

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	1
ILLINOIS CONTRACT NO.62T07				

* 50 - 3 = 47 TOTAL SHEETS

D-91-232-22



FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENTS ARE LOCATED IN
UNINCORPORATED NUNDA TOWNSHIP

DESIGN DESIGNATION

IL 176 (STATE ROAD) : OTHER PRINCIPAL ARTERIAL

TRAFFIC DATA (IL 176)

ADT = 17,600 (2022)

% TRUCKS = 9.3%

DESIGN SPEED (POSTED SPEED)

IL 176 (STATE RD) = 40 MPH (40 MPH) WEST LEG

IL 176 (STATE RD) = 40 MPH (45 MPH) EAST LEG

PROPOSED
HIGHWAY PLANS

FAP ROUTE 335 IL176 (STATE RD)

OVER FOX RIVER

SECTION: FAP 0335 22 BJ

PROJECT: NHPP-HIRD(902)

BRIDGE DECK OVERLAY, BRIDGE JOINT REPAIR

MCHENRY COUNTY

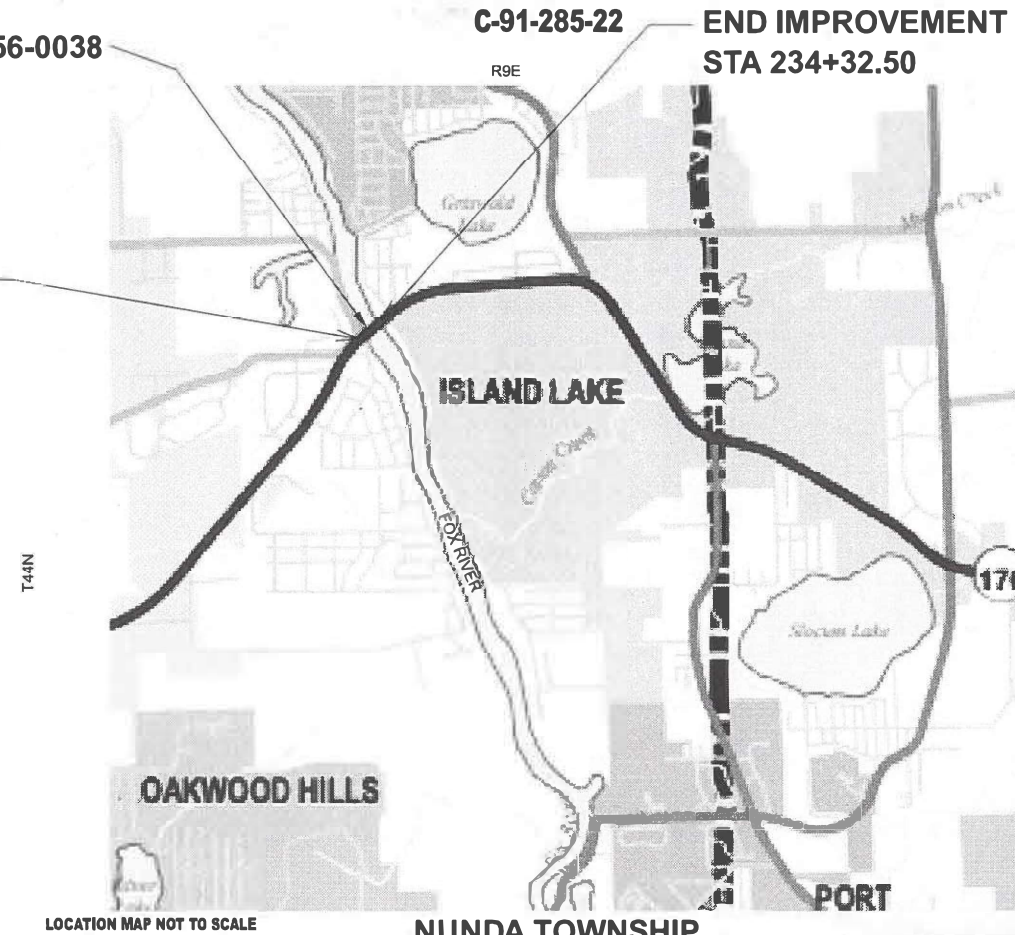
BEGIN IMPROVEMENT (IL 176)
STA 228+78.33

SN 056-0038

C-91-285-22

END IMPROVEMENT (IL 176)

STA 234+32.50



LOCATION MAP NOT TO SCALE

NUNDA TOWNSHIP

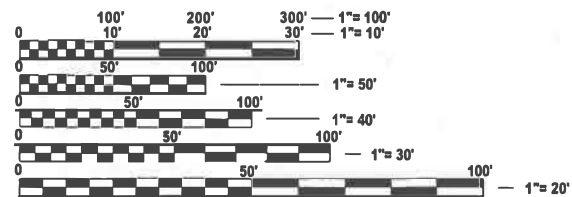
GROSS AND NET LENGTH = 554.17 FT. = 0.103 MILE



DATE: 06/21/2024
LICENSE EXPIRES 11-30-2025
MATT J. LEHAN
MICHAEL BAKER INTERNATIONAL
SHEETS 1 TO 18, 43 TO 50



DATE: 06/21/2024
LICENSE EXPIRES 11-30-2024
JOSEPH M. KAUZLARICH
MICHAEL BAKER INTERNATIONAL
SHEETS 19 TO 42



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: DANIEL WILGREEN (847) 705-4240
PROJECT MANAGER: J. ALAIN MIDY (847) 221-3056

CONTRACT NO.62T07

Michael Baker

INTERNATIONAL
200 W Adams Street, Suite 1800, Chicago, IL 60606
Phone: (312) 707-8770 · MBAKERINTL.COM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED June 21 2024
Joseph M. Kauzlarich IR
REGIONAL ENGINEER

August 16, 2024
Joseph M. Kauzlarich
ENGINEER OF DESIGN AND ENVIRONMENT

August 16, 2024
James J. ...
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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48		DELETED
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HIGHWAY STANDARDS

STD. NO.	STANDARD TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BAR
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
610001-09	SHOULDER INLET WITH CURB
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701201-05	LANE CLOSURE, 2L 2W, DAY ONLY FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS- DAY ONLY
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE UNINCORPORATED NUNDA TOWNSHIP.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON THE STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN@ILLINOIS.GOV A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT WALTER.CZARNY@ILLINOIS.GOV AT LEAST (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO THE EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
- ANY SIGNAGE, PAVEMENT MARKINGS, AND REFLECTORS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE THROUGHOUT THE DURATION OF THE CONTRACT AND MAINTAIN ALL PUBLIC AND PRIVATE DRAINS.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEERS.
- ALL SHORT TERM PAVEMENT MARKINGS ON THE FINAL WEARING SURFACES SHALL BE TYPE IV TAPE.
- EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITY AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES.
- MEADE ELECTRIC COMPANY, THE IDOT DISTRICT ONE ELECTRICAL MAINTENANCE CONTRACTOR, LOCATES IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES. CALL 773-287-7672 FOR THE INITIAL LOCATE. REQUEST FOR LOCATES OF PREVIOUSLY MARKED FACILITIES MAY BE AT THE CONTRACTOR'S EXPENSE.
- IN ADDITIONAL TO FIELD REVIEW AND AERIAL DATA, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND AERIALS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO ROUTINE VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE BID PRICE FOR THE WORK.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
- THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION 11/G/1/ THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A USACE PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE PERMIT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPOSE USACE PERMITS. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO SECURE AND COMPLY WITH A USACE PERMIT FOR CONTRACTOR'S ACTIVITIES WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

- FOR WORK OUTSIDE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT SHALL BE EPOXY COATED UNLESS NOTED ON THE PLANS.
- IL 176 (STATE ROAD) CENTERLINE IS RECREATED FROM AS-BUILT PLANS AND IS FOR INFORMATION ONLY.

COMMITMENTS

- NONE.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS & GENERAL NOTES
IL 176 OVER FOX RIVER

SCALE: Full Size 1 = 1 SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	2
				CONTRACT NO. 62T07
ILLINOIS FED. AID PROJECT				

USER NAME = Zach.Tanner	DESIGNED - ZJT	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN - MFK	REVISED -
PLOT DATE = 8/5/2024	CHECKED - JAL	REVISED -
	DATE - 04/05/2024	REVISED -

MODEL: Summary of Quantities (Sheet)
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% STATE BRIDGE 0059 SN 056-0038
28000510	INLET FILTERS	EACH	4	4
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	278	278
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	350	350
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	61	61
44000100	PAVEMENT REMOVAL	SQ YD	45	45
50102400	CONCRETE REMOVAL	CU YD	10.9	10.9
50300255	CONCRETE SUPERSTRUCTURE	CU YD	12.4	12.4
50300300	PROTECTIVE COAT	SQ YD	1,831	1,831
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,760	1,760
50800515	BAR SPLICERS	EACH	48	48
52000110	PREFORMED JOINT STRIP SEAL	FOOT	84	84
58700300	CONCRETE SEALER	SQ FT	3,036	3,036
67100100	MOBILIZATION	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	30	30

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% STATE BRIDGE 0059 SN 056-0038
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	5,097	5,097
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	15,290	15,290
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,300	1,300
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,425	1,425
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2
70600322	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	4	4
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5,975	5,975
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	294	294
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1,657	1,657
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	120	120
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4	4
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6	6
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	2,959	2,959

* SPECIALTY ITEM

Michael Baker

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200 West Adams Street, Suite 1800, Chicago, IL 60606
Phone: (312) 707-8770 - MBAKERINTL.COM

USER NAME = Zach.Tanner
PLOT SCALE = 0.16666633' / in.
PLOT DATE = 6/26/2024

DESIGNED - ZJT
DRAWN - MFK
CHECKED - JAL
DATE - 04/05/2024

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL 176 OVER FOX RIVER**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	3
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

REV-SEP

MODEL: Summary of Quantities (Sheet)
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% STATE BRIDGE 0059 SN 056-0038	
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,101	1,101	
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	56	56	
* X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	56	56	
Z0001700	APPROACH SLAB REPAIR (FULL DEPTH)	SQ YD	2	2	
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	16	16	
Z0006016	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 3/4 INCHES	SQ YD	1,808	1,808	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1,808	1,808	
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	82	82	
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	33	33	
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1	
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	5	5	
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1,651	1,651	

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				80% FED 20% STATE BRIDGE 0059 SN 056-0038	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	64	64	
Z0062458	TEMPORARY PAVEMENT (VARIABLE DEPTH)	TON	3	3	
X6420502	INLET BOXES TO BE RECONSTRUCTED (SPECIAL)	EACH	4	4	

* SPECIALTY ITEM

Michael Baker

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 200 West Adams Street, Suite 1800, Chicago, IL 60606
 Phone: (312) 707-8770 - MBAKERINTL.COM

USER NAME = Zach.Tanner	DESIGNED - ZJT	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN - MFK	REVISED -
PLOT DATE = 6/26/2024	CHECKED - JAL	REVISED -
	DATE - 04/05/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

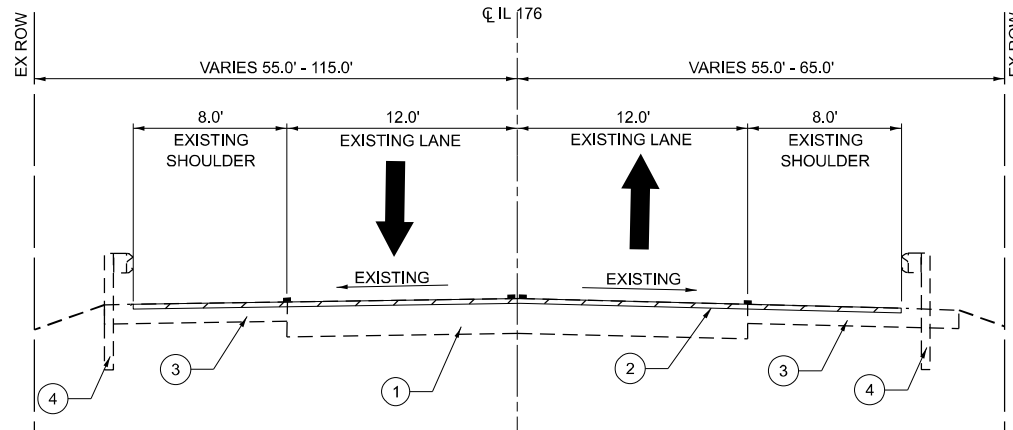
**SUMMARY OF QUANTITIES
 IL 176 OVER FOX RIVER**

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

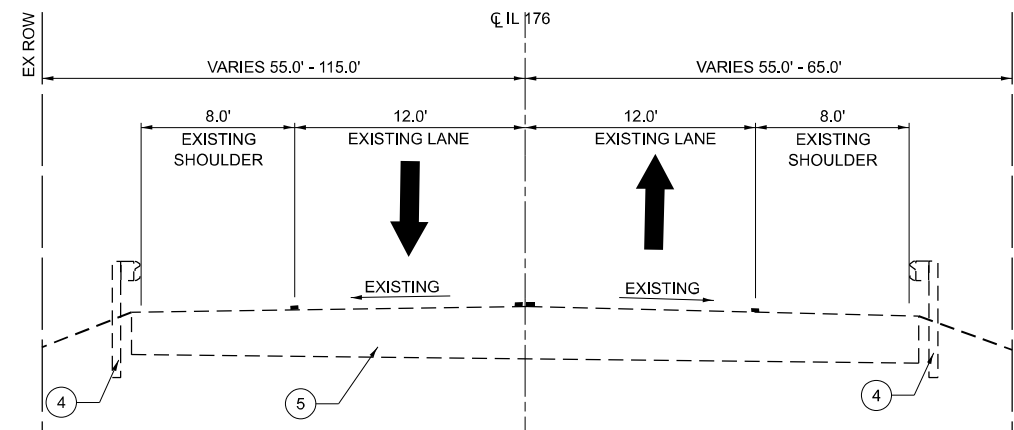
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	4
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

REV-SEP

MODEL: TYPICAL SHEET (Sheet)
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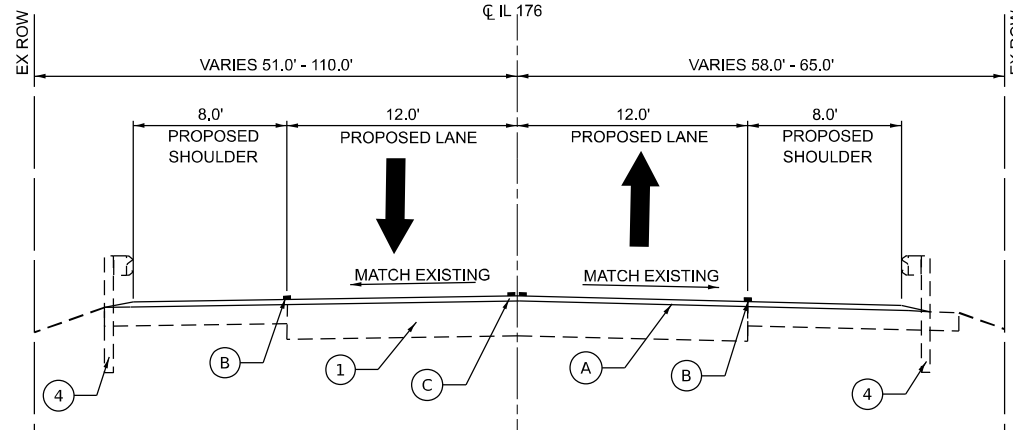


EXISTING TYPICAL SECTION (40' HMA TAPER)*
 STA. 228+78.33 TO STA. 229+18.33 (WEST TAPER)
 STA. 233+92.50 TO STA. 234+32.50 (EAST TAPER)

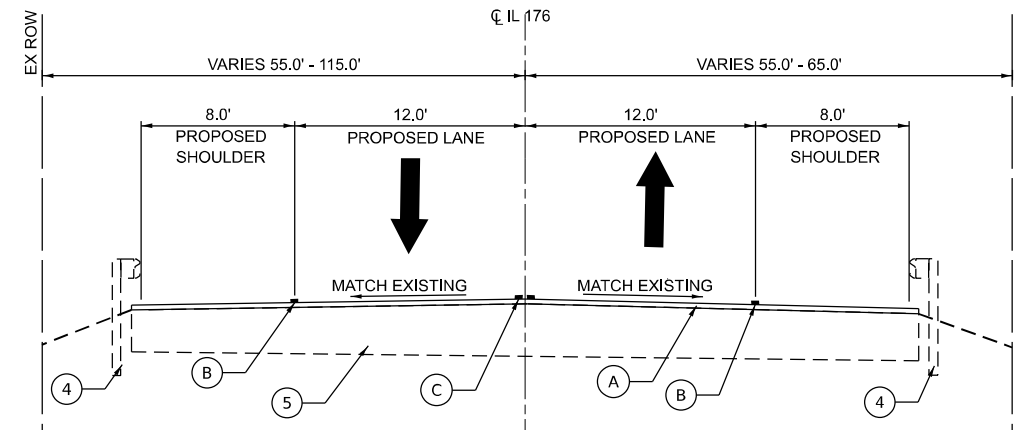


EXISTING TYPICAL SECTION (30' APPROACH SLAB)*
 STA 229+18.33 TO STA 229+48.33 (WEST APPROACH SLAB)
 STA 233+62.50 TO STA 233+92.50 (EAST APPROACH SLAB)
 STA 229+48.33 TO STA 233+62.50 (BRIDGE OMISSION)

- EXISTING LEGEND**
- ① EXISTING HOT-MIX ASPHALT PAVEMENT
 - ② HMA SURFACE REMOVAL - BUTT JOINT
 - ③ EXISTING HOT-MIX ASPHALT SHOULDER
 - ④ EXISTING TRAFFIC BARRIER TERMINALS
 - ⑤ EXISTING CONCRETE APPROACH SLAB
- TO BE REMOVED



PROPOSED TYPICAL SECTION (40' HMA TAPER)*
 STA. 228+78.33 TO STA. 229+18.33 (WEST 40' TAPER)
 STA. 233+92.50 TO STA. 234+32.50 (EAST 40' TAPER)



PROPOSED TYPICAL SECTION (30' APPROACH SLAB)*
 STA 229+18.33 TO STA 229+48.33 (WEST APPROACH SLAB)
 STA 233+62.50 TO STA 233+92.50 (EAST APPROACH SLAB)
 STA 229+48.33 TO STA 233+62.50 (BRIDGE OMISSION)

- PROPOSED LEGEND**
- (A) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", IL-9.5, N70 (1 3/4")
 - (B) THERMOPLASTIC PAVEMENT MARKING - LINE 4", WHITE
 - (C) THERMOPLASTIC PAVEMENT MARKING - LINE 4", DOUBLE YELLOW

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ NDES	QMP
PAVEMENT OVERLAY & BUTT JOINT		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL 9.5, MIX "E", N70, 1.75"	4% @ 70 Gyr.	QC/QA
TEMPORARY PAVEMENT (VARIABLE DEPTH)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70 (VAR DEPTH)	4% @ 70 GYR.	QC/QA

QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)

NOTES FOR HMA MIXTURE REQUIREMENTS
 1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
 2. THE AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

NOTES:
 1. REFER TO PAVEMENT OVERLAY DETAIL FOR MORE INFORMATION.

Michael Baker INTERNATIONAL
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PLOT DATE = 6/14/2024	CHECKED - JAL	REVISED -
	DATE - 04/05/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
 IL 176 OVER FOX RIVER**

SCALE: FULL SIZE 1=1 SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	5
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

MOT GENERAL NOTES

- TRAFFIC CONDITIONS, CRASHES, AND OTHER UNFORSEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. COMPLIANCE WITH THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- THE MAINTENANCE OF TRAFFIC PLANS SHALL SERVE AS A GUIDE FOR THE SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THE CONTRACT. THE CONTRACTOR MAY MODIFY THE MAINTENANCE OF TRAFFIC PLANS TO MEET CONSTRUCTION NEEDS, BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- THE CONTRACTOR SHALL REMOVE ALL TEMPORARY OR EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE STAGING. REMOVAL OF EXISTING PAVEMENT MARKINGS ON PAVEMENT TO REMAIN WILL BE PAID FOR AS PAVEMENT MARKING REMOVAL - WATER BLASTING.
- ALL TRAFFIC CONTROL DEVICES INCLUDING, BUT NOT LIMITED TO, DRUMS, VERTICAL PANELS, AND BARRICADES IMMEDIATELY ADJACENT TO THE EDGE OF TRAVELLED WAY SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS.
- DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID ANY CONSTRUCTION DEBRIS FROM ENCROACHING INTO THE TRAVEL LANES.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- CONTRACTOR SHALL MAINTAIN SATISFACTORY INGRESS AND EGRESS TO ADJACENT PROPERTIES THROUGHOUT THE CONSTRUCTION.
- CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED TWO WEEKS PRIOR TO ALL TRAFFIC STAGE CHANGES ON EACH APPROACH OF THE EFFECTED ROADWAY TO WARN MOTORISTS OF THE UPCOMING EVENT. THE SIGN MESSAGES SHALL BE REVISED TWO WEEKS THEREAFTER WITH MESSAGES WARNING TRAFFIC OF POTENTIAL TRAFFIC DELAYS, QUEUING AND/OR WITH MESSAGES NOTIFYING TRAFFIC TO USE ALTERNATE ROUTES. THE SIGN LOCATIONS AND MESSAGES SHALL BE DETERMINED BY THE ENGINEER.
- ALL SIGNAGE TO BE IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). MAINTENANCE OF TRAFFIC SHOWN IS THE MINIMUM REQUIRED; THE CONTRACTOR SHALL PROVIDE ADDITIONAL TRAFFIC CONTROL MEASURES AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- WORK ZONE SPEED LIMIT IS 35 MPH.
- EXISTING RAISED REFLECTIVE PAVEMENT MARKER REFLECTORS WITHIN MAINTENANCE OF TRAFFIC LIMITS AND OUTSIDE OF CONSTRUCTION LIMITS SHALL BE REMOVED PRIOR TO CONSTRUCTION AND REPLACED AT THE END OF ALL STAGES OF CONSTRUCTION. FINAL LIMITS OF REFLECTOR REPLACEMENT TO BE DETERMINED BY THE ENGINEER.

SUGGESTED SEQUENCE OF CONSTRUCTION

IL-176 PRE-STAGE

- CLOSE LANES AS NEEDED PER IDOT SHORT-TERM TRAFFIC CONTROL STANDARDS.
- REMOVE CONFLICTING EXISTING PAVEMENT MARKINGS AND COVER SIGNS AS DIRECTED BY THE ENGINEER.

IL-176 STAGE 1

- SHIFT TRAFFIC AS SHOWN ON THE SUGGESTED TRAFFIC CONTROL PLANS STAGE 1 SHEETS.
- REPLACE BRIDGE JOINTS AND REPAIR APPROACH SLABS ON SOUTH THIRD OF BRIDGE
- SCARIFY BRIDGE DECK ON SOUTH THIRD OF BRIDGE, AND PLACE LATEX CONCRETE OVERLAY ON BRIDGE.
- AT SOUTH THIRD OF BRIDGE, CONSTRUCT BUTT JOINT AND PLACE TEMPORARY PAVEMENT (VARIABLE DEPTH).

IL-176 STAGE 2

- SHIFT TRAFFIC AS SHOWN ON THE SUGGESTED TRAFFIC CONTROL PLANS STAGE 2 SHEETS.
- REPLACE BRIDGE JOINTS AND REPAIR APPROACH SLABS ON CENTER THIRD OF BRIDGE.
- SCARIFY BRIDGE DECK ON CENTER THIRD OF BRIDGE, AND PLACE LATEX CONCRETE OVERLAY ON BRIDGE.
- AT CENTER THIRD OF BRIDGE, CONSTRUCT BUTT JOINT AND PLACE TEMPORARY PAVEMENT (VARIABLE DEPTH).

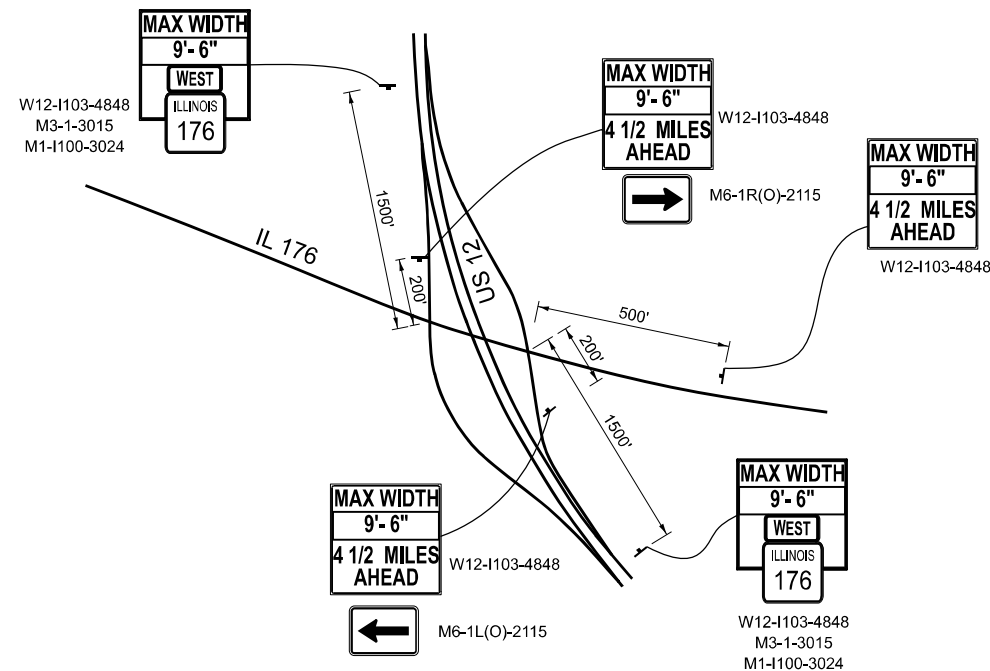
IL-176 STAGE 3

- SHIFT TRAFFIC AS SHOWN ON THE SUGGESTED TRAFFIC CONTROL PLANS STAGE 3 SHEETS.
- REPLACE THE BRIDGE JOINTS AND REPAIR THE BRIDGE APPROACH SLABS ON THE NORTH THIRD OF THE BRIDGE.
- SCARIFY BRIDGE DECK ON NORTH THIRD OF BRIDGE, AND PLACE LATEX CONCRETE OVERLAY ON BRIDGE.
- AT NORTH SIDE OF BRIDGE, CONSTRUCT BUTT JOINT AND PLACE TEMPORARY PAVEMENT (VARIABLE DEPTH).

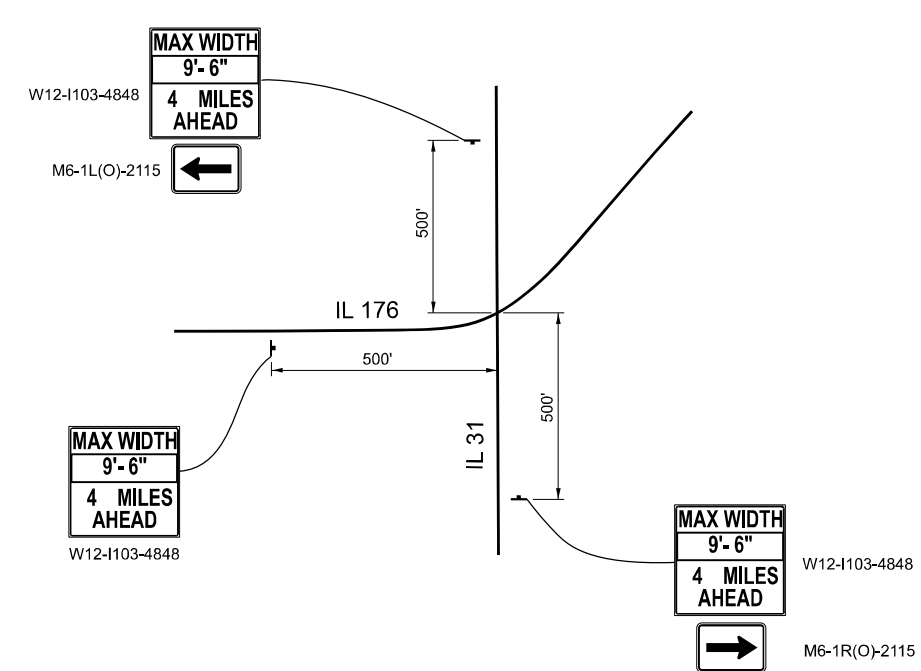
IL-176 FINAL CONSTRUCTION

- UTILIZE SHORT-TERM AND DAY TIME LANE CLOSURES PER IDOT TRAFFIC CONTROL STANDARDS.
- REMOVE THE TEMPORARY PAVEMENT (VARIABLE DEPTH) AND CONSTRUCT BUTT JOINTS AND HMA PAVEMENT OVERLAY.
- PLACE FINAL PAVEMENT MARKINGS AND RE-INSTALL EXISTING PAVEMENT MARKER REFLECTORS.
- REMOVE TEMPORARY EROSION CONTROL.
- PUNCH LIST AND CLEANUP.

WIDTH RESTRICTION SIGNING IL 176 WESTBOUND TRAFFIC



WIDTH RESTRICTION SIGNING IL 176 EASTBOUND TRAFFIC



MODEL: MOT Notes (Sheet)
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USER NAME = Zach.Tanner	DESIGNED - ZJT	REVISED -
DRAWN - MFK	REVISIONS -	
PLOT SCALE = 0.16666633' / in.	CHECKED - JAL	REVISED -
PLOT DATE = 8/5/2024	DATE - 04/05/2024	REVISED -

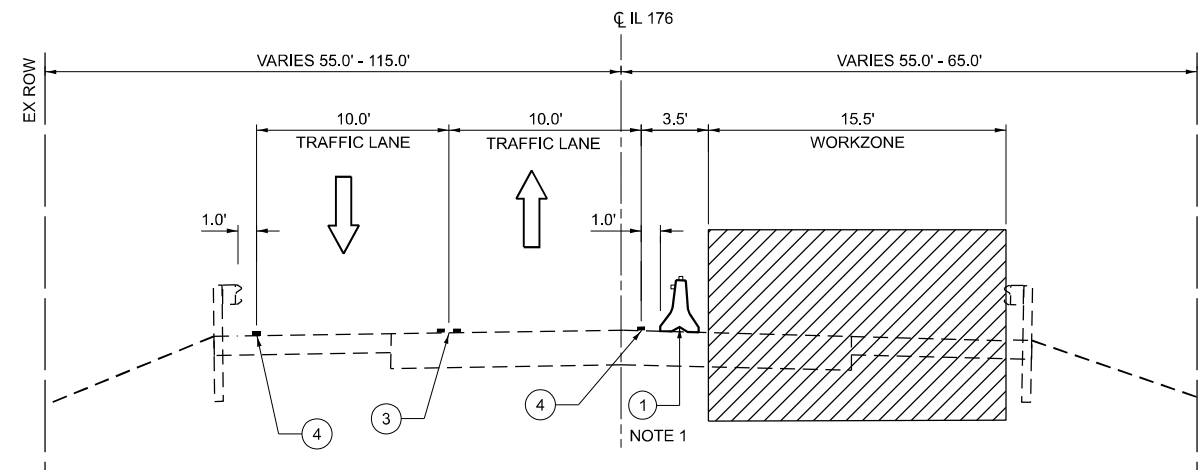
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC NOTES & SEQUENCE OF CONSTRUCTION
IL 176 OVER FOX RIVER

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	6
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

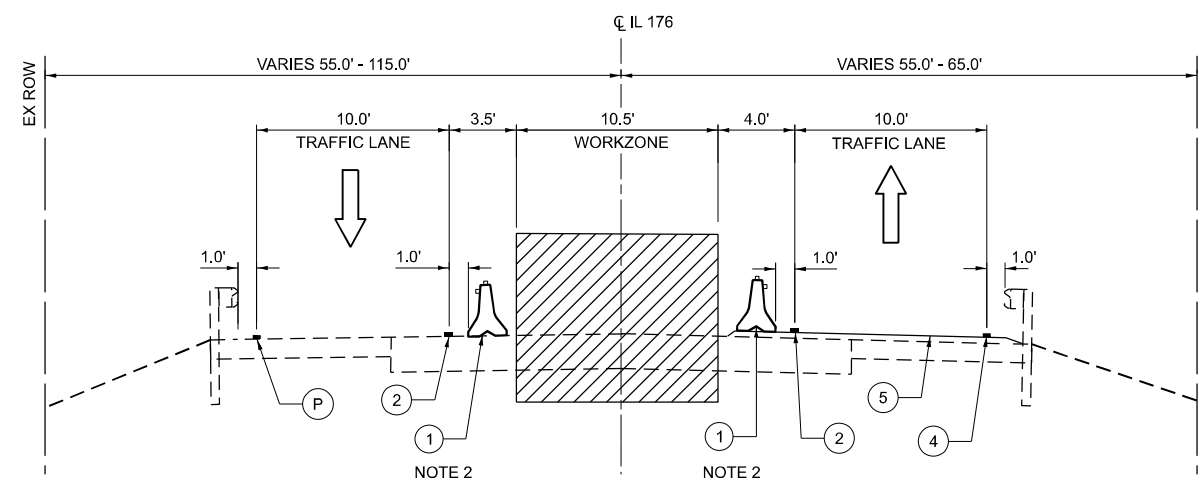
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NOTE 1: TEMPORARY CONCRETE BARRIER WITH DOUBLE SIDED CRYSTAL TYPE C REFLECTORS PER STANDARDS 704001 AND 782006

MAINTENANCE OF TRAFFIC - STAGE 1

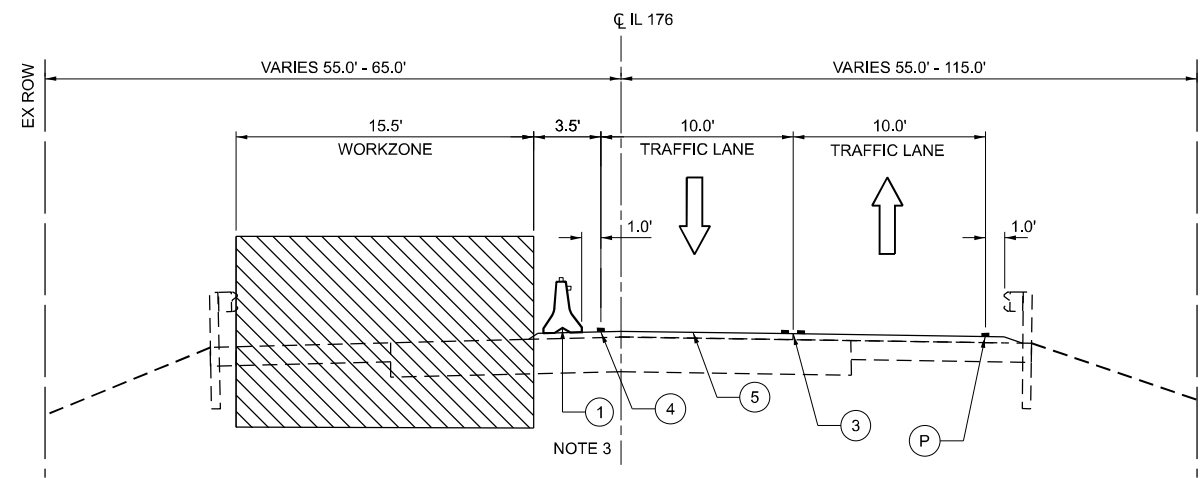
IL 176 (STATE ROAD) EAST & WEST OF FOX RIVER



NOTE 2: TEMPORARY CONCRETE BARRIER WITH AMBER TYPE C REFLECTORS PER STANDARDS 704001 AND 782006

MAINTENANCE OF TRAFFIC - STAGE 2

IL 176 (STATE ROAD) EAST & WEST OF FOX RIVER



NOTE 3: TEMPORARY CONCRETE BARRIER WITH DOUBLE SIDED CRYSTAL TYPE C REFLECTORS PER STANDARDS 704001 AND 782006

MAINTENANCE OF TRAFFIC - STAGE 3

IL 176 (STATE ROAD) EAST & WEST OF FOX RIVER

PROPOSED LEGEND

- ① TEMPORARY CONCRETE BARRIER
- ② TEMPORARY PAVEMENT MARKING LINE 4", TYPE IV TAPE (YELLOW)
- ③ TEMPORARY PAVEMENT MARKING LINE 4", TYPE IV TAPE (DOUBLE YELLOW)
- ④ TEMPORARY PAVEMENT MARKING LINE 4", TYPE IV TAPE (SOLID WHITE)
- ⑤ TEMPORARY PAVEMENT (VARIABLE DEPTH)
- Ⓟ PLACED IN PREVIOUS STAGE

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	DRAWN - MFK	REVISED -
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PLOT DATE = 8/5/2024	DATE - 04/05/2024	REVISED -

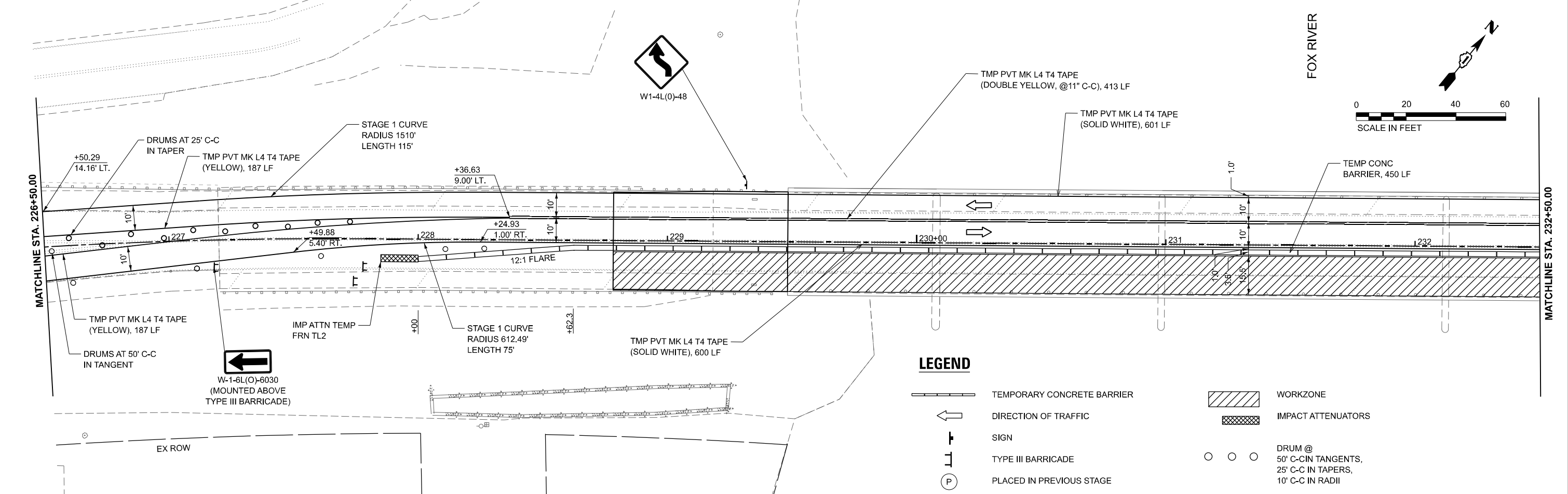
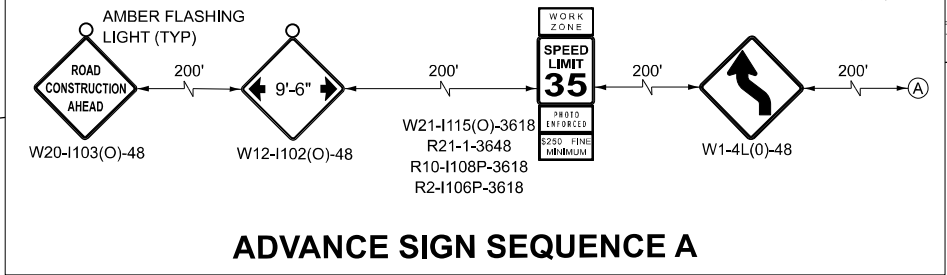
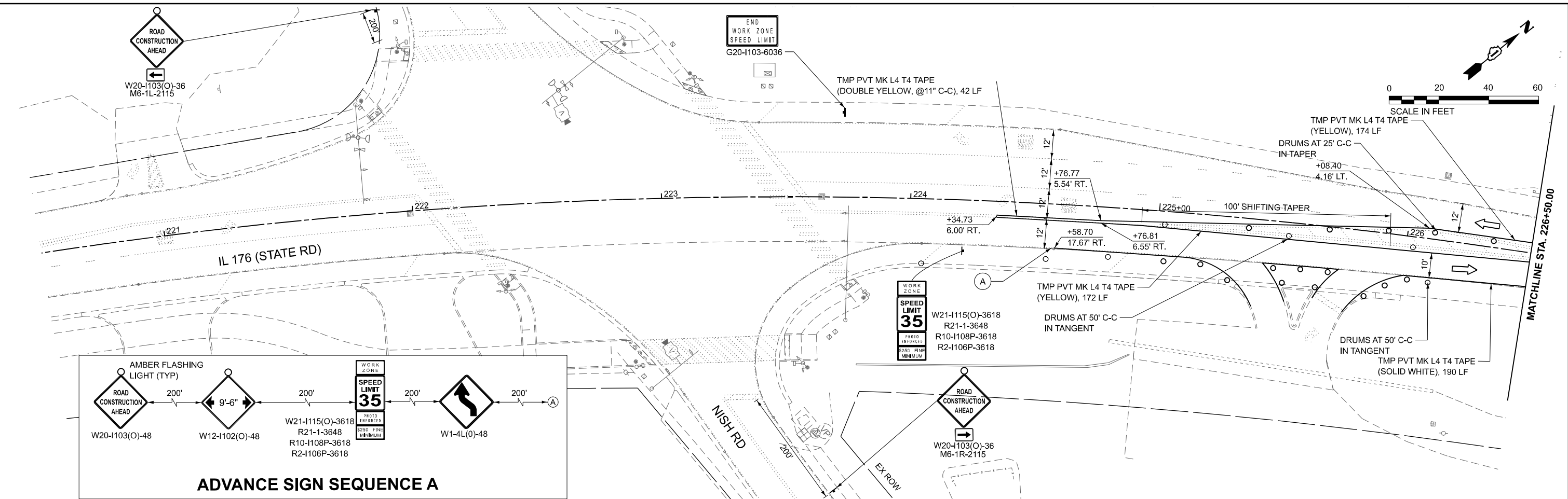
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
IL 176 OVER FOX RIVER

SCALE: 1"=5' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	7
CONTRACT NO. 62T07			ILLINOIS FED. AID PROJECT	

MODEL: MOT-SHT-STAGE-1-01
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LEGEND

- TEMPORARY CONCRETE BARRIER
- DIRECTION OF TRAFFIC
- SIGN
- TYPE III BARRICADE
- PLACED IN PREVIOUS STAGE
- WORKZONE
- IMPACT ATTENUATORS
- DRUM @
50' C-C IN TANGENTS,
25' C-C IN TAPERS,
10' C-C IN RADII

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PLOT DATE = 8/5/2024	CHECKED - JAL	REVISED -
	DATE - 04/05/2024	REVISED -

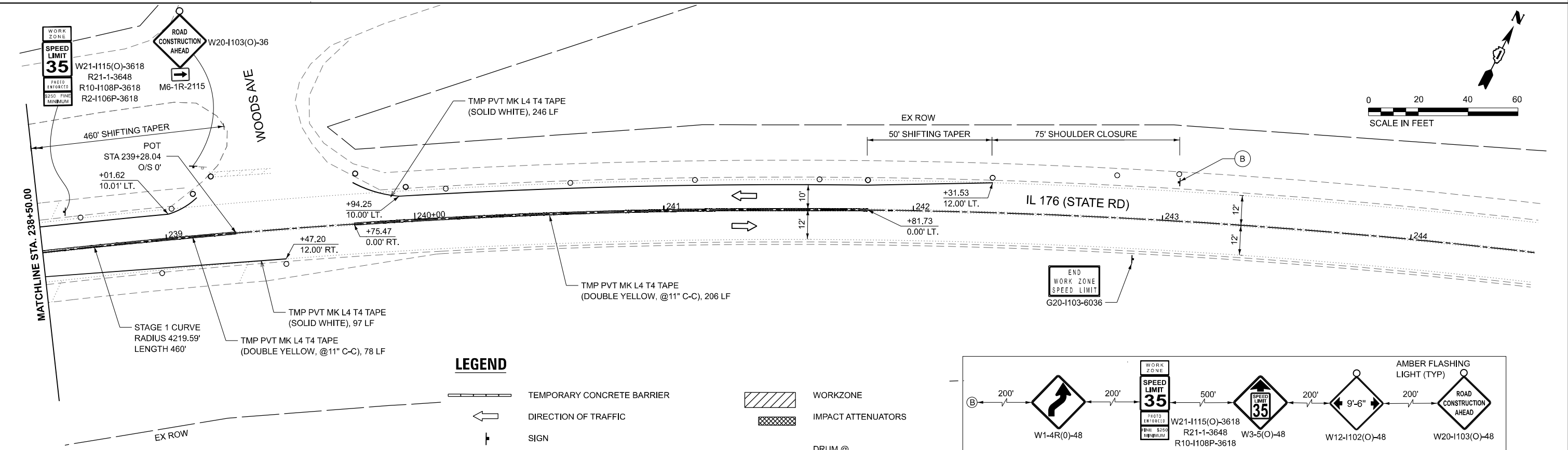
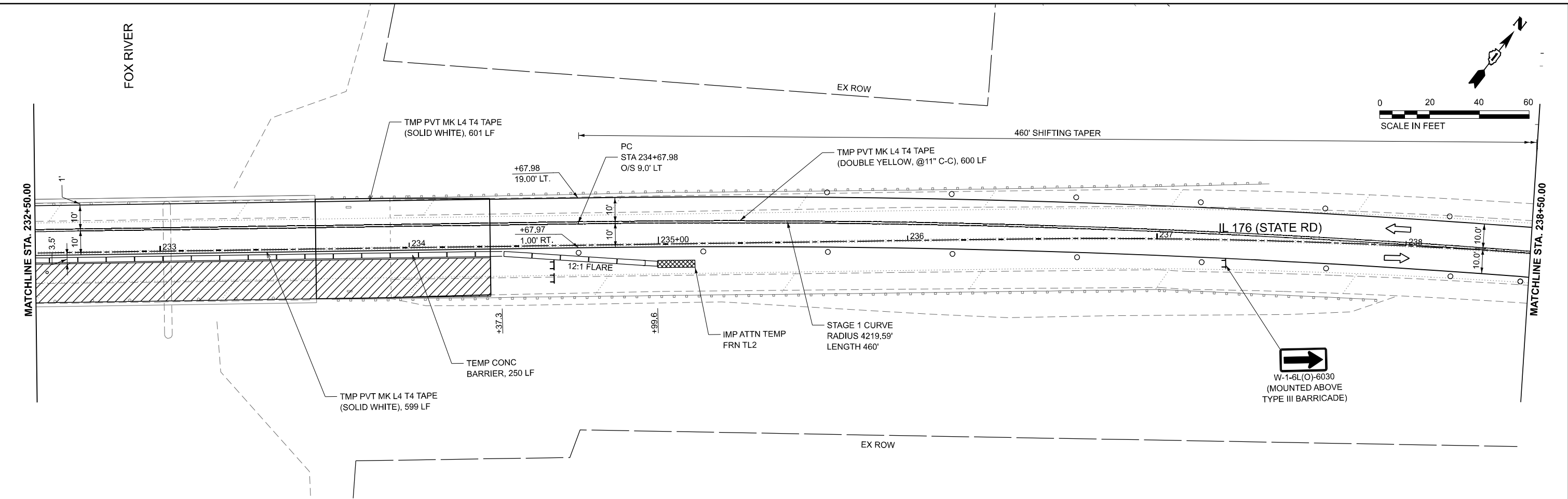
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED TRAFFIC CONTROL PLAN - STAGE 1
 IL 176 OVER FOX RIVER**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 220+50.00 TO STA. 232+50.00

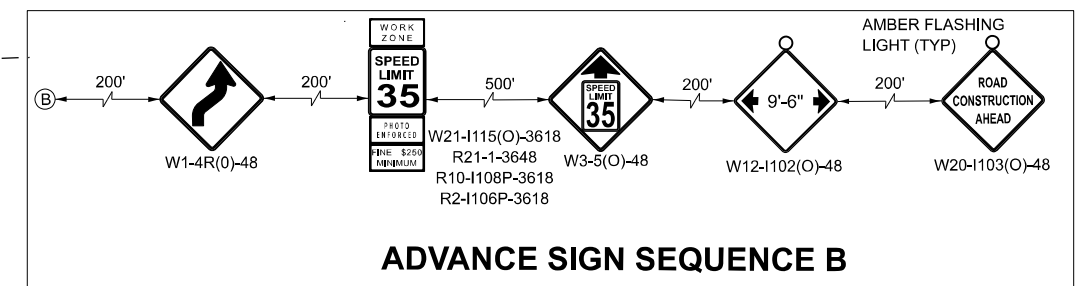
F.A.P. RTE. 335	SECTION FAP 0335 22 BJ	COUNTY MCHENRY	TOTAL SHEETS 50	SHEET NO. 8
CONTRACT NO. 62T07			ILLINOIS FED. AID PROJECT	

MODEL: MOT-SHT-STAGE-1-02
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LEGEND

- TEMPORARY CONCRETE BARRIER
- DIRECTION OF TRAFFIC
- SIGN
- TYPE III BARRICADE
- PLACED IN PREVIOUS STAGE
- WORKZONE
- IMPACT ATTENUATORS
- DRUM @ 50' C-C IN TANGENTS, 25' C-C IN TAPERS, 10' C-C IN RADII



ADVANCE SIGN SEQUENCE B

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PLOT DATE = 8/5/2024	CHECKED - JAL	REVISED -
	DATE - 04/05/2024	REVISED -

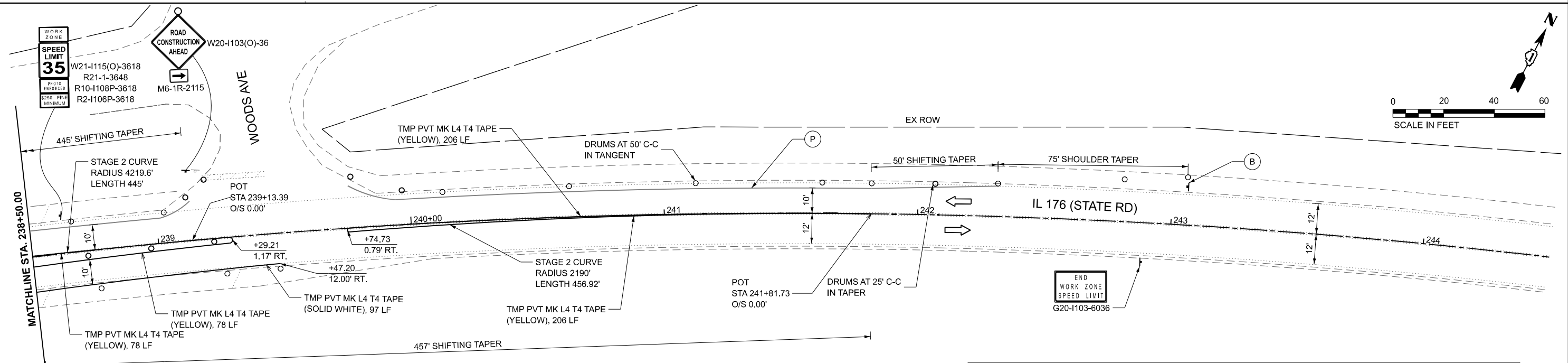
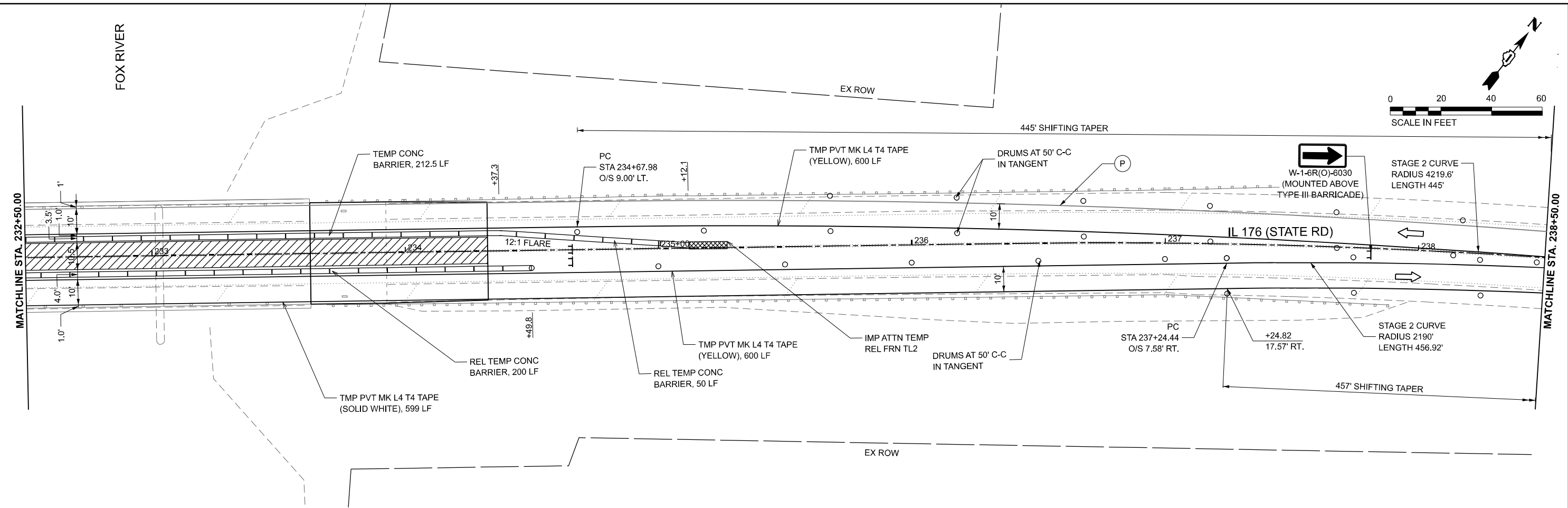
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED TRAFFIC CONTROL PLAN - STAGE 1
 IL 176 OVER FOX RIVER**

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 232+50.00 TO STA. 244+50.00

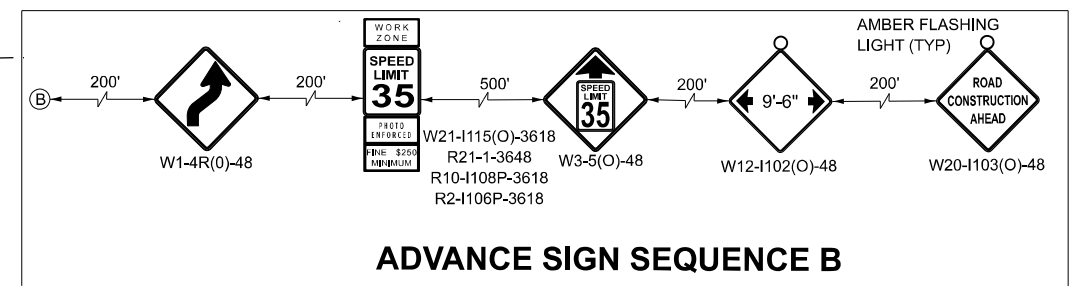
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CONTRACT NO. 62T07			ILLINOIS FED. AID PROJECT	

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LEGEND

- TEMPORARY CONCRETE BARRIER
- DIRECTION OF TRAFFIC
- SIGN
- TYPE III BARRICADE
- PLACED IN PREVIOUS STAGE
- WORKZONE
- IMPACT ATTENUATORS
- DRUM @ 50' C-C IN TANGENTS, 25' C-C IN TAPERS, 10' C-C IN RADII



ADVANCE SIGN SEQUENCE B

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PLOT DATE = 8/5/2024	CHECKED - JAL	REVISED -
	DATE - 04/05/2024	REVISED -

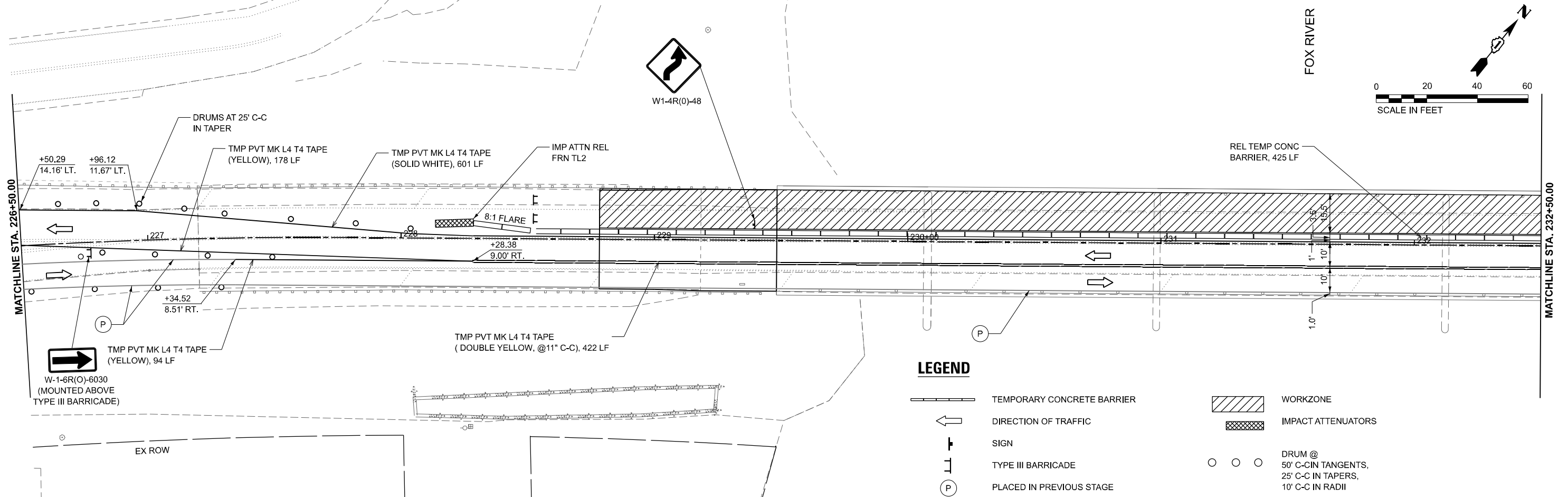
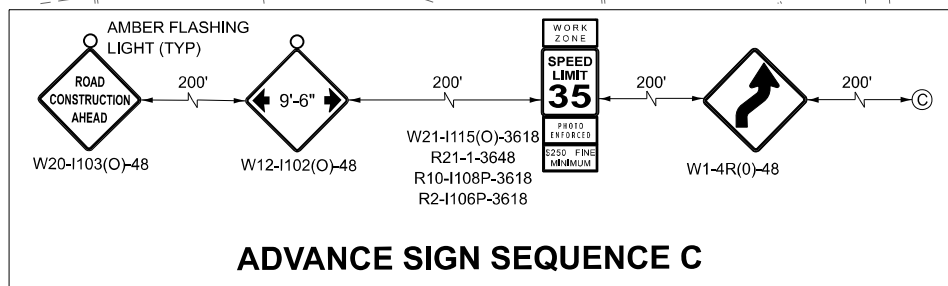
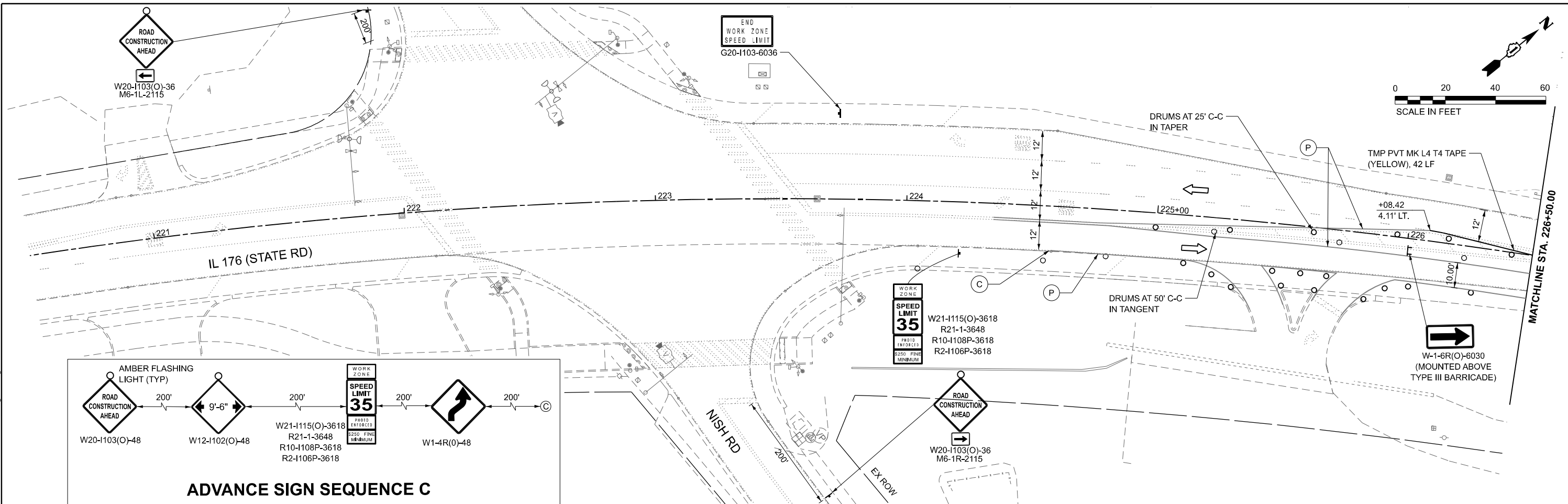
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED TRAFFIC CONTROL PLAN - STAGE 2
IL 176 OVER FOX RIVER

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 232+50.00 TO STA. 244+50.00

F.A.P. RTE. 335	SECTION FAP 0335 22 BJ	COUNTY MCHENRY	TOTAL SHEETS 50	SHEET NO. 11
CONTRACT NO. 62T07			ILLINOIS FED. AID PROJECT	

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LEGEND

- TEMPORARY CONCRETE BARRIER
- ← DIRECTION OF TRAFFIC
- ⊥ SIGN
- ⊥ TYPE III BARRICADE
- ⊙ PLACED IN PREVIOUS STAGE
- ▨ WORKZONE
- ▩ IMPACT ATTENUATORS
- ○ ○ DRUM @ 50' C-C IN TANGENTS, 25' C-C IN TAPERS, 10' C-C IN RADII

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PLOT SCALE = 0.16666633' / in.	DRAWN - MFK	REVISED -
PLOT DATE = 8/5/2024	CHECKED - JAL	REVISED -
	DATE - 04/05/2024	REVISED -

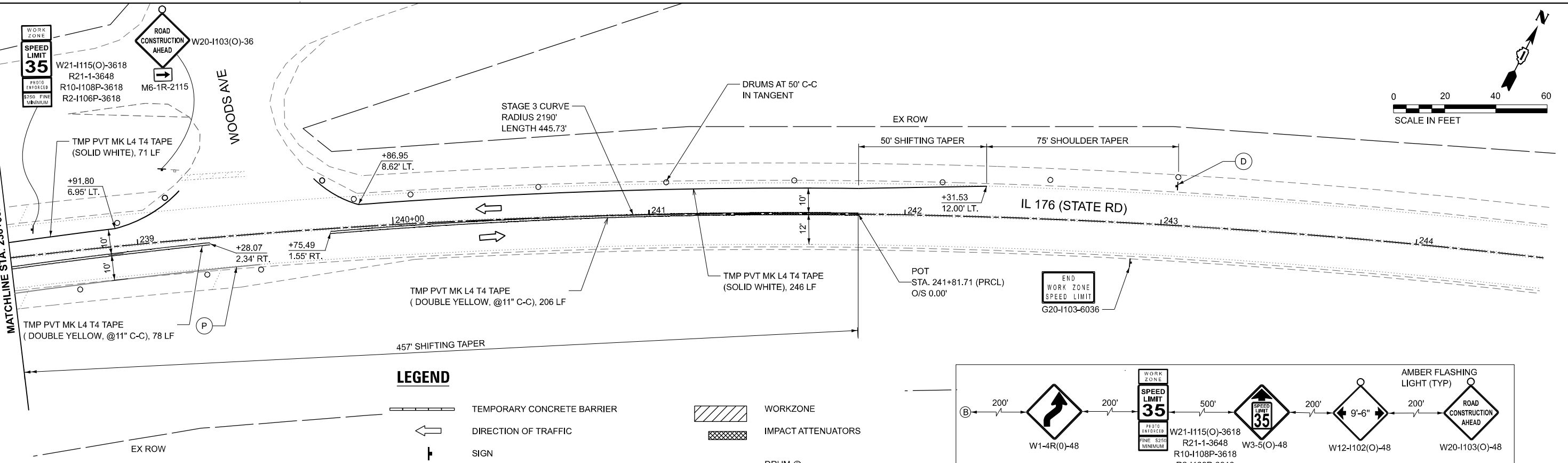
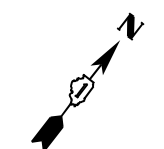
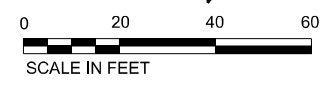
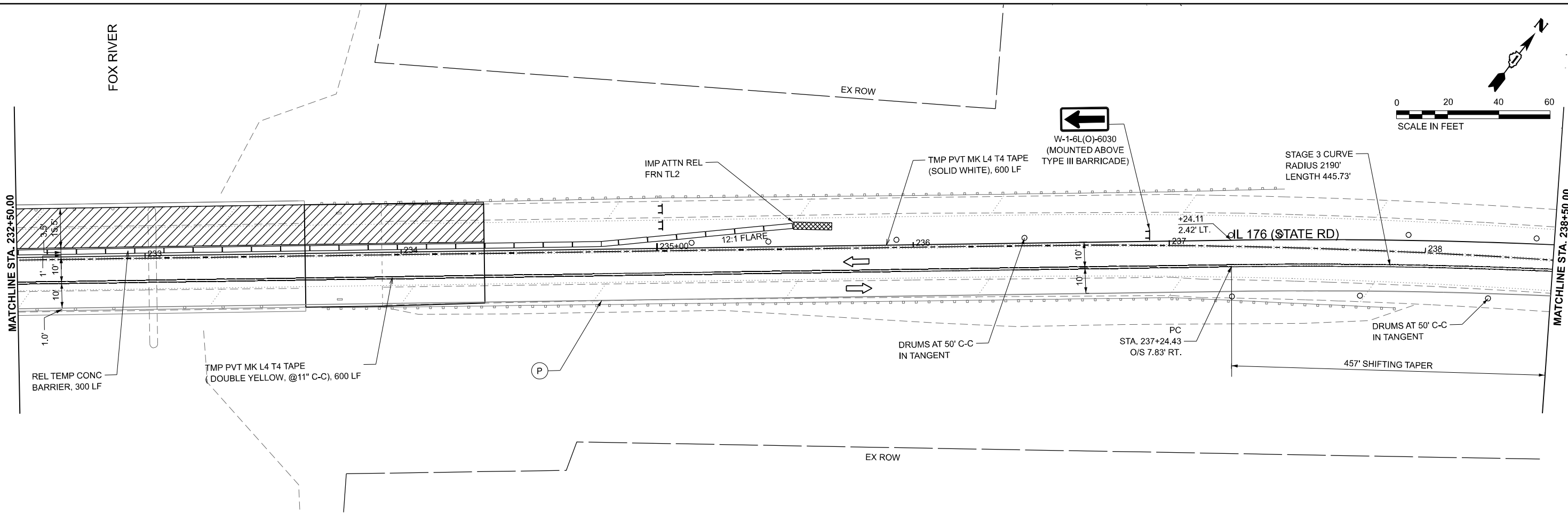
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED TRAFFIC CONTROL PLAN - STAGE 3
 IL 176 OVER FOX RIVER**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 220+50.00 TO STA. 232+50.00

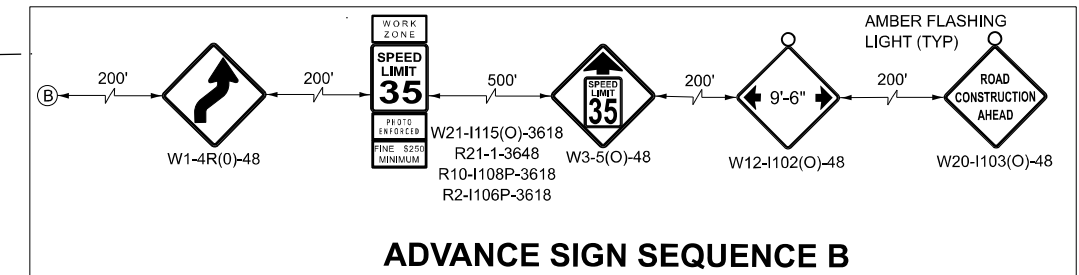
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CONTRACT NO. 62T07			ILLINOIS FED. AID PROJECT	

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LEGEND

- TEMPORARY CONCRETE BARRIER
- DIRECTION OF TRAFFIC
- SIGN
- TYPE III BARRICADE
- PLACED IN PREVIOUS STAGE
- WORKZONE
- IMPACT ATTENUATORS
- DRUM @ 50' C-C IN TANGENTS, 25' C-C IN TAPERS, 10' C-C IN RADI



ADVANCE SIGN SEQUENCE B

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USER NAME = Zach.Tanner	DESIGNED - ZJT	REVISED -
PLOT SCALE = 0.16666833' / in.	DRAWN - MFK	REVISED -
PLOT DATE = 8/5/2024	CHECKED - JAL	REVISED -
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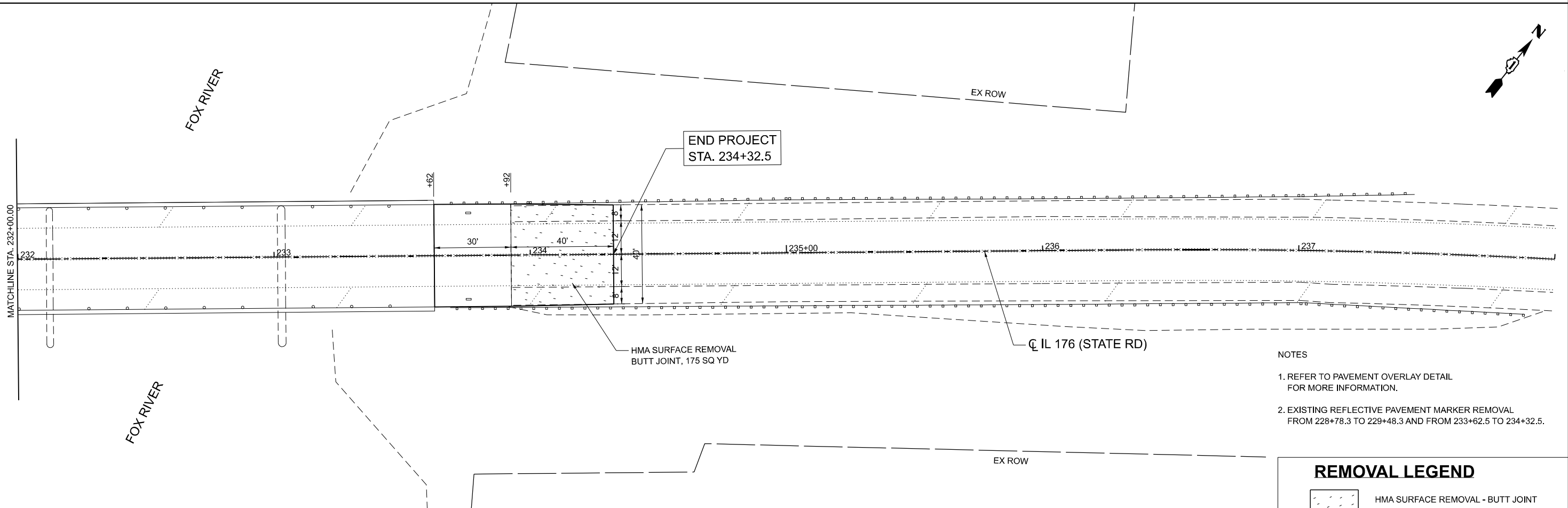
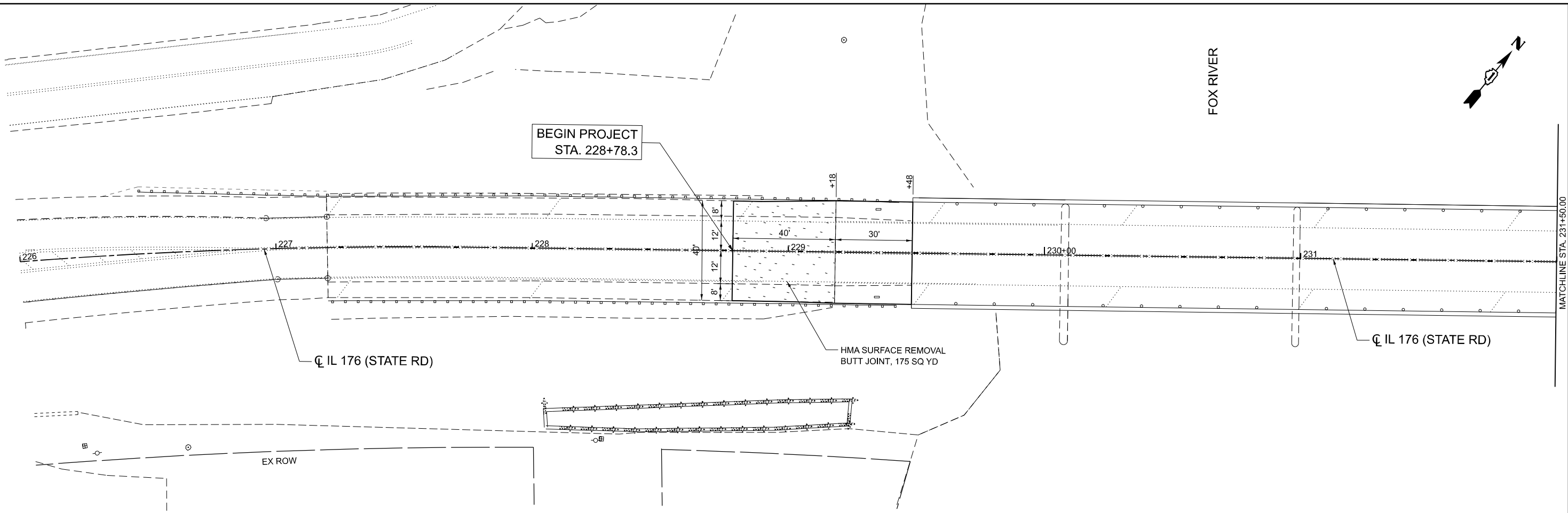
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUGGESTED TRAFFIC CONTROL PLAN - STAGE 3
 IL 176 OVER FOX RIVER**

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 232+50.00 TO STA. 244+50.00

F.A.P. RTE. 335	SECTION FAP 0335 22 BJ	COUNTY MCHENRY	TOTAL SHEETS 50	SHEET NO. 13
CONTRACT NO. 62T07			ILLINOIS FED. AID PROJECT	

MODEL: ROADWAY REMOVAL - Plan 1 (Sheet)
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- NOTES**
- REFER TO PAVEMENT OVERLAY DETAIL FOR MORE INFORMATION.
 - EXISTING REFLECTIVE PAVEMENT MARKER REMOVAL FROM 228+78.3 TO 229+48.3 AND FROM 233+62.5 TO 234+32.5.

REMOVAL LEGEND

HMA SURFACE REMOVAL - BUTT JOINT

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PLOT DATE = 6/14/2024	CHECKED - JAL	REVISED -
	DATE - 04/05/2024	REVISED -

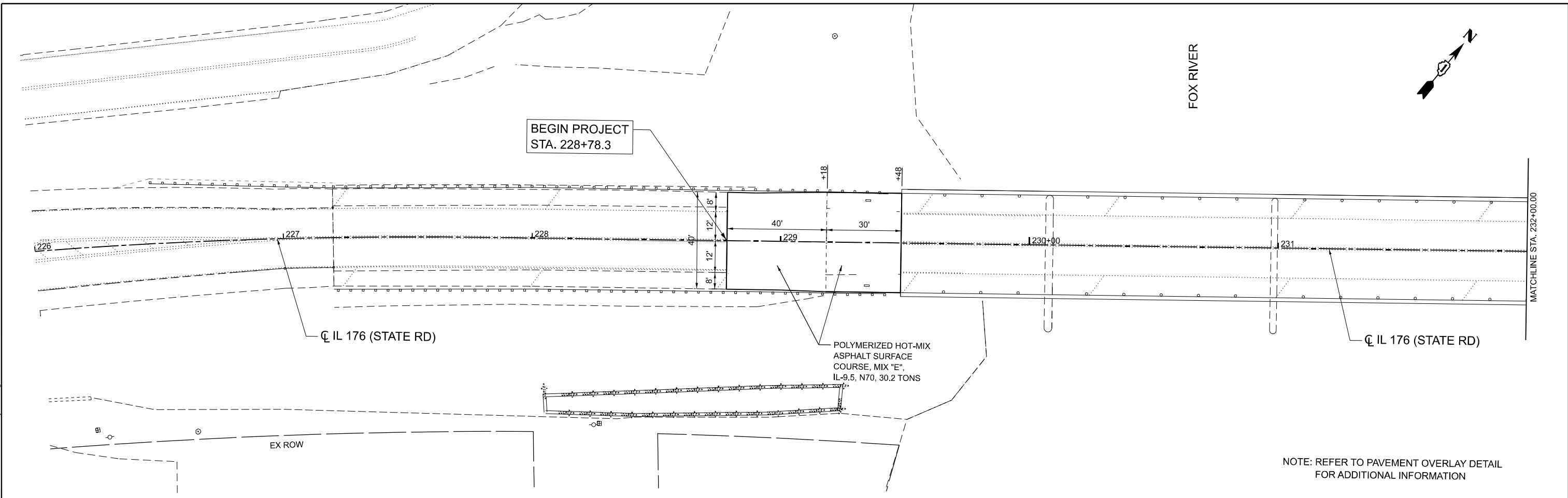
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY REMOVAL PLAN
 IL 176 OVER FOX RIVER MAINTENANCE PLANS**

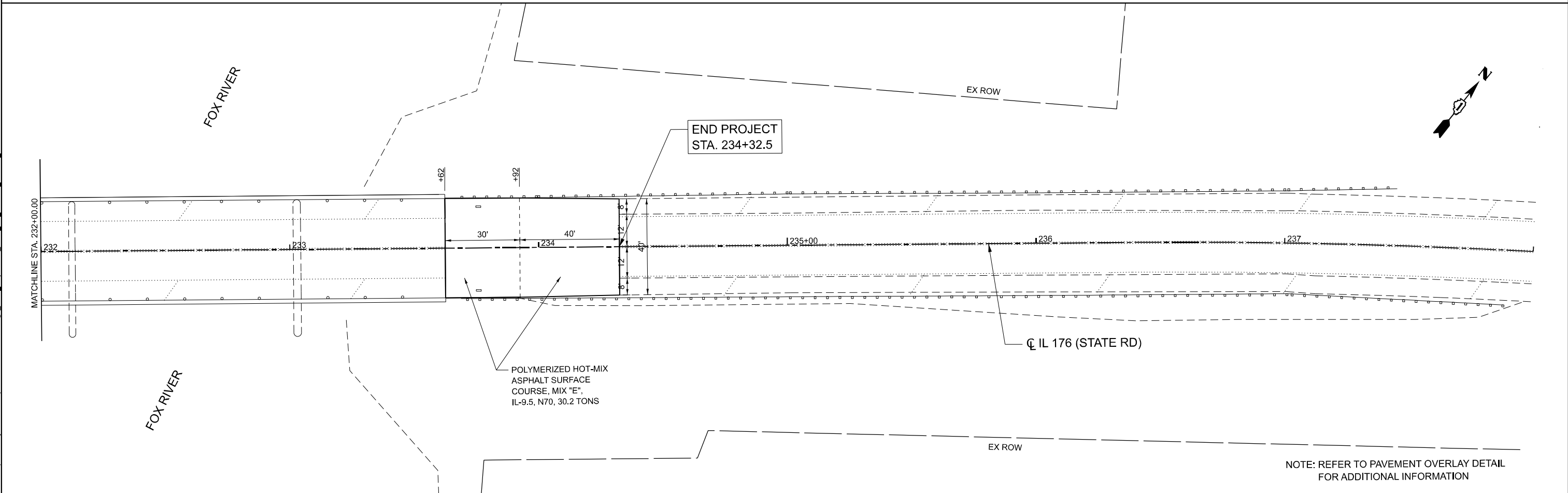
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 226+00.00 TO STA. 238+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	14
CONTRACT NO. 62T07			ILLINOIS FED. AID PROJECT	

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NOTE: REFER TO PAVEMENT OVERLAY DETAIL FOR ADDITIONAL INFORMATION



NOTE: REFER TO PAVEMENT OVERLAY DETAIL FOR ADDITIONAL INFORMATION

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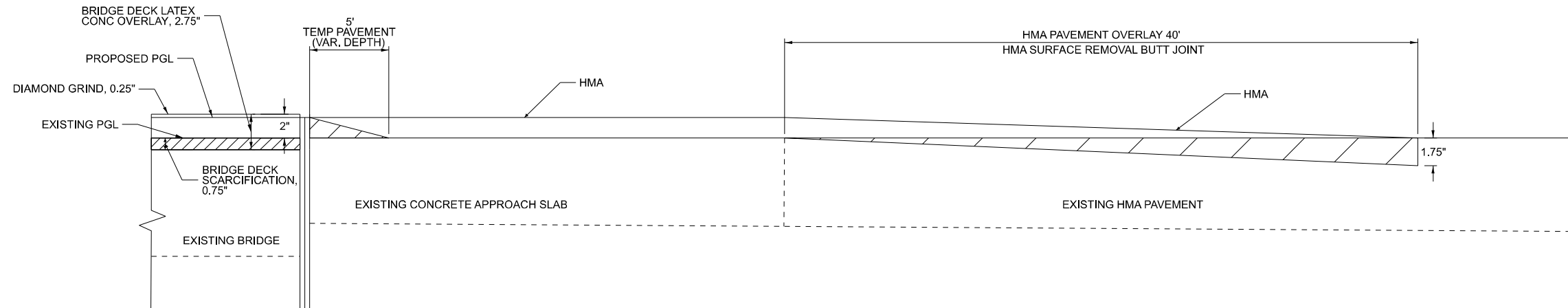
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PLOT DATE = 6/14/2024	DATE - 04/05/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED ROADWAY PLAN
 IL 176 OVER FOX RIVER MAINTENANCE PLANS**

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 226+00.00 TO STA. 238+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	15
CONTRACT NO. 62T07			ILLINOIS FED. AID PROJECT	



PAVEMENT OVERLAY DETAIL

STA 228+78.33 TO STA 229+48.33
 STA 233+62.50 TO STA 234+32.50

MODEL: Unlabeled-1 [Sheet]
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 Phone: (312) 707-8770 • MBAKERINTL.COM

USER NAME = Zach.Tanner	DESIGNED - ZJT	REVISED -
	DRAWN - MFK	REVISED -
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PLOT DATE = 6/14/2024	DATE - 04/05/2024	REVISED -

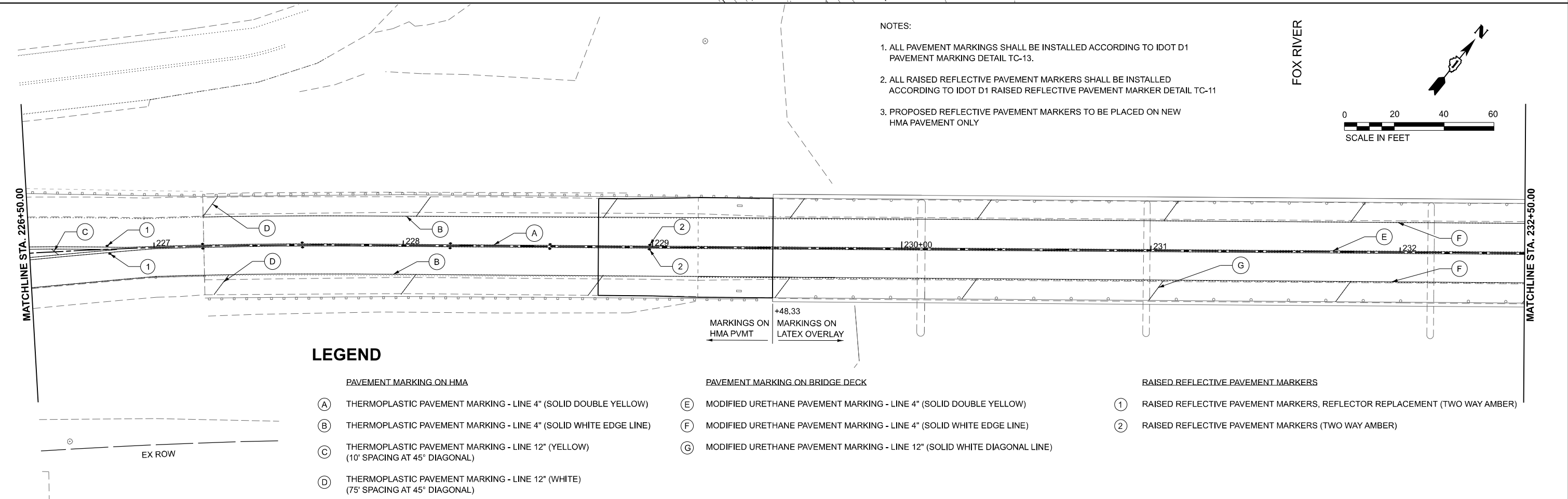
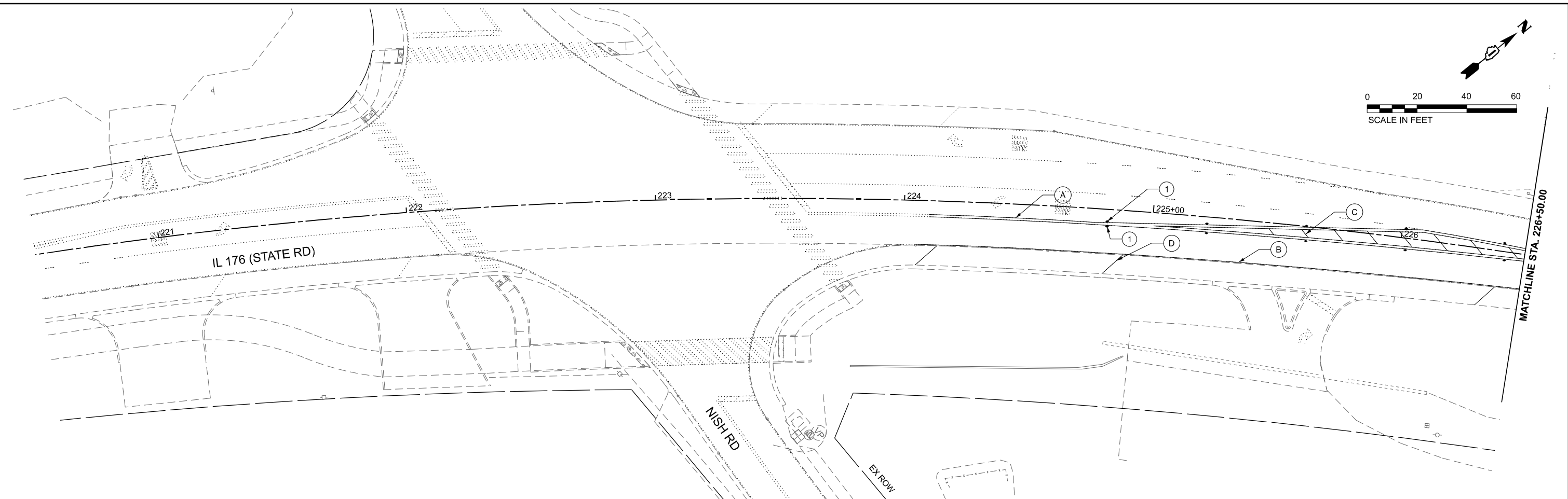
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT OVERLAY DETAIL
 IL 176 OVER FOX RIVER**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	16
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

MODEL: D162T07-PMK-02
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NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT D1 PAVEMENT MARKING DETAIL TC-13.
2. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO IDOT D1 RAISED REFLECTIVE PAVEMENT MARKER DETAIL TC-11
3. PROPOSED REFLECTIVE PAVEMENT MARKERS TO BE PLACED ON NEW HMA PAVEMENT ONLY

LEGEND

- | | | |
|--|--|---|
| <p>PAVEMENT MARKING ON HMA</p> <ul style="list-style-type: none"> (A) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID DOUBLE YELLOW) (B) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE EDGE LINE) (C) THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) (10' SPACING AT 45° DIAGONAL) (D) THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) (75' SPACING AT 45° DIAGONAL) | <p>PAVEMENT MARKING ON BRIDGE DECK</p> <ul style="list-style-type: none"> (E) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID DOUBLE YELLOW) (F) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID WHITE EDGE LINE) (G) MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (SOLID WHITE DIAGONAL LINE) | <p>RAISED REFLECTIVE PAVEMENT MARKERS</p> <ul style="list-style-type: none"> (1) RAISED REFLECTIVE PAVEMENT MARKERS, REFLECTOR REPLACEMENT (TWO WAY AMBER) (2) RAISED REFLECTIVE PAVEMENT MARKERS (TWO WAY AMBER) |
|--|--|---|

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USER NAME = Zach.Tanner	DESIGNED - ZJT	REVISED -
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PLOT DATE = 6/14/2024	CHECKED - JAL	REVISED -
	DATE - 04/05/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

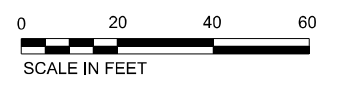
**PAVEMENT MARKING PLAN
 IL 176 OVER FOX RIVER**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 220+50.00 TO STA. 232+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	17
CONTRACT NO. 62T07			ILLINOIS FED. AID PROJECT	

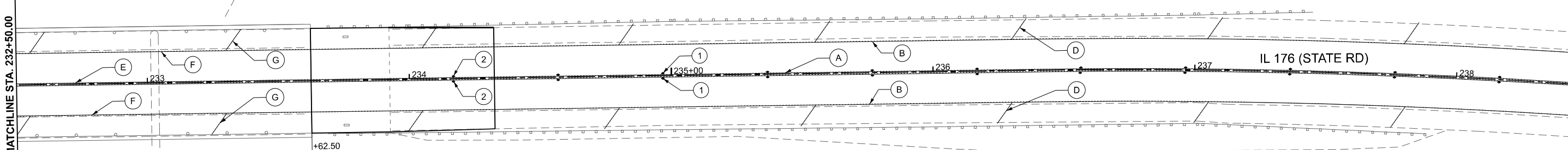
FOX RIVER

EX ROW



MATCHLINE STA. 232+50.00

MATCHLINE STA. 238+50.00



NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT D1 PAVEMENT MARKING DETAIL TC-13.
2. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO IDOT D1 RAISED REFLECTIVE PAVEMENT MARKER DETAIL TC-11
3. PROPOSED REFLECTIVE PAVEMENT MARKERS TO BE PLACED ON NEW HMA PAVEMENT ONLY

EX ROW

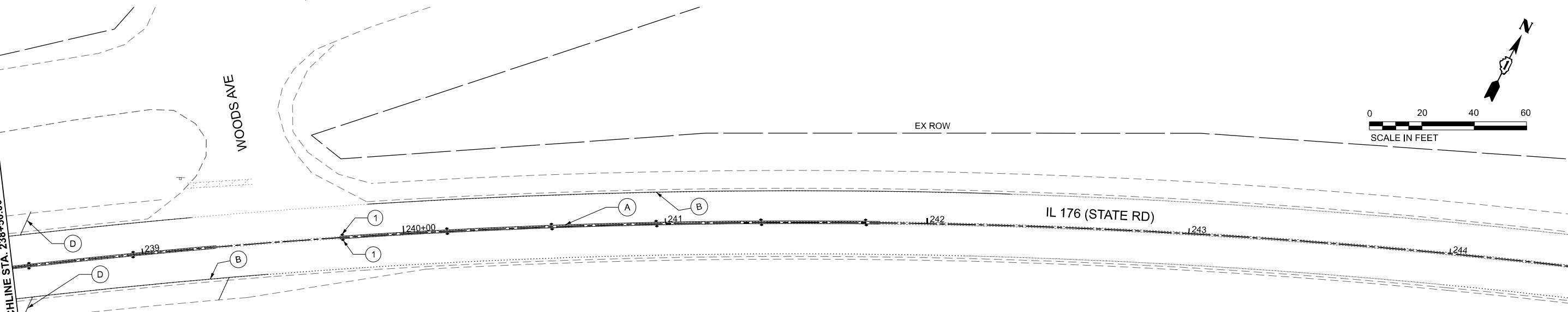
WOODS AVE

EX ROW



MATCHLINE STA. 238+50.00

MATCHLINE STA. 244+50.00



LEGEND

- | | | |
|---|---|--|
| <p>PAVEMENT MARKING ON HMA</p> <ul style="list-style-type: none"> (A) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID DOUBLE YELLOW) (B) THERMOPLASTIC PAVEMENT MARKING - LINE 4" (SOLID WHITE EDGE LINE) (C) THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW) (10' SPACING AT 45° DIAGONAL) (D) THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE) (75' SPACING AT 45° DIAGONAL) | <p>PAVEMENT MARKING ON BRIDGE DECK</p> <ul style="list-style-type: none"> (E) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID DOUBLE YELLOW) (F) MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (SOLID WHITE EDGE LINE) (G) MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (SOLID WHITE DIAGONAL LINE) | <p>RAISED REFLECTIVE PAVEMENT MARKERS</p> <ul style="list-style-type: none"> (1) RAISED REFLECTIVE PAVEMENT MARKERS, REFLECTOR REPLACEMENT (TWO WAY AMBER) (2) RAISED REFLECTIVE PAVEMENT MARKERS (TWO WAY AMBER) |
|---|---|--|

MODEL: D162T07-PNK-01
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PLOT DATE = 6/14/2024	CHECKED - JAL	REVISED -
	DATE - 04/05/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
IL 176 OVER FOX RIVER**

SCALE: 1"=20' SHEET 2 OF 2 SHEETS STA. 232+50.00 TO STA. 244+50.00

F.A.P. RTE. 335	SECTION FAP 0335 22 BJ	COUNTY MCHENRY	TOTAL SHEETS 50	SHEET NO. 18
CONTRACT NO. 62T07			ILLINOIS FED. AID PROJECT	

Existing Structure: S.N. 056-0038, originally built in 1954 Section 146-BR & repaired in 1974, is a 5-span steel girder bridge supported by stem-type piers on timber piles and stub abutments on concrete piles. In 1994 Section 146-B-R-1, the superstructure was completely replaced & widened with a new composite reinforced concrete deck & steel girders, the abutments were completely replaced, and the piers were widened on concrete piles. The existing back to back abutment length is 414'-2" and the out-to-out width is 43'-2".

Traffic to be maintained utilizing stage construction.

No salvage.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges

LOADING HS20-44

No allowance for future wearing surface

EXISTING DESIGN STRESSES

1954 CONSTRUCTION

$f_c = 800$ psi (Substructure)
 $f_s = 20,000$ psi (Reinforcement)

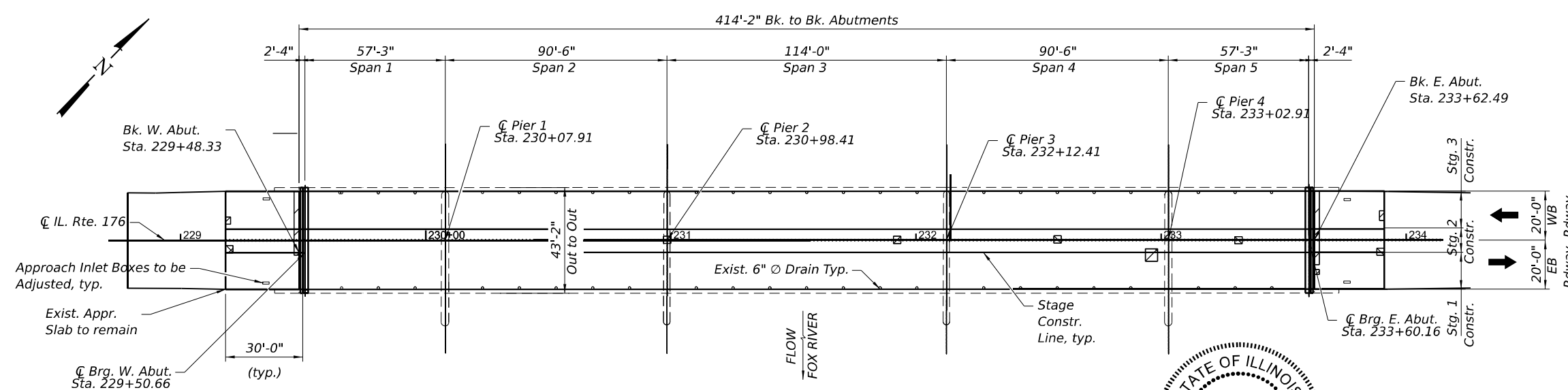
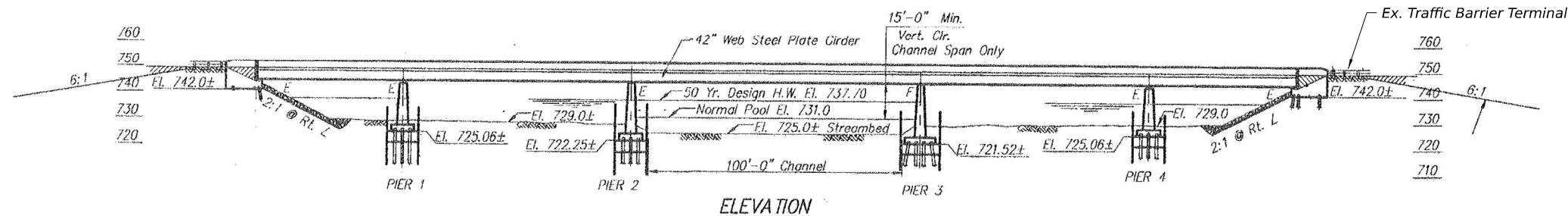
1994 CONSTRUCTION

$f_c = 3,500$ psi (Superstructure)
 $f_c = 3,500$ psi (Substructure)
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 50,000$ psi (M270 Gr. 50 Structural Steel Girders)
 $f_y = 36,000$ psi (M270 Gr. 36 Structural Steel)

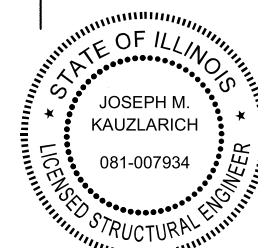
PROPOSED DESIGN STRESSES

FIELD UNITS

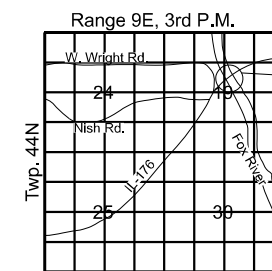
$f_c = 4,000$ psi (Superstructure)
 $f_y = 60,000$ psi (Reinforcement)



Note: Up to 1/4" to be ground off the concrete overlay on bridge deck.



Signed: *Joseph M. Kauzlarich*
 Joseph M. Kauzlarich
 Lic. No. 081-007934
 Expires 11-30-2024
 Date: 6/20/2024



LOCATION SKETCH

- SCOPE OF WORK**
1. Remove and replace existing expansion joints at both abutments with Preformed Strip Seals.
 2. Perform full depth repairs to bridge deck and partial and full depth repairs to approach slabs.
 3. Scarify 3/4" and install 2 3/4" Latex Concrete Overlay on bridge deck.
 4. Perform 1/4" Diamond Grinding and Longitudinal Grooving on new concrete overlay on bridge deck.
 5. Adjust approach slab drainage inlet boxes.
 6. Apply Concrete Sealer to top/inside surfaces of existing parapets.
 7. Install 1 3/4" Hot-Mix Asphalt (HMA) overlay on the approaches. Refer to Roadway Plans for quantities and details.
 8. Perform Structural Repair of Concrete at abutments and piers.
 9. Apply Protective Coat on the top surface of the deck overlay and on new concrete at the joint replacements.

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 176 OVER THE FOX RIVER
 F.A.P. RT. 335 - SEC. 0335 22 BJ
 McHENRY COUNTY
 STATION 231+55.41
 STRUCTURE NO. 056-0038

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 STRUCTURE NO. 056-0038
 SHEET 1 OF 24 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	McHENRY	50	19
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC - SP3 standards). 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 paid for according to Article 109.04 of the Standard Specifications.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 1/4 in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- Plan dimensions and details relative to the existing structure have been taken from 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 be applied to the top surface of the concrete deck overlay and on new concrete at the joint replacements.
- A film forming Concrete Sealer shall be applied to the top and inside surfaces of the existing parapets.
- The Contractor shall take appropriate measures to assure the Protective Coat is not applied to the floor drains.
- 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.

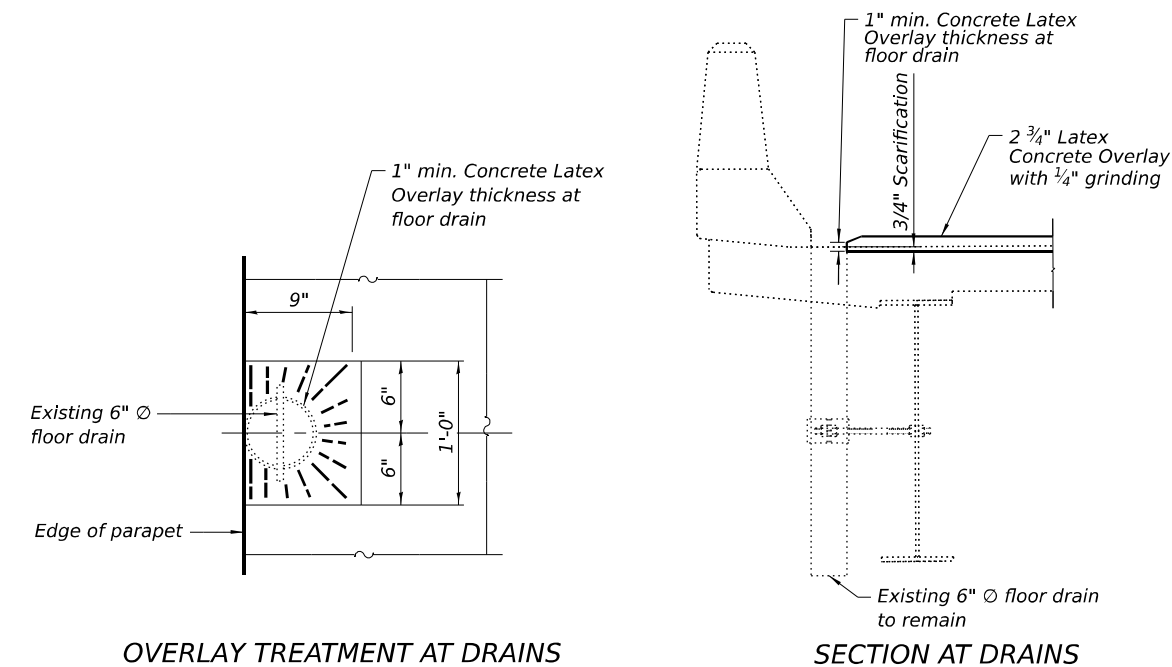
INDEX OF SHEETS

- General Plan & Elevation
- General Notes, Index of Sheets & Total Bill of Materials
- Staged Construction Details
- Staged Construction Details
- Temporary Concrete Barrier for Stage Construction
- Bridge Deck Repairs
- Bridge Deck Repairs
- Joint Reconstruction Details
- Joint Reconstruction Details
- Joint Reconstruction Details
- Approach Slab Repairs
- Preformed Joint Strip Seal Modified
- Bar Splicer Assembly Details
- Abutment Repair Details
- Pier Repair Details
- Existing Bridge Plans (For Reference Only)
- Existing Bridge Plans (For Reference Only)
- Existing Bridge Plans (For Reference Only)
- Existing Bridge Plans (For Reference Only)
- Existing Bridge Plans (For Reference Only)
- Existing Bridge Plans (For Reference Only)
- Existing Bridge Plans (For Reference Only)
- Existing Bridge Plans (For Reference Only)
- Existing Bridge Plans (For Reference Only)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu Yd	10.9	---	10.9
Concrete Superstructure	Cu Yd	12.4	---	12.4
Protective Coat	Sq Yd	1831	---	1831
Reinforcement Bars, Epoxy Coated	Pound	1760	---	1760
Bar Splicers	Each	48	---	48
Preformed Joint Strip Seal	Foot	84	---	84
Concrete Sealer	Sq Ft	3036	---	3036
Bridge Deck Grooving (Longitudinal)	Sq Yd	1101	---	1101
Approach Slab Repair (Full Depth)	Sq Yd	2	---	2
Approach Slab Repair (Partial Depth)	Sq Yd	16	---	16
Bridge Deck Latex Concrete Overlay, 2 3/4 Inches	Sq Yd	1808	---	1808
Bridge Deck Scarification 3/4"	Sq Yd	1808	---	1808
Structural Repair Of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq Ft	---	82	82
Structural Repair Of Concrete (Depth Greater Than 5 Inches)	Sq Ft	---	33	33
Deck Slab Repair (Full Depth, Type II)	Sq Yd	5	---	5
Diamond Grinding (Bridge Section)	Sq Yd	1651	---	1651
Inlet Boxes To Be Reconstructed (Special)	Each	4	---	4

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OVERLAY TREATMENT AT DRAINS
(46 drains total)
(Cost included with Bridge Deck Latex Concrete Overlay)

SECTION AT DRAINS

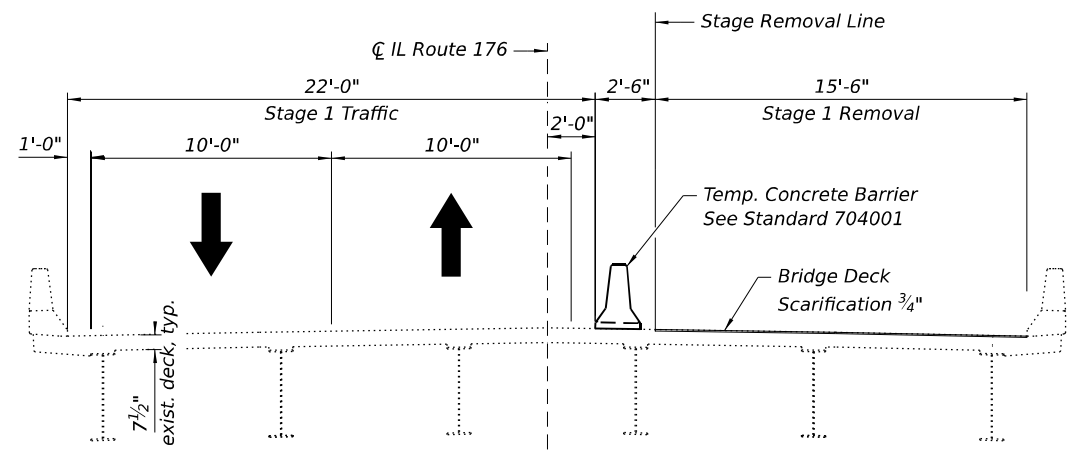


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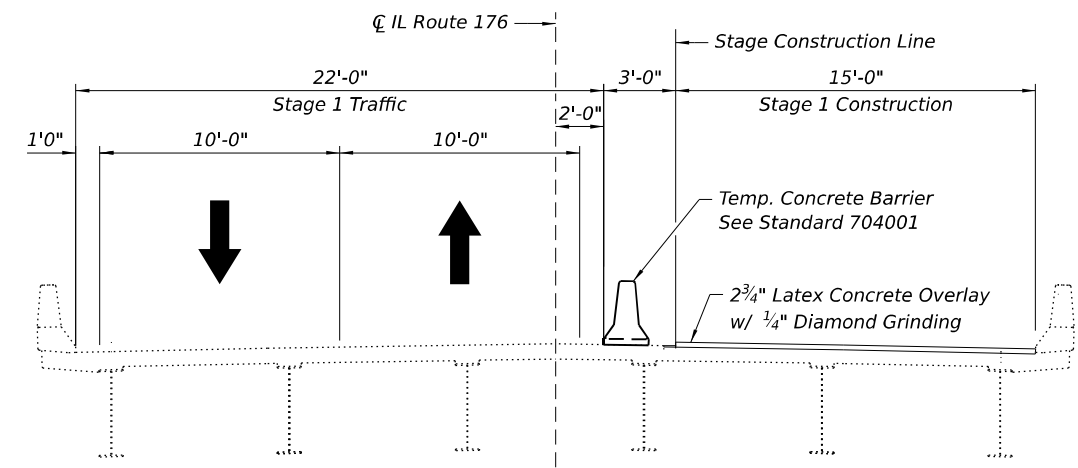
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIALS
STRUCTURE NO. 056-0038

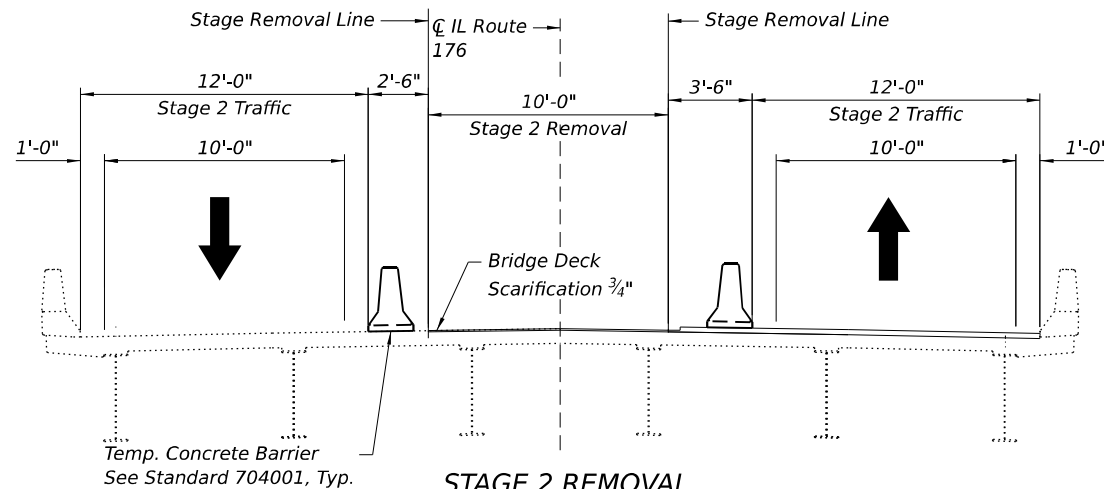
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335	FAP 0335 22 BJ	McHENRY	50	20
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				



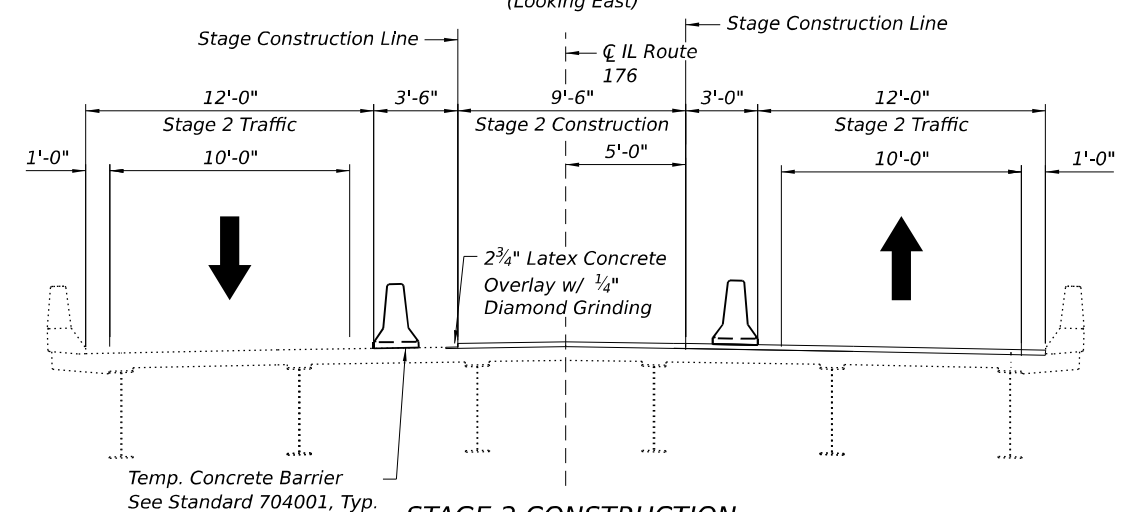
STAGE 1 REMOVAL
(Looking East)



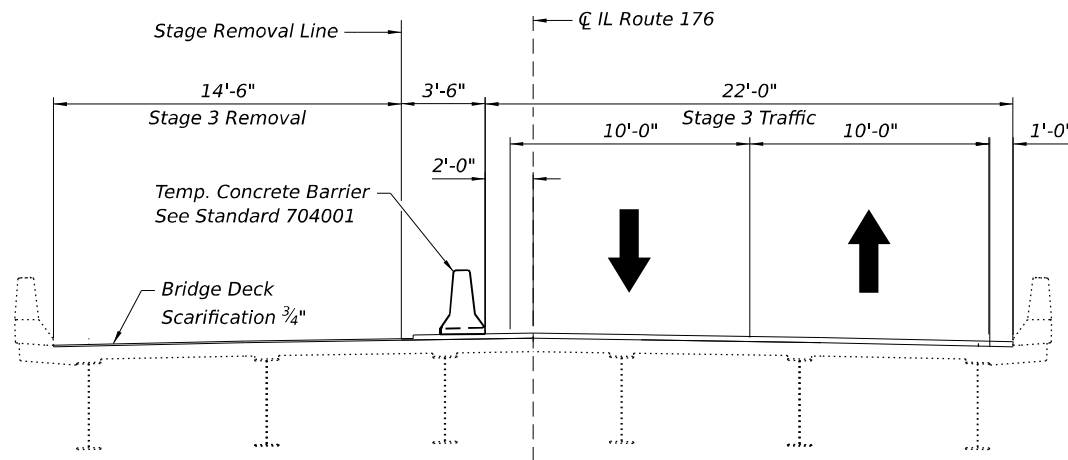
STAGE 1 CONSTRUCTION
(Looking East)



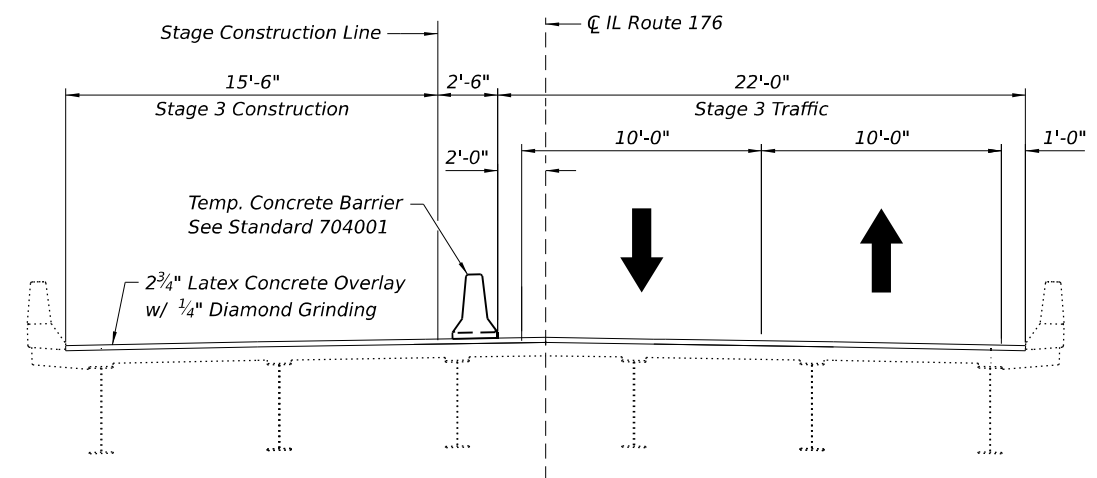
STAGE 2 REMOVAL
(Looking East)



STAGE 2 CONSTRUCTION
(Looking East)



STAGE 3 REMOVAL
(Looking East)



STAGE 3 CONSTRUCTION
(Looking East)

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INTERNATIONAL

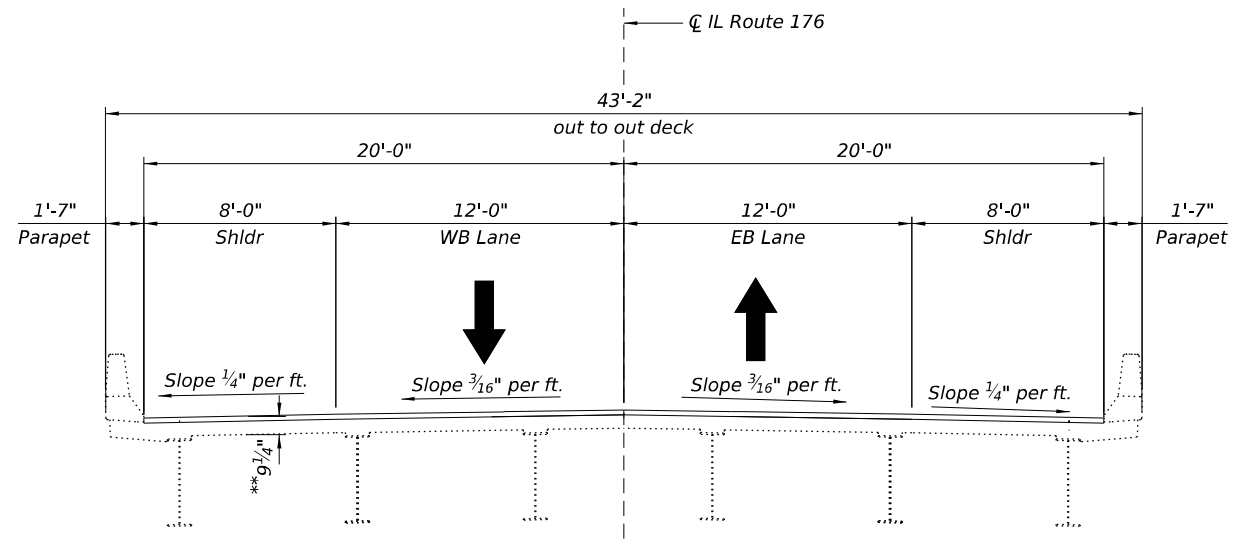
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGED CONSTRUCTION DETAILS
STRUCTURE NO. 056-0038

SHEET 3 OF 24 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	McHENRY	50	21
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				



FINAL CROSS SECTION
(Looking East)
**After 1/4" diamond grinding

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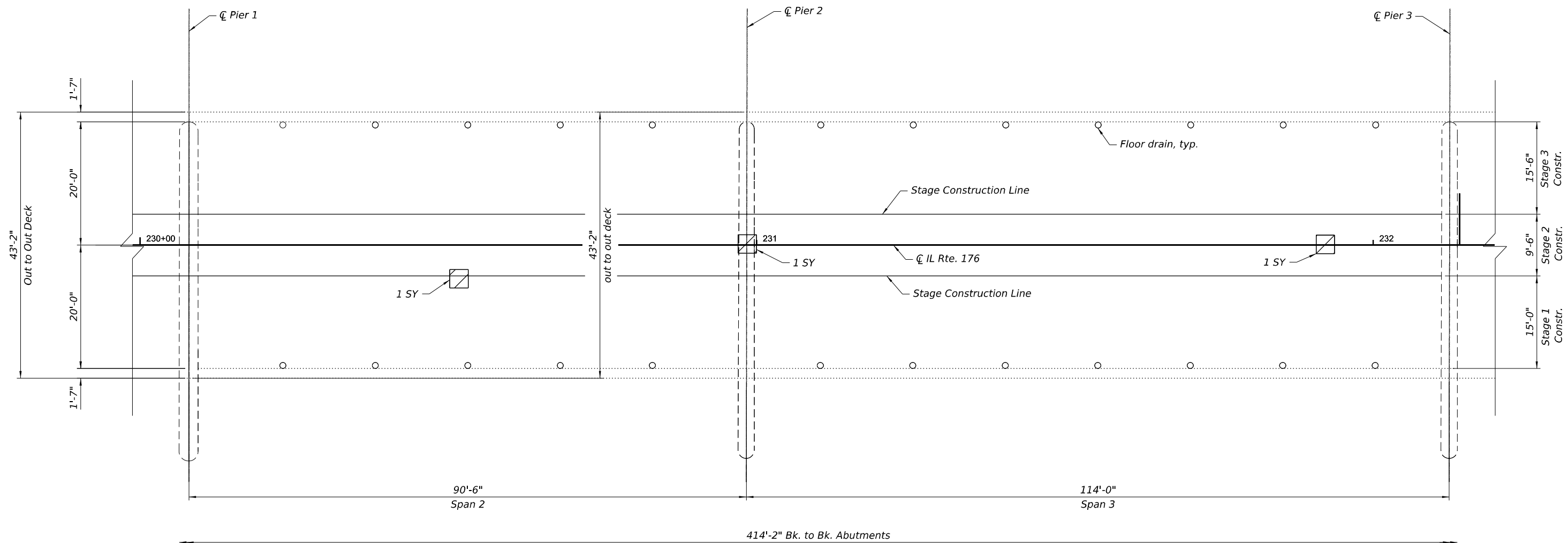
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGED CONSTRUCTION DETAILS
STRUCTURE NO. 056-0038**

SHEET 4 OF 24 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	McHENRY	50	22
			CONTRACT NO. 62T07	
		ILLINOIS	FED. AID PROJECT	

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



DECK REPAIR PARTIAL PLAN

Notes:

1. For notes and bill of material for deck repairs, see Sheet 7 of 24.
2. Span 1 is not shown due to no indications of needing repairs.

LEGEND

-  Deck Slab Repair (Partial)
(For Information Only)
-  Deck Slab Repair (Full Depth)

Michael Baker
INTERNATIONAL

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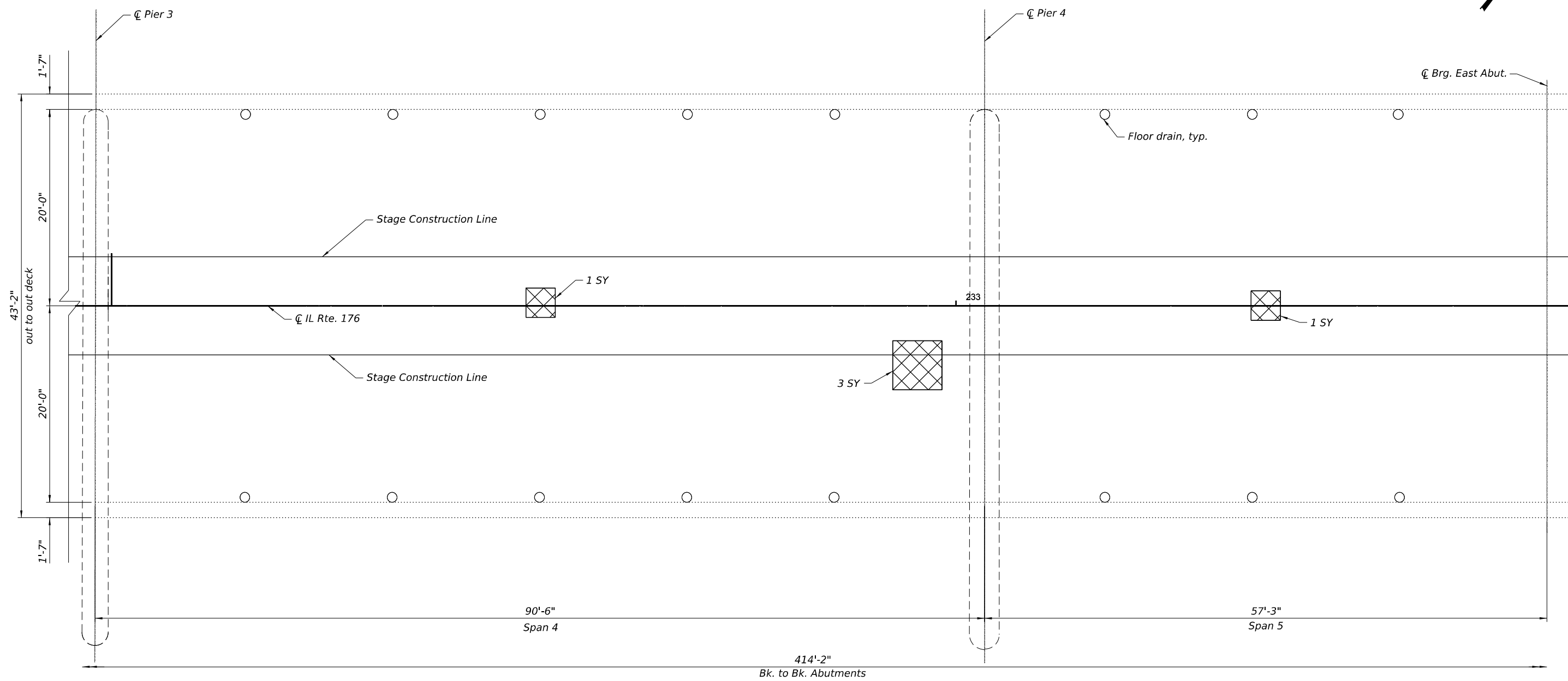
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE DECK REPAIRS
STRUCTURE NO. 056-0038

SHEET 6 OF 24 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	McHENRY	50	24
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

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DECK REPAIR PARTIAL PLAN

Notes:

Deck Slab Repair (Partial) locations and quantities are shown for information only and will not be measured for payment but shall be included in the cost of Bridge Deck Latex Concrete Overlay. See special provision for Bridge Deck Latex Concrete Overlay

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5

LEGEND

- Deck Slab Repair (Partial) (For Information Only)
- Deck Slab Repair (Full Depth)



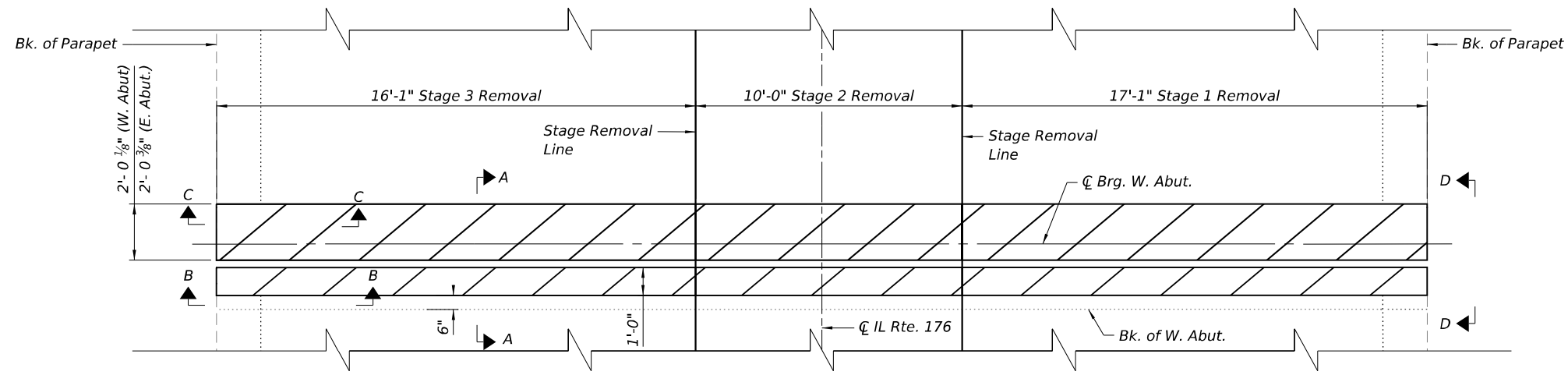
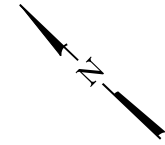
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE DECK REPAIRS
 STRUCTURE NO. 056-0038**

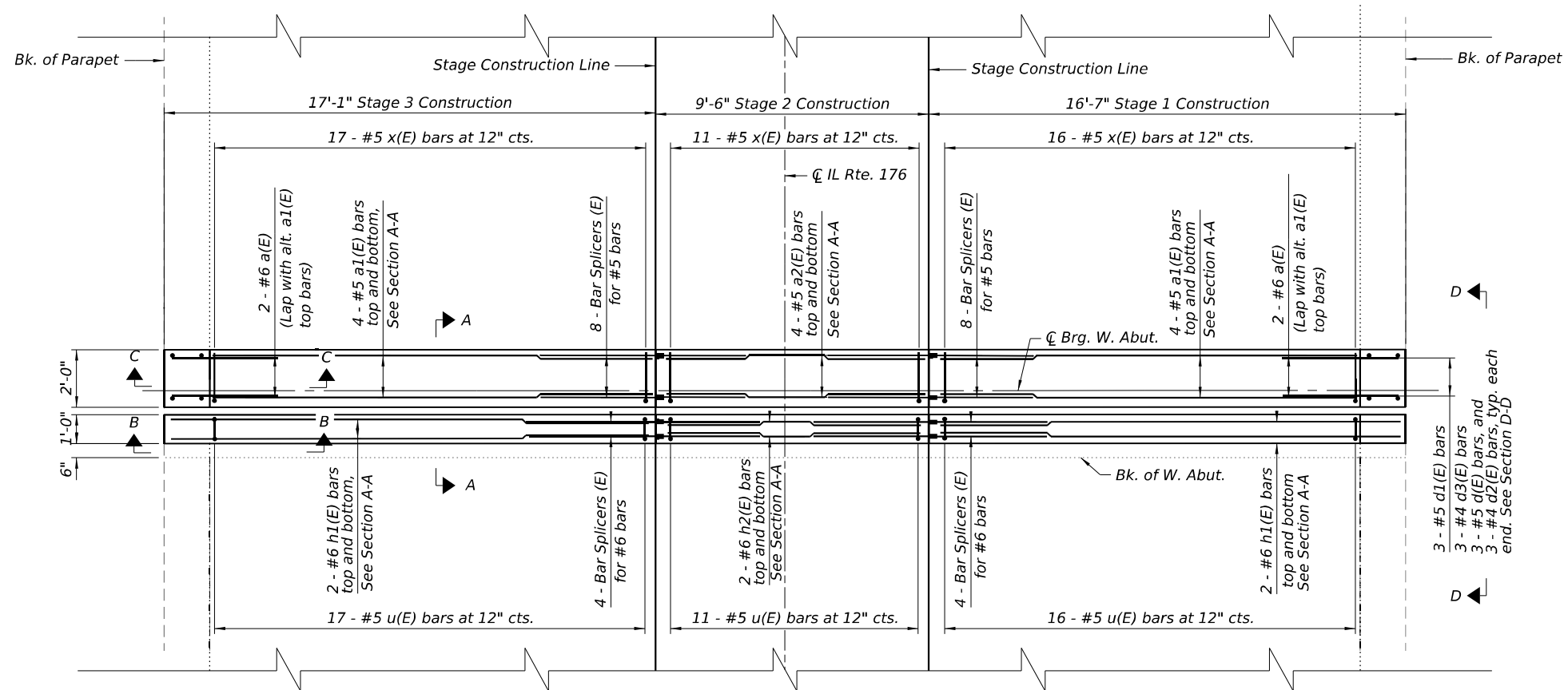
SHEET 7 OF 24 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	McHENRY	50	25
CONTRACT NO. 62T07				
		ILLINOIS	FED. AID PROJECT	



JOINT REMOVAL PLAN

(Joint removal at West Abutment shown. East Abutment similar.)



JOINT RECONSTRUCTION PLAN

(Joint reconstruction at West Abutment shown. East Abutment similar.)

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PLOT DATE =	CHECKED - TJJ	REVISED -

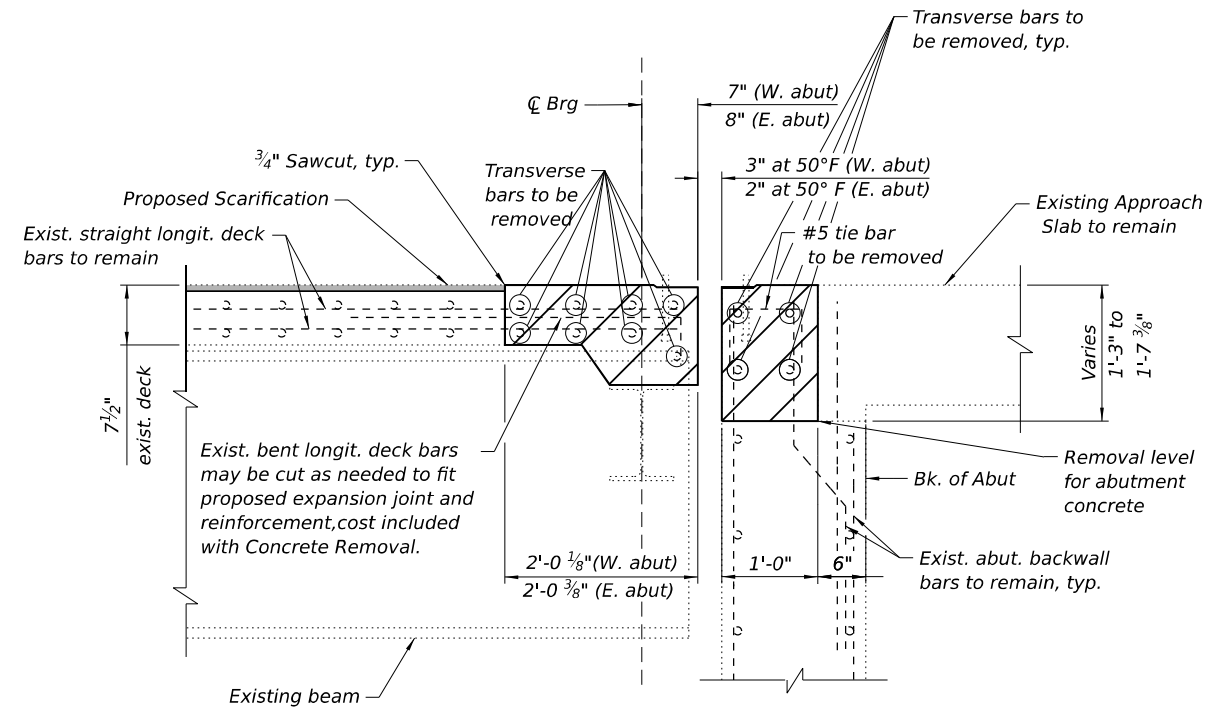
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

JOINT RECONSTRUCTION DETAILS
 STRUCTURE NO. 056-0038

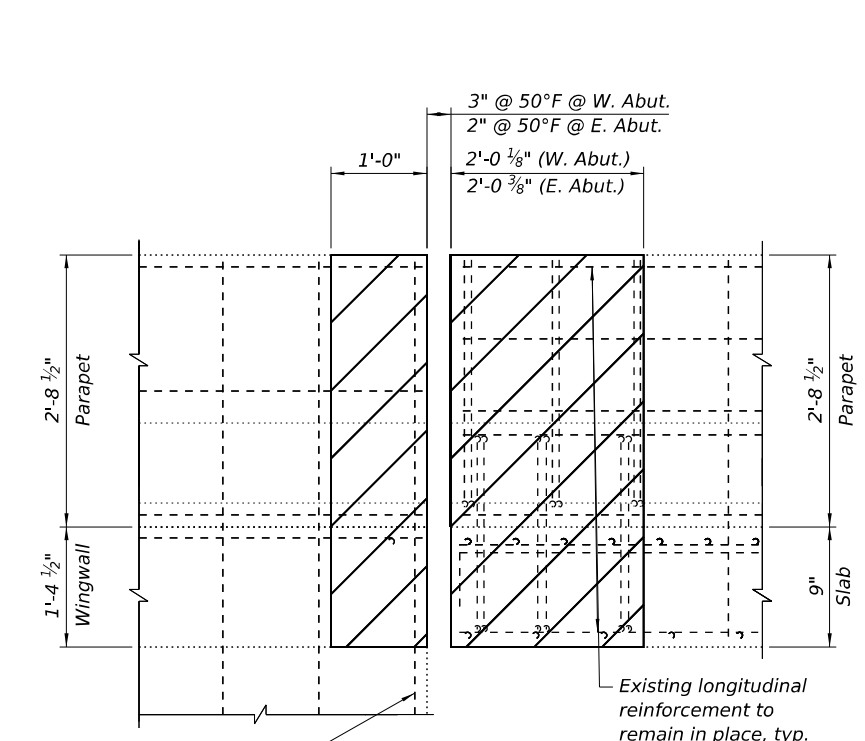
SHEET 8 OF 24 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	McHENRY	50	26
CONTRACT NO. 62T07				
ILLINOIS		FED. AID PROJECT		

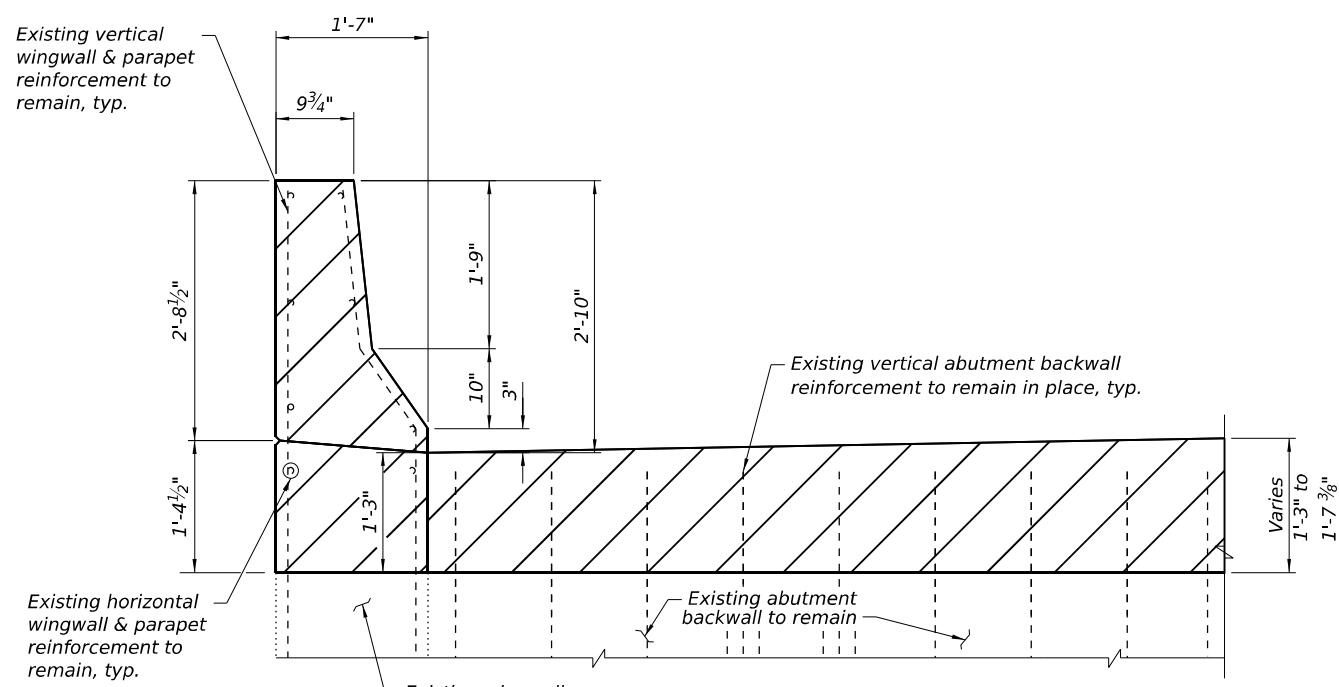
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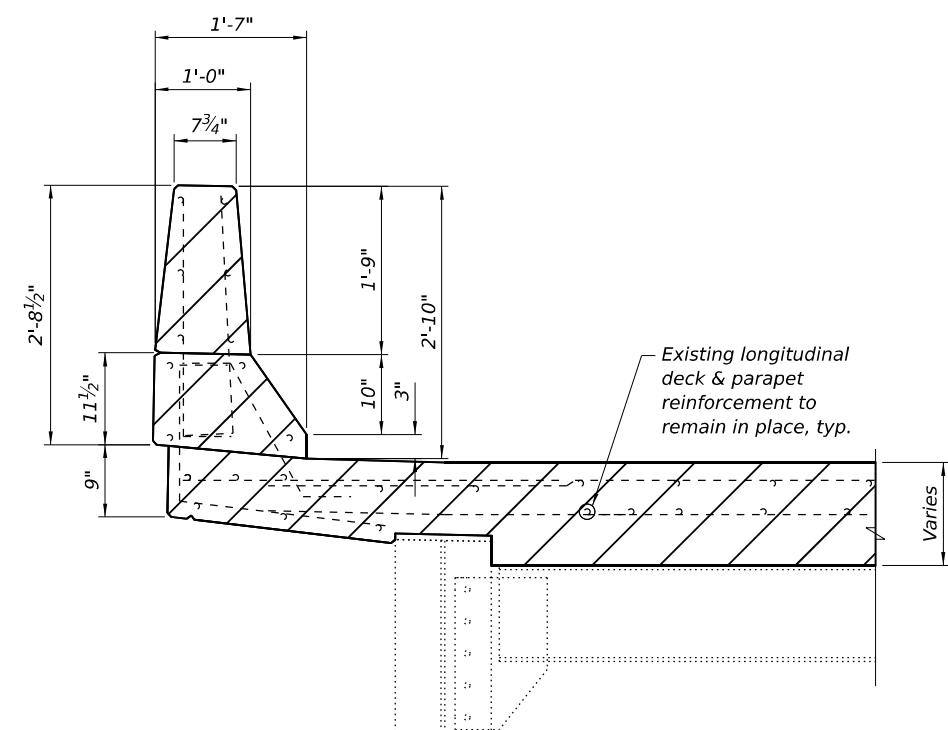
SECTION A-A
 (Showing Removal)



SECTION D-D
 (Showing Removal)



SECTION B-B
 (Showing Removal)



SECTION C-C
 (Showing Removal)

NOTES

1. Removal and disposal of existing expansion joint shall be included with the cost of concrete removal.
2. The Contractor shall use extreme care during concrete removal so as not to damage the steel beams.
3. See existing plans for reinforcement bars not shown. Existing reinforcement bars extending into the removal areas that are not shown shall remain.
4. Existing reinforcement extending into the removal area shall be cleaned, straightened, and incorporated into the new construction. Any existing reinforcement bars intended for reuse and damaged during the concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system as approved by the Engineer and at no additional cost. Cost included with Concrete Removal.

LEGEND

- Concrete Removal Limits (See note 2)
- Proposed Scarification



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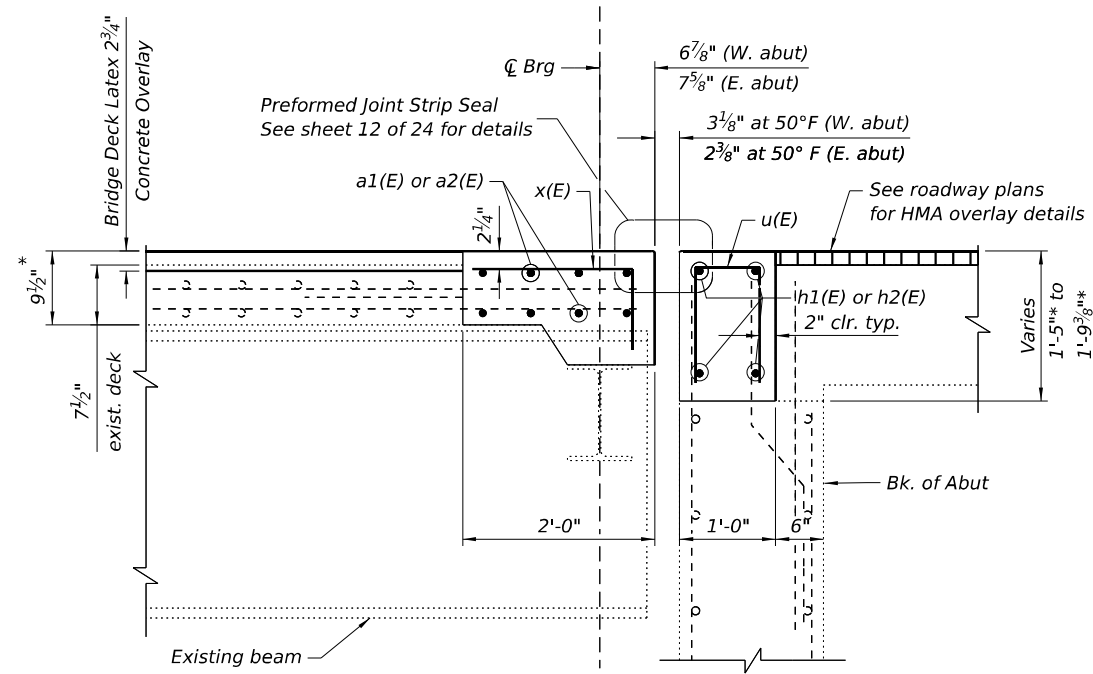
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

JOINT RECONSTRUCTION DETAILS
 STRUCTURE NO. 056-0038

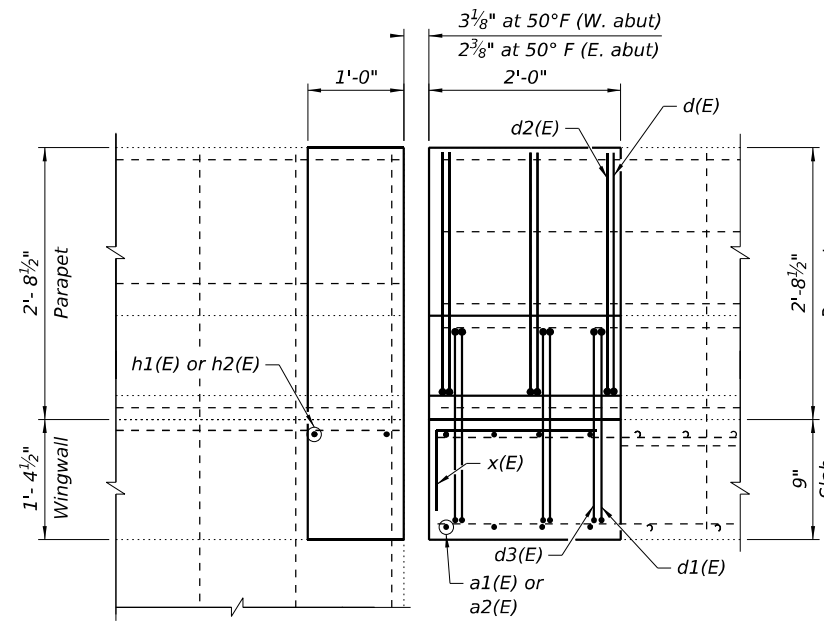
SHEET 9 OF 24 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	McHENRY	50	27
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

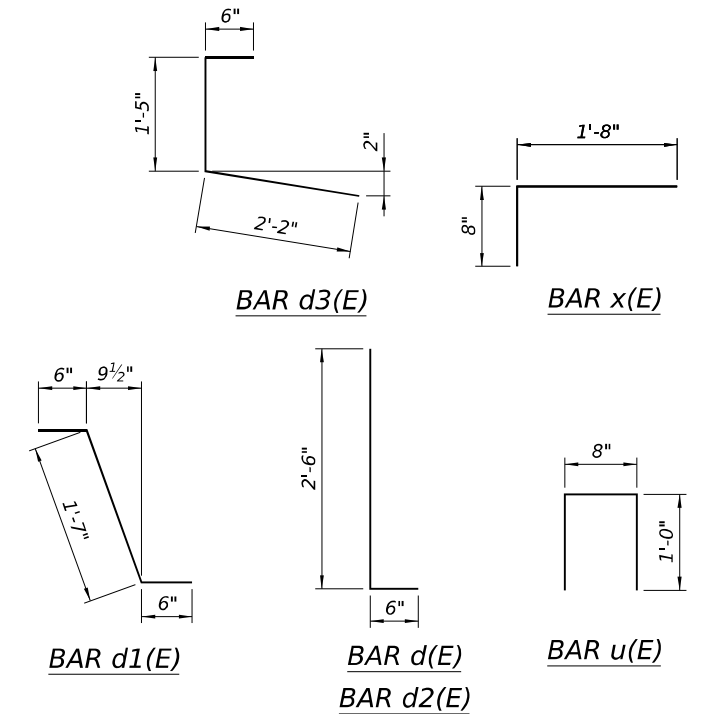
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SECTION A-A
 (Showing Reconstruction)
 * Prior to grinding

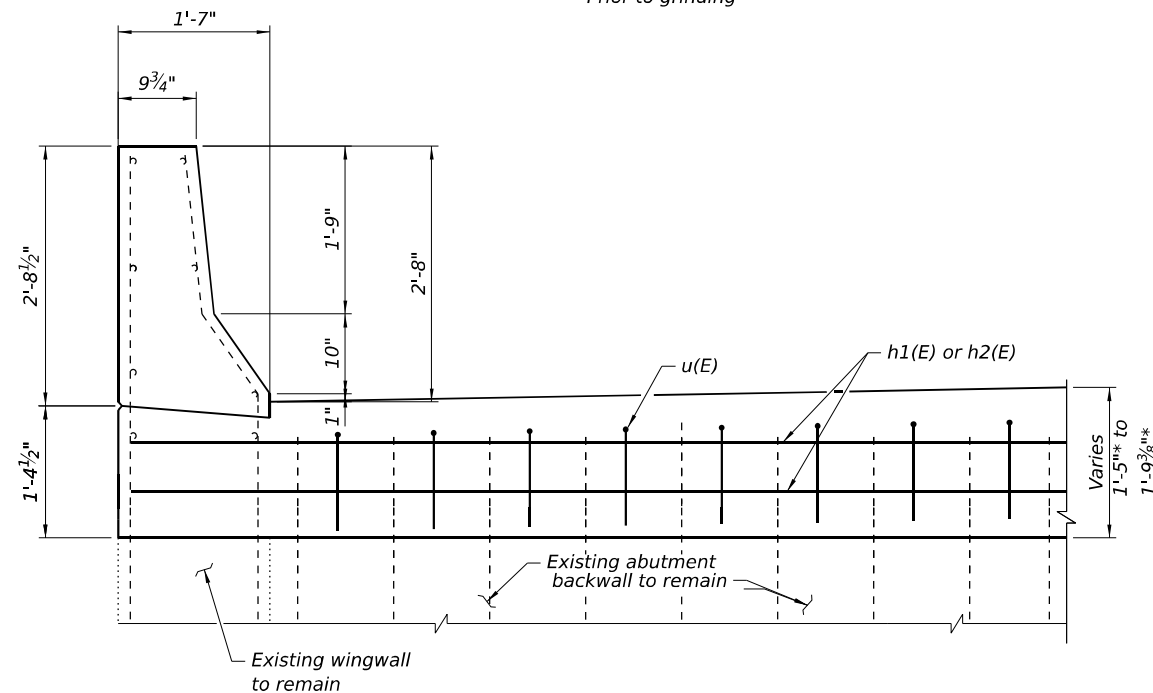


SECTION D-D
 (Showing Reconstruction)

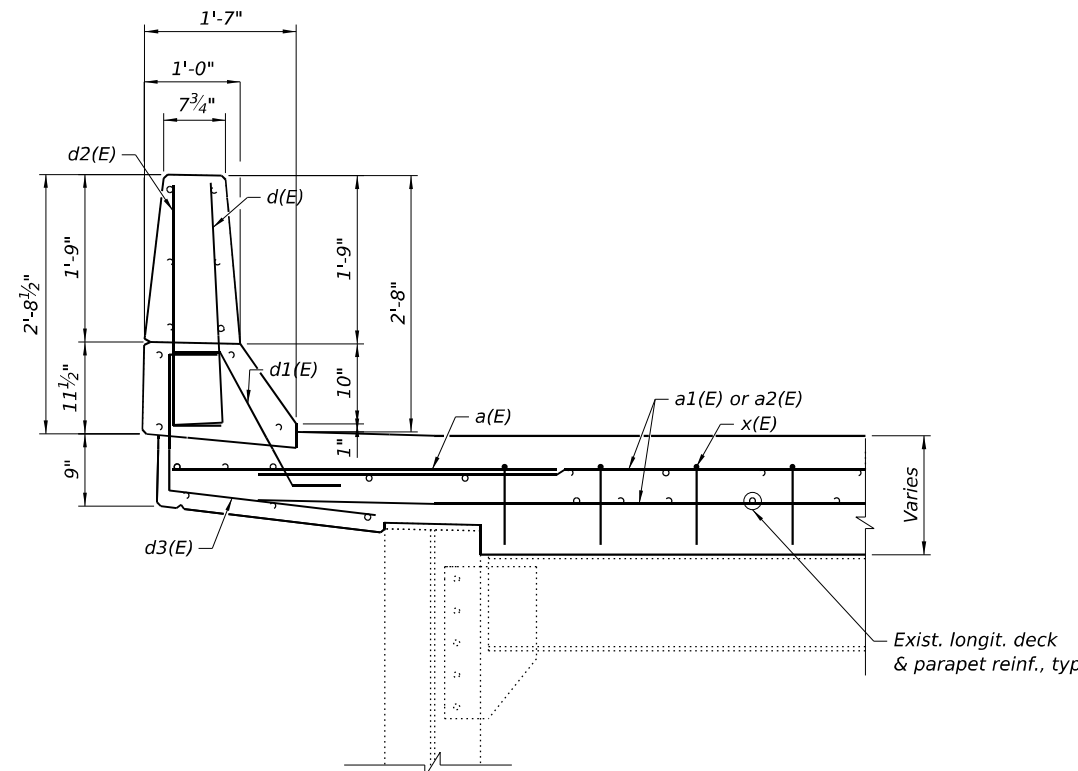


**TWO JOINT RECONSTRUCTIONS
 BILL OF MATERIALS**

Bar	No.	Size	Length	Shape
a(E)	8	#6	4'-0"	—
a1(E)	32	#5	14'-8"	—
a2(E)	16	#5	9'-9"	—
d(E)	12	#5	3'-0"	┌
d1(E)	12	#5	2'-7"	┌
d2(E)	12	#4	3'-0"	┌
d3(E)	12	#4	4'-1"	┌
h1(E)	16	#6	14'-8"	—
h2(E)	8	#6	9'-9"	—
u(E)	88	#5	2'-8"	U
x(E)	88	#5	2'-4"	┌
Concrete Removal			Cu. Yd.	10.9
Concrete Superstructure			Cu. Yd.	12.4
Reinforcement Bars, Epoxy Coated			Pound	1760



SECTION B-B
 (Showing Reconstruction)
 * Prior to grinding



SECTION C-C
 (Showing Reconstruction)

**Michael Baker
 INTERNATIONAL**

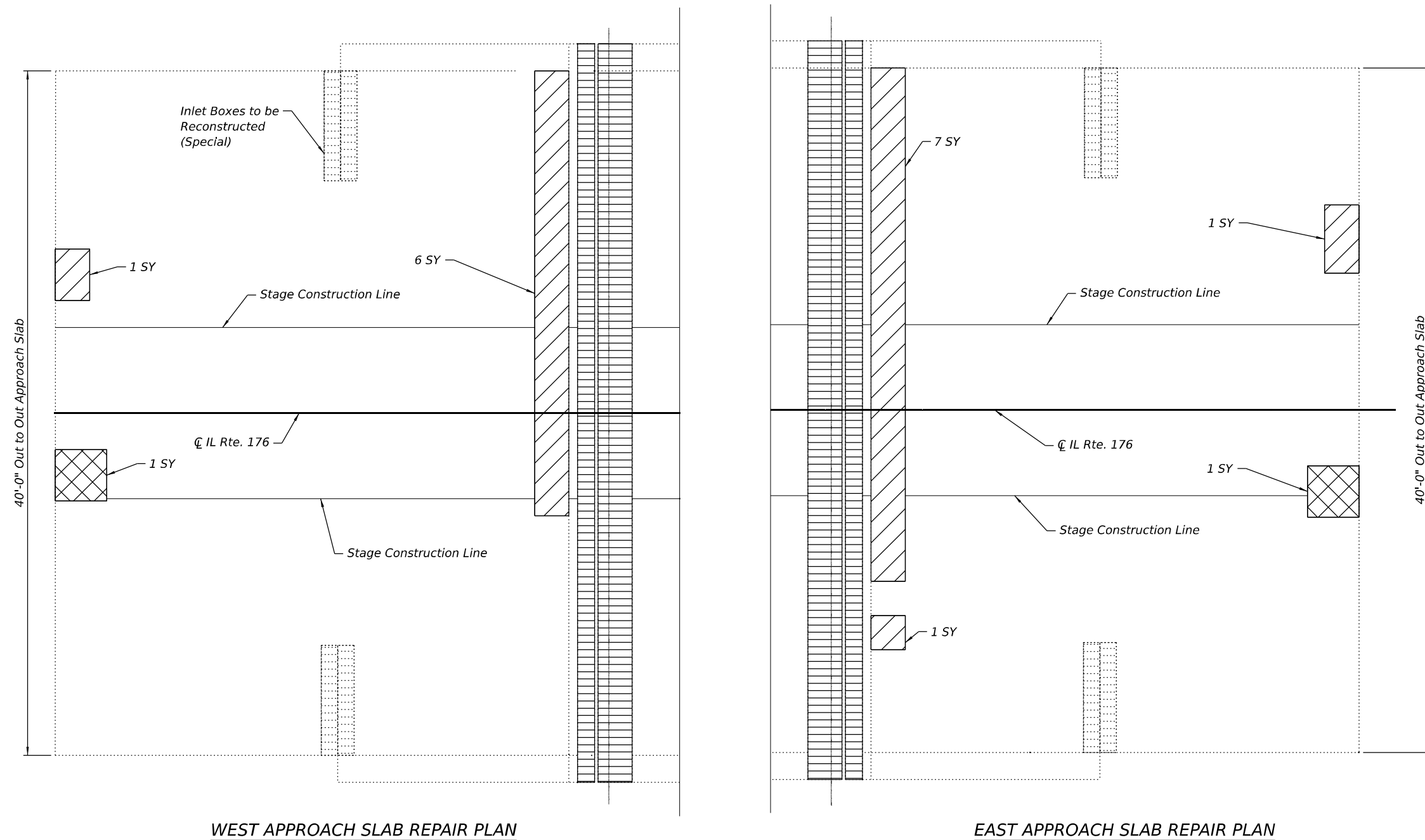
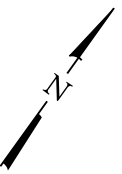
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	CHECKED - TJJ	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**JOINT RECONSTRUCTION DETAILS
 STRUCTURE NO. 056-0038**

SHEET 10 OF 24 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	28
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				



WEST APPROACH SLAB REPAIR PLAN

EAST APPROACH SLAB REPAIR PLAN

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Approach Slab Repair (Full Depth)	Sq. Yd.	2
Approach Slab Repair (Partial Depth)	Sq. Yd.	16

LEGEND

- Approach Slab Repair (Partial Depth)
- Approach Slab Repair (Full Depth)
- Joint Removal and Replacement, See Sheets 8 to 10 of 24

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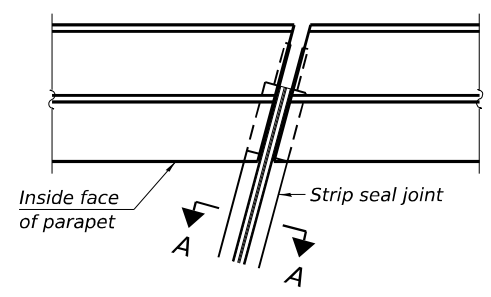
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB REPAIRS
STRUCTURE NO. 056-0038

SHEET 11 OF 24 SHEETS

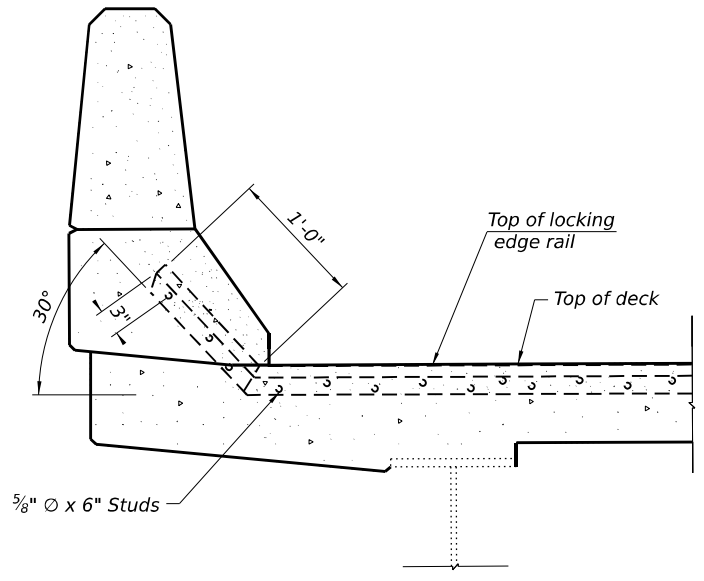
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335	FAP 0335 22 BJ	McHENRY	50	29
			CONTRACT NO. 62T07	
		ILLINOIS FED. AID PROJECT		

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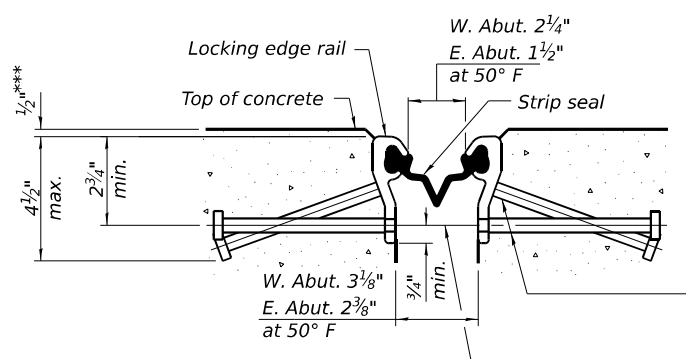


FOR SKEWS ≤ 30°

PLAN AT PARAPET



SECTION AT PARAPET
(Skews ≤ 30°)



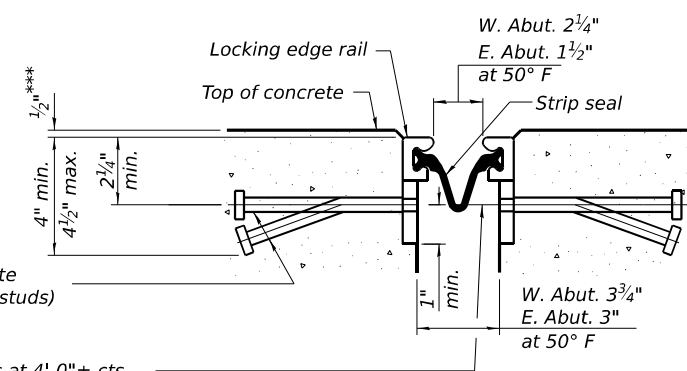
SHOWING ROLLED RAIL JOINT

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

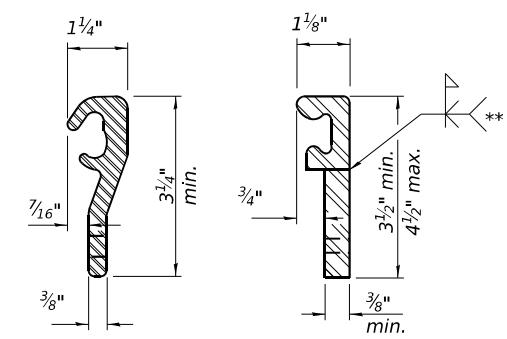
3/8" Ø threaded rods in 7/16" Ø holes at 4'-0" ± cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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



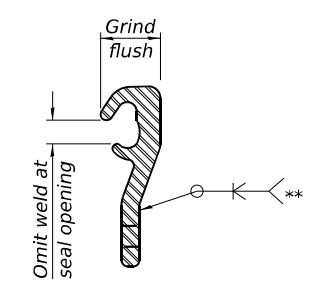
SHOWING WELDED RAIL JOINT



ROLLED (EXTRUDED) RAIL
 WELDED RAIL

LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	84.0

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 embedded plates and anchorage studs included with Preformed Joint Strip Seal.
 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.



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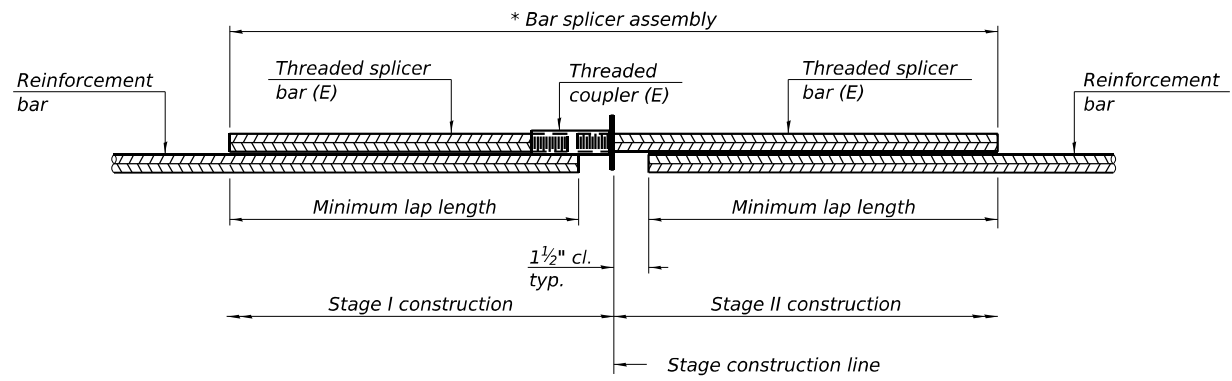
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL MODIFIED
 STRUCTURE NO. 056-0038

SHEET 12 OF 24 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	McHENRY	50	30
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

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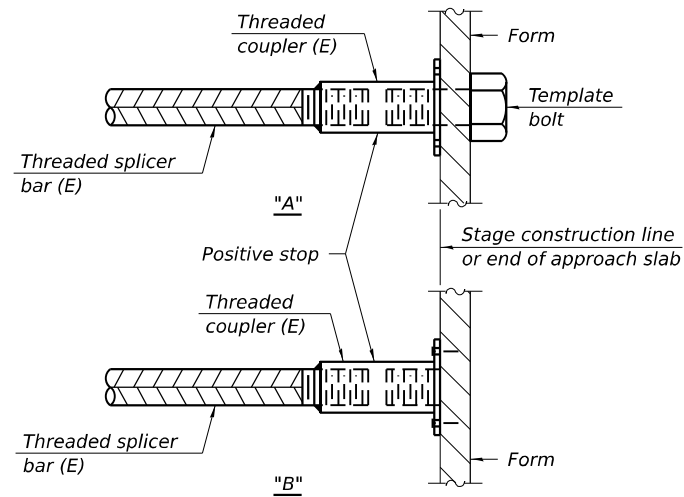
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

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
Deck	#5	32	3'-6"
Backwall	#6	16	4'-0"

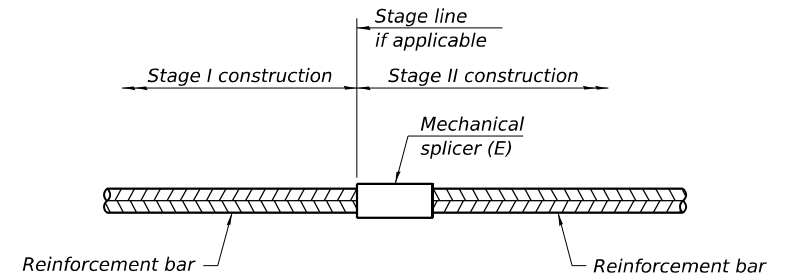


INSTALLATION AND SETTING METHODS

"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.

BSD-1 5-15-2023



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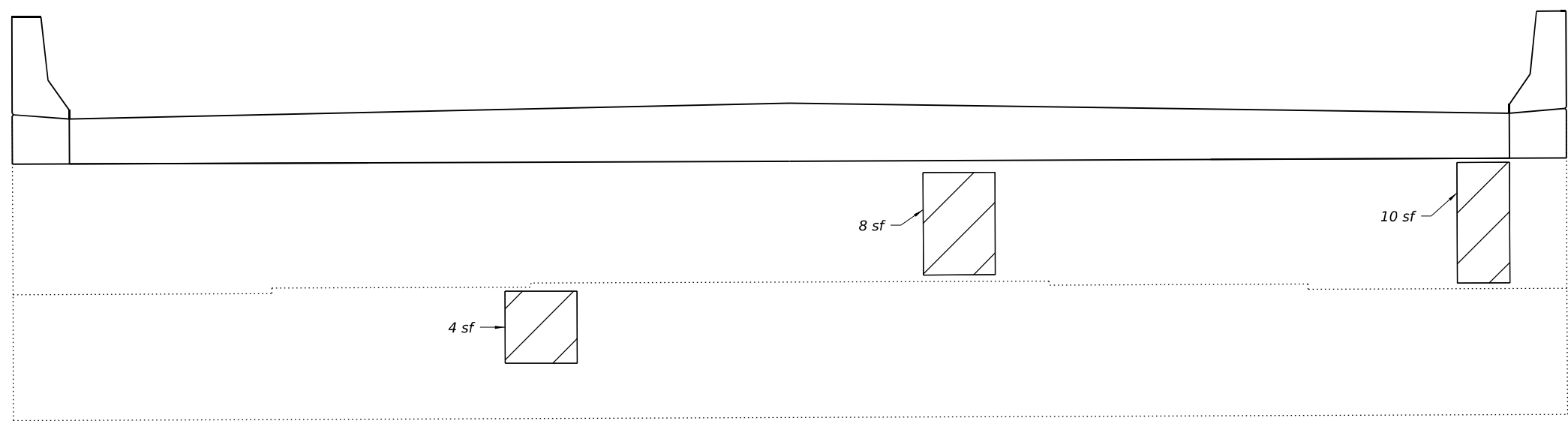
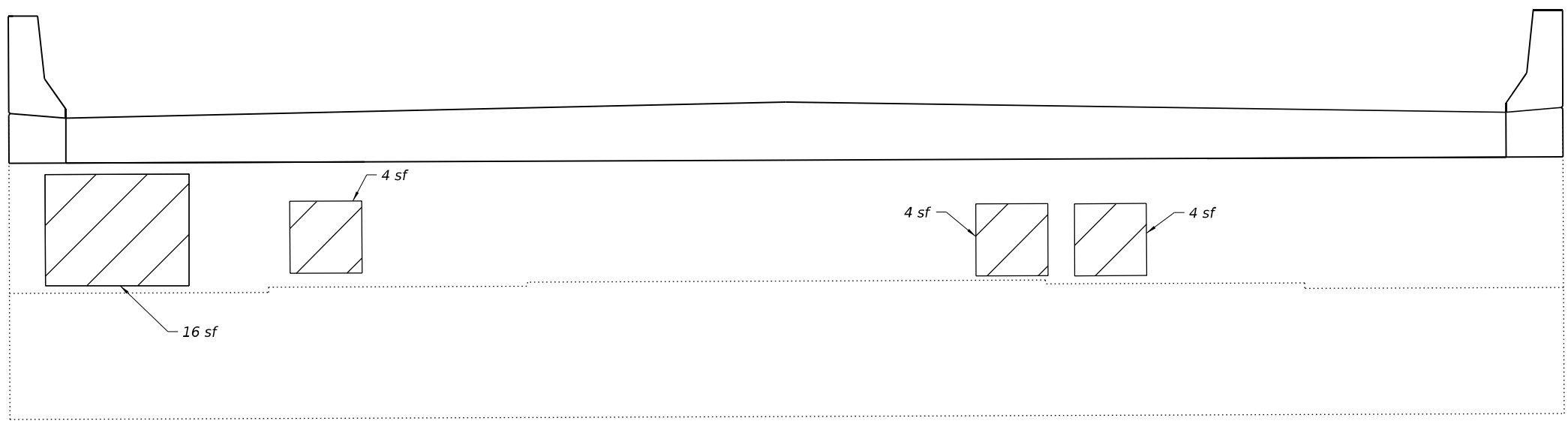
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 056-0038

SHEET 13 OF 24 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	McHENRY	50	31
CONTRACT NO. 62T07			ILLINOIS FED. AID PROJECT	


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NOTE

Repair of the existing abutment shall include, but may not be limited to, the areas shown. The actual areas to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	50



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIR DETAILS
 STRUCTURE NO. 056-0038

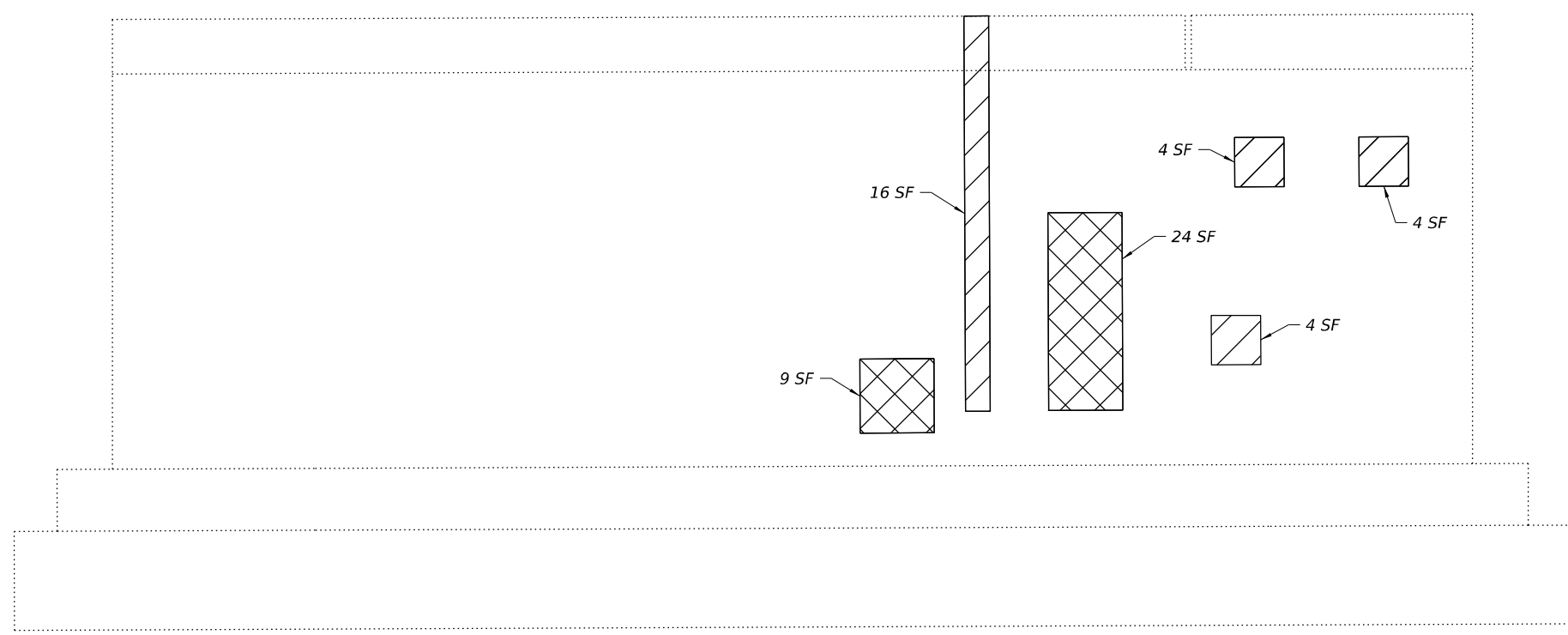
SHEET 14 OF 24 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PIER 1
(Looking east)



PIER 4
(Looking east)

NOTES

Repair of the existing piers shall include, but may not be limited to, the areas shown. The actual areas to be repaired will be determined by the Engineer at the time of construction.

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	32
	Structural Repair of Concrete (Depth greater than 5 inches)	Sq. Ft.	33



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER REPAIR DETAILS
STRUCTURE NO. 056-0038

SHEET 15 OF 24 SHEETS

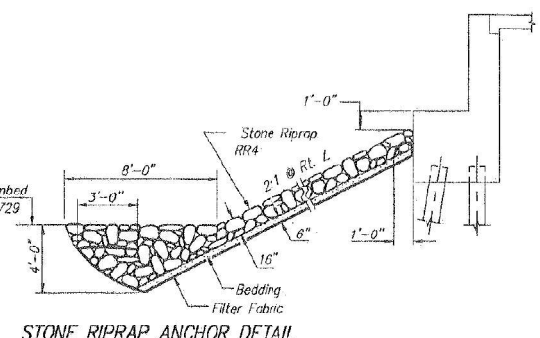
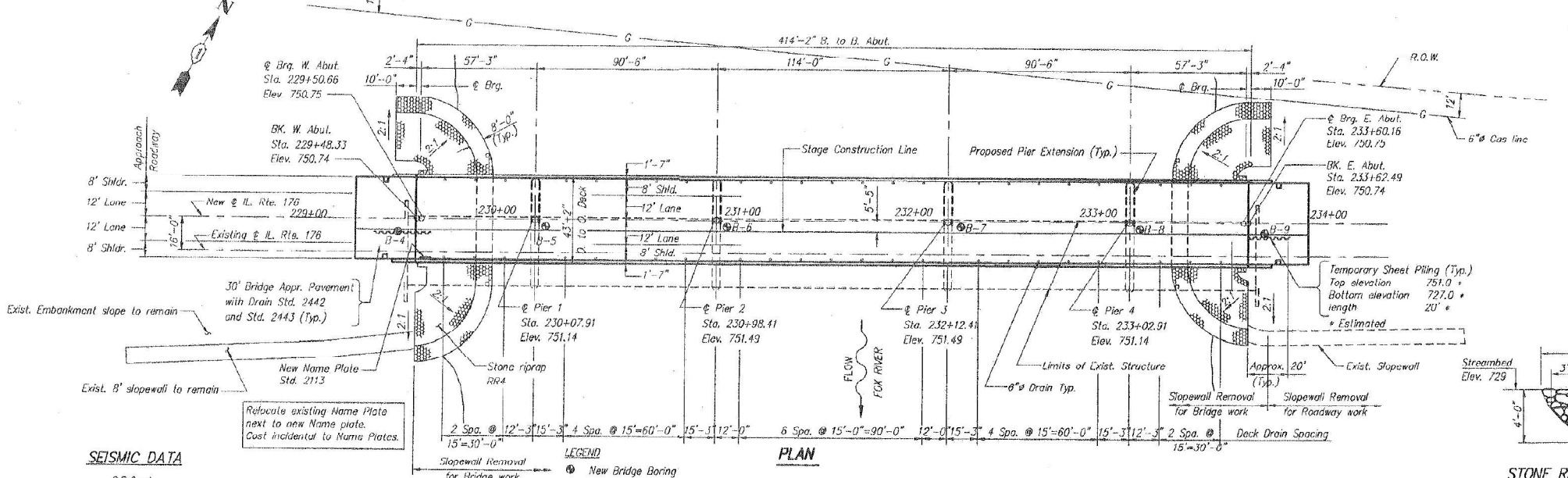
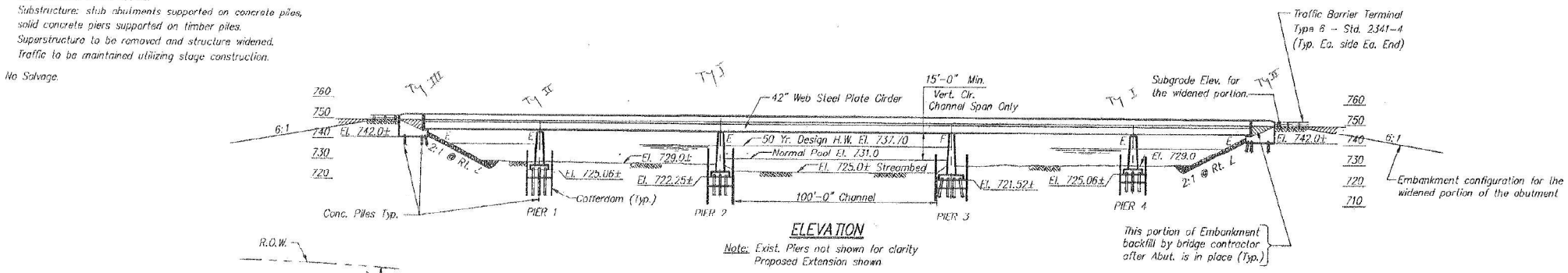
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			CONTRACT NO. 62T07	
		ILLINOIS	FED. AID PROJECT	

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B.M. Sta. 233+60, 14' R.L., Chiseled square on bridge, east side of Fox River, Elev. 750.52
 Existing Structure: Sta. 231+50.00, F.A.P. Route 335, Sec. 14B-BR
 Built in 1954, Structure number 056-0038
 Length back to back of abutments 422'-0"
 Width out to out of deck 33'-8"
 Superstructure: three continuous spans - reinforced concrete deck on riveted steel girders, simple end spans - reinforced concrete deck on steel rolled beams.
 Substructure: slab abutments supported on concrete piles, solid concrete piers supported on timber piles.
 Superstructure to be removed and structure widened.
 Traffic to be maintained utilizing stage construction.
 No Salvage

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 355	146B-R-1	McHENRY	60	24
FILE NAME PROJECT				



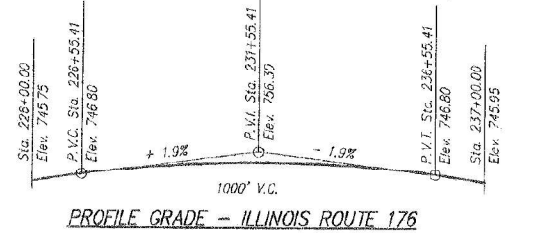
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 A = 0.035g
 S = 1.0

DESIGN SPECIFICATIONS
 AASHTO (1992) & 1993 Interim

LOADING HS20-44
 Allow 25#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS
 f_c = 3,500 psi
 f_y = 60,000 psi (reinf.)
 f_y = 50,000 psi (M270, Grade 50 Structural steel)
 f_y = 36,000 psi (M270, Grade 36 Structural steel)

DESIGNED	WCM
CHECKED	MDY
DRAWN	SOI/MBS
CHECKED	MDY



STATION 231+55.41
 REBUILT 1995 BY
 STATE OF ILLINOIS
 F.A.P. R1. 335 SEC. 146B-R-1
 F.A. PROJ.
 LOADING HS20
 STR. NO. 056-0038
NAME PLATE
 See Sta. 2113



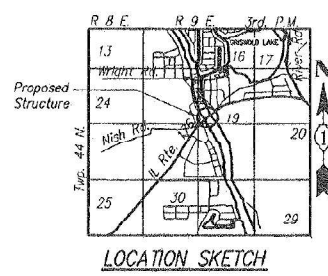
APPROVED AND SEALED
 FOR STRUCTURAL ADEQUACY ONLY

WATERWAY INFORMATION

Drainage Area = 1253 sq. mi. Low Grade Elev. 741.9 @ Sta. 239+44

Flood	Frag. Yr.	Q C.F.S.	Opening Sq. Ft.		Not. Head-Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	50	6330	3480	3715	737.7	0.1	0.1	737.8	737.8
Base	100	7420	3795	4045	738.6	0.1	0.1	738.7	738.7
Overtopping									
Max. Calc.	500	10110	4150	4415	739.6	0.1	0.1	739.7	739.7

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY



Staging Information:
 Two way traffic shall be maintained on Illinois Route 176 throughout the construction period. See cross section for location of temporary barricades (Sheet 25). This project will be constructed in two phases. Traffic will be maintained on the existing bridge during Stage I construction and shifted to the newly constructed part of the proposed structure (constructed under Stage I construction) during Stage II construction. (See Sheet 25 for details of stage construction.)

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 176 OVER THE FOX RIVER
F.A.P. RTE. 335 SECTION 146B-R-1
Sta. 231+55.41
McHENRY COUNTY
STRUCTURE NUMBER: 056-0038



USER NAME =	DESIGNED - ADM	REVISED -
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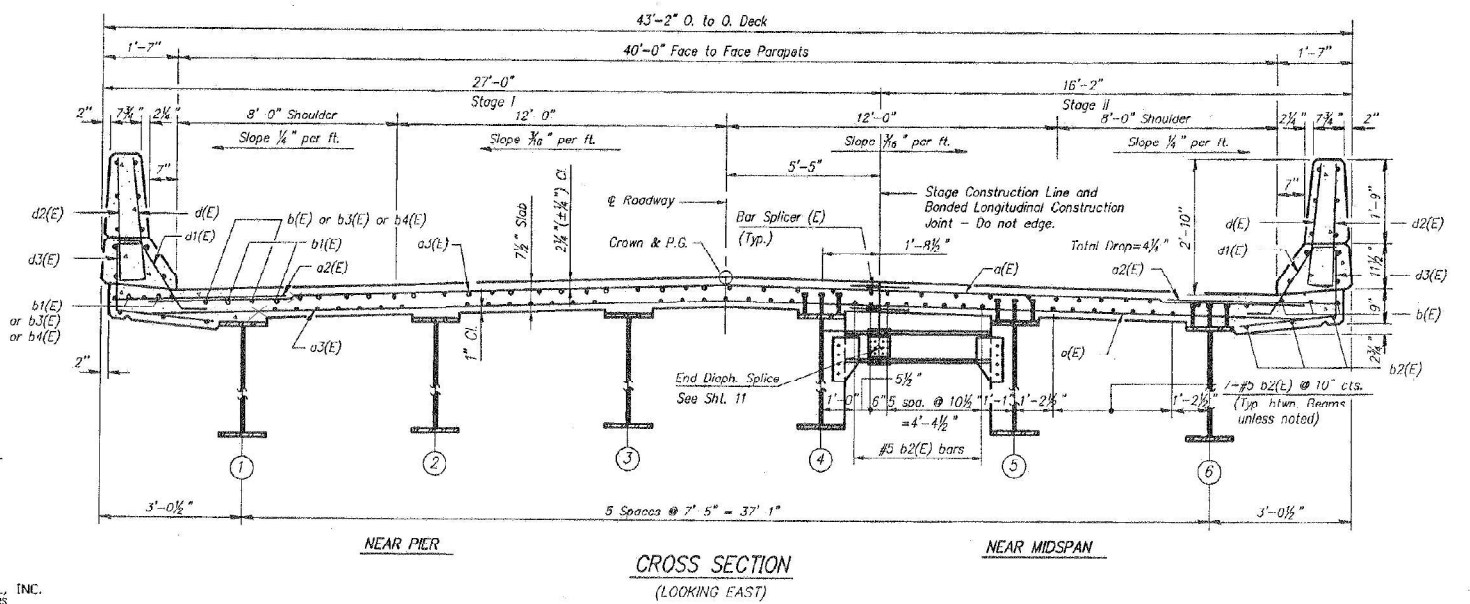
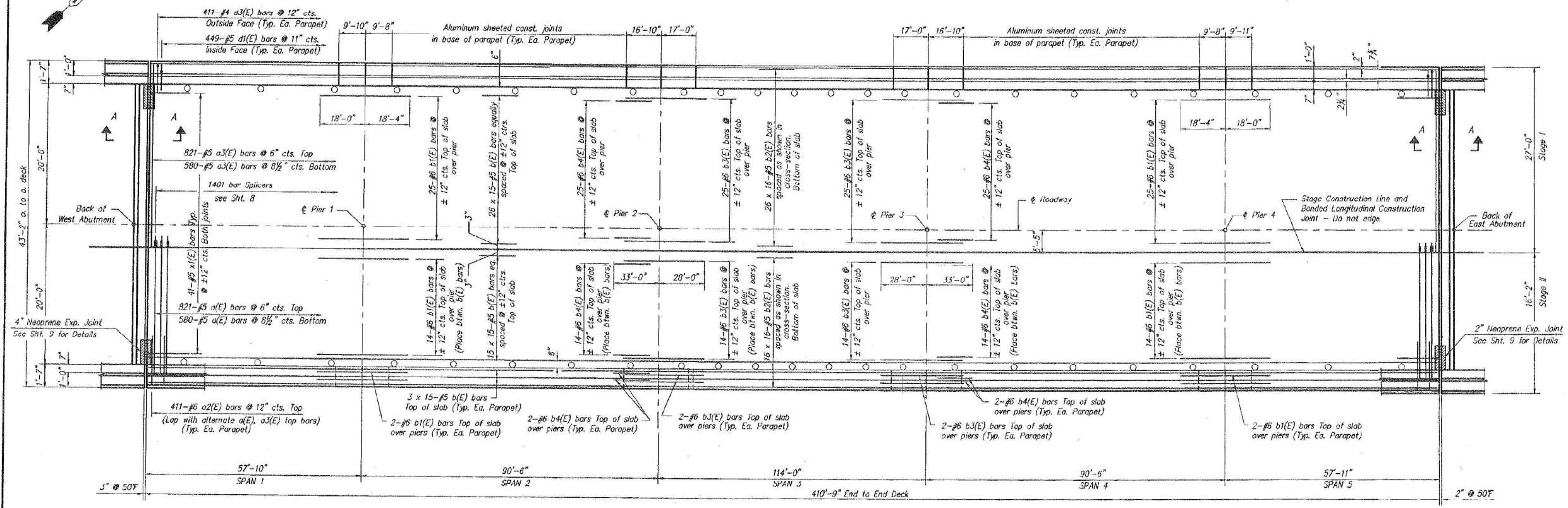
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR REFERENCE ONLY)
STRUCTURE NO. 056-0038

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	McHENRY	50	34
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 335	146B-R-1	McHENRY	60	29
27 SHEETS				



- Notes:
1. Reinforcement bars designated (E) shall be epoxy coated.
 2. Bars indicated thus 2U x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 3. See sheet 7 for superstructure details, and Bill of Material and parapet reinforcement.
 4. See sheet 7 for section A-A.
 5. Min. bar lap for #5 bar = 1'-8", for #6 bar = 2'-0"

DECK REINFORCEMENT
ILLINOIS ROUTE 176 OVER THE FOX RIVER
F.A.P. RTE. 335 SECTION 146B-R-1
STA. 231+55.41
McHENRY COUNTY
STRUCTURE NUMBER: 056-0038

DESIGNED	MDY
CHECKED	WCM
DRAWN	MBS
CHECKED	WCM

HAZELET + ERDAL, INC.
CONSULTING ENGINEERS
FILE NUMBER 666 3

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6/14/2024 3:42:04 PM



USER NAME =	DESIGNED - ADM	REVISED -
	CHECKED - TJJ	REVISED -
PLOT SCALE =	DRAWN - ADM	REVISED -
PLOT DATE =	CHECKED - TJJ	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR REFERENCE ONLY)
STRUCTURE NO. 056-0038

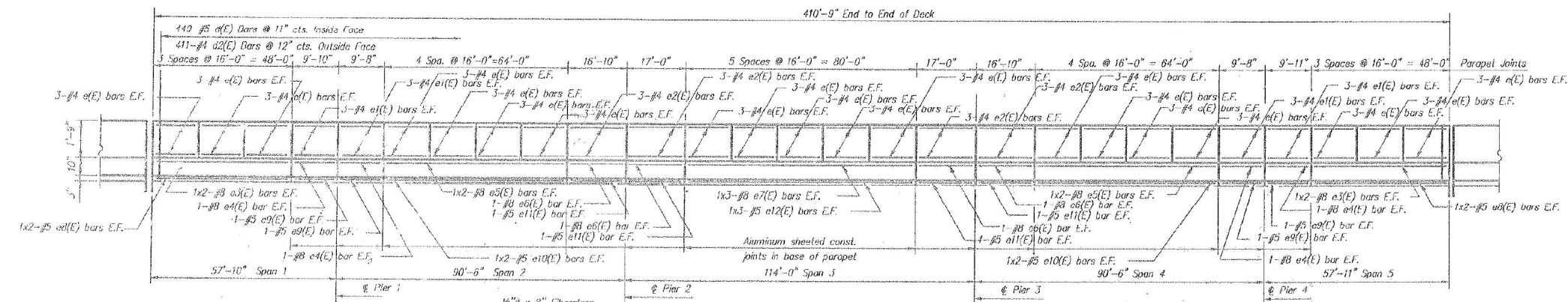
SHEET 17 OF 24 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	McHENRY	50	35
CONTRACT NO. 62T07				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

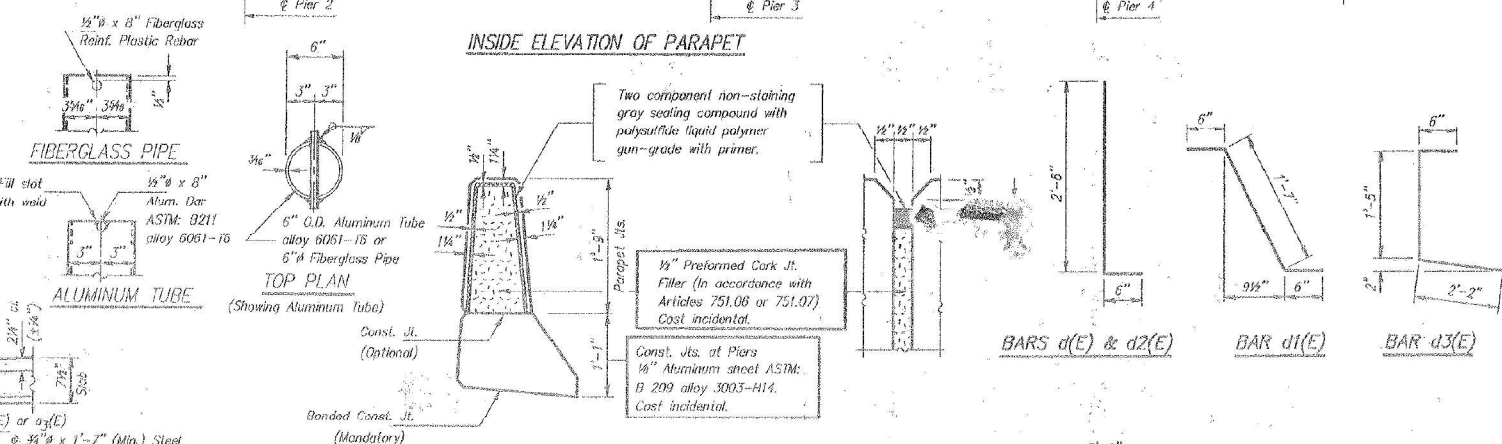
DATE	REVISION	BY	APP'D	NO.
F.A.P. 355	146B-5-1	McHENRY	60	30
FOR SHEET NO. 19 OF 24 SHEETS		SHEET NO. 7		



**SUPERSTRUCTURE
BILL OF MATERIAL**

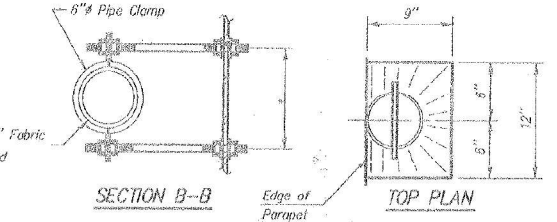
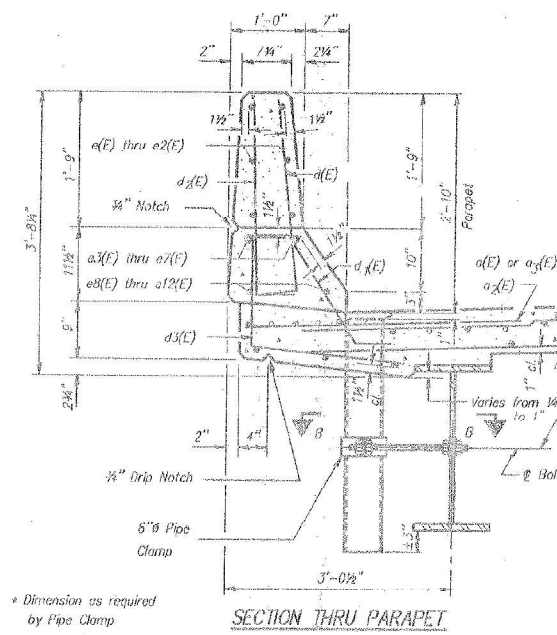
Bar	No.	Size	Length	Shape
a(E)	1401	#5	15'-2"	
a2(L)	822	#6	4'-0"	
a3(L)	1401	#5	26'-0"	
b(L)	705	#5	29'-0"	
b1(L)	86	#6	36'-4"	
b2(L)	672	#5	27'-4"	
b3(L)	36	#6	40'-0"	
b4(L)	86	#6	24'-0"	
c(E)	990	#5	3'-0"	
d1(E)	698	#5	2'-7"	
d2(L)	822	#4	3'-0"	
d3(E)	822	#4	4'-1"	
e(E)	228	#4	15'-6"	
e1(L)	48	#4	9'-5"	
e2(L)	48	#4	16'-6"	
e3(L)	16	#8	26'-1"	
e4(L)	16	#8	9'-5"	
e5(L)	16	#8	34'-1"	
e6(L)	16	#8	16'-8"	
e7(L)	12	#8	29'-6"	
e8(L)	16	#5	24'-11"	
e9(L)	16	#5	9'-5"	
e10(E)	16	#5	32'-11"	
e11(E)	16	#5	16'-6"	
e12(E)	12	#5	28'-1"	
f(E)	82	#5	4'-1"	
Reinforcement Bars (Epoxy Coated)	Lbs.		137590	
Concrete Superstructure	Cu. Yds.		507	
Floor Drains	Each		46	
Bar Splicers	Each		1401	

INSIDE ELEVATION OF PARAPET



PARAPET JOINT DETAILS

Notes:
The exterior surfaces of the Floor Drain shall be painted with the finish coat of the paint system specified for Structural Steel. The exterior surfaces of the drain shall be cleaned and given a washcoat pretreatment in accordance with Steel Structures Painting Council's Spec. SSPC SP4 & SSPC-Paint 27 prior to painting.
Fiberglass pipe shall conform to ASTM: D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. The surface of the Fiberglass pipe shall be free of bond inhibiting agents.



DESIGNED	SRG
CHECKED	WCM
DRAWN	MDS
CHECKED	WCM

S-1-D 2-26-93
HAZELT & ERDAL, INC.
CONSULTING ENGINEERS
FILE NUMBER 586-3

PARAPET DETAILS
ILLINOIS ROUTE 176 OVER THE FOX RIVER
F.A.P. RTE. 335 SECTION 146B-R-1
STA. 231+55.41
McHENRY COUNTY
STRUCTURE NUMBER: 056-0038

MODEL: Default
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**Michael Baker
INTERNATIONAL**

USER NAME =	DESIGNED - ADM	REVISED -
PLOT SCALE =	CHECKED - TJJ	REVISED -
PLOT DATE =	DRAWN - ADM	REVISED -
	CHECKED - TJJ	REVISED -

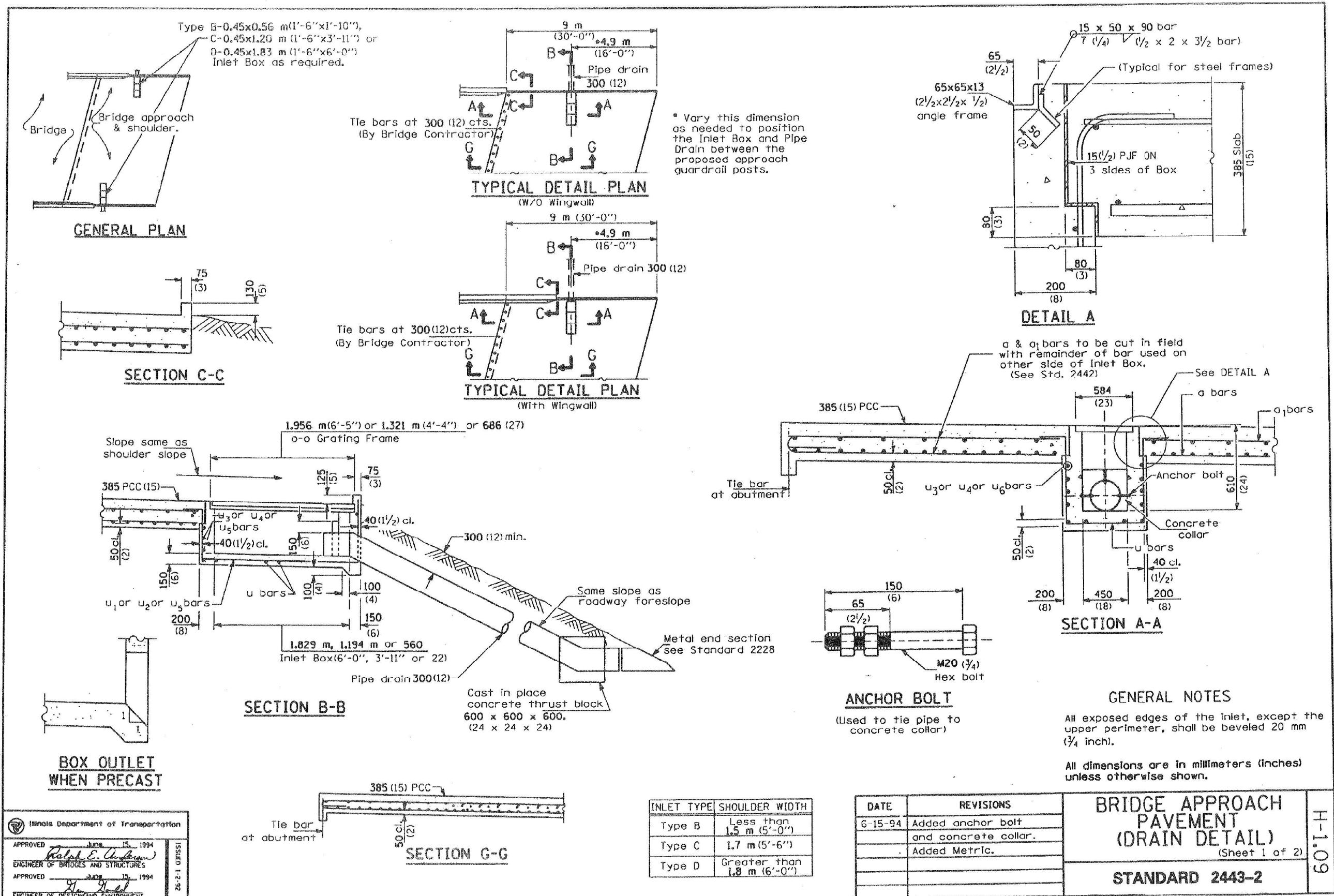
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR REFERENCE ONLY)
STRUCTURE NO. 056-0038

SHEET 19 OF 24 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	McHENRY	50	37
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

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Illinois Department of Transportation
 APPROVED *[Signature]* 15 1994
 ENGINEER OF BRIDGES AND STRUCTURES
 APPROVED *[Signature]* 15 1994
 ENGINEER OF DESIGN AND ENVIRONMENT

INLET TYPE	SHOULDER WIDTH
Type B	Less than 1.5 m (5'-0")
Type C	1.7 m (5'-6")
Type D	Greater than 1.8 m (6'-0")

DATE	REVISIONS
6-15-94	Added anchor bolt and concrete collar.
	Added Metric.

BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
 (Sheet 1 of 2)
STANDARD 2443-2

H-1.09

USER NAME =	DESIGNED - ADM	REVISED -
PLOT SCALE =	CHECKED - TJJ	REVISED -
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	CHECKED - TJJ	REVISED -

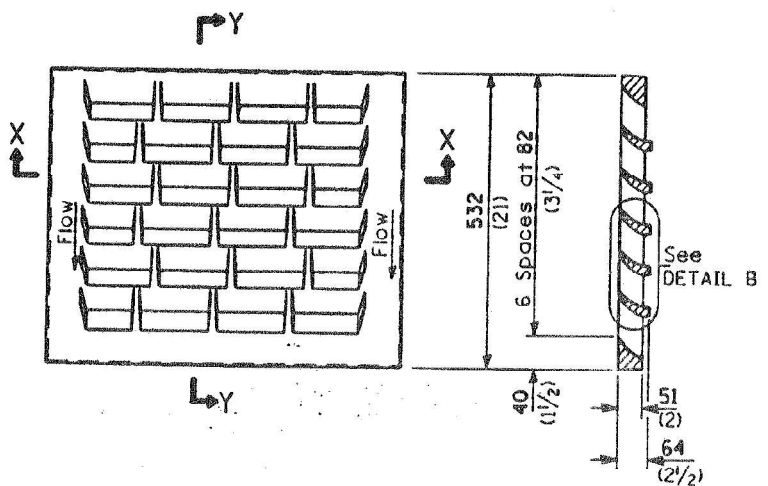
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR REFERENCE ONLY)
STRUCTURE NO. 056-0038

SHEET 20 OF 24 SHEETS

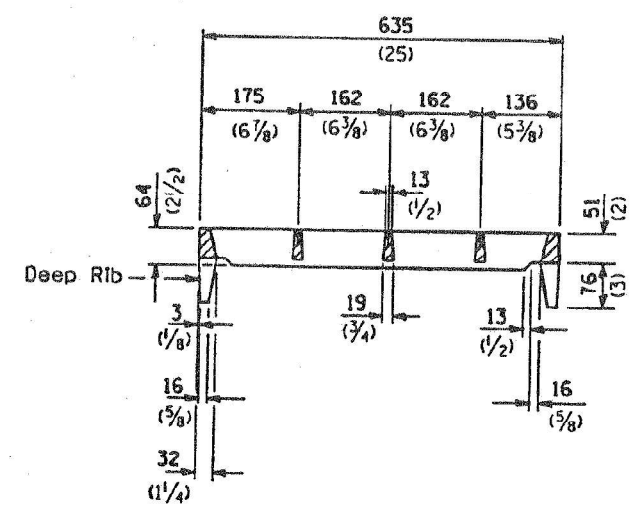
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

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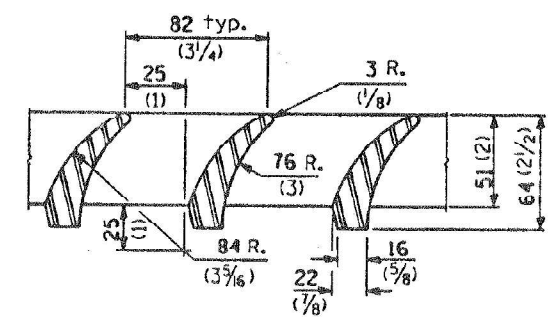


DETAIL OF CAST GRATE

Type B requires 1 grate
 Type C requires 2 grates
 Type D requires 3 grates

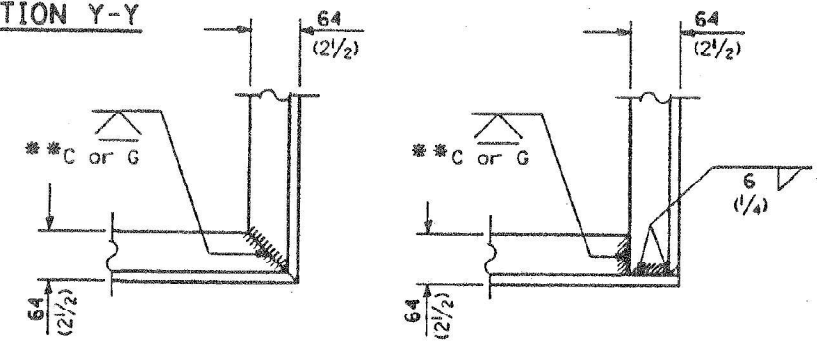


SECTION X-X
 (Deep rib shall be omitted for end(s) resting on frame perimeter.)

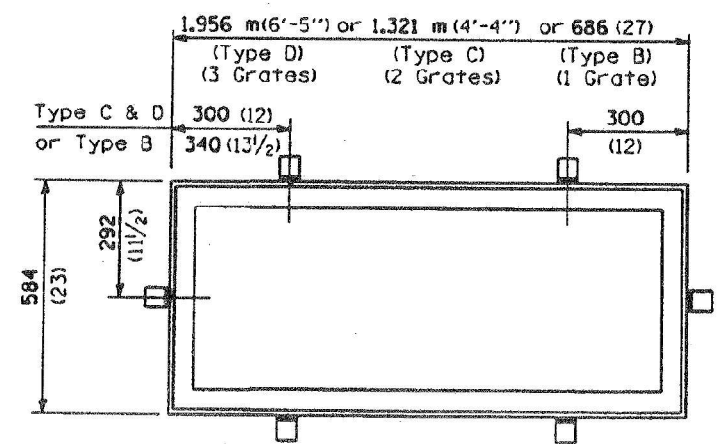


DETAIL B

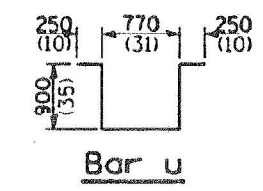
SECTION Y-Y



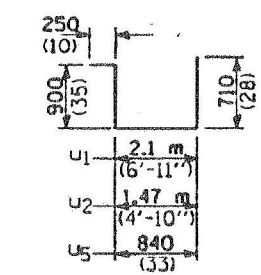
TYPICAL CORNER OF STEEL GRATING FRAME
 **Cut or Grind flush



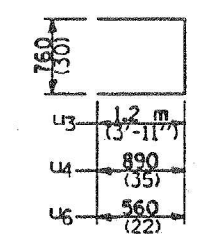
DETAIL OF STEEL FRAME
 Cast frame to have same basic dimensions.



Bar u



Bars u₁, u₂ & u₅



Bars u₃, u₄ & u₆

Material Required for One Type B Inlet Box

Bar	No.	Size	Length
u	4	No. 15 (No. 4)	3.09 m (10'-1")
u ₅	3	No. 15 (No. 4)	2.7 m (8'-10")
u ₆	4	No. 15 (No. 4)	1.88 m (6'-2")
Concrete - cast in place or Precast		m ³ (cu. yds.)	0.3 (0.4)
Reinf. Bars		kg (lbs.)	40 (60)
Grating		m ² (sq. ft.)	0.4 (3.7)

Material Required for One Type C Inlet Box

Bar	No.	Size	Length
u	6	No. 15 (No. 4)	3.09 m (10'-1")
u ₂	3	No. 15 (No. 4)	3.3 m (10'-11")
u ₄	4	No. 15 (No. 4)	2.54 m (8'-4")
Concrete - cast in place or Precast		m ³ (cu. yds.)	0.7 (0.9)
Reinf. Bars		kg (lbs.)	60 (80)
Grating		m ² (sq. ft.)	0.8 (7.3)

Material Required for One Type D Inlet Box

Bar	No.	Size	Length
u	8	No. 15 (No. 4)	3.09 m (10'-1")
u ₁	3	No. 15 (No. 4)	3.96 m (13'-2")
u ₃	4	No. 15 (No. 4)	3.14 m (10'-4")
Concrete - cast in place or Precast		m ³ (cu. yds.)	0.9 (1.2)
Reinf. Bars		kg (lbs.)	80 (100)
Grating		m ² (sq. ft.)	1.1 (11.0)

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

BRIDGE APPROACH PAVEMENT (DRAIN DETAIL)
 (Sheet 2 of 2)

STANDARD 2443-2

H-11.0

Illinois Department of Transportation

APPROVED June 15, 1994
Ralph E. Anderson
 ENGINEER OF BRIDGES AND STRUCTURES

APPROVED June 15, 1994
Alan J. ...
 ENGINEER OF DESIGN AND ENVIRONMENT

26-2-1 03RIS

Michael Baker INTERNATIONAL

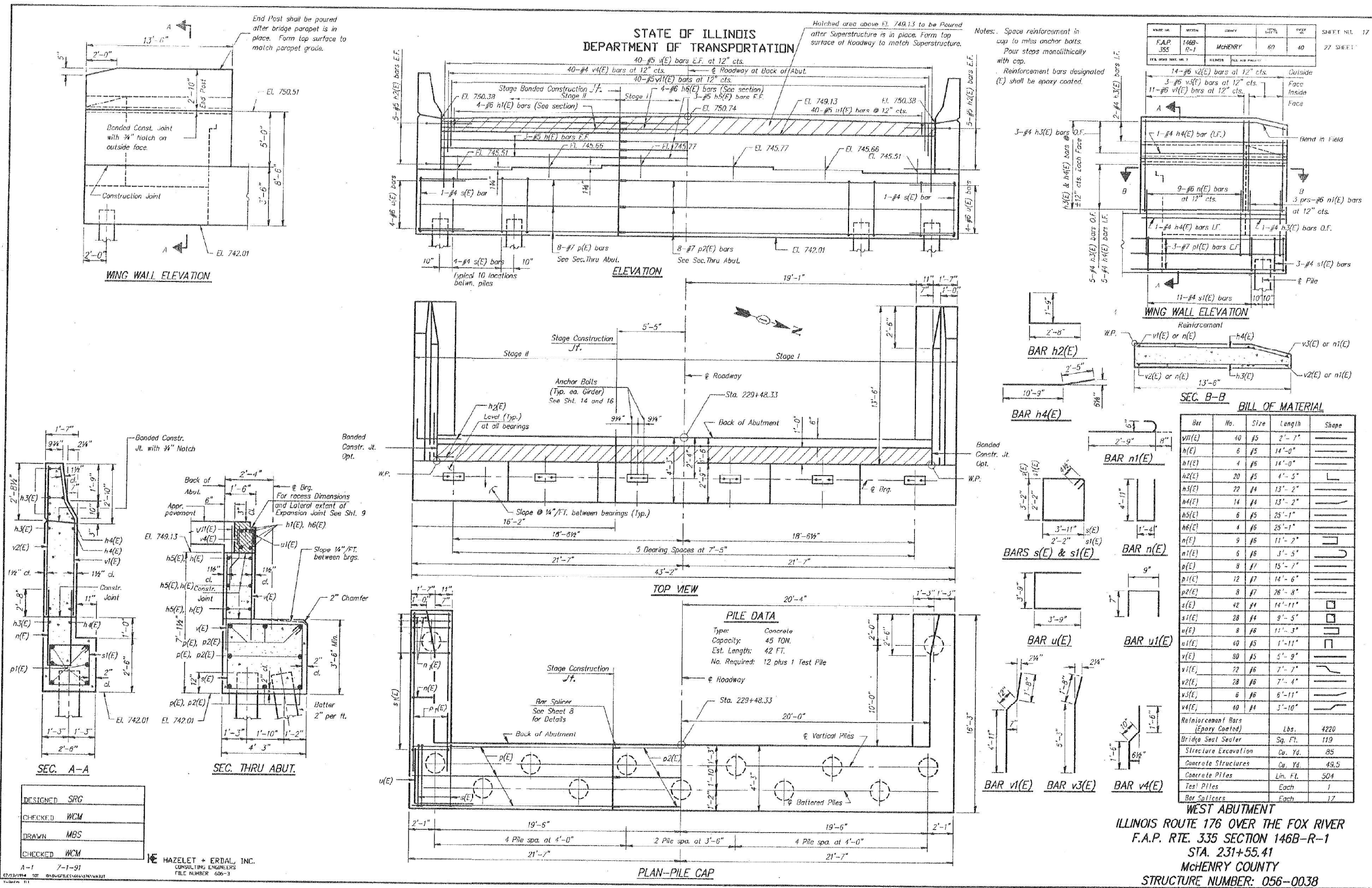
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PLOT SCALE =	CHECKED - TJJ	REVISED -
PLOT DATE =	DRAWN - ADM	REVISED -
	CHECKED - TJJ	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS (FOR REFERENCE ONLY) STRUCTURE NO. 056-0038

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	McHENRY	50	39
CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

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**Michael Baker
 INTERNATIONAL**

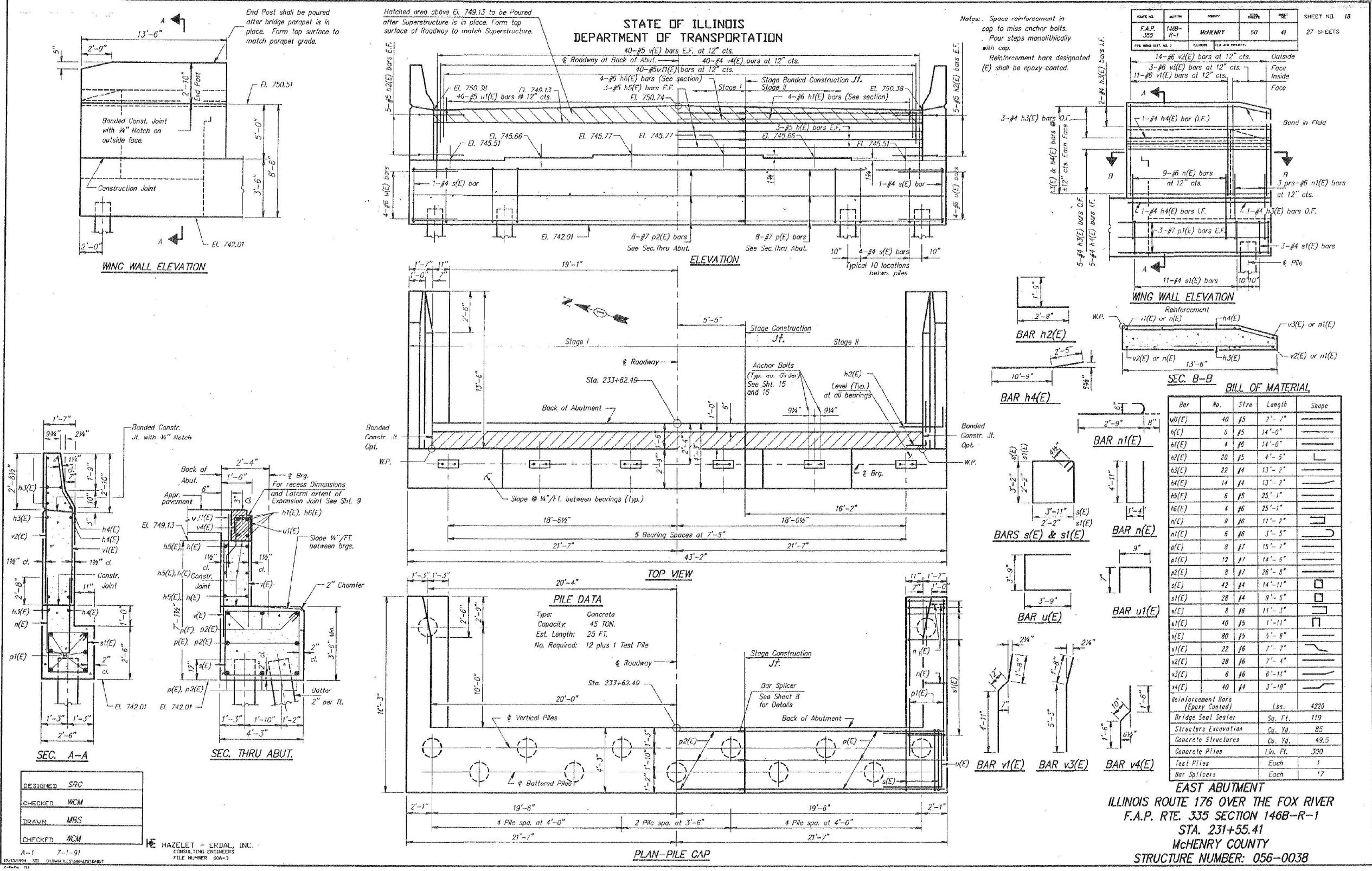
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CHECKED	WCM	CHECKED -	TJJ	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING BRIDGE PLANS (FOR REFERENCE ONLY)
 STRUCTURE NO. 056-0038**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

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DRAWN	MBS
CHECKED	WCM

HAZELET + ERDAL, INC.
 CONSULTING ENGINEERS
 FILE NUMBER 606-1

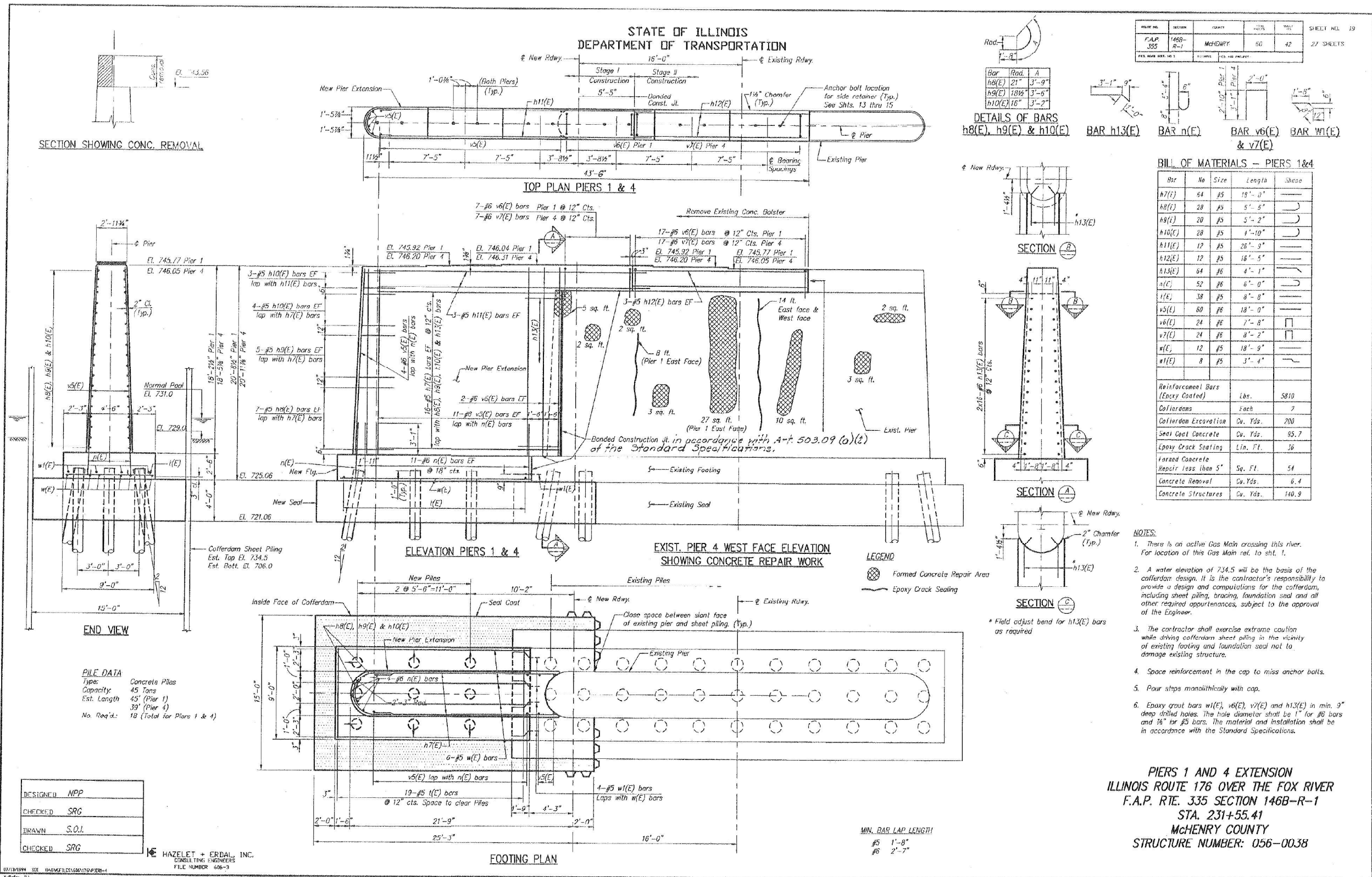
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

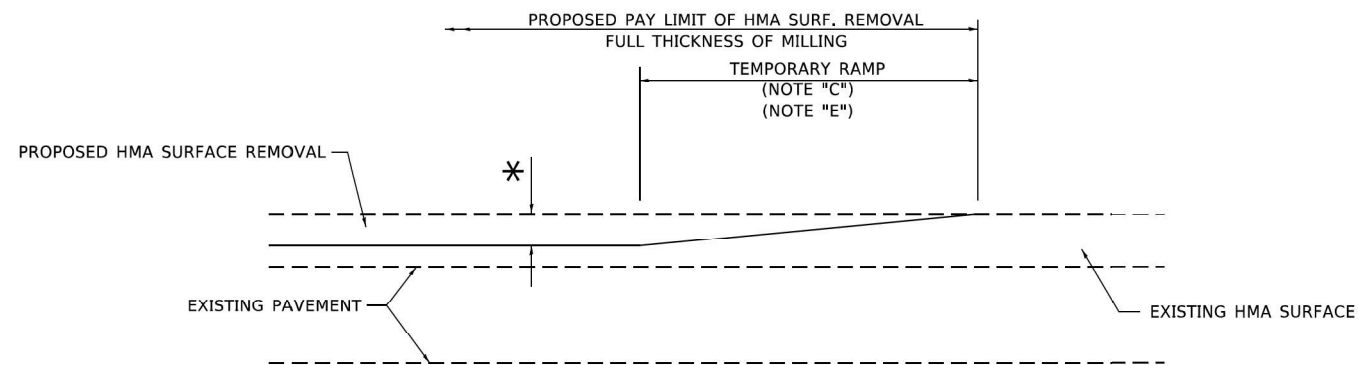
**EXISTING BRIDGE PLANS (FOR REFERENCE ONLY)
 STRUCTURE NO. 056-0038**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T07				
ILLINOIS FED. AID PROJECT				

SHEET 23 OF 24 SHEETS

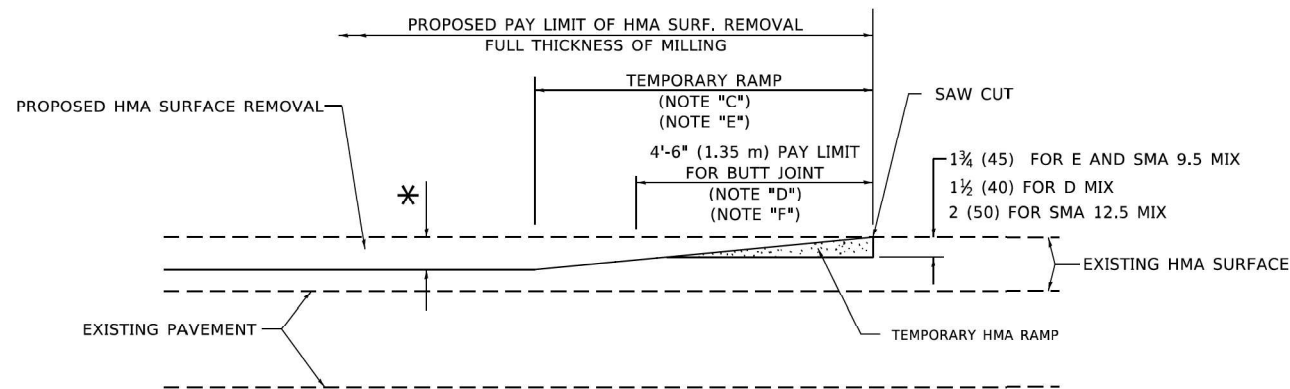
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MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

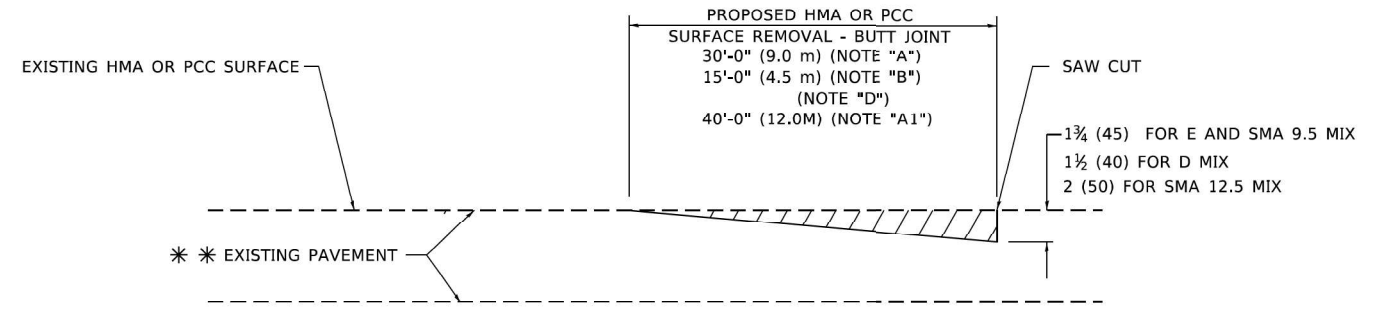
OPTION 1



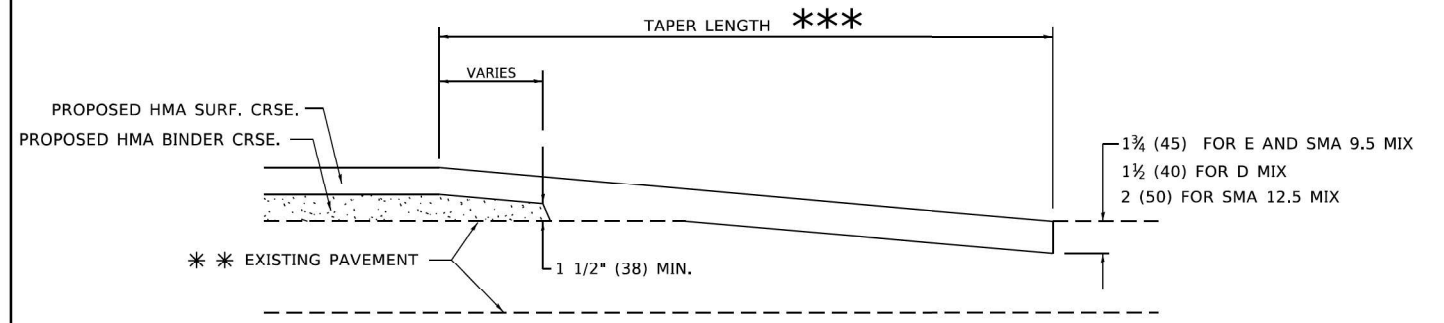
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

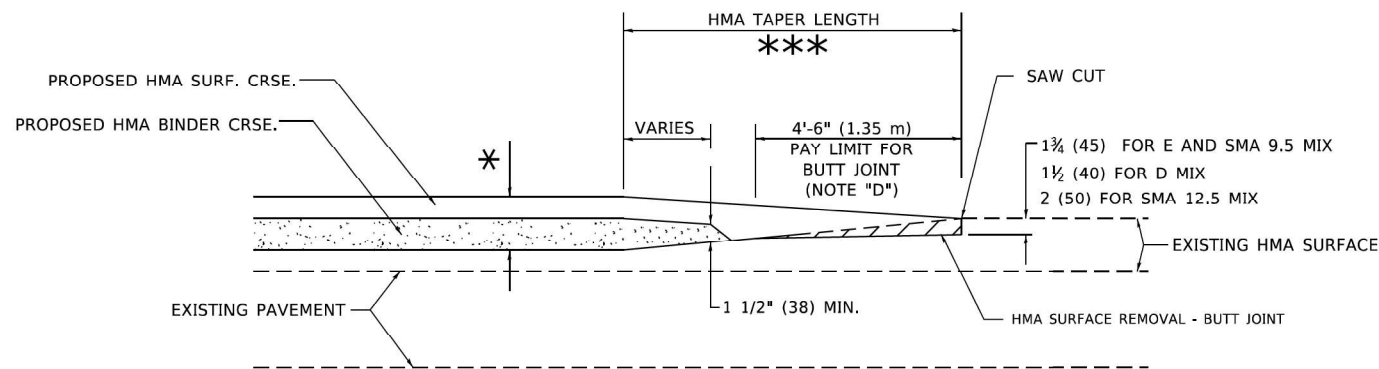
GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

MODEL: D:\eet-b\32\Sheet\ Michael Baker INTERNATIONAL 200 West Adams Street, Suite 1800, Chicago, IL 60606 Phone: (312) 707-8770 - M.BAKER@MBAKERINTL.COM

Michael Baker INTERNATIONAL
200 West Adams Street, Suite 1800, Chicago, IL 60606
Phone: (312) 707-8770 - M.BAKER@MBAKERINTL.COM

USER NAME = Zach.Tanner	DESIGNED - M DE YONG	REVISED - A. ABBAS 03-21-97
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 6/14/2024	DATE - 06/13/1990	REVISED - R. BORO 01-01-07
		REVISED - K. SMITH 11-18-22

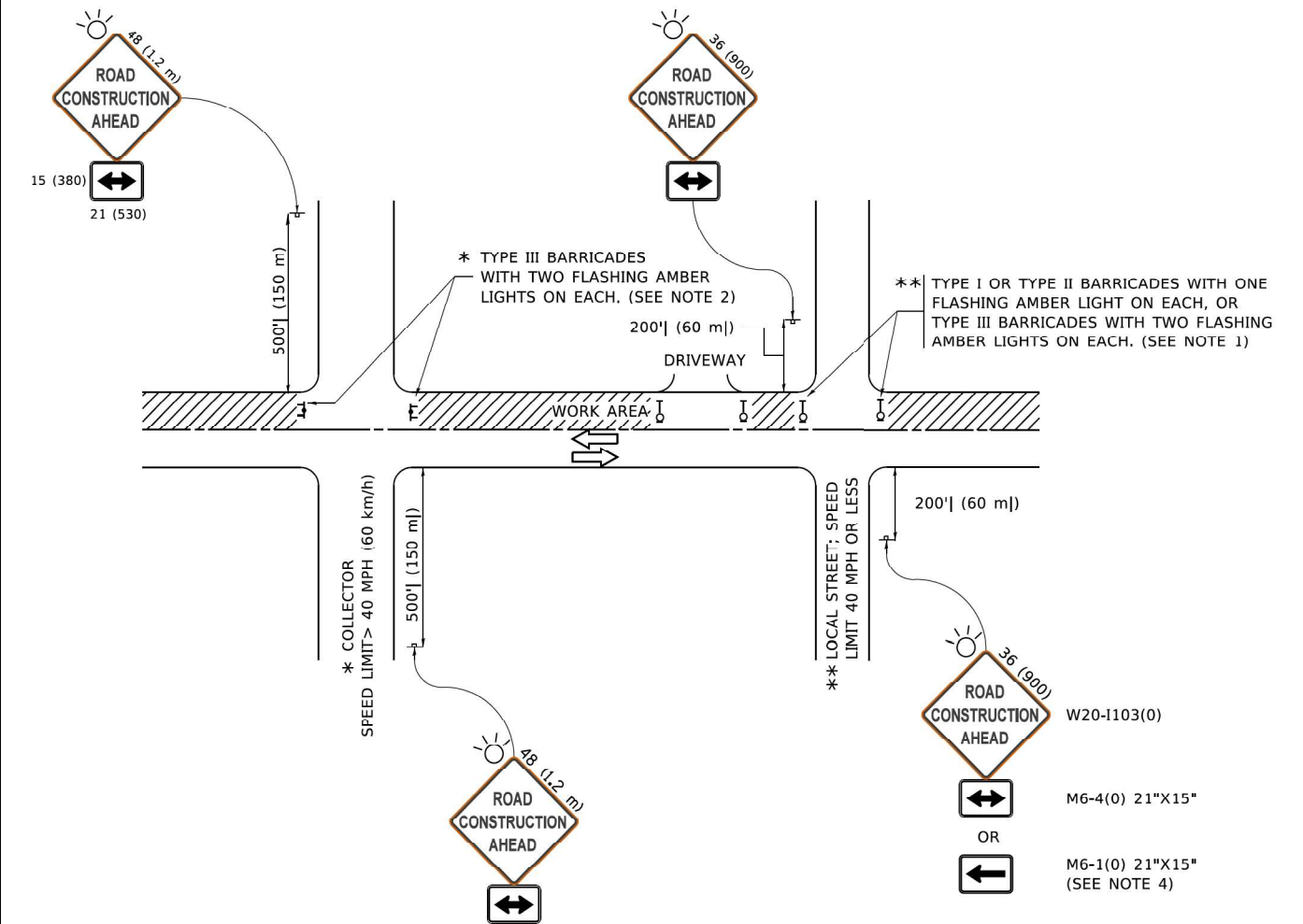
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	43
BD400-05 (BD-32)			ILLINOIS FED. AID PROJECT	

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NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

Michael Baker INTERNATIONAL
 200 West Adams Street, Suite 1800, Chicago, IL 60606
 Phone: (312) 707-8770 • M.BAKER@INTL.COM

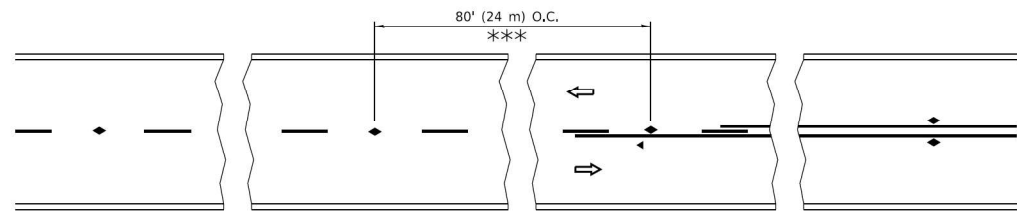
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PLOT DATE = 6/14/2024	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
 SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

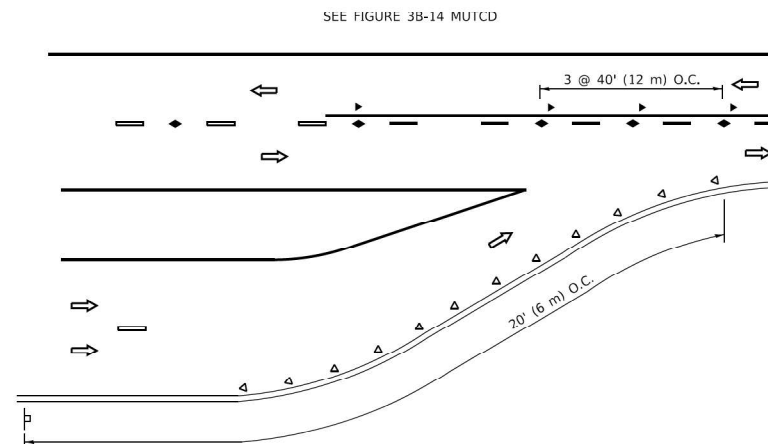
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62T07				
TC-10	ILLINOIS	FED. AID PROJECT		

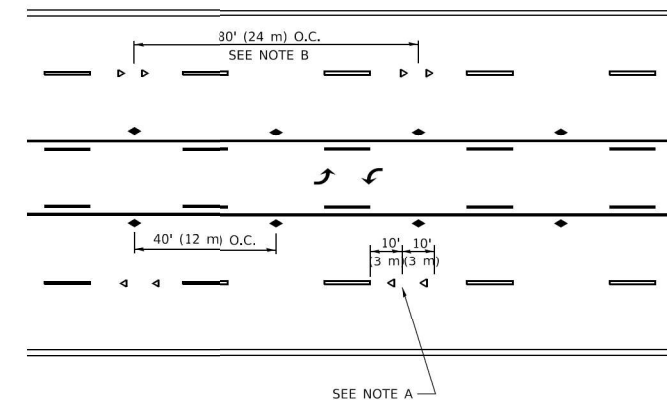


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

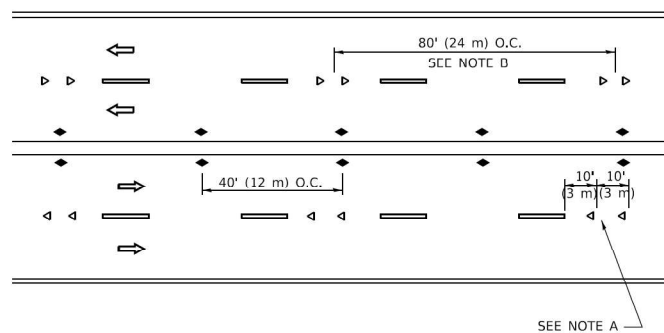
TWO-LANE/TWO-WAY



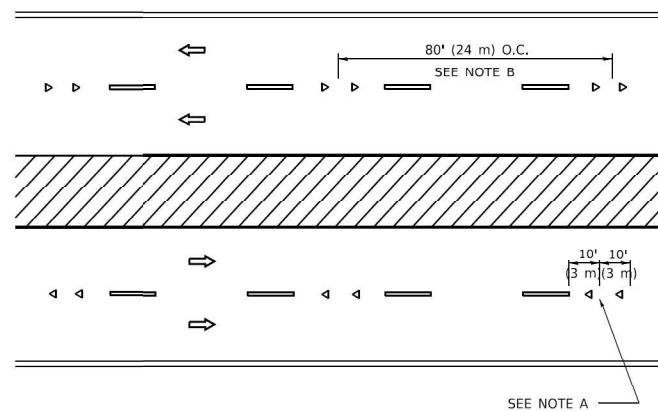
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

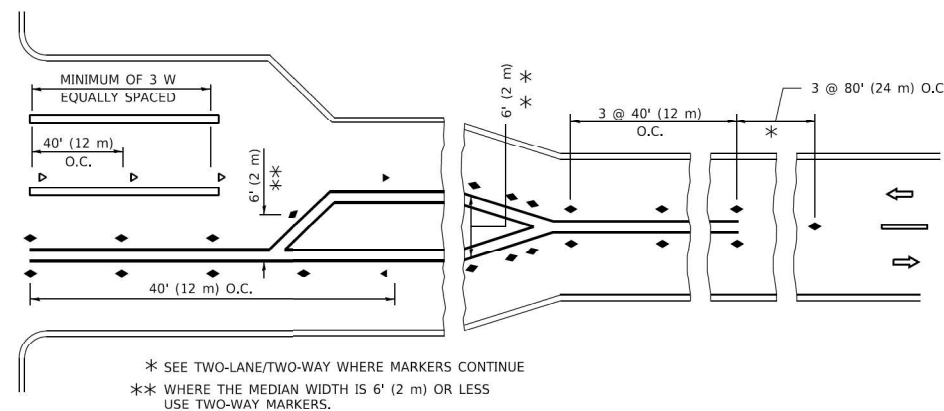
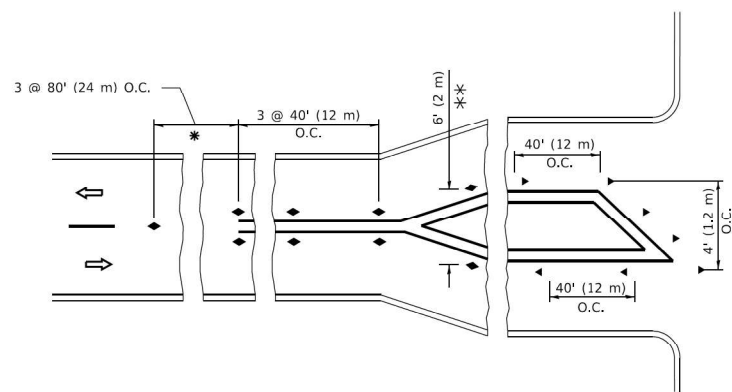
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



TURN LANES

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

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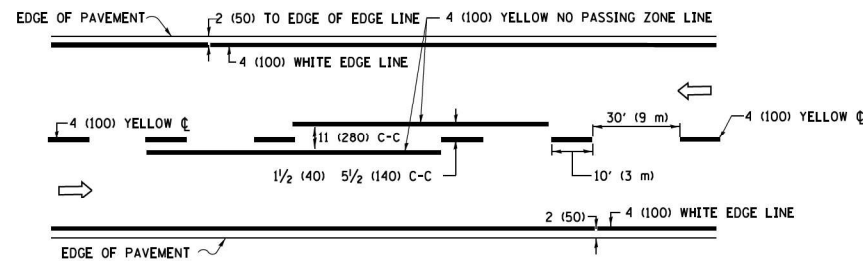
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USER NAME = Zach.Tanner	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 6/14/2024	CHECKED -	REVISED -
	DATE - 06-89	REVISED -

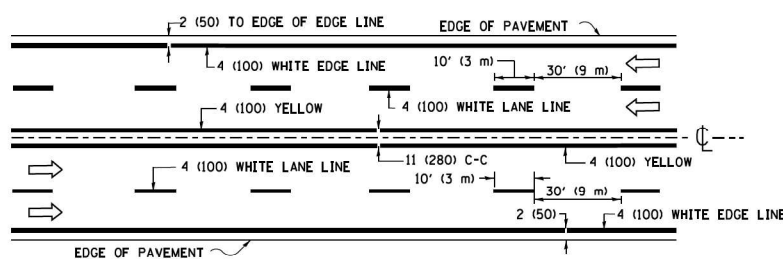
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

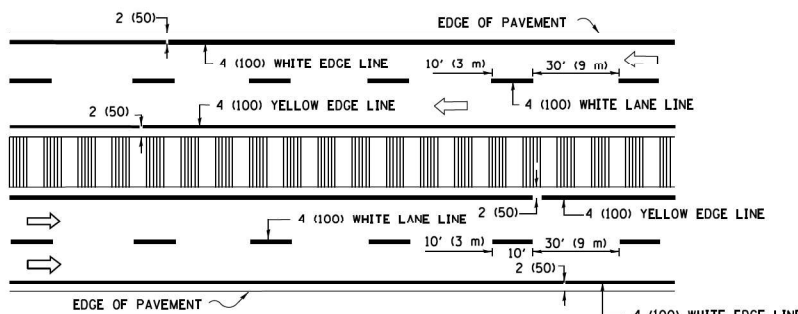
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	45
CONTRACT NO. 62T07				
TC-11	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY

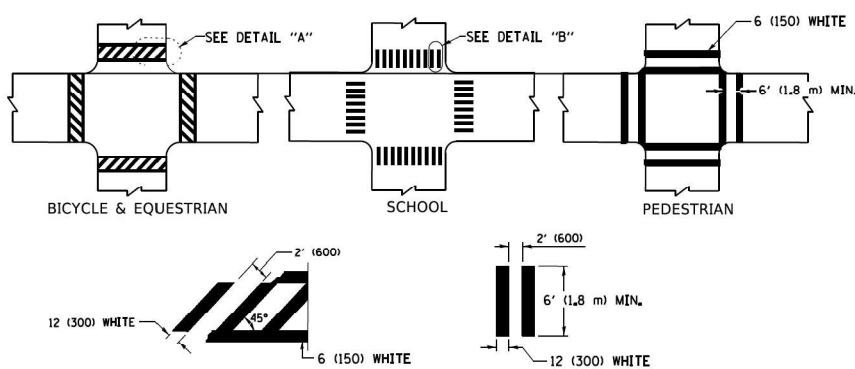


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

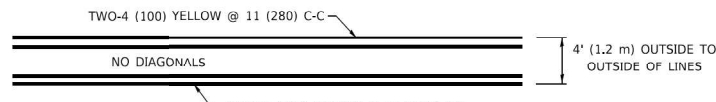


DETAIL "A"

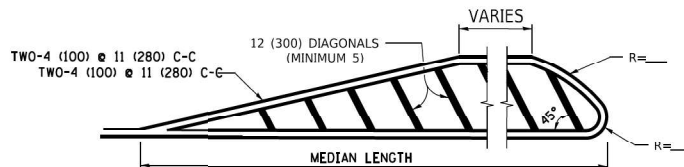
DETAIL "B"

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

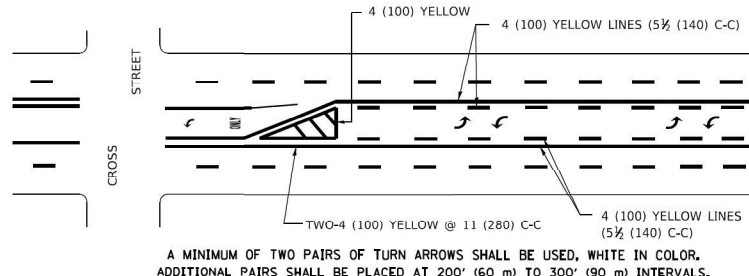


4' (1.2 m) WIDE MEDIANS ONLY

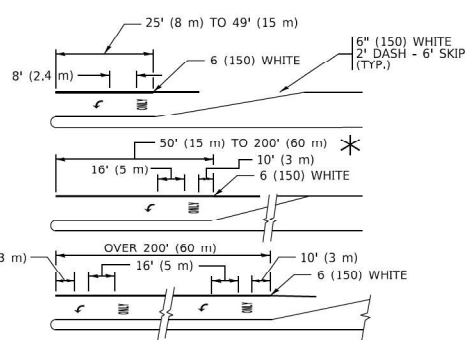


MEDIANS OVER 4' (1.2 m) WIDE

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



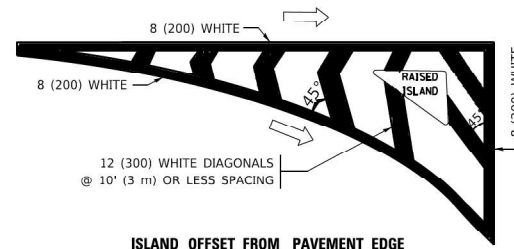
**MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING**



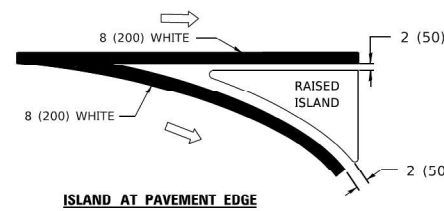
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

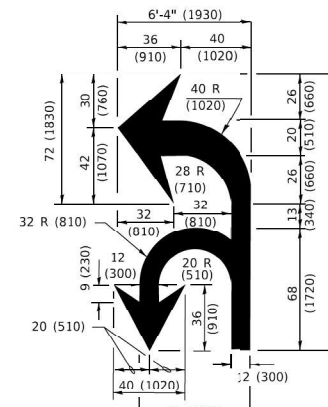


ISLAND OFFSET FROM PAVEMENT EDGE

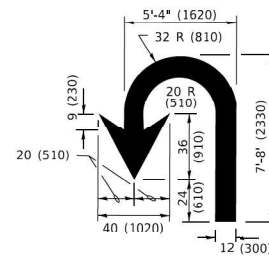


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW-TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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USER NAME = Zach.Tanner	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
PLOT SCALE = 0.16666833' / in.	DRAWN - C. JUCIUS 07-01-13	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 6/14/2024	CHECKED -	REVISED - C. JUCIUS 04-12-16
	DATE - 03/19/1990	

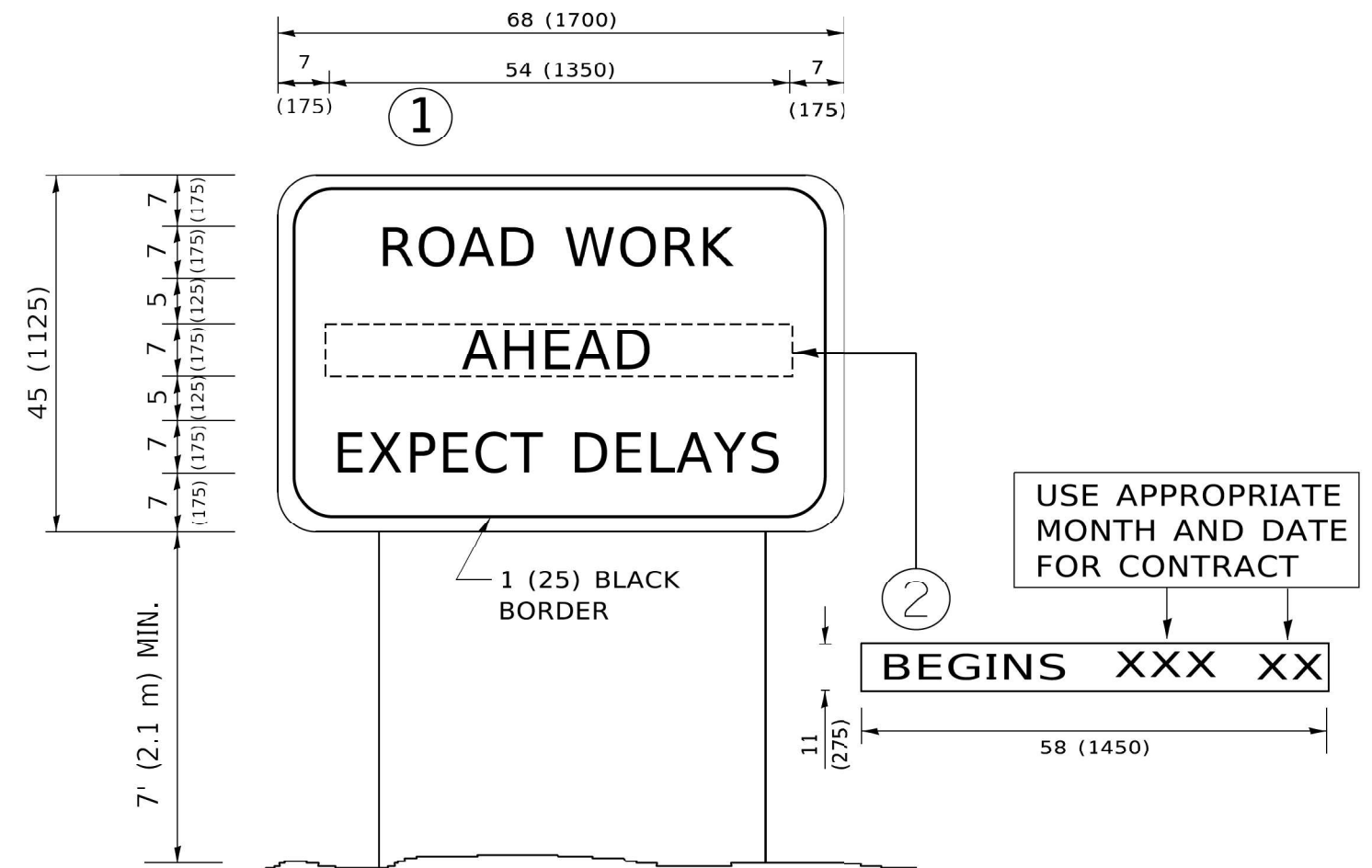
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	46
CONTRACT NO. 62T07				
TC-13	ILLINOIS	FED. AID PROJECT		

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NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

Michael Baker

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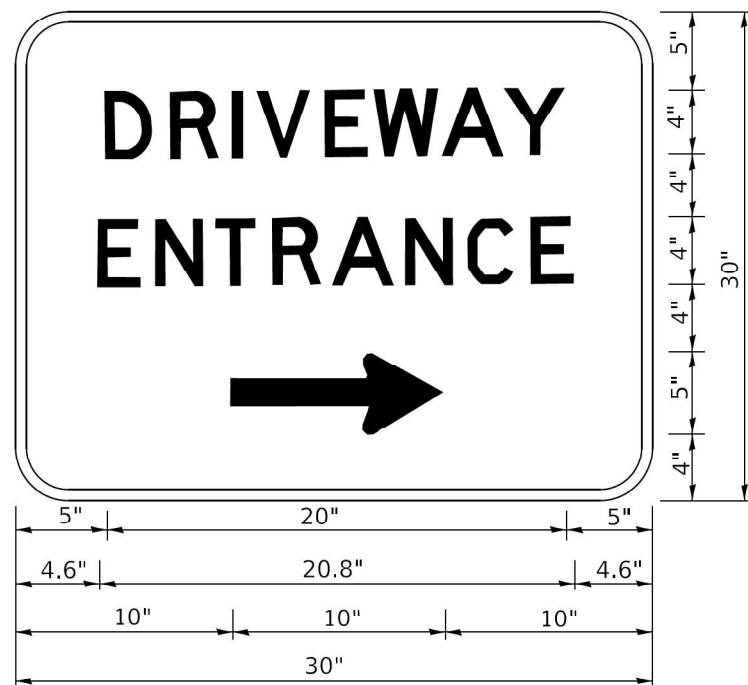
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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT DATE = 6/14/2024	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
 INFORMATION SIGN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	49
CONTRACT NO. 62T07				
TC-22	ILLINOIS	FED. AID PROJECT		



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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USER NAME = Zach.Tanner	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED -	REVISED -
PLOT DATE = 6/14/2024	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY ENTRANCE
SIGNING

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	FAP 0335 22 BJ	MCHENRY	50	50
CONTRACT NO. 62T07				
TC-26	ILLINOIS	FED. AID PROJECT		