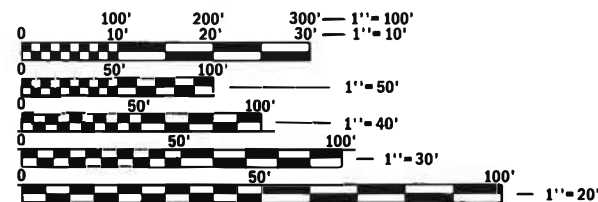


01	COVER SHEET
02	HIGHWAY STANDARDS & GENERAL NOTES
03-04	SUMMARY OF QUANTITIES
05-06	SCHEDULE OF QUANTITIES
07	STAGE I & II CONSTRUCTION TYPICAL SECTIONS
08-09	TRAFFIC CONTROL PLAN - STAGE I
10-11	TRAFFIC CONTROL PLAN - STAGE II
12	RESTORATION & PAVEMENT MARKING PLAN
13	GENERAL PLAN AND ELEVATION SB
14	GENERAL PLAN AND ELEVATION NB
15-16	STAGING DETAILS
17	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
18	DECK REPAIR - FULL DEPTH
19	ABUTMENT JOINT DETAILS SB
20	JOINT REPLACEMENT DETAIL - PIER 3 SB
21	ABUTMENT JOINT DETAILS NB
22	JOINT REPLACEMENT DETAIL - PIER 3 NB
23	JOINT REPLACEMENT AND REPAIR DETAIL
24	MODIFIED PREFORMED JOINT STRIP SEAL
25	BAR SPICER ASSEMBLY AND MECHANICAL SPICER DETAILS
26-27	BEAM REPAIR DETAILS SB
28-29	BEAM REPAIR DETAILS NB
30-31	WEST PARAPET REPAIR DETAILS SB
32-33	EAST PARAPET REPAIR DETAILS SB
34-35	WEST PARAPET REPAIR DETAILS NB
36-37	EAST PARAPET REPAIR DETAILS NB
38	ABUTMENT REPAIR DETAILS
39-47	PIERS 1 - 6 STRUCTURAL REPAIR DETAILS SB
48-56	PIERS 1 - 6 STRUCTURAL REPAIR DETAILS NB
57	SLOPE WALL REPAIR DETAILS
58-64	REGION 2 /DISTRICT 2 STANDARD DETAILS

DESIGN DESIGNATIONS

INTERSTATE
 CURRENT ADT: 34,856 (2020)
 DESIGN SPEED: 70 MPH
 POSTED SPEED: 70 MPH
 MU = 35%, SU = 4%



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

PROJECT ENGINEER GEOFF SMITH, P.E.
 PROJECT MANAGER MAHMOUD ETEMADI, P.E.

CONTRACT NO. 64P04

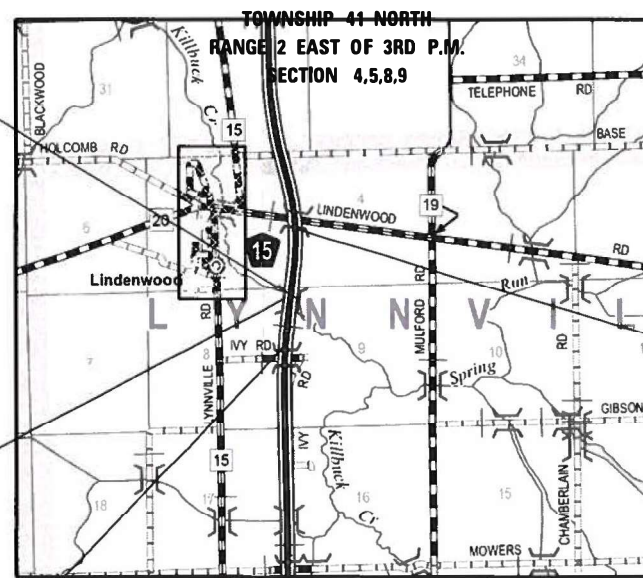
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**PROPOSED
 HIGHWAY PLANS**

F.A.I. ROUTE 39 (I - 39) OVER KILBUCK CREEK
 SECTION (141-2B-VB)BDR
 PROJECT NHPP-P7ER(929)
 BRIDGE REPAIR
 OGLE COUNTY

C-92-006-20

EXISTING STRUCTURE
 S.N. 071-0053 (NB) A SEVEN SPAN PPC I-BEAM SUPERSTRUCTURE WITH OPEN ABUTMENTS AND SOLID WALL PIERS.
 BACK TO BACK LENGTH = 432'-8"
 OUT TO OUT WIDTH = 42'-0"

EXISTING STRUCTURE
 S.N. 071-0052 (SB) A SEVEN SPAN PPC I-BEAM SUPERSTRUCTURE WITH OPEN ABUTMENTS AND SOLID WALL PIERS.
 BACK TO BACK LENGTH = 432'-8"
 OUT TO OUT WIDTH = 42'-0"



MAP NOT TO SCALE

LOCATION MAP

GROSS LENGTH = 4,256 FT. = 0.806 MILE
 NET LENGTH = 4,256 FT. = 0.806 MILE

PROJECT BEGINS
 STA. 1916 + 88

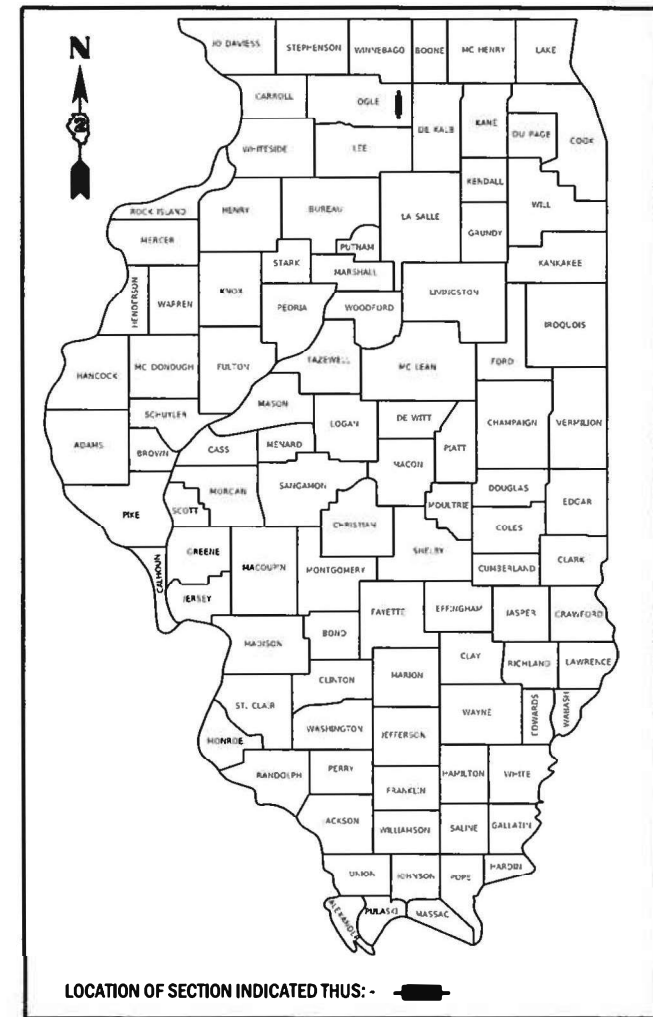
PROJECT ENDS
 STA. 1959 + 44



DATE: 7-28-2020
 EXPIRES 11/30/21

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	01
WHA# 1427018		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

D-92-007-20



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED August 5, 2020
 [Signature] REGIONAL ENGINEER
 October 2, 2020
 [Signature] ENGINEER OF DESIGN AND ENVIRONMENT
 October 2, 2020
 [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS

HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24' FROM PAVEMENT EDGE
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS \geq 45 MPH
701428-01	TRAFFIC CONTROL SET UP AND REMOVAL FREEWAY / EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTH MOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

THE STRUCTURES WILL RETAIN THE SAME NUMBERS: 071-0052 (SB) & 071-0053 (NB).

PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001-05, EXCEPT AS FOLLOWS:

1. ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
2. ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
3. THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OR TYPICAL LANDS AND EDGE LINES
4. CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT 41.1.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCED NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBER OF JULIE.

IDOT IS NOT A MEMBER OF JULIE, IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AND 815-284-5469 AT LEAST 48 HOURS PRIOR TO WORK.

RELOCATE TEMPORARY IMPACT ATTENUATORS SHALL INCLUDE STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE DEVICE IS NOT NEEDED FOR A TIME, AS SHOWN ON THE STAGING PLANS. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.

WHEN RELOCATE TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS, RELOCATED AND REINSTATED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.

HMA MIX DESIGN

LOCATION(S):	MAINLINE
MIXTURE USE(S):	SURFACE
PG:	SBS PG 76-22
DESIGN AIR VOIDS:	4.0 @ N80
MIXTURE COMPOSITION:	SMA IL 12.5
FRICTION AGGREGATE:	SMA N80
MIXTURE WEIGHT:	119 LBS/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC / QA
SUBLOT SIZE:	N/A
NUMBER OF ROLLER PASSES:	N/A
MIXTURE TYPE:	"E"

FILE = S:\PROJECTS\2018\1427D18.IDOT\DESIGN\CAD_SHEETS\WO 7\1427D18-WO-7_General-Notes&Standards.dgn



USER NAME = greg	DESIGNED - GFS	REVISED -
	DRAWN - GBG	REVISED -
PLOT SCALE = 128.0000' / FL	CHECKED - GFS	REVISED -
PLOT DATE = 7/27/2020	DATE - 07/01/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGHWAY STANDARDS & GENERAL NOTES

SCALE N / A SHEET 1 OF 1 SHEETS STA. N / A TO STA. N / A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	02
WHA# 1427D18			CONTRACT NO. 64P04	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CONSTRUCTION CODE: 0013

90% FED
10% STATE

90% FED
10% STATE

PAY CODE	PAY ITEM NAME	UNIT	QUANTITY
28000510	INLET FILTERS	EACH	8
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	248
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	552
40605034	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5, MIX "E", N80	TON	80
50102400	CONCRETE REMOVAL	CU YD	22.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	23.8
50300300	PROTECTIVE COAT	SQ YD	4,216
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	6,840
50800515	BAR SPLICERS	EACH	76
52000110	PREFORMED JOINT STRIP SEAL	FOOT	246
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	72.1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
67100100	MOBILIZATION	L SUM	1
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2

* SPECIALITY ITEM

PAY CODE	PAY ITEM NAME	UNIT	QUANTITY
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2
70107004	PAVEMENT MARKING BLACKOUT TAPE, 4"	FOOT	4,117
70107006	PAVEMENT MARKING BLACKOUT TAPE, 6"	FOOT	385
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	148
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	13,458
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,425.0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,375.0
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	4,114
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	704
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	14
Z0012140	BRIDGE DECK SCARIFICATION 2"	SQ YD	344
Z0012152	BRIDGE DECK SCARIFICATION 3 1/2"	SQ YD	3,809

* SPECIALITY ITEM

FILE = S:\PROJECTS\2018\1427D18.IDOT\DESIGN\CAD_SHEETS\WD 7\1427D18-WD7-Summary_of_Quantities.dgn



USER NAME : greg	DESIGNED - GFS	REVISED -
	DRAWN - GBG	REVISED -
PLOT SCALE : 248.0000 ' / FL	CHECKED - GFS	REVISED -
PLOT DATE : 7/27/2020	DATE - 07/01/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE N / A SHEET 1 OF 2 SHEETS STA. N / A TO STA. N / A

F.A.I. RTE. 39	SECTION (141-2B-VB)BDR WHA* 1427D18	COUNTY OGLE	TOTAL SHEETS 64	SHEET NO. 03	CONTRACT NO. 64P04
ILLINOIS FED. AID PROJECT					

REV. 9/22/20 REV. 8/25/20 REV. 8/19/20

SUMMARY OF QUANTITIES

CONSTRUCTION CODE: 0013

90% FED
10% STATE

90% FED
10% STATE

PAY CODE	PAY ITEM NAME	UNIT	QUANTITY
Z0012164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	SQ YD	344
Z0012176	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 4"	SQ YD	3,809
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	2,823.2
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	282.3
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	2
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	5
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	3,763
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	116.6
X0322276	CLEANING AND PAINTING EXPOSED REBAR	L SUM	1
X0325748	ACRYLIC COATING	SQ YD	922.4
X0325749	FIBER WRAP	SQ FT	1,478.6
X0327640	REAL-TIME TRAFFIC CONTROL CENTRAL BASE UNIT	CAL MO	3
X0327641	REAL-TIME TRAFFIC CONTROL SENSOR UNIT	CAL MO	6

* SPECIALITY ITEM

PAY CODE	PAY ITEM NAME	UNIT	QUANTITY
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	2,629.0
X6026200	INLETS TO BE ADJUSTED (SPECIAL)	EACH	8
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	6,051

* SPECIALITY ITEM

FILE = S:\PROJECTS\2018\1427D18.DOT\DESIGN\CAD_SHEETS\W07_1427D18-W07_Summary_of_Quantities.dgn



USER NAME - greg	DESIGNED - GFS	REVISED -
	DRAWN - GBG	REVISED -
PLOT SCALE - 248.0000' / FL	CHECKED - GFS	REVISED -
PLOT DATE - 7/27/2020	DATE - 07/01/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE N / A SHEET 2 OF 2 SHEETS STA. N / A TO STA. N / A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	04
WHA* 1427D18			CONTRACT NO. 64P04	
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

28000510 INLET FILTERS

STATION	EACH	REMARKS
I - 39		
1935+71.3 - RT 74.5'	1	NORTH BOUND STRUCTURE
1935+71.2 - RT 40.6'	1	NORTH BOUND STRUCTURE
1935+95.1 - LT 40.3'	1	SOUTH BOUND STRUCTURE
1935+95.2 - LT 74.5'	1	SOUTH BOUND STRUCTURE
1940+59.5 - RT 74.3'	1	NORTH BOUND STRUCTURE
1940+58.9 - RT 40.5'	1	NORTH BOUND STRUCTURE
1940+59.2 - LT 40.4'	1	SOUTH BOUND STRUCTURE
1940+59.3 - LT 74.7'	1	SOUTH BOUND STRUCTURE
PROJECT TOTAL	8	

40600295 POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)

STATION	POUND	REMARKS
I - 39		
STAGE I - NORTH BOUND		
RT 1935+39.0 TO 1935+69.0	31	BUTT JOINT
RT 1940+62.0 TO 1940+92.0	31	BUTT JOINT
STAGE I - SOUTH BOUND		
LT 1935+62.0 TO 1935+92.0	31	BUTT JOINT
LT 1940+62.0 TO 1940+92.0	31	BUTT JOINT
STAGE II - NORTH BOUND		
RT 1935+39.0 TO 1935+69.0	31	BUTT JOINT
RT 1940+62.0 TO 1940+92.0	31	BUTT JOINT
STAGE II - SOUTH BOUND		
LT 1935+62.0 TO 1935+92.0	31	BUTT JOINT
LT 1940+62.0 TO 1940+92.0	31	BUTT JOINT
PROJECT TOTAL	248	

40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

STATION	SQ YD	REMARKS
I - 39		
STAGE I - NORTH BOUND		
RT 1935+39.0 TO 1935+69.0	69	2 1/4" DEPTH
RT 1940+62.0 TO 1940+92.0	69	2 1/4" DEPTH
STAGE I - SOUTH BOUND		
LT 1935+62.0 TO 1935+92.0	69	2 1/4" DEPTH
LT 1940+62.0 TO 1940+92.0	69	2 1/4" DEPTH
STAGE II - NORTH BOUND		
RT 1935+39.0 TO 1935+69.0	69	2 1/4" DEPTH
RT 1940+62.0 TO 1940+92.0	69	2 1/4" DEPTH
STAGE II - SOUTH BOUND		
LT 1935+62.0 TO 1935+92.0	69	2 1/4" DEPTH
LT 1940+62.0 TO 1940+92.0	69	2 1/4" DEPTH
PROJECT TOTAL	552	

40605034 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5, MIX "E", N80

STATION	TON	REMARKS
I - 39		
STAGE I - NORTH BOUND		
RT 1935+39.0 TO 1935+69.0	10	2 1/4" DEPTH
RT 1940+62.0 TO 1940+92.0	10	2 1/4" DEPTH
STAGE I - SOUTH BOUND		
LT 1935+62.0 TO 1935+92.0	10	2 1/4" DEPTH
LT 1940+62.0 TO 1940+92.0	10	2 1/4" DEPTH
STAGE II - NORTH BOUND		
RT 1935+39.0 TO 1935+69.0	10	2 1/4" DEPTH
RT 1940+62.0 TO 1940+92.0	10	2 1/4" DEPTH
STAGE II - SOUTH BOUND		
LT 1935+62.0 TO 1935+92.0	10	2 1/4" DEPTH
LT 1940+62.0 TO 1940+92.0	10	2 1/4" DEPTH
PROJECT TOTAL	80	

70107004 PAVEMENT MARKING BLACKOUT TAPE, 4"

STATION	FOOT	REMARKS
I - 39		
STAGE I - NORTH BOUND		
1931+88.3 - 1943+68.2	1,180	E. EDGE LINE, 4" SOLID
STAGE I - SOUTH BOUND		
1932+87.4 - 1944+46.7	1,160	W. EDGE LINE, 4" SOLID
STAGE II - NORTH BOUND		
1933+28.3 - 1942+28.2	900	W. EDGE LINE, 4" SOLID
STAGE II - SOUTH BOUND		
1934+27.4 - 1943+03.7	877	E. EDGE LINE, 4" SOLID
PROJECT TOTAL	4,117	

70107006 PAVEMENT MARKING BLACKOUT TAPE, 6"

STATION	FOOT	REMARKS
I - 39		
STAGE I - NORTH BOUND LANES		
1926+88.3 - 1935+25.8	210	CENTERLINE, 6" SKIP DASH
STAGE I - SOUTH BOUND LANES		
1941+06.2 - 1948+03.7	175	CENTERLINE, 6" SKIP DASH
PROJECT TOTAL	385	

70107025 CHANGEABLE MESSAGE SIGN

STATION	CAL DA	REMARKS
I - 39		
STAGE I & STAGE II		
NORTH BOUND LANES	14	BEFORE CONSTRUCTION STARTS
NORTH BOUND LANES	60	RTTC SENSOR
STAGE I & STAGE II		
SOUTH BOUND LANES	14	BEFORE CONSTRUCTION STARTS
SOUTH BOUND LANES	60	RTTC SENSOR
PROJECT TOTAL	148	

70300904 PAVEMENT MARKING TAPE, TYPE IV - 4"

STATION	FOOT	REMARKS
I - 39		
STAGE I - NORTH BOUND LANES		
1916+88.3 - 1941+05.7	2,418	SOLID - YELLOW
1931+88.3 - 1943+68.2	1,180	SOLID - WHITE
STAGE I - SOUTH BOUND LANES		
1932+87.4 - 1944+43.7	1,157	SOLID - WHITE
1935+49.9 - 1959+43.7	2,394	SOLID - YELLOW
STAGE II - NORTH BOUND LANES		
1918+28.3 - 1941+05.7	2,278	SOLID - WHITE
1933+28.3 - 1942+28.2	900	SOLID - YELLOW
STAGE II - SOUTH BOUND LANES		
1934+27.4 - 1943+03.7	877	SOLID - YELLOW
1935+49.9 - 1958+03.7	2,254	SOLID - WHITE
PROJECT TOTAL	13,458	

70400100 TEMPORARY CONCRETE BARRIER

STATION	FOOT	REMARKS
I - 39		
STAGE I - NORTH BOUND LANES		
1933+88.7 - 1935+00.8	112.5	(1:12 TAPER)
1935+00.8 - 1941+13.3	612.5	PARALLEL WITH LANE
STAGE I - SOUTH BOUND LANES		
1935+43.7 - 1941+31.2	587.5	PARALLEL WITH LANE
1941+31.2 - 1942+43.3	112.5	(1:12 TAPER)
PROJECT TOTAL	1,425.0	

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

STATION	FOOT	REMARKS
I - 39		
STAGE II - NORTH BOUND LANES		
1934+13.6 - 1935+00.8	87.5	(1:12 TAPER)
1935+00.8 - 1941+13.3	612.5	PARALLEL WITH LANE
STAGE II - SOUTH BOUND LANES		
1935+43.7 - 1941+31.2	587.5	PARALLEL WITH LANE
1941+31.2 - 1942+18.4	87.5	(1:12 TAPER)
PROJECT TOTAL	1,375.0	

70600250 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

STATION	EACH	REMARKS
I - 39		
1933+87.5	1	STAGE 1 - NORTH BOUND
19+42.44.4	1	STAGE 1 - SOUTH BOUND
PROJECT TOTAL	2	

70600350 IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3

STATION	EACH	REMARKS
I - 39		
1934+11.5	1	STAGE 1 - NORTH BOUND
1942+20.4	1	STAGE 1 - SOUTH BOUND
PROJECT TOTAL	2	

78009004 MODIFIED URETHANE PAVEMENT MARKING - LINE 4"

STATION	FOOT	REMARKS
I - 39		
NORTH BOUND LANES		
1933+28.3 - 1942+28.2	900	W. EDGE LINE - YELLOW
1931+88.3 - 1943+68.2	1,180	E. EDGE LINE - WHITE
SOUTH BOUND LANES		
1932+87.4 - 1944+43.7	1,157	W. EDGE LINE - WHITE
1934+27.4 - 1943+03.7	877	E. EDGE LINE - YELLOW
PROJECT TOTAL	4,114	

78009006 MODIFIED URETHANE PAVEMENT MARKING - LINE 6"

STATION	FOOT	REMARKS
I - 39		
NORTH BOUND LANES		
1926+88.3 - 1941+05.7	355	SKIP DASH - WHITE
SOUTH BOUND LANES		
1935+49.9 - 1949+43.7	349	SKIP DASH - WHITE
PROJECT TOTAL	704	

78100100 RAISED REFLECTIVE PAVEMENT MARKER

STATION	EACH	REMARKS
I - 39		
1935+39.0 - 1940+92.0	7	CENTER LINE - NORTH BOUND
1935+62.0 - 1940+92.0	7	CENTER LINE - SOUTH BOUND
PROJECT TOTAL	14	

FILE = S:\PROJECTS\2018\1427018.IDOT\DESIGN\CAD_SHEETS\W07_1427018-W07_Schedule_of_Quantities.dgn



USER NAME = greg	DESIGNED - GFS	REVISED -
PLOT SCALE = 248.0000 / FL	DRAWN - GBS	REVISED -
PLOT DATE = 7/27/2020	CHECKED - GFS	REVISED -
	DATE - 07/01/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE N / A SHEET 1 OF 2 SHEETS STA. N / A TO STA. N / A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-V)BDR	OGLE	64	05
WHA# 1427018		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

X0327640 REAL-TIME TRAFFIC CONTROL CENTRAL BASE UNIT

STATION	CAL MO	REMARKS
I - 39		
ENTIRE PROJECT	3	
PROJECT TOTAL	3	

X0327641 REAL-TIME TRAFFIC CONTROL SENSOR UNIT

STATION	CAL MO	REMARKS
I - 39		
NORTH BOUND LANES	3	
SOUTH BOUND LANES	3	
PROJECT TOTAL	6	

X6026200 INLETS TO BE ADJUSTED (SPECIAL)

STATION	EACH	REMARKS
I - 39		
1935+71.3 - RT 74.5'	1	NORTH BOUND STRUCTURE
1935+71.2 - RT 40.6'	1	NORTH BOUND STRUCTURE
1935+95.1 - LT 40.3'	1	SOUTH BOUND STRUCTURE
1935+95.2 - LT 74.5'	1	SOUTH BOUND STRUCTURE
1940+59.5 - RT 74.3'	1	NORTH BOUND STRUCTURE
1940+58.9 - RT 40.5'	1	NORTH BOUND STRUCTURE
1940+59.2 - LT 40.4'	1	SOUTH BOUND STRUCTURE
1940+59.3 - LT 74.7'	1	SOUTH BOUND STRUCTURE
PROJECT TOTAL	8	

**X7030005 TEMPORARY PAVEMENT MARKING
REMOVAL**

STATION	SQ FT	REMARKS
I - 39		
STAGE II - NORTH & SOUTH		
ENTIRE STAGE I	2,383	TEMPORARY PAVEMENT MARKINGS
STAGE I - EDGE LINES	780	BLACKOUT TAPE
POST STAGE II - NORTH & SOUTH		
ENTIRE STAGE II	2,103	TEMPORARY PAVEMENT MARKINGS
STAGE II - EDGE LINES & CENTER LINE	785	BLACKOUT TAPE
PROJECT TOTAL	6,051	

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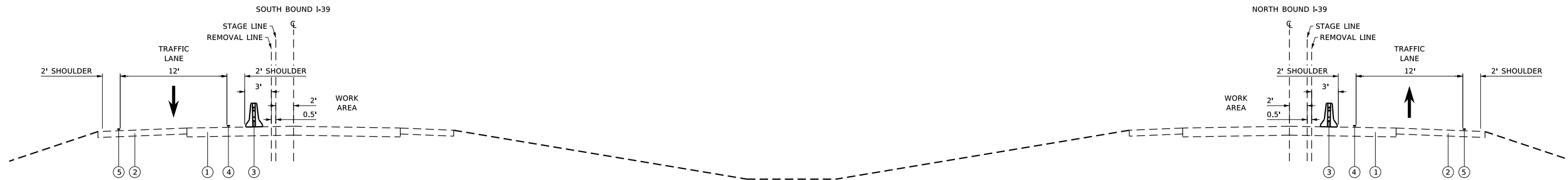


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE N / A	SHEET 2 OF 2 SHEETS	STA. N / A	TO STA. N / A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	06
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				



- ① EXISTING HMA ROADWAY
- ② EXISTING HMA SHOULDER
- ③ TEMPORARY CONCRETE BARRIER
NORTH BOUND - STA: 1933+87.5 TO 1941+05.7
SOUTH BOUND - STA: 1935+49.9 TO 1942+44.4
- ④ TEMPORARY PAVEMENT MARKING - 4" YELLOW
- ⑤ TEMPORARY PAVEMENT MARKING - 4" WHITE

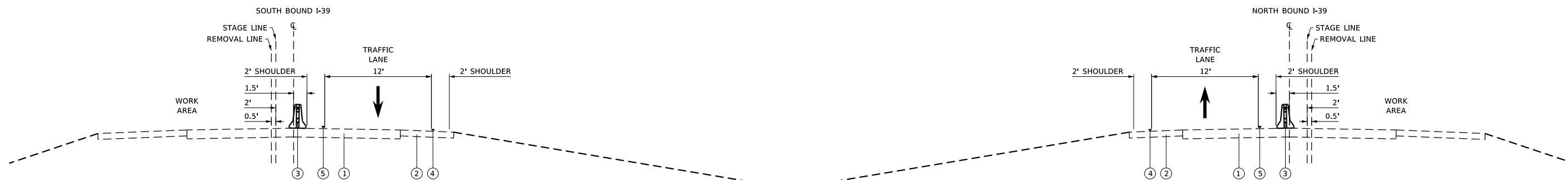
STAGE I CONSTRUCTION TYPICAL SECTION

STA: 1933+87.5 TO 1941+05.7 - NORTH BOUND
 STA: 1935+49.9 TO 1942+44.4 - SOUTH BOUND
 (BRIDGE OMITTED FROM)
 (STA: 1935+75.8 TO 1940+55.7 - NORTH BOUND)
 (STA: 1935+99.9 TO 1940+56.2 - SOUTH BOUND)

NOTES

TRAFFIC LANES SHIFT ONTO EXISTING SHOULDER
 NORTH BOUND - STA: 1931+88.3 TO 1934+50.8
 SOUTH BOUND - STA: 1941+81.2 TO 1944+43.7

TRAFFIC LANES SHIFT BACK ONTO EXISTING ROADWAY
 NORTH BOUND - STA: 1941+05.7 TO 1943+68.2
 SOUTH BOUND - STA: 1932+87.4 TO 1935+49.9



- ① EXISTING HMA ROADWAY
- ② EXISTING HMA SHOULDER
- ③ TEMPORARY CONCRETE BARRIER
NORTH BOUND - STA: 1934+11.5 TO 1941+05.7
SOUTH BOUND - STA: 1935+49.9 TO 1942+20.4
- ④ TEMPORARY PAVEMENT MARKING - 4" YELLOW
- ⑤ TEMPORARY PAVEMENT MARKING - 4" WHITE

STAGE II CONSTRUCTION TYPICAL SECTION

STA: 1934+11.5 TO 1941+05.7 - NORTH BOUND
 STA: 1935+49.9 TO 1942+20.4 - SOUTH BOUND
 (BRIDGE OMITTED FROM)
 (STA: 1935+75.8 TO 1940+55.7 - NORTH BOUND)
 (STA: 1935+99.9 TO 1940+56.2 - SOUTH BOUND)

NOTES

TRAFFIC LANES SHIFT ONTO EXISTING SHOULDER
 NORTH BOUND - STA: 1933+28.3 TO 1935+25.8
 SOUTH BOUND - STA: 1941+06.2 TO 1943+03.7

TRAFFIC LANES SHIFT BACK ONTO EXISTING ROADWAY
 NORTH BOUND - STA: 1941+05.7 TO 1942+28.2
 SOUTH BOUND - STA: 1934+27.4 TO 1935+49.9

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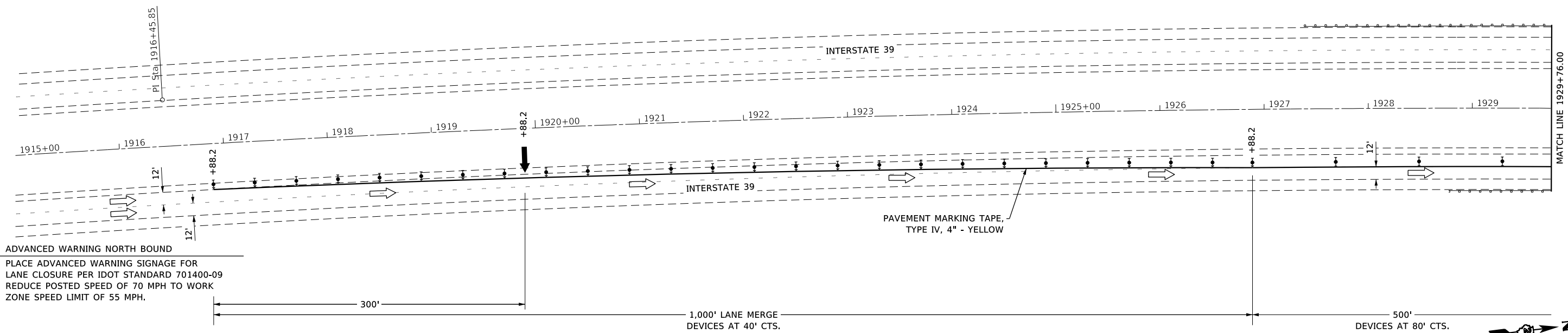
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 DEPARTMENT OF TRANSPORTATION

STAGE I & II CONSTRUCTION TYPICAL SECTIONS

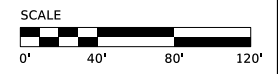
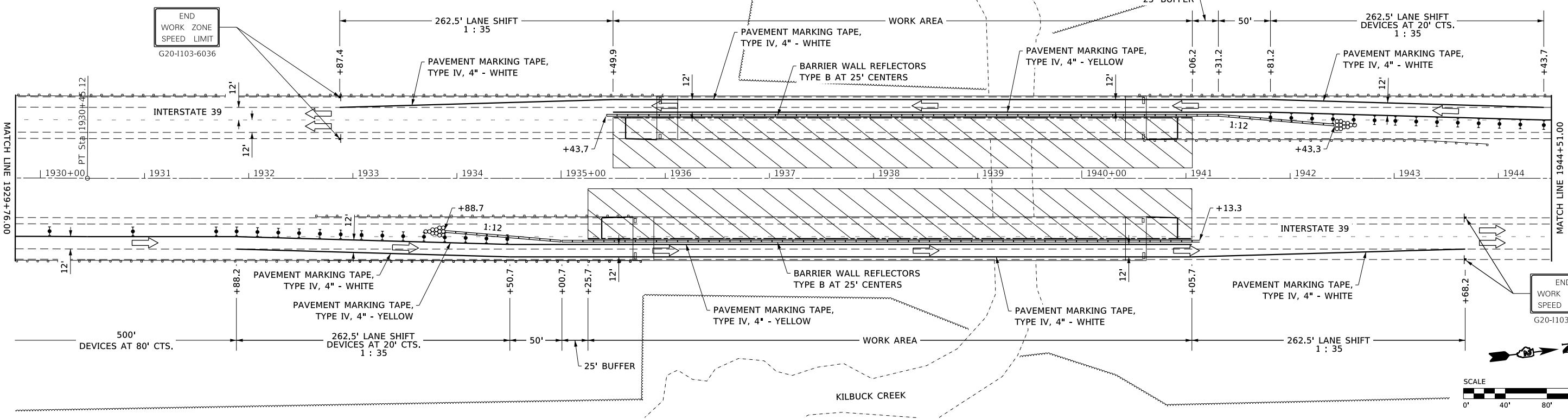
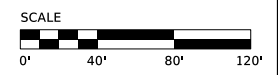
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	07
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				



LEGEND

- ↑ TYPE III BARRICADE
- ↓ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- ↔ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ⊘ IMPACT ATTENUATOR
- ▬ TEMPORARY CONCRETE BARRIER
- ➔ ARROW BOARD
- ⊠ SIGN
- ▨ WORK AREA



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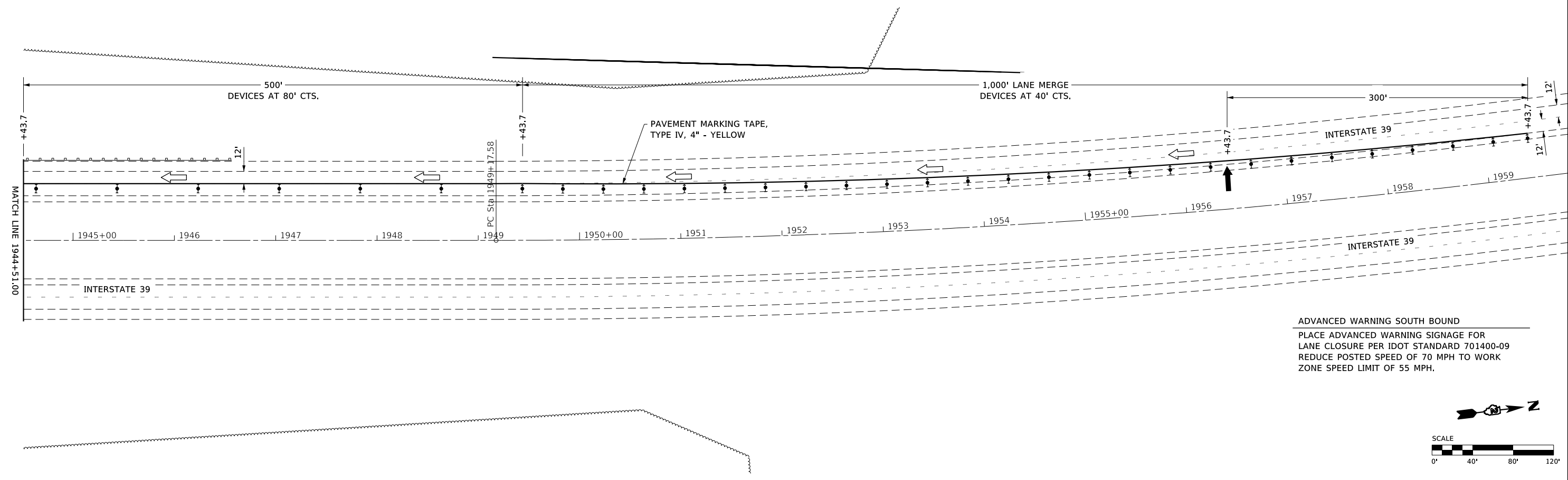
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

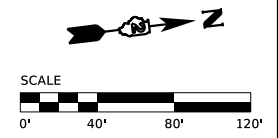
TRAFFIC CONTROL PLAN - STAGE I

SCALE 1 : 100 SHEET 1 OF 4 SHEETS STA. 1915+00.00 TO STA. 1944+51.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	08
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				



ADVANCED WARNING SOUTH BOUND
 PLACE ADVANCED WARNING SIGNAGE FOR
 LANE CLOSURE PER IDOT STANDARD 701400-09
 REDUCE POSTED SPEED OF 70 MPH TO WORK
 ZONE SPEED LIMIT OF 55 MPH.



STAGE I CONSTRUCTION NOTES:

- 1) BLACKOUT CONFLICTING EXISTING PAVEMENT MARKINGS, PLACE TEMPORARY PAVEMENT MARKINGS, AND INSTALL ADVANCED WARNING SIGNS FOR LANE CLOSURE PER STANDARD 701400-09. INSTALL STAGE I TRAFFIC CONTROL CLOSING THE INTERIOR LANE, SHIFT TRAFFIC TO THE EXTERIOR LANE, AND INSTALL TEMPORARY CONCRETE BARRIER PER STANDARDS 701401-12 & 701402-12 USING 701426-09. INSTALL TRAFFIC CONTROL DEVICES FOR BOTH NORTH AND SOUTH BOUND TRAFFIC ON I - 39.
- 2) PERFORM STAGE I PORTION OF STRUCTURE AND DECK REPAIRS, (SEE STAGE CONSTRUCTION DETAILS AND SEQUENCE SHEET IN BRIDGE PLANS).
- 5) REMOVE STAGE I TEMPORARY PAVEMENT MARKINGS, BLACKOUT CONFLICTING EXISTING PAVEMENT MARKINGS, PLACE STAGE II TEMPORARY PAVEMENT MARKINGS, AND RELOCATE TEMPORARY CONCRETE BARRIER TO STAGE II ALIGNMENT PER STANDARDS 701401-12 & 701402-12 USING STANDARDS 701426-09, AND 701901-08.
- 6) SWITCH TRAFFIC TO STAGE II CONSTRUCTION, CLOSING THE EXTERIOR LANE AND SHIFT TRAFFIC TO THE INTERIOR LANE FOR BOTH NORTH AND SOUTH BOUND TRAFFIC ON I - 39.

LEGEND

- | | | | |
|--|--|--|----------------------------|
| | TYPE III BARRICADE | | TEMPORARY CONCRETE BARRIER |
| | TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT | | ARROW BOARD SIGN |
| | DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT | | WORK AREA |
| | IMPACT ATTENUATOR | | |

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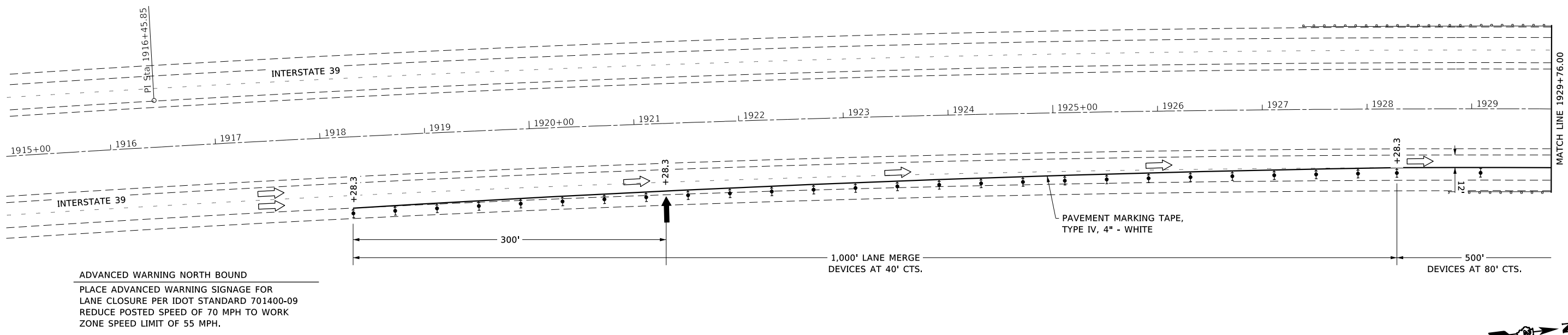
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLAN - STAGE I

SCALE 1 : 100 SHEET 2 OF 4 SHEETS STA. 1944+51.00 TO STA. 1959+78.78

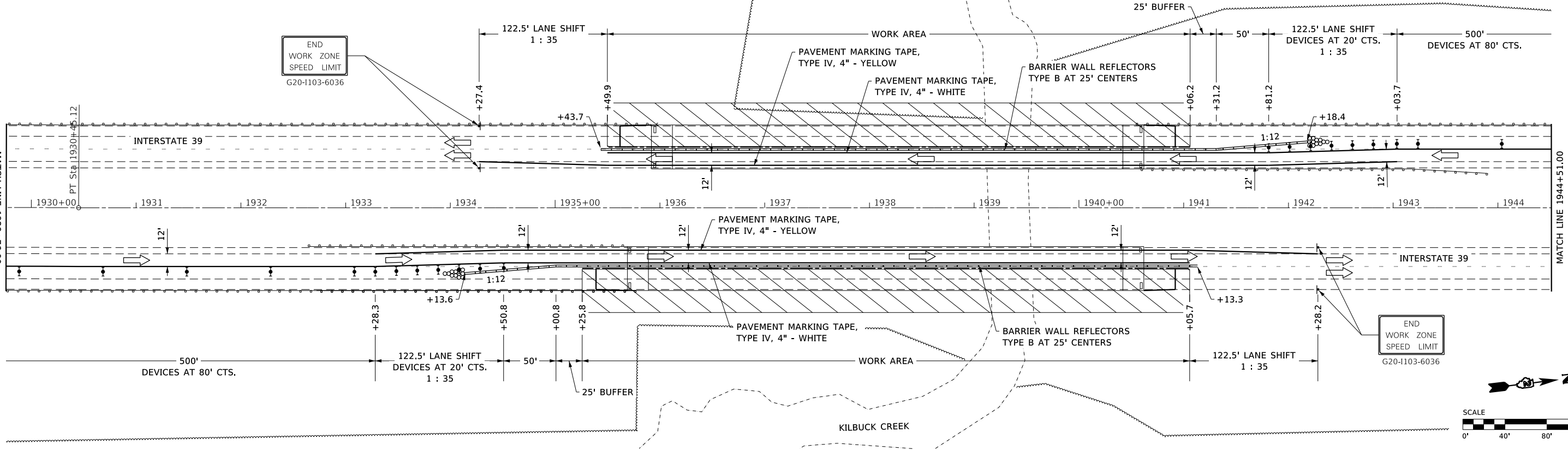
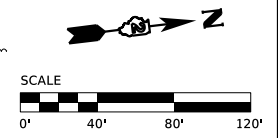
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39	(141-2B-VB)BDR	OGLE	64	09
WHA# 1427D18			CONTRACT NO. 64P04	
ILLINOIS FED. AID PROJECT				



ADVANCED WARNING NORTH BOUND
 PLACE ADVANCED WARNING SIGNAGE FOR
 LANE CLOSURE PER IDOT STANDARD 701400-09
 REDUCE POSTED SPEED OF 70 MPH TO WORK
 ZONE SPEED LIMIT OF 55 MPH.

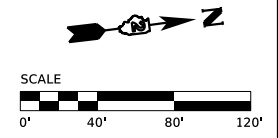
LEGEND

- TT TYPE III BARRICADE
- ⬇ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- ⬇ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- ⊗ IMPACT ATTENUATOR
- ▬ TEMPORARY CONCRETE BARRIER
- ➡ ARROW BOARD
- ⊥ SIGN
- ▨ WORK AREA



END
 WORK ZONE
 SPEED LIMIT
 G20-1103-6036

END
 WORK ZONE
 SPEED LIMIT
 G20-1103-6036



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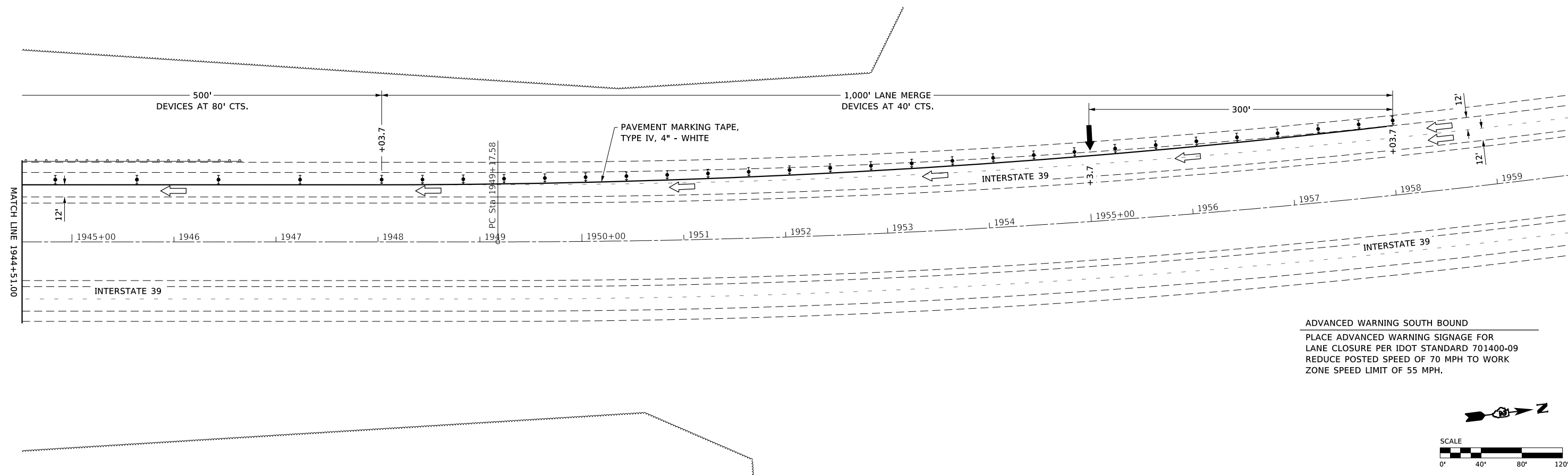
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

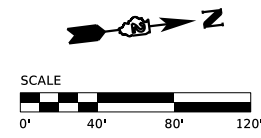
TRAFFIC CONTROL PLAN - STAGE II

SCALE 1 : 100 SHEET 3 OF 4 SHEETS STA. 1915+00.00 TO STA. 1944+51.00

F.A.I. RTE. 39	SECTION (141-2B-VB)BDR	COUNTY OGLE	TOTAL SHEETS 64	SHEET NO. 10
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				



ADVANCED WARNING SOUTH BOUND
 PLACE ADVANCED WARNING SIGNAGE FOR
 LANE CLOSURE PER IDOT STANDARD 701400-09
 REDUCE POSTED SPEED OF 70 MPH TO WORK
 ZONE SPEED LIMIT OF 55 MPH.



STAGE II CONSTRUCTION NOTES:

- 1) PERFORM STAGE II PORTION OF STRUCTURE AND DECK REPAIR, (SEE STAGE CONSTRUCTION DETAILS AND SEQUENCE SHEET IN THE BRIDGE PLANS).
- 2) REMOVE STAGE II CONCRETE BARRIER, TRAFFIC CONTROL DEVICES, AND TEMPORARY PAVEMENT MARKINGS, USING STANDARDS 701426-09 AND 701901-08.
- 3) PERFORM PAVEMENT STRIPING WORK USING STANDARDS 701426-09 AND 701901-08.

LEGEND

- | | | | |
|--|--|--|----------------------------|
| | TYPE III BARRICADE | | TEMPORARY CONCRETE BARRIER |
| | TYPE II BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT | | ARROW BOARD |
| | DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT | | SIGN |
| | IMPACT ATTENUATOR | | WORK AREA |

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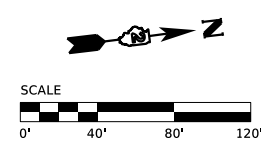
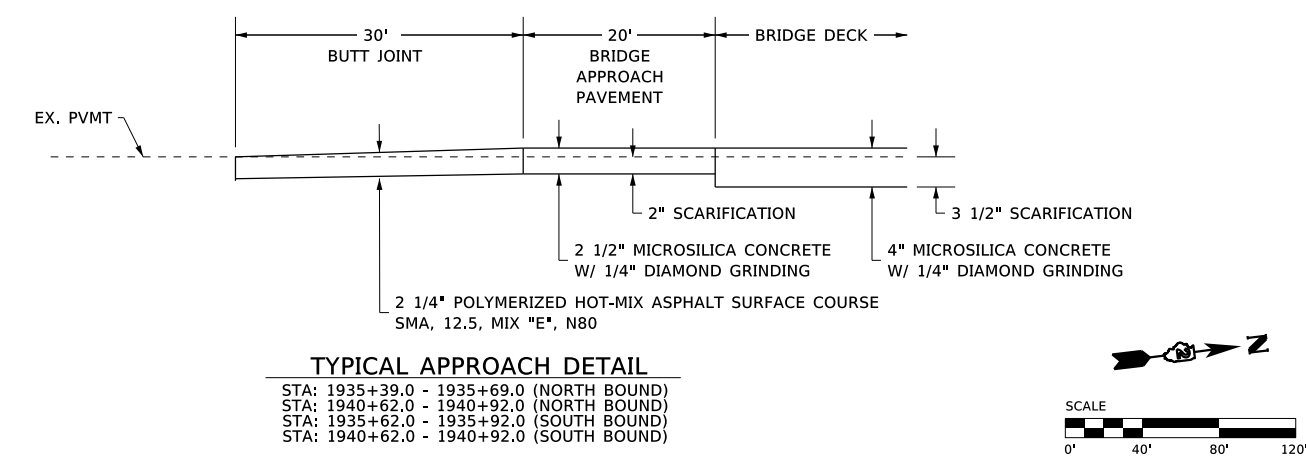
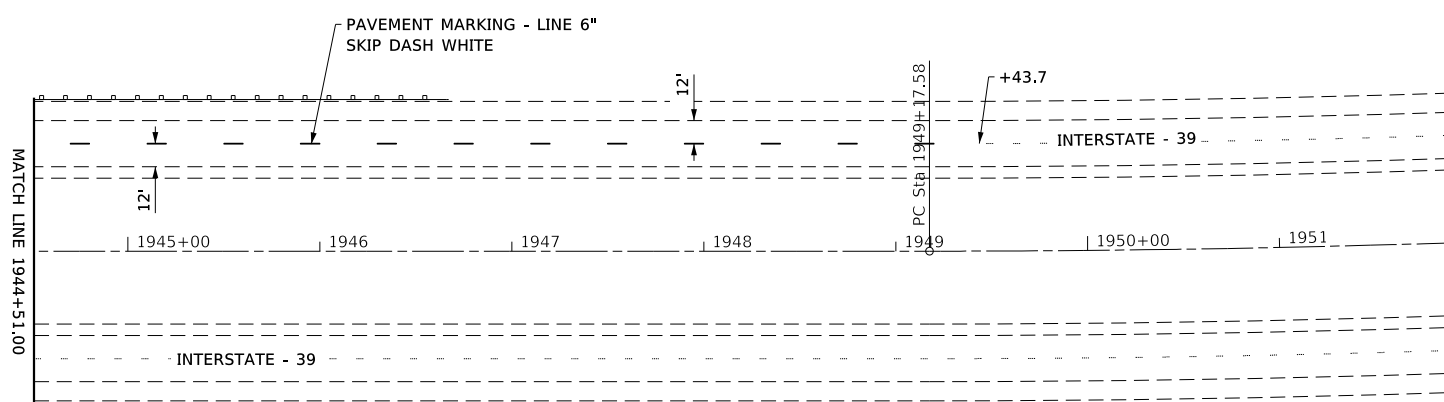
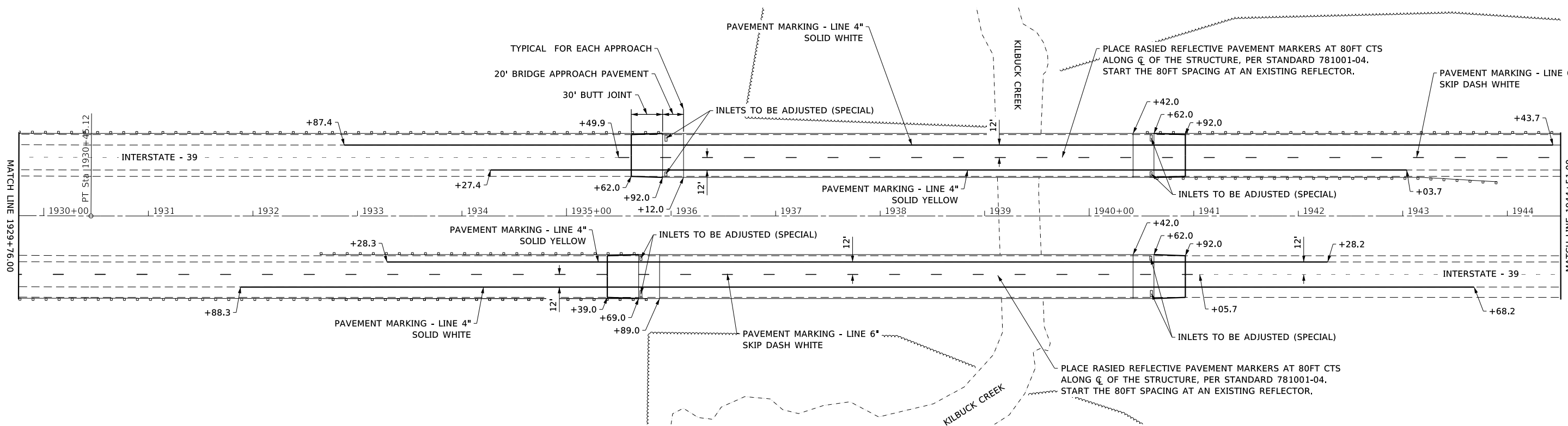
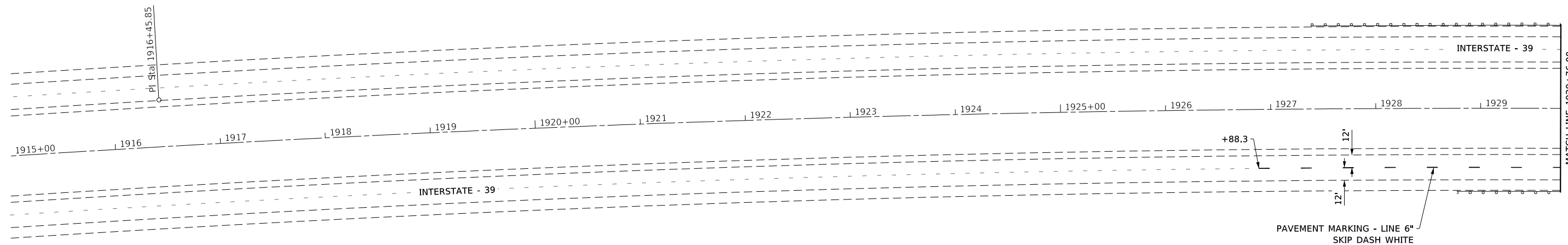
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLAN - STAGE II

SCALE 1 : 100 SHEET 4 OF 4 SHEETS STA. 1944+51.00 TO STA. 1959+78.78

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	11
WHA# 1427D18			CONTRACT NO. 64P04	
ILLINOIS FED. AID PROJECT				



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PLT DATE = 7/27/2020	DATE - 07/01/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RESTORATION & PAVEMENT MARKING PLAN

SCALE 1 : 100 SHEET 1 OF 1 SHEETS STA. 1915+00.00 TO STA. 1951+50.00

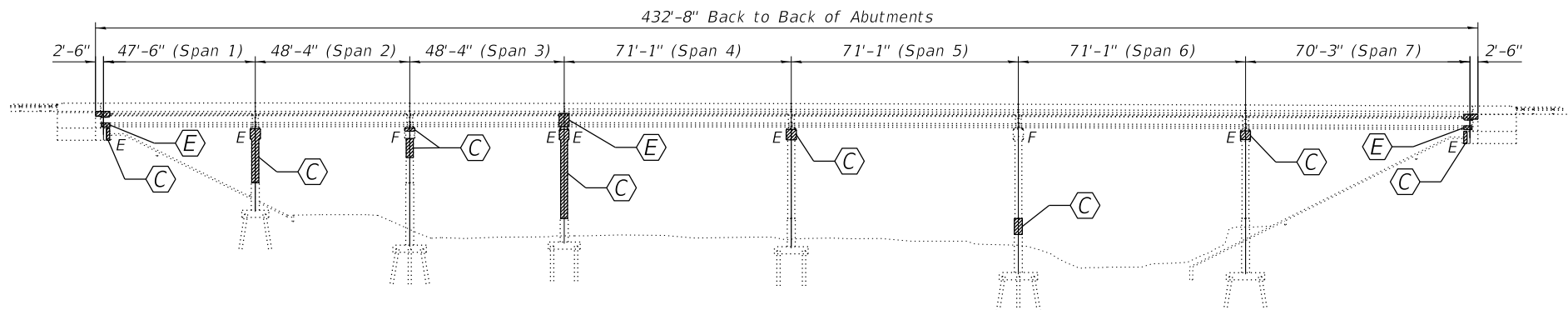
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39	(141-2B-VB)BDR	OGLE	64	12
WHA# 1427D18			CONTRACT NO. 64P04	
ILLINOIS FED. AID PROJECT				

Existing Structure: S.N. 071-0052 originally built 1981 and repaired in 2002 as a seven span PPC I-Beam Superstructure with open abutments and multi column piers. The back to back length is 432'-8" and out to out width is 42'-0". Structures to be repaired as detailed in plans. Stage construction will be used to maintain one lane of traffic each direction.

No Salvage.

SOUTH BOUND BILL OF MATERIAL (S.N. 071-0052)

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	11.4	—	11.4
Concrete Superstructure	Cu. Yd.	11.9	—	11.9
Protective Coat	Sq. Yd.	2,057	—	2,057
Reinforcement Bars, Epoxy Coated	Pound	3,420	—	3,420
Bar Splicers	Each	38	—	38
Preformed Joint Strip Seal	Foot	123	—	123
Controlled Low-Strength Material	Cu. Yd.	—	15.7	15.7
Bridge Deck Scarification 2"	Sq. Yd.	172	—	172
Bridge Deck Scarification 3 1/2"	Sq. Yd.	1,853	—	1,853
Bridge Deck Microsilica Concrete Overlay 2 1/2"	Sq. Yd.	172	—	172
Bridge Deck Microsilica Concrete Overlay 4"	Sq. Yd.	1,853	—	1,853
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	559.8	706.4	1,266.2
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	56.0	70.6	126.6
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1	—	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	4	—	4
Diamond Grinding (Bridge Section)	Sq. Yd.	1,835	—	1,835
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	37.3	—	37.3
Cleaning and Painting Exposed Rebar	L. Sum	—	—	0.5
Acrylic Coating	Sq. Yd.	384.8	62.2	447.0
Fiber Wrap	Sq. Ft.	136.8	560.0	696.8
Bridge Deck Grooving (Longitudinal)	Cu. Yd.	1,296	—	1,296



ELEVATION

INDEX OF SHEETS

- 1 General Plan and Elevation
- 3-4 Staging Details
- 5 Temporary Concrete Barrier for Staged Construction
- 6 Deck Repair - Full Depth
- 7 Abutment Joint Details
- 8 Joint Replacement Detail - Pier 3
- 11 Joint Replacement and Repair Details
- 12 Modified Preformed Joint Strip Details
- 13 Bar Splicer assembly and Mechanical Splicer Details
- 14-15 Beam Repair Details
- 18-19 West Parapet Repair Details Southbound Structure
- 20-21 East Parapet Repair Details Southbound Structure
- 26 Abutment Repair Details
- 27-35 Piers 1 - 6 Structural Repair Details
- 45 Slopewall Repair Details

DESIGN STRESSES

FIELD UNITS (EXIST. CONST.)

$f'_c = 3,500$ psi (Concrete Slab)
 $f_y = 60,000$ psi (Reinforcement for Slab)

PRECAST PRESTRESSED UNITS (EXIST. CONST.)

$f'_c = 5,000$ psi
 $f_{ci} = 4,000$ psi
 $f'_s = 270,000$ psi (1/2" Ø Strands)
 $f'_{si} = 189,000$ psi. (1/2" Ø Strands)

FIELD UNITS (NEW CONST.)

$f'_c = 4,000$ psi (Superstructure)
 $f_y = 60,000$ psi

LOADING HS20-44

Existing and Proposed

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges.

GENERAL NOTES

This structure will retain the same number 071-0052.

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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.

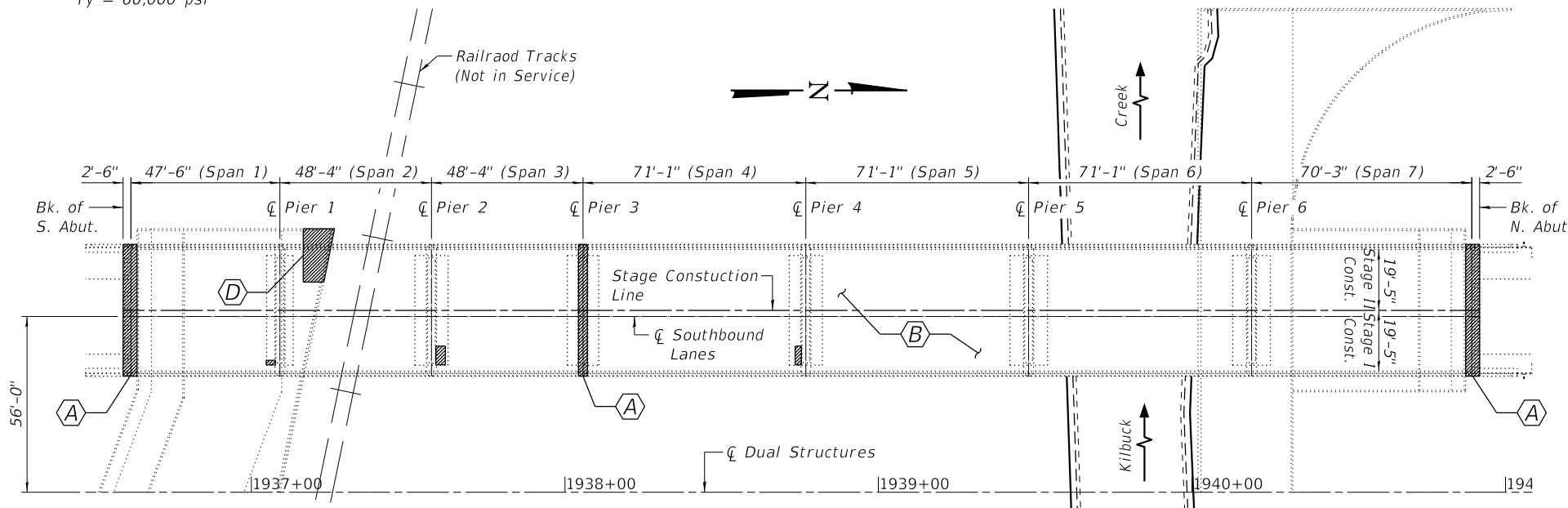
All areas of exposed rebar noted in the plans shall be cleaned and painted as noted in the Project Special Provisions.

Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specification when the joint is poured at an ambient temperature other than 50°F.

Protective coat shall be applied to top and inside faces of new and repaired parapets and new deck section on either side of expansion joint.

Side Retainers on Beam 1 and Beam 6 that may cause interference with Fiber Wrap may be removed from the beam seats and reinstalled after the completion of the work. Cost incidental to Fiber Wrap pay item.

Prior to pouring the new 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 the removal of the existing concrete.



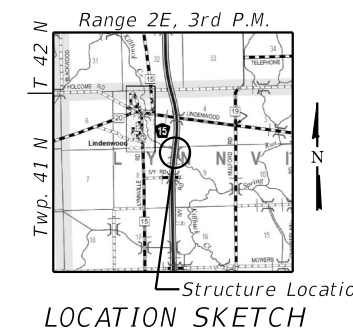
PLAN

SCOPE OF WORK

- (A) Remove existing Expansion Joints and install new Preformed Joint Strip Seals
- (B) Install new 4" Microsilica Concrete Overlay on the existing deck. See structural sheet 3 of 45 for details
- (C) Structural Repair of Concrete. See structural sheets 27 thru 35 of 45 for details.
- (D) Slopewall Repair.
- (E) Beam Repair at various location.



DATE: 9-18-2020
 EXPIRES 11/30/20



GENERAL PLAN AND ELEVATION
F.A.I. RT. 39 & U.S. RT. 51 (SB)
SECTION (141-2B-VB)BDR
OVER KILBUCK CREEK
OGLE COUNTY
STATION 1938+75.42
STRUCTURE NO. 071-0052

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PLOT DATE =	DRAWN - FDL	REVISED -
	CHECKED - BKC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL SHEET 1 OF 45 SHEETS

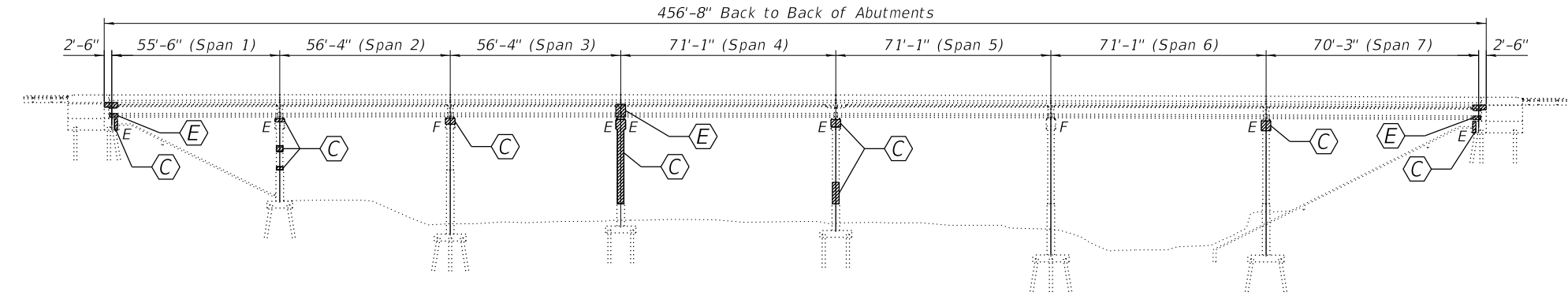
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39	(141-2B-VB)BDR	OGLE	64	13
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

Existing Structure: S.N. 071-0053 originally built 1981 and repaired in 2002 as a seven span PPC I-Beam Superstructure with open abutments and multi column piers. The back to back length is 456'-8" and out to out width is 42'-0". Structures to be repaired as detailed in plans. Stage construction will be used to maintain one lane of traffic each direction.

No Salvage.

NORTH BOUND BILL OF MATERIAL (S.N. 071-0053)

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	11.4	—	11.4
Concrete Superstructure	Cu. Yd.	11.9	—	11.9
Protective Coat	Sq. Yd.	2,159	—	2,159
Reinforcement Bars, Epoxy Coated	Pound	3,420	—	3,420
Bar Splicers	Each	38	—	38
Preformed Joint Strip Seal	Foot	123	—	123
Controlled Low-Strength Material	Cu. Yd.	—	56.4	56.4
Bridge Deck Scarification 2"	Sq. Yd.	172	—	172
Bridge Deck Scarification 3 1/2"	Sq. Yd.	1,956	—	1,956
Bridge Deck Microsilica Concrete Overlay 2 1/2"	Sq. Yd.	172	—	172
Bridge Deck Microsilica Concrete Overlay 4"	Sq. Yd.	1,956	—	1,956
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	1,089.3	467.7	1,557.0
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	108.9	46.8	155.7
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1	—	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1	—	1
Diamond Grinding (Bridge Section)	Sq. Yd.	1,928	—	1,928
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	79.3	—	79.3
Cleaning and Painting Exposed Rebar	L. Sum	—	—	0.5
Acrylic Coating	Sq. Yd.	410.4	65.0	475.4
Fiber Wrap	Sq. Ft.	197.3	584.5	781.8
Bridge Deck Grooving (Longitudinal)	Cu. Yd.	1,333	—	1,333



DESIGN STRESSES

FIELD UNITS (EXIST. CONST.)

$f'_c = 3,500$ psi (Concrete Slab)
 $f_y = 60,000$ psi (Reinforcement for Slab)

PRECAST PRESTRESSED UNITS (EXIST. CONST.)

$f'_c = 5,000$ psi
 $f_{ci} = 4,000$ psi
 $f'_s = 270,000$ psi (1/2" Ø Strands)
 $f'_{si} = 189,000$ psi. (1/2" Ø Strands)

FIELD UNITS (NEW CONST.)

$f'_c = 4,000$ psi (Superstructure)
 $f_y = 60,000$ psi

ELEVATION

LOADING HS20-44
 Existing and Proposed

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges.

INDEX OF SHEETS

- 2 General Plan and Elevation
- 3-4 Staging Details
- 5 Temporary Concrete Barrier for Staged Construction
- 6 Deck Repair - Full Depth
- 9 Abutment Joint Details
- 10 Joint Replacement Detail - Pier 3
- 11 Joint Replacement and Repair Details
- 12 Modified Preformed Joint Strip Details
- 13 Bar Splicer assembly and Mechanical Splicer Details
- 16-17 Beam Repair Details
- 22-23 West Parapet Repair Details Southbound Structure
- 24-25 East Parapet Repair Details Southbound Structure
- 26 Abutment Repair Details
- 36-44 Piers 1 - 6 Structural Repair Details
- 45 Slopewall Repair Details

GENERAL NOTES

This structure will retain the same number 071-0053.

Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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.

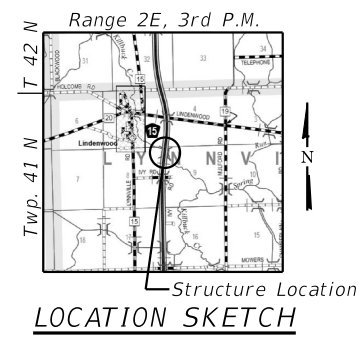
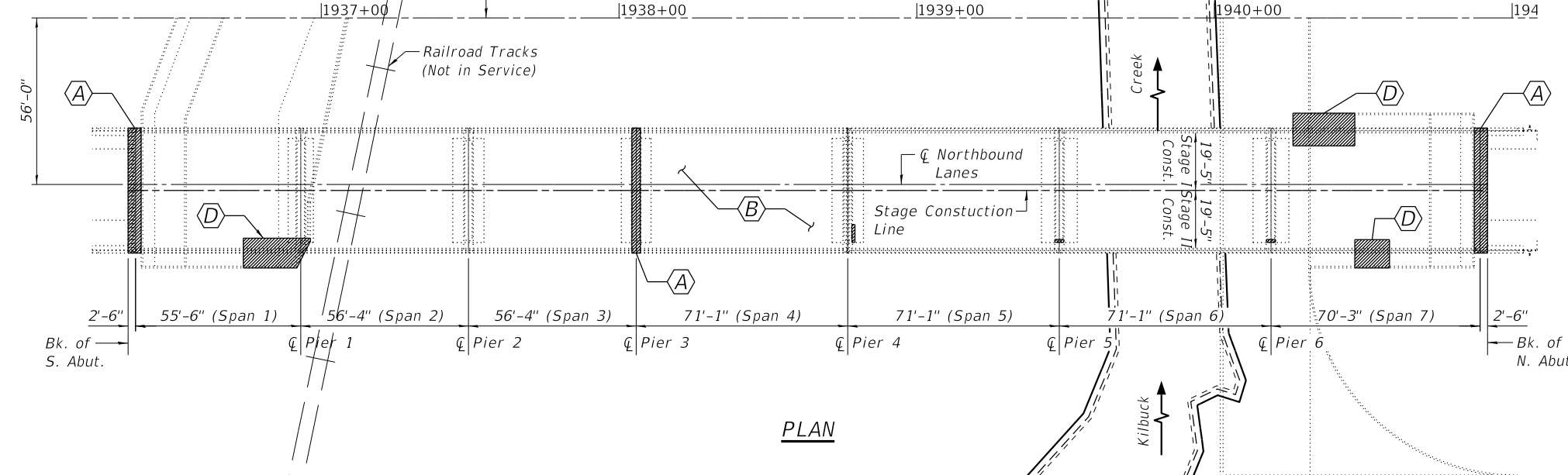
All areas of exposed rebar noted in the plans shall be cleaned and painted as noted in the Project Special Provisions.

Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specification when the joint is poured at an ambient temperature other than 50°F.

Protective coat shall be applied to top and inside faces of new and repaired parapets and new deck section on either side of expansion joint.

Side Retainers on Beam 1 and Beam 6 that may cause interference with Fiber Wrap may be removed from the beam seats and reinstalled after the completion of the work. Cost incidental to Fiber Wrap pay item.

Prior to pouring the new 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 the removal of the existing concrete.



GENERAL PLAN AND ELEVATION
F.A.I. RT. 39 & U.S. RT. 51 (NB)
SECTION (141-2B-VB)BDR
OVER KILBUCK CREEK
OGLE COUNTY
STATION 1938+63.42
STRUCTURE NO. 071-0053



DATE: 9-18-2020
 EXPIRES 11/30/20

SCOPE OF WORK

- (A) Remove existing Expansion Joints and install new Preformed Joint Strip Seals
- (B) Install new 4" Microsilica Concrete Overlay on the existing deck. See structural sheet 3 of 45 for details
- (C) Structural Repair of Concrete. See structural sheets 36 thru 44 of 45 for details.
- (D) Slopewall Repair.
- (E) Beam Repair at various location.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

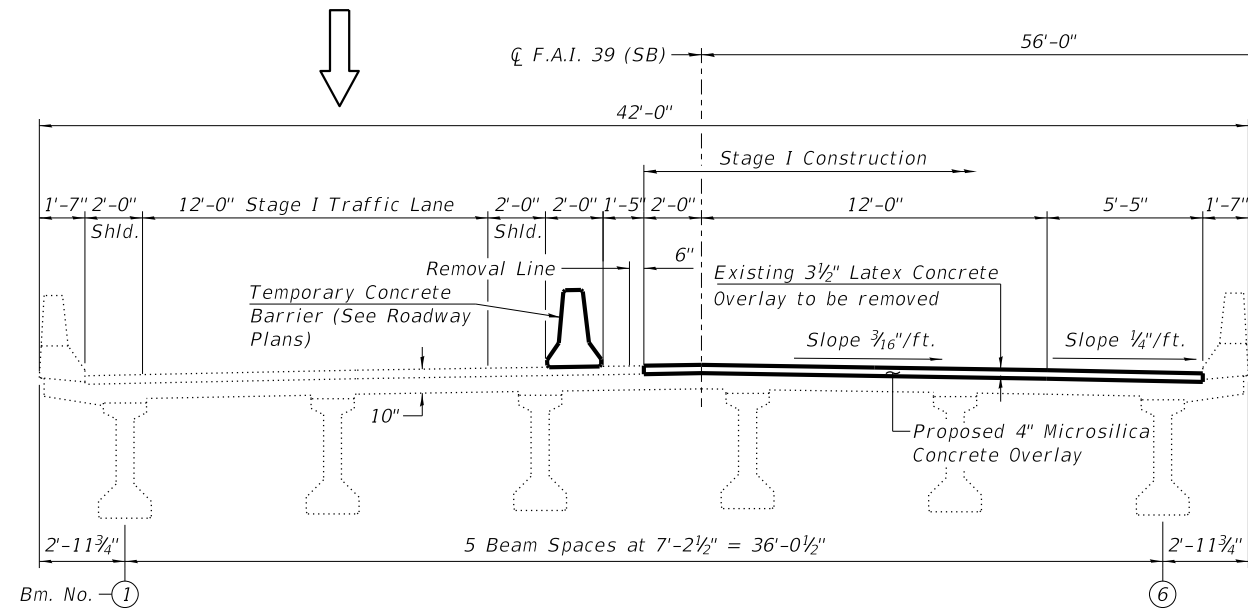


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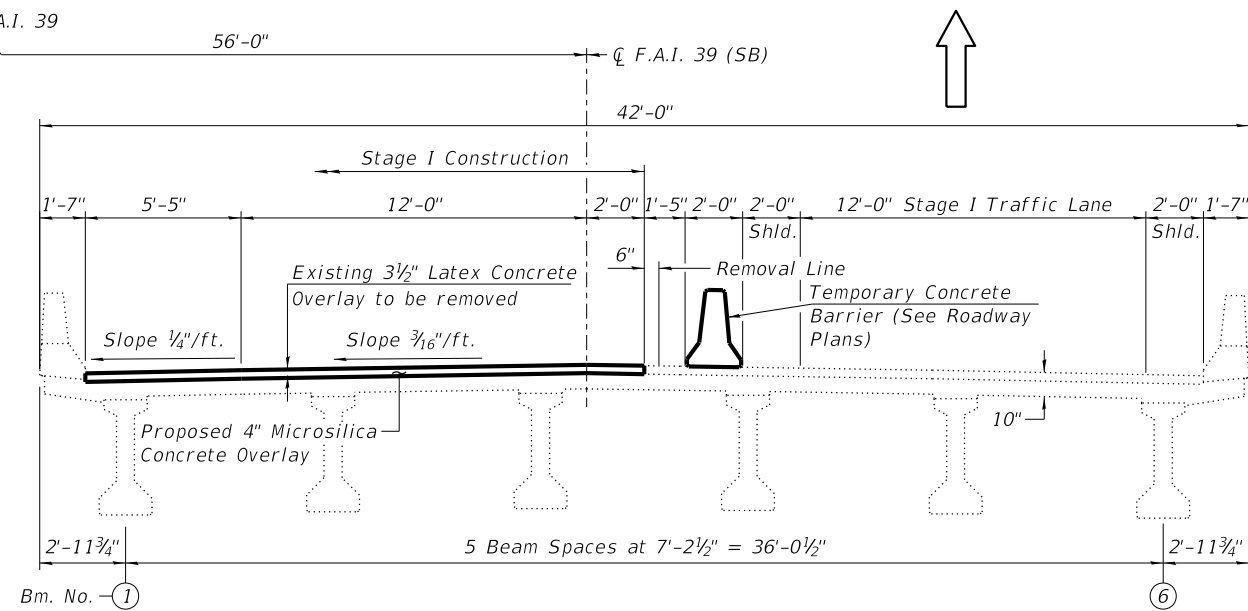
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WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

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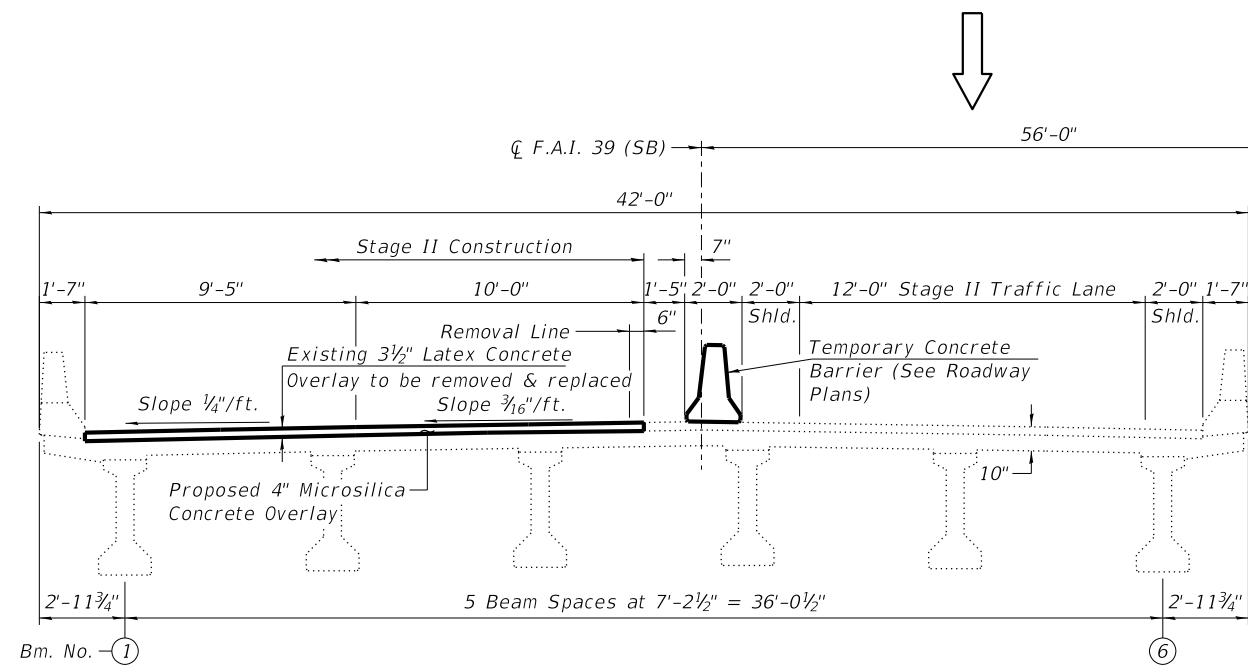
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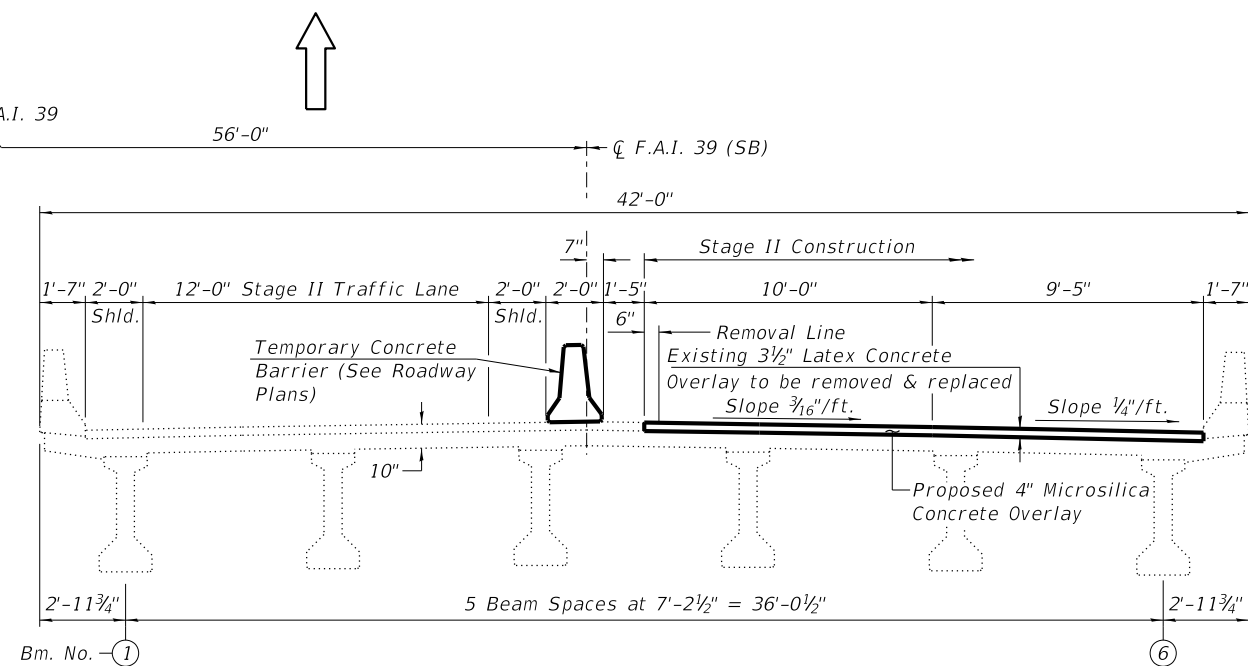
SOUTHBOUND DECK CROSS SECTION - STAGE I
 (Looking North - Upstation)



NORTHBOUND DECK CROSS SECTION - STAGE I
 (Looking North - Upstation)



SOUTHBOUND DECK CROSS SECTION - STAGE II
 (Looking North - Upstation)



NORTHBOUND DECK CROSS SECTION - STAGE II
 (Looking North - Upstation)



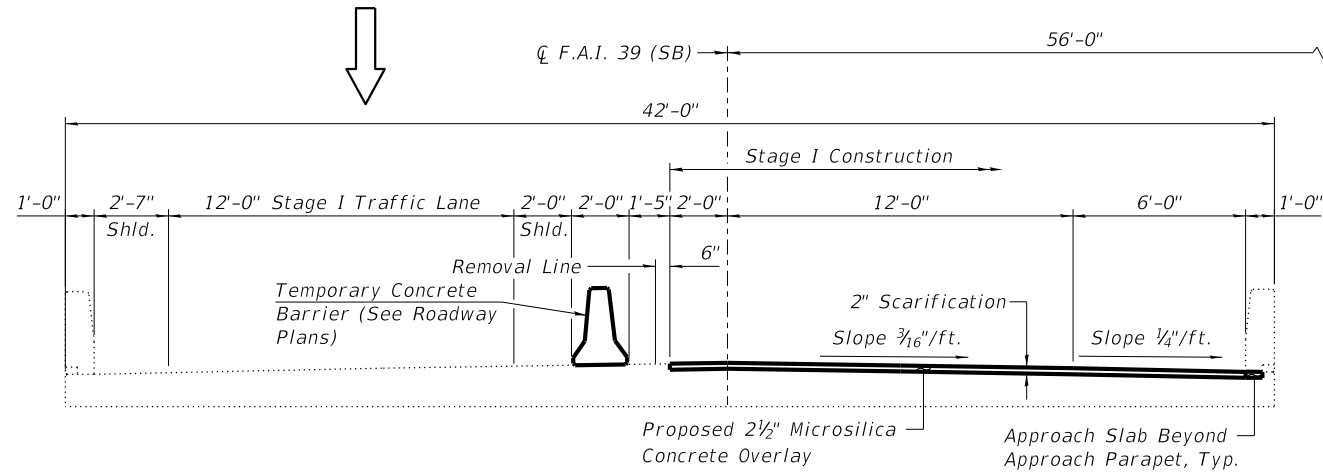
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

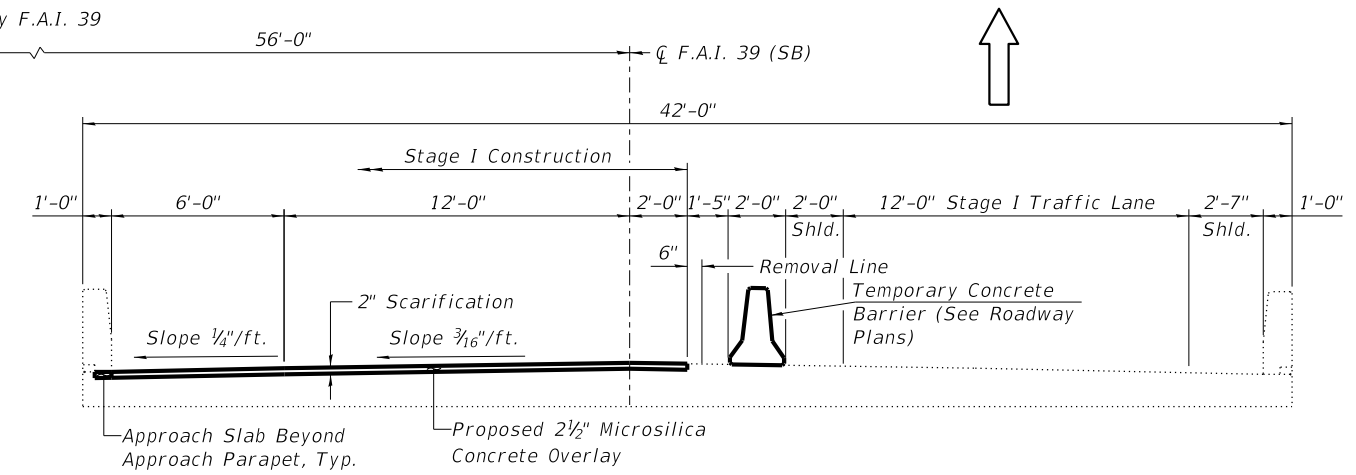
**STAGING DETAILS
 STRUCTURE NO. 071-0052 (SB) & 071-0053 (NB)**

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WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

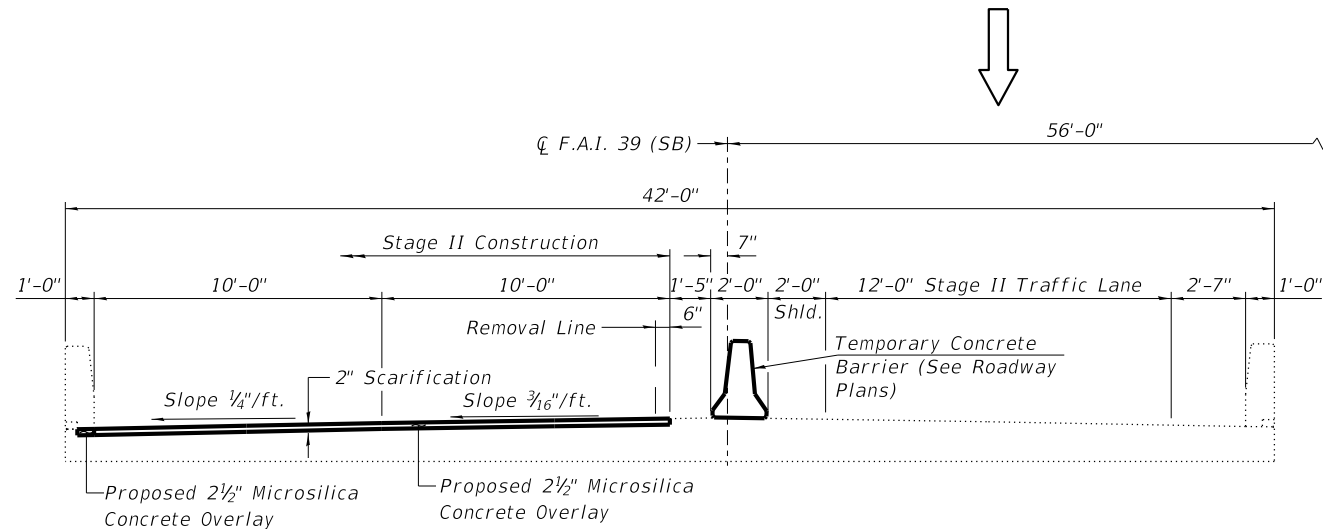
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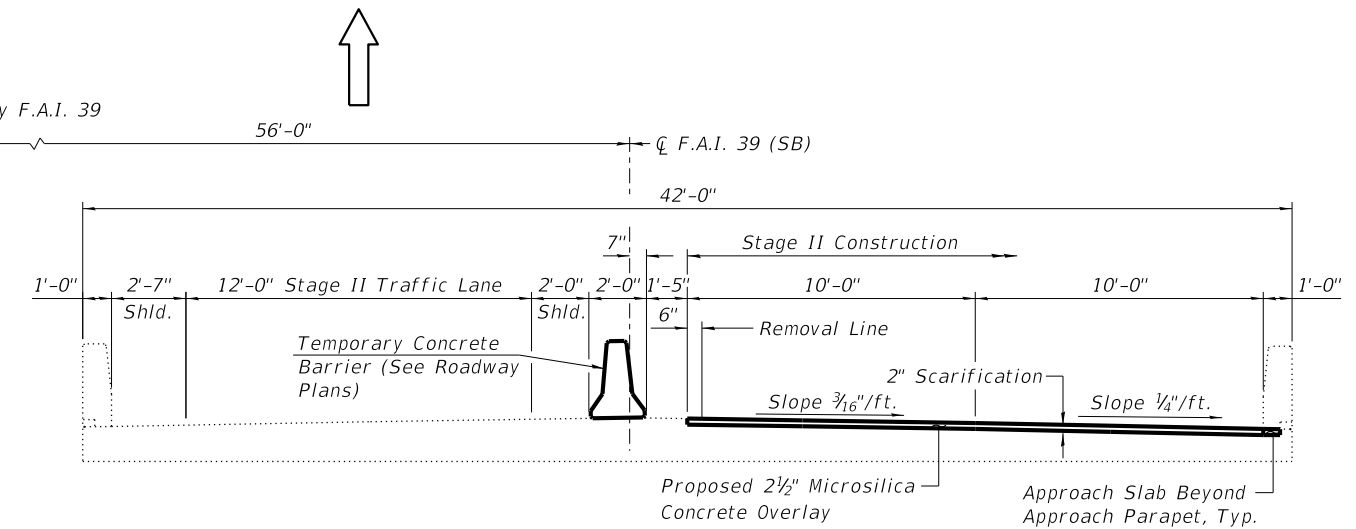
SOUTHBOUND APPROACH CROSS SECTION - STAGE I
 (Looking North - Upstation)



NORTHBOUND APPROACH CROSS SECTION - STAGE I
 (Looking North - Upstation)



SOUTHBOUND APPROACH CROSS SECTION - STAGE II
 (Looking North - Upstation)



NORTHBOUND APPROACH CROSS SECTION - STAGE II
 (Looking North - Upstation)

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGING DETAILS
 STRUCTURE NO. 071-0052 (SB) & 071-0053 (NB)**

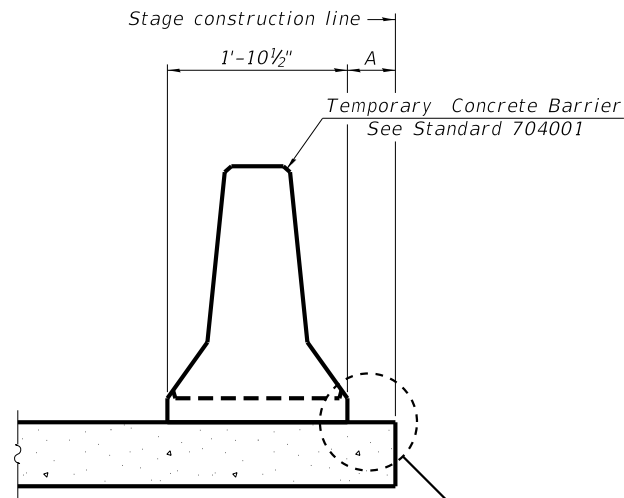


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WHA# 1427D18		CONTRACT NO. 64P04		
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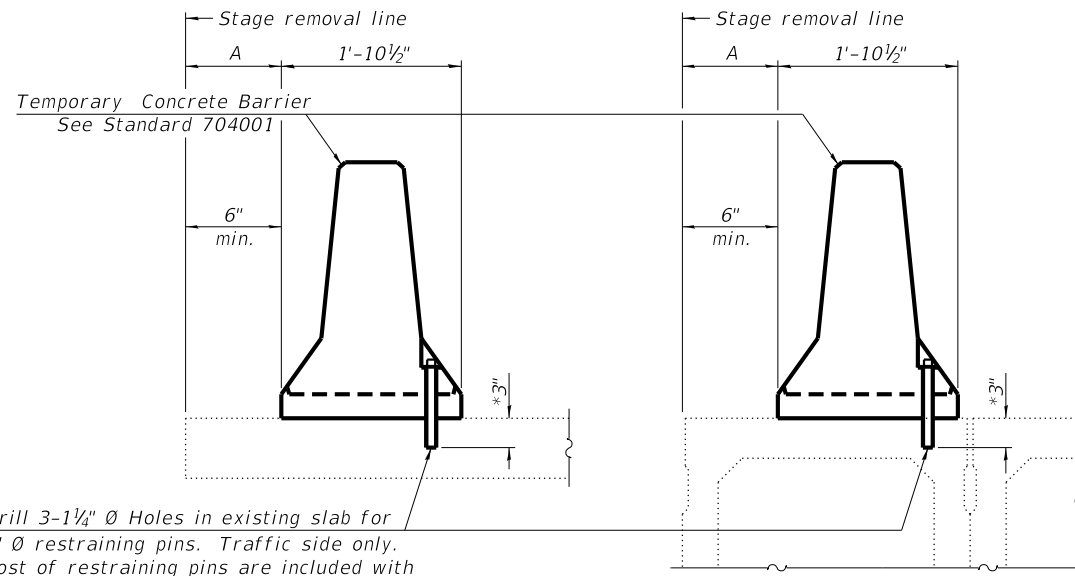
STRUCTURAL SHEET 4 OF 45 SHEETS

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When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

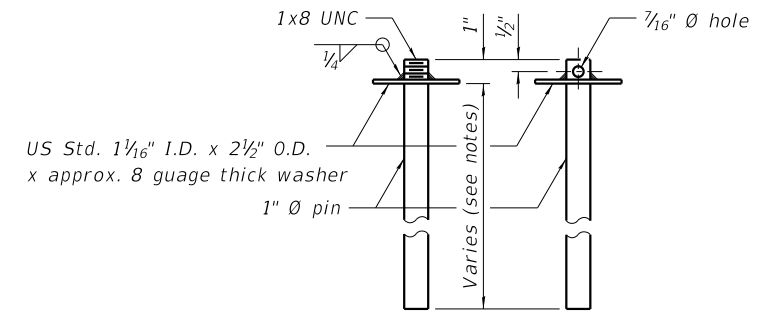


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

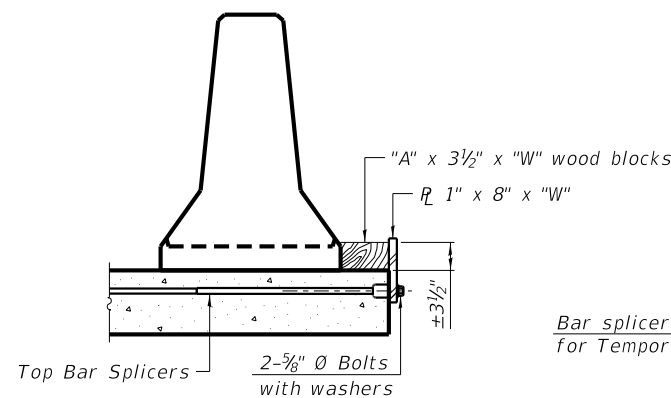
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

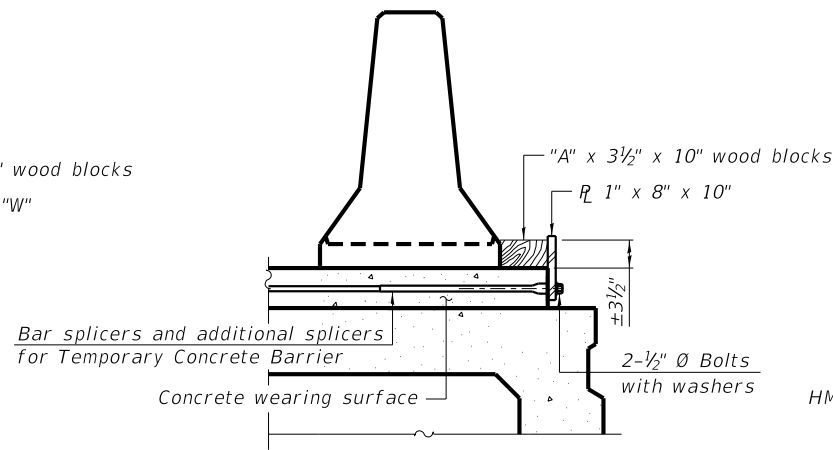


RESTRAINING PIN

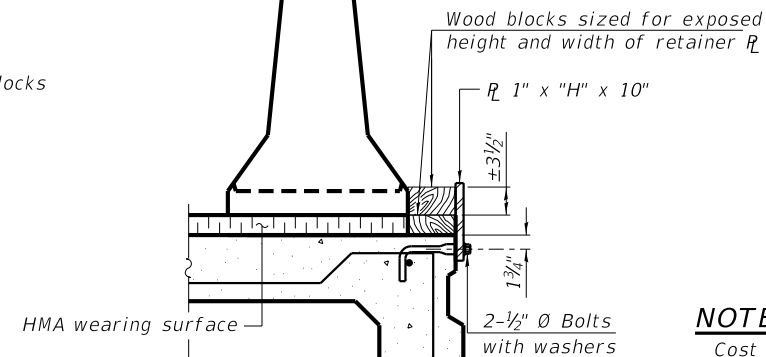
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



DETAIL I

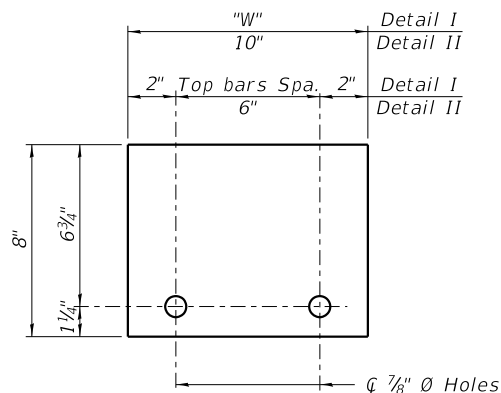


DETAIL II

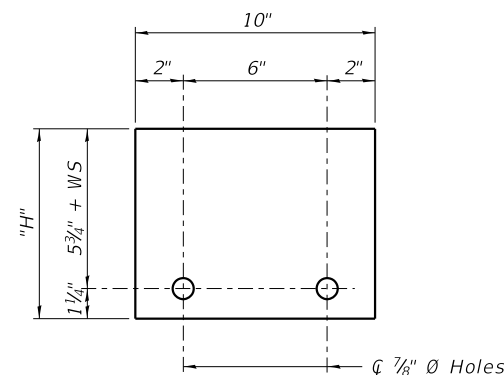


DETAIL III

BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

NOTES:

- Cost of retainer assembly is included with Temporary Concrete Barrier.
- A retainer assembly shall be located at the approximate center of each temporary concrete barrier.
- The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
- When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.
- For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.
- Detail I - Installation for a new bridge deck or bridge slab.
- Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
- Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



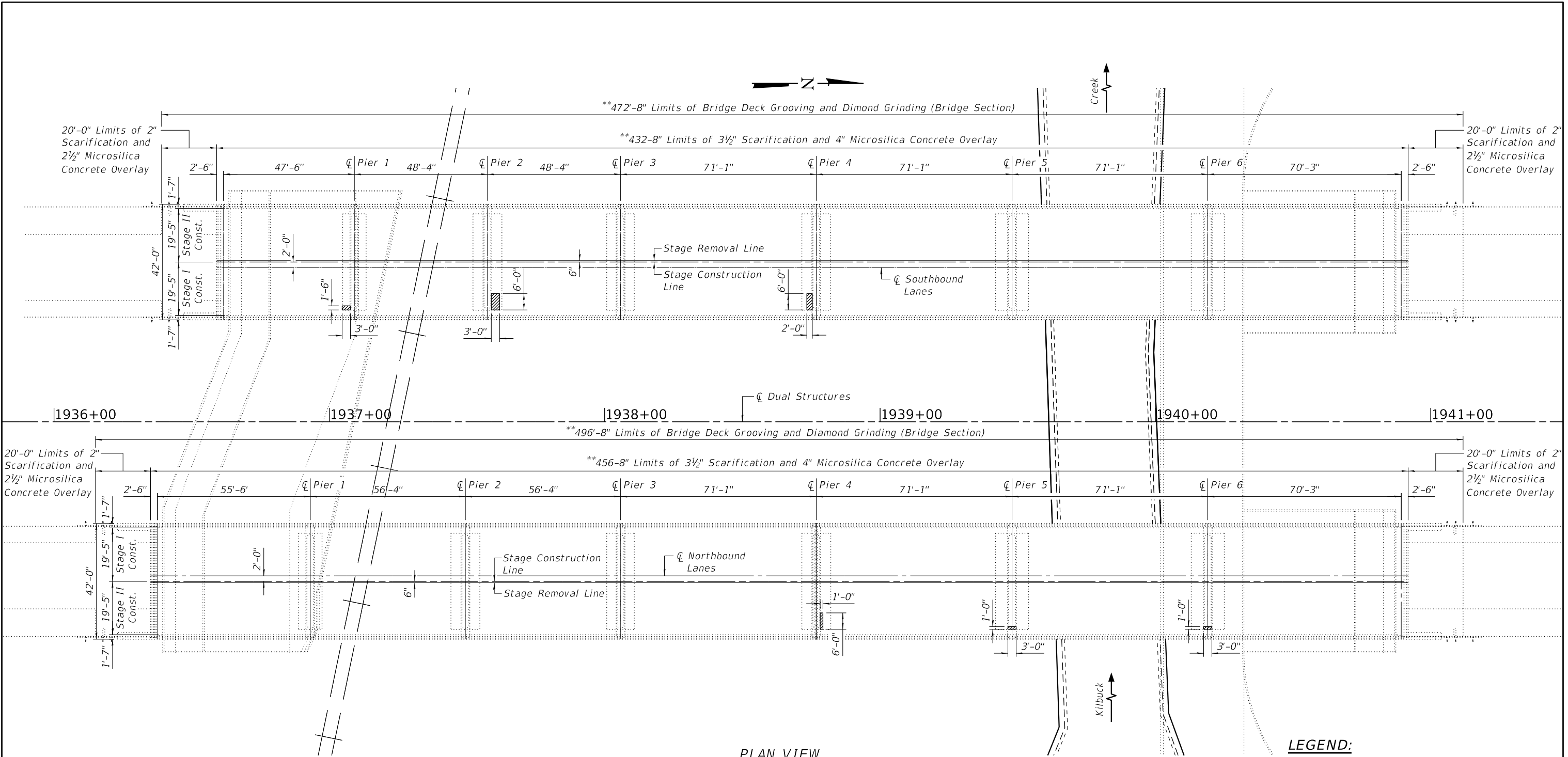
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 071-0052 (SB) & 071-0053 (NB)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	17
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

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PLAN VIEW

LEGEND:
 Deck Slab Repair (Full Depth)

** Joint Repair limits are omitted from Bridge Deck Scarification, and Microsilica Concrete Overlay pay items (not shown on this sheet). Approach Shoulder Pavement Drains shall also be omitted from Diamond Grinding, Bridge Deck Scarification, and Microsilica Concrete Overlay pay items.

BILL OF MATERIAL

Item	Unit	S.B.	N.B.
Protective Coat	Sq. Yd.	2,057	2,159
Bridge Deck Scarification 2"	Sq. Yd.	172	172
Bridge Deck Scarification 3 1/2"	Sq. Yd.	1,853	1,956
Bridge Deck Microsilica Concrete Overlay 2 1/2"	Sq. Yd.	172	172
Bridge Deck Microsilica Concrete Overlay 4"	Sq. Yd.	1,853	1,956
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	1	1
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	4	1
Diamond Grinding (Bridge Section)	Sq. Yd.	1,835	1,928
Bridge Deck Grooving (Longitudinal)	Cu. Yd.	1,269	1,333



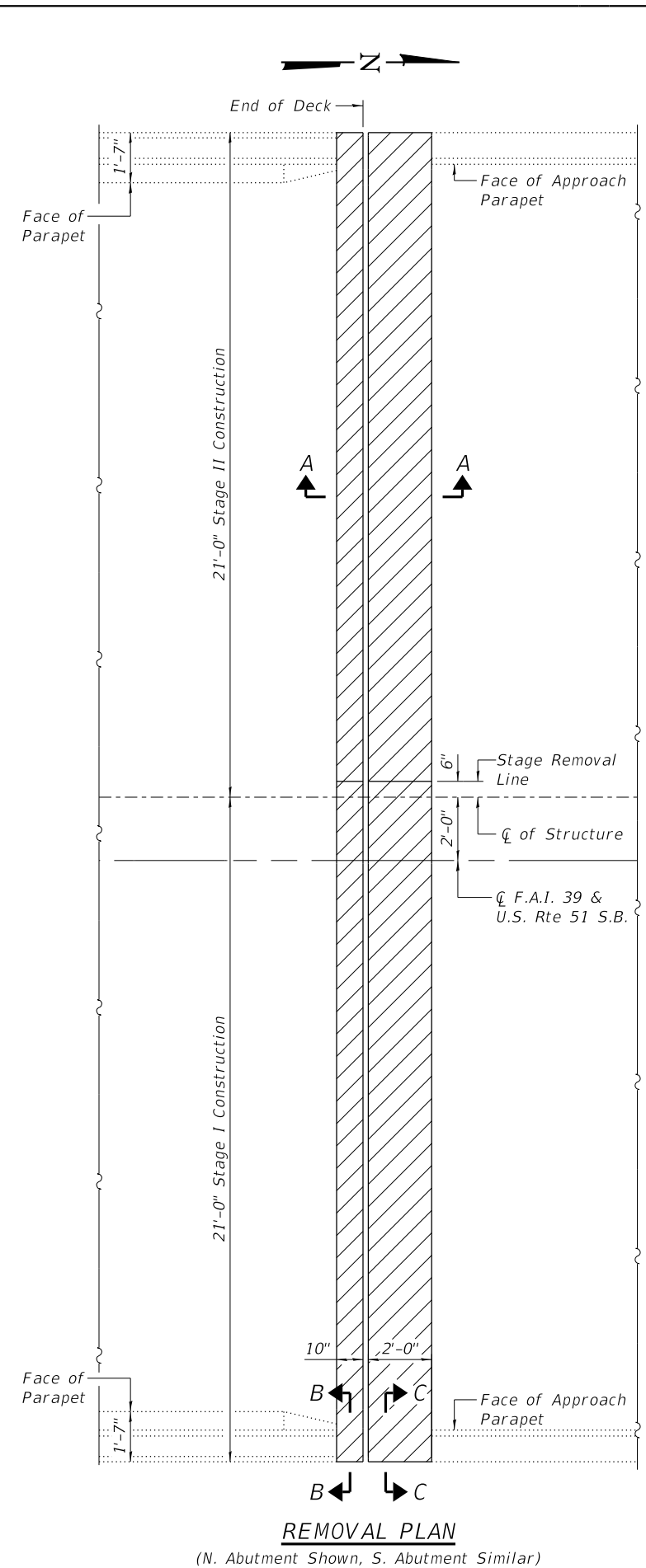
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DECK SLAB REPAIR - FULL DEPTH
 STRUCTURE NO. 071-0052 (SB) & 071-0053 (NB)

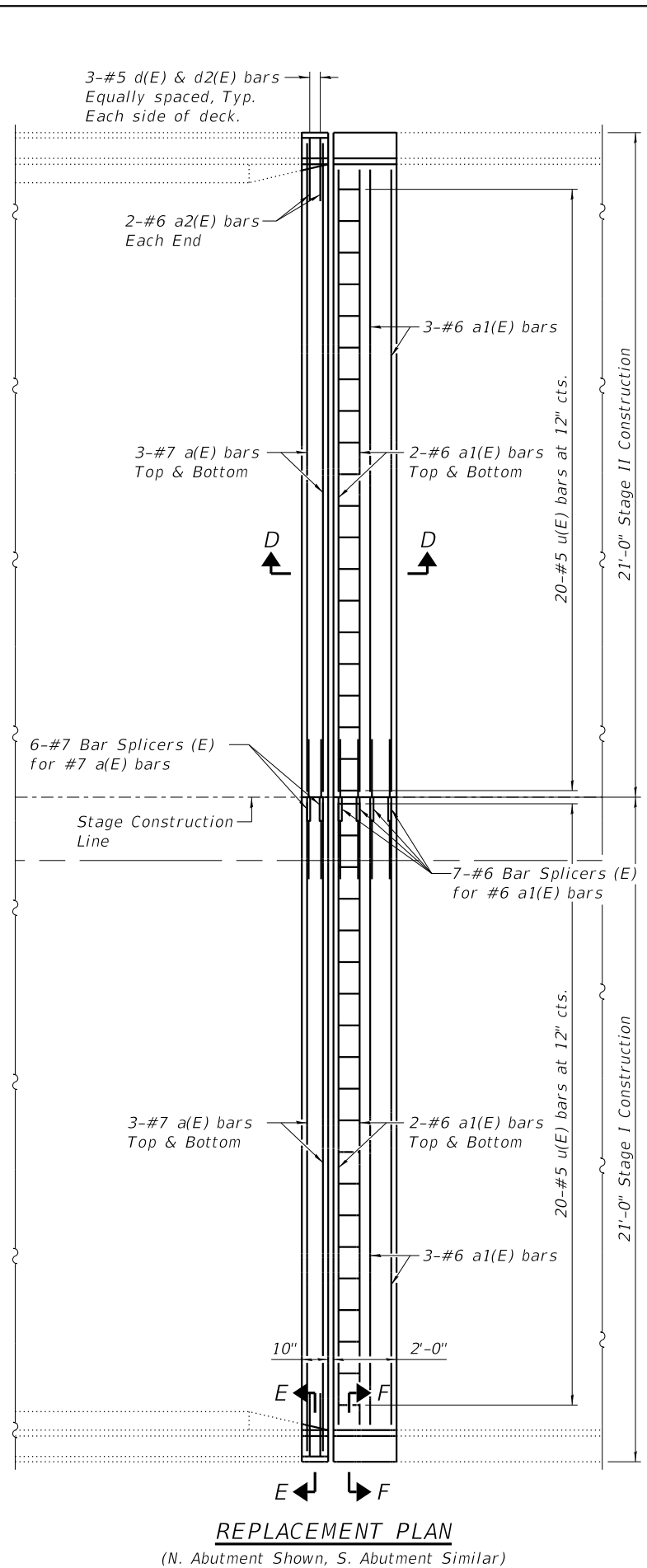
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WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

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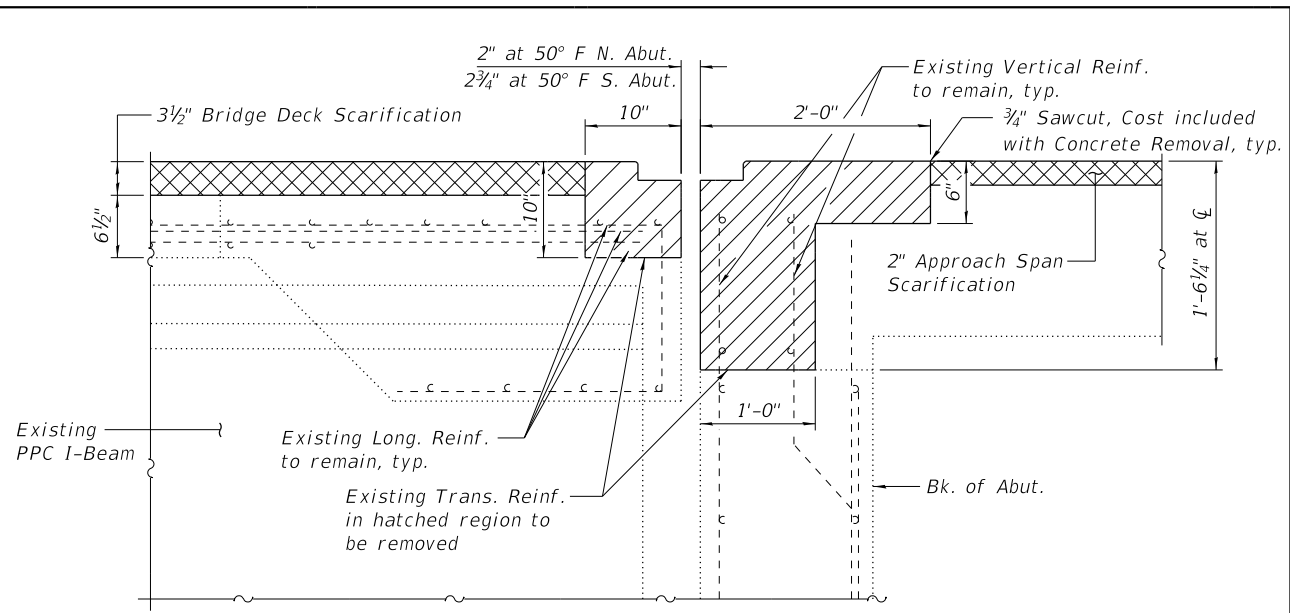
REMOVAL PLAN

(N. Abutment Shown, S. Abutment Similar)

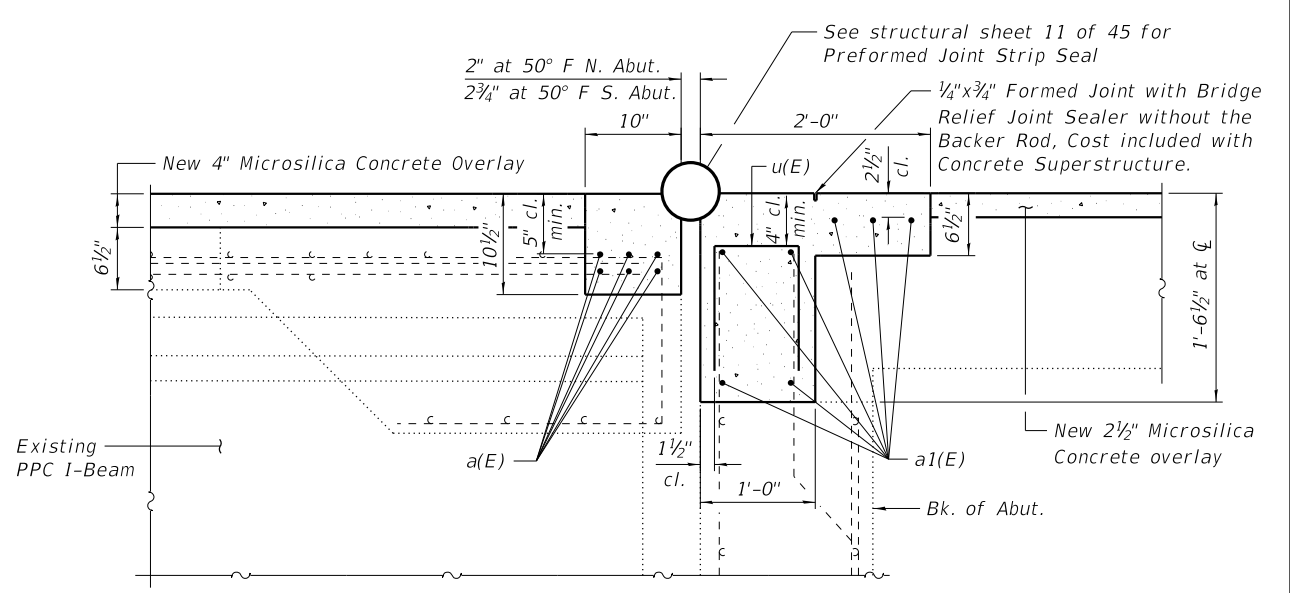


REPLACEMENT PLAN

(N. Abutment Shown, S. Abutment Similar)



SECTION A-A



SECTION D-D

LEGEND:

- Concrete Removal
- Bridge Deck Scarification

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 approved bar splicer or anchorage system. Cost included with Concrete Removal.

All existing reinforcement in parapets and wingwalls to remain in place.

See structural sheet 11 of 45 for Section thru Bridge Parapet, Section thru Approach Parapet, Bill of Material and Reinforcement Bending Diagrams.

For Overlay details, see Cross Section on structural sheet 3 of 45.

See structural sheet 13 of 45 for Bar Splicers.



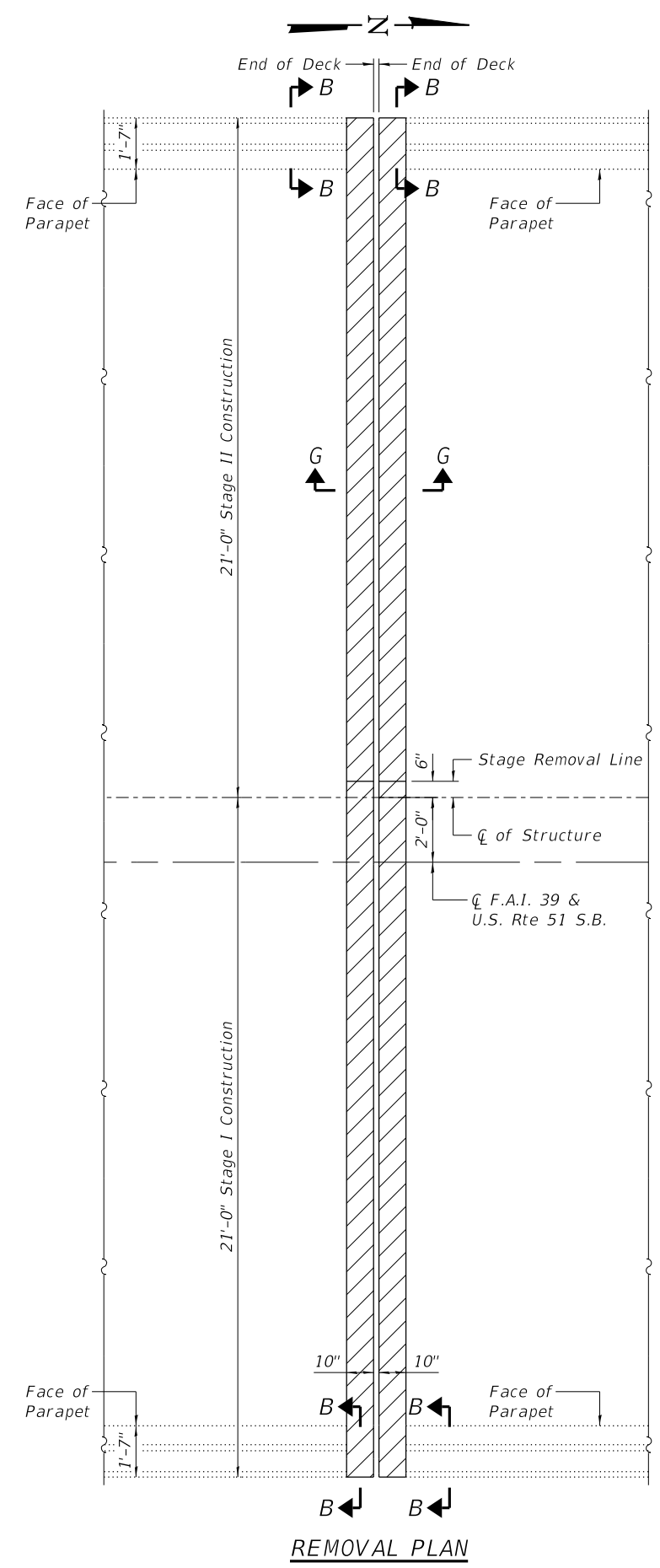
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

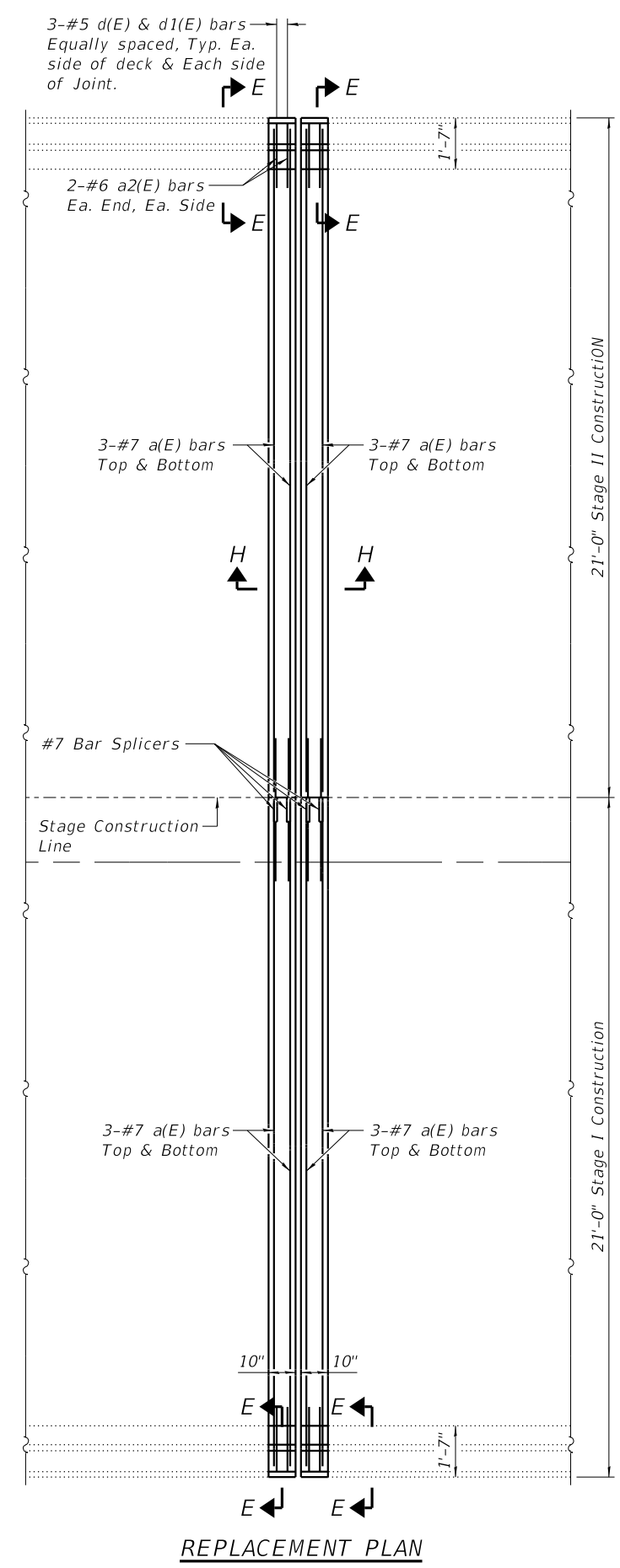
**ABUTMENT JOINT REPLACEMENT DETAILS
 STRUCTURE NO. 071-0052 (SB)**

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WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

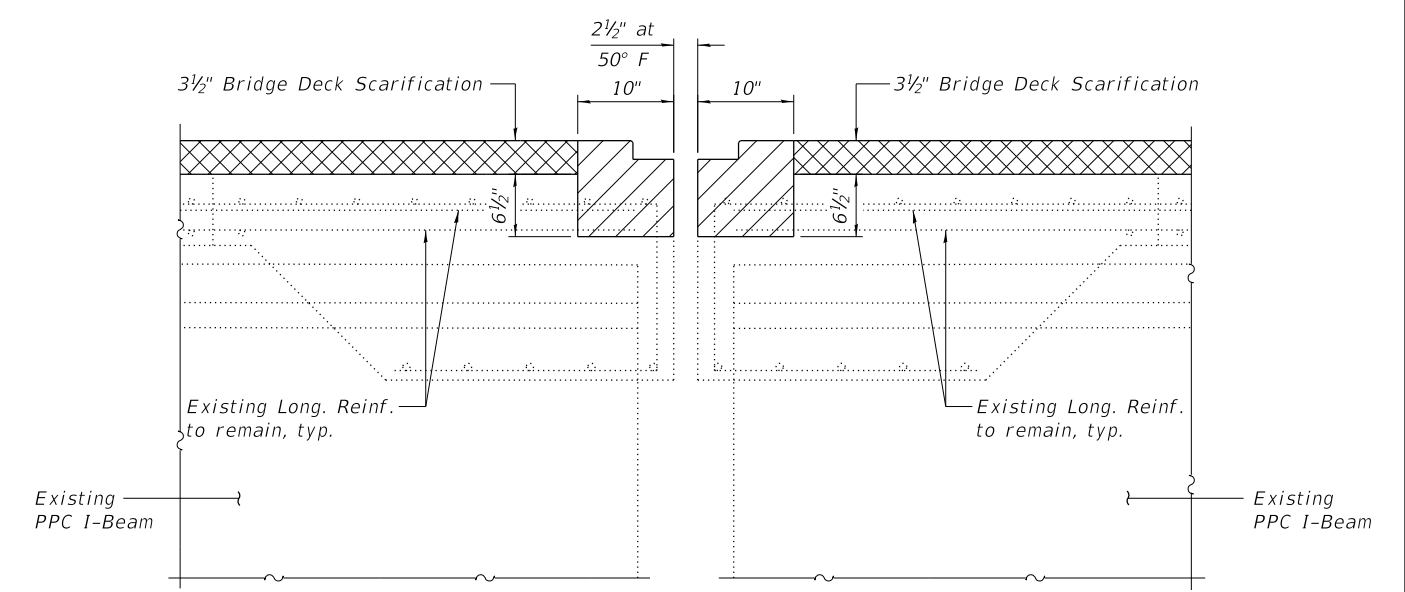
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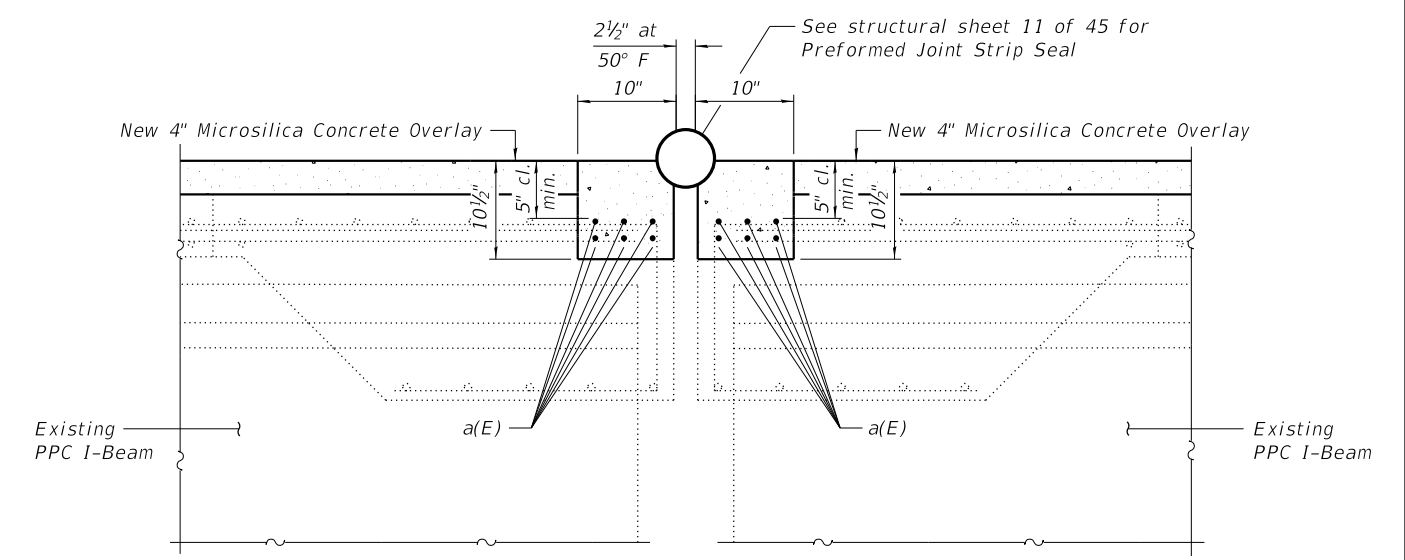
REMOVAL PLAN



REPLACEMENT PLAN



SECTION G-G



SECTION H-H

- LEGEND:**
- Concrete Removal
 - Bridge Deck Scarification

- 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 approved bar splicer or anchorage system. Cost included with Concrete Removal.
- All existing reinforcement in parapets and wingwalls to remain in place.
- See structural sheet 11 of 45 for Section thru Bridge Parapet, Section thru Approach Parapet, Bill of Material and Reinforcement Bending Diagrams.
- For Overlay details, see Cross Section on structural sheet 3 of 45.
- See structural sheet 13 of 45 for Bar Splicers.



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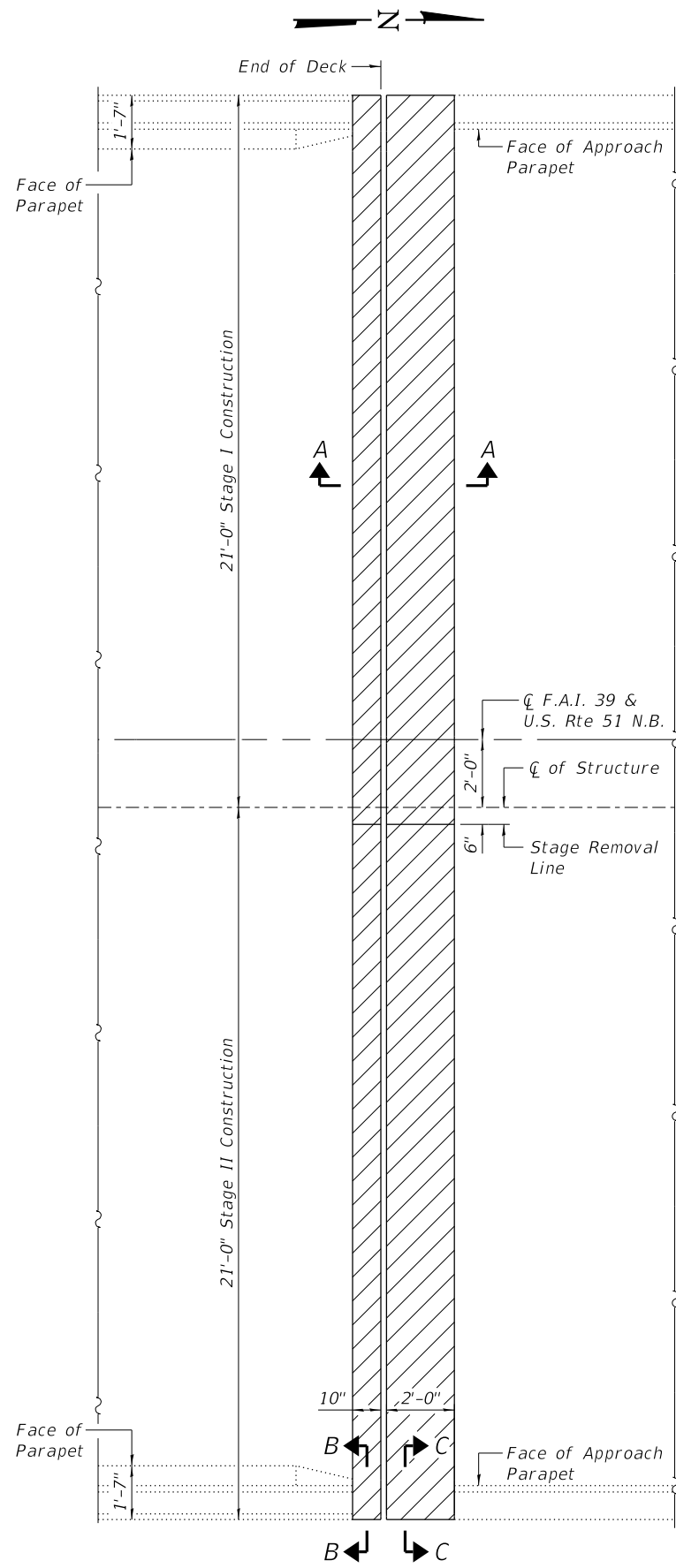
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**JOINT REPLACEMENT DETAILS - PIER 3
 STRUCTURE NO. 071-0052 (SB)**

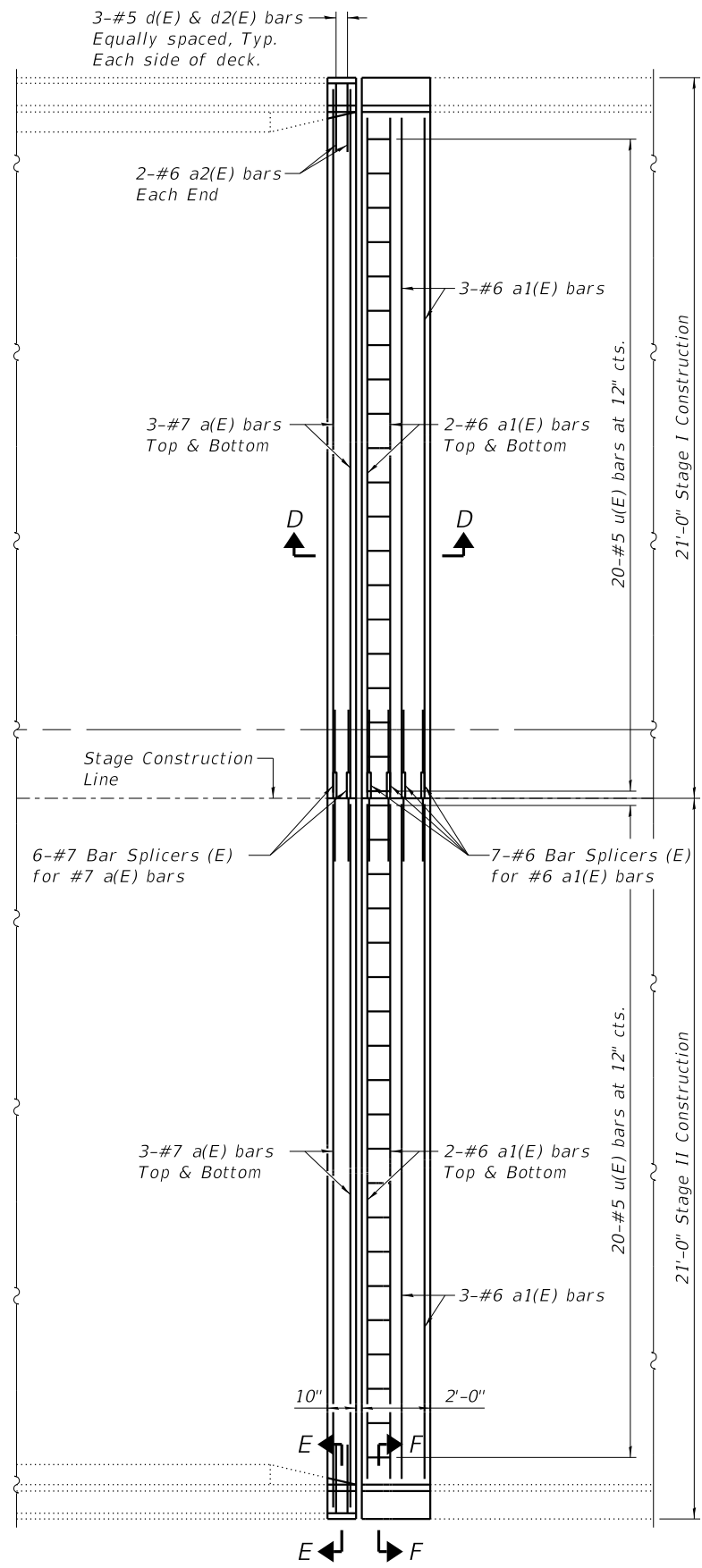
STRUCTURAL SHEET 8 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

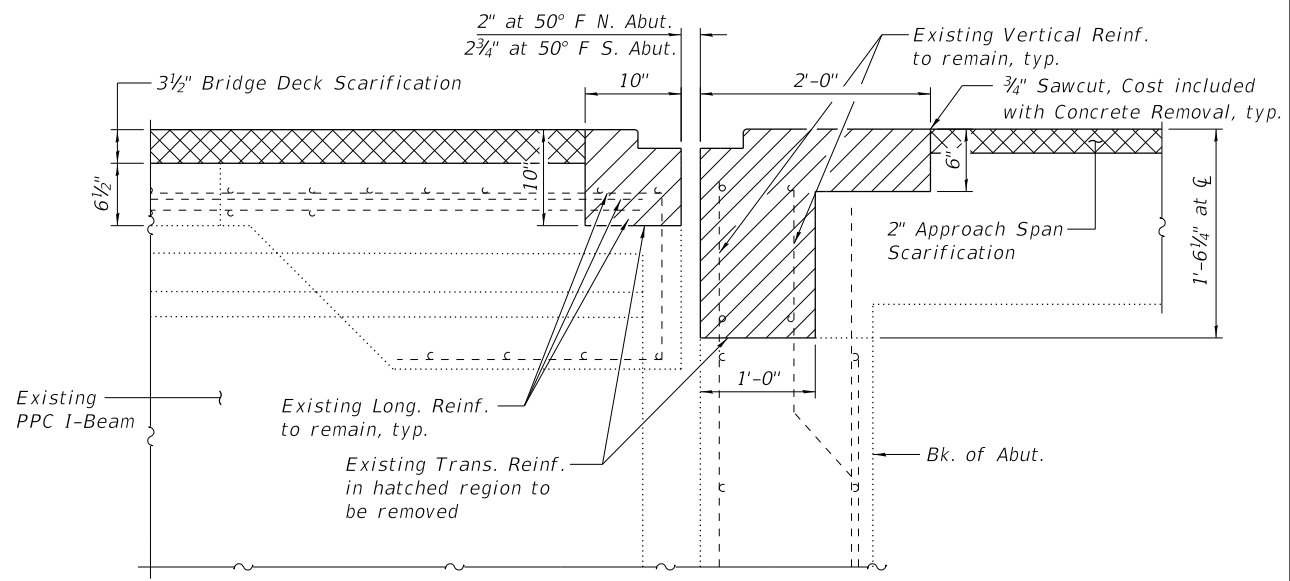
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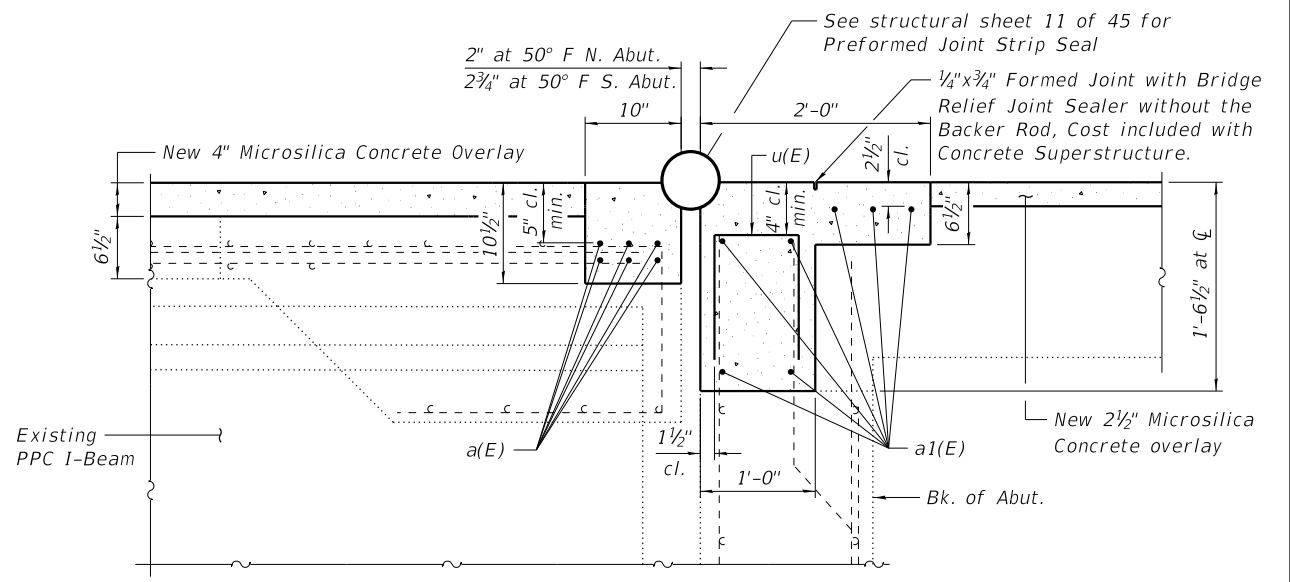
REMOVAL PLAN
 (N. Abutment Shown, S. Abutment Similar)



REPLACEMENT PLAN
 (N. Abutment Shown, S. Abutment Similar)



SECTION A-A



SECTION D-D

LEGEND:

- Concrete Removal
- Bridge Deck Scarification

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 approved bar splicer or anchorage system. Cost included with Concrete Removal.

All existing reinforcement in parapets and wingwalls to remain in place.

See structural sheet 11 of 45 for Section thru Bridge Parapet, Section thru Approach Parapet, Bill of Material and Reinforcement Bending Diagrams.

For Overlay details, see Cross Section on structural sheet 3 of 45.

See structural sheet 13 of 45 for Bar Splicers.



USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

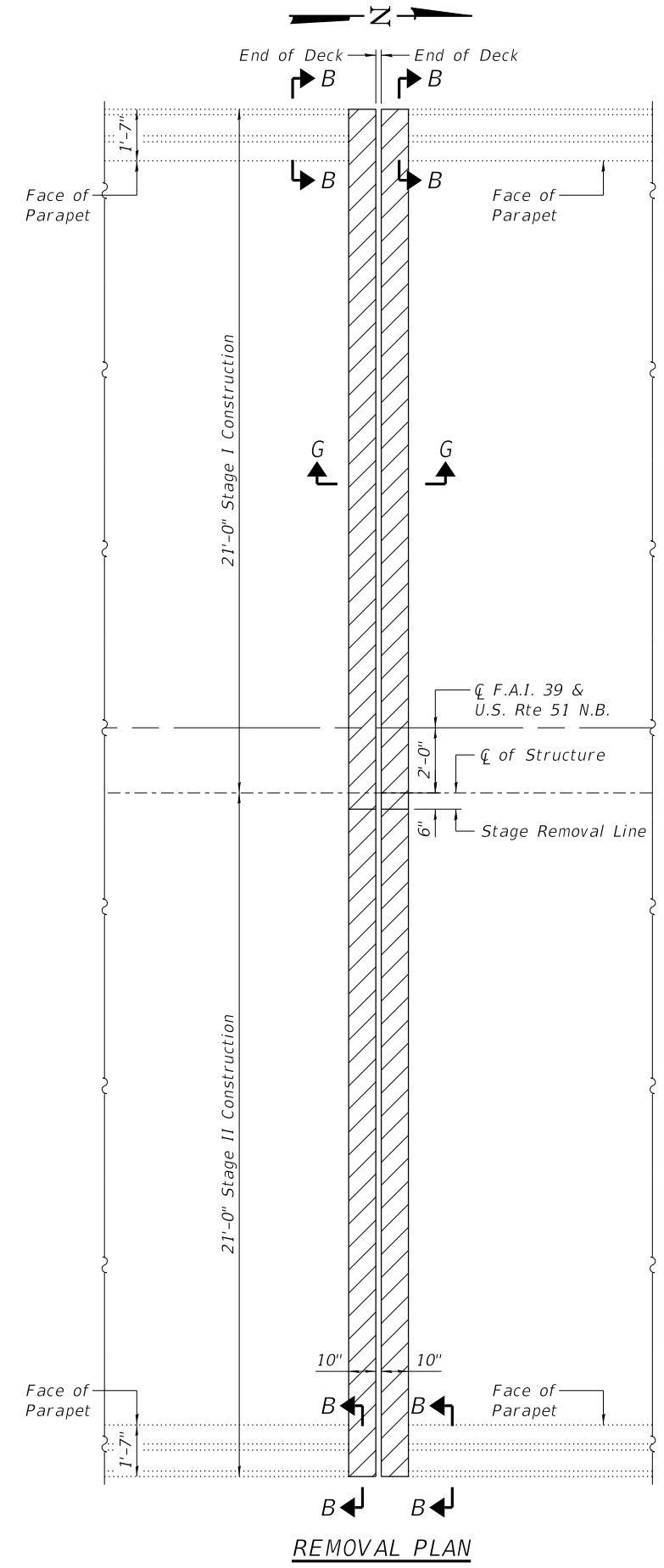
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ABUTMENT JOINT REPLACEMENT DETAILS
 STRUCTURE NO. 071-0053 (NB)**

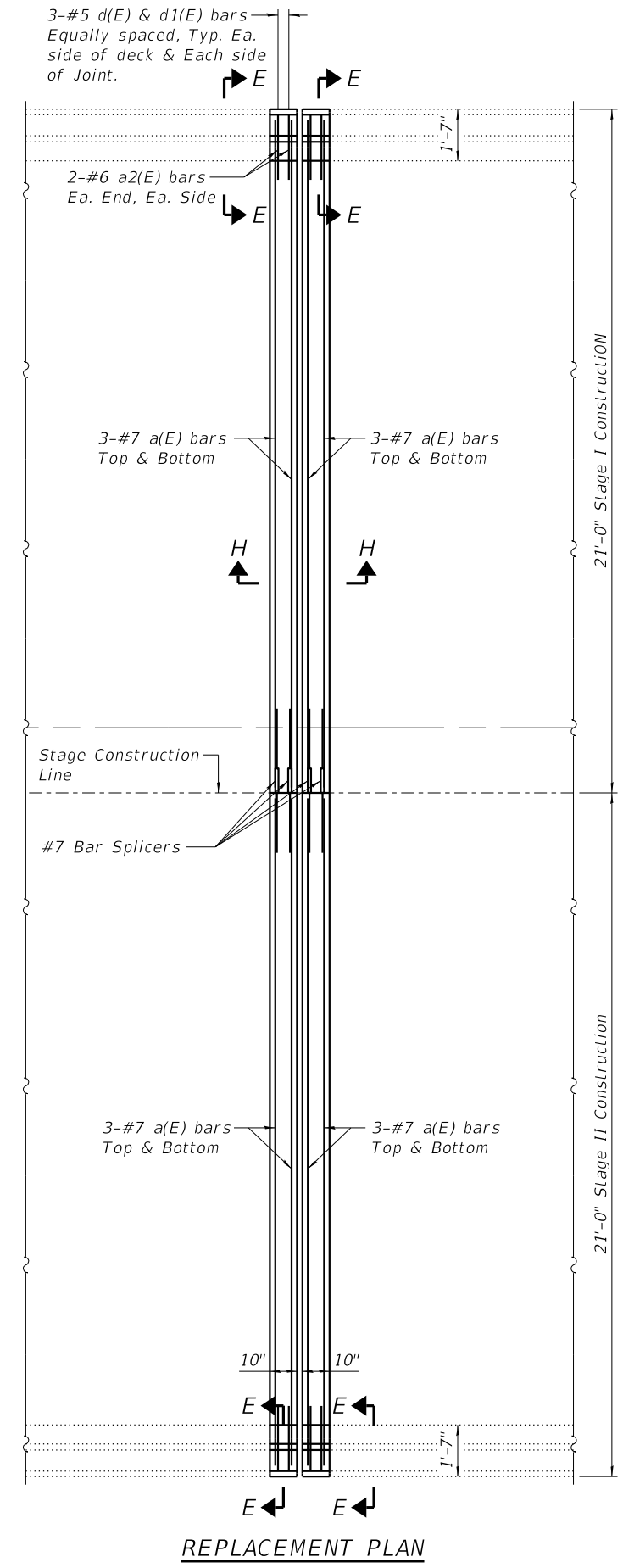
STRUCTURAL SHEET 9 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

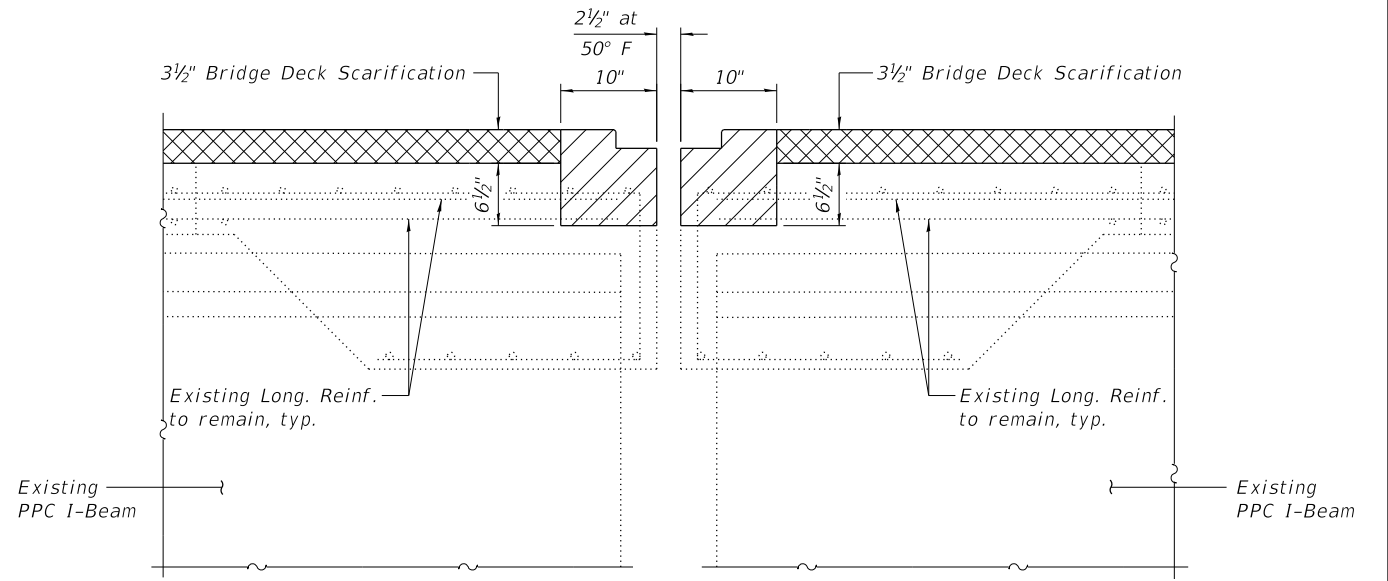
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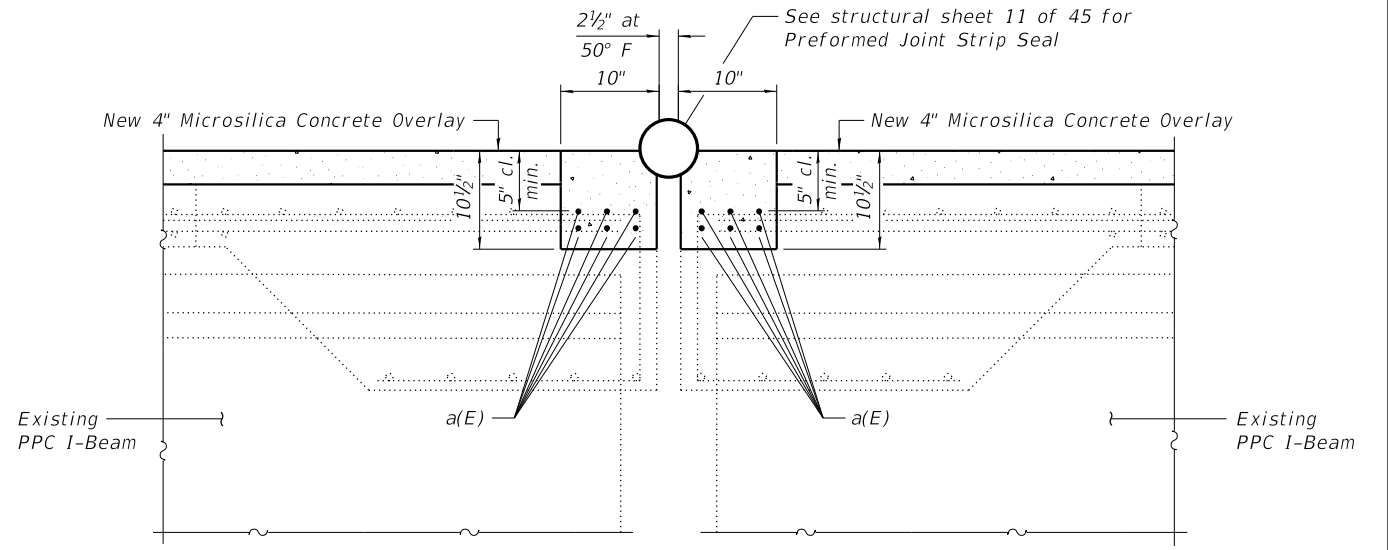
REMOVAL PLAN



REPLACEMENT PLAN



SECTION G-G



SECTION H-H

- LEGEND:**
- Concrete Removal
 - Bridge Deck Scarification

- 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 approved bar splicer or anchorage system. Cost included with Concrete Removal.
- All existing reinforcement in parapets and wingwalls to remain in place.
- See structural sheet 11 of 45 for Section thru Bridge Parapet, Section thru Approach Parapet, Bill of Material and Reinforcement Bending Diagrams.
- For Overlay details, see Cross Section on structural sheet 3 of 45.
- See structural sheet 13 of 45 for Bar Splicers.

WILLETT HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

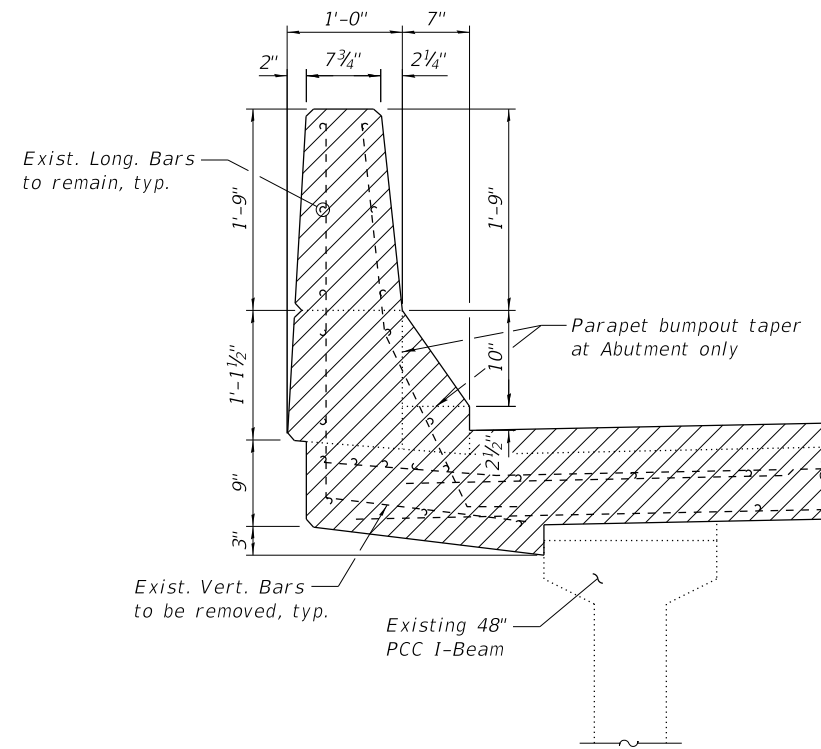
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

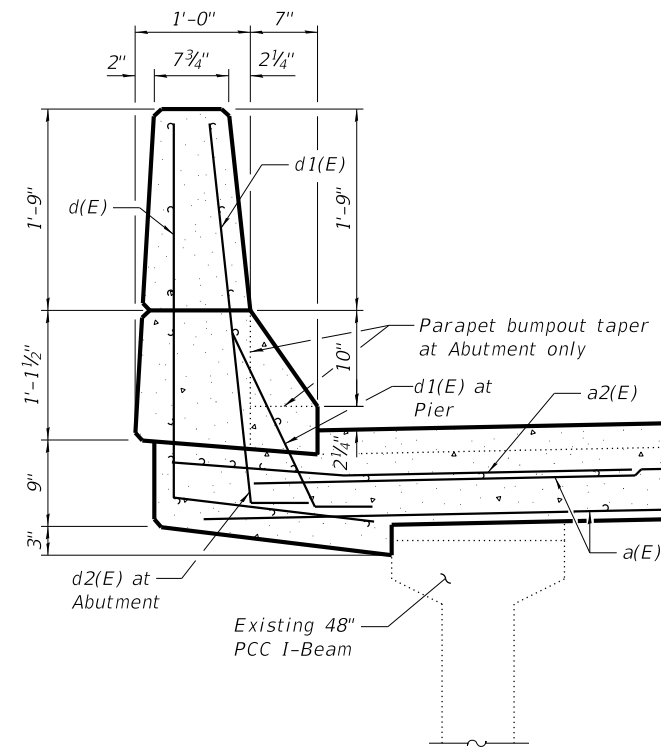
**JOINT REPLACEMENT DETAILS - PIER 3
 STRUCTURE NO. 071-0053 (NB)**

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

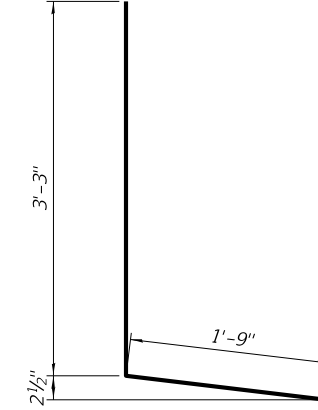
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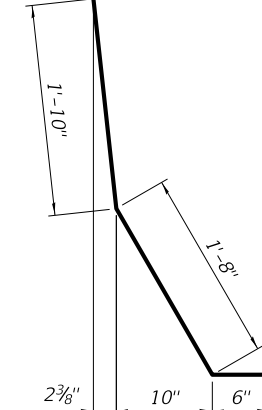
SECTION B-B



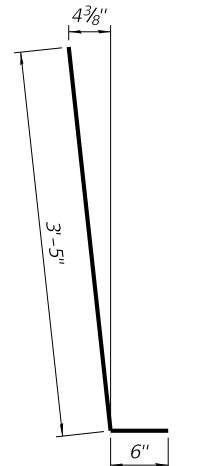
SECTION E-E



d(E) BAR



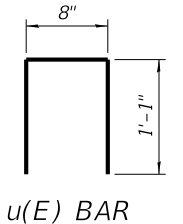
d1(E) BAR



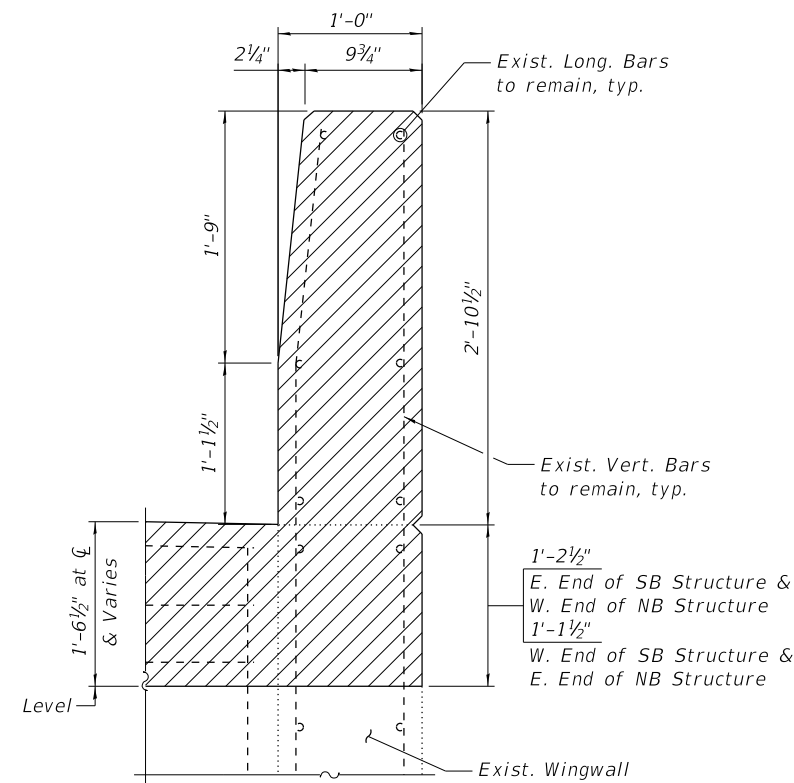
d2(E) BAR

LEGEND:

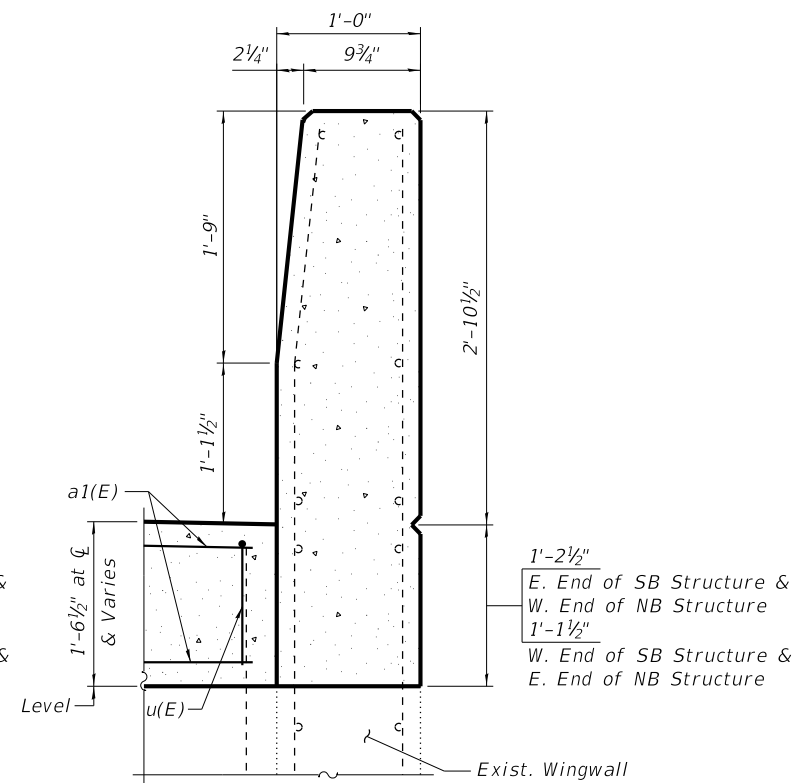
Concrete Removal



u(E) BAR



SECTION C-C



SECTION F-F

BILL OF MATERIAL - S.B. STRUCTURE

Bar	No.	Size	Length	Shape
a(E)	48	#7	20'-6"	—
a1(E)	28	#6	19'-8"	—
a2(E)	16	#6	5'-0"	—
d(E)	24	#5	5'-0"	L
d1(E)	12	#5	4'-0"	L
d2(E)	12	#5	3'-11"	L
u(E)	80	#5	2'-10"	U
Concrete Removal			Cu. Yds.	11.4
Concrete Superstructure			Cu. Yds.	11.9
Reinforcement Bars, Epoxy Coated			Pound	3,420
Bar Splicers			Each	38

BILL OF MATERIAL - N.B. STRUCTURE

Bar	No.	Size	Length	Shape
a(E)	48	#7	20'-6"	—
a1(E)	28	#6	19'-8"	—
a2(E)	16	#6	5'-0"	—
d(E)	24	#5	5'-0"	L
d1(E)	12	#5	4'-0"	L
d2(E)	12	#5	3'-11"	L
u(E)	80	#5	2'-10"	U
Concrete Removal			Cu. Yds.	11.4
Concrete Superstructure			Cu. Yds.	11.9
Reinforcement Bars, Epoxy Coated			Pound	3,420
Bar Splicers			Each	38



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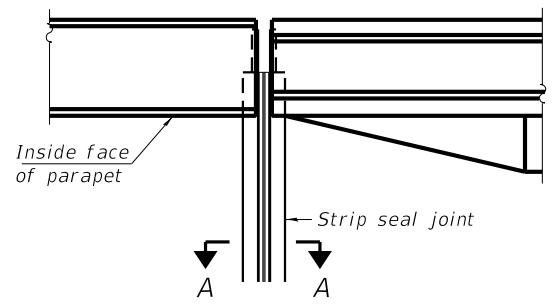
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STATE OF ILLINOIS
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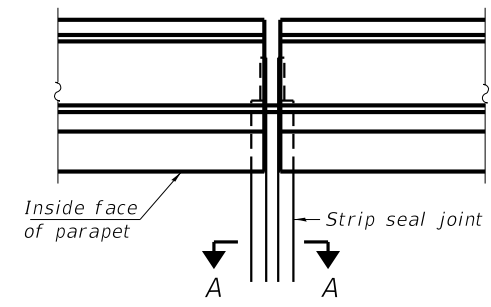
JOINT REPLACEMENT AND REPAIR DETAIL
 STRUCTURE NO. 071-0052 (SB) & 071-0053 (NB)

STRUCTURAL SHEET 11 OF 45 SHEETS

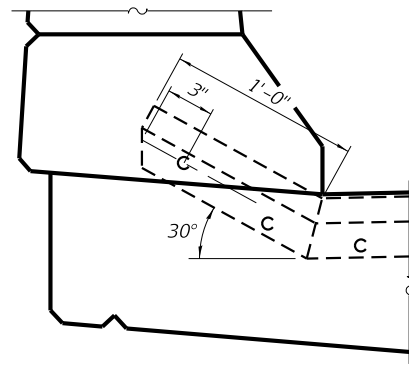
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WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				



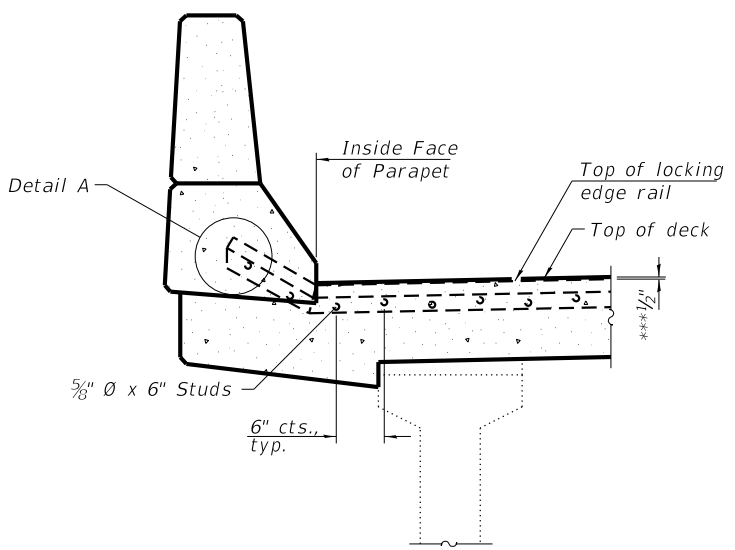
PLAN AT PARAPET
(At Abutments)



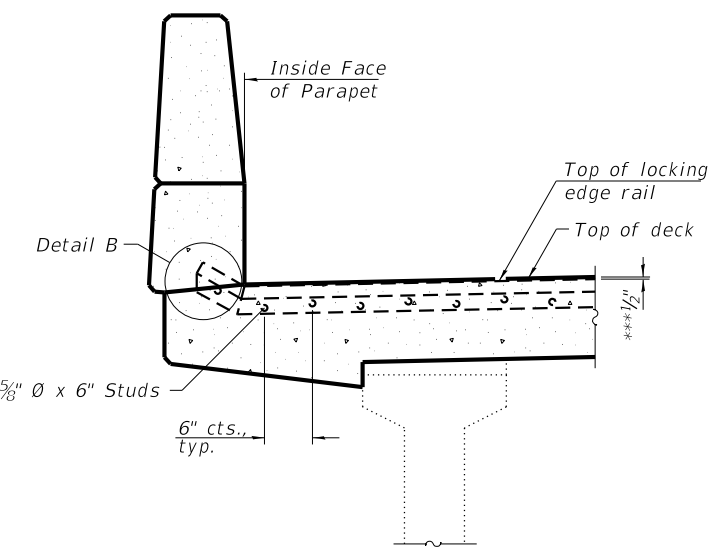
PLAN AT PARAPET
(At Pier)



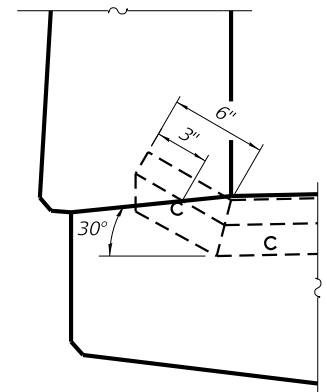
DETAIL A



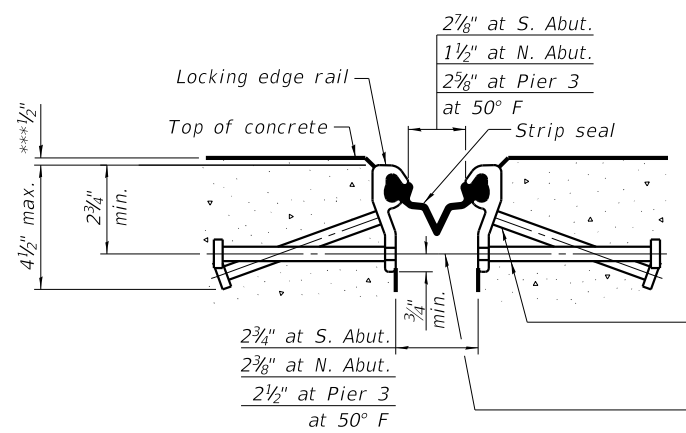
SECTION AT PARAPET - PIER
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



SECTION AT PARAPET - ABUTMENTS
(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)



DETAIL B



SHOWING ROLLED RAIL JOINT

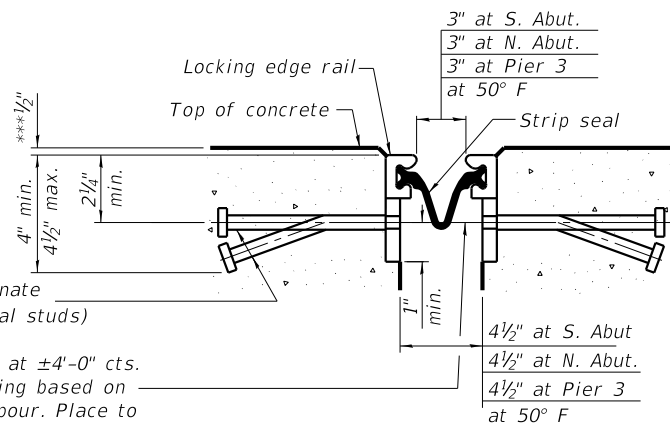
***Prior to 1/4" grinding

* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

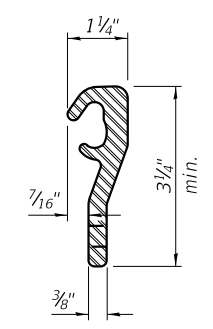
3/8" φ threaded rods in 7/16" φ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

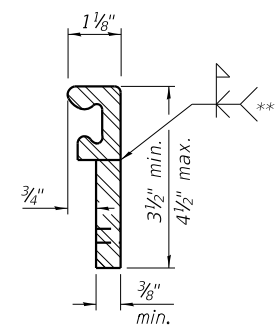
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



SHOWING WELDED RAIL JOINT



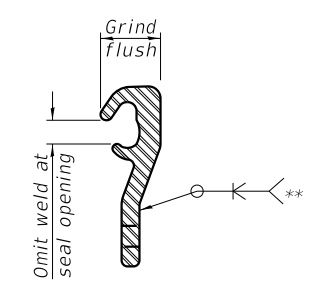
ROLLED (EXTRUDED) RAIL



WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	S.B.	N.B.
Preformed Joint Strip Seal	Foot	123	123

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.
The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.
The manufacturer's recommended installation methods shall be followed.
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.
Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.
39" constant slope barrier shown, 44" constant slope barrier similar as noted.
The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

MODEL: Default FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCTURE\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB-0053_NB Preformed Joint Strip Seal Details.dgn 9/17/2020 11:52:45 AM

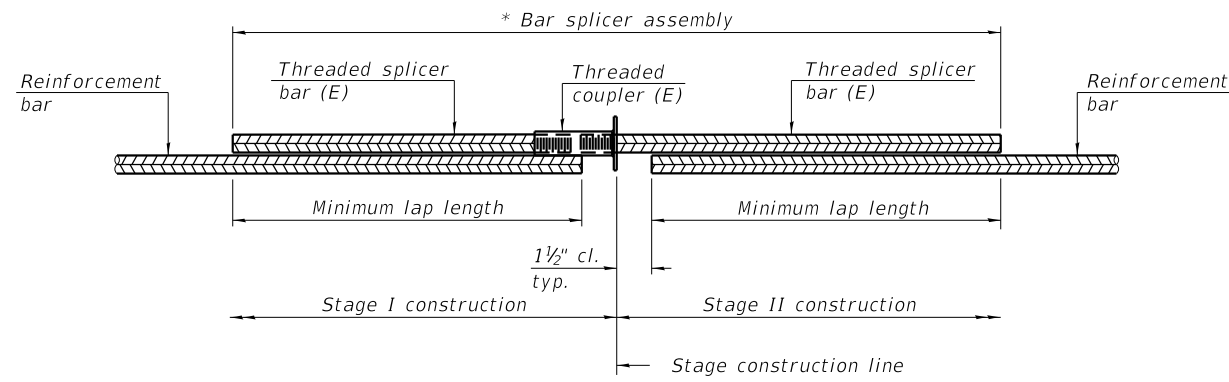
WILLETT HOFMANN & ASSOCIATES INC.
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809 EAST 2ND STREET, DIXON, IL 61021-0367
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PLOT SCALE =	CHECKED - BKC	REVISED -
PLOT DATE =	DRAWN - FDL	REVISED -
	CHECKED - BKC	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MODIFIED PREFORMED JOINT STRIP SEAL STRUCTURE NO. 071-0052 (SB) & 071-0053 (NB)

F.A.I. RTE. 39	SECTION (141-2B-VB)BDR	COUNTY OGLE	TOTAL SHEETS 64	SHEET NO. 24
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

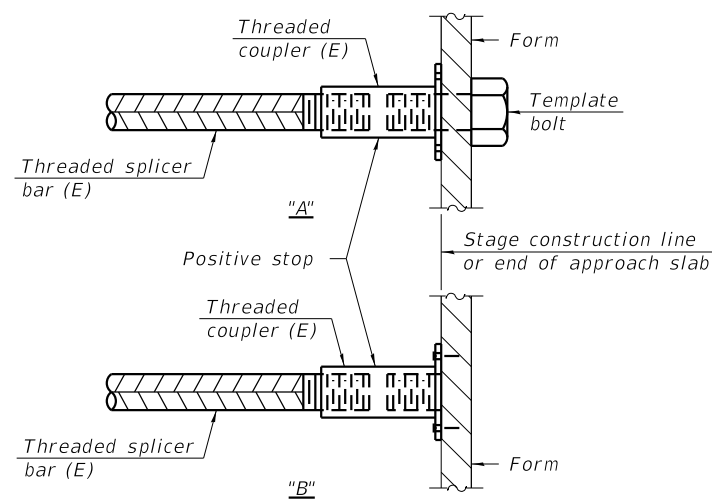


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

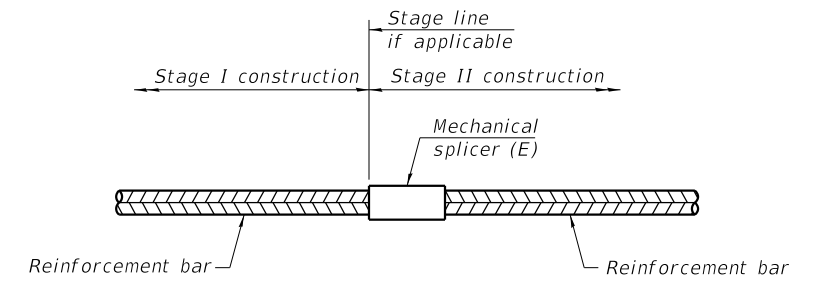
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
N. Abutment	#7	6	5'-2"
(S.B. Structure)	#6	7	4'-5"
S. Abutment	#7	6	5'-2"
(S.B. Structure)	#6	7	4'-5"
Pier #3	#7	12	5'-2"
(S.B. Structure)			
N. Abutment	#7	6	5'-2"
(N.B. Structure)	#6	7	4'-5"
S. Abutment	#7	6	5'-2"
(N.B. Structure)	#6	7	4'-5"
Pier #3	#7	12	5'-2"
(N.B. Structure)			



INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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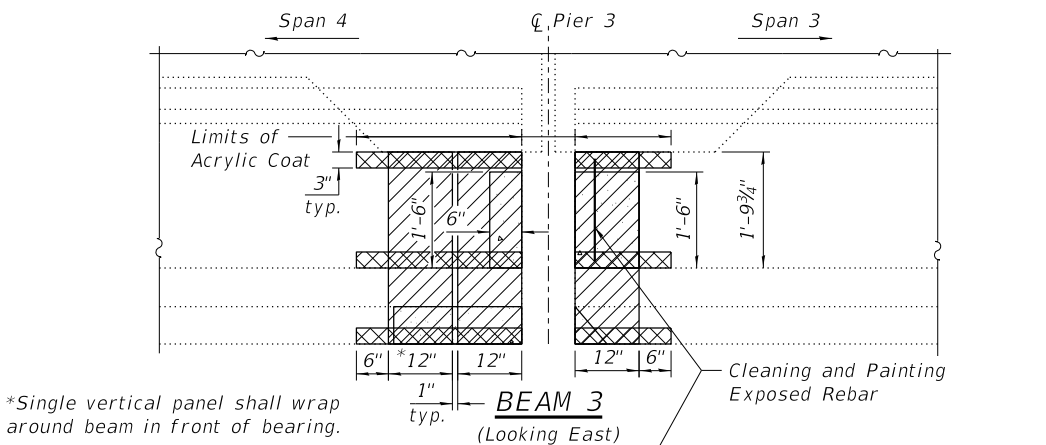
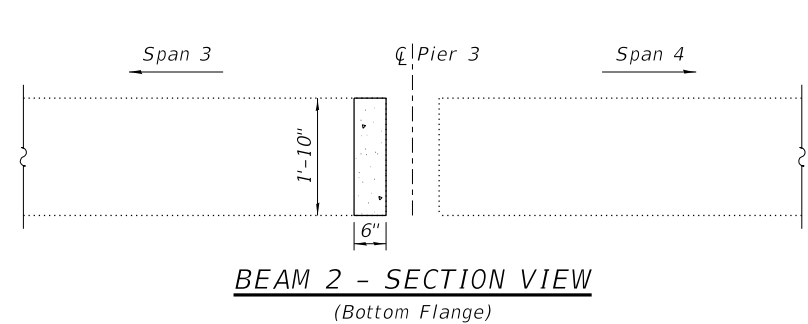
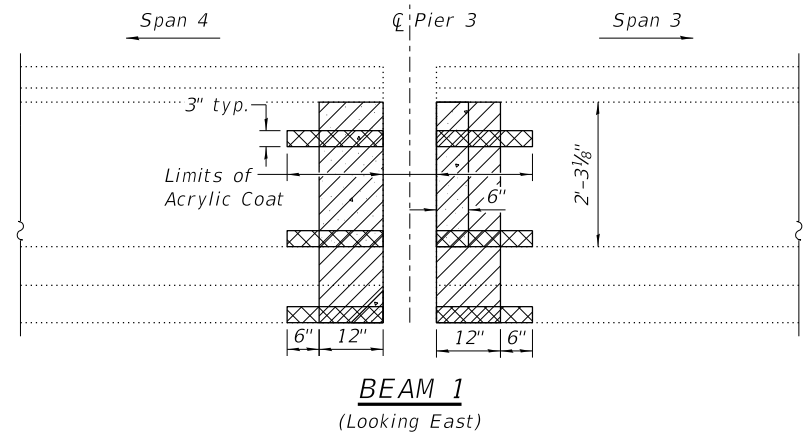
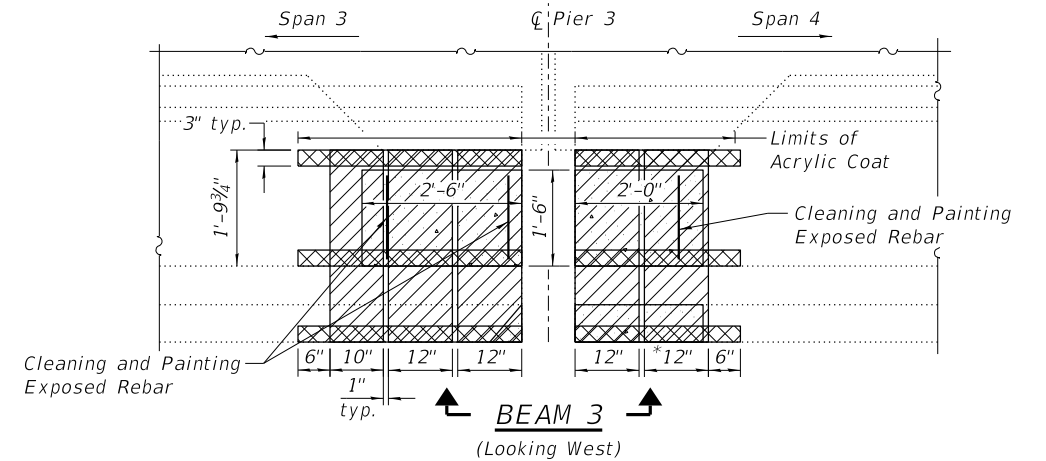
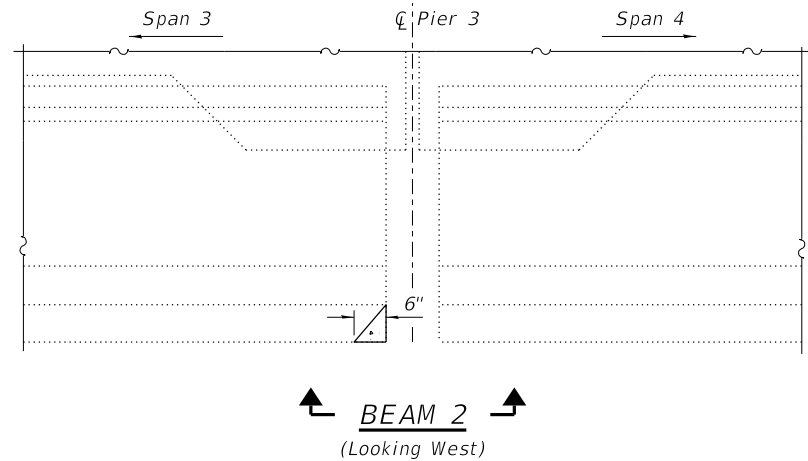
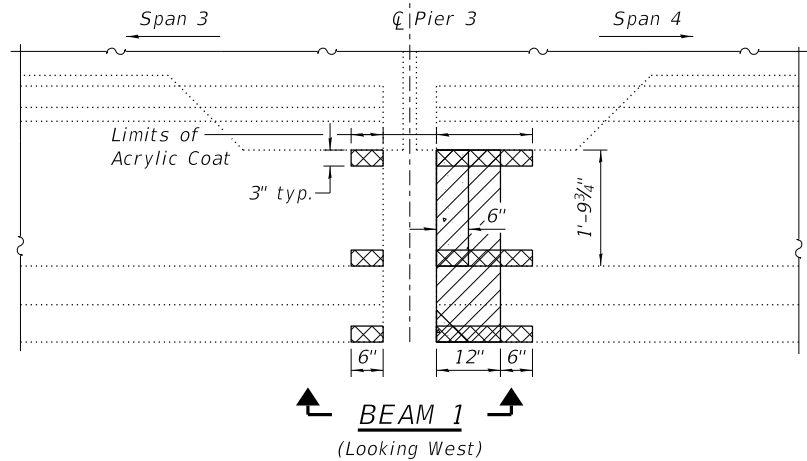
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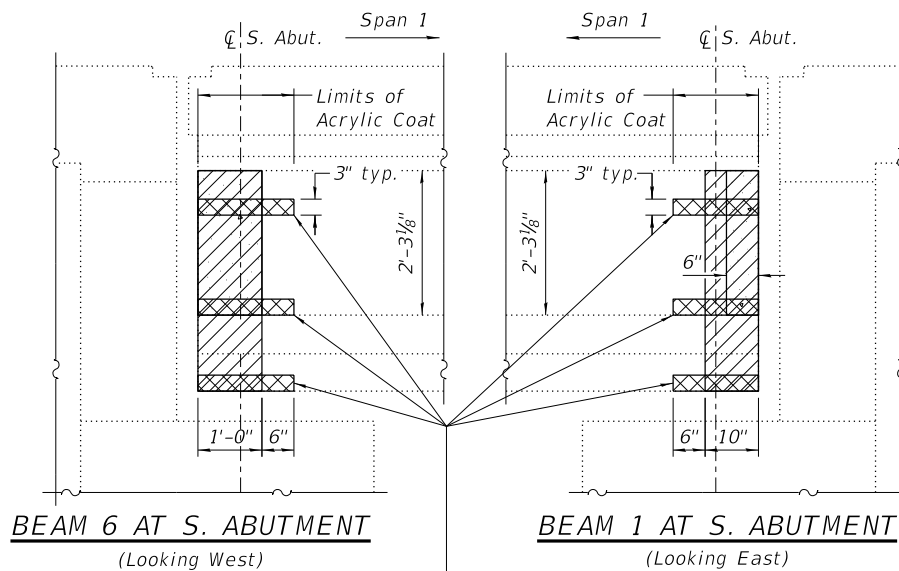
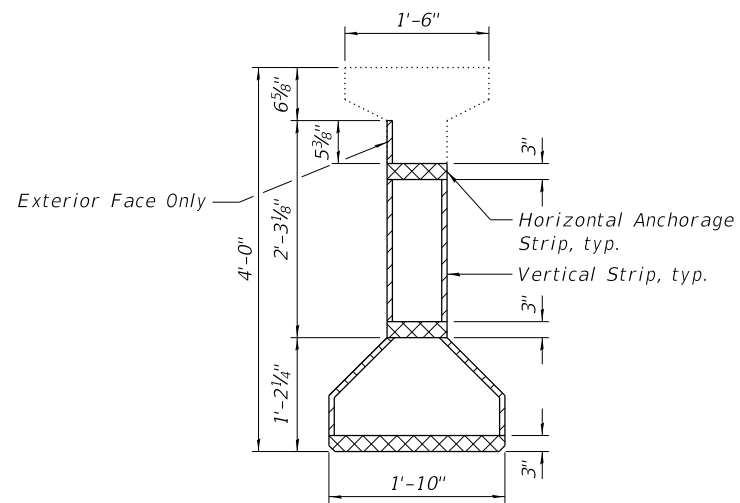
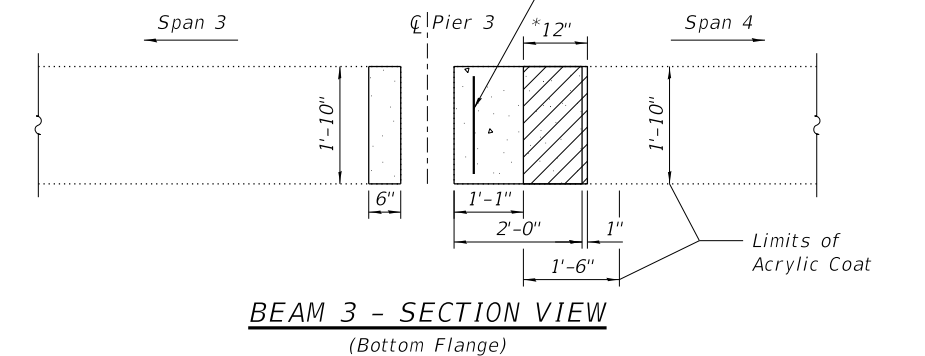
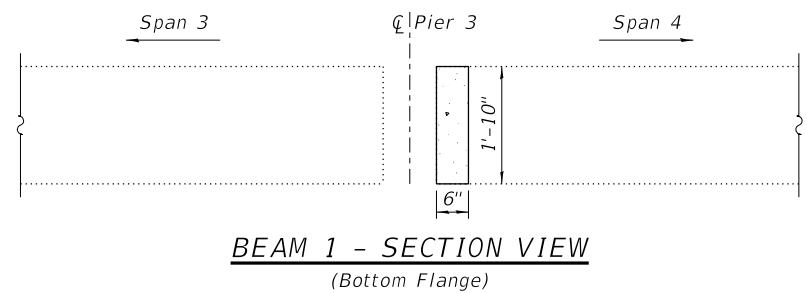
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 071-0052 (SB) & 071-0053 (NB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	25
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Southbound Structure
FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCTURE\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB Beam Deterioration.dgn



*Single vertical panel shall wrap around beam in front of bearing.



Horizontal Anchorage Strips shall wrap around web and have 6" of length on the inside of the beam (not shown).

LEGEND

- Fiber Wrap
- I-Beam Repair
- Fiber Wrap (Horizontal Strips)

NOTE:

See structural sheet 15 of 45 for Notes and Structure Quantity.

See structural sheet 3 of 45 for Beam Numbers.

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PLOT SCALE =	CHECKED - BKC	REVISED -
PLOT DATE =	DRAWN - FDL	REVISED -
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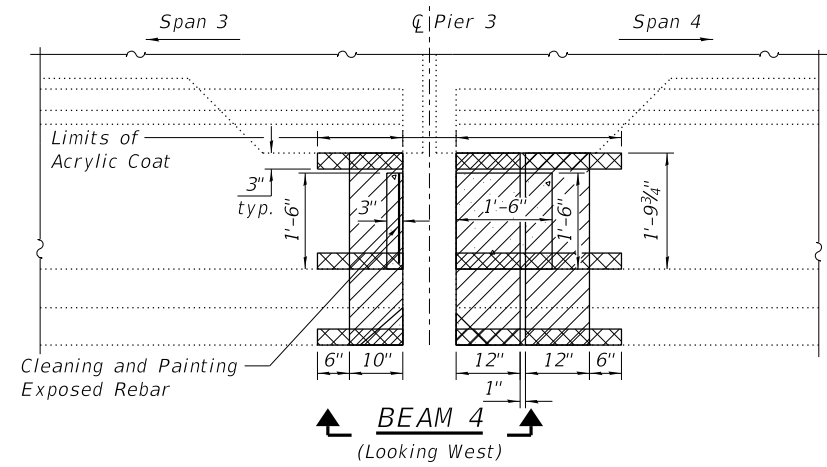
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BEAM REPAIR DETAILS
STRUCTURE NO. 071-0052 (SB)**

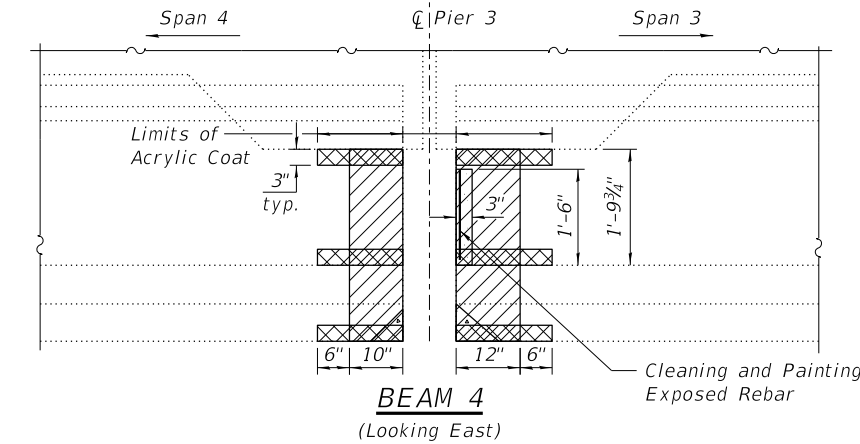
STRUCTURAL SHEET 14 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

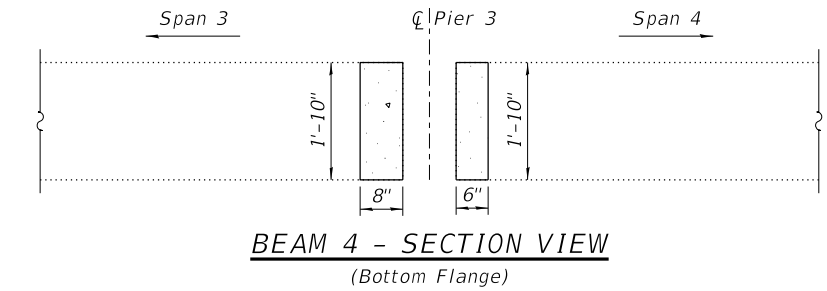
MODEL: Southbound Structure
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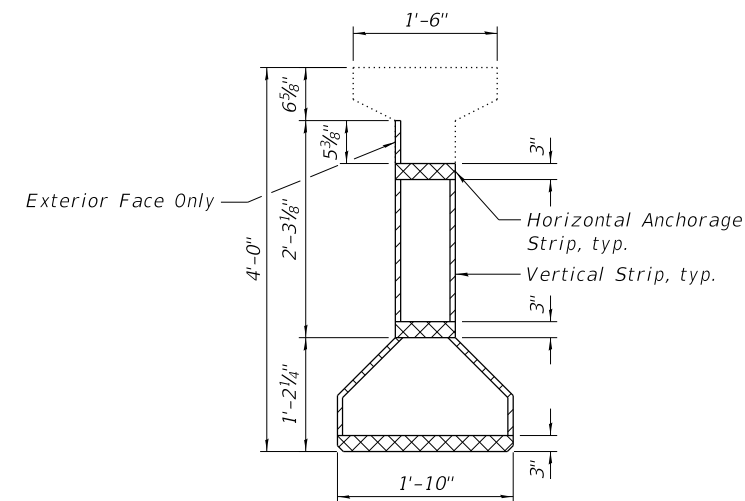
BEAM 4
(Looking West)



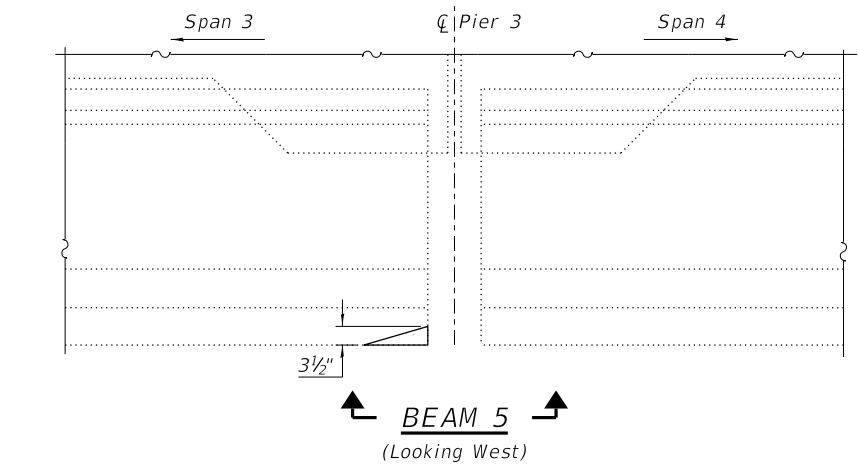
BEAM 4
(Looking East)



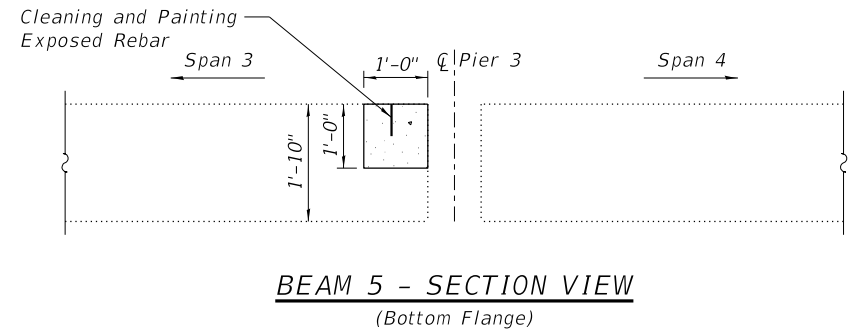
BEAM 4 - SECTION VIEW
(Bottom Flange)



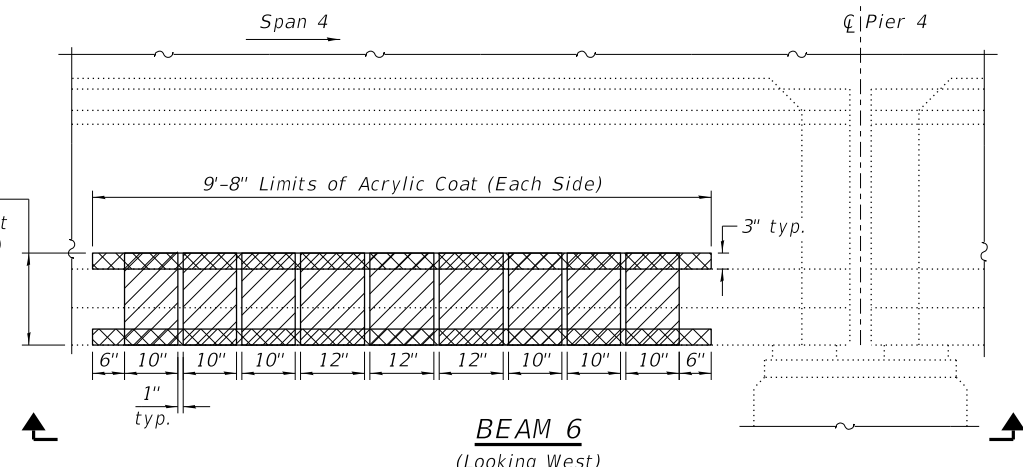
TYPICAL BEAM END CROSS SECTION



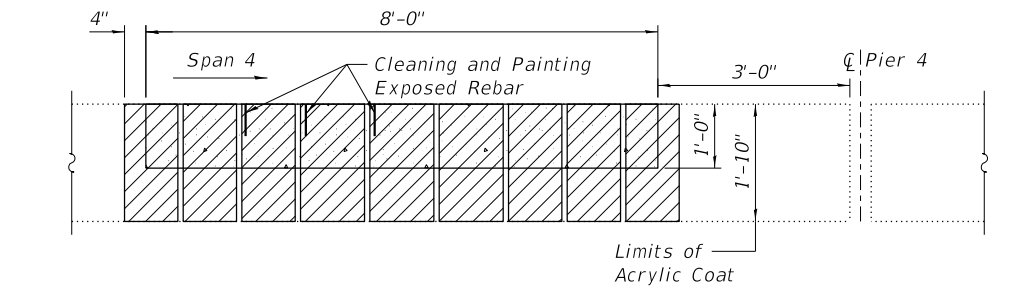
BEAM 5
(Looking West)



BEAM 5 - SECTION VIEW
(Bottom Flange)



BEAM 6
(Looking West)



BEAM 6 - SECTION VIEW
(Bottom Flange - Pier Cap not shown for clarity)

BILL OF MATERIAL

Item	Unit	Total
Fiber Wrap	Sq. Ft.	136.8
Acrylic Coating	Sq. Yd.	15.5
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	37.3
Cleaning and Painting Exposed Rebar	L. Sum	0.5

NOTES:

Acrylic coating shall be placed over fiber wrap repairs.
 See Special Provisions for "Fiber Wrap for PCC I-Beam Repairs."
 See Special Provisions for "Precast Prestressed Concrete I-Beam Repairs."
 Vertical panels must be between 10" and 12". Vertical panels shall extend beyond the repair zone by a minimum of 3". Vertical panels located above the bearing location shall be placed in two pieces.
 Horizontal anchorage strips shall be 3" wide and extend a minimum of 6" beyond the vertical panels or horizontal panels.
 The horizontal strips shall be placed on top of the vertical panels.
 See structural sheet 3 of 45 for Beam Numbers.

LEGEND

- Fiber Wrap
- I-Beam Repair
- Fiber Wrap (Horizontal Strips)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM REPAIR DETAILS
STRUCTURE NO. 071-0052 (SB)

STRUCTURAL SHEET 15 OF 45 SHEETS

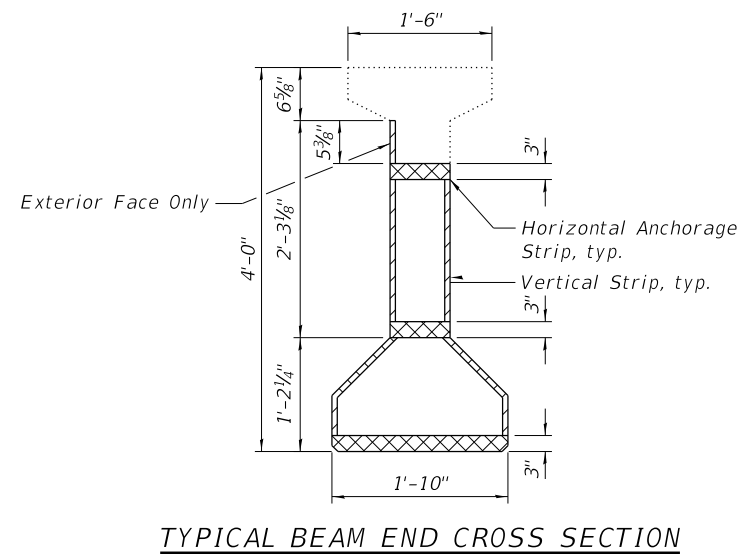
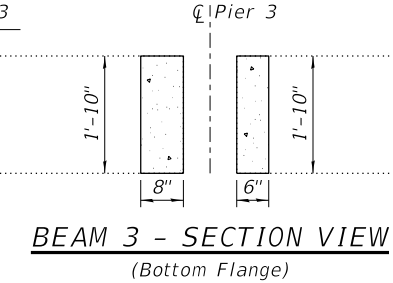
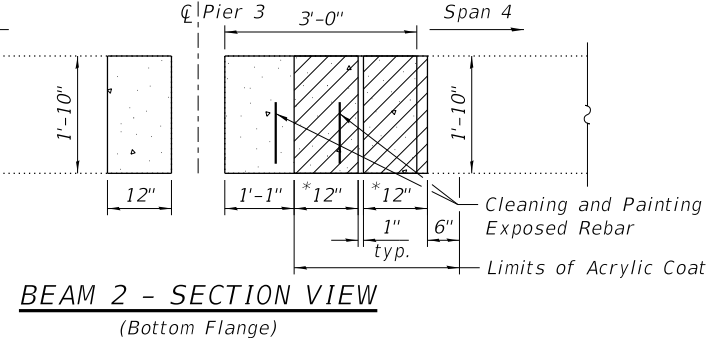
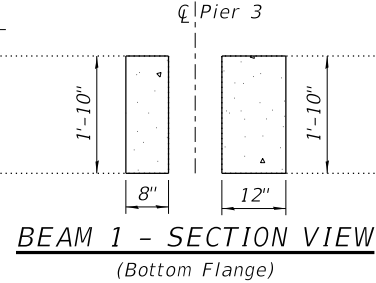
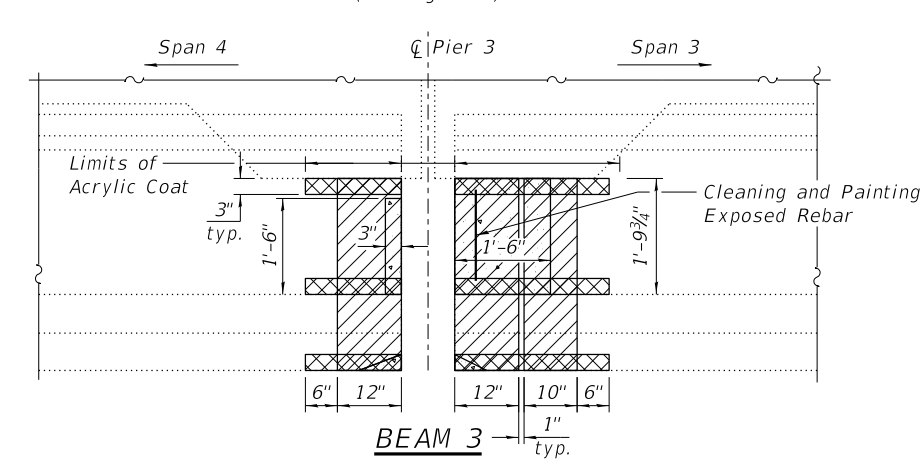
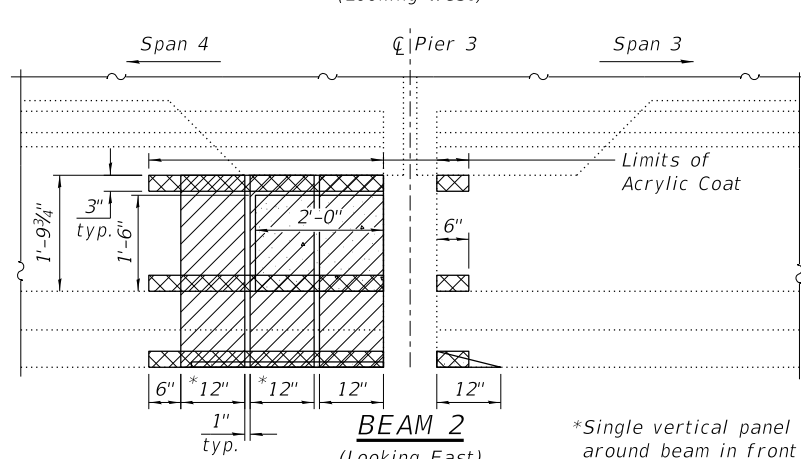
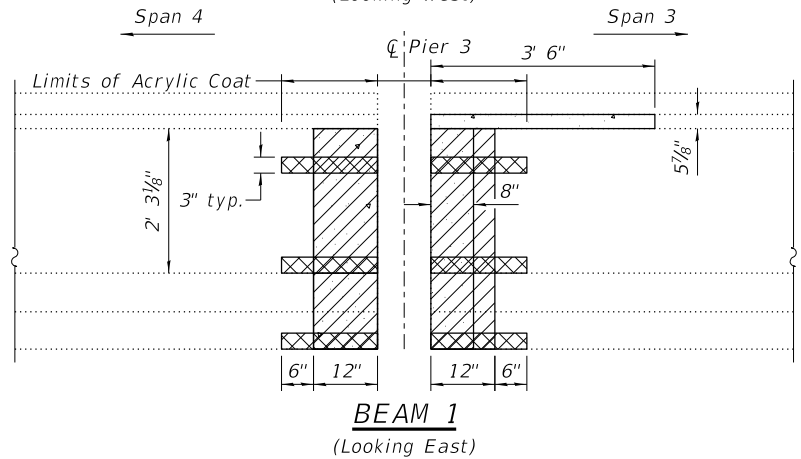
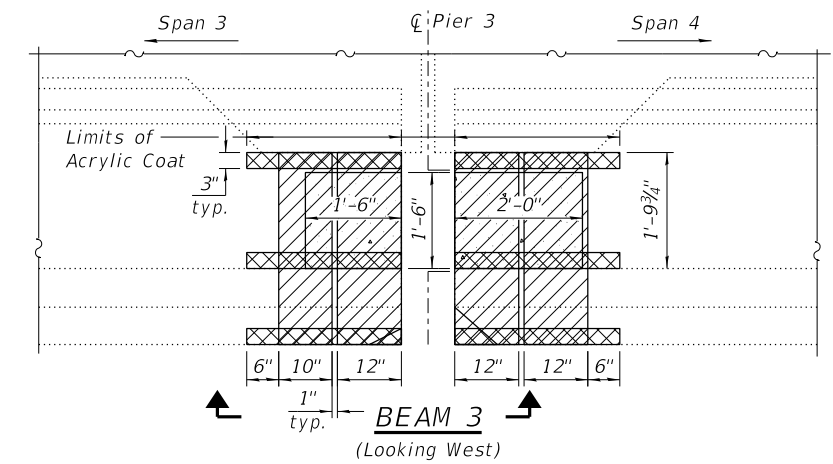
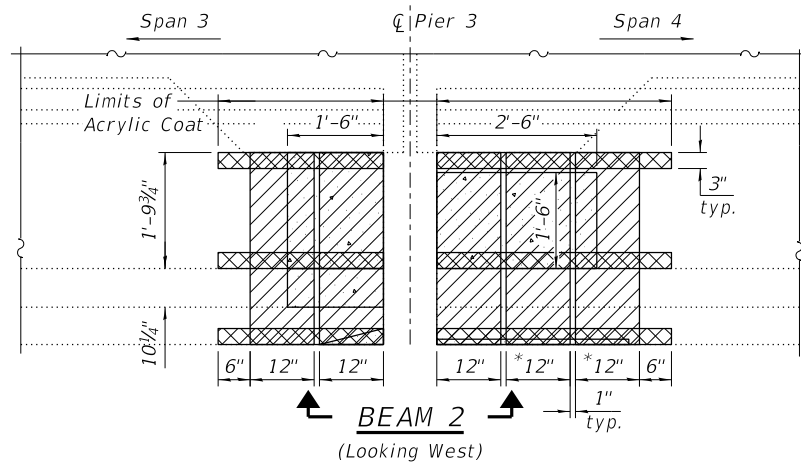
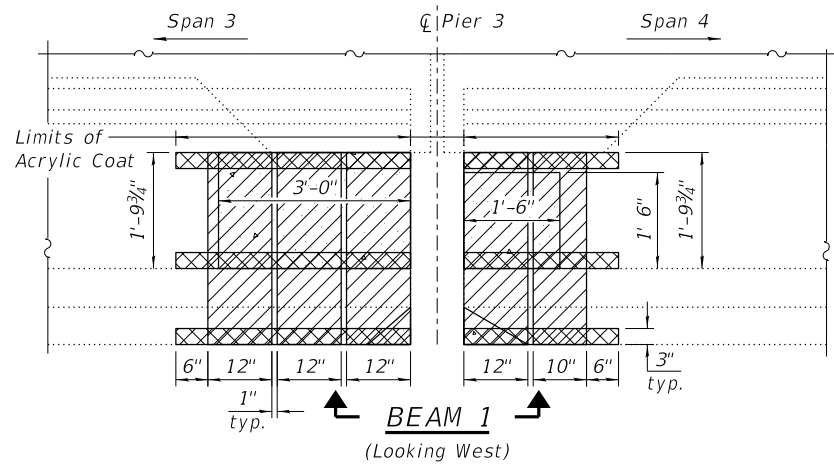
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	27
WHA# 1427D18		CONTRACT NO. 64P04		

ILLINOIS FED. AID PROJECT

WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

USER NAME =	DESIGNED - EEL	REVISED -
PLOT SCALE =	CHECKED - BKC	REVISED -
PLOT DATE =	DRAWN - FDL	REVISED -
	CHECKED - BKC	REVISED -

MODEL: Northbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0053_NB Beam Deterioration.dgn
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LEGEND

- Fiber Wrap
- I-Beam Repair
- Fiber Wrap (Horizontal Strips)

NOTE:

See structural sheet 17 of 45 for Notes and Structure Quantity.

See structural sheet 3 of 45 for Beam Numbers.

WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
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 T: 815-284-3381 DESIGN FIRM: #184-000918

USER NAME =	DESIGNED - EEL	REVISED -
PLOT SCALE =	CHECKED - PLP	REVISED -
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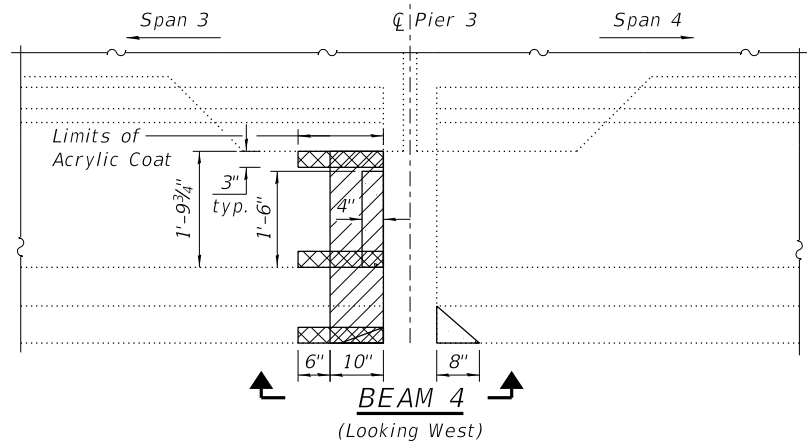
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BEAM REPAIR DETAILS
STRUCTURE NO. 071-0053 (NB)**

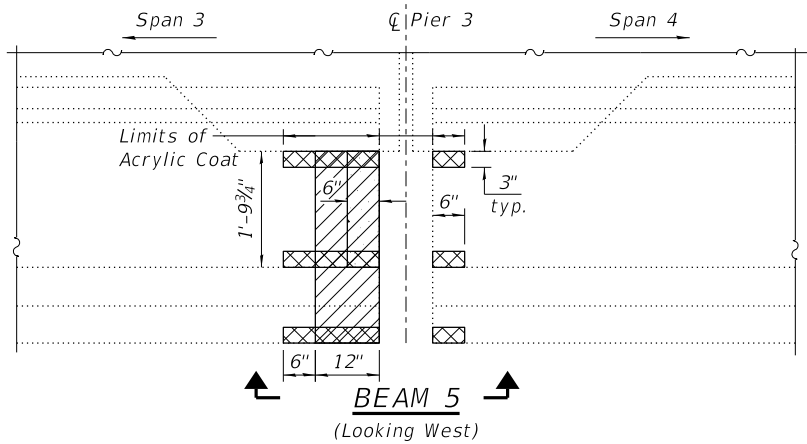
STRUCTURAL SHEET 16 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

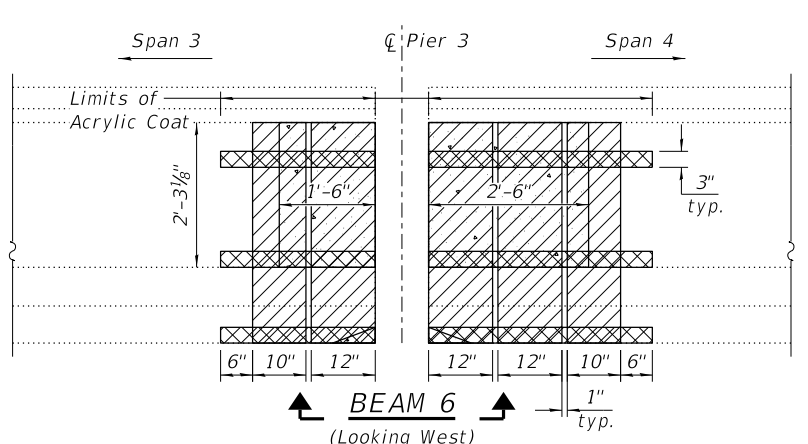
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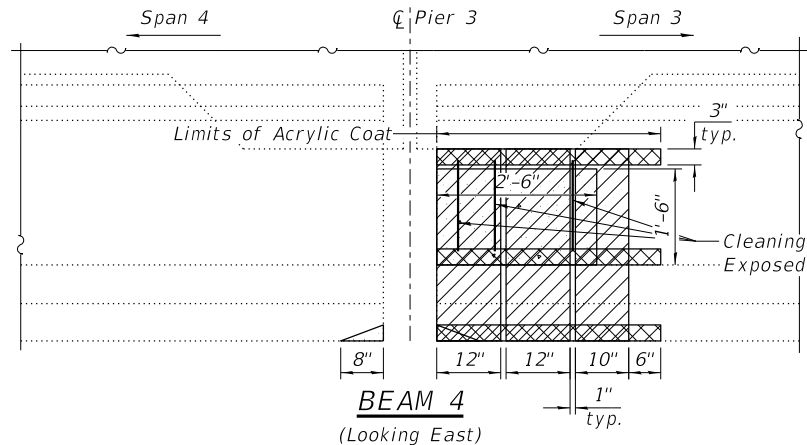
BEAM 4
(Looking West)



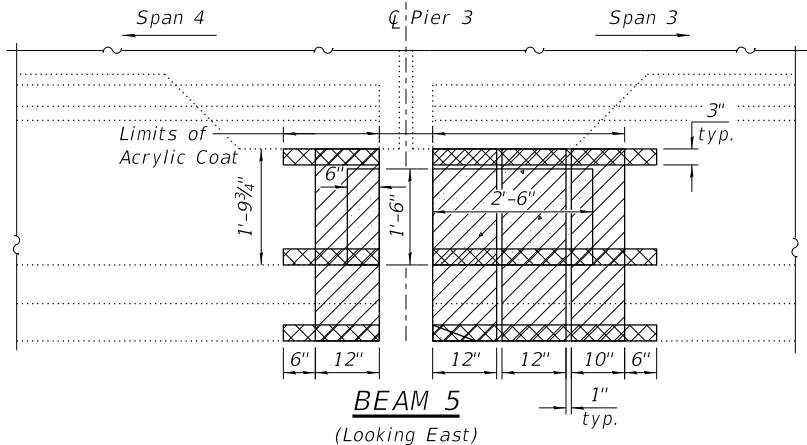
BEAM 5
(Looking West)



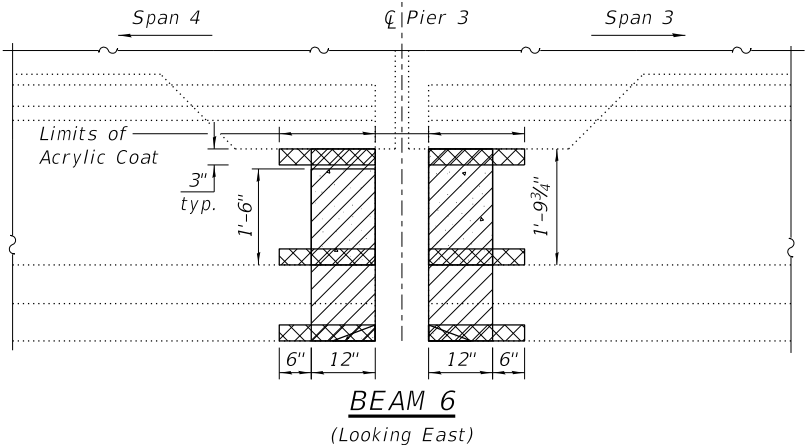
BEAM 6
(Looking West)



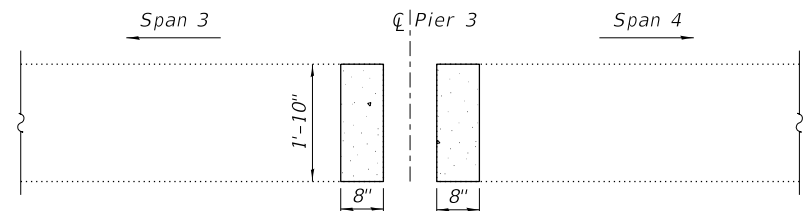
BEAM 4
(Looking East)



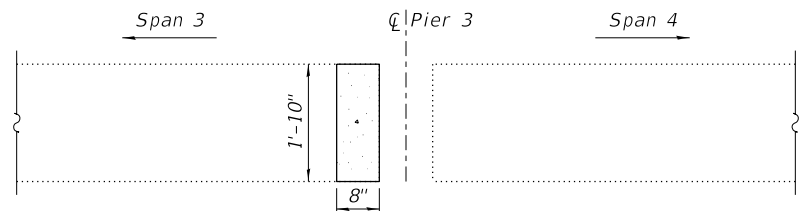
BEAM 5
(Looking East)



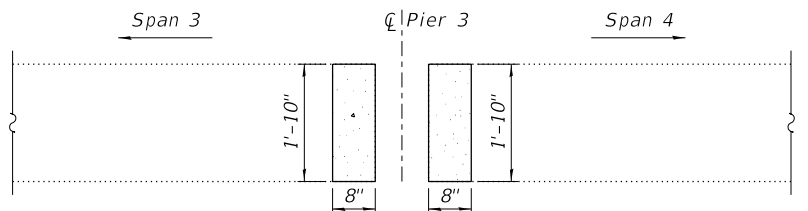
BEAM 6
(Looking East)



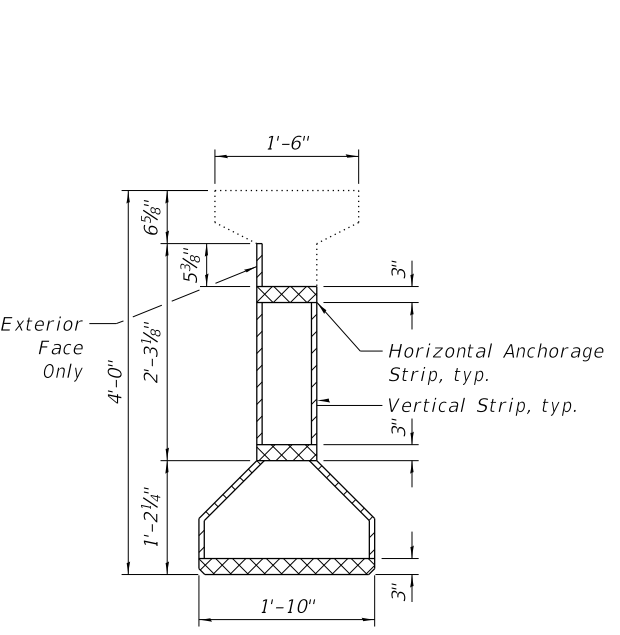
BEAM 4 - SECTION VIEW
(Bottom Flange)



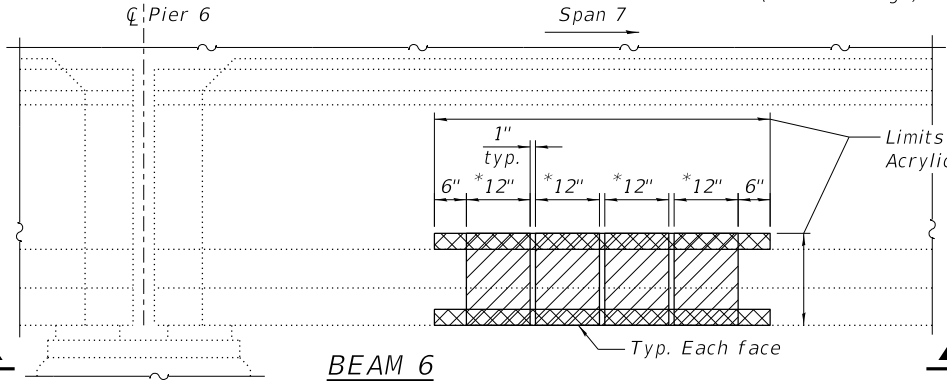
BEAM 5 - SECTION VIEW
(Bottom Flange)



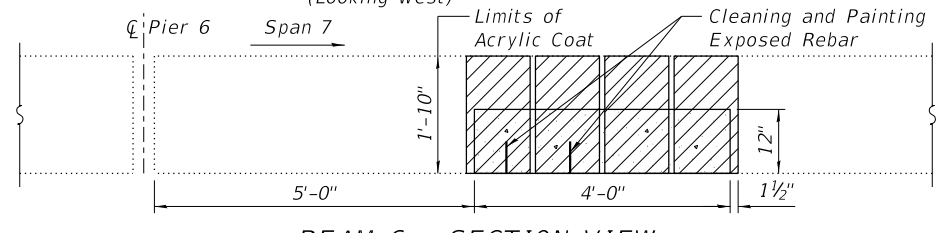
BEAM 6 - SECTION VIEW
(Bottom Flange)



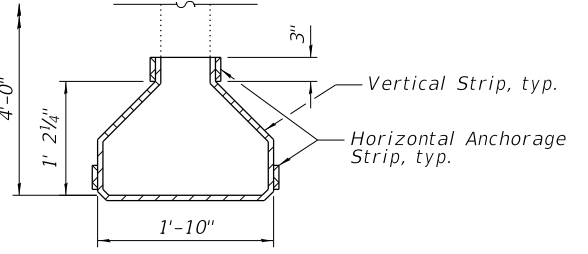
TYPICAL BEAM END CROSS SECTION



BEAM 6
(Looking West)



BEAM 6 - SECTION VIEW
(Bottom Flange - Pier Cap not shown for clarity)



BEAM 6 CROSS SECTION

*Single vertical panel shall wrap around beam in front of bearing.

LEGEND

- Fiber Wrap
- I-Beam Repair
- Fiber Wrap (Horizontal Strips)

BILL OF MATERIAL

Item	Unit	Total
Fiber Wrap	Sq. Ft.	197.3
Acrylic Coating	Sq. Yd.	21.8
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	79.3
Cleaning and Painting Exposed Rebar	L. Sum	0.5

NOTES:

Acrylic coating shall be placed over fiber wrap repairs.
 See Special Provisions for "Fiber Wrap for PCC I-Beam Repairs."
 See Special Provisions for "Precast Prestressed Concrete I-Beam Repairs."
 Vertical panels must be between 10" and 12". Vertical panels shall extend beyond the repair zone by a minimum of 3". Vertical panels located above the bearing location shall be placed in two pieces.
 Horizontal anchorage strips shall be 3" wide and extend a minimum of 6" beyond the vertical panels or horizontal panels.
 The horizontal strips shall be placed on top of the vertical panels.
 See structural sheet 3 of 45 for Beam Numbers.

WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

USER NAME =	DESIGNED - ELL	REVISED -
PLOT SCALE =	CHECKED - PLP	REVISED -
PLOT DATE =	DRAWN - FDL	REVISED -
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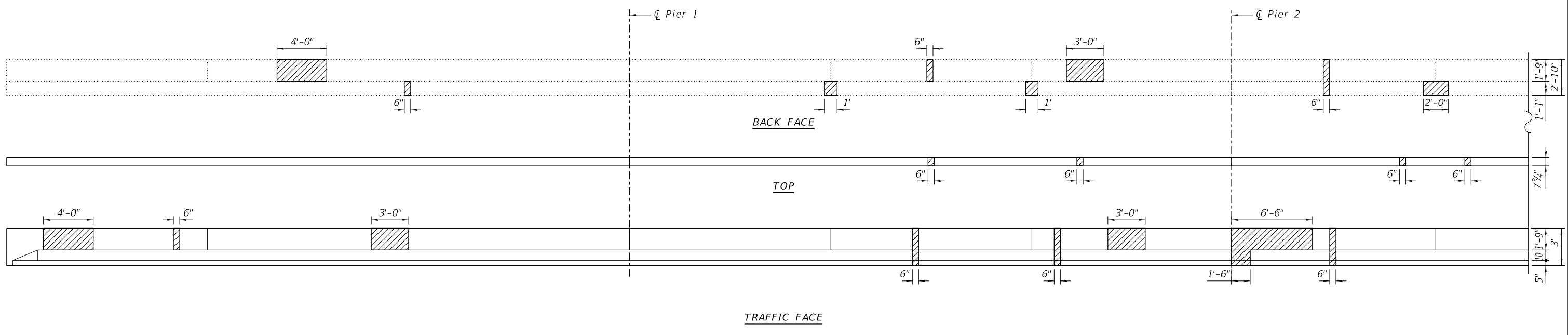
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM REPAIR DETAILS
STRUCTURE NO. 071-0053 (NB)

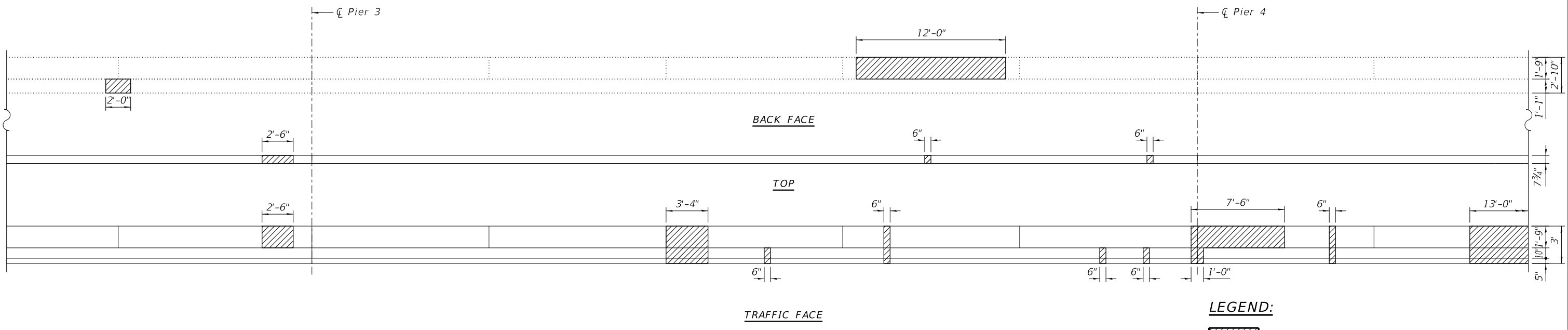
STRUCTURAL SHEET 17 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	28
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Default
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB West Parapet Repairs.dgn
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SOUTHBOUND WEST PARAPET DETERIORATION



SOUTHBOUND WEST PARAPET DETERIORATION

LEGEND:
 Structural Repair Of Concrete
 (Depth Equal to or Less Than 5")

NOTE:
 See Page structural sheet 21 of 45 for structure quantity.
 All Concrete Removal Regions shall have a 3/4" sawcut around perimeter prior to Concrete Removal operations. Cost included in Structural Repair of Concrete (Depth Equal to or Less Than 5").



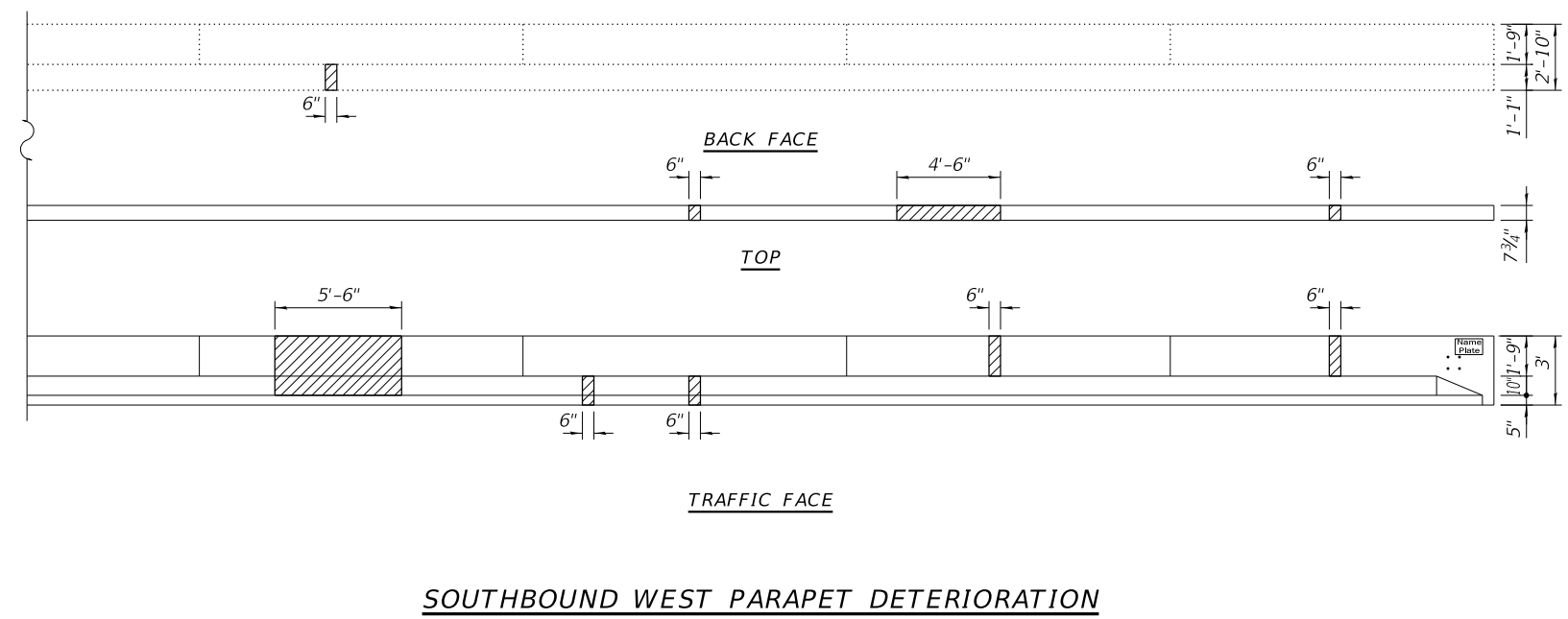
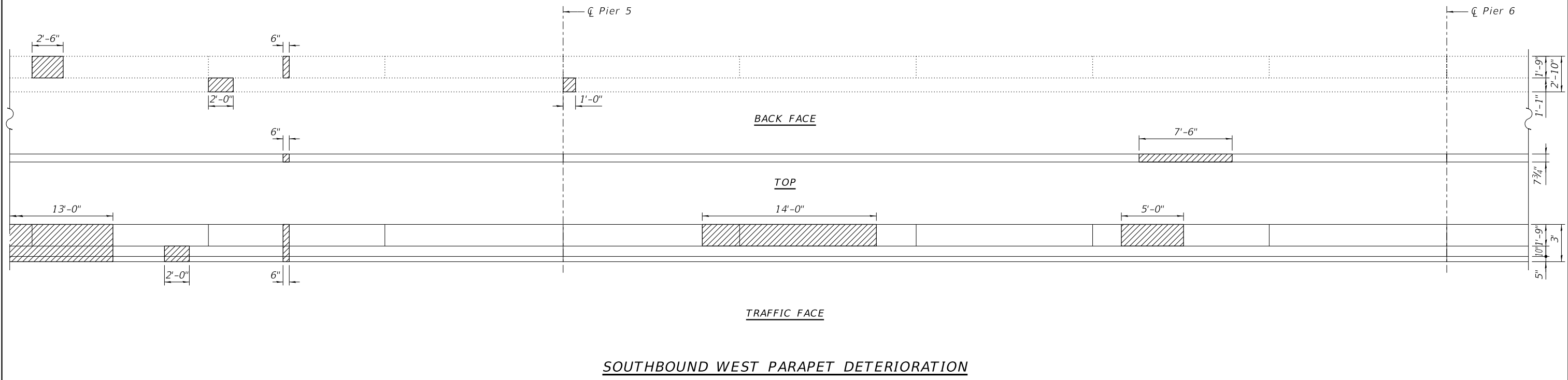
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PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WEST PARAPET REPAIRS SOUTHBOUND STRUCTURE
 STRUCTURE NO. 071-0052 (SB)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	30
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

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LEGEND:
 Structural Repair Of Concrete (Depth Equal to or Less Than 5")

NOTE:
 See Page structural sheet 21 of 45 for structure quantity.
 All Concrete Removal Regions shall have a 3/4" sawcut around perimeter prior to Concrete Removal operations. Cost included in Structural Repair of Concrete (Depth Equal to or Less Than 5").

WILLETT HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

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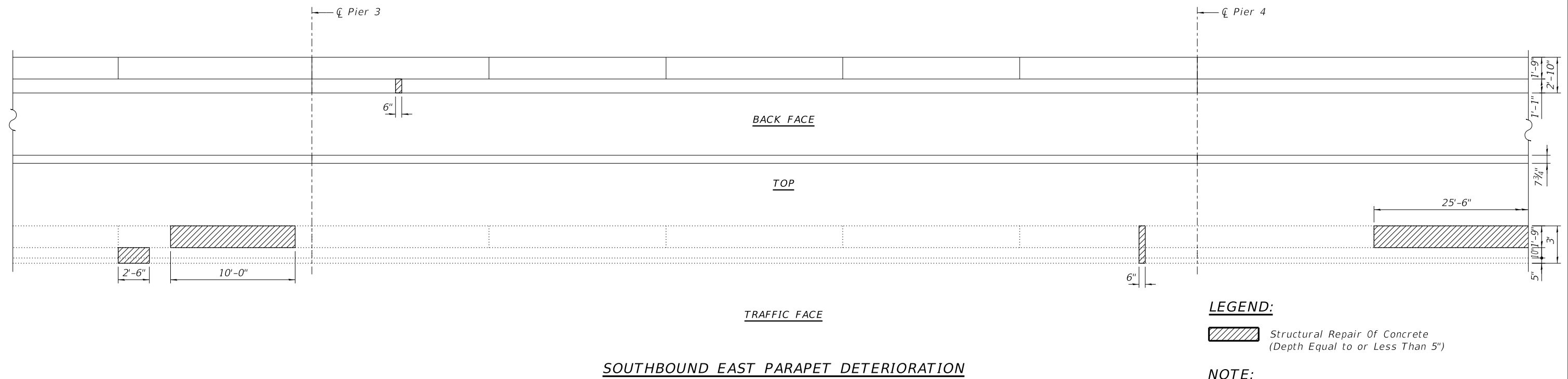
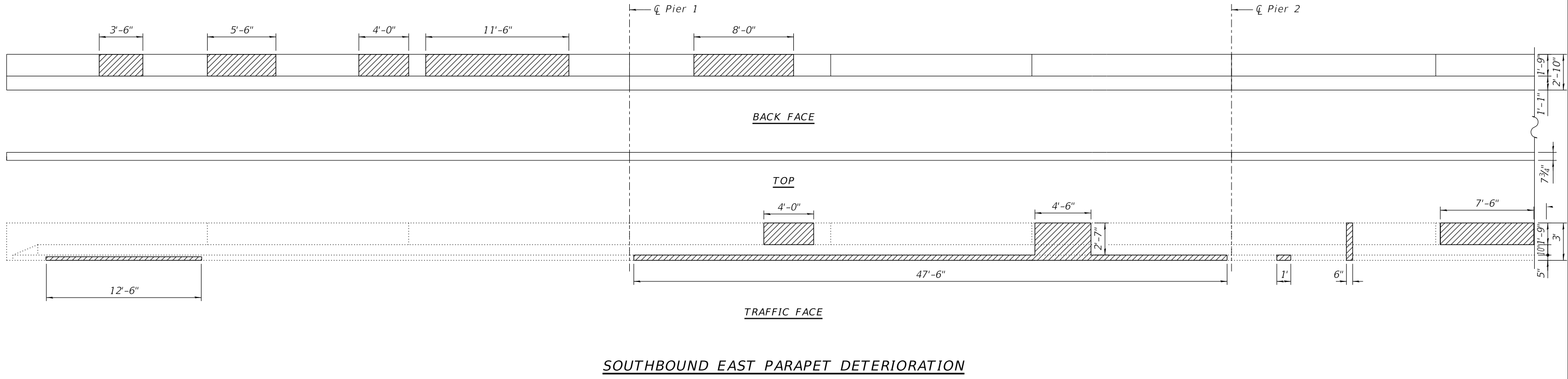
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WEST PARAPET REPAIRS SOUTHBOUND STRUCTURE
 STRUCTURE NO. 071-0052 (SB)**

STRUCTURAL SHEET 19 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Default
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LEGEND:
 Structural Repair Of Concrete
 (Depth Equal to or Less Than 5")

NOTE:
 See Page structural sheet 21 of 45 for structure quantity.
 All Concrete Removal Regions shall have a 3/4" sawcut around
 perimeter prior to Concrete Removal operations. Cost included in
 Structural Repair of Concrete (Depth Equal to or Less Than 5").

WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

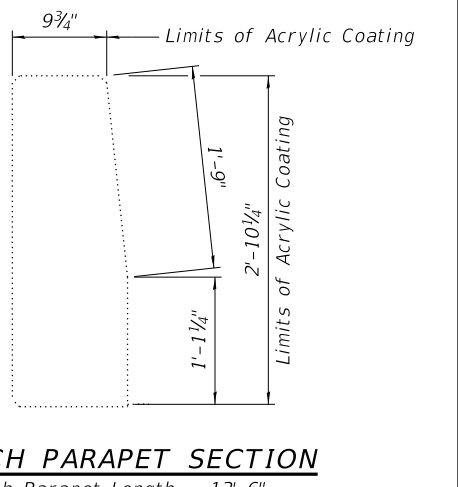
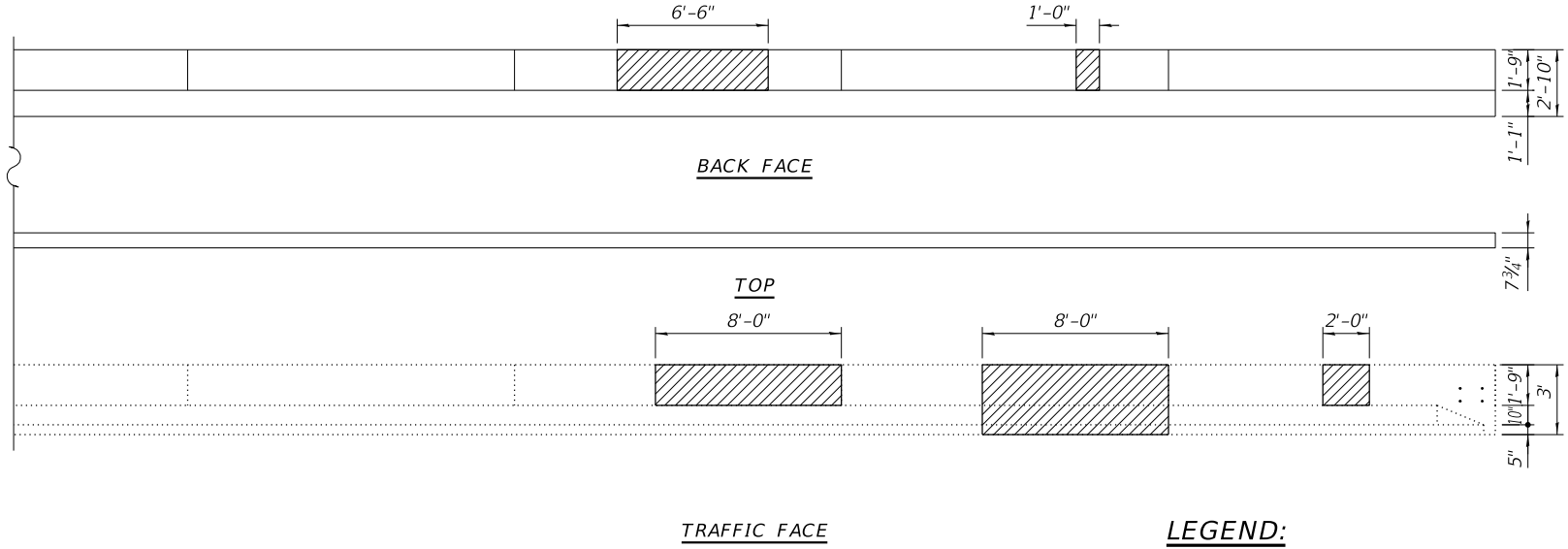
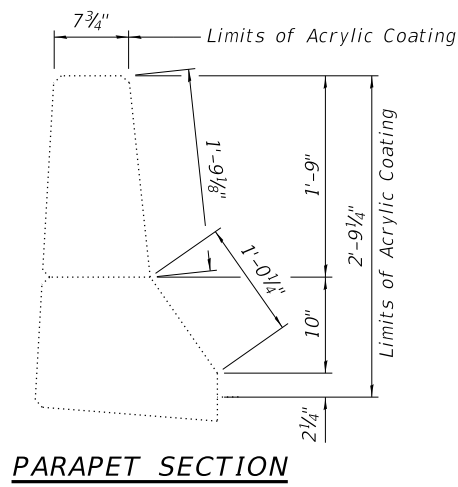
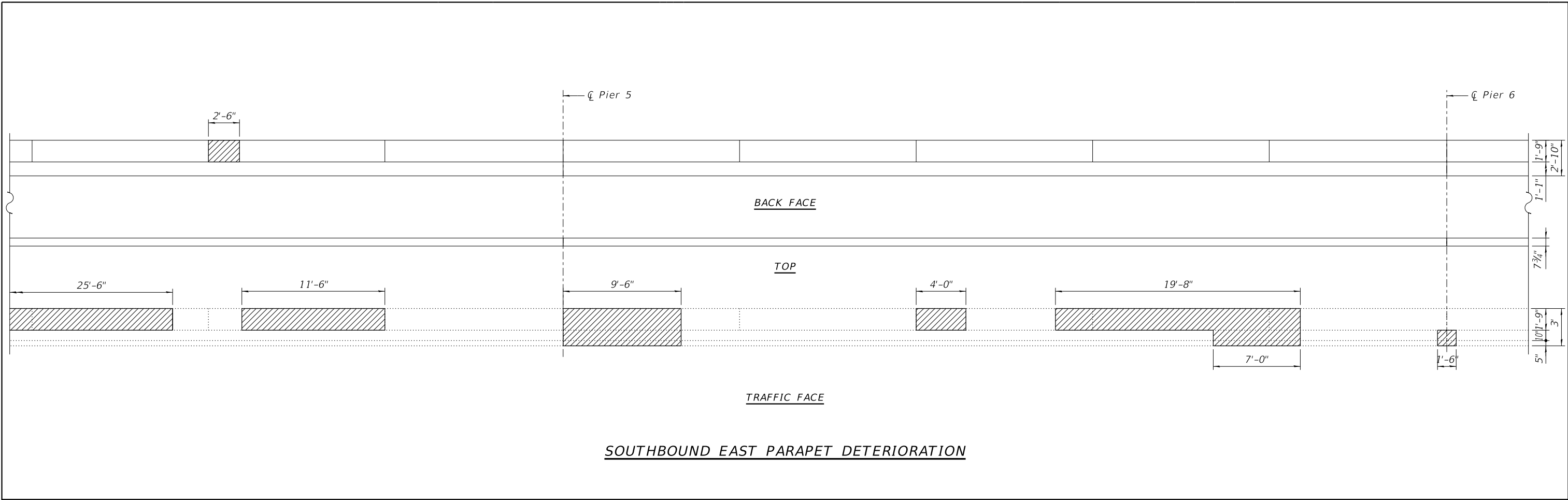
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST PARAPET REPAIRS SOUTHBOUND STRUCTURE
 STRUCTURE NO. 071-0052 (SB)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	32
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

MODEL: Default
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NOTE:
 All Concrete Removal Regions shall have a 3/4" sawcut around perimeter prior to Concrete Removal operations. Cost included in Structural Repair of Concrete (Depth Equal to or Less Than 5").

LEGEND:
 Structural Repair Of Concrete (Depth Equal to or Less Than 5")

BILL OF MATERIAL - TOTAL SUPERSTRUCTURE

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	559.8
* Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	56.0
Acrylic Coating	Sq. Yd.	369.3

* Contingent Pay Item



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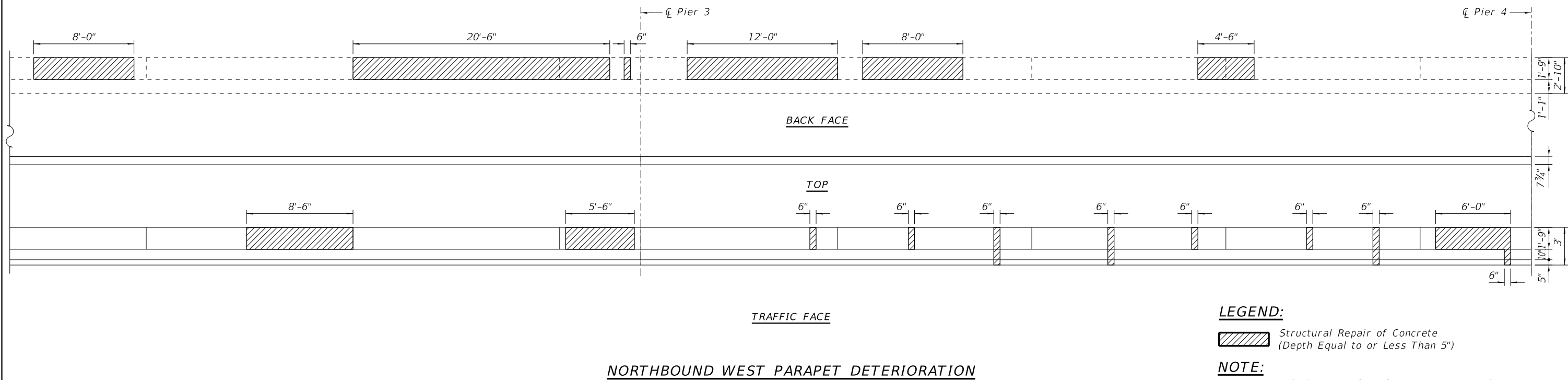
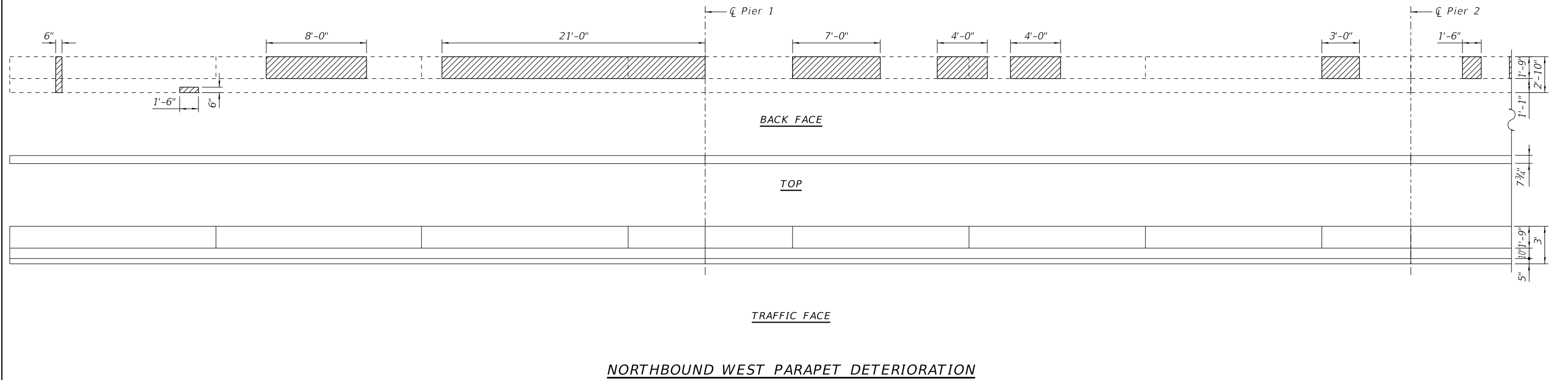
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EAST PARAPET REPAIRS SOUTHBOUND STRUCTURE
 STRUCTURE NO. 071-0052 (SB)**

STRUCTURAL SHEET 21 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	33
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

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LEGEND:
 Structural Repair of Concrete
 (Depth Equal to or Less Than 5")

NOTE:
 See structural sheet 25 of 45 for structure quantity.
 All Concrete Removal Regions shall have a 3/4" sawcut around
 perimeter prior to Concrete Removal operations. Cost included in
 Structural Repair of Concrete (Depth Equal to or Less Than 5").

WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
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 T: 815-284-3381 DESIGN FIRM: #184-000918

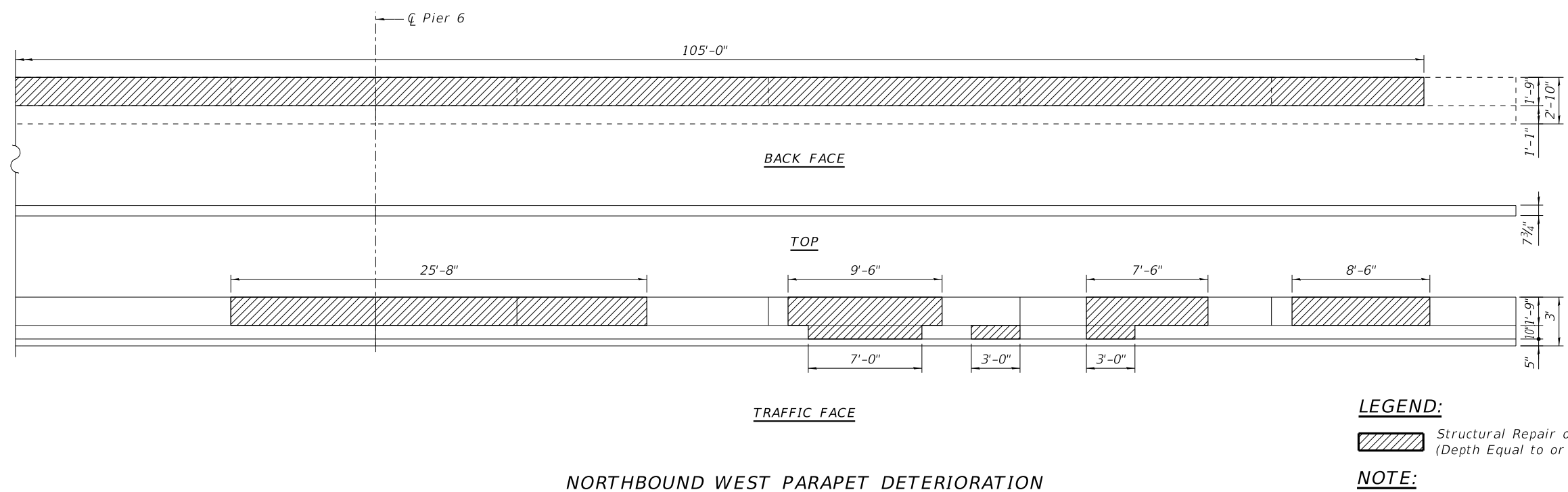
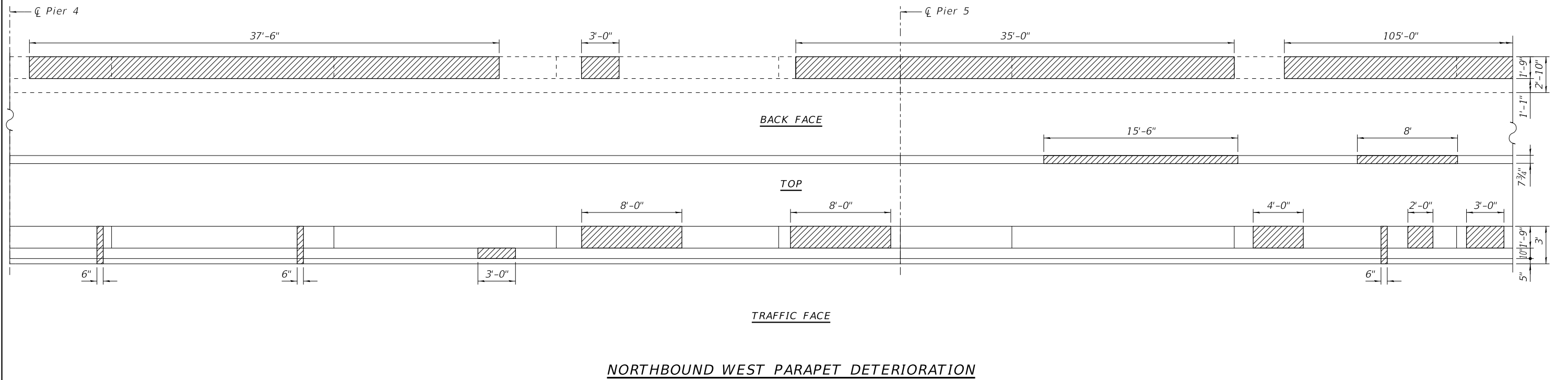
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PLOT DATE =	CHECKED - BKC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WEST PARAPET REPAIRS NORTHBOUND STRUCTURE
 STRUCTURE NO. 071-0053 (NB)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	34
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

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LEGEND:
 Structural Repair of Concrete
 (Depth Equal to or Less Than 5")

NOTE:
 See structural sheet 25 of 45 for structure quantity.
 All Concrete Removal Regions shall have a 3/4" sawcut around
 perimeter prior to Concrete Removal operations. Cost included in
 Structural Repair of Concrete (Depth Equal to or Less Than 5").

WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
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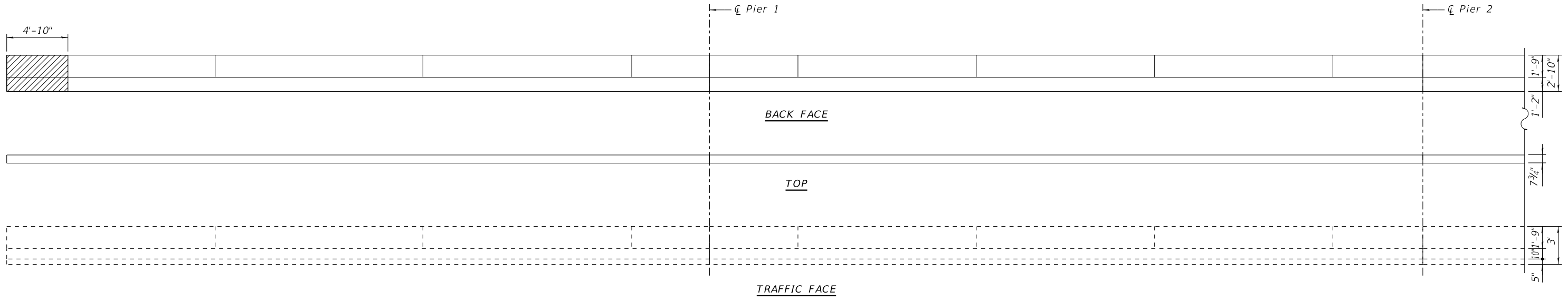
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**WEST PARAPET REPAIRS NORTHBOUND STRUCTURE
 STRUCTURE NO. 071-0053 (NB)**

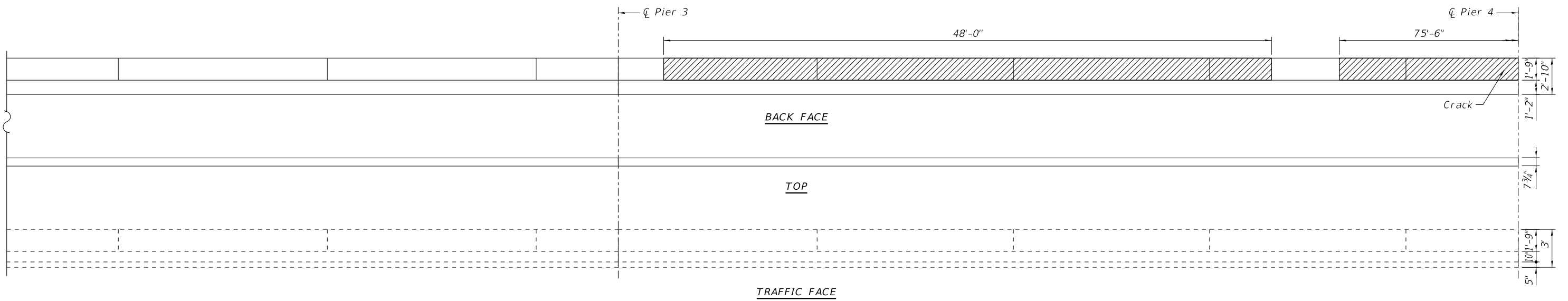
STRUCTURAL SHEET 23 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WHA# 1427D18		CONTRACT NO. 64P04		
		ILLINOIS FED. AID PROJECT		


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NORTHBOUND EAST PARAPET DETERIORATION



NORTHBOUND EAST PARAPET DETERIORATION

LEGEND:
 Structural Repair of Concrete (Depth Equal to or Less Than 5")

NOTE:
 See structural sheet 25 of 45 for structure quantity.
 All Concrete Removal Regions shall have a 3/4" sawcut around perimeter prior to Concrete Removal operations. Cost included in Structural Repair of Concrete (Depth Equal to or Less Than 5").

WILLET HOFMANN & ASSOCIATES INC.
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 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

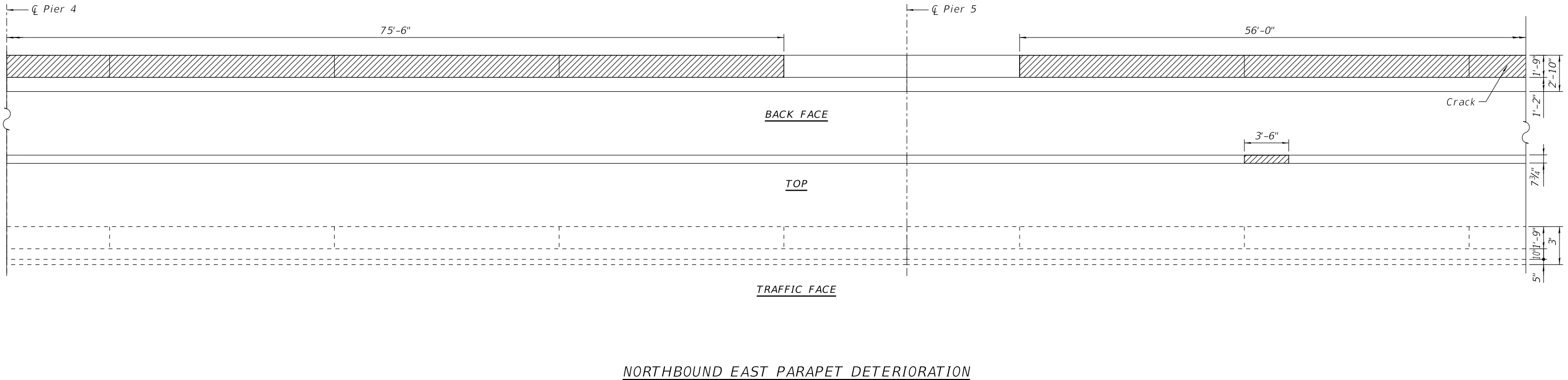
USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

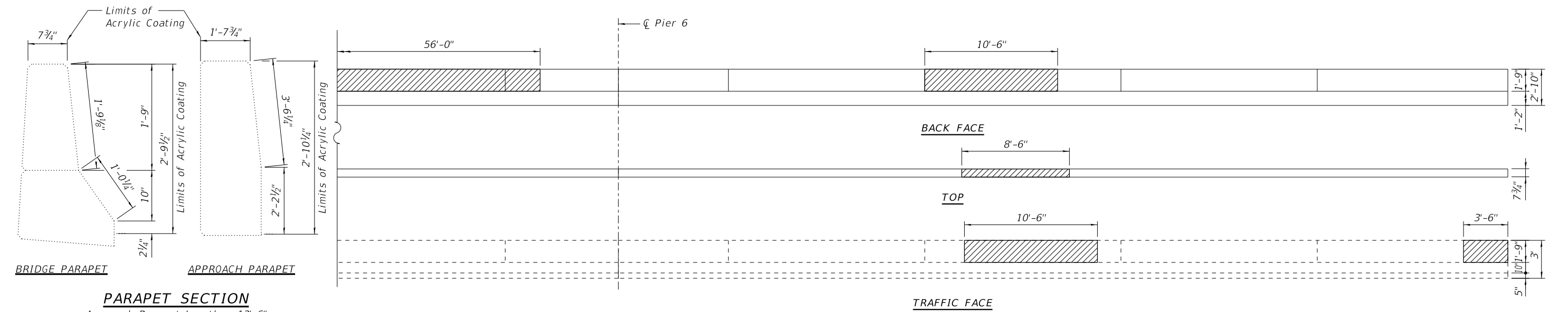
**EAST PARAPET REPAIRS NORTHBOUND STRUCTURE
 STRUCTURE NO. 071-0053 (NB)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	36
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Default
FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0053_NB East Parapet Repairs.dgn



NORTHBOUND EAST PARAPET DETERIORATION



NORTHBOUND EAST PARAPET DETERIORATION



PARAPET SECTION
Approach Parapet Length = 13'-6"

BILL OF MATERIAL - TOTAL SUPERSTRUCTURE

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	1,089.3
* Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	108.9
Acrylic Coating	Sq. Yd.	388.6

* Contingent Pay Item

LEGEND:

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

NOTE:

All Concrete Removal Regions shall have a 3/4" sawcut around perimeter prior to Concrete Removal operations. Cost included in Structural Repair of Concrete (Depth Equal to or Less Than 5").



USER NAME =	DESIGNED - EEL	REVISED -
PLOT SCALE =	CHECKED - BKC	REVISED -
PLOT DATE =	DRAWN - FDL	REVISED -
	CHECKED - BKC	REVISED -

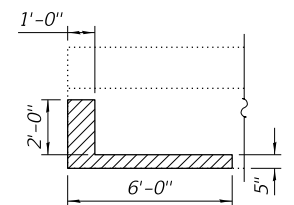
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST PARAPET REPAIRS NORTHBOUND STRUCTURE
STRUCTURE NO. 071-0053 (NB)**

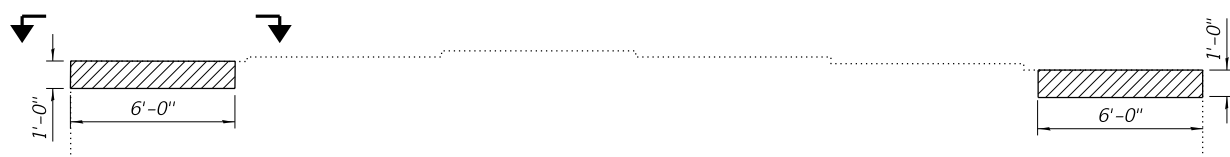
STRUCTURAL SHEET 25 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	37
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

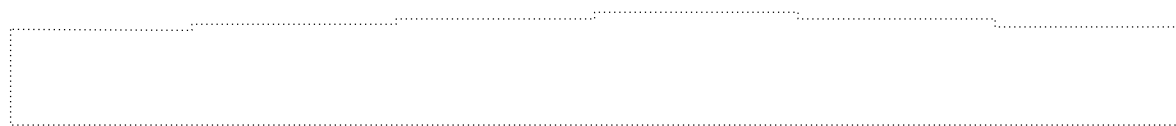
MODEL: Abutment Deterioration
FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB-0053_NB Abutment Deterioration.dgn



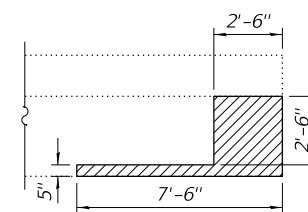
END SECTION VIEW



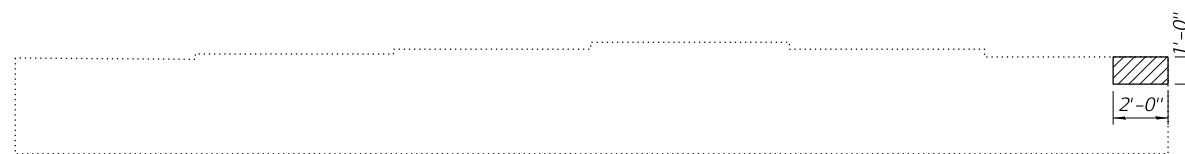
NORTHBOUND NORTH ABUTMENT
(Looking North)



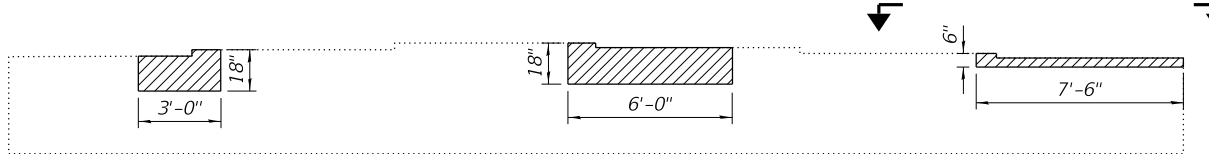
SOUTHBOUND NORTH ABUTMENT
No Significant Deteriorations Noted
(Looking North)



END SECTION VIEW



NORTHBOUND SOUTH ABUTMENT
(Looking South)



SOUTHBOUND SOUTH ABUTMENT
(Looking South)

NORTHBOUND STRUCTURE (071-0053) - BOTH ABUTMENTS

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	16.0
* Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	1.6

SOUTHBOUND STRUCTURE (071-0052) - BOTH ABUTMENTS

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	23.5
* Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	2.3

* Contingent Pay item

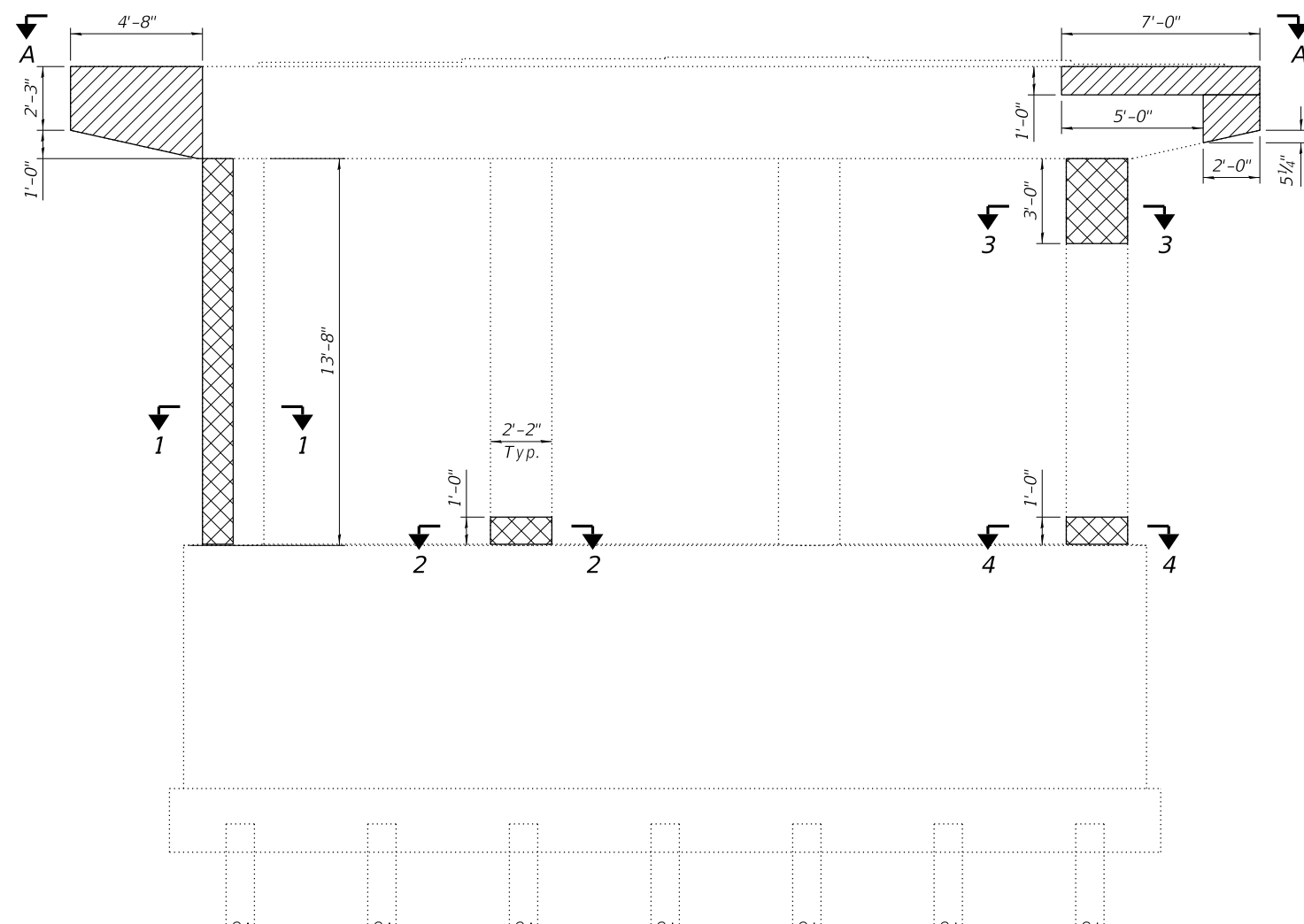
LEGEND:

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

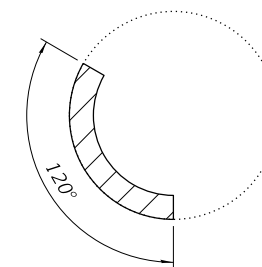
MODEL: Southbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB Pier Deterioration.dgn



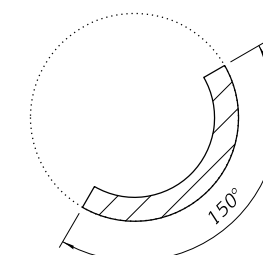
SECTION A-A



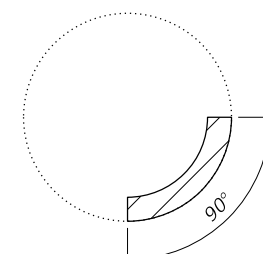
ELEVATION VIEW
(Looking North)



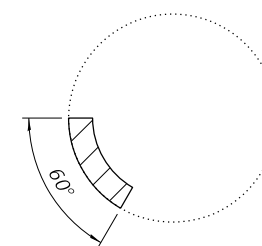
SECTION 1-1



SECTION 2-2



SECTION 3-3

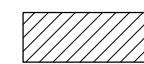


SECTION 4-4

LEGEND



Structural Repair of Concrete
(Depth Equal to or Less than 5 Inches,
Fiber Wrap, and Acrylic Coat)



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

NOTE:

Areas on columns designated Structural Repair of Concrete (Depth Equal to or Less than 5 Inches) with Fiber Wrap and Acrylic Coat shall have Fiber Wrap and Acrylic Coat applied around entire circumference of column to the depth shown.

See structural sheet 35 of 45 for structure quantity.

WILLETT HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 1 STRUCTURAL REPAIR DETAILS – SOUTH FACE
 STRUCTURE NO. 071-0052 (SB)**

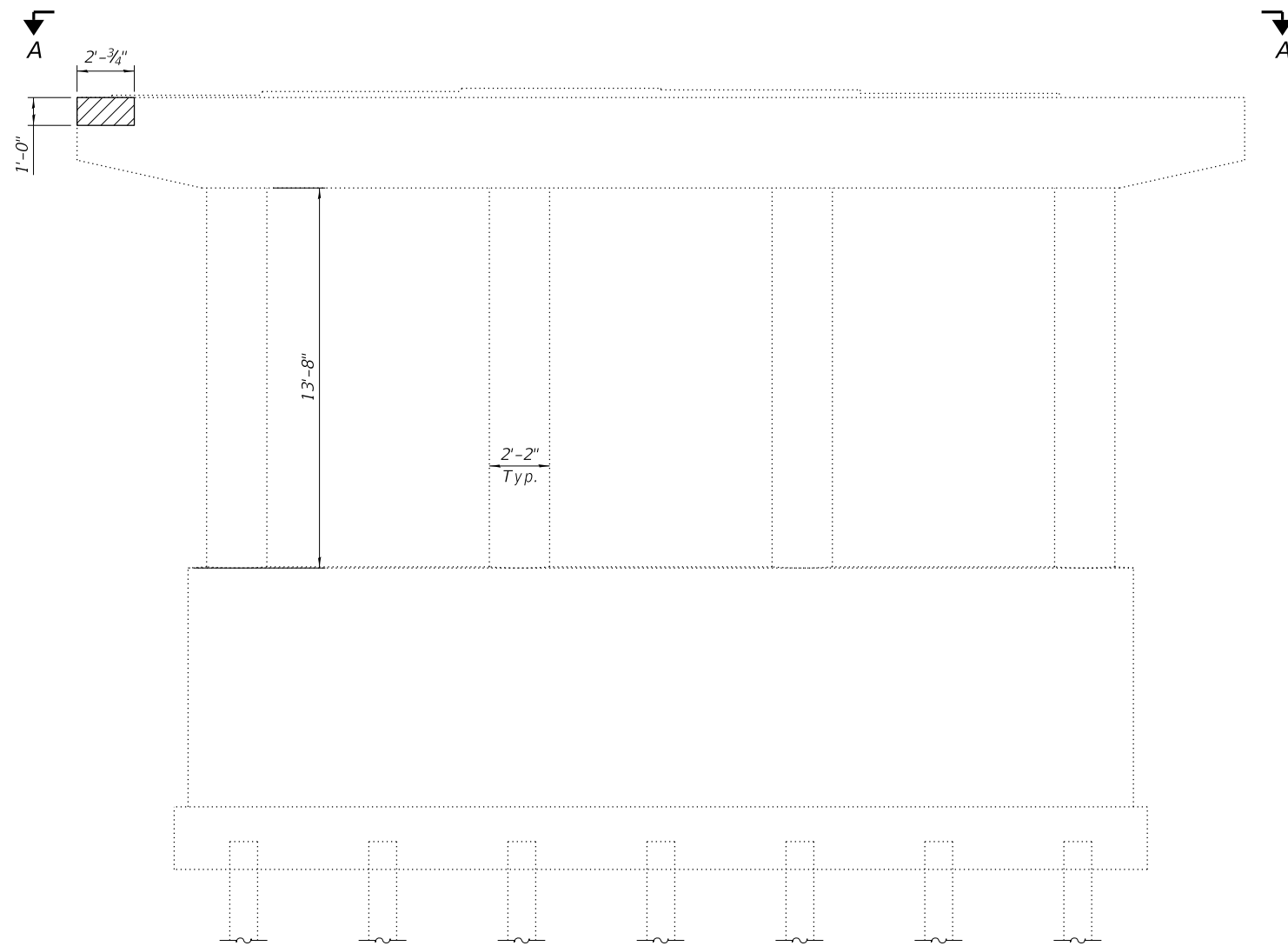
STRUCTURAL SHEET 27 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	39
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Southbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work_Order_#7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB Pier Deterioration.dgn



SECTION A-A



ELEVATION VIEW
(Looking South)

LEGEND



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

NOTE:

See structural sheet 35 of 45 for structure quantity.



WILLETT HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

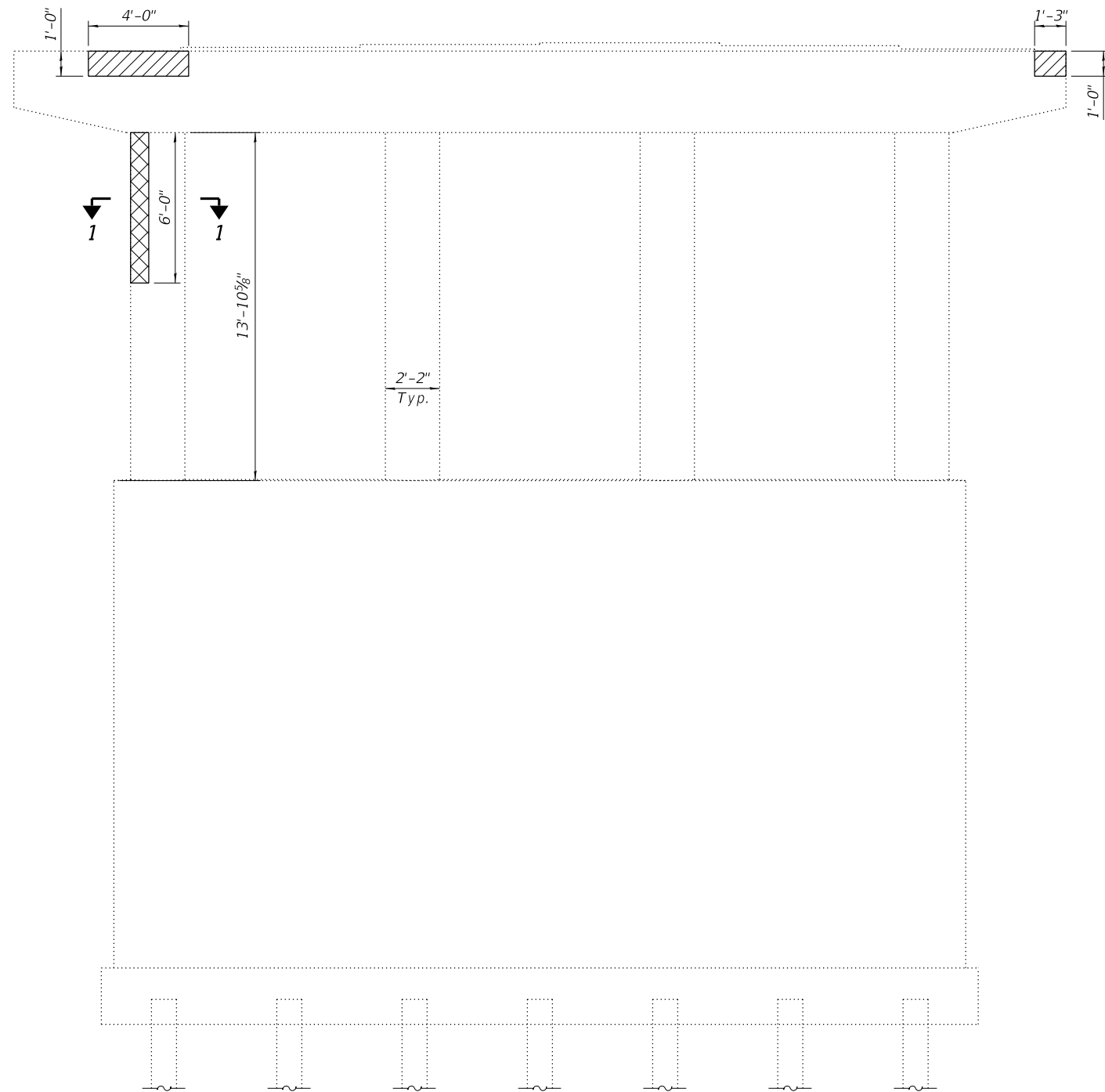
**PIER 1 STRUCTURAL REPAIR DETAILS - NORTH FACE
 STRUCTURE NO. 071-0052 (SB)**

STRUCTURAL SHEET 28 OF 45 SHEETS

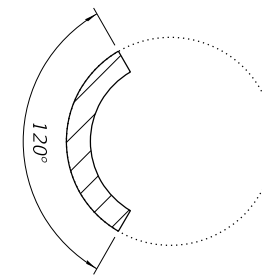
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	40
WHA# 1427D18		CONTRACT NO. 64P04		

ILLINOIS FED. AID PROJECT

MODEL: Southbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB Pier Deterioration.dgn

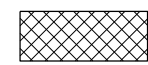


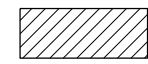
ELEVATION VIEW
 (Looking North)



SECTION 1-1

LEGEND

 Structural Repair of Concrete
 (Depth Equal to or Less than 5 Inches,
 Fiber Wrap, and Acrylic Coat)

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

NOTE:

Areas on columns designated Structural Repair of Concrete (Depth Equal to or Less than 5 Inches) with Fiber Wrap and Acrylic Coat shall have Fiber Wrap and Acrylic Coat applied around entire circumference of column to the depth shown.

See structural sheet 35 of 45 for structure quantity.

WILLETT HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

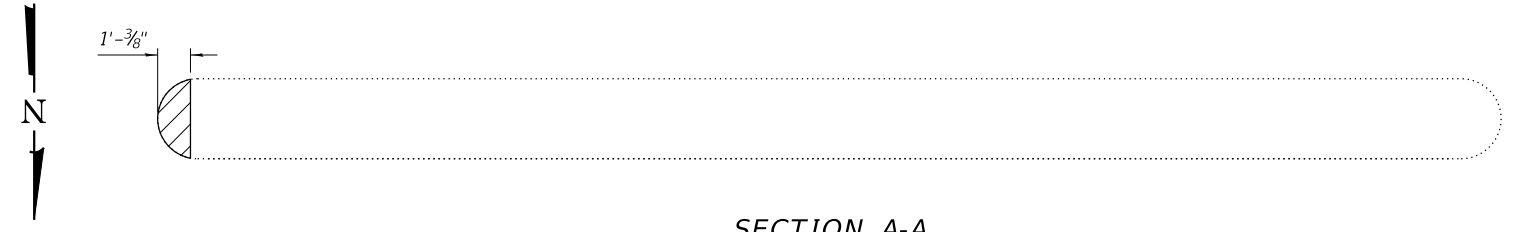
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 2 STRUCTURAL REPAIR DETAILS - SOUTH FACE
 STRUCTURE NO. 071-0052 (SB)**

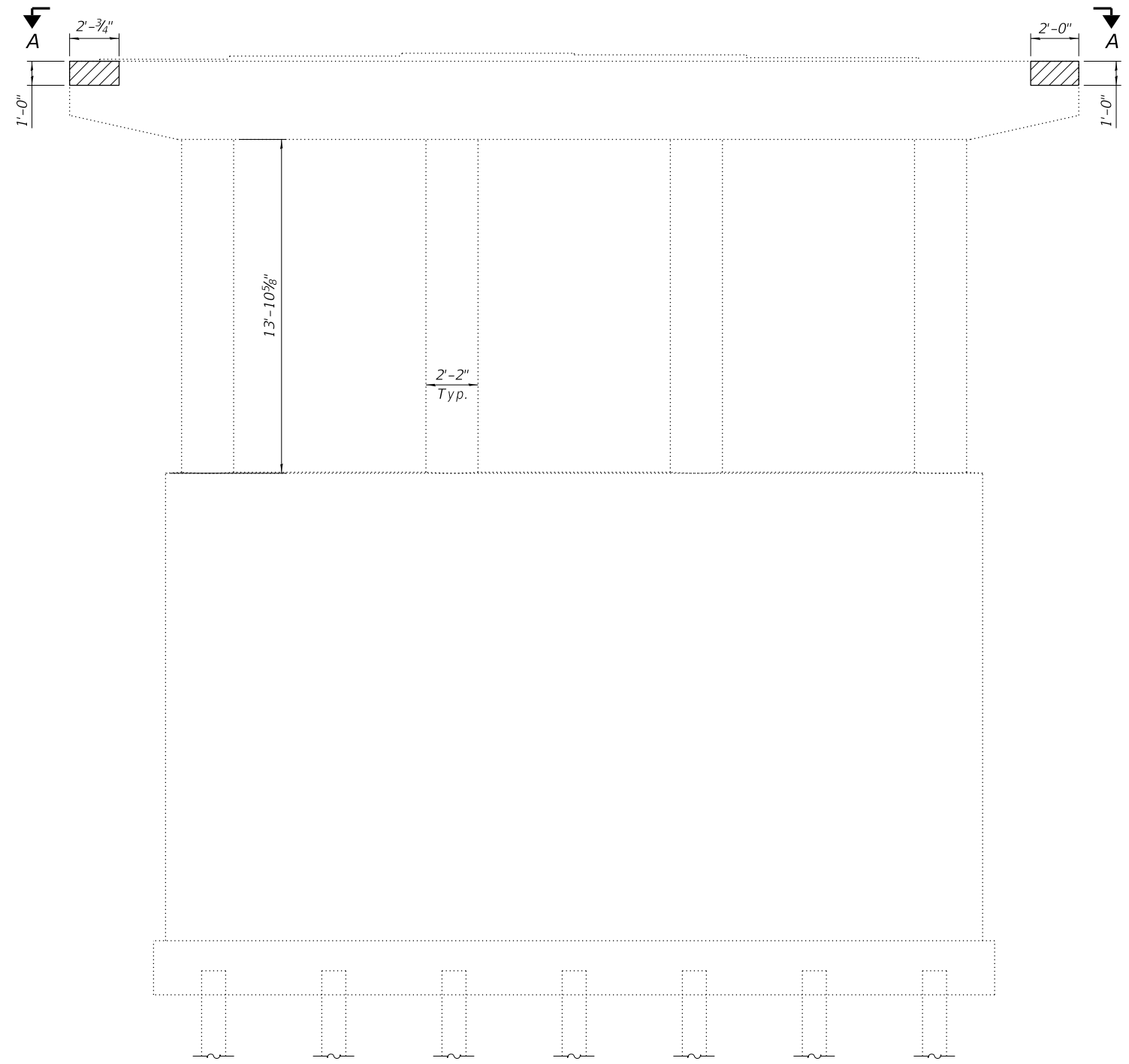
STRUCTURAL SHEET 29 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	41
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Southbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work_Order_#7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB Pier Deterioration.dgn

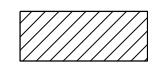


SECTION A-A



ELEVATION VIEW
(Looking South)

LEGEND

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

NOTE:
See structural sheet 35 of 45 for structure quantity.



USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

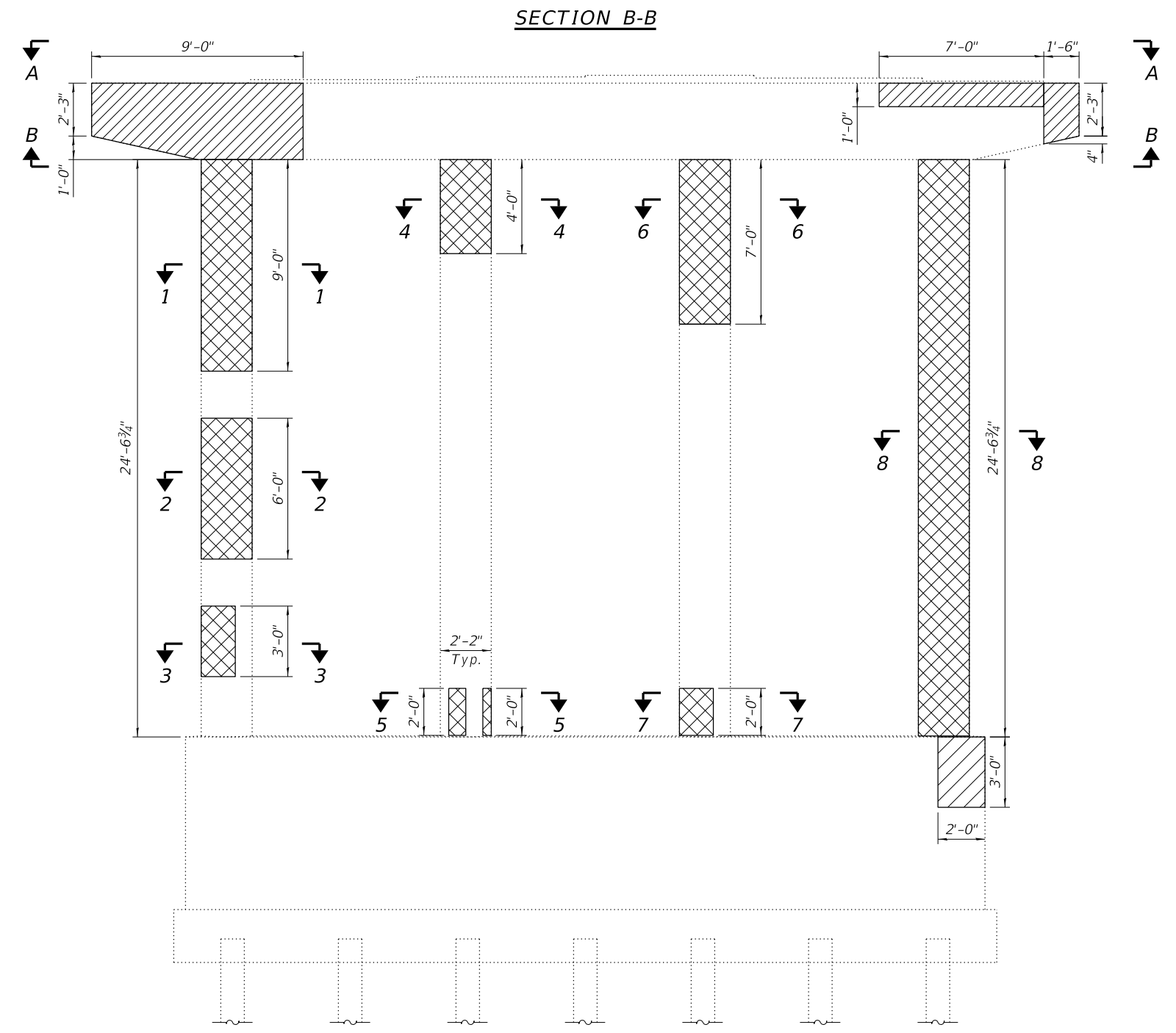
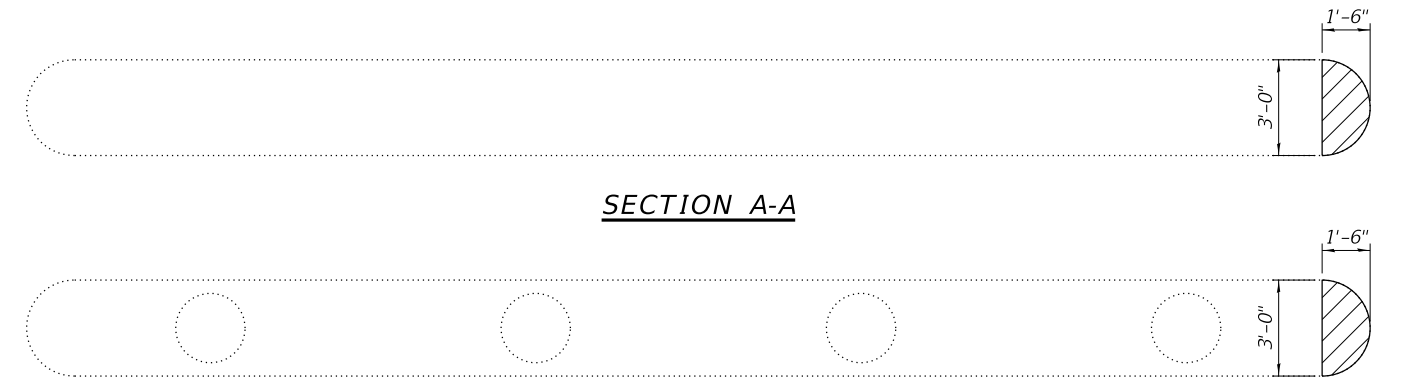
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 2 STRUCTURAL REPAIR DETAILS - NORTH FACE
STRUCTURE NO. 071-0052 (SB)

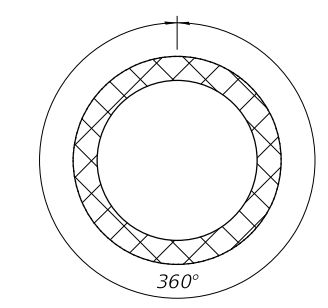
STRUCTURAL SHEET 30 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	42
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

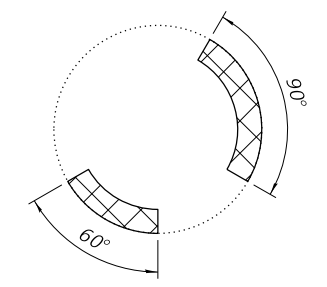
MODEL: Southbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB Pier Deterioration.dgn



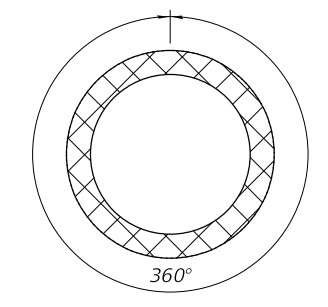
ELEVATION VIEW
(Looking North)



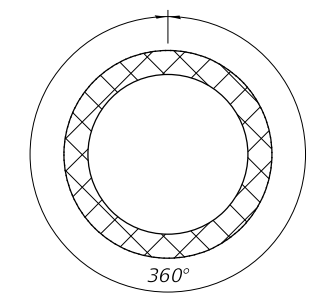
SECTION 1-1



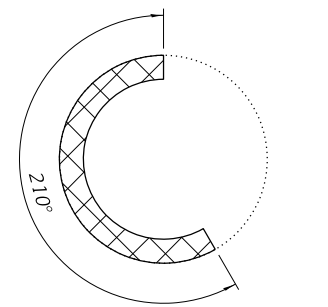
SECTION 5-5



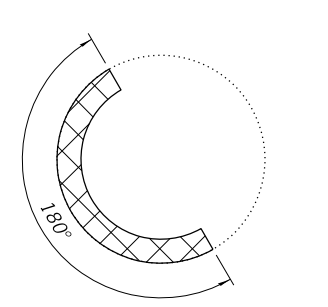
SECTION 2-2



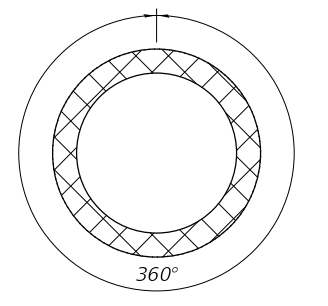
SECTION 6-6



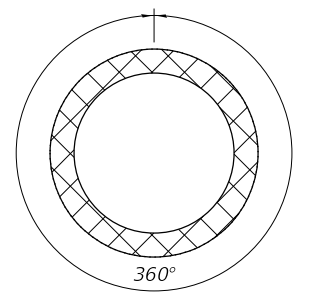
SECTION 3-3



SECTION 7-7

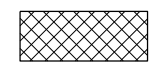


SECTION 4-4

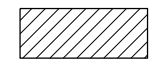


SECTION 8-8

LEGEND



Structural Repair of Concrete
(Depth Equal to or Less than 5 Inches,
Fiber Wrap, and Acrylic Coat)



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

NOTE:

Areas on columns designated Structural Repair of Concrete (Depth Equal to or Less than 5 Inches) with Fiber Wrap and Acrylic Coat shall have Fiber Wrap and Acrylic Coat applied around entire circumference of column to the depth shown.

See structural sheet 35 of 45 for structure quantity.



USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

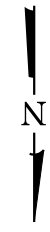
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 3 STRUCTURAL REPAIR DETAILS - SOUTH FACE
STRUCTURE NO. 071-0052 (SB)

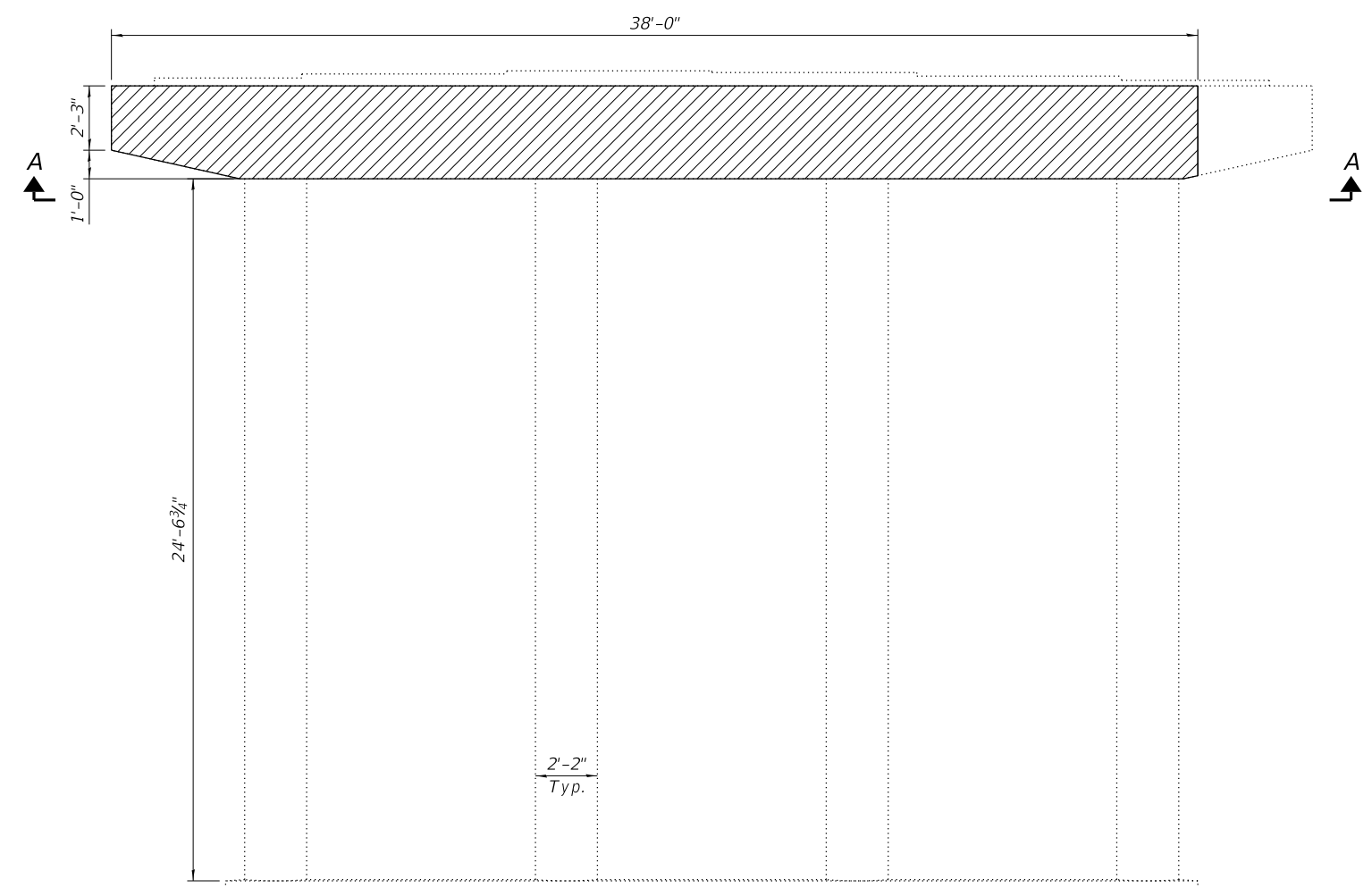
STRUCTURAL SHEET 31 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	43
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Southbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB Pier Deterioration.dgn

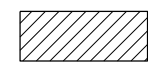


SECTION A-A
 (Deterioration at bottom of cap)



ELEVATION VIEW
 (Looking South)

LEGEND

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

NOTE:
 See structural sheet 35 of 45 for structure quantity.



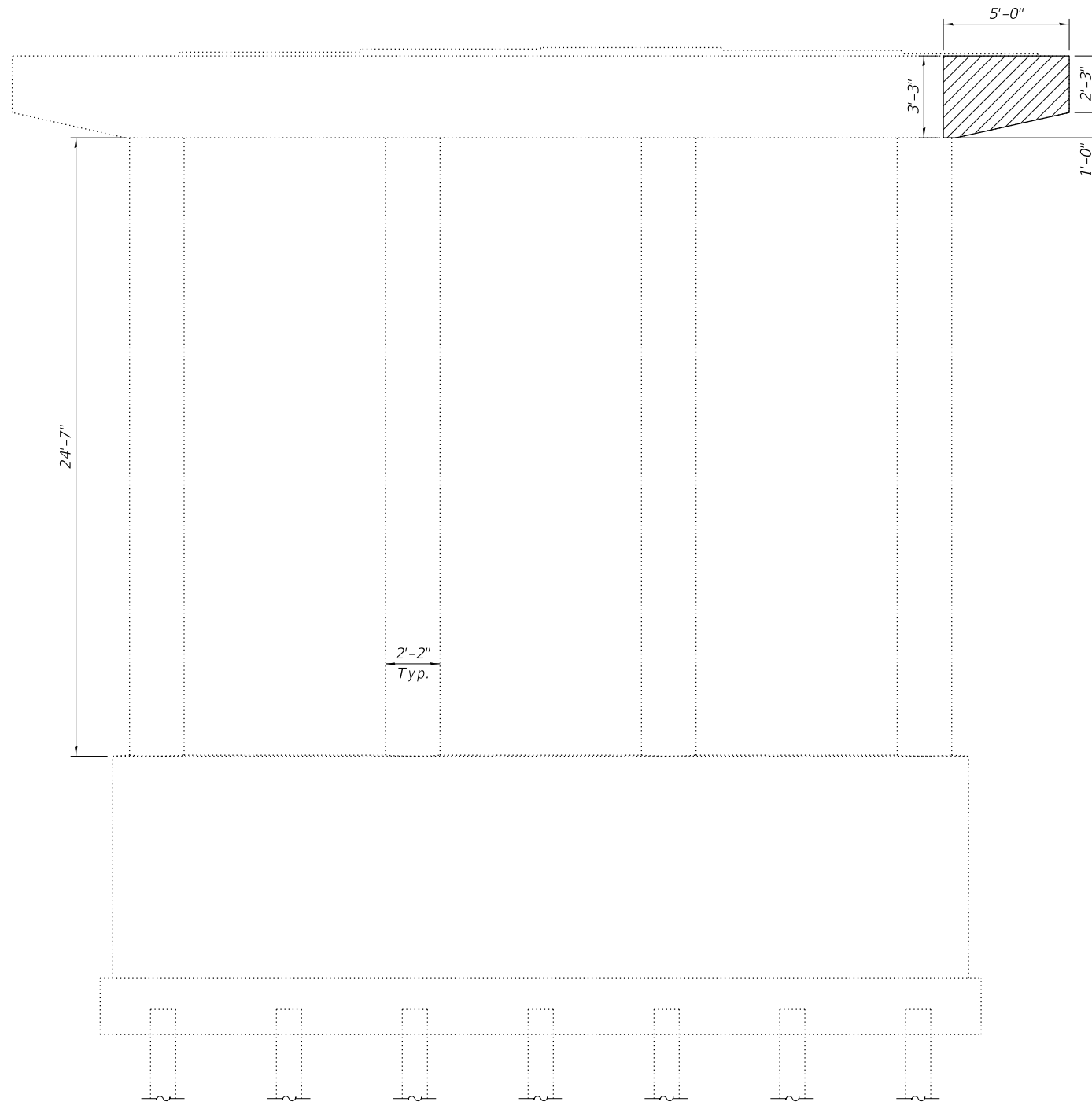
USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 3 STRUCTURAL REPAIR DETAILS - NORTH FACE
STRUCTURE NO. 071-0052 (SB)


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	44
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Southbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB Pier Deterioration.dgn



ELEVATION VIEW
 (Looking North)

LEGEND

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

NOTE:

See structural sheet 35 of 45 for structure quantity.



USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

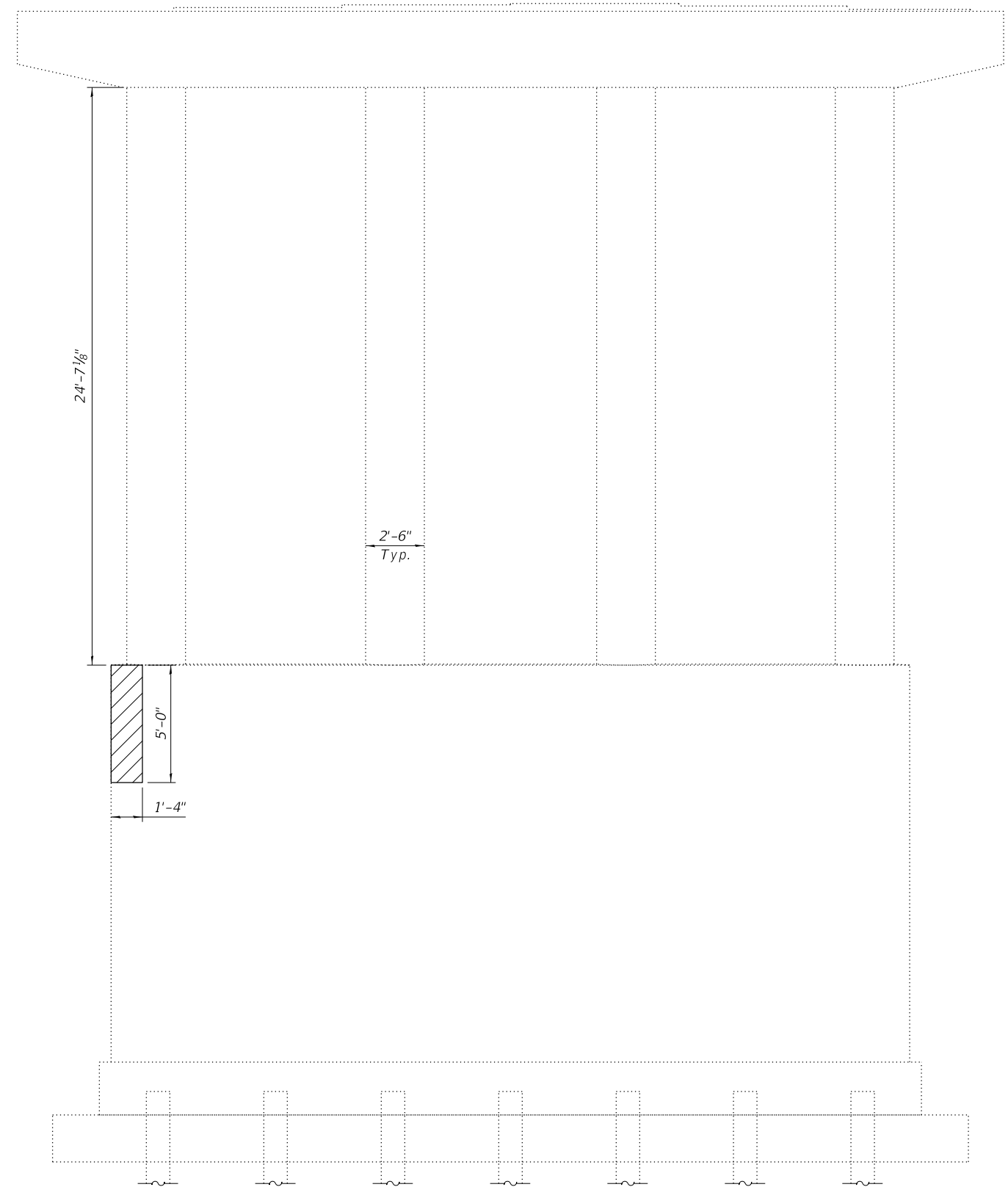
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 4 STRUCTURAL REPAIR DETAILS - SOUTH FACE
STRUCTURE NO. 071-0052 (SB)

STRUCTURAL SHEET 33 OF 45 SHEETS

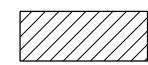
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	45
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Southbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB Pier Deterioration.dgn
 7/27/2020 4:14:03 PM



ELEVATION VIEW
 (Looking North)

LEGEND

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

NOTE:
 See structural sheet 35 of 45 for structure quantity.



USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

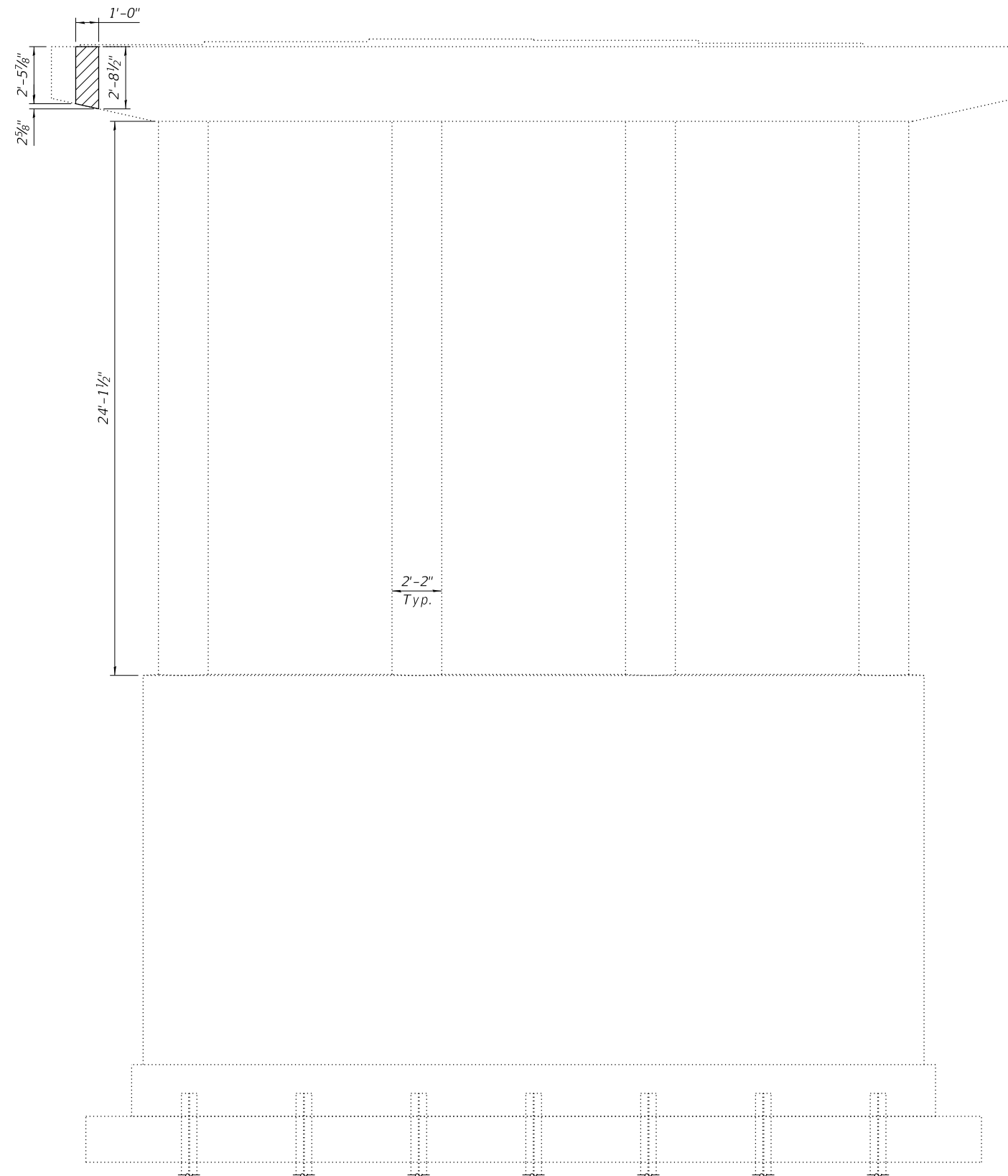
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 5 STRUCTURAL REPAIR DETAILS - SOUTH FACE
 STRUCTURE NO. 071-0052 (SB)**

STRUCTURAL SHEET 34 OF 45 SHEETS


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	46
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Southbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB Pier Deterioration.dgn



ELEVATION VIEW
(Looking North)

LEGEND

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

SOUTHBOUND STRUCTURE (071-0052) - SIX TOTAL PIERS

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	682.9
* Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	68.3
Acrylic Coating	Sq. Yd.	62.2
Fiber Wrap	Sq. Ft.	560.0

*Contingency Pay Item



USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

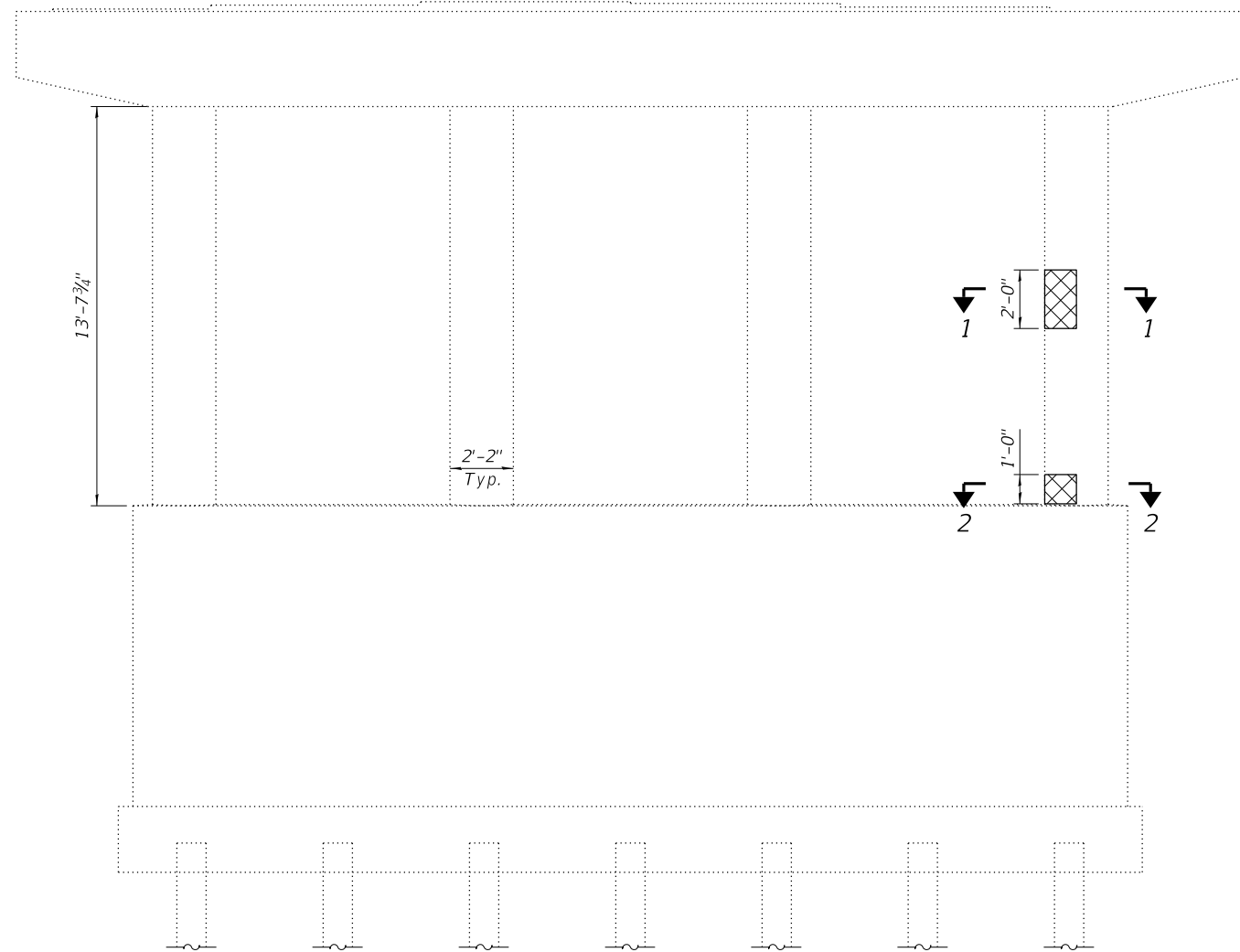
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 6 STRUCTURAL REPAIR DETAILS - SOUTH FACE
 STRUCTURE NO. 071-0052 (SB)**

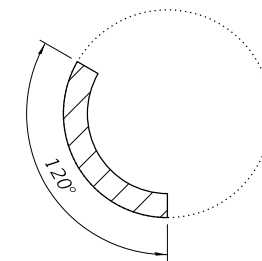
STRUCTURAL SHEET 35 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	47
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

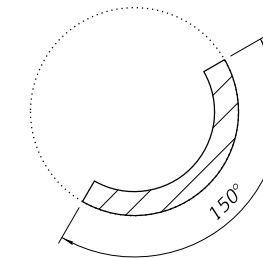
MODEL: Northbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0053_NB Pier Deterioration.dgn



ELEVATION VIEW
 (Looking North)



SECTION 1-1



SECTION 2-2

LEGEND



Structural Repair of Concrete
 (Depth Equal to or Less than 5 Inches,
 Fiber Wrap, and Acrylic Coat)

NOTE:

Areas on columns designated Structural Repair of Concrete (Depth Equal to or Less than 5 Inches) with Fiber Wrap and Acrylic Coat shall have Fiber Wrap and Acrylic Coat applied around entire circumference of column to the depth shown.

See structural sheet 44 of 45 for structure quantity.



USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

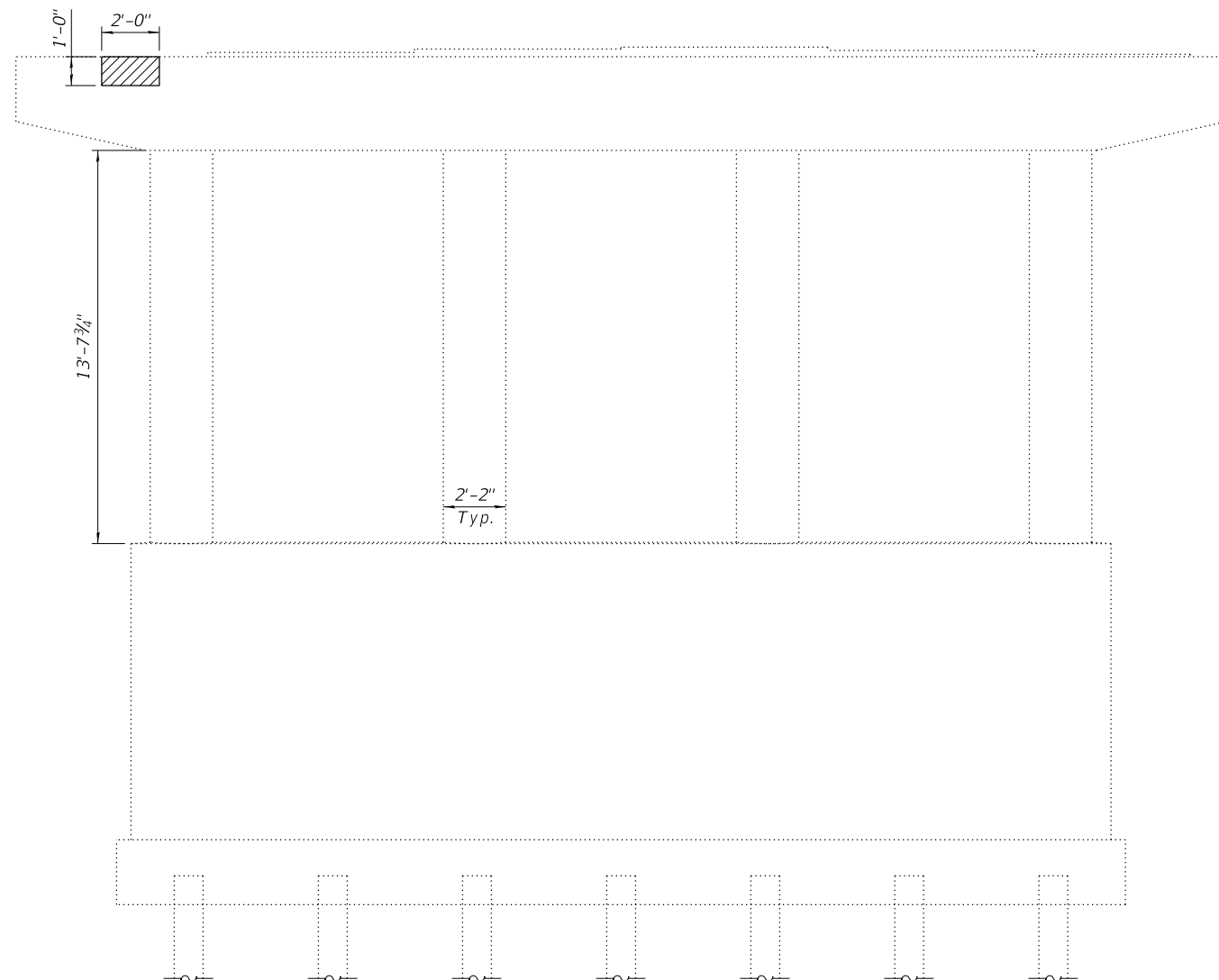
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 1 STRUCTURAL REPAIR DETAILS – SOUTH FACE
 STRUCTURE NO. 071-0053 (NB)**

STRUCTURAL SHEET 36 OF 45 SHEETS


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	48
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Northbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0053_NB Pier Deterioration.dgn



ELEVATION VIEW
 (Looking South)

LEGEND

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

NOTE:
 See structural sheet 44 of 45 for structure quantity.



USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

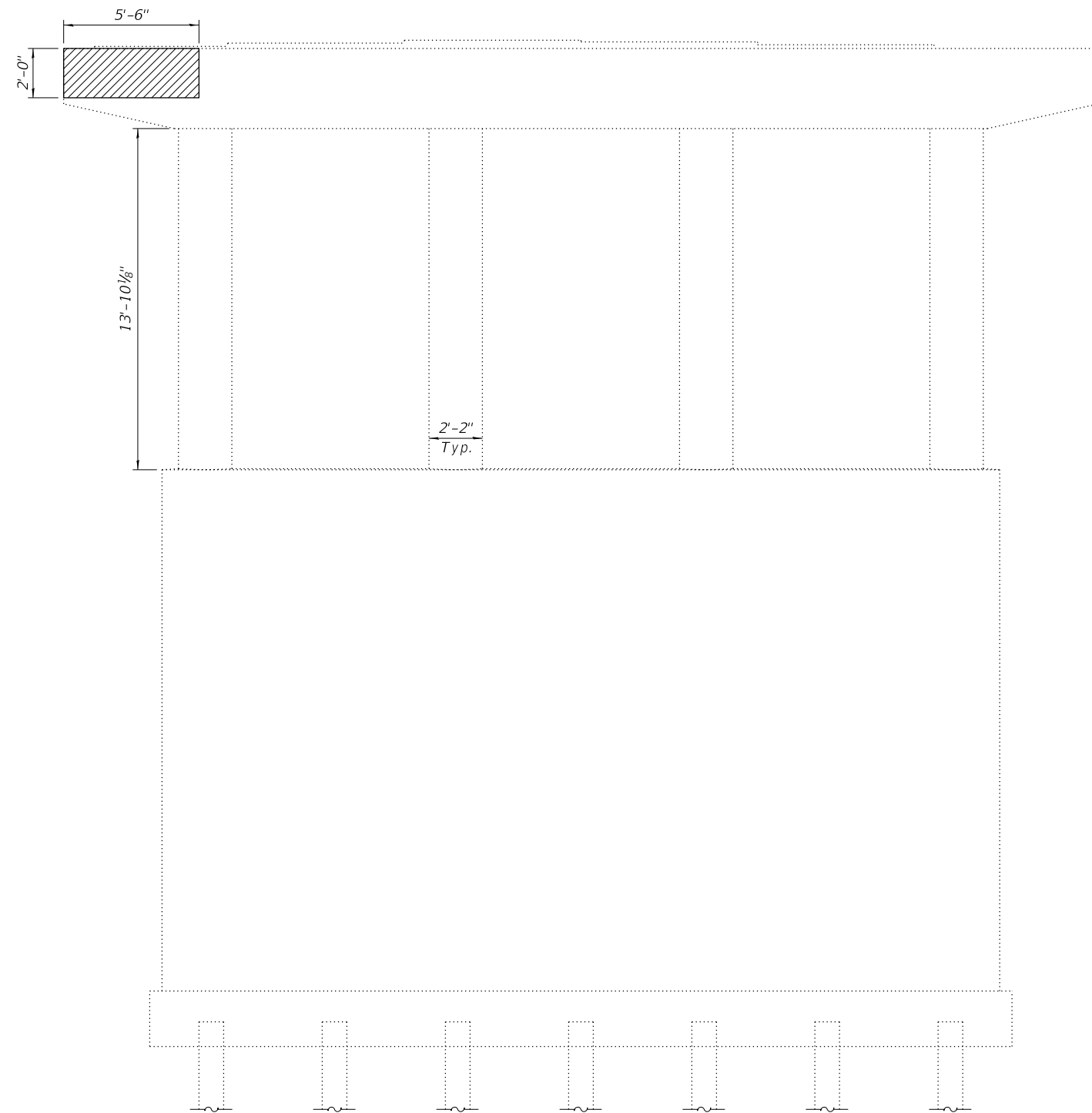
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 1 STRUCTURAL REPAIR DETAILS - NORTH FACE
STRUCTURE NO. 071-0053 (NB)

STRUCTURAL SHEET 37 OF 45 SHEETS


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	49
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Northbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0053_NB Pier Deterioration.dgn



ELEVATION VIEW
 (Looking North)

LEGEND

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

NOTE:
 See structural sheet 44 of 45 for structure quantity.

WILLET HOFMANN & ASSOCIATES INC
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

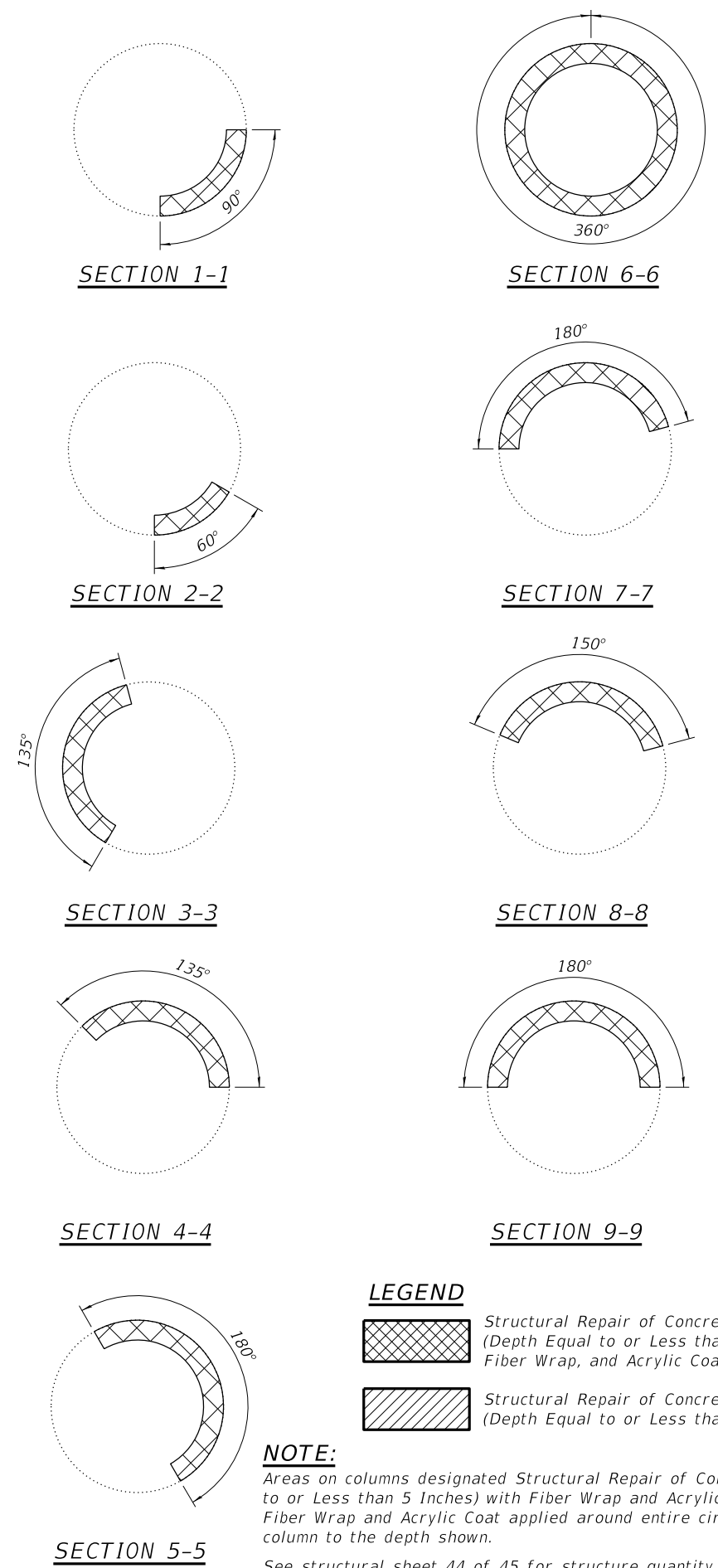
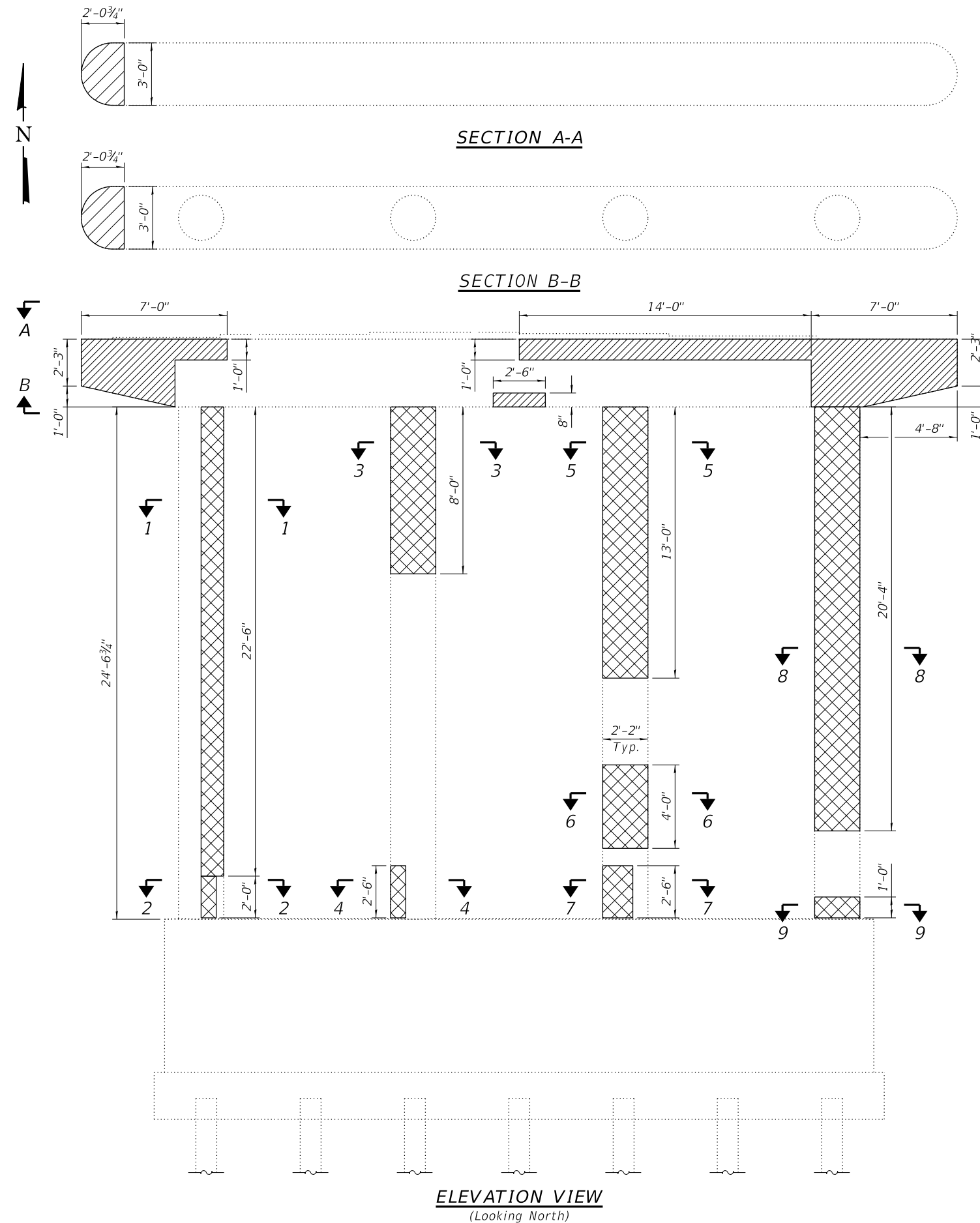
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 2 STRUCTURAL REPAIR DETAILS - SOUTH FACE
 STRUCTURE NO. 071-0053 (NB)**

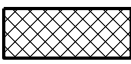
STRUCTURAL SHEET 38 OF 45 SHEETS

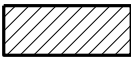
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	50
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Northbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0053_NB Pier Deterioration.dgn
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LEGEND

 Structural Repair of Concrete (Depth Equal to or Less than 5 Inches, Fiber Wrap, and Acrylic Coat)

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

NOTE:
 Areas on columns designated Structural Repair of Concrete (Depth Equal to or Less than 5 Inches) with Fiber Wrap and Acrylic Coat shall have Fiber Wrap and Acrylic Coat applied around entire circumference of column to the depth shown.
 See structural sheet 44 of 45 for structure quantity.

WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

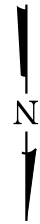
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	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

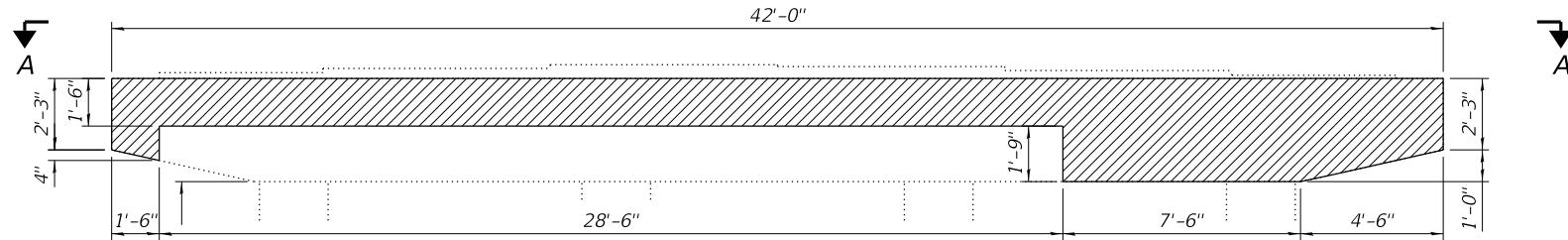
**PIER 3 STRUCTURAL REPAIR DETAILS - SOUTH FACE
 STRUCTURE NO. 071-0053 (NB)**

STRUCTURAL SHEET 39 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	51
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				




SECTION A-A



ELEVATION VIEW
(Looking South)

LEGEND

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

NOTE:

See structural sheet 44 of 45 for structure quantity.

MODEL: Northbound Structure
FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0053_NB Pier Deterioration.dgn



USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

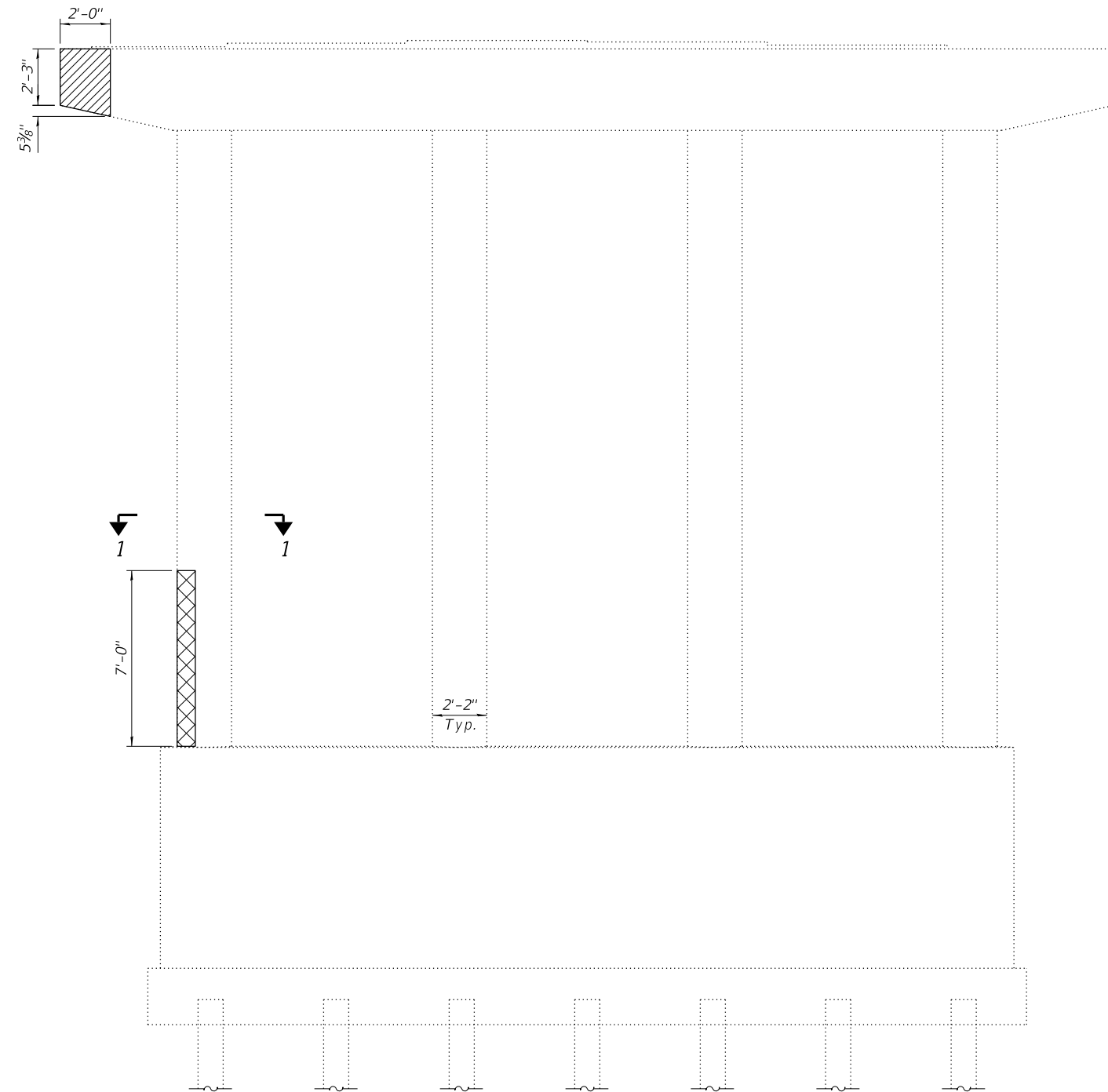
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 3 STRUCTURAL REPAIR DETAILS - NORTH FACE
STRUCTURE NO. 071-0053 (NB)

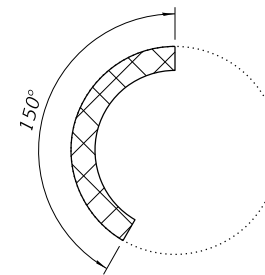
STRUCTURAL SHEET 40 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	52
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Northbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0053_NB Pier Deterioration.dgn



ELEVATION VIEW
 (Looking North)



SECTION 1-1

LEGEND



Structural Repair of Concrete
 (Depth Equal to or Less than 5 Inches,
 Fiber Wrap, and Acrylic Coat)



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

NOTE:

Areas on columns designated Structural Repair of Concrete (Depth Equal to or Less than 5 Inches) with Fiber Wrap and Acrylic Coat shall have Fiber Wrap and Acrylic Coat applied around entire circumference of column to the depth shown.

See structural sheet 44 of 45 for structure quantity.



USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

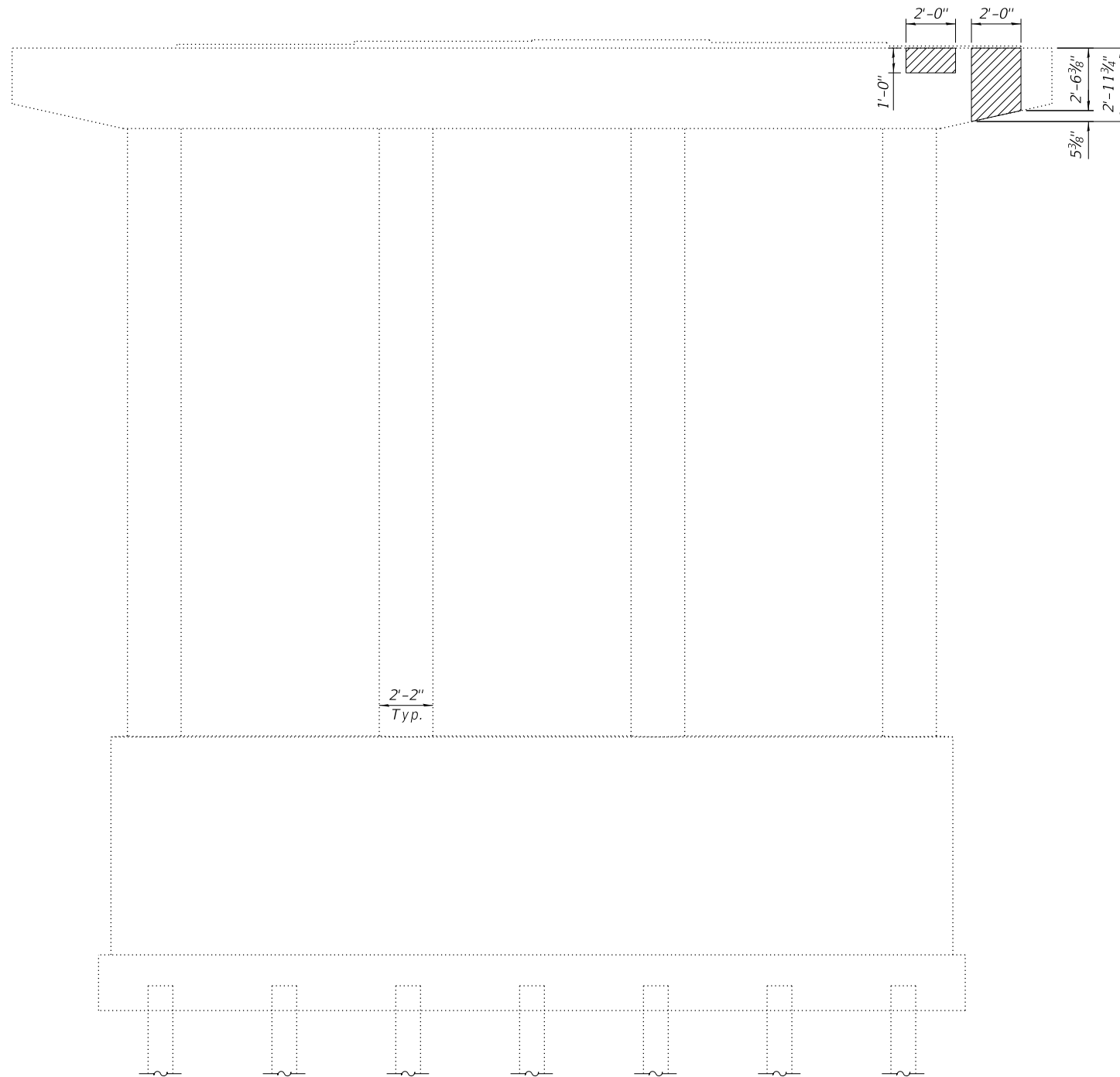
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 4 STRUCTURAL REPAIR DETAILS - SOUTH FACE
STRUCTURE NO. 071-0053 (NB)

STRUCTURAL SHEET 41 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	53
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Northbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0053_NB Pier Deterioration.dgn



ELEVATION VIEW
 (Looking South)

LEGEND



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

NOTE:

See structural sheet 44 of 45 for structure quantity.



USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

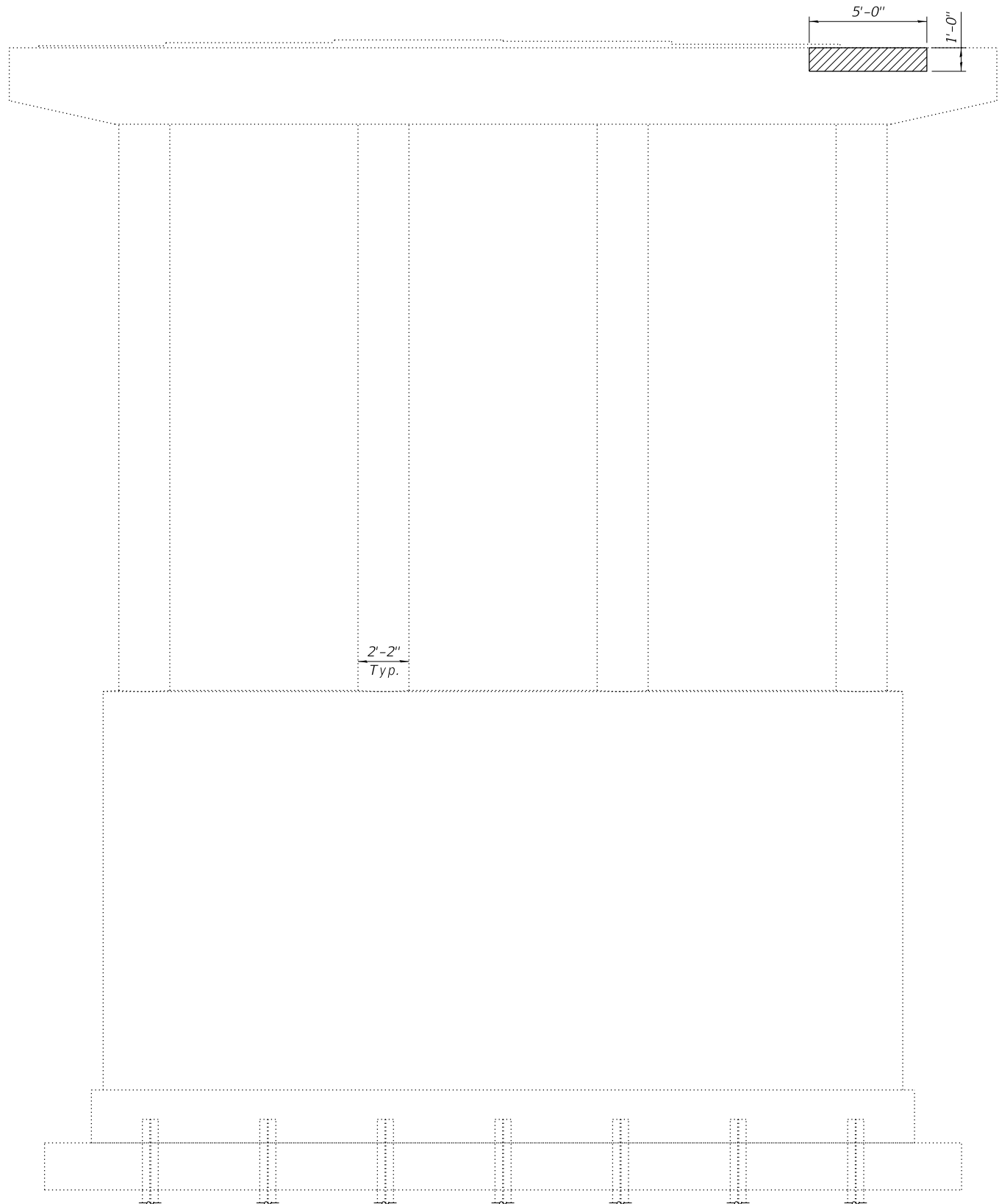
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 4 STRUCTURAL REPAIR DETAILS - NORTH FACE
STRUCTURE NO. 071-0053 (NB)

STRUCTURAL SHEET 42 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	54
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

MODEL: Northbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0053_NB Pier Deterioration.dgn
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ELEVATION VIEW
 (Looking North)

LEGEND



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

NOTE:

See structural sheet 44 of 45 for structure quantity.



**WILLET HOFMANN
 & ASSOCIATES INC**
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

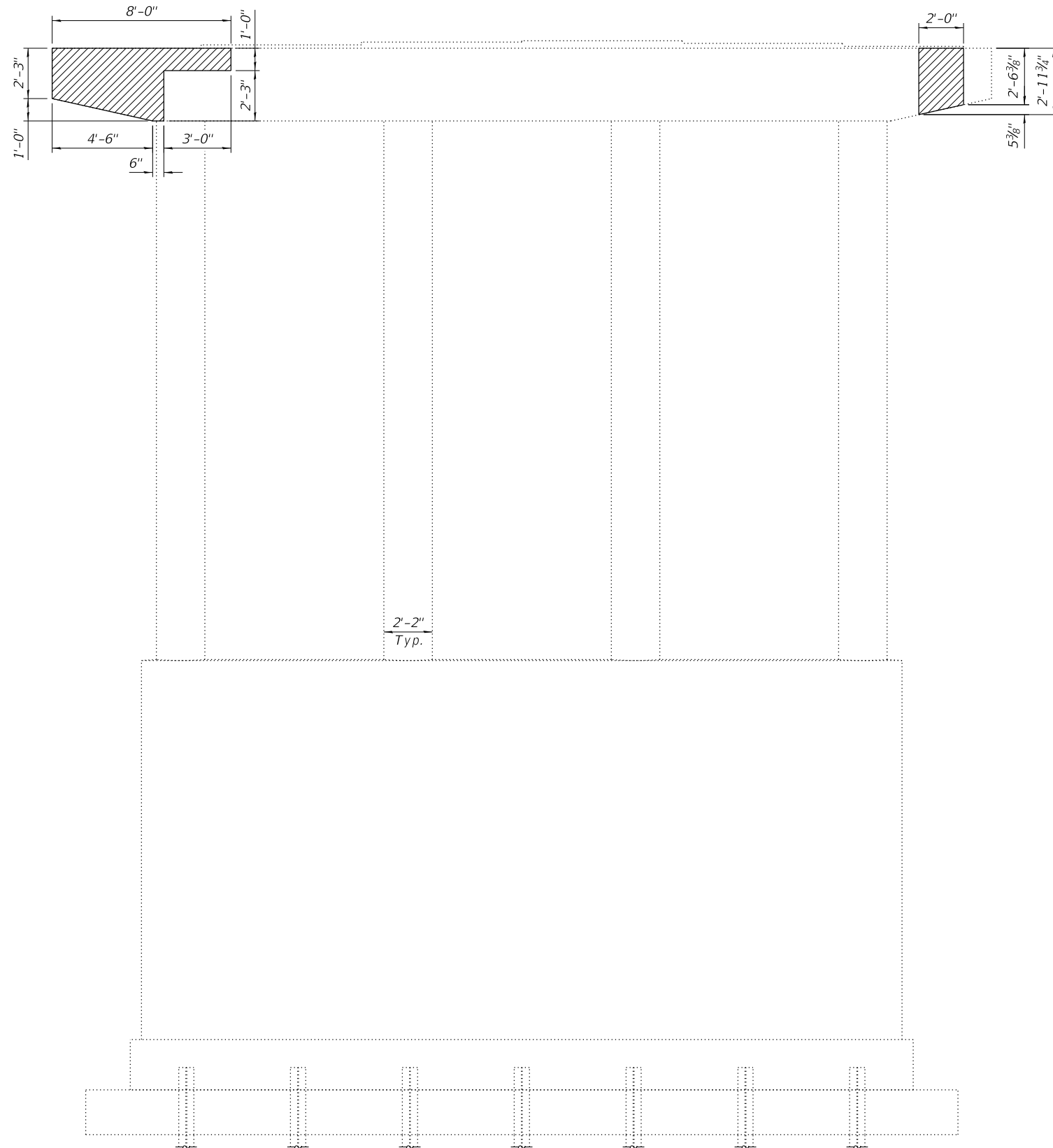
**PIER 6 STRUCTURAL REPAIR DETAILS - SOUTH FACE
 STRUCTURE NO. 071-0053 (NB)**

STRUCTURAL SHEET 43 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	55
WHA# 1427D18		CONTRACT NO. 64P04		


ILLINOIS FED. AID PROJECT

MODEL: Northbound Structure
 FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work Order #7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0053_NB Pier Deterioration.dgn



ELEVATION VIEW
(Looking North)

LEGEND

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

NORTHBOUND STRUCTURE (071-0053) - SIX TOTAL PIERS

Item	Unit	Quantity
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	451.7
* Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	45.2
Acrylic Coating	Sq. Yd.	65.0
Fiber Wrap	Sq. Ft.	584.5

*Contingency Pay Item

WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

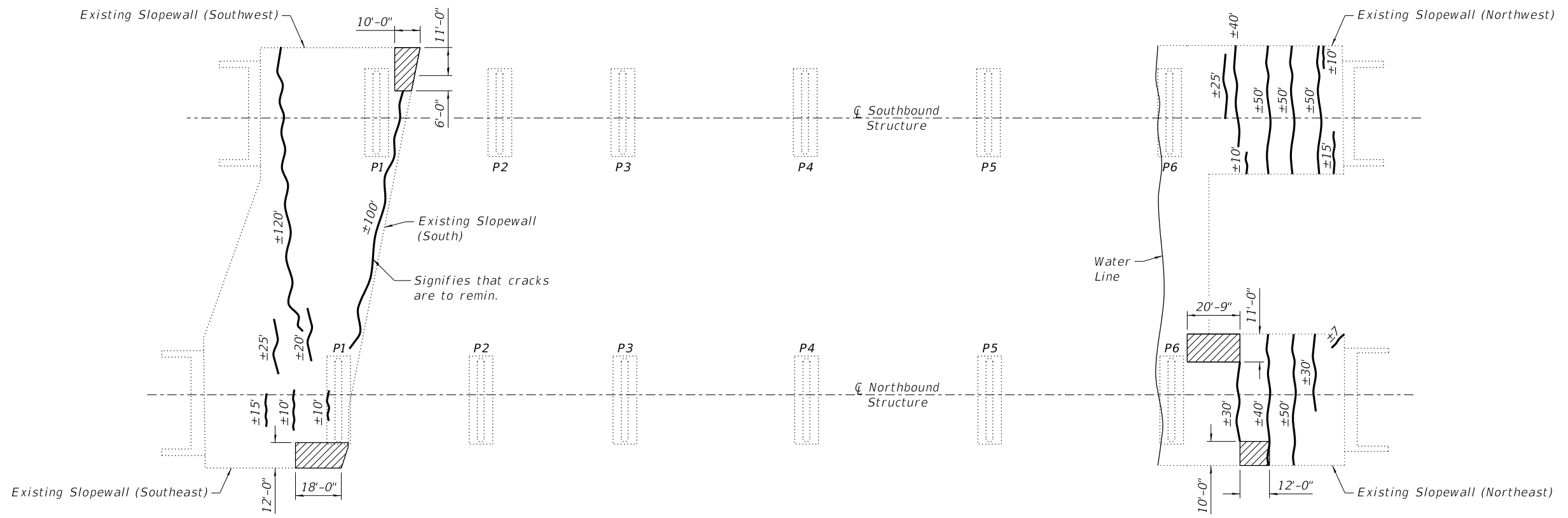
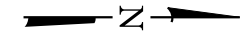
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PLOT DATE =	CHECKED - BKC	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER 6 STRUCTURAL REPAIR DETAILS - SOUTH FACE
 STRUCTURE NO. 071-0053 (NB)**

STRUCTURAL SHEET 44 OF 45 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	56
WHA# 1427D18			CONTRACT NO. 64P04	
ILLINOIS		FED. AID PROJECT		



PLAN VIEW

 = Controlled Low-Strength Material

SOUTHBOUND STRUCTURE (071-0052) - NORTH AND SOUTH SLOPEWALL

Item	Unit	Total
Controlled Low Strength Material	Cu. Yd.	15.7

NORTHBOUND STRUCTURE (071-0053) - NORTH AND SOUTH SLOPEWALL

Item	Unit	Total
Controlled Low Strength Material	Cu. Yd.	56.4

NOTE:

If necessary to fill voids Contractor shall sawcut six inch square hole in sloped wall at high side of the sloped wall to properly fill void with Controlled Low-Strength Material. Cost included in Contract Unit Price per Square Yard for Controlled Low-Strength Material.

MODEL: Slopewall Deterioration
FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\STRUCT\Work_Order_#7 - SN 071-0052 & 071-0053\CADD SHEETS\1427D18_SN 071-0052_SB-0053_NB_Slopewall Deterioration.dgn



USER NAME =	DESIGNED - EEL	REVISED -
	CHECKED - BKC	REVISED -
PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

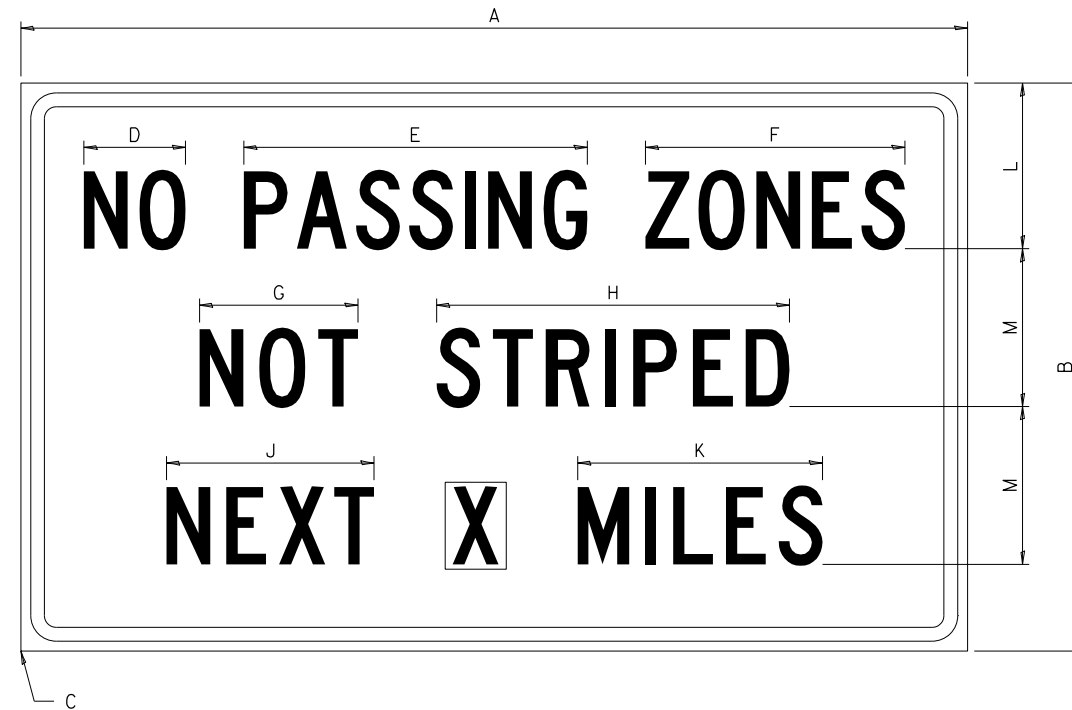
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SLOPEWALL REPAIR DETAILS
STRUCTURE NO. 071-0052 (SB) & 071-0053 (NB)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	57
WHA# 1427D18		CONTRACT NO. 64P04		
ILLINOIS		FED. AID PROJECT		

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100



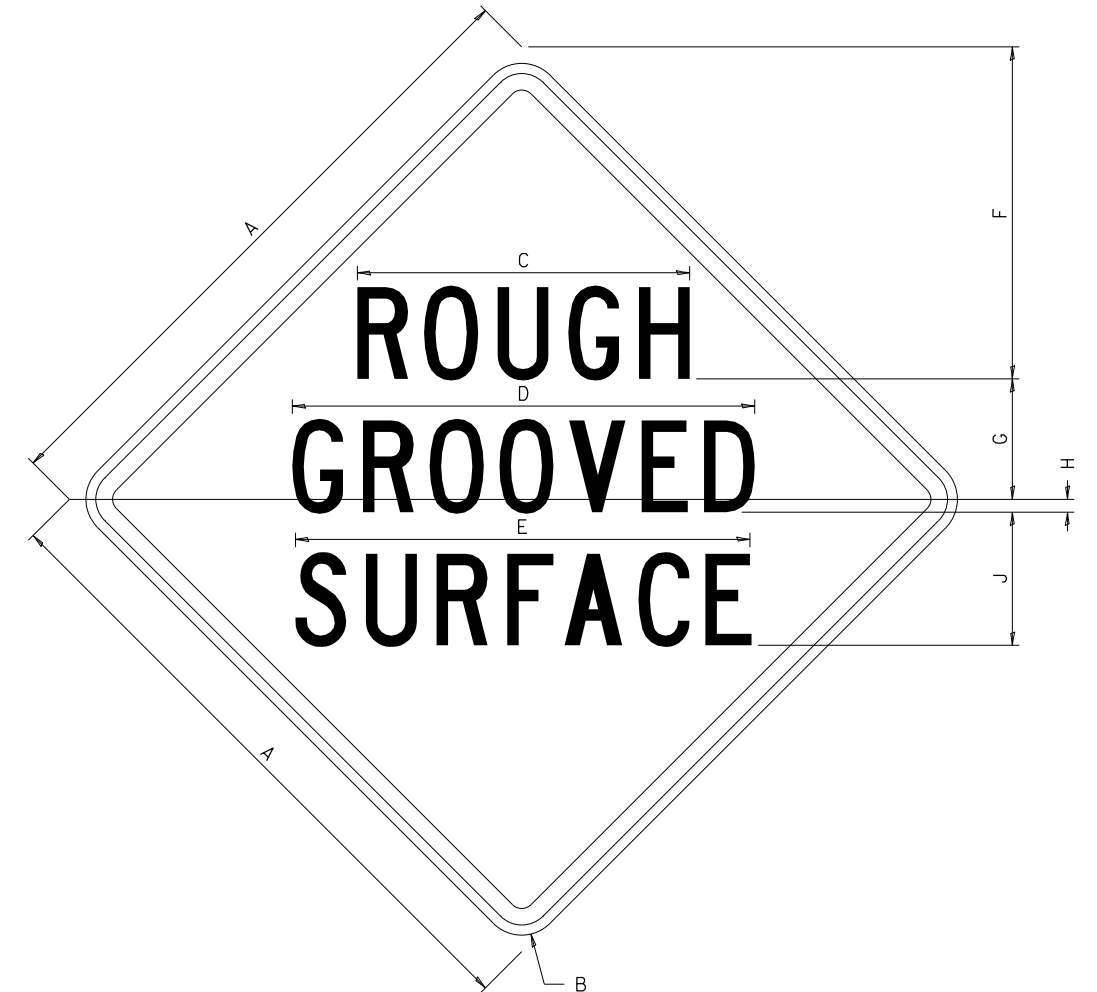
COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
60 x 36	5C	5C	5C	0.625	0.875

Sign not to scale

ILLINOIS STANDARD W8-I107



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS								
	A	B	C	D	E	F	G	H	J
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SERIES BY LINE			MARGIN	BORDER
	1	2	3		
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REGION 2 / DISTRICT 2 STANDARD
WORK ZONE SIGN DETAILS (34.1)**

SCALE N / A SHEET 1 OF 4 SHEETS STA. N / A TO STA. N / A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	58
WHA# 1427D18			CONTRACT NO. 64P04	
ILLINOIS FED. AID PROJECT				

FILE = S:\PROJECTS\2018\1427D18.IDOT\DESIGN\CAD\SHEETS\W07\1427D18-W07-District_Details.dgn



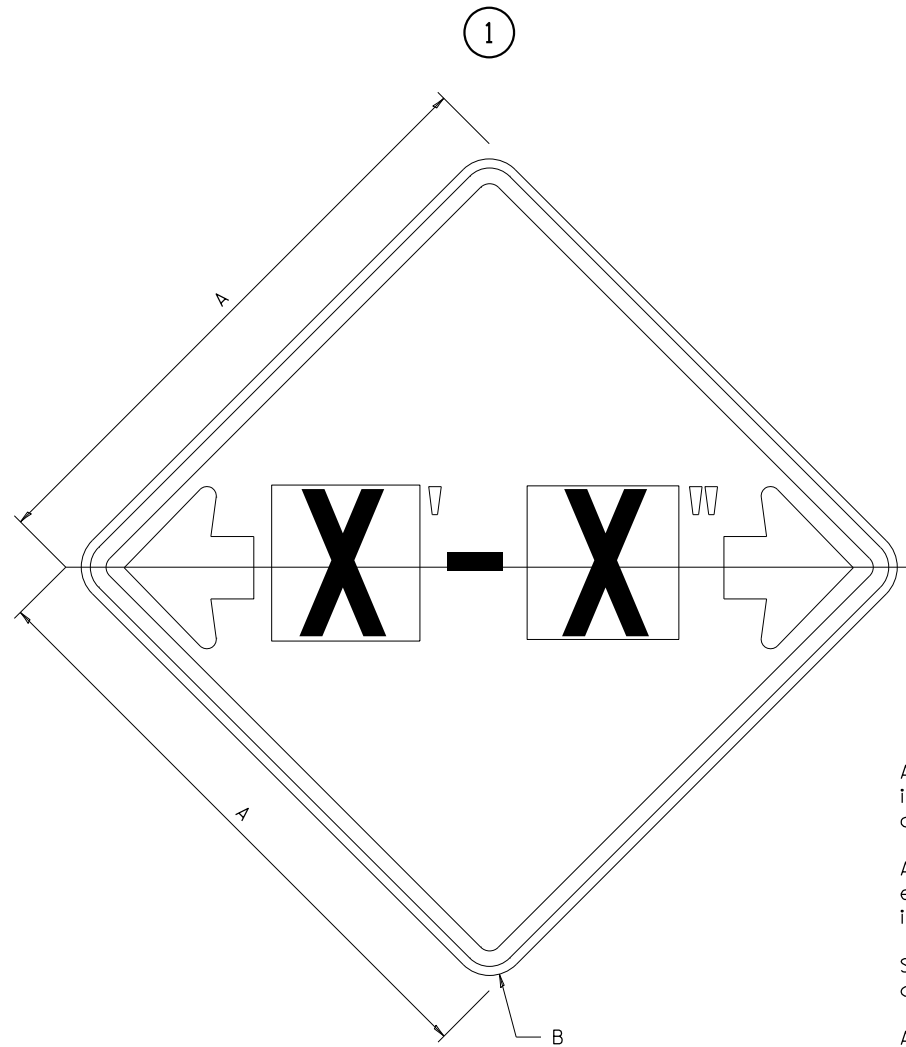
WILLET HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

USER NAME	DESIGNED	REVISIONS
greg	GFS	-
	GBG	-
	GFS	-
		-

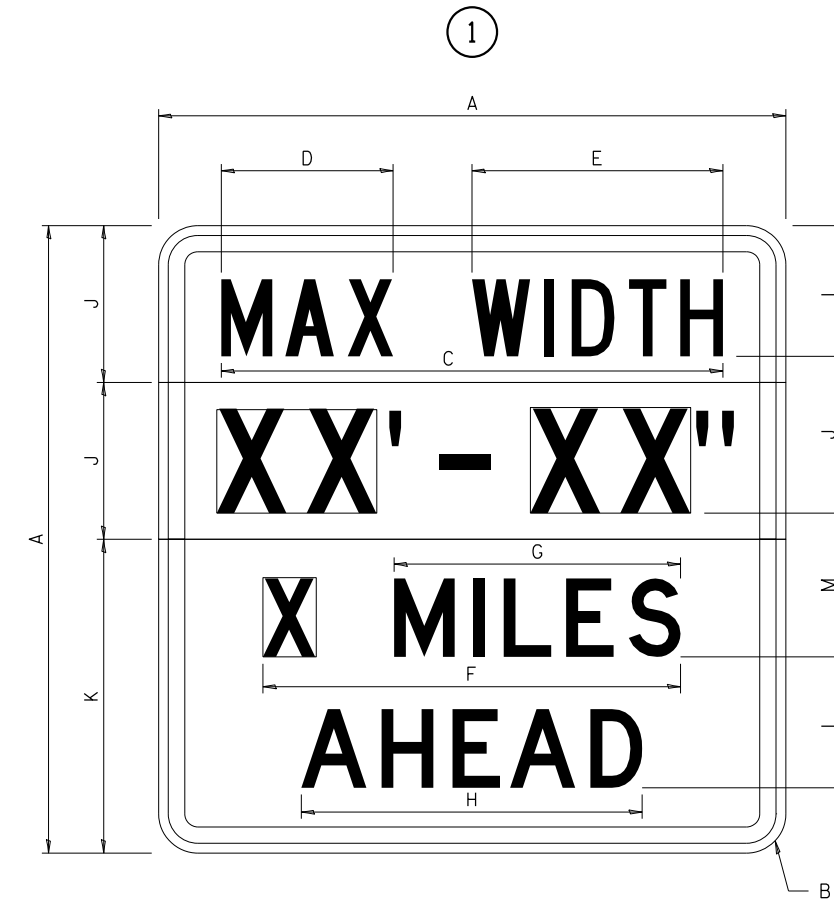
PLLOT SCALE	CHECKED	DATE	REVISIONS
24,0000' / Ft.	GFS	07/01/2020	-
			-
			-

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12-I102



ILLINOIS STANDARD W12-I103



GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS	
	A	B
48 x 48	48.00	3.00

① Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER
	1		
48 x 48	12C	0.750	1.250

Sign not to scale

COLOR LEGEND AND BORDER BACKGROUND (WIDTH) BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS											
	A	B	C	D	E	F	G	H	J	K	L	M
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	SERIES BY LINE				MARGIN	BORDER
	1	2	3	4		
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

XX'-XX" WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE

FILE = S:\PROJECTS\2018\1427018.IDOT\DESIGN\CAD\SHEETS\W07\1427018-W07-District Details.dgn



USER NAME = greg	DESIGNED - GFS	REVISED -
	DRAWN - GBG	REVISED -
PLOT SCALE = 24,0000' / Ft.	CHECKED - GFS	REVISED -
PLOT DATE = 7/27/2020	DATE - 07/01/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

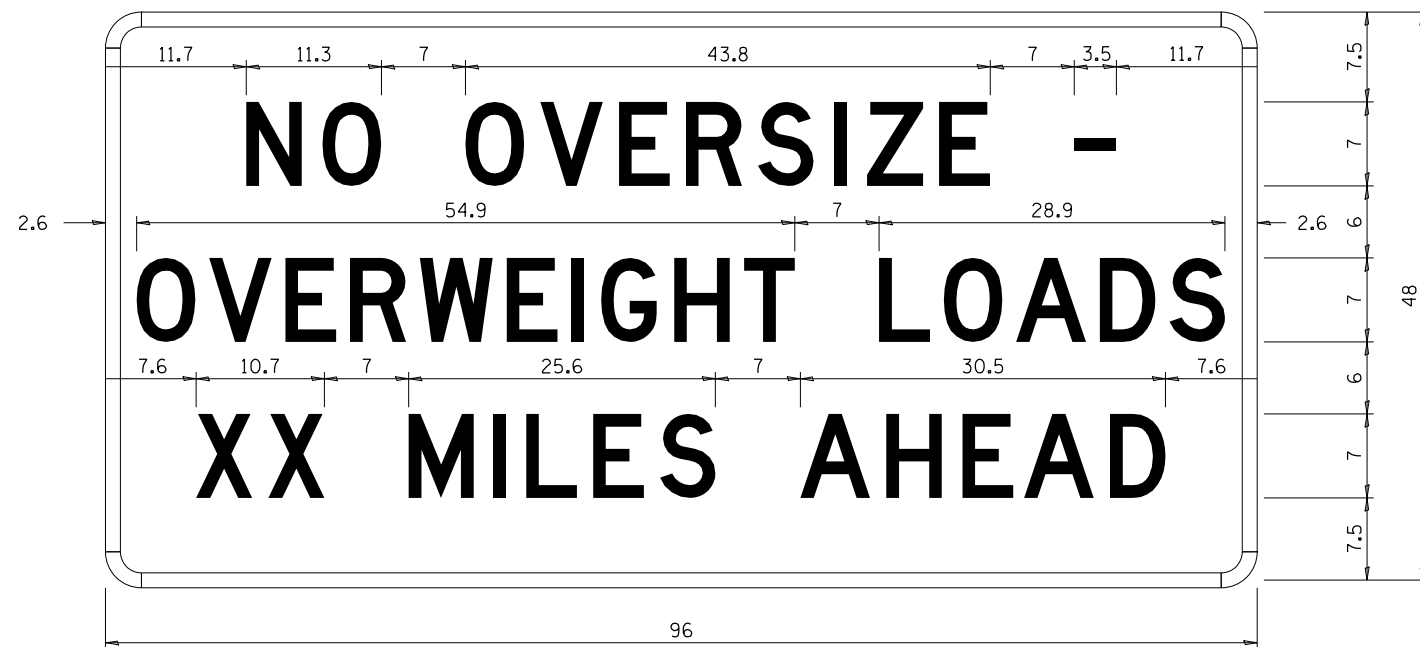
REGION 2 / DISTRICT 2 STANDARD
WORK ZONE SIGN DETAILS (34.1)

SCALE N / A SHEET 2 OF 4 SHEETS STA. N / A TO STA. N / A

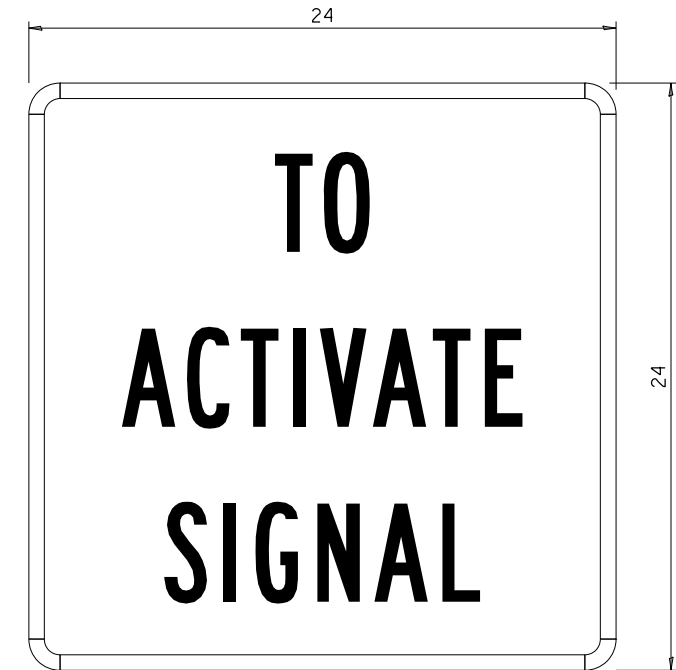
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	59
WHA# 1427018		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS



STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border;
 [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D;
 Table of letter and object lefts.

COLOR LEGEND AND BORDER BACKGROUND BLACK WHITE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	SERIES BY LINE		
	1	2	3
24 x 24	4C	4C	4C

Sign not to scale

N	O	O	V	E	R	S	I	Z	E	-
11.7	18.1	30.0	36.2	42.8	48.4	54.4	60.7	63.5	69.5	80.8

O	V	E	R	W	E	I	G	H	T	L	O	A	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7

X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.6	46.2	57.9	65.1	71.4	76.6	83.7

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

FILE = S:\PROJECTS\2018\1427018.IDOT\DESIGN\CAD\SHEETS\W07.District Details.dgn



USER NAME = greg	DESIGNED - GFS	REVISED -
	DRAWN - GBG	REVISED -
PLOT SCALE = 24,0000' / Ft.	CHECKED - GFS	REVISED -
PLOT DATE = 7/27/2020	DATE - 07/01/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD
WORK ZONE SIGN DETAILS (34.1)

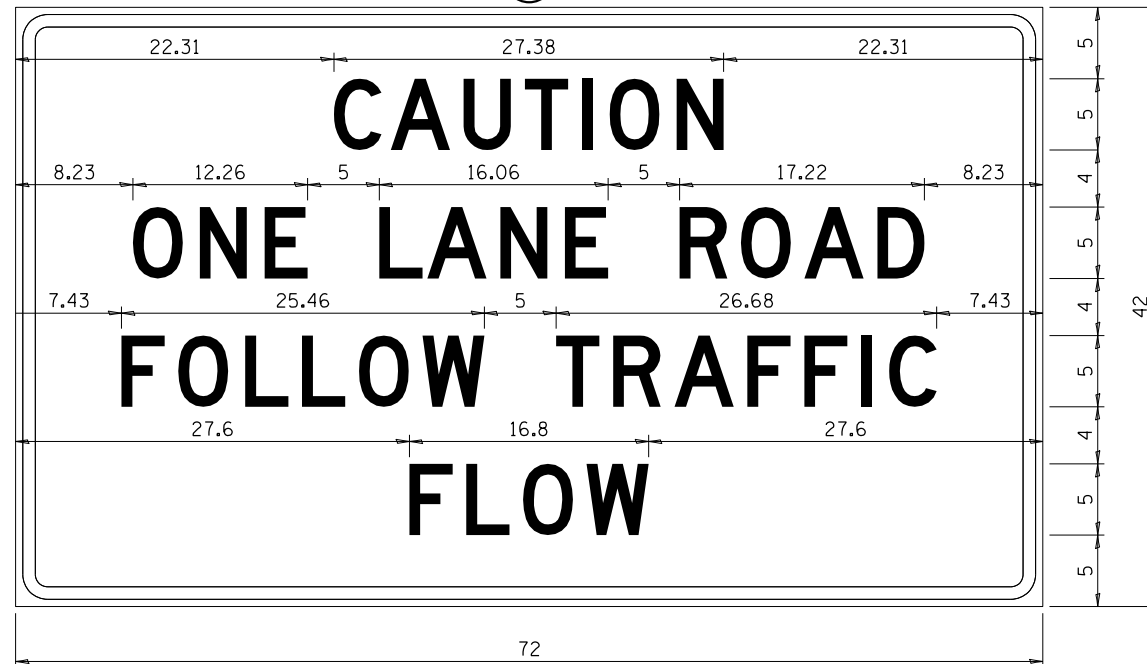
SCALE N / A SHEET 3 OF 4 SHEETS STA. N / A TO STA. N / A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	60
WHA# 1427018		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

**ENTRANCE SIGN FOR USE
WITH TEMPORARY SIGNALS**

WORK ZONE SIGN DETAILS

②



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" Indent;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

② This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31
-------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	-------

8.23	O	3.51	1.17	N	3.36	1.18	E	3.04
------	---	------	------	---	------	------	---	------

5.00	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05
------	---	------	------	---	------	------	---	------	------	---	------

5.00	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23
------	---	------	------	---	------	------	---	------	------	---	------	------

7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

5.00	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------

27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60
-------	---	------	------	---	------	------	---	------	------	---	------	-------

Sign not to scale

GENERAL NOTES

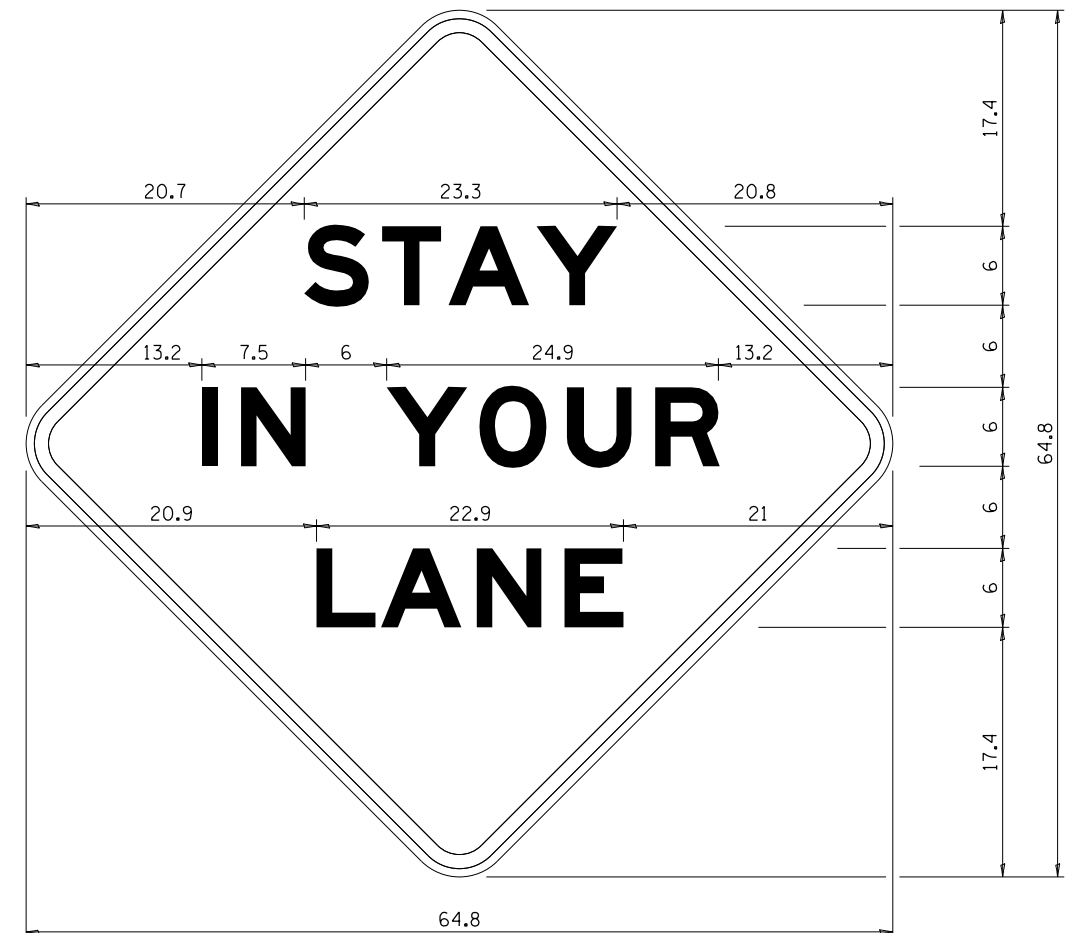
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

STAY IN YOUR LANE



COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent;
"STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S	T	A	Y
20.7	26.8	31.6	38.0

I	N	Y	O	U	R
13.2	15.9	26.7	33.9	40.5	46.8

L	A	N	E
20.9	25.8	33.1	39.4

Sign not to scale

FILE = S:\PROJECTS\2018\1427018.IDOT\DESIGN\CAD\SHEETS\W07.District_Details.dgn



USER NAME = greg	DESIGNED - GFS	REVISED -
PLLOT SCALE = 24,0000' / Ft.	DRAWN - GBG	REVISED -
PLLOT DATE = 7/27/2020	CHECKED - GFS	REVISED -
	DATE - 07/01/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

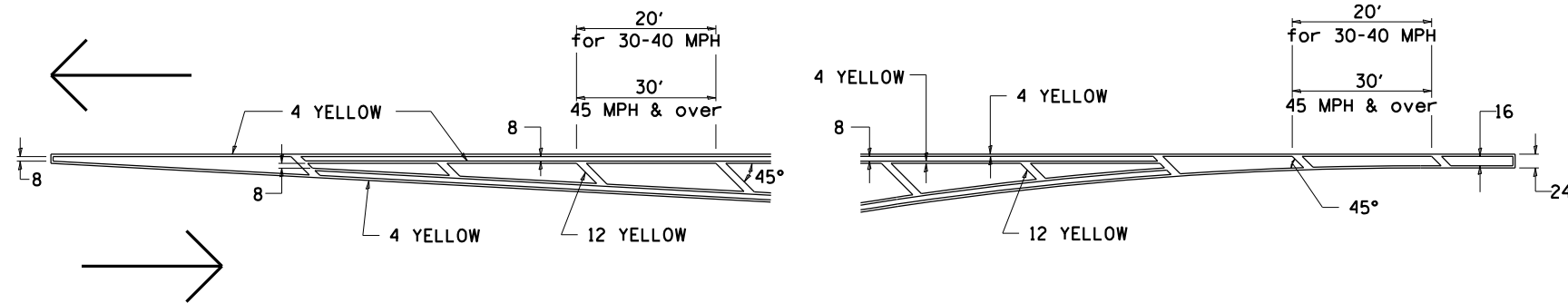
**REGION 2 / DISTRICT 2 STANDARD
WORK ZONE SIGN DETAILS (34.1)**

SCALE N / A SHEET 4 OF 4 SHEETS STA. N / A TO STA. N / A

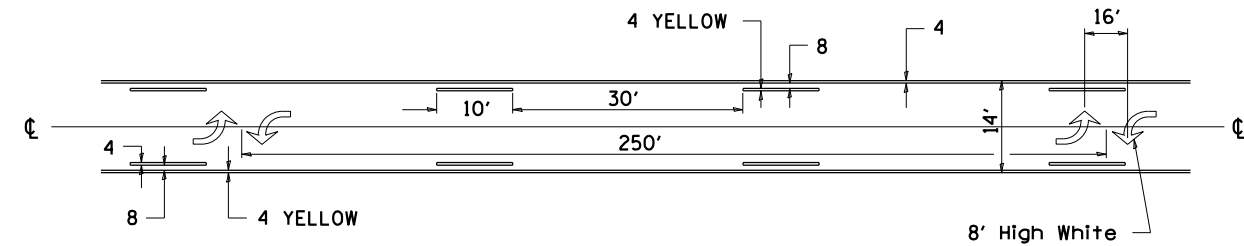
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	61
WHA# 1427018		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

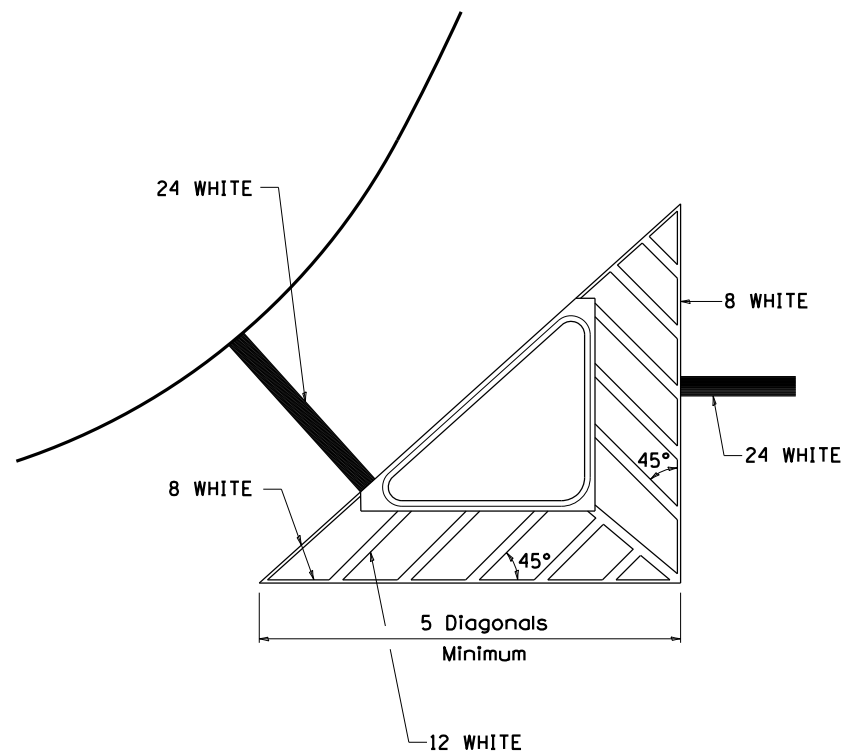


MEDIAN PAVEMENT MARKING



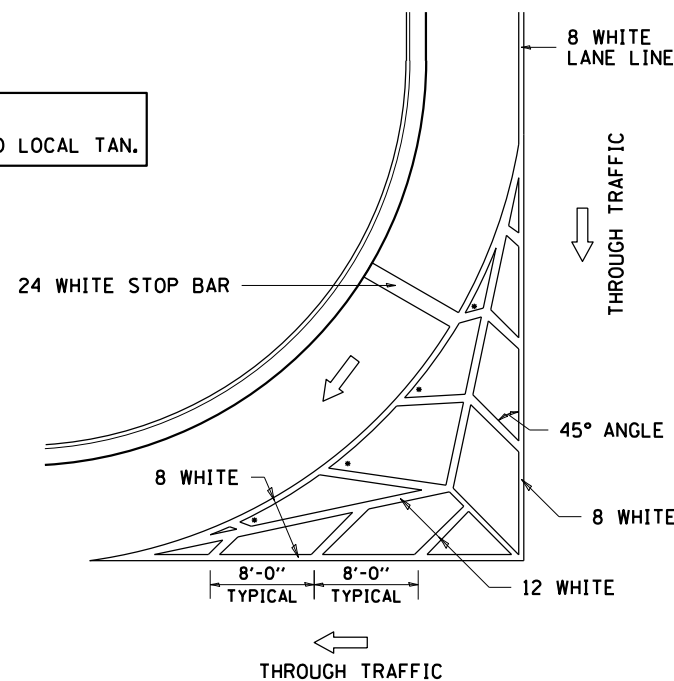
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



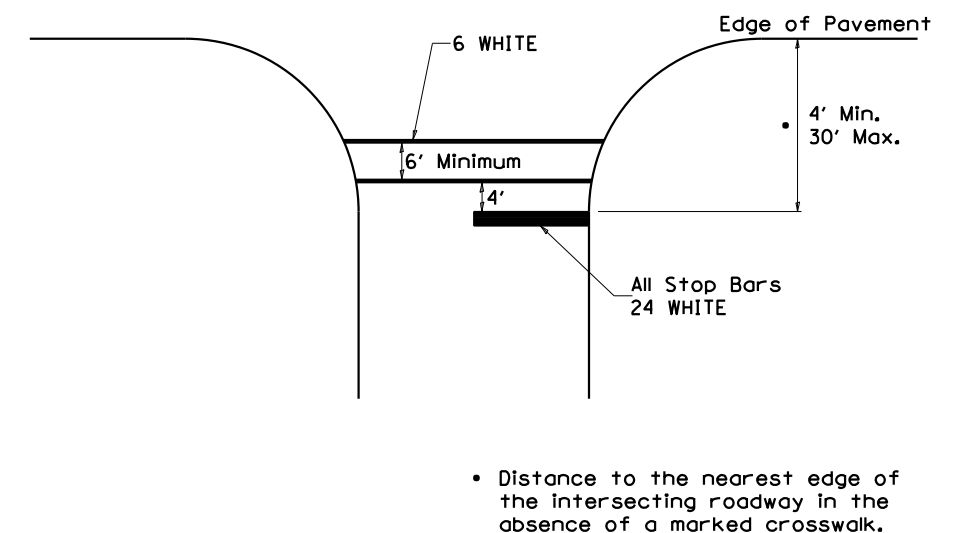
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations



• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

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WILLETT HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

USER NAME = greg
PLOT SCALE = 24,0000' / Ft.
PLOT DATE = 7/27/2020

DESIGNED - GFS
DRAWN - GBG
CHECKED - GFS
DATE - 07/01/2020

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

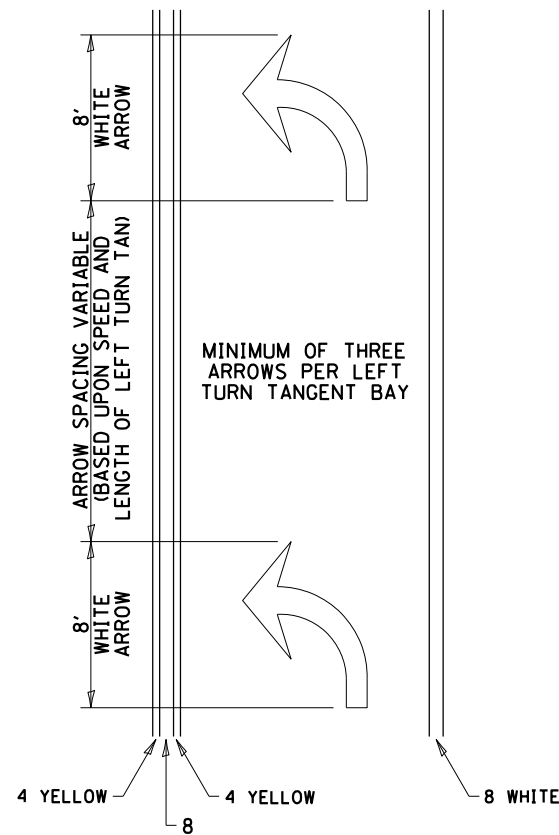
REGION 2 / DISTRICT 2 STANDARD
TYPICAL PAVEMENT MARKINGS (41.1)

SCALE N / A SHEET 1 OF 3 SHEETS STA. N / A TO STA. N / A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	62
WHA# 1427018		CONTRACT NO. 64P04		
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

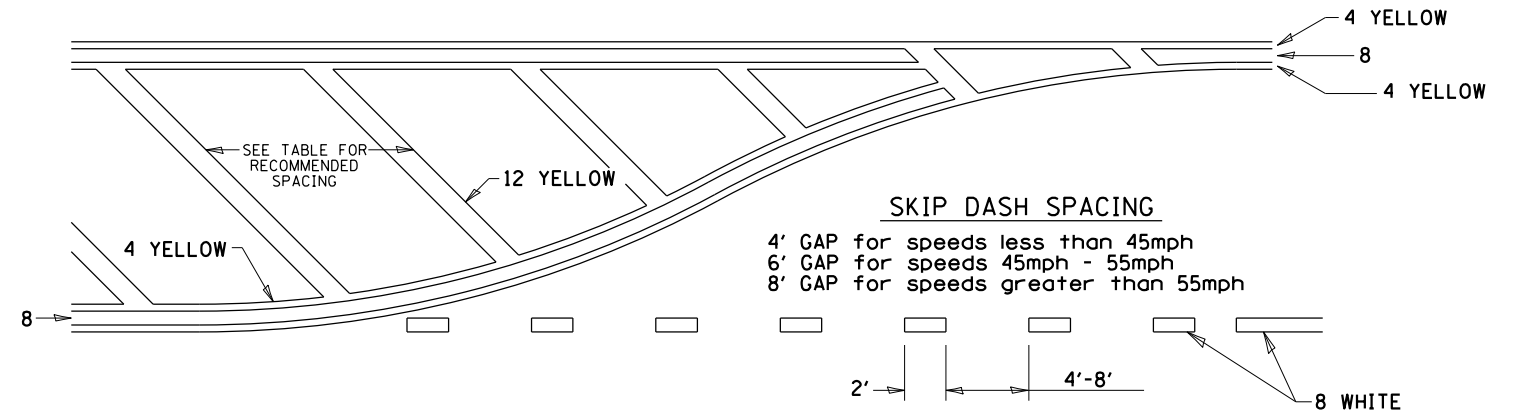
ARROW LAYOUT



- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◇ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

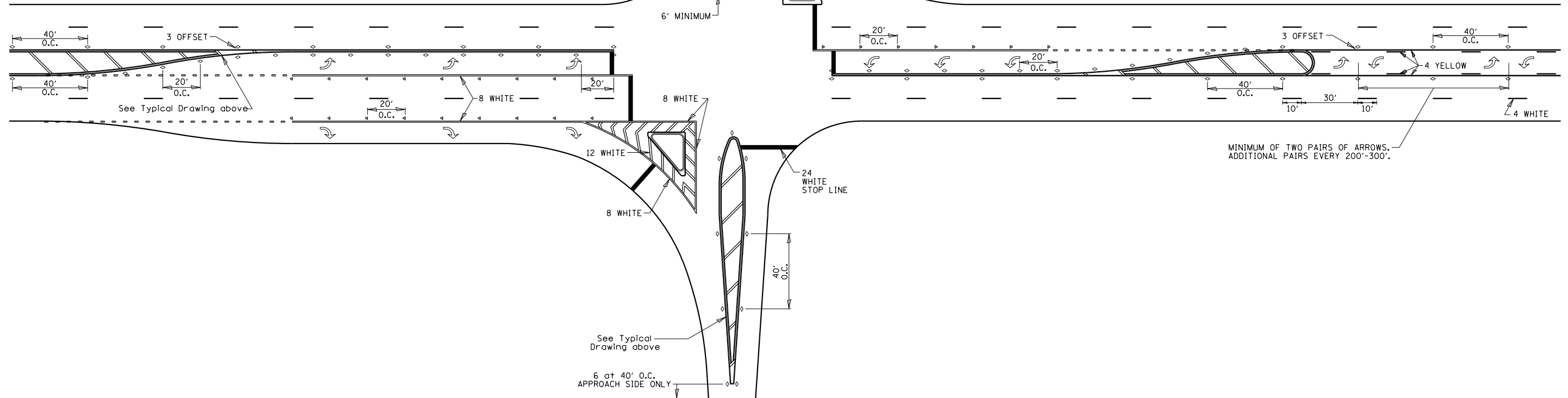
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



FILE = S:\PROJECTS\2018\1427D18.IDOT\DESIGN\CAD\SHEETS\W07.District_Details.dgn



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DATE - 07/01/2020

REVISED -
REVISED -
REVISED -
REVISED -

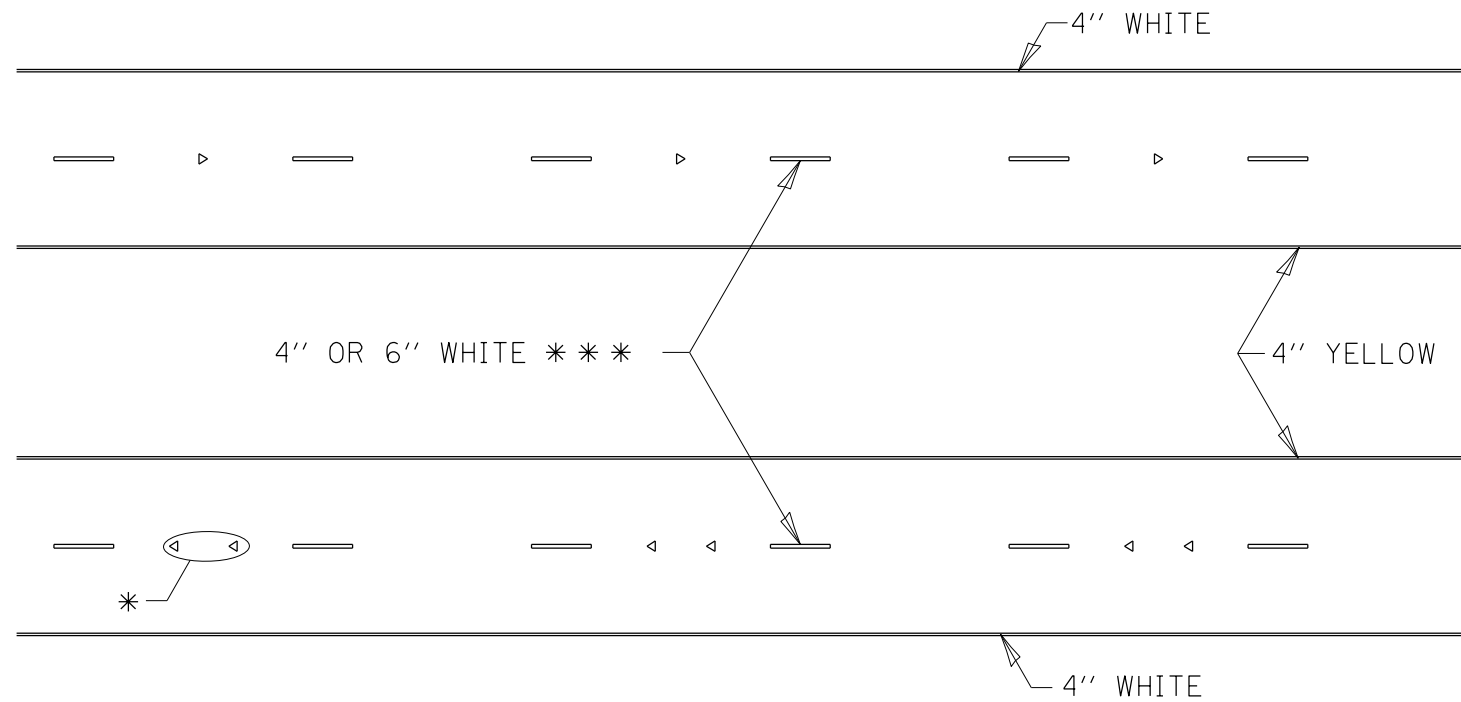
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REGION 2 / DISTRICT 2 STANDARD
TYPICAL PAVEMENT MARKINGS (41.1)**

SCALE N / A SHEET 2 OF 3 SHEETS STA. N / A TO STA. N / A

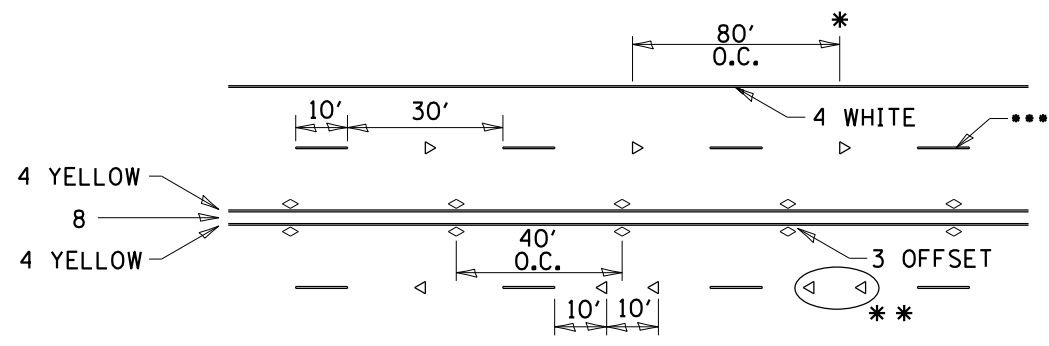
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	63
WHA# 1427D18			CONTRACT NO. 64P04	
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT > 20,000.

MULTI-LANE / DIVIDED

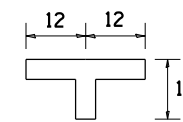


- REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- USE DOUBLE MARKERS WHEN ADT ≥ 20,000
- CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

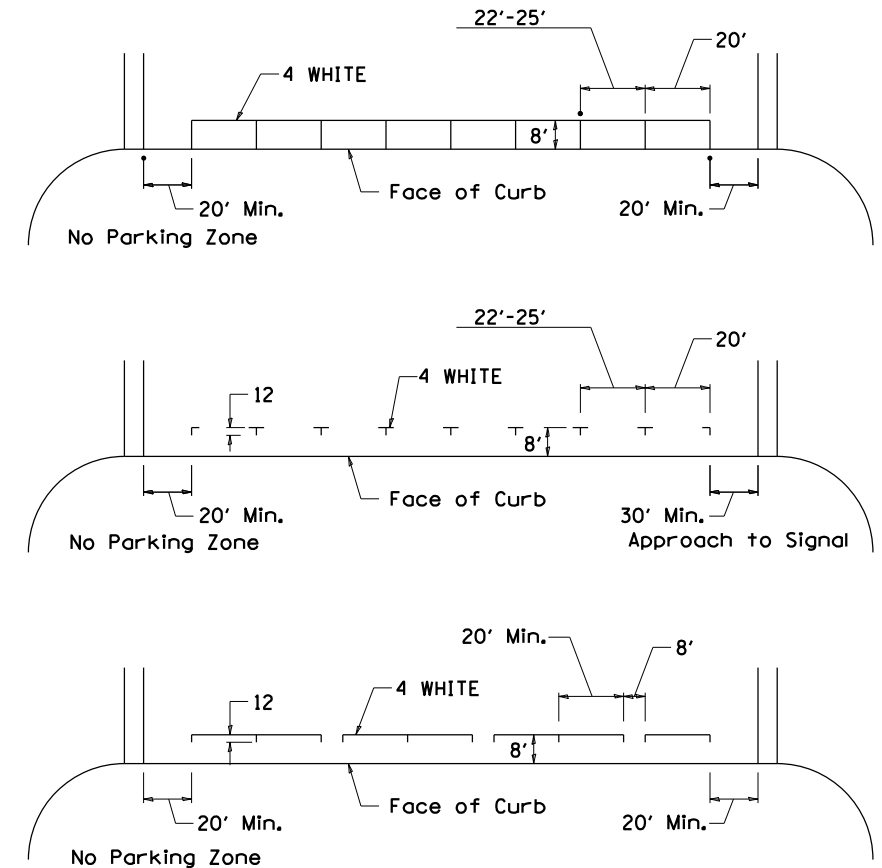
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

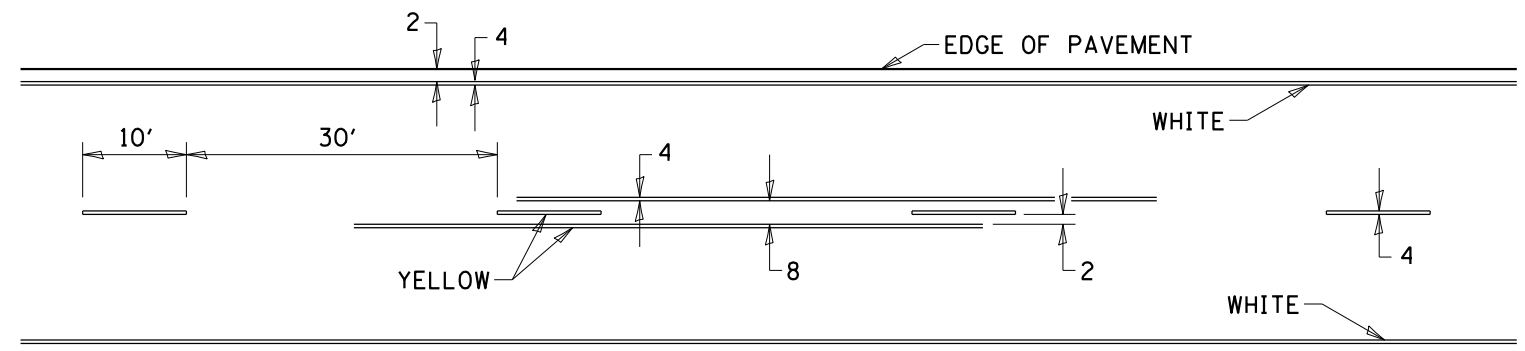
SYMBOLS



TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



FILE = S:\PROJECTS\2018\1427018.DOT\DESIGN\CAD\SHEETS\W07.District Details.dgn



USER NAME = greg
PLOT SCALE = 24,000' / Ft.
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REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD
TYPICAL PAVEMENT MARKINGS (41.1)

SCALE N / A SHEET 3 OF 3 SHEETS STA. N / A TO STA. N / A

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(141-2B-VB)BDR	OGLE	64	64
WHA# 1427018			CONTRACT NO. 64P04	
ILLINOIS FED. AID PROJECT				