04-26-2019 LETTING ITEM 004

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
840	142B(1&2)BR	WILL	25	1
	ILLINOIS	CONTRACT NO. 60R74		

* 25 + 1 = 26 TOTAL SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 840: IL 50 (GOVERNORS HWY) OVER ROCK CREEK S. OF PAULING RD.
SECTION: 142B(1&2)BR
PROJECT: STP–DUBQ(820)
BRIDGE DECK OVERLAY AND BRIDGE JOINT REPAIR
WILL COUNTY
C–91–207–12

D-91-207-12

LOCATION OF SECTION INDICATED THUS :–

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN WILTON TOWNSHIP

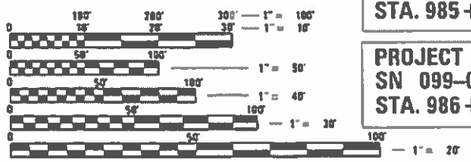
TRAFFIC DATA I–50
EXISTING ADT = 6650 (2017)
POSTED SPEED LIMIT = 45 MPH

PROJECT BEGINS
SN 099–0296
STA. 1048+94.26

PROJECT ENDS
SN 099–0296
STA. 1050+35.74

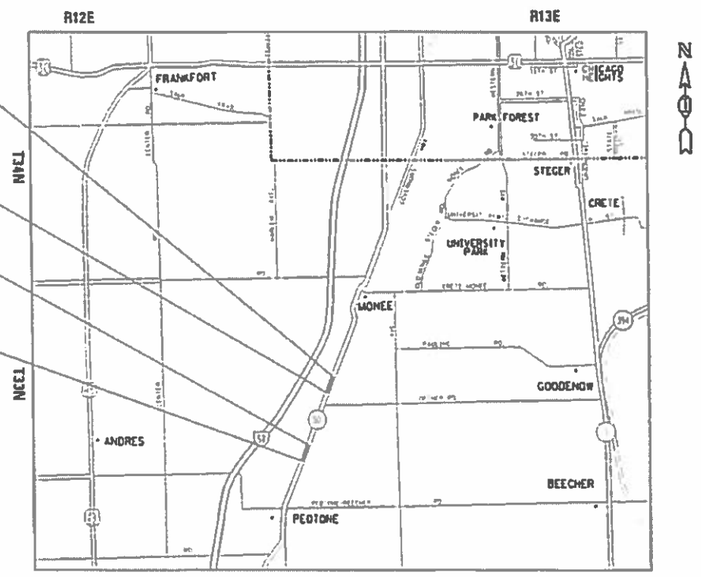
PROJECT BEGINS
SN 099–0297
STA. 985+43

PROJECT ENDS
SN 099–0297
STA. 986+57



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



WILTON TOWNSHIP

GROSS & NET LENGTH = 141.5 FT. = .027 MILE (SN: 099–0296)
GROSS & NET LENGTH = 114.0 FT. = .022 MILE (SN: 099–0297)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 25 20 19
Anthony A. Quigley /MB
REGIONAL ENGINEER
March 22 20 19
cc C.A. C
ENGINEER OF DESIGN AND ENVIRONMENT
March 22 20 19
Paul T. C
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER: J. ALAIN MIDY, PE (847) 221–3056
PROJECT MANAGER: FAWAD AQUEEL, PE, PTOE (847) 705–4247

CONTRACT NO. 60R74

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REV. - MS

INDEX OF SHEETS

STANDARD NO.	DESCRIPTION
630001-12	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631026-06	TRAFFIC BARRIER TERMINAL, TYPE 5
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS > 45 MPH TO 55 MPH
701431-13	LANE CLOSURE, MULTILANE, UNDIVIDED WITH CROSSOVER, FOR SPEEDS > 45 MPH TO 55 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER

MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE USES	**VOIDS @ Ndes**	
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 1¾"	4% AT 70 GYR.	**QC/QA**
HOT-MIX ASPHALT SHOULDER		
HMA SHOULDER (HMA BINDER IL-19mm); 10"	4% AT 70 GYR.	**QC/QA**
PATCHING		
CLASS D PATCHES (HMA BINDER, IL-19.0)	4% AT 70 GYR.	**QC/QA**
QMP Designation: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP)		

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN

NOTE 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 DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE LOCAL MUNICIPALITY
2. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE LOCAL MUNICIPALITY
4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTRAL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE INSTALLATION OF THE TEMPORARY TRAFFIC CONTROL DEVICES.
7. WHEN ARTIFICIAL LIGHT IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
8. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES), ALL EXISTING PAVEMENT MARKING LINES, SYMBOLS, AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING EXACT LOCATIONS OF ALL STRIPING AND MARKERS SHALL BE AS DIRECTED BY THE ENGINEER.
9. THE RESIDENT ENGINEER SHALL CONTACT ERIC CAMPOS, TRAFFIC FIELD ENGINEER VIA E-MAIL AT ERIC.CAMPOS@ILLINOIS.GOV. A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENTMARKINGS.
10. THE RESIDENT ENGINEER SHALL CONTACT ERIC CAMPOS, TRAFFIC FIELD ENGINEER VIA E-MAIL AT ERIC.CAMPOS@ILLINOIS.GOV. A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
11. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS, STATIONS ARE SHOWN FOR REFERENCE ONLY AND ARE APPROXIMATE.
12. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO VARIATIONS FOUND IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONSAND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. ANY ADJUSTMENTS PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER. 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 QUALITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE.
13. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECT BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
14. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ASSURE THAT NO DEBRIS FALLS INTO THE WATERWAY OR ONTO THE PAVEMENTS BELOW THE STRUCTURE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE ASSOCIATED. PAYMENTS.

REV. - MS

USER NAME = abebawa	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/5/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	2
		CONTRACT NO. 60R74		
		ILLINOIS	FED. AID PROJECT	

	SUMMARY OF QUANTITIES		URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 099-0296 0047	80% FED 20% STATE 099-0297 0047				
20200100	EARTH EXCAVATION	CU YD	17	17					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	125	125					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SQ YD	278	278					
	JOINT								
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D",	TON	27	27					
	N70								
42001300	PROTECTIVE COAT	SQ YD	171	128	43				
44201781	CLASS D PATCHES, TYPE III, 11 INCH	SQ YD	37.7	37.7					
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	60	60					
50102400	CONCRETE REMOVAL	CU YD	13.6	13.6					
50300255	CONCRETE SUPERSTRUCTURE	CU YD	15.0	15.0					
50300260	BRIDGE DECK GROOVING	SQ YD	792	792					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2260	2260					
50800515	BAR SPLICERS	EACH	12	12					
52000110	PREFORMED JOINT STRIP SEAL	FOOT	178	178					
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6	FOOT	430	225	205				
	FOOT POSTS								

	SUMMARY OF QUANTITIES		URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 099-0296 0047	80% FED 20% STATE 099-0297 0047				
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE I	EACH	1		1				
	(SPECIAL) TANGENT								
63200310	GUARDRAIL REMOVAL	FOOT	150	150					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3				
67100100	MOBILIZATION	L SUM	1	0.5	0.5				
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	16	8	8				
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	180	90	90				
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	83340	53280	30060				
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1100	600	500				
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1050	567	483				
70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL,	FOOT	25	25					
	TYPE A								
70500655	TEMPORARY TRAFFIC BARRIER TERMINAL,	EACH	2	2					
	TYPE 5								
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-	EACH	4	2	2				
	REDIRECTIVE), TEST LEVEL 3								

* SPECIALTY ITEM

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	PLOT DATE = 2/5/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	3
		CONTRACT NO. 60R74		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

	SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 099-0296 0047	80% FED 20% STATE 099-0297 0047				
	70600350	IMPACT ATTENUATORS, RELOCATE (NON-	EACH	4	2	2				
		REDIRECTIVE), TEST LEVEL 3								
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2					
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	48491	26185	22306				
		4"								
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE	FOOT	1143	618	525				
		4"								
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	180	98	82				
*	78100300	REPLACEMENT REFLECTOR	EACH	1618	874	744				
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8					
*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	88	48	40				
	78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	30	16	14				
		REMOVAL								
	X0327980	PAVEMENT MARKING REMOVAL - WATER	SQ FT	16544	8934	7610				
		BLASTING								
	X7010216	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	0.5	0.5				
	X2020110	GRADING AND SHAPING SHOULDERS	UNIT	5	3	2				
		(SPECIAL)								
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	27779	15001	12778				
		* SPECIALTY ITEM								

	SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 099-0296 0047	80% FED 20% STATE 099-0297 0047				
	X7050167	TEMPORARY TRAFFIC BARRIER TERMINAL,	EACH	2	2					
		TYPE 1, SPECIAL (TANGENT)								
	Z0006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2	SQ YD	930	930					
		1/2 INCHES								
	Z0012102	CONCRETE BRIDGE DECK SCARIFICATION 3/8	SQ YD	760		760				
		INCH								
	Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	930	930					
	Z0012193	BRIDGE DECK THIN POLYMER OVERLAY 3/8"	SQ YD	760		760				
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	128	64	64				

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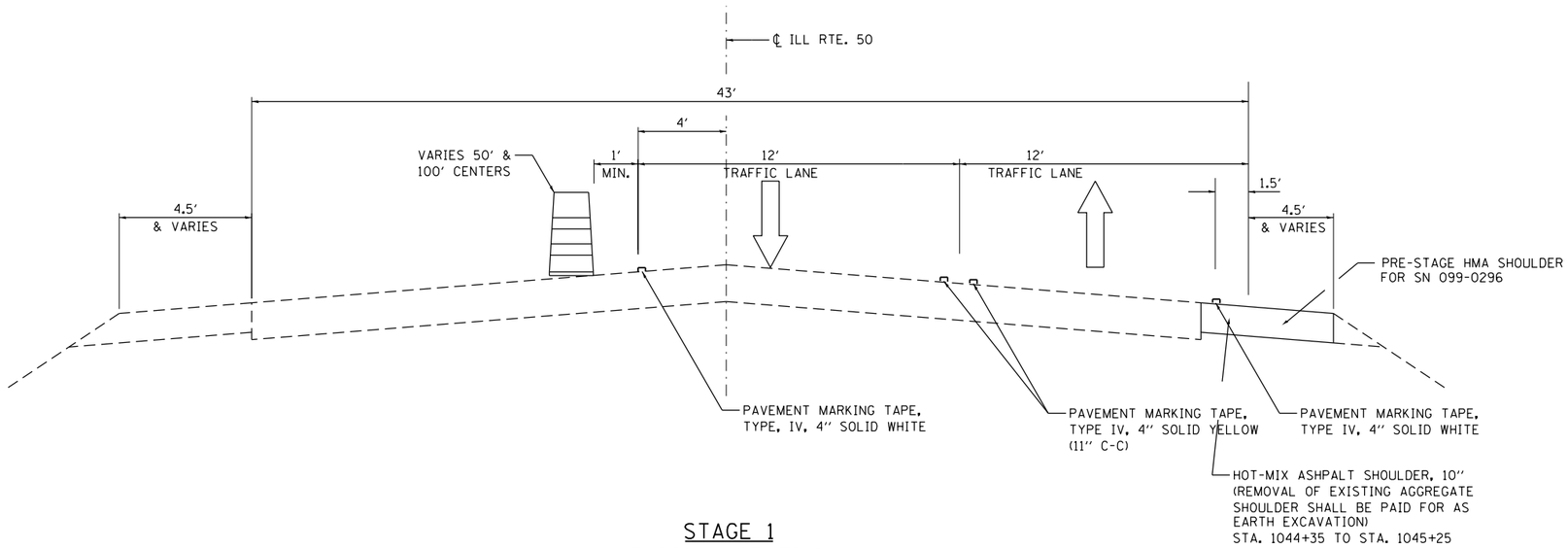
PLOT DATE = 2/5/2019	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

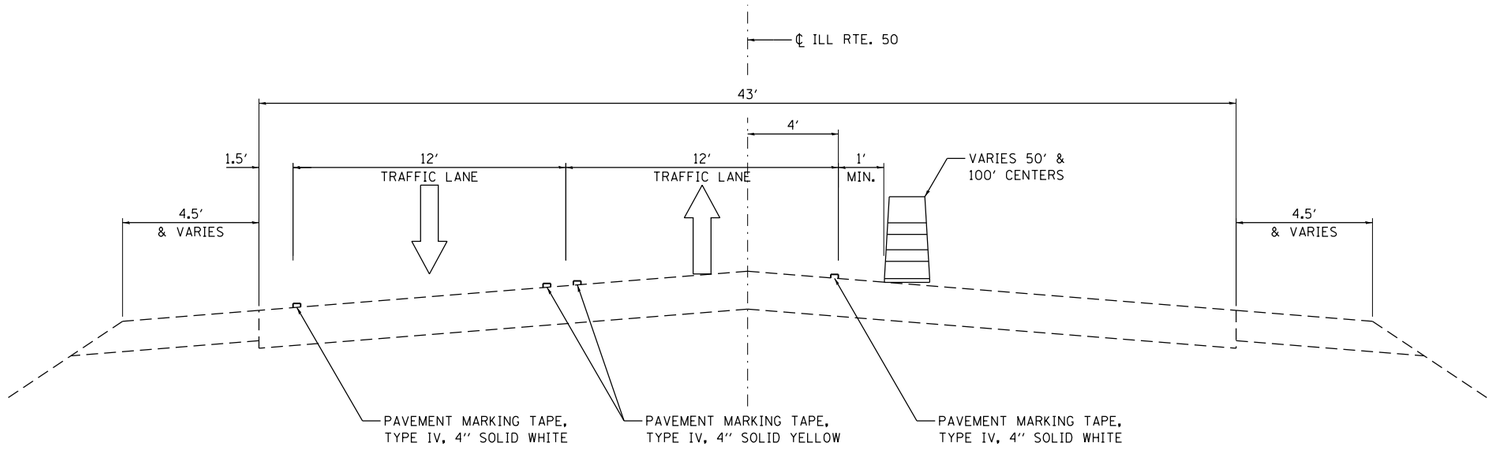
SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	3A
		CONTRACT NO. 60R74		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



STAGE 1
TYPICAL SECTION

STA. 978+00 TO STA. 984+75
STA. 987+25 TO STA. 1048+00
STA. 1051+00 TO STA. 1054+40



STAGE 2
TYPICAL SECTION

STA. 976+45 TO STA. 984+75
STA. 987+25 TO STA. 1048+00
STA. 1051+00 TO STA. 1054+90

PRE-STAGE

CONSTRUCTION:
- SN: 099-0296 AND SN 099-0297 -
  PROP. NB HMA SHOULDER FROM APPROX. STA. 1044+35 TO STA. 1045+25

MAINTENANCE OF TRAFFIC:
CLOSE OUTSIDE NORTHBOUND LANE USING IDOT STANDARD 701422-04.

STAGE 1

CONSTRUCTION:
- SN: 099-0296 - HYDRO SCARIFY 3/4″ AND PLACEMENT OF LATEX OVERLAY 2-1/2″ ON THE BRIDGE DECK; SEAL PARAPETS, ABUTMENT BACK WALLS AND CAPS; AND PLACEMENT OF HMA OVERLAY ON APPROACHES WEST OF THE CENTERLINE OF IL 50.
- SN: 099-0297 - SCARIFY 3/8″; PLACE THIN 3/8″ CONCRETE POLYMER OVERLAY.

- SN: 099-0296 AND SN 099-0297 -
  INSTALL TEMPORARY GUARDRAIL. STATION 984+95.83 TO 985+73.0, STATION 1048+5.73 TO 1049+82.9.

MAINTENANCE OF TRAFFIC:
MAINTAIN 1-LANE OF TRAFFIC IN EACH DIRECTION UTILIZING THE TWO NORTHBOUND LANES OF IL 50 AS DETAILED IN THE STAGE 1 MAINTENANCE OF TRAFFIC TYPICAL SECTION, STAGE 1 MAINTENANCE OF TRAFFIC PLANS AND STANDARD 701431-07.

STAGE 2

CONSTRUCTION:
- SN: 099-0296 - HYDRO SCARIFY 3/4″ AND PLACEMENT OF LATEX OVERLAY 2-1/2″ ON THE BRIDGE DECK; SEAL PARAPETS, ABUTMENT BACK WALLS AND CAPS; AND PLACEMENT OF HMA OVERLAY ON APPROACHES EAST OF THE CENTERLINE OF IL 50.
- SN: 099-0297 - SCARIFY 3/8″; PLACE THIN 3/8″ CONCRETE POLYMER OVERLAY.

MAINTENANCE OF TRAFFIC:
MAINTAIN 1-LANE OF TRAFFIC IN EACH DIRECTION UTILIZING THE TWO SOUTHBOUND LANES OF IL 50 AS DETAILED IN THE STAGE 2 MAINTENANCE OF TRAFFIC TYPICAL SECTION, STAGE 2 MAINTENANCE OF TRAFFIC PLANS AND STANDARD 701431-07.

STAGE 3

CONSTRUCTION:
- REMOVE TEMPORARY GUARDRAIL, STATION 984+95.83 TO 985+73.0, STATION 1048+5.73 TO 1049+82.9.

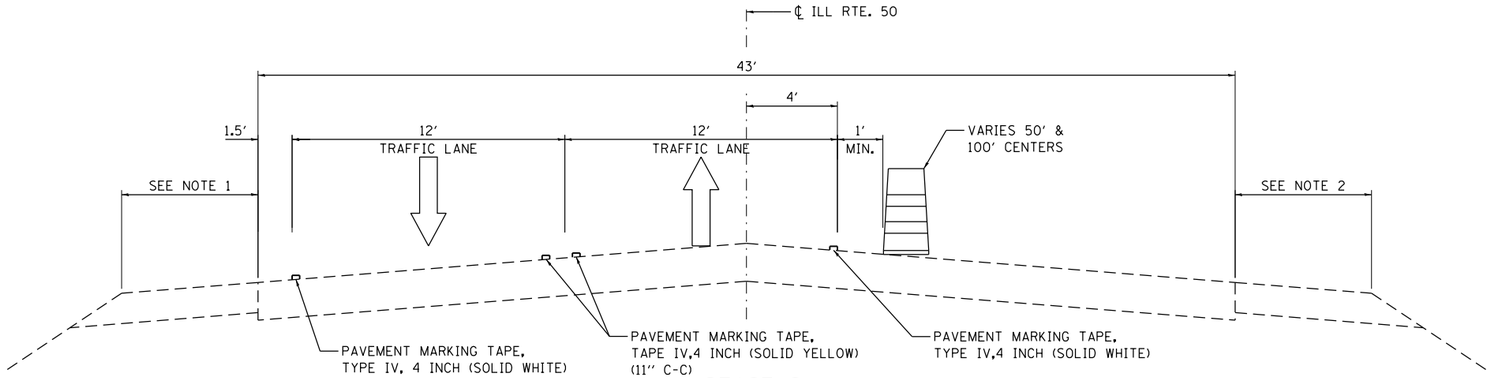
MAINTENANCE OF TRAFFIC:
CLOSE OUTSIDE NORTHBOUND LANE USING IDOT STANDARD 701422-04.

NOTE:

SEE STRUCTURAL PLANS FOR STAGE TYPICAL SECTIONS AT BRIDGES.

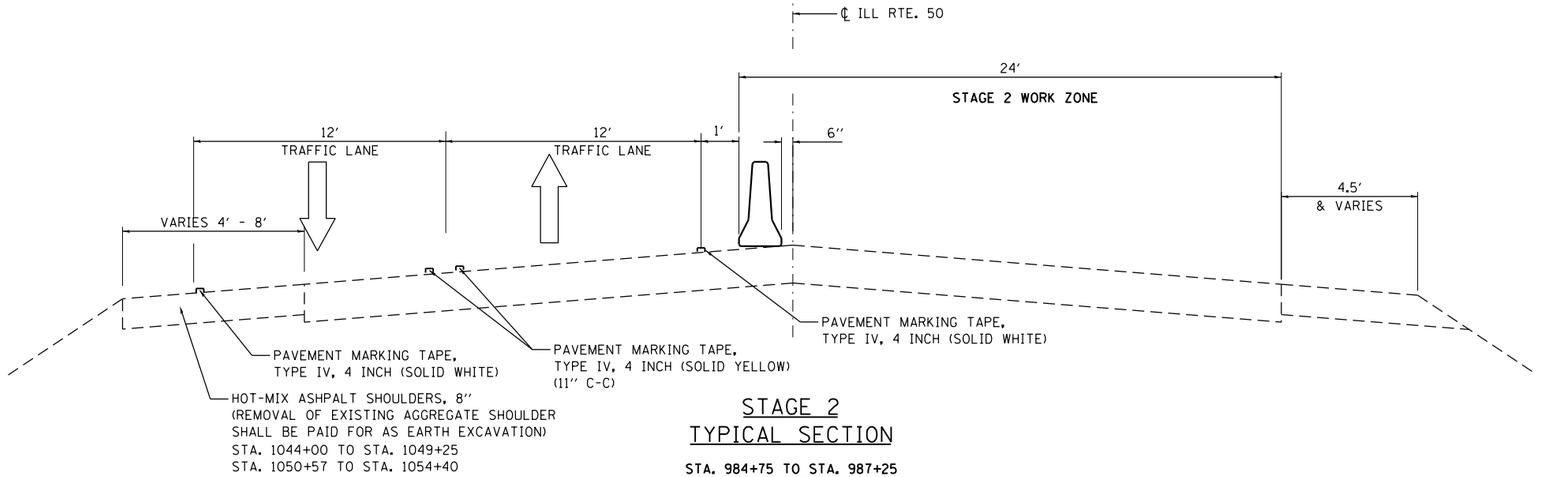
	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC – TYPICAL SECTIONS IL 50 OVER ROCK CREEK	
	CHECKED	REVISED			
	DRAWN	REVISED			
PLOT DATE = 2/5/2019	CHECKED	REVISED		SHEET NO. 1 OF 1 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	4
		CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			



STAGE 2
TYPICAL SECTION

STA. 976+45 TO STA. 984+75
STA. 987+25 TO STA. 1048+00
STA. 1051+00 TO STA. 1054+90



STAGE 2
TYPICAL SECTION

STA. 984+75 TO STA. 987+25
STA. 1048+00 TO STA. 1051+00

PRE–STAGE

CONSTRUCTION:
- SN: 099-0296 AND SN 099-0297 -
  PROP. NB HMA SHOULDER FROM APPROX. STA. 1044+35 TO STA. 1045+25

MAINTENANCE OF TRAFFIC:
CLOSE OUTSIDE NORTHBOUND LANE USING IDOT STANDARD 701422-04.

STAGE 1

CONSTRUCTION:
- SN: 099-0296 - HYDRO SCARIFY 3/4′′ AND PLACEMENT OF LATEX OVERLAY 2-1/2′′ ON THE BRIDGE DECK; SEAL PARAPETS, ABUTMENT BACK WALLS AND CAPS; AND PLACEMENT OF HMA OVERLAY ON APPROACHES WEST OF THE CENTERLINE OF IL 50.
- SN: 099-0297 - SCARIFY 3/8′′; PLACE THIN 3/8′′ CONCRETE POLYMER OVERLAY.

- SN: 099-0296 AND SN 099-0297 -
  INSTALL TEMPORARY GUARDRAIL. STATION 984+95.83 TO 985+73.0,
  STATION 1048+5.73 TO 1049+82.9.

MAINTENANCE OF TRAFFIC:
MAINTAIN 1-LANE OF TRAFFIC IN EACH DIRECTION UTILIZING THE TWO NORTHBOUND LANES OF IL 50 AS DETAILED IN THE STAGE 1 MAINTENANCE OF TRAFFIC TYPICAL SECTION, STAGE 1 MAINTENANCE OF TRAFFIC PLANS AND STANDARD 701431-07.

STAGE 2

CONSTRUCTION:
- SN: 099-0296 - HYDRO SCARIFY 3/4′′ AND PLACEMENT OF LATEX OVERLAY 2-1/2′′ ON THE BRIDGE DECK; SEAL PARAPETS, ABUTMENT BACK WALLS AND CAPS; AND PLACEMENT OF HMA OVERLAY ON APPROACHES EAST OF THE CENTERLINE OF IL 50.
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MAINTENANCE OF TRAFFIC:
MAINTAIN 1-LANE OF TRAFFIC IN EACH DIRECTION UTILIZING THE TWO SOUTHBOUND LANES OF IL 50 AS DETAILED IN THE STAGE 2 MAINTENANCE OF TRAFFIC TYPICAL SECTION, STAGE 2 MAINTENANCE OF TRAFFIC PLANS AND STANDARD 701431-07.

STAGE 3

CONSTRUCTION:
- REMOVE TEMPORARY GUARDRAIL, STATION 984+95.83 TO 985+73.0,
  STATION 1048+5.73 TO 1049+82.9.

MAINTENANCE OF TRAFFIC:
CLOSE OUTSIDE NORTHBOUND LANE USING IDOT STANDARD 701422-04.

NOTE:

SEE STRUCTURAL PLANS FOR STAGE TYPICAL SECTIONS AT BRIDGES.

	DESIGNED	REVISED	
	CHECKED	REVISED	
	DRAWN	REVISED	
PLOT DATE = 2/5/2019	CHECKED	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – TYPICAL SECTIONS
IL 50 OVER ROCK CREEK
SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	5
		CONTRACT NO. 60R74		
	ILLINOIS	FED. AID PROJECT		

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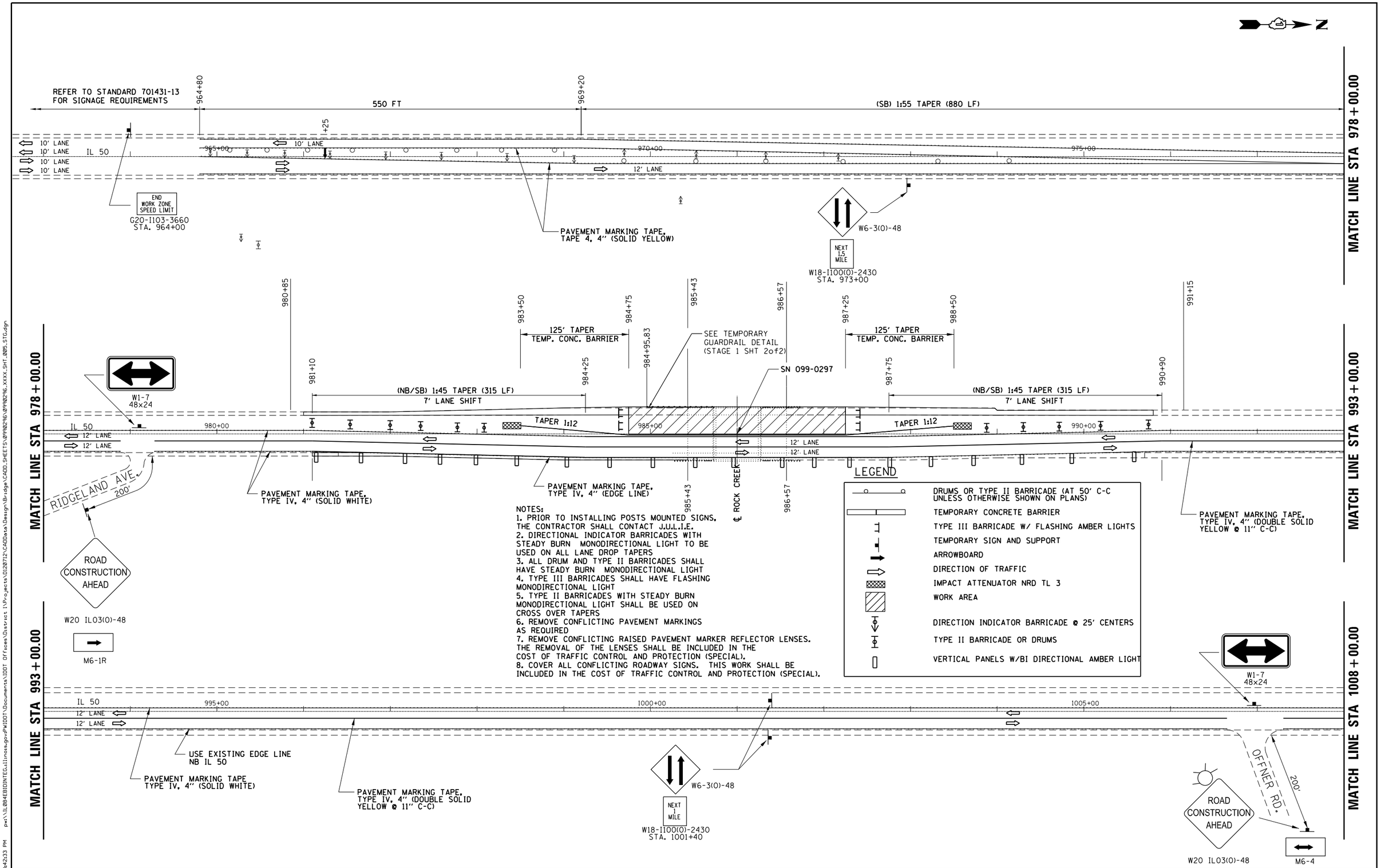

	DESIGNED	REVISED	
	CHECKED	REVISED	
	DRAWN	REVISED	
PLOT DATE = 2/5/2019	CHECKED	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 1
IL 50 OVER ROCK CREEK

SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	6
		CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			

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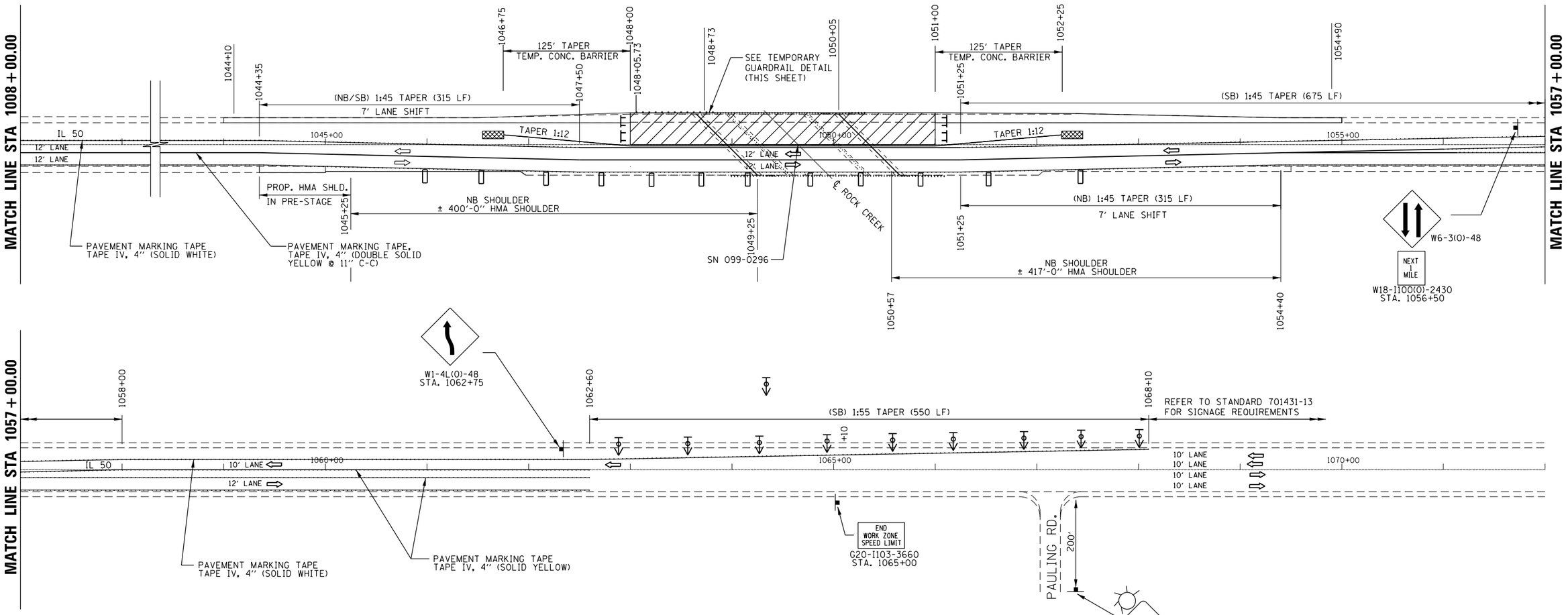

DRUMS OR TYPE II BARRICADE (AT 50' C-C UNLESS OTHERWISE SHOWN ON PLANS)

TEMPORARY CONCRETE BARRIER

TYPE III BARRICADE W/ FLASHING AMBER LIGHTS

TEMPORARY SIGN AND SUPPORT

ARROWBOARD

DIRECTION OF TRAFFIC

IMPACT ATTENUATOR NRD TL 3

WORK AREA

DIRECTION INDICATOR BARRICADE @ 25' CENTERS

TYPE II BARRICADE OR DRUMS

VERTICAL PANELS W/BI DIRECTIONAL AMBER LIGHT

NOTES:
1. PRIOR TO INSTALLING POSTS MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. DIRECTIONAL INDICATOR BARRICADES WITH STEADY BURN MONODIRECTIONAL LIGHT TO BE USED ON ALL LANE DROP TAPERS
3. ALL DRUM AND TYPE II BARRICADES SHALL HAVE STEADY BURN MONODIRECTIONAL LIGHT
4. TYPE III BARRICADES SHALL HAVE FLASHING MONODIRECTIONAL LIGHT
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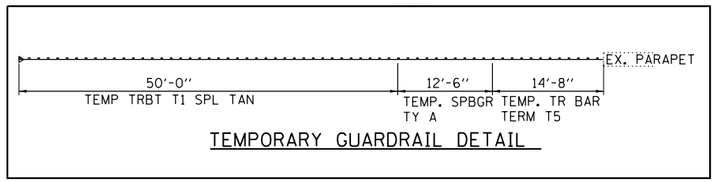
6. REMOVE CONFLICTING PAVEMENT MARKINGS AS REQUIRED
7. REMOVE CONFLICTING RAISED PAVEMENT MARKER REFLECTOR LENSES. THE REMOVAL OF THE LENSES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
8. COVER ALL CONFLICTING ROADWAY SIGNS. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 1
IL 50 OVER ROCK CREEK

SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	7
		CONTRACT NO. 60R74		
	ILLINOIS	FED. AID PROJECT		

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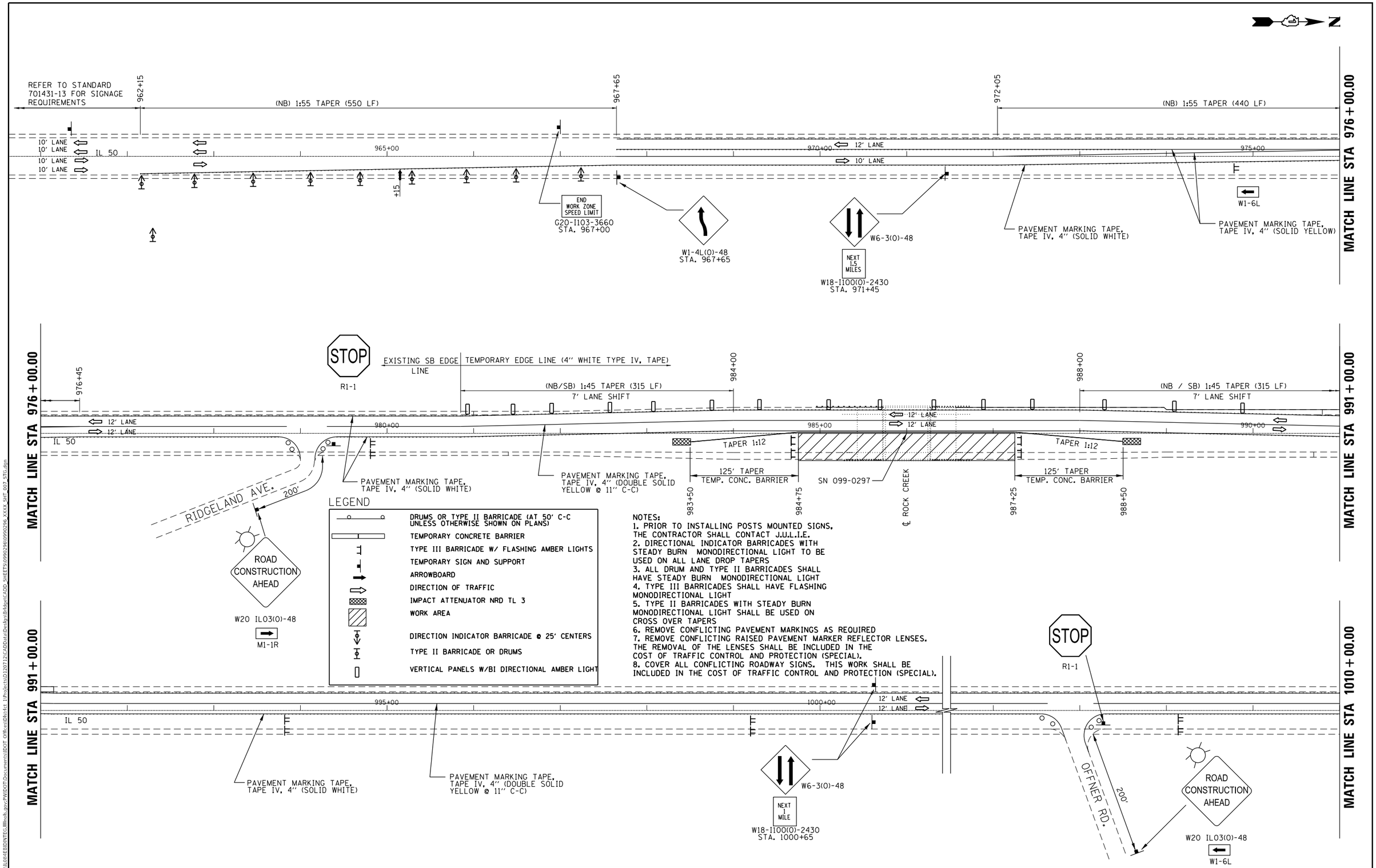

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PLOT DATE = 2/5/2019	CHECKED	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 2
IL 50 OVER ROCK CREEK
SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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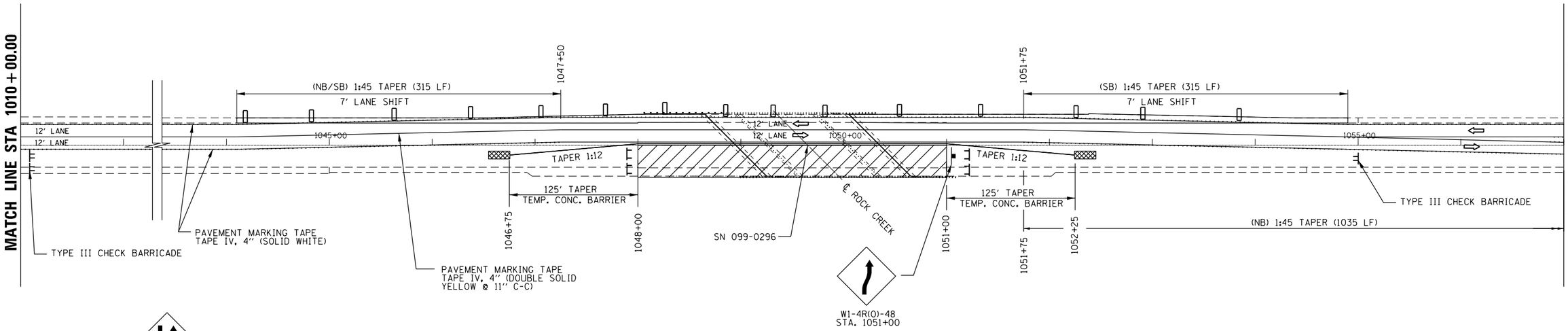
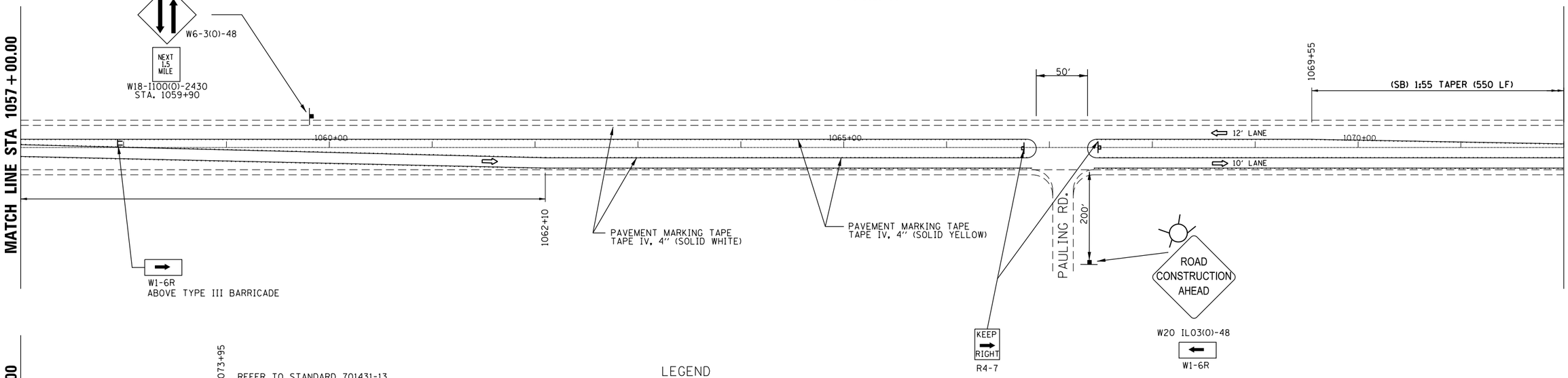
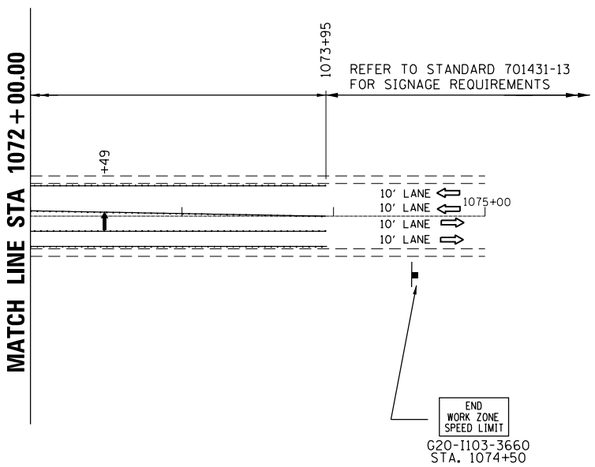
		CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			







LEGEND

- DRUMS OR TYPE II BARRICADE (AT 50' C-C UNLESS OTHERWISE SHOWN ON PLANS)
- TEMPORARY CONCRETE BARRIER
- TYPE III BARRICADE W/ FLASHING AMBER LIGHTS
- TEMPORARY SIGN AND SUPPORT
- ARROWBOARD
- DIRECTION OF TRAFFIC
- IMPACT ATTENUATOR NRD TL 3
- WORK AREA
- DIRECTION INDICATOR BARRICADE @ 25' CENTERS
- TYPE II BARRICADE OR DRUMS
- VERTICAL PANELS W/BI DIRECTIONAL AMBER LIGHT

NOTES:
1. PRIOR TO INSTALLING POSTS MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. DIRECTIONAL INDICATOR BARRICADES WITH STEADY BURN MONODIRECTIONAL LIGHT TO BE USED ON ALL LANE DROP TAPERS
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8. COVER ALL CONFLICTING ROADWAY SIGNS. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

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PLOT DATE = 2/5/2019	CHECKED	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE 2
IL 50 OVER ROCK CREEK

SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	9
		CONTRACT NO. 60R74		
		ILLINOIS FED. AID PROJECT		

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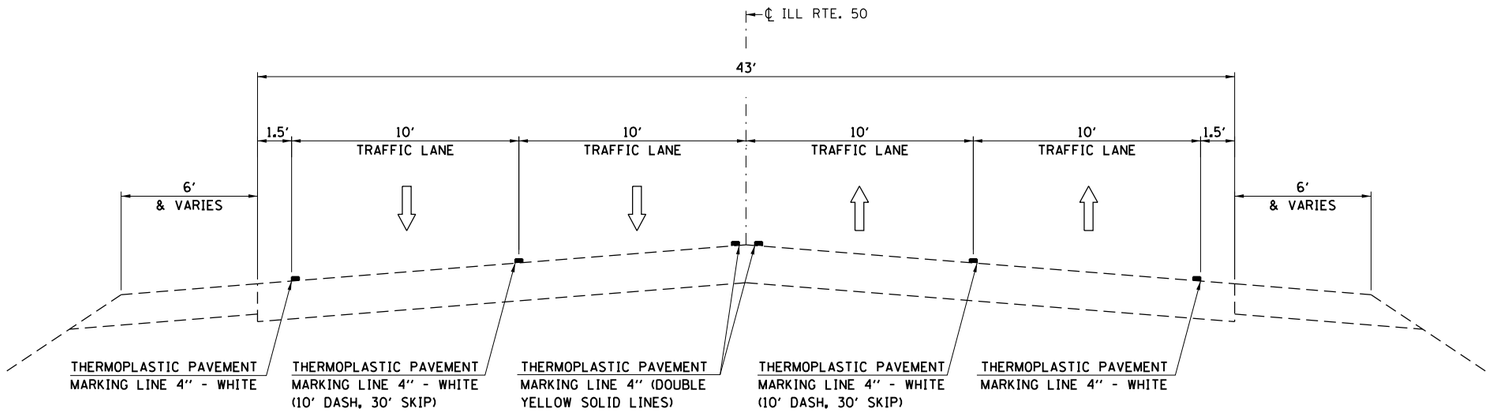

TYPICAL SECTION

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC EXCEPT OVER SN 099-0296 & SN 099-0297, WHERE POLYUREA SHALL BE PLACED.
2. REFER TO DISTRICT DETAIL TC-13 & TC-11 FOR ADDITIONAL INFORMATION.
3. INSTALL REPLACEMENT REFLECTORS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN – TYPICAL SECTION
IL 50 OVER ROCK CREEK

SHEET NO. 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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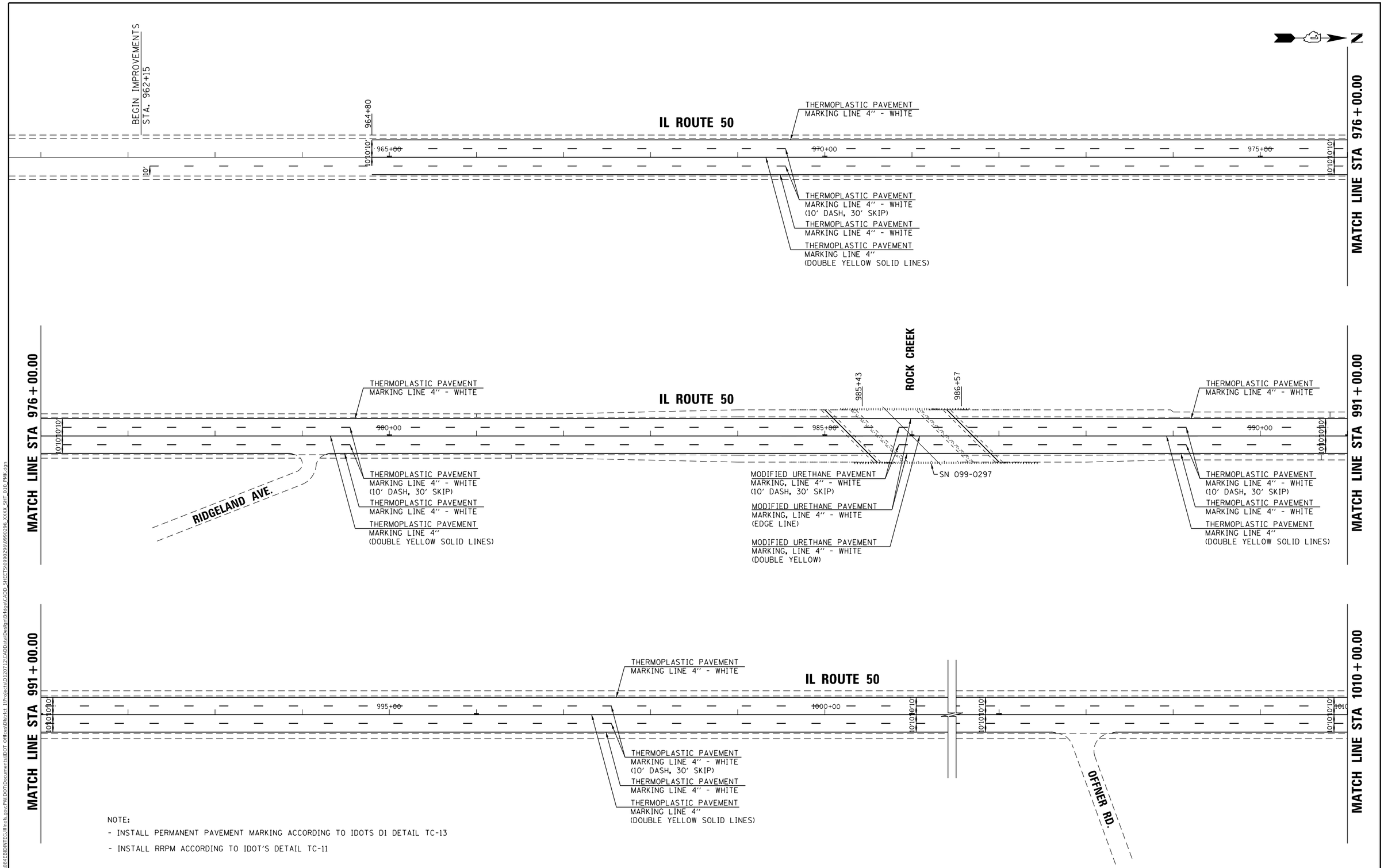
		CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			



NOTE:

- INSTALL PERMANENT PAVEMENT MARKING ACCORDING TO IDOTS D1 DETAIL TC-13
- INSTALL RRPM ACCORDING TO IDOT'S DETAIL TC-11

USER NAME = abebawa	DESIGNED	REVISED
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PLOT DATE = 2/5/2019	CHECKED	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
IL 50 OVER ROCK CREEK

SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	11
		CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			

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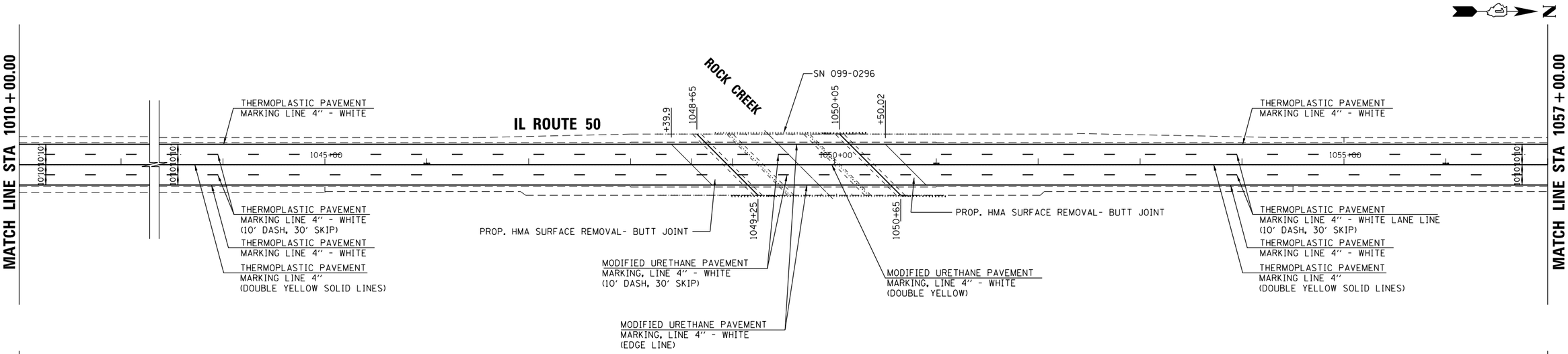

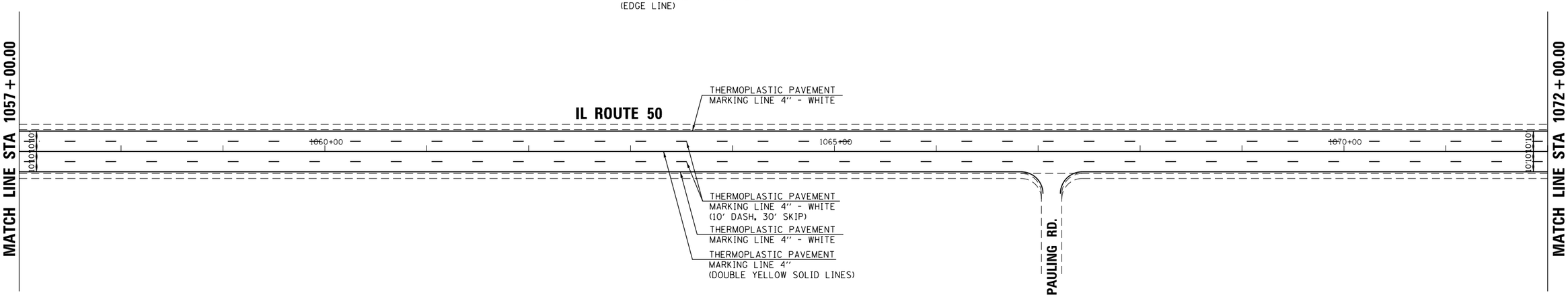

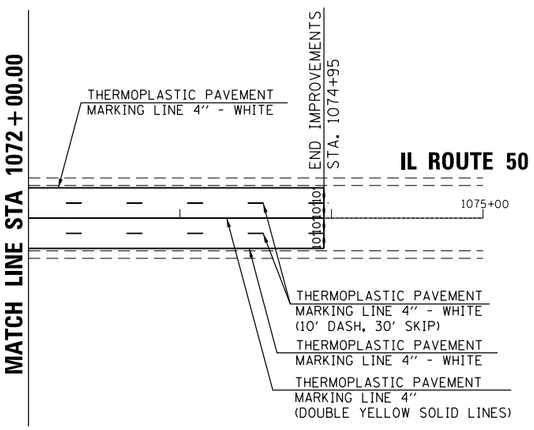

NOTE:

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- INSTALL RRPM ACCORDING TO IDOT'S DETAIL TC-11

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PLOT DATE = 2/5/2019	CHECKED	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
IL 50 OVER ROCK CREEK
SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	12
		CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			

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EXISTING STRUCTURE

Structure No. 099-0296 was built in 1994 as F.A.S. Rte. 2300, Section 142B-2-R. The existing structure is a single span PPC I-Beam superstructure with a 7½" reinforced concrete deck supported on open stub abutments. 81'-5½" bk. to bk. abutments, 63'-2" out to out of deck with a 45° skew.

Stage construction shall be used to maintain traffic during construction.

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

Reinforcement bars designated (E) shall be epoxy coated.

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

Existing reinforcement bars extending in the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Synthetic fibers shall be added to the Bridge Deck Latex Concrete Overlay, see Special Provisions.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Bridge Deck Grooving	Sq. Yd.	792	-	792
Protective Coat	Sq. Yd.	128	-	128
Reinforcement Bars, Epoxy Coated	Pound	2260	-	2260
Bar Splicers	Each	12	-	12
Preformed Joint Strip Seal	Foot	178	-	178
Bridge Deck Latex Concrete Overlay, 2½"	Sq. Yd.	930	-	930
Bridge Deck Scarification ¾"	Sq. Yd.	930	-	930
Concrete Superstructure	Cu. Yd.	15.0	-	15.0
Concrete Removal	Cu. Yd.	13.6	-	13.6

SCOPE OF WORK:

1. Reconstruct deck joints with preformed strip seal joints.
2. Scarify ¾" bridge deck and approaches.
3. Place 2½" latex concrete overlay on bridge deck and approaches.
4. Seal top of new concrete at joints, parapets, abutment backwalls and caps, including overlay.

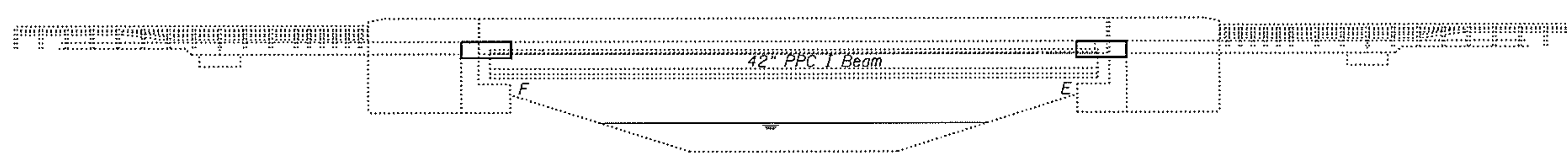
INDEX OF SHEETS

DESIGN SPECIFICATIONS

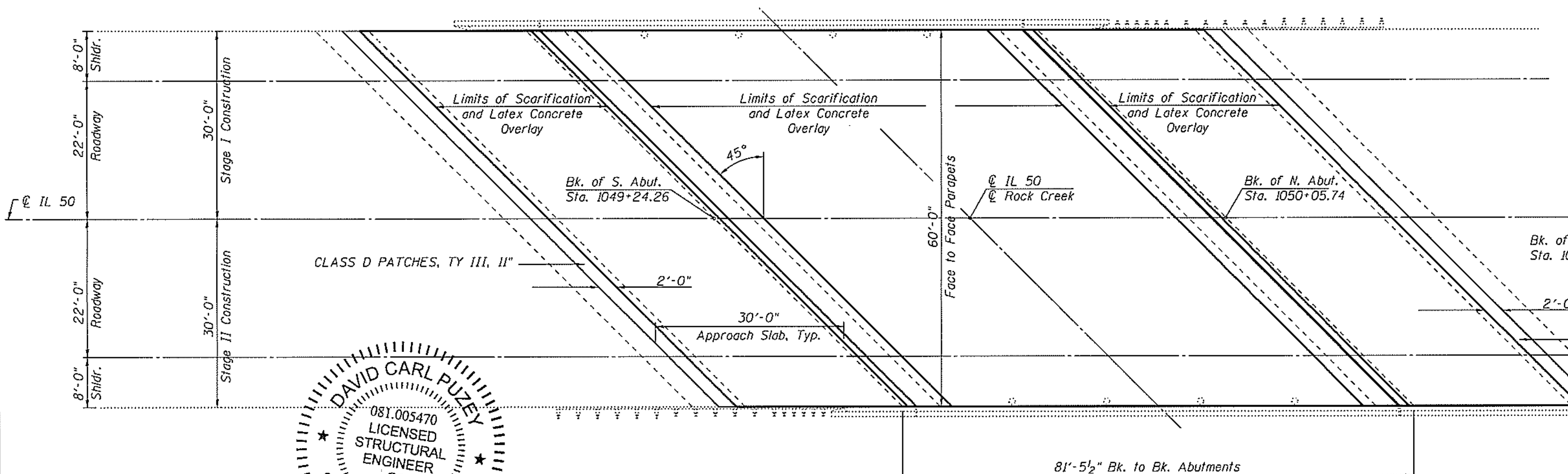
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

LOADING HS 20-44

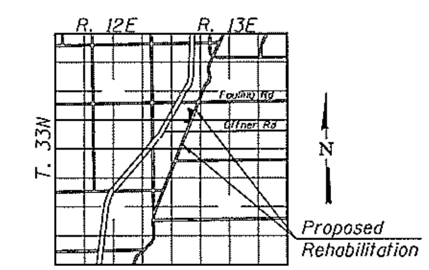
Original Construction



ELEVATION



PLAN



LOCATION SKETCH

DAVID CARL PUZEY
081.005470
LICENSED STRUCTURAL ENGINEER OF
STATE OF ILLINOIS
D. Carl Puzey 3/21/19
Expires 11/30/20

GENERAL PLAN AND ELEVATION
IL 50 OVER ROCK CREEK
FAP RT 840 SEC 142B-2-BR
WILL COUNTY
STATION 1049+65
STRUCTURE NO. 099-0296

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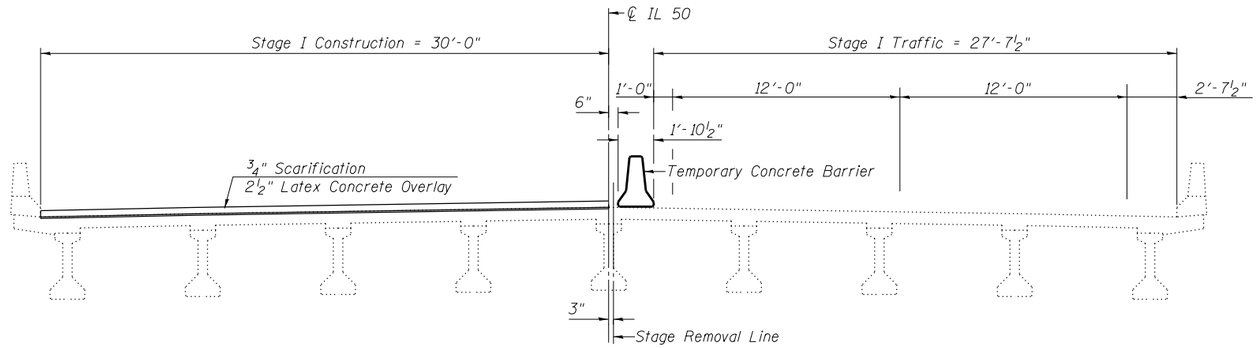
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

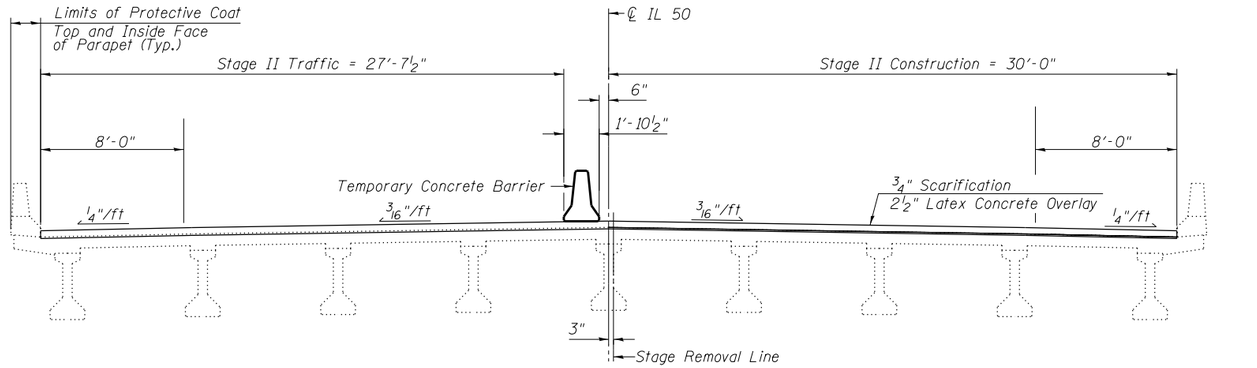
GENERAL PLAN AND ELEVATION
STRUCTURE NO. 099-0296

SHEET NO. 1 OF 7 SHEETS

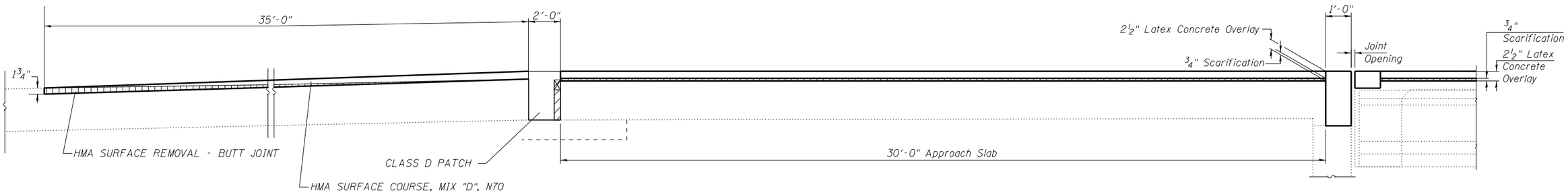
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	13
		CONTRACT NO. 60R74		
		ILLINOIS FED. AID PROJECT		



STAGE I REMOVAL & CONSTRUCTION



STAGE II REMOVAL & CONSTRUCTION



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PLOT DATE = 3/20/2019	CHECKED	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 099-0296
SHEET NO. 2 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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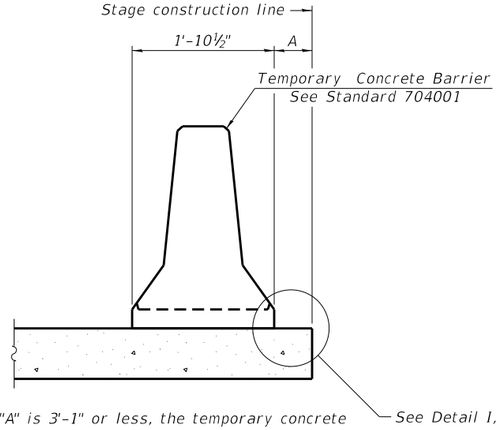
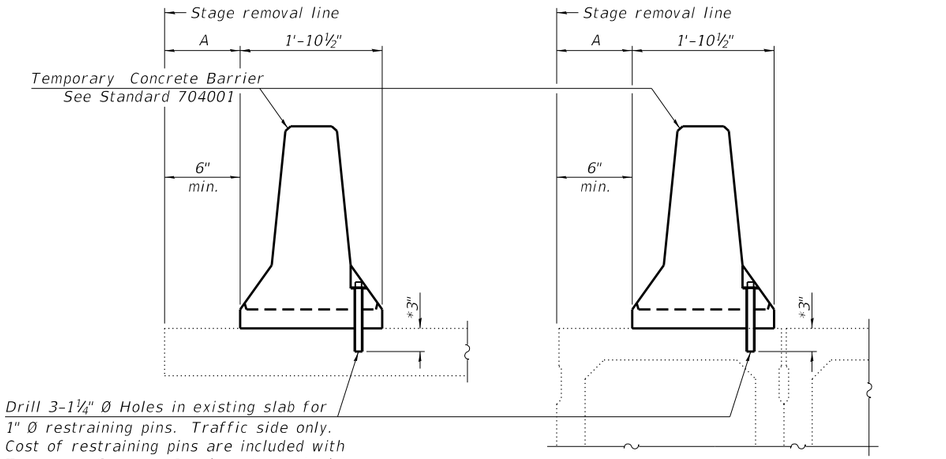
		CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			



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

NEW SLAB OR NEW DECK BEAM

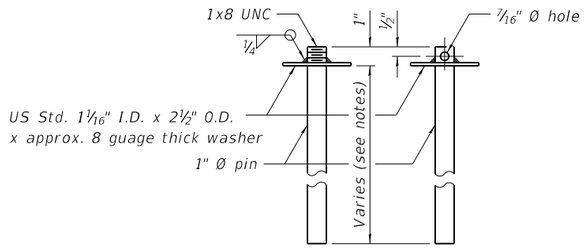


EXISTING SLAB

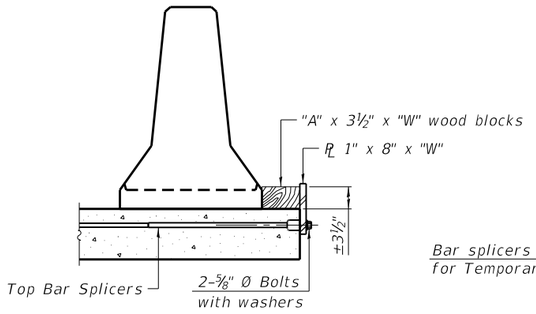
* When hot-mix asphalt wearng surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

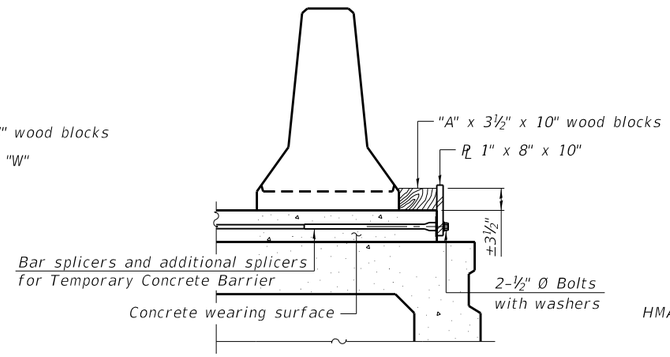
SECTIONS THRU SLAB OR DECK BEAM



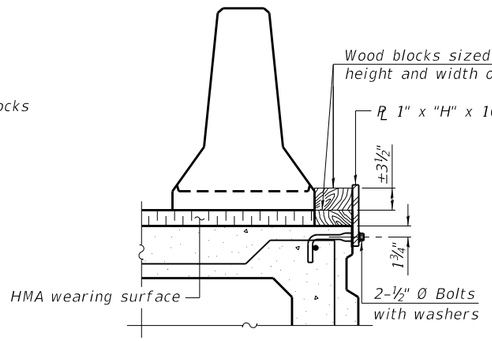
RESTRAINING PIN



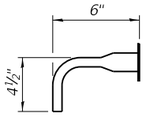
DETAIL I



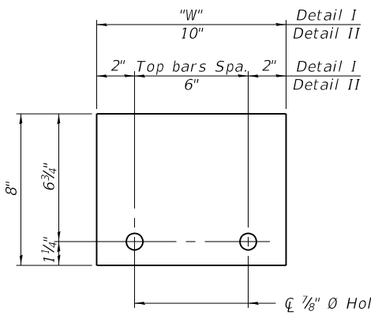
DETAIL II



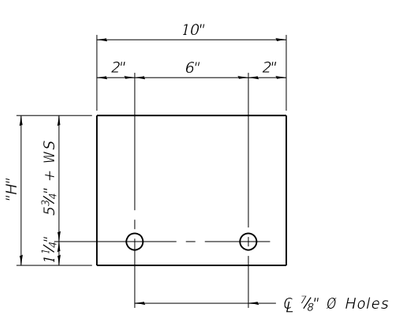
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate ℄ of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than 1½", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27

2-17-2017

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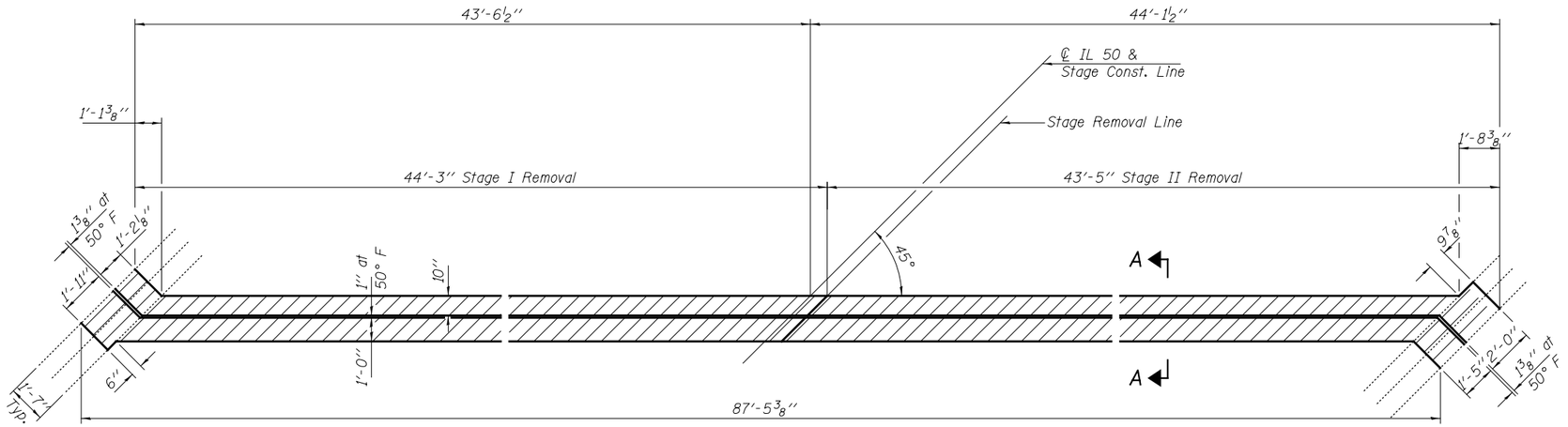
PLOT DATE = 3/11/2019	CHECKED	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

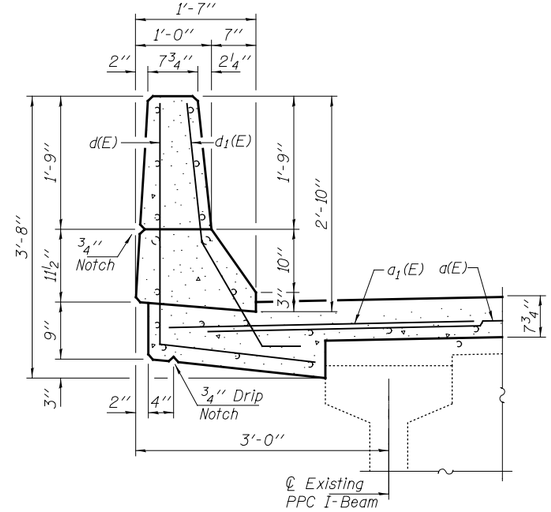
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 099-0296

SHEET NO. 3 OF 7 SHEETS

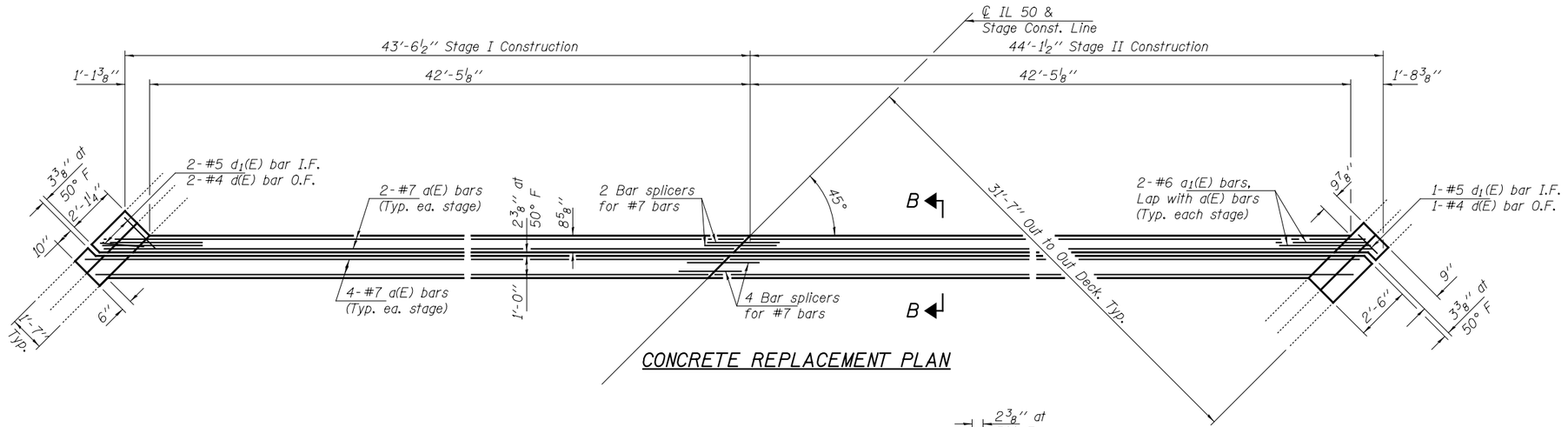
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	15
		CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			



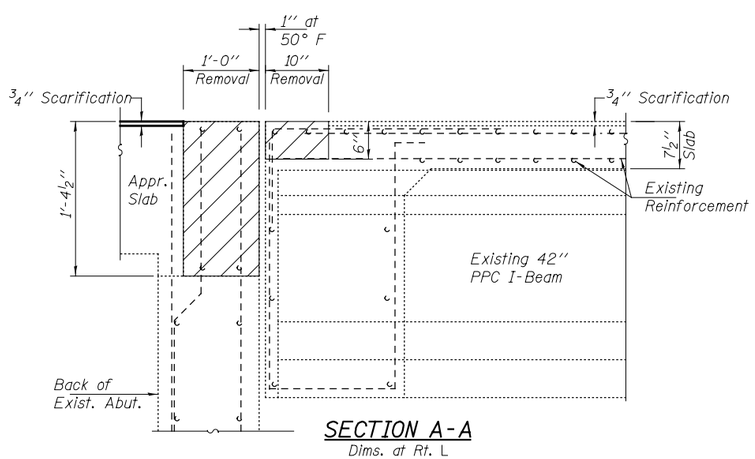
CONCRETE REMOVAL PLAN



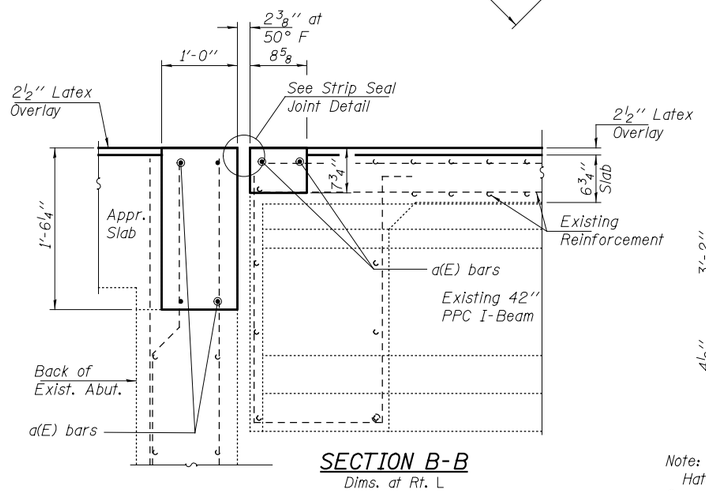
SECTION THRU PARAPET (DECK)



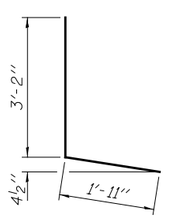
CONCRETE REPLACEMENT PLAN



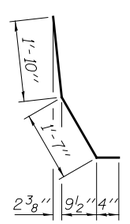
SECTION A-A
Dims. at Rt. L



SECTION B-B
Dims. at Rt. L



BAR d(E)



BAR d1(E)

Note: Hatched areas indicate Concrete Removal.

Note: Existing horizontal bars in parapet and existing longitudinal bars in slab shall remain and be incorporated into the new construction.

The contractor shall use extreme care during concrete removal so as not to damage the PPC-I beams.

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	12	#7	43'-9"	
a1(E)	4	#6	6'-0"	
d(E)	3	#4	5'-1"	
d1(E)	3	#5	4'-9"	
Reinforcement Bars, Epoxy Coated		Pound	1130	
Bar Splicers		Each	6	
Concrete Removal		Cu. Yd.	6.8	
Concrete Superstructure		Cu. Yd.	7.4	

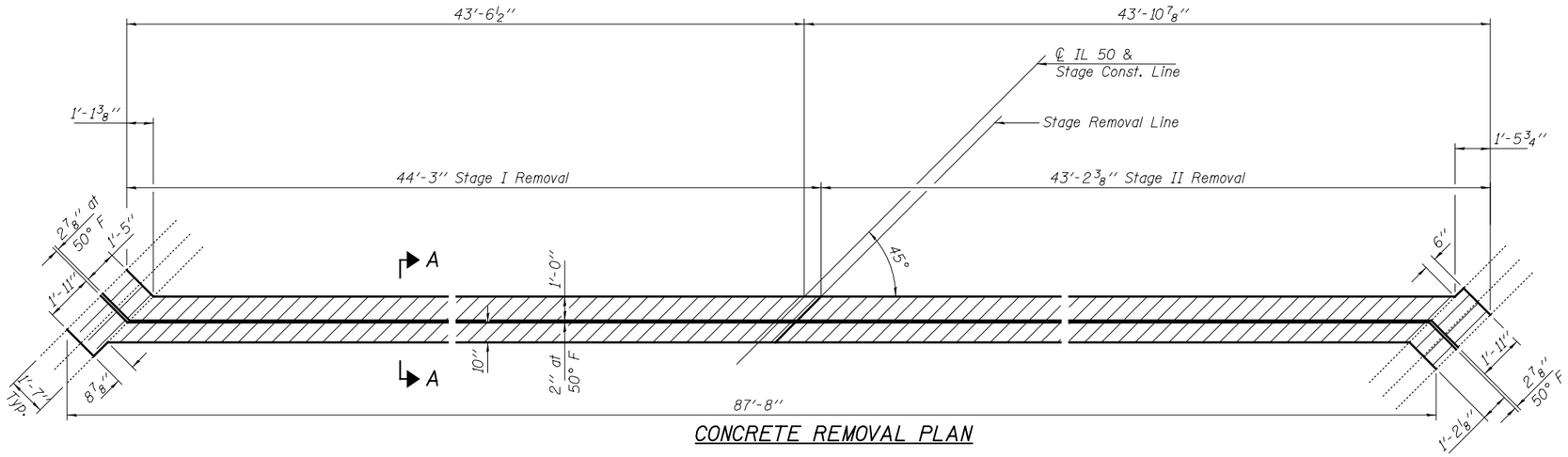
DESIGNED	-	DATE	MARCH 14, 2019
CHECKED	-	REVISED	-
DRAWN	baliva	REVISED	-
CHECKED	-		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

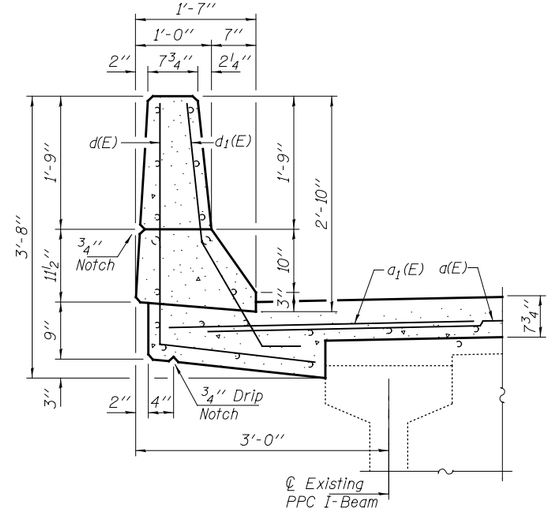
SOUTH ABUTMENT JOINT REPLACEMENT DETAILS
SN 099-0296

SHEET 4 OF 7 SHEETS

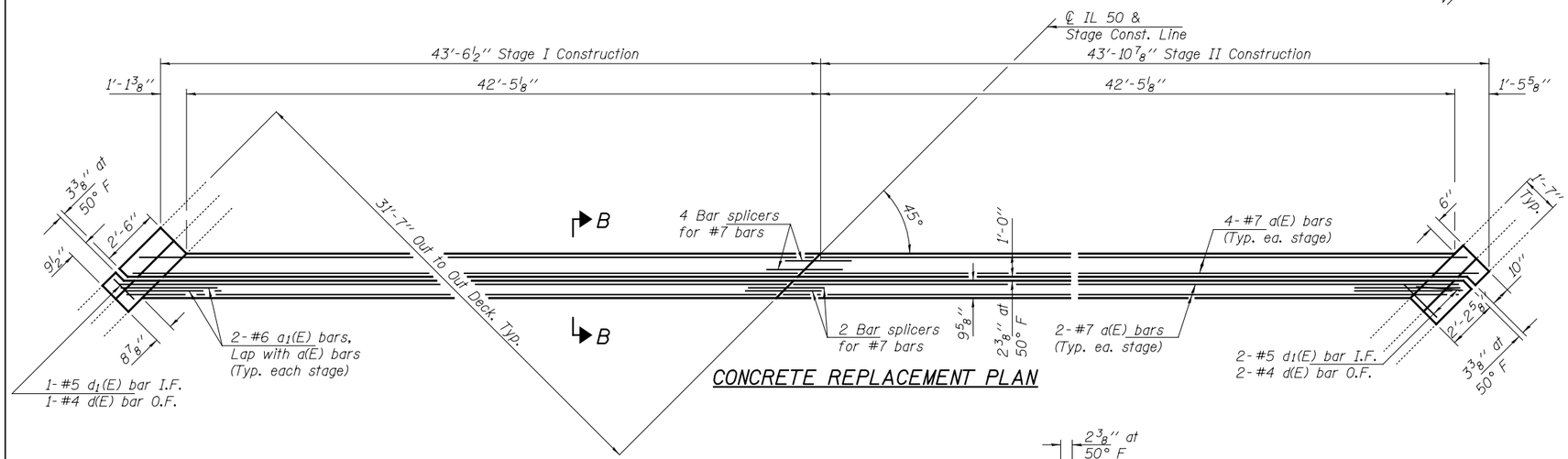
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	16
		CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			



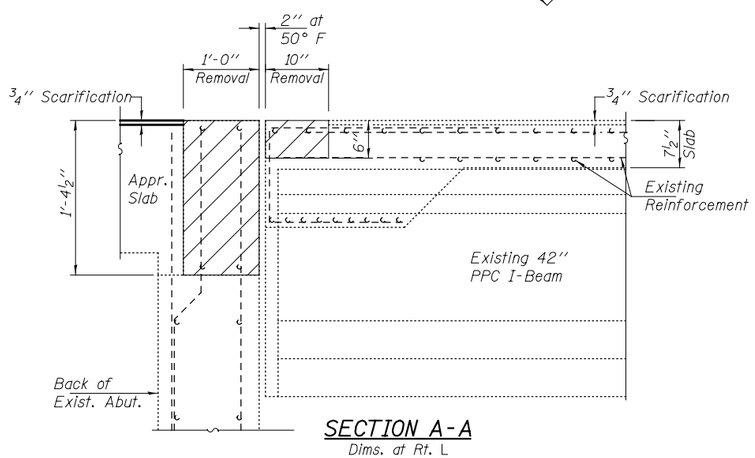
CONCRETE REMOVAL PLAN



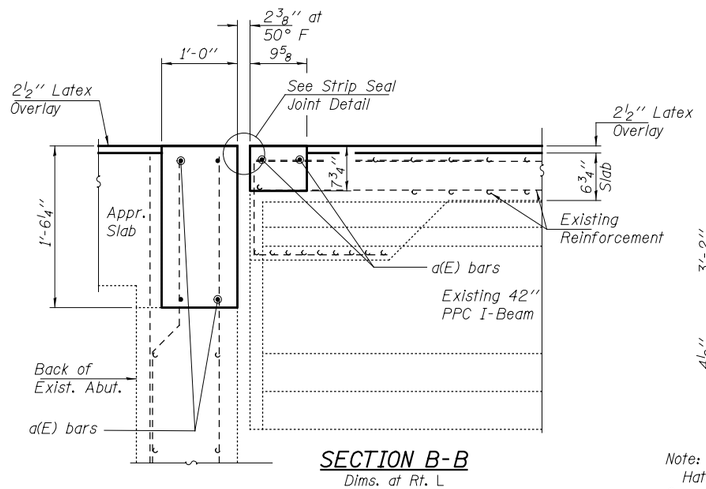
SECTION THRU PARAPET (DECK)



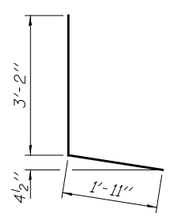
CONCRETE REPLACEMENT PLAN



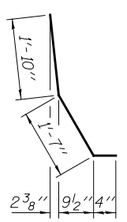
SECTION A-A
Dims. at Rt. L



SECTION B-B
Dims. at Rt. L



BAR d(E)



BAR d₁(E)

Note: Hatched areas indicate Concrete Removal.

Note: Existing horizontal bars in parapet and existing longitudinal bars in slab shall remain and be incorporated into the new construction.

The contractor shall use extreme care during concrete removal so as not to damage the PPC-I beams.

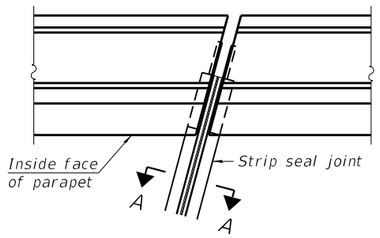
BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	12	#7	43'-9"	
a₁(E)	4	#6	6'-0"	
d(E)	3	#4	5'-1"	
d₁(E)	3	#5	4'-9"	
Reinforcement Bars, Epoxy Coated		Pound	1130	
Bar Splicers		Each	6	
Concrete Removal		Cu. Yd.	6.8	
Concrete Superstructure		Cu. Yd.	7.6	

DESIGNED	-	DATE	MARCH 14, 2019
CHECKED	-	REVISED	-
DRAWN	baliva	REVISED	-
CHECKED	-		

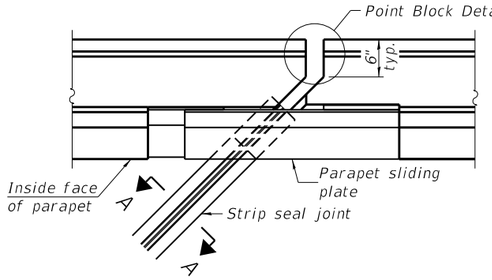
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT JOINT REPLACEMENT DETAILS
SN 099-0296
SHEET 5 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	17
		CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			

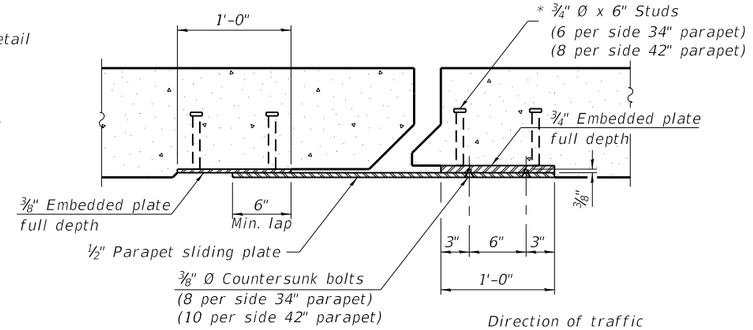


FOR SKEWS ≤ 30°

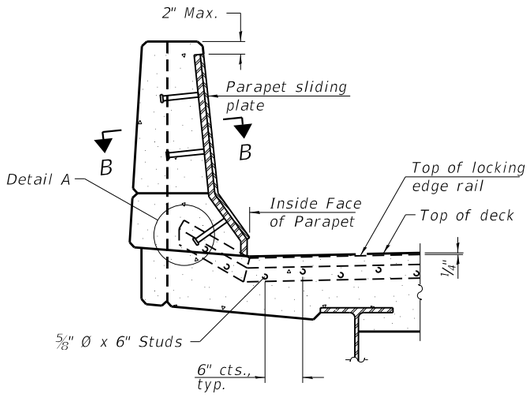


FOR SKEWS > 30°

PLAN AT PARAPET

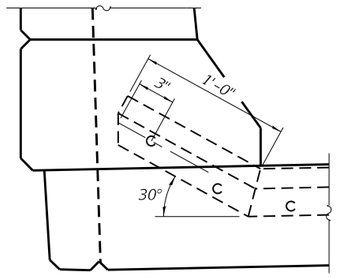


SECTION B-B

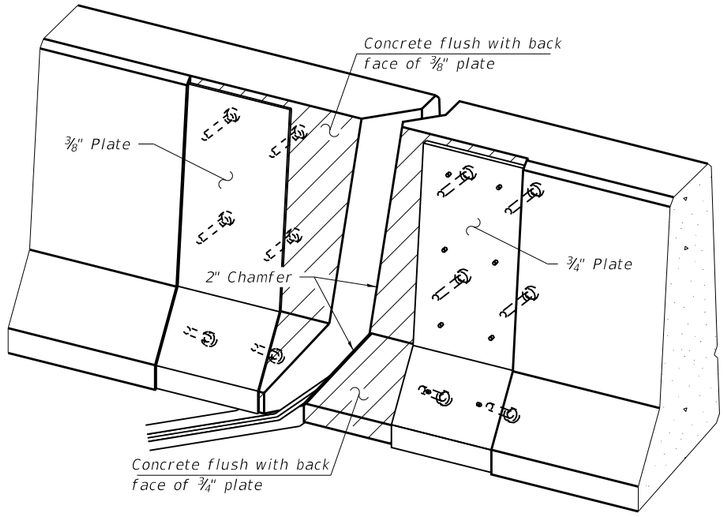


ELEVATION AT PARAPET

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

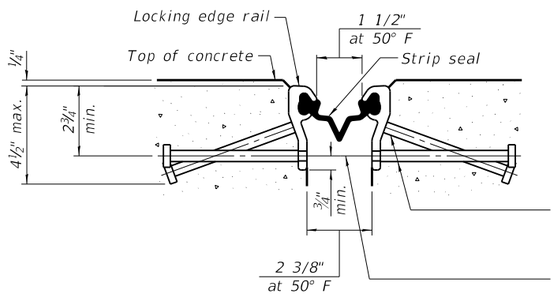


DETAIL A

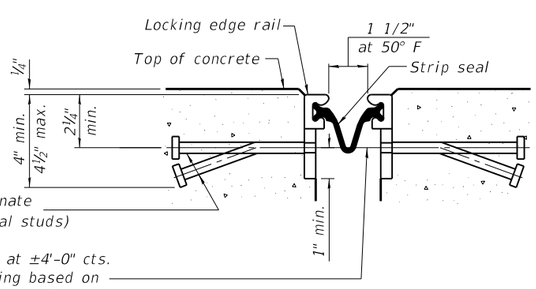


TRIMETRIC VIEW

(Showing embedded plates only)



SHOWING ROLLED RAIL JOINT



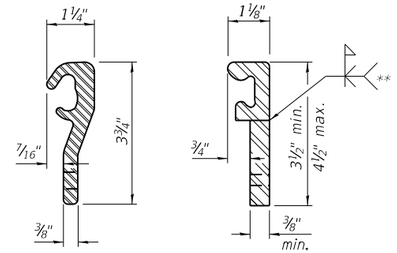
SHOWING WELDED RAIL JOINT

* ⅝" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

⅞" ϕ threaded rods in 7/16" ϕ holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

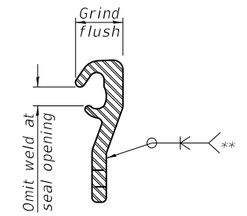


ROLLED (EXTRUDED) RAIL

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.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ¼". 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 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

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

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	178

EJ-SS 8-11-17

USER NAME = mldyla	DESIGNED	REVISED	
	CHECKED	REVISED	
PLOT SCALE = 0.1667 ' / in.	DRAWN	REVISED	
PLOT DATE = 3/11/2019	CHECKED	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 099-0296

SHEET NO. 6 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	18
		CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			

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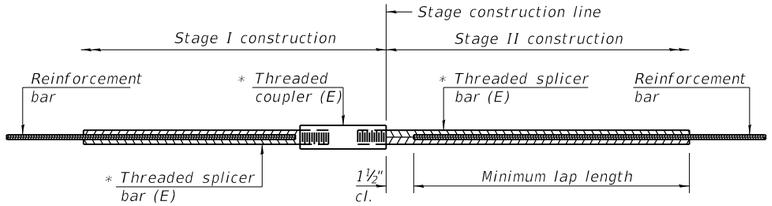
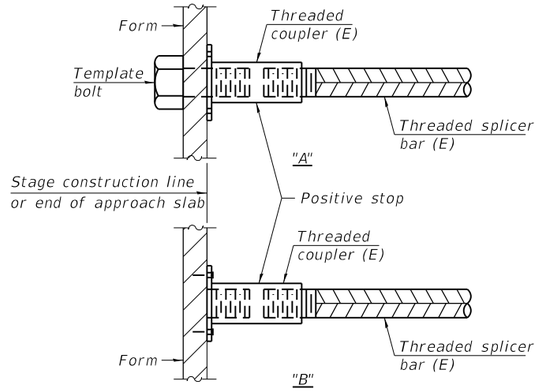


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1½" + thread length

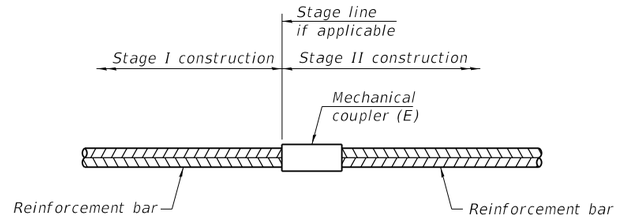
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
S. Abutment	#7	6	4'-2"
N. Abutment	#7	6	4'-2"



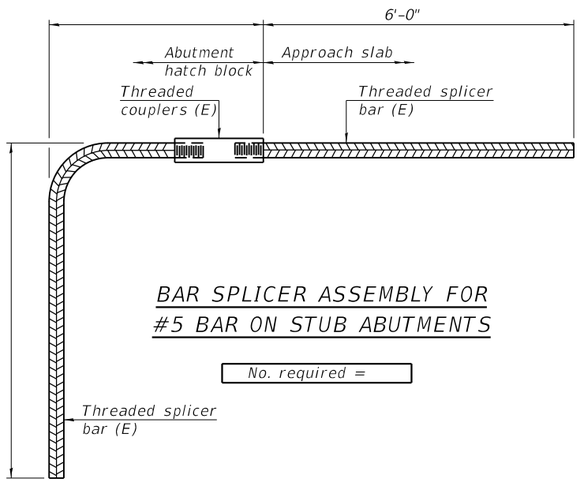
INSTALLATION AND SETTING METHODS

"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



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. 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

2-17-2017

USER NAME = mldyja	DESIGNED	REVISED	
	CHECKED	REVISED	
PLOT SCALE = 0.1667 ' / in.	DRAWN	REVISED	
PLOT DATE = 3/20/2019	CHECKED	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 099-0296

SHEET NO. 7 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	19
		CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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EXISTING STRUCTURE:

Structure No. 099-0297 was built in 1994 as F.A.S. Rte. 2300, Section 142B-1-R. The existing structure is a single span PPC I-Beam superstructure with a 7½" reinforced concrete deck supported on integral abutments. 54'-0" bk. to bk. abutments, 63'-2" out to out of deck with no skew. Stage construction shall be used to maintain traffic during construction.

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

SCOPE OF WORK:

1. Scarify ⅜" bridge deck and approach slabs.
2. Place ⅜" concrete polymer overlay on bridge deck and approach slabs.
3. Apply protective coat to top and face of parapets.

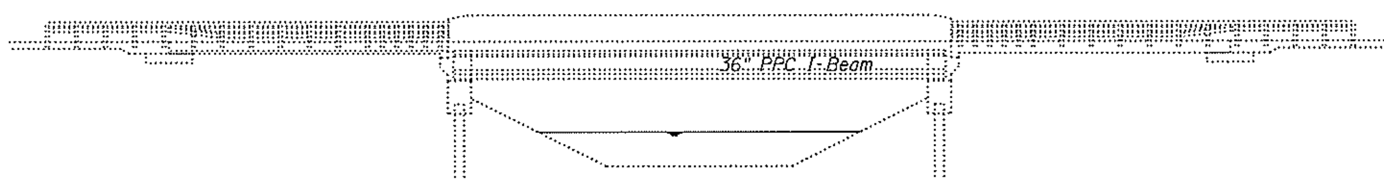
INDEX OF SHEETS

DESIGN SPECIFICATIONS

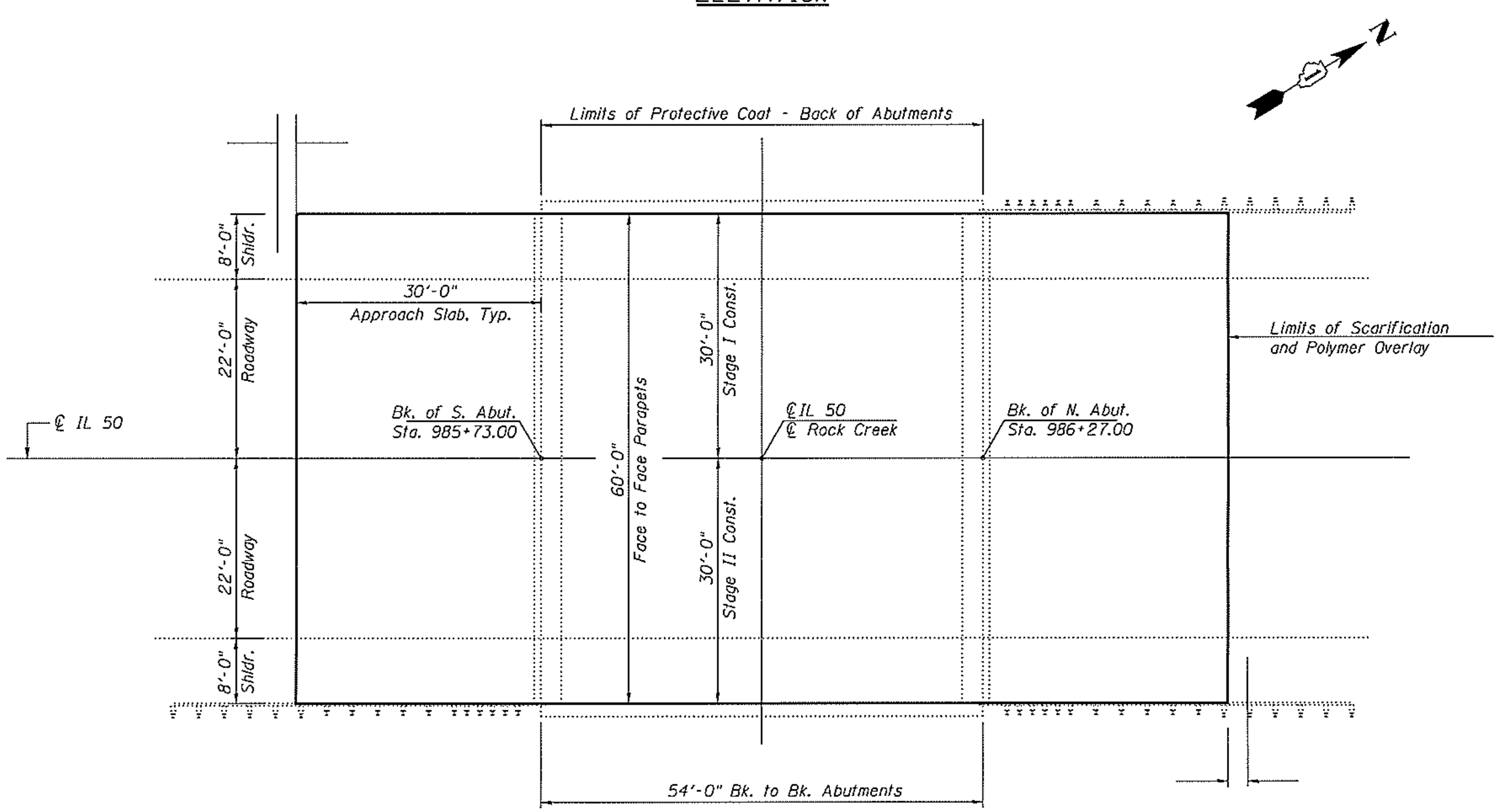
2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

LOADING HS 20-44

Original Construction



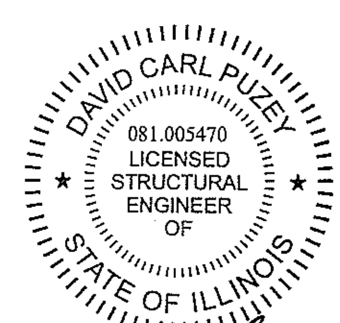
ELEVATION



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Protective Coat	Sq. Yd.	43	-	43
Bridge Deck Thin Polymer Overlay ⅜"	Sq. Yd.	760	-	760
Concrete Bridge Deck Scarification, ⅜"	Sq. Yd.	760	-	760

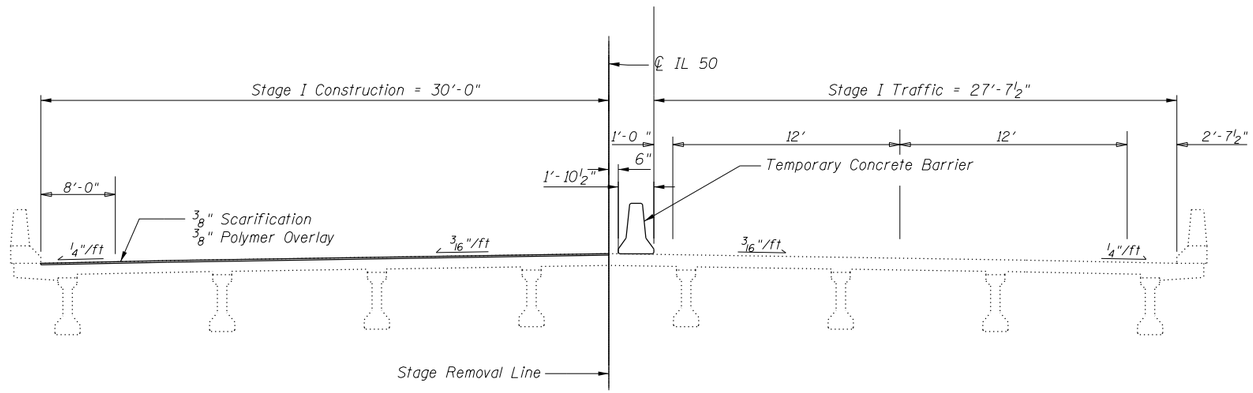


3/21/19
Expires 11/30/20

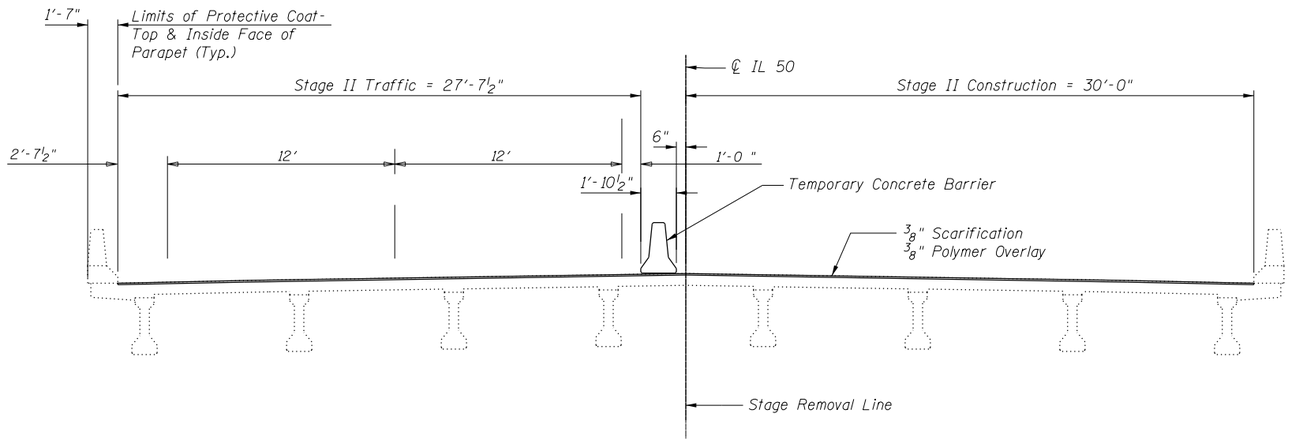
GENERAL PLAN AND ELEVATION
IL 50 OVER ROCK CREEK
FAP RT 840 SEC 142B-1-BR
WILL COUNTY
STATION 986+00
STRUCTURE NO. 099-0297

USER NAME =	DESIGNED JAM	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO. 099-0297
	CHECKED FFA	REVISED		
PLOT SCALE = 20.0000 ' / in.	DRAWN	REVISED		
PLOT DATE = 3/11/2019	CHECKED	REVISED		SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	20
		CONTRACT NO. 60R74		
		ILLINOIS FED. AID PROJECT		



STAGE I REMOVAL & CONSTRUCTION



STAGE II REMOVAL & CONSTRUCTION

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	CHECKED	REVISED			
PLOT SCALE = 8.0000 ' / in.	DRAWN	REVISED			
PLOT DATE = 3/11/2019	CHECKED	REVISED		SHEET NO. 2 OF 2 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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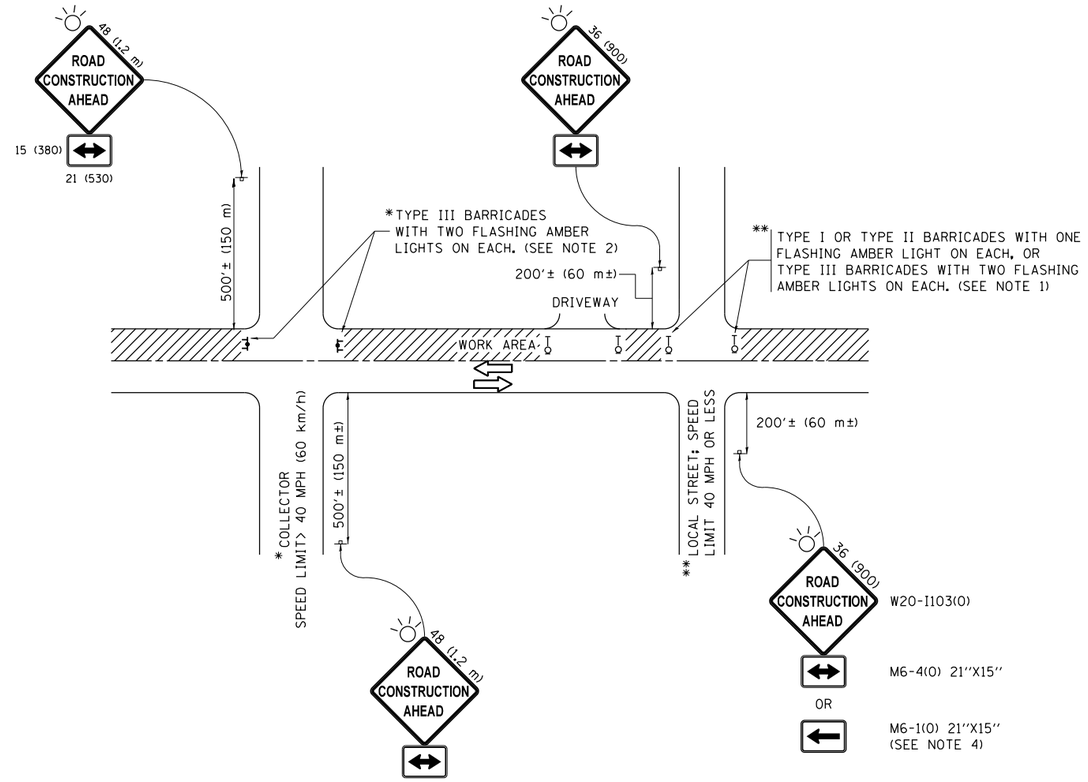
		CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			



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) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY 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. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE 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.

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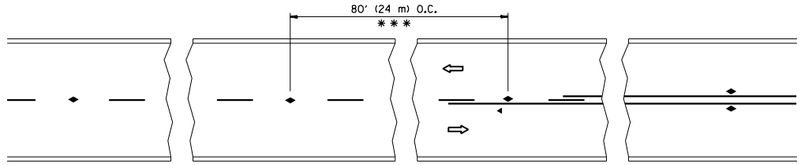
			REVISED -T. RAMMACHER 01-06-00
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
Default	PLOT DATE = 2/5/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

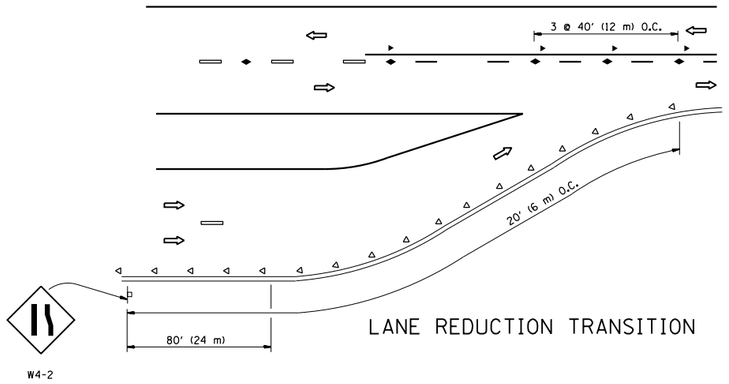
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	22
	TC-10	CONTRACT NO. 60R74		
	ILLINOIS FED. AID PROJECT			

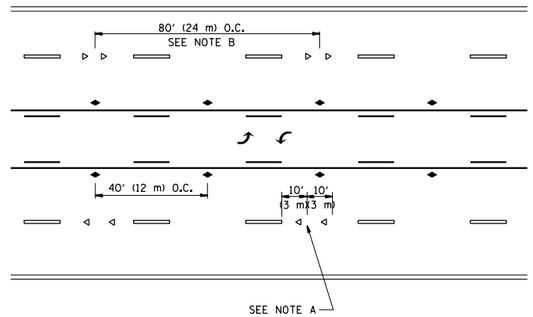


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

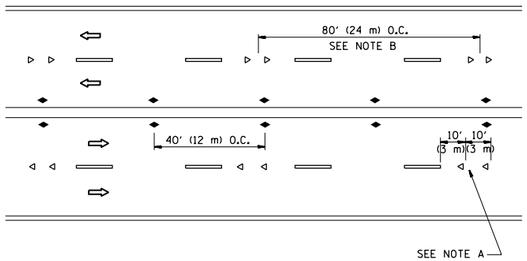
TWO-LANE/TWO-WAY



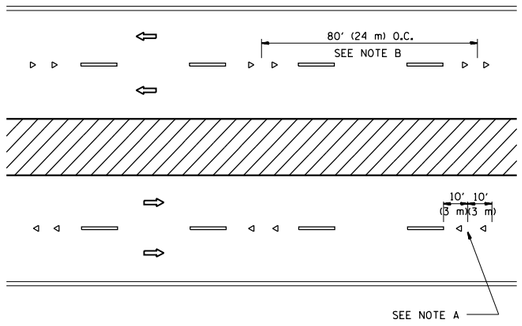
LANE REDUCTION TRANSITION



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.

SYMBOLS

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

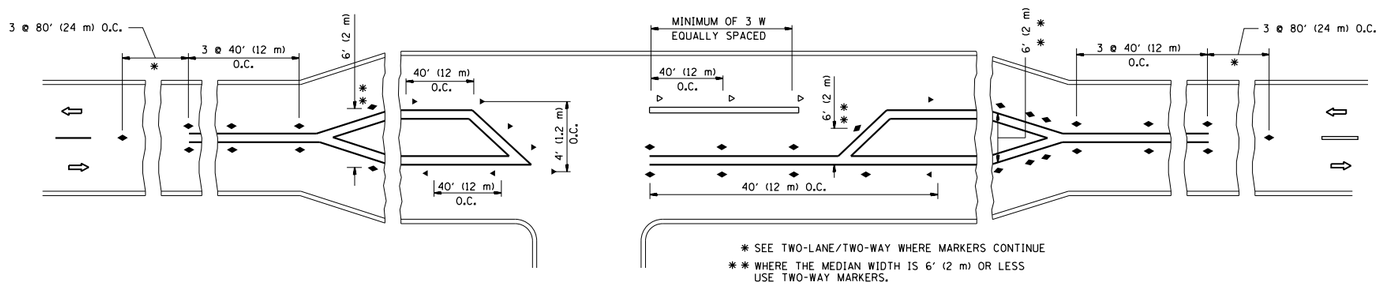
LANE MARKER NOTES

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.



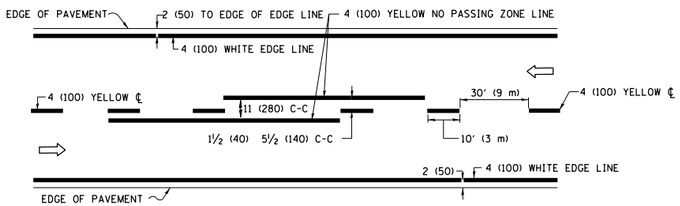
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

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

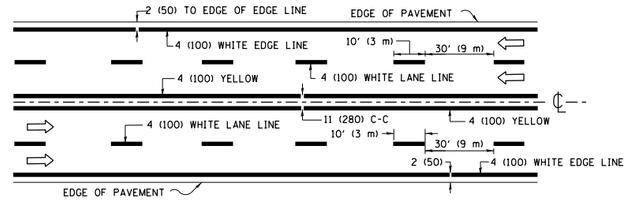
LEFT TURN

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

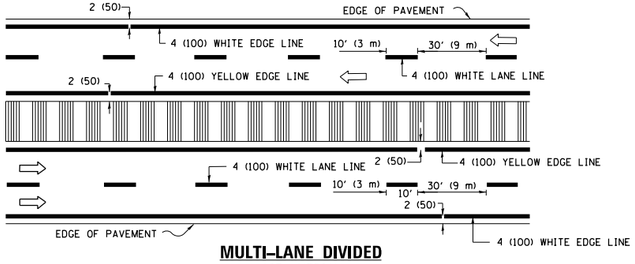
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1267DRAWN\Data\Design\DistStd.dgn	USER NAME = abebawa	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								840	142B (1&2) BR	WILL	25	23
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 03-12-99						TC-11	CONTRACT NO. 60R74		
	PLOT DATE = 2/5/2019	DATE -	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
			REVISED - C. JUCIUS 09-09-09									



2–LANE ROADWAY

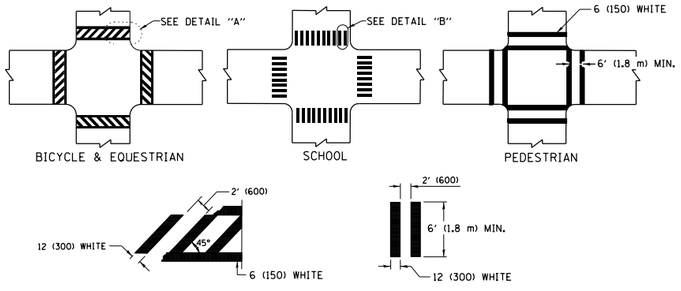


MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

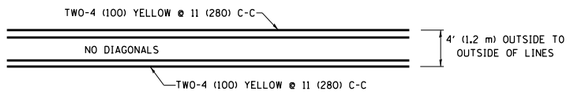
TYPICAL LANE AND EDGE LINE MARKING



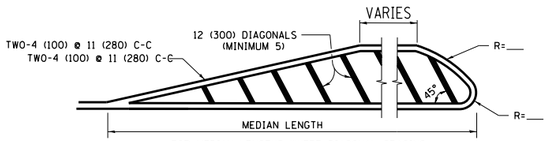
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

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



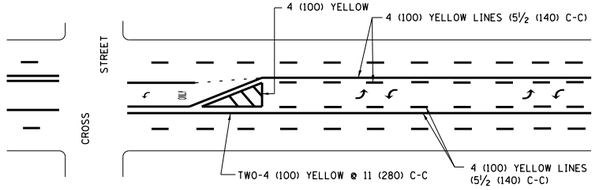
4' (1.2 m) WIDE MEDIANS ONLY



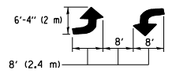
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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))

MEDIANS OVER 4' (1.2 m) WIDE

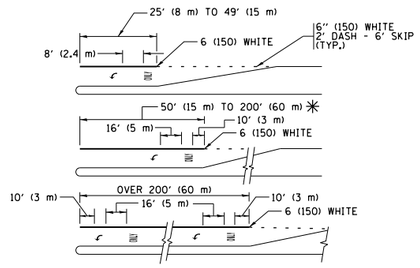


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

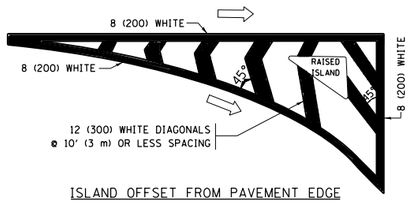


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) **ONLY** AREA = 20.8 SQ. FT. (1.9 m^2)

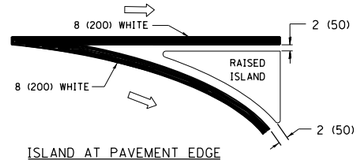
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

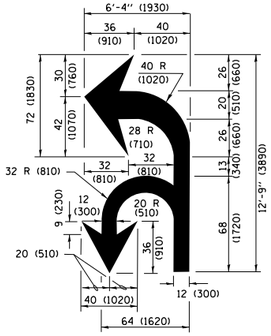


ISLAND OFFSET FROM PAVEMENT EDGE

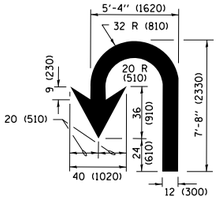


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

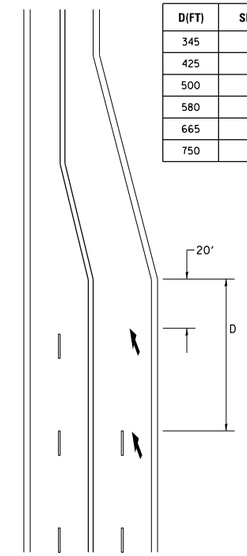


COMBINATION LEFT AND U–TURN



U–TURN

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



LANE REDUCTION TRANSITION

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

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	5½ (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; 5½ (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 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.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1267DRAWN\Data\Design\DistStd.dgn Default	USER NAME = abebawa	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
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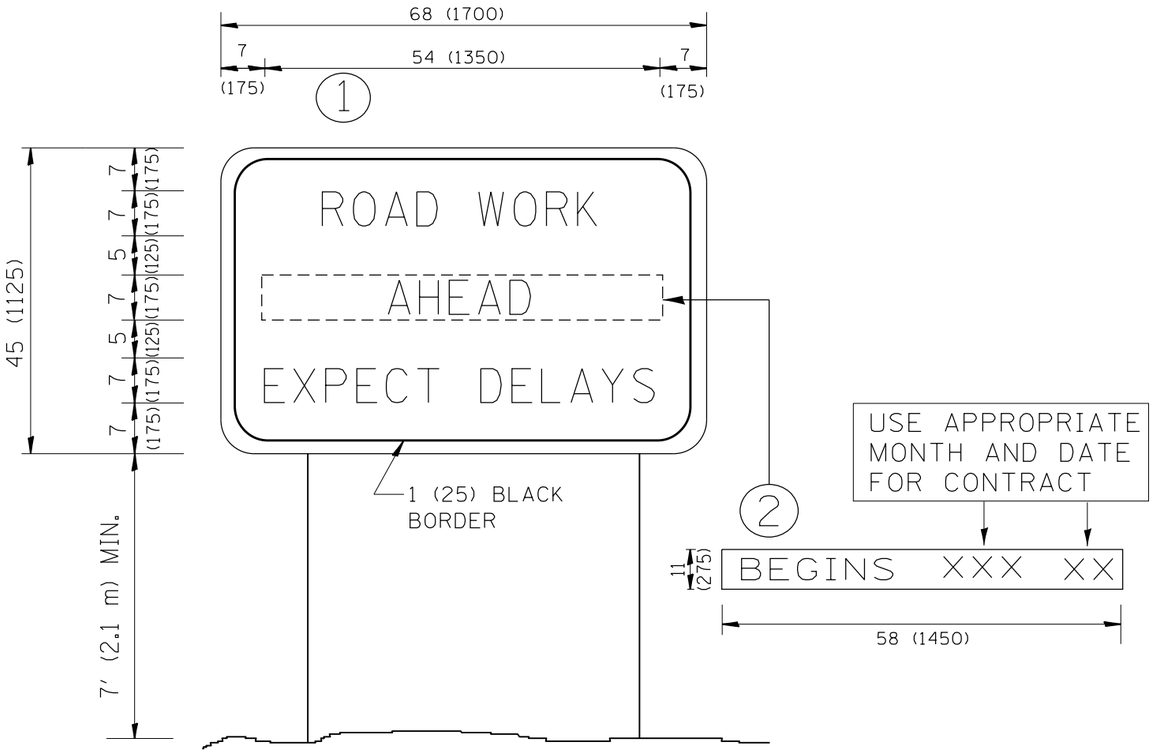
	PLOT DATE = 2/5/2019	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15 REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	24
	TC–13	CONTRACT NO. 60R74		
		ILLINOIS FED. AID PROJECT		



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.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1267DRAWN\Data\Design\DistStd.dgn	USER NAME = abebawa	DESIGNED -	REVISED - R. MIRS 09-15-97
			REVISED - R. MIRS 12-11-97
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 2/5/2019	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	142B (1&2) BR	WILL	25	25
	TC-22	**CONTRACT NO. 60R74**		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		