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01-18-2019 LETTING ITEM 033

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	1
		ILLINOIS	CONTRACT NO. 76L99	

D-98-117-18



FOR INDEX OF SHEETS, SEE SHEET NO. 2

**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 255 (I-255)
SECTION 60-7BP-1
PROJECT NHPP-I916(975)
BRIDGE PAINTING
MADISON COUNTY

C-98-344-18

FUNCTIONAL CLASSIFICATION

CLASS 1 INTERSTATE

I-255

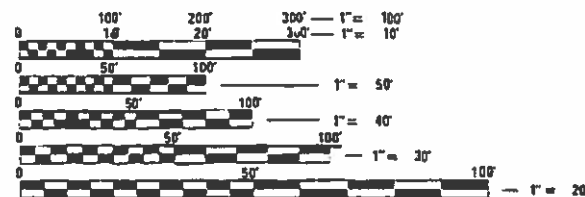
COLLINSVILLE RD

2019 ADT = 55900

2019 ADT = 11400

SU = 2.6% MU = 10.9%

SU = 7.4% MU = 2.2%

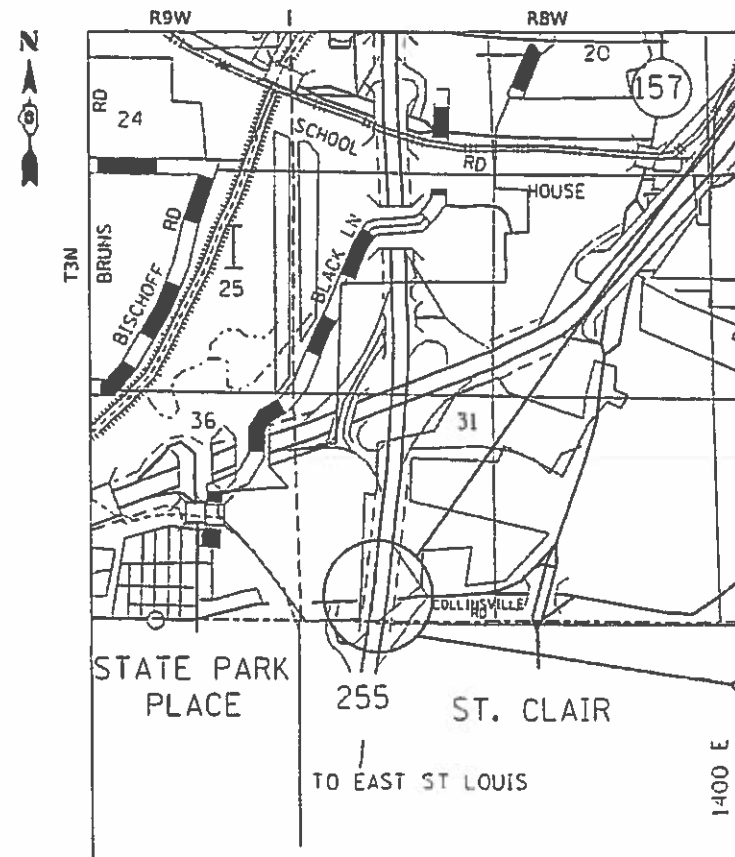


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: TIM PADGETT (618) 346-3325
PROJECT MANAGER: PHIL COPPERNOLL (618) 346-3480

CONTRACT NO. 76L99



1" = 1 MILE
GROSS LENGTH = 126.08 FT. = 0.024 MILE
NET LENGTH = 126.08 FT. = 0.024 MILE

PROJECT LOCATION
SN 060-0238 (NB)-NO. 1
SIMPLE SPAN STEEL PLATE GIRDER
124 FT. C. BRG. TO C. BRG.
OVER COLLINSVILLE RD
LATITUDE: 38.659753
LONGITUDE: 90.030864

SN 060-0239 (SB)-NO. 2
SIMPLE SPAN STEEL PLATE GIRDER
124 FT. C. BRG. TO C. BRG.
OVER COLLINSVILLE RD
LATITUDE: 38.659742
LONGITUDE: 90.031247

BEGIN IMPROVEMENT
STA 1243+80.19
END IMPROVEMENT
STA 1245+56.35

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *Oct 5 20 18*
Jeffrey Z. Kammer
REGIONAL ENGINEER

Dec 7 20 18
Paul J. [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 7 20 18
Paul J. [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
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8	SCHEDULES OF QUANTITIES
9-19	STAGES OF CONSTRUCTION AND TRAFFIC CONTROL SHEETS
20	WIDE LOAD SIGNING
21-27	EXISTING STRUCTURAL SHEETS

HIGHWAY STANDARDS

000001-07	STANDARDS SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

- ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E (1-800-892-0123 OR 811) OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.
- THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING, TOPOGRAPHY, AND QUANTITIES SHOWN IN THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS. ALL SHALL BE ASSUMED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE S5PC-QP1 AND S5PC-QP2 CERTIFICATIONS WILL BE REQUIRED FOR ALL BRIDGES.
- FOR BOTH STRUCTURES, CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL EXISTING STEEL SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING -SPPC-SP10. ALL EXISTING STEEL SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1-OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL INTERIOR STEEL SURFACES SHALL BE GRAY, MUNSELL NO. 5B 7/1. THE COLOR OF THE FINAL FINISH COAT FOR THE EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE REDDISH BROWN, MUNSELL NO 2.5YR 3/4.
- A MINIMUM OF 2 AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".
- THE CONTRACTOR SHALL NOT DISTURB EXISTING CONDUIT AND FLANGE CLIPS ATTACHED TO S.N. 060-0238 (NB) DURING BLASTING AND PAINTING.
- ALL TURF AREA DISTURBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL AS DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN AT THE CONTRACTOR'S EXPENSE.
- ALL TRAFFIC CONTROL DEVICES SHALL BE NEW OR "LIKE NEW" CONDITION AT THE BEGINNING OF THE PROJECT. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT EACH END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS. THESE SIGNS WILL BE CONSIDERED AS INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE 48" X 48" FLUORESCENT ORANGE.
- CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AT THE DIRECTION OF THE ENGINEER. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED TWO WEEKS PRIOR TO THE COMMENCEMENT OF THE CONTRACT.
- A QUANTITY OF 900 FEET OF TEMPORARY PAVEMENT MARKING LINE 6" HAS BEEN INCLUDED IN THE PLANS FOR PAINTING THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER.
- THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSE WORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY -LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

COMMITMENTS

NONE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES,
HIGHWAY STANDARDS & COMMITMENTS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	2
CONTRACT NO. 76L99				
		ILLINOIS	FED. AID PROJECT	

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				F.A.I. 255 (NHPP)	
				BRIDGE	BRIDGE
				0047	0047
				S.N. 060-0238	S.N. 060-0239
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70107006	PAVEMENT MARKING BLACKOUT TAPE, 6"	FOOT	728	364	364
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	900	450	450
70400100	TEMPORARY CONCRETE BARRIER	FOOT	700	350	350
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	675	337.5	337.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	72	36	36
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.5	0.5
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	14	14
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	306	153	153
X7200200	WIDE LOAD SIGNING	L SUM	1	0.5	0.5
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1	
Z0007102	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1		1

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PLOT DATE = 10/5/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	3
			CONTRACT NO. 76L99	
ILLINOIS FED. AID PROJECT				

REV. - MS

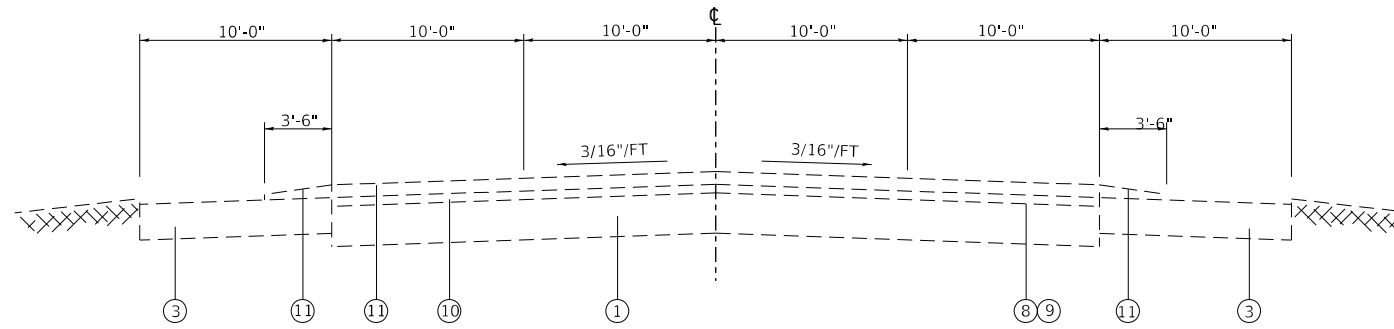
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				F.A.I. 255 (NHPP)	
				BRIDGE	BRIDGE
				0047	0047
S.N. 060-0238		S.N. 060-0239			
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1	
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1		1

90% FED
10% STATE

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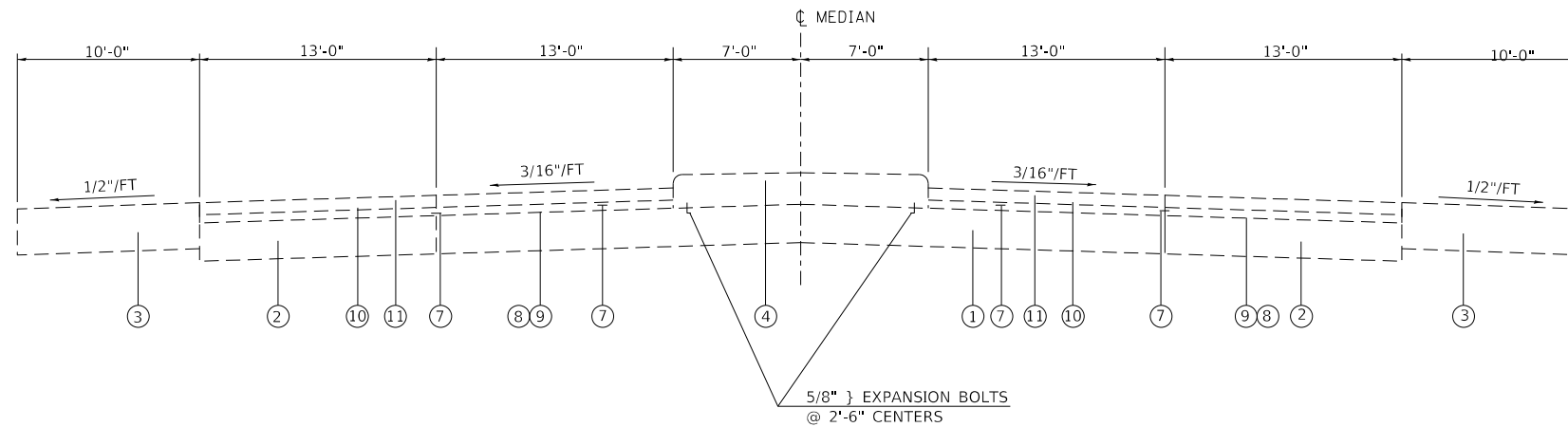
REV. - MS

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DATE -	REVISED -						ILLINOIS FED. AID PROJECT				



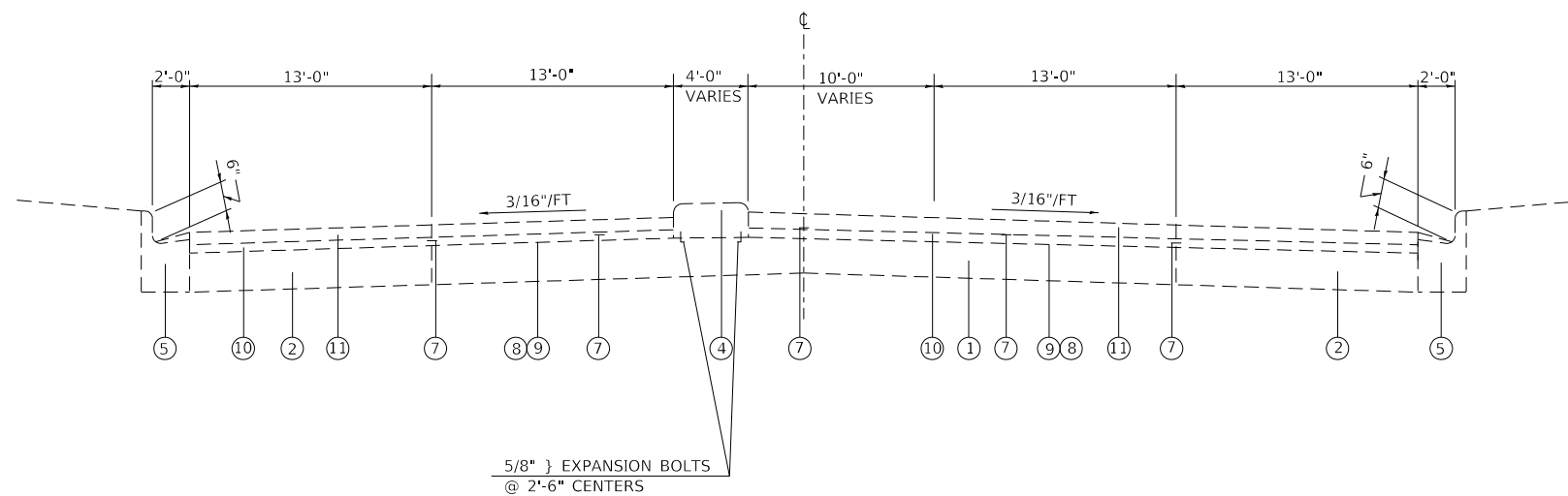
COLLINSVILLE RD EXISTING TYPICAL SECTION

STA. 325+08 TO STA. 326+52
 STA. 346+24 TO STA. 348+06
 (LOOKING EAST)



COLLINSVILLE RD EXISTING TYPICAL SECTION

STA. 326+52 TO STA. 327+27
 STA. 342+10 TO STA. 346+24
 (LOOKING EAST)



COLLINSVILLE RD EXISTING TYPICAL SECTION

STA. 327+27 TO STA. 329+25
 STA. 337+57 TO STA. 341+50
 AT STRUCTURES
 (LOOKING EAST)

LEGEND

- ① EXISTING PCC PAVEMENT
- ② EXISTING PCC BASE COURSE WIDENING
- ③ EXISTING HMA SHOULDER
- ④ EXISTING CONCRETE MEDIAN
- ⑤ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑥ EXISTING SIDEROAD
- ⑦ EXISTING STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ⑧ EXISTING BITUMINOUS MATERIAL PRIME COAT
- ⑨ EXISTING AGGREGATE PRIME COAT
- ⑩ EXISTING LEVELING BINDER (MACHINE METHOD) N70 3/4"
- ⑪ EXISTING HMA SURFACE COURSE MIX "D" N70 1 1/2"
- ⑫ EXISTING HMA BINDER COURSE, IL-19.0 FG, N90, 2 1/4"
- ⑬ EXISTING POLY HMA SURFACE COURSE, MIX N90, 2"

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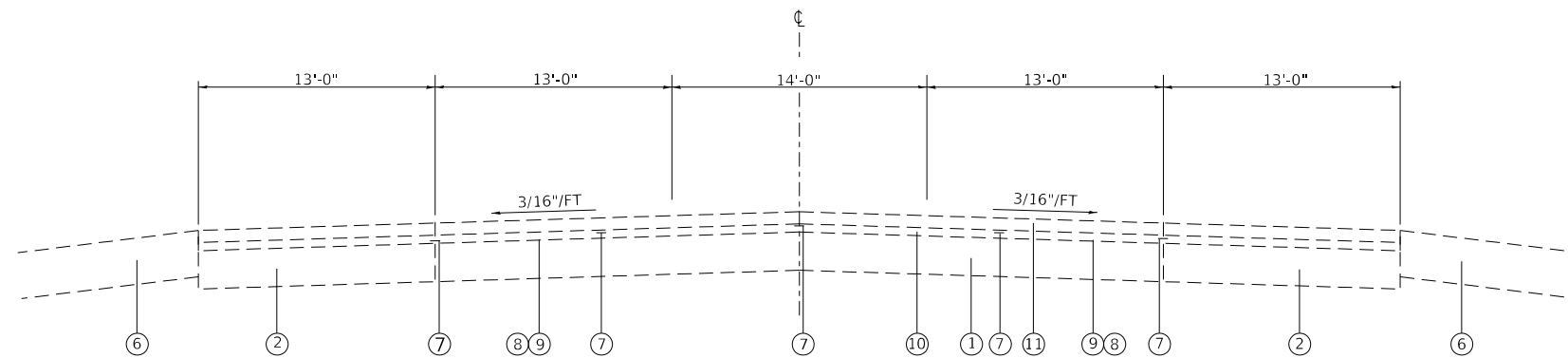
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTIONS
 ON COLLINSVILLE RD**

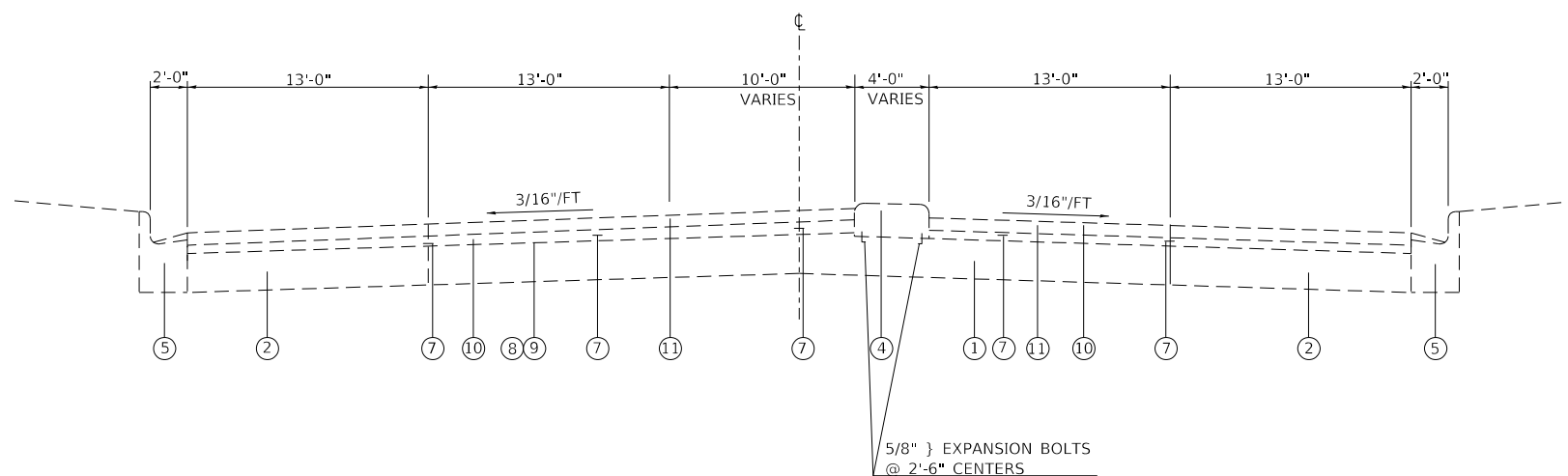
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	5
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				



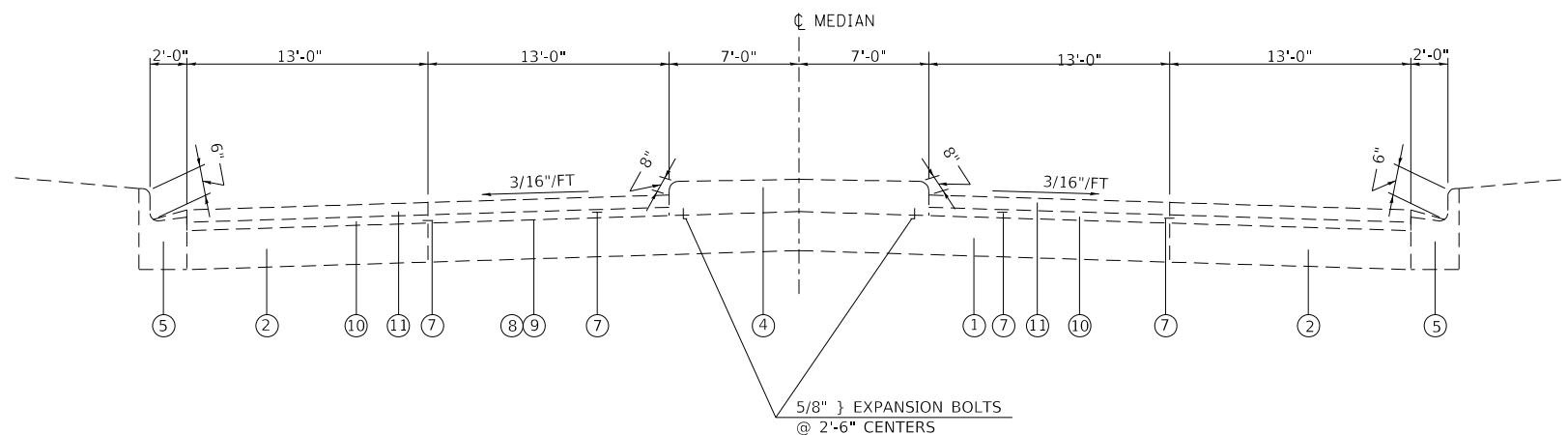
COLLINSVILLE RD EXISTING TYPICAL SECTION

STA. 329+25 TO STA. 330+09
 STA. 341+50 TO STA. 342+10
 (LOOKING EAST)



COLLINSVILLE RD EXISTING TYPICAL SECTION

STA. 330+09 TO STA. 335+33
 (LOOKING EAST)



COLLINSVILLE RD EXISTING TYPICAL SECTION

STA. 335+33 TO STA. 337+57
 AT STRUCTURES
 (LOOKING EAST)

LEGEND

- ① EXISTING PCC PAVEMENT
- ② EXISTING PCC BASE COURSE WIDENING
- ③ EXISTING HMA SHOULDER
- ④ EXISTING CONCRETE MEDIAN
- ⑤ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑥ EXISTING SIDEROAD
- ⑦ EXISTING STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ⑧ EXISTING BITUMINOUS MATERIAL PRIME COAT
- ⑨ EXISTING AGGREGATE PRIME COAT
- ⑩ EXISTING LEVELING BINDER (MACHINE METHOD) N70 3/4"
- ⑪ EXISTING HMA SURFACE COURSE MIX "D" N70 1 1/2"
- ⑫ EXISTING HMA BINDER COURSE, IL-19.0 FG, N90, 2 1/4"
- ⑬ EXISTING POLY HMA SURFACE COURSE, MIX N90, 2"

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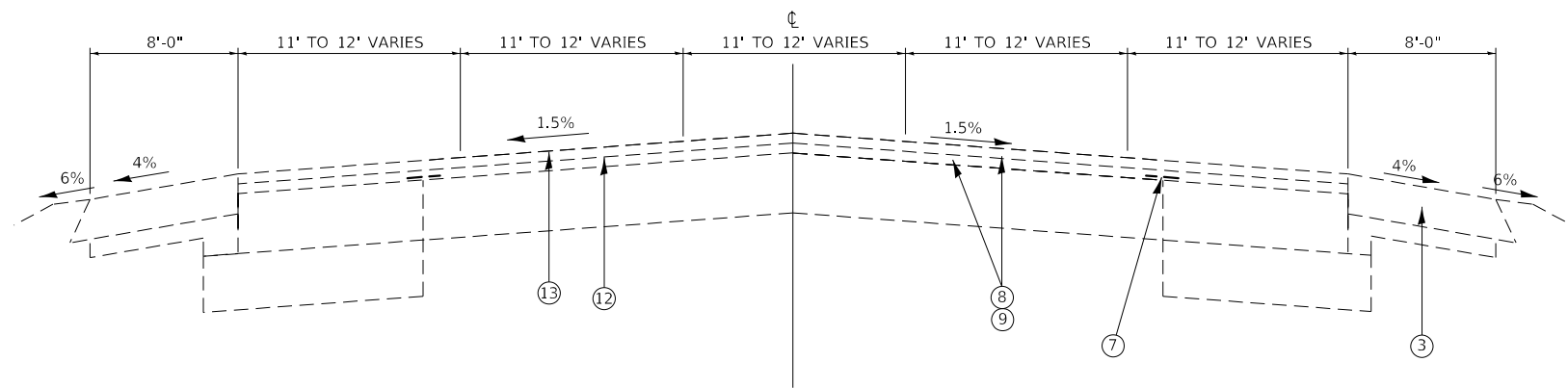
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTIONS
 ON COLLINSVILLE RD**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	6
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				



COLLINSVILLE RD EXISTING TYPICAL SECTION

STA. 347+39.9 TO STA. 357+92.0 LT
 STA. 347+45.4 TO STA. 356+08.0 RT

LEGEND

- ① EXISTING PCC PAVEMENT
- ② EXISTING PCC BASE COURSE WIDENING
- ③ EXISTING HMA SHOULDER
- ④ EXISTING CONCRETE MEDIAN
- ⑤ EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ⑥ EXISTING SIDEROAD
- ⑦ EXISTING STRIP REFLECTIVE CRACK CONTROL TREATMENT
- ⑧ EXISTING BITUMINOUS MATERIAL PRIME COAT
- ⑨ EXISTING AGGREGATE PRIME COAT
- ⑩ EXISTING LEVELING BINDER (MACHINE METHOD) N70 3/4"
- ⑪ EXISTING HMA SURFACE COURSE MIX "D" N70 1 1/2"
- ⑫ EXISTING HMA BINDER COURSE, IL-19.0 FG, N90, 2 1/4"
- ⑬ EXISTING POLY HMA SURFACE COURSE, MIX N90, 2"

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING TYPICAL SECTIONS
 ON COLLINSVILLE RD**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	7
CONTRACT NO. 76L99			ILLINOIS FED. AID PROJECT	

TRAFFIC CONTROL BARRIER SCHEDULE									
LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	TCB PINNING	BARRIER WALL REFLECTORS, TYPE C		TEMPORARY PAVEMENT MARKING LINE, 6"		IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3
				CRYSTAL	AMBER	WHITE	YELLOW		
	FOOT	FOOT	EACH	EACH	EACH	FOOT	FOOT	EACH	EACH
CONSTRUCTION STAGE 1									
336+01.70 TO 337+25.69	112.5		24					1	
337+25.69 TO 339+50.69	225.0		51	18		225			
CONSTRUCTION STAGE 2									
335+89.14 TO 337+29.43		125.0	27						1
337+29.43 TO 339+54.43	12.5	212.5	51		18		225		
337+38.22 TO 339+63.22	225.0		51		18		225		
339+63.22 TO 341+03.07	125.0		27					1	
CONSTRUCTION STAGE 3									
337+46.01 TO 339+71.01		225.0	51	18			225		
339+71.01 TO 340+95.00		112.5	24						1
TOTALS	700.0	675	306	72		900		2	2

TRAFFIC CONTROL PAVEMENT MARKING						
LOCATION			TEMPORARY PAVEMENT MARKING LINE, 4" *		PAVEMENT MARKING BLACKOUT TAPE, 6"	TEMPORARY PAVEMENT MARKING REMOVAL *
			WHITE	YELLOW		
			FOOT	FOOT	FOOT	SQ FT
CONSTRUCTION STAGE 1						
320+64.16 TO 326+11.85			548		137	183
326+11.85 TO 327+07.20			95			32
327+07.20 TO 328+32.14			126		31	42
328+32.14 TO 328+94.11					15	
328+94.11 TO 329+24.64			31			10
329+24.64 TO 330+16.97						
330+16.97 TO 330+79.49			63			21
330+79.49 TO 331+11.58					8	
331+11.58 TO 332+26.81			116		29	39
332+26.81 TO 337+25.69			499			166
CONSTRUCTION STAGE 2						
319+58.41 TO 326+72.27				714	178	238
326+72.27 TO 327+44.63				73	18	24
327+44.63 TO 328+32.21					22	
328+32.21 TO 329+16.45		85	84		21	56
329+16.45 TO 330+01.33						
330+01.33 TO 331+22.54					30	
331+22.54 TO 337+29.43				607		202
339+63.22 TO 340+61.82				99		33
340+61.82 TO 340+95.09						
340+95.09 TO 341+52.42					14	
341+52.42 TO 342+29.86						
342+29.86 TO 343+25.60				96		32
343+25.60 TO 346+77.83				352	88	117
CONSTRUCTION STAGE 3						
339+71.01 TO 340+81.55			111			37
340+81.55 TO 341+53.41					18	
341+53.41 TO 342+24.95						
342+24.95 TO 342+65.14		40				13
342+65.14 TO 343+52.19		176				59
343+52.19 TO 344+44.59						
344+44.59 TO 345+22.30		78				26
345+22.30 TO 346+40.10		118			118	39
TOTALS			4110		728	1370

* NOT MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

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PLOT DATE = 10/5/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	8
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				

SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE I CONSTRUCTION

1. STAGE I CONSTRUCTION SHALL CONSIST OF: BLAST CLEANING AND PAINTING ALL STRUCTURAL STEEL SOUTH OF TEMPORARY CONCRETE BARRIER.

2. TRAFFIC CONTROL FOR THIS WORK WILL BE DONE ACCORDING TO THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION SPECIAL PROVISION AND AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

STAGE II CONSTRUCTION

1. STAGE II CONSTRUCTION SHALL CONSIST OF: BLAST CLEANING AND PAINTING ALL STRUCTURAL STEEL BETWEEN TEMPORARY CONCRETE BARRIER.

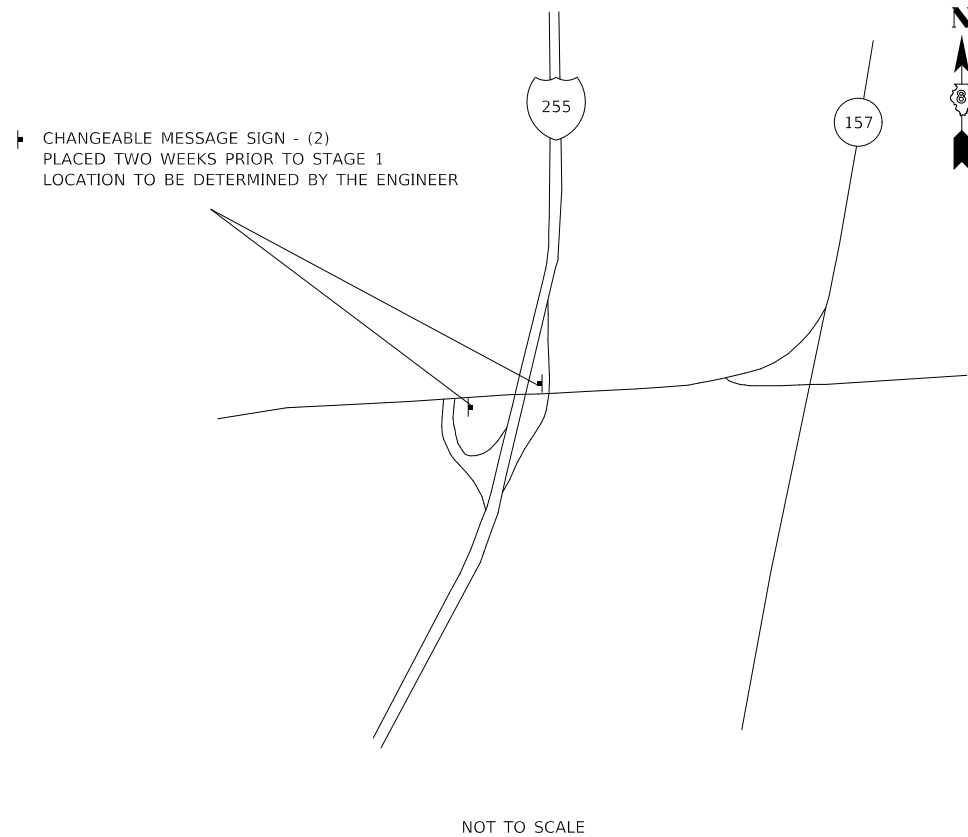
2. TRAFFIC CONTROL FOR THIS WORK WILL BE DONE ACCORDING TO THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION SPECIAL PROVISION AND AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

STAGE III CONSTRUCTION

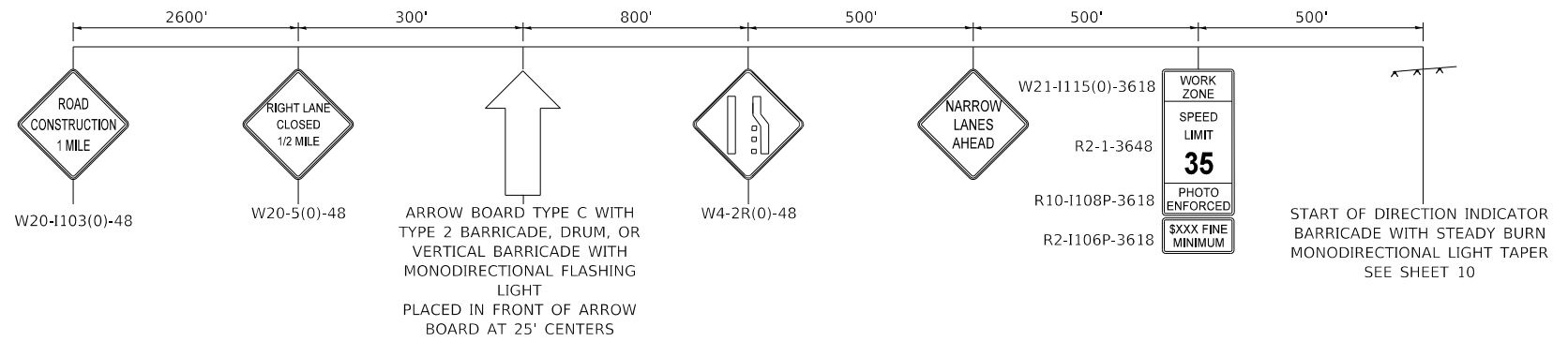
1. STAGE III CONSTRUCTION SHALL CONSIST OF: BLAST CLEANING AND PAINTING ALL STRUCTURAL STEEL NORTH OF TEMPORARY CONCRETE BARRIER.

2. TRAFFIC CONTROL FOR THIS WORK WILL BE DONE ACCORDING TO THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION SPECIAL PROVISION AND AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

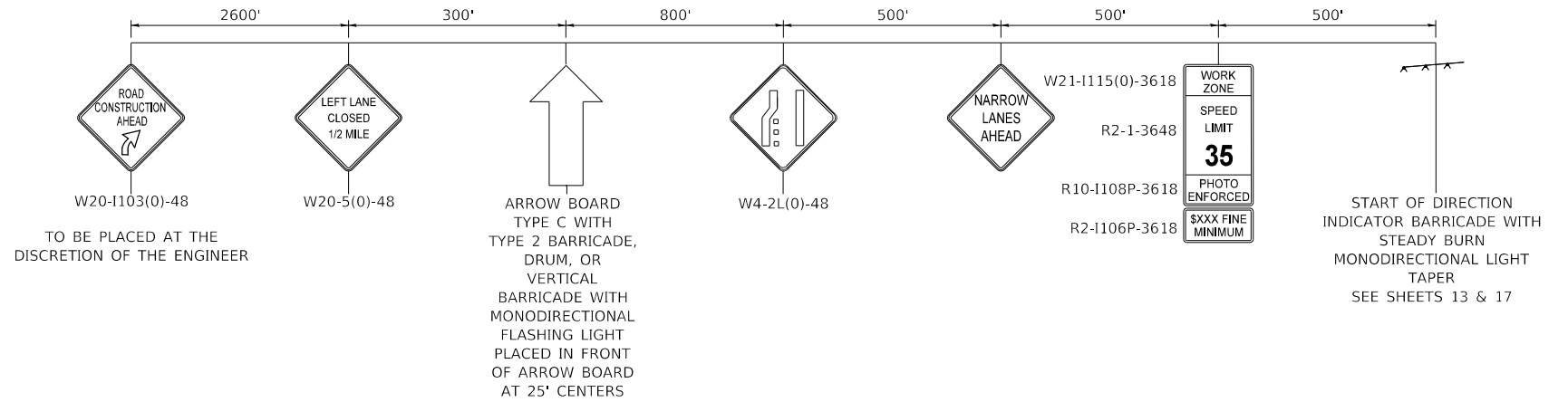
CHANGEABLE MESSAGE SIGN LOCATIONS



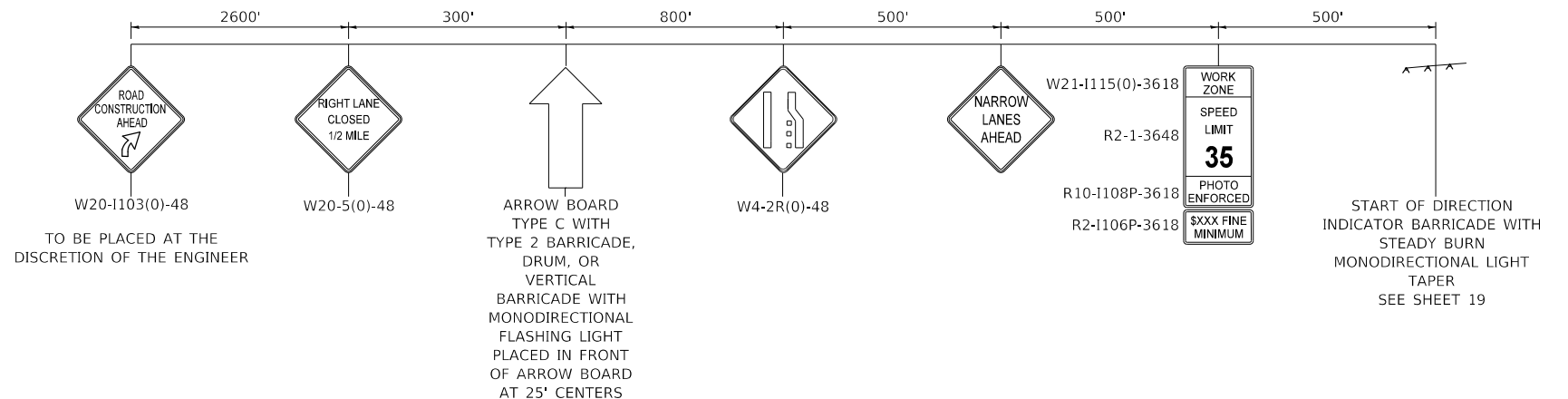
STAGE 1: EAST BOUND RIGHT LANE CLOSURE OFFSET = 14.875'



STAGE 2: EAST BOUND & WEST BOUND LEFT LANE CLOSURES OFFSET = 15.875'



STAGE 3: WEST BOUND RIGHT LANE CLOSURE OFFSET = 14.875'



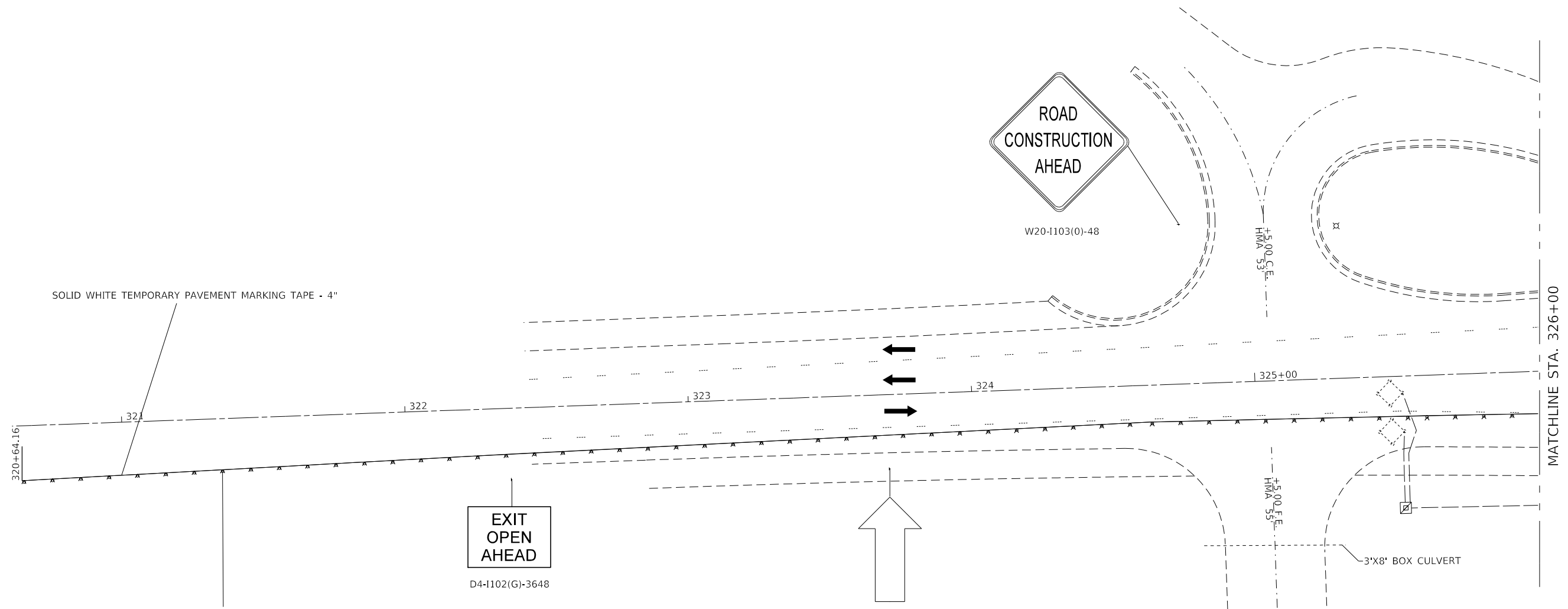
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE CONSTRUCTION AND TRAFFIC CONTROL

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	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/5/2018	DATE -	REVISED -

SCALE: NTS SHEET 1 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-78P-1	MADISON	27	9
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				







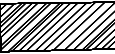
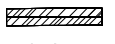
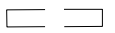
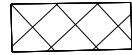
SOLID WHITE TEMPORARY PAVEMENT MARKING TAPE - 4"

DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 50' CTS.

EXIT
OPEN
AHEAD
D4-1102(G)-3648

SEE STAGE 1 APPROACH SIGNING
ON STAGE CONSTRUCTION AND
TRAFFIC CONTROL SHEET 9

LEGEND

-  DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
-  DRUM WITH STEADY BURNING BIDIRECTIONAL LIGHT
-  DIRECTION OF TRAFFIC
-  ARROW BOARD TYPE C
-  TEMPORARY IMPACT ATTENUATOR
-  ANCHORED TEMPORARY CONCRETE BARRIER (6 PINS)
-  PINNED TEMPORARY CONCRETE BARRIER (3 PINS)
-  WORK AREA

NOTES

1. THIS TRAFFIC CONTROL PLAN IS USED FOR LANE CLOSURES DAY AND NIGHT OPERATIONS.
2. ANY PERMANENT PAVEMENT MARKING THAT CONFLICTS WITH THE PROPOSED TRAFFIC CONTROL STAGINGS SHALL BE COVERED USING BLACKOUT TAPE.
3. TEMPORARY CONCRETE BARRIER SECTIONS SHALL BE CONNECTED TO EACH OTHER IN ACCORDANCE WITH HIGHWAY STANDARD 704001.
4. IF THERE EXISTS ANY RAISED PAVEMENT MARKERS THAT CONFLICT WITH THIS TRAFFIC CONTROL SETUP, THE CONTRACTOR SHALL COVER THE MARKERS AND REMOVE THE COVER WHEN THE CONFLICT NO LONGER EXISTS. THE METHOD OF COVERING AND REMOVAL SHALL BE APPROVED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

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	DRAWN -	REVISED -
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PLOT DATE = 10/5/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 CONSTRUCTION
AND TRAFFIC CONTROL**

SCALE: 1" = 20' SHEET 2 OF 11 SHEETS STA. 320+60 TO STA. 326+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	10
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				



STA. +72.05 (SIMPSON RD)
STA. 0+00 (US BUS. RTE. 40)

W20-1103(0)-48

MATCHLINE STA. 326+00

MATCHLINE STA. 332+00

SOLID WHITE TEMPORARY PAVEMENT MARKING TAPE - 4"

DIRECTION INDICATOR
BARRICADE WITH STEADY BURN
MONODIRECTIONAL LIGHT AT
50' CTS.

DRUMS WITH STEADY
BURN MONODIRECTIONAL
LIGHT AT 25' CTS.

DRUMS WITH STEADY
BURN MONODIRECTIONAL
LIGHT (4 SECT)

DRUMS WITH STEADY
BURN MONODIRECTIONAL
LIGHT (5 SECT)

DRUMS WITH STEADY
BURN MONODIRECTIONAL
LIGHT AT 25' CTS.

SOLID WHITE TEMPORARY PAVEMENT MARKING TAPE - 4"

STA. 100+00.00 (RAMP 9)
STA. 329+55.11 (US BUS. RTE. 40)



W20-1103(0)-48

LEGEND

- | | |
|--|---|
| | |
| DIRECTION INDICATOR
BARRICADE WITH
STEADY BURN
MONODIRECTIONAL
LIGHT | DRUM WITH STEADY
BURNING BIDIRECTIONAL
LIGHT |
| | |
| DIRECTION OF
TRAFFIC | ARROW BOARD
TYPE C |
| | |
| TEMPORARY IMPACT
ATTENUATOR | ANCHORED
TEMPORARY
CONCRETE BARRIER
(6 PINS) |
| | |
| PINNED TEMPORARY
CONCRETE BARRIER
(3 PINS) | WORK AREA |



MODEL: Default
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PROJECT: 1103(0)-48
OFFICE: DISTRICT 8
CADD: DATA/CADD/1103(0)-48.dgn

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PLOT DATE = 10/5/2018	DATE -	REVISED -

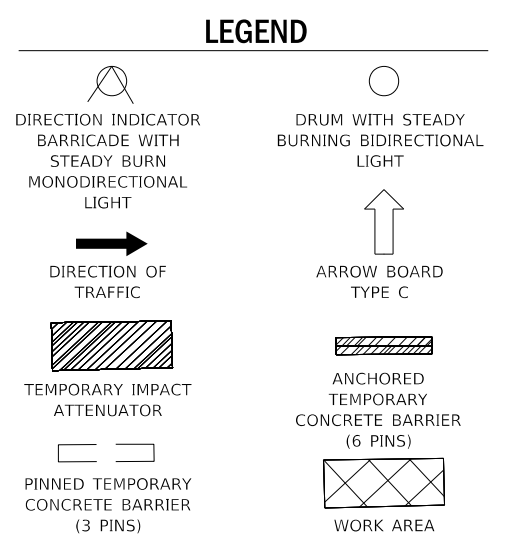
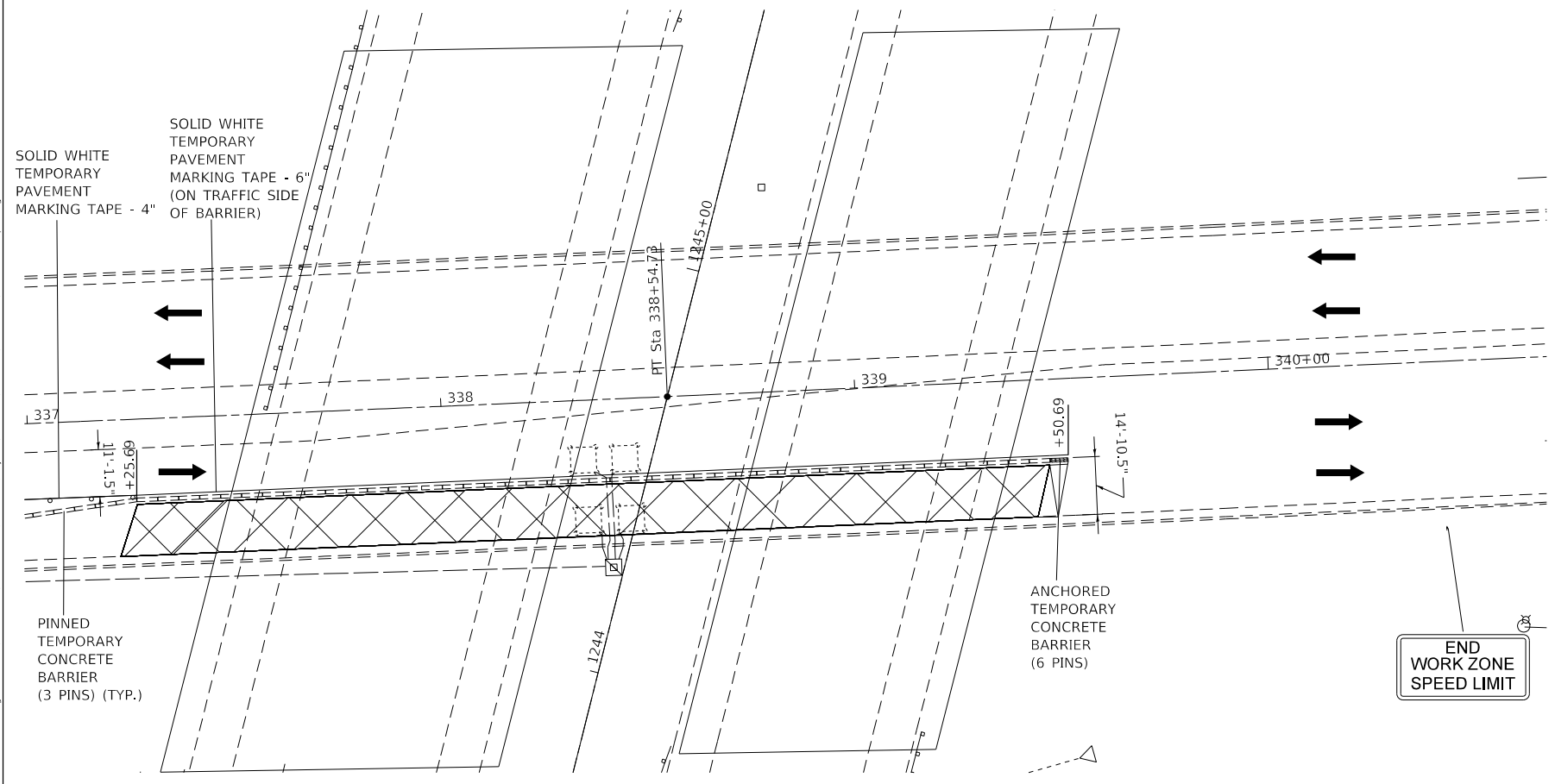
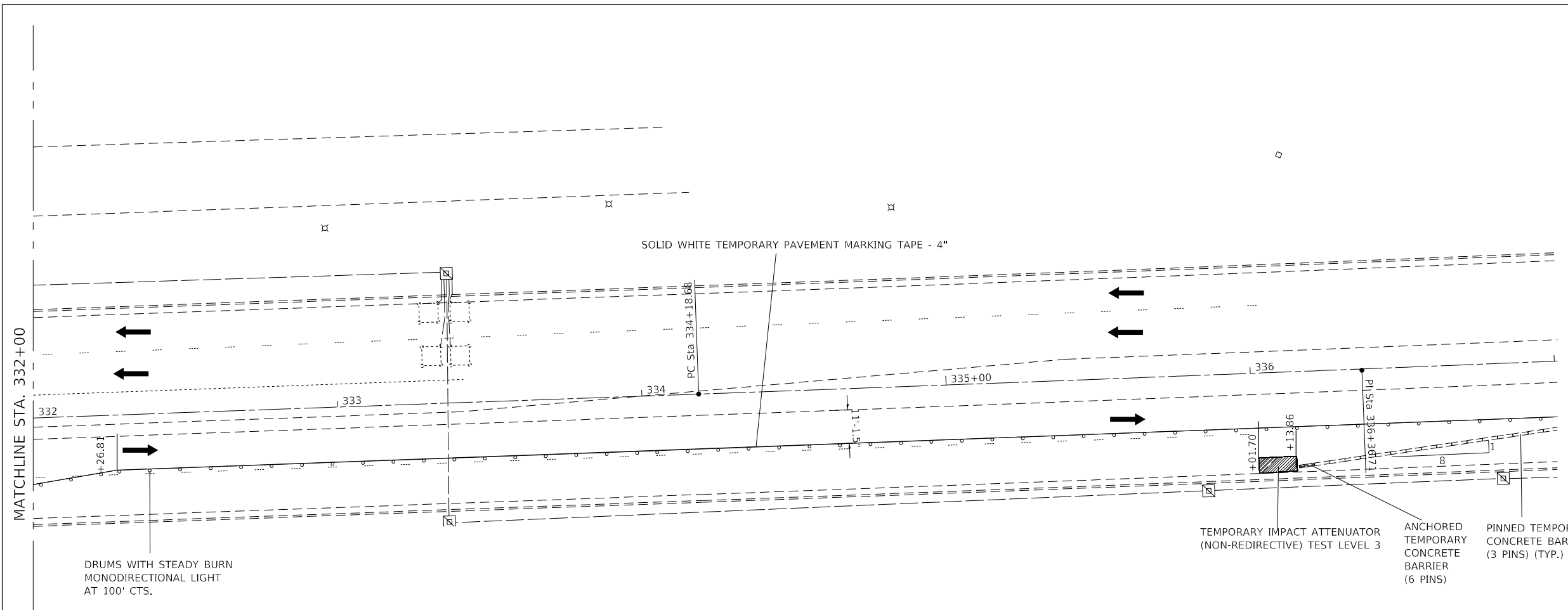
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 CONSTRUCTION
AND TRAFFIC CONTROL**

SCALE: 1" = 20' SHEET 3 OF 11 SHEETS STA. 326+00 TO STA. 332+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	11
				CONTRACT NO. 76L99

ILLINOIS FED. AID PROJECT



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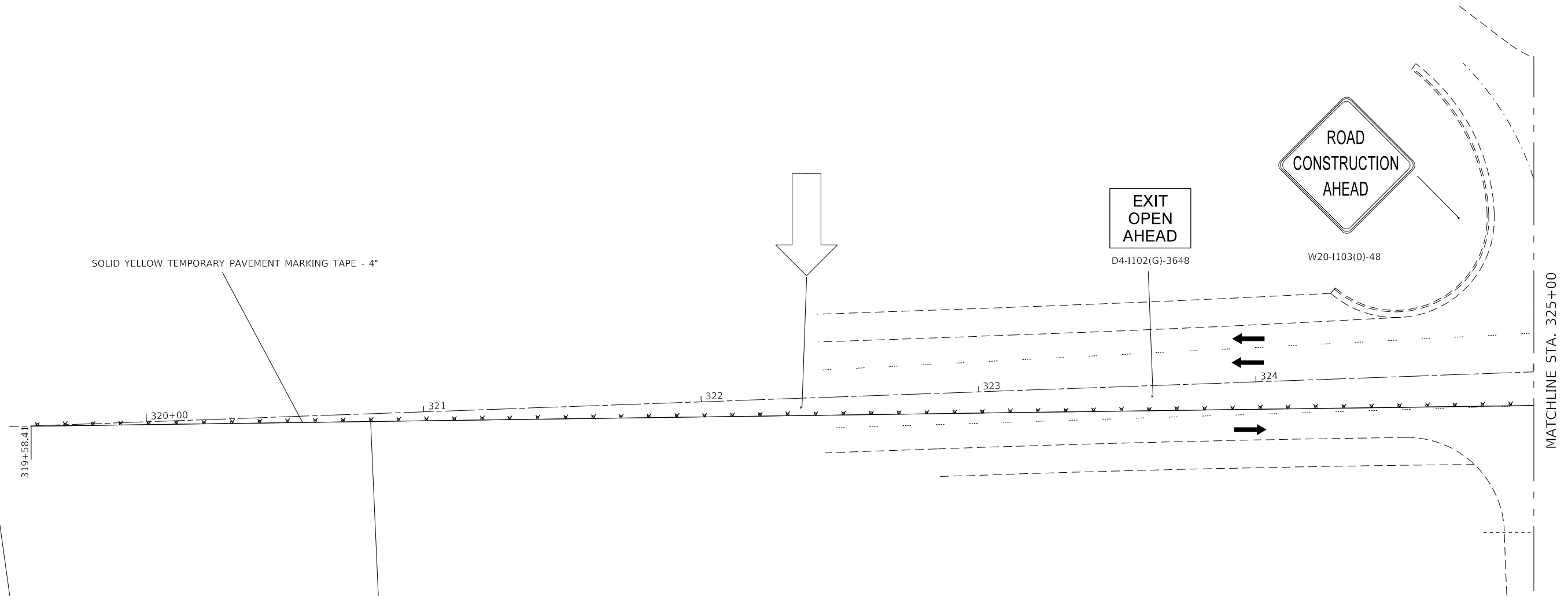
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DRAWN -	REVISED -	
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PLOT DATE = 10/5/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 CONSTRUCTION
AND TRAFFIC CONTROL**

SCALE: 1" = 20' SHEET 4 OF 11 SHEETS STA. 332+00 TO STA. 340+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	12
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				



SOLID YELLOW TEMPORARY PAVEMENT MARKING TAPE - 4"

EXIT
OPEN
AHEAD

D4-1102(G)-3648

ROAD
CONSTRUCTION
AHEAD

W20-1103(0)-48

MATCHLINE STA. 325+00








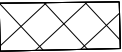
SEE STAGE 2 APPROACH SIGNING
ON STAGE CONSTRUCTION AND
TRAFFIC CONTROL SHEET 9

DIRECTION INDICATOR BARRICADE WITH STEADY
BURN MONODIRECTIONAL LIGHT AT 50' CTS.

NOTES

1. THIS TRAFFIC CONTROL PLAN IS USED FOR LANE CLOSURES DAY AND NIGHT OPERATIONS.
2. ANY PERMANENT PAVEMENT MARKING THAT CONFLICTS WITH THE PROPOSED TRAFFIC CONTROL STAGINGS SHALL BE COVERED USING BLACKOUT TAPE.
3. TEMPORARY CONCRETE BARRIER SECTIONS SHALL BE CONNECTED TO EACH OTHER IN ACCORDANCE WITH HIGHWAY STANDARD 704001.
4. IF THERE EXISTS ANY RAISED PAVEMENT MARKERS THAT CONFLICT WITH THIS TRAFFIC CONTROL SETUP, THE CONTRACTOR SHALL COVER THE MARKERS AND REMOVE THE COVER WHEN THE CONFLICT NO LONGER EXISTS. THE METHOD OF COVERING AND REMOVAL SHALL BE APPROVED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

LEGEND

- | | |
|---|---|
|  |  |
| DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT | DRUM WITH STEADY BURNING BIDIRECTIONAL LIGHT |
|  |  |
| DIRECTION OF TRAFFIC | ARROW BOARD TYPE C |
|  |  |
| TEMPORARY IMPACT ATTENUATOR | ANCHORED TEMPORARY CONCRETE BARRIER (6 PINS) |
|  |  |
| PINNED TEMPORARY CONCRETE BARRIER (3 PINS) | WORK AREA |

MODEL: Default
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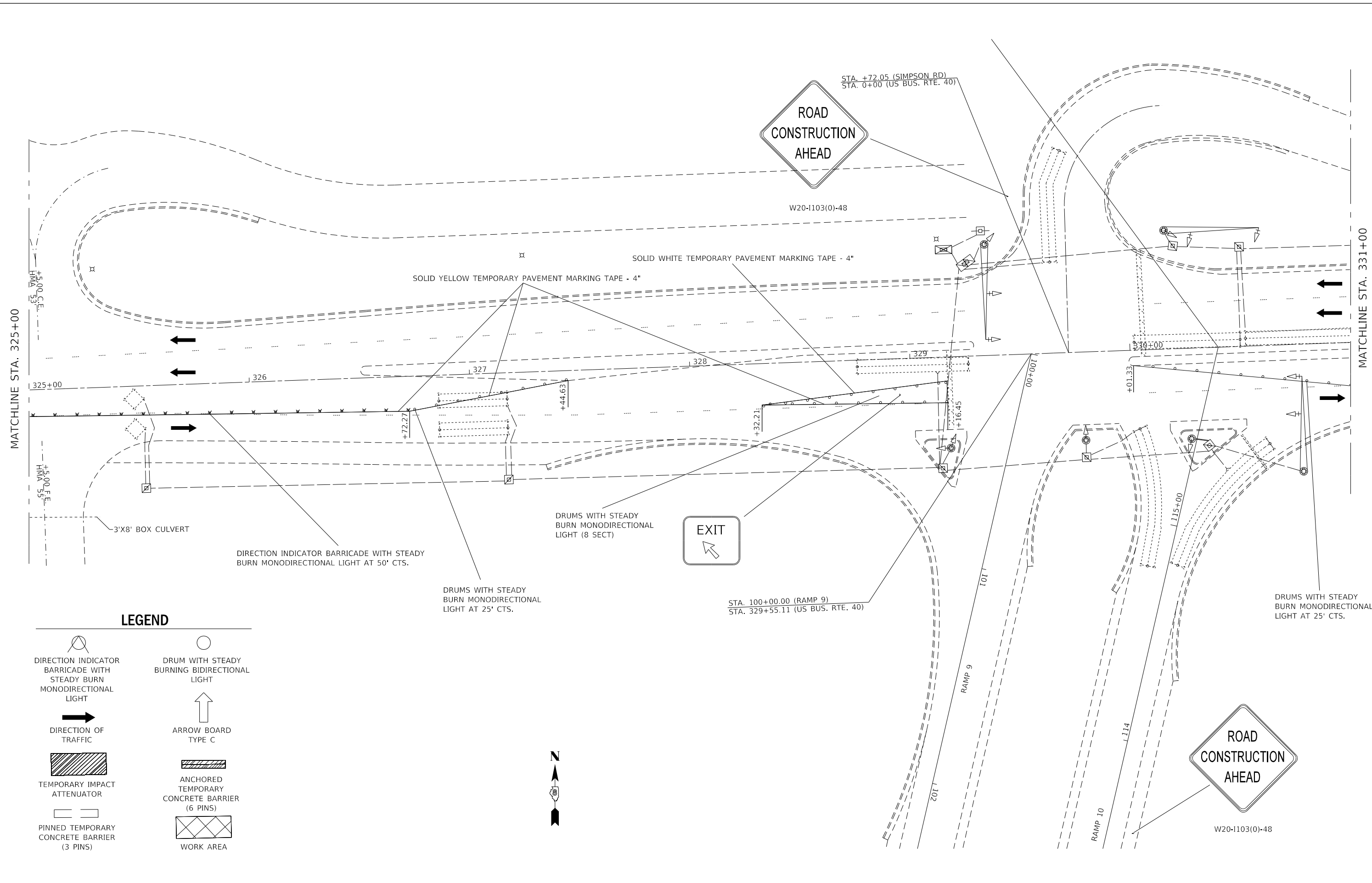
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION
AND TRAFFIC CONTROL





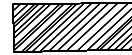
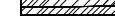

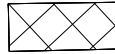
SCALE: 1" = 20' SHEET 5 OF 11 SHEETS STA. 319+50 TO STA. 325+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	13
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				

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LEGEND

- | | |
|---|---|
|  |  |
| DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT | DRUM WITH STEADY BURNING BIDIRECTIONAL LIGHT |
|  |  |
| DIRECTION OF TRAFFIC | ARROW BOARD TYPE C |
|  |  |
| TEMPORARY IMPACT ATTENUATOR | ANCHORED TEMPORARY CONCRETE BARRIER (6 PINS) |
|  |  |
| PINNED TEMPORARY CONCRETE BARRIER (3 PINS) | WORK AREA |



USER NAME = heppjd	DESIGNED -	REVISED -
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PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

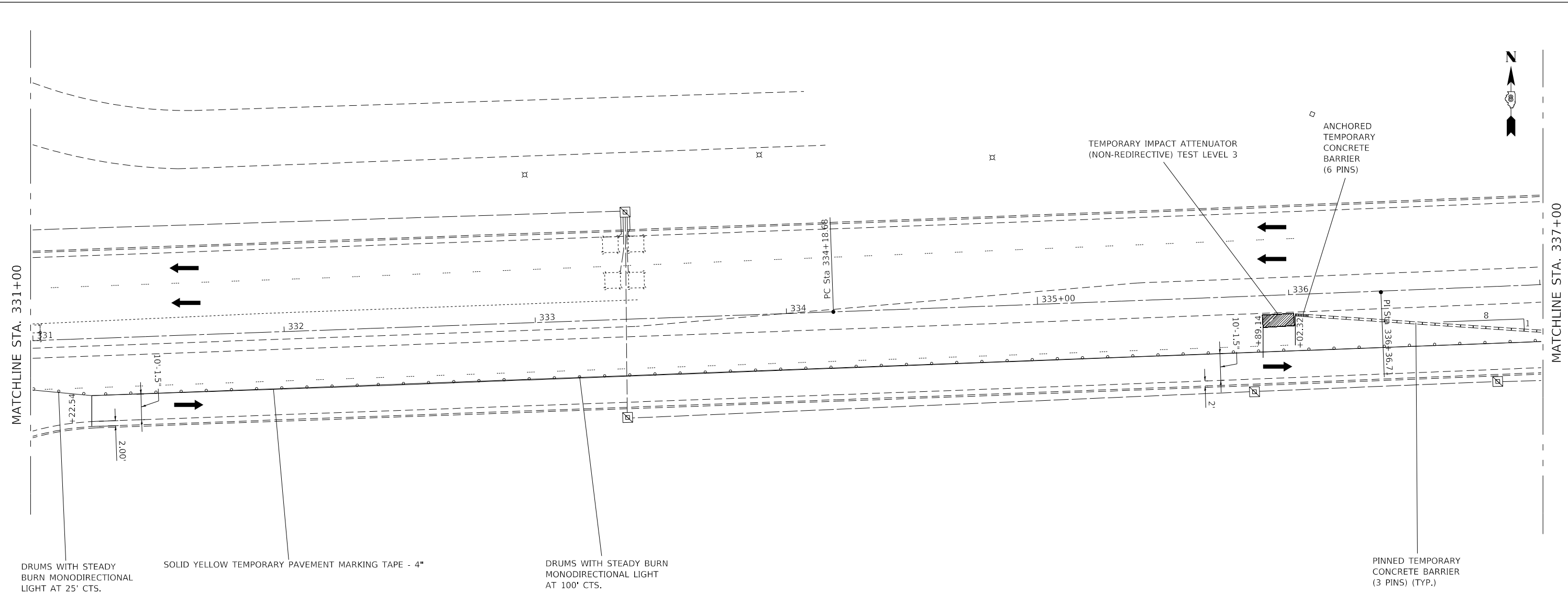
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 2 CONSTRUCTION AND TRAFFIC CONTROL

SCALE: 1" = 20' SHEET 6 OF 11 SHEETS STA. 325+00 TO STA. 331+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	14
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				

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DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT AT 25' CTS.

SOLID YELLOW TEMPORARY PAVEMENT MARKING TAPE - 4"

DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT AT 100' CTS.

PINNED TEMPORARY CONCRETE BARRIER (3 PINS) (TYP.)

LEGEND

DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT	DRUM WITH STEADY BURNING BIDIRECTIONAL LIGHT
DIRECTION OF TRAFFIC	ARROW BOARD TYPE C
TEMPORARY IMPACT ATTENUATOR	ANCHORED TEMPORARY CONCRETE BARRIER (6 PINS)
PINNED TEMPORARY CONCRETE BARRIER (3 PINS)	WORK AREA

USER NAME = heppjd	DESIGNED -	REVISED -
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PLOT DATE = 10/5/2018	DATE -	REVISED -

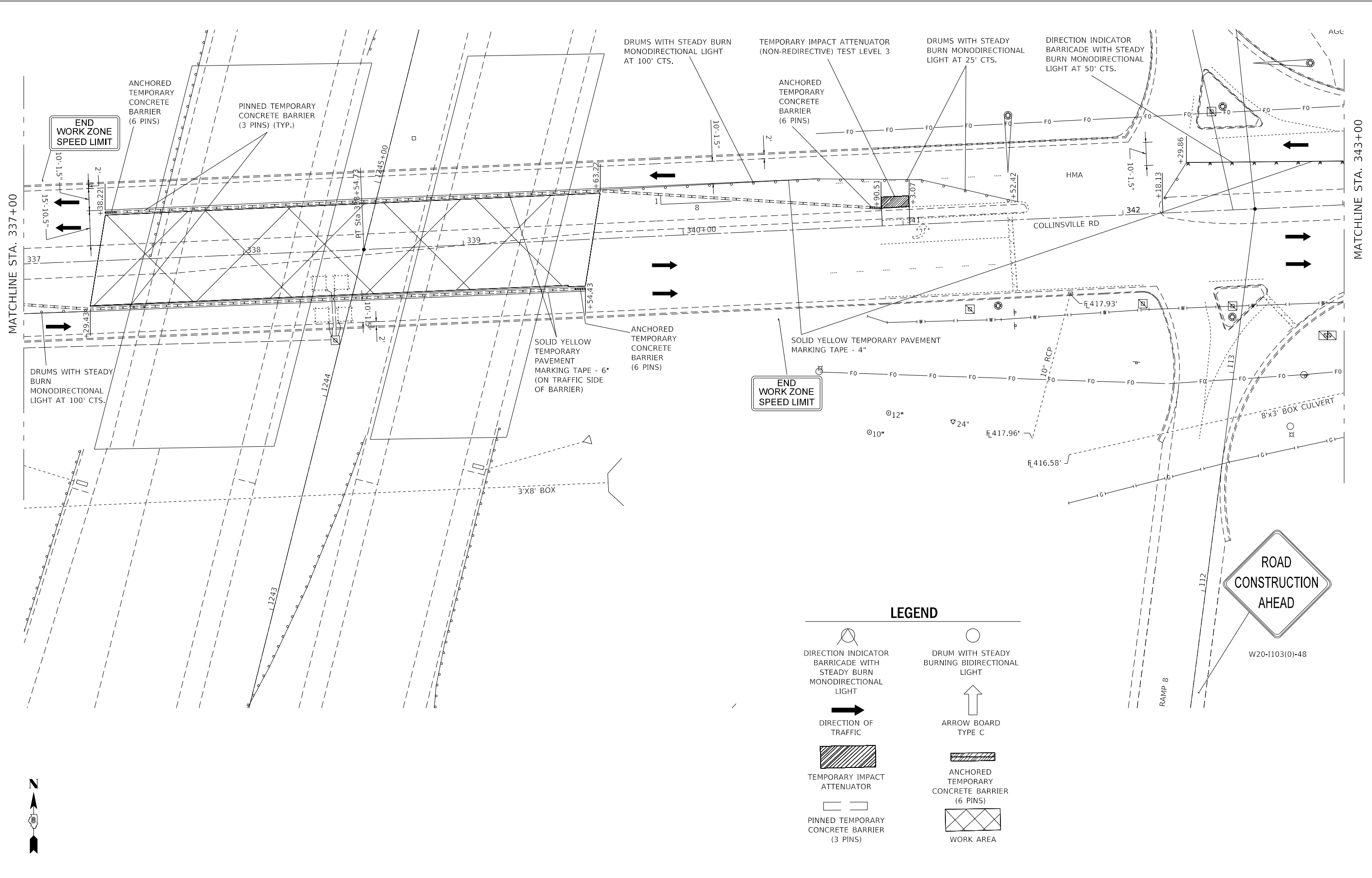
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 CONSTRUCTION
AND TRAFFIC CONTROL**

SCALE: 1" = 20' SHEET 7 OF 11 SHEETS STA. 331+00 TO STA. 337+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	15
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				

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LEGEND

- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION OF TRAFFIC
- TEMPORARY IMPACT ATTENUATOR
- PINNED TEMPORARY CONCRETE BARRIER (3 PINS)
- DRUM WITH STEADY BURNING BIDIRECTIONAL LIGHT
- ARROW BOARD TYPE C
- ANCHORED TEMPORARY CONCRETE BARRIER (6 PINS)
- WORK AREA

USER NAME = heppjd	DESIGNED -	REVISED -
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PLOT DATE = 10/5/2018	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

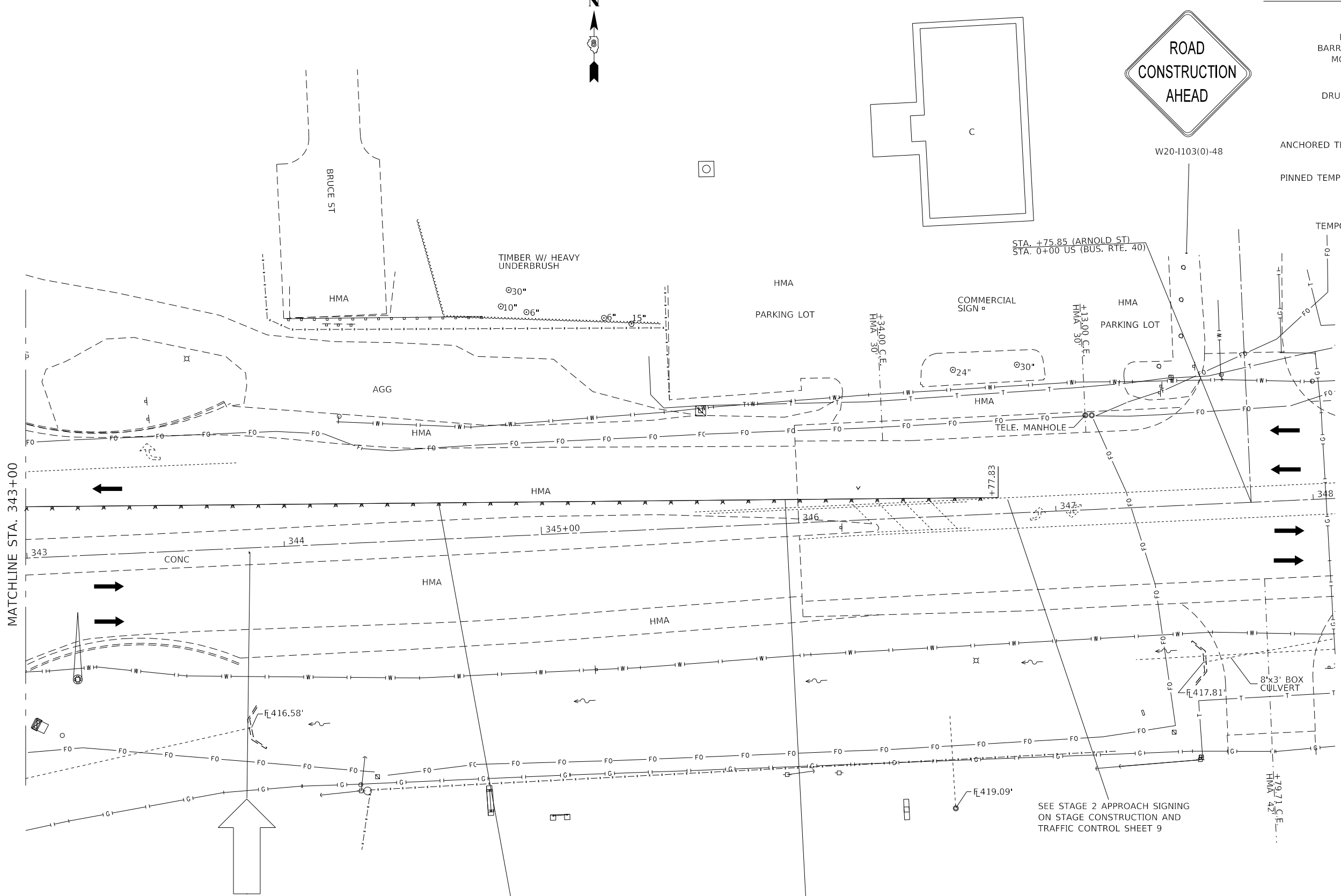
**STAGE 2 CONSTRUCTION
 AND TRAFFIC CONTROL**

SCALE: 1" = 20' SHEET 8 OF 11 SHEETS STA. 337+00 TO STA. 343+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	16
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				



LEGEND	
	DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
	DRUM WITH STEADY BURNING BIDIRECTIONAL LIGHT
	ANCHORED TEMPORARY CONCRETE BARRIER (6 PINS)
	PINNED TEMPORARY CONCRETE BARRIER (3 PINS)
	TEMPORARY IMPACT ATTENUATOR
	WORK AREA
	DIRECTION OF TRAFFIC
	ARROW BOARD TYPE C



DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT AT 50' CTS. SOLID YELLOW TEMPORARY PAVEMENT MARKING TAPE - 4"

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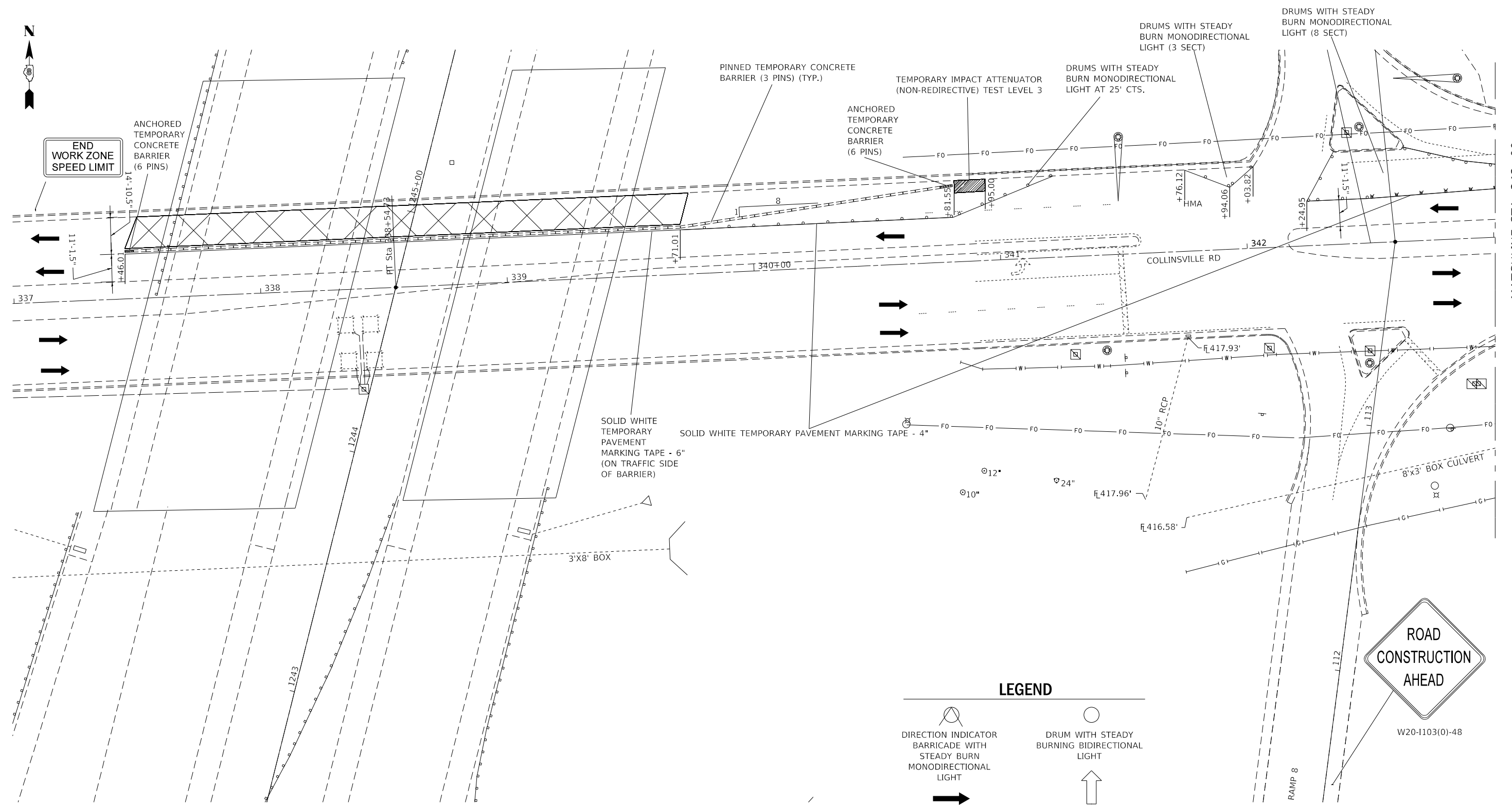
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	DRAWN -	REVISED -
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PLOT DATE = 10/5/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 CONSTRUCTION
AND TRAFFIC CONTROL**

SCALE: 1" = 20' SHEET 9 OF 11 SHEETS STA. 343+00 TO STA. 348+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255		MADISON	27	17
CONTRACT NO. 76L99				
		ILLINOIS	FED. AID PROJECT	



END WORK ZONE SPEED LIMIT

ANCHORED TEMPORARY CONCRETE BARRIER (6 PINS)

PINNED TEMPORARY CONCRETE BARRIER (3 PINS) (TYP.)

ANCHORED TEMPORARY CONCRETE BARRIER (6 PINS)

TEMPORARY IMPACT ATTENUATOR (NON-REDIRECTIVE) TEST LEVEL 3

DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT AT 25' CTS.

DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (3 SECT)

DRUMS WITH STEADY BURN MONODIRECTIONAL LIGHT (8 SECT)

SOLID WHITE TEMPORARY PAVEMENT MARKING TAPE - 6" (ON TRAFFIC SIDE OF BARRIER)

SOLID WHITE TEMPORARY PAVEMENT MARKING TAPE - 4"



LEGEND

- DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURNING BIDIRECTIONAL LIGHT
- ARROW BOARD TYPE C
- DIRECTION OF TRAFFIC
- TEMPORARY IMPACT ATTENUATOR
- ANCHORED TEMPORARY CONCRETE BARRIER (6 PINS)
- PINNED TEMPORARY CONCRETE BARRIER (3 PINS)
- WORK AREA

NOTES

1. THIS TRAFFIC CONTROL PLAN IS USED FOR LANE CLOSURES DAY AND NIGHT OPERATIONS.
2. ANY PERMANENT PAVEMENT MARKING THAT CONFLICTS WITH THE PROPOSED TRAFFIC CONTROL STAGINGS SHALL BE COVERED USING BLACKOUT TAPE.
3. TEMPORARY CONCRETE BARRIER SECTIONS SHALL BE CONNECTED TO EACH OTHER IN ACCORDANCE WITH HIGHWAY STANDARD 704001.
4. IF THERE EXISTS ANY RAISED PAVEMENT MARKERS THAT CONFLICT WITH THIS TRAFFIC CONTROL SETUP, THE CONTRACTOR SHALL COVER THE MARKERS AND REMOVE THE COVER WHEN THE CONFLICT NO LONGER EXISTS. THE METHOD OF COVERING AND REMOVAL SHALL BE APPROVED BY THE ENGINEER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

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	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 10/5/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 3 CONSTRUCTION
AND TRAFFIC CONTROL**

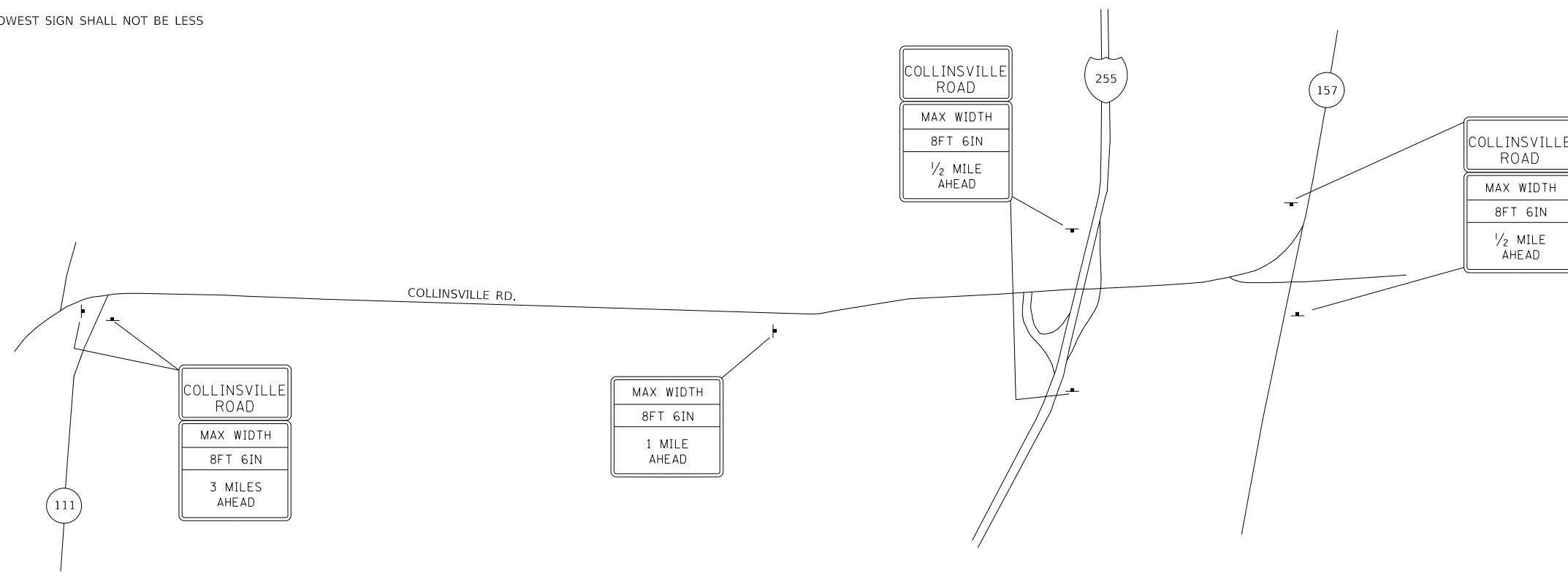
SCALE: 1" = 20' SHEET 10 OF 11 SHEETS STA. 337+00 TO STA. 343+00

F.A.I. RTE. 255	SECTION 60-78P-1	COUNTY MADISON	TOTAL SHEETS 27	SHEET NO. 18
CONTRACT NO. 76L99			ILLINOIS FED. AID PROJECT	

MATCHLINE STA. 343+00

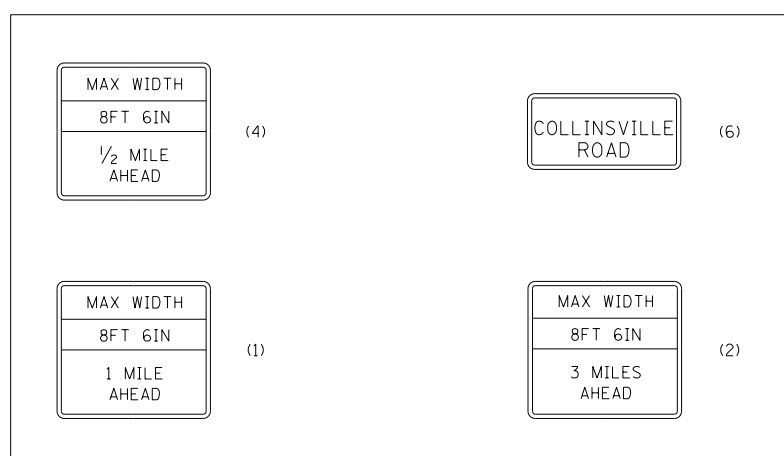
NOTES

1. ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE R.E./R.T. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HGTS., AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE @ 616-394-2189
4. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR WIDE LOAD SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
5. SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
6. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.



NOT TO SCALE

SIGNS REQUIRED



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PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

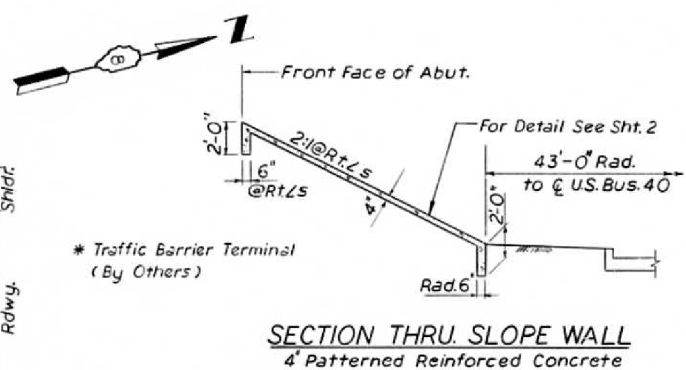
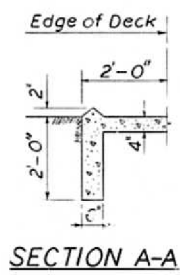
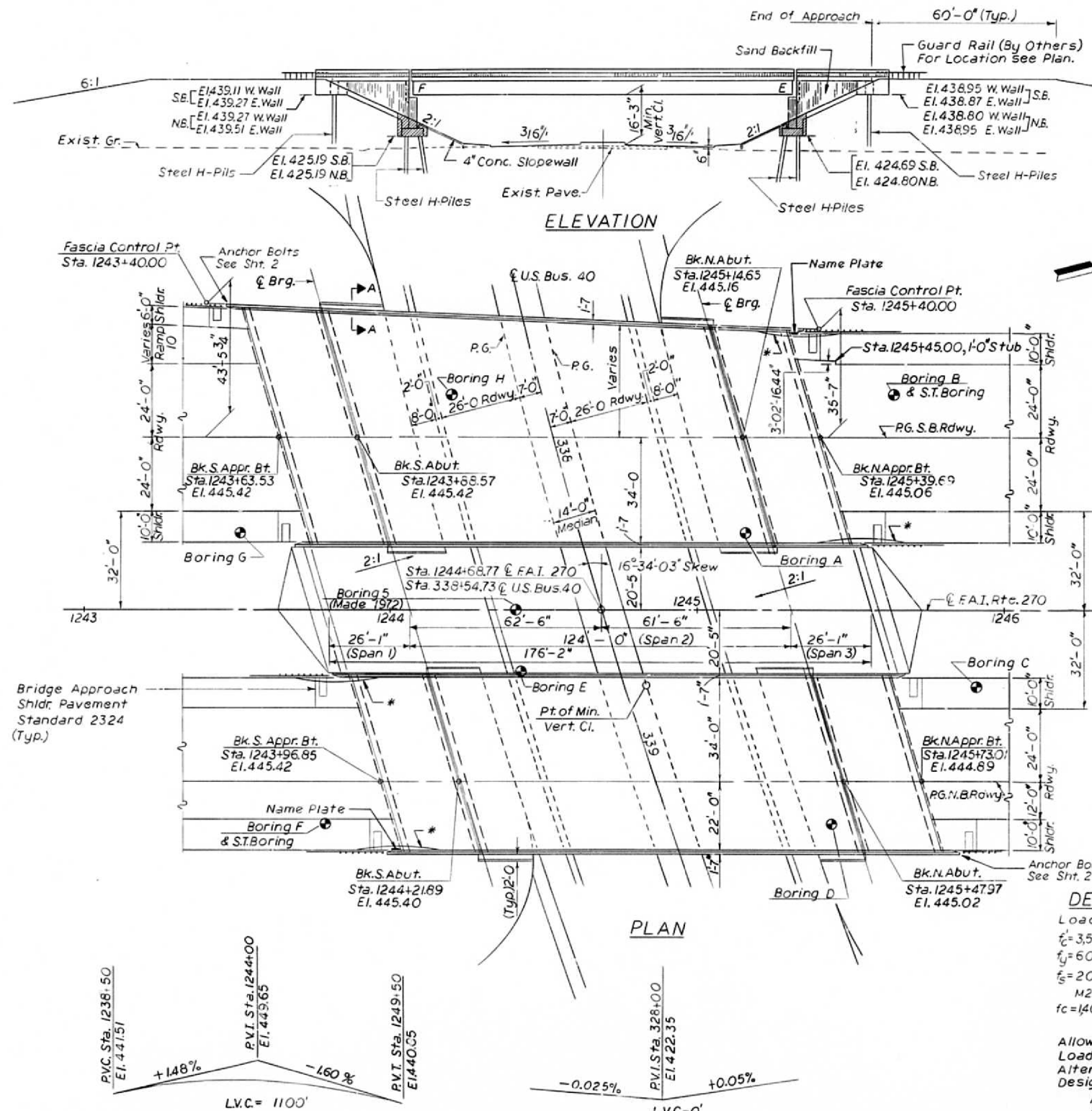
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WIDE LOAD SIGNING COLLINSVILLE RD UNDER I-255		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		255	60-7BP-1	MADISON	27	20
SCALE: NTS	SHEET 1	OF 1	SHEETS	STA.	TO STA.	

B.M. #12-20 D Nail S. Side Tel. Pole
NE Cor. Arnold St. & U.S. Bus. 40
El. 422.09

Sht. 1
of 17

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7HB-4	MADISON	73	57
F.A.I. PROJ. NO. 7 ILLINOIS PROJ.				

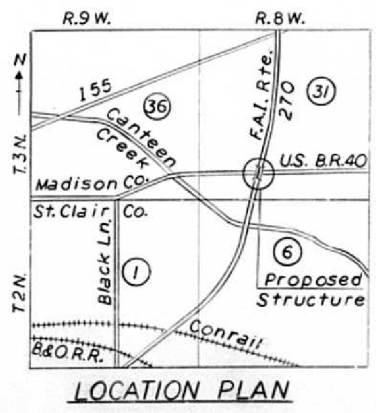


STATION 1244+68.77
BUILT 198 BY
STATE OF ILLINOIS
F.A.I. RT. 255 SEC. 60-7HB-4
F.A. PROJ. 12-255-7 (276)
LOADING HS20 & ALT.
STR. NO.

NAME PLATE
STANDARD 2113
(STRUCTURE NUMBER to be
supplied by District)

DESIGN STRESSES
Load Factor Design for Slab
 $f'_c = 3,500$ p.s.i.
 $f'_s = 60,000$ p.s.i. Reinf.
 $f'_s = 20,000$ p.s.i. M183, 27,000 p.s.i. M222 & M223 G50 (Struct. Steel)
 $f_c = 1400$ p.s.i. $f_s = 24,000$ p.s.i. (Substruct.)

Allow 25 p.s.f. for Fut. W.S.
Loading: HS20-44 or
Alternate Military Loading
Design Specifications:
A.A.S.H.T.O. 1977 (Service Load
Design) & Applicable Interims,
1978, '79 & '80.



- GENERAL NOTES**
- See Proposal for Boring Data.
 - Fasteners shall be AASHTO M-164 high strength bolts. Bolt and hole sizes as shown on Dwg.
 - Calculated weight of Structural Steel = M183-271100 lbs. M222-139380 lbs. M223(Gr-50)-175700 lbs.
 - The zinc-silicate and vinyl paint system shall be used for shop and field painting of Structural Steel. See Special Provisions.
 - Field welding of construction accessories will not be permitted to the bottom flange of girders. Field welding in other areas will be permitted only when approved by the Engineer.
 - Anchor bolts shall be set before bolting cross frames over supports.
 - Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x 14.0, weighing 58 lbs. per 100 sq. ft.
 - The contractor shall drive one (1) Steel test pile in a permanent location at each Abutment as directed by the Engineer before ordering the remainder of piles.
 - The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
 - The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges of the steel girders.
 - Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.
 - All Structural Steel (including Bearings and Nosing angles @ Deck Joints) is AASHTO M-163 except all Girder Flange Plates shall be AASHTO M-222 and M-223 (G-50).

FOR INFORMATION ONLY

BILL OF MATERIAL

ITEM	UNIT	SUB. STRUCT.	SUPER STRUCT.	TOTAL
STRUCTURE EXCAVATION	CU. YD.	1174.7	—	1174.7
STRUCTURAL STEEL	L.S.	—	1	1
CLASS "X" CONCRETE	CU. YD.	765.4	808.4	1573.8
REINFORCEMENT BARS	LB.	73800	47,740	121,540
REINF. BARS (EPOXY COATED)	LB.	—	141,810	141,810
PROTECTIVE COAT	SQ. YD.	—	2780	2780
PREFORMED JT. SEAL (2 1/2")	L.F.	—	143	143
PREFORMED JT. SEAL (4")	L.F.	—	138	138
STUD SHEAR CONNECTORS	EA.	—	5808	5808
ELASTOMERIC BRGS. TYPE I	EA.	—	16	16
NAME PLATES	EA.	—	2	2
SLOPEWALL (4 INCH)	SQ. YD.	781	—	781
STEEL PILES HP12x74	LIN. FT.	15,899	—	15,899
TEST PILES STEEL HP12x74	EA.	4	—	4
SAND BACK FILL	CU. YD.	1570	—	1570
CONDUIT SYSTEM	L.S.M.	—	1	1

ILLINOIS DIVISION OF HIGHWAYS

F.A.I. ROUTE 255
PROJECT _____ SECTION 60-7HB-4
MADISON COUNTY

GENERAL PLAN & ELEVATION
U.S. BUSINESS ROUTE 40 STA. 1244+68.77
Designed By: C.E.B. / Drawn By: G.S. / Quantities By: J.S.
Checked By: H.M. / Checked By: H.M. / Checked By: A.W.R.
Rev 3/13/89-JE Rev 3-6-84

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
C. E. Campbell
Engineer of Bridges and Structures

TORNROSE, CAMPBELL & ASSOCIATES

USER NAME = heppjd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/5/2018	DATE -	REVISED -

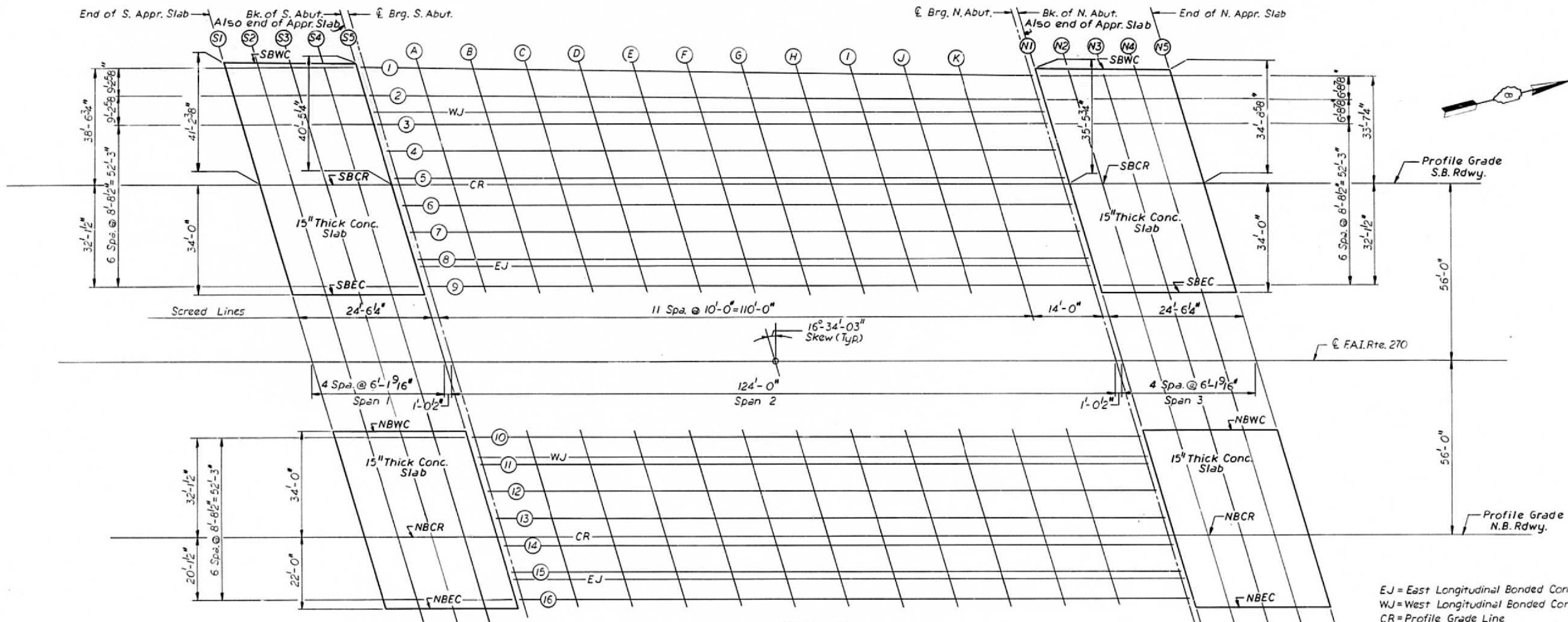
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURE DETAILS SN 060-0238 & 0239

SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	21
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				

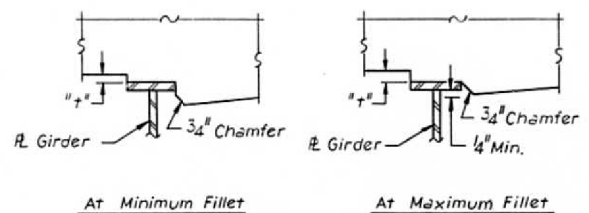
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 255	60-7HB-4	MADISON	73	59
FED. ROAD DIST. NO. 7 ILLINOIS PROJ.				



KEY PLAN

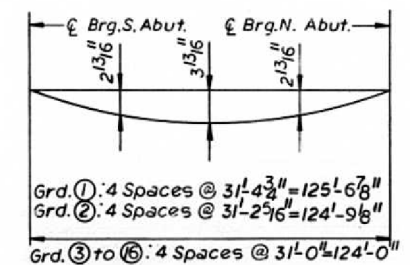
EJ = East Longitudinal Bonded Construction Joint
 WJ = West Longitudinal Bonded Construction Joint
 CR = Profile Grade Line
 SBWC = South Bound West Curb
 SBEC = South Bound East Curb
 SBCR = South Bound Roadway Crown
 NBWC = North Bound West Curb
 NBEC = North Bound East Curb
 NBCR = North Bound Roadway Crown

FOR INFORMATION ONLY



FILLET HEIGHTS

To Determine "t": After all structural steel has been erected, elevations of the Top flanges of the girders shall be taken at intervals shown on plan. These elevations subtracted from the Theoretical Grade Elevations Adjusted for Dead Load Deflection shown above, minus slab thickness equals the fillet heights "t" above top flange of girders.



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

This diagram applies to all girders. The deflections are not to be used in the field if the engineer is working from Theoretical Grade Elevations Adjusted for Dead Load Deflection.

SPAN 1

LINE	SCREED LINE	STATION	OFFSET	ELEVATION
51	SBWC	1243+51.75	41.4479	444.6104
	SBCR	1243+64.05	0.0000	445.4185
	SBEC	1243+74.19	34.0000	444.7754
	NBWC	1243+87.26	34.0000	444.7746
	NBCR	1243+97.37	0.0000	445.4165
	NBEC	1244+03.91	22.0000	445.0166
52	SBWC	1243+57.92	41.2001	444.6197
	SBCR	1243+70.18	0.0000	445.4204
	SBEC	1243+80.29	34.0000	444.7756
	NBWC	1243+93.39	34.0000	444.7726
	NBCR	1244+03.50	0.0000	445.4127
	NBEC	1244+10.04	22.0000	445.0118
53	SBWC	1243+64.13	40.9555	444.6278
	SBCR	1243+76.31	0.0000	445.4214
	SBEC	1243+86.42	34.0000	444.7748
	NBWC	1243+99.52	34.0000	444.7695
	NBCR	1244+09.63	0.0000	445.4079
	NBEC	1244+16.17	22.0000	445.0058
54	SBWC	1243+70.72	40.6953	444.6353
	SBCR	1243+82.83	0.0000	445.4212
	SBEC	1243+92.94	34.0000	444.7727
	NBWC	1244+06.04	34.0000	444.7651
	NBCR	1244+16.15	0.0000	445.4017
	NBEC	1244+22.69	22.0000	444.9984
55	SBWC	1243+76.53	40.4688	444.6408
	SBCR	1243+88.57	0.0000	445.4200
	SBEC	1243+98.68	34.0000	444.7700
	NBWC	1244+11.78	34.0000	444.7602
	NBCR	1244+21.89	0.0000	444.3952
	NBEC	1244+28.43	22.0000	444.9923

SPAN 3

LINE	SCREED LINE	STATION	OFFSET	ELEVATION
N1	SBWC	1245+04.11	35.4375	444.5250
	SBCR	1245+14.65	0.0000	445.1622
	SBEC	1245+24.76	34.0000	444.4764
	NBWC	1245+37.86	34.0000	444.4204
	NBCR	1245+47.97	0.0000	445.0197
	NBEC	1245+54.51	22.0000	444.5923
N2	SBWC	1245+10.31	35.1894	444.5250
	SBCR	1245+20.78	0.0000	445.1388
	SBEC	1245+30.89	34.0000	444.4508
	NBWC	1245+43.99	34.0000	444.3925
	NBCR	1245+54.10	0.0000	444.9901
	NBEC	1245+60.64	22.0000	444.5615
N3	SBWC	1245+16.51	34.9448	444.4895
	SBCR	1245+26.91	0.0000	445.1134
	SBEC	1245+37.02	34.0000	444.4241
	NBWC	1245+50.12	34.0000	444.3636
	NBCR	1245+60.23	0.0000	444.9594
	NBEC	1245+66.77	22.0000	444.5289
N4	SBWC	1245+22.72	34.7001	444.4701
	SBCR	1245+33.04	0.0000	445.0874
	SBEC	1245+43.18	34.0000	444.3964
	NBWC	1245+56.25	34.0000	444.3337
	NBCR	1245+66.36	0.0000	444.9277
	NBEC	1245+72.90	22.0000	444.4969
N5	SBWC	1245+28.92	34.4655	444.4497
	SBCR	1245+39.17	0.0000	445.0605
	SBEC	1245+49.28	34.0000	444.3676
	NBWC	1245+62.38	34.0000	444.3025
	NBCR	1245+72.49	0.0000	444.8950
	NBEC	1245+79.03	22.0000	444.4531

Work this sht. with sht. 4

ILLINOIS DIVISION OF HIGHWAYS

F.A.I. ROUTE 255

PROJECT _____ SECTION 60-7HB-4

MADISON COUNTY

DECK ELEVATION

KEY PLAN

Designed By: JS Drawn By: PC Quantities By: _____

Checked By: SK Checked By: S.K. Checked By: _____

TORNROSE, CAMPBELL & ASSOCIATES

USER NAME = heppjd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/5/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 060-0238 & 0239

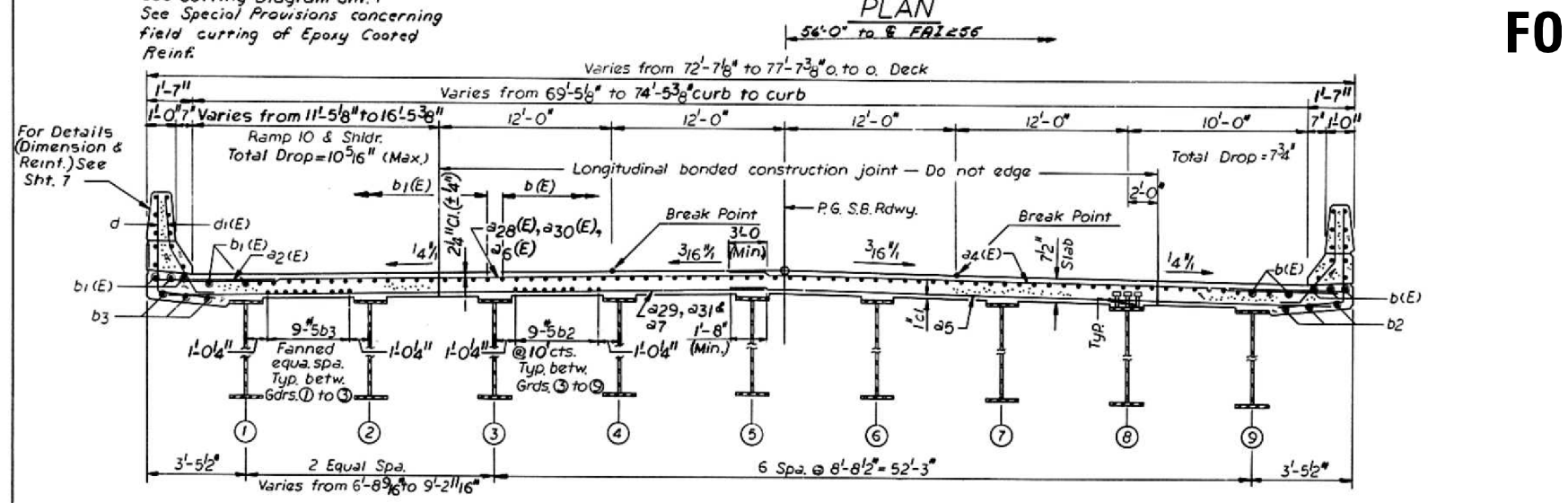
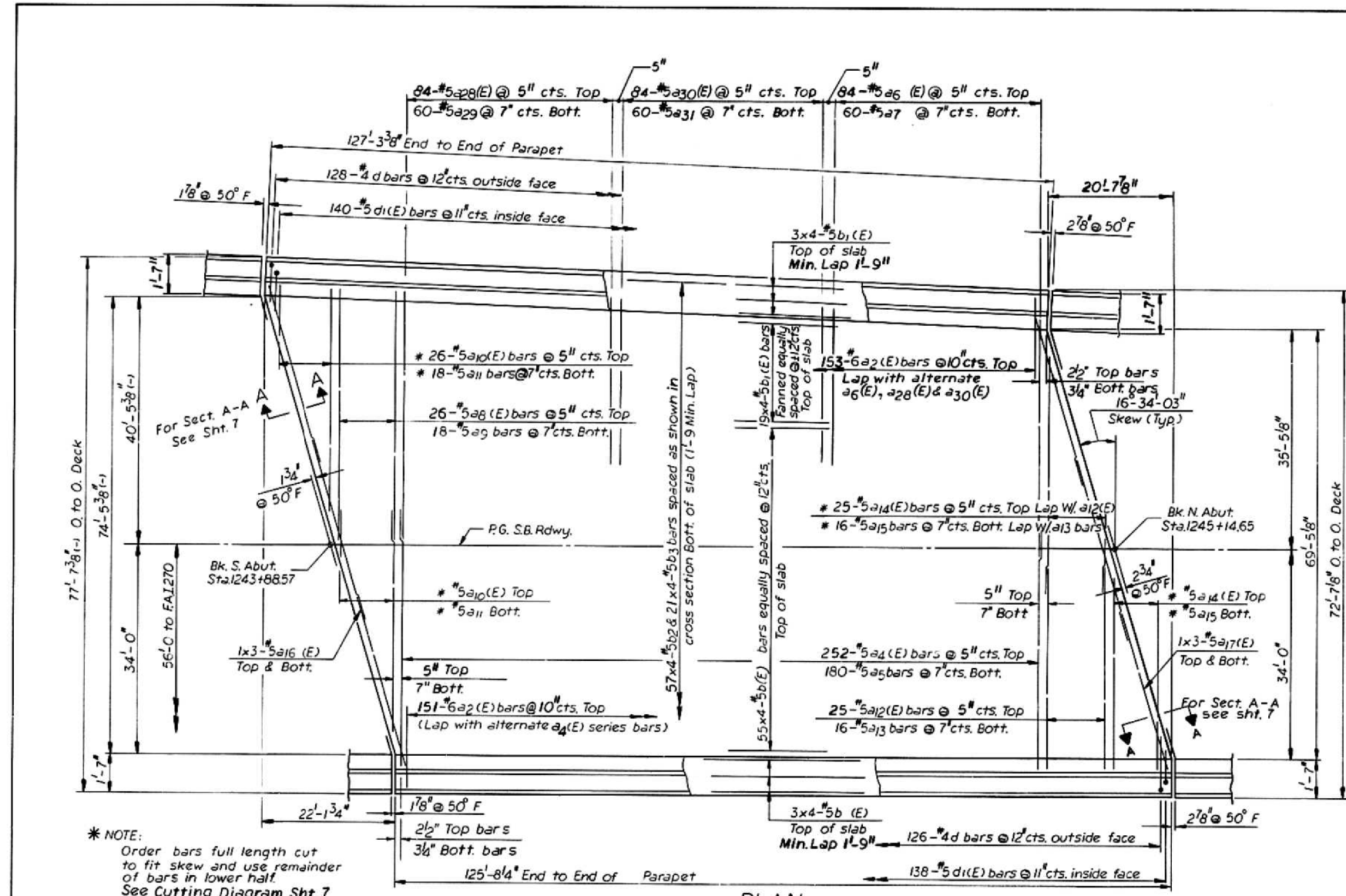
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	22
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				

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**SUPERSTRUCTURE
 BILL OF MATERIAL**

Bar	NB Rdwy. No.	S.B. Rdwy. No.	Size	Length	Shape
a(E)	524	—	#5	30'-2"	—
a1	374	—	#5	29'-5"	—
a2(E)	302	304	#6	4'-0"	—
a3(E)	8	—	#5	30'-8"	—
a4(E)	—	252	#5	38'-10"	—
a5	—	180	#5	38'-2"	—
a6(E)	—	84	#5	36'-2"	—
a7	—	60	#5	35'-8"	—
a8(E)	—	26	#5	35'-10"	—
a9	—	18	#5	39'-10"	—
a10(E)	—	26	#5	39'-7"	—
a11	—	18	#5	43'-8"	—
a12(E)	—	25	#5	33'-10"	—
a13	—	16	#5	29'-11"	—
a14(E)	—	25	#5	38'-0"	—
a15	—	16	#5	39'-6"	—
a16(E)	—	6	#5	27'-6"	—
a17(E)	—	6	#5	25'-9"	—
a24(E)	38	—	#5	33'-0"	—
a25	26	—	#5	36'-0"	—
a26(E)	38	—	#5	28'-11"	—
a27	26	—	#5	27'-4"	—
a28(E)	—	84	#5	38'-9"	—
a29	—	60	#5	38'-5"	—
a30(E)	—	84	#5	37'-5"	—
a31	—	60	#5	37'-0"	—
b(E)	248	232	#5	32'-9"	—
b1(E)	—	88	#5	33'-1"	—
b2	240	228	#5	32'-9"	—
b3	—	84	#5	33'-1"	—
b4	16	8	#8	33'-5"	—
b5(E)	8	4	#5	32'-8"	—
b6	—	8	#5	32'-8"	—
b6	—	8	#8	33'-9"	—
b7(E)	—	4	#5	33'-0"	—
b7	—	4	#5	33'-0"	—
d	252	254	#4	5'-8"	L
d1(E)	276	278	#5	3'-11"	L
e	—	42	#4	17'-11"	—
e1	84	42	#4	17'-8"	—
NB SB					
Reinforcement Bars (Epoxy Coated)	Lb	55,930	69,560		
Class x Concrete	Cu.Yd	208.4	257.8		
Structural Steel (Total)	Lb	253,330	322,358		
Stud Shear Connectors	Ea.	2,541	3,267		



FOR INFORMATION ONLY

For Notes See Sht. 6

All reinforcement bars in deck slab shall be epoxy coated.

Work this sht. with sht. 7

ILLINOIS DIVISION OF HIGHWAYS

F.A.I. ROUTE 255
 PROJECT SECTION 60-7HB-4
 MADISON COUNTY

S.B. RDWY. SUPERSTRUCTURE

Designed By: JS Drawn By: PC Quantities By: JS
 Checked By: HM Checked By: JS Checked By: A.W.R.
 Rev 3/13/84 JE

TORNROSE, CAMPBELL & ASSOCIATES

USER NAME = heppjd	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/5/2018	CHECKED -	REVISED -
	DATE -	REVISED -

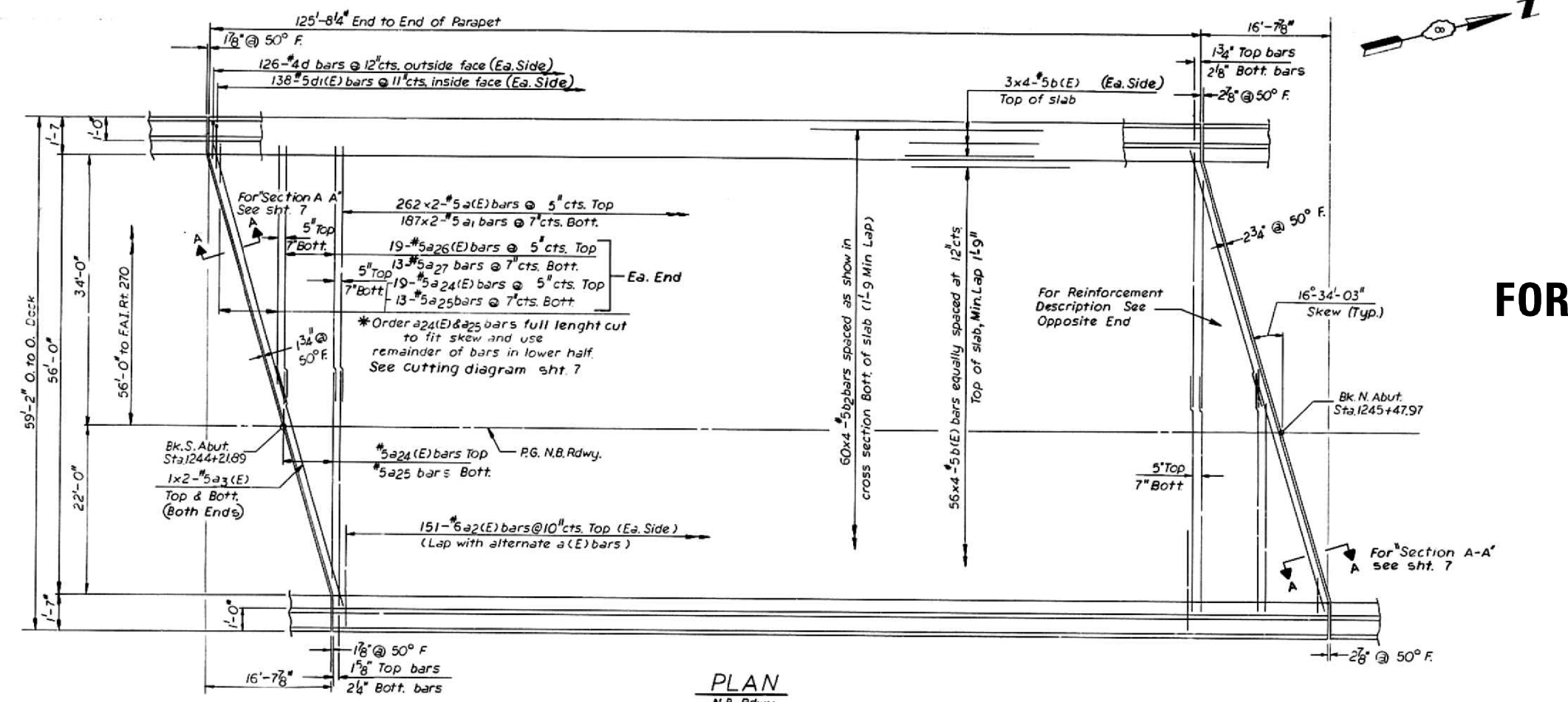
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 060-0239

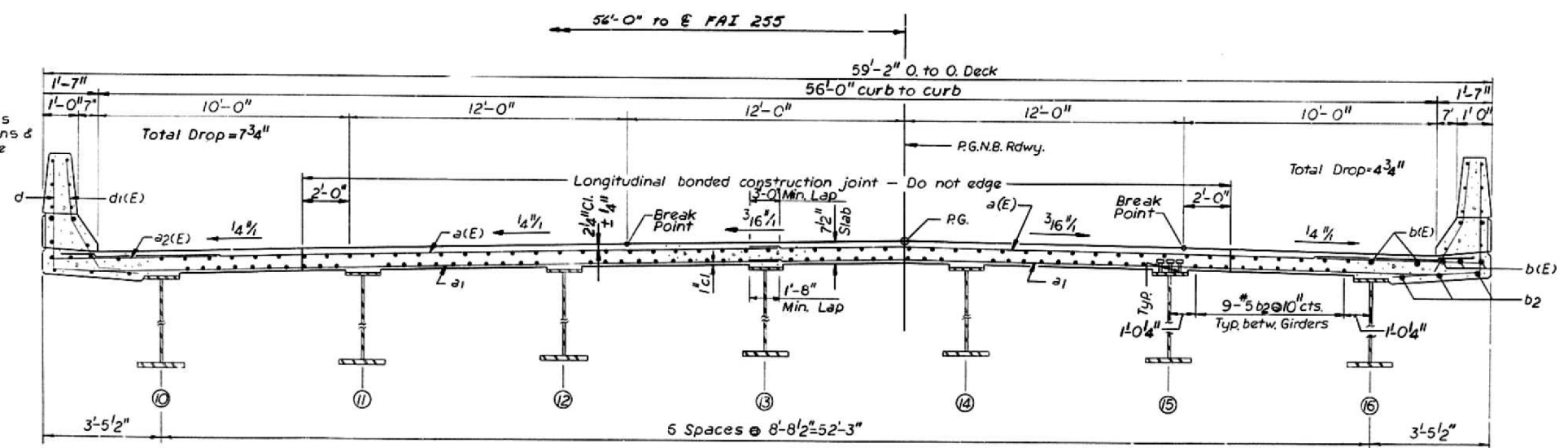
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7HB-1	MADISON	27	23
CONTRACT NO. 76L99				
		ILLINOIS	FED. AID PROJ.	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI. 255	60-7HB-4	MADISON	73	62
FED. ROAD DIST. NO. 7 ILL. PROJ.				



PLAN
N.B. Rdwy.



TYPICAL CROSS SECTION
(LOOKING NORTH)

FOR INFORMATION ONLY

NOTES:
 See sheet #7 for superstructure details.
 See sheet #5 for Bill of Material.
 Reinforcement bars in deck slab shall be epoxy coated. (All bars)
 Bars indicated thus 66 x 4 - #5 etc. indicates 66 lines of bars with 4 lengths per line.
 Reinf. Bar Laps as shown

Work this sht with shts. 5 & 7

ILLINOIS DIVISION OF HIGHWAYS			
F.A.I. ROUTE 255			
PROJECT		SECTION 60-7HB-4	
MADISON COUNTY			
N.B. RDWY. SUPERSTRUCTURE			
Designed By: JS	Drawn By: PC	Quantity By: JS	
Checked By: HM	Checked By: JS	Checked By: A.W.P.	

Rev 3/13/04 JE

USER NAME = heppjd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 10/5/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 060-0238

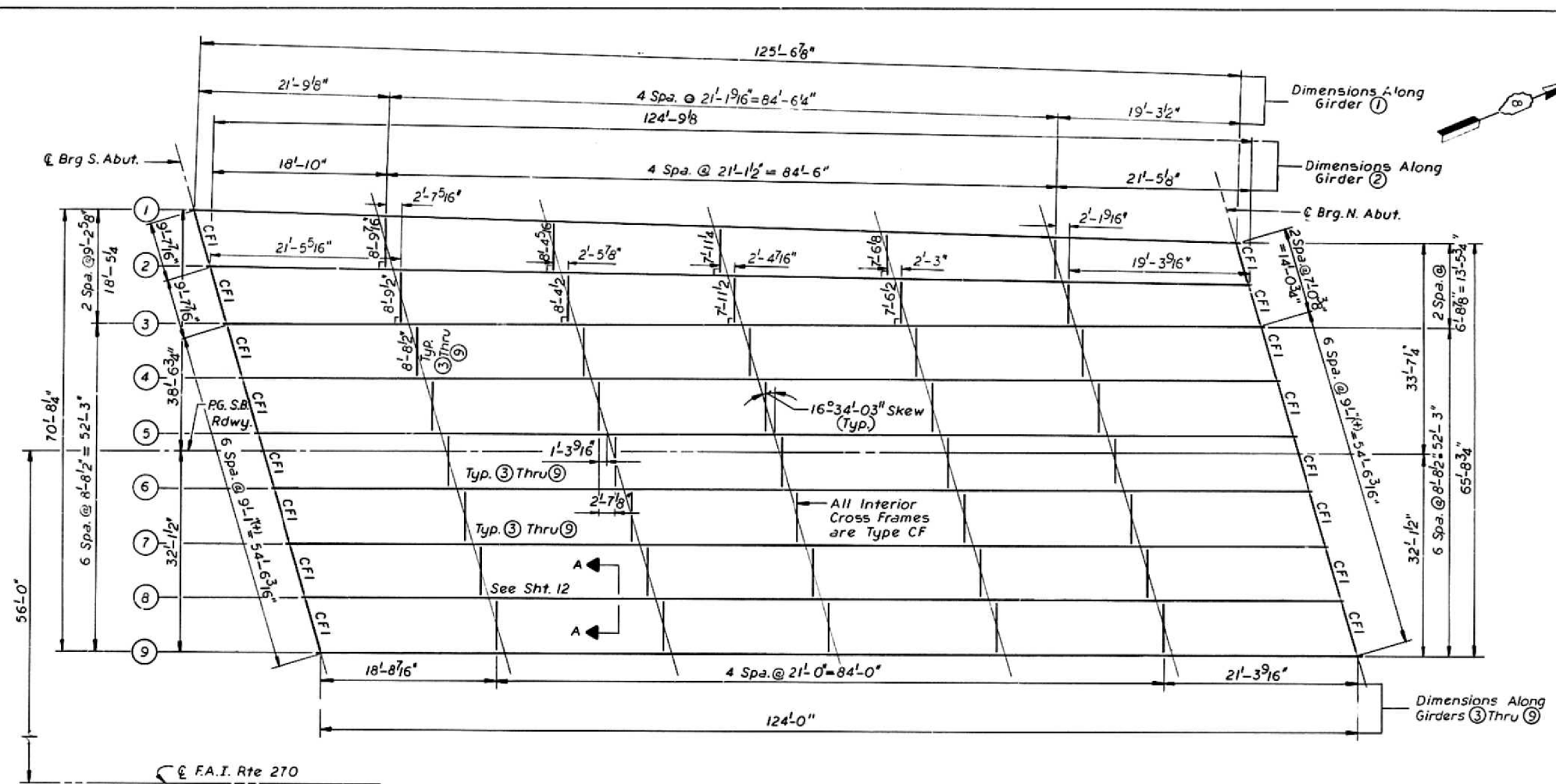
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	24
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				

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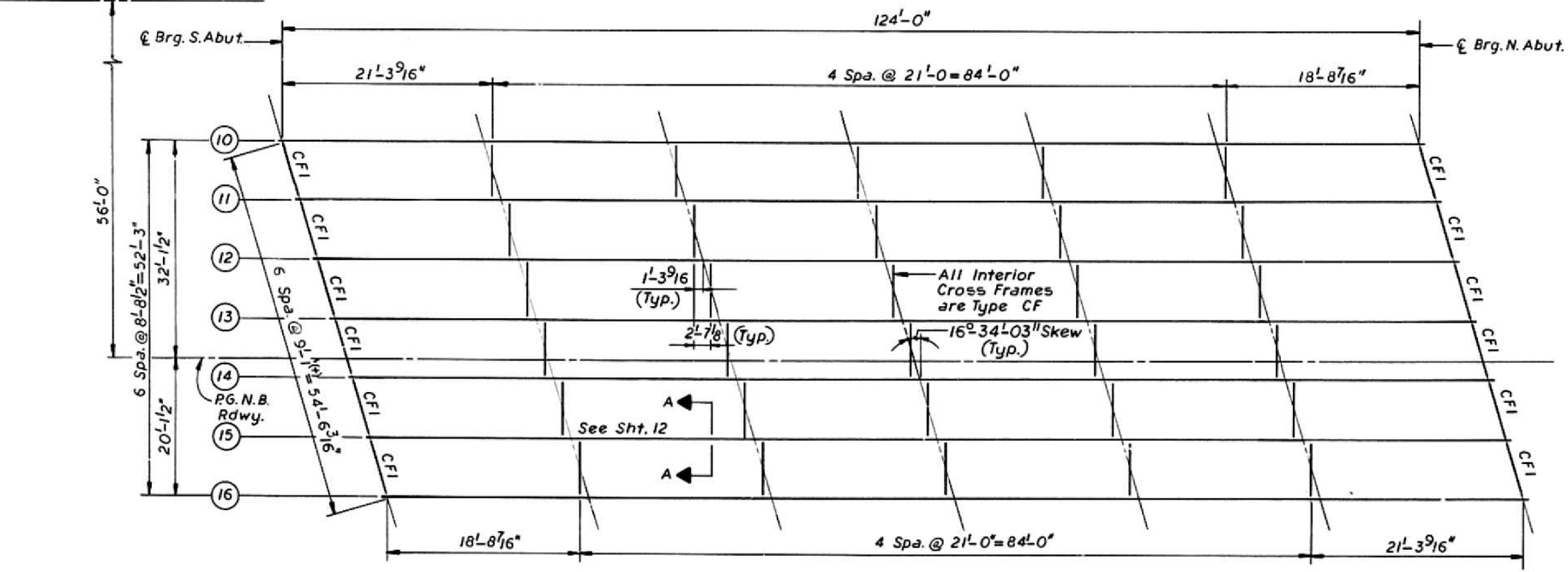
TORNROSE, CAMPBELL & ASSOCIATES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 255	60-7HB-4	MADISON	73	67
FED. ROAD DIST. NO. 7 ILLINOIS PROJ.				

Sht. 11
of 17



FOR INFORMATION ONLY



FRAMING PLAN

Work this sht. with sht. 12 & 13

ILLINOIS DIVISION OF HIGHWAYS			
F.A.I. ROUTE 255			
PROJECT	SECTION 60-7HB-4		
MADISON COUNTY			
STRUCTURAL STEEL			
FRAMING PLAN			
Designed By:	J.S.	Drawn By:	P.J.
Checked By:	H.M.	Checked By:	S.K.
Quantities By:		J.S.	
Checked By:		AWP	

TORNROSE, CAMPBELL & ASSOCIATES

USER NAME = heppjd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/5/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE DETAILS SN 060-0238 & 0239

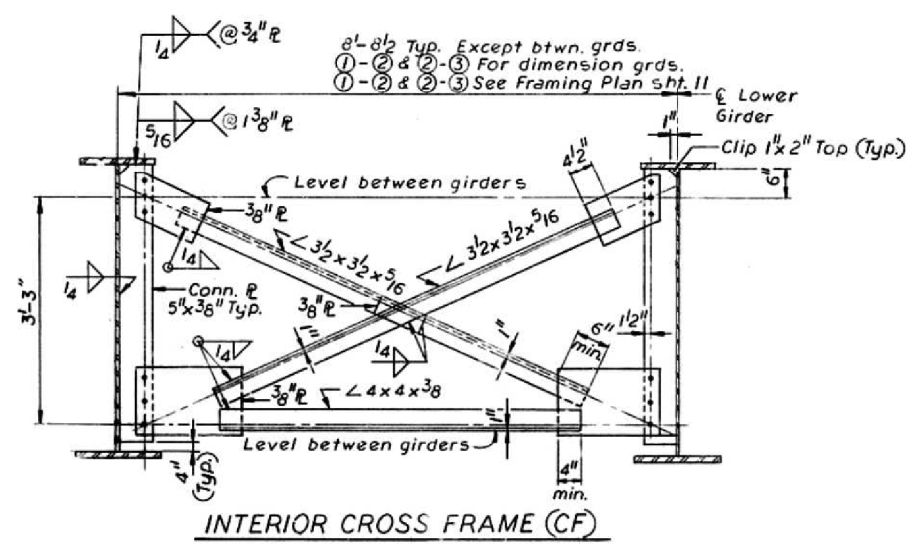
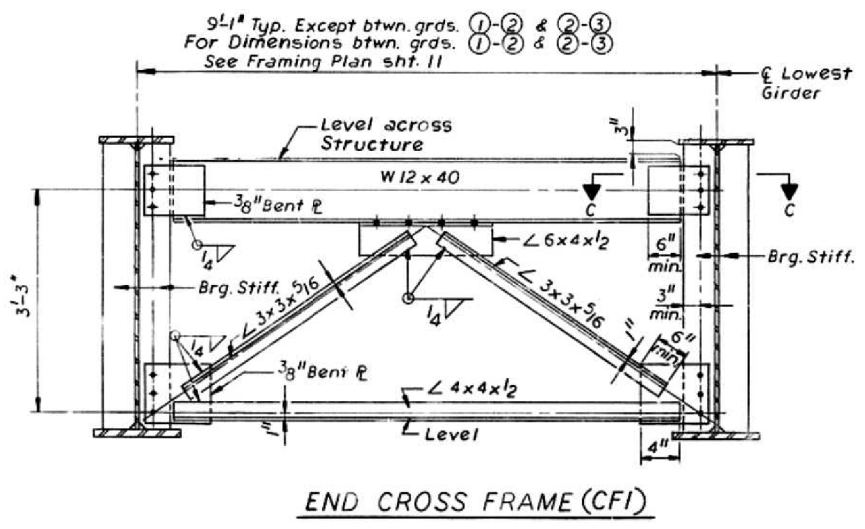
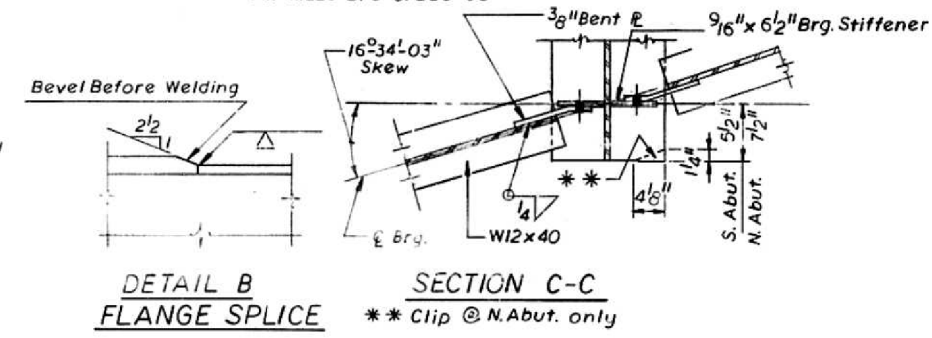
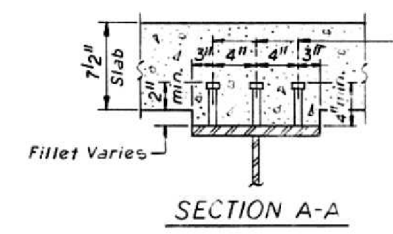
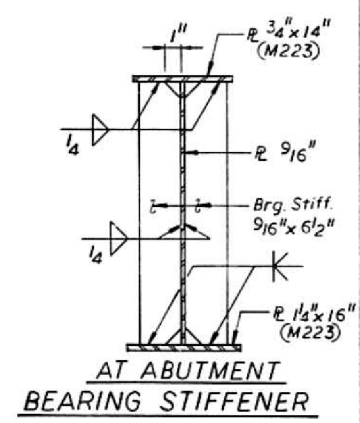
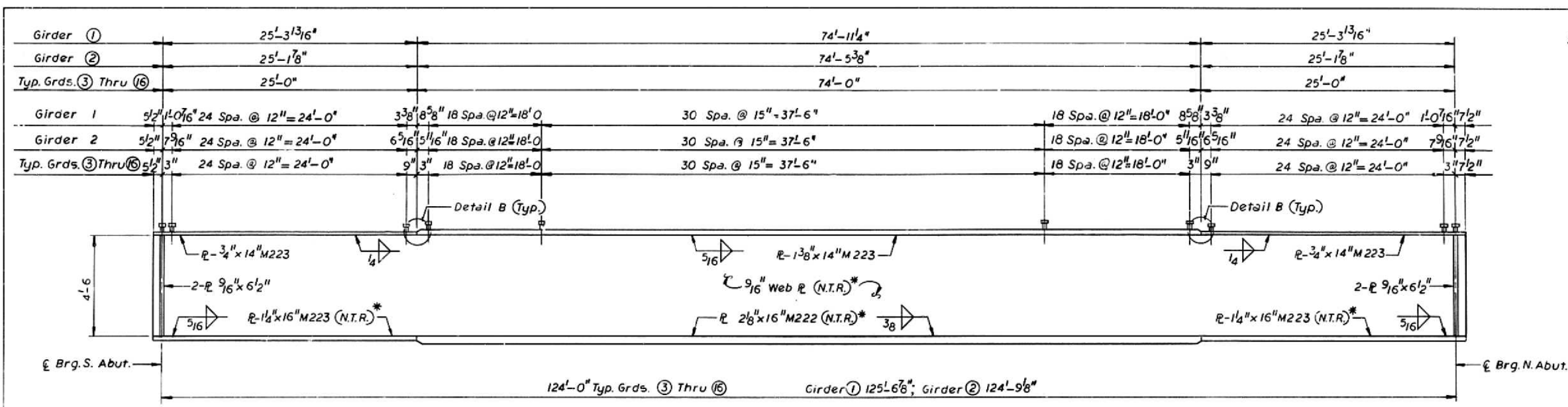
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	25
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				

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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 255	60-7HB-4	MADISON	73	68
FED. ROAD DIST. NO. 7 LLINOIS PROJ.				

Sht 12
of 17



FOR INFORMATION ONLY

NOTES:
All steel is AASHTO M183 unless otherwise shown.
All holes in Diaphragm Conn. Pl's & Angles shall be 1 1/2" φ for 3/4" H.S. Bolts, with 2 Hardened Washers.
All contact surfaces of joints for the diaphragms shall be free of paint or lacquer.

Work this sht. with shts. 11 & 13

ILLINOIS DIVISION OF HIGHWAYS				
F.A.I. ROUTE 255				
PROJECT		SECTION 60-7HB-4		
MADISON COUNTY				
STRUCTURAL STEEL GIRDER & FRAMING DETAILS				
Designed By: J.S.	Drawn By: P.J.	Quantities By: J.S.		
Checked By: H.M.	Checked By: S.K.	Checked By: A.W.R.		

TORNROSE, CAMPBELL & ASSOCIATES

USER NAME = heppjd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/5/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURE DETAILS SN 060-0238 & 0239

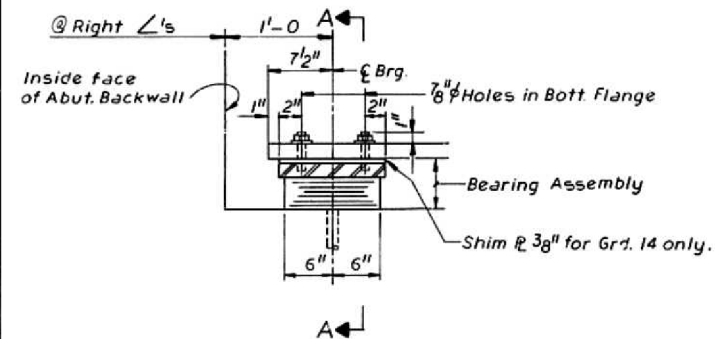
SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	26
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				

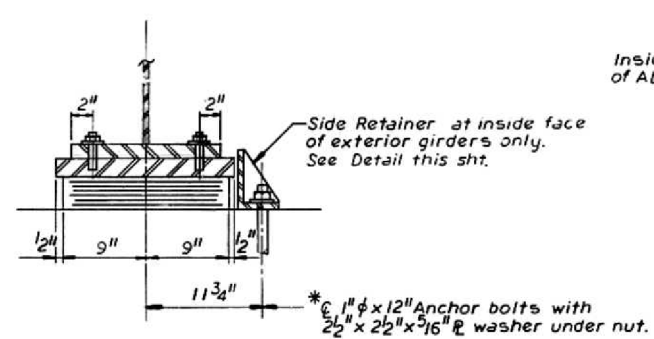
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 255	60-7HB-4	MADISON	73	69
FED. ROAD DIST. NO. 7 ILLINOIS PROJ.				

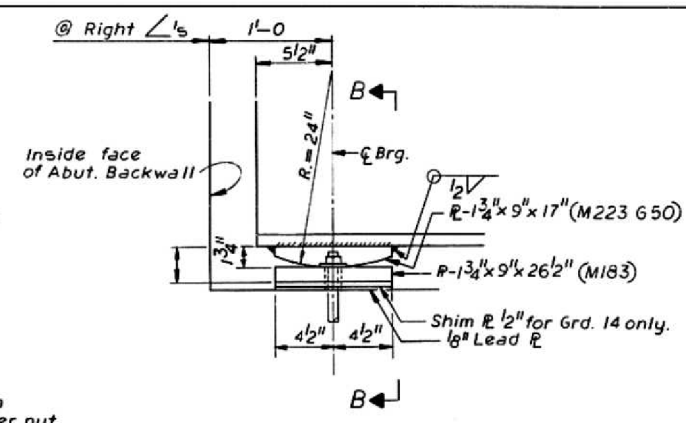
Sht 13 of 17



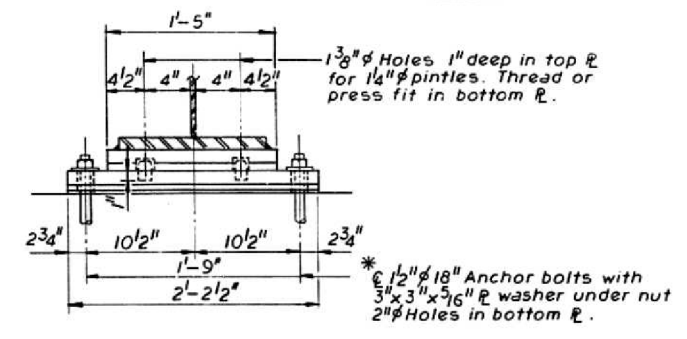
SECTION AT N. ABUT.
Dimensions along G. Girder
Except as noted



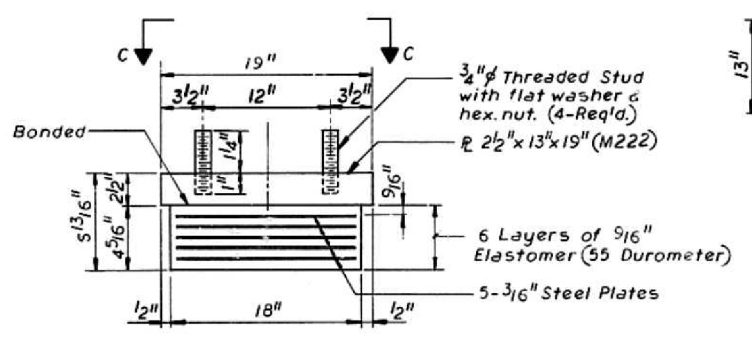
SECTION A-A



SECTION AT S. ABUT.
Dimensions along G. Girder
Except as noted

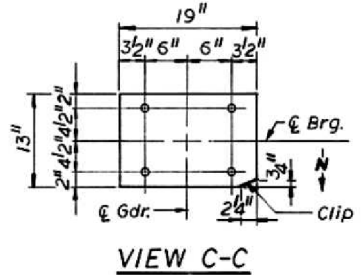


SECTION B-B



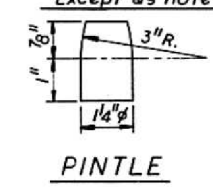
BEARING ASSEMBLY

NOTE:
Shim plates shall not be placed under Bearing Assembly.



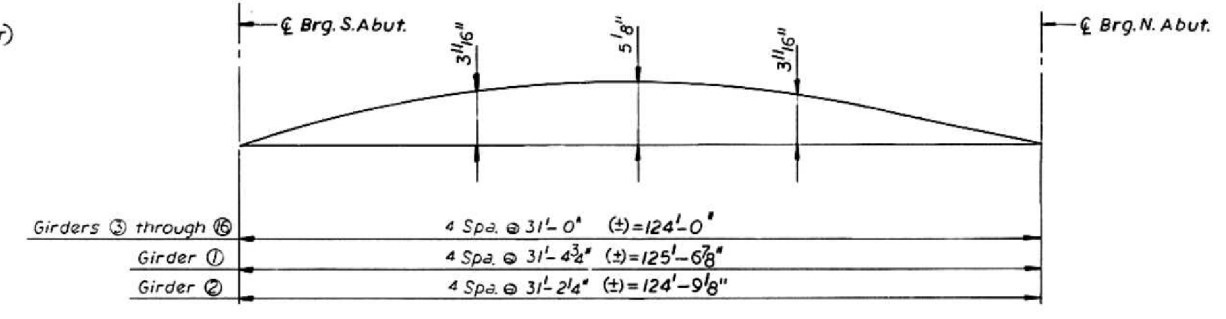
VIEW C-C

***NOTE:**
After girders have been erected holes at expansion bearings shall be drilled and anchor bolts grouted in place. Anchor bolts at fixed bearings may be built into the masonry.



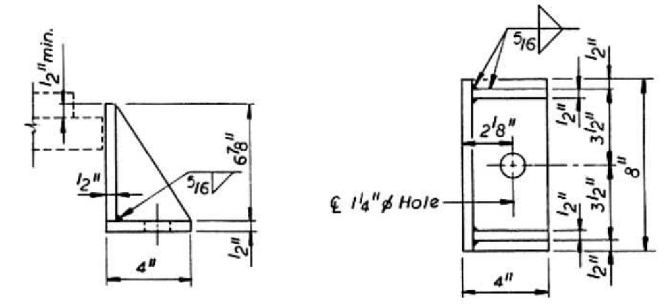
PINTLE

FIXED BEARING



CAMBER DIAGRAM

TYPE I ELASTOMERIC EXP. BRG.



SIDE RETAINER

FOR INFORMATION ONLY

INTERIOR GIRDER MOMENT TABLE

		0.5 Sp.
I _s	(IN ⁴)	46808
I _{c n=27}	(IN ⁴)	71730
I _{c n=9}	(IN ⁴)	99790
S _s	(IN ³)	1943
S _{c n=27}	(IN ³)	2247
S _{c n=9}	(IN ³)	2451
D.L.	(K/1)	1.15
M.O.L.	(K)	2208
f _s D.L.	(KSI)	13.64
S.O.L.	(K/1)	0.32
M.S.O.L.	(K)	615
f _s S.O.L. n=27	(KSI)	3.28
M.L.L.	(K)	1542
M.I.M.P.	(K)	310
Total	(K)	1852
f _s n=9	(KSI)	9.07
f _s Total	(KSI)	25.99
VR	(K)	56.8

I_s and S_s are the moment of inertia and section modulus of the steel section. I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s. VR is the maximum L+Impact shear range in span.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Typ I	Each	16

TOP OF WEB ELEVATION (For Fabrication Only)									
SOUTHBOUND ROADWAY									
ELEV.	GR. 1	GR. 2	GR. 3	GR. 4	GR. 5	GR. 6	GR. 7	GR. 8	GR. 9
Brq. S. Abut.	443.91	444.10	444.29	444.47	444.61	444.55	444.40	444.22	444.04
Brq. N. Abut.	443.81	443.95	444.08	444.25	444.38	444.32	444.16	443.96	443.77
NORTHBOUND ROADWAY									
ELEV.	GR. 10	GR. 11	GR. 12	GR. 13	GR. 14	GR. 15	GR. 16		
Brq. S. Abut.	444.03	444.21	444.38	444.53	444.58	444.44	444.26		
Brq. N. Abut.	443.71	443.88	444.05	444.19	444.23	444.08	443.89		

Work this sht. with shts. 11 & 12

ILLINOIS DIVISION OF HIGHWAYS			
F.A.I. ROUTE 255			
PROJECT		SECTION 60-7HB-4	
MADISON COUNTY			
STRUCTURAL STEEL BEARING DETAILS			
Designed By: H.M.	Drawn By: P.J.	Quantities By: J.S.	
Checked By: J.S.	Checked By: J.S.	Checked By: A.W.R.	

MODEL: Default
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TORNROSE, CAMPBELL & ASSOCIATES

USER NAME = heppjd	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 10/5/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING STRUCTURE DETAILS SN 060-0238 & 0239

SCALE: SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
255	60-7BP-1	MADISON	27	27
CONTRACT NO. 76L99				
ILLINOIS FED. AID PROJECT				