

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

FAP ROUTE 525 (US 20) OVER FAI ROUTE 90
 SECTION D2 BDR 2020-1
 BRIDGE REPAIR
 BOONE COUNTY

C-92-062-20

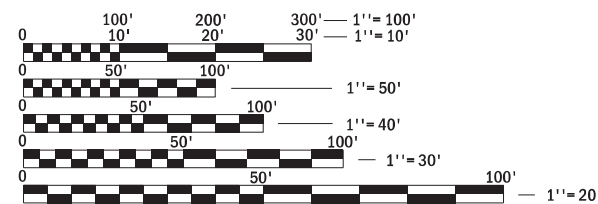
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	1
ILLINOIS FED. AID PROJECT				
CONTRACT NO. 64P38				

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DESIGN DESIGNATIONS

PRINCIPAL ARTERIAL
 CURRENT ADT: 19,400 (2017)
 DESIGN SPEED: 55 MPH
 POSTED SPEED: 55 MPH
 MU = 9%, SU = 7%



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.

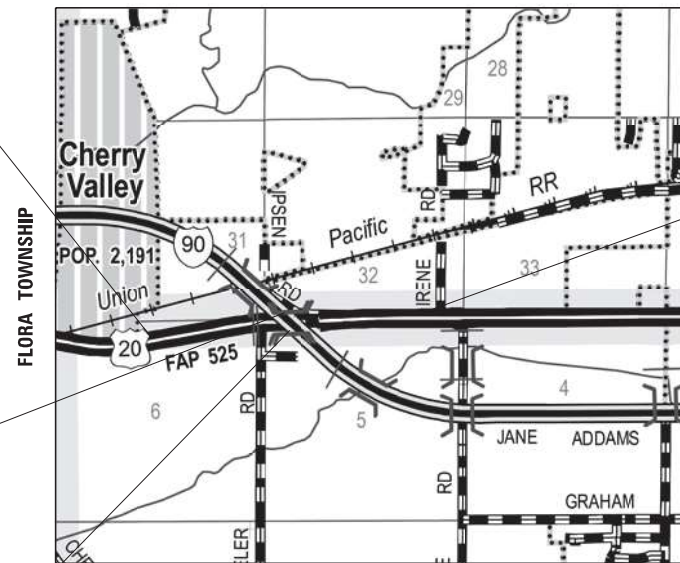
J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

PROJECT ENGINEER LUKE NELSON, P.E.
 PROJECT MANAGER MAHMOUD ETEMADI, P.E.

CONTRACT NO. 64P38

TOWNSHIP 43 NORTH
 RANGE 3 EAST OF 3RD P.M.
 SECTION 5

PROJECT BEGINS
 STA. 1424 + 04



MAP NOT TO SCALE

LOCATION MAP

GROSS LENGTH = 3,803 FT. = 0.720 MILE
 NET LENGTH = 3,803 FT. = 0.720 MILE

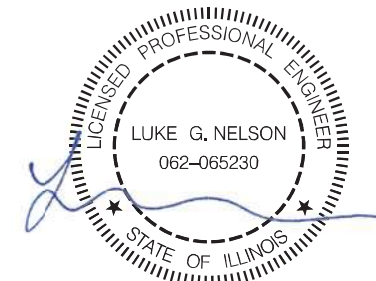
EXISTING STRUCTURE

S.N. 004-9900 (WB) A CONTINUOUS FOUR SPAN WITH 94'-0" MAIN SPANS AND 61'-6" END SPANS ON A SKEW OF 47 24'

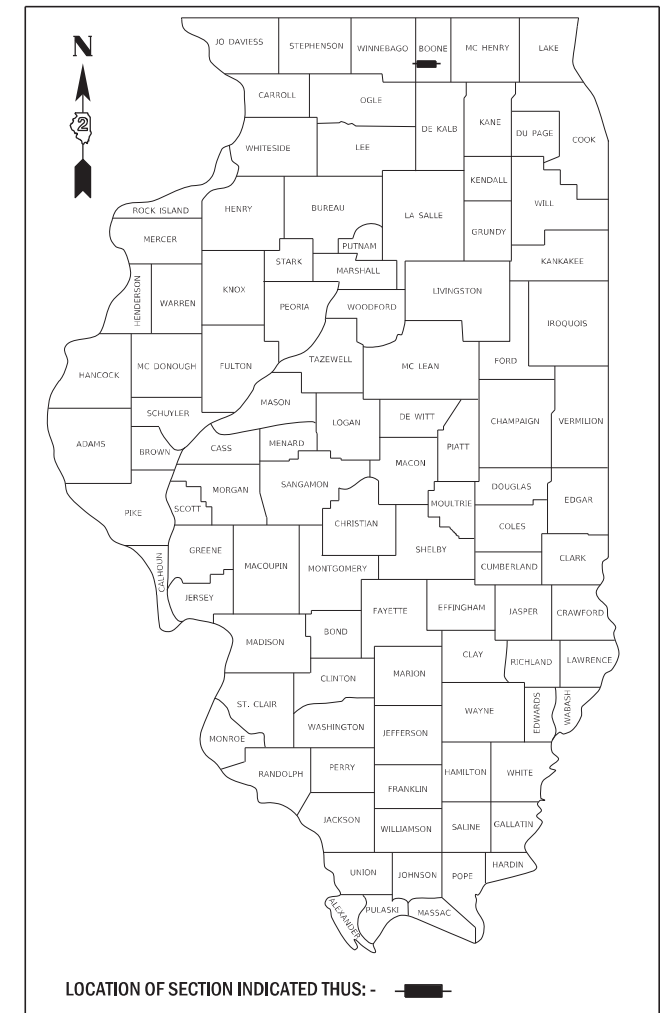
EXISTING STRUCTURE

S.N. 004-0004 (EB) A CONTINUOUS FOUR SPAN WITH 94'-0" MAIN SPANS AND 66'-9" AND 62'-3" END SPANS, ON A SKEW OF 47 25'

PROJECT ENDS
 STA. 1462 + 07



DATE: 03-30-2020
 EXPIRES 11/30/21



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED March 19, 2020

[Signature]
 REGIONAL ENGINEER

May 8, 2020
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 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
610001-08	SHOULDER INLET WITH CURB
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-16	TRAFFIC BARRIER TERMINAL, TYPE 6
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' T 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INERMITTENT, OR MOVING OPER., FOR SPEEDS ≥ 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 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 STRUCTURES WILL RETAIN THE SAME NUMBERS: 004-0004 (EB) & 004-9900 (WB).

PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 78001, EXCEPT AS FOLLOWS:

- ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
- ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
- THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OR TYPICAL LANDE AND EDGE LINES
- 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 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.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

2 1/4"

LOCATIONS(S):	US 20
MIXTURE USE(S):	SURFACE
PG:	SBS PG 70-22
DESIGN AIR VOIDS:	4.0% @ N90
MIXTURE COMPOSITION:	IL 9.5
FRICTION AGGREGATE:	E
MIXTURE WEIGHT:	119 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA
SUBLOT SIZE:	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 = Inelson	DESIGNED - LGN	REVISED -
	DRAWN - LGN	REVISED -
PLOT SCALE = 120.0000' / ft.	CHECKED - GFS	REVISED -
PLOT DATE = 3/30/2020	DATE - 3/30/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGHWAY STANDARDS AND GENERAL NOTES

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.
525	D2 BDR 2020-1	BOONE	34	02
				CONTRACT NO. 64P38
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CONSTRUCTION CODE: 0013 100% STATE

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
28000510	INLET FILTERS	EACH	8
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	451
40604174	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N90	TON	521
50102400	CONCRETE REMOVAL	CU YD	12.1
50157300	PROTECTIVE SHIELD	SQ YD	744
50300255	CONCRETE SUPERSTRUCTURE	CU YD	12.9
50300300	PROTECTIVE COAT	SQ YD	38
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,780
50800515	BAR SPLICERS	EACH	20
52000110	PREFORMED JOINT STRIP SEAL	FOOT	209
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	2,386
* 63302400	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 5	EACH	2
* 63302700	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 6	EACH	4
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2
67100100	MOBILIZATION	L SUM	1

* SPECIALITY ITEM

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	13,587
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	2,646
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,250.0
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,250.0
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	280.8
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	11,065
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,412
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1,505
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	14
* 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	56
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	14
* Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	54

* SPECIALITY ITEM

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	USER NAME = Inelson	DESIGNED - LGN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - GBG	REVISIED -	525					D2 BDR 2020-1	BOONE	34	03	
	PLOT SCALE = 240.0000' / ft. PLOT DATE = 3/30/2020	CHECKED - GFS	REVISIED -					CONTRACT NO. 64P38				
				SCALE N / A SHEET 1 OF 2 SHEETS STA. N / A TO STA. N / A			ILLINOIS FED. AID PROJECT					

SUMMARY OF QUANTITIES

CONSTRUCTION CODE: 0013 100% STATE

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
Z0021904	SILICONE JOINT SEALER, 1"	FOOT	208
Z0041895	POLYMER CONCRETE	CU FT	36.9
X0326440	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)	SQ YD	1,519
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	4,278
X0931400	INLET BOXES TO BE ADJUSTED (SPECIAL)	EACH	8
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	2
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	6,293
* X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	2,204
* X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	275

* SPECIALITY ITEM

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	USER NAME = Inelson	DESIGNED - LGN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - GBG	REVISED -	525			D2 BDR 2020-1	BOONE	34	04	
	PLOT SCALE = 240.0000' / ft.	CHECKED - GFS	REVISED -			CONTRACT NO. 64P38				
PLOT DATE = 3/30/2020	DATE - 3/30/20	REVISED -	SCALE N / A SHEET 2 OF 2 SHEETS STA. N / A TO STA. N / A			ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

28000510 INLET FILTERS

STATION	EACH	REMARKS
US - 20		
1440+85 - LT	1	WEST BOUND BRIDGE
1441+19 - RT	1	WEST BOUND BRIDGE
1441+53 - LT	1	EAST BOUND BRIDGE
1441+88 - RT	1	EAST BOUND BRIDGE
1444+36 - LT	1	WEST BOUND BRIDGE
1444+67 - RT	1	WEST BOUND BRIDGE
1445+02 - LT	1	EAST BOUND BRIDGE
1445+38 - RT	1	EAST BOUND BRIDGE
PROJECT TOTAL	8	

40600295 POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)

STATION	POUND	REMARKS
US - 20		0.025 LB/SF 1 APP ON BIT
STAGE I		
1439+93 - 1441+24	55	WEST BOUND APPROACH & SHOULDER
1444+26 - 1445+63	62	WEST BOUND APPROACH & SHOULDER
1440+49 - 1441+80	50	EAST BOUND APPROACH & SHOULDER
1445+06 - 1446+39	63	EAST BOUND APPROACH & SHOULDER
STAGE II		
1439+93 - 1441+41	58	WEST BOUND APPROACH & SHOULDER
1444+45 - 1445+63	49	WEST BOUND APPROACH & SHOULDER
1440+49 - 1441+99	65	EAST BOUND APPROACH & SHOULDER
1445+23 - 1446+39	49	EAST BOUND APPROACH & SHOULDER
PROJECT TOTAL	451	

40604174 POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N90

STATION	TON	REMARKS
US - 20		119 LB / SY / IN
STAGE I		
1439+93 - 1441+24	33	WEST BOUND APPROACH & SHOULDER
1444+26 - 1445+63	37	WEST BOUND APPROACH & SHOULDER
1440+49 - 1441+80	30	EAST BOUND APPROACH & SHOULDER
1445+06 - 1446+39	38	EAST BOUND APPROACH & SHOULDER
STAGE II		
1439+93 - 1441+41	35	WEST BOUND APPROACH & SHOULDER
1444+45 - 1445+63	29	WEST BOUND APPROACH & SHOULDER
1440+49 - 1441+99	39	EAST BOUND APPROACH & SHOULDER
1445+23 - 1446+39	30	EAST BOUND APPROACH & SHOULDER
TOTAL STRUCTURAL QUANTITY SEE TOTAL BILL OF MATERIAL ON SHEET 15		
PROJECT TOTAL	271	

63302400 REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 5

STATION	EACH	REMARKS
US - 20		
STAGE I		
WEST BOUND DEPARTURE	1	
STAGE II		
EAST BOUND DEPARTURE	1	
PROJECT TOTAL	2	

63302700 REMOVE AND REERECT TRAFFIC TERMINALS, TYPE 6

STATION	EACH	REMARKS
US - 20		
STAGE I		
EAST BOUND APPROACH	1	
WEST BOUND APPROACH	1	
STAGE II		
EAST BOUND APPROACH	1	
WEST BOUND APPROACH	1	
PROJECT TOTAL	4	

70100205 TRAFFIC CONTROL AND PROTECTION, STANDARD 701401

STATION	EACH	REMARKS
I - 90		
EAST BOUND LANES	1	PRIOR TO CONSTRUCTION
WEST BOUND LANES	1	PRIOR TO CONSTRUCTION
PROJECT TOTAL	2	

70300220* TEMPORARY PAVEMENT MARKING - LINE 4"

STATION	FOOT	REMARKS
US - 20		
STAGE 1 - EAST BOUND LANES		
1423+50.2 - 1435+30.4	1,181	SOLID - YELLOW
1436+05.0 - 1438+50.2	246	SOLID - YELLOW
LT 1438+50.2 - 1448+52.0	1,006	SOLID - YELLOW
RT 1438+50.2 - 1452+09.3	1,363	SOLID - WHITE
STAGE 1 - WEST BOUND LANES		
LT 1438+70.4 - 1447+60.7	891	SOLID - WHITE
RT 1440+06.6 - 1447+60.7	755	SOLID - YELLOW
1447+60.7 - 1450+95.4	367	SOLID - WHITE
RT 1451+88.9 - 1457+23.4	535	SOLID - YELLOW
LT 1455+54.6 - 1462+60.7	709	SOLID - WHITE
STAGE 2 - EAST BOUND LANES		
RT 1423+50.2 - 1433+58.6	1,008	SOLID - WHITE
RT 1435+71.5 - 1452+12.6	1,683	SOLID - WHITE
LT 1438+50.2 - 1445+90.2	741	SOLID - YELLOW
STAGE 2 - WEST BOUND LANES		
RT 1438+58.4 - 1450+82.0	1,228	SOLID - YELLOW
LT 1439+47.9 - 1447+60.7	813	SOLID - WHITE
1452+00.0 - 1462+60.7	1,061	SOLID - YELLOW
PROJECT TOTAL	13,587	

70300250* TEMPORARY PAVEMENT MARKING - LINE 8"

STATION	FOOT	REMARKS
US - 20		
STAGE 1 - EAST BOUND LANES		
1448+39.9 - 1452+12.6	757	SOLID - WHITE - LEFT TURN LANE
STAGE 1 - WEST BOUND LANES		
1451+91.0 - 1455+70.5	770	SOLID - WHITE - RIGHT TURN LANE
STAGE 2 - EAST BOUND LANES		
1433+50.2 - 1435+12.3	332	SOLID - WHITE - RIGHT TURN LANE
STAGE 2 - WEST BOUND LANES		
1434+80.4 - 1438+70.7	787	SOLID - WHITE - LEFT TURN LANE
PROJECT TOTAL	2,646	

70400100 TEMPORARY CONCRETE BARRIER

STATION	FOOT	REMARKS
US - 20		
STAGE 1		
1439+88 - 1446+25	637.5	EAST BOUND
1440+08 - 1446+23	612.5	WEST BOUND
PROJECT TOTAL	1,250.0	

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

STATION	FOOT	REMARKS
US - 20		
STAGE 2		
1439+88 - 1446+25	637.5	EAST BOUND
1440+08 - 1446+23	612.5	WEST BOUND
PROJECT TOTAL	1,250.0	

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

STATION	EACH	REMARKS
US - 20		
1439+88	1	STAGE 1 - EAST BOUND
1446+23	1	STAGE 1 - WEST BOUND
PROJECT TOTAL	2	

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

STATION	EACH	REMARKS
US - 20		
1439+88	1	STAGE 2 - EAST BOUND
1446+23	1	STAGE 2 - WEST BOUND
PROJECT TOTAL	2	

78000100 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS

STATION	SQ FT	REMARKS
US - 20		
POST STAGE 1 - EAST BOUND LANES		
1447+98.4 - 1450+59.0	46.8	3 - LEFT TURN ARROWS - WHITE
POST STAGE 1 - WEST BOUND LANES		
1451+99.6 - 1455+36.4	62.4	4 - RIGHT TURN ARROWS - WHITE
POST STAGE 2 - EAST BOUND LANES		
1433+57.3 - 1434+85.5	31.2	2 - RIGHT TURN ARROWS - WHITE
1448+53.0 - 1450+58.2	46.8	3 - RIGHT TURN ARROWS - WHITE
POST STAGE 2 - WEST BOUND LANES		
1436+36.5 - 1438+72.9	31.2	2 - LEFT TURN ARROWS - WHITE
1452+03.0 - 1455+36.4	62.4	4 - LEFT TURN ARROWS - WHITE
PROJECT TOTAL	280.8	

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SCHEDULE OF QUANTITIES

**78000200 THERMOPLASTIC PAVEMENT MARKING
- LINE 4"**

STATION	FOOT	REMARKS
US - 20		
POST STAGE 1 - EAST BOUND LANES		
1423+50.2 - 1435+22.0	1,169	N. EDGE LINE - YELLOW
1436+11.5 - 1438+50.2	236	N. EDGE LINE - YELLOW
1446+24.6 - 1450+93.8	477	N. EDGE LINE - YELLOW
POST STAGE 1 - WEST BOUND LANES		
1447+60.7 - 1450+99.0	381	N. EDGE LINE - WHITE
1451+59.6 - 1462+60.7	1,124	N. EDGE LINE - WHITE
POST STAGE 2 - EAST BOUND LANES		
1423+50.2 - 1435+37.8	1,207	S. EDGE LINE - WHITE
1438+50.2 - 1446+24.6	775	N. EDGE LINE - YELLOW
1435+70.5 - 1451+12.2	1,591	S. EDGE LINE - WHITE
1451+59.7 - 1452+12.6	86	S. EDGE LINE - WHITE
1451+76.5 - 1452+12.6	44	N. EDGE LINE - YELLOW
POST STAGE 2 - WEST BOUND LANES		
1434+80.4 - 1435+22.1	74	S. EDGE LINE - YELLOW
1434+80.4 - 1447+60.7	1,282	N. EDGE LINE - WHITE
1436+11.5 - 1450+93.8	1,529	S. EDGE LINE - YELLOW
1451+76.5 - 1462.60.7	1,090	S. EDGE LINE - YELLOW
PROJECT TOTAL	11,065	

**78000400 THERMOPLASTIC PAVEMENT MARKING
- LINE 6"**

STATION	FOOT	REMARKS
US - 20		
POST STAGE 1 - EAST BOUND		
1447+62.0 - 1452+12.6	113	SKIP DASH - WHITE
POST STAGE 2 - EAST BOUND		
1423+50.2 - 1447+62.0	603	SKIP DASH - WHITE
POST STAGE 2 - WEST BOUND		
1434+80.4 - 1462+60.7	696	SKIP DASH - WHITE
PROJECT TOTAL	1,412	

**78000500 THERMOPLASTIC PAVEMENT MARKING
- LINE 8"**

STATION	FOOT	REMARKS
US - 20		
POST STAGE 1 - EAST BOUND		
LT 1447+98.4 - 1450+59.0	262	LEFT TURN LANE - WHITE
POST STAGE 1 - WEST BOUND		
LT 1451+99.6 - 1455+36.4	337	RIGHT TURN LANE - WHITE
POST STAGE 2 - EAST BOUND		
RT 1433+57.3 - 1434+85.5	127	RIGHT TURN LANE - WHITE
RT 1448+53.0 - 1450+58.2	208	RIGHT TURN LANE - WHITE
POST STAGE 2 - WEST BOUND		
RT 1436+36.5 - 1438+72.9	237	LEFT TURN LANE - WHITE
RT 1452+03.0 - 1455+36.4	334	LEFT TURN LANE - WHITE
PROJECT TOTAL	1,505	

78100100 RAISED REFLECTIVE PAVEMENT MARKER

STATION	EACH	REMARKS
US - 20		
1440+49 - 1446+39	7	CENTER LINE - EAST BOUND
1439+93 - 1445+63	7	CENTER LINE - WEST BOUND
PROJECT TOTAL	14	

78200010 BARRIER WALL REFLECTORS, TYPE B

STATION	EACH	REMARKS
US - 20		
STAGE I		
EAST BOUND BRIDGE PARAPET	14	25' CENTERS
WEST BOUND BRIDGE PARAPET	14	25' CENTERS
STAGE II		
EAST BOUND BRIDGE PARAPET	14	25' CENTERS
WEST BOUND BRIDGE PARAPET	14	25' CENTERS
PROJECT TOTAL	56	

**78300200 RAISED REFLECTIVE PAVEMENT MARKER
REMOVAL**

STATION	EACH	REMARKS
US - 20		
1440+49 - 1446+39	7	CENTER LINE - EAST BOUND
1439+93 - 1445+63	7	CENTER LINE - WEST BOUND
PROJECT TOTAL	14	

**X0326440 SURFACE REMOVAL,
VARIABLE DEPTH (SPECIAL)**

STATION	SQ YD	REMARKS
US - 20		
STAGE I		
1439+93 - 1440+81	181	WEST BOUND APPROACH & SHOULDER
1444+56 - 1445+63	210	WEST BOUND APPROACH & SHOULDER
1446+75 - 1441+69	159	EAST BOUND APPROACH & SHOULDER
1445+36 - 1446+39	220	EAST BOUND APPROACH & SHOULDER
STAGE II		
1439+93 - 1441+10	210	WEST BOUND APPROACH & SHOULDER
1444+75 - 1445+63	154	WEST BOUND APPROACH & SHOULDER
1440+49 - 1441+69	228	EAST BOUND APPROACH & SHOULDER
1445+53 - 1446+39	157	EAST BOUND APPROACH & SHOULDER
PROJECT TOTAL	1,519	

**X0327980* PAVEMENT MARKING REMOVAL -
WATER BLASTING**

STATION	SQ FT	REMARKS
US - 20		
STAGE 1 - EAST BOUND		
1423+50.2 - 1440+62.7	215	CENTER LINE, 6" SKIP DASH
LT 1423+50.2 - 1435+21.7	391	N. EDGE LINE, 4" SOLID
LT 1436+03.2 - 1440+62.7	154	N. EDGE LINE, 4" SOLID
RT 1438+50.2 - 1450+39.8	397	S. EDGE LINE, 4" SOLID
1446+24.5 - 1452+12.6	295	CENTER LINE, 6" SKIP DASH
LT 1447+98.4 - 1450+59.0	174	LEFT TURN LANE, 8" SOLID
LT 1448+12.4	16	LEFT TURN ARROW
RT 1448+53.0 - 1450+58.2	137	RIGHT TURN LANE, 8" SOLID
STAGE 1 - WEST BOUND		
1438+70.4 - 1440+07.9	18	CENTER LINE, 6" SKIP DASH
RT 1440+06.6 - 1447+60.7	252	S. EDGE LINE, 4" SOLID
1445+48.2 - 1462+60.7	215	CENTER LINE, 6" SKIP DASH
LT 1445+48.2 - 1450+95.4	190	N. EDGE LINE, 4" SOLID
1451+93.2 - 1455+36.4	229	RIGHT TURN LANE, 8" SOLID
1455+13.8	16	RIGHT TURN ARROW
RT 1452+03.0 - 1455+36.4	223	LEFT TURN LANE, 8" SOLID
LT 1455+54.6 - 1462+60.7	236	N. EDGE LINE, 4" SOLID
STAGE 2 - EAST BOUND		
RT 123+50.2 - 1433+58.6	337	S. EDGE LINE, 4" SOLID
1433+57.3 - 1434+85.5	86	RIGHT TURN LANE, 8" SOLID
1433+77.6	16	RIGHT TURN ARROW
RT 1435+70.5 - 1438+50.2	94	S. EDGE LINE, 4" SOLID
STAGE 2 - WEST BOUND		
1434+80.4 - 1438+70.4	49	CENTER LINE, 6" SKIP DASH
1436+36.5 - 1438+72.9	158	LEFT TURN LANE, 8" SOLID
LT 1439+47.9 - 1440+07.9	20	N. EDGE LINE, 4" SOLID
RT 1451+82.2 - 1462+60.7	360	S. EDGE LINE, 4" SOLID
PROJECT TOTAL	4,278	

**X0931400* INLET BOXES TO BE ADJUSTED
(SPECIAL)**

STATION	EACH	REMARKS
US - 20		
1440+85 - LT	1	WEST BOUND BRIDGE
1441+19 - RT	1	WEST BOUND BRIDGE
1441+53 - LT	1	EAST BOUND BRIDGE
1441+88 - RT	1	EAST BOUND BRIDGE
1444+36 - LT	1	WEST BOUND BRIDGE
1444+67 - RT	1	WEST BOUND BRIDGE
1445+02 - LT	1	EAST BOUND BRIDGE
1445+38 - RT	1	EAST BOUND BRIDGE
PROJECT TOTAL	8	

**X7010208* TRAFFIC CONTROL AND PROTECTION,
STANDARD 701402 (SPECIAL)**

STATION	EACH	REMARKS
US - 20		
EAST BOUND LANES	1	TEMPORARY PAVEMENT MARKINGS
WEST BOUND LANES	1	TEMPORARY PAVEMENT MARKINGS
PROJECT TOTAL	2	

**X7030005* TEMPORARY PAVEMENT MARKING
REMOVAL**

STATION	SQ FT	REMARKS
US - 20		
STAGE 2		
ENTIRE STAGE 1	3,369	TEMPORARY PAVEMENT MARKINGS
ENTIRE STAGE 2	2,924	TEMPORARY PAVEMENT MARKINGS
PROJECT TOTAL	6,293	

**X7830070* GROOVING FOR RECESSED PAVEMENT
MARKING 5"**

STATION	FOOT	REMARKS
US - 20		
LT 1440+62.7 - 1446+24.6	562	EAST BOUND
RT 1440+62.7 - 1446+24.6	562	EAST BOUND
LT 1440+07.9 - 1445+48.2	540	WEST BOUND
RT 1440+07.9 - 1445+48.2	540	WEST BOUND
PROJECT TOTAL	2,204	

**X7830074* GROOVING FOR RECESSED PAVEMENT
MARKING 7"**

STATION	FOOT	REMARKS
US - 20		
1440+62.7 - 1446+24.6	140	EAST BOUND
1440+07.9 - 1445+48.2	135	WEST BOUND
PROJECT TOTAL	275	

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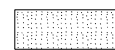

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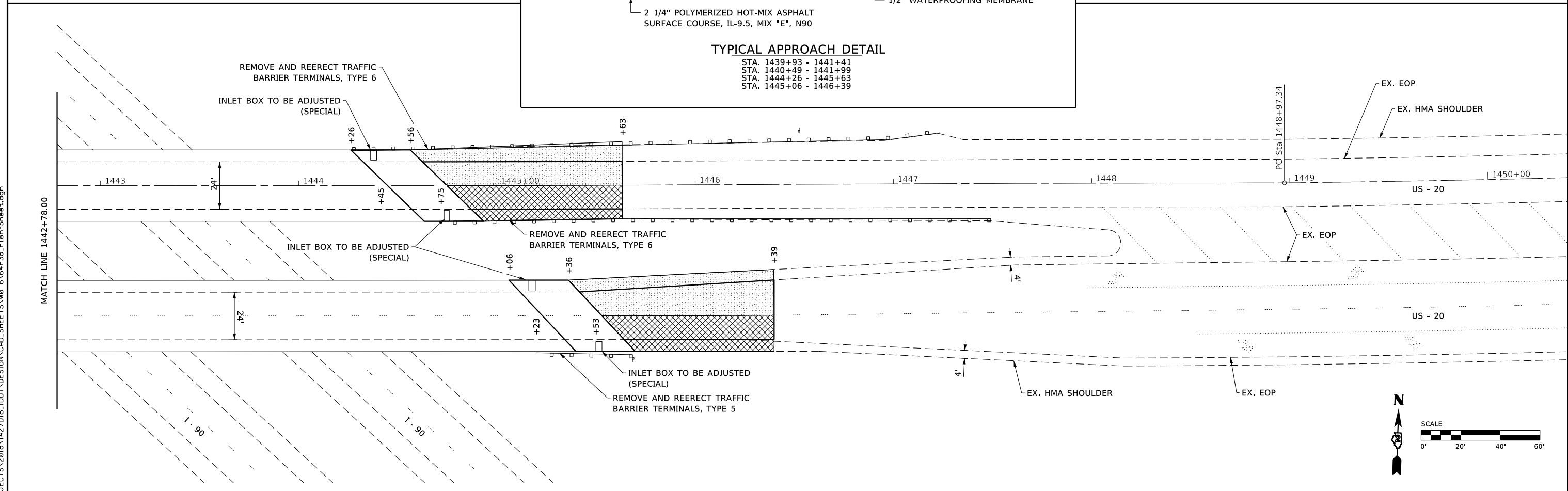
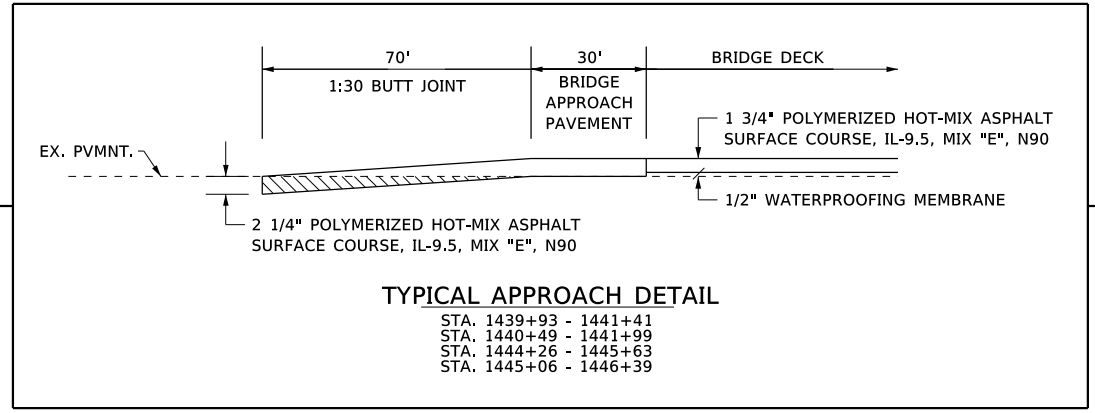
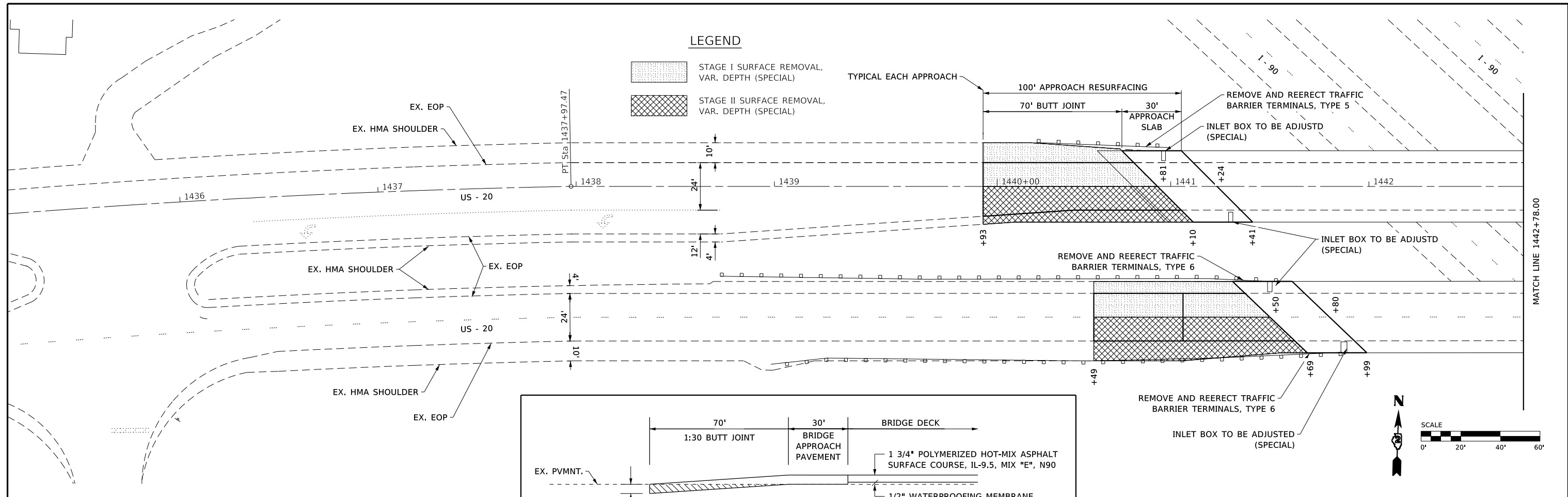
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DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	06
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

LEGEND

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



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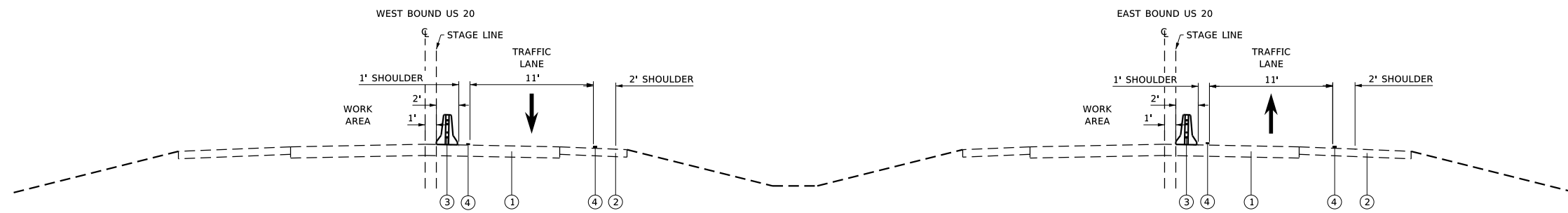


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DEPARTMENT OF TRANSPORTATION**

REMOVAL & IMPROVEMENT PLAN
SCALE 1" : 50' SHEET 1 OF 1 SHEETS STA. 1435+00 TO STA. 1450+00

F.A.P. RTE. 525	SECTION D2 BDR 2020-1	COUNTY BOONE	TOTAL SHEETS 34	SHEET NO. 07
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				



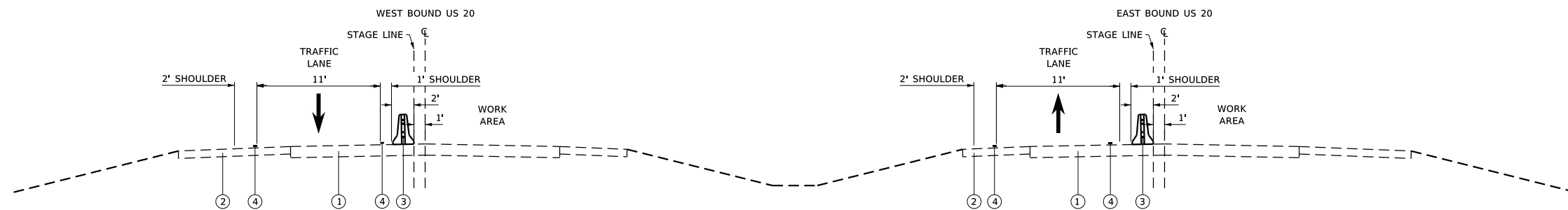
- ① EXISTING HMA ROADWAY
- ② EXISTING HMA SHOULDER
- ③ TEMPORARY CONCRETE BARRIER
STA: 1439+05.8 TO 1446+24.5 - EAST BOUND
STA: 1440+07.9 TO 1446+85.2 - WEST BOUND
- ④ TEMPORARY PAVEMENT MARKING - 4"

STAGE I CONSTRUCTION TYPICAL SECTION

STA: 1439+03.8 TO 1447+40.6 - EAST BOUND
 STA: 1439+90.9 TO 1447+06.3 - WEST BOUND
 (BRIDGE OMITTED FROM)
 (STA: 1441+36.6 TO 1445+52.9 - EAST BOUND)
 (STA: 1440+80.9 TO 1444+74.7 - WEST BOUND)

NOTES

TRAFFIC LANE WIDTHS ARE REDUCED TO 10FT AND INCLUDE 2FT SHOULDERS ACROSS THE EXISTING STRUCTURES. THE LANE WIDTHS WILL TRANSITION FROM 12FT TO 10FT, AT THE FOLLOWING LOCATIONS:
 STA: 1439+03.8 TO 1440+42.8 - EAST BOUND
 STA: 1445+69.5 TO 1447+40.6 - EAST BOUND
 STA: 1439+90.9 TO 1440+62.9 - WEST BOUND
 STA: 1445+68.4 TO 1447+06.3 - WEST BOUND



- ① EXISTING HMA ROADWAY
- ② EXISTING HMA SHOULDER
- ③ TEMPORARY CONCRETE BARRIER
STA: 1439+13.3 TO 1446+24.5 - EAST BOUND
STA: 1440+07.9 TO 1447+07.7 - WEST BOUND
- ④ TEMPORARY PAVEMENT MARKING - 4"

STAGE II CONSTRUCTION TYPICAL SECTION

STA: 1439+04.7 TO 1447+43.8 - EAST BOUND
 STA: 1440+02.9 TO 1447+06.3 - WEST BOUND
 (BRIDGE OMITTED FROM)
 (STA: 1441+36.6 TO 1445+52.9 - EAST BOUND)
 (STA: 1440+80.9 TO 1444+74.7 - WEST BOUND)

NOTES

TRAFFIC LANE WIDTHS ARE REDUCED TO 10FT AND INCLUDE 2FT SHOULDERS ACROSS THE EXISTING STRUCTURE. THE LANE WIDTHS WILL TRANSITION FROM 12FT TO 10FT, AT THE FOLLOWING LOCATIONS:
 STA: 1439+04.7 TO 1440+42.7 - EAST BOUND
 STA: 1445+69.5 TO 1447+43.8 - EAST BOUND
 STA: 1440+02.9 TO 1440+62.9 - WEST BOUND
 STA: 1445+68.2 TO 1447+06.3 - WEST BOUND

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DRAWN - GBG	REVISIONS -	
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STAGE I & II CONSTRUCTION TYPICAL SECTIONS

SCALE N / A SHEET 1 OF 5 SHEETS STA. N / A TO STA. N / A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	08
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

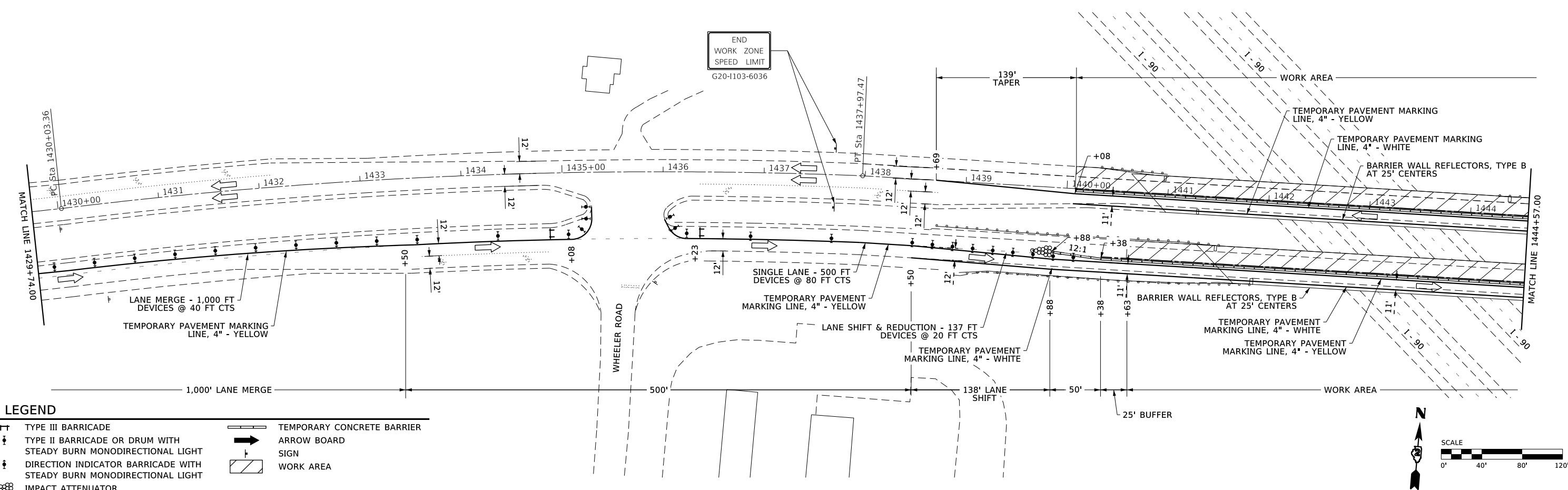
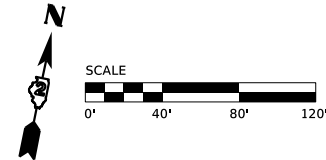
PRE US 20 CONSTRUCTION NOTES:

- 1) PROTECTIVE SHIELDING SHALL BE INSTALLED UNDER THE BRIDGE DECK PRIOR TO BEGINNING CONSTRUCTION ON US 20. TRAFFIC SHALL BE MAINTAINED ON I-90 WITH DAILY LANE CLOSURES USING STANDARDS 701400-09, 701401-12, AND 701901-08. LANE CLOSURES SHALL BE REMOVED AT THE END OF EACH WORK DAY.

STAGE I CONSTRUCTION NOTES:

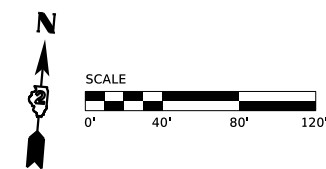
- 1) REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS, PLACE TEMPORARY PAVEMENT MARKINGS, INSTALL ADVANCED WARNING SIGNS FOR LANE CLOSURE PER STANDARD 701422-10, INSTALL STAGE I CONCRETE BARRIER AND TRAFFIC CONTROL USING STANDARD 701426-09. CLOSING THE INTERIOR LANE, SHIFT TRAFFIC TO THE EXTERIOR LANE FOR BOTH EAST AND WEST BOUND TRAFFIC ON US 20.
- 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 1 PORTION OF 1 3/4" HMA SURFACE AND HMA SHOULDER.
- 5) 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 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 EAST AND WEST BOUND TRAFFIC ON US 20.

ADVANCED WARNING EAST BOUND
PLACE ADVANCED WARNING SIGNAGE FOR LANE CLOSURE PER IDOT STANDARD 701422-12. REDUCE POSTED SPEED OF 55 MPH TO WORK ZONE SPEED LIMIT OF 45 MPH.



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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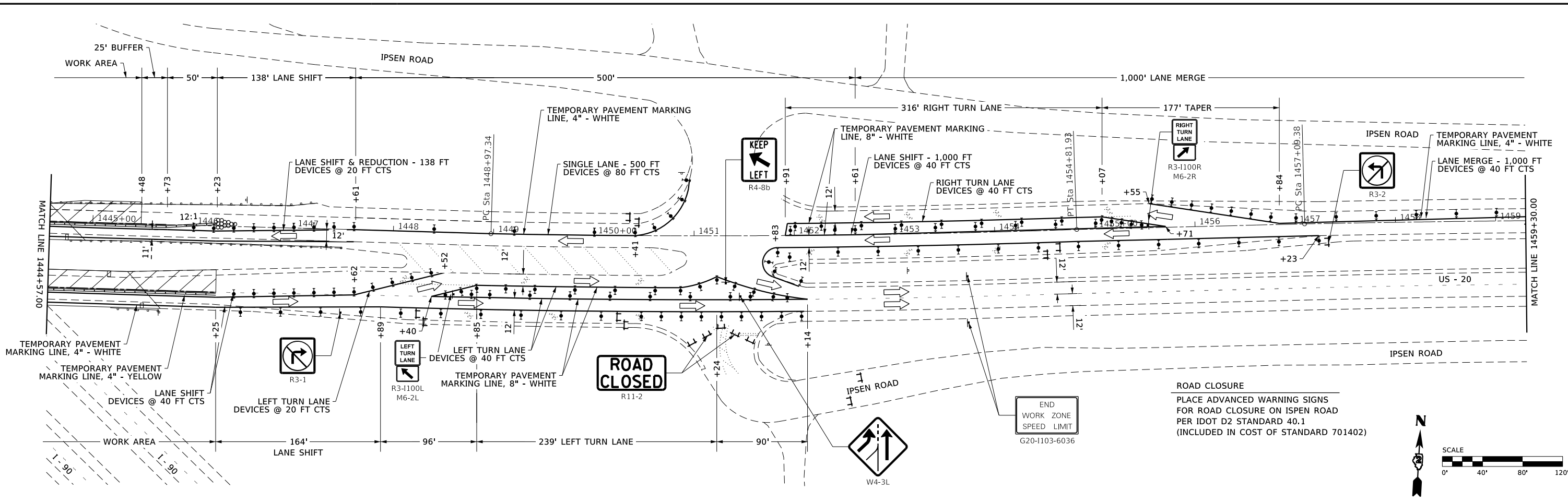
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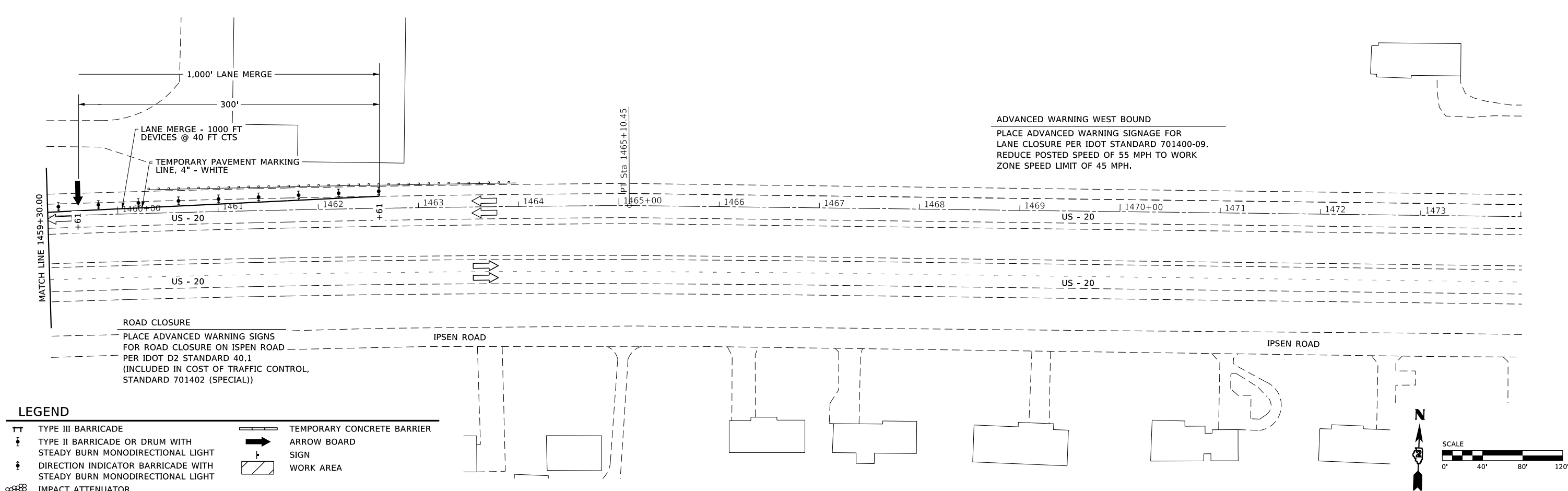
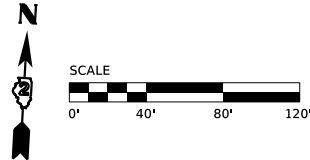
TRAFFIC CONTROL PLAN - STAGE 1
SCALE 1 : 100 SHEET 2 OF 5 SHEETS STA. 1415+00.00 TO STA. 1444+57.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	09
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

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ROAD CLOSURE
 PLACE ADVANCED WARNING SIGNS FOR ROAD CLOSURE ON IPSEN ROAD PER IDOT D2 STANDARD 40.1 (INCLUDED IN COST OF STANDARD 701402)

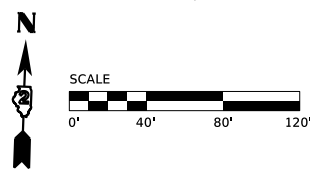


ADVANCED WARNING WEST BOUND
 PLACE ADVANCED WARNING SIGNAGE FOR LANE CLOSURE PER IDOT STANDARD 701400-09. REDUCE POSTED SPEED OF 55 MPH TO WORK ZONE SPEED LIMIT OF 45 MPH.

ROAD CLOSURE
 PLACE ADVANCED WARNING SIGNS FOR ROAD CLOSURE ON IPSEN ROAD PER IDOT D2 STANDARD 40.1 (INCLUDED IN COST OF TRAFFIC CONTROL, STANDARD 701402 (SPECIAL))

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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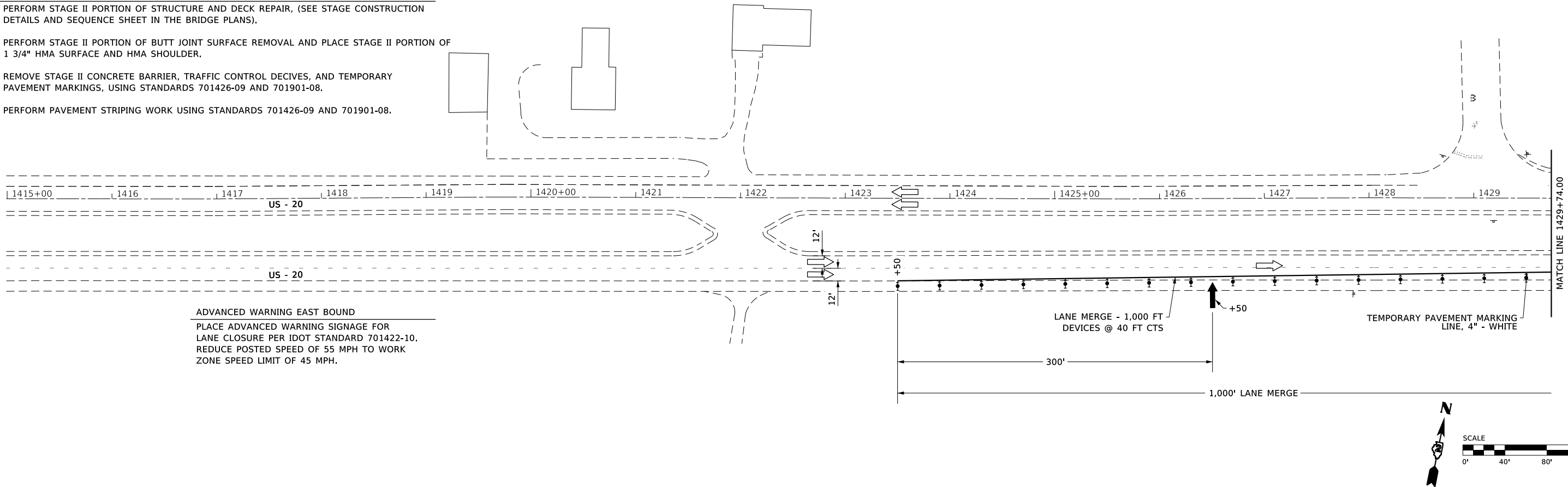
TRAFFIC CONTROL PLAN - STAGE 1

SCALE 1 : 100 SHEET 3 OF 5 SHEETS STA. 1444+57.00 TO STA. 1474+00.00

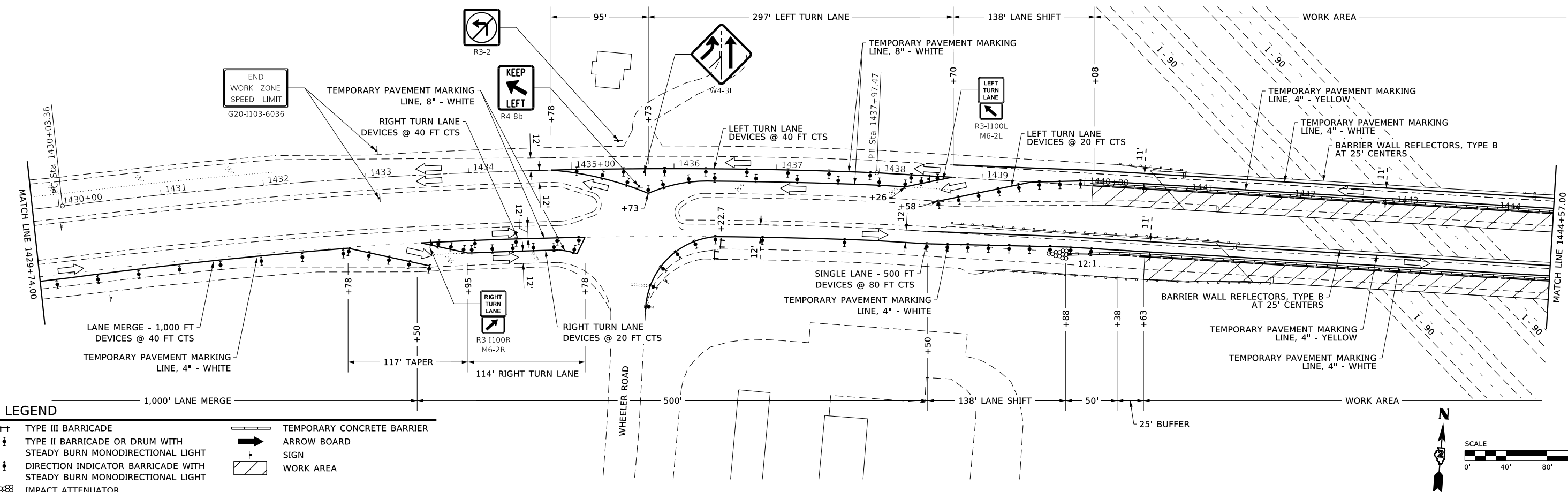
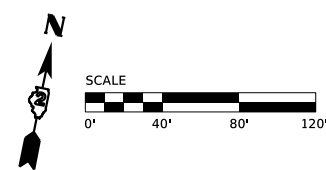
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	10
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

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 DECIVES, AND TEMPORARY PAVEMENT MARKINGS, USING STANDARDS 701426-09 AND 701901-08.
- 3) PERFORM PAVEMENT STRIPING WORK USING STANDARDS 701426-09 AND 701901-08.

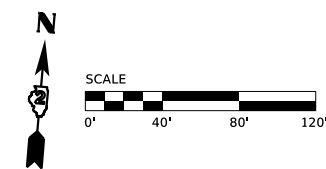


ADVANCED WARNING EAST BOUND
 PLACE ADVANCED WARNING SIGNAGE FOR LANE CLOSURE PER IDOT STANDARD 701422-10. REDUCE POSTED SPEED OF 55 MPH TO WORK ZONE SPEED LIMIT OF 45 MPH.



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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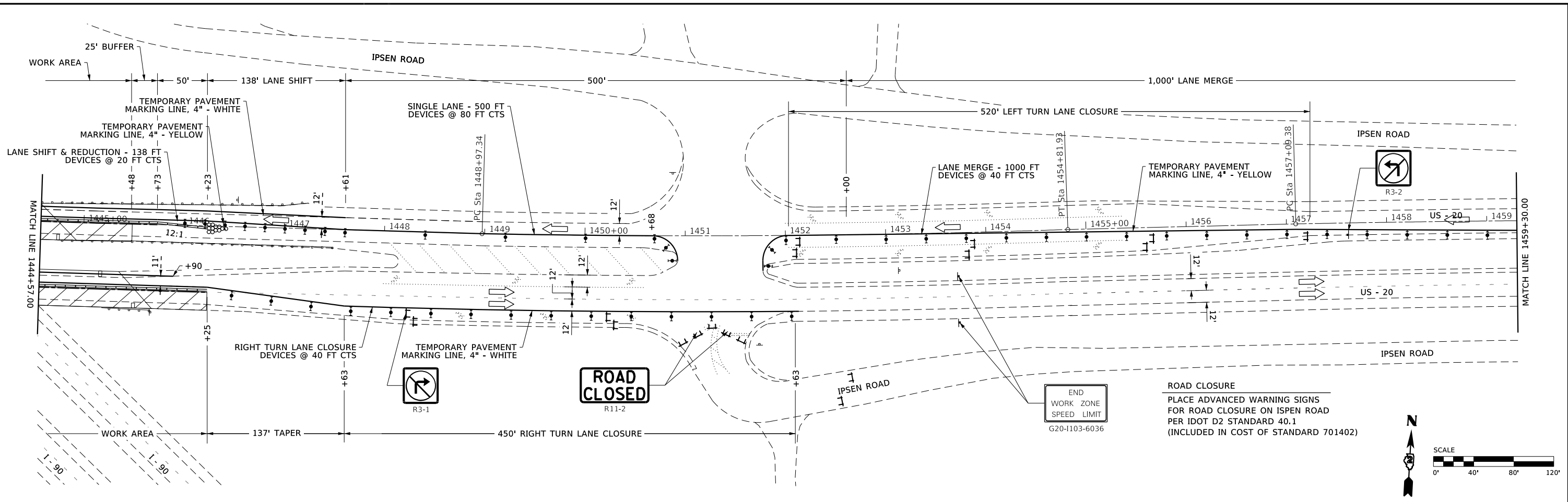
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

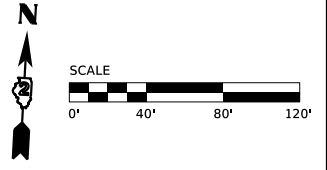
TRAFFIC CONTROL PLAN - STAGE 2

SCALE 1 : 100 SHEET 4 OF 5 SHEETS STA. 1415+00.00 TO STA. 1444+57.00

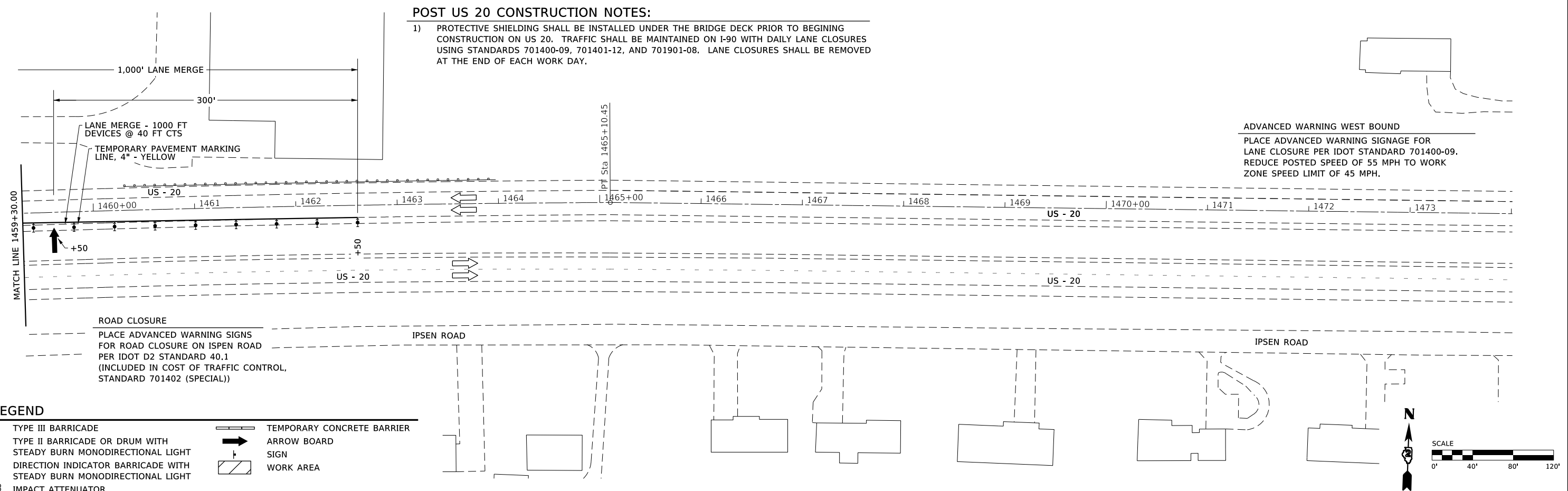
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525	D2 BDR 2020-1	BOONE	34	11
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				



ROAD CLOSURE
 PLACE ADVANCED WARNING SIGNS FOR ROAD CLOSURE ON IPSEN ROAD PER IDOT D2 STANDARD 40.1 (INCLUDED IN COST OF STANDARD 701402)



POST US 20 CONSTRUCTION NOTES:
 1) PROTECTIVE SHIELDING SHALL BE INSTALLED UNDER THE BRIDGE DECK PRIOR TO BEGINNING CONSTRUCTION ON US 20. TRAFFIC SHALL BE MAINTAINED ON I-90 WITH DAILY LANE CLOSURES USING STANDARDS 701400-09, 701401-12, AND 701901-08. LANE CLOSURES SHALL BE REMOVED AT THE END OF EACH WORK DAY.

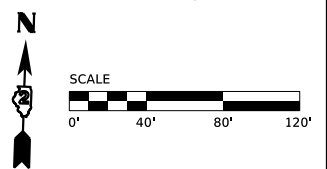


ADVANCED WARNING WEST BOUND
 PLACE ADVANCED WARNING SIGNAGE FOR LANE CLOSURE PER IDOT STANDARD 701400-09. REDUCE POSTED SPEED OF 55 MPH TO WORK ZONE SPEED LIMIT OF 45 MPH.

ROAD CLOSURE
 PLACE ADVANCED WARNING SIGNS FOR ROAD CLOSURE ON IPSEN ROAD PER IDOT D2 STANDARD 40.1 (INCLUDED IN COST OF TRAFFIC CONTROL, STANDARD 701402 (SPECIAL))

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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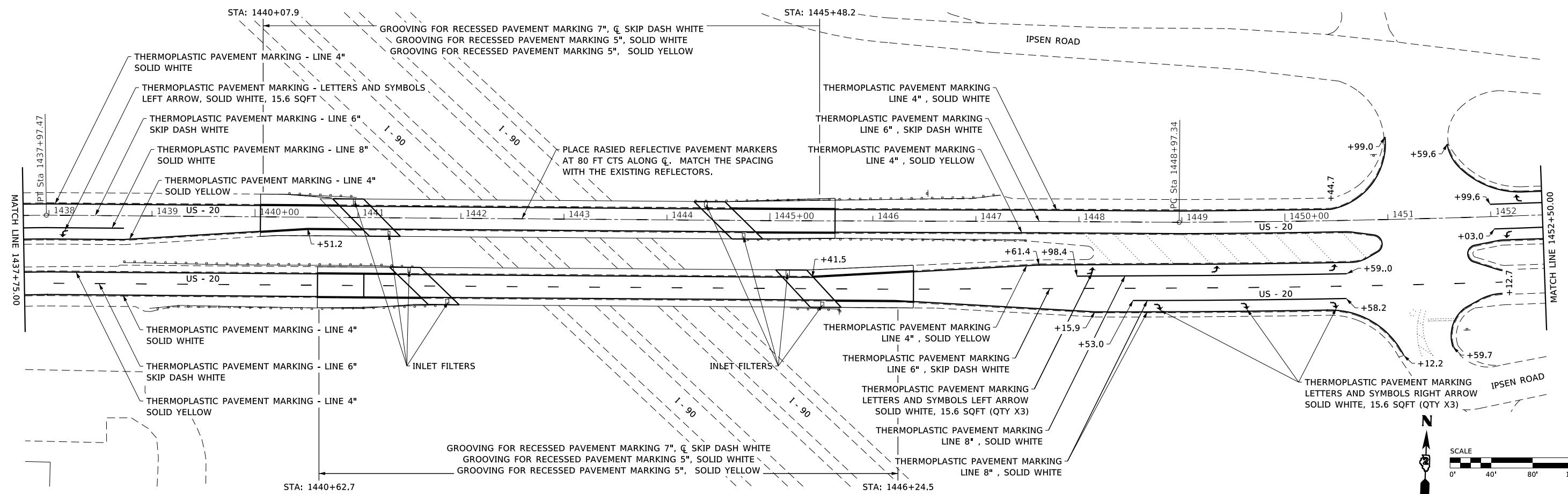
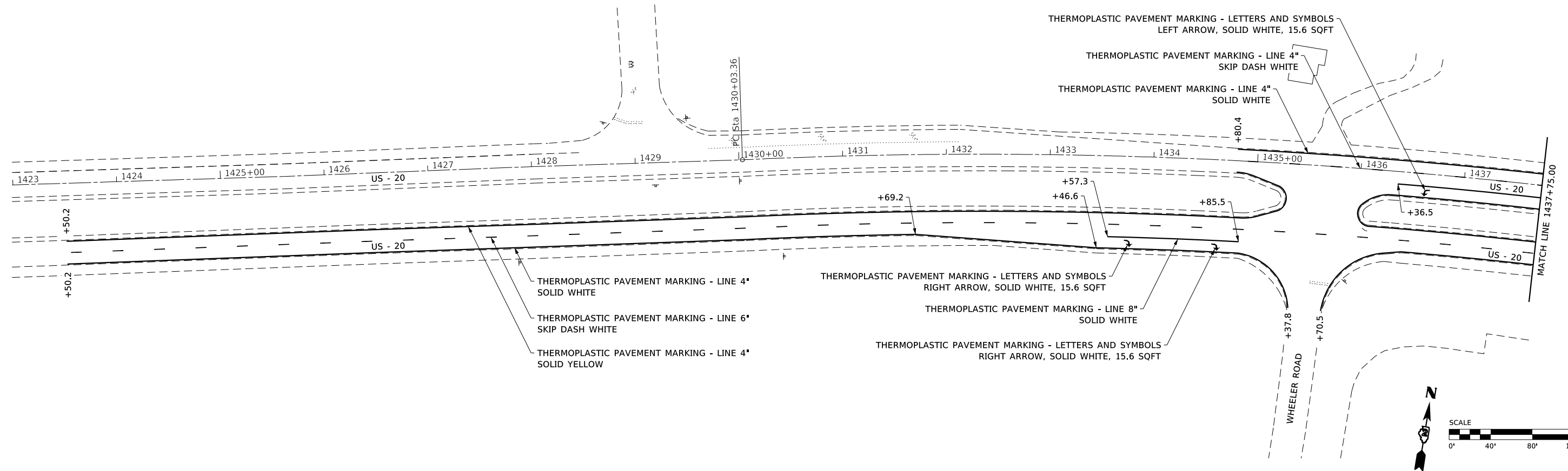
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 DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL PLAN - STAGE 2

SCALE 1 : 100 SHEET 5 OF 5 SHEETS STA. 1444+57.00 TO STA. 1474+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	12
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				



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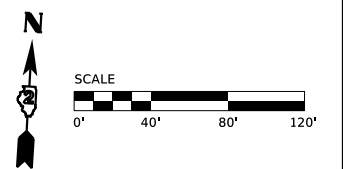
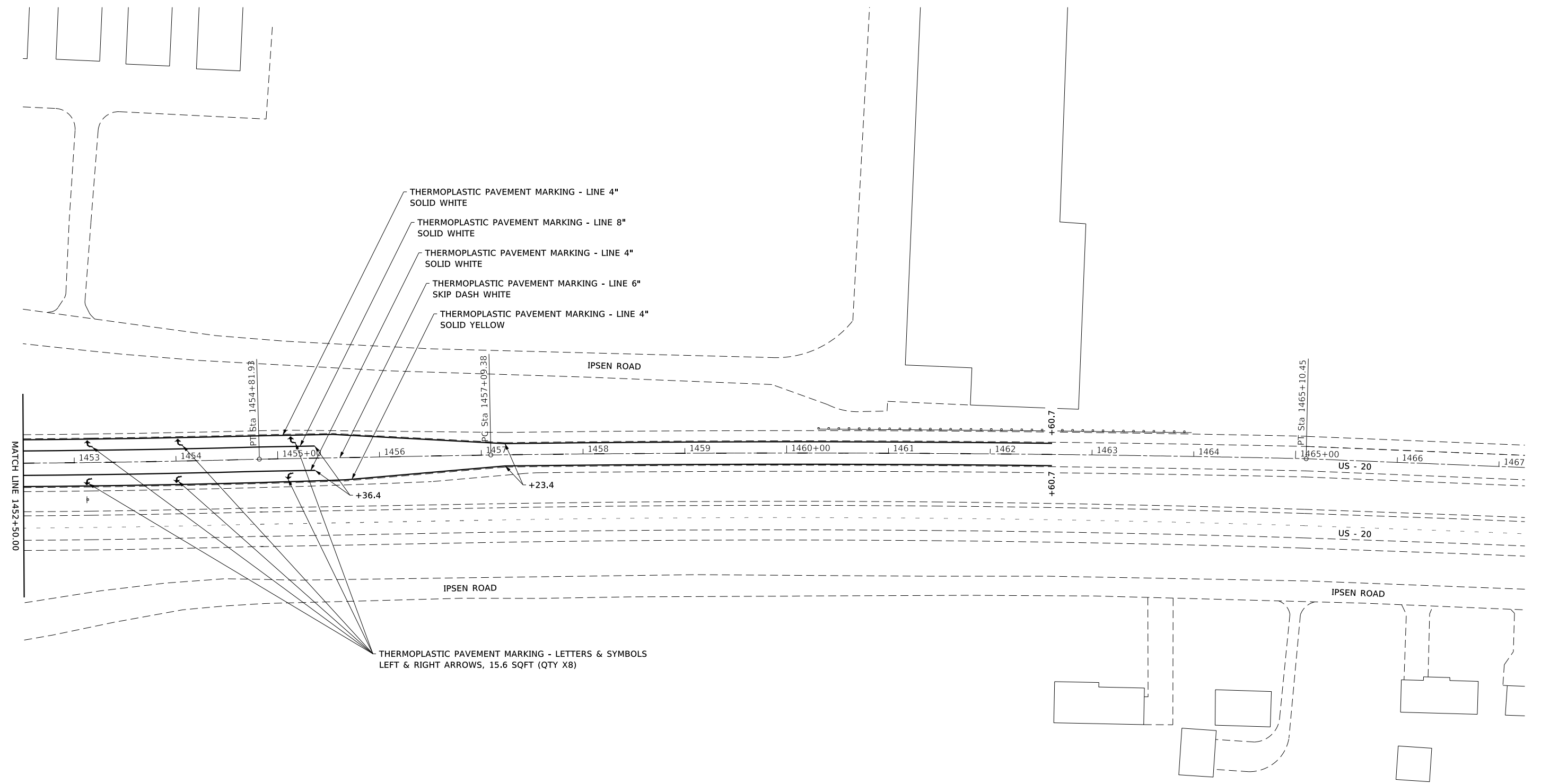
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN	
SCALE 1 : 100	SHEET 1 OF 2 SHEETS
STA. 1423+00.00 TO STA. 1452+50.00	

F.A.P. RTE. 525	SECTION D2 BDR 2020-1	COUNTY BOONE	TOTAL SHEETS 34	SHEET NO. 13
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 3/30/2020	DATE - 3/30/20	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN

SCALE 1 : 100 SHEET 2 OF 2 SHEETS STA. 1452+50.00 TO STA. 1467+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	14
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

Existing Structures: S.N. 004-9900 (US 20 WB), originally built in 1958, as a four-span continuous wide flange steel beam superstructure with open abutments and multi-column piers. The back to back length = 319'-10 1/4" and the out to out width = 36'-4". In 1964 S.N. 004-0004 (US 20 EB) was constructed next to S.N. 004-9900. S.N. 004-0004 is a four-span continuous composite wide flange steel beam superstructure with open abutments and multi-column piers. The back to back length = 324'-4" and the out to out width = 36'-0". In 1993 both structures were rehabilitated by replacing the reinforced concrete deck making both structures out to out width = 37'-2". The structures are to be repaired as detailed in these plans. Stage construction will be used to maintain traffic.

No Salvage

SCOPE OF WORK

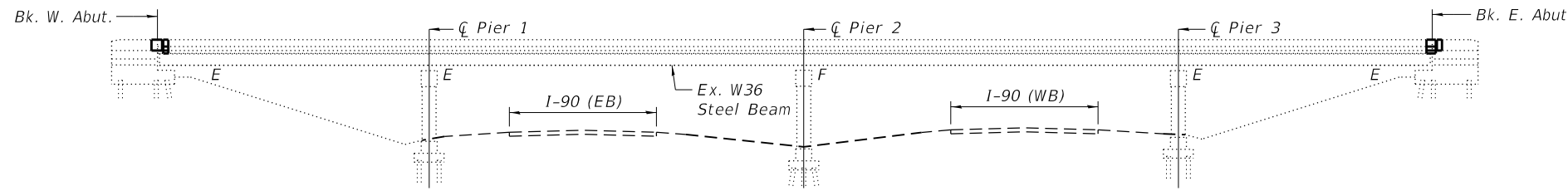
1. Replace the transverse expansion joints located at the ends of the bridge decks using the shallow replacement detail.
2. Deck slab partial depth and full depth repairs.
3. Add waterproofing membrane system with 1 3/4" HMA overlay.

TOTAL BILL OF MATERIAL

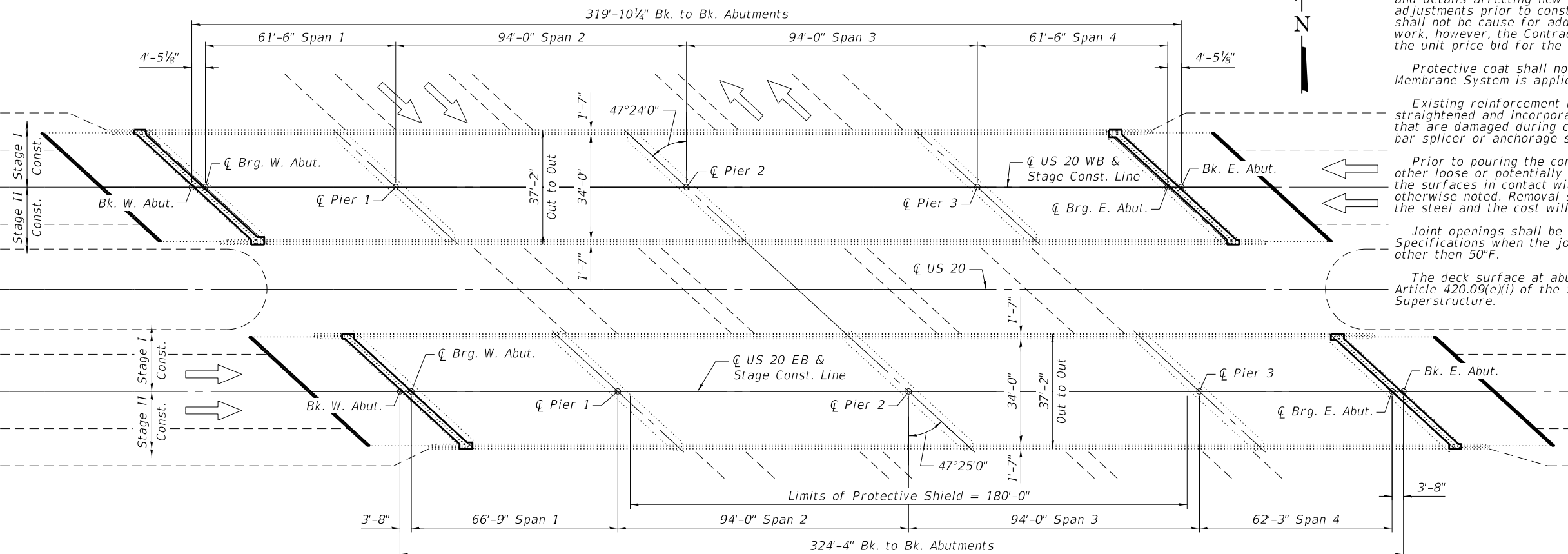
Item	Unit	Super	Sub	Total
Hot-Mix Asphalt Surface Course, IL-9.5, Mix "E", N90	Ton	250	-	250
Concrete Removal	Cu. Yd.	12.1	-	12.1
Protective Shield	Sq. Yd.	744	-	744
Concrete Superstructure	Cu. Yd.	12.9	-	12.9
Protective Coat	Sq. Yd.	38	-	38
Reinforcement Bars, Epoxy Coated	Pound	1,780	-	1,780
Bar Splicers	Each	20	-	20
Preformed Joint Strip Seal	Foot	209	-	209
Waterproofing Membrane System	Sq. Yd.	2,386	-	2,386
Deck Slab Repair (Partial)	Sq. Yd.	54	-	54
Silicone Joint Sealer, 1"	Foot	208	-	208
Polymer Concrete	Cu. Ft.	36.9	-	36.9

GENERAL NOTES

- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Protective coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
- Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- Prior to pouring the concrete deck, all heavy or loose rust, 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 otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included with Concrete Removal.
- Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the joint concrete is poured at an ambient temperature other than 50°F.
- The deck surface at abutment joints shall have its finish tined according to Article 420.09(e)(i) of the Standard Specifications. Cost included with Concrete Superstructure.



ELEVATION



PLAN

INDEX OF SHEETS

1. General Plan and Elevation
2. Stage Construction Details
3. Temporary Concrete Barrier for Stage Construction
4. Bridge Deck Overlay Plan
5. Bridge Deck Overlay Details
6. Westbound Expansion Joint Details
7. Eastbound Expansion Joint Details
8. Expansion Joint Details
9. Preformed Joint Strip Seal
10. Approach Joint Details
11. Bar Splicer Details

DESIGN STRESSES

FIELD UNITS (NEW CONST.)
 $f'c = 4,000$ psi (Superstructure)
 $f_y = 60,000$ psi (Reinforcement)

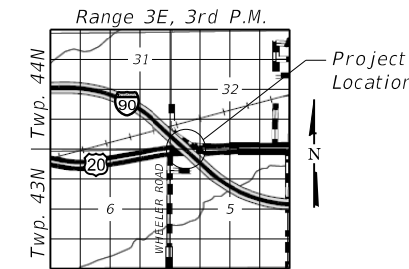
FIELD UNITS (EXIST. CONST.)
 $f'c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 33,000$ psi (Westbound Steel)
 $f_y = 36,000$ psi (Eastbound Steel)

LOADING HS 20-44

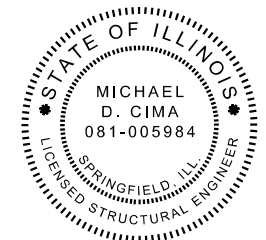
Existing and Proposed

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges - LFD



LOCATION SKETCH



Michael D. Cima 3/27/2020
 Michael D. Cima, Illinois S.E. 081-005984 Date
 Expires 11/30/2020

GENERAL PLAN & ELEVATION
US 20 OVER I-90
SECTION D2 BDR 2020-1
BOONE COUNTY
STRUCTURES NO. 004-0004 (EB)
& 004-9900 (WB)

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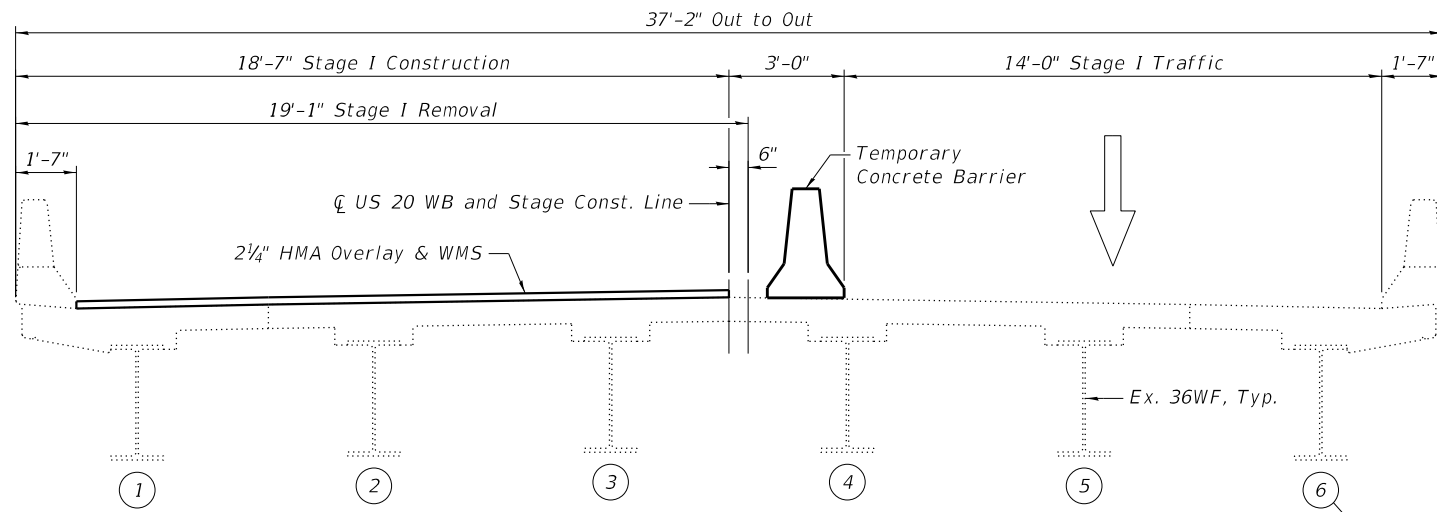
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURES NO. 004-0004 & 004-9900

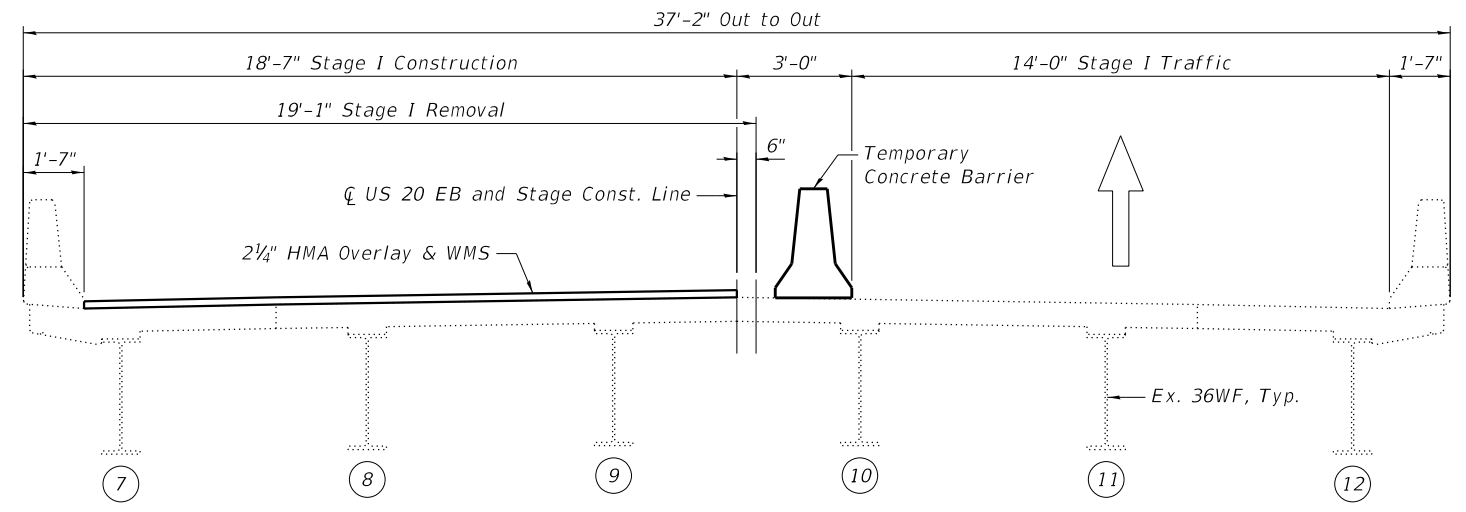
SHEET 1 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

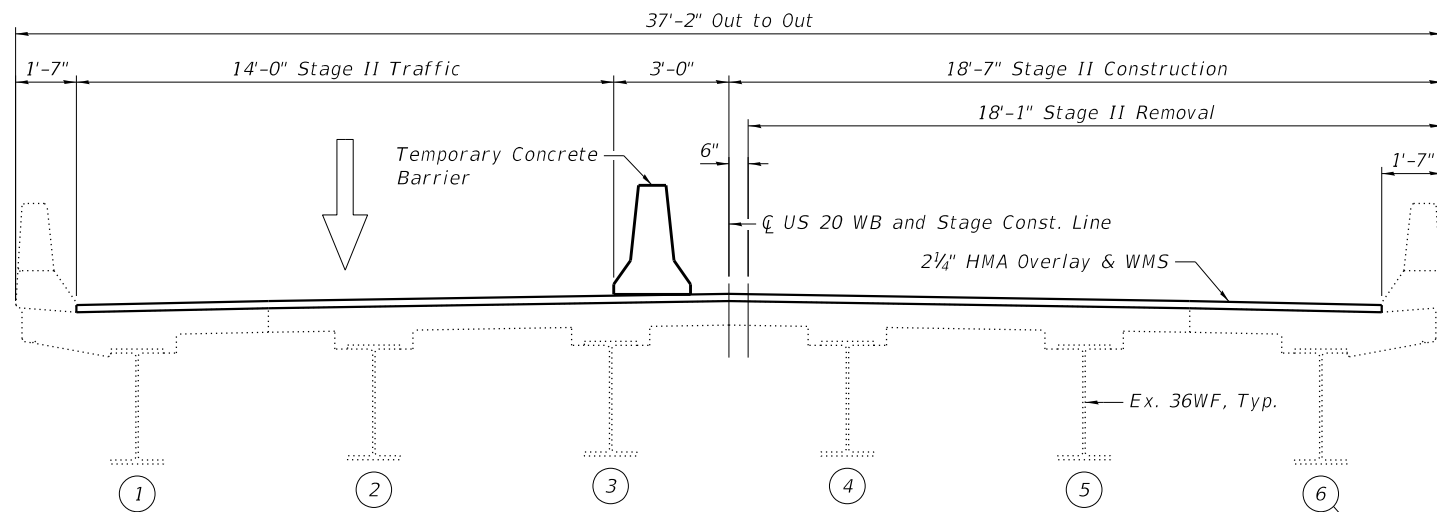
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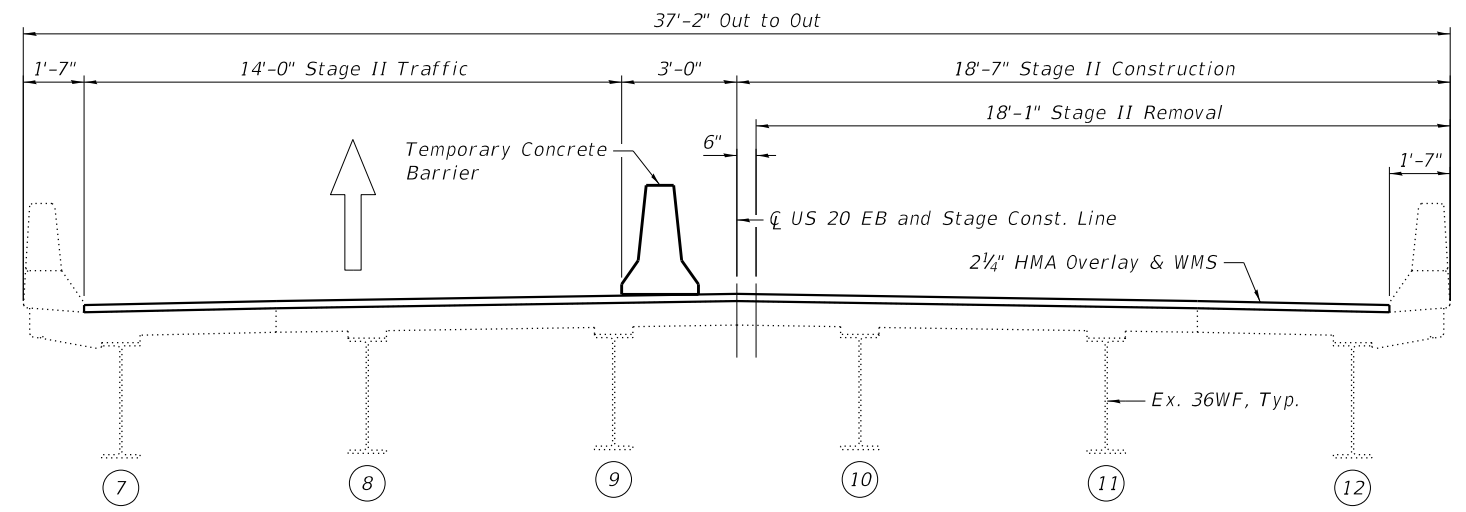
STAGE I WESTBOUND CONSTRUCTION
 (Looking East)



STAGE I EASTBOUND CONSTRUCTION
 (Looking East)



STAGE II WESTBOUND CONSTRUCTION
 (Looking East)



STAGE II EASTBOUND CONSTRUCTION
 (Looking East)

Note:
 Temporary Concrete Barrier billed with roadway plans.



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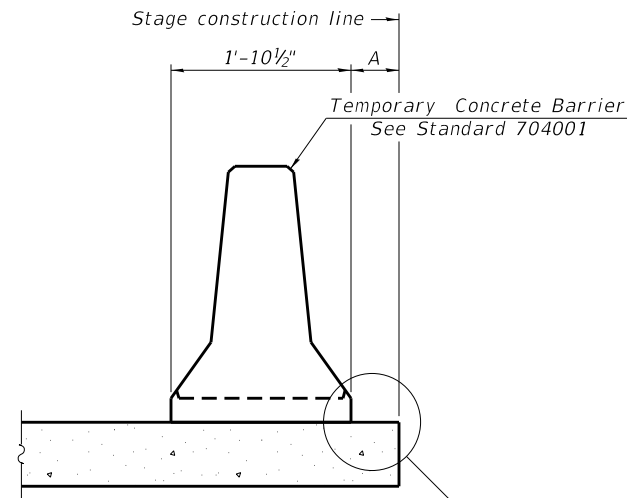
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
 STRUCTURES NO. 004-0004 & 004-9900

SHEET 2 OF 11 SHEETS

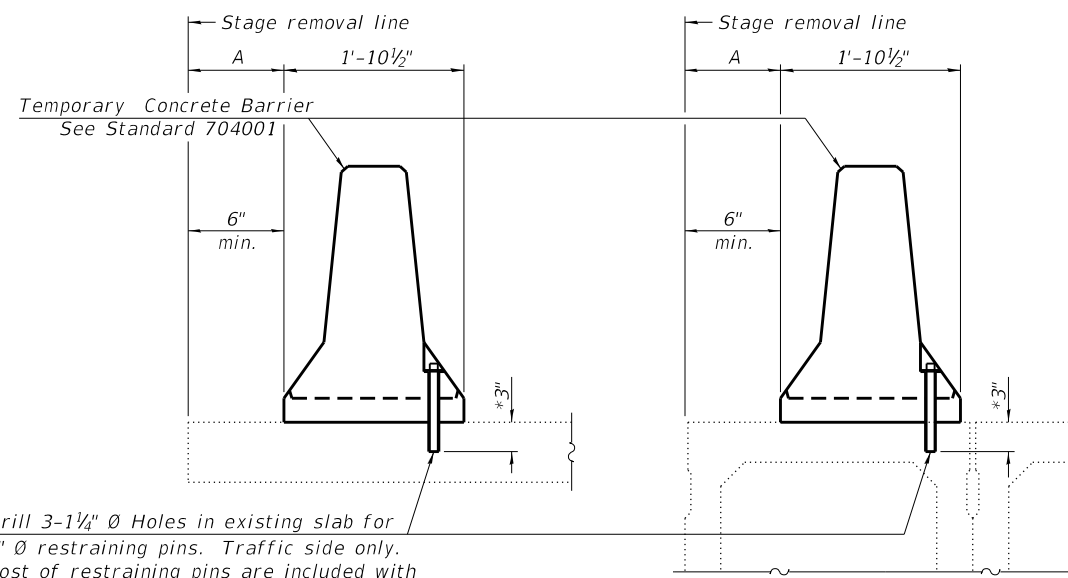
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ILLINOIS FED. AID PROJECT				

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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



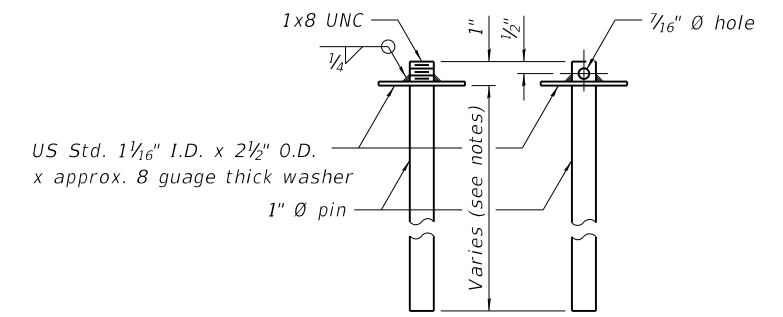
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

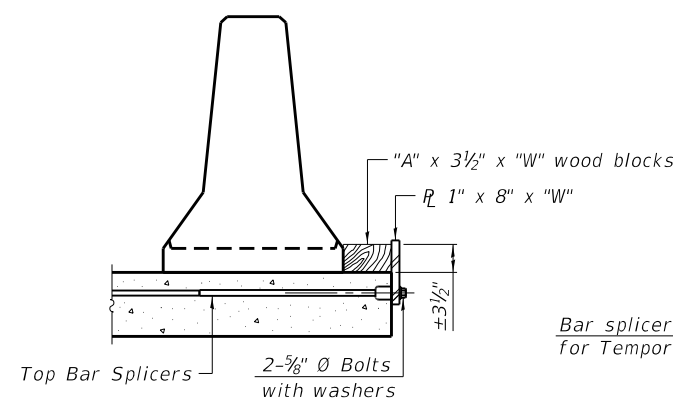
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

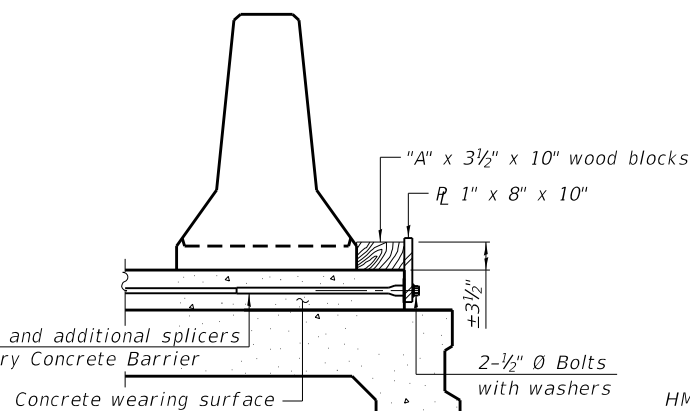


RESTRAINING PIN

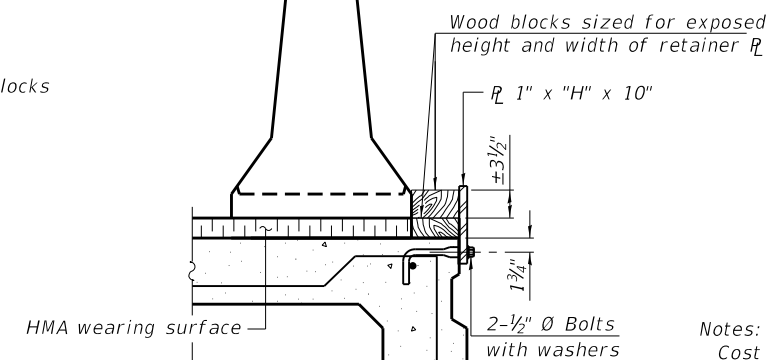


DETAIL I

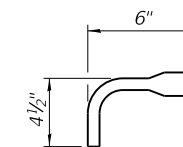
Bar splicers and additional splicers for Temporary Concrete Barrier



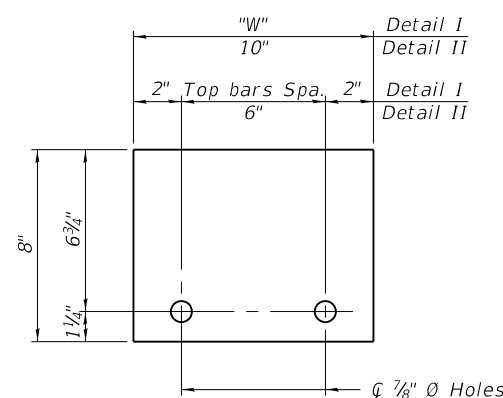
DETAIL II



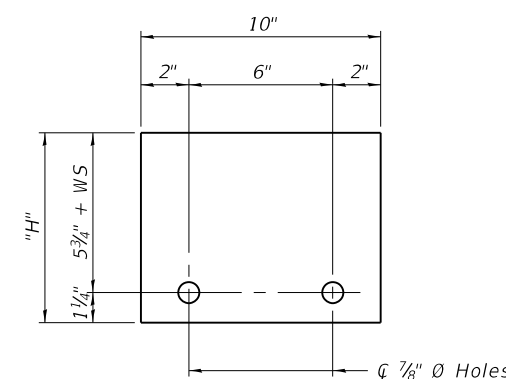
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



STEEL RETAINER 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 \bar{c} 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.

R-27 2-17-2017



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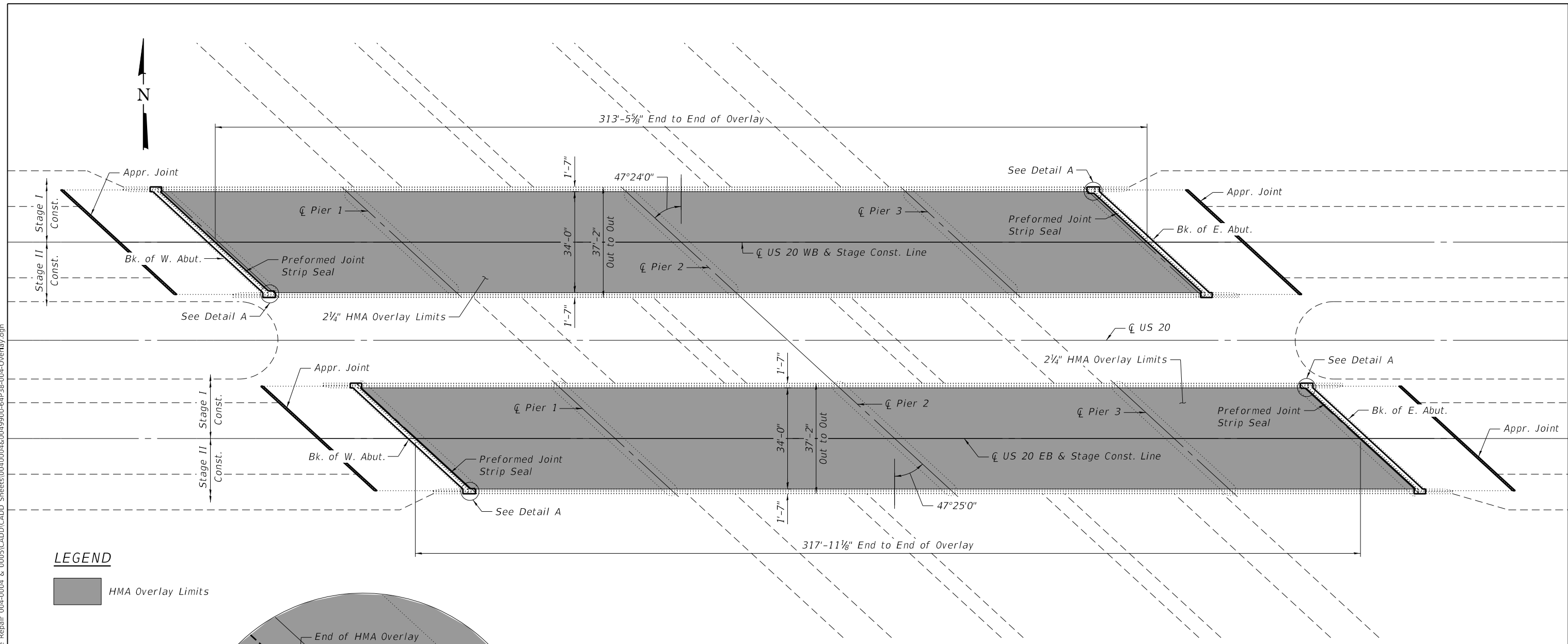
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURES NO. 004-0004 & 004-9900

SHEET 3 OF 11 SHEETS

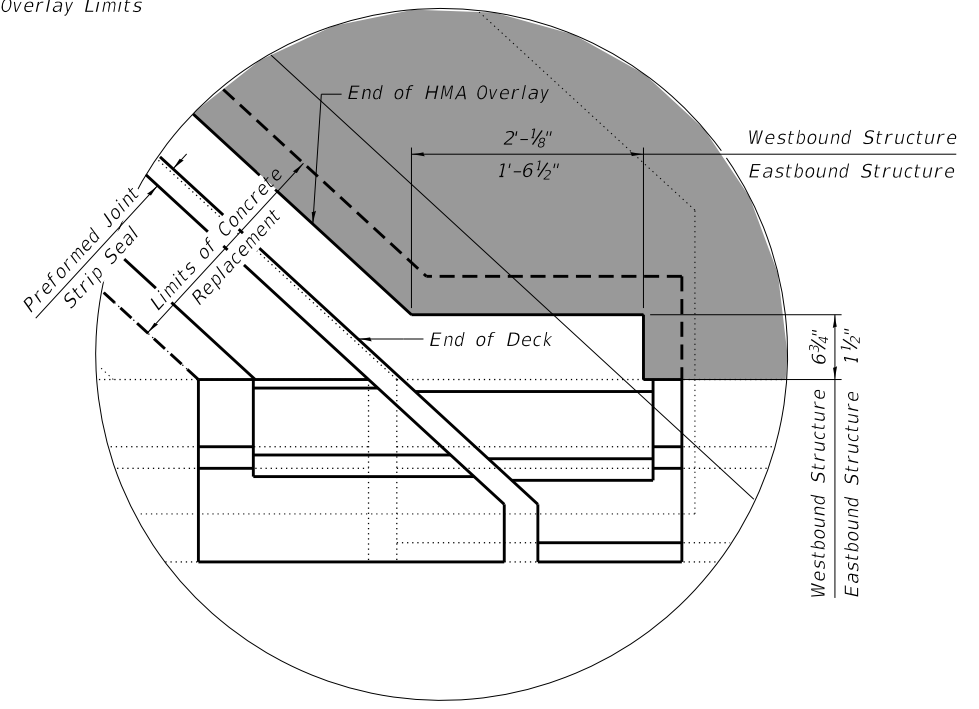
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ILLINOIS FED. AID PROJECT				

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LEGEND

HMA Overlay Limits



DETAIL A
 (SW quadrant shown, NE quadrant similar)

PLAN

HMA SURFACE LAYER DESIGN

Mixture Use(s)	Surface
Thickness	1.75"
PG	SBS PG 70-22
Design Air Voids	4.0 @ N90
Mixture Composition	IL 9.5
Friction Aggregate	E
Mixture Weight	119 lb/sy/in

WESTBOUND BILL OF MATERIAL

Item	Unit	Total
Hot-Mix Asphalt Surface Course, IL-9.5, Mix "E", N90	Ton	124
Protective Coat	Sq. Yd.	19
Waterproofing Membrane System	Sq. Yd.	1,184.5
Deck Slab Repair (Partial)	Sq. Yd.	48

EASTBOUND BILL OF MATERIAL

Item	Unit	Total
Hot-Mix Asphalt Surface Course, IL-9.5, Mix "E", N90	Ton	126
Protective Coat	Sq. Yd.	19
Waterproofing Membrane System	Sq. Yd.	1,201.5
Deck Slab Repair (Partial)	Sq. Yd.	6

Notes:
 2 1/4" overlay consist of 1/2" waterproofing membrane system and 1 3/4" HMA surface layer.
 Deck Slab Repair (Partial) areas are estimated and will be field verified by the Engineer prior to patching. The Engineer shall show actual locations of deck repairs on the as-built plans.
 See Sheet 5 of 11 for cross sections.
 See Sheets 6 - 10 of 11 for concrete replacement details and joint details.
 For approach pavement overlay details see roadway sheets.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK OVERLAY PLAN
STRUCTURES NO. 004-0004 & 004-9900

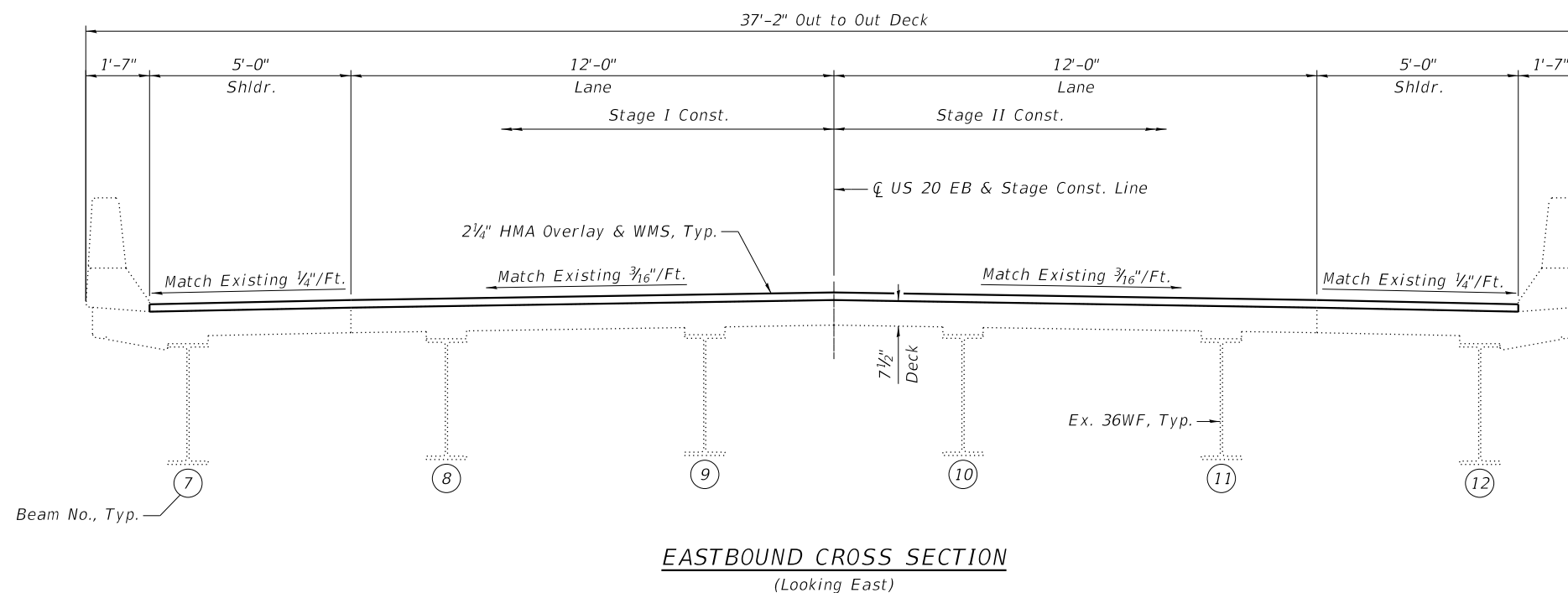
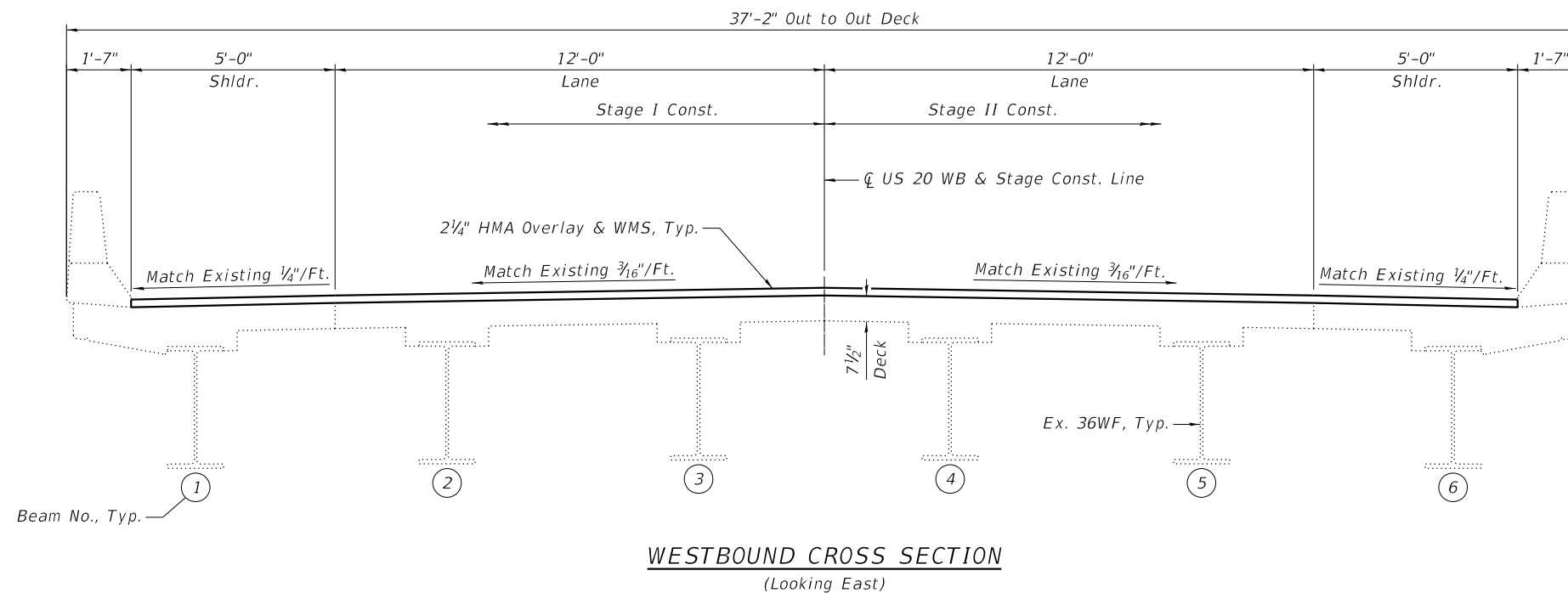
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Notes:
 See Sheet 4 of 11 for overlay limits and Bill of Material.
 2 1/4" overlay consist of 1/2" waterproofing membrane system and 1 3/4" HMA surface layer.



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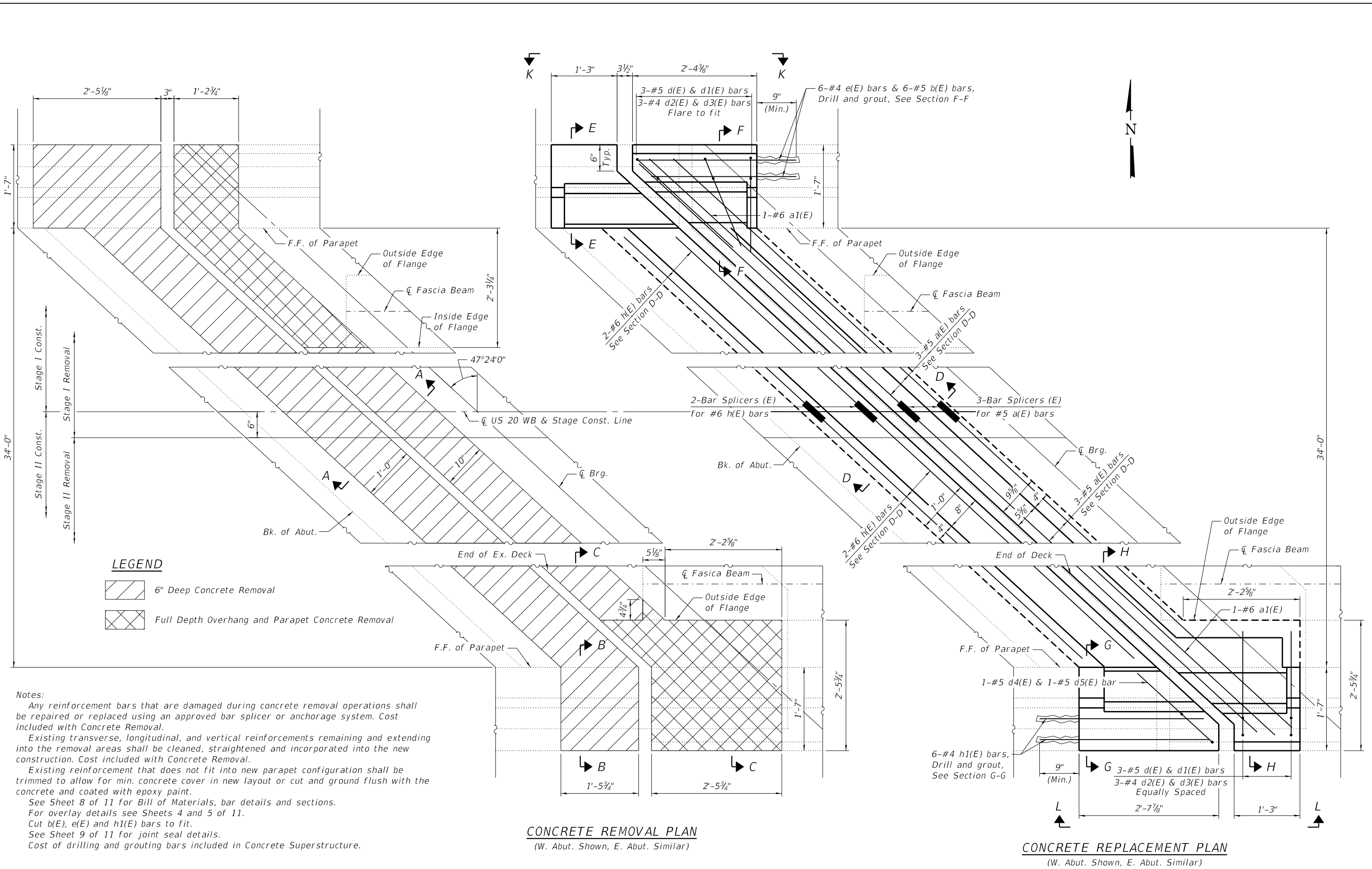
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK OVERLAY DETAILS
 STRUCTURES NO. 004-0004 & 004-9900**

SHEET 5 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

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Notes:
 Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.
 Existing transverse, longitudinal, and vertical reinforcements remaining and extending into the removal areas shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.
 Existing reinforcement that does not fit into new parapet configuration shall be trimmed to allow for min. concrete cover in new layout or cut and ground flush with the concrete and coated with epoxy paint.
 See Sheet 8 of 11 for Bill of Materials, bar details and sections.
 For overlay details see Sheets 4 and 5 of 11.
 Cut b(E), e(E) and h1(E) bars to fit.
 See Sheet 9 of 11 for joint seal details.
 Cost of drilling and grouting bars included in Concrete Superstructure.

CONCRETE REMOVAL PLAN
 (W. Abut. Shown, E. Abut. Similar)

CONCRETE REPLACEMENT PLAN
 (W. Abut. Shown, E. Abut. Similar)



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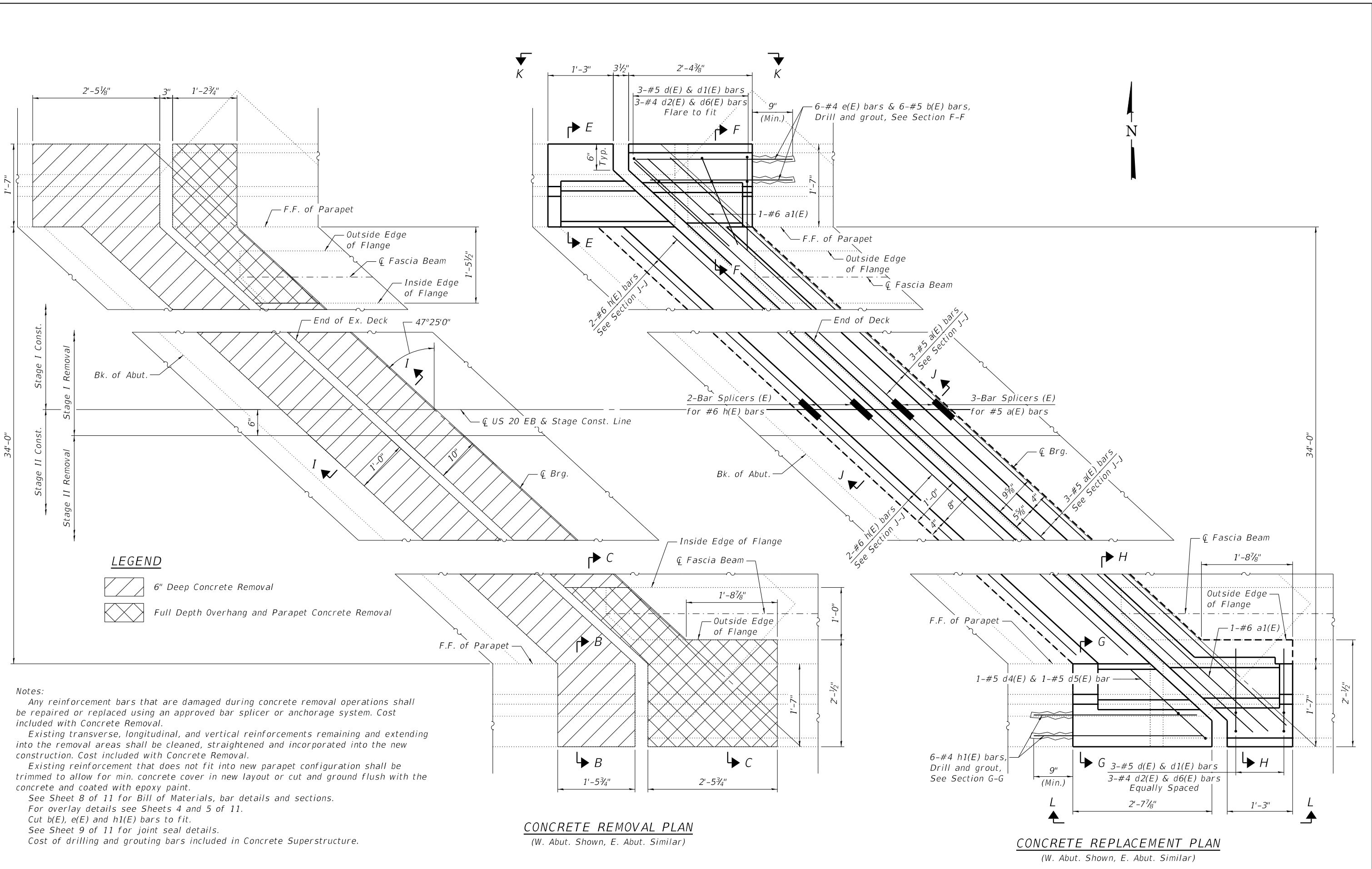
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WESTBOUND EXPANSION JOINT DETAILS
STRUCTURES NO. 004-0004 & 004-9900

SHEET 6 OF 11 SHEETS

F.A.P. RTE. 525	SECTION D2 BDR 2020-1	COUNTY BOONE	TOTAL SHEETS 34	SHEET NO. 20
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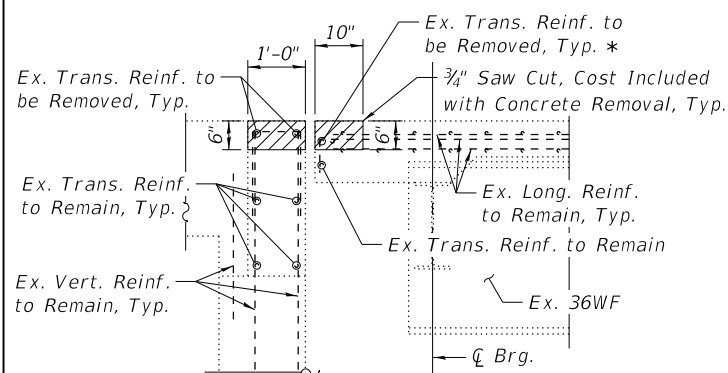
Notes:
 Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.
 Existing transverse, longitudinal, and vertical reinforcements remaining and extending into the removal areas shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.
 Existing reinforcement that does not fit into new parapet configuration shall be trimmed to allow for min. concrete cover in new layout or cut and ground flush with the concrete and coated with epoxy paint.
 See Sheet 8 of 11 for Bill of Materials, bar details and sections.
 For overlay details see Sheets 4 and 5 of 11.
 Cut b(E), e(E) and h1(E) bars to fit.
 See Sheet 9 of 11 for joint seal details.
 Cost of drilling and grouting bars included in Concrete Superstructure.

CONCRETE REMOVAL PLAN
 (W. Abut. Shown, E. Abut. Similar)

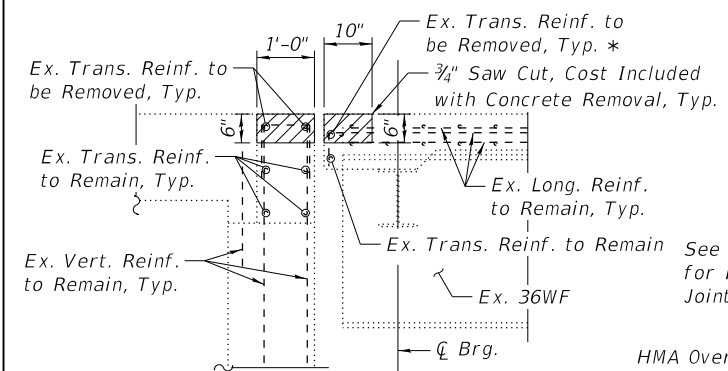
CONCRETE REPLACEMENT PLAN
 (W. Abut. Shown, E. Abut. Similar)

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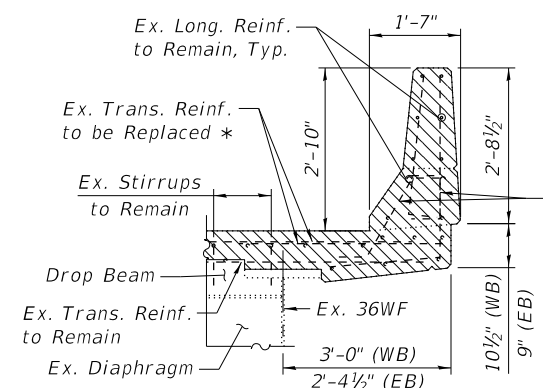


SECTION A-A



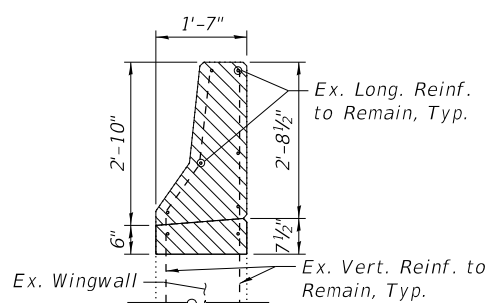
SECTION I-I

* Remove existing bars placed parallel to joint. Existing bars placed perpendicular to ϕ roadway to remain.



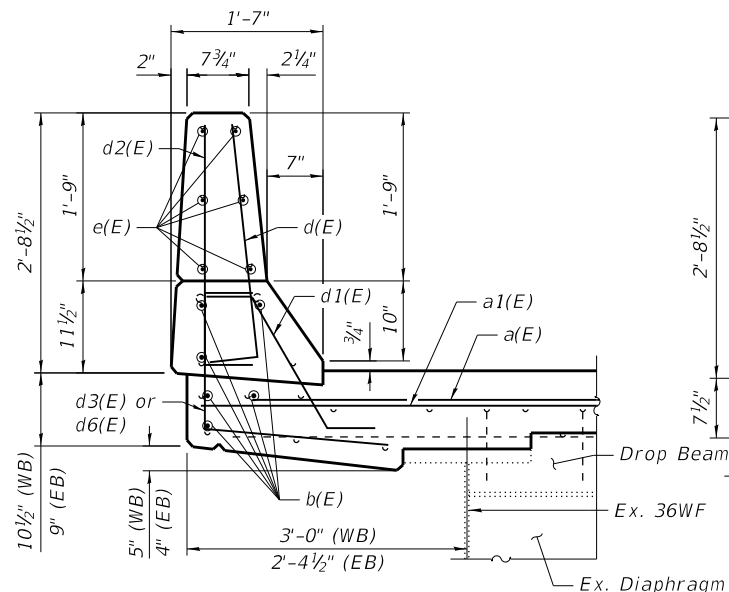
SECTION C-C

(S. Parapet Shown, N. Parapet Similar)

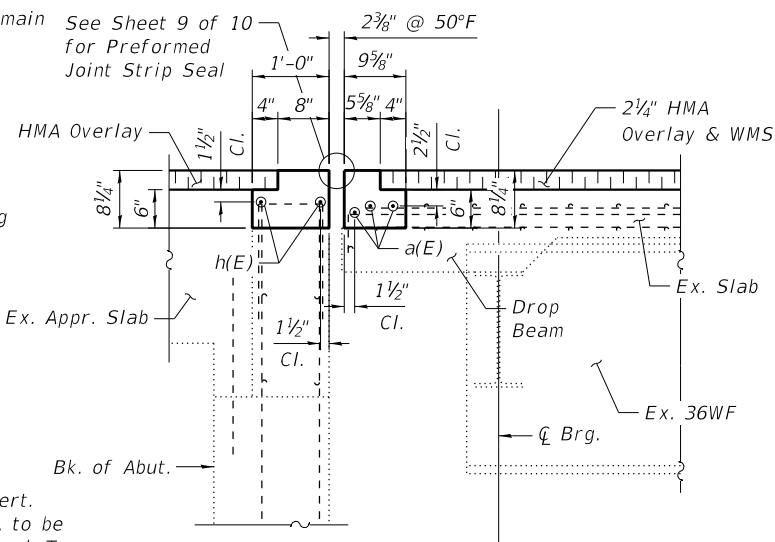


SECTION B-B

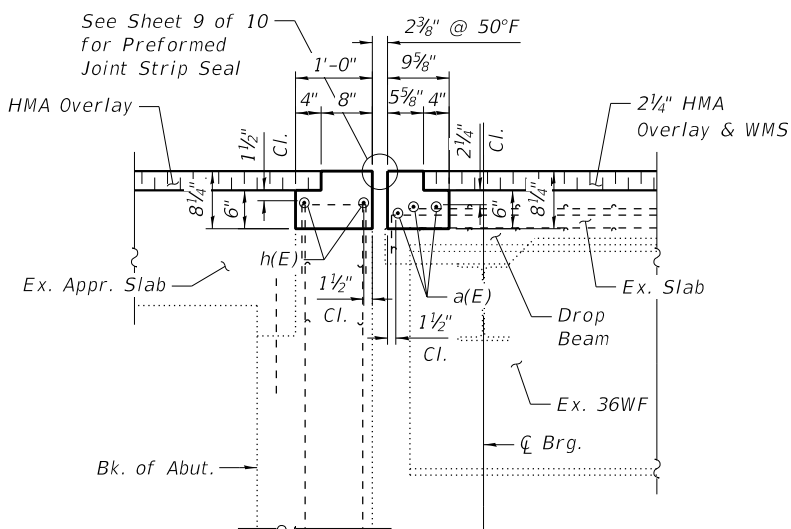
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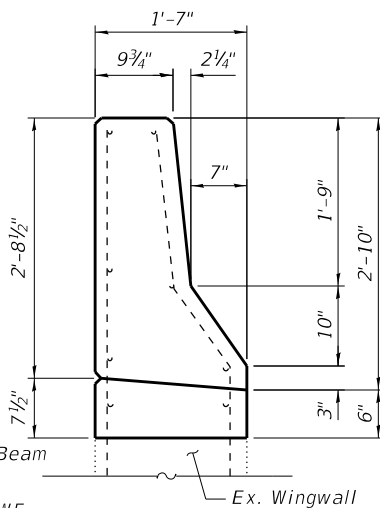
SECTION F-F



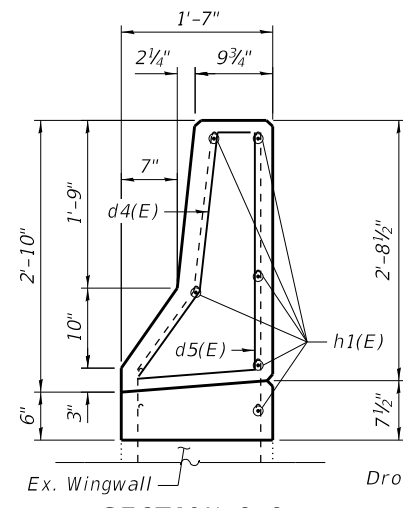
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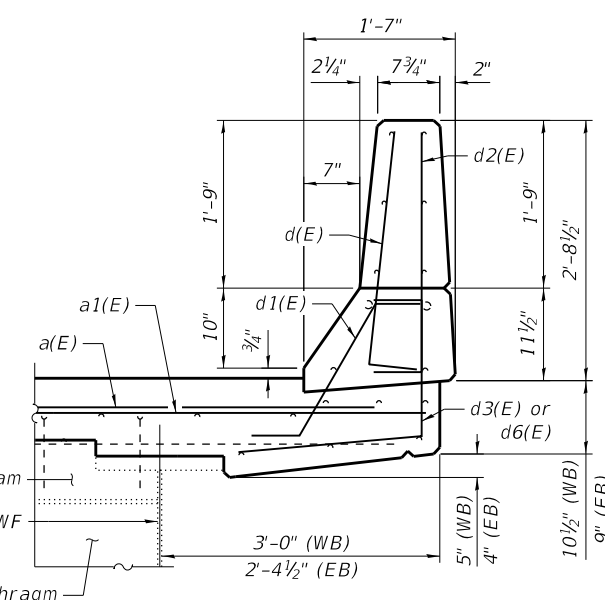
SECTION J-J



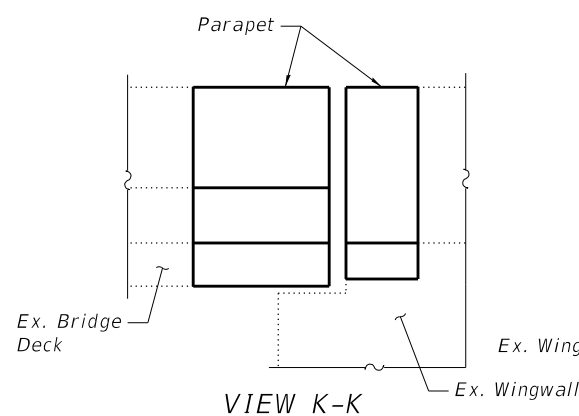
SECTION E-E



SECTION G-G

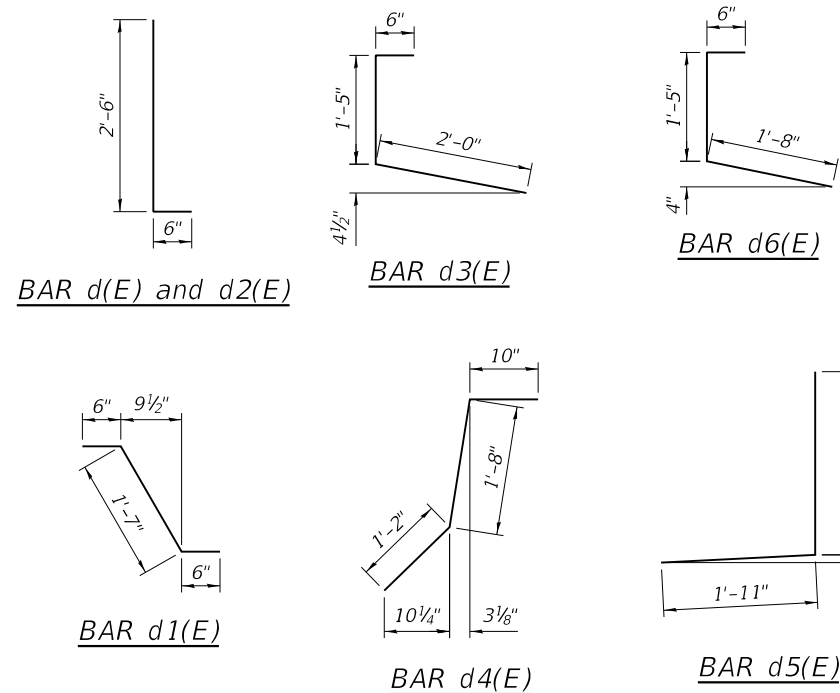


SECTION H-H



VIEW K-K

VIEW L-L



LEGEND



Concrete Removal

Notes:
 See Sheet 6 and 7 of 11 for section cuts.
 See Sheet 9 of 11 for joint seal details.
 2 1/4" overlay consists of 1/2" waterproofing membrane system and 1 3/4" HMA surface layer.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a(E)	24	#5	26'-11"	—	
a1(E)	8	#6	4'-0"	—	
b(E)	24	#5	2'-11"	—	
d(E)	24	#5	3'-0"	L	
d1(E)	24	#5	2'-7"	┘	
d2(E)	24	#4	3'-0"	L	
d3(E)	12	#4	3'-11"	┘	
d4(E)	4	#5	3'-8"	┘	
d5(E)	4	#5	4'-5"	L	
d6(E)	12	#4	3'-7"	┘	
e(E)	24	#4	2'-11"	—	
h(E)	16	#6	24'-10"	—	
h1(E)	24	#4	3'-3"	—	
Item				Unit	Total
Reinforcement Bars, Epoxy Coated				Pound	1,780
Concrete Superstructure				Cu. Yd.	12.9
Concrete Removal				Cu. Yd.	11.4



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 0040004&0049900-64P38-008-Exp Jt.dgn
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 PLOT DATE = 03/27/2020

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 CHECKED - MDC

REVISED -
 REVISED -
 REVISED -
 REVISED -

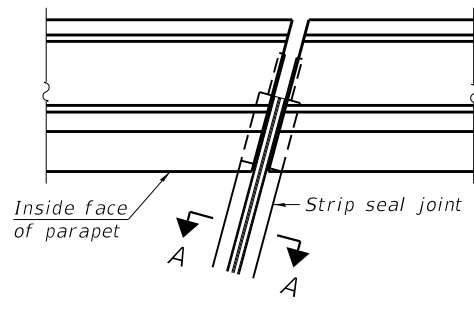
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT DETAILS
 STRUCTURES NO. 004-0004 & 004-9900

SHEET 8 OF 11 SHEETS

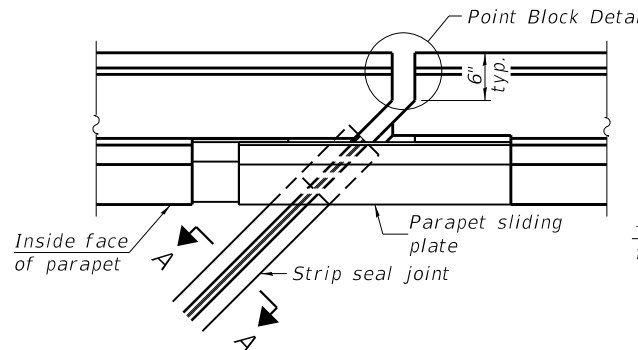
F.A.P. RTE. 525
 SECTION D2 BDR 2020-1
 COUNTY BOONE
 TOTAL SHEETS 34
 SHEET NO. 22
 CONTRACT NO. 64P38
 ILLINOIS FED. AID PROJECT

MODEL: Default
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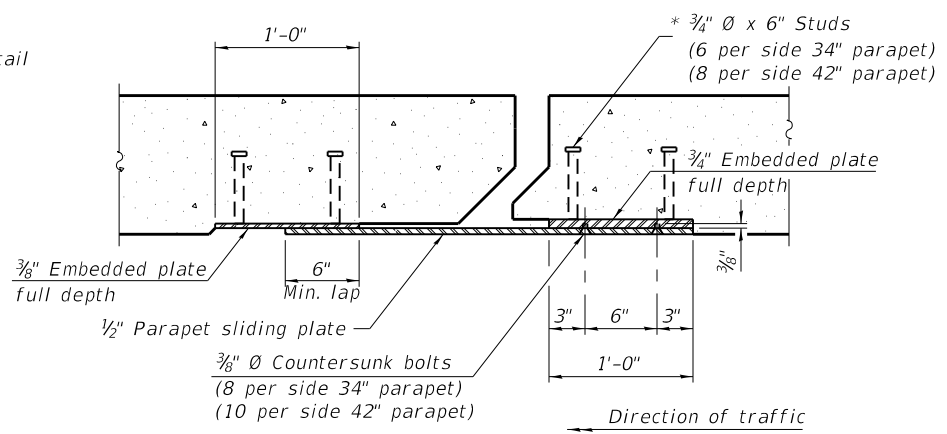


FOR SKEWS $\leq 30^\circ$

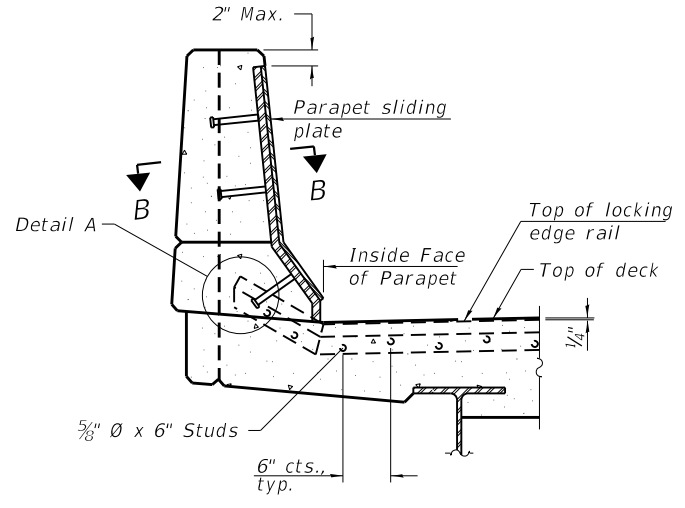
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

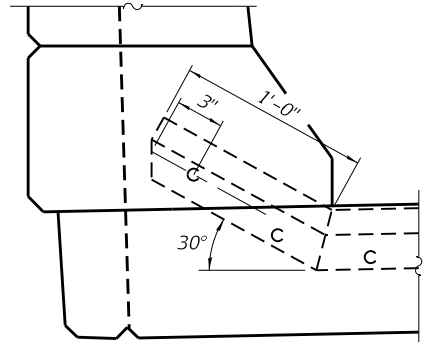


SECTION B-B

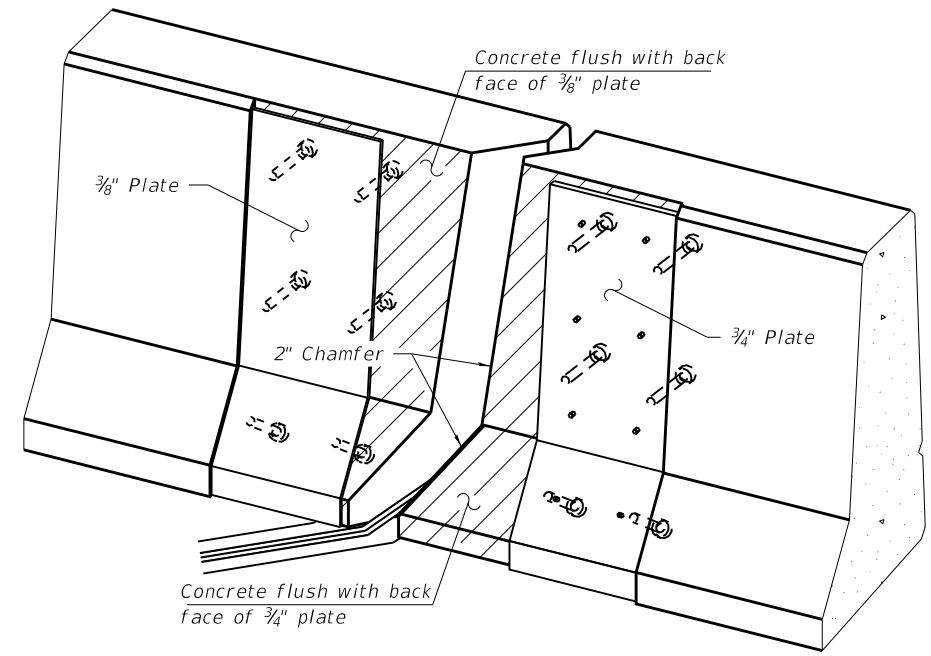


ELEVATION AT PARAPET

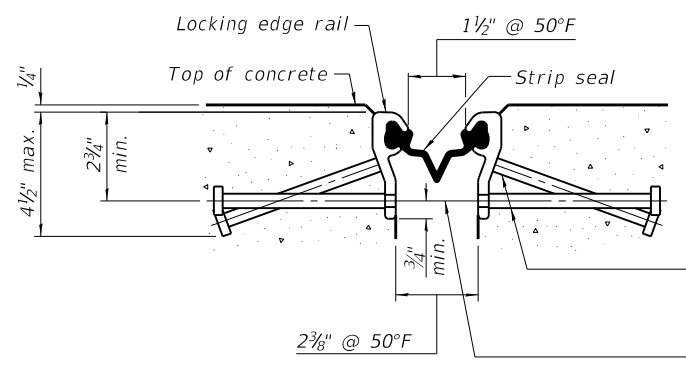
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A

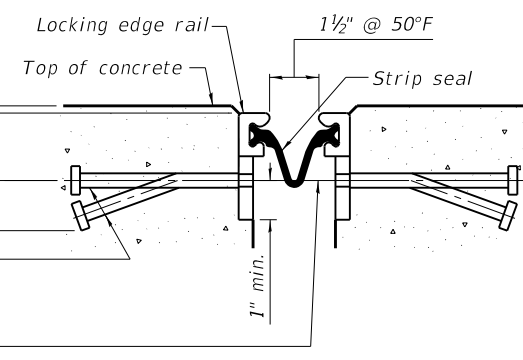


TRIMETRIC VIEW
(Showing embedded plates only)



SHOWING ROLLED RAIL JOINT

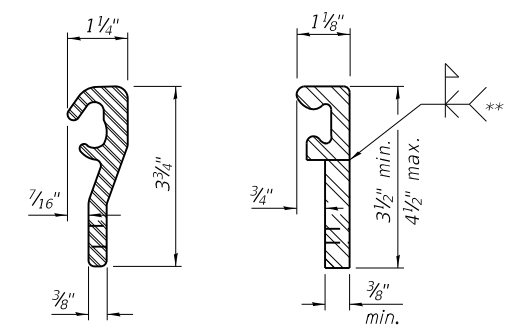
* 5/8" ϕ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)
 3/8" ϕ threaded rods in 7/16" ϕ holes at $\pm 4'-0"$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



SHOWING WELDED RAIL JOINT

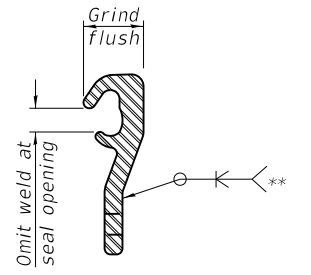
SECTION A-A

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



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	209

EJ-SS

8-11-17



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 0040004&0049900-64P38-009-PJSS.dgn
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 PLOT DATE = 03/27/2020

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 DRAWN - CFS
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REVISED -
 REVISED -
 REVISED -
 REVISED -

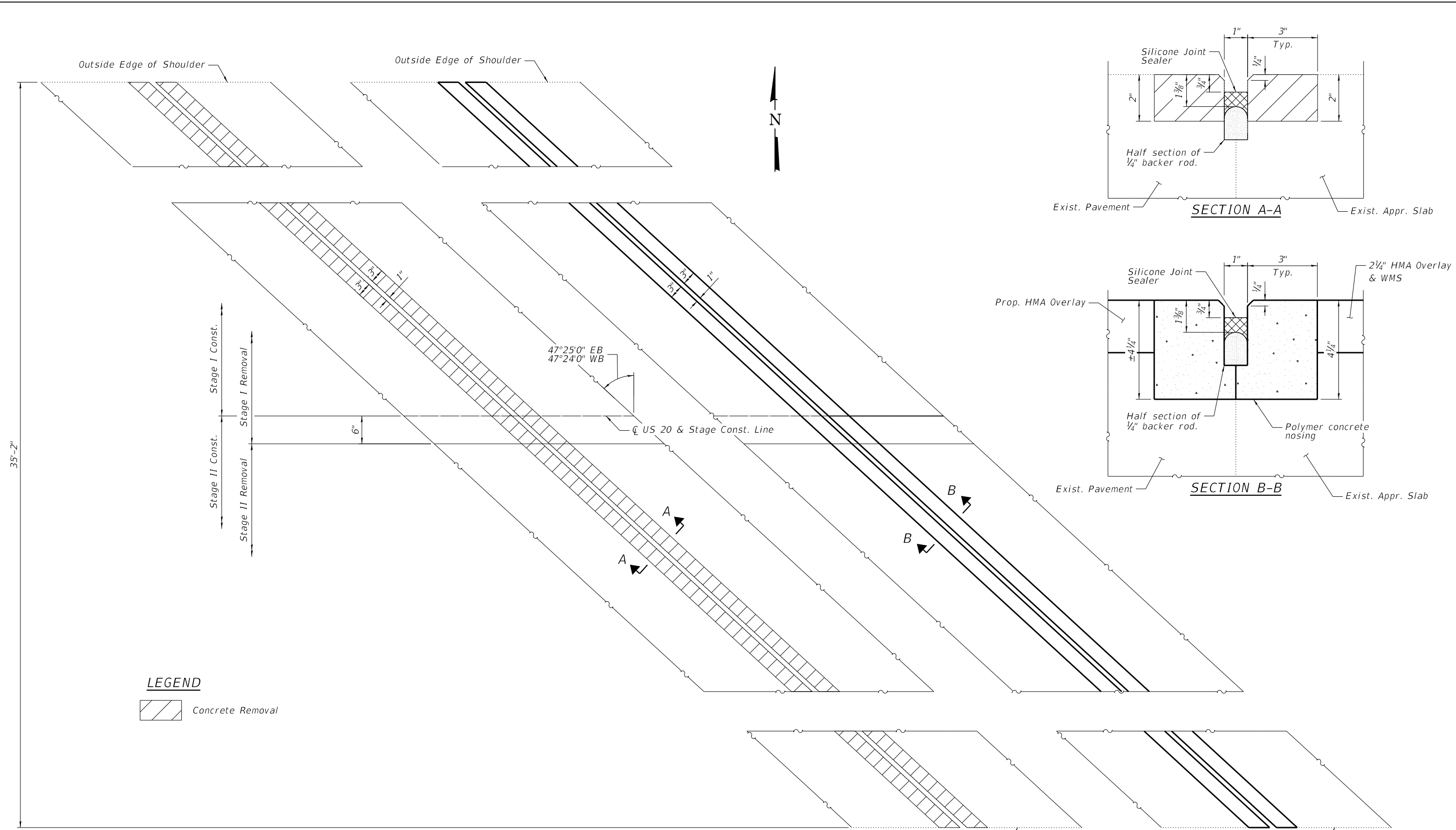
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
 STRUCTURES NO. 004-0004 & 004-9900

SHEET 9 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	23
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

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 3/27/2020 11:12:00 AM



LEGEND
 Concrete Removal

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	0.7
Silicone Joint Sealer, 1"	Foot	208
Polymer Concrete	Cu. Ft.	36.9

APPROACH JOINT REMOVAL DETAILS
 (W. Appr. Shown, E. Appr. Similar)
 (Eastbound Shown, Westbound Similar)

APPROACH JOINT REPLACEMENT DETAILS
 (W. Appr. Shown, E. Appr. Similar)
 (Eastbound Shown, Westbound Similar)



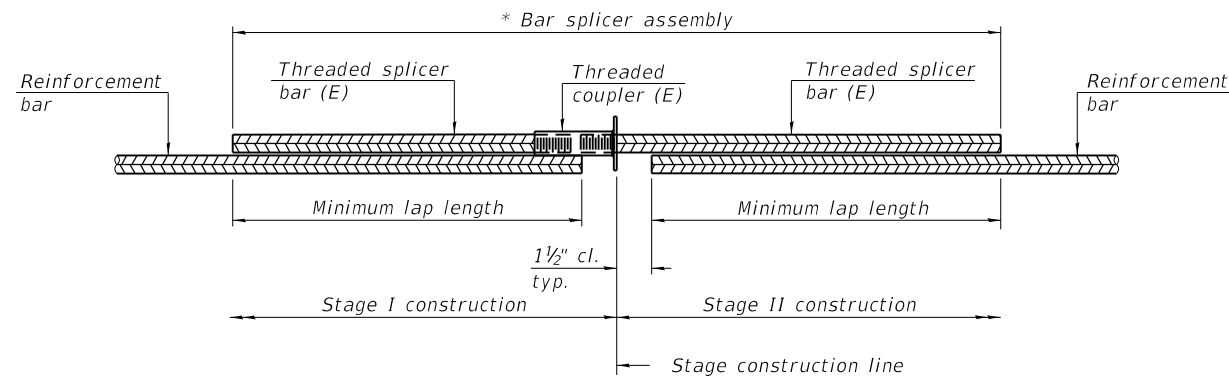
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**APPROACH JOINT DETAILS
 STRUCTURES NO. 004-0004 & 004-9900**

SHEET 10 OF 11 SHEETS

F.A.P. RTE. 525	SECTION D2 BDR 2020-1	COUNTY BOONE	TOTAL SHEETS 34	SHEET NO. 24
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

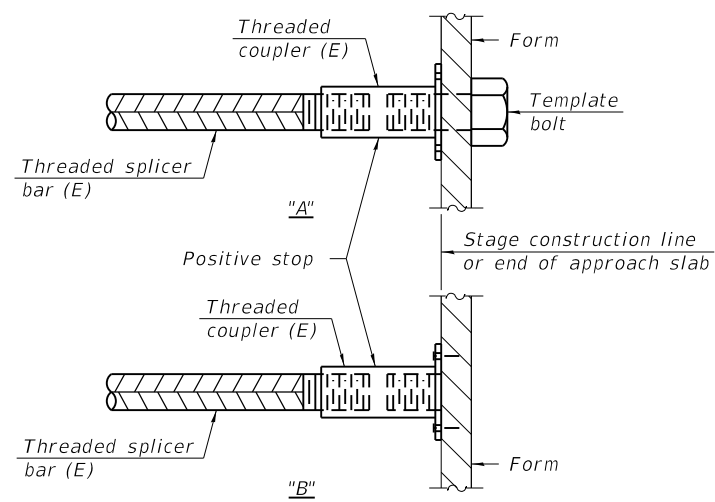


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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
WB Hatchblock	#6	4	4'-0"
WB Edge of Deck	#5	6	3'-6"
EB Hatchblock	#6	4	4'-0"
EB Edge of Deck	#5	6	3'-6"

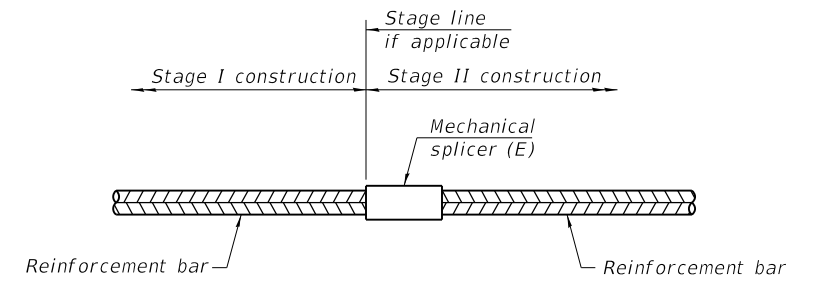


INSTALLATION AND SETTING METHODS

"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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BSD-1

1-1-2020



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

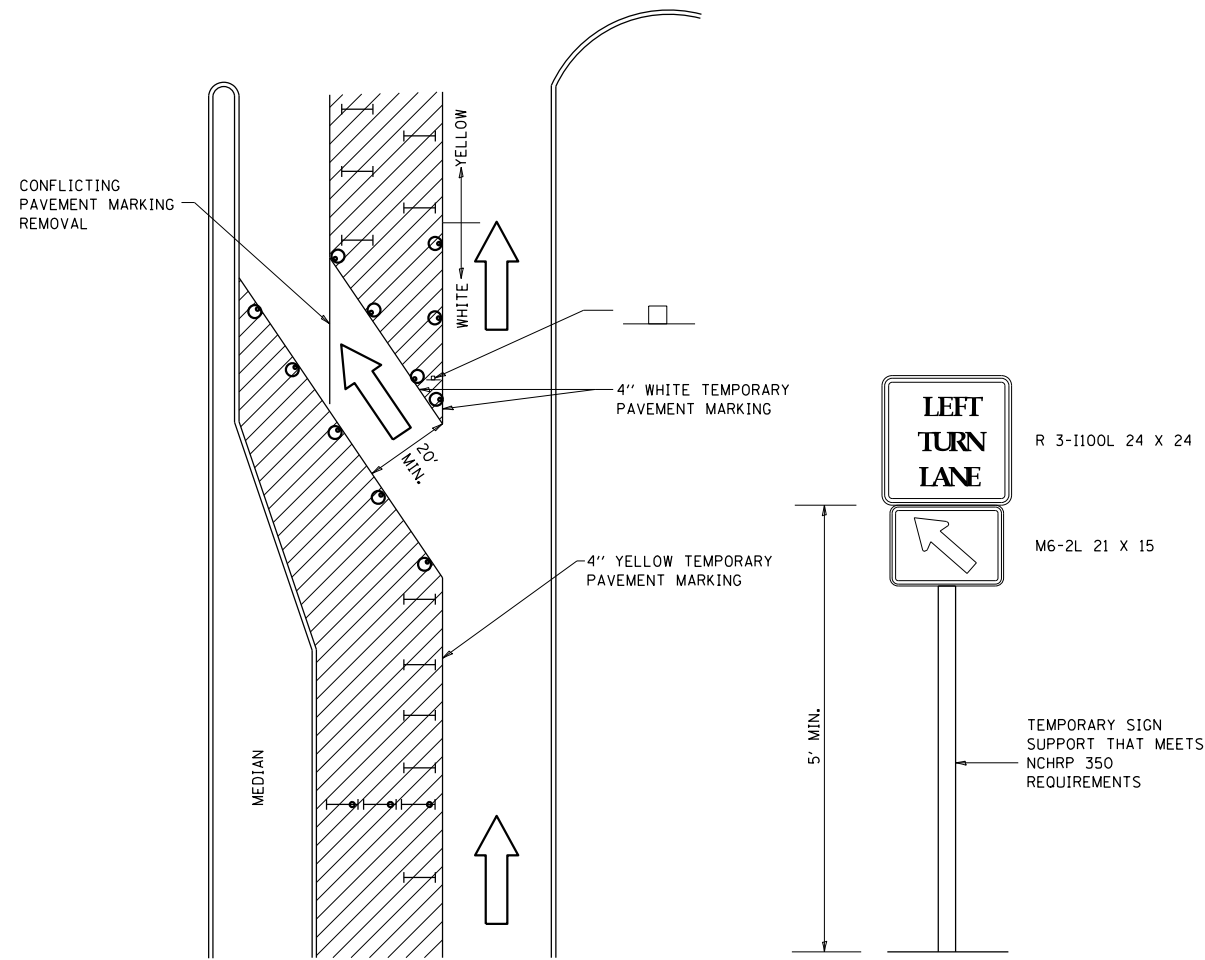
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURES NO. 004-0004 & 004-9900

SHEET 11 OF 11 SHEETS


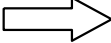




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	25
CONTRACT NO. 64P38				

ILLINOIS FED. AID PROJECT

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)



LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE OR DRUM WITH FLASHING BURNING LIGHT
-  DRUM OR BARRICADE WITH STEADY BURN LIGHT
-  SIGN (SEE DETAIL)
-  TYPE I OR II CHECK BARRICADE WITH STEADY LIGHT BURN

REVISED - 10-14-11

GENERAL NOTES

- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 IN HEIGHT.
- STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS WILL BE MONODIRECTIONAL.
- TEMPORARY PAVEMENT MARKING SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
- THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 X 24 AND M6-2R 21 X 15 SHALL BE USED.
- THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.
- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

Traffic Control and Protection at Turn Bays (To Remain Open to Traffic) 94.2

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

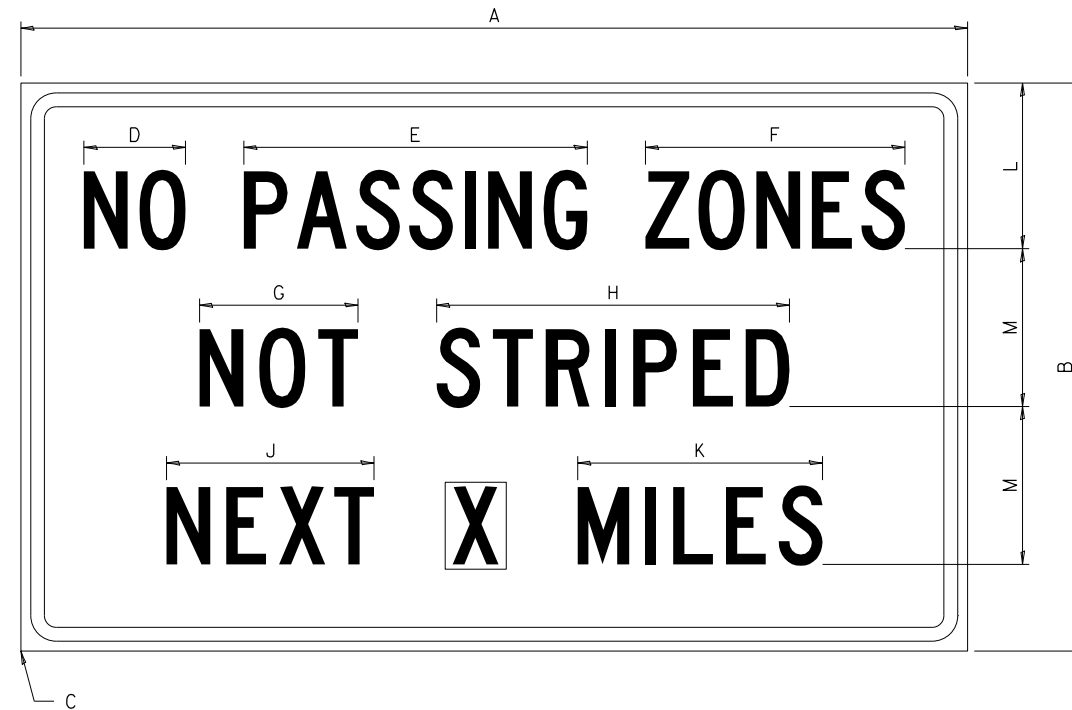
REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET XX OF XX SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	26
				CONTRACT NO. 64P38
ILLINOIS FED. AID PROJECT				

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20-I100



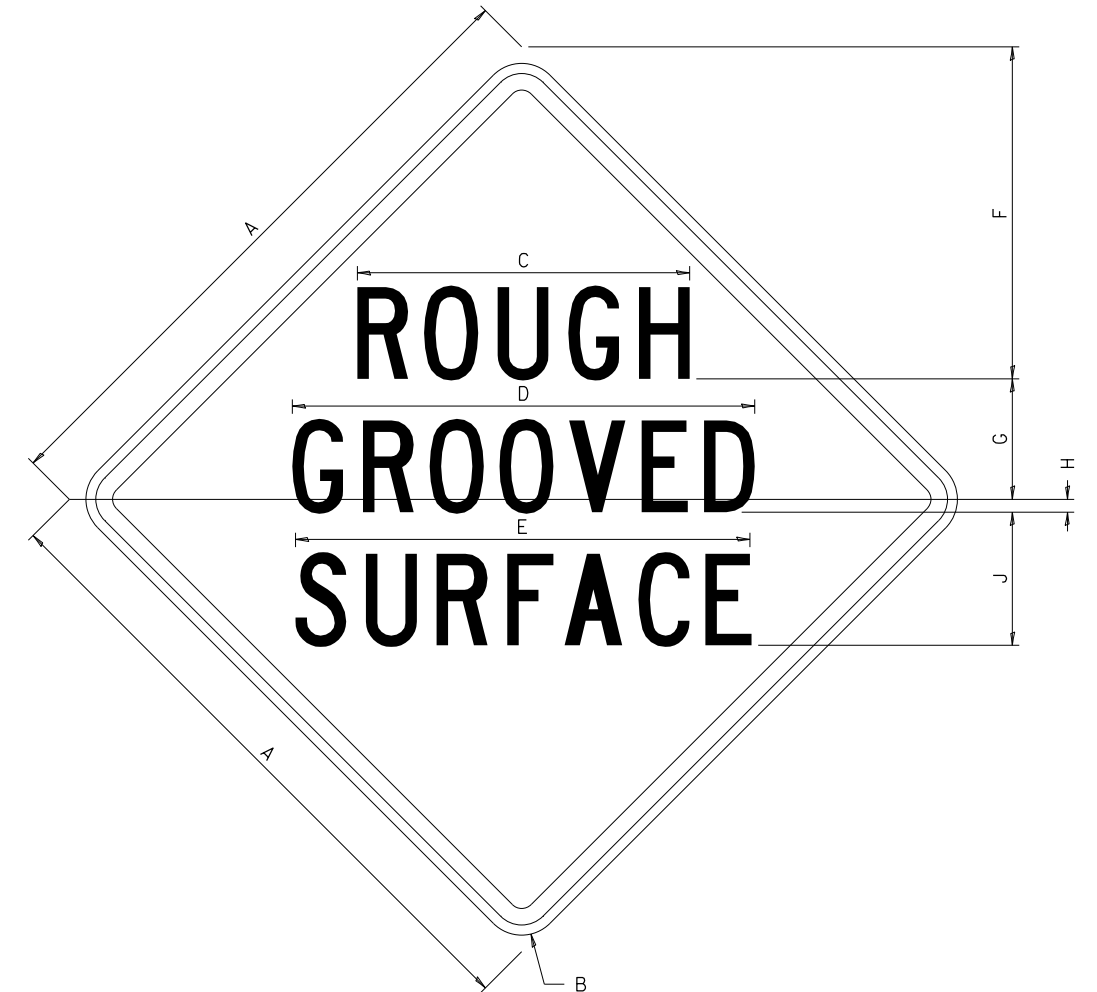
COLOR LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	27
CONTRACT NO. 64P38				

SCALE SHEET XX OF XX SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

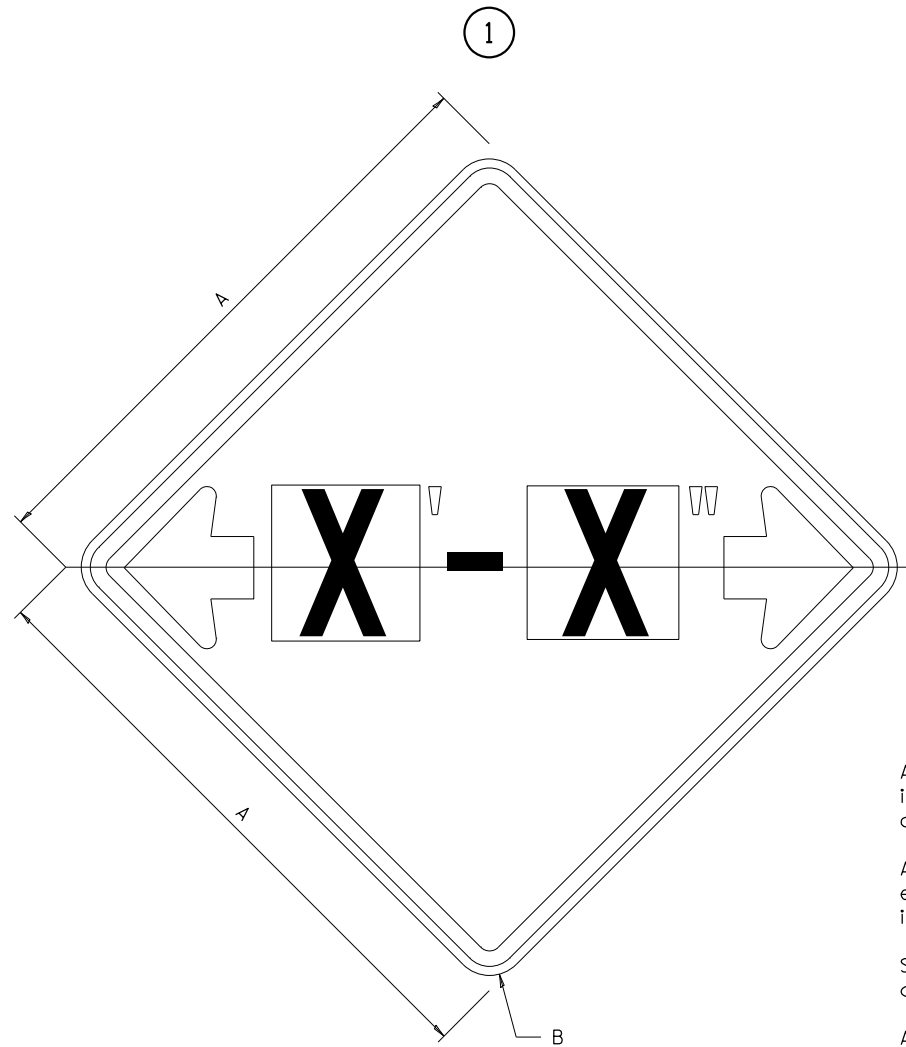
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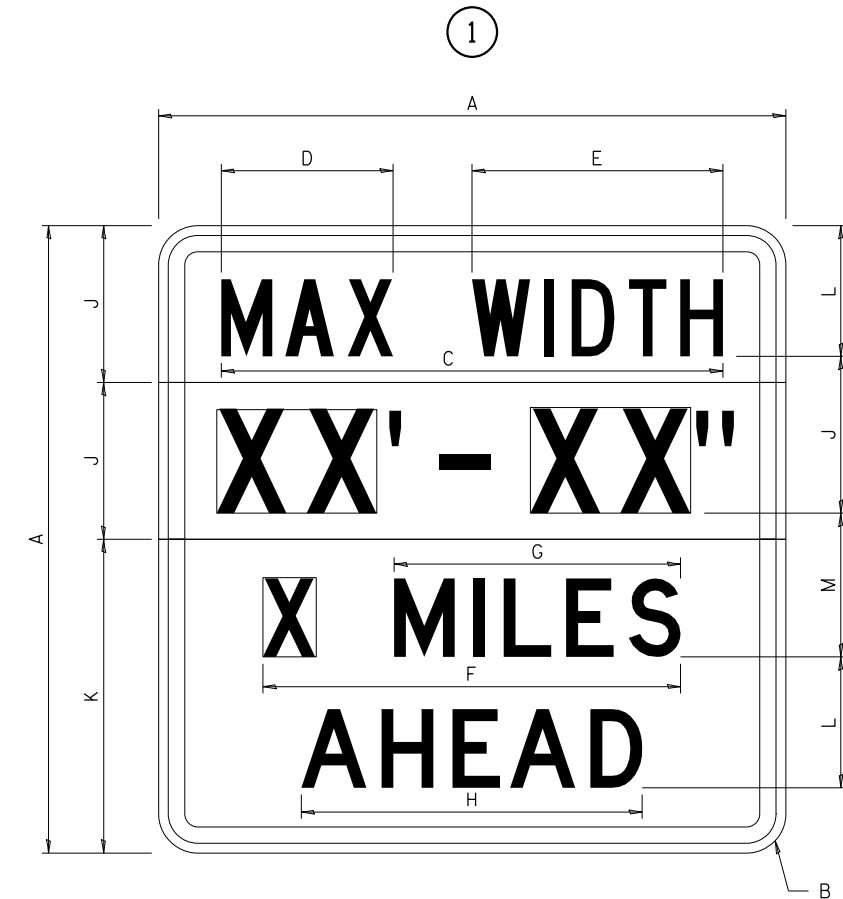
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WORK ZONE SIGN DETAILS

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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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

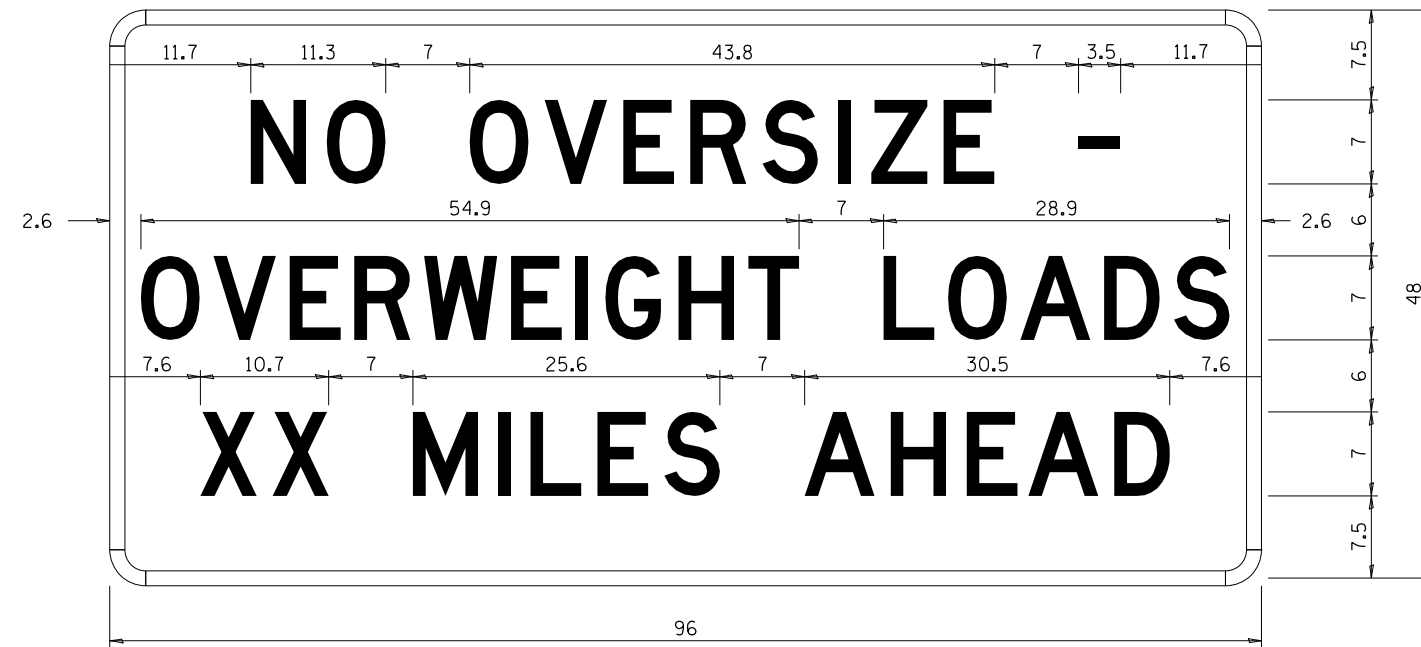
REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET XX OF XX SHEETS STA. TO STA.

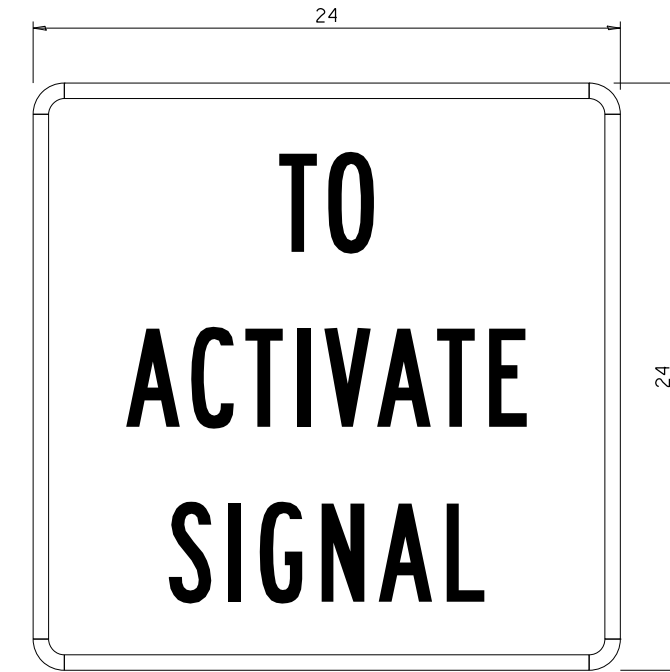
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525	D2 BDR 2020-1	BOONE	34	28
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

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.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

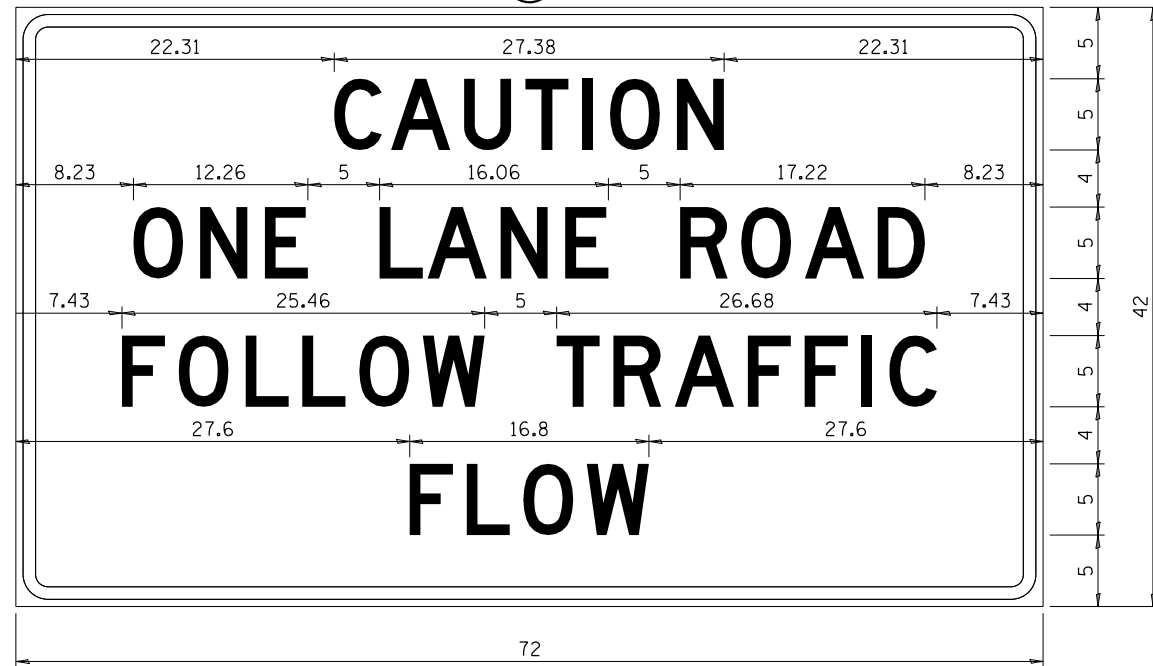
SCALE SHEET XX OF XX SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	29
CONTRACT NO. 64P38				
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	A	0.62	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
------	---	------	------	---	------	------	---	------	------	---	------	------

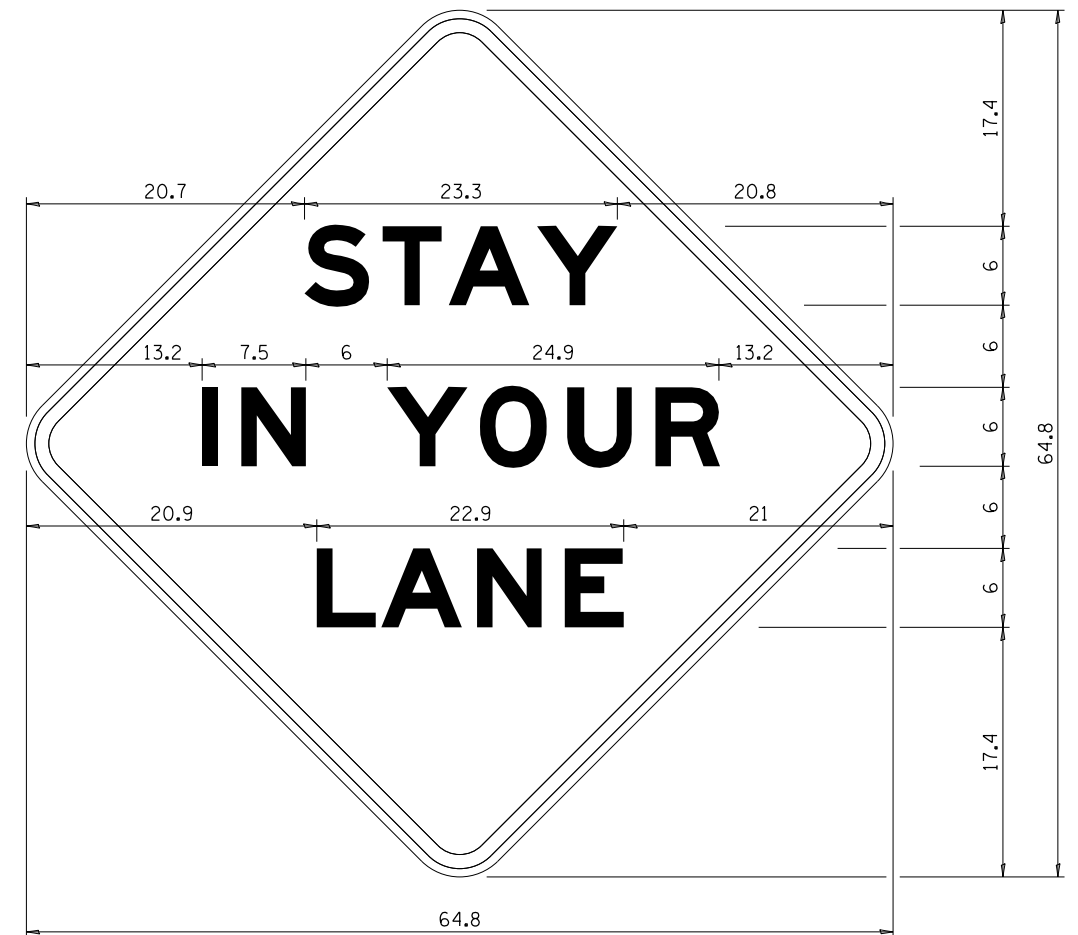
7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37
------	---	------	------	---	------	------	---	------	------	---	------	------	---	------	------	---	------

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

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.

FILE = S:\PROJECTS\2018\1427018.IDOT\DESIGN\CAD\SHEETS\W0 6\64P38.District_Details.dgn



USER NAME = Inelson	DESIGNED - LGN	REVISED - 3-02-16
PLOT SCALE = 24.0000' / ft.	DRAWN - GBG	REVISED -
PLOT DATE = 3/30/2020	CHECKED - GFS	REVISED -
	DATE - 3/30/20	REVISED -

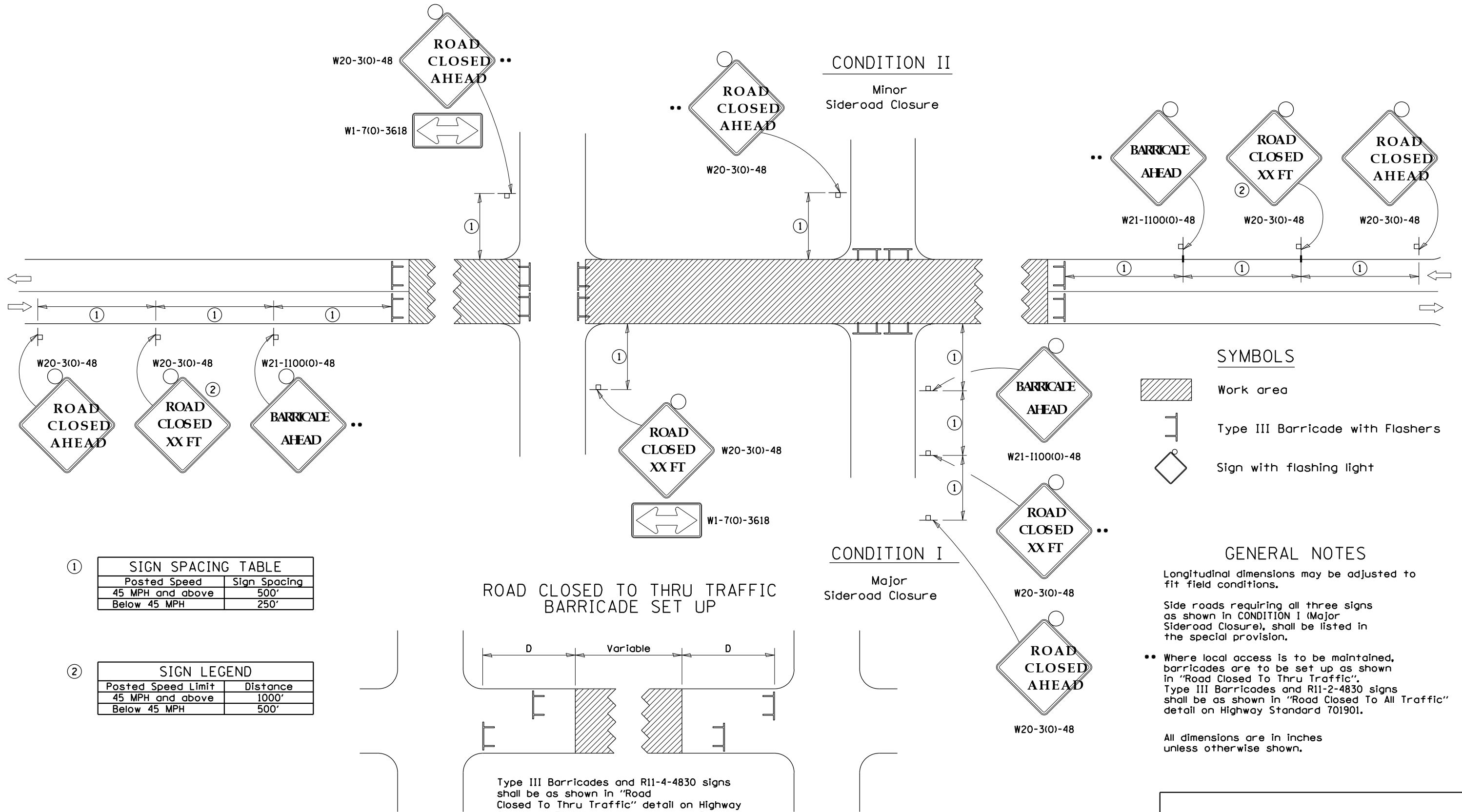
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET XX OF XX SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	30
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL FOR ROAD CLOSURE



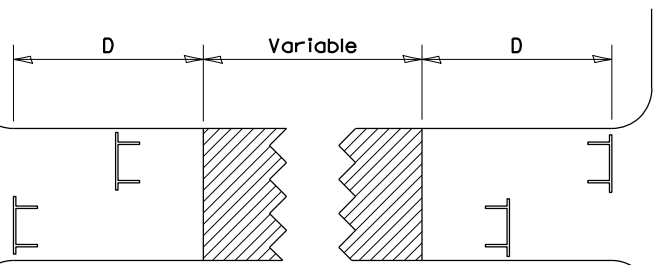
①

SIGN SPACING TABLE	
Posted Speed	Sign Spacing
45 MPH and above	500'
Below 45 MPH	250'

②

SIGN LEGEND	
Posted Speed Limit	Distance
45 MPH and above	1000'
Below 45 MPH	500'

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

TYPICAL APPLICATION FOR ROAD CLOSURE

FILE = S:\PROJECTS\2018\1427018.DISTRICT\DESIGN\CAD\SHEETS\W06\64P38.District_Details.dgn



USER NAME = Inelson	DESIGNED - LGN	REVISED - 8-03-17
	DRAWN - GBG	REVISED - 1-05-16
PLOT SCALE = 24.0000' / ft.	CHECKED - GFS	REVISED - 8-27-13
PLOT DATE = 3/30/2020	DATE - 3/30/20	REVISED - 10-17-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

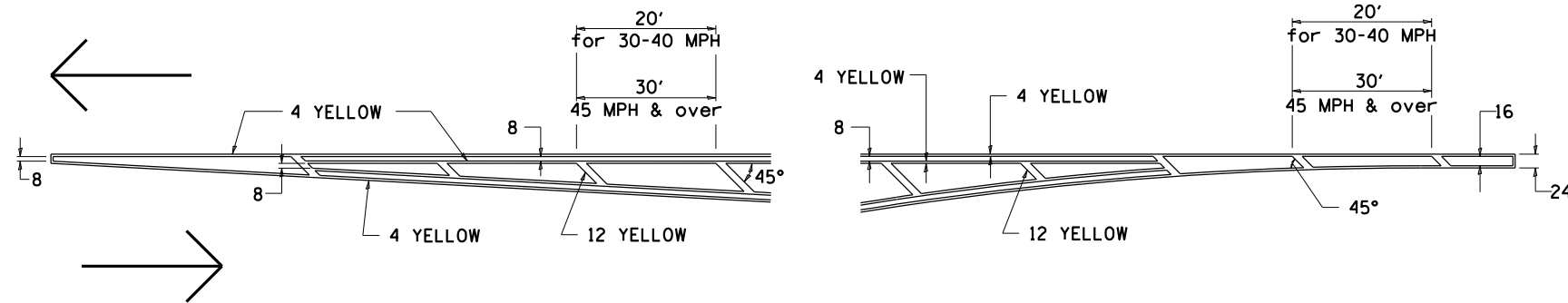
REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET XX OF XX SHEETS STA. TO STA.

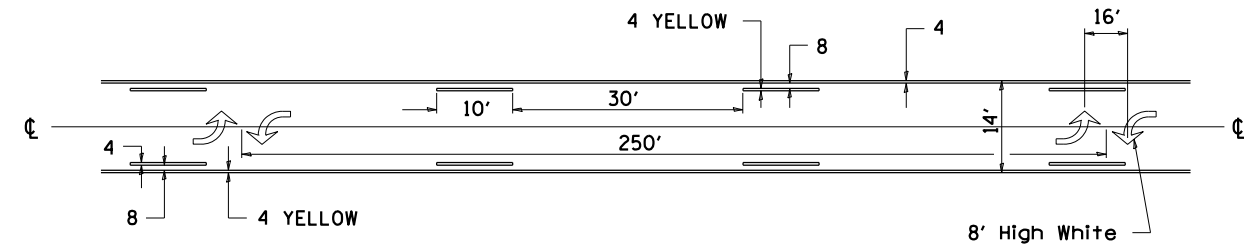
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	31
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

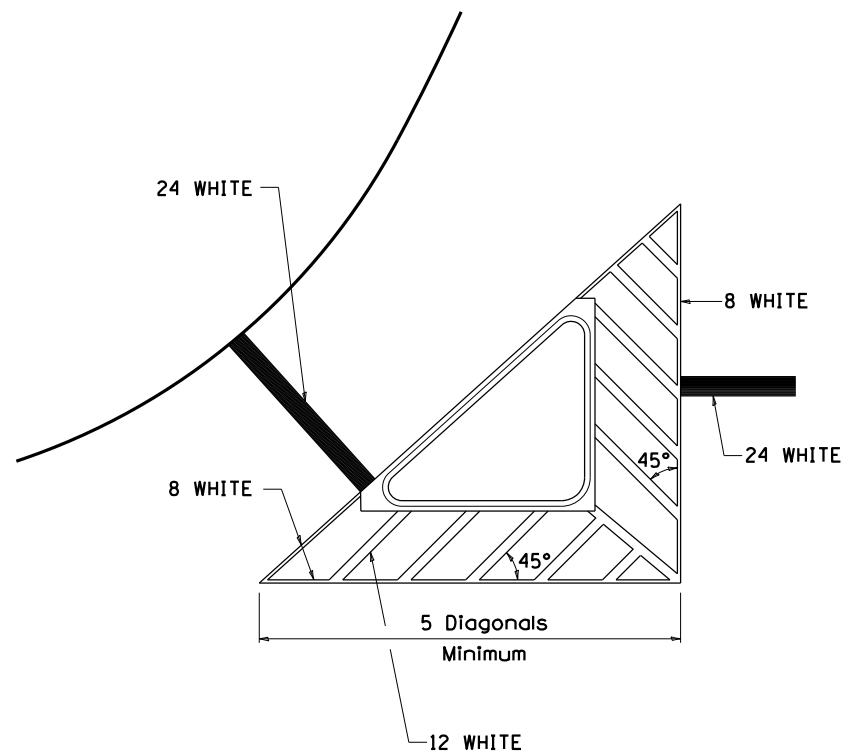


MEDIAN PAVEMENT MARKING



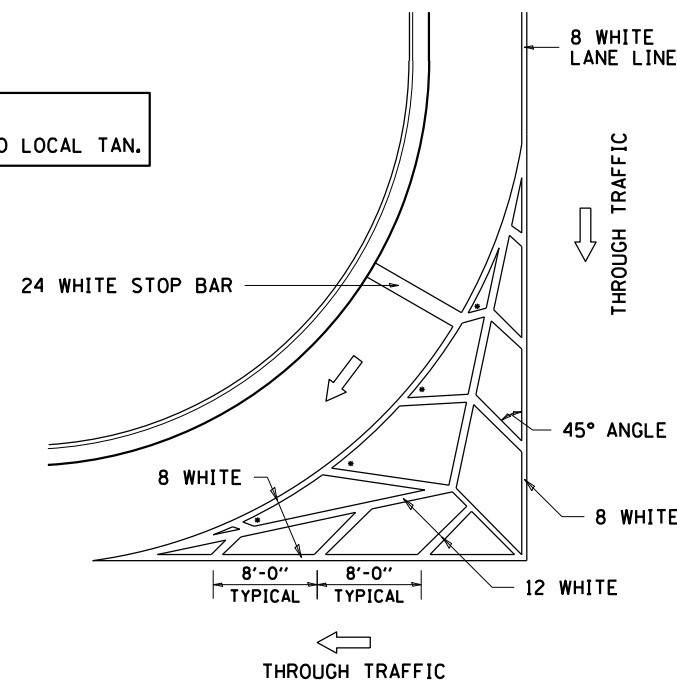
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



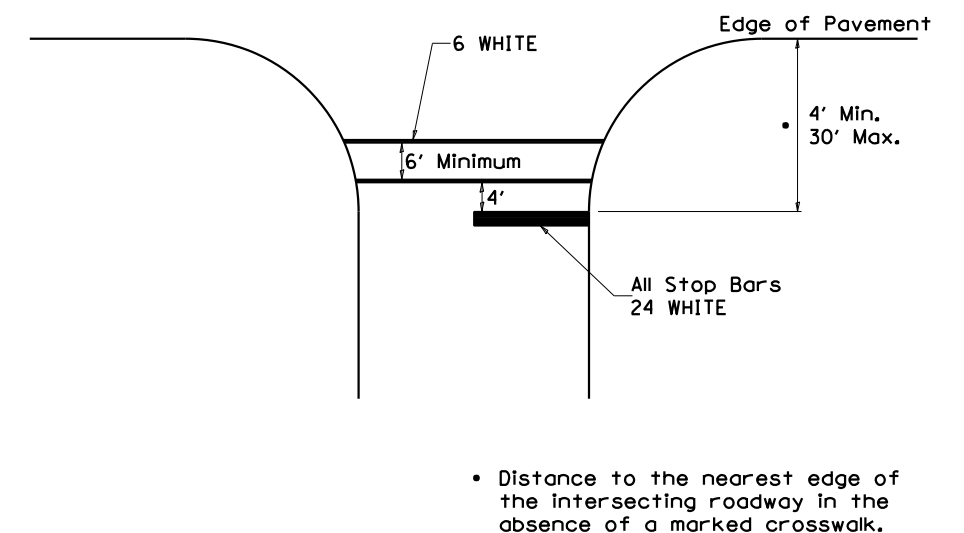
TYPICAL MARKING FOR PAINTED ISLANDS

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.

FILE = S:\PROJECTS\2018\1427018.IDOT\DESIGN\CAD\SHEETS\W0 6\64P38.District_Details.dgn



USER NAME = Inelson	DESIGNED - LGN	REVISED - 6-27-14
DRAWN - GBG	REVISED - 3-05-12	
PLOT SCALE = 24.0000' / ft.	CHECKED - GFS	REVISED -
PLOT DATE = 3/30/2020	DATE - 3/30/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

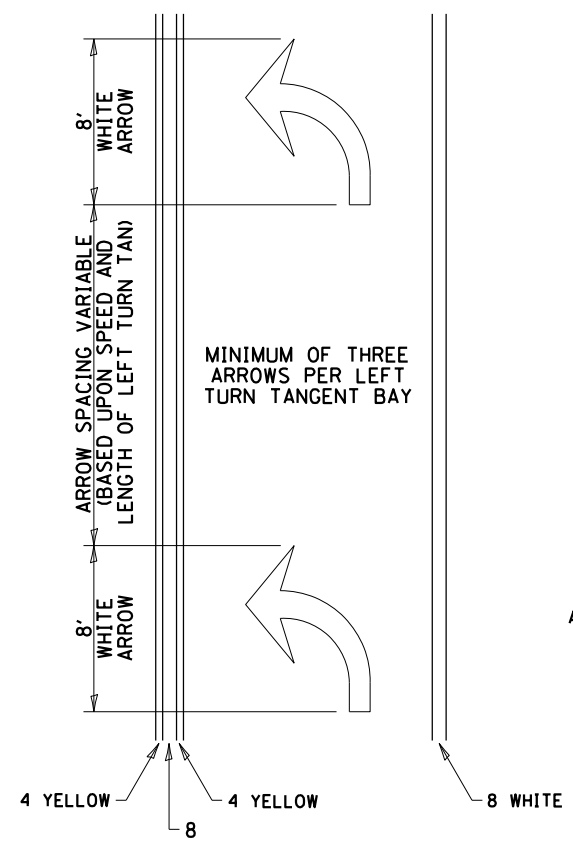
REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET XX OF XX SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	32
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

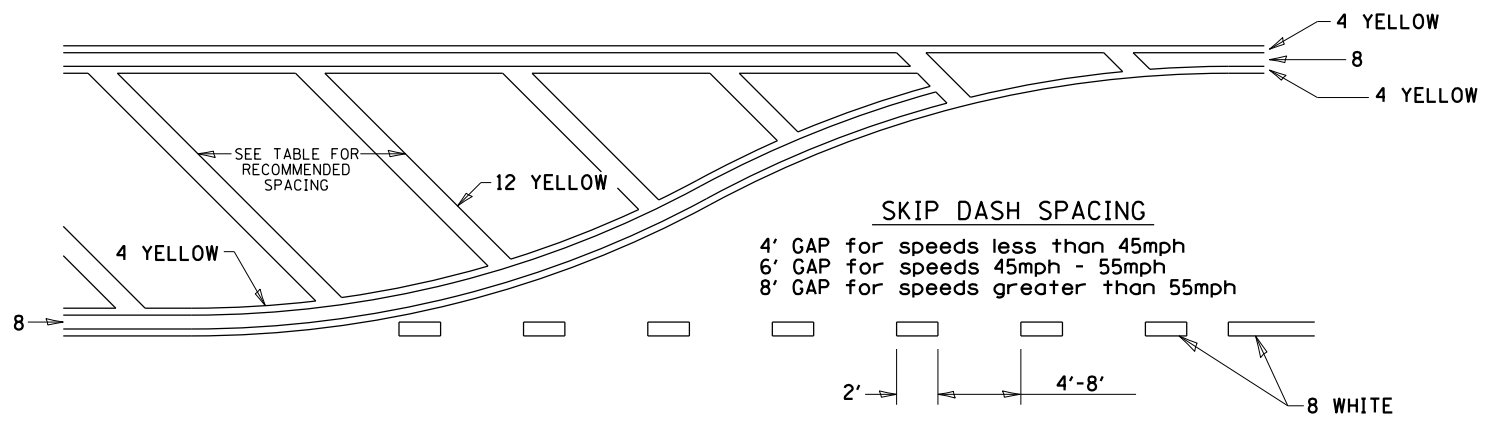
ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

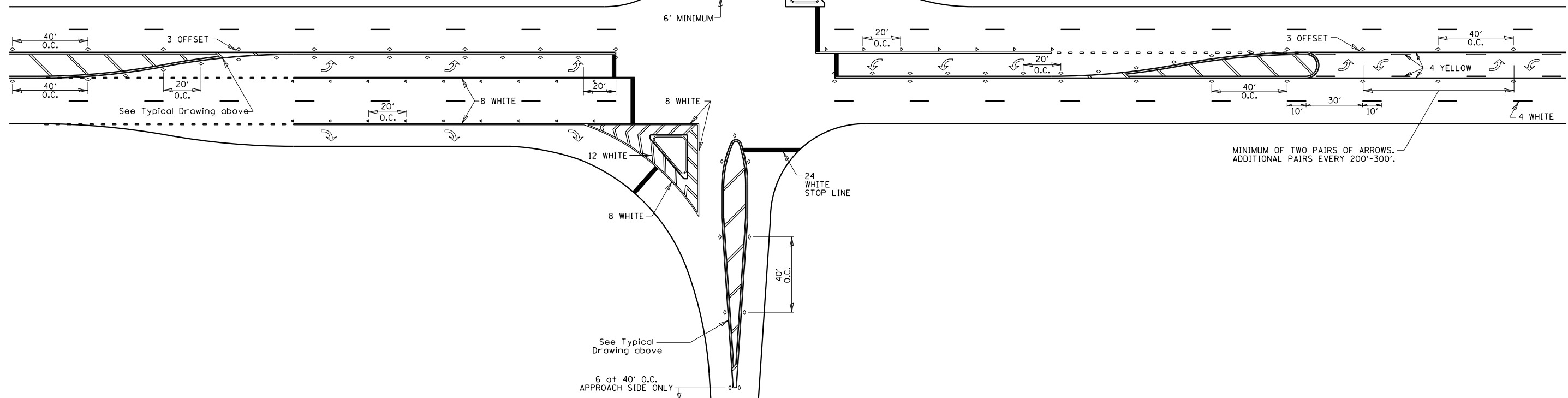
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



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\W0 6\64P38.District Details.dgn



USER NAME = Inelson	DESIGNED - LGN	REVISED - 6-27-14
PLOT SCALE = 24.0000' / ft.	DRAWN - GBC	REVISED - 3-05-12
PLOT DATE = 3/30/2020	CHECKED - GFS	REVISED -
	DATE - 3/30/20	REVISED -

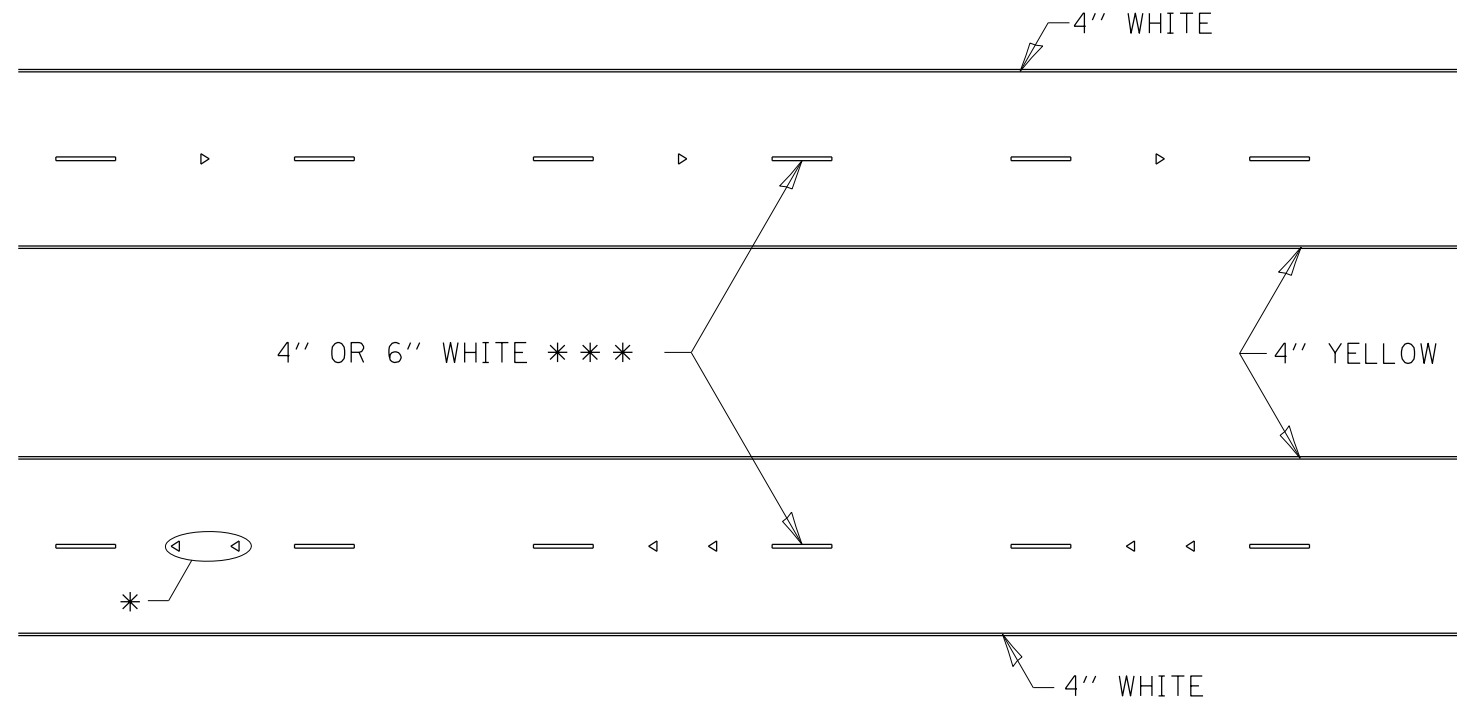
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET XX OF XX SHEETS STA. TO STA.

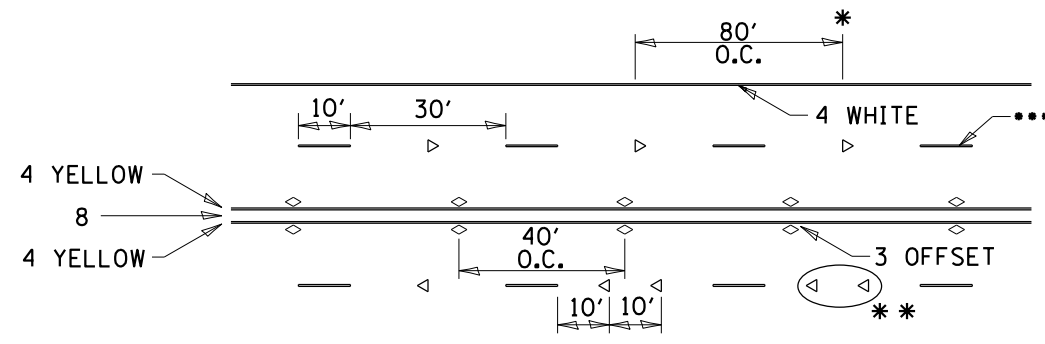
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	33
CONTRACT NO. 64P38				

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.

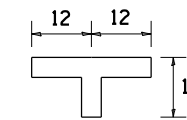
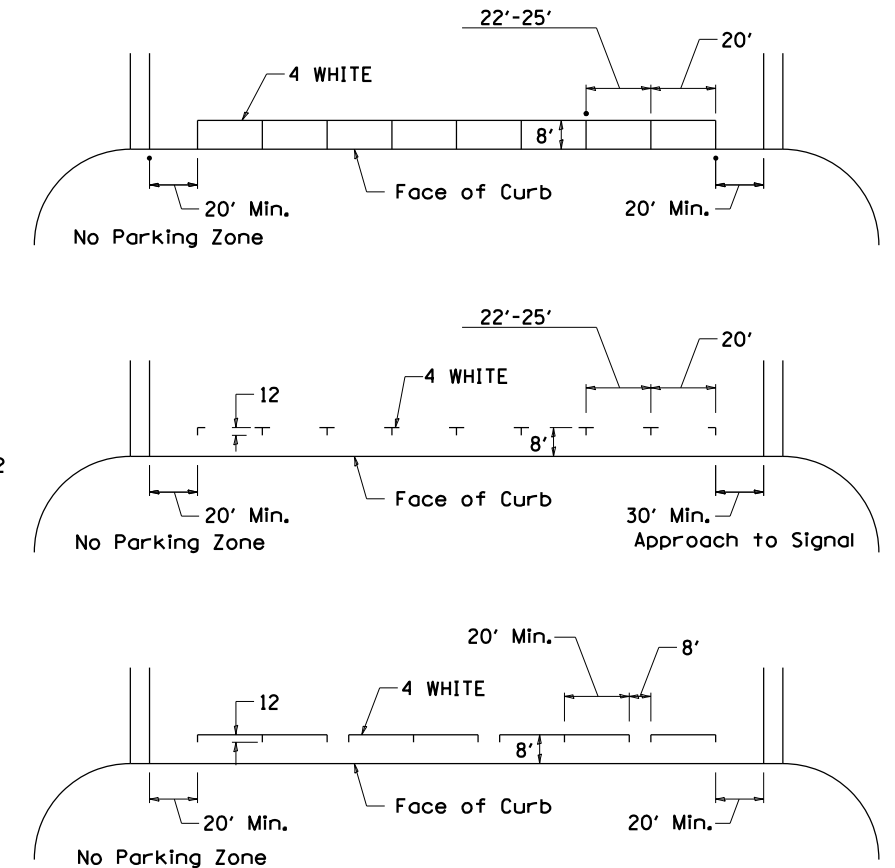
•• USE DOUBLE MARKERS WHEN ADT ≥ 20,000

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

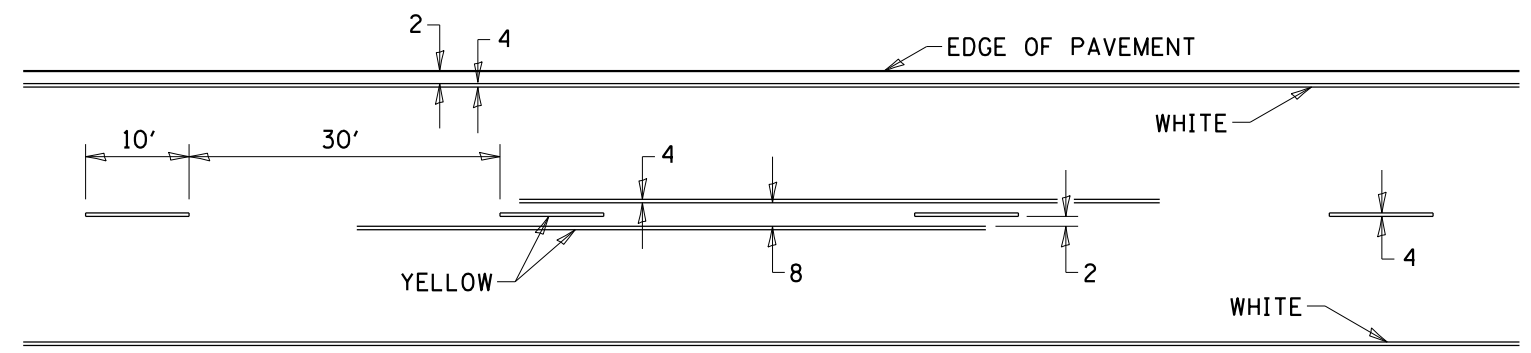
MULTI-LANE / UNDIVIDED & ONE WAY

(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

FILE = S:\PROJECTS\2018\1427018.IDOT\DESIGN\CAD\SHEETS\W0 6\64P38.District_Details.dgn



USER NAME = Inelson	DESIGNED - LGN	REVISED - 6-27-14
	DRAWN - GBG	REVISED - 8-27-13
PLOT SCALE = 24.0000' / ft.	CHECKED - GFS	REVISED - 11-28-12
PLOT DATE = 3/30/2020	DATE - 3/30/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE SHEET XX OF XX SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	D2 BDR 2020-1	BOONE	34	34
CONTRACT NO. 64P38				
ILLINOIS FED. AID PROJECT				