.125
EXBM1	9	7	0.875
EXBM2	9	7	0.75
EXBM3	10	8	0.875
EXBM4	10	8	0.125
EXBM5	10	8	0.625
EXBM6	10	8	0.125
EXBM7	10	8	0.125
EXBM8	11	9	0.125
EXBM9	10	8	0.25
EXBM10	10	8	0.625
EXBM11	9	7	0.875
BM12	9	7	0.375

SOUTH ABUTMENT

Beam No.	"A"	"B"	"C"
BM1	9	7	0.875
BM2	9	7	0.125
BM3	9	7	0.125
EXBM1	9	7	0.875
EXBM2	10	8	0
EXBM3	10	8	0.625
EXBM4	10	8	0.375
EXBM5	12	10	0
EXBM6	10	8	0.625
EXBM7	11	9	0.125
EXBM8	12	10	0.375
EXBM9	11	9	0.375
EXBM10	11	9	0.125
EXBM11	10	8	0.375
BM12	9	7	0.625

BILL OF MATERIAL

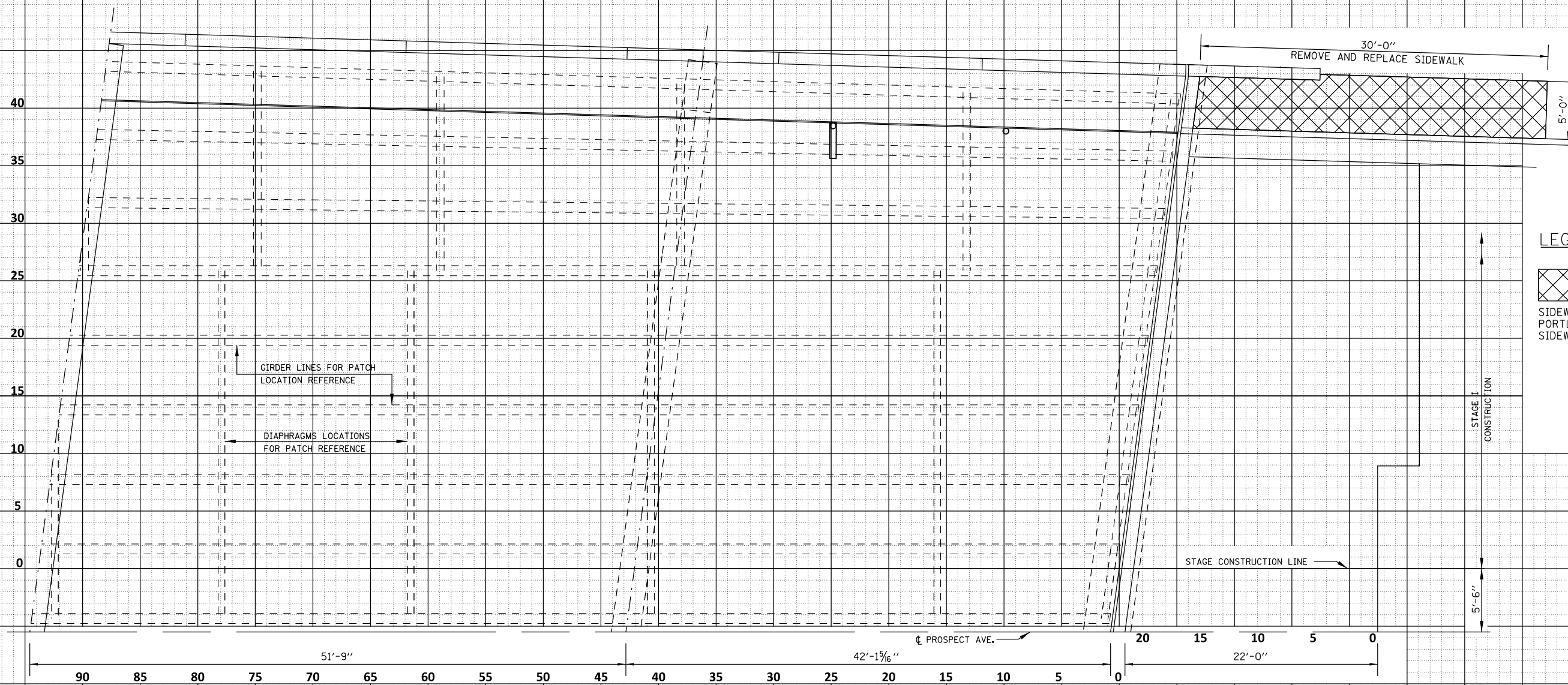
Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	30
Jack and Remove Existing Bearings	Each	30
Furnishing and Erecting Structural Steel	Pound	4360
Anchor Bolts, 1"Ø	Each	60

TYI/REPS 5-17-2018





**BRIDGE DECK PATCHING  
STAGE ONE: SPANS 3 & 4  
S.N. 010-0186**



**LEGEND**

 SIDEWALK REMOVAL & PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH

MODEL: \\MODELNAME; FILE: \\NAME; PROJECT: \\PROJECT; CADD: \\CADD; STRUCTURES: 0570015; EXT: \\EXT; PLOT: \\PLOT; DATE: 12/6/2018

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)			PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)			PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SQ FT	(FD TY 1)	(FD TY 2)			SQ FT	(FD TY 1)	(FD TY 2)			SQ FT	(FD TY 1)	(FD TY 2)

A VISUAL DECK SURVEY WAS PERFORMED ON MAY 11, 2018. SOME TIGHT TRANSVERSE CRACKS WERE VISIBLE, NOTHING THAT WOULD INDICATE THE NEED FOR FULL DEPTH PATCHING. FULL DEPTH PATCHING WAS THEN ESTIMATED AT 2% OF THE DECK AREA SHOULD AREAS FOR FULL-DEPTH PATCHING BE IDENTIFIED AFTER BRIDGE DECK SCARIFICATION.

THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK SLAB REPAIR ON THE A-BUILT PLANS. THE PREFERRED METHOD OF RECORDING THIS INFORMATION IS DATA RECORDING BY GPS OR TOTAL STATION, PROCESSED IN MICROSTATION. IF DESIRED, THE ENGINEER MAY RECORD BY HAND.

**BILL OF MATERIALS**

ITEM	UNIT	TOTAL
PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	150.0
SIDEWALK REMOVAL	SQ FT	150.0

10 SCALE ON 11-17 SHEET

USER NAME = shawleres	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 12/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK PATCHING SHEET  
S.N. 010-0186**

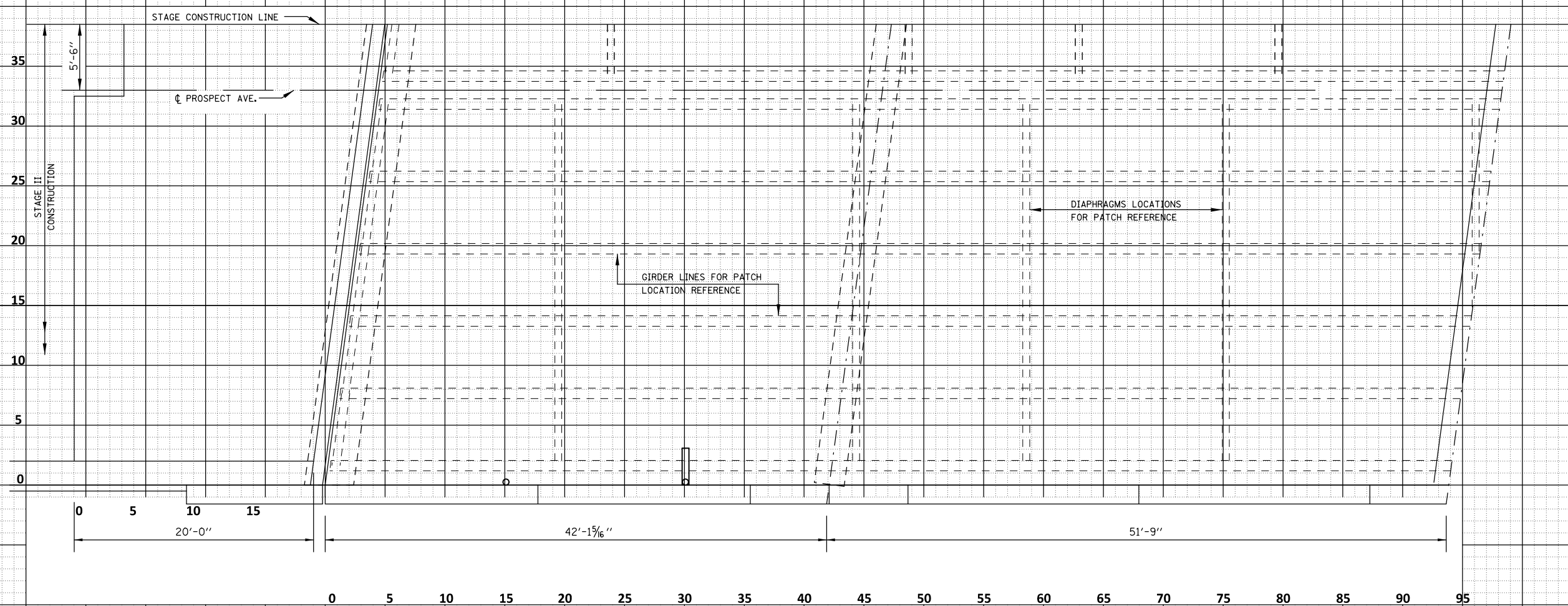
SCALE: SHEET 23 OF 38 SHEETS STA. TO STA.

F.A.I. RTE. 74	SECTION (14-HB)BDR	COUNTY CHAMPAIGN	TOTAL SHEETS 66	SHEET NO. 42
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				

**BRIDGE DECK PATCHING  
STAGE TWO: SPANS 1 & 2  
S.N. 010-0186**



**LEGEND**



MODEL: \\MODELNAME  
FILE: \\NAME\PROJECT\BIDDING\ILLINOIS\STATE\DOT\Documents\BIDDING\PROJECTS\0570D15\CADD\Bridges\Structures\0570D15\_eht\_bridges\_p186.ssm

PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)			PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)			PATCH NO.	SIZE	DECK SLAB REPAIR (PART DEPTH)		
		SQ FT	(FD TY 1)	(FD TY 2)			SQ FT	(FD TY 1)	(FD TY 2)			SQ FT	(FD TY 1)	(FD TY 2)

A VISUAL DECK SURVEY WAS PERFORMED ON MAY 11, 2018. SOME TIGHT TRANSVERSE CRACKS WERE VISIBLE, NOTHING THAT WOULD INDICATE THE NEED FOR FULL DEPTH PATCHING. FULL DEPTH PATCHING WAS THEN ESTIMATED AT 2% OF THE DECK AREA SHOULD AREAS FOR FULL-DEPTH PATCHING BE IDENTIFIED AFTER BRIDGE DECK SCARIFICATION.

THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK SLAB REPAIR ON THE A-BUILT PLANS. THE PREFERRED METHOD OF RECORDING THIS INFORMATION IS DATA RECORDING BY GPS OR TOTAL STATION, PROCESSED IN MICROSTATION. IF DESIRED, THE ENGINEER MAY RECORD BY HAND.

10 SCALE ON 11-17 SHEET

USER NAME = shawleres	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 12/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK PATCHING SHEET  
S.N. 010-0186**

SCALE: SHEET 24 OF 38 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	43
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				

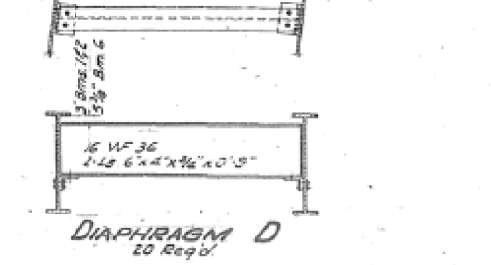
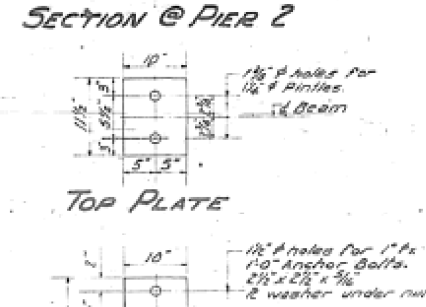
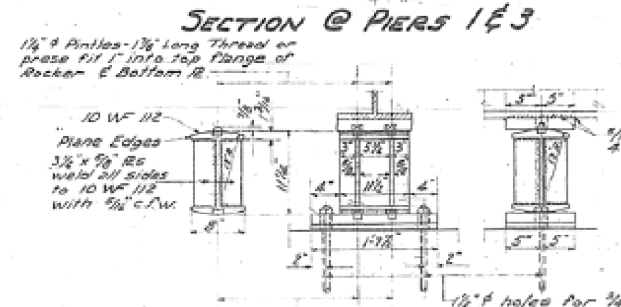
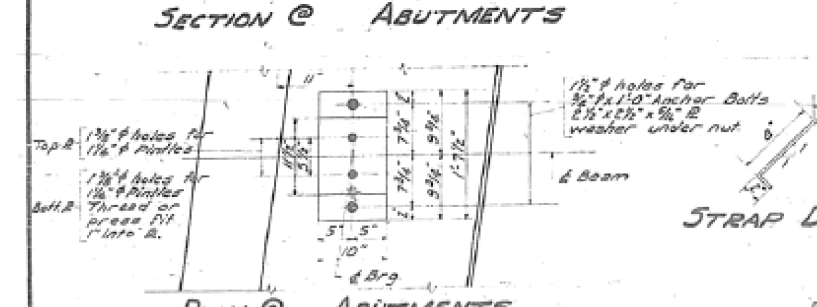
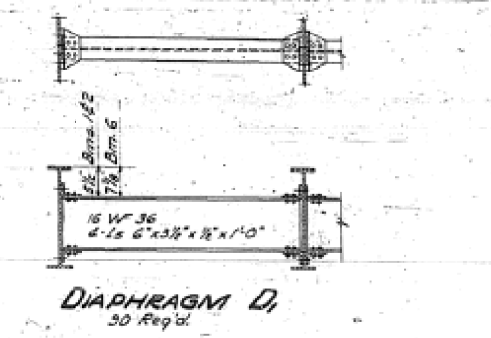
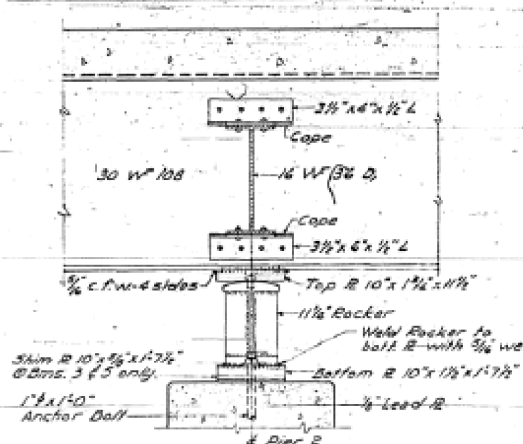
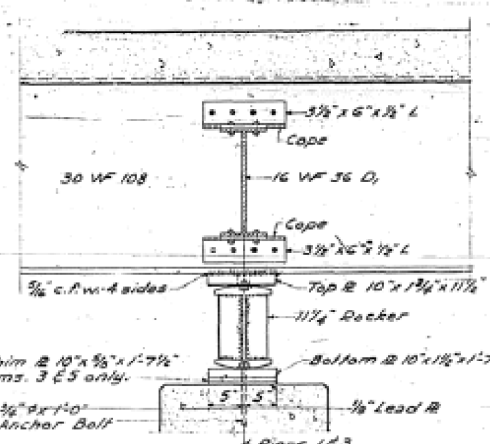
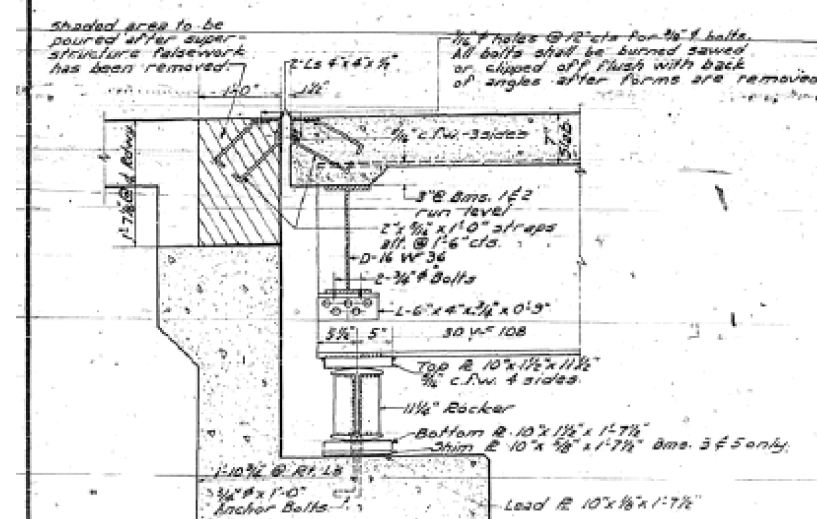
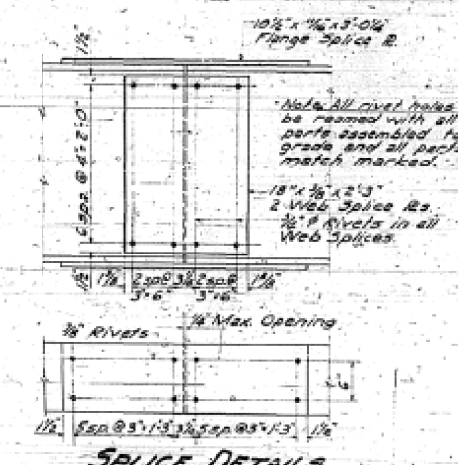
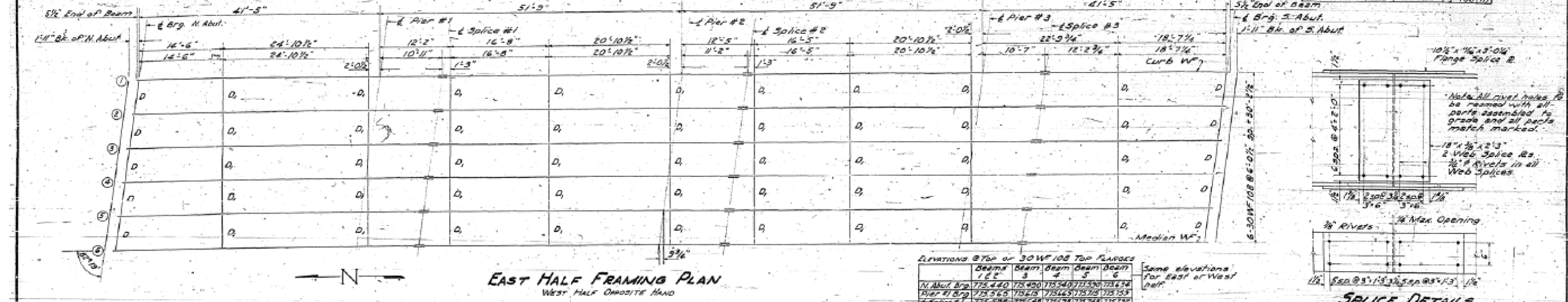




# AS-BUILT PLANS (1957) FOR INFORMATION ONLY

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14-39	14-HB	CHAMPAIGN	66	70
DATE	DATE	DATE	DATE	DATE
1957	1957	1957	1957	1957



DESIGNED	M. Fernandez	EXAMINED	[Signature]
CHECKED	Henry P. [Signature]	DRAWN	[Signature]
DRAWN	[Signature]	APPROVED	[Signature]
CHECKED	[Signature]		

**STRUCTURAL STEEL**  
**GRADE SEPARATION**  
PROSPECT AVE. EXT. OVER F.A. 39  
F.A. RT. 39 (U.S. RT. 150) SEC. 14-HB-F  
CHAMPAIGN COUNTY  
STATION 146+59.20

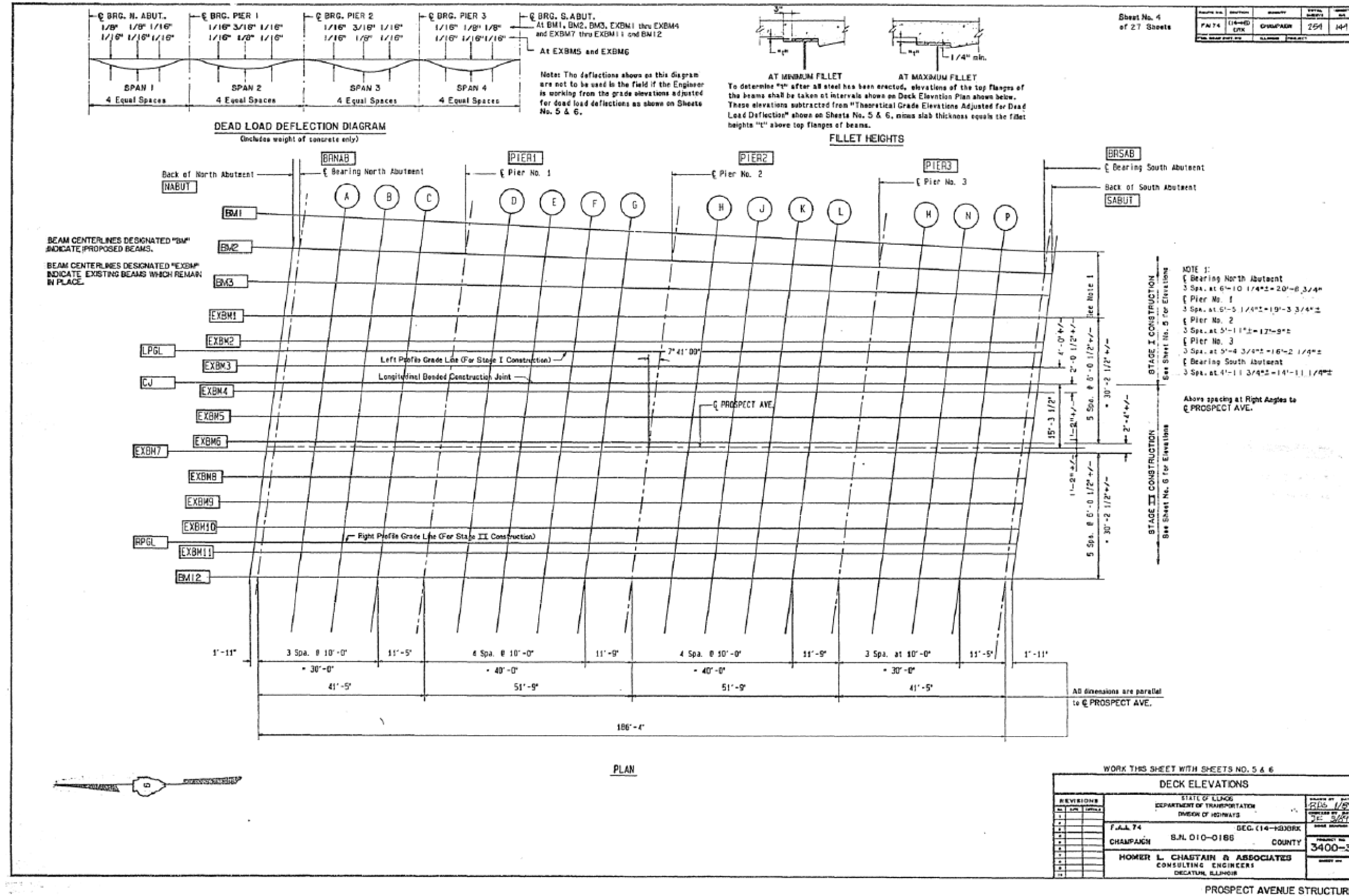
MODEL: ST00161001; FILE: 14-39-14-HB-F; PROJECT: 14-39-14-HB-F; SHEET: 70 OF 66





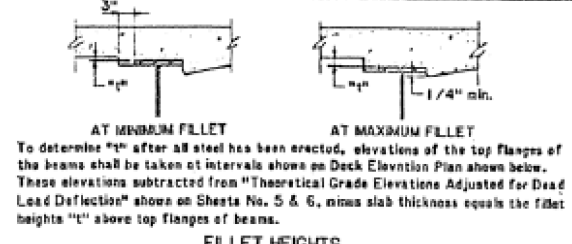


# AS-BUILT PLANS (1992) FOR INFORMATION ONLY



Sheet No. 4  
of 27 Sheets

PROJECT NO.	SECTION	DATE	SCALE
FA 74	(14-HB) BDR	CHAMPAIGN	25/1 1/4"



**NOTE 1:**  
 Bearing North Abutment  
 3 Spa. at 6'-10 1/4" = 20'-0 3/4"  
 Pier No. 1  
 3 Spa. at 5'-5 1/4" = 16'-3 3/4"  
 Pier No. 2  
 3 Spa. at 5'-11 1/2" = 17'-0"  
 Pier No. 3  
 3 Spa. at 5'-4 3/4" = 16'-2 1/4"  
 Bearing South Abutment  
 3 Spa. at 4'-11 3/4" = 14'-11 1/4"

WORK THIS SHEET WITH SHEETS NO. 5 & 6

REVISIONS		DATE	
NO.	DESCRIPTION	BY	DATE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS		DESIGNED BY R.L.C.
FA 74	SEC. (14-HB) BDR	CHECKED BY R.L.C.
CHAMPAIGN	S.J.L. D10-0166	DATE 12/6/2018
HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS		SHEET NO. 3400-3

USER NAME = shawleres	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**AS-BUILT PLANS  
FOR INFORMATION ONLY**

SCALE: SHEET 30 OF 38 SHEETS STA. TO STA.

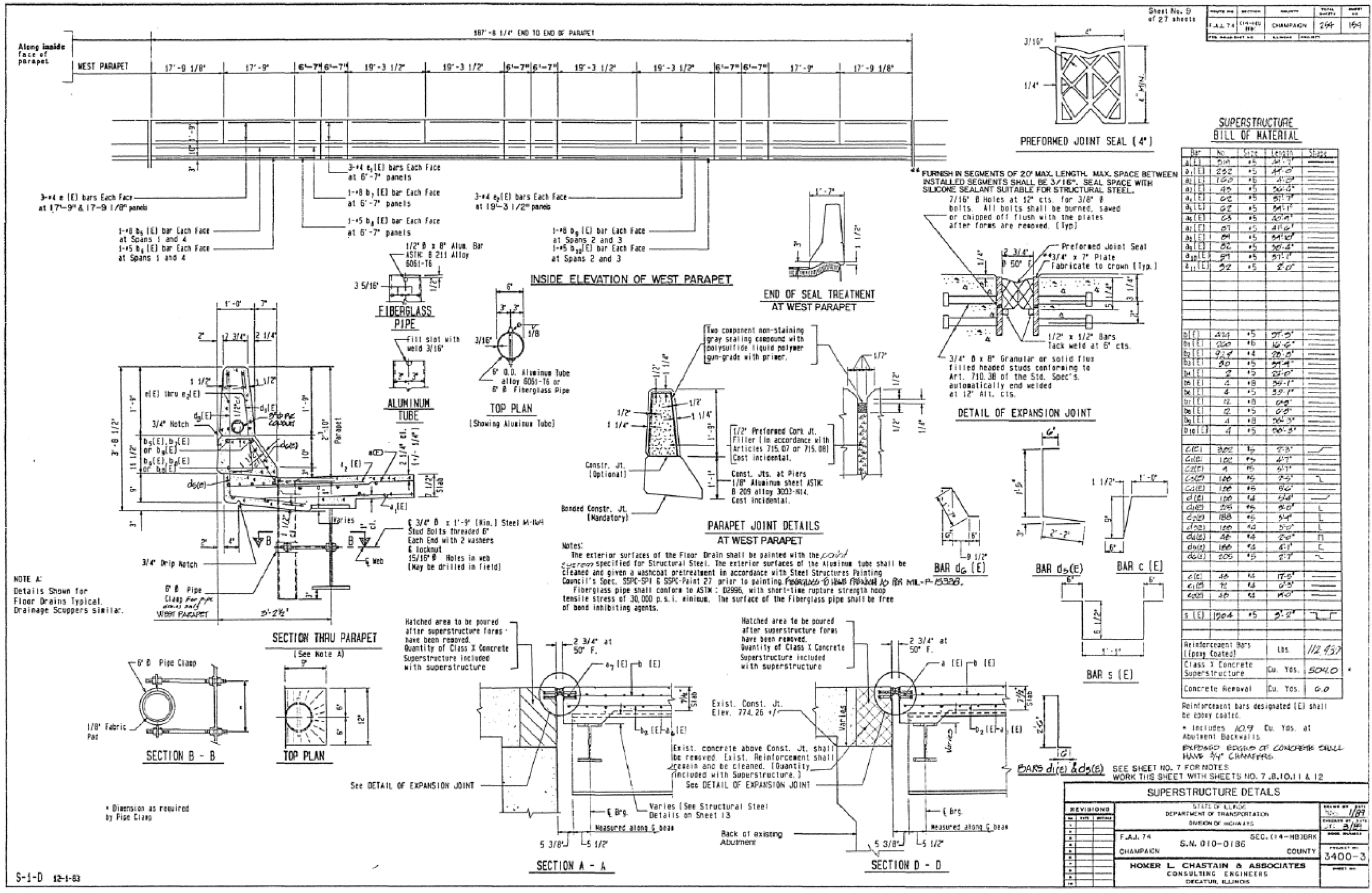
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	49
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				

MODEL: I:\MODEL\NAME: FILE: NAME: PROJECT: I:\PROJECTS\70D15\CADD\DATA\STRUCTURES\70D15\_01.dwg DATE: 12/6/2018

# AS-BUILT PLANS (1992) FOR INFORMATION ONLY

Sheet No. 9  
of 27 sheets

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.J. 74	CHAMPAIGN	CHAMPAIGN	294	154



### SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Weight
a <sub>1</sub> (E)	219	#5	14'-7"	
a <sub>2</sub> (E)	232	#5	14'-0"	
a <sub>3</sub> (E)	150	#5	14'-2"	
a <sub>4</sub> (E)	40	#5	20'-0"	
a <sub>5</sub> (E)	62	#5	21'-7"	
a <sub>6</sub> (E)	28	#5	20'-0"	
a <sub>7</sub> (E)	27	#5	11'-0"	
a <sub>8</sub> (E)	29	#5	21'-0"	
a <sub>9</sub> (E)	22	#5	20'-0"	
a <sub>10</sub> (E)	21	#5	21'-7"	
a <sub>11</sub> (E)	22	#5	2'-0"	
b <sub>1</sub> (E)	424	#5	27'-5"	
b <sub>2</sub> (E)	250	#5	16'-6"	
b <sub>3</sub> (E)	228	#4	20'-0"	
b <sub>4</sub> (E)	30	#5	27'-4"	
b <sub>5</sub> (E)	2	#5	22'-0"	
b <sub>6</sub> (E)	4	#5	20'-1"	
b <sub>7</sub> (E)	4	#5	33'-1"	
b <sub>8</sub> (E)	12	#5	24'-0"	
b <sub>9</sub> (E)	12	#5	24'-0"	
b <sub>10</sub> (E)	4	#5	20'-5"	
b <sub>11</sub> (E)	4	#5	20'-5"	
c <sub>1</sub> (E)	302	#5	2'-3"	
c <sub>2</sub> (E)	120	#5	27'-1"	
c <sub>3</sub> (E)	4	#5	27'-1"	
c <sub>4</sub> (E)	120	#5	2'-5"	
c <sub>5</sub> (E)	120	#5	9'-0"	
c <sub>6</sub> (E)	120	#5	14'-0"	
c <sub>7</sub> (E)	225	#5	9'-0"	
c <sub>8</sub> (E)	120	#5	9'-4"	
c <sub>9</sub> (E)	120	#5	27'-0"	
c <sub>10</sub> (E)	40	#5	20'-0"	
c <sub>11</sub> (E)	120	#5	27'-1"	
c <sub>12</sub> (E)	205	#5	2'-7"	
d <sub>1</sub> (E)	40	#5	17'-0"	
d <sub>2</sub> (E)	10	#5	10'-0"	
d <sub>3</sub> (E)	40	#5	14'-0"	
s <sub>1</sub> (E)	1204	#5	3'-2"	
Reinforcement Bars (Epoxy Coated)		Lbs.	112,437	
Class 3 Concrete Superstructure		Cu. Yds.	504.0	
Concrete Removal		Cu. Yds.	0.0	

S-1-D 12-1-83

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS  
FOR INFORMATION ONLY

PROSPECT AVENUE STRUCTURE

USER NAME = shawleres	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

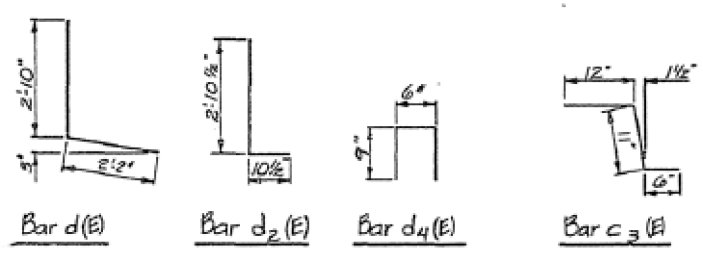
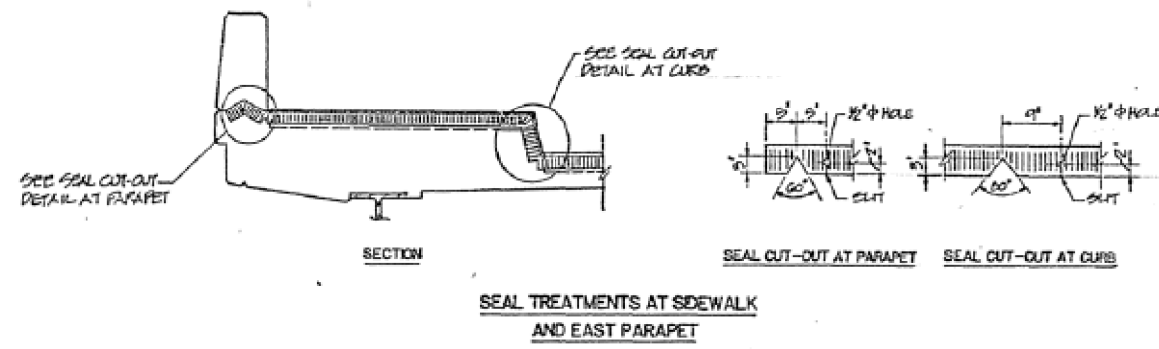
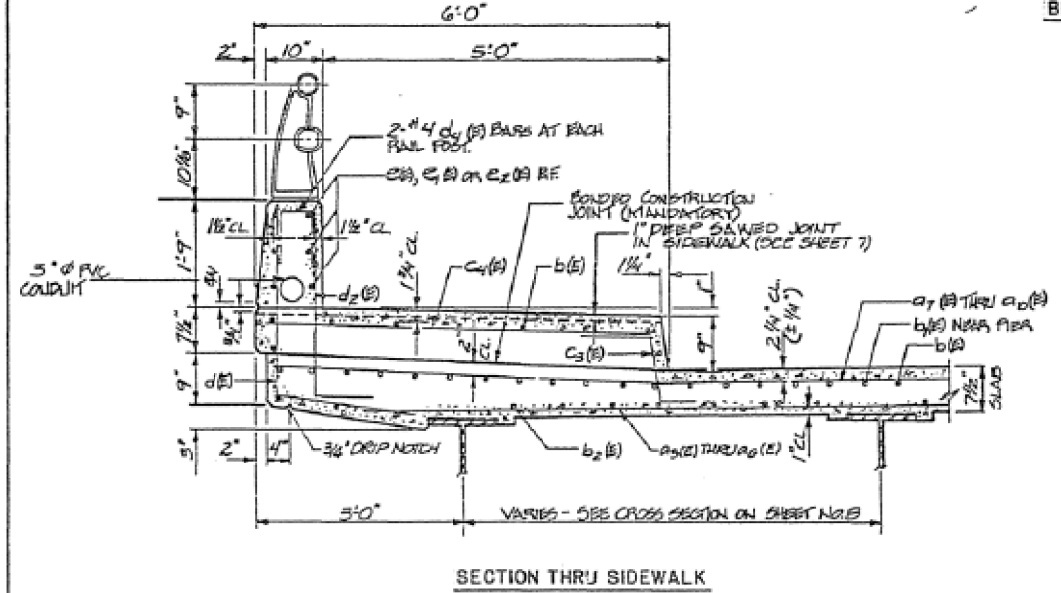
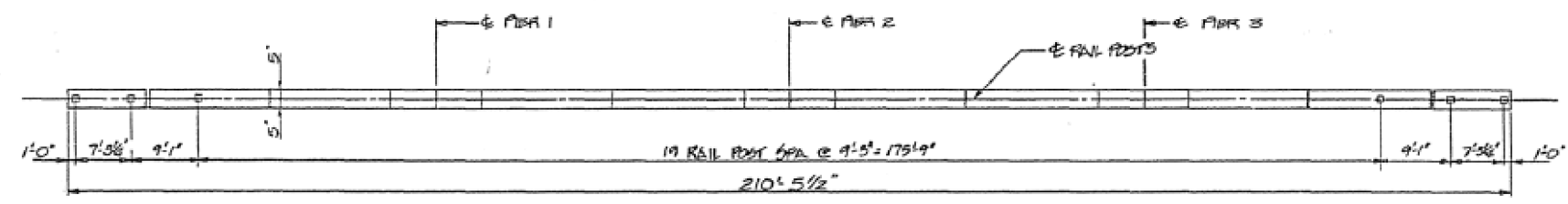
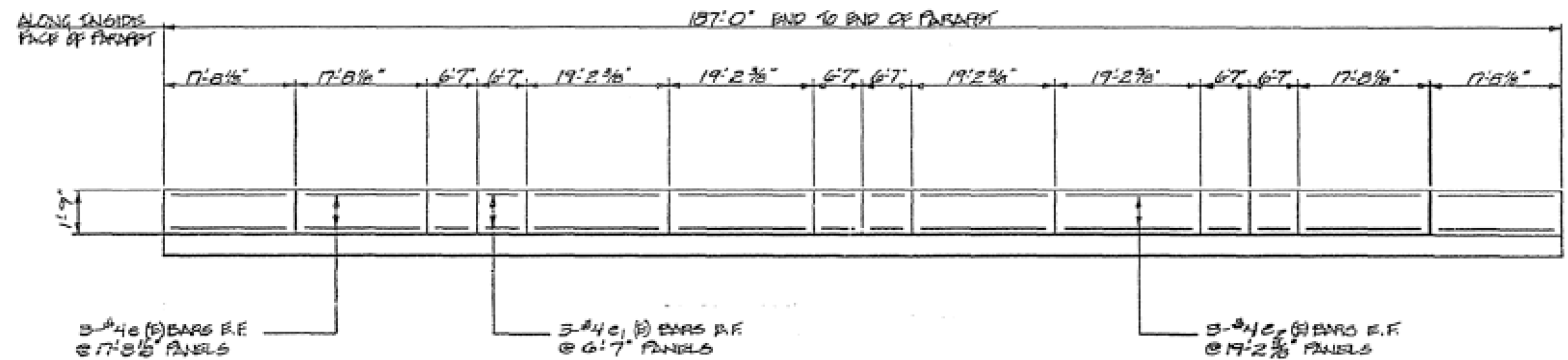
SCALE: SHEET 31 OF 38 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	50
CONTRACT NO. 70D15				
ILLINOIS FED. AID PROJECT				

MODEL: S:\MODEL\NAME: FILE NAME: PROJECT: S:\PROJECTS\0570015\CADD\DATA\STRUCTURES\0570015\_01.dwg DATE: 12/6/2018

# AS-BUILT PLANS (1992) FOR INFORMATION ONLY

Sheet No. 10 of 27 sheets	PROJECT NO. F.A.A. 74	SECTION 114-HB	COUNTY CHAMPAIGN	TOTAL SHEETS 66	SHEET NO. 51
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SEE SHEET NO. 7 FOR NOTES  
WORK THIS SHEET WITH SHEETS NO. 7 THRU 9, 11 & 12

REVISIONS		SUPERSTRUCTURE DETAILS		
NO.	DATE	BY	REVISION	DATE
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS		PROJECT NO. 3400-3	
F.A.A. 74	SEC. (14-HB) BRK	DRAWN BY JKR 3-87	
CHAMPAIGN	S.N. 010-0186	CHECKED BY	
HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS		COUNTY	

PROSPECT AVENUE STRUCTURE

MODEL: ST0001.MXD  
FILE NAME: P:\PROJECTS\70D15\CADD\DATA\STRUCTURES\70D15\_sht\_bridge\_abas.dgn  
PROJECT: 70D15 CHAMPAIGN COUNTY BRIDGE  
DATE: 12/6/2018

USER NAME = shawleres	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

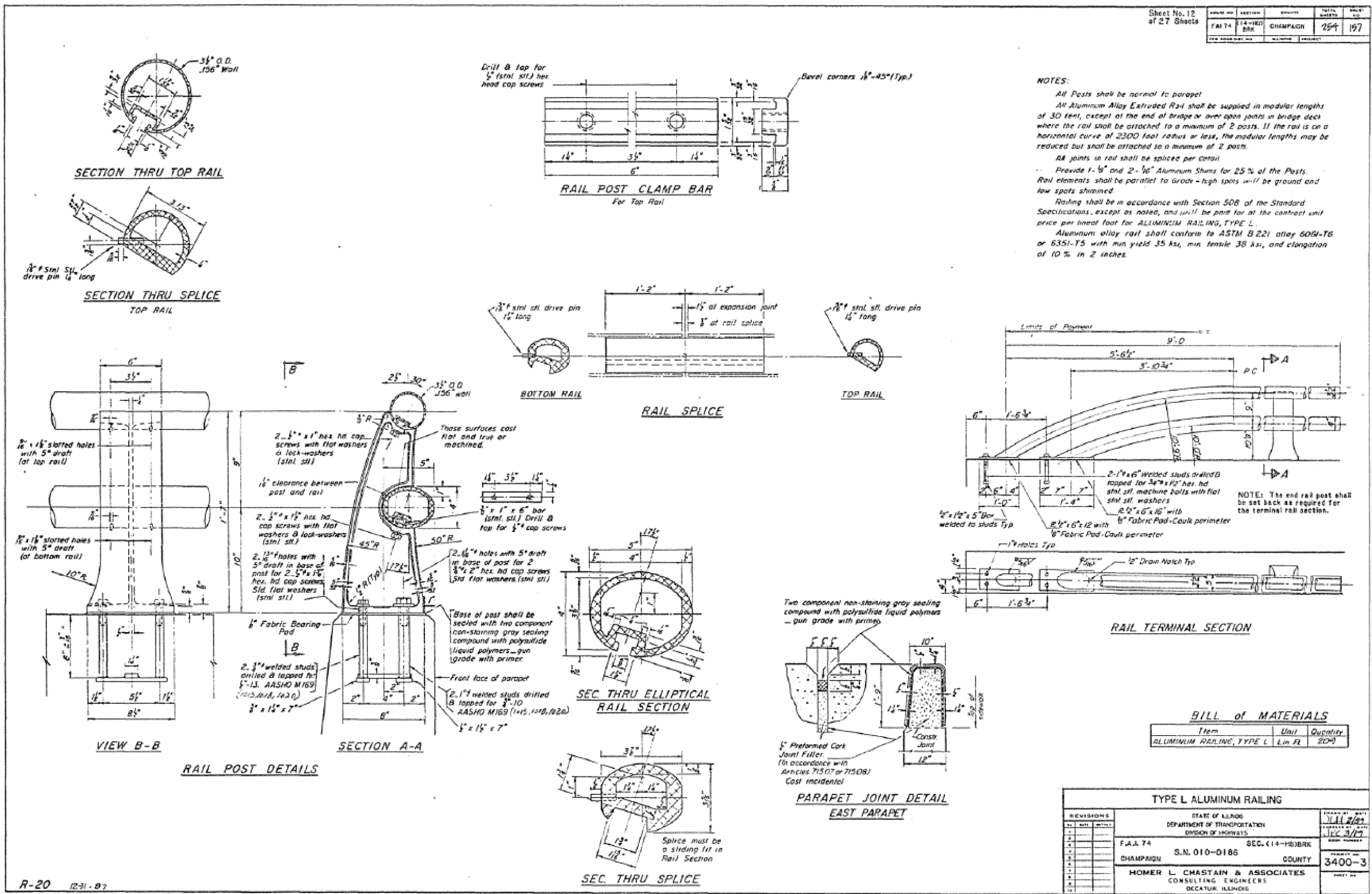
**AS-BUILT PLANS  
FOR INFORMATION ONLY**

SCALE: SHEET 32 OF 38 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	51
CONTRACT NO. 70D15				
ILLINOIS FED. AID PROJECT				

# AS-BUILT PLANS (1992) FOR INFORMATION ONLY

Sheet No. 12 of 27 Sheets		SECTION	QUANTITY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	SEC. (14-HB) BDR	CHAMPAIGN	254	157	



**NOTES:**

All Posts shall be normal to parapet

All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

All joints in rail shall be spaced per Detail

Provide 1- $\frac{1}{8}$ " and 2- $\frac{1}{16}$ " Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade - high spots will be ground and low spots shimmed.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per lineal foot for ALUMINUM RAILING, TYPE L.

Aluminum alloy rail shall conform to ASTM B 221 alloy 6061-T6 or 6351-T5 with min yield 35 ksi, min tensile 38 ksi, and elongation of 10% in 2 inches.

**BILL of MATERIALS**

Item	Unit	Quantity
ALUMINUM RAILING, TYPE L	Lin. Ft.	209

REVISIONS			TYPE L ALUMINUM RAILING	
NO.	DATE	DESCRIPTION	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	ISSUED BY JLL 2/21 CHECKED BY JLC 3/17
1			F.A.I. 74	SEC. (14-HB) BDR
2			CHAMPAIGN	S.M. 010-0186 COUNTY
3			HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS	PROJECT NO. 3400-3

R-20 12-31-87

MODEL: STODOLNIAK; FILE NAME: P:\PROJECTS\70D15\CADD\Drawings\Structures\70D15\_sht\_bridge\_alrns.dwg

USER NAME = shawleres	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 12/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>AS-BUILT PLANS FOR INFORMATION ONLY</b>	
SCALE:	SHEET 33 OF 38 SHEETS STA. TO STA.

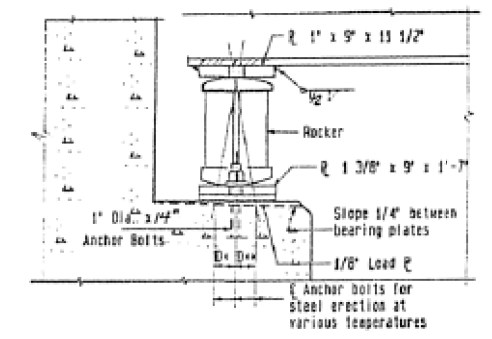
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74	(14-HB)BDR	CHAMPAIGN	66	52
			CONTRACT NO. 70D15	
		ILLINOIS	FED. AID PROJECT	



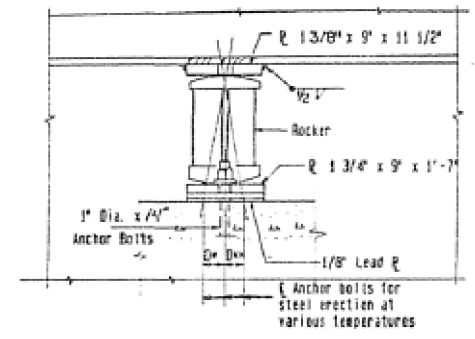
# AS-BUILT PLANS (1992) FOR INFORMATION ONLY

Sheet No. 14  
of 27 Sheets

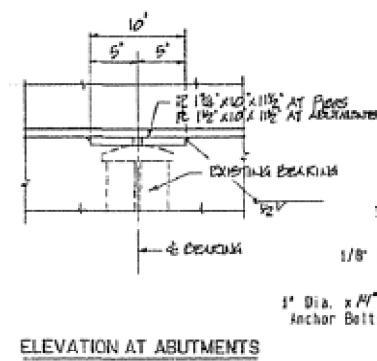
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.L. 74	(14-HB)BDR	CHAMPAIGN	264	154
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		



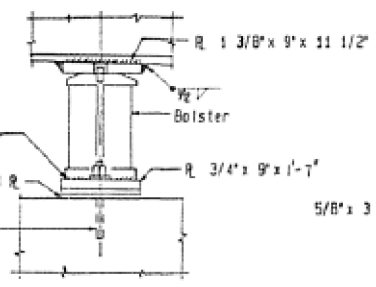
**ELEVATION  
AT NORTH AND SOUTH ABUTMENTS**



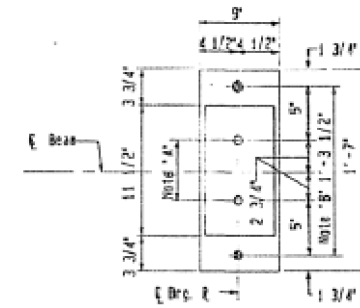
**ELEVATION  
AT PIERS 1 AND 3**



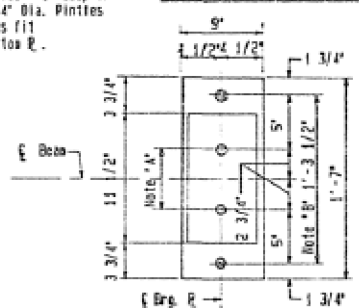
**ELEVATION AT ABUTMENTS  
AND PIERS  
BM12**



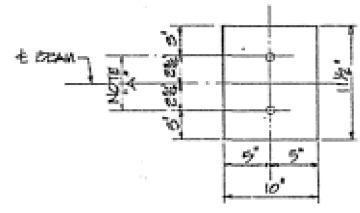
**ELEVATION  
AT PIER 2**



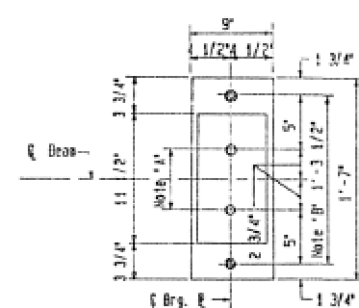
**PLAN  
AT ABUTMENTS  
BM1, BM2 & BM3**



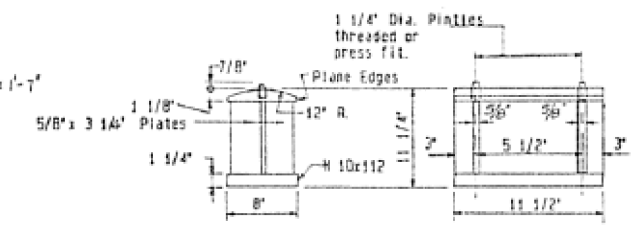
**PLAN  
AT PIERS 1 AND 3  
BM1, BM2 & BM3**



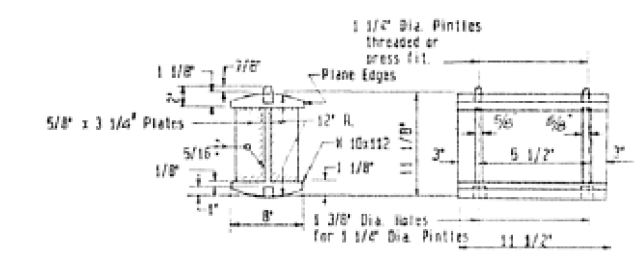
**PLAN AT ABUTMENTS  
AND PIERS  
BM12**



**PLAN  
AT PIER 2  
BM1, BM2 & BM3**



**BOLSTER**



**ROCKER**



**PINTLE**

Note 'A'  
1 3/8\"/>

Note 'B'  
1 1/2\"/>

**NOTES FOR SETTING OF ANCHOR BOLTS  
AT EXPANSION BEARINGS**  
a.) D\* (Side of brg. away from fixed brg.)  
D\* = 1/8\"/>

D\*\* (Side of brg. toward fixed brg.)  
D\*\* = 1/8\"/>

b.) After Beams have been erected and dimensions D\* & D\*\* determined, holes shall be drilled and anchor bolts shall be installed as shown on Sheet # 24. All fixed anchor bolts may be built into the masonry.

	0.4 Span 1	Pier 1	0.5 Span 2	Pier 2	0.5 Span 3	Pier 3	0.6 Span 4
Is (in <sup>4</sup> )	4120	4120	4120	4120	4120	4120	4120
Ss (in <sup>3</sup> )	324	324	324	324	324	324	324
Z (in <sup>2</sup> )							
K (k/ft)	*	*	*	*	*	*	*
M (k)	114	219	105	221	102	111	107
K1 (k)	235	164	224	160	205	160	181
M (top) (k)	61	55	65	52	60	45	93
M (HL) (k)	300	390	462	387	442	335	560
M <sub>u</sub> (k)	225	191	121	115	101	604	291
M <sub>u</sub> (k)							
f <sub>s</sub> @ (k.e.i.)	4.84	7.77	2.46	1.62	2.12	2.49	2.05
f <sub>s</sub> 5/3 [L + 1] (k.s.i.)	10.24	14.44	17.60	14.12	10.12	12.22	10.22
f <sub>s</sub> (overload) (k.s.i.)	22.50	22.21	21.22	21.74	14.86	14.15	12.61
f <sub>s</sub> (Total) (k.s.i.)	29.39	29.20	27.90	28.26	25.97	24.94	25.23

\* VARIES FROM 1.03 K/FT AT NORTH ABUTMENT TO 0.84 K/FT AT SOUTH ABUTMENT

	N. ABUT.	PIER 1	PIER 2	PIER 3	S. ABUT.
R <sub>1</sub> (k)	15.4	50.5	45.3	45.4	13.2
R <sub>2</sub> (k)	55.3	41.2	34.2	34.0	51.2
R <sub>3</sub> (k)	4.8	11.4	11.2	11.0	4.1
R (Total) (k)	54.0	102.6	89.4	89.4	59.7

I<sub>x</sub> and S<sub>x</sub> are the moment of inertia and section modulus of the steel section used in computing f<sub>s</sub> (Total and Overload).

Z is the plastic section modulus used to determine the fully plastic moment in the non-composite areas.  
M<sub>u</sub> (Applied Moment) = 1.3M<sub>u</sub> + M<sub>s</sub> + 5/3 (M<sub>A</sub> + I)  
M<sub>u</sub> is the full Plastic Moment Capacity for Impact, Braced section.  
f<sub>s</sub>(overload) is the sum of the stresses due to M<sub>u</sub> + M<sub>s</sub> + 5/3 (M<sub>A</sub> + I)  
f<sub>s</sub> (Total) is the sum of the stresses due to 1.3M<sub>u</sub> + M<sub>s</sub> + 5/3 (M<sub>A</sub> + I)

REVISIONS		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS		DESIGNED BY 12-25-1987
1		F.A.L. 74	SEC. (14-HB)BRK	PROJECT NO. 3400-3
2		CHAMPAIGN	COUNTY	SHEET NO.
3		HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS DECATUR, ILLINOIS		

PROSPECT AVENUE STRUCTURE

1-2-6 12-1-83

USER NAME = shawleres	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 "/td> <td>CHECKED -</td> <td>REVISED -</td>	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

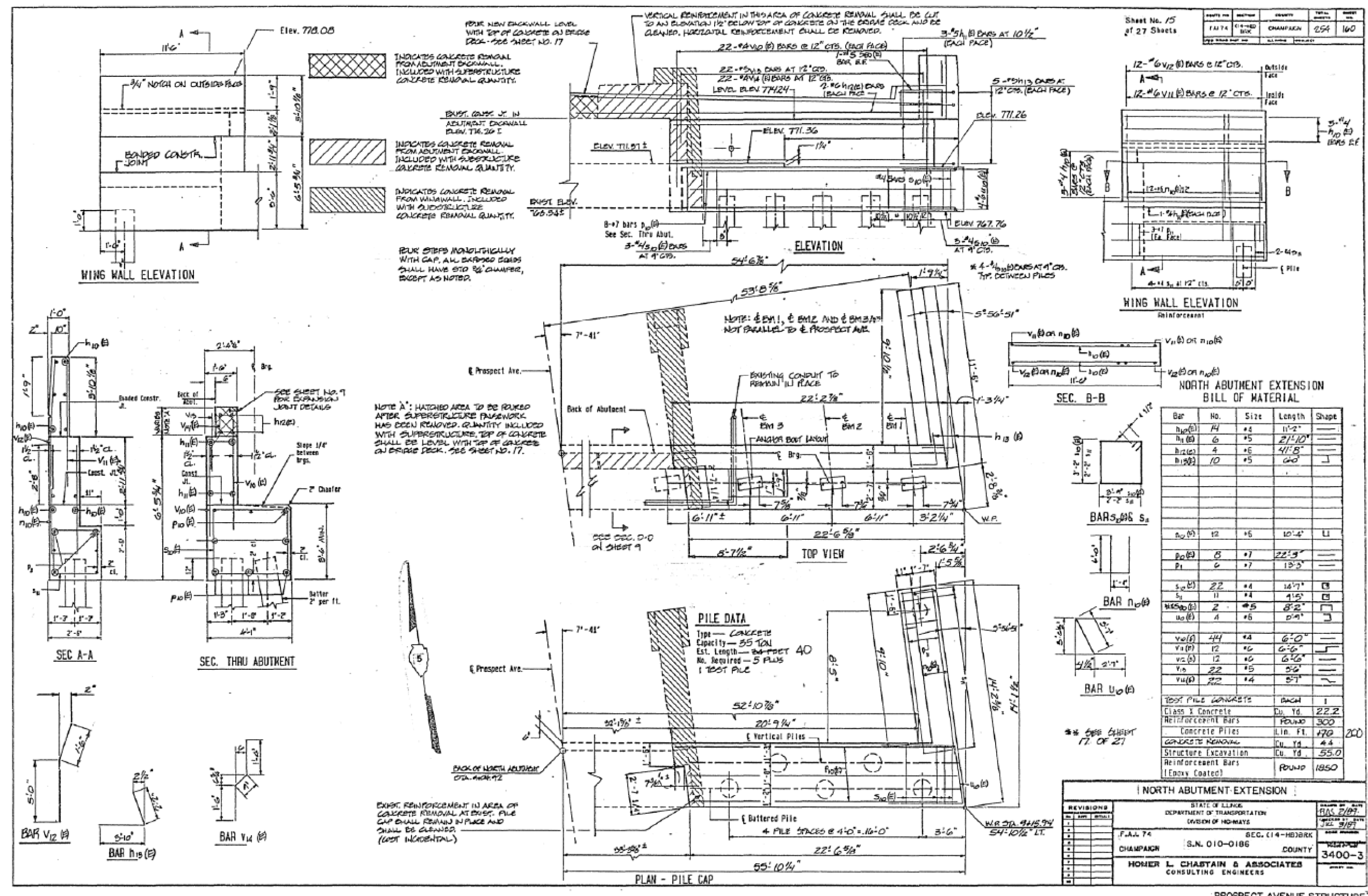
**AS-BUILT PLANS  
FOR INFORMATION ONLY**

SCALE: SHEET 35 OF 38 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	54
			CONTRACT NO. 70D15	
			ILLINOIS FED. AID PROJECT	

MODEL: S:\MODEL\NAME: FILE NAME: PROJECT: S:\PROJECTS\70D15\CADD\DATA\STRUCTURES\70D15\_01.dwg DATE: 12/6/2018

# AS-BUILT PLANS (1992) FOR INFORMATION ONLY



SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14174	C14-HB	CHAMPAIGN	254	160

### NORTH ABUTMENT EXTENSION BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
$h_{10}(B)$	14	#4	11'-2"	—	
$h_{11}(B)$	6	#5	21'-10"	—	
$h_{12}(B)$	4	#6	41'-8"	—	
$h_{13}(B)$	10	#5	2'-0"	—	
$h_{14}(B)$	12	#5	10'-4"	U	
$h_{15}(B)$	8	#7	22'-9"	—	
$h_{16}(B)$	6	#7	13'-3"	—	
$s_{10}(B)$	22	#4	14'-7"	□	
$s_{11}(B)$	11	#4	11'-5"	□	
$u_{10}(B)$	2	#5	8'-2"	□	
$u_{11}(B)$	4	#5	0'-9"	□	
$v_{10}(B)$	44	#4	6'-0"	—	
$v_{11}(B)$	12	#6	6'-6"	—	
$v_{12}(B)$	12	#6	6'-6"	—	
$v_{13}(B)$	22	#5	5'-0"	—	
$v_{14}(B)$	22	#4	5'-7"	—	
TEST PILE CONCRETE				BATCH	1
Class I Concrete				Cu. Yd.	22.2
Reinforcement Bars				FOUND	300
Concrete Piles				LIN. FT.	170
CONCRETE REMOVAL				Cu. Yd.	44
Structure Excavation				Cu. Yd.	55.0
Reinforcement Bars (Epoxy Coated)				FOUND	1850

<b>REVISIONS</b> NO. DATE BY 1 11/17/92 JEL 2 11/17/92 JEL 3 11/17/92 JEL 4 11/17/92 JEL 5 11/17/92 JEL 6 11/17/92 JEL 7 11/17/92 JEL 8 11/17/92 JEL 9 11/17/92 JEL 10 11/17/92 JEL 11 11/17/92 JEL 12 11/17/92 JEL 13 11/17/92 JEL 14 11/17/92 JEL 15 11/17/92 JEL 16 11/17/92 JEL 17 11/17/92 JEL 18 11/17/92 JEL 19 11/17/92 JEL 20 11/17/92 JEL 21 11/17/92 JEL 22 11/17/92 JEL 23 11/17/92 JEL 24 11/17/92 JEL 25 11/17/92 JEL 26 11/17/92 JEL 27 11/17/92 JEL 28 11/17/92 JEL 29 11/17/92 JEL 30 11/17/92 JEL 31 11/17/92 JEL 32 11/17/92 JEL 33 11/17/92 JEL 34 11/17/92 JEL 35 11/17/92 JEL 36 11/17/92 JEL 37 11/17/92 JEL 38 11/17/92 JEL 39 11/17/92 JEL 40 11/17/92 JEL 41 11/17/92 JEL 42 11/17/92 JEL 43 11/17/92 JEL 44 11/17/92 JEL 45 11/17/92 JEL 46 11/17/92 JEL 47 11/17/92 JEL 48 11/17/92 JEL 49 11/17/92 JEL 50 11/17/92 JEL 51 11/17/92 JEL 52 11/17/92 JEL 53 11/17/92 JEL 54 11/17/92 JEL 55 11/17/92 JEL 56 11/17/92 JEL 57 11/17/92 JEL 58 11/17/92 JEL 59 11/17/92 JEL 60 11/17/92 JEL 61 11/17/92 JEL 62 11/17/92 JEL 63 11/17/92 JEL 64 11/17/92 JEL 65 11/17/92 JEL 66 11/17/92 JEL 67 11/17/92 JEL 68 11/17/92 JEL 69 11/17/92 JEL 70 11/17/92 JEL 71 11/17/92 JEL 72 11/17/92 JEL 73 11/17/92 JEL 74 11/17/92 JEL 75 11/17/92 JEL 76 11/17/92 JEL 77 11/17/92 JEL 78 11/17/92 JEL 79 11/17/92 JEL 80 11/17/92 JEL 81 11/17/92 JEL 82 11/17/92 JEL 83 11/17/92 JEL 84 11/17/92 JEL 85 11/17/92 JEL 86 11/17/92 JEL 87 11/17/92 JEL 88 11/17/92 JEL 89 11/17/92 JEL 90 11/17/92 JEL 91 11/17/92 JEL 92 11/17/92 JEL 93 11/17/92 JEL 94 11/17/92 JEL 95 11/17/92 JEL 96 11/17/92 JEL 97 11/17/92 JEL 98 11/17/92 JEL 99 11/17/92 JEL 100 11/17/92 JEL		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS F.A.L. 74 CHAMPAIGN COUNTY S.N. 010-0186 HONOR L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS	DRAWN BY <b>FLS EBP</b> CHECKED BY <b>JEL 5/87</b> SCALE <b>3400-3</b>
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USER NAME = shawleres	DESIGNED -	REVISED -
DRAWN -	REVISED -	REVISED -
PLOT SCALE = 40.0000 "/in.	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

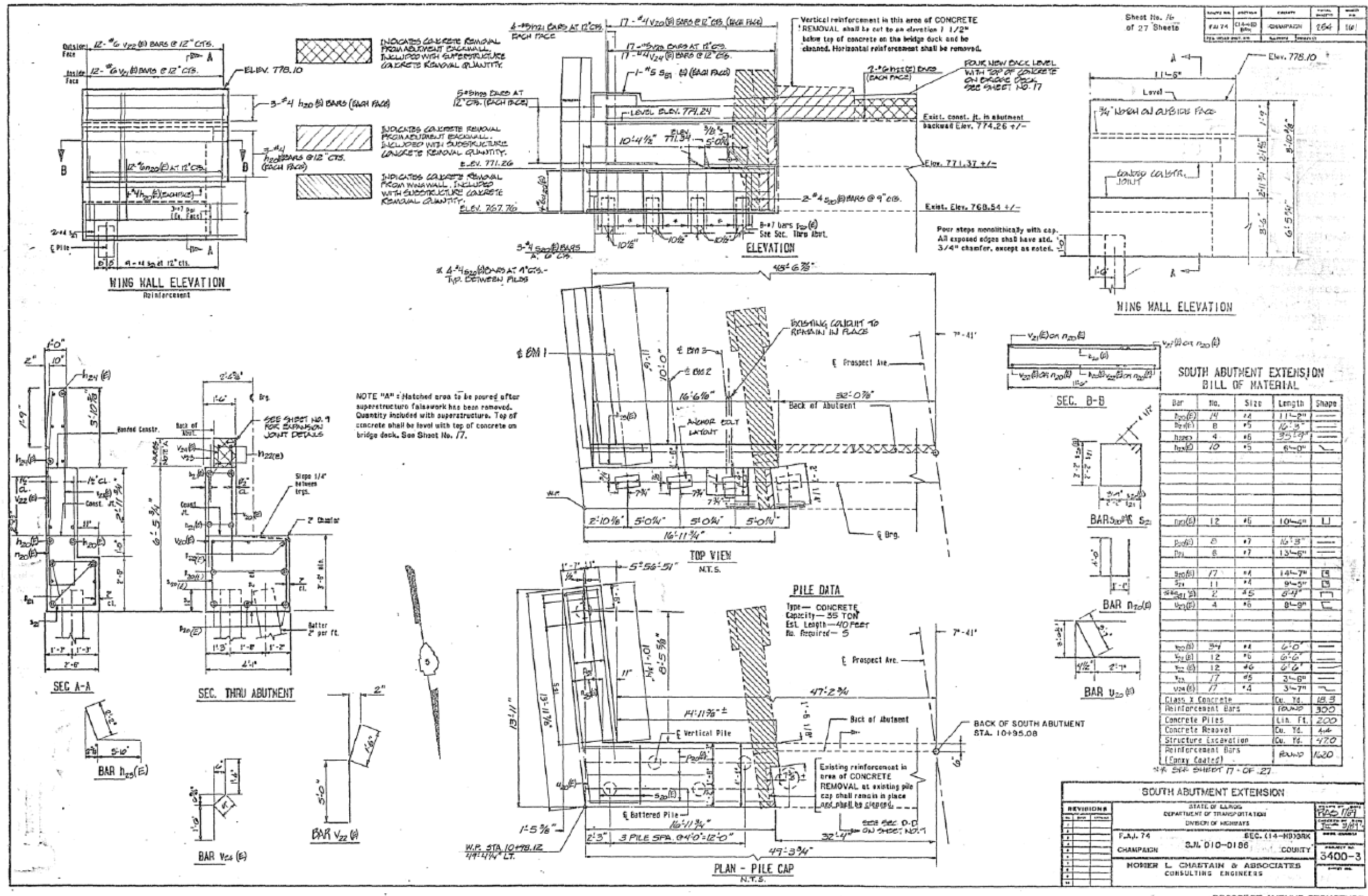
**AS-BUILT PLANS  
FOR INFORMATION ONLY**

SCALE: SHEET 36 OF 38 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	55
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70D15	

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# AS-BUILT PLANS (1992) FOR INFORMATION ONLY



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	DRAWN -	REVISED -
PLOT SCALE = 40.0000 "/td> <td>CHECKED -</td> <td>REVISED -</td>	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**AS-BUILT PLANS  
FOR INFORMATION ONLY**

SCALE: SHEET 37 OF 38 SHEETS STA. TO STA.

F.A.I. RTE. 74	SECTION (14-HB)BDR	COUNTY CHAMPAIGN	TOTAL SHEETS 66	SHEET NO. 56
CONTRACT NO. 70D15			ILLINOIS FED. AID PROJECT	

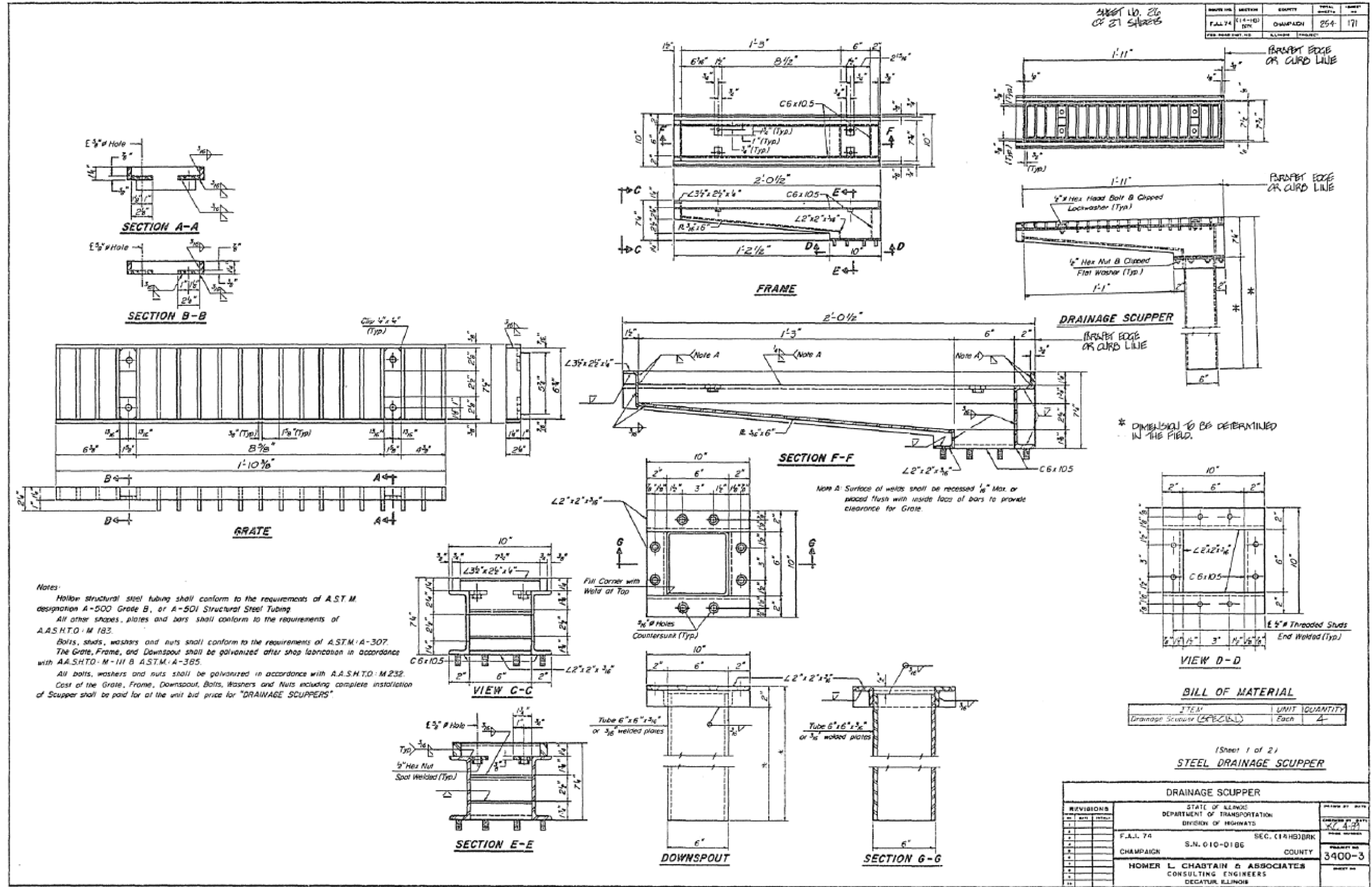
MODEL: SHAWLERES; FILE NAME: PROSPECT.AVE.BDR.DWG; PROJECT: 70D15; CADD: Structures; 70D15.ctb; bridge; shawleres



# AS-BUILT PLANS (1992) FOR INFORMATION ONLY

SHEET NO. 26  
OF 27 SHEETS

DATE	SECTION	QUANTITY	TOTAL SHEETS	SHEET NO.
F.A.L. 74	(14-HB) BDR	CHAMPAIGN	254	171
FOR ROAD DIST. NO. ILLINOIS PROJECT				



**Notes:**  
 Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 Grade B, or A-501 Structural Steel Tubing.  
 All other shapes, plates and bars shall conform to the requirements of A.A.S.H.T.O.-M 183.  
 Bolts, studs, washers and nuts shall conform to the requirements of A.S.T.M.-A-307.  
 The Grate, Frame, and Downspout shall be galvanized after shop fabrication in accordance with A.A.S.H.T.O.-M-III B A.S.T.M.-A-385.  
 All bolts, washers and nuts shall be galvanized in accordance with A.A.S.H.T.O.-M 232.  
 Cost of the Grate, Frame, Downspout, Bolts, Washers and Nuts including complete installation of Scupper shall be paid for at the unit bid price for "DRAINAGE SCUPPERS".

**Note A:** Surface of welds shall be recessed 1/16" Max. or placed flush with inside face of bars to provide clearance for Grate.

\* DIMENSIONS TO BE DETERMINED IN THE FIELD.

MODEL: SHAWLERNAME  
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 PROJECT: CHAMPAIGN COUNTY  
 SHEET: 3400-3

USER NAME = shawleres	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 "/in.	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

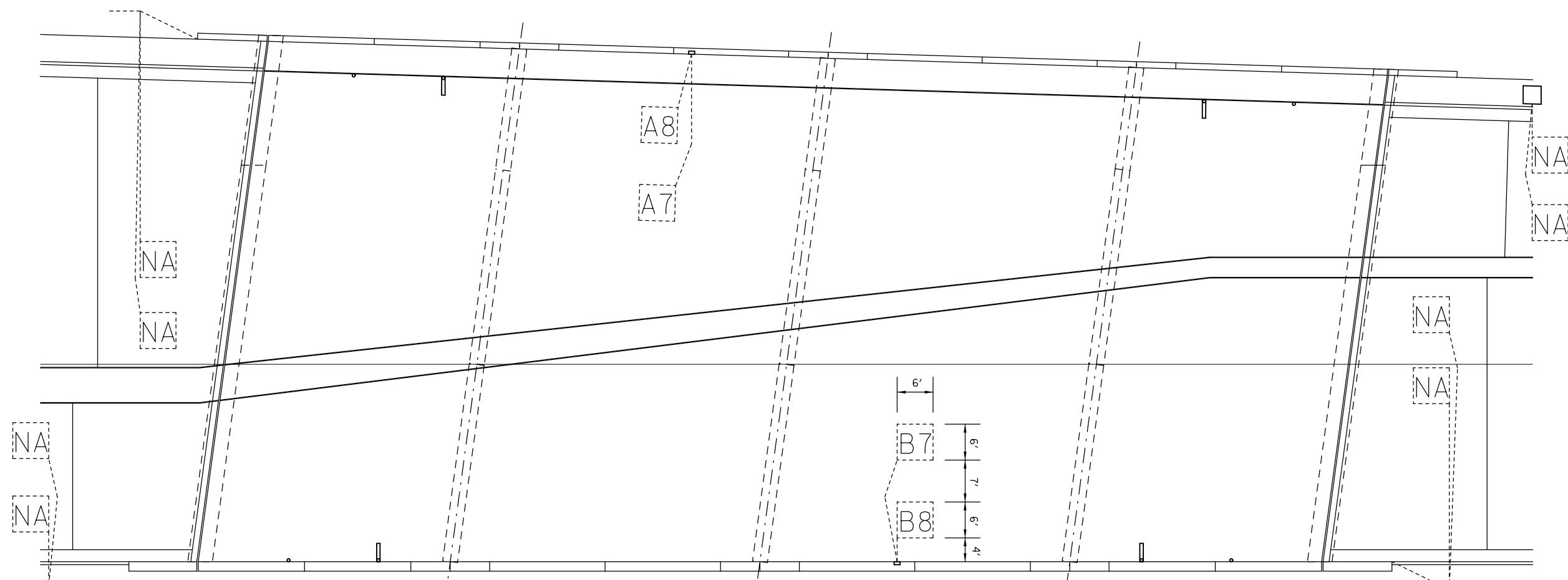
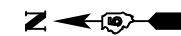
AS-BUILT PLANS  
FOR INFORMATION ONLY

SCALE: SHEET 38 OF 38 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	57
CONTRACT NO. 70D15				
ILLINOIS FED. AID PROJECT				

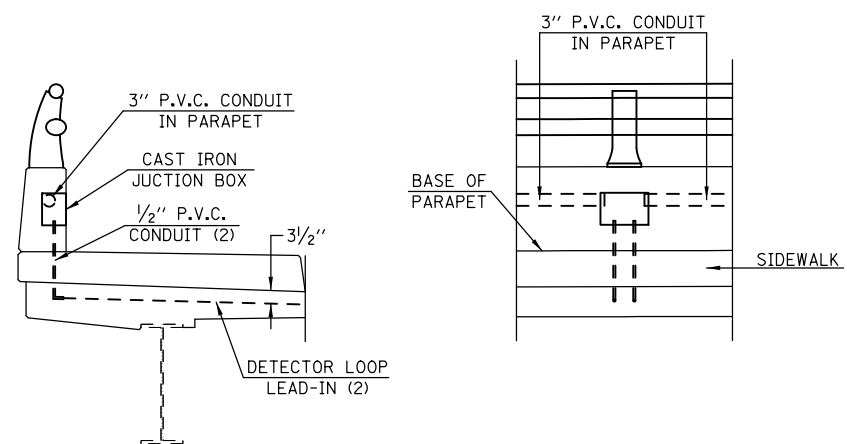
# TRAFFIC SIGNAL DETECTOR LOOP DETAILS

S.N. 010-0186

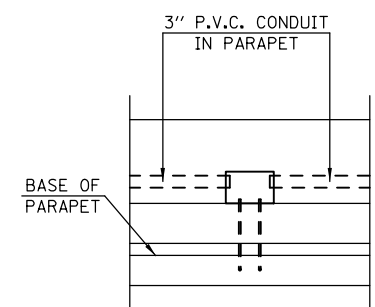


PLAN VIEW

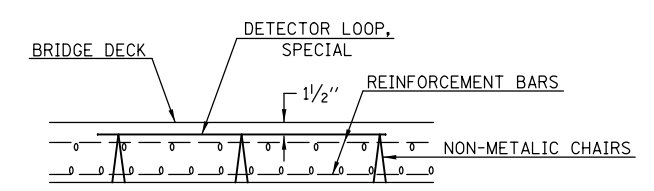
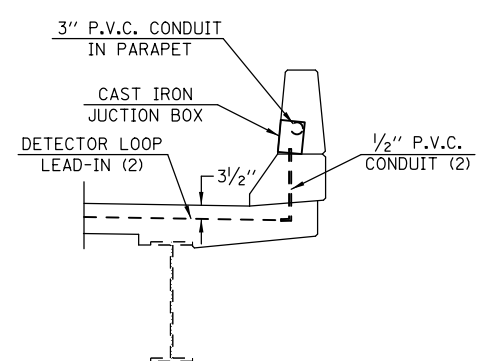
NOTE: DETECTOR LOOP SHALL ONLY BE REPLACED IF DAMAGED DURING BRIDGE DECK SCARIFICATION  $\frac{3}{4}$ ".



JUNCTION BOX DETAIL  
EAST PARAPET



JUNCTION BOX DETAIL  
WEST PARAPET



DETAIL OF DETECTOR LOOP, SPECIAL

BILL OF MATERIALS

ITEM	UNIT	TOTAL
DETECTOR LOOP, SPECIAL	FOOT	140.0

MODEL: 41001.DWG  
FILE NAME: P:\PROJECTS\70D15\CADD\DATA\Structures\70D15\_eht\_crdplan.dwg

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PLOT SCALE = 40,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 12/6/2018	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

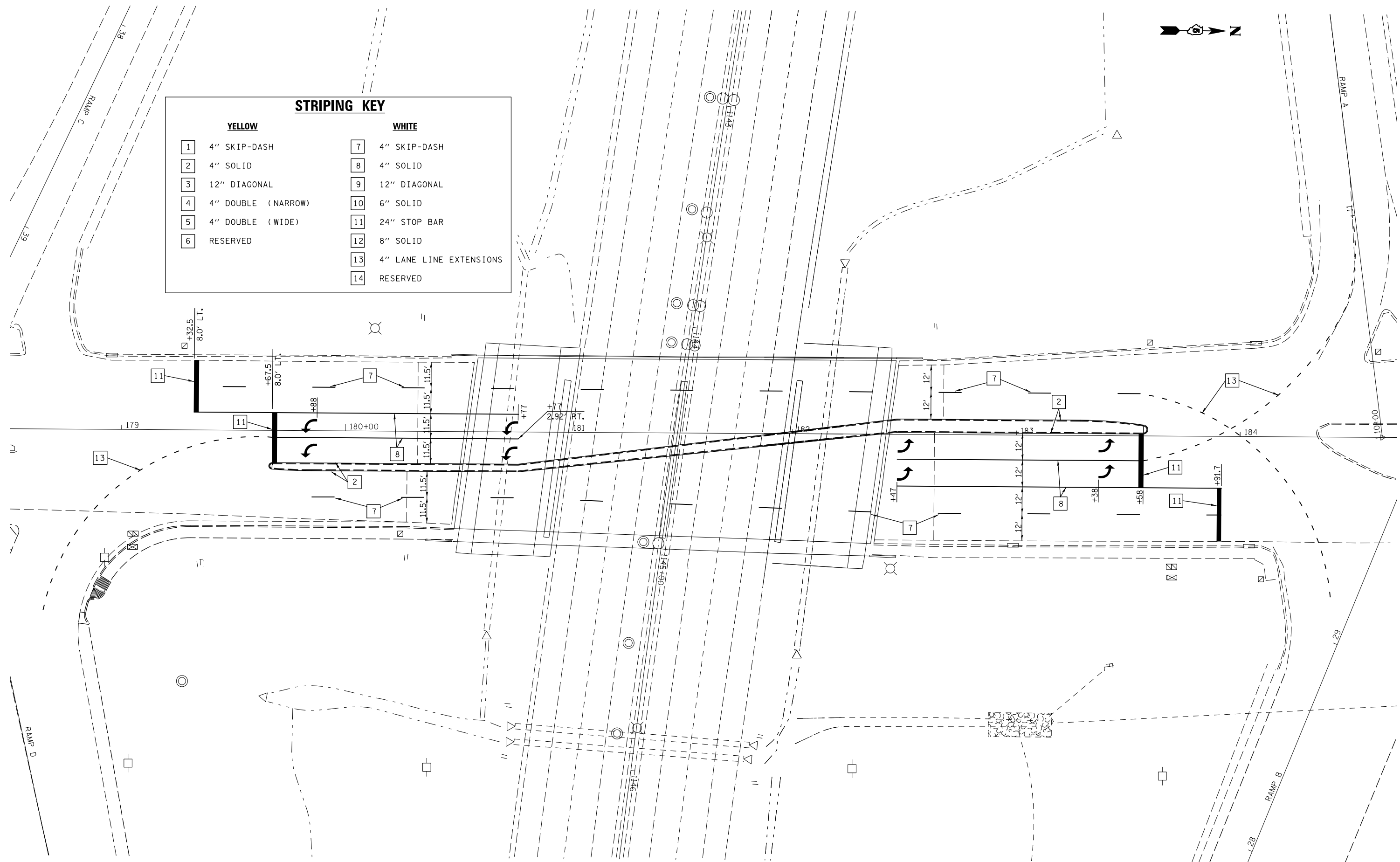
TRAFFIC SIGNAL DETECTOR LOOP DETAILS  
S.N. 010-0186

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

F.A.I. RTE. 74	SECTION (14-HB)BDR	COUNTY CHAMPAIGN	TOTAL SHEETS 66	SHEET NO. 58
			CONTRACT NO. 70D15	
ILLINOIS FED. AID PROJECT				



STRIPING KEY	
YELLOW	WHITE
1 4" SKIP-DASH	7 4" SKIP-DASH
2 4" SOLID	8 4" SOLID
3 12" DIAGONAL	9 12" DIAGONAL
4 4" DOUBLE (NARROW)	10 6" SOLID
5 4" DOUBLE (WIDE)	11 24" STOP BAR
6 RESERVED	12 8" SOLID
	13 4" LANE LINE EXTENSIONS
	14 RESERVED



MODEL: \\MODELNAME  
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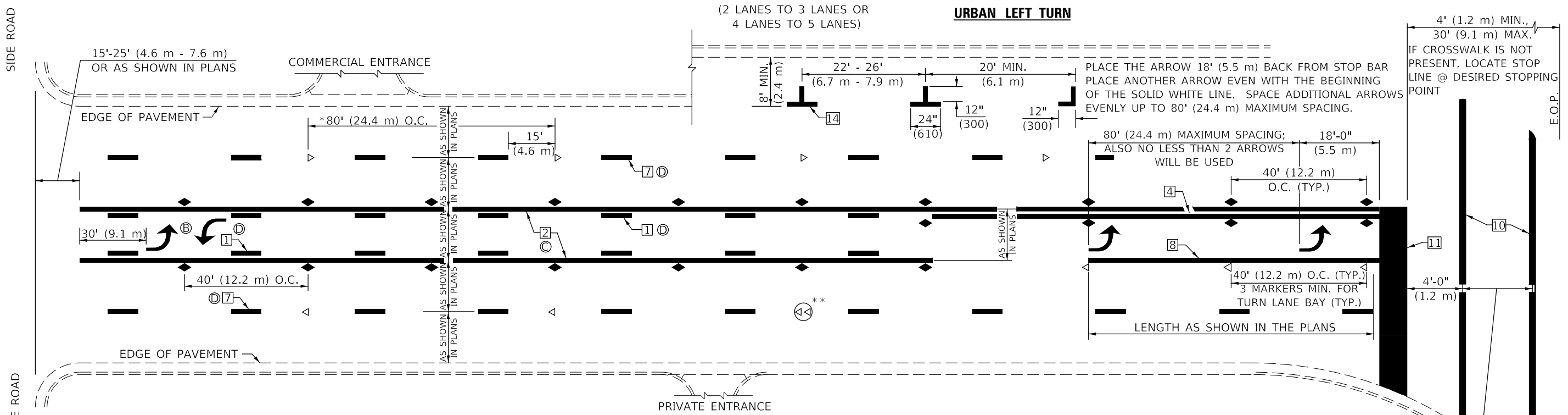
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	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

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

<b>PAVEMENT MARKINGS</b> <b>S.N. 010-0186</b>		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		74	(14-HB)BDR	CHAMPAIGN	66	59
SCALE:		SHEET 1 OF 5 SHEETS		STA. TO STA.		CONTRACT NO. 70D15

ILLINOIS FED. AID PROJECT	
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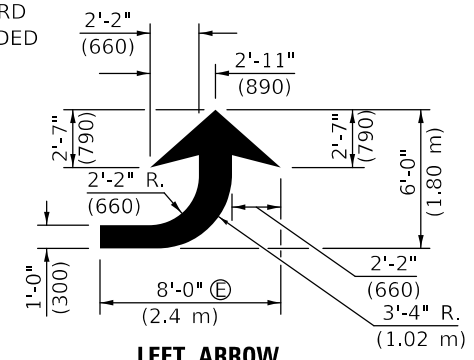


\* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

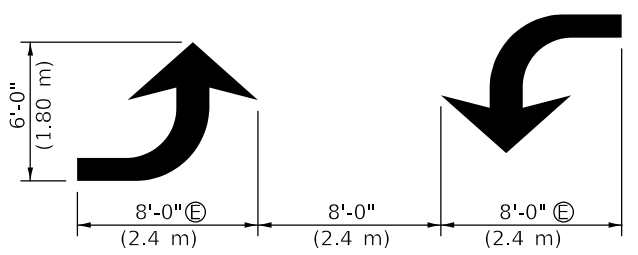
**GENERAL NOTES:**

- ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
- ⓒ THE SOLID YELLOW PAVEMENT MARKINGS ② SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- ⓓ THE SKIP-DASH PAVEMENT MARKINGS ① OR ⑦ SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
- ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



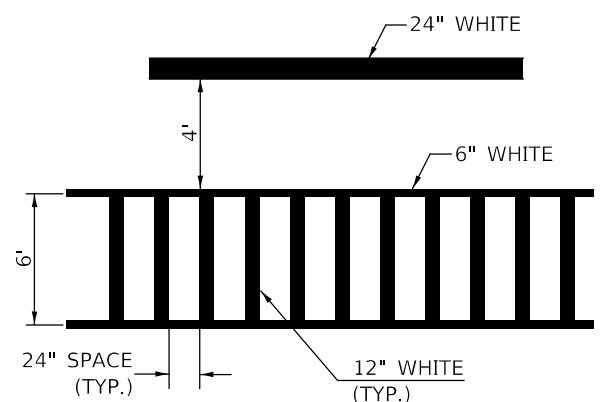
**LEFT ARROW**

REVERSE FOR RIGHT ARROW  
AREA = 15.6 SQ. FT. (1.47 m<sup>2</sup>)  
(WHITE)

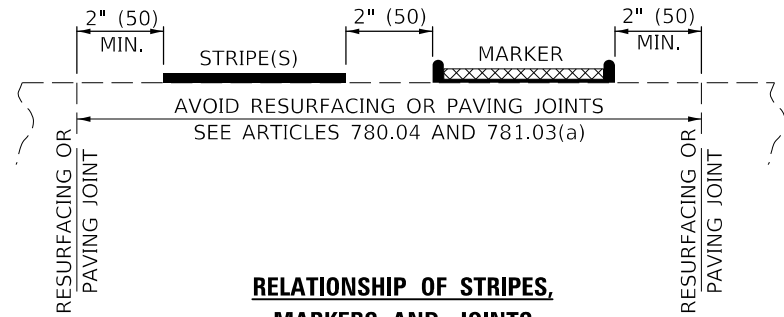


**TYPICAL DOUBLE TURN ARROWS (WHITE)**

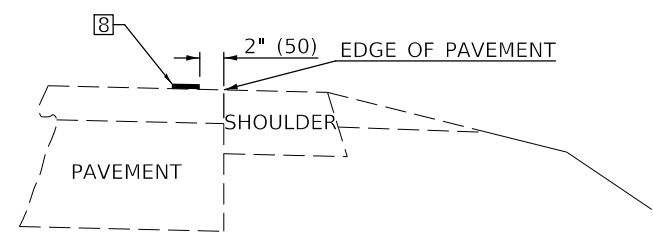
**BLOOMINGTON-NORMAL CITY LIMITS ONLY**



**TYPICAL SPACING FOR CROSSWALKS & STOP BARS**



**RELATIONSHIP OF STRIPES, MARKERS AND JOINTS**



**RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT**  
(SAFETY SHOULDER OR PAVED SURFACE)  
SEE ARTICLE 780.04

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 7800AAAA**

USER NAME = shawleres	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 9/2009 KJT
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED - 04/14 JLA
PLOT DATE = 12/6/2018	DATE -	REVISED -

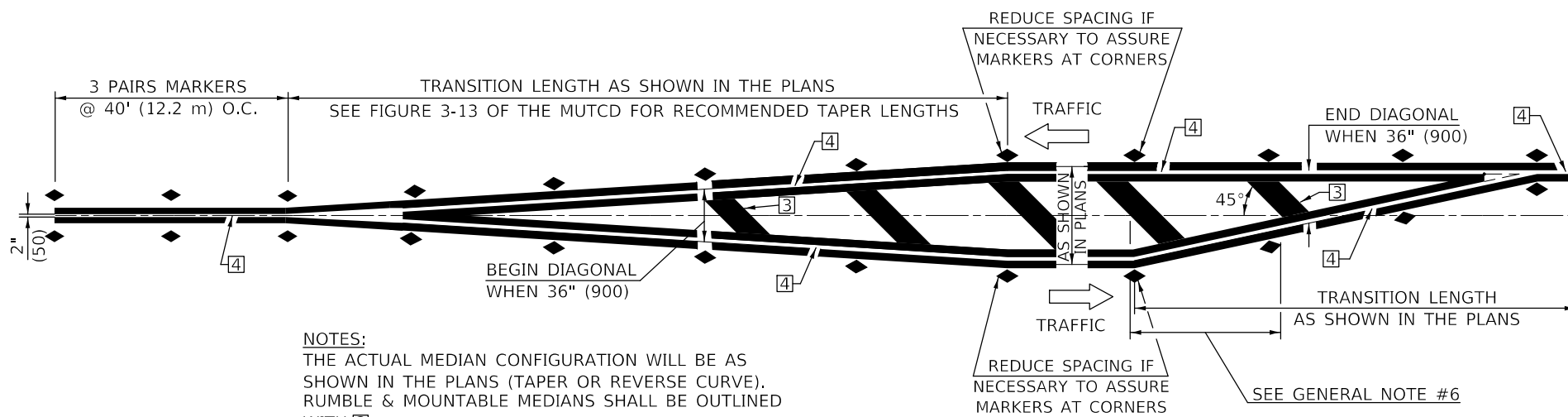
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	61
			CONTRACT NO. 70D15	
			ILLINOIS FED. AID PROJECT	

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

MODEL: \\MODELNAME; FILE NAME: \\FILENAME; PROJECT: \\PROJECT; OFFICE: \\OFFICE; DRAWN: \\DRAWN; CHECKED: \\CHECKED; DATE: \\DATE; SCALE: \\SCALE; SHEET: \\SHEET OF \\SHEETS

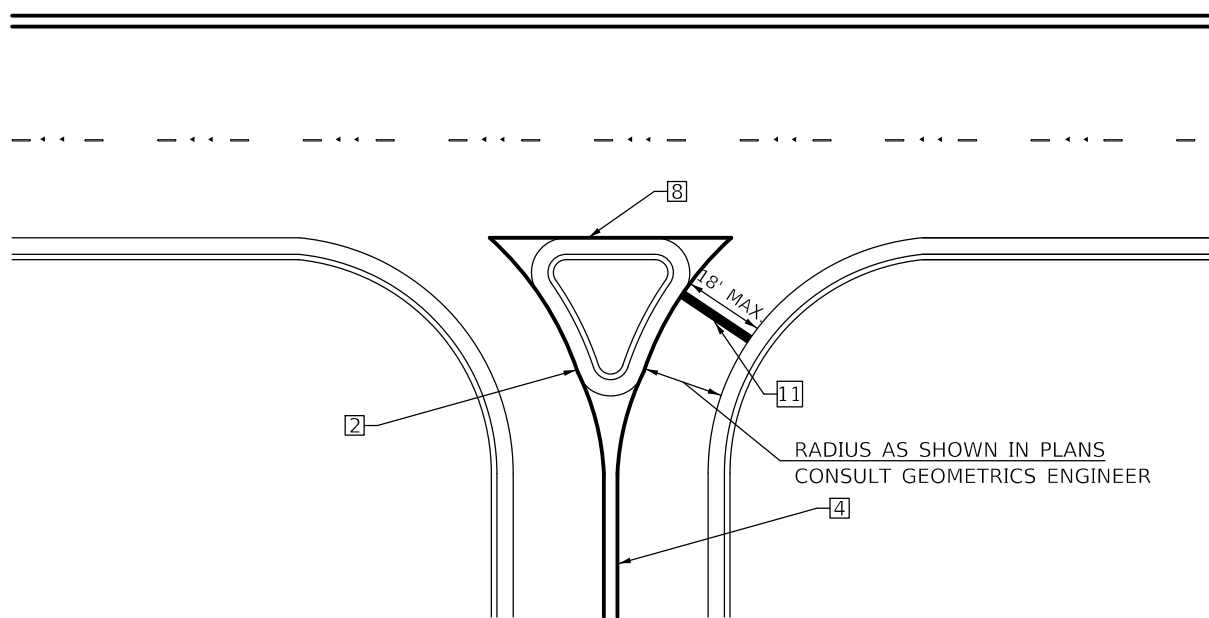


NOTES:  
 THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).  
 RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

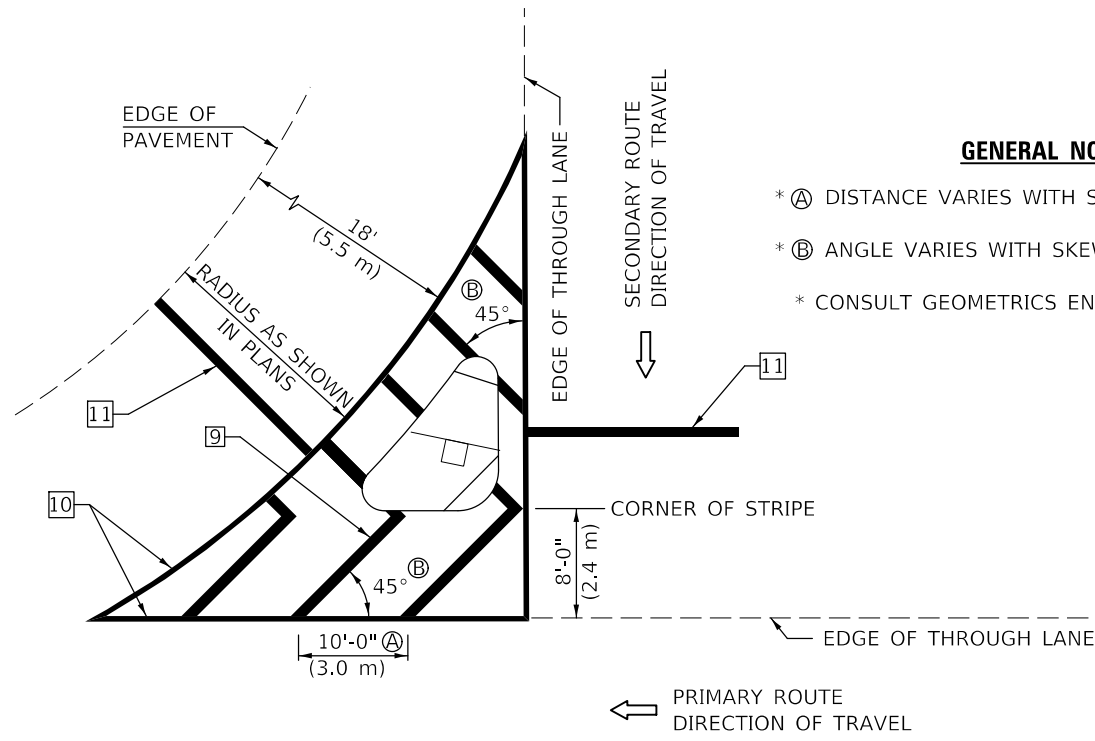
**TYPICAL MEDIAN TRANSITIONS**

**GENERAL NOTES**

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,  
 <30 MPH USE 15' (<50 km/h USE 4.5 m)  
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)  
 >45 MPH USE 30' (>75 km/h USE 9.0 m)



**RIGHT IN - RIGHT OUT ACCESS**



**ISLAND**

**GENERAL NOTES**

- \* A DISTANCE VARIES WITH SKEW OF INTERSECTION.
- \* B ANGLE VARIES WITH SKEW OF INTERSECTION.
- \* CONSULT GEOMETRICS ENGINEER

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 7800AAAA**

MODEL: \\MODELNAME  
 FILE NAME: \\FILENAME  
 PROJECT: \\PROJECT  
 OFFICE: \\OFFICE  
 DATE: \\DATE

USER NAME = shawleres	DESIGNED -	REVISD - 11/06
	DRAWN -	REVISD - 9/2009 KJT
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISD - 04/14 JLA
PLOT DATE = 12/6/2018	DATE -	REVISD -

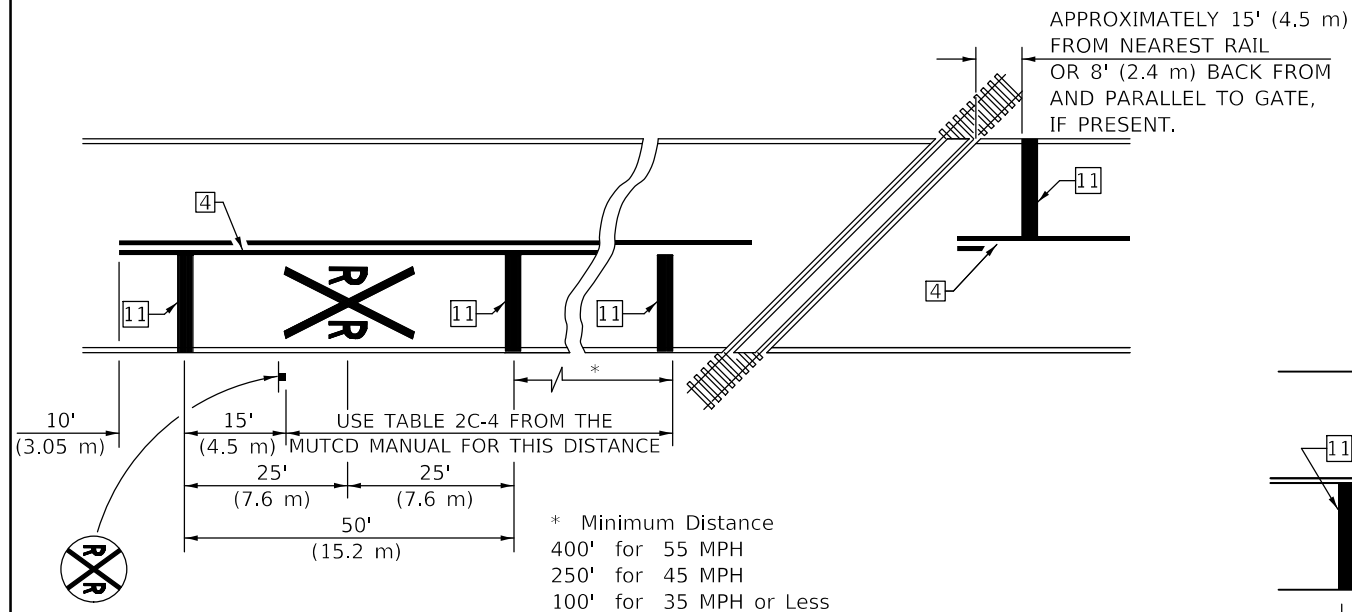
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
 (RURAL & URBAN APPLICATIONS)**

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

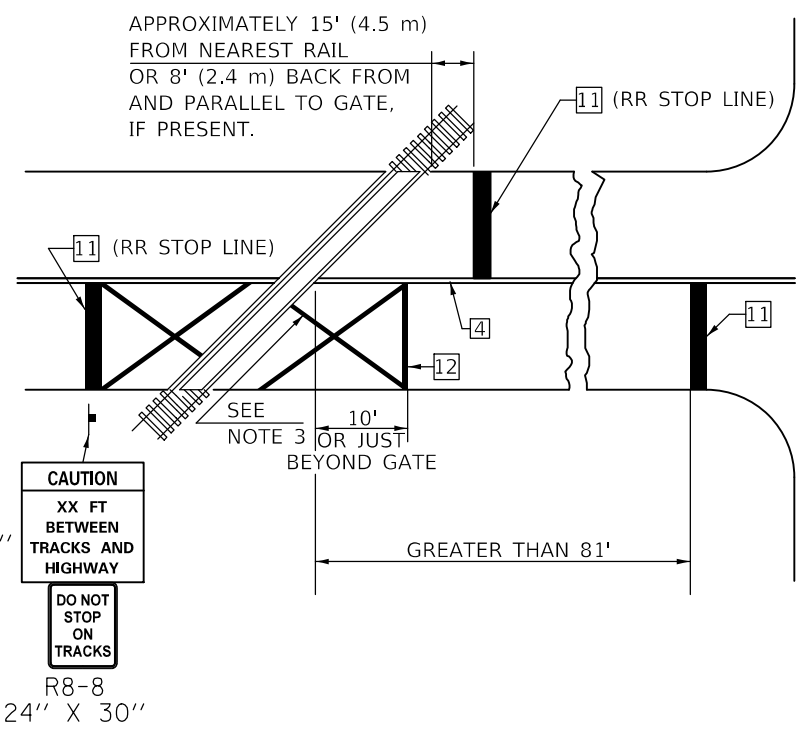
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	62
			CONTRACT NO. 70D15	
			ILLINOIS FED. AID PROJECT	

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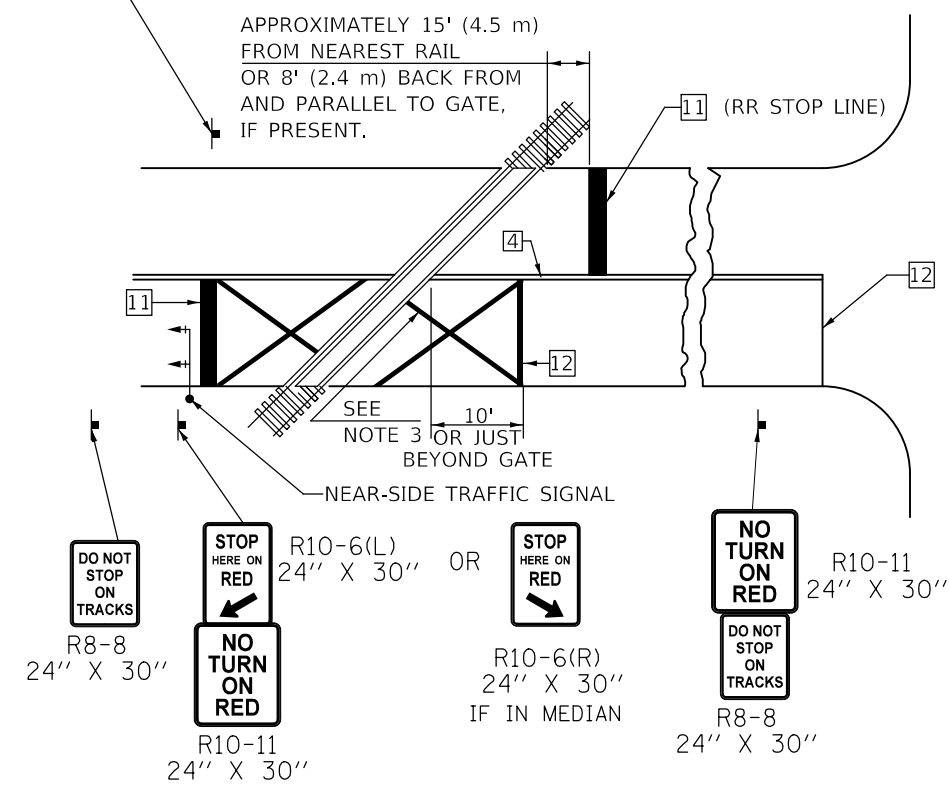
**PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING**

**RAILROAD CROSSING WITH INTERCONNECT ONLY**



DO NOT STOP ON TRACKS  
(R8-8)  
24" x 30"

**RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS**



DO NOT STOP ON TRACKS  
R8-8  
24" x 30"

STOP HERE ON RED  
R10-6(L)  
24" x 30" OR  
R10-6(R)  
24" x 30" IF IN MEDIAN

NO TURN ON RED  
R10-11  
24" x 30"

DO NOT STOP ON TRACKS  
R8-8  
24" x 30"

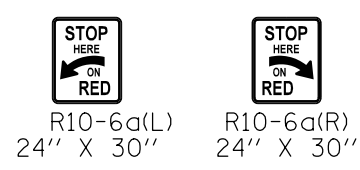
NO TURN ON RED  
R10-11  
24" x 30"

**GENERAL NOTES**

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
3. 6" WHITE PAVEMENT MARKINGS AT 45° TO PAVEMENT, 8' CENTER TO CENTER.
4. XX DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICH EVER IS CLOSEST, ROUNDED DOWN TO NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
5. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTENDED TO THE INTERSECTION.

**SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING**

**ALTERNATE SIGNS**



**NOTES**

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 7800AAAA**

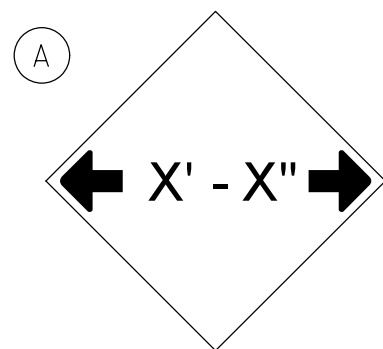
USER NAME = shawleres	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 9/2009 KJT
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED - 04/14 JLA
PLOT DATE = 12/6/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS  
(RURAL & URBAN APPLICATIONS)**

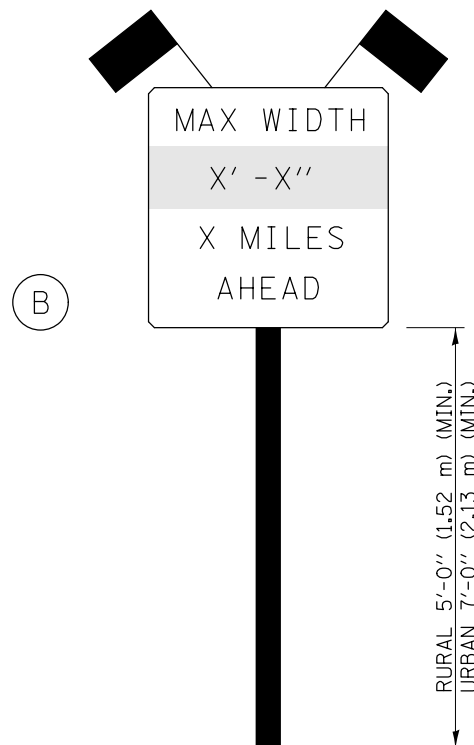
SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	63
CONTRACT NO. 70D15				
ILLINOIS FED. AID PROJECT				

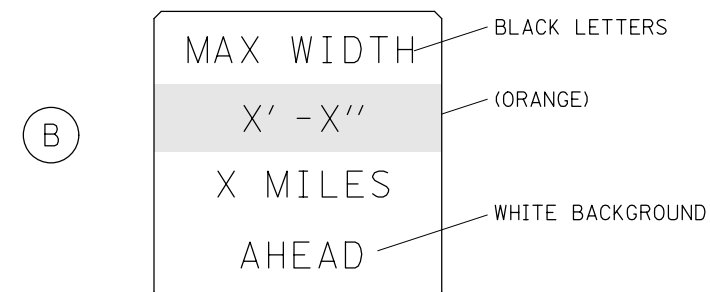


W12-2(0)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(0)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



W12-I103(0)-48"x48"(1200x1200)  
"D" LETTERS/NUMBERS

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

STAGE WIDTHS:

STAGE 1 WIDTH = 11'-0" ACTUAL; 11'-0" POSTED; REQUIRED

STAGE 2 WIDTH = 11'-0" ACTUAL; 11'-0" POSTED; REQUIRED

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = shawleres	DESIGNED -	REVISED - 05/08
p:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 5\Projects\0579\Drawings\Structures\0570D15.sht.width		DRAWN -	REVISED - 10/08 KJT
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED - 07/09 KJT
*MODELNAME*	PLOT DATE = 12/6/2018	DATE -	REVISED - 03/11 KJT

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING  
S.N. 010-0186

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

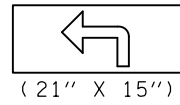
DISTRICT 5 DETAIL NO. X7200201				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	64
			CONTRACT NO.	70D15
ILLINOIS FED. AID PROJECT				



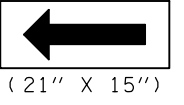
# S.N. 010-0186

## WIDTH RESTRICTION SIGNINGS FOR PROSPECT AVE. TRAFFIC

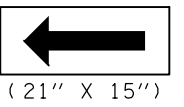
- A1** BLOOMINGTON RD. WESTBOUND  
ERECT 50 FEET +/- EAST OF HIGHLAND AVE.  
INCLUDE LEFT TURN ARROW SIGN
- A2** PROSPECT AVE. NORTHBOUND  
BAND TO MONOTUBE SIGNAL STRUCTURE  
JUST NORTH OF BLOOMINGTON RD.
- A3** PROSPECT AVE. SOUTHBOUND  
ERECT 100 FEET +/- SOUTH  
OF MARKETVIEW DRIVE



- A4** I-74 EASTBOUND EXIT RAMP  
ERECT BEHIND LEFT SIDE "DO NOT ENTER SIGN  
INCLUDE DIRECTION ARROW SIGN (LEFT)



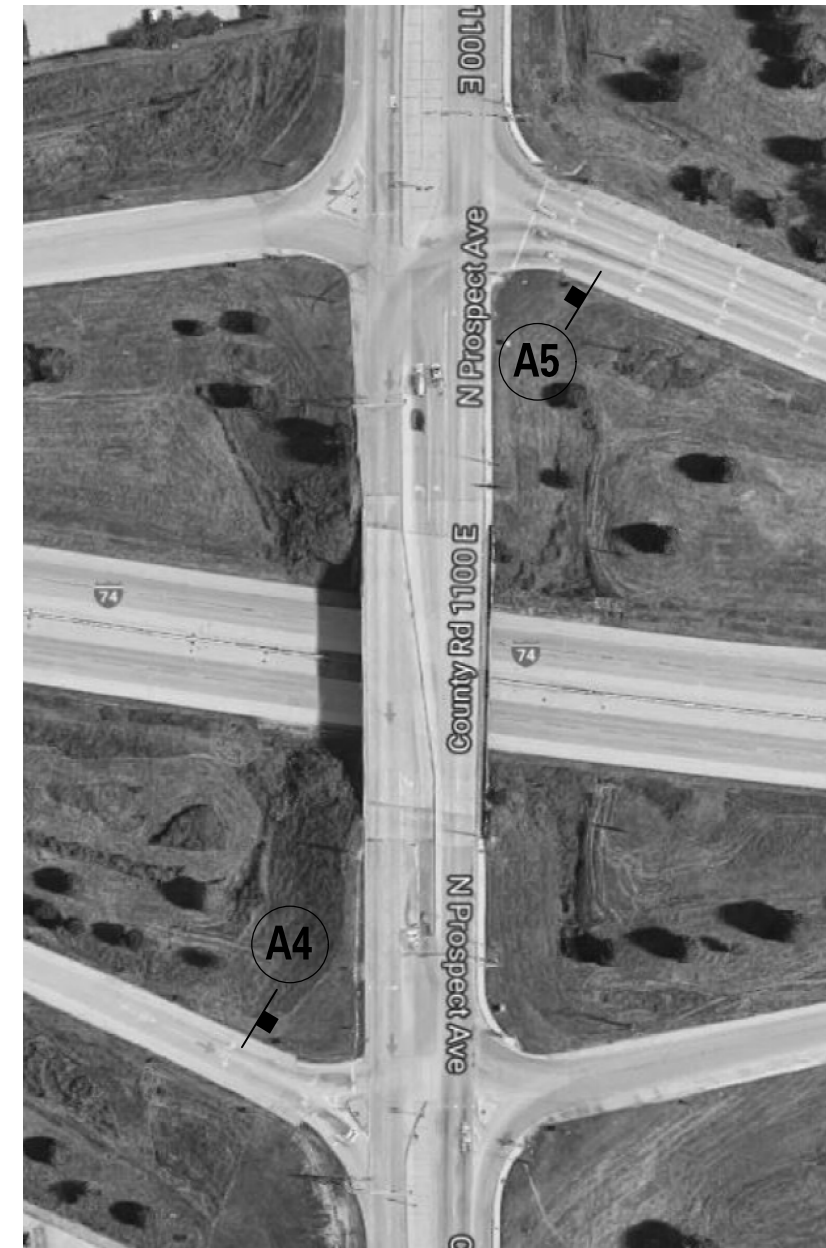
- A5** I-74 WESTBOUND EXIT RAMP  
ERECT BEHIND LEFT SIDE "DO NOT ENTER SIGN  
INCLUDE DIRECTION ARROW SIGN (LEFT)



### INTERCHANGE OF PROSPECT AVE. & I-74



### INTERCHANGE OF PROSPECT AVE. & I-74



MODEL: \\MODELNAME  
 FILE NAME: \\FILENAME  
 PROJECT: \\PROJECTNAME  
 DATE: 12/6/2018

USER NAME = shawleres	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

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

**WIDTH RESTRICTION SIGNING**  
**S.N. 010-0186**

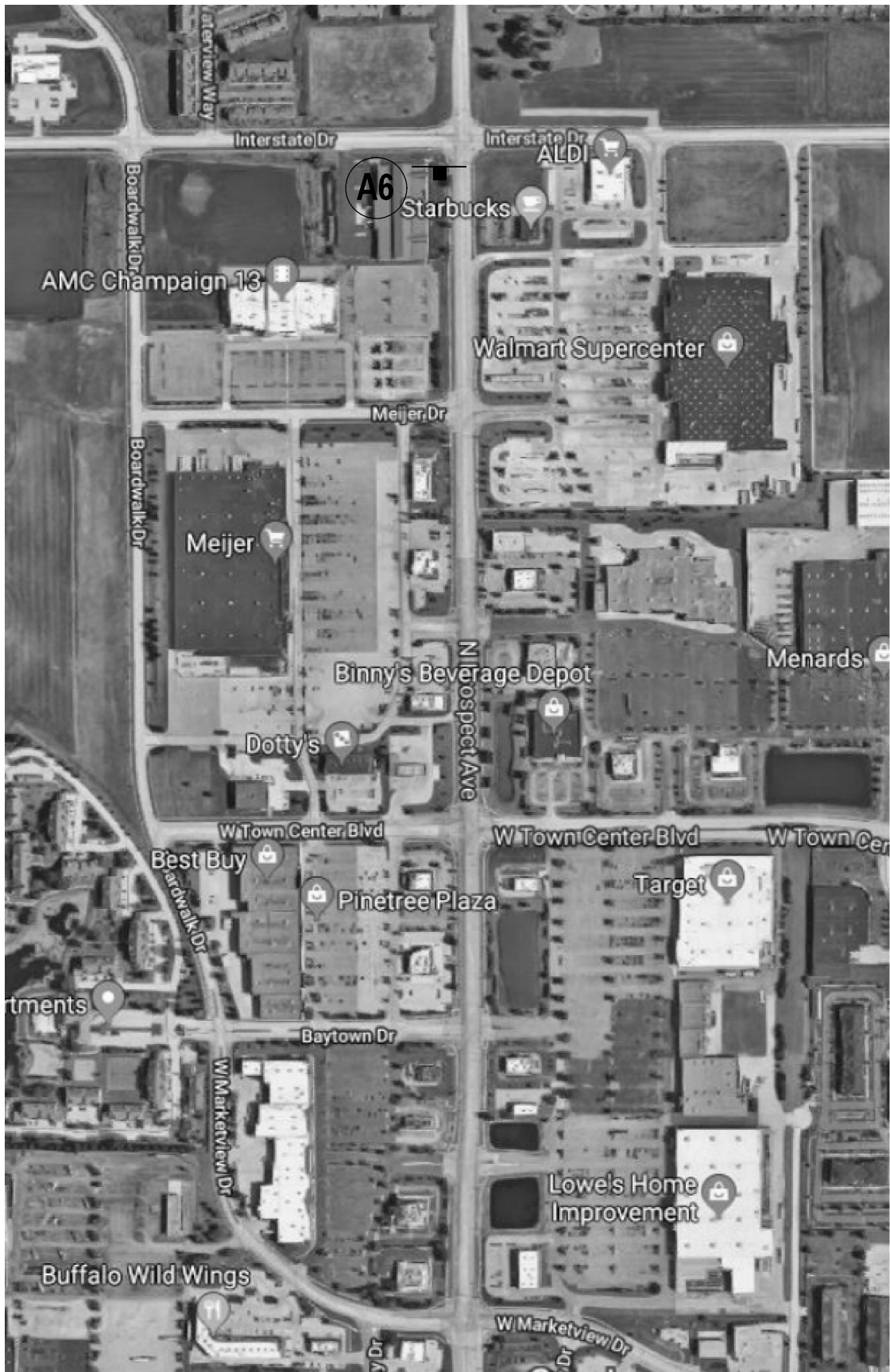
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	65
CONTRACT NO. 70D15				
ILLINOIS FED. AID PROJECT				

**S.N. 010-0186**

WIDTH RESTRICTION SIGNINGS  
FOR PROSPECT AVE. TRAFFIC

NORTH PROSPECT AVE. INTERSTATE DR. TO MARKETVIEW DR.



**A6**

NORTH PROSPECT SOUTHBOUND  
ERECT 50 FEET +/- SOUTH OF INTERSTATE DR.  
INCLUDE 1 MILE AHEAD SIGN

1.0 MILE  
(21" X 15")



MODEL: \\MODELS\NAME  
FILE: \\NAME: \\PROJECTS\0570015\CADD\DATA\Structures\0570015\_01\_width\_restriction.dgn

USER NAME = shawleres	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/6/2018	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING  
S.N. 010-0186**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	(14-HB)BDR	CHAMPAIGN	66	66
			CONTRACT NO. 70D15	
			ILLINOIS FED. AID PROJECT	