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

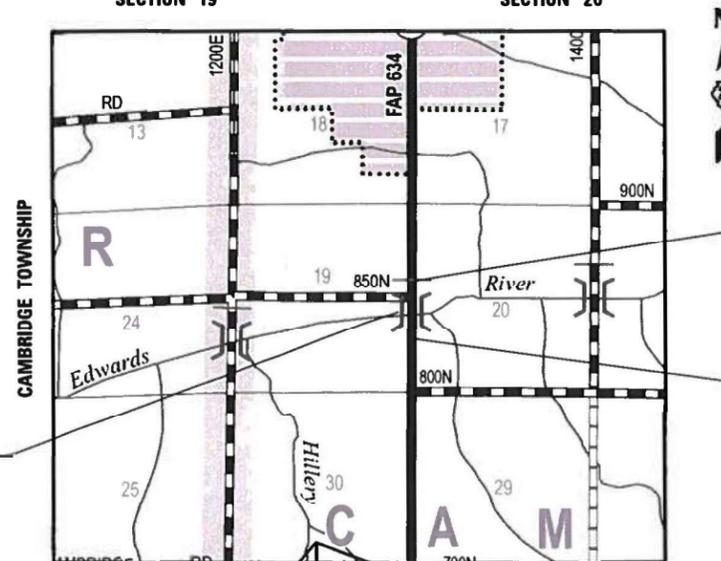
F.A.P. ROUTE 634 (IL ROUTE 82) OVER EDWARDS RIVER
SECTION (138BR-1)BDR

STP - HYQL (247)

BRIDGE REPAIR
HENRY COUNTY

C-92-075-20

TOWNSHIP 15 NORTH TOWNSHIP 15 NORTH
 RANGE 3 EAST OF 3RD P.M. AND RANGE 3 EAST OF 3RD P.M.
 SECTION 19 SECTION 20



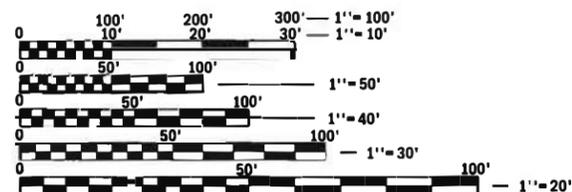
MAP NOT TO SCALE

LOCATION MAP

GROSS LENGTH = 320 FT. = 0.06 MILE
 NET LENGTH = 320 FT. = 0.06 MILE

DESIGN DESIGNATIONS

CURRENT ADT: 1550 (2010)
 DESIGN SPEED: 55 MPH
 POSTED SPEED: 55 MPH



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

EXISTING STRUCTURE

S.N. 037-0137 A THREE SPAN STEEL I-BEAM SUPERSTRUCTURE WITH OPEN ABUTMENTS AND SOLID WALL PIERS.
 BACK TO BACK LENGTH = 190'-3"
 OUT TO OUT WIDTH = 35'-2"

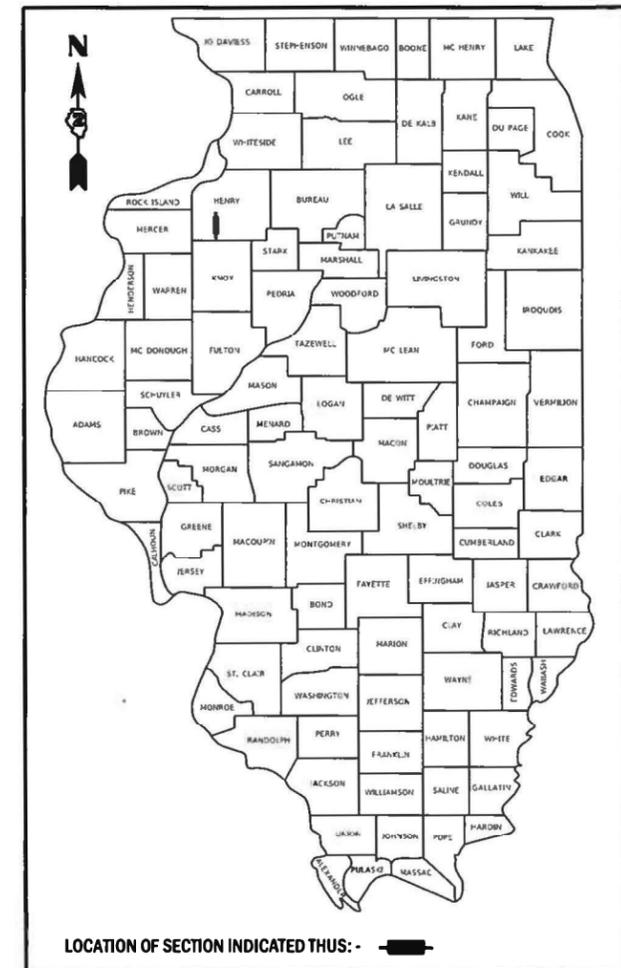
PROJECT ENGINEER GEOFF SMITH, P.E.
 PROJECT MANAGER MAHMOUD ETEMADI, P.E.

815-284-3381 (O)
 815-284-5393 (O)

CONTRACT NO. 64P51

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138BR-1)BDR	HENRY	28	01
WHA# 1427018		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYQL(247)				

D-92-055-20



LOCATION OF SECTION INDICATED THUS: -

PROJECT BEGINS
 STA. 669 + 76.94

PROJECT ENDS
 STA. 672 + 97.00



DATE: 8-4-2020
 EXPIRES 11/30/21

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct 14, 2020

[Signature]
 REGIONAL ENGINEER

December 4, 2020

[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2020

[Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
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
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 EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

THE AREA TO BE TACKED OR PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAY'S PRODUCTION, BUT NO MORE THAN FIVE DAYS IN ADVANCE OF THE PLACEMENT OF THE HMA, UNLESS APPROVED BY THE ENGINEER.

THE STRUCTURE WILL RETAIN THE SAME NUMBER: 037-0137.

PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 78001, 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 LANE AND EDGE LINES

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 MEMEBER 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

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

	1 1/2"	2"	6"
LOCATIONS(S):	IL RTE. 82	IL RTE. 82	IL RTE. 82
MIXTURE USE(S):	SURFACE	SHOULDERS	SHOULDERS
PG:	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION:	IL 9.5	IL 9.5	IL 19.0
FRICTION AGGREGATE:	C	C	
MIXTURE WEIGHT:	112 LB/SY/IN	112 LB/SY/IN	112 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A
NUMBER OF ROLLER PASSES:	*	*	*

* FOLLOW REQUIREMENTS OF SECTION 582 OF THE STANDARD SPECIFICATIONS FOR HMA SURFACING ON BRIDGE DECKS

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USER NAME = elerson	DESIGNED - GFS	REVISED -
	DRAWN - GBG	REVISED -
PLOT SCALE = 120.0000 ' /	CHECKED - GFS	REVISED -
PLOT DATE = 9/30/2020	DATE - 10/02/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGHWAY STANDARDS, GENERAL NOTES, AND HMA MIX DESIGN

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

F.A.P. RTE. 634	SECTION (138BR-1)BDR	COUNTY HENRY	TOTAL SHEETS 28	SHEET NO. 02
WHA* 1427D18		CONTRACT NO. 64P51		
ILLINOIS RED. AID PROJECT STP-HYOL(247)				

CONSTRUCTION CODE: 0013 80% FED
20% STATE

SUMMARY OF QUANTITIES

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	7.39
31102300	SUBBASE GRANULAR MATERIAL, TYPE C 6"	SQ YD	288
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	156
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	332
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	30
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	288
50102400	CONCRETE REMOVAL	CU YD	5.1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	6.1
50300300	PROTECTIVE COAT	SQ YD	942
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,150
50800515	BAR SPLICERS	EACH	24
52000110	PREFORMED JOINT STRIP SEAL	FOOT	68
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	3.5
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3
67100100	MOBILIZATION	L SUM	1

* SPECIALITY ITEM

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DAY	42
70300904	PAVEMENT MARKING TAPE, TYPE IV - 4"	FOOT	2,764
70300924	PAVEMENT MARKING TAPE, TYPE IV - 24"	FOOT	22
70400100	TEMPORARY CONCRETE BARRIER	FOOT	500
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	500
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,379
* 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	8
Z0001905	STRUCTURAL STEEL REPAIR	POUND	3,320
Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	800

* SPECIALITY ITEM

FILE = S:\PROJECTS\2018\1427D18.DOT\DESIGN\CAD\SHEETS\MO 8\1427D18-Summary of Quantities-W08.dgn



USER NAME = mikeh	DESIGNED - GFS	REVISED -
DRAWN - GBG	CHECKED - GFS	REVISED -
PLOT SCALE = 40.0000' / 1"	DATE - 10/06/2020	REVISED -
PLOT DATE = 10/6/2020		

**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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138BR-1)BDR	HENRY	28	03
WHA# 1427D18			CONTRACT NO. 64P51	
ILLINOIS FED. AID PROJECT STP-HYOL247				

SCHEDULE OF QUANTITIES

20200600 EXCAVATING AND GRADING EXISTING SHOULDER

STATION	UNIT	REMARKS
PRE-STAGE		
RT 668+43 - 670+29.8	1.87	SOUTH BOUND SHOULDER
LT 668+48 - 670+29.8	1.82	NORTH BOUND SHOULDER
RT 672+44.2 - 674+34	1.90	SOUTH BOUND SHOULDER
LT 672+44.2 - 674+24	1.80	NORTH BOUND SHOULDER
PROJECT TOTAL	7.39	

31102300 SUBBASE GRANULAR MATERIAL, TYPE C 6"

STATION	SQ YD	REMARKS
PRE-STAGE		
RT 668+43 - 670+29.8	59	SOUTH BOUND SHOULDER
LT 668+48 - 670+29.8	83	NORTH BOUND SHOULDER
RT 672+44.2 - 674+34	74	SOUTH BOUND SHOULDER
LT 672+44.2 - 674+24	72	NORTH BOUND SHOULDER
PROJECT TOTAL	288	

40600290 BITUMINOUS MATERIALS (TACK COAT)

STATION	POUND	REMARKS
STAGE I		
RT 669+76.88 - 670+29.80	39	0.05 LB/SF 1 APP ON BIT (MILLED) SOUTH BOUND APPROACH & SHOULDER
RT 672+44.20 - 672+97.13	39	SOUTH BOUND APPROACH & SHOULDER
STAGE II		
LT 669+76.88 - 670+29.80	39	NORTH BOUND APPROACH & SHOULDER
LT 672+44.20 - 672+97.13	39	NORTH BOUND APPROACH & SHOULDER
PROJECT TOTAL	156	

40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

STATION	SQ YD	REMARKS
STAGE I		
RT 669+76.88 - 670+21.88	83	SOUTH BOUND APPROACH & SHOULDER
RT 672+52.13 - 672+97.13	83	SOUTH BOUND APPROACH & SHOULDER
STAGE II		
LT 669+76.88 - 670+21.88	83	NORTH BOUND APPROACH & SHOULDER
LT 672+52.13 - 672+97.13	83	NORTH BOUND APPROACH & SHOULDER
PROJECT TOTAL	332	

40604050 HOT-MIX ASPHALT SURFACE COUSRE, IL-9.5, MIX "C", N50

STATION	TON	REMARKS
STAGE I		
RT 669+76.88 - 670+29.80	7.5	112 LB / SQ YD / IN SOUTH BOUND APPROACH & SHOULDER - 1 1/2"
RT 672+44.20 - 672+97.13	7.5	SOUTH BOUND APPROACH & SHOULDER - 1 1/2"
STAGE II		
LT 669+76.88 - 670+29.80	7.5	NORTH BOUND APPROACH & SHOULDER - 1 1/2"
LT 672+44.20 - 672+97.13	7.5	NORTH BOUND APPROACH & SHOULDER - 1 1/2"
PROJECT TOTAL	30	

48203029 HOT-MIX ASPHALT SHOULDERS, 8"

STATION	SQ YD	REMARKS
PRE-STAGE		
RT 668+43 - 670+29.8	59	SOUTH BOUND SHOULDER
LT 668+48 - 670+29.8	83	NORTH BOUND SHOULDER
RT 672+44.2 - 674+34	74	SOUTH BOUND SHOULDER
LT 672+44.2 - 674+24	72	NORTH BOUND SHOULDER
PROJECT TOTAL	288	

70107025 CHANGEABLE MESSAGE SIGN

STATION	CAL DAY	REMARKS
PRE-STAGE		
NORTHBOUND	21	2 WEEKS PRIOR AND 1 WEEK AFTER START OF CONSTRUCTION
SOUTHBOUND	21	
PROJECT TOTAL	42	

70300904* PAVEMENT MARKING TAPE, TYPE IV - 4"

STATION	FOOT	REMARKS
STAGE I - NORTH BOUND LANE		
RT 667+25 - LT 669+00	176	SOLID - WHITE
LT 668+50 - LT 674+22	572	SOLID - WHITE
LT 669+00 - LT 673+75	475	SOLID - WHITE
LT 673+75 - RT 675+25	151	SOLID - WHITE
STAGE II - SOUTH BOUND LANE		
LT 667+50 - RT 669+00	151	SOLID - WHITE
RT 668+45 - RT 674+32	588	SOLID - WHITE
RT 669+00 - RT 673+75	475	SOLID - WHITE
RT 673+75 - LT 675+50	176	SOLID - WHITE
PROJECT TOTAL	2,764	

70300924* PAVEMENT MARKING TAPE, TYPE IV - 24"

STATION	FOOT	REMARKS
PRE-STAGE		
RT 666+90	11	SOUTH BOUND LANE NORTH BOUND LANE
LT 675+85	11	
PROJECT TOTAL	22	

70400100 TEMPORARY CONCRETE BARRIER

STATION	FOOT	REMARKS
STAGE I		
RT 668+87.6 - LT 669+50	62.5	NORTH BOUND NORTH BOUND NORTH BOUND
LT 669+50 - LT 673+25	375	
LT 673+25 - RT 673+87.4	62.5	
PROJECT TOTAL	500	

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

STATION	FOOT	REMARKS
STAGE II		
LT 668+87.6 - RT 669+50	62.5	SOUTH BOUND SOUTH BOUND SOUTH BOUND
RT 669+50 - RT 673+25	375	
RT 673+25 - LT 673+87.4	62.5	
PROJECT TOTAL	500	

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

STATION	EACH	REMARKS
STAGE I		
RT 668+87.6	1	STAGE I - NORTH BOUND STAGE I - NORTH BOUND
RT 673+87.4	1	
PROJECT TOTAL	2	

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

STATION	EACH	REMARKS
STAGE II		
LT 668+87.6	1	STAGE II - SOUTH BOUND STAGE II - SOUTH BOUND
LT 673+87.4	1	
PROJECT TOTAL	2	

78001110 PAINT PAVEMENT MARKING - LINE 4"

STATION	FOOT	REMARKS
LT 668+50 - LT 674+22	572	E. EDGE LINE - WHITE CENTERLINE SKIP-DASH - YELLOW W. EDGE LINE - WHITE
666+90 - 675+85	220	
RT 668+45 - RT 674+32	587	
PROJECT TOTAL	1,379	

78200010 BARRIER WALL REFLECTORS, TYPE B

STATION	EACH	REMARKS
STAGE I		
LT 670+41.88 - 672+32.13	4	EXISTING BRIDGE PARAPET
STAGE II		
RT 670+41.88 - 672+32.13	4	EXISTING BRIDGE PARAPET
PROJECT TOTAL	8	

X0327980* PAVEMENT MARKING REMOVAL - WATER BLASTING

STATION	SQ FT	REMARKS
STAGE I - NORTH BOUND LANE		
LT 668+50 - LT 674+22	191	E. EDGE LINE, 4" SOLID CENTER LINE, SKIP-DASH 4" SOLID CENTER LINE, SKIP-DASH 4" SOLID
666+90 - 669+76.8	23	
672+97.1 - 675+85	23	
STAGE II - SOUTH BOUND LANE		
RT 668+45 - RT 669+76.8	44	W. EDGE LINE, 4" SOLID W. EDGE LINE, 4" SOLID
RT 672+97.1 - RT 674+32	45	
PROJECT TOTAL	326	

X7030005* TEMPORARY PAVEMENT MARKING REMOVAL

STATION	SQ FT	REMARKS
STAGE I - NORTH BOUND LANE		
RT 667+25 - LT 669+00	59	4" SOLID - EDGE LINE 4" SOLID - EDGE LINE 4" SOLID - EDGE LINE 4" SOLID - EDGE LINE
LT 668+50 - LT 674+22	191	
LT 669+00 - LT 673+75	159	
LT 673+75 - RT 675+25	51	
STAGE II - SOUTH BOUND LANE		
LT 667+50 - RT 669+00	51	4" SOLID - EDGE LINE 4" SOLID - EDGE LINE 4" SOLID - EDGE LINE 4" SOLID - EDGE LINE 24" SOLID - STOP BAR 24" SOLID - STOP BAR
RT 668+45 - RT 674+32	196	
RT 669+00 - RT 673+75	159	
RT 673+75 - LT 675+50	59	
RT 666+90	22	
LT 675+85	22	
PROJECT TOTAL	969	

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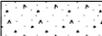
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PLOT DATE = 10/6/2020	DATE - 10/06/2020	REVISED -

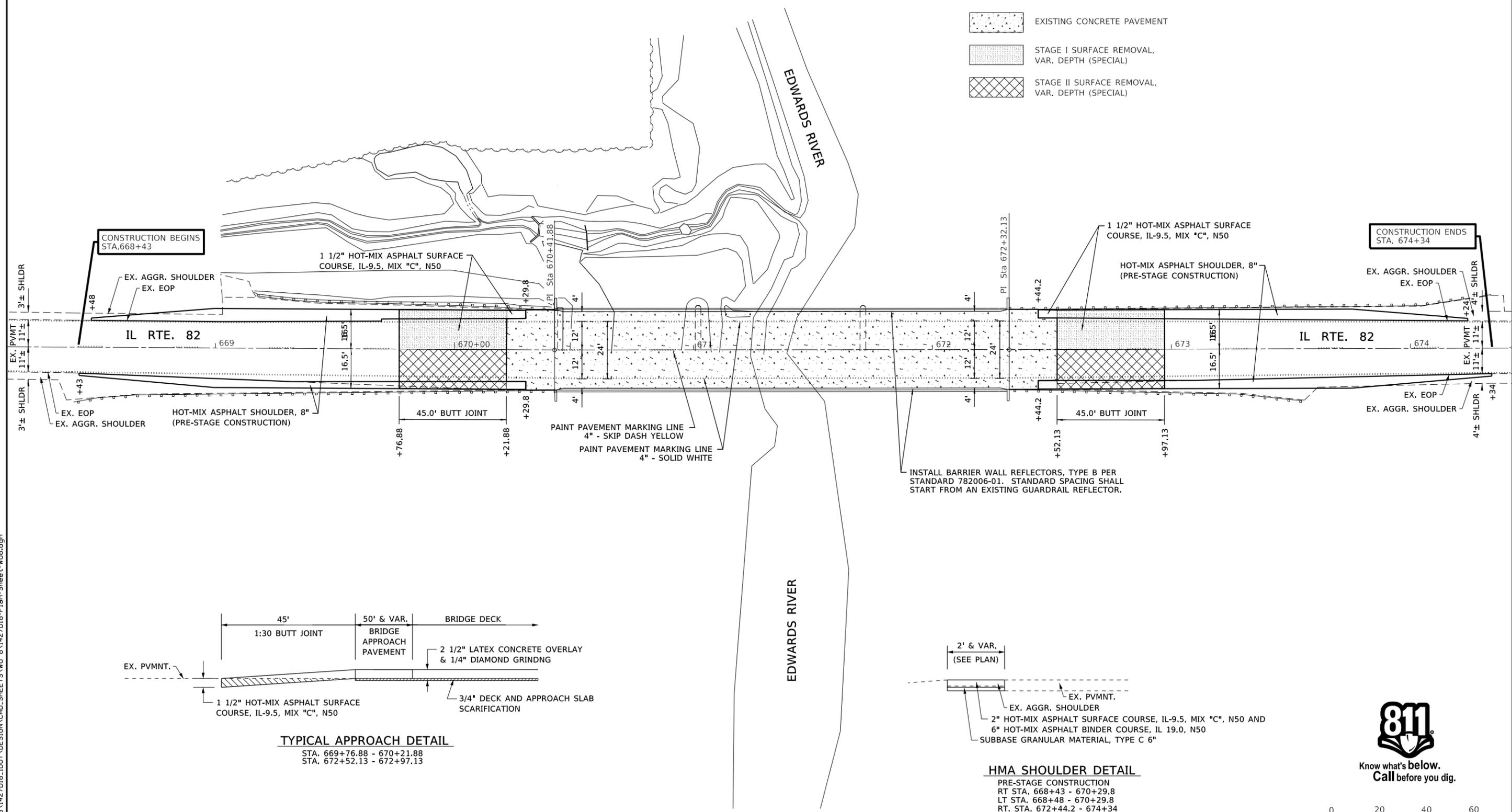
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138BR-1)BDR	HENRY	28	05
WHA# 1427018		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYOL(247)				

LEGEND

-  EXISTING CONCRETE PAVEMENT
-  STAGE I SURFACE REMOVAL, VAR. DEPTH (SPECIAL)
-  STAGE II SURFACE REMOVAL, VAR. DEPTH (SPECIAL)



CONSTRUCTION BEGINS STA. 668+43

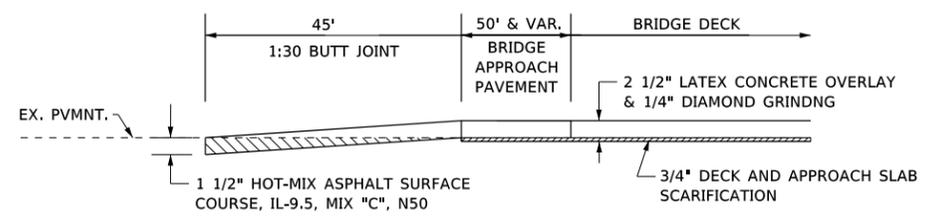
CONSTRUCTION ENDS STA. 674+34

HOT-MIX ASPHALT SHOULDER, 8" (PRE-STAGE CONSTRUCTION)

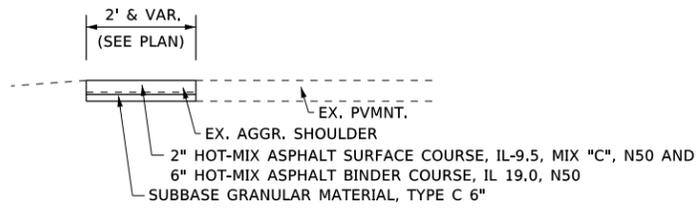
1 1/2" HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50
HOT-MIX ASPHALT SHOULDER, 8" (PRE-STAGE CONSTRUCTION)

PAINT PAVEMENT MARKING LINE
4" - SKIP DASH YELLOW
PAINT PAVEMENT MARKING LINE
4" - SOLID WHITE

INSTALL BARRIER WALL REFLECTORS, TYPE B PER STANDARD 782006-01. STANDARD SPACING SHALL START FROM AN EXISTING GUARDRAIL REFLECTOR.



TYPICAL APPROACH DETAIL
STA. 669+76.88 - 670+21.88
STA. 672+52.13 - 672+97.13



HMA SHOULDER DETAIL
PRE-STAGE CONSTRUCTION
RT STA. 668+43 - 670+29.8
LT STA. 668+48 - 670+29.8
RT. STA. 672+44.2 - 674+34
LT. STA. 672+44.2 - 674+24



Know what's below.
Call before you dig.



FILE = S:\PROJECTS\2018\1427D18.DOT\DESIGN\CAD\SHEETS\WO 8\1427D18-Plan-Sheet-W08.dgn



USER NAME = mikeh	DESIGNED - GFS	REVISED -
DRAWN - DLB	REVISIONS -	
PLOT SCALE = 40.0000' / 1"	CHECKED - GFS	REVISED -
PLOT DATE = 10/6/2020	DATE - 10/06/2020	REVISED -

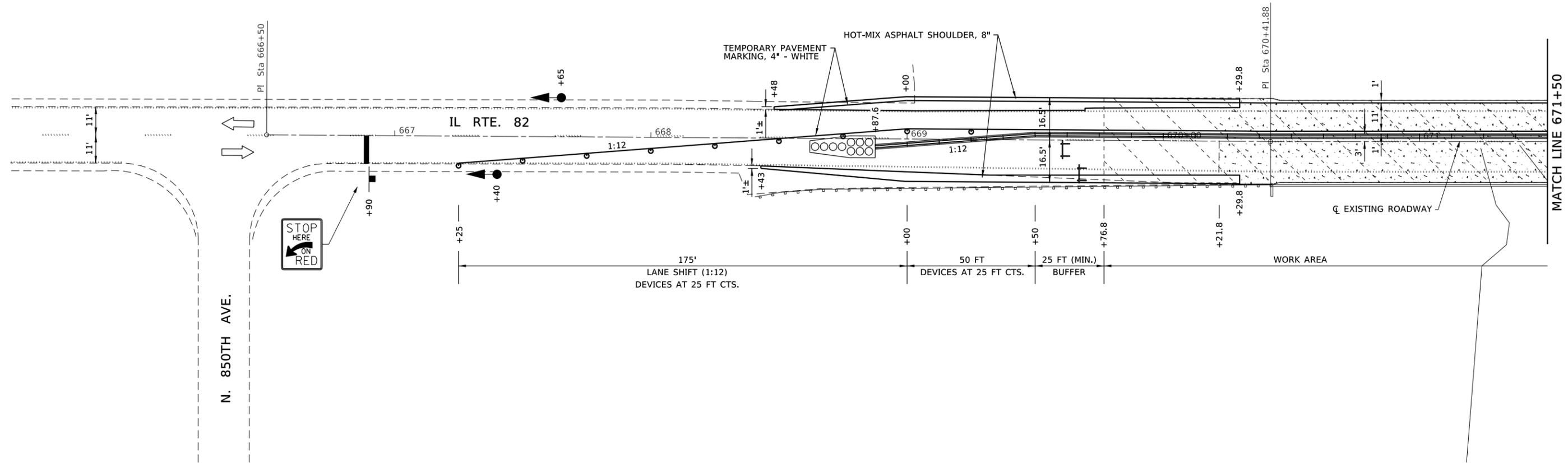
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL AND IMPROVEMENT PLAN

SCALE 1" = 20'-0" SHEET 1 OF 1 SHEETS STA. N / A TO STA. N / A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138BR-1)BDR	HENRY	28	06
WHA# 1427D18		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYOL(247)				

STAGE I CONSTRUCTION AND BARRIER LAYOUT



PRE-STAGE CONSTRUCTION NOTES:

- 1) CONSTRUCT HOT-MIX ASPHALT SHOULDER, 8" USING STANDARDS 701201-05 AND 701901-08
 RT. STA. 668+43 TO STA. 670+29.8
 LT. STA. 668+48 TO STA. 670+29.8
 RT. STA. 672+44.2 TO STA. 674+34
 LT. STA. 672+44.2 TO STA. 674+24

STAGE I CONSTRUCTION NOTES:

- 1) REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKINGS. INSTALL STANDARD 701321-18 USING STANDARDS 701201-05 AND 701901-08. SHIFT TRAFFIC TO NORTHBOUND LANE FOR BOTH NORTH AND SOUTH BOUND TRAFFIC ON IL RTE. 82.
- 2) PERFORM STAGE I PORTION OF STRUCTURE AND DECK REPAIRS, (SEE STAGE CONSTRUCTION DETAILS AND SEQUENCE SHEET IN BRIDGE PLANS).
- 3) PERFORM STAGE I PORTION OF BUTT JOINT SURFACE REMOVAL AND PLACE STAGE I PORTION OF 1 1/2" HMA SURFACE AND HMA SHOULDER.
- 4) REMOVE STAGE I TEMPORARY PAVEMENT MARKINGS, REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS, PLACE STAGE II TEMPORARY PAVEMENT MARKINGS, AND RELOCATE TEMPORARY CONCRETE BARRIER TO STAGE II ALIGNMENT USING STANDARDS 701301-04, AND 701901-08.
- 5) SHIFT TRAFFIC TO THE SOUTHBOUND LANE FOR BOTH NORTH AND SOUTH BOUND TRAFFIC ON IL RTE. 82.

GENERAL NOTES:

- 1) AT EACH END OF PROJECT, CONTRACTOR SHALL PLACE ADVANCE WARNING SIGNS, TEMPORARY RUMBLE STRIPS ALONG THE APPROACH LANE PRIOR TO STOP BAR, AND TEMPORARY TRAFFIC SIGNAL PER IDOT STANDARD 701321.
- 2) SIGNALS AT REST SHALL BE GREEN SOUTHBOUND.

LEGEND	
	IMPACT ATTENUATORS
	TEMPORARY CONC. BARRIERS (F SHAPE)
	DRUM WITH STEADY BURNING LIGHT
	DRUM
	TYPE III BARRICADE WITH FLASHING LIGHTS
	DETECTOR LOOPS
	TRAFFIC SIGNAL
	24" STOP BAR - WHITE

SCALE IN FEET

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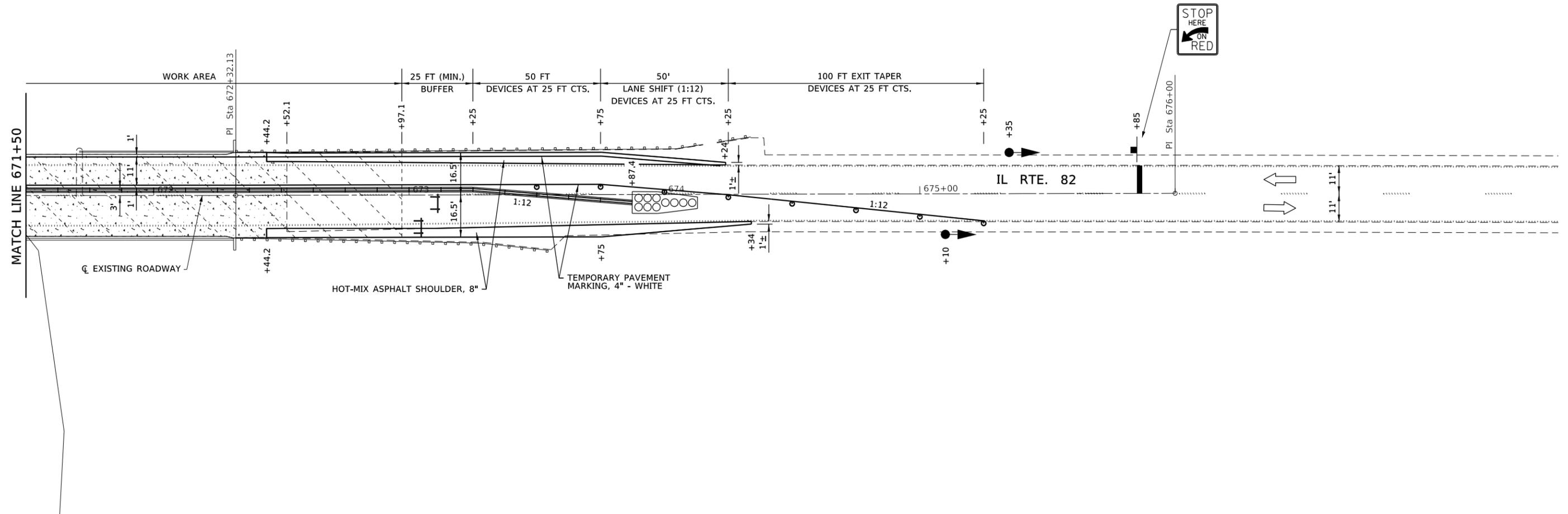
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	DATE - 10/06/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLAN - STAGE I			
SCALE 1 : 20	SHEET 1 OF 2 SHEETS	STA. XXX+XX TO STA. XXX+XX	

F.A.P. RTE. 634	SECTION (138BR-1)BDR	COUNTY HENRY	TOTAL SHEETS 28	SHEET NO. 07
WHA# 1427D18		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYOL(247)				

STAGE I CONSTRUCTION AND BARRIER LAYOUT



PRE-STAGE CONSTRUCTION NOTES:

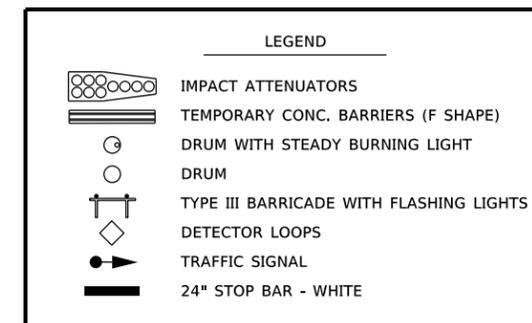
- 1) CONSTRUCT HOT-MIX ASPHALT SHOULDER, 8" USING STANDARDS 701201-05 AND 701901-08
 RT. STA. 668+43 TO STA. 670+29.8
 LT. STA. 668+48 TO STA. 670+29.8
 RT. STA. 672+44.2 TO STA. 674+34
 LT. STA. 672+44.2 TO STA. 674+24

STAGE I CONSTRUCTION NOTES:

- 1) REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKINGS. INSTALL STANDARD 701321-18 USING STANDARDS 701201-05 AND 701901-08. SHIFT TRAFFIC TO NORTHBOUND LANE FOR BOTH NORTH AND SOUTH BOUND TRAFFIC ON IL RTE. 82.
- 2) PERFORM STAGE I PORTION OF STRUCTURE AND DECK REPAIRS, (SEE STAGE CONSTRUCTION DETAILS AND SEQUENCE SHEET IN BRIDGE PLANS).
- 3) PERFORM STAGE I PORTION OF BUTT JOINT SURFACE REMOVAL AND PLACE STAGE I PORTION OF 1 1/2" HMA SURFACE AND HMA SHOULDER.
- 4) REMOVE STAGE I TEMPORARY PAVEMENT MARKINGS, REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS, PLACE STAGE II TEMPORARY PAVEMENT MARKINGS, AND RELOCATE TEMPORARY CONCRETE BARRIER TO STAGE II ALIGNMENT USING STANDARDS 701301-04, AND 701901-08.
- 5) SHIFT TRAFFIC TO THE SOUTHBOUND LANE FOR BOTH NORTH AND SOUTH BOUND TRAFFIC ON IL RTE. 82.

GENERAL NOTES:

- 1) AT EACH END OF PROJECT, CONTRACTOR SHALL PLACE ADVANCE WARNING SIGNS, TEMPORARY RUMBLE STRIPS ALONG THE APPROACH LANE PRIOR TO STOP BAR, AND TEMPORARY TRAFFIC SIGNAL PER IDOT STANDARD 701321.
- 2) SIGNALS AT REST SHALL BE GREEN SOUTHBOUND.



SCALE IN FEET

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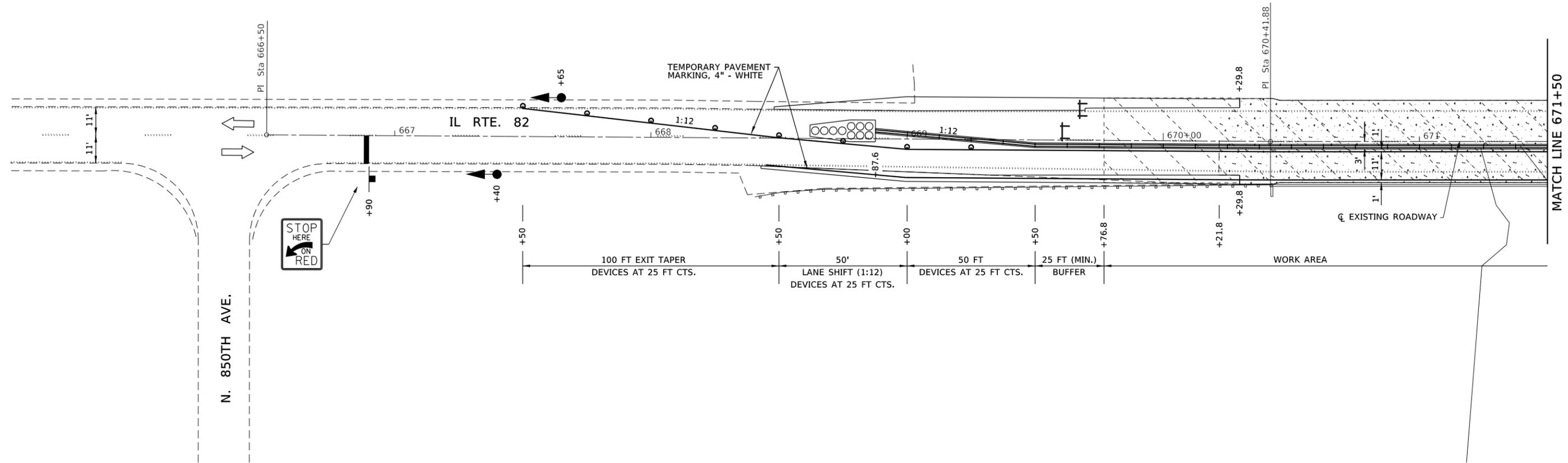
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN - STAGE I

SCALE 1 : 20 SHEET 2 OF 2 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138BR-1)BDR	HENRY	28	08
WHA# 1427D18			CONTRACT NO. 64P51	
ILLINOIS FED. AID PROJECT STP-HYOL(247)				

STAGE II CONSTRUCTION AND BARRIER LAYOUT



STAGE II CONSTRUCTION NOTES:

- 1) PERFORM STAGE II PORTION OF STRUCTURE AND DECK REPAIRS, (SEE STAGE CONSTRUCTION DETAILS AND SEQUENCE SHEET IN BRIDGE PLANS).
- 2) PERFORM STAGE II PORTION OF BUTT JOINT SURFACE REMOVAL AND PLACE STAGE II PORTION OF 1 1/2" HMA SURFACE AND HMA SHOULDER.
- 3) REMOVE STAGE II CONCRETE BARRIER, TRAFFIC CONTROL DEVICES, AND TEMPORARY PAVEMENT MARKINGS USING STANDARDS 701301-04, AND 701901-08.
- 4) PERFORM PAVEMENT STRIPING WORK USING STANDARDS 701301-04 AND 701901-08.

GENERAL NOTES:

- 1) AT EACH END OF PROJECT, CONTRACTOR SHALL PLACE ADVANCE WARNING SIGNS, TEMPORARY RUMBLE STRIPS ALONG THE APPROACH LANE PRIOR TO STOP BAR, AND TEMPORARY TRAFFIC SIGNAL PER IDOT STANDARD 701321.
- 2) SIGNALS AT REST SHALL BE GREEN SOUTHBOUND.

LEGEND	
	IMPACT ATTENUATORS
	TEMPORARY CONC. BARRIERS (F SHAPE)
	DRUM WITH STEADY BURNING LIGHT
	DRUM
	TYPE III BARRICADE WITH FLASHING LIGHTS
	DETECTOR LOOPS
	TRAFFIC SIGNAL
	24" STOP BAR - WHITE

SCALE IN FEET

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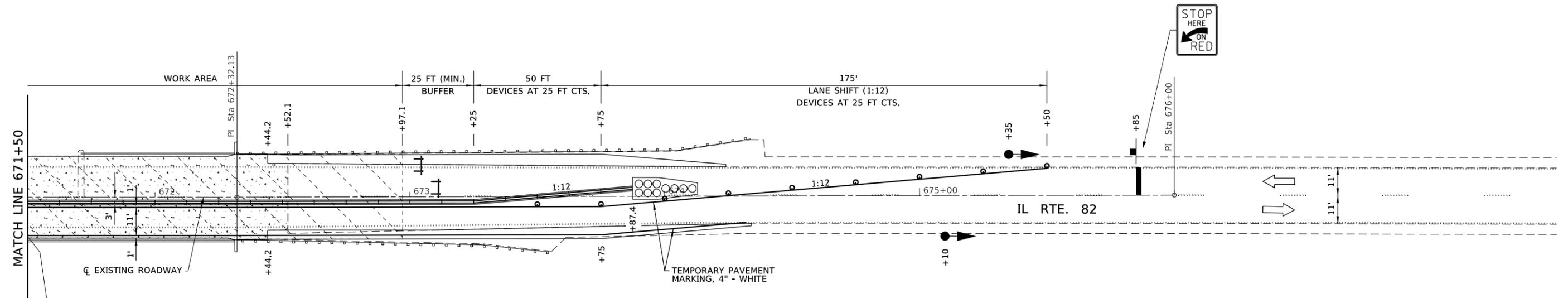
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN - STAGE II

SCALE 1 : 20 SHEET 1 OF 2 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138BR-1)BDR	HENRY	28	09
WHA# 1427D18		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYL(247)				

STAGE II CONSTRUCTION AND BARRIER LAYOUT

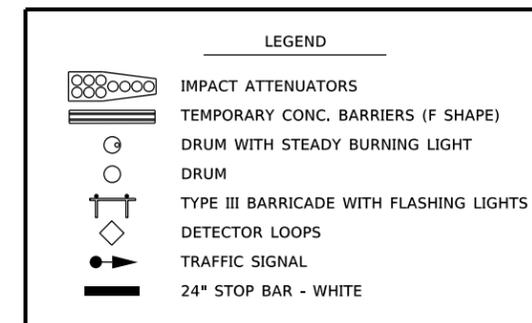


STAGE II CONSTRUCTION NOTES:

- 1) PERFORM STAGE II PORTION OF STRUCTURE AND DECK REPAIRS, (SEE STAGE CONSTRUCTION DETAILS AND SEQUENCE SHEET IN BRIDGE PLANS).
- 2) PERFORM STAGE II PORTION OF BUTT JOINT SURFACE REMOVAL AND PLACE STAGE II PORTION OF 1 1/2" HMA SURFACE AND HMA SHOULDER.
- 3) REMOVE STAGE II CONCRETE BARRIER, TRAFFIC CONTROL DEVICES, AND TEMPORARY PAVEMENT MARKINGS USING STANDARDS 701301-04, AND 701901-08.
- 4) PERFORM PAVEMENT STRIPING WORK USING STANDARDS 701301-04 AND 701901-08.

GENERAL NOTES:

- 1) AT EACH END OF PROJECT, CONTRACTOR SHALL PLACE ADVANCE WARNING SIGNS, TEMPORARY RUMBLE STRIPS ALONG THE APPROACH LANE PRIOR TO STOP BAR, AND TEMPORARY TRAFFIC SIGNAL PER IDOT STANDARD 701321.
- 2) SIGNALS AT REST SHALL BE GREEN SOUTHBOUND.



SCALE IN FEET

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

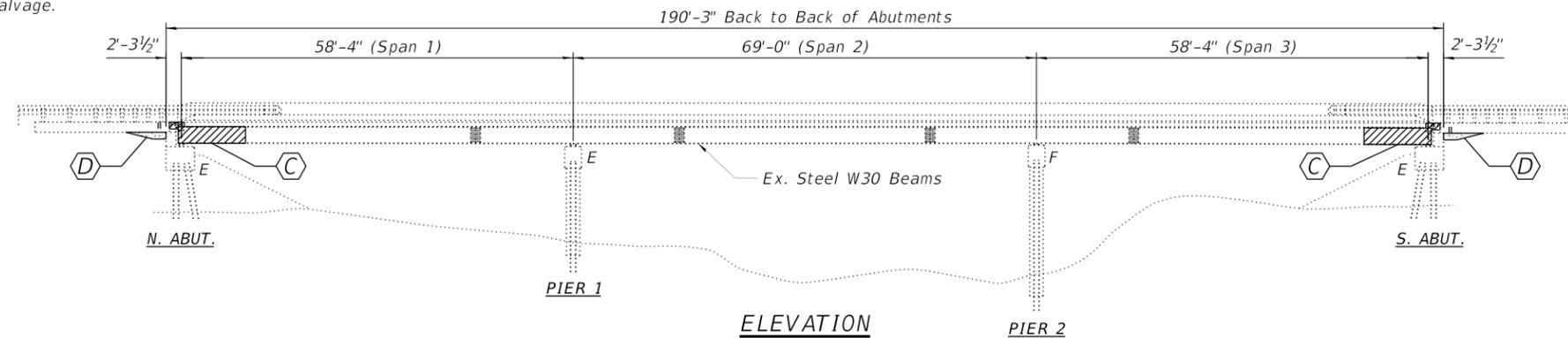
TRAFFIC CONTROL PLAN - STAGE II

SCALE 1 : 20 SHEET 2 OF 2 SHEETS STA. XXX+XX TO STA. XXX+XX

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138BR-1)BDR	HENRY	28	10
WHA# 1427D18		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYOL(247)				

Existing Structure: S.N. 037-0137 originally built 1989 as a three span Steel I-Beam Superstructure with open abutments and solid piers. The back to back length is 190'-3" and out to out width is 35'-2". Structure to be repaired as detailed in plans. Road shall remain open to traffic utilizing staged construction.

No Salvage.



DESIGN STRESSES

FIELD UNITS (EXIST. CONST.)

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (AASHTO M183)
 $f_y = 50,000$ psi (AASHTO M223 GR. 50)

FIELD UNITS (NEW CONST.)

$f'_c = 4,000$ psi (Superstructure)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (Grade 36)

LOADING HS20-44

Existing and Proposed

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges - LFD.

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Deck Cross Sections
- 3 Deck Patching Details
- 4 Abutment Joint Replacement Details
- 5 Joint Replacement and Repair Details
- 6 Modified Preformed Joint Strip Seal
- 7 North Abutment Repair Details
- 8 South Abutment Repair Details
- 9-10 Structural Steel Repair Details
- 11 Bar Splicer assembly and Mechanical Splicer Details

BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	5.1		5.1
Concrete Superstructure	Cu. Yd.	6.1		6.1
Protective Coat	Sq. Yd.	942		942
Reinforcement Bars, Epoxy Coated	Pound	1,150		1,150
Bar Splicers	Each	24		24
Preformed Joint Strip Seal	Foot	68		68
* Controlled Low-Strength Material	Cu. Yd.	3.5		3.5
* Structural Steel Repair	Pound	3,280		3,280
* Bridge Deck Latex Concrete Overlay 2 1/2"	Sq. Yd.	800		800
* Containment and Disposal of Non-Lead Paint Cleaning Residues	L. Sum	1		1
* Cleaning And Painting Steel Bridge	L. Sum	1		1
* Bridge Deck Scarification 3/4"	Sq. Yd.	800		800
* Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.		38.9	38.9
* Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.		14.0	14.0
* Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	3		3
* Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	14		14
* Diamond Grinding (Bridge Section)	Sq. Yd.	706		706
* Cleaning and Painting Exposed Rebar	L. Sum			1
* Bridge Deck Grooving (Longitudinal)	Sq. Yd.	611		611

*See Special Provisions

GENERAL NOTES

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.

Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included in the cost of Concrete Removal.

Up to 1/4 inch may be ground off the bridge deck and the bridge approach slabs.

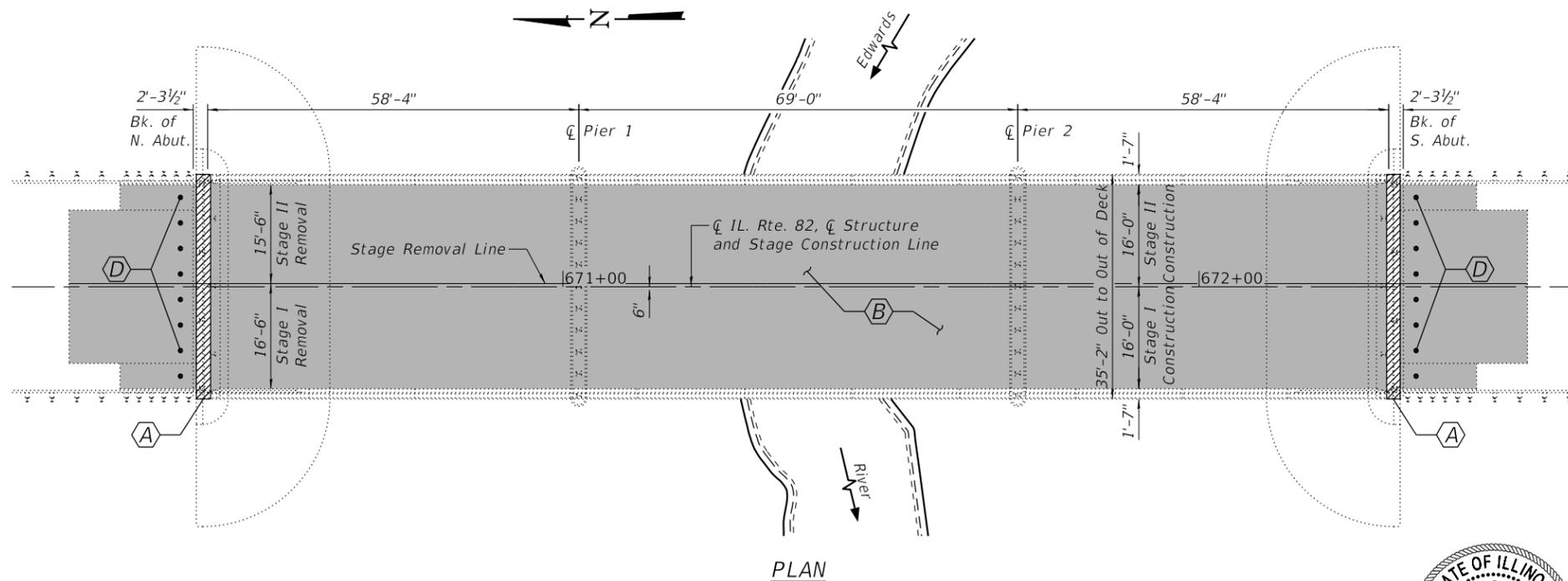
Cleaning and painting of the existing structural steel shall be specified in the special provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within 10 ft (measured along the beam) of the abutment joints shall be cleaned per Near White Blast Cleaning SSPC-SP10.

The designated areas cleaned per Near White Blast Cleaning (SSPC-SP10) and per Commercial Grade Power Tool Cleaning (SSPC-SP15) shall be painted according to the requirements of Paint System 1-0Z/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for all exterior steel surfaces shall be Interstate Green, Munsell No. 7.5G 4/8.

SSPC QP1 Certification is required for this Contract.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50° F.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless noted otherwise. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

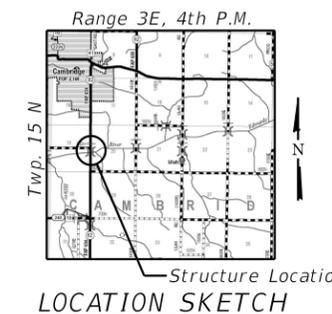


SCOPE OF WORK

- (A) Remove existing Expansion Joints and install new Preformed Joint Strip Seals
- (B) Install new 2 1/2" Latex Concrete Overlay on the existing deck. See structural sheet 2 of 11 for details.
- (C) Clean and Paint Structural Steel at Expansion Joint Locations and Structural Steel Repair.
- (D) Approach Slab Undermining Repair, See structural sheet 4 of 11.



DATE: 10-26-2020
 EXPIRES 11/30/2020



GENERAL PLAN AND ELEVATION
F.A.P. RT. 634 IL. RT. 82
OVER EDWARDS RIVER
SECTION (138-BR-1)BDR
HENRY COUNTY
STATION 671+37
STRUCTURE NO. 037-0137

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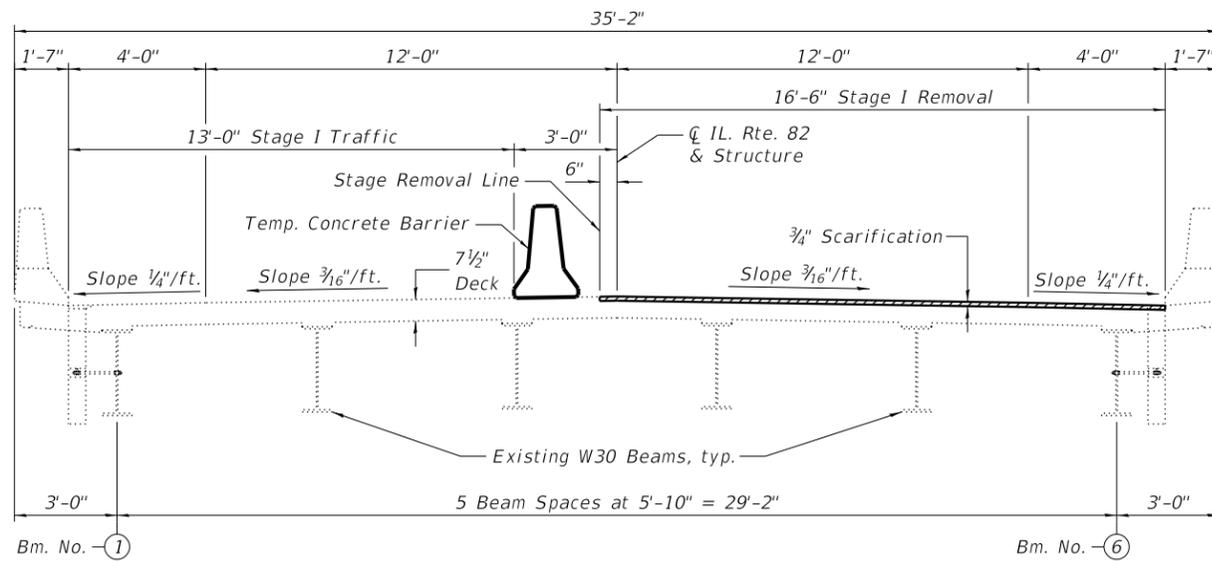


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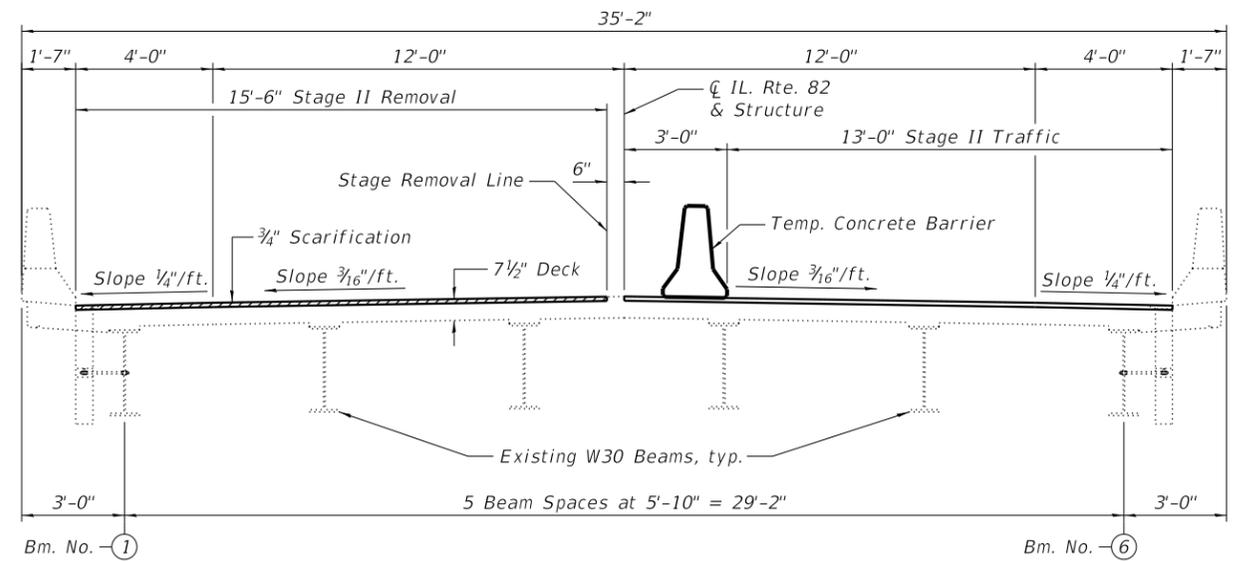
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL SHEET 1 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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WHA# 1427D18		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYL(247)				

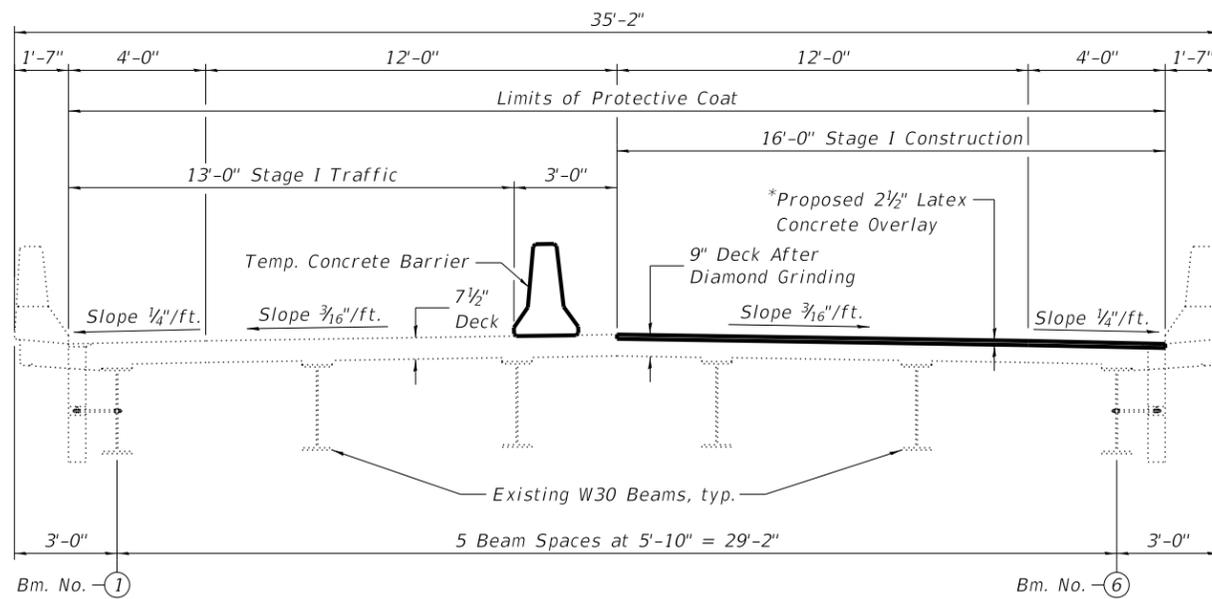


DECK CROSS SECTION - STAGE I SCARIFICATION CONSTRUCTION
(Looking South)

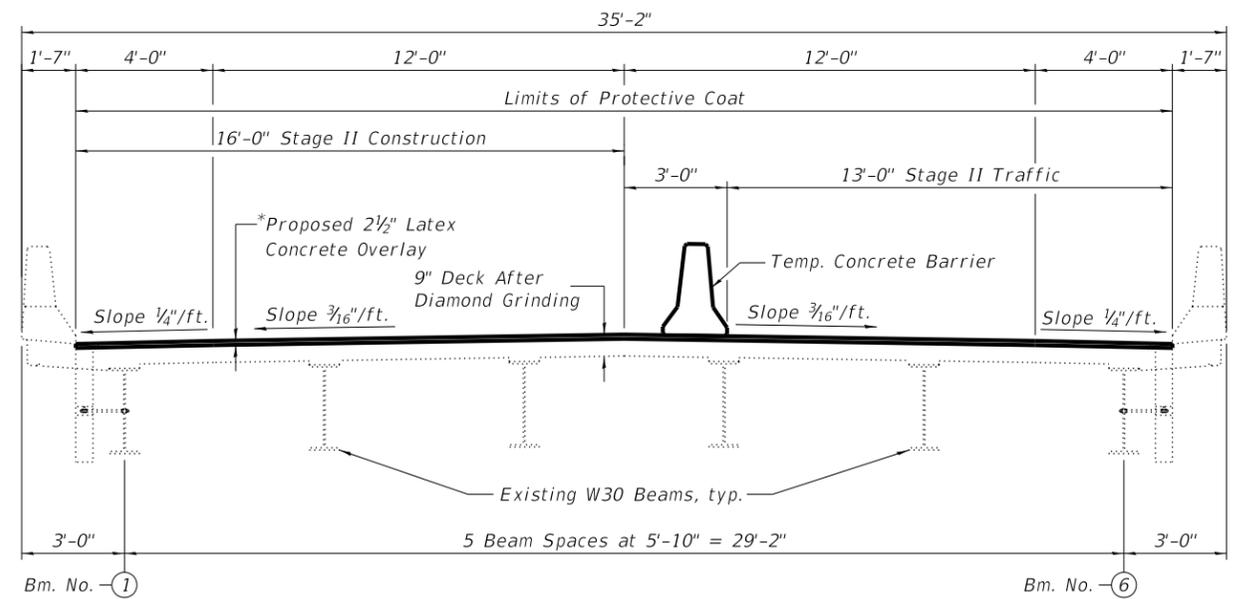


DECK CROSS SECTION - STAGE II SCARIFICATION CONSTRUCTION
(Looking South)

*Prior to Grinding



DECK CROSS SECTION - STAGE I OVERLAY CONSTRUCTION
(Looking South)



DECK CROSS SECTION - STAGE II OVERLAY CONSTRUCTION
(Looking South)

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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**

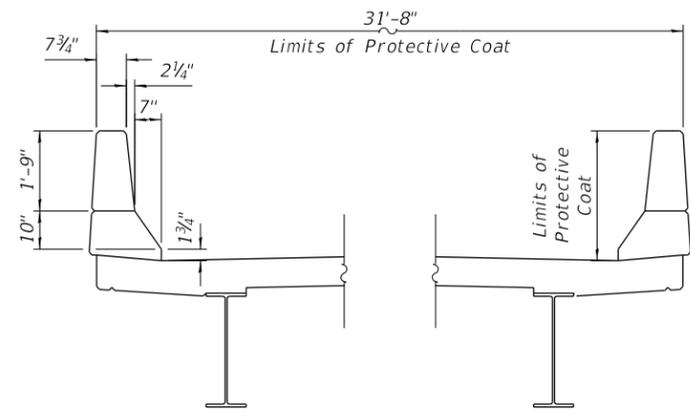
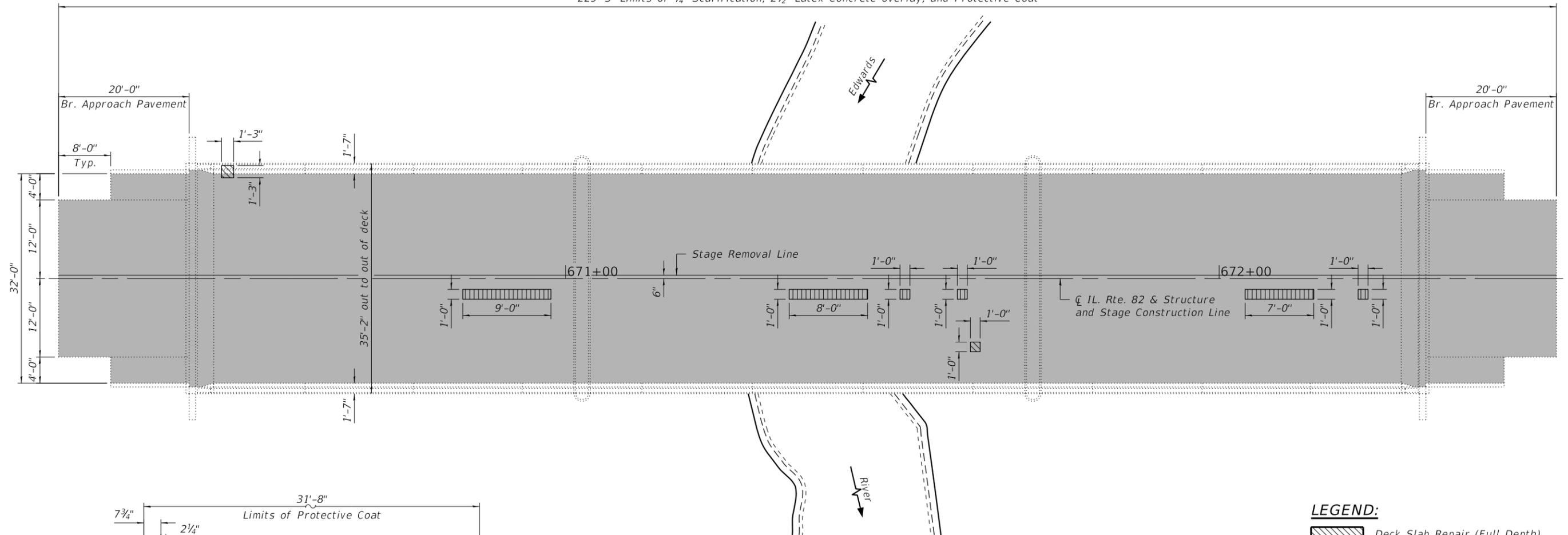
**DECK CROSS SECTIONS
STRUCTURE NO. 037-0137**

STRUCTURAL SHEET 2 OF 11 SHEETS

F.A.P. RTE. 634	SECTION (138-BR-1)BDR	COUNTY HENRY	TOTAL SHEETS 28	SHEET NO. 12
WHA# 1427D18		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYQL(247)				



229'-3" Limits of 3/4" Scarification, 2 1/2" Latex Concrete Overlay, and Protective Coat



PROTECTIVE COAT LIMITS

PLAN VIEW

LEGEND:

- Deck Slab Repair (Full Depth)
- Deck Slab Repair (Partial)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
** Protective Coat	Sq. Yd.	942
** Bridge Deck Latex Concrete Overlay 2 1/2"	Sq. Yd.	800
Bridge Deck Scarification 3/4"	Sq. Yd.	800
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	3
* Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	14
** Diamond Grinding (Bridge Section)	Sq. Yd.	706
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	611

* Contingency Item
 ** Includes Bridge Deck, Approach Pavement, Approach Shoulder Pavements, and new Parapet Areas

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

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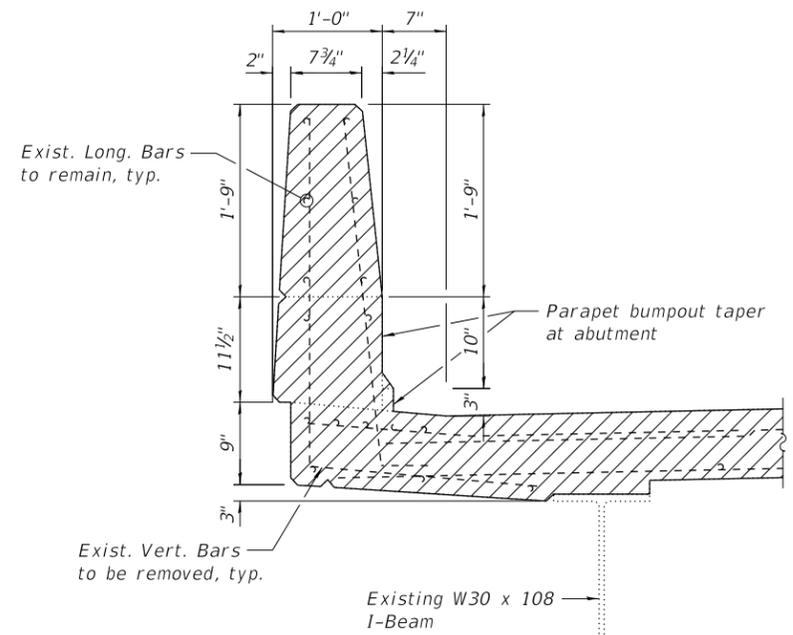
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DECK PATCHING DETAILS
 STRUCTURE NO. 037-0137**

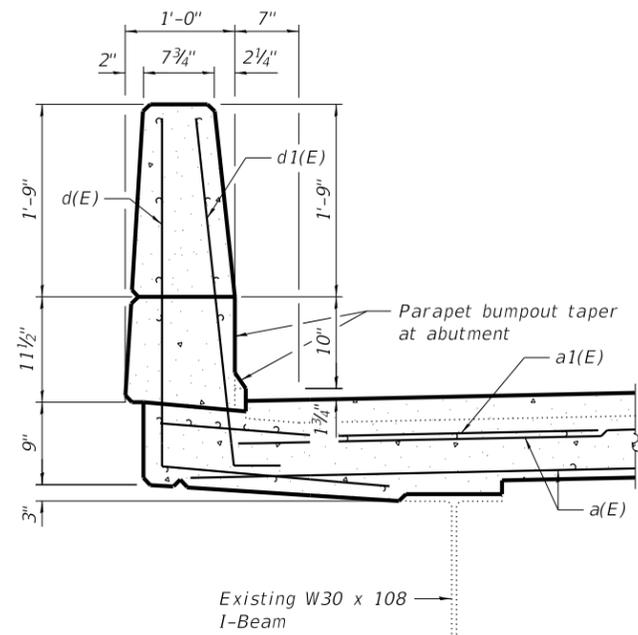
STRUCTURAL SHEET 3 OF 11 SHEETS

F.A.P. RTE. 634	SECTION (138-BR-1)BDR	COUNTY HENRY	TOTAL SHEETS 28	SHEET NO. 13
WHA# 1427D18		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYQL(247)				

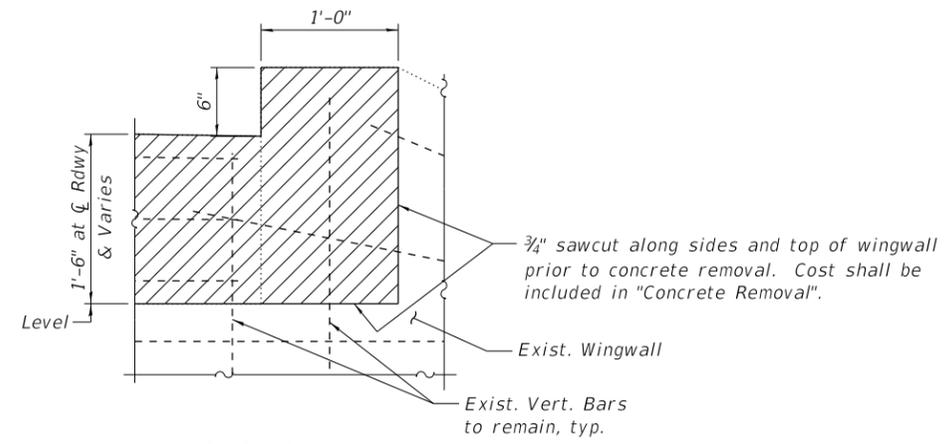
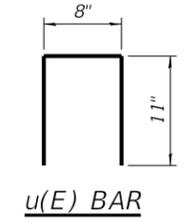
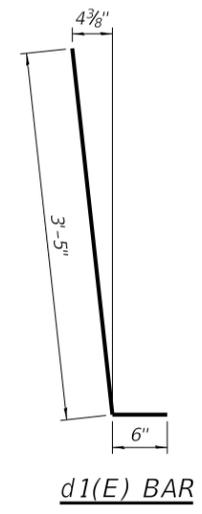
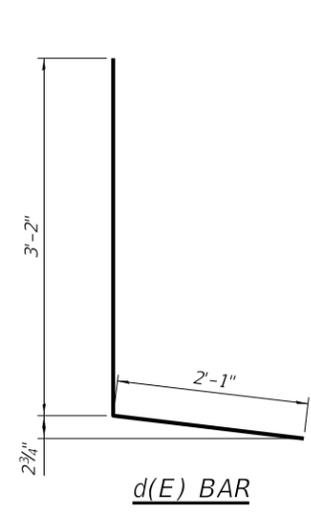
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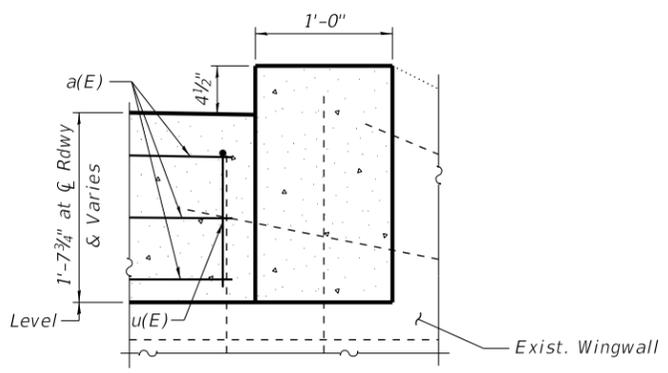
SECTION C-C



SECTION E-E



SECTION D-D



SECTION F-F

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	24	#5	17'-3"	—
a1(E)	8	#6	4'-0"	—
a2(E)	24	#6	17'-0"	—
d(E)	12	#5	5'-3"	L
d1(E)	12	#5	3'-11"	L
u(E)	72	#4	2'-6"	U
Concrete Removal			Cu. Yds.	5.1
Concrete Superstructure			Cu. Yds.	6.1
Reinforcement Bars, Epoxy Coated			Pound	1,150
Bar Splicers			Each	24
Controlled Low-Strength Material			Cu. Yds.	3.5

LEGEND:



NOTES:

For location of Sections C-C, D-D, E-E, and F-F, see Structural Sheet 4 of 11.
 See structural sheet 11 of 11 for Bar Splicers.

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 ENGINEERING ARCHITECTURE LAND SURVEYING
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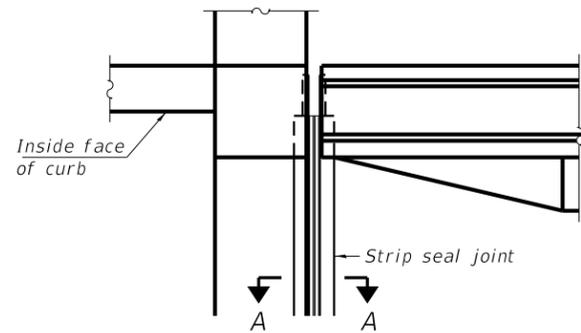
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

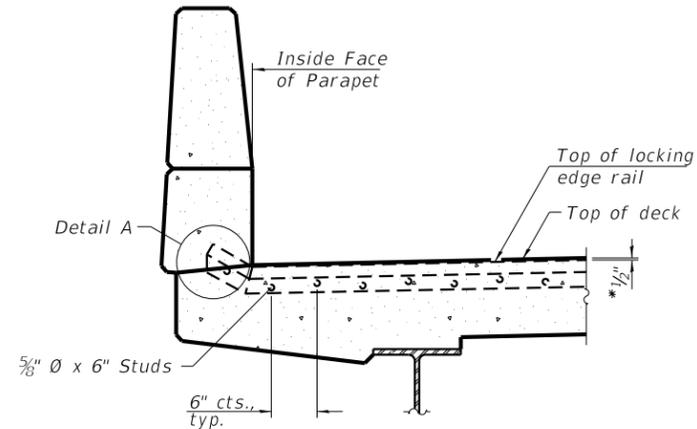
**JOINT REPLACEMENT AND REPAIR DETAIL
 STRUCTURE NO. 037-0137**

STRUCTURAL SHEET 5 OF 11 SHEETS

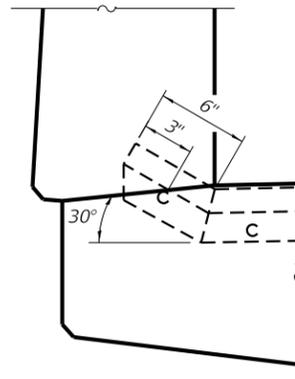
F.A.P. RTE. 634	SECTION (138-BR-1)BDR	COUNTY HENRY	TOTAL SHEETS 28	SHEET NO. 15
WHA# 1427D18		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYQL(247)				



PLAN AT PARAPET
(At Abutments)



SECTION AT PARAPET - ABUTMENTS



DETAIL A

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.

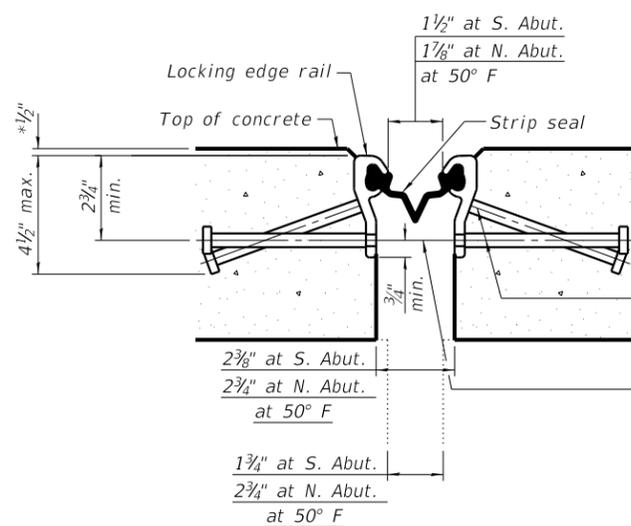
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

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.

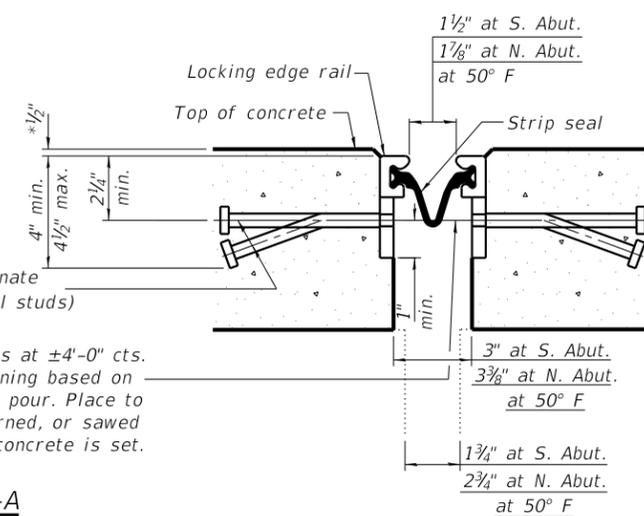
39" constant slope barrier shown, 44" constant slope barrier similar as noted.

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.



SHOWING ROLLED RAIL JOINT

* Prior to 1/4" Grinding



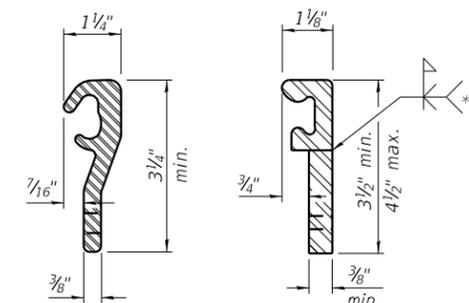
SHOWING WELDED RAIL JOINT

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

3/8" ϕ threaded rods in 7/16" ϕ holes at $\pm 4'-0"$ 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.

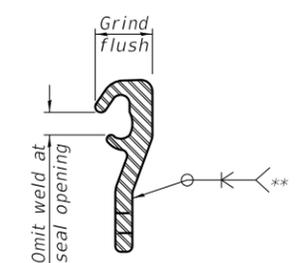


ROLLED (EXTRUDED) RAIL

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	Total
Preformed Joint Strip Seal	Foot	68

MODEL: Default
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11/19/2020 8:07:12 AM



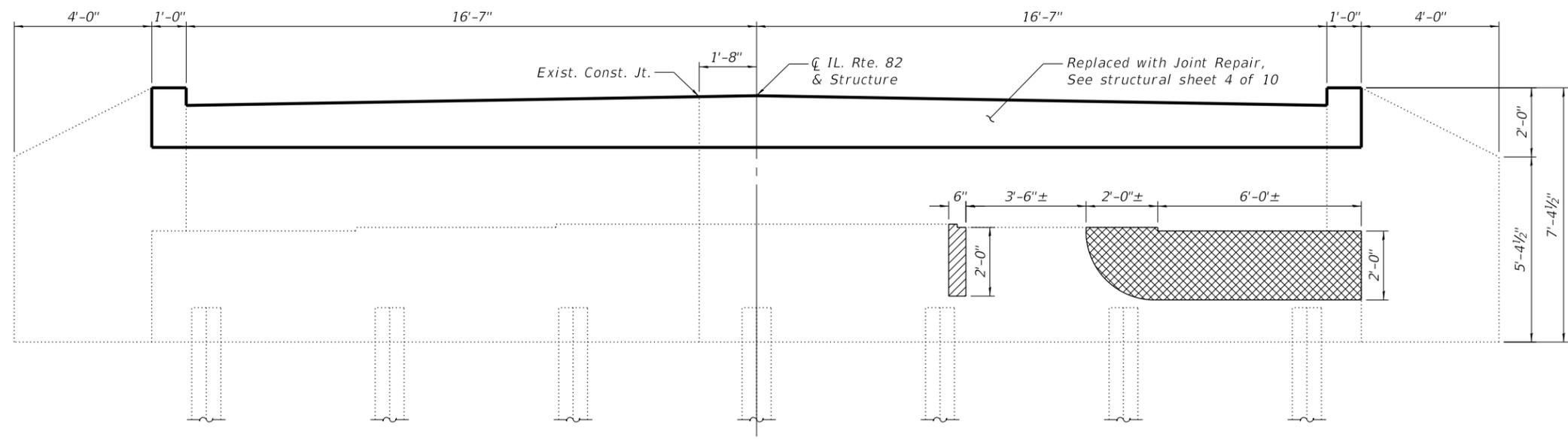
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PLOT SCALE =	CHECKED - BKC	REVISED -
PLOT DATE =	DRAWN - FDL	REVISED -
	CHECKED - BKC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

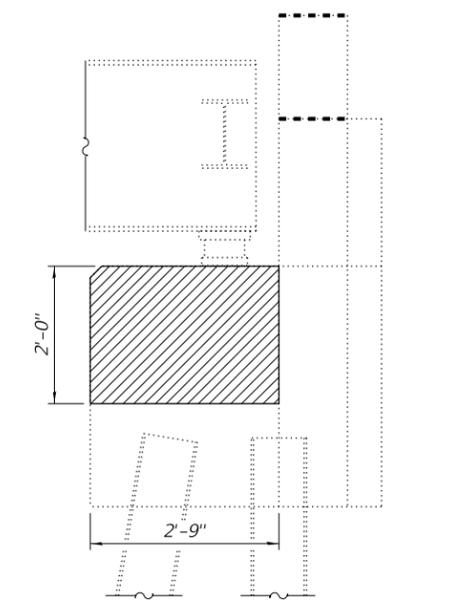
**MODIFIED PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 037-0137**

STRUCTURAL SHEET 6 OF 11 SHEETS

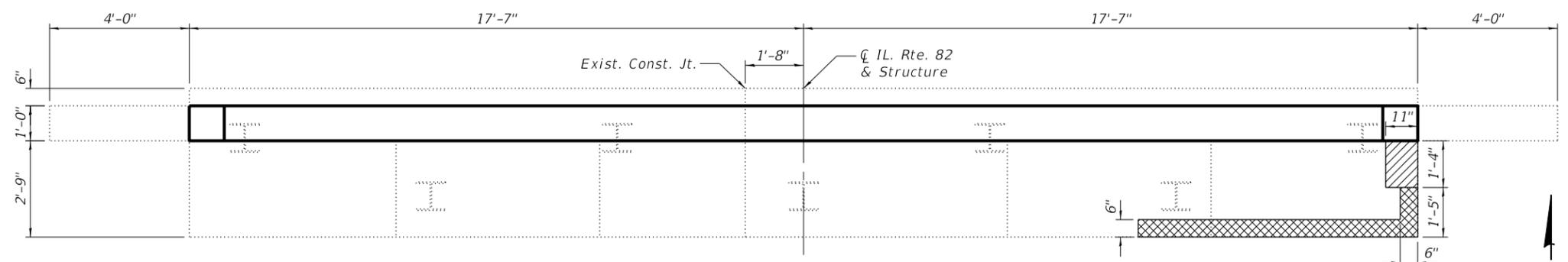
F.A.P. RTE. 634	SECTION (138-BR-1)BDR	COUNTY HENRY	TOTAL SHEETS 28	SHEET NO. 16
WHA# 1427D18		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYQL(247)				



ELEVATION - N. ABUT.
(Looking North)



SECTION AT END OF ABUTMENT
(East End, Looking West)



PLAN - N. ABUT.

LEGEND:

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

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	10.5
Structural Repair of Concrete (Depth Greater Than 5")	Sq. Ft.	14.0

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 10/25/2020 12:30:59 PM

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

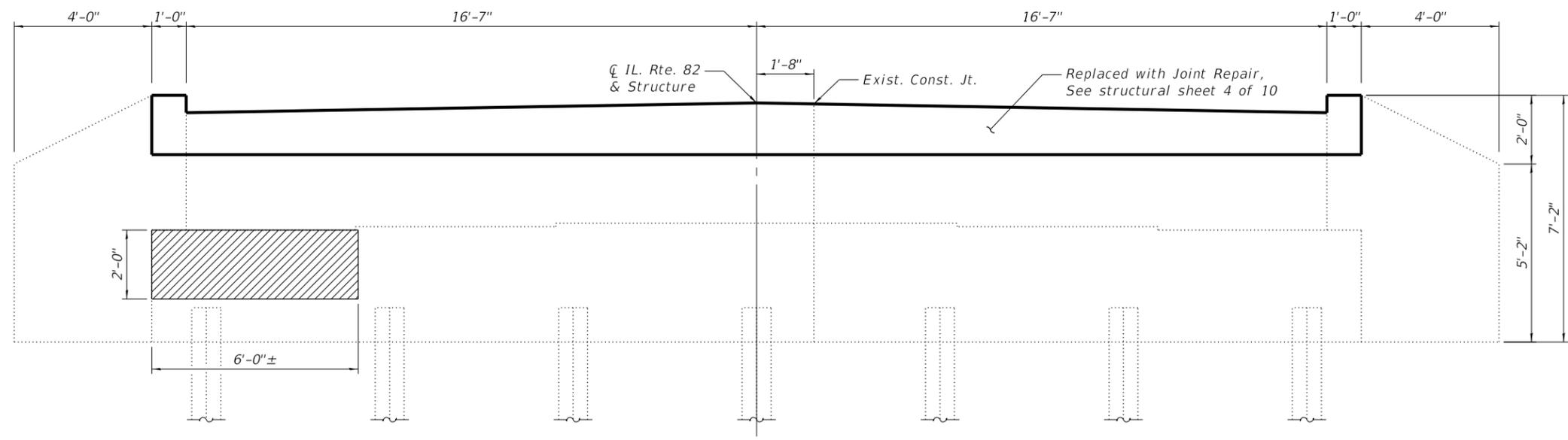
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

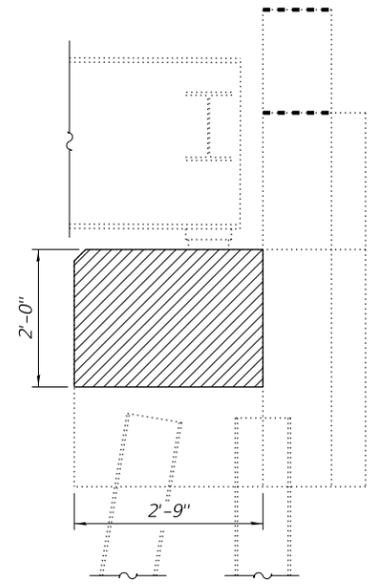
NORTH ABUTMENT REPAIR DETAILS
STRUCTURE NO. 037-0137

STRUCTURAL SHEET 7 OF 11 SHEETS

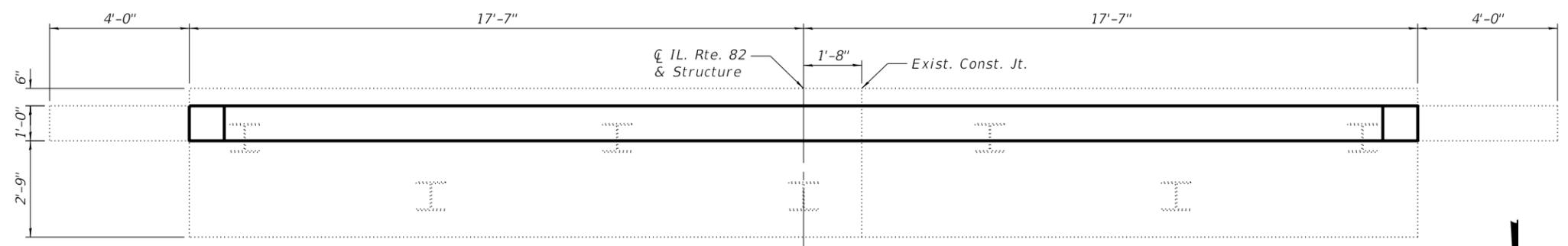
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WHA# 1427D18		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYQL(247)				



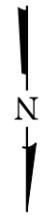
ELEVATION - S. ABUT.
(Looking South)



SECTION AT END OF ABUTMENT
(East End, Looking West)



PLAN - S. ABUT.



LEGEND:

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

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	28.4

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10/25/2020 12:31:03 PM

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

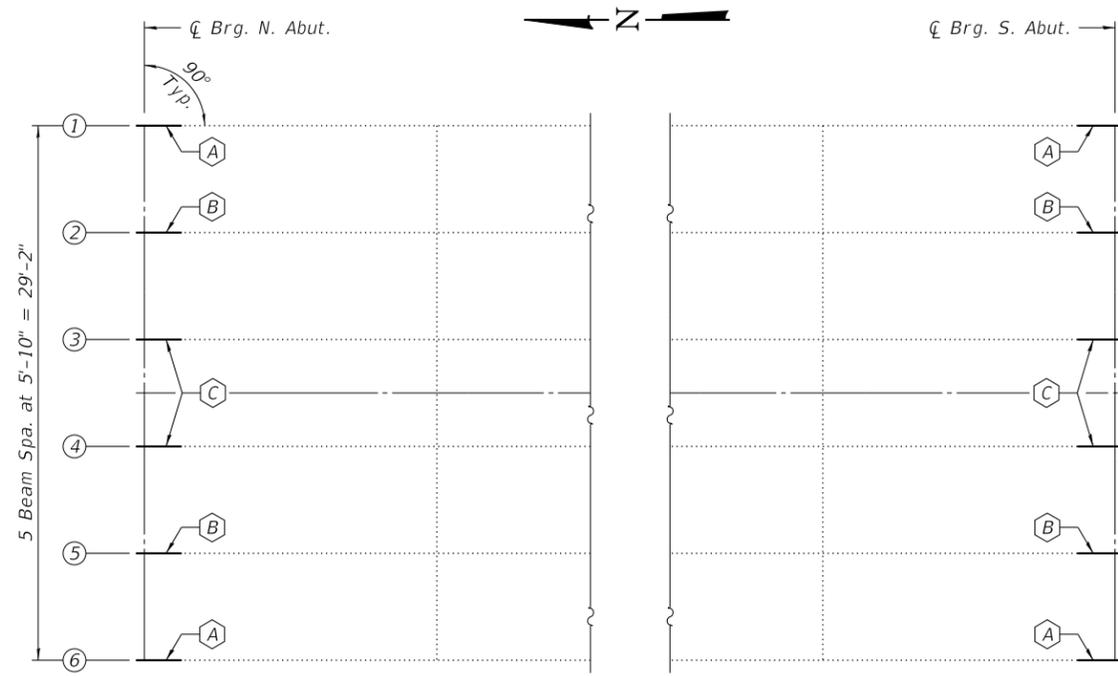
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PLOT SCALE =	DRAWN - FDL	REVISED -
PLOT DATE =	CHECKED - BKC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENT REPAIR DETAILS
STRUCTURE NO. 037-0137**

STRUCTURAL SHEET 8 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138-BR-1)BDR	HENRY	28	18
WHA# 1427D18		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYQL(247)				



PARTIAL FRAMING PLAN

- (A) - Beam End Repair - Repair A
- (B) - Beam End Repair - Repair B
- (C) - Beam End Repair - Repair C

NOTES

All structural steel shall conform to AASHTO M 270 Grade 36, unless otherwise noted.

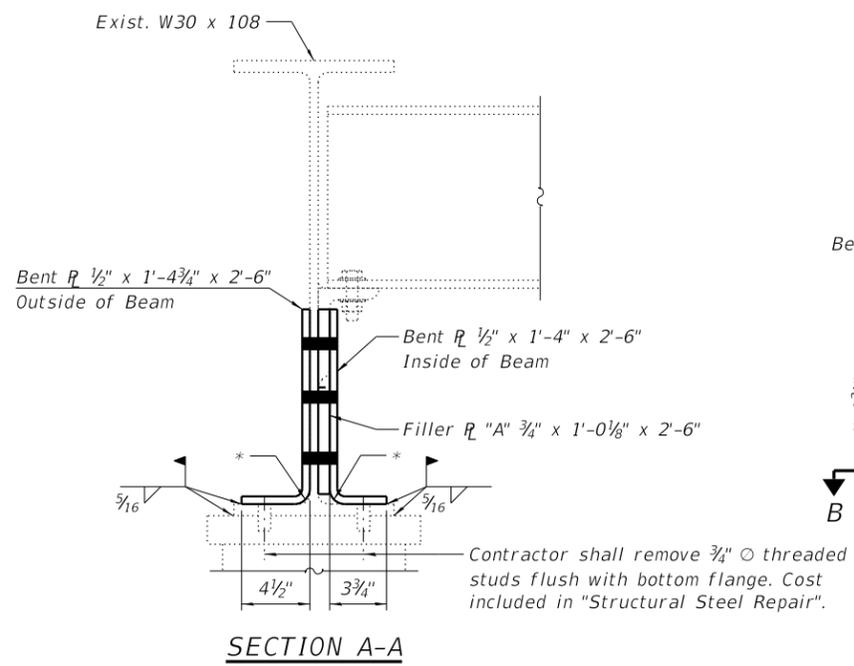
All structural steel shall be hot-dip galvanized. See Special Provisions for "Hot Dip Galvanizing for Structural Steel".

All fasteners shall be high strength bolts. Holes shall be $1\frac{5}{16}$ " \varnothing for $\frac{7}{8}$ " \varnothing bolts, unless otherwise noted.

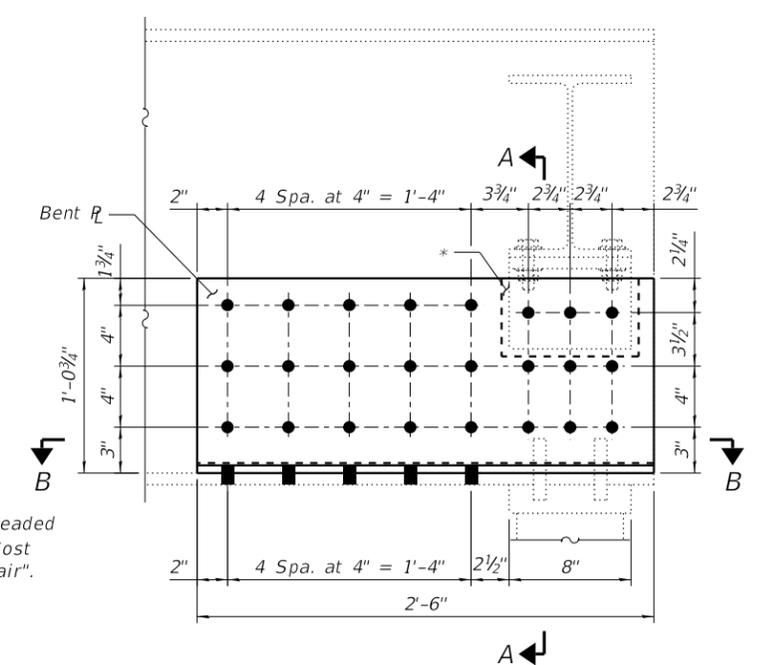
All holes in existing structural steel shall be field drilled using shop drilled holes of fabricated plates as a template, where applicable. Torching of holes is not allowed.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection of new steel as required by the special provision "Cleaning and Painting Existing Steel Structures".

Cleaning and painting of all contact surfaces shall meet the requirements for Primary Connections as specified in the structural provisions for "Cleaning and Painting Contact Surface Areas of Existing Steel Structures" except as noted.

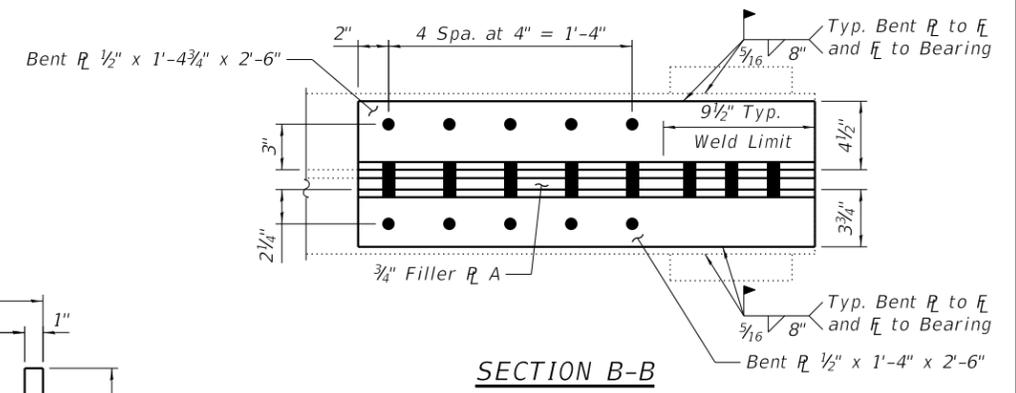


SECTION A-A



REPAIR A

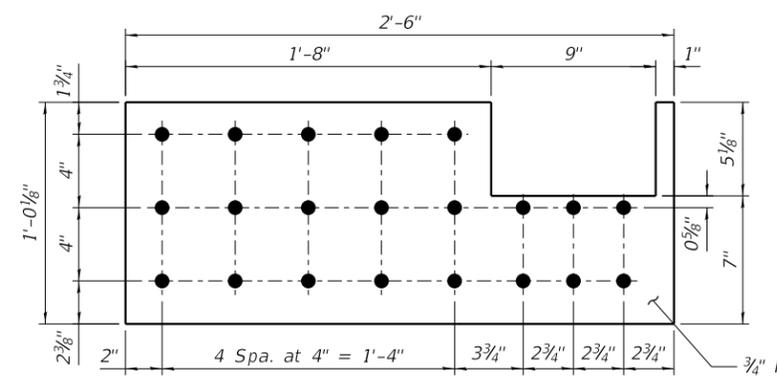
*Place silicone in gap between fill plate and supporting diaphragm angle and between bottom of fill plate and existing beam fillet to fill void prior to erecting bent plate. Cost included in "Structural Steel Repair".



SECTION B-B

BOLT HOLE LEGEND

● - Shop drill holes in new steel.



FILLER PLATE A

One Required per Each Repair A

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	3,280

MODEL: Default
FILE NAME: S:\PROJECTS\2018\1427D18_IDOT\DESIGN\CAD_SHEETS\WO 8\1427D18_SN 037-0137_Structural Steel Repair 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

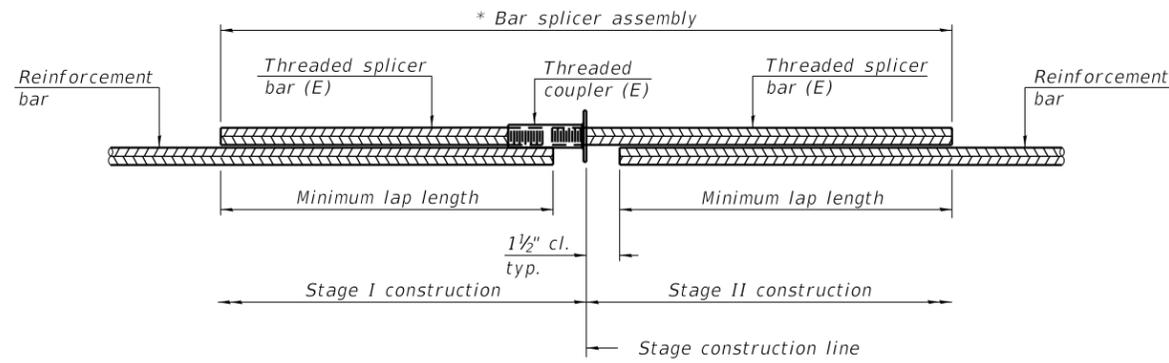
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL REPAIR DETAILS
STRUCTURE NO. 037-0137**

F.A.P. RTE. 634	SECTION (138-BR-1)BDR	COUNTY HENRY	TOTAL SHEETS 28	SHEET NO. 19
WHA# 1427D18		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYQL(247)				

STRUCTURAL SHEET 9 OF 11 SHEETS

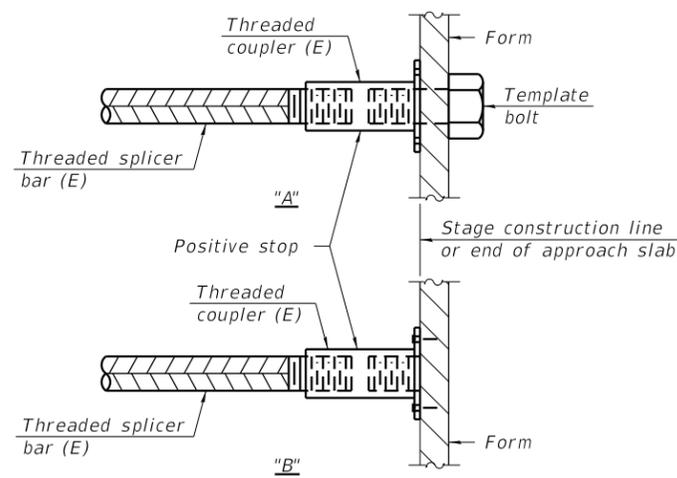


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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

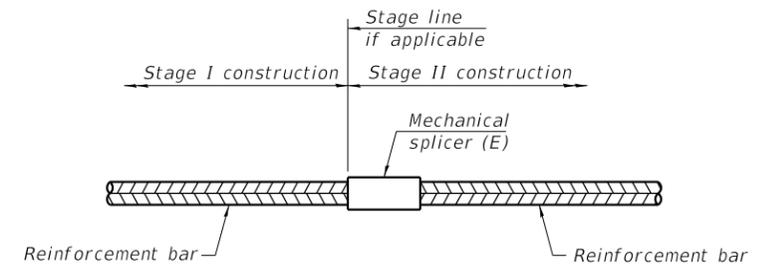
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
N. Abutment	#5	6	3'-6"
	#6	6	4'-0"
S. Abutment	#5	6	3'-6"
	#6	6	4'-0"



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.

MODEL: Default
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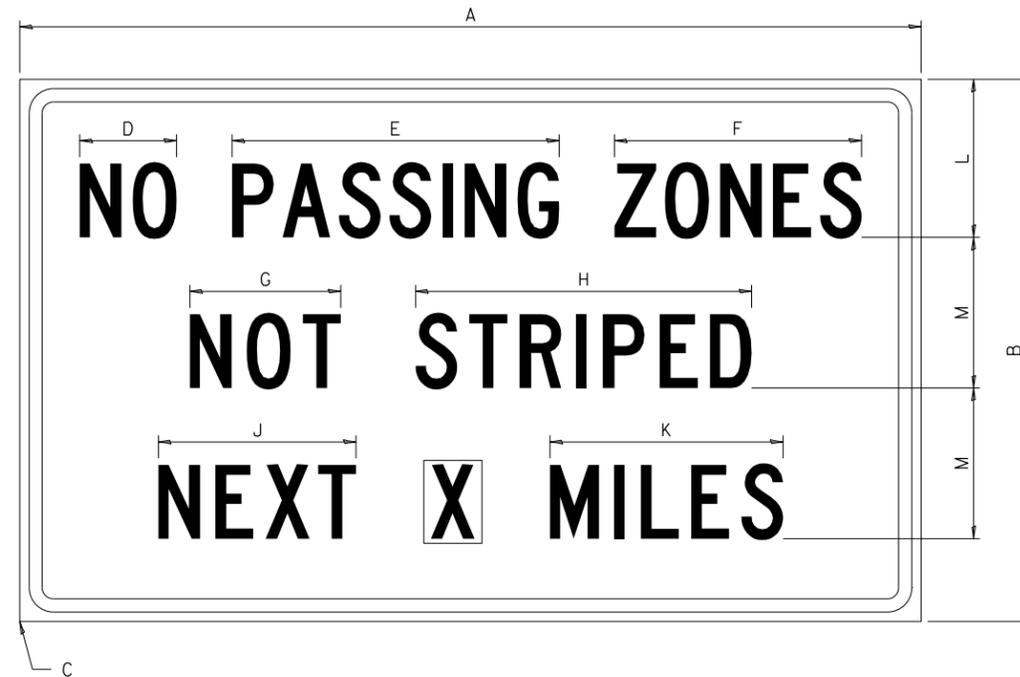
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 037-0137

F.A.P. RTE. 634	SECTION (138-BR-1)BDR	COUNTY HENRY	TOTAL SHEETS 28	SHEET NO. 21
WHA# 1427D18		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYQL(247)				

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100



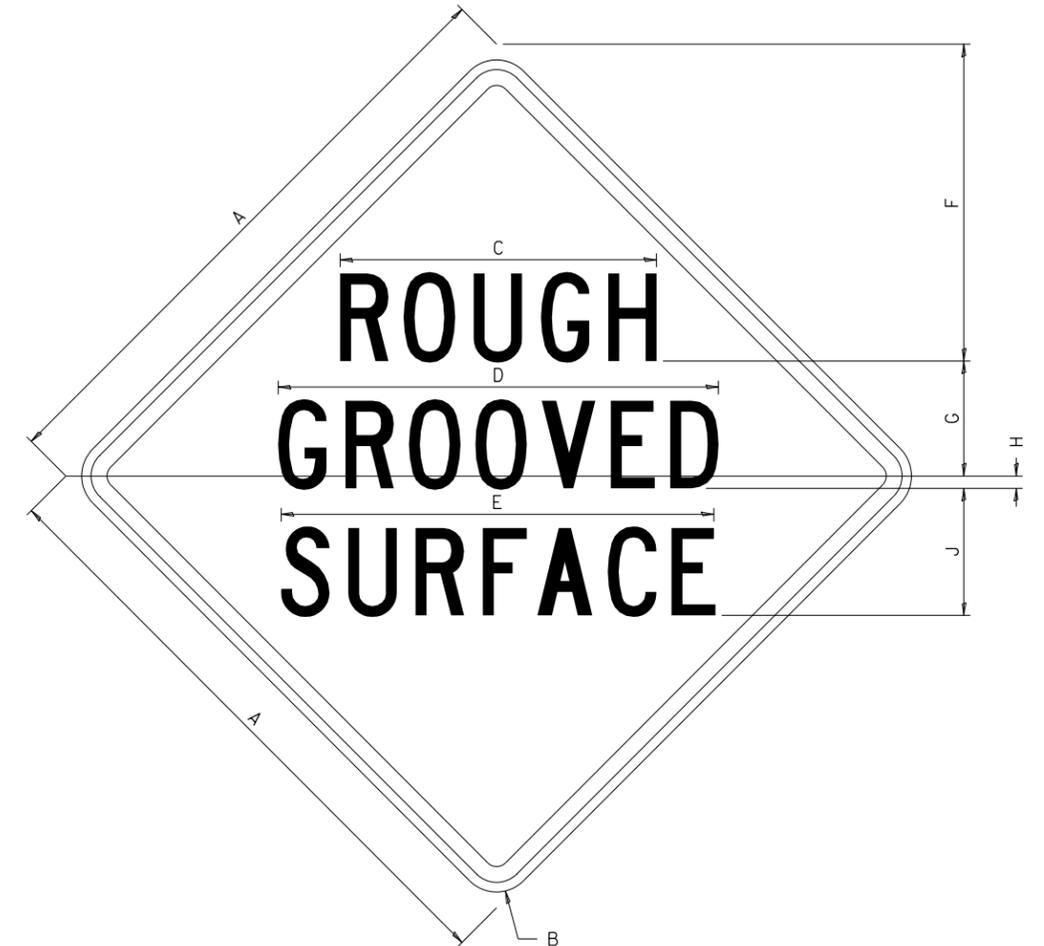
COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

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.

FILE = S:\PROJECTS\2018\1427018.DOT\DESIGN\CAD\SHEETS\WO 8\1427018-District_Details-W08.dgn



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	DRAWN - GBG	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

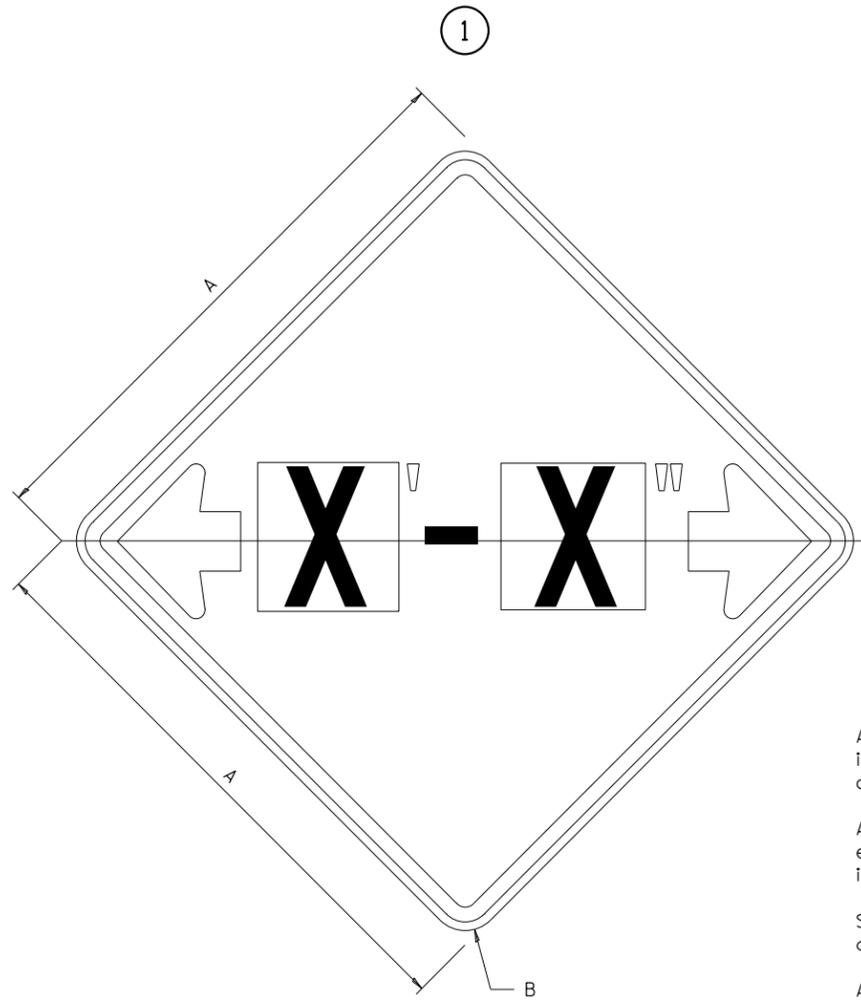
**REGION 2 / DISTRICT 2 STANDARD
WORK ZONE SIGN DETAILS (34.1)**

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

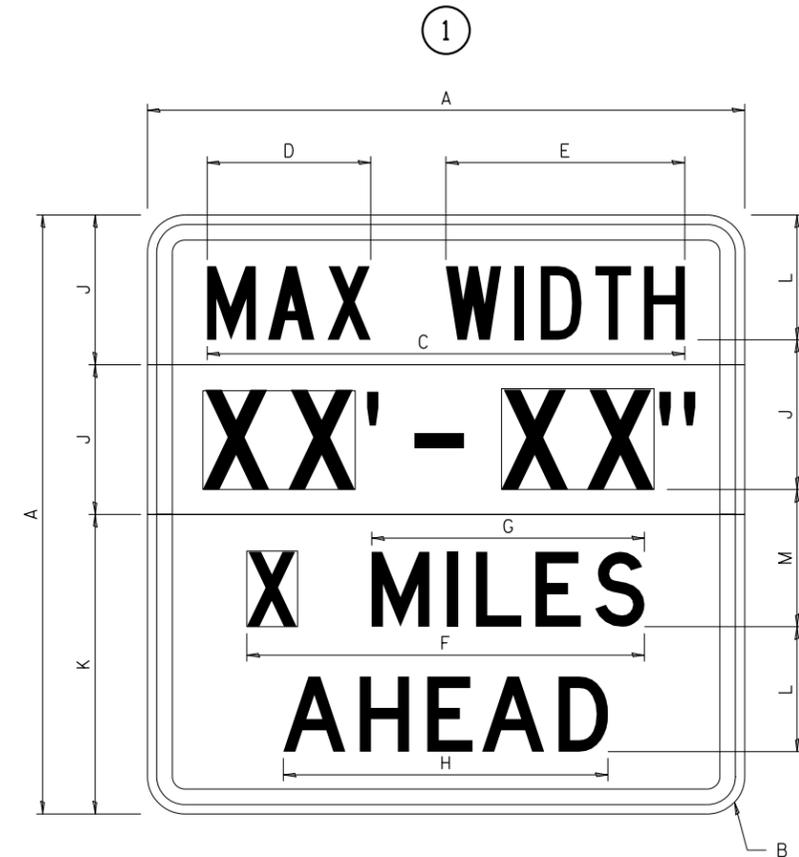
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138BR-1)BDR	HENRY	28	22
WHA# 1427018		CONTRACT NO. 64P51		
ILLINOIS FED. AID PROJECT STP-HYOL(247)				

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

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	DRAWN - GBG	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

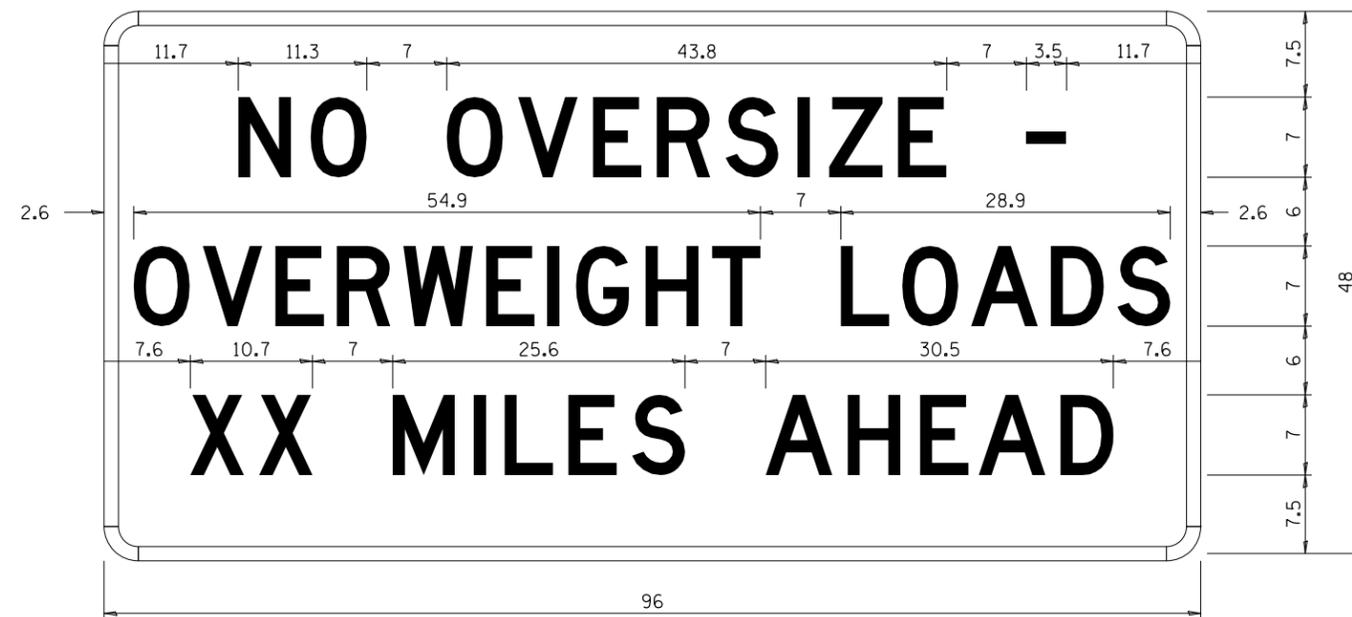
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138BR-1)BDR	HENRY	28	23
WHA# 1427018			CONTRACT NO. 64P51	
ILLINOIS FED. AID PROJECT STP-HYOL(247)				

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
-------	------------------------------	--------------	---------------------------------

COLOR	LEGEND AND BORDER BACKGROUND	BLACK WHITE	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.

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

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

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.

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	DRAWN - GBG	REVISED -
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PLOT DATE = 9/30/2020	DATE - 10/02/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

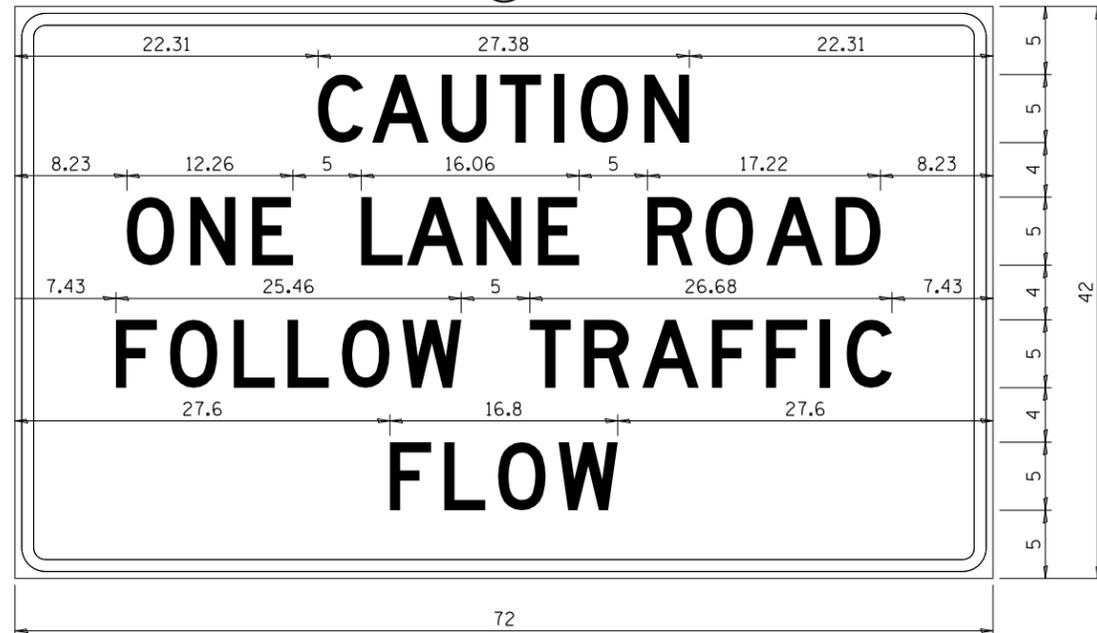
SCALE N / A SHEET 3 OF 4 SHEETS STA. N / A TO STA. N / A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138BR-1)BDR	HENRY	28	24
WHA# 1427D18			CONTRACT NO. 64P51	
ILLINOIS FED. AID PROJECT STP-HYOL(247)				

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

8.23	O	N	E	
3.51	1.17	3.36	1.18	3.04

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

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

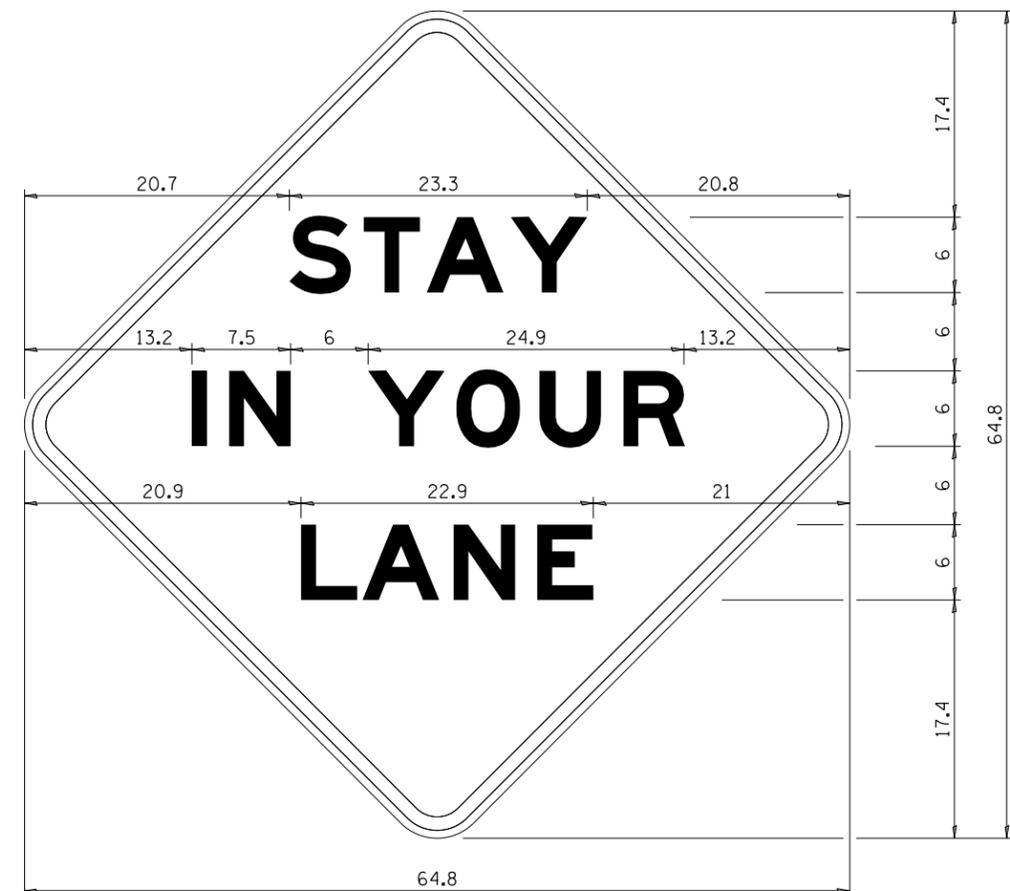
7.43	F	O	L	L	O	W				
3.04	0.94	3.52	1.17	3.04	0.94	3.05	0.94	3.51	0.94	4.37

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

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

Sign not to scale

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

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)

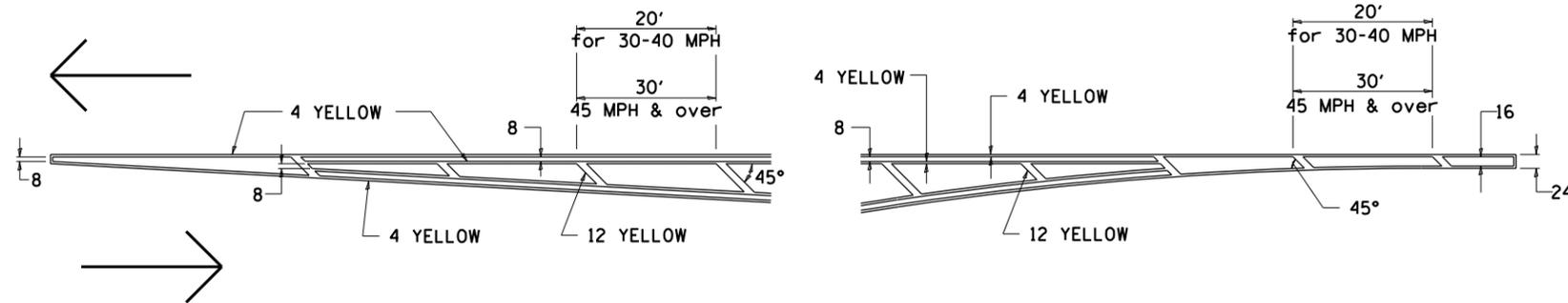
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138BR-1)BDR	HENRY	28	25
WHA# 1427D18		CONTRACT NO. 64P51		

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

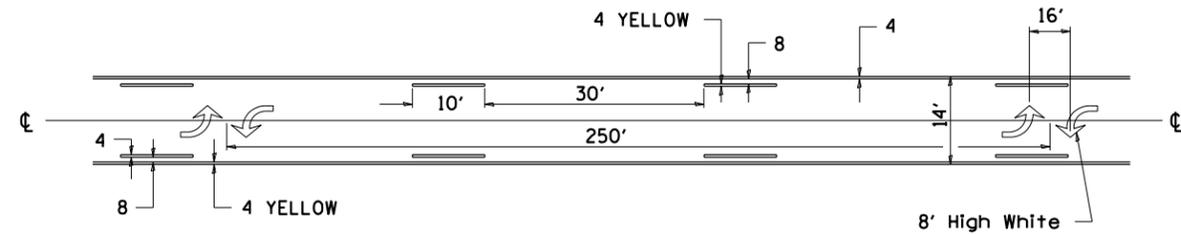
ILLINOIS FED. AID PROJECT STP-HYOL(247)

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

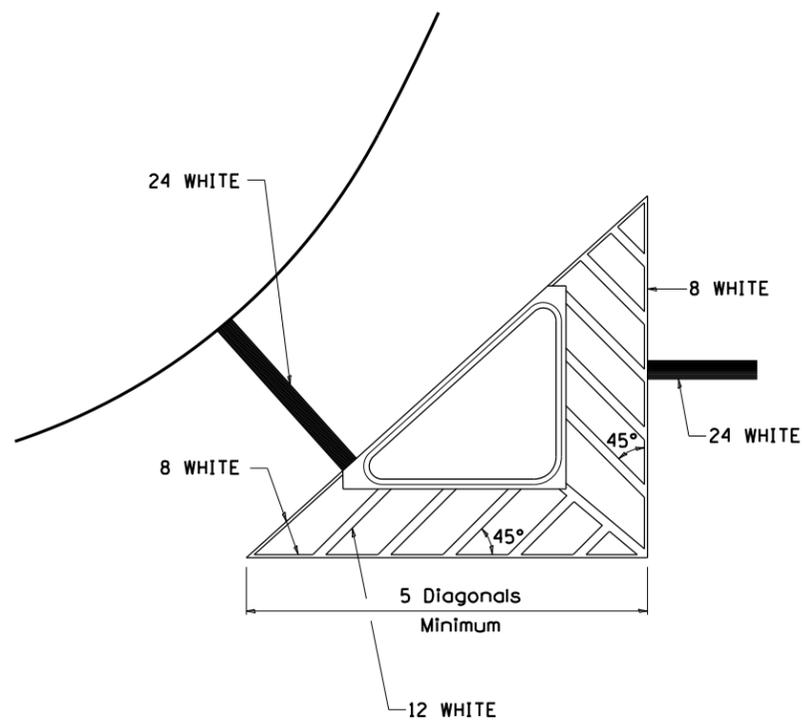


MEDIAN PAVEMENT MARKING



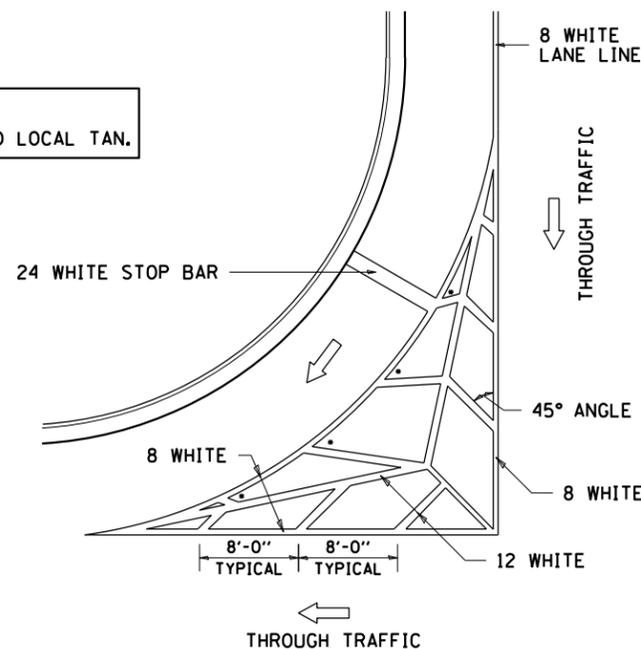
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



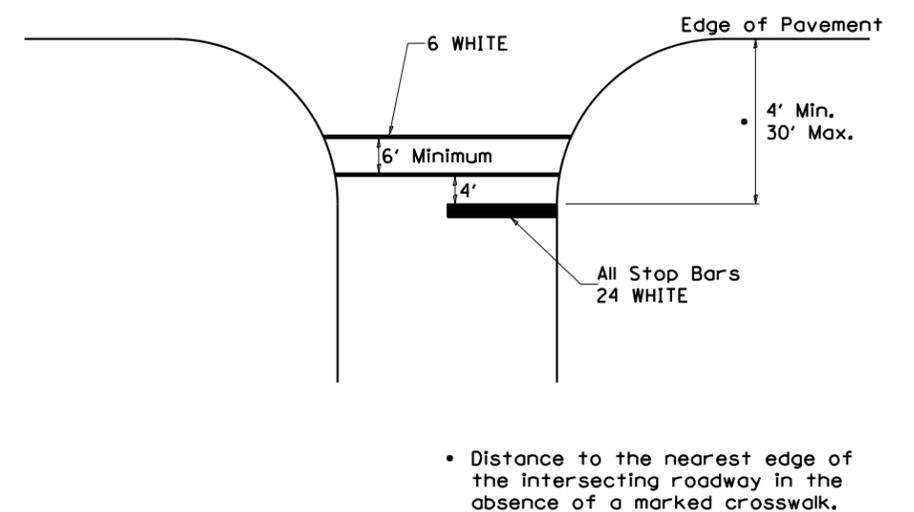
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

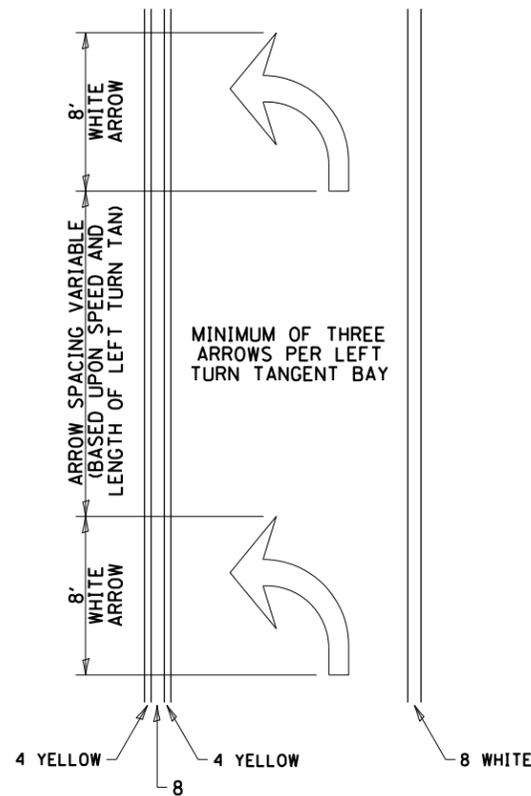
See Schedules for Locations



FILE = S:\PROJECTS\2018\1427D18.DISTRICT\DESIGN\CAD\SHEETS\NO 8\1427D18-District_Details-W08.dgn

TYPICAL PAVEMENT MARKINGS

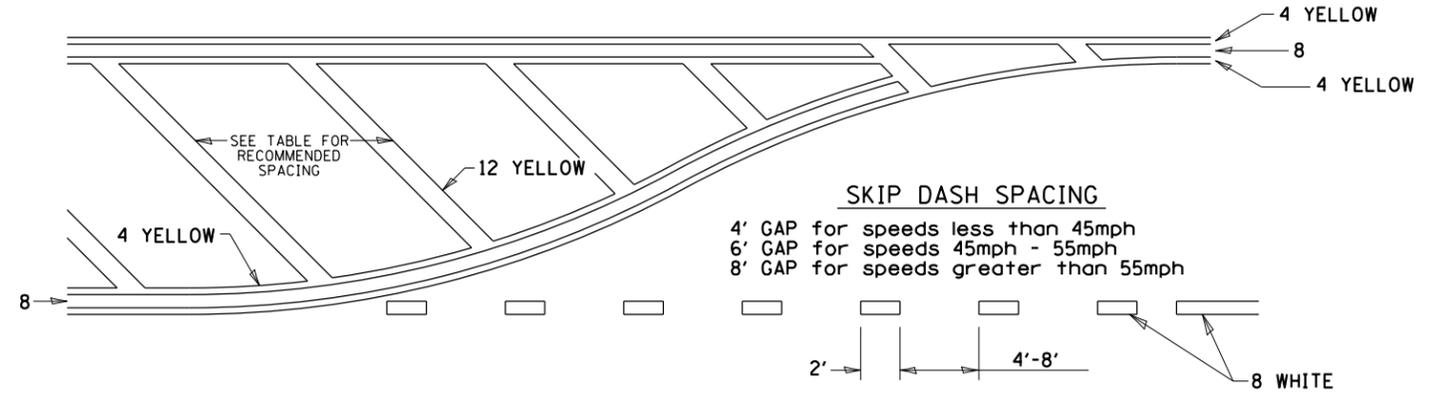
ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

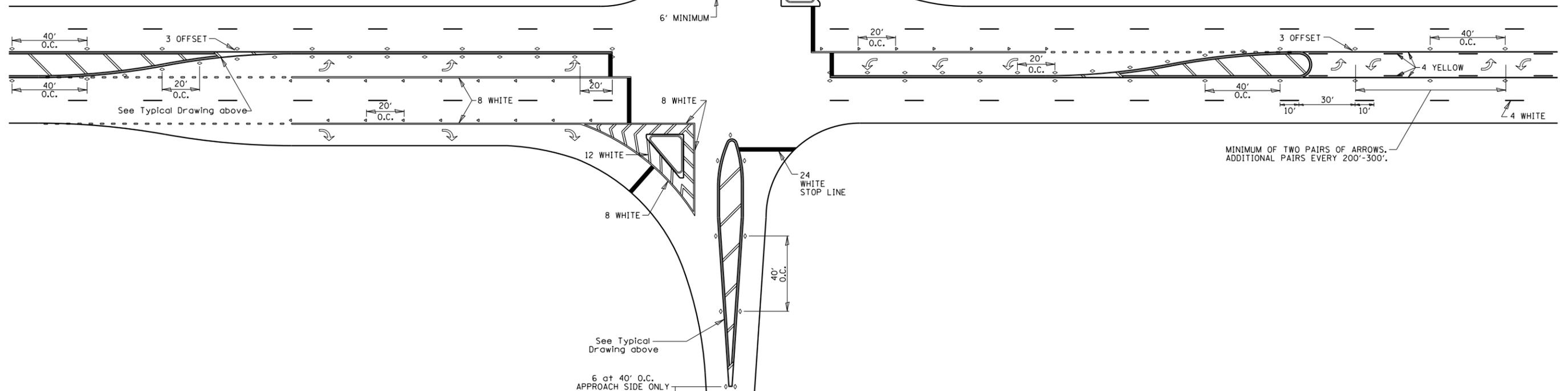
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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.DISTRICT DETAILS\W08.dgn



USER NAME = elerson
 DESIGNED - GFS
 DRAWN - GBG
 PLOT SCALE = 24.0000' / 1" CHECKED - GFS
 PLOT DATE = 9/30/2020 DATE = 10/02/2020

REVISED -
 REVISED -
 REVISED -
 REVISED -

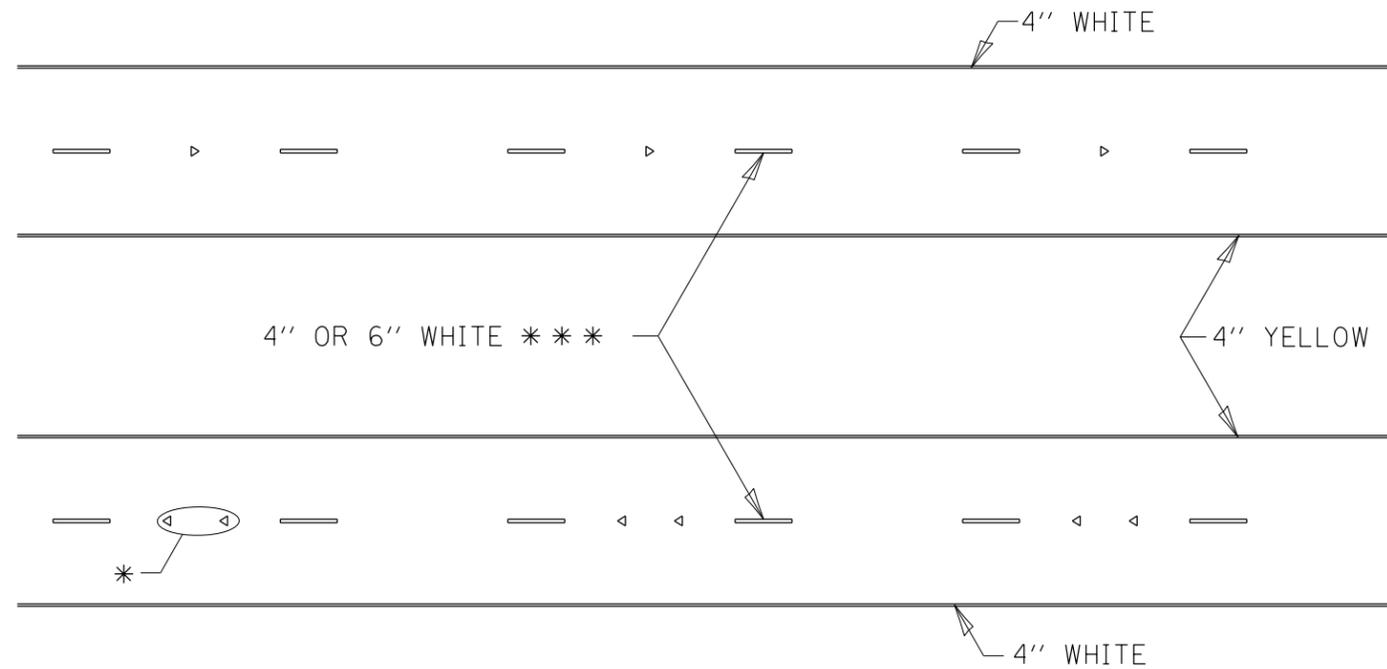
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

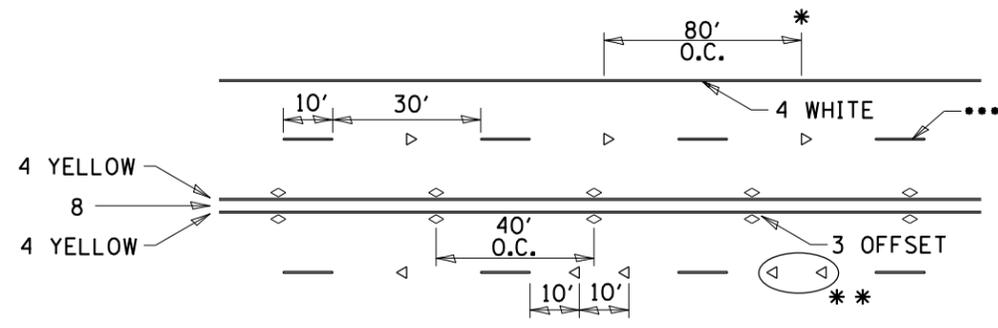
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138BR-1)BDR	HENRY	28	27
WHA# 1427D18			CONTRACT NO. 64P51	
ILLINOIS FED. AID PROJECT STP-HYOL(247)				

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.

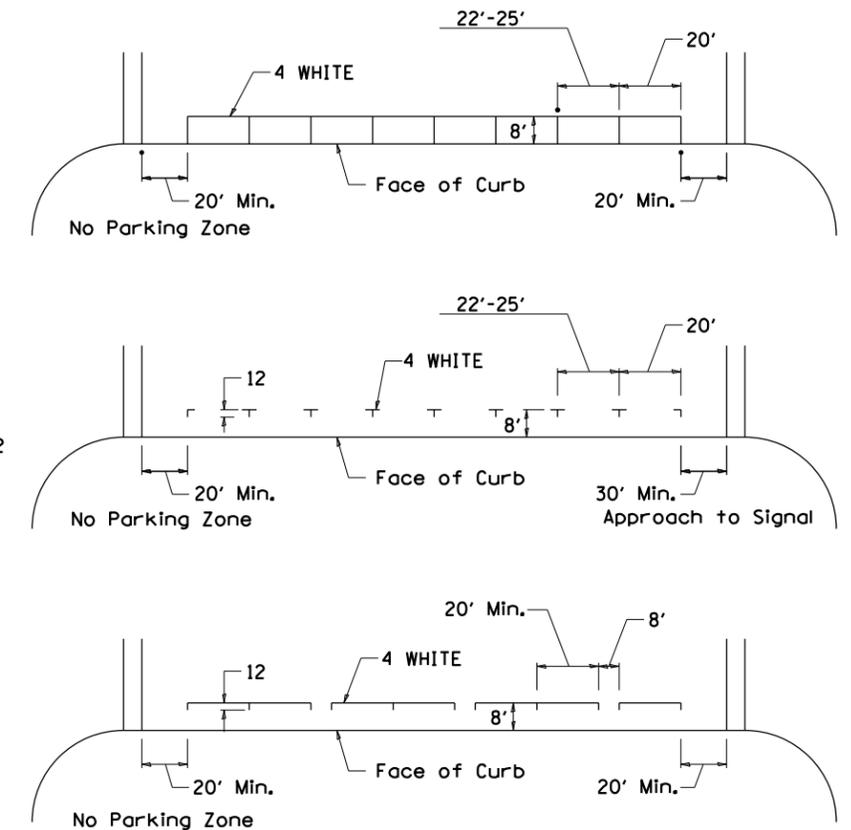
•• USE DOUBLE MARKERS WHEN ADT ≥ 20,000

••• CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

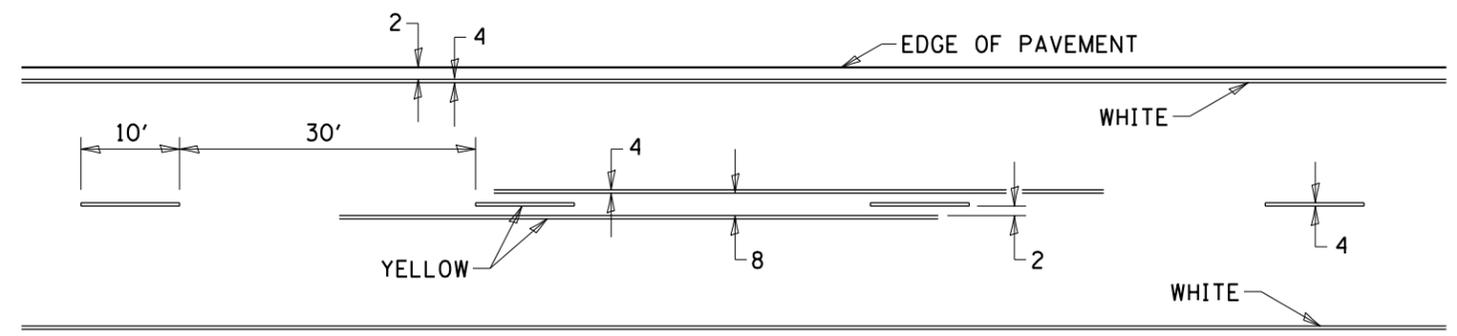
MULTI-LANE / UNDIVIDED & ONE WAY

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

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
634	(138BR-1)BDR	HENRY	28	28
WHA# 1427D18			CONTRACT NO. 64P51	

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

ILLINOIS FED. AID PROJECT STP-HYOL(247)