

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		MCLEAN	69	1
		ILLINOIS	CONTRACT NO. 70D87	

* D5 BRIDGE PAINTING 2021-1

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEETS 4 - 6

PROPOSED HIGHWAY PLANS

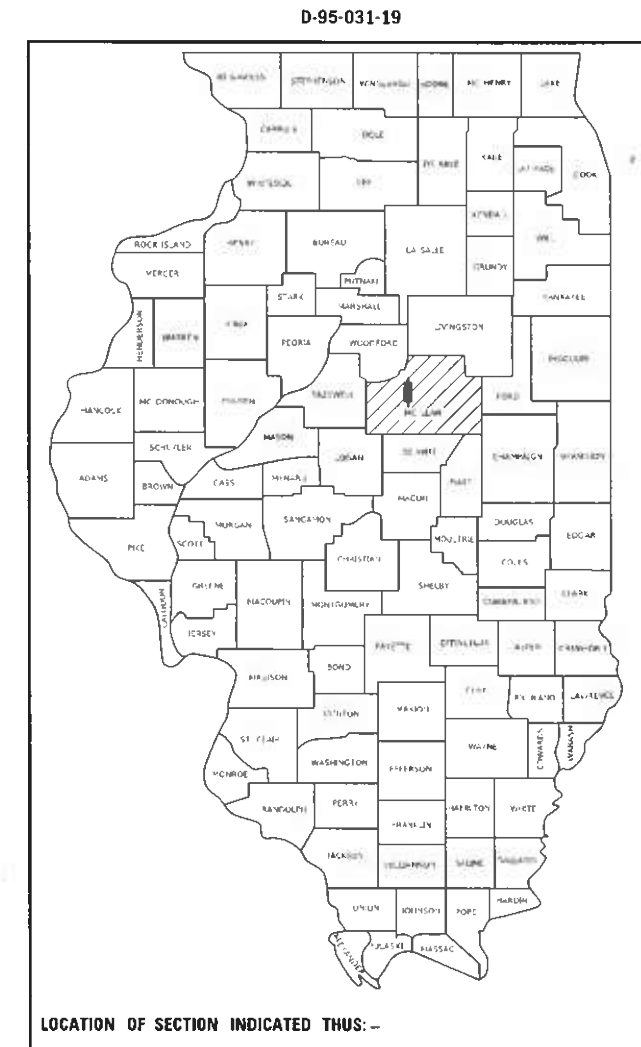
VARIOUS ROUTES
SECTION D5 BRIDGE PAINTING 2021-1
PROJECT NHPP-ZXCE(603)
BRIDGE PAINTING
MCLEAN COUNTY

C-95-036-19

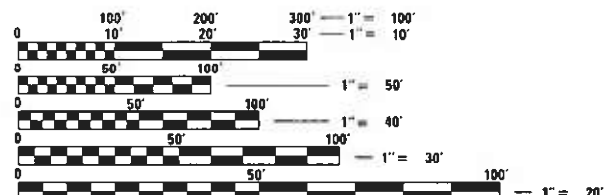
CURRENT TRAFFIC DATA
ADT 2020

LOC. #1	LOC. #2	LOC. #3	LOC. #4	LOC. #5
20,400	19,400	19,400	37,300	48,100

- LOC. #1: S.N. 057-0204 - CH 8 & FAS 473 OVER I-39 - 1.0 MILE SOUTH OF COUNTY LINE
- LOC. #2: S.N. 057-0212 - TR 157A OVER I-39 - 2.5 MILE NORTH OF I-55
- LOC. #3: S.N. 057-0213 - TR 181 (BUSN 51) OVER I-39 - 0.22 MILE WEST OF OLD 51
- LOC. #4: S.N. 057-0111 - WEST OAKLAND AVE OVER I-55/I-74 - 1.3 MILE SOUTH OF IL 9
- LOC. #5: S.N. 057-0223 - FAS 471 (RAAB ROAD) OVER I-55/I-74 - 3.0 MILE NORTH OF IL 9



FOR LOCATION MAP, SEE SHEET 3



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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: JASON STULTS
DESIGNER: MARK HARDEN
PHONE: (217)465-4181
CONTRACT NO. 70D87

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 8-04 2020
Kennel A. Barnett
REGIONAL ENGINEER

October 2, 2020
Scott A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

October 2, 2020
Qasim, Jun
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
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69	DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701400-09	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS \geq 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY / EXPRESSWAY
701446-10	TWO LANE CLOSURE, FREEWAY / EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY / EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

G.N.-100A
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-501A
THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT. - LOCATION 4, S.N. 057-0111 ONLY.

G.N.-506 (SPL.)
ALL FINAL SURFACES OF THE BEAMS SHALL BE PAINTED GRAY (MUNSELL COLOR STANDARD - 5B 7/1) EXCEPT THE EXTERIOR SURFACES OF THE EXTERIOR BEAMS WHICH SHALL BE PAINTED WITH EITHER INTERSTATE GREEN (MUNSELL COLOR STANDARD 7.5G 4/8) OR REDDISH BROWN (MUNSELL COLOR STANDARD 2.5YR 3/4) AS SPECIFIED UNDER THE DESCRIPTION FOR EACH STRUCTURE.

ONLY STRUCTURAL STEEL AND OTHER DESIGNATED SURFACES SHALL BE PAINTED. ALL OTHER SURFACES SHALL BE PROTECTED FROM CONTRACTORS BLASTING AND PAINTING OPERATIONS. ANY AREAS DAMAGED BY BLASTING OR OVERSPRAY WILL BE REMOVED OR REPAIRED AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CARE SHALL BE TAKEN NOT TO DAMAGE RUBBER BEARING OR JOINT COMPONENTS DURING BLASTING AND CLEANING OPERATIONS. ANY DAMAGE TO THESE COMPONENTS SHALL BE REPAIRED AT CONTRACTORS EXPENSE.

THE SSPC-QP1 AND QP2 PAINTING CONTRACTOR CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

ALL TRASH AND PAINTING DEBRIS, EXCLUDING WASTE BARRELS OR ROLL-OFF DUMPSTERS, SHALL BE REMOVED BEFORE BEGINNING WORK AT ANOTHER LOCATION.

2 YEAR PAINT WARRANTY REQUIRED FOR ALL STRUCTURES

NO COMMITMENTS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

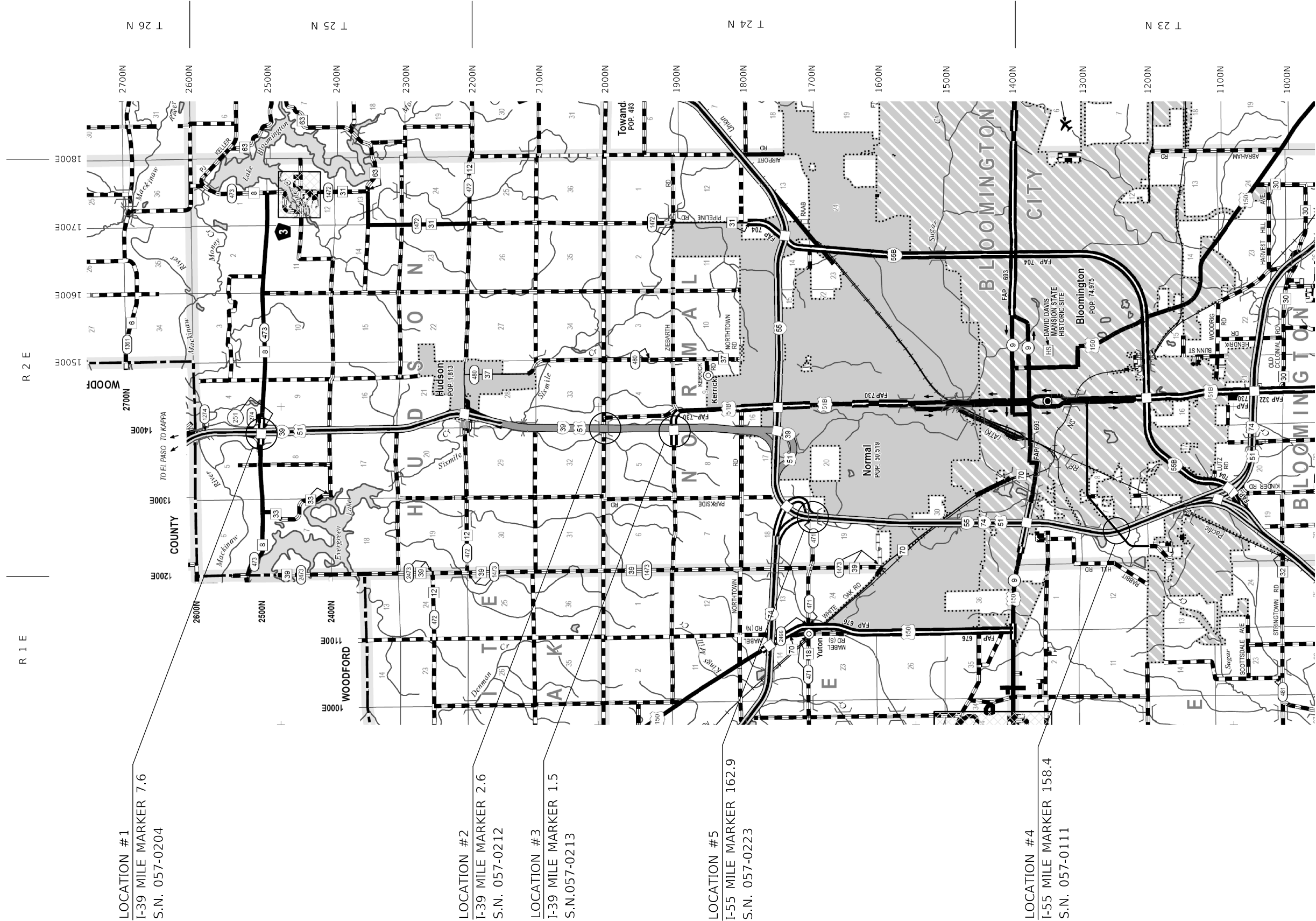
**INDEX OF SHEETS, HIGHWAY STANDARDS
& GENERAL NOTES**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	2
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS FED. AID PROJECT				

MODEL: \\MODEL\MAME
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LOCATION MAP



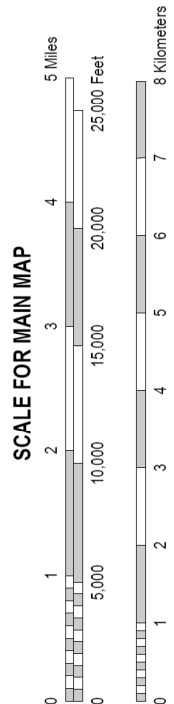
LOCATION #1
 I-39 MILE MARKER 7.6
 S.N. 057-0204

LOCATION #2
 I-39 MILE MARKER 2.6
 S.N. 057-0212

LOCATION #3
 I-39 MILE MARKER 1.5
 S.N.057-0213

LOCATION #5
 I-55 MILE MARKER 162.9
 S.N. 057-0223

LOCATION #4
 I-55 MILE MARKER 158.4
 S.N. 057-0111



TOWNSHIPS
 HUDSON
 NORMAL
 BLOOMINGTON CITY

USER NAME = eagligna	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	3
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

LOCATION OF WORK :	LOC. #1	LOC. #2	LOC. #3	LOC. #4	LOC. #5
	FAI 39	FAI 39	FAI 39	FAI 74 / FAI 55	FAI 74 / FAI 55
	S.N. 057-0204	S.N. 057-0212	S.N. 057-0213	S.N. 057-0111	S.N. 057-0223
COUNTY :	MCLEAN	MCLEAN	MCLEAN	MCLEAN	MCLEAN
	RURAL	RURAL	RURAL	URBAN	URBAN
FUNDING BREAKOUT :	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL
	10% STATE	10% STATE	10% STATE	10% STATE	10% STATE
CONSTRUCTION TYPE CODE :	0047	0047	0047	0047	0047

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
67100100	MOBILIZATION	L SUM	1.0	0.2	0.2	0.2	0.2	0.2
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	20.0	4.0	4.0	4.0	4.0	4.0
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	6.0	2.0		2.0		2.0
70100430	TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	EACH	8.0				4.0	4.0
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1.0					1.0
70107004	PAVEMENT MARKING BLACKOUT TAPE, 4"	FOOT	10745.0				3890.0	6855.0
70107008	PAVEMENT MARKING BLACKOUT TAPE, 8"	FOOT	2170.0					2170.0
70107012	PAVEMENT MARKING BLACKOUT TAPE, 12"	FOOT	440.0					440.0
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	112.0	14.0	21.0	21.0	21.0	35.0
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	5469.0				1297.0	4172.0
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	34650.0				9800.0	24850.0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3900.0	650.0	650.0	650.0	650.0	1300.0
* DENOTES SPECIALTY ITEM								

MODEL: \$MODELNAME\$
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 PROJECT: \$PROJECTNAME\$
 USER: \$USER\$
 DATE: \$DATE\$

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	4
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

LOCATION OF WORK:	LOC. #1	LOC. #2	LOC. #3	LOC. #4	LOC. #5
	FAI 39	FAI 39	FAI 39	FAI 74 / FAI 55	FAI 74 / FAI 55
	S.N. 057-0204	S.N. 057-0212	S.N. 057-0213	S.N. 057-0111	S.N. 057-0223
COUNTY:	MCLEAN	MCLEAN	MCLEAN	MCLEAN	MCLEAN
	RURAL	RURAL	RURAL	URBAN	URBAN
FUNDING BREAKOUT:	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL
	10% STATE	10% STATE	10% STATE	10% STATE	10% STATE
CONSTRUCTION TYPE CODE:	0047	0047	0047	0047	0047

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	3900.0	650.0	650.0	650.0	650.0	1300.0
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	12.0	2.0	2.0	2.0	2.0	4.0
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	12.0	2.0	2.0	2.0	2.0	4.0
* 78200011	BARRIER WALL RELECTORS, TYPE C	EACH	538.0				245.0	293.0
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	24.0	8.0	8.0	8.0		
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1.0	1.0				
X5060602	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 2	L SUM	1.0		1.0			
X5060603	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 3	L SUM	1.0			1.0		
X5060605	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 5	L SUM	1.0					1.0
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1.0	1.0				
X5067502	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 2	L SUM	1.0		1.0			
X5067503	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 3	L SUM	1.0			1.0		
* DENOTES SPECIALTY ITEM								

MODEL: \$MODELNAME\$
 FILE: \$NAME\$.dwg
 PROJECT: \$PROJECTNAME\$
 OFFICE: \$OFFICE\$
 DATE: \$DATE\$

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	MCLEAN	69	5
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

LOCATION OF WORK:	LOC. #1	LOC. #2	LOC. #3	LOC. #4	LOC. #5
	FAI 39	FAI 39	FAI 39	FAI 74 / FAI 55	FAI 74 / FAI 55
	S.N. 057-0204	S.N. 057-0212	S.N. 057-0213	S.N. 057-0111	S.N. 057-0223
COUNTY:	MCLEAN	MCLEAN	MCLEAN	MCLEAN	MCLEAN
	RURAL	RURAL	RURAL	URBAN	URBAN
FUNDING BREAKOUT:	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL	90% FEDERAL
	10% STATE	10% STATE	10% STATE	10% STATE	10% STATE
CONSTRUCTION TYPE CODE:	0047	0047	0047	0047	0047

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
X5067504	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 4	L SUM	1.0				1.0	
X5067505	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 5	L SUM	1.0					1.0
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.0				0.3	0.7
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	11551.0				3267.0	8284.0
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1.0					1.0
Z0007104	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 4	L SUM	1.0				1.0	
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1.0	1.0				
Z0010502	CLEANING AND PAINTING STEEL BRIDGE NO. 2	L SUM	1.0		1.0			
Z0010503	CLEANING AND PAINTING STEEL BRIDGE NO. 3	L SUM	1.0			1.0		
Z0010504	CLEANING AND PAINTING STEEL BRIDGE NO. 4	L SUM	1.0				1.0	
Z0010505	CLEANING AND PAINTING STEEL BRIDGE NO. 5	L SUM	1.0					1.0
* DENOTES SPECIALTY ITEM								

MODEL: \$MODELNAME\$
 FILE: \$NAME\$.pva
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USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	MCLEAN	69	6
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

LOCATION #1

LOCATION #1

DESCRIPTION: CH 8 & FAS 473 OVER I-39/US 51 – 1 MI S. OF WOODFORD CO. - M.P. 7.6
 COUNTY: McLEAN
 ROUTE: F.A.I. 39
 MARKED ROUTE: I-39
 SECTION: 57-4HB
 STRUCTURE NO.: 057-0204
 TYPE OF STRUCTURE: ANCHORED END SPAN CONTINUOUS STEEL
 9 BEAM LINES - BK-BK ABUTS = 231.75'

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 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 ALL EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE REDDISH BROWN, MUNSELL COLOR STANDARD 2.5 YR 3/4 .

THE STRUCTURE HAS AN EXISTING ZINC SILICATE AND VINYL COATING WITH AN ACRYLIC OVERCOAT OF THE FASCIA BEAMS. CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS FOR CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES.

GALVANIZED SCREENS ARE IN PLACE BETWEEN BEAM LINES AT THE ABUTMENT FRONT WALLS. THESE GALVANIZED SCREENS ARE NOT TO BE BLASTED OR PAINTED. THE CONTRACTOR SHALL REMOVE THE SCREENS FOR ACCESS TO THE END SPANS AND TO PROTECT THE GALVANIZED COATING FROM BLASTING. THE SCREENS ARE TO BE REINSTALLED UPON COMPLETION OF THE WORK.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

NOTE: ELASTOMERIC BEARINGS AT ABUTMENTS

LOCATION #2

LOCATION #2

DESCRIPTION: TR 157A OVER I-39/US 51 – 2.5 MI N. OF I-55 - M.P. 2.6
 COUNTY: McLEAN
 ROUTE: F.A.I. 39
 MARKED ROUTE: I-39
 SECTION: 57-3HB
 STRUCTURE NO.: 057-0212
 TYPE OF STRUCTURE: ANCHORED END SPAN CONTINUOUS STEEL
 4 BEAM LINES - BK-BK ABUTS = 229.0'

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 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 ALL EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE REDDISH BROWN, MUNSELL COLOR STANDARD 2.5 YR 3/4 .

THE STRUCTURE HAS AN EXISTING ZINC SILICATE AND VINYL COATING WITH AN ACRYLIC OVERCOAT OF THE FASCIA BEAMS. CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS FOR CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES.

GALVANIZED SCREENS ARE IN PLACE BETWEEN BEAM LINES AT THE ABUTMENT FRONT WALLS. THESE GALVANIZED SCREENS ARE NOT TO BE BLASTED OR PAINTED. THE CONTRACTOR SHALL REMOVE THE SCREENS FOR ACCESS TO THE END SPANS AND TO PROTECT THE GALVANIZED COATING FROM BLASTING. THE SCREENS ARE TO BE REINSTALLED UPON COMPLETION OF THE WORK.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

NOTE: ELASTOMERIC BEARINGS AT ABUTMENTS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DESCRIPTION OF WORK
LOCATIONS #1 & #2**

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	7
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

LOCATION #3

LOCATION #3

DESCRIPTION: TR 181(BUSN 51) OVER I-39/US 51 – 0.22 MI W. OF OLD 51 - M.P. 1.5
 COUNTY: McLEAN
 ROUTE: F.A.I. 39
 MARKED ROUTE: I-39
 SECTION: 57-2HB-1
 STRUCTURE NO.: 057-0213
 TYPE OF STRUCTURE: ANCHORED END SPAN CONTINUOUS STEEL
 10 BEAM LINES - BK-BK ABUTS = 229.0'

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 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 ALL EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE REDDISH BROWN, MUNSELL COLOR STANDARD 2.5 YR 3/4 .

THE STRUCTURE HAS AN EXISTING ZINC SILICATE AND VINYL COATING WITH AN ACRYLIC OVERCOAT OF THE FASCIA BEAMS. CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS FOR CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES.

GALVANIZED SCREENS ARE IN PLACE BETWEEN BEAM LINES AT THE ABUTMENT FRONT WALLS. THESE GALVANIZED SCREENS ARE NOT TO BE BLASTED OR PAINTED. THE CONTRACTOR SHALL REMOVE THE SCREENS FOR ACCESS TO THE END SPANS AND TO PROTECT THE GALVANIZED COATING FROM BLASTING. THE SCREENS ARE TO BE REINSTALLED UPON COMPLETION OF THE WORK.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

NOTE: ELASTOMERIC BEARINGS AT ABUTMENTS

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MODEL: \\MODEL\MHFE
 FILE: \\MHFE_Plan\pblm\com\ma\data\illinois.gov\PWIDOT\Documents\DOT_Offices\District 5\Projects\0570087\CADD\DATA\CAD\Sheet\0570087-5-1-0-Description.dgn

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DESCRIPTION OF WORK
LOCATION #3**

SCALE: NONE SHEET 2 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	8
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
		ILLINOIS	FED. AID PROJECT	

LOCATION #4

LOCATION #4

DESCRIPTION: W OAKLAND AVE OVER I-55/I-74 – 1.3 MI S. OF I-55 & IL 9 - M.P. 158.4
 COUNTY: McLEAN
 ROUTE: F.A.I. 55 / F.A.I. 74
 MARKED ROUTE: I-55/I-74
 SECTION: 57-6HB-2
 STRUCTURE NO.: 057-0111
 TYPE OF STRUCTURE: CONTINUOUS STEEL
 5 BEAM LINES - BK-BK ABUTS = 263'

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 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 ALL EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE GRAY, MUNSELL NO. 5B 7/1.

A MINIMUM OF TWO (2) HIGH VOLUME AIR MONITORS WILL BE REQUIRED TO MONITOR AIR QUALITY DURING DUST PRODUCING OPERATIONS AT THIS SITE. SEE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL FOLLOW THE GUIDE BRIDGE SPECIAL PROVISIONS FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES" TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

NOTE: DECK DRAINS WITHIN THE PAINTING LIMITS DESCRIBED ABOVE ARE TO BE PAINTED AT NO ADDITIONAL COST.

LOCATION #5

LOCATION #5

DESCRIPTION: FAS 471 (W RAAB RD) OVER I-55/I-74 – 3 MI N. OF IL 9 - M.P. 162.9
 COUNTY: McLEAN
 ROUTE: F.A.I. 55 / F.A.I. 74
 MARKED ROUTE: I-55/I-74
 SECTION: 57-57HBR-1
 STRUCTURE NO.: 057-0223
 TYPE OF STRUCTURE: CONTINUOUS STEEL
 6 BEAM LINES - BK-BK ABUTS = 317.4'

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES." ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL SHALL BE CLEANED PER NEAR WHITE BLASTNG SSPC-SP10.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING SSPC-SP10 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 ALL EXTERIOR AND BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE GRAY, MUNSELL NO. 5B 7/1.

THE STRUCTURE HAS AN EXISTING ZINC SILICATE AND VINYL PAINT SYSTEM. CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS FOR CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES.

TWO (2) YEAR PAINT WARRANTY REQUIRED FOR THIS STRUCTURE

NOTE: ELASTOMERIC BEARINGS AT ABUTMENTS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DESCRIPTION OF WORK
LOCATIONS #4 & #5**

SCALE: NONE SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	9
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
		ILLINOIS	FED. AID PROJECT	

TRAFFIC CONTROL SUMMARY

Structure	Direction	Stage	X7010206	70100207	no pay item	70100420	70100430	70100825	70400100	70400200	70600250	70600350	70107025	X2700001
			TC&P (SPECIAL) L Sum	TC&P Std. 701402 Each	TC&P Std. 701400 not measured for payment included with 701402	TC&P Std. 701411 Each	TC&P Std. 701446 Each	TC&P Std. 701456 L Sum	Temp Conc Barrier Foot	Relocate Temp Conc Barrier Foot	Impact Atten Test Level 3 Each	Relocate Imp Att, TL 3 Each	Changeable Message Sign Cal Day	Temp Rumble Strip Each
057-0204	NB	I	-	1.0	on I-39 NB	1.0	-	-	325	-	1.0	-	7 day advance notice	4.0
	NB	II	-	1.0		-	-	-	-	325	-	1.0		
057-0204	SB	I	-	1.0	on I-39 SB	1.0	-	-	325	-	1.0	-	7 day advance notice	4.0
	SB	II	-	1.0		-	-	-	-	325	-	1.0		
057-0212	NB	I	-	1.0	will need 2 sets of 3 mile RCA, WZPIS, & CMS on I-39 NB & I-55 SB	-	-	-	325	-	1.0	-	7 day adv notice on I-39 NB - where I-39 NB begins & 7 day adv notice on ramp I-55 SB to I-39 NB	4.0
	NB	II	-	1.0		-	-	-	-	325	-	1.0		
057-0212	SB	I	-	1.0	on I-39 SB	-	-	-	325	-	1.0	-	7 day advance notice	4.0
	SB	II	-	1.0		-	-	-	-	325	-	1.0		
057-0213	NB	I	-	1.0	will need 2 sets of 3 mile RCA, WZPIS, & CMS on I-39 NB & I-55 SB	1.0	-	-	325	-	1.0	-	7 day adv notice on I-39 NB - where I-39 NB begins & 7 day adv notice on ramp I-55 SB to I-39 NB	4.0
	NB	II	-	1.0		-	-	-	-	325	-	1.0		
057-0213	SB	I	-	1.0	on I-39 SB	1.0	-	-	325	-	1.0	-	7 day advance notice	4.0
	SB	II	-	1.0		-	-	-	-	325	-	1.0		
057-0111	NB	I	0.10	1.0	will need 2 sets of 3 mile RCA, WZPIS, & CMS on I-55 NB & I-74 WB before merger	-	1.0	-	325	-	1.0	-	7 day advance notice on I-55 NB before merger & 7 day advance notice on I-74 WB before merger	-
	NB	II	0.05	1.0		-	1.0	-	-	325	-	1.0		
057-0111	SB	I	0.10	1.0	on I-55NB/I-74WB	-	1.0	-	325	-	1.0	-	7 day advance notice	-
	SB	II	0.05	1.0		-	1.0	-	-	325	-	1.0		
057-0223	NB	I - ramp	0.05	-	on I-55NB/I-74WB	-	-	0.5 *	325	-	1.0	-	7 day advance notice	-
	NB	II - ramp	0.05	-		-	-	0.5 *	-	325	-	1.0		
	NB	III	0.10	1.0		1.0	1.0	-	325	-	1.0	-		
	NB	IV	0.10	1.0		1.0	1.0	-	-	325	-	1.0		
057-0223	SB	I	0.15	1.0	will need 2 full sets of 701400 on I-74 EB*** & I-55 SB - will need a 3rd set of 3 mile RCA, WZPIS, & CMS on I-39 SB	-	1.0	-	325	-	1.0	-	7 day advance notice on I-55 SB & 7 day advance notice on I-39 SB & 7 day advance notice on I-74 EB	-
	SB	II	0.20	1.0		-	1.0	-	325 **	325 **	1.0 **	1.0 **		
	SB	III	0.05	0 - (same as Stage 2)		-	-	-	-	325	-	1.0		
TOTALS			1.0 L Sum	20 Each		6.0 Each	8.0 Each	1.0 Each	3900 Foot	3900 Foot	12 Each	12 Each	112 Cal Day	24 Each

"3 mile RCA, WZPIS, & CMS" - refers to the first 3 devices on Traffic Control & Protection Standard 701400 - Road Construction Ahead / Work Zone Public Information Sign / Changeable Message Sign

* Work Zone Speed Limit 45 mph and ON RAMP signs shall be added to 701456 as detailed on the 057-0223 NB Stage I and II plan sheets

** For 057-0223 SB Stage II - 2 runs of temporary concrete barrier are required - totaling 650 feet of concrete barrier and Two (2) Impact Attenuators being used at the same time.

*** On I-74 EB, lane geometry naturally reduces traffic down to one (1) lane, therefore the contractor shall substitute "Road Construction Ahead" and "Worker" signs for the RT/LT lane closed 1 mi. and 1/2 mi. signs.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL SUMMARY

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	10
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
		ILLINOIS FED. AID PROJECT		

TRAFFIC CONTROL & PROTECTION (SPECIAL)

TRAFFIC CONTROL AND PROTECTION, (SPECIAL) DETAILS THE LANE SHIFTS REQUIRED AT 057-0111 AND 057-0223 AFTER THE 3 LANE CROSS SECTION HAS BEEN REDUCED TO 2 LANES UTILIZING TC&P STDS 701400 AND 701402.

ALL LANE SHIFT STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION, (SPECIAL) AND PAID FOR AT THE CONTRACT UNIT PRICE PER LUMP SUM.

EXISTING OR TEMPORARY PAVEMENT MARKING SHALL BE ON BOTH SIDES OF THE OPEN LANES. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE COVERED WITH BLACKOUT TAPE. ALL TEMPORARY PAVEMENT MARKING TAPE, BLACKOUT TAPE, AND REMOVAL OF BOTH SHALL BE MEASURED AND PAID FOR SEPARATELY.

MONO AND BI-DIRECTIONAL REFLECTORS SHALL BE ATTACHED TO THE CENTER MEDIAN BARRIER WALL AND TEMPORARY CONCRETE BARRIER WALL AT 25 FOOT CENTERS. ALL REFLECTORS SHALL BE MEASURED AND PAID FOR SEPARATELY.

TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH STEADY BURN LIGHTS ARE REQUIRED AT 50' SPACING (25' SPACING ADJACENT TO TEMPORARY CONCRETE BARRIER PER 701402) AS SHOWN ON THE LANE SHIFT DETAIL PLAN SHEETS. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION (SPECIAL).

"LANE SHIFT" AND "STAY IN LANES" SIGNS SHALL BE SUPPLIED AND ERECTED BY THE CONTRACTOR. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION (SPECIAL).

057-0111																
						PAVEMENT MARKING TAPE, TYPE III, 4"				PAVEMENT MARKING BLACKOUT TAPE, 4"			BARRIER WALL REFLECTORS, TYPE C			
						70300520				70107004			78200011			
STRUCTURE	NB or SB	STAGE	STATION	TO	STATION	LT EDGE LINE YELLOW FOOT	CTR LINE WHITE FOOT	RT EDGE LINE WHITE FOOT	SKIP DASH WHITE FOOT	EDGE LINE FOOT	SKIP DASH FOOT	BI DIRECTIONAL TOP MEDIAN WALL EACH	MONO DIRECTIONAL SIDE MEDIAN WALL EACH	MONO DIRECTIONAL TOP TEMP CONC BAR EACH	MONO DIRECTIONAL SIDE TEMP CONC BAR EACH	
057-0111	NB	I	531+75		546+50	1475	1475	1475	-	1475	370	60	60	8	8	
057-0111	SB	I	531+50		546+25	1475	1475	1475	-	1475	370	1 (60 from NB still remain)	60	8	8	
057-0111	NB	II	537+75		541+50	375	-	-	100	-	100	-	-	8	8	
057-0111	SB	II	536+50		540+25	375	-	-	100	-	100	-	-	8	8	
TOTAL =						3700	2950	2950	200	2950	940	61	120	32	32	

Striping shown on Traffic Control and Protection Standard 701400, 701402, 701411, and 701456 is included in those Standards and not shown above.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL & PROTECTION (SPECIAL)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	11
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
		ILLINOIS	FED. AID PROJECT	

TRAFFIC CONTROL & PROTECTION (SPECIAL)

057-0223

STRUCTURE	NB or SB	STAGE	STATION TO	STATION	PAVEMENT MARKING TAPE, TYPE III, 4"					PAVEMENT MARKING BLACKOUT TAPE				BARRIER WALL REFLECTORS, TYPE C				
					70300520					70107004		70107008	70107012	78200011				
					LT EDGE LINE YELLOW FOOT	LT EDGE LINE WHITE FOOT	CTR LINE WHITE FOOT	RT EDGE LINE WHITE FOOT	SKIP DASH WHITE FOOT	4" LINE EDGE LINE FOOT	SKIP DASH FOOT	8" LINE RAMP GORE FOOT	12" LINE GORE CHEVRONS FOOT	BI DIRECTIONAL TOP MEDIAN WALL EACH	MONO DIRECTIONAL SIDE MEDIAN WALL EACH	MONO DIRECTIONAL TOP TEMP CONC BAR EACH	MONO DIRECTIONAL SIDE TEMP CONC BAR EACH	
057-0223	NB (WB Ramp)	I	300+25	310+25	-	-	-	1000	-	-	-	-	-	-	-	8	8	
			306+00	307+50	-	150	-	-	-	-	-	-	-	-	-	-	-	-
			300+25	306+00	575	-	-	-	-	575	-	-	-	-	-	-	-	-
057-0223	NB (WB Ramp)	II	300+25	308+00	-	-	-	775	-	775	-	-	-	-	-	8	8	
			306+00	310+25	-	425	-	-	-	-	-	-	-	-	-	-	-	-
			300+25	306+00	575	-	-	-	-	-	-	-	-	-	-	-	-	-
057-0223	NB	III	296+50	311+25	1475	-	1475	1475	-	1475	370	-	-	60	60	8	8	
057-0223	NB	IV	296+50	310+00	1350	-	1350	1350	-	-	340	-	-	-	-	8	8	
			306+00	310+00	-	-	-	-	-	-	-	400	85	-	-	-	-	-
			296+50	306+00	-	-	-	-	-	950	-	-	-	-	-	-	-	-
057-0223	SB	I	295+75	310+00	1425	-	1425	1425	-	-	360	-	-	-	-	8	8	
			298+75	305+00	-	625 (ramp)	-	-	-	-	-	-	-	-	-	-	-	
			295+75	298+00	-	-	-	-	-	225	-	-	-	-	-	-	-	-
			298+00	306+35	-	-	-	-	-	-	-	-	835	350	-	-	-	-
			298+75	306+35	-	-	-	-	-	-	-	-	760	-	-	-	-	-
			306+35	310+00	-	-	-	-	-	-	365 (puppy trax)	-	-	-	-	-	-	-
057-0223	SB	II	295+75	310+00	1425	-	1425	1425	-	1425	360	-	-	3	58	8	8	
			298+75	310+00	-	1125 (ramp)	-	-	-	-	-	-	(gore blacked out in Stage I)	(60 from NB still remain)	-	-	-	-
057-0223	SB	III	295+75	310+00	-	-	-	1425	-	-	-	(gore blacked out in Stage I)	-	-	-	8	8	
			298+50	310+00	-	1150	-	-	-	-	-	-	25	-	-	-	-	
TOTAL =					6825	3475	5675	8875		5425	1430	2170	440	63	118	56	56	

Striping shown on Traffic Control and Protection Standard 701400, 701402, 701411, and 701456 is included in those Standards and not shown above.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL & PROTECTION (SPECIAL)

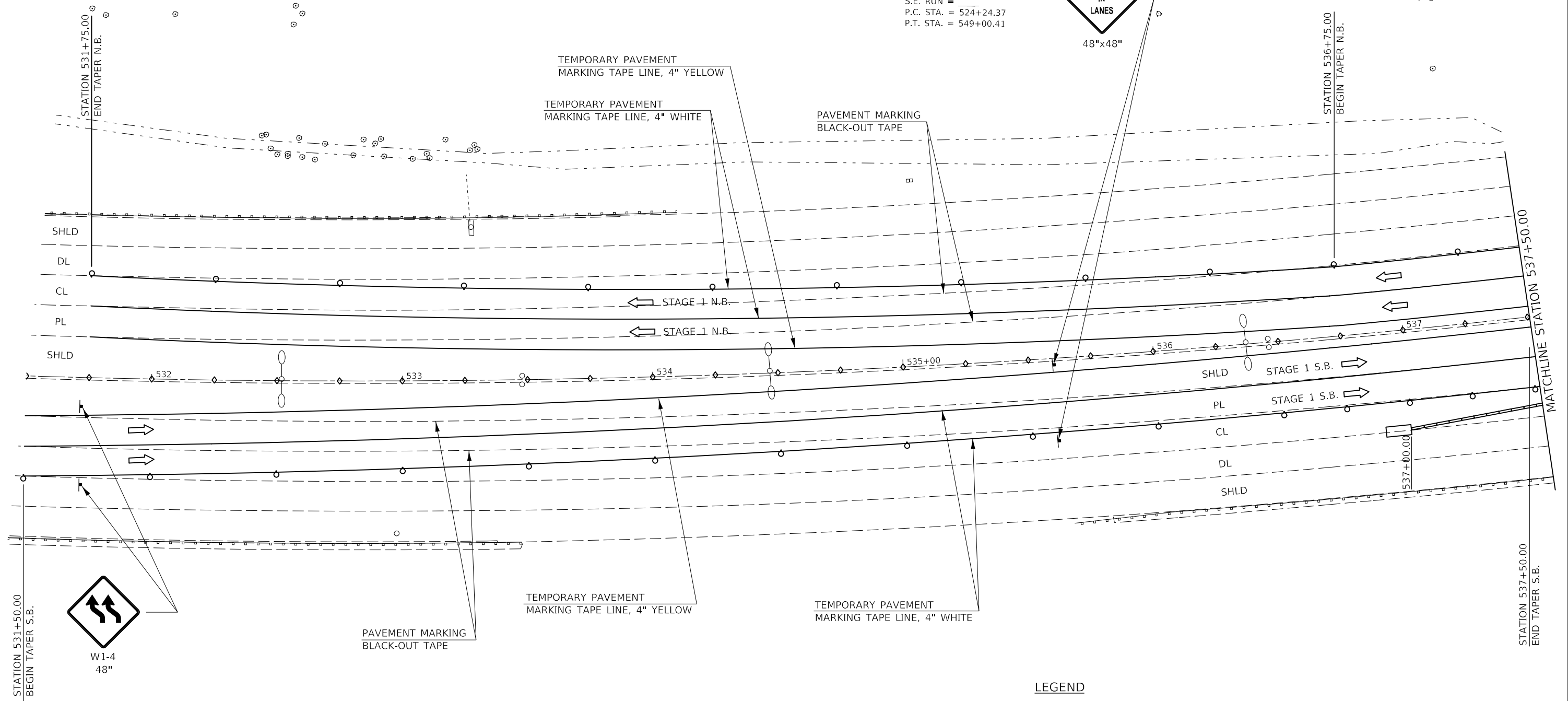
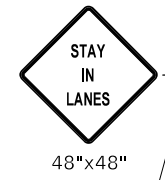
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	12
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
		ILLINOIS	FED. AID PROJECT	

STAGE 1 S.N. 057-0111



EXIST. CURVE I55_ALL_3
 PI STA. = 536+97.84
 $\Delta = 33^\circ 01' 22''$ (LT)
 D = 1° 20' 01"
 R = 4,296.02'
 T = 1,278.47'
 L = 2,476.04'
 E = 184.77'
 e = _____
 T.R. = _____
 S.E. RUN = _____
 P.C. STA. = 524+24.37
 P.T. STA. = 549+00.41



LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

STAGE 1 S.B.
 T.C. & P. STD. 701400 & 701402
 500' TANGENT 526+50.00 TO 531+50.00
 1000' TAPER 516+50.00 TO 526+50.00

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION (SPECIAL)
STAGE 1 S.N. 057-0111**

SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. 531+50.00 TO STA. 537+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	13
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

STAGE 1
S.N. 057-0111

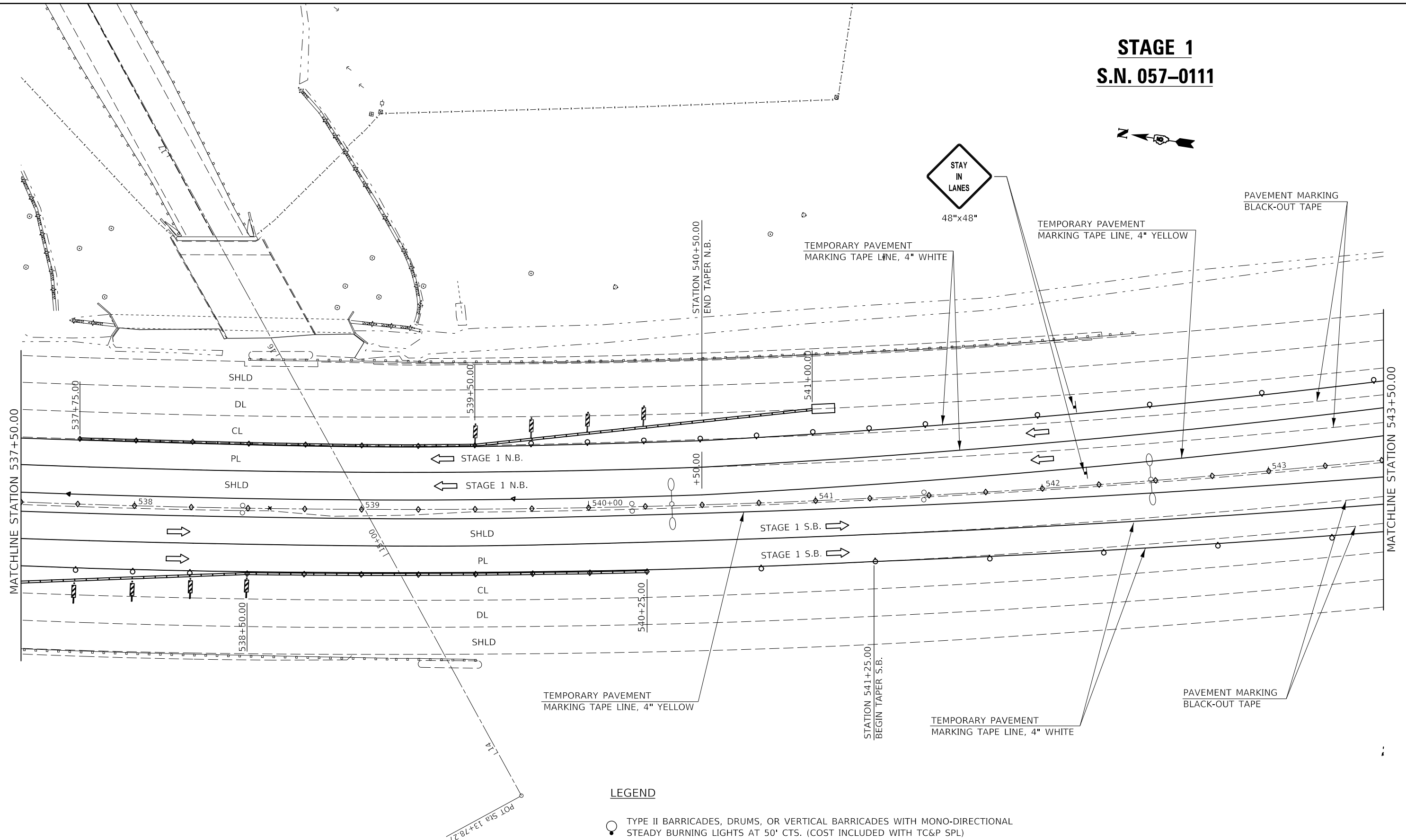


48"x48"

TEMPORARY PAVEMENT MARKING TAPE LINE, 4" WHITE

TEMPORARY PAVEMENT MARKING TAPE LINE, 4" YELLOW

PAVEMENT MARKING BLACK-OUT TAPE



LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- ◇ TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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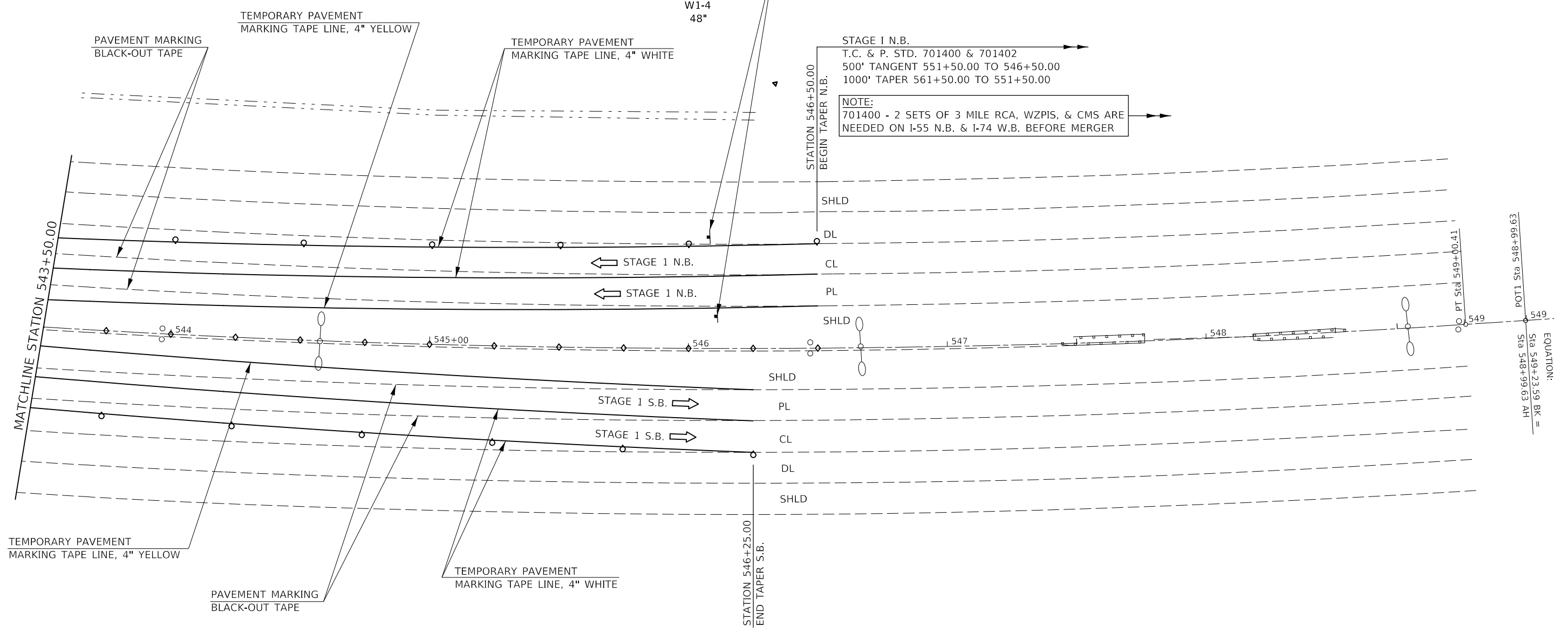
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)			
STAGE 1 S.N. 057-0111			
SCALE: 1" = 20'	SHEET 2	OF 3 SHEETS	STA. 537+50.00 TO STA. 543+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	14
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

STAGE 1
S.N. 057-0111



STAGE 1 N.B.
T.C. & P. STD. 701400 & 701402
500' TANGENT 551+50.00 TO 546+50.00
1000' TAPER 561+50.00 TO 551+50.00

NOTE:
701400 - 2 SETS OF 3 MILE RCA, WZPIS, & CMS ARE NEEDED ON I-55 N.B. & I-74 W.B. BEFORE MERGER

LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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	DATE -	REVISED -

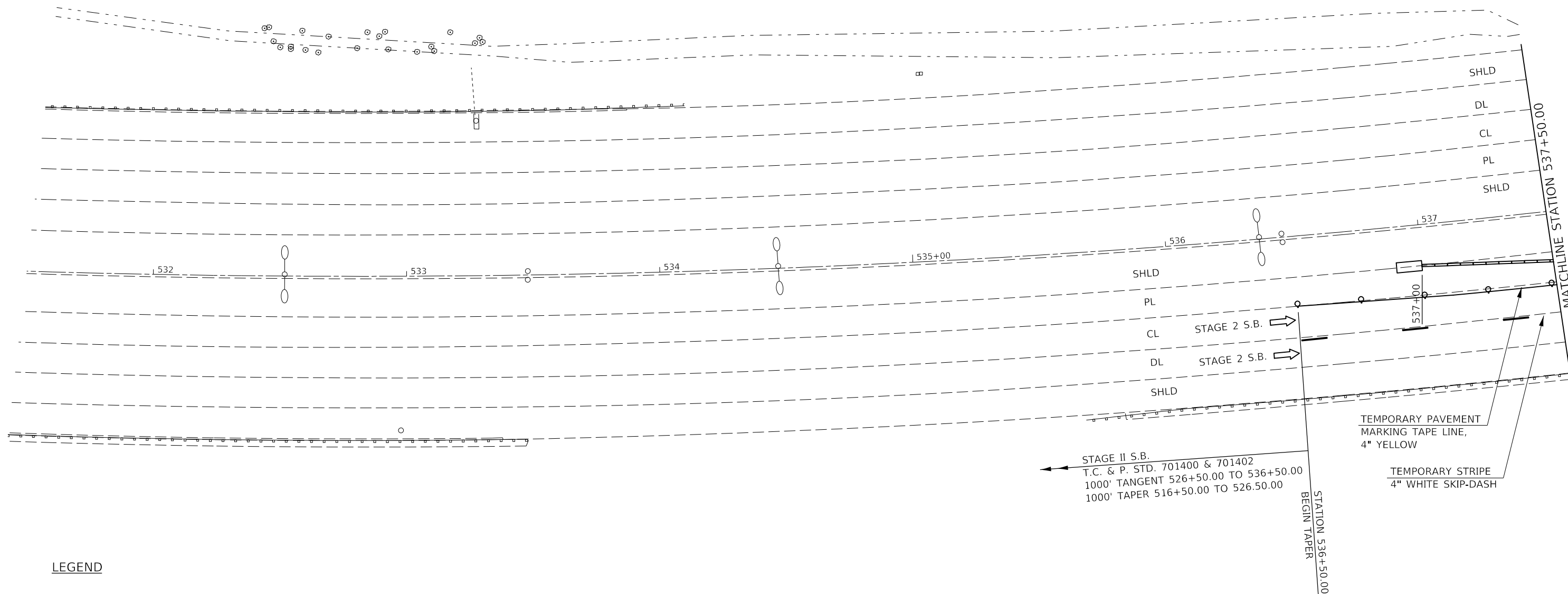
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)			
STAGE 1 S.N. 057-0111			
SCALE: 1" = 20'	SHEET 3	OF 3 SHEETS	STA. 543+50.00 TO STA. 549+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	MCLEAN	69	15
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS FED. AID PROJECT				

STAGE 2 S.N. 057-0111

EXIST. CURVE I55_ALL_3
 PI STA. = 536+97.84
 $\Delta = 33^\circ 01' 22''$ (LT)
 $D = 1^\circ 20' 01''$
 $R = 4,296.02'$
 $T = 1,273.47'$
 $L = 2,476.04'$
 $E = 184.77'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 524+24.37$
 $P.T. STA. = 549+00.41$



LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)

- TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION (SPECIAL)
STAGE 2 S.N. 057-0111**

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. 531+50.00 TO STA. 537+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	16
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS		FED. AID PROJECT		

STAGE 2 S.N. 057-0111



STAGE II N.B.
T. C. & P. STD. 701400 & 701402
1000' TANGENT 541+50.00 TO 551+50.00
1000' TAPER 551+50.00 TO 561+50.00

NOTE:
701400 - 2 SETS OF 3 MILE RCA, WZPIS, & CMS ARE
NEEDED ON I-55 N.B. & I-74 W.B. BEFORE MERGER.

STATION 541+50.00
BEGIN TAPER

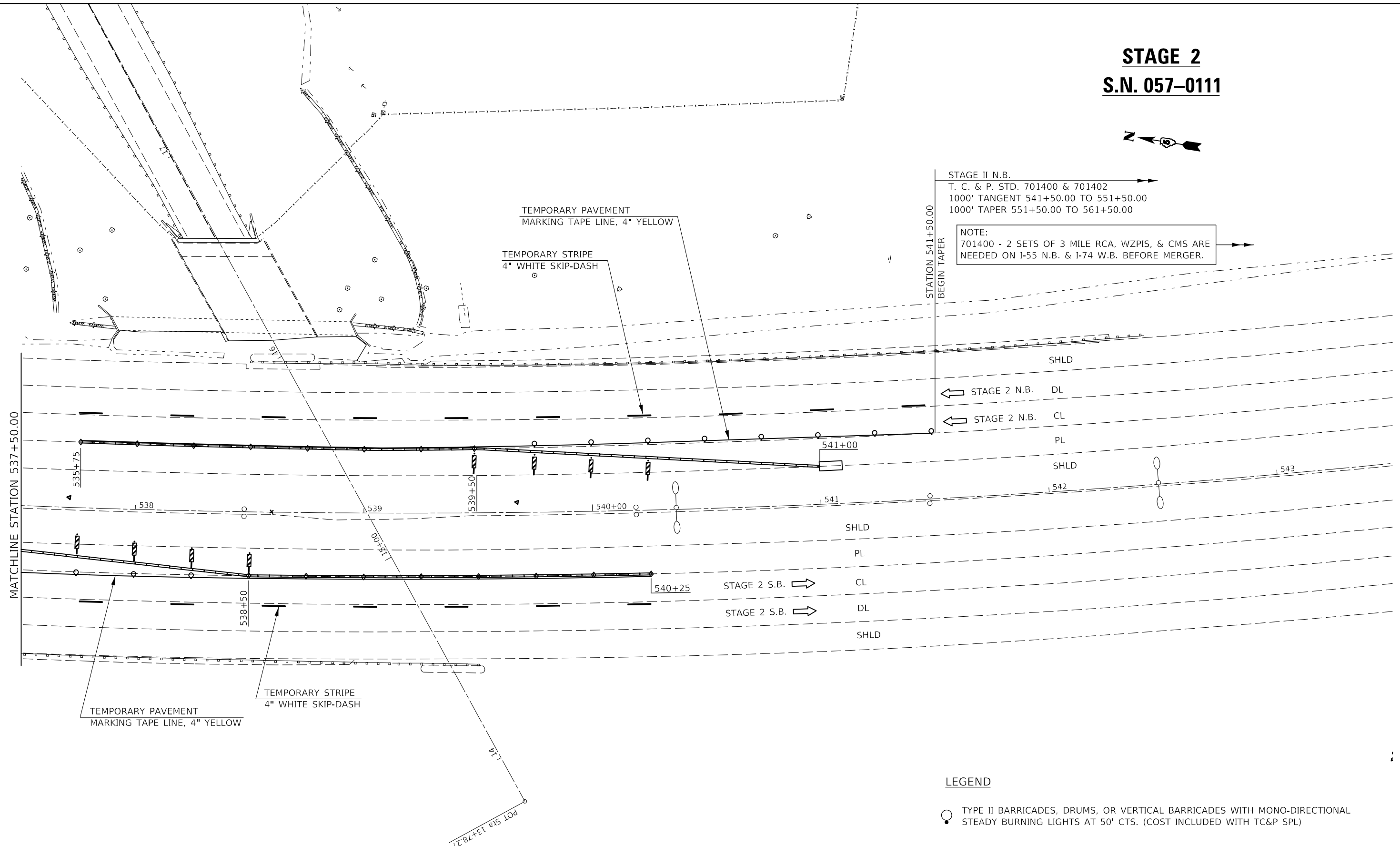
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← STAGE 2 N.B. DL
← STAGE 2 N.B. CL
PL
SHLD

SHLD
PL
CL
→ STAGE 2 S.B.
→ STAGE 2 S.B. DL
SHLD

LEGEND

○ TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)

◇ TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.



USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

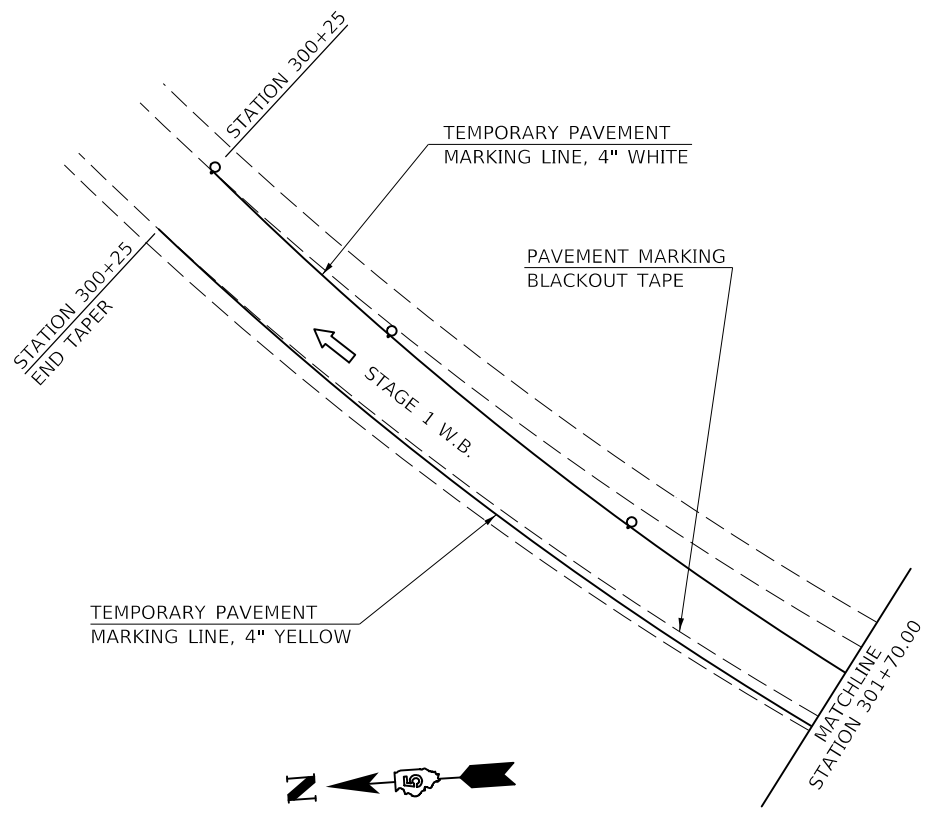
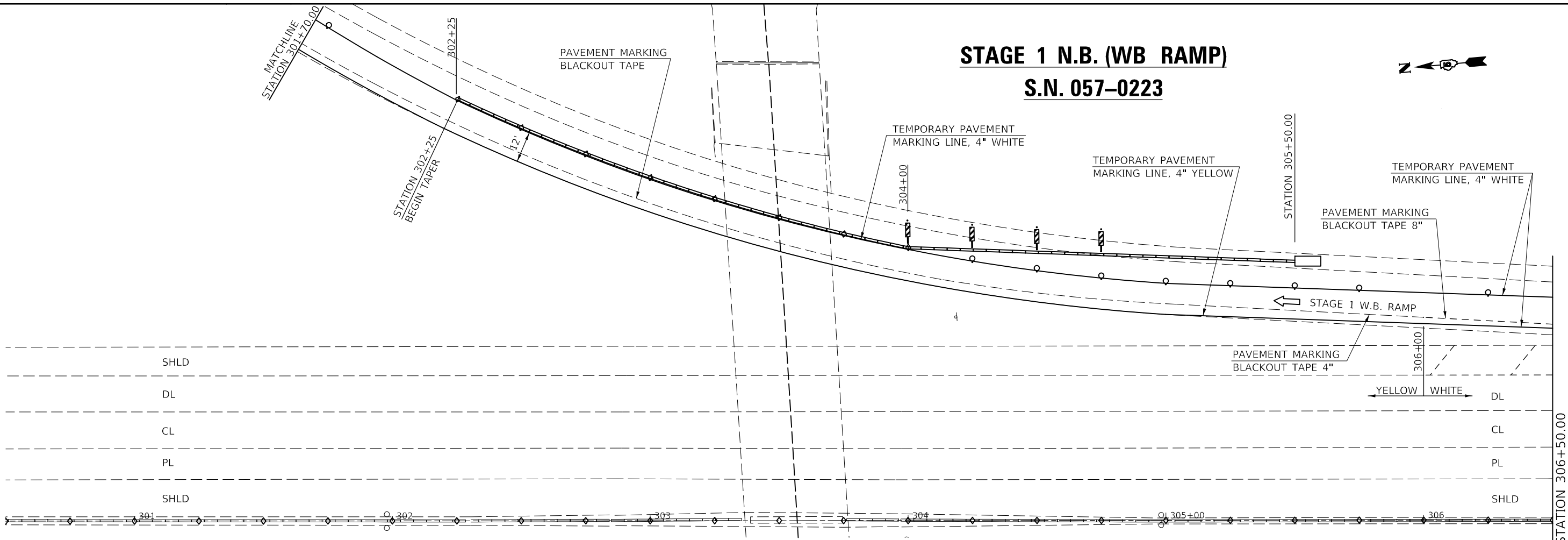
TRAFFIC CONTROL AND PROTECTION (SPECIAL)
STAGE 2 S.N. 057-0111

SCALE: 1" = 20' SHEET 2 OF 2 SHEETS STA. 537+50.00 TO STA. 543+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	17
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

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DRAWING: \\DRAWING\NAME
DATE: 7/29/2020

STAGE 1 N.B. (WB RAMP) S.N. 057-0223



LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P)
- TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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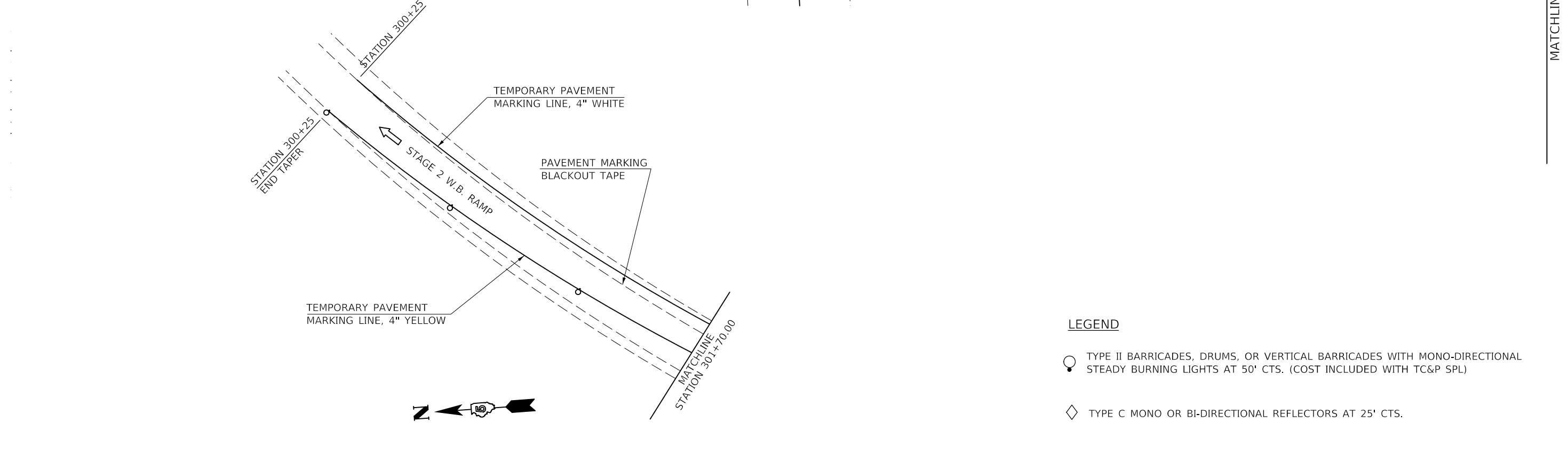
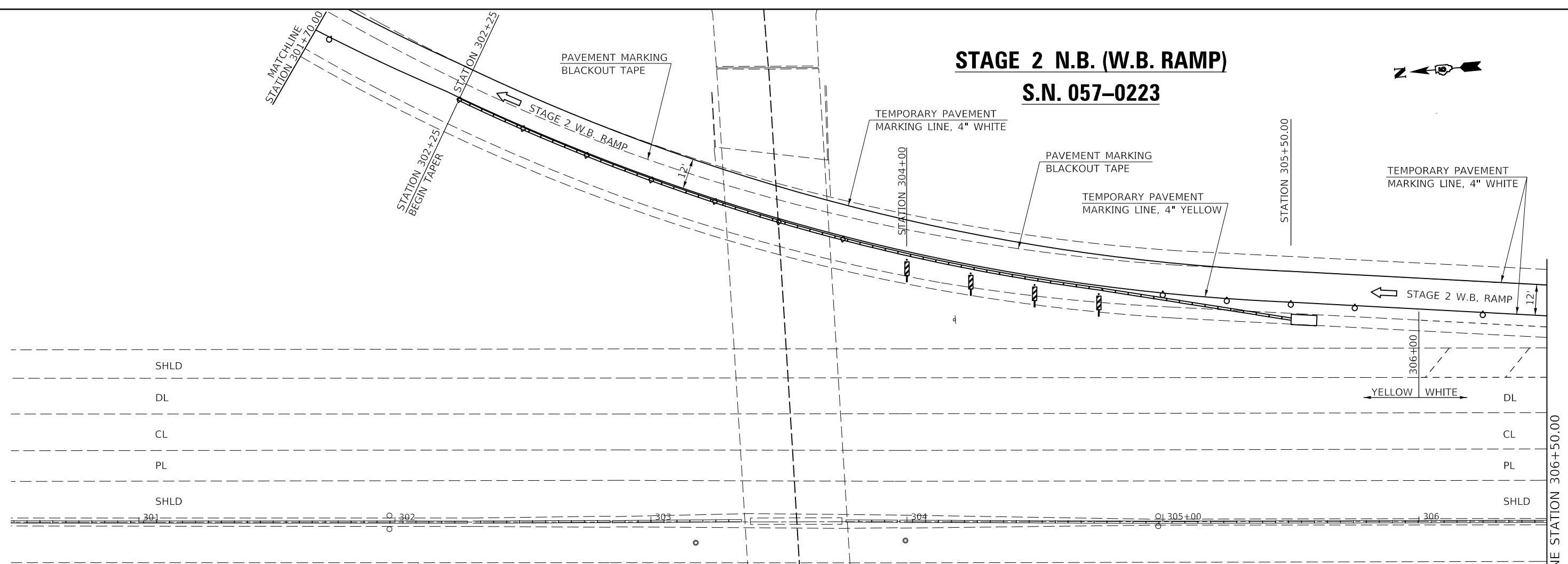
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PLOT DATE = 7/29/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



TRAFFIC CONTROL & PROTECTION (SPECIAL)			
STAGE 1 N.B. (W.B. RAMP) S.N. 057-0223			
SCALE: 1" = 20'	SHEET 1	OF 2 SHEETS	STA. 300+25.00 TO STA. 306+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	18
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

STAGE 2 N.B. (W.B. RAMP) S.N. 057-0223



LEGEND

-  TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
-  TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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PLOT DATE = 7/29/2020	DATE -	REVISED -

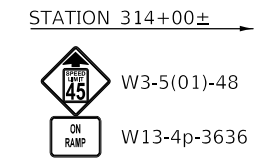
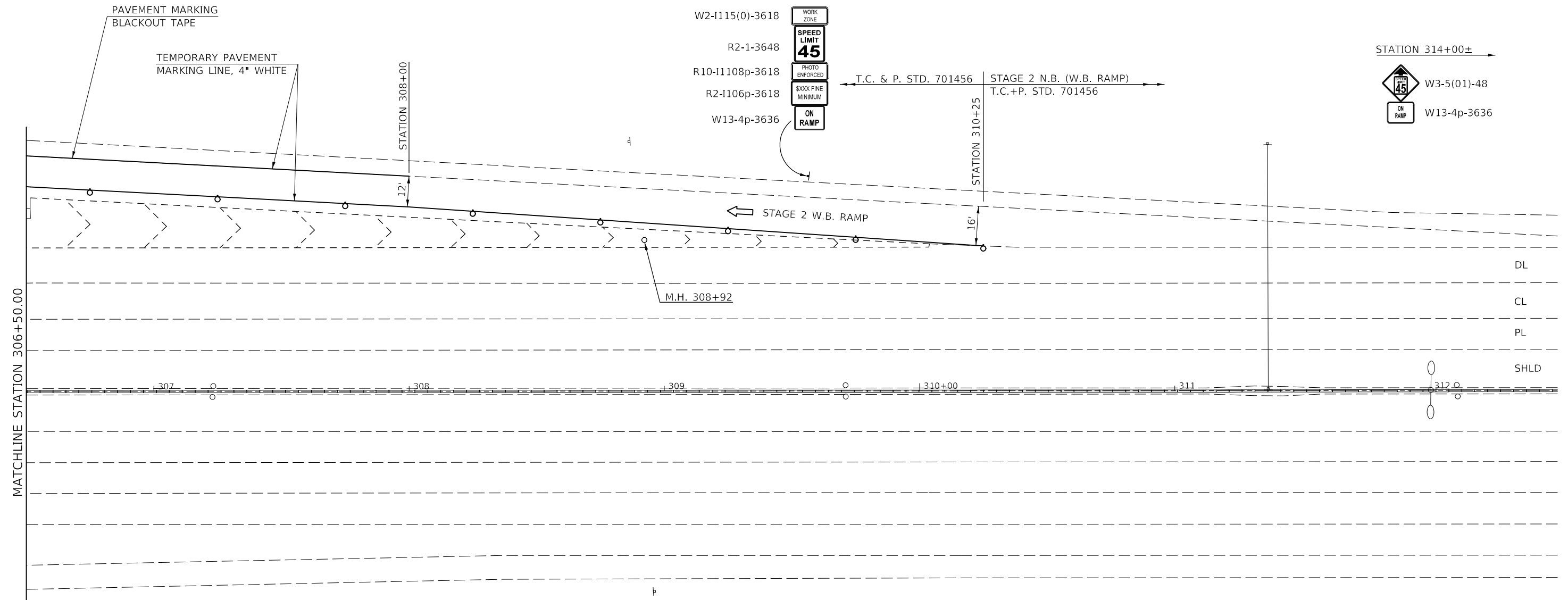
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION (SPECIAL)
STAGE 2 N.B. (W.B. RAMP) S.N. 057-0223**

SCALE: 1" = 20' SHEET 1 OF 2 SHEETS STA. 300+50.00 TO STA. 306+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	MCLEAN	69	20
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

STAGE 2 N.B. (W.B. RAMP) S.N. 057-0223



LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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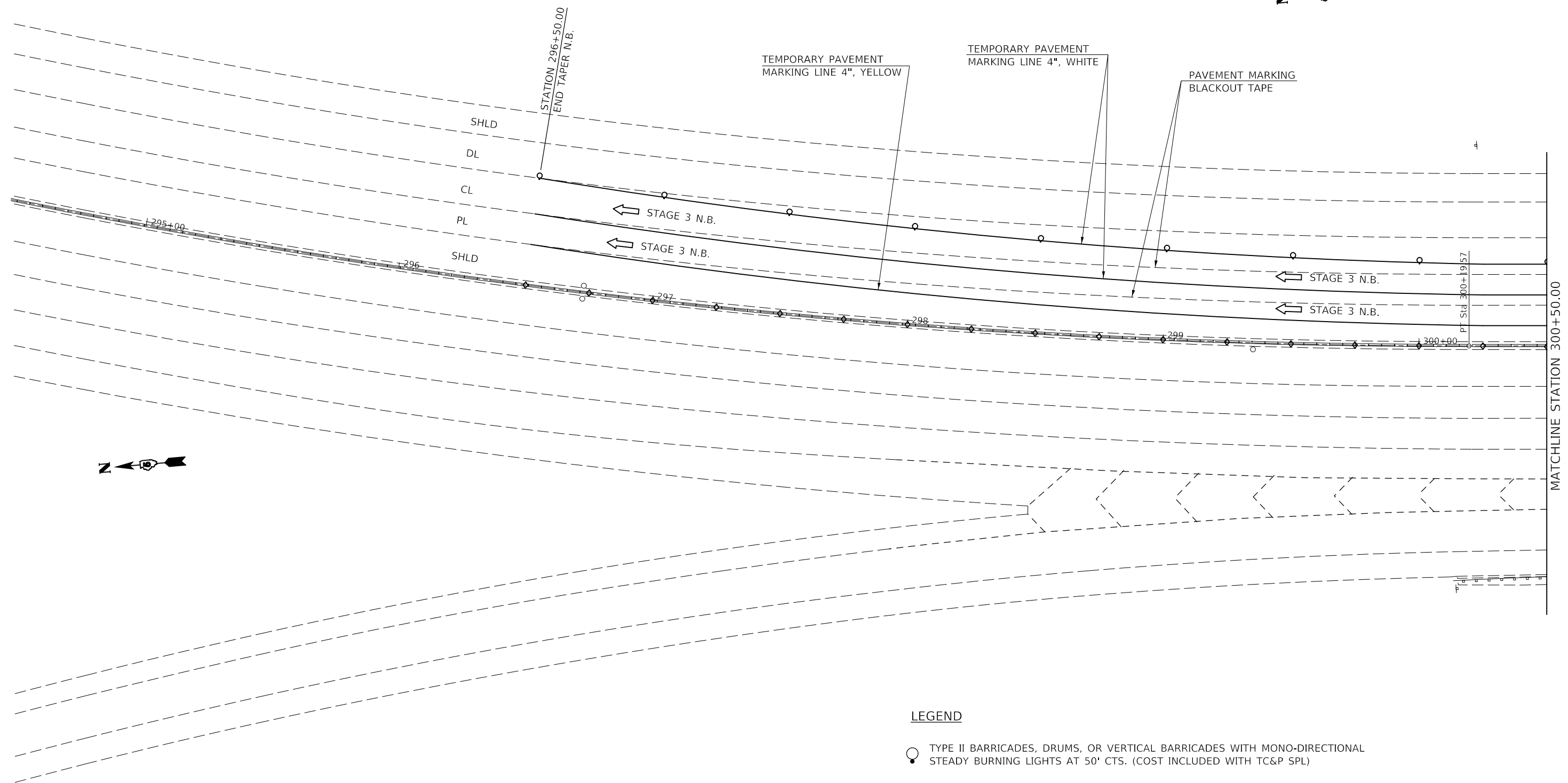
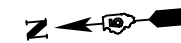
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PLOT DATE = 7/29/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL & PROTECTION (SPECIAL)			
STAGE 2 N.B. (W.B. RAMP) S.N. 057-0223			
SCALE: 1" = 20'	SHEET 2	OF 2	SHEETS
STA. 306+50.00		TO STA. 312+50.00	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	MCLEAN	69	21
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

STAGE 3 N.B.
S.N. 057-0223



LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- ◇ TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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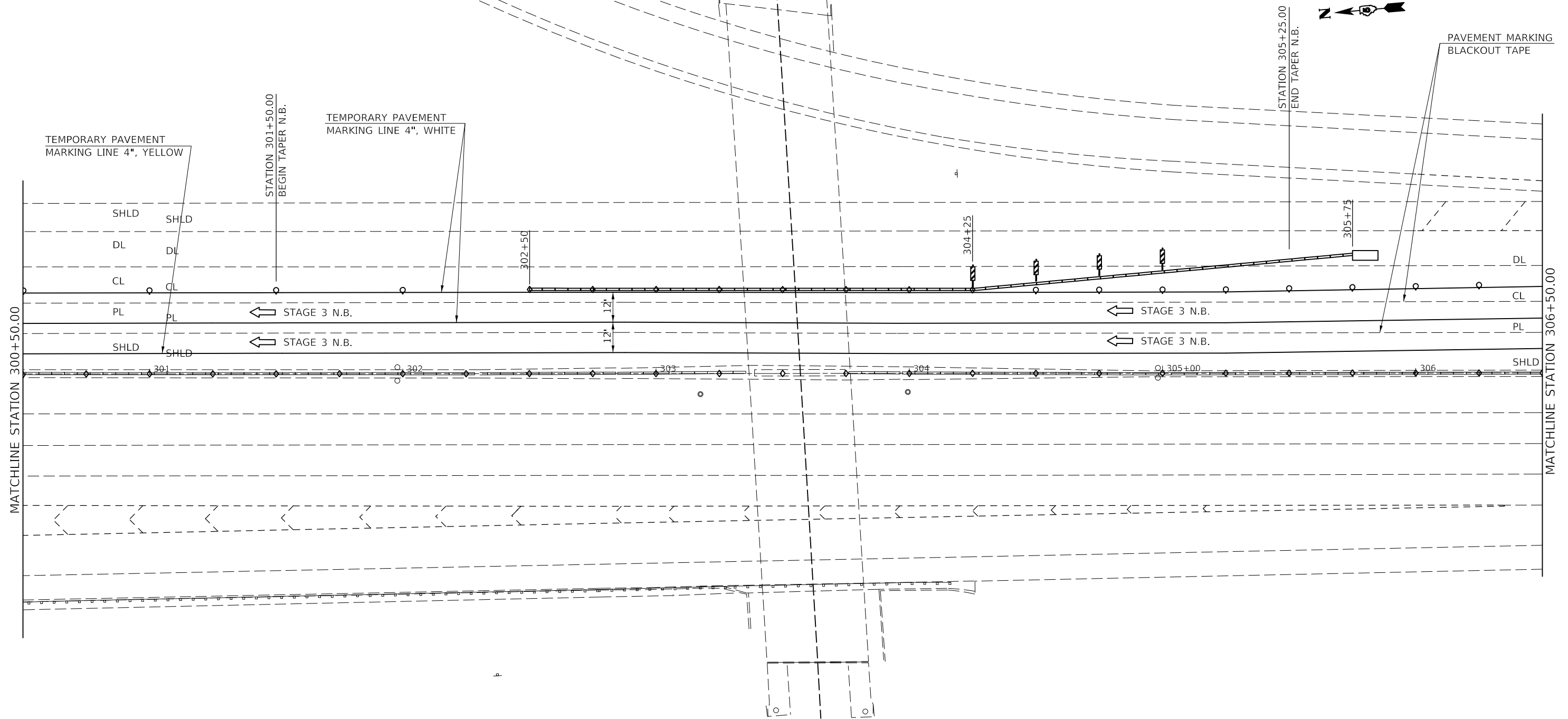
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)			
STAGE 3 N.B. S.N. 057-0223			
SCALE: 1" = 20'	SHEET 1 OF 3 SHEETS	STA. 295+00.00 TO STA. 300+50.00	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	22
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
		ILLINOIS FED. AID PROJECT		

STAGE 3 N.B.
S.N. 057-0223



LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- ◇ TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

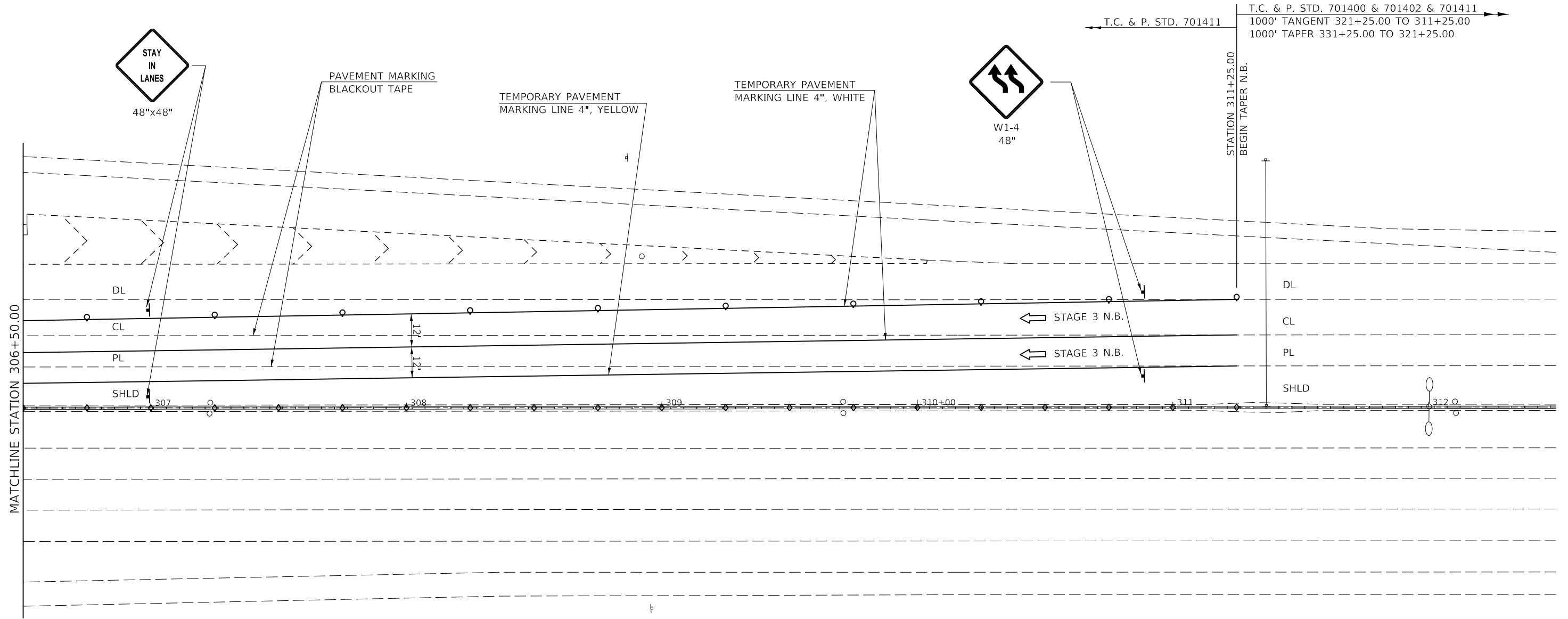
TRAFFIC CONTROL & PROTECTION (SPECIAL)			
STAGE 3 N.B. S.N. 057-0223			
SCALE: 1" = 20'	SHEET 2	OF 3 SHEETS	STA. 300+50.00 TO STA. 306+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	23
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS FED. AID PROJECT				

**STAGE 3 N.B.
S.N. 057-0223**



T.C. & P. STD. 701411
 T.C. & P. STD. 701400 & 701402 & 701411
 1000' TANGENT 321+25.00 TO 311+25.00
 1000' TAPER 331+25.00 TO 321+25.00



LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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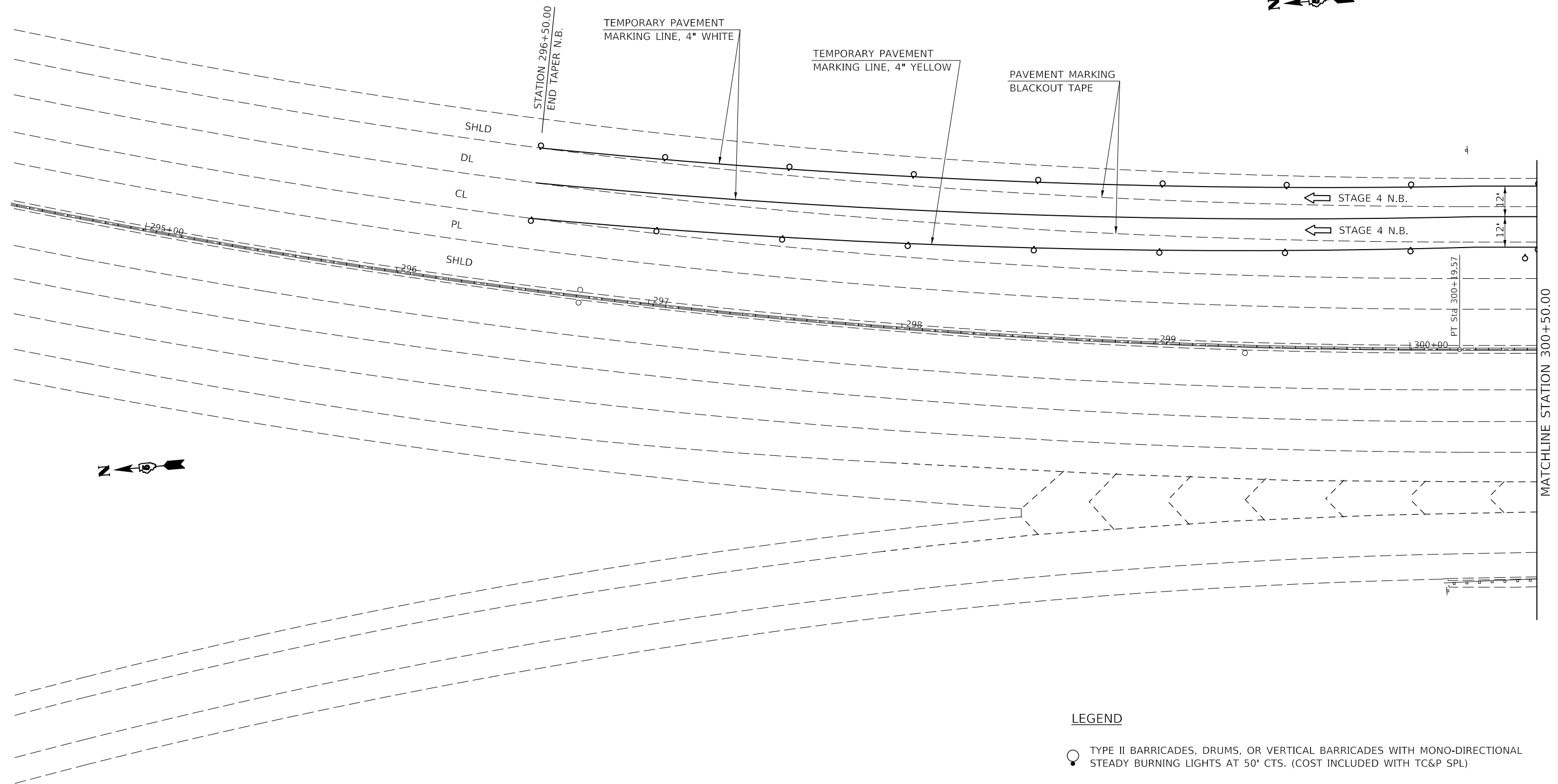
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL & PROTECTION (SPECIAL)			
STAGE 3 N.B. S.N. 057-0223			
SCALE: 1" = 20'	SHEET 3	OF 3 SHEETS	STA. 306+50.00 TO STA. 312+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			69	24
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS FED. AID PROJECT				

STAGE 4 N.B.
S.N. 057-0223



LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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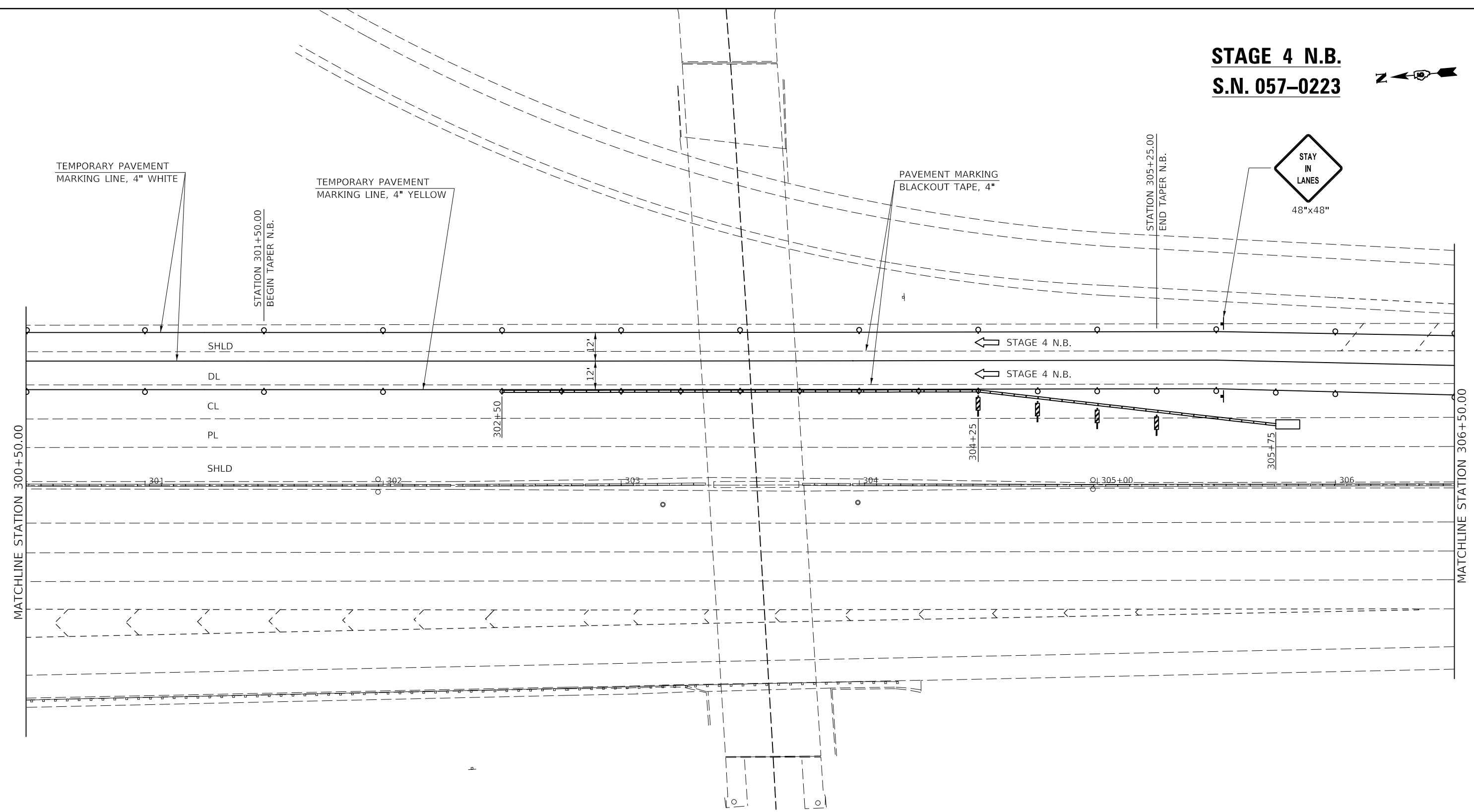
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)
STAGE 4 N.B. S.N. 057-0223

SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. 295+00.00 TO STA. 300+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	25
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

STAGE 4 N.B.
S.N. 057-0223



LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- ◇ TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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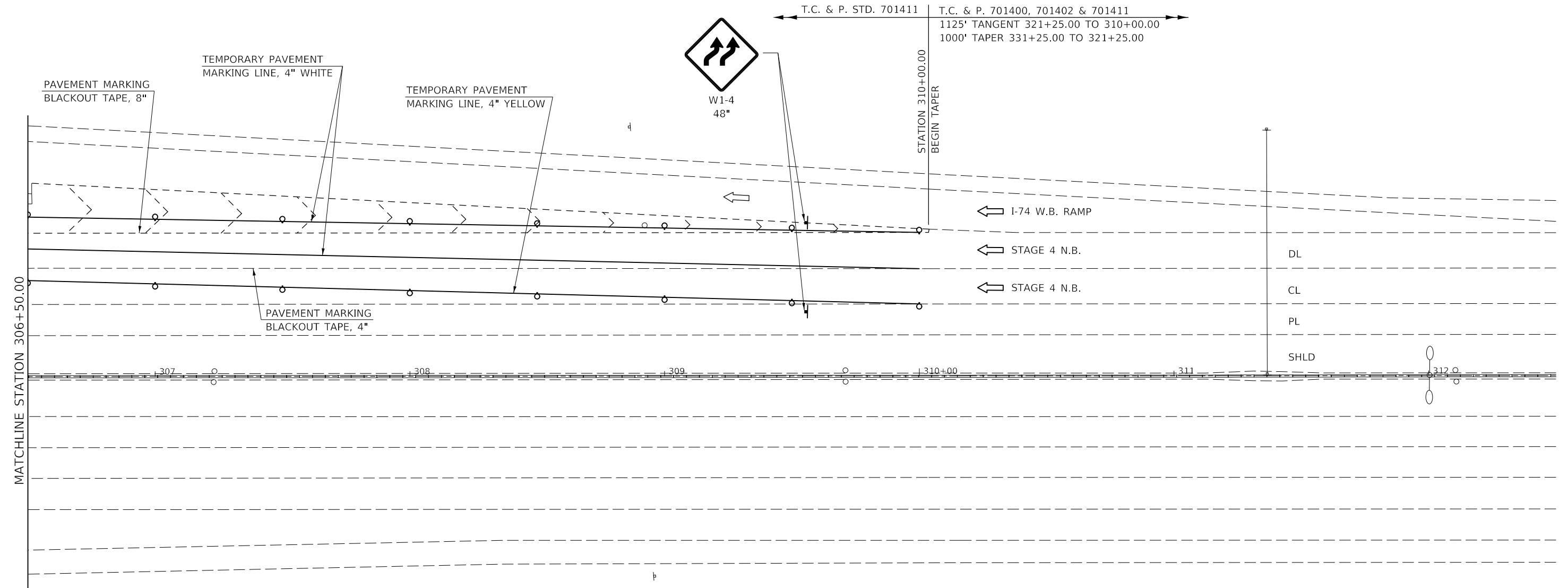
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)
STAGE 4 N.B. S.N. 057-0223



SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. 300+50.00 TO STA. 306+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	26
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

STAGE 4 N.B.
S.N. 057-0223



LEGEND

-  TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
-  TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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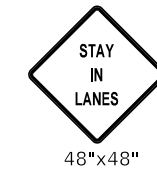
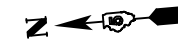
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)
STAGE 4 N.B. S.N. 057-0223

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. 306+50.00 TO STA. 312+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	27
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS FED. AID PROJECT				

STAGE 1 S.B.
S.N. 057-0223



NOTE:
701400 - AN ADDITIONAL SET OF 3 MILE
RCA, WZPIS, & CMS IS NEEDED ON I-39 S.B.

T.C. & P. 701400 & 701402
500' TANGENT 290+75.00 TO 295+75.00
1000' TAPER 280+75.00 TO 290+75.00

NOTE:
701400 - SUBSTITUTE RCA & WORKER
SIGNS FOR THE RT/LT LANE CLOSED
1 MI. & ½ MI. SIGNS

T.C. & P. 701400

TEMPORARY PAVEMENT
MARKING LINE, 4" WHITE

PAVEMENT MARKING
BLACKOUT TAPE 4"

TEMPORARY PAVEMENT
MARKING LINE, 4" YELLOW

PAVEMENT MARKING
BLACKOUT TAPE 8"

STAGE 1 S.B. →

STAGE 1 S.B. →

I-74 E.B. →

STATION 298+75.00
BEGIN TAPER

MATCHLINE STATION 300+50.00

LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- ◇ TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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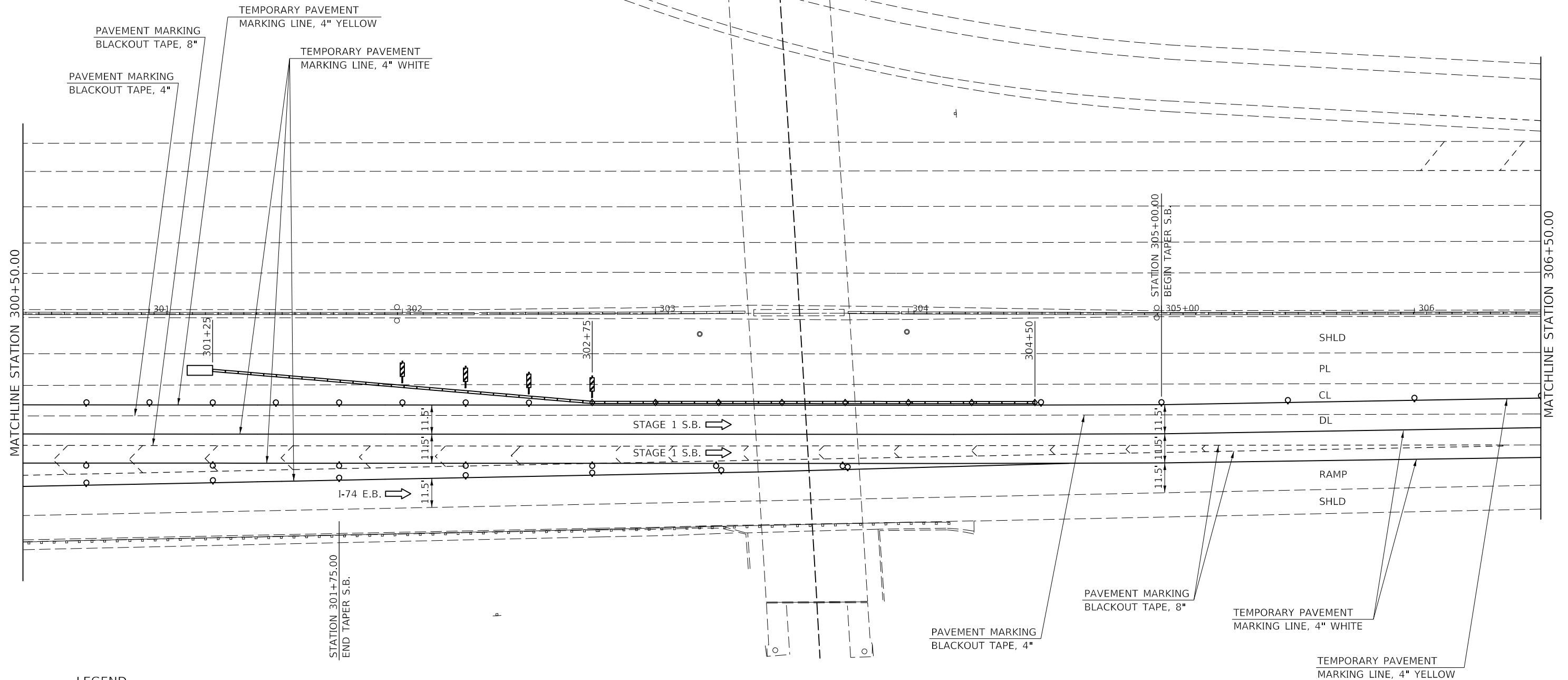
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)			
STAGE 1 S.B. S.N. 057-0223			
SCALE: 1" = 20'	SHEET 1	OF 3 SHEETS	STA. 295+00.00 TO STA. 300+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	28
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS FED. AID PROJECT				

STAGE 1 S.B.
S.N. 057-0223



LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- ◇ TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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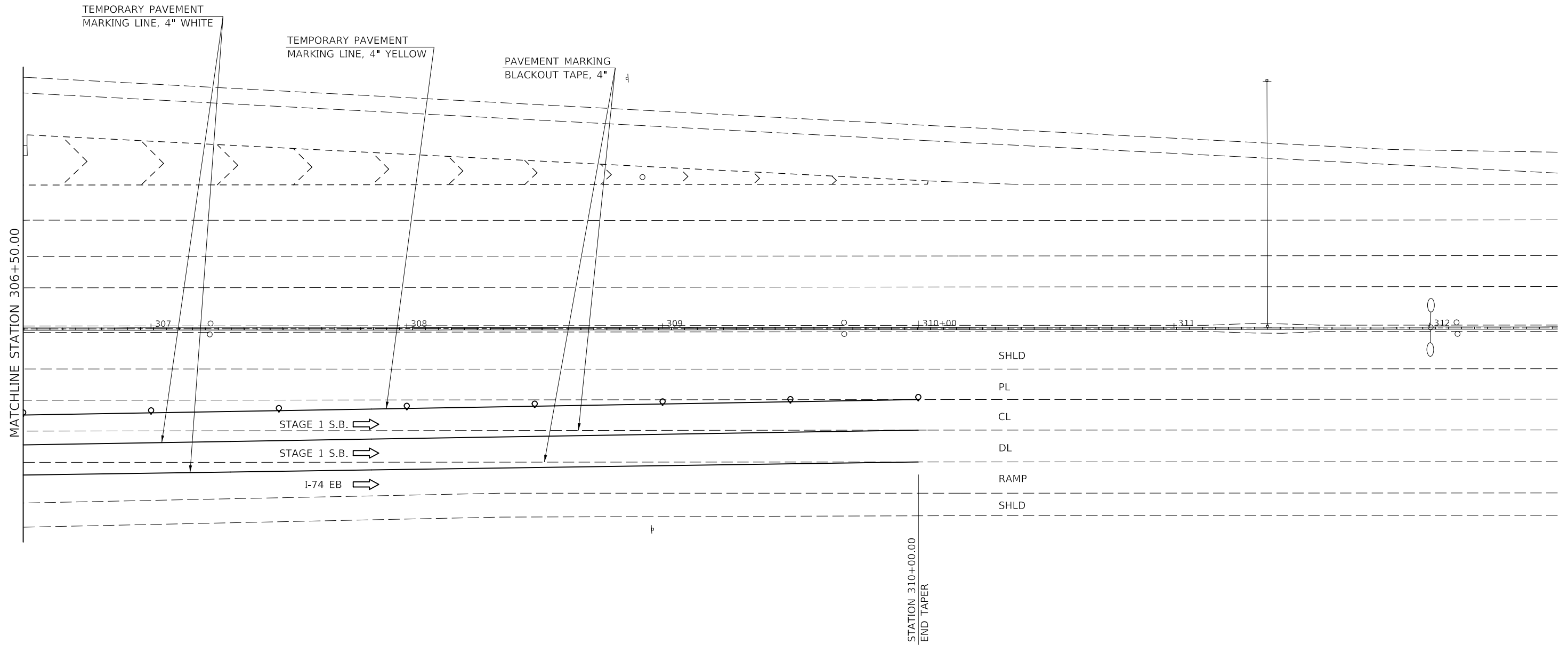
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)
STAGE 1 S.B. S.N. 057-0223

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. 300+50.00 TO STA. 306+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	29
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS		FED. AID PROJECT		

STAGE 1 S.B.
S.N. 057-0223



LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- ◇ TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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PLOT DATE = 7/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)
STAGE 1 S.B. S.N. 057-0223

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. 306+50.00 TO STA. 312+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	30
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

STAGE 2 S.B.
S.N. 057-0223

T.C. & P. 701400 & 701402
 500' TANGENT 290+75.00 TO 295+75.00
 1000' TAPER 280+75.00 TO 290+75.00

NOTE:
 701400 - AN ADDITIONAL SET OF 3 MILE RCA,
 WZPIS, & CMS IS NEEDED ON I-39 S.B.

STATION 295+75.00
 BEGIN TAPER



W1-4
 48"

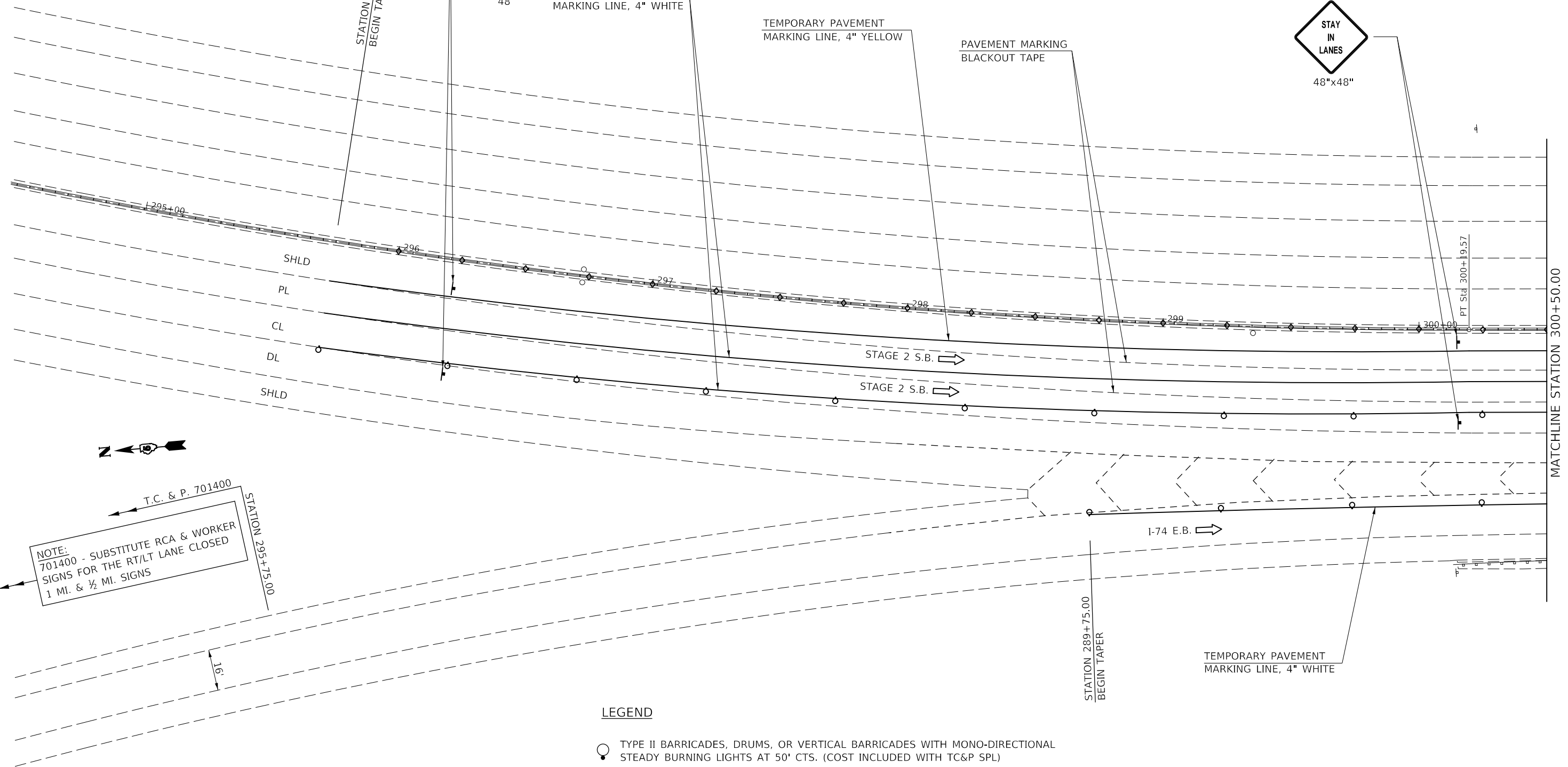
TEMPORARY PAVEMENT
 MARKING LINE, 4" WHITE

TEMPORARY PAVEMENT
 MARKING LINE, 4" YELLOW

PAVEMENT MARKING
 BLACKOUT TAPE



48"x48"



T.C. & P. 701400

NOTE:
 701400 - SUBSTITUTE RCA & WORKER
 SIGNS FOR THE RT/LT LANE CLOSED
 1 MI. & 1/2 MI. SIGNS

STATION 295+75.00

STAGE 2 S.B. →

STAGE 2 S.B. →



I-74 E.B. →

STATION 289+75.00
 BEGIN TAPER

TEMPORARY PAVEMENT
 MARKING LINE, 4" WHITE

MATCHLINE STATION 300+50.00

LEGEND

-  TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
-  TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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 PROJECT: 70087...
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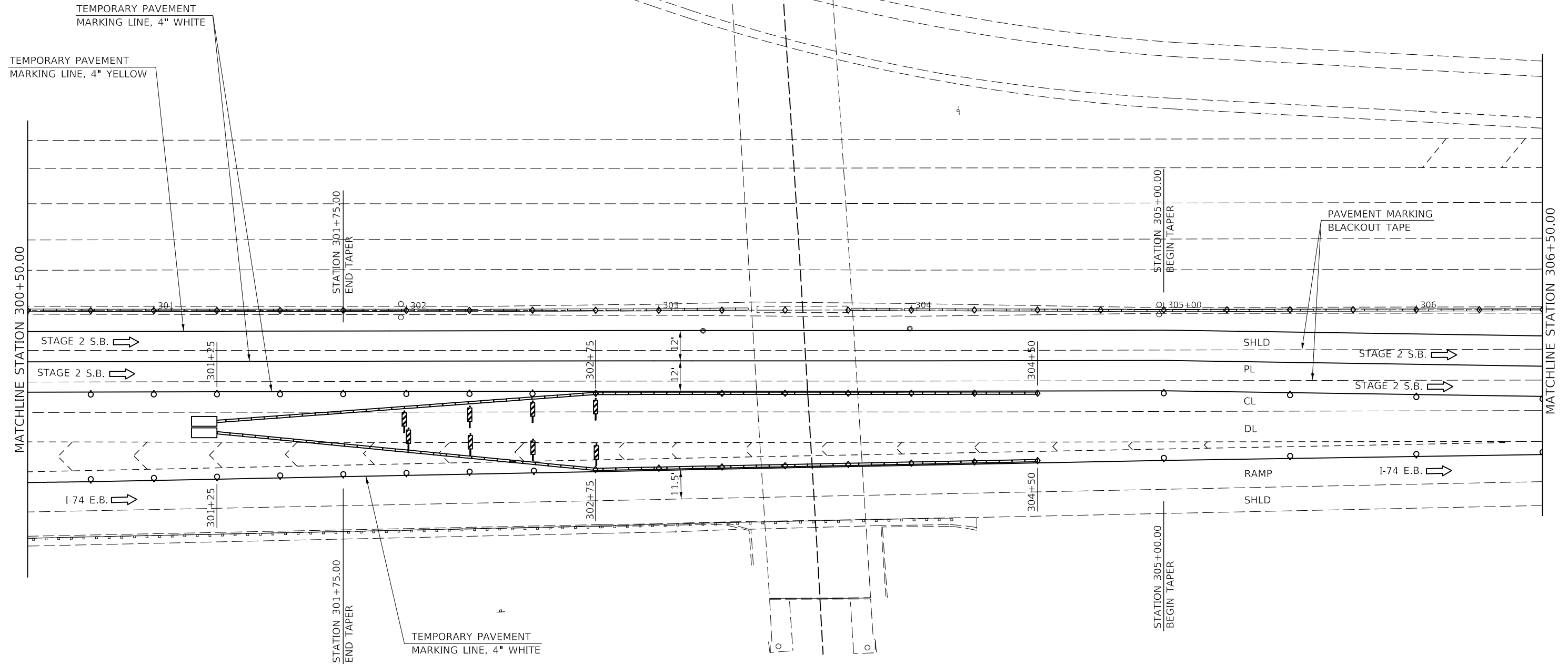
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)
STAGE 2 S.B. S.N. 057-0223
 SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. 295+00.00 TO STA. 300+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	31
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS FED. AID PROJECT				

STAGE 2 S.B.
S.N. 057-0223



LEGEND

○ TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)

◇ TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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 PROJECT: \\PROJECTS\057-0223\TRAFFIC\057-0223-TCP-SPECIAL.dwg

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PLOT DATE = 7/29/2020	DATE -	REVISED -

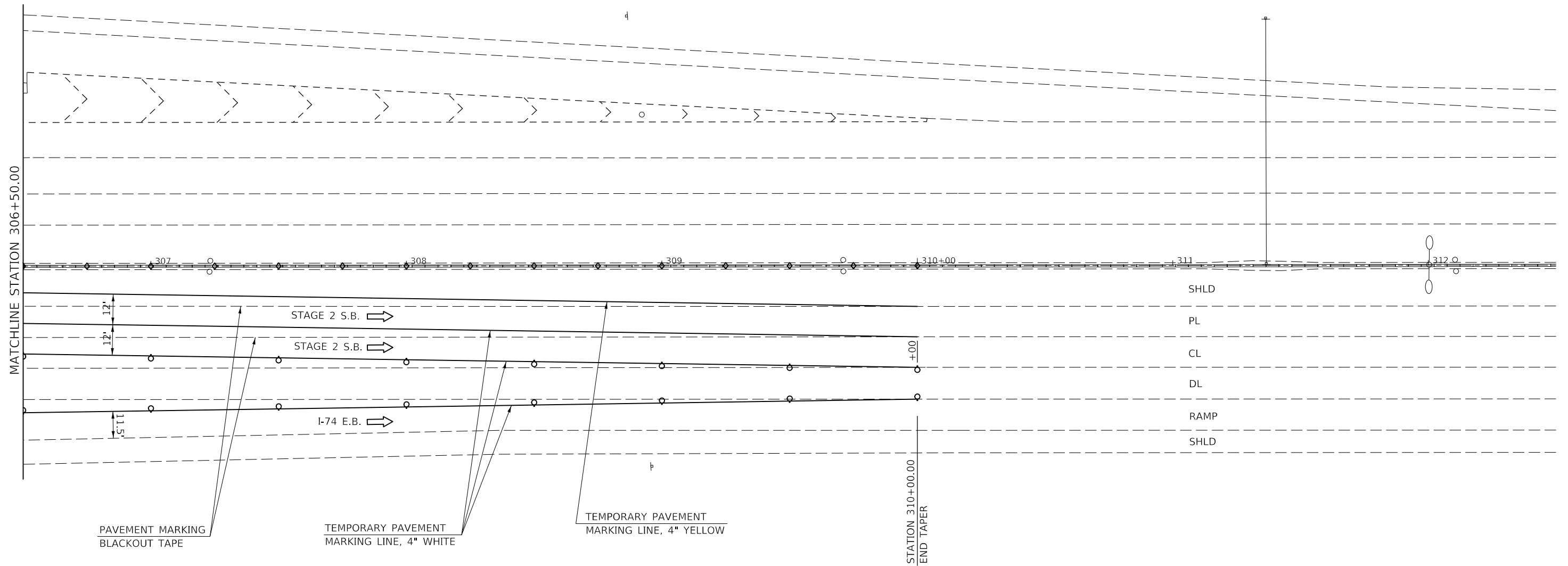
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)
STAGE 2 S.B. S.N. 057-0223

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. 300+50.00 TO STA. 306+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	32
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

STAGE 2 S.B.
S.N. 057-0223



LEGEND

○ TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)

◇ TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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PLOT DATE = 7/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)
STAGE 2 S.B. S.N. 057-0223

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. 306+50.00 TO STA. 312+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	33
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

STAGE 3 S.B.
S.N. 057-0223

T.C. & P. 701400 & 701402
500' TANGENT 290+75 TO 295+75
1000' TAPER 280+75 TO 290+75

NOTE:
701400 - AN ADDITIONAL SET OF 3 MILE RCA,
WZPIS, & CMS IS NEEDED ON I-39 S.B.

STATION 295+75.00
BEGIN TAPER



W1-4
48"

NOTE:
STAGE 2 S.B. T. C. & P.
WITHOUT BARRIER,
LEAVE IN PLACE DURING
STAGE 3

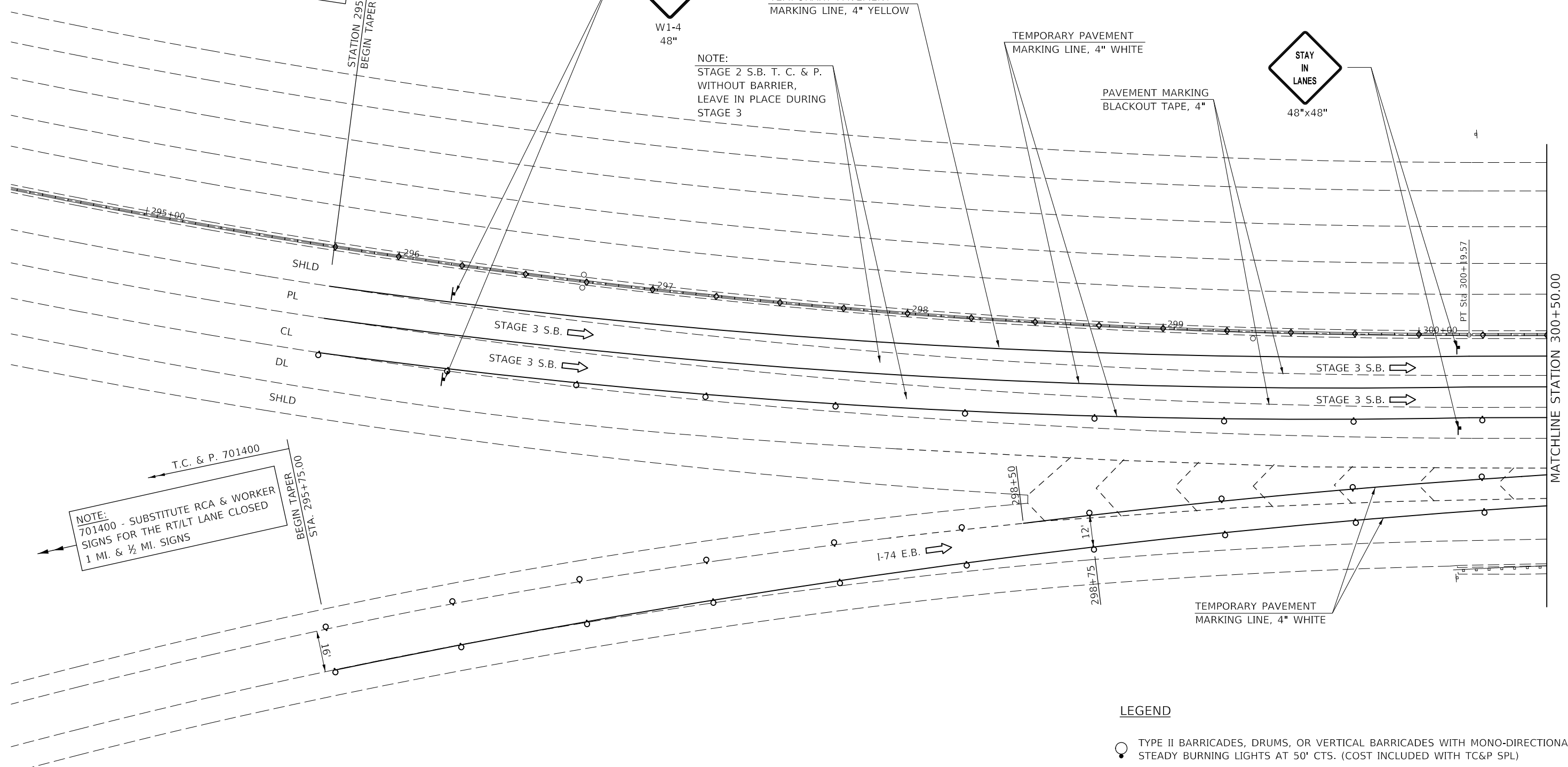
TEMPORARY PAVEMENT
MARKING LINE, 4" YELLOW

TEMPORARY PAVEMENT
MARKING LINE, 4" WHITE

PAVEMENT MARKING
BLACKOUT TAPE, 4"



48"x48"



T.C. & P. 701400

NOTE:
701400 - SUBSTITUTE RCA & WORKER
SIGNS FOR THE RT/LT LANE CLOSED
1 MI. & 1/2 MI. SIGNS

BEGIN TAPER
STA. 295+75.00

LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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PLOT DATE = 7/29/2020	DATE -	REVISED -

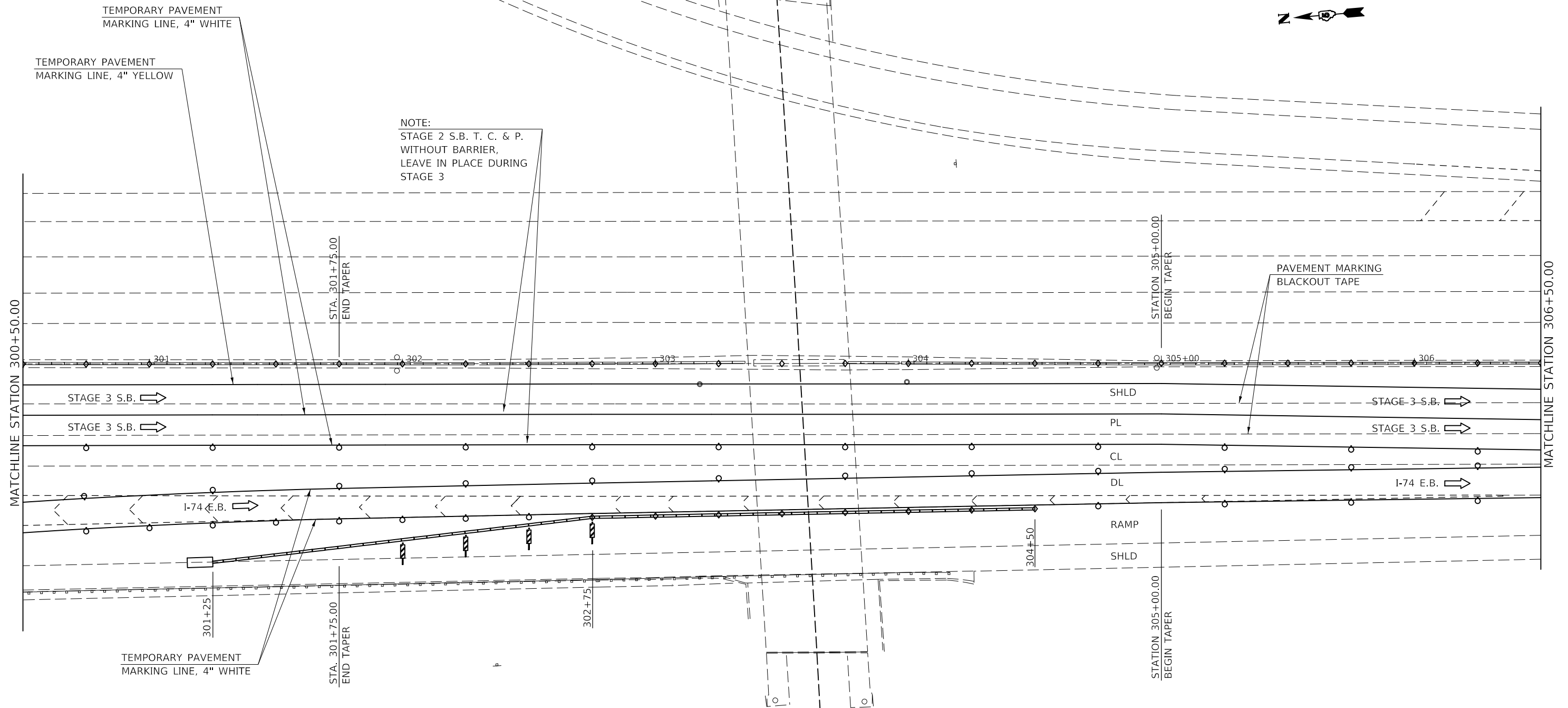
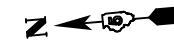
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)			
STAGE 3 S.B. S.N. 057-0223			
SCALE: 1" = 20'	SHEET 1	OF 3 SHEETS	STA. 295+00.00 TO STA. 300+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	34
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS FED. AID PROJECT				

MATCHLINE STATION 300+50.00

STAGE 3 S.B.
S.N. 057-0223



NOTE:
STAGE 2 S.B. T. C. & P.
WITHOUT BARRIER,
LEAVE IN PLACE DURING
STAGE 3

LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- ◇ TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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	DRAWN -	REVISED -
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PLOT DATE = 7/29/2020	DATE -	REVISED -

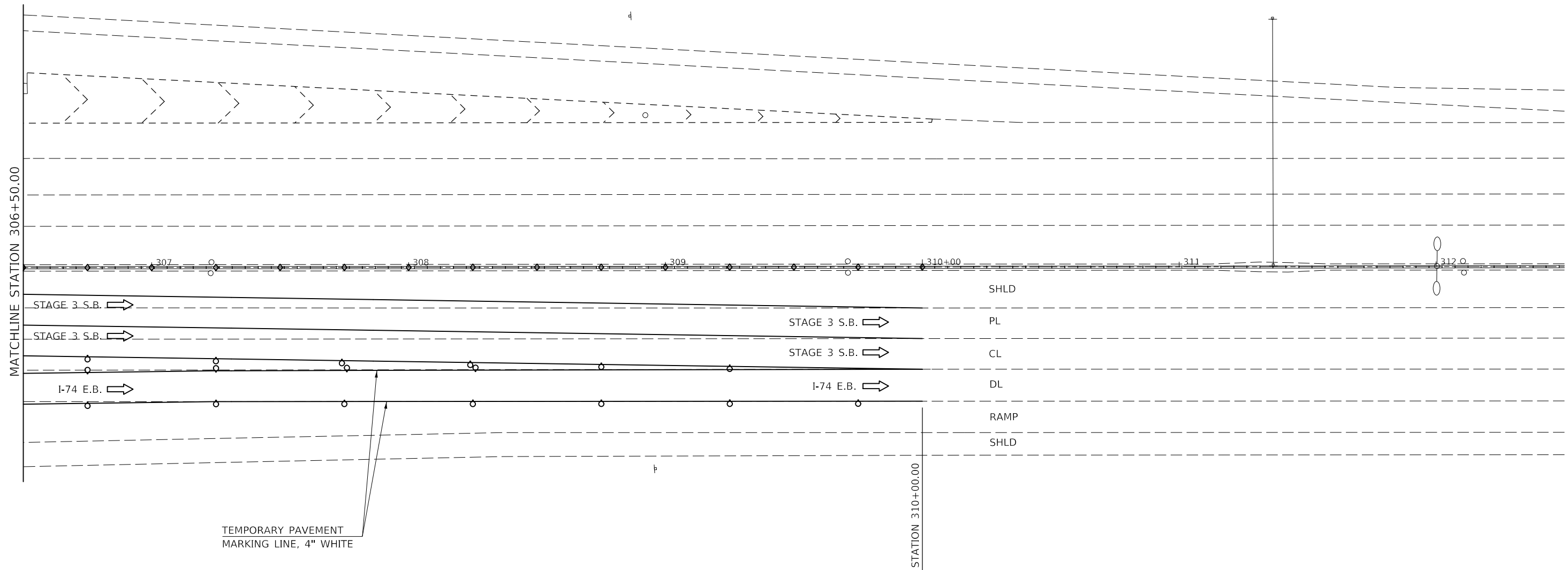
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)
STAGE 3 S.B. S.N. 057-0223

SCALE: 1" = 20'	SHEET 2	OF 3	SHEETS	STA. 300+50.00	TO STA. 306+50.00
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	35
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70DB7		
ILLINOIS FED. AID PROJECT				

STAGE 3 S.B.
S.N. 057-0223



LEGEND

- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P SPL)
- ◇ TYPE C MONO OR BI-DIRECTIONAL REFLECTORS AT 25' CTS.

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USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

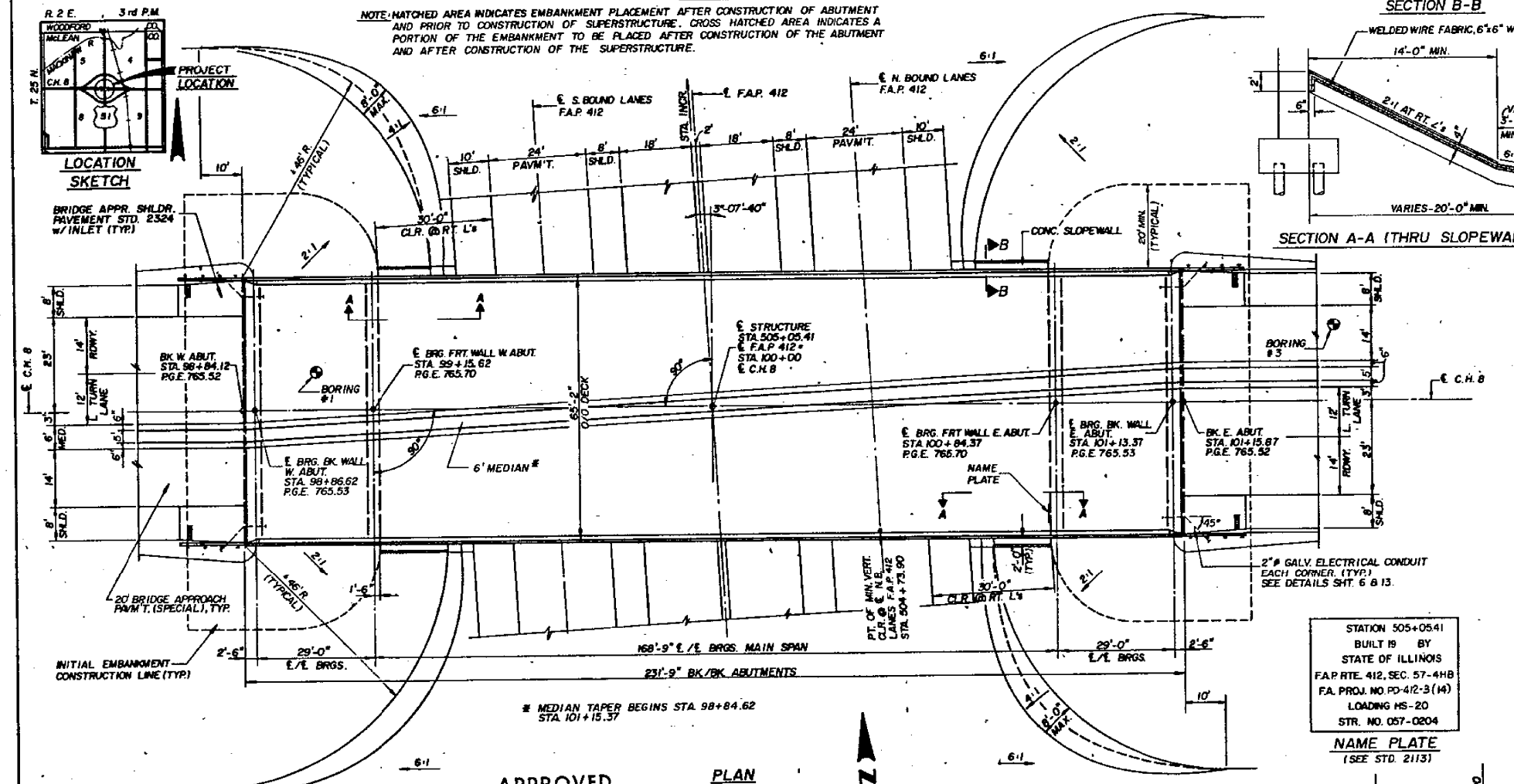
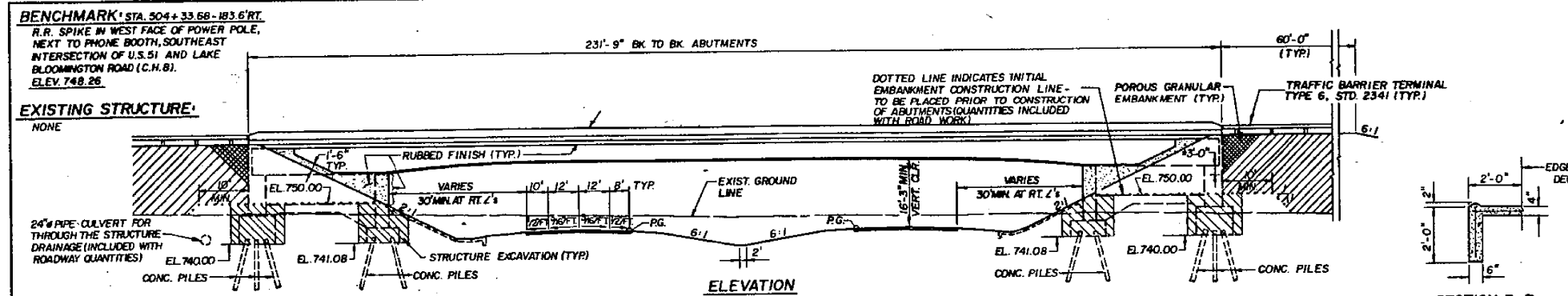
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION (SPECIAL)
STAGE 3 S.B. S.N. 057-0223

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. 306+50.00 TO STA. 312+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	36
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
		ILLINOIS	FED. AID PROJECT	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 8 / F.A.P. 412	57-4HB	MCLEAN	69	37



- GENERAL NOTES:**
- SEE SHEET NO. 16 FOR BORING DATA.
 - FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 7/8" OPEN HOLES 15/16". UNLESS OTHERWISE NOTED.
 - TIGHTENING AND INSPECTION OF ALL HIGH STRENGTH BOLT CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ISSUE OF THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 (M60) OR A490 (M253) BOLTS FOR SLIP-CRITICAL CONNECTIONS. EXCEPT TIGHTENING METHOD USING THE CALIBRATED WRENCH IS NOT ALLOWED.
 - CALCULATED WEIGHT OF STRUCTURAL STEEL IS: AASHTO M183 = 69,520 LBS. AASHTO M223, GR. 50 = 435,440 LBS. TOTAL = 504,960 LBS.
 - THE ZINC SILICATE AND VINYL PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL EXCEPT WHERE OTHERWISE NOTED.
 - FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE TOP AND BOTTOM FLANGES OF GIRDERS FROM THE GIRDER ENDS TO SPLICE LOCATIONS. 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.
 - 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, WEBS AND ALL SPLICE PLATE MATERIAL OF THE STEEL GIRDERS.
 - REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-48 OR M-53, GRADE 60.
 - BEARING SEAT SURFACES SHALL BE CONSTRUCTED OR ADJUSTED TO THE DESIGNATED ELEVATIONS WITHIN A TOLERANCE OF 1/8" ADJUSTMENT SHALL BE MADE EITHER BY GRINDING THE SURFACE OR BY SHIMMING THE BEARING. FOR TYPE I ELASTOMERIC BEARINGS SHIMS SHALL BE PROVIDED AND PLACED AS DETAILED.
 - THE CONTRACTOR SHALL DRIVE TWO (2) CONCRETE TEST PILES IN PERMANENT LOCATIONS, ONE EACH AT WEST ABUTMENT FRONT WALL AND EAST ABUTMENT BACK WALL, AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.
 - ALL STRUCTURAL STEEL FABRICATORS PERFORMING WORK ON THE MAIN LOAD CARRYING COMPONENTS OF STEEL STRUCTURES SHALL BE CERTIFIED UNDER CATEGORY III (AISC) OF THE QUALITY CERTIFICATION PROGRAM.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
POROUS GRANULAR EMBANKMENT	CU.YD.	—	—	285
STRUCTURE EXCAVATION	CU.YD.	—	1,465	1,465
PROTECTIVE COAT	SQ.YD.	1,780	—	1,780
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	—	36	36
CLASS A CONCRETE	CU.YD.	—	484.6	484.6
CLASS X CONCRETE	CU.YD.	—	574.8	574.8
CLASS X CONCRETE SUPERSTRUCTURE	CU.YD.	497.6	—	497.6
FURNISHING AND ERECTING STRUCTURAL STEEL	L. SUM	—	—	1
STUD SHEAR CONNECTORS	EACH	—	2,187	2,187
REINFORCEMENT BARS	POUND	—	58,541	58,541
REINFORCEMENT BARS, EPOXY COATED	POUND	126,710	12,199	138,909
CONCRETE PILES	LIN. FT.	—	4,686	4,686
TEST PILE CONCRETE	EACH	—	2	2
NAME PLATES	EACH	—	1	1
SLOPE WALL 4 INCH	SQ. YD.	—	364	364
TIE DOWN DEVICE	EACH	—	18	18
GEOCOMPOSITE WALL DRAIN	SQ. YD.	—	132	132
SCREEN PANELS	EACH	—	16	16
RUBBED FINISH	SQ. FT.	—	4,781	4,781

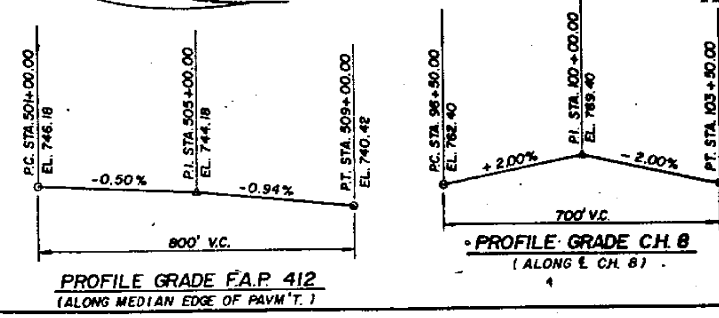
APPROVED
FOR STRUCTURAL ADEQUACY ONLY
James T. Doughty
Engineer of Bridge & Structures

DESIGN SPECIFICATIONS
AASHTO 1983 AND 1984, 1985 & 1986 INTERIMS

LOADING HS20-44
ALLOW 251/50 FT FOR FUTURE WEARING SURFACE.

DESIGN STRESSES
f_c = 3,500 PSI.
f_y = 60,000 PSI. (REINFORCEMENT)
f_y = 50,000 PSI. (STRUCTURAL STEEL AASHTO M223, GR 50)
f_y = 35,000 PSI. (M183 STEEL)

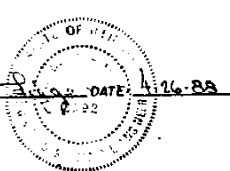
MAX. RANGE OF TEMPERATURE = 120°F (-10° TO 110°F).



GENERAL PLAN & ELEVATION
C.H. 8 OVER F.A.P. ROUTE NO. 412
F.A.P. ROUTE 412, SEC. 57-4HB
McLEAN COUNTY
STATION 505+05.41
STRUCTURE NO. 057-0204

DESIGNED:	V.S.N.
CHECKED:	K.L.F.
DRAWN:	J.D.S.
CHECKED:	K.L.F.

KENNETH L. FIGGE
REGISTERED STRUCTURAL
ENGINEER IN ILLINOIS
NO. 2992



MODEL: I:\MODEL\NAME... FILE: NAME: I:\MODEL\NAME...

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE = 7-26-88	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #1 S.N. 057-0204

SCALE: NONE SHEET 1 OF 7 SHEETS STA. TO STA.

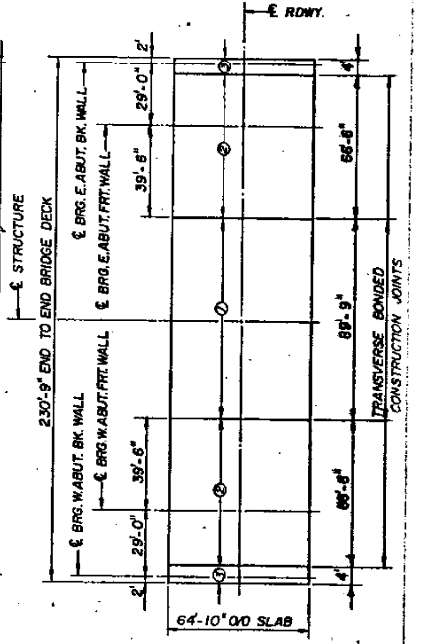
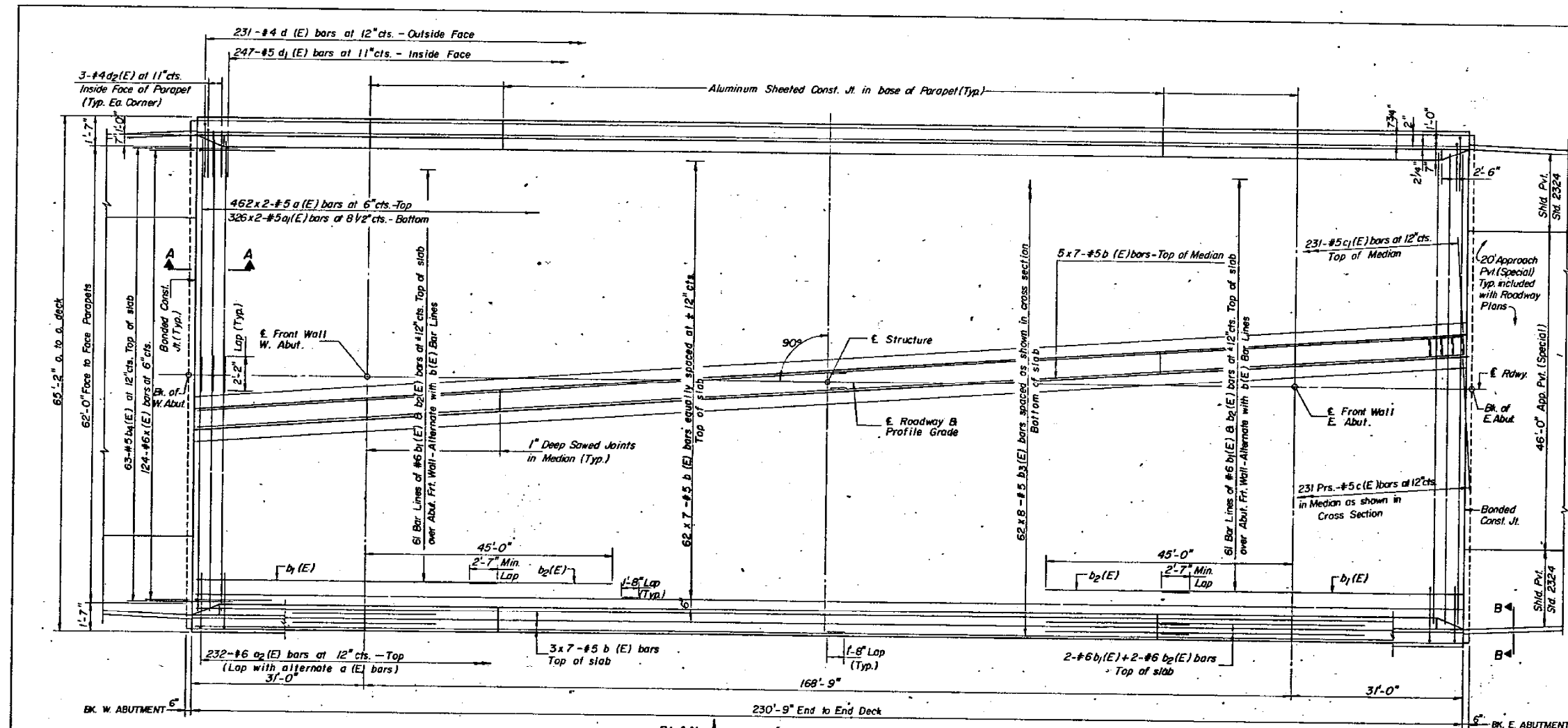
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
412	57-4HB	MCLEAN	69	37

*D5 BRIDGE PAINTING 2021-1 CONTRACT NO. 70D87
ILLINOIS FED. AID PROJECT

C.H. 8
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 8 / F.A.P. 412	57-4HB	MCLEAN	69	29

SHEET NO. 5 OF 16 SHEETS

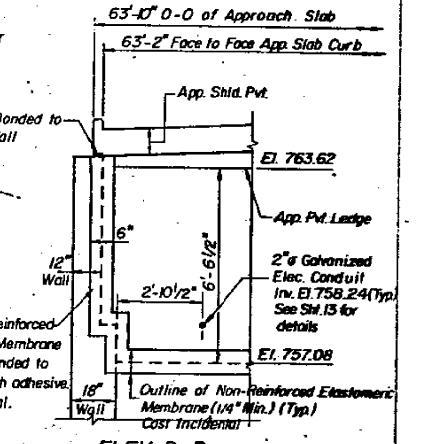
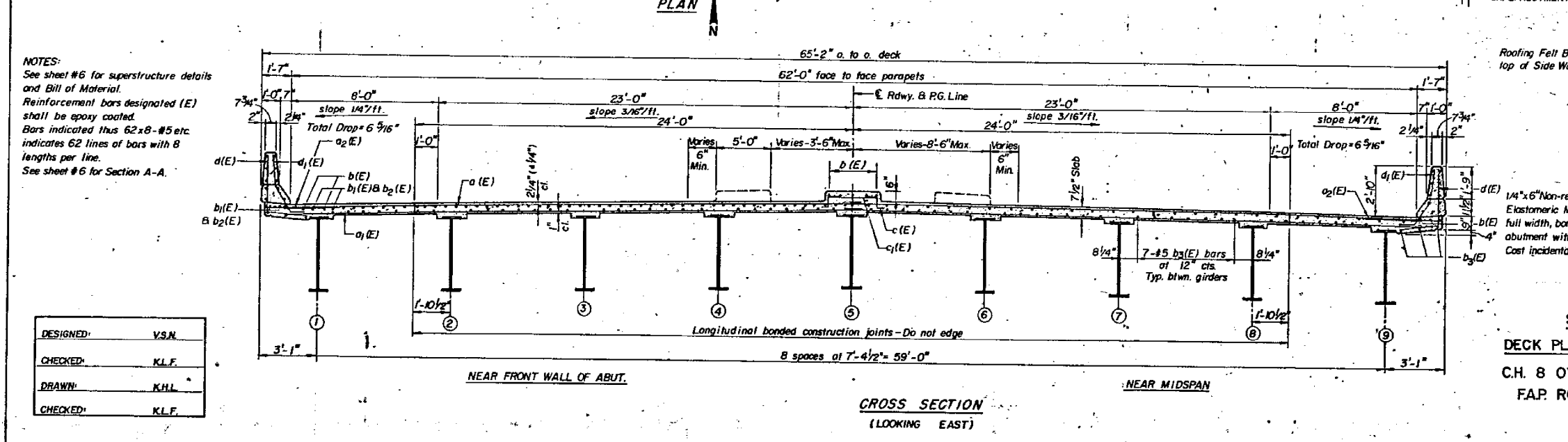


**SKETCH PLAN
BRIDGE DECK SLAB**

NOTE: DECK POURING SHALL BE DONE ONLY AFTER THE DOWN RODS HAVE BEEN PRESTRESSED.

DECK POURING SEQUENCE:

- POUR SLAB AREA ①
- POUR SLAB AREAS ②
- FINALLY POUR END AREAS ③ TO COMPLETE DECK POURING.



**ELEV. B-B
BK. OF ABUT.**

**SUPERSTRUCTURE
DECK PLAN AND CROSS SECTION**

C.H. 8 OVER F.A.P. ROUTE NO. 412
F.A.P. ROUTE 412, SEC. 57-4HB
MCLEAN COUNTY

NOTES:
See sheet #6 for superstructure details and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 62x8-#5 etc. indicates 62 lines of bars with 8 lengths per line.
See sheet #6 for Section A-A.

DESIGNED:	V.S.M.
CHECKED:	K.L.F.
DRAWN:	K.H.L.
CHECKED:	K.L.F.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #1 S.N. 057-0204

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MCLEAN	69	38

*D5 BRIDGE PAINTING 2021-1 CONTRACT NO. 70D87
ILLINOIS FED. AID PROJECT

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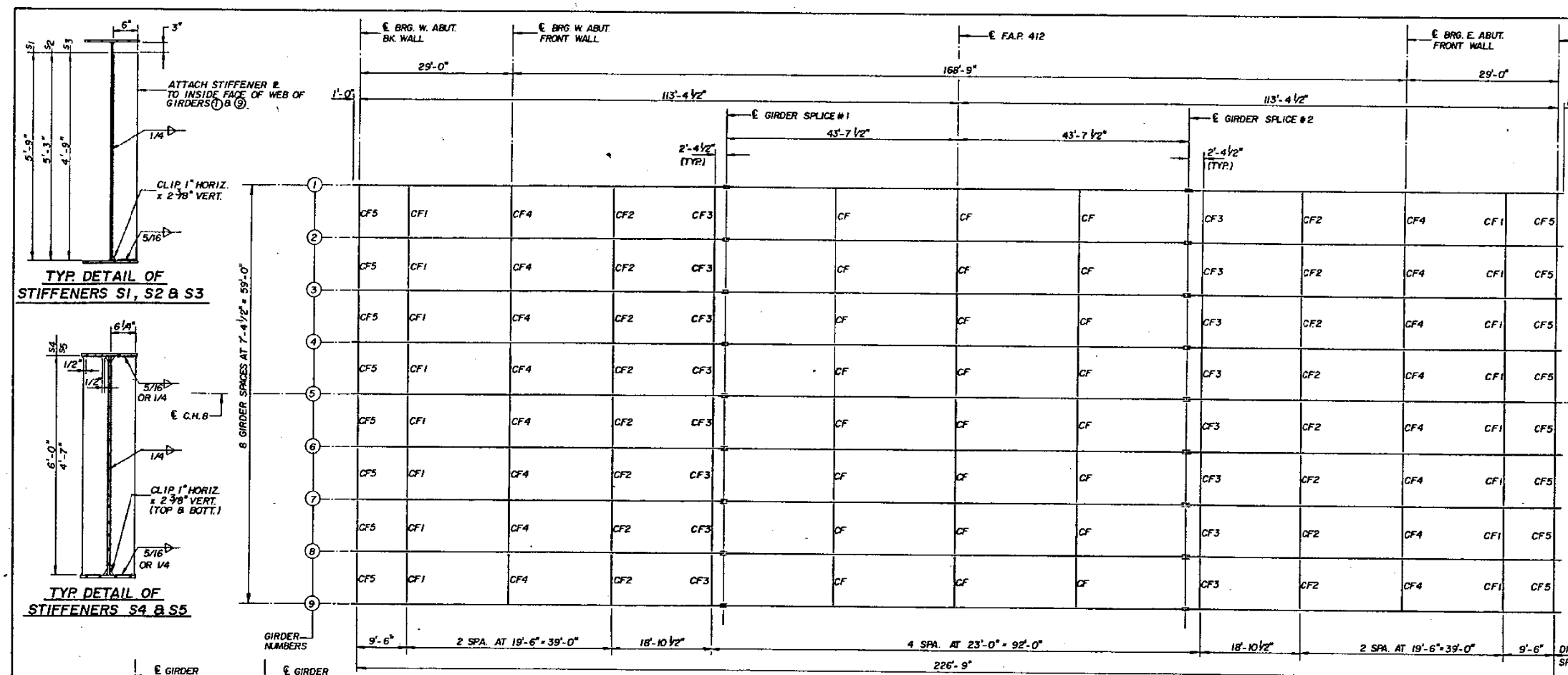
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C.H. 8

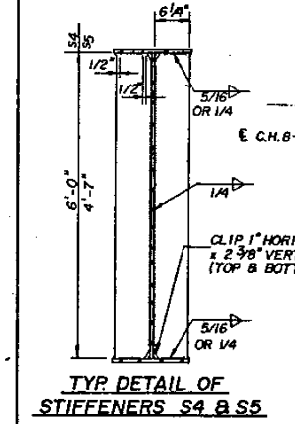
FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 8 / F.A.P. 412	75-4HB	MCLEAN	69	31

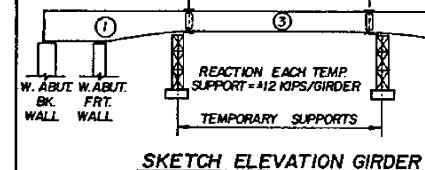
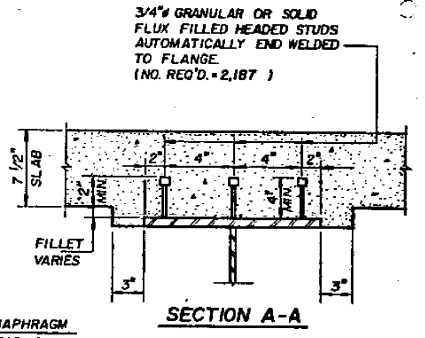
SHEET NO. 7 OF 16 SHEETS



TYP DETAIL OF STIFFENERS S1, S2 & S3



PLAN
ELEVATION
TYPICAL DETAIL AT FLANGE TRANSITIONS
DETAIL B

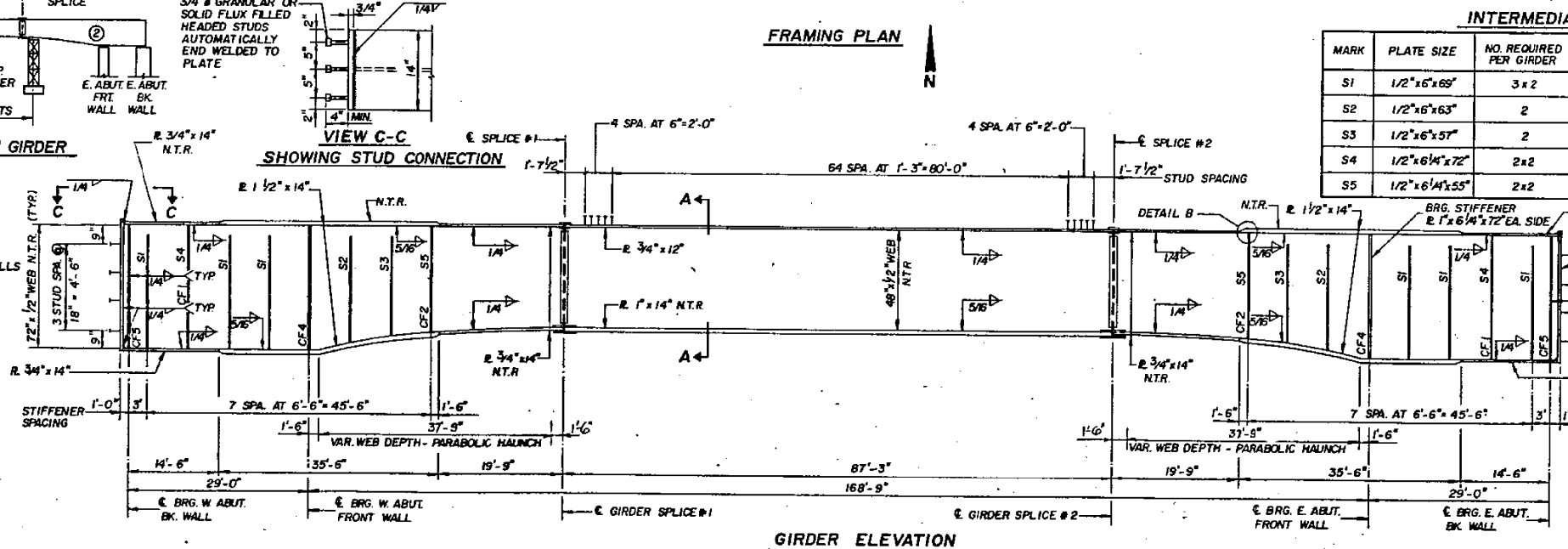


- ERECTION SEQUENCE:**
1. CONSTRUCT ABUTMENTS.
 2. ERECT TEMPORARY SUPPORTS.
 3. ERECT GIRDER SEGMENTS (1) AND (2).
 4. ERECT GIRDER SEGMENT (3) AND SPLICES.
 5. INSTALL TIE DOWN DEVICES AT ABUT. BK. WALLS TO INITIAL PRELOAD FORCE.
 6. REMOVE TEMPORARY SUPPORTS.
 7. CAST DECK. SEE DECK POURING SEQUENCE SHEET # 5.
- NOTE: THE CONTRACTOR MAY SUBMIT HIS OWN METHOD OF ERECTION. THE CONTRACTOR'S METHOD SHALL BE APPROVED BY THE ENGINEER BEFORE STARTING OF ALL WORK.

DESIGNED	V.S.N.
CHECKED	K.L.F.
DRAWN	J.S.
CHECKED	K.L.F.

INTERMEDIATE STIFFENER TABLE

MARK	PLATE SIZE	NO. REQUIRED PER GIRDER	WEB TO STIFFENER WELD SIZE	TOP FLANGE TO STIFFENER WELD SIZE	END FLANGE TO STIFFENER WELD SIZE	REQUIRED PER LOCATION
S1	1/2" x 6" x 69"	3 x 2	1/4"	N/A	5/16"	1
S2	1/2" x 6" x 63"	2	1/4"	N/A	5/16"	1
S3	1/2" x 6" x 57"	2	1/4"	N/A	5/16"	1
S4	1/2" x 6 1/4" x 72"	2 x 2	1/4"	1/4"	1/4"	2 (ONE EA. SIDE)
S5	1/2" x 6 1/4" x 55"	2 x 2	1/4"	5/16"	5/16"	2 (ONE EA. SIDE)



FRAMING PLAN & GIRDER ELEVATION
C.H. 8 OVER F.A.P. ROUTE NO. 412
F.A.P. ROUTE 412, SEC. 57-4HB
MCLEAN COUNTY
STATION 505+05.41

"N.T.R." DENOTES PLATES TO WHICH NOTCH TOUGHNESS REQUIREMENTS ARE APPLICABLE.
ALL GIRDER STEEL, INCLUDING BEARING STIFFENERS SHALL BE A.A.S.H.T.O. M 223, GRADE 50.

NOTE: LOCATE INTERMEDIATE STIFFENERS S1, S2 OF S3 ON INSIDE FACE OF WEB OF GIRDERS (1) & (2).

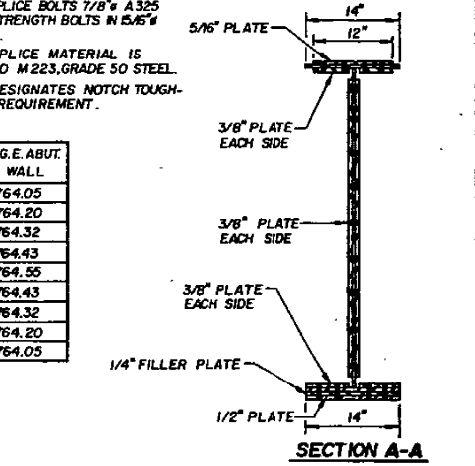
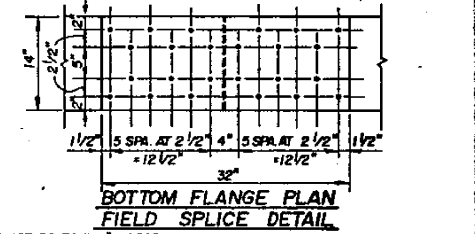
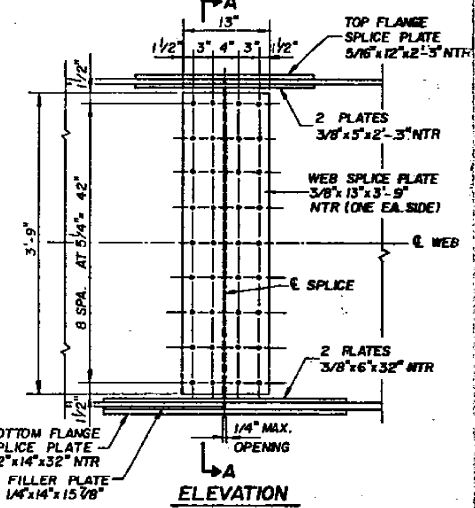
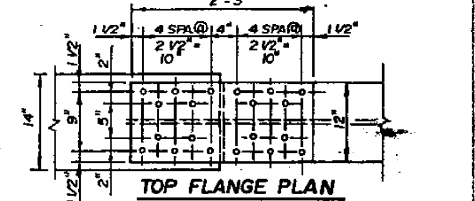
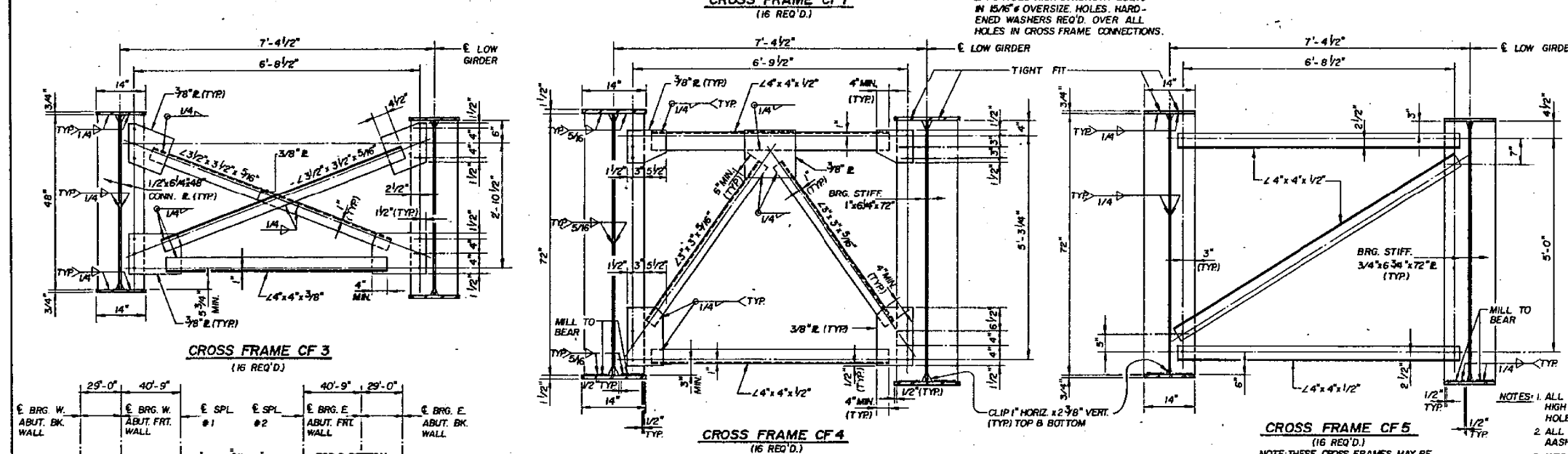
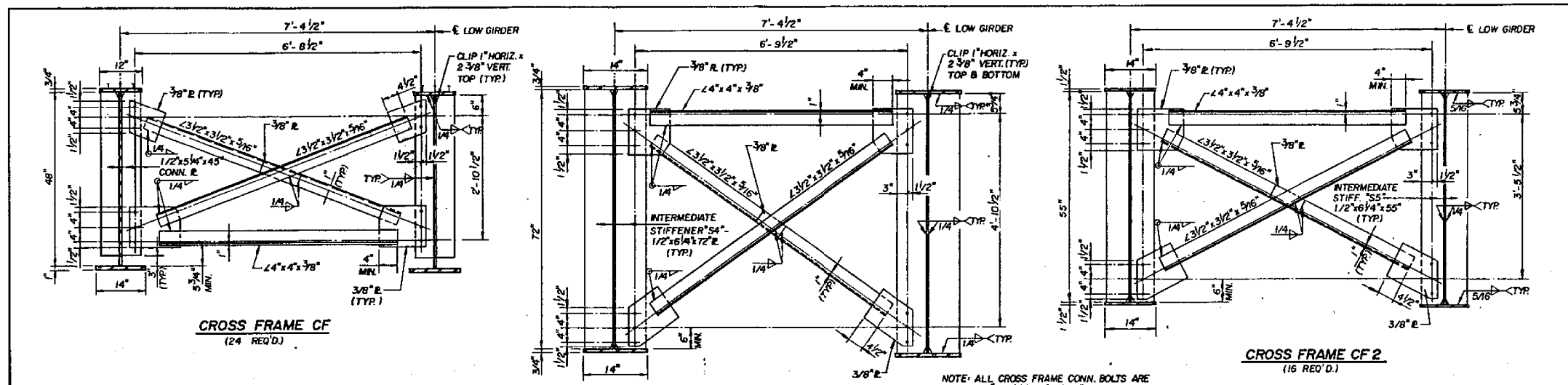
C.H. 8

FOR INFORMATION ONLY

USER NAME = eaglinga	DESIGNED -	REVISED -	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 40,0000' / in.	DRAWN -	REVISED -	VAR.		MCLEAN	69	39
PLOT DATE = 7/29/2020	CHECKED -	REVISED -	SCALE: NONE		SHEET 3 OF 7 SHEETS		STA. TO STA.
	DRAWN -	REVISED -	AS-BUILT PLANS		LOCATION #1 S.N. 057-0204		ILLINOIS / FED. AID PROJECT
	CHECKED -	REVISED -	STATE OF ILLINOIS		DEPARTMENT OF TRANSPORTATION		CONTRACT NO. 70D87
	DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION		CONTRACT NO. 70D87		ILLINOIS / FED. AID PROJECT

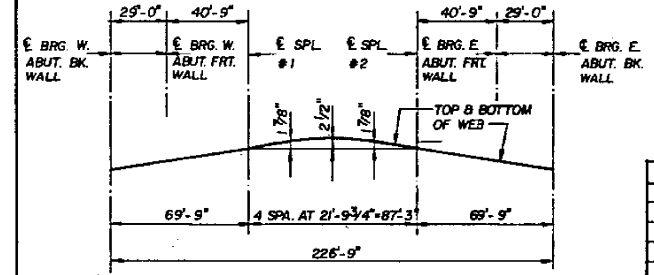
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 8 / F.A.P. 412	75-4HB	McLEAN		32

SHEET NO. 8 OF 16 SHEETS
2'-3"



NOTE: ALL CROSS FRAME CONN. BOLTS ARE 3/4\" A 325 HIGH STRENGTH BOLTS IN 15/16\" OVERSIZE HOLES. HARDENED WASHERS REQ'D. OVER ALL HOLES IN CROSS FRAME CONNECTIONS.

NOTES: 1. ALL SPLICE BOLTS 7/8\" A 325 HIGH STRENGTH BOLTS IN 15/16\" HOLES.
2. ALL SPLICE MATERIAL IS AASHTO M 223, GRADE 50 STEEL.
3. NTR DESIGNATES NOTCH TOUGHNESS REQUIREMENT.



MOMENT TABLE: Symmetrical Composite 3 Span (Composite in Positive Moment Area Only)

INTERIOR GIRDER	MOMENT TABLE		
	0.5 Sp.1	Abut. Frt. Wall	0.5 Sp.2
I_s (in ⁴)	43,339	72,284	18,035
I_c (in ⁴)			47,030
S_s (in ³)	1,179	1,928	806
S_c (in ³)			1,129
Q (K/ft)	0.930	0.930	0.890
M_R (K)	1,067	2,338	890
s_R (K/ft)	0.290	0.290	0.290
M_S (K)	305	671	362
M_L (K)	600	1,213	949
M_{imp} (K)	180	271	161
$S_3(M_R + I)$ (K)	1,299	2,473	1,850
M_A (K)	3,472	7,127	4,033
f_s non-comp. (k.s.i.)	10.9	14.6	13.3
f_s comp. (k.s.i.)	3.1	4.2	3.9
$f_s^3(L+I)$ (k.s.i.)	13.2	15.4	19.7
f_s (Overload) (k.s.i.)	27.2	34.2	36.9
f_s (Total) (k.s.i.)	35.4	44.5	48.0
VR (K)			49.6

INTERIOR GIRDER REACTION TABLE	Abut. Bk. Wall		Abut. Frt. Wall	
	R _U (K)	R _L (K)	R _U (K)	R _L (K)
R _U (K)	-85.6	224.6		
R _L (K)	-45.5	102.4		
Imp (K)	-13.7	17.4		
R Total (K)	-144.8	344.4		

*Non-compact section.
 M_A Applied Moment = $1.3 [M_R + M_S + S_3(M_R + I)]$
 I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total and Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total and Overload).
 VR is the maximum $L+I$ impact shear range in span.
 f_s Total is the sum of the stresses due to $1.3 [M_R + M_S + S_3(M_R + I)]$.
 f_s Overload is the sum of the stresses due to $M_R + M_S + S_3(M_R + I)$.
 M_R - Moment due to the dead loads on non-composite section.
 M_S - Moment due to the dead loads on composite section.
 M_L - Moment due to the live loads on non-composite or composite section.
 I - Live Load Impact.
 (-) sign means uplift.

LOCATION	BRG. W. ABUT. BK. WALL		BRG. W. ABUT. FRT. WALL		SPLICE # 1		SPLICE # 2		BRG. E. ABUT. FRT. WALL		BRG. E. ABUT. BK. WALL	
	1	2	3	4	5	6	7	8	9	10	11	12
GIRDER 1	764.05	764.33	764.73	764.73	764.33	764.05						
GIRDER 2	764.20	764.48	764.88	764.88	764.48	764.20						
GIRDER 3	764.32	764.60	765.00	765.00	764.60	764.32						
GIRDER 4	764.43	764.71	765.11	765.11	764.71	764.43						
GIRDER 5	764.55	764.83	765.23	765.23	764.83	764.55						
GIRDER 6	764.43	764.71	765.11	765.11	764.71	764.43						
GIRDER 7	764.32	764.60	765.00	765.00	764.60	764.32						
GIRDER 8	764.20	764.48	764.88	764.88	764.48	764.20						
GIRDER 9	764.05	764.33	764.73	764.73	764.33	764.05						

ELEVATIONS ABOVE ARE FOR FABRICATION ONLY.

CROSS FRAMES & GIRDER DETAILS
 C.H. 8 OVER F.A.P. ROUTE NO. 412
 F.A.P. ROUTE 412, SEC. 57-4HB
 McLEAN COUNTY

C. H. 8

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 8 / FAP 412	57-4HB	MCLEAN		33

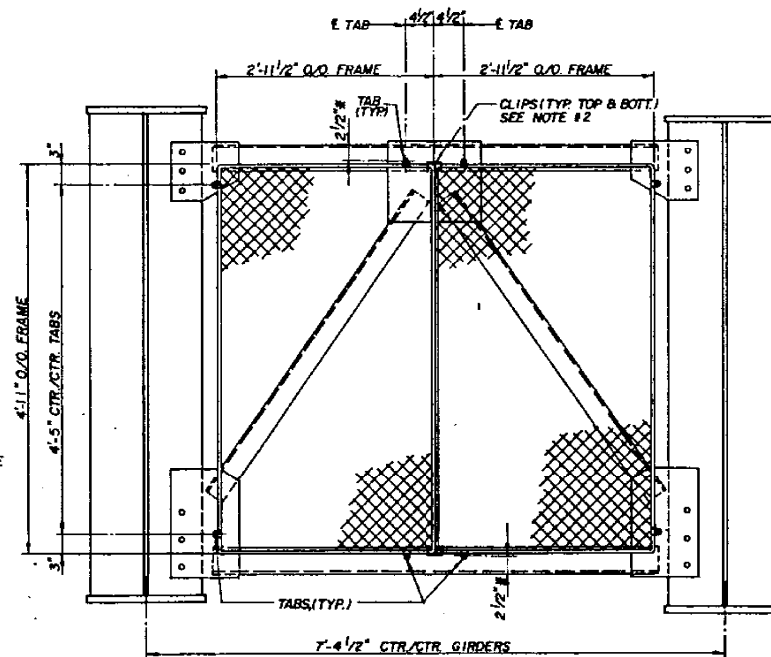
SHEET NO. 9 OF 16 SHEETS

STANDARD CONSTRUCTION
 1. MESH: 1 1/2" DIAMOND
 2. WIRE: NO. 10 WASHBURN & MOEN GIUGE
 3. FRAME: 3/8" ROUND ROD

ALL MATERIALS TO BE GALVANIZED.
 TWO WIRE-MESHED FRAMES SHALL BE PROVIDED FOR EACH SCREEN PANEL.
 FOUR TABS SHALL BE PROVIDED FOR EACH WIRE-MESHED FRAME.

NOTES:

- # INDICATES STANDARD GAGE FOR ANGLES.
- CLIPS SHALL BE PROVIDED FOR PERMANENT SCREEN PANELS.
- ONE ACCESSIBLE SCREEN PANEL SHALL BE PROVIDED AT EACH FRONT ABUTMENT.
- PROVIDE HINGED TABS AT CONNECTIONS TO THE CONNECTION PLATES FOR THE ACCESSIBLE SCREEN PANEL ONLY.

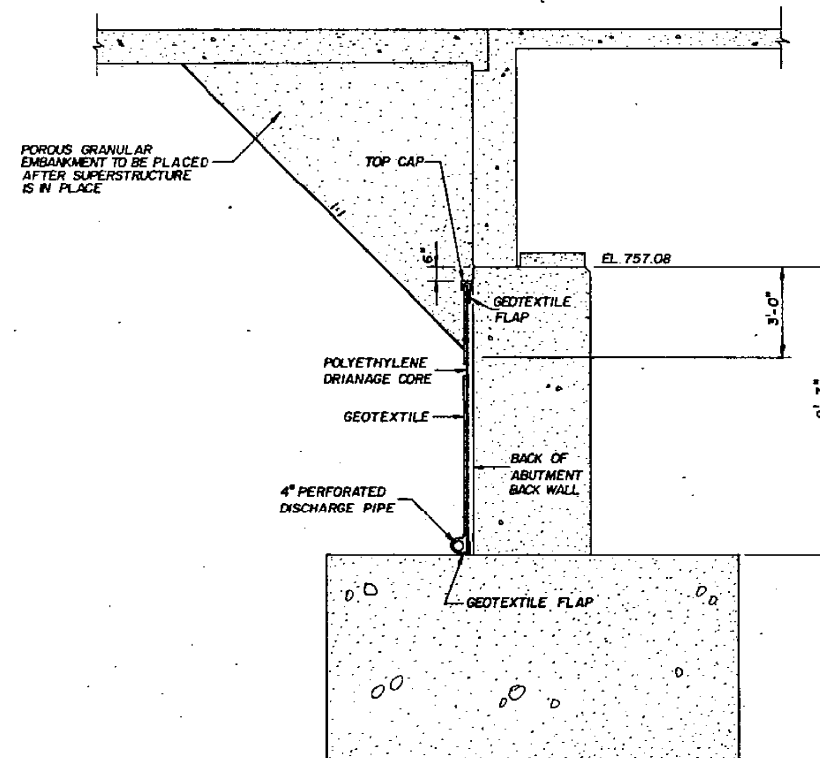


TYPICAL SCREEN PANEL @ FRONT ABUTMENT

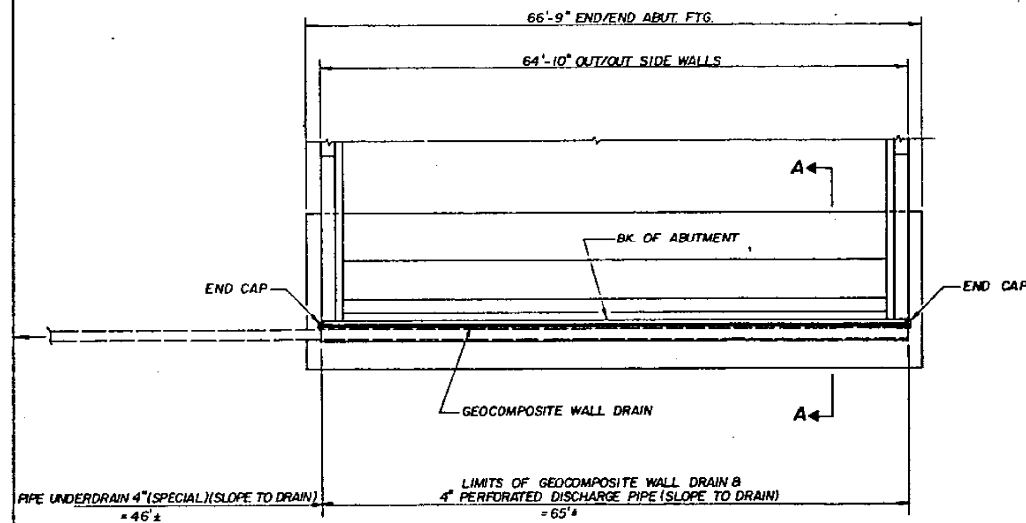
NOTE: SCREEN PANELS TO BE MOUNTED ON CROSS FRAME CF 4 AT E BEARING OF ABUTMENT FRONT WALL. SEE SHEET 8 FOR DETAILS OF CROSS FRAME OF 4.

ERECTION SEQUENCE FOR SCREEN PANELS

- PERMANENT**
 - FIELD CONNECT THE TWO WIRE-MESHED FRAMES WITH A CLIP TYPE CONNECTION.
 - FIELD DRILL HOLES AT THE CONNECTION PLATES AND ANGLES OF THE DIAPHRAGMS TO MATCH THE LOCATION OF THE TABS.
 - USE HIGH STRENGTH BOLTS.
 - THE BOLTS SHALL BE DRAWN UP TIGHT AND THE THREADS BURRED AT THE FACE OF THE NUT WITH A POINTED TOOL.
- ACCESSIBLE**
 SEQUENCE SIMILAR TO PERMANENT SCREEN PANELS WITH EXCEPTION TO PROVIDING A CLIP TYPE CONNECTION.



SECTION A-A THRU GEOCOMPOSITE WALL DRAIN



PLAN - WEST ABUTMENT

ABUTMENT SOIL DRAINAGE DETAILS

NOTE: COST OF PIPE UNDERDRAINS IS INCIDENTAL TO GEOCOMPOSITE WALL DRAIN.

DESIGNED	V.S.N.
CHECKED	K.L.F.
DRAWN	J.D.
CHECKED	K.L.F.

SCREEN PANELS & ABUTMENT SOIL DRAINAGE DETAILS
 CH. 8 OVER FAP. ROUTE 412
 FAP. ROUTE 412, SEC. 57-4HB
 MCLEAN COUNTY
 STATION 505+0541
 STRUCTURE NO. 057-0204

C.H. 8

FOR INFORMATION ONLY

MODEL: 4100DEL.MXD
 FILE: 4100del.dwg
 PROJECT: 057-0204-001
 DRAWING: 057-0204-001-001
 DATE: 7/29/2020

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	DRAWN -	REVISD -
PLOT SCALE = 40.0000' / 1"	CHECKED -	REVISD -
PLOT DATE = 7/29/2020	DATE -	REVISD -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

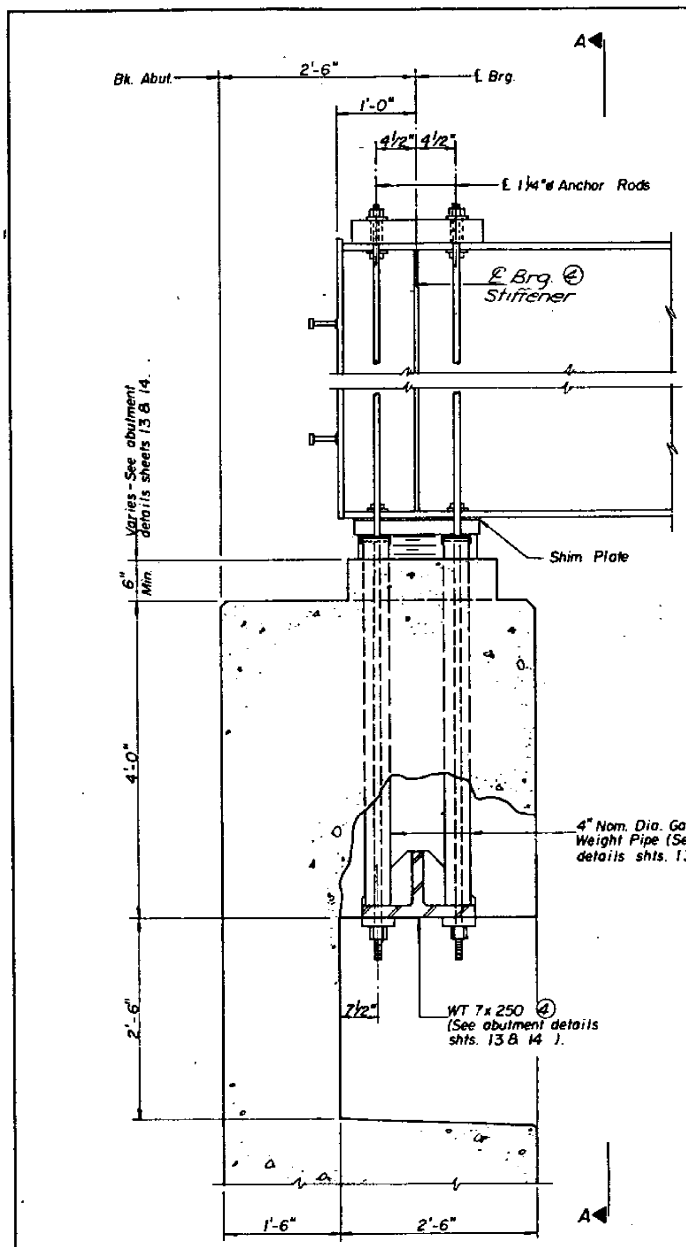
AS-BUILT PLANS
 LOCATION #1 S.N. 057-0204

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

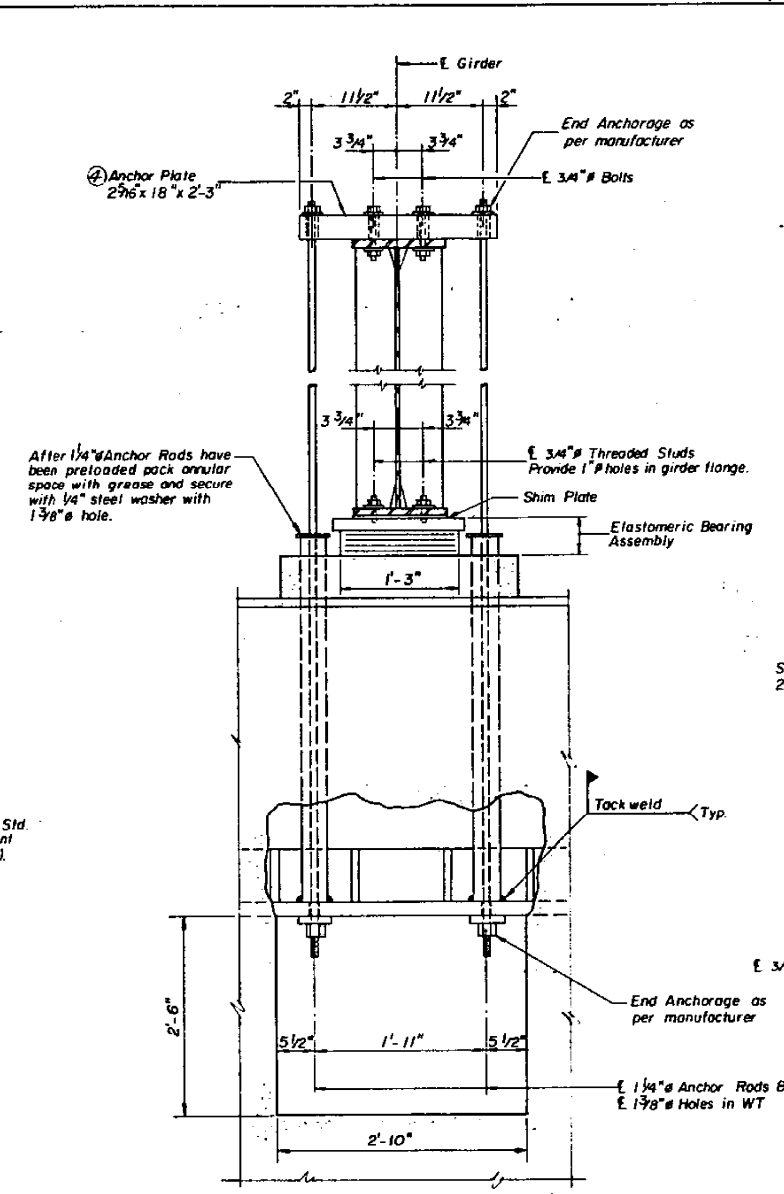
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C.H. B / FAP 412	57-4HB	MCLEAN		34

SHEET NO. 10 OF 16 SHEETS

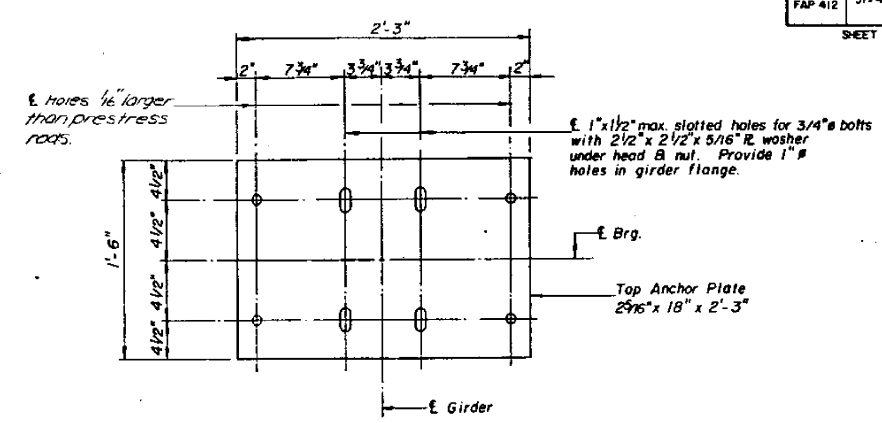


ELEVATION

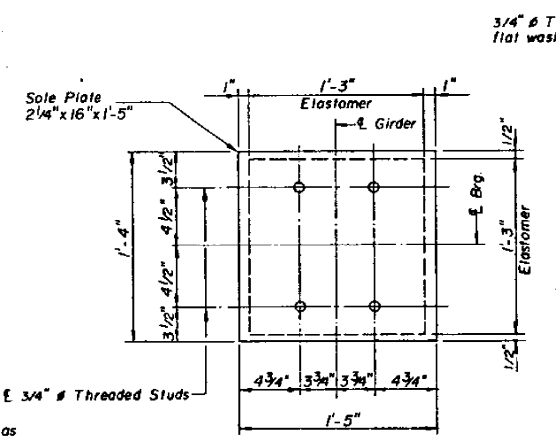
DESIGNED:	V.S.N.
CHECKED:	K.L.F.
DRAWN:	J.S.
CHECKED:	K.L.F.



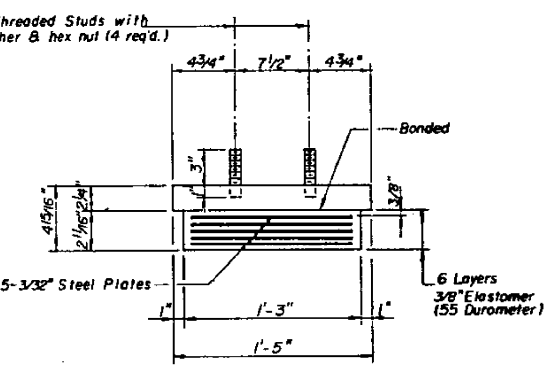
SECTION A-A



PLAN - TOP ANCHOR PLATE



**PLAN - SOLE PLATE
ELASTOMERIC BEARING**



**ELASTOMERIC BEARING
ASSEMBLY**

- NOTE:**
- 1/4" Anchor Rods shall be epoxy coated and shall meet the requirements of AASHTO M275-79, Type II bars with minimum tensile strength of 150,000 p.s.i. and minimum yield strength of 120,000 p.s.i.
 - After girders have been erected (See Erection Sequence, sheet 7), and bearings installed, 1/4" Anchor Rods shall be preloaded to an effective preload force, after initial losses, of 48,000 pounds per anchor rod.
 - Bearing Plates shall be AASHTO M223, Grade 50 Steel.
 - Cost included in "Furnishing and Erecting Structural Steel."
 - All items shown for the tiedown details of the rear wall are included in "Tiedown Device" unless otherwise noted.

**BILL OF MATERIAL
TWO WALLS**

Item	Unit	Total
Elastomeric Bearing Assembly - Type I	Each	18

**BEARING DETAILS
ABUTMENT BACK WALLS**
 CH. B OVER FAP. ROUTE 412
 F.A.P. ROUTE 412, SEC. 57-4HB
 McLEAN COUNTY
 STATION 505+0541

C.H. B Rev. 6-20-88

FOR INFORMATION ONLY

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USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AS-BUILT PLANS
LOCATION #1 S.N. 057-0204**

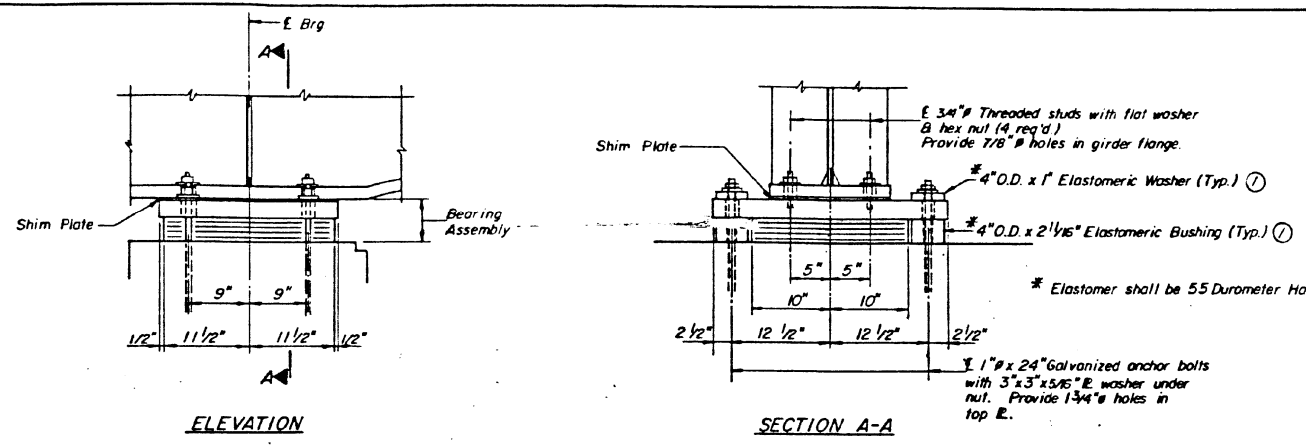
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MCLEAN	69	42

*D5 BRIDGE PAINTING 2021-1 CONTRACT NO. 70D87
 ILLINOIS FED. AID PROJECT

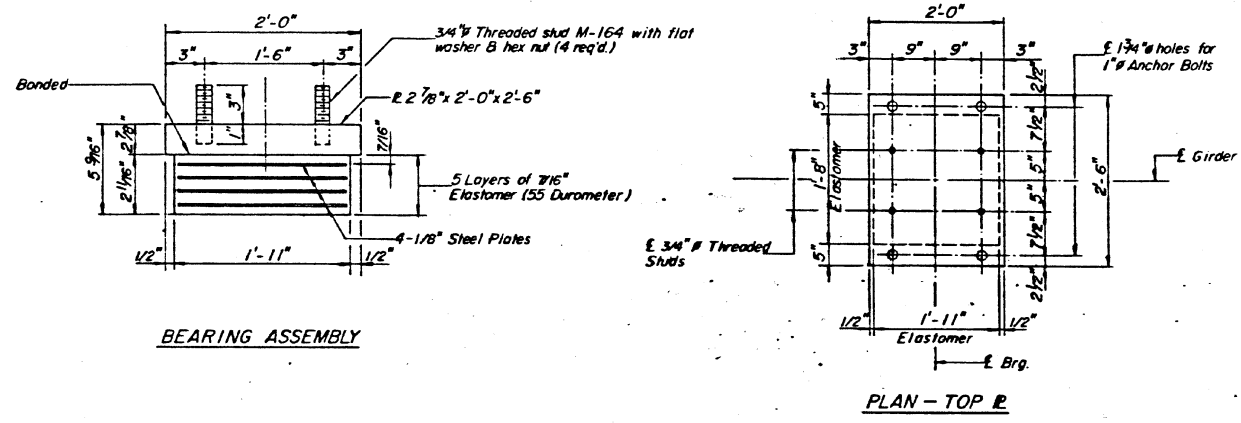
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH. 8 / FAP #12	57-4HB	MCLEAN		35

SHEET NO. 11 OF 16 SHEETS



① Cast Incident to Elastomeric Bearing Assembly - Type I.

**TYPE I ELASTOMERIC EXP. BRG.
AT ABUTMENT FRONT WALL**



NOTES: 1. Bearing Plates shall be AASHTO M-223, Grade 50 Steel.
2. See sheet #12 for Anchor Bolt installation.

**BILL OF MATERIAL
TWO WALLS**

Item	Unit	Total
Elastomeric Bearing Assembly - Type I	Each	18

DESIGNED	V.S.N
CHECKED	K.L.F
DRAWN	DS
CHECKED	K.L.F

**BEARING DETAILS
ABUTMENT FRONT WALL
CH. 8 OVER FAP. ROUTE 412
FAP. ROUTE 412, SEC. 57-4HB
MCLEAN COUNTY
STATION 505+05.41**

C.H. 8 Rev. 6-20-88

FOR INFORMATION ONLY

MODEL: I:\MODEL\MHFE... FILE: MHFE... I:\PROJECTS\05720087\CADD\DATA\CAD\INRES\05720087-FHC-AS-Built.dgn

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	DRAWN -	REVISED -
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PLOT DATE = 7/29/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AS-BUILT PLANS
LOCATION #1 S.N. 057-0204**

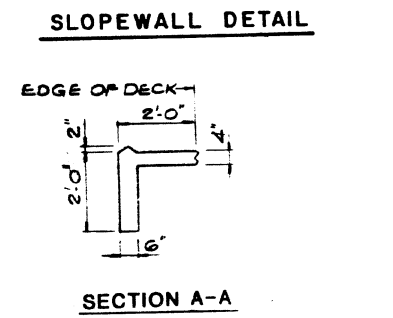
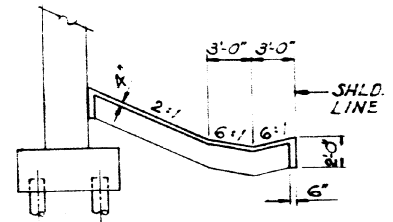
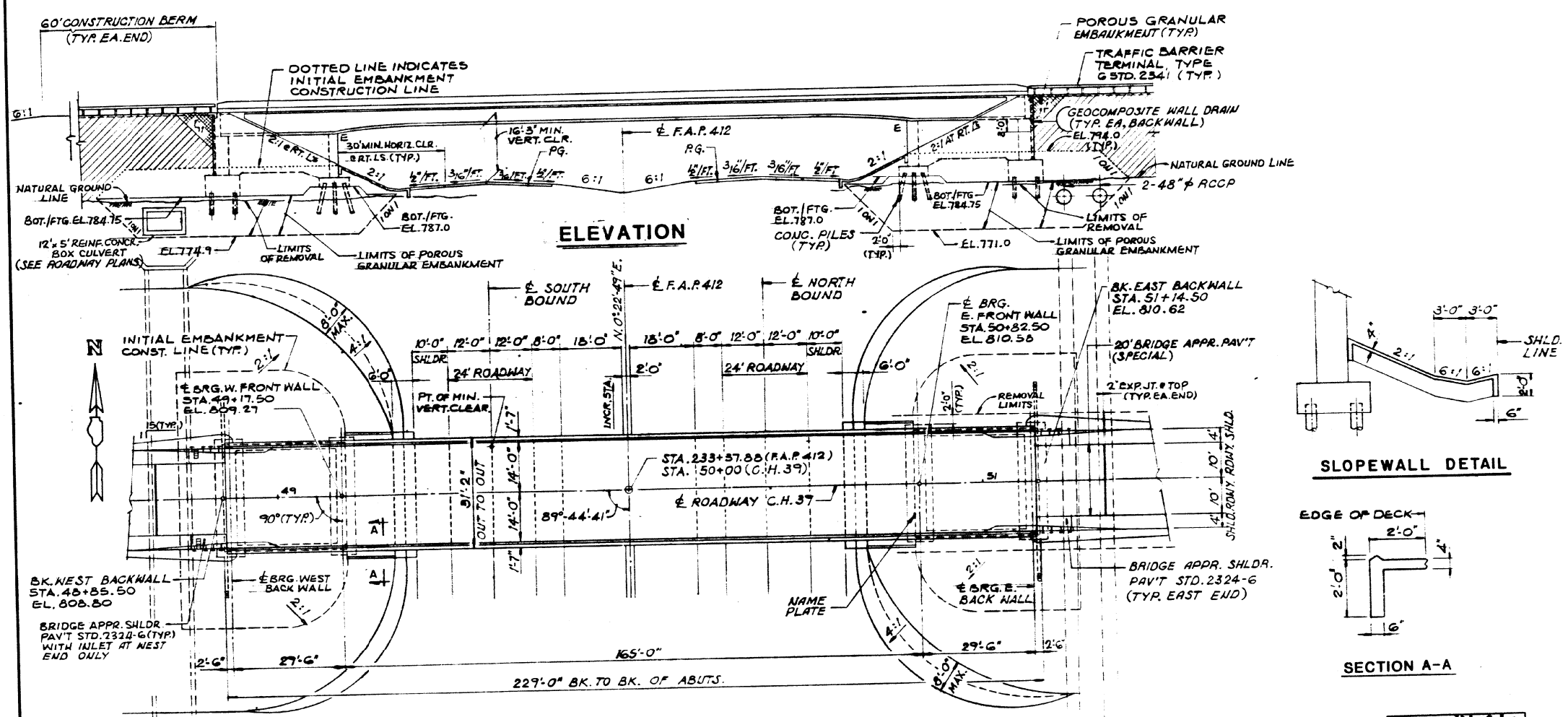
SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	43
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 412	57	MCLEAN	62	28
STA.	TO STA.		PROJECT	
57+24, 57+34, 57+38.8, 57+39.8			SHEET 1 OF 11	

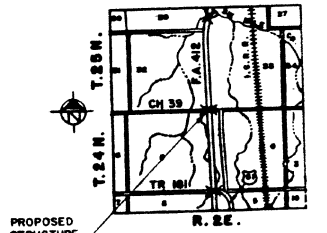
BENCH MARK: "0" CUT ON EAST END OF HEADWALL OF 5'x5' BOX CULVERT ON NORTH SIDE C.H. 39, WEST OF RTE. 51, EL. 783.15
 EXISTING STRUCTURE: NO EXISTING STRUCTURE (DRAINAGE DITCH & CULVERT RELOCATED)

NOTE:
 HATCHED AREA INDICATES EMBANKMENT PLACEMENT AFTER THE CONSTRUCTION OF ABUTMENT. CROSS-HATCHED AREA INDICATES A PORTION OF THE EMBANKMENT TO BE PLACED AFTER CONSTRUCTION OF THE ABUTMENT AND AFTER CONSTRUCTION OF THE SUPERSTRUCTURE.



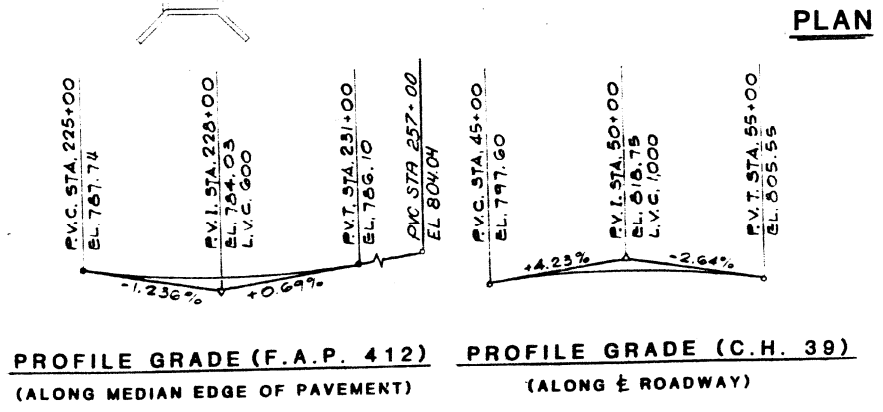
DESIGN SPECIFICATIONS
 AASHTO (1983) AND 1984, 1985 & 1986 INTERIMS WITH EXCEPTIONS OR MODIFICATIONS AS INDICATED. MAX. RANGE OF TEMPERATURE = 120°F (-10°F TO 110°F).
LOADING HS20-44
 ALLOW 25 #/SQ. FOR FUTURE WEARING SURFACE.
DESIGN STRESSES
 F_c = 3,500 PSI
 F_y = 60,000 PSI
 F_y = 50,000 (STRUCTURAL STEEL GR.50 AASHTO M223)
 F_y = 36,000 PSI (M183)

APPROVED FOR STRUCTURAL ADEQUACY ONLY
 John W. Clark
 Registered Structural Engineer



LOCATION PLAN
 3RD P.M.

GENERAL PLAN
 CH. 39 OVER F.A.P. ROUTE 412
 F.A.P. ROUTE 412 - SEC. 57 - 3HB
 MCLEAN COUNTY
 STATION 233+37.88
 STRUCTURE NUMBER 057-021



PROFILE GRADE (F.A.P. 412) (ALONG MEDIAN EDGE OF PAVEMENT)
 PROFILE GRADE (C.H. 39) (ALONG E ROADWAY)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
 LOCATION #2 S.N. 057-0212

SCALE: NONE SHEET 1 OF 6 SHEETS STA. TO STA.

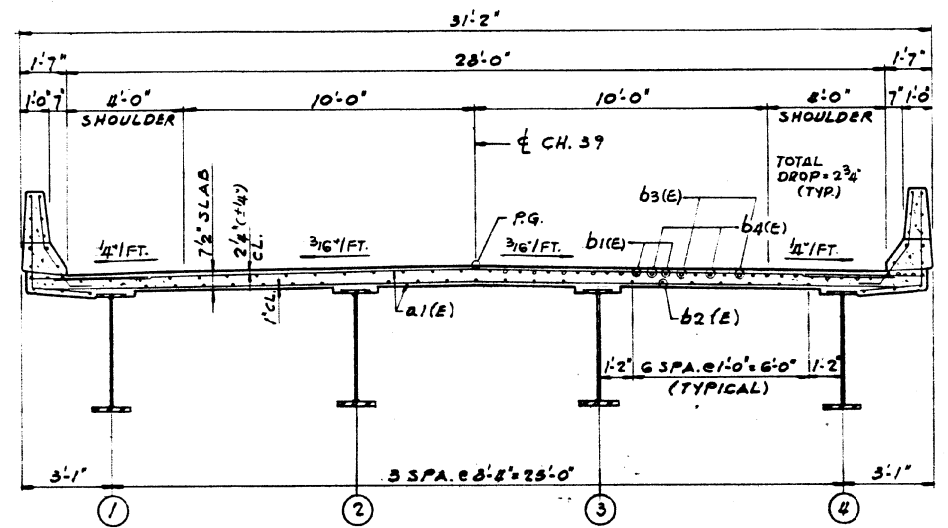
FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MCLEAN	69	44
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

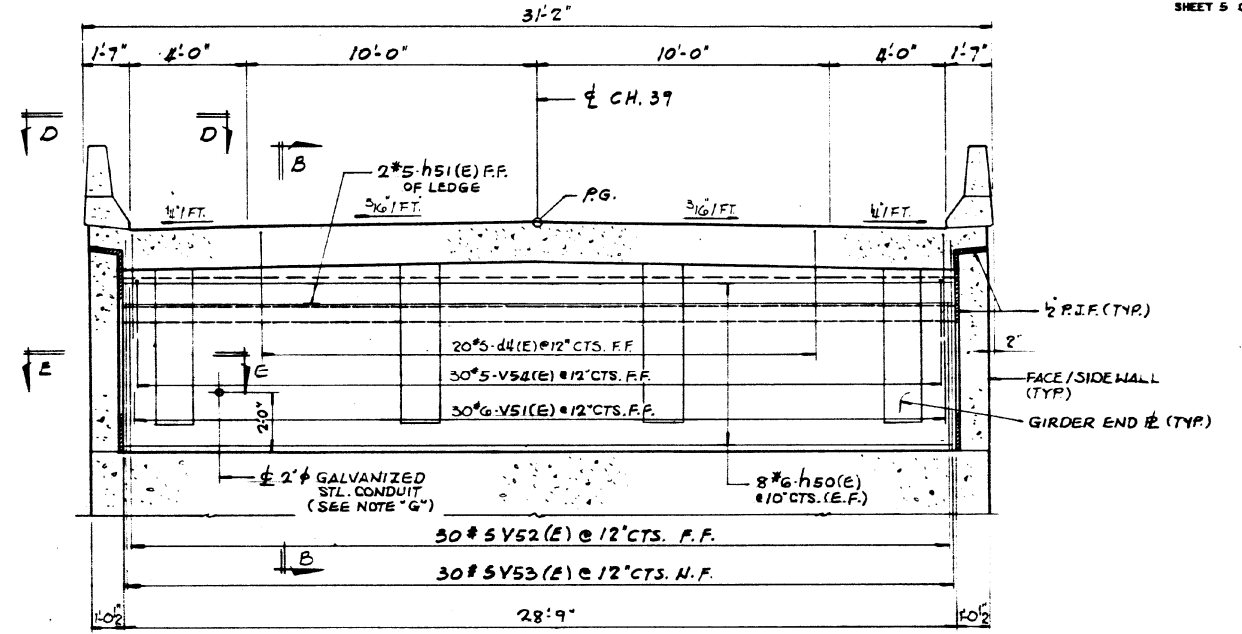
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 PROJECT: 057-0212-001
 DATE: 7/29/2020
 USER: eaglinga

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 412	#2	MCLEAN	62	30
STA.	TO STA.			
F.M.W. A. REG. NO. 4	ILLINOIS	PROJECT		
SHEET 5 OF 19				

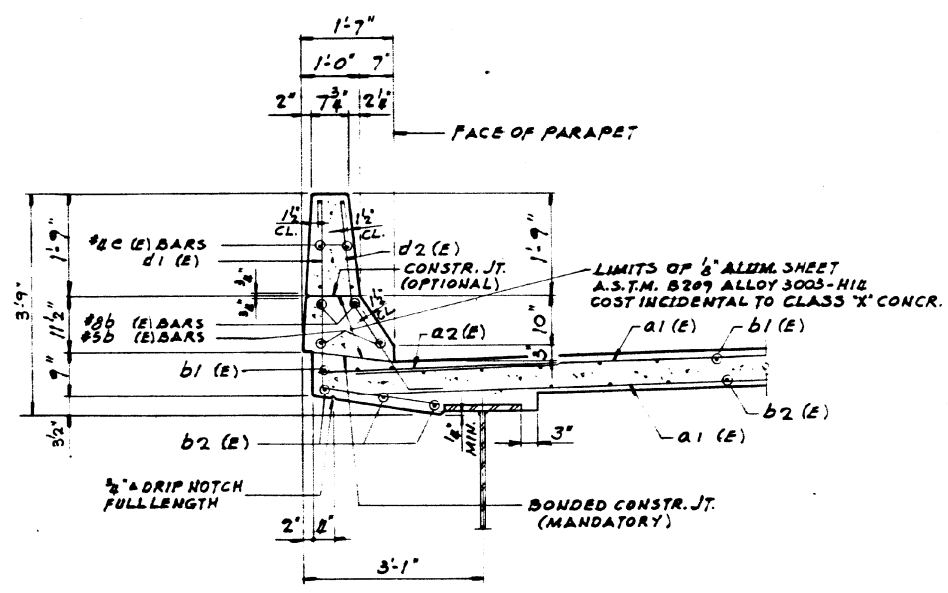
#57-2A, 57-3A, 57-3B-8
#57-3HB



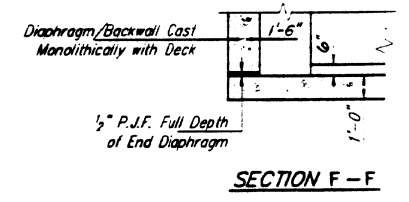
AT MIDSPAN AT FRONT WALL
SECTION A-A
(LOOKING EAST)



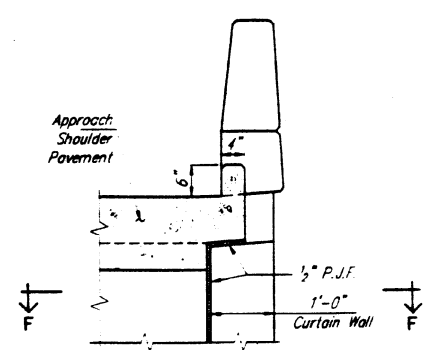
ELEVATION OF WEST ABUT. END DIAPHRAGM (LOOKING WEST)
ELEVATION OF EAST ABUT. END DIAPHRAGM SAME



PARAPET DETAIL



SECTION F-F



END VIEW

NOTE "G"
2" GALVANIZED CONDUIT SHALL BE SCHEDULE 40 PIPE. THREAD & CAP EACH END. COST INCIDENTAL.

NOTE!
FOR SECTIONS B-B & E-E AND VIEW D-D SEE SHT. G.

**DECK CROSS SECTION AND
END DIAPHRAGM DETAILS**
CH. 39 OVER F.A.P. ROUTE 412
F.A.P. ROUTE 412 - SEC. 57-3HB
MCLEAN COUNTY
STATION 233+37.88
STRUCTURE NUMBER 057-0212

ab **alfred benesch & company**
CONSULTING ENGINEERS
200 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 2203

SCALE COPY COPY

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 "/in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**AS-BUILT PLANS
LOCATION #2 S.N. 057-0212**

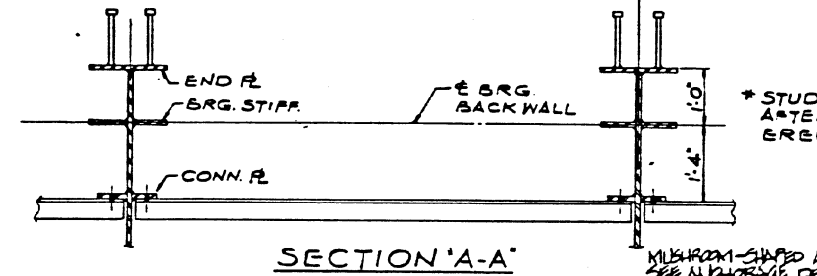
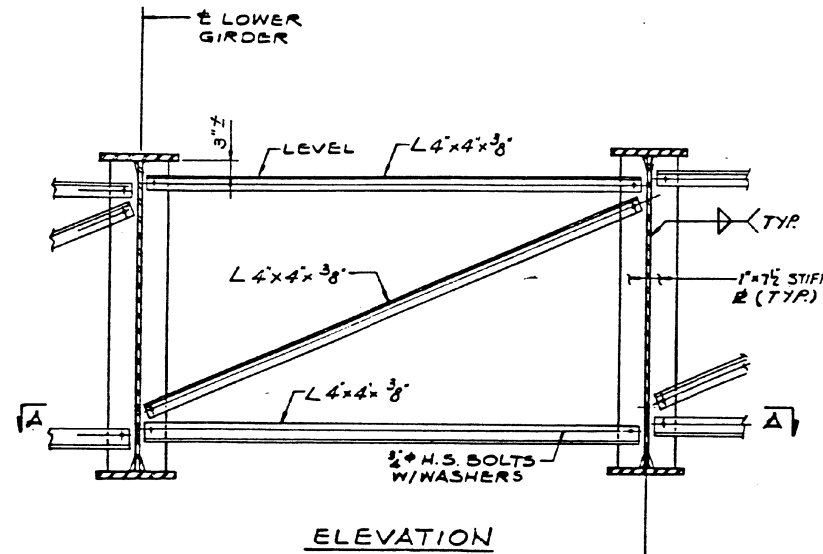
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FOR INFORMATION ONLY

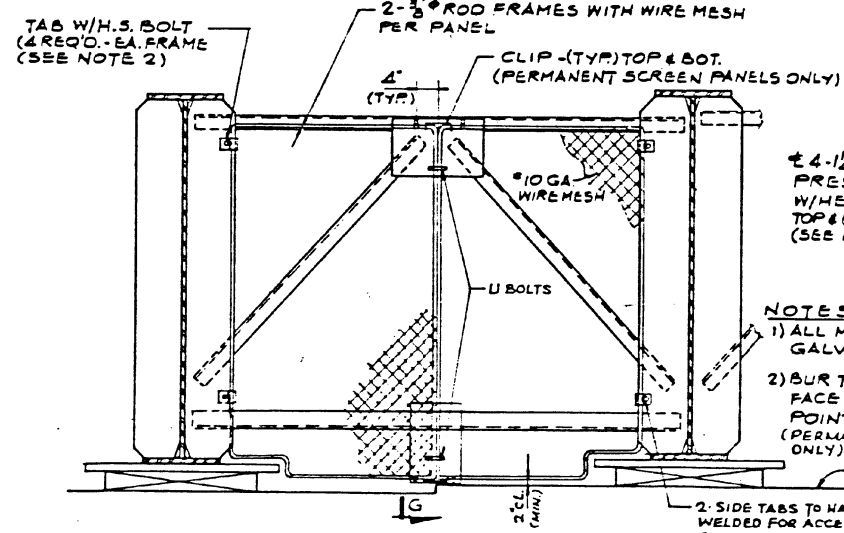
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VAR.	*	MCLEAN	69	45
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

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STA.	TO STA.			
F.W.A. DIST. NO. 4	ILLINOIS	PROJECT		
37-21, 37-24, 37-28, 37-37B	SHEET 1E OF 19			

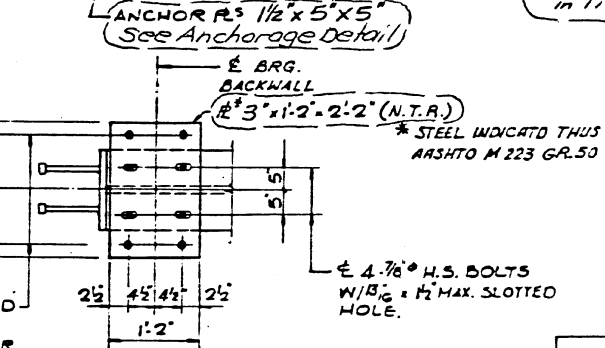
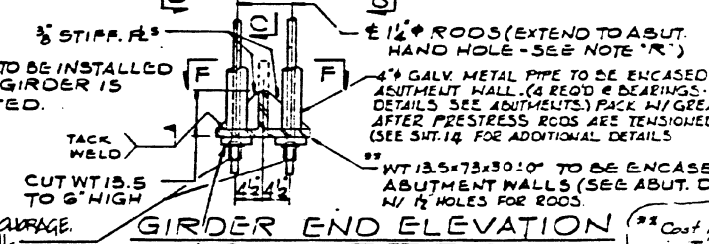
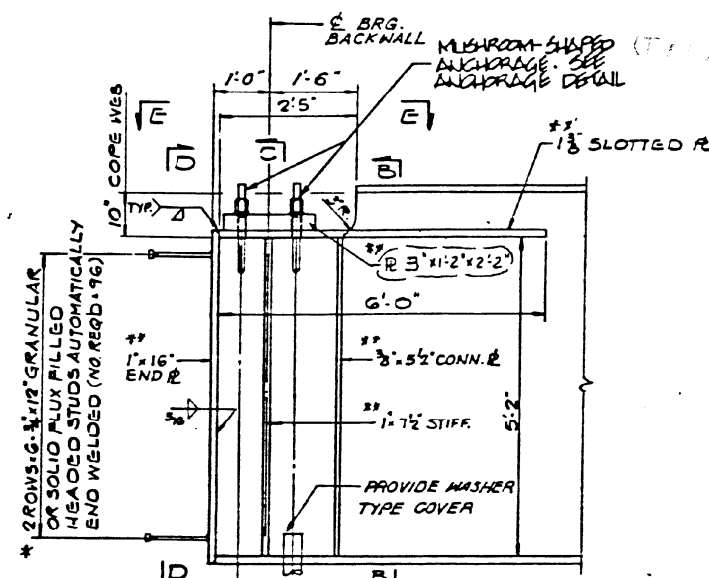


TEMPORARY END CROSS FRAME C/F G
(TO BE REMOVED AFTER CONCRETE END DIAPHRAGM IS PLACED AND SET.)

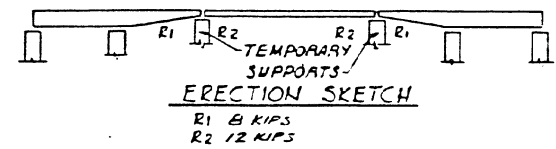
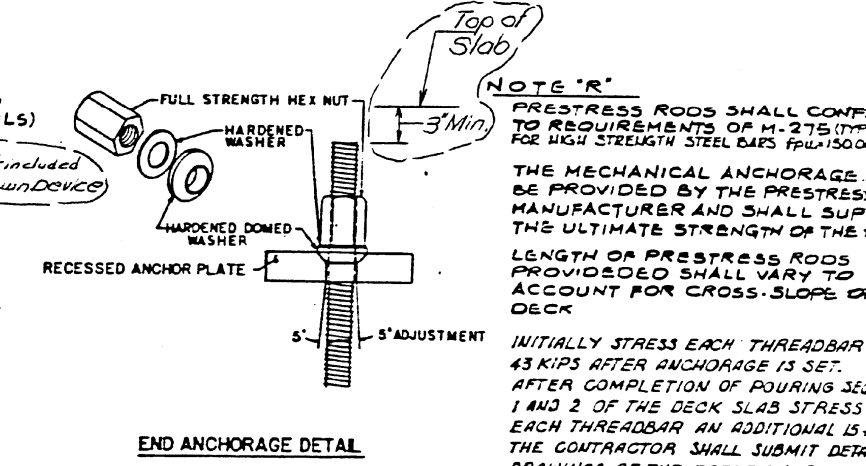
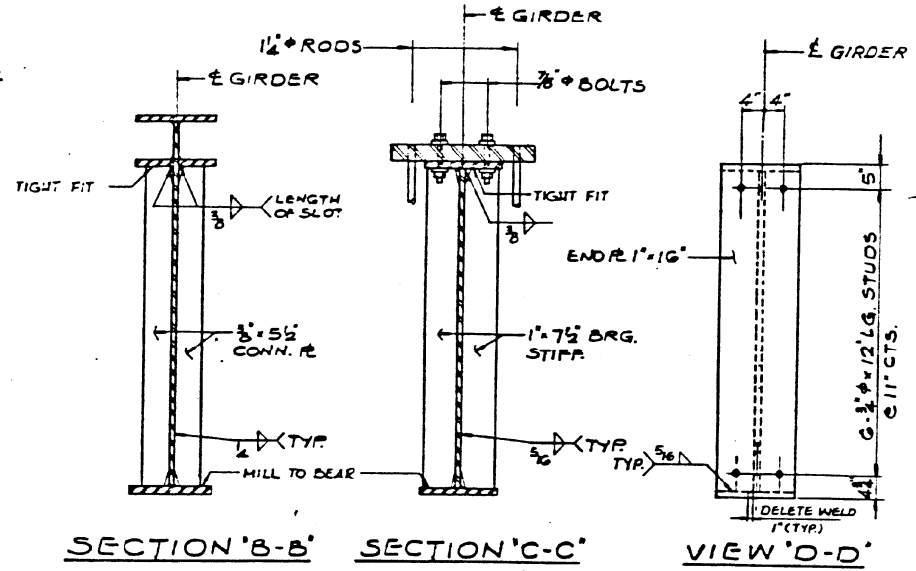


TYPICAL SCREEN PANEL @ C/F 1
(FOR LOCATION SEE FRAMING PLAN SHT. 10)

As Revised 1-5-89 L.W.



- NOTES:**
- 1) ALL MATERIALS TO BE GALVANIZED.
 - 2) BUR THREADS AT FACE OF NUT WITH POINTED TOOL. (PERMANENT PANELS ONLY)



- PLATE GIRDER ERECTION SEQUENCE**
1. ERECT THE GIRDERS IN 3 SEGMENTS, SUPPORTED BY THE PERMANENT BEARINGS AT ABUTMENT FRONT, PER WALLS AND TEMPORARY SUPPORTS AT SPLICES (COST TO BE INCIDENTAL)
 2. ERECT THE GIRDER SPLICES
 3. INSTALL TIEDOWN DEVICES (SEE NOTE 'R')
 4. REMOVE TEMPORARY SUPPORTS
 5. POUR CONCRETE DECK, IN SEQUENCE AS SHOWN ON SHEET 7.

NOTE 'R'

PRESTRESS RODS SHALL CONFORM TO REQUIREMENTS OF M-275 (TYPE II) FOR HIGH STRENGTH STEEL BARS F_yU=150,000 PSI.

THE MECHANICAL ANCHORAGE SHALL BE PROVIDED BY THE PRESTRESS ROD MANUFACTURER AND SHALL SUPPORT THE ULTIMATE STRENGTH OF THE RODS.

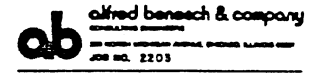
LENGTH OF PRESTRESS RODS PROVIDED SHALL VARY TO ACCOUNT FOR CROSS-SLOPE OF DECK

INITIALLY STRESS EACH THREADBAR TO 43 KIPS AFTER ANCHORAGE IS SET. AFTER COMPLETION OF POURING SEQUENCE 1 AND 2 OF THE DECK SLAB STRESS EACH THREADBAR AN ADDITIONAL 15 KIPS. THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS OF THE ERECTION SCHEME FOR APPROVAL BY THE ENGINEER.

AS REVISED

STEEL DETAILS

C.H.39 OVER F.A.P. ROUTE 412
F.A.P. ROUTE 412-SEC. 57-3HB
MCLEAN COUNTY
STATION 233+37.88
STRUCTURE NUMBER 057-0212



MODEL: 4-MODEL-NAMES FILE: 412-057-3HB-1E.DWG PROJECT: 057-0212 DATE: 7/29/2020

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 "/td> <td>CHECKED -</td> <td>REVISED -</td>	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

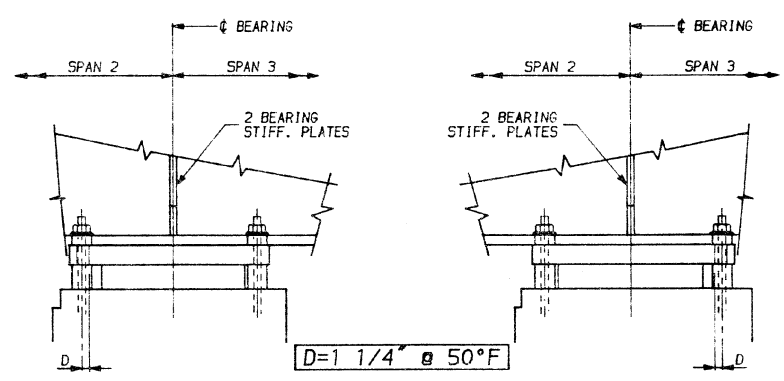
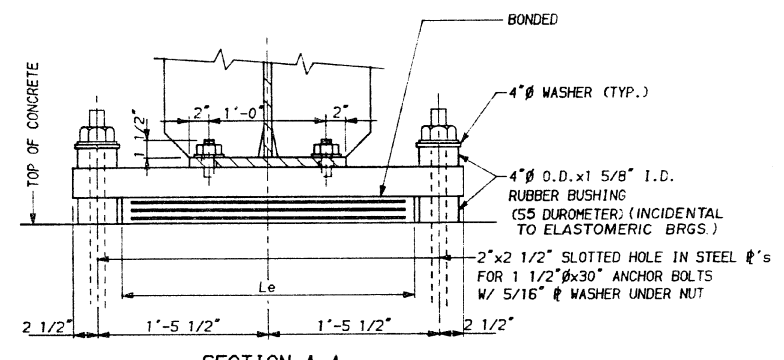
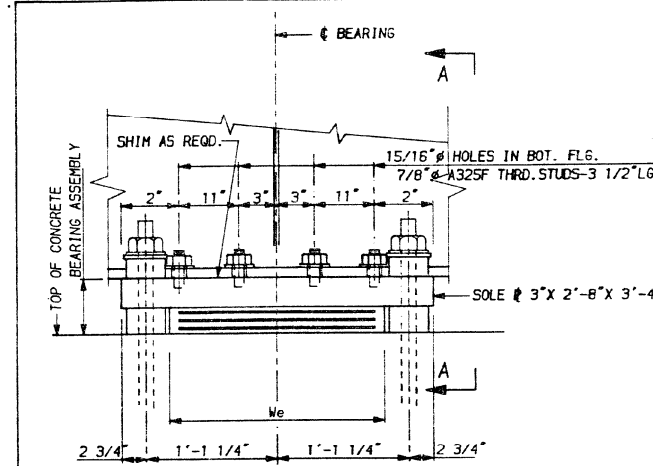
AS-BUILT PLANS
LOCATION #2 S.N. 057-0212

SCALE: NONE SHEET 5 OF 6 SHEETS STA. TO STA.

FOR INFORMATION ONLY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		MCLEAN	69	48
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS FED. AID PROJECT				

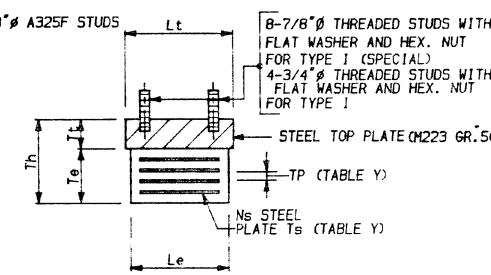
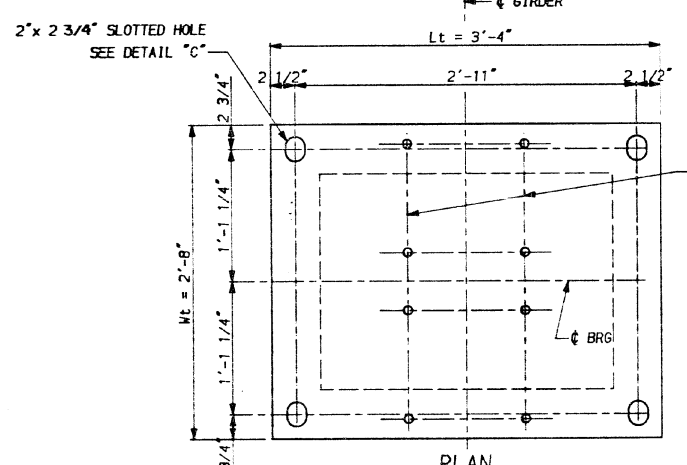
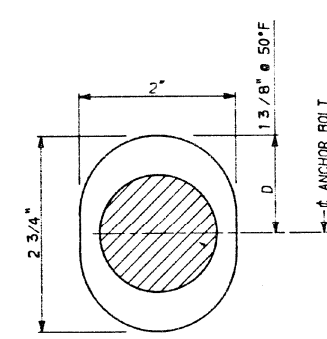
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 412	#	MCLEAN	62	41
F.H.W.A. REG.	ILLINOIS	PROJECT		
* 57-2A, 57-3A, 57-3B-1, 57-3HB				



ELEVATION AT FRONT WALL

SECTION A-A

NOTE:
INCREASE D BY 1/8" PER EACH 100' OF EXPANSION FOR EVERY 15° TEMP. CHANGE FROM THE NORMAL TEMPERATURE OF 50°F



DETAIL "C"

PLAN

EXPANSION BEARING ASSEMBLY DETAIL

ABOVE 50°F
(MOVE BEARING AWAY FROM CENTER OF BRIDGE)

BELOW 50°F
(MOVE BEARING TOWARD CENTER OF BRIDGE)

SETTING EXP. BEARINGS AT FRONT WALLS
EAST FRONT WALL SHOWN
WEST FRONT WALL SIMILAR OPPOSITE HAND

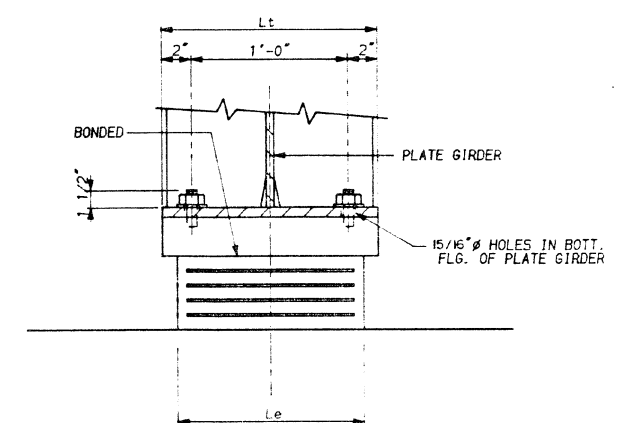
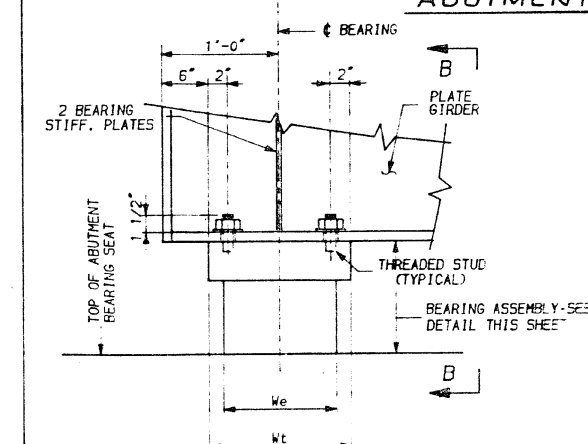
EXPANSION BEARING DETAILS - ELASTOMERIC TYPE I (SPECIAL) ABUTMENT FRONT WALL ONLY

TABLE Y

MARK	BACK WALL TYPE I	FRONT WALL TYPE I (SPECIAL)
Lt	16"	40"
Wt	12"	32"
Tt	1 5/8"	3"
Le	14"	30"
We	11"	22"
Te	3"	2 11/16"
Th	4 5/8"	5 11/16"
Ns	4	3
Ts	3/16"	3/16"
Nc COVER	2	2
Tp COVER	3/8"	7/16"
Nc INTERMEDIATE	3	2
Tp INTERMEDIATE	1/2"	5/8"

BILL OF MATERIAL

ITEM	UNIT	TOTAL
ELASTOMERIC BEARING ASSEMBLY TYPE I	EACH	6
ELASTOMERIC BEARING ASSEMBLY TYPE I (SPECIAL)	EACH	6



ELEVATION AT BACK WALL (ABUTMENTS A & C)

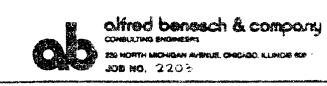
SECTION B-B

NOTES:
SEE SHEET 15 FOR ANCHOR BOLT INSTALLATION AT ABUTMENTS.
SHIM PLATES SHALL NOT BE PLACED UNDER ELASTOMERIC BEARING ASSEMBLY.
FOR Lt, Wt, Tt, Le, We, Te, Th, Ns, Ts, Nc AND Tp VALUES SEE TABLE Y THIS SHEET.

EXPANSION BEARING DETAILS - ELASTOMERIC TYPE I ABUTMENT BACK WALL ONLY

BEARING DETAILS

CH39 OVER F.A.P. 412
F.A.P. ROUTE 412-SEC. 57-3HB
MCLEAN COUNTY
STATION 233+37.88



MODEL: 410021.MXD FILE: 410021.dwg PROJECT: 0570210101.DWG DATE: 7/29/2020

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #2 S.N. 057-0212

SCALE: NONE SHEET 6 OF 6 SHEETS STA. TO STA.

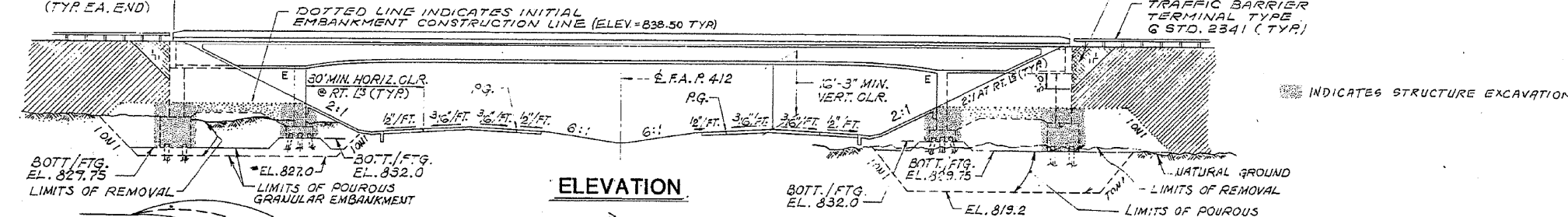
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	49
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

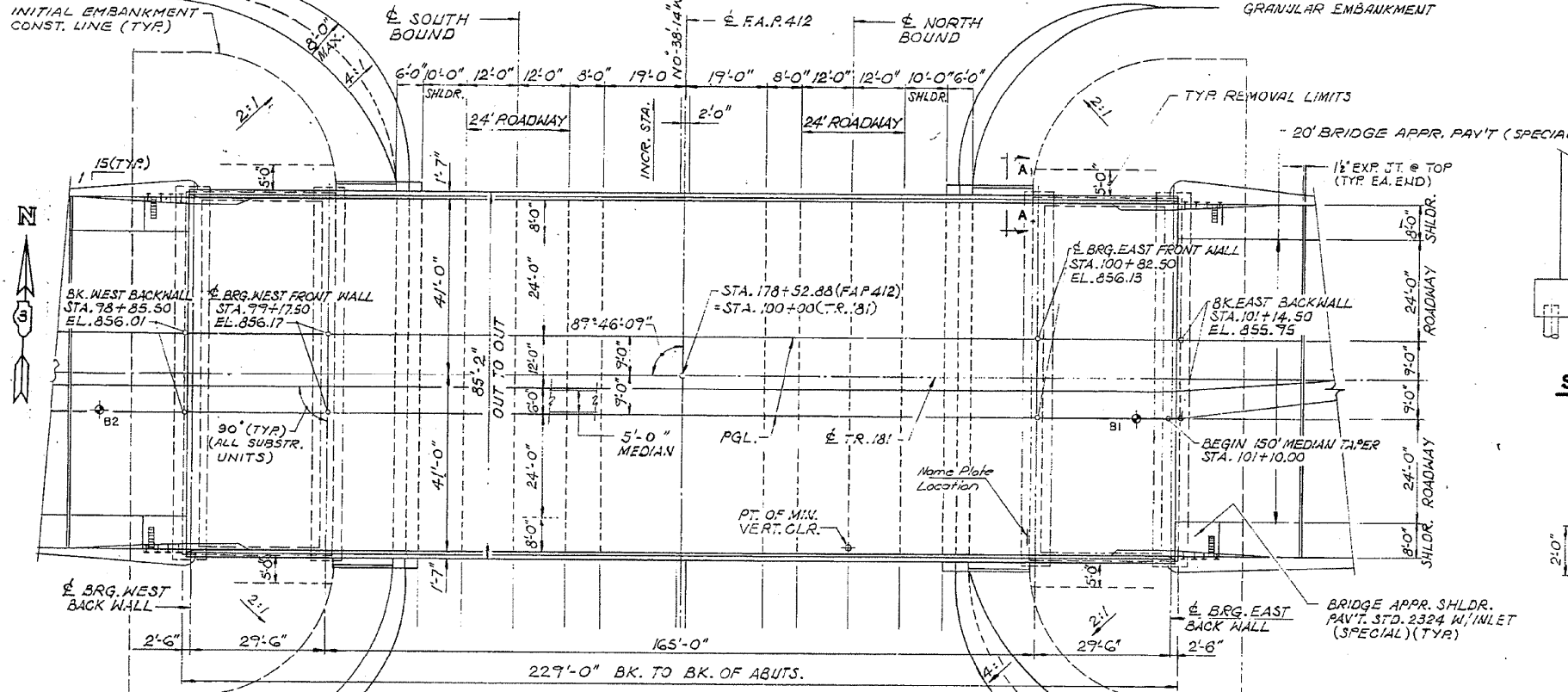
BENCH. MARK: "D" OUT ON EAST WINGWALL OF 12"x4" BOX CULV.
± 0.10 MILES EAST OF RTE. 51 ON SOUTH SIDE OF TR. 181
EL. 818.73

EXISTING STRUCTURE: NONE

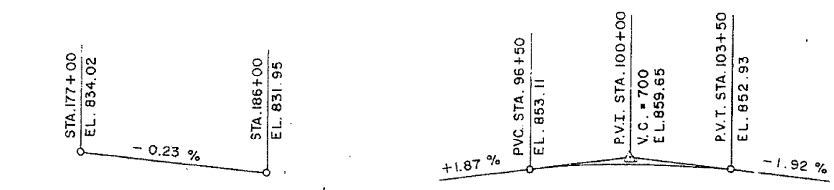
60' CONSTRUCTION BERM
(TYP. EA. END)



ELEVATION



PLAN



PROFILE GRADE F.A.P. 412 ALONG MEDIAN EDGE / P.V.M.T.

PROFILE GRADE T.R. 181 ALONG MEDIAN EDGE / P.V.M.T.

STATION 178+52.88
BUILT 198 BY
STATE OF ILLINOIS
F.A.P. RT. 412 SEC. 57-2HB-1
F.A. PROJ.
LOADING HS20
STR. No. 057-0213

1 REQ'D.
(SEE STATE OF ILLINOIS STD. 2113)
LETTERING FOR NAME PLATE

DESIGN SPECIFICATIONS

AASHTO (1983) AND 1984#1/2 INTERIMS WITH EXCEPTIONS OR MODIFICATIONS AS INDICATED. MAX. RANGE OF TEMPERATURE = 120° F. (-10° F. TO 110° F.)

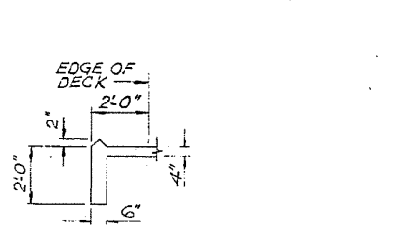
LOADING HS20-44

ALLOW 25 #/SQ. FOR FUTURE WEARING SURFACE.

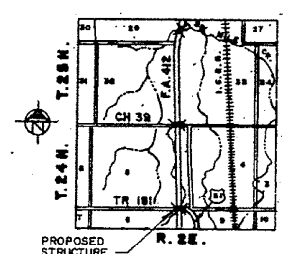
DESIGN STRESSES

F_c = 3,500 PSI
F_y = 60,000 PSI
F_y = 50,000 (STRUCTURAL STEEL, AASHTO M223)
F_y = 36,000 PSI. M183

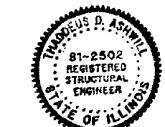
SLOPEWALL DETAIL



SECTION A-A



LOCATION PLAN



APPROVED FOR STRUCTURAL ADEQUACY ONLY

John W. Clark
Registered Structural Engineer

alfred benesch & company
CONSULTING ENGINEERS
333 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60610
JOB NO. 2203

GENERAL PLAN
TR. 181 OVER F.A.P. ROUTE 412
F.A.P. ROUTE 412 - SEC. 57-2HB-1
MCLEAN COUNTY
STATION 178+52.88
STRUCTURE NUMBER 057-0213

FOR INFORMATION ONLY

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

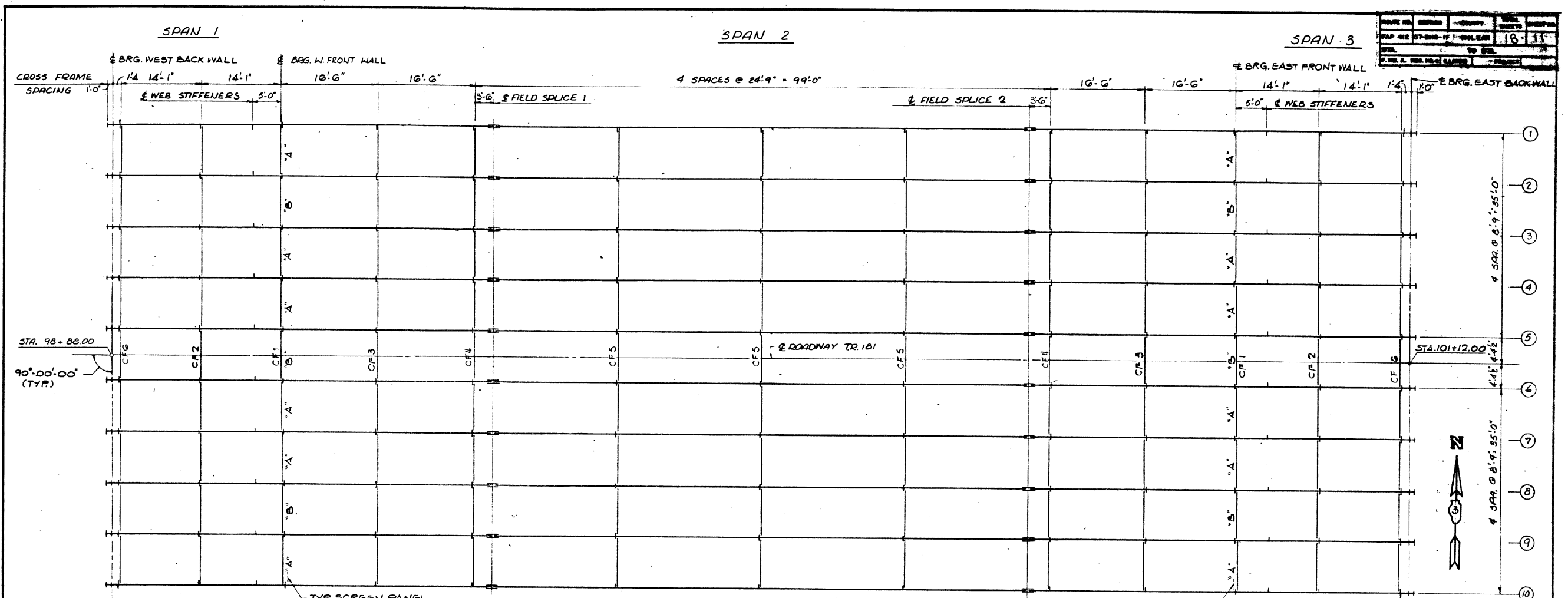
AS-BUILT PLANS
LOCATION #3 S.N. 057-0213

SCALE: NONE SHEET 1 OF 6 SHEETS STA. TO STA.

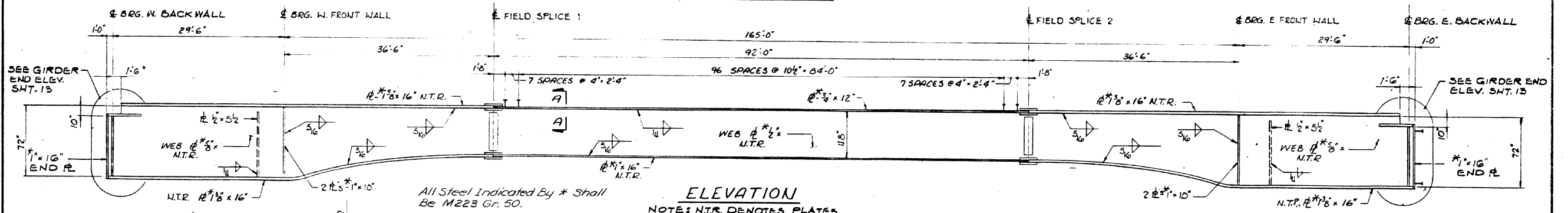
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		MCLEAN	69	50
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

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PROJECT: 057-0213-01
DATE: 7/29/2020

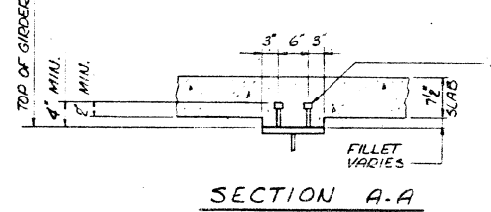
DATE	18.11
SCALE	
PROJECT	
NO.	



FRAMING PLAN



ELEVATION



SECTION A-A

NOTE: N.T.R. DENOTES PLATES TO WHICH NOTCH TOUGHNESS REQUIREMENTS ARE APPLICABLE.

NOTE: 3/8" GRANULAR OR SOLID FLUX FILLED HEADED STUDS AUTOMATICALLY END WELDED TO FLANGE. (NO. REQ. = 2220)

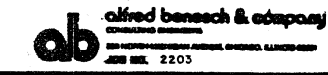
NOTE: THE SHEAR STUDS ARE SHOWN FOR INFORMATION ONLY AND ARE NOT INCLUDED IN THIS CONTRACT.

NOTE: FOR HAUNCH DETAILS SEE SHEET 12.

NOTE *P*
 A DENOTES PERMANENT SCREEN PANEL.
 B DENOTES ACCESSIBLE SCREEN PANEL.
 SCREEN PANELS TO BE LOCATED AT FRONT FACE OF CFI ONLY.

FRAMING PLAN AND GIRDER ELEVATION

TR. 181 OVER F.A.P. ROUTE 412
 F.A.P. ROUTE 412-SEC. 57-2HB-1F
 MCLEAN COUNTY
 STATION 178+52.88
 STRUCTURE NUMBER 057-0213



MODEL: \\MODEL\NAME: FILE: \\NAME: PROJECT: \\PROJECT\DOCUMENTS\DWG: OFFICE: \\OFFICE\PROJECTS\570213\AS-BUILT\AS-BUILT.dwg

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000" / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

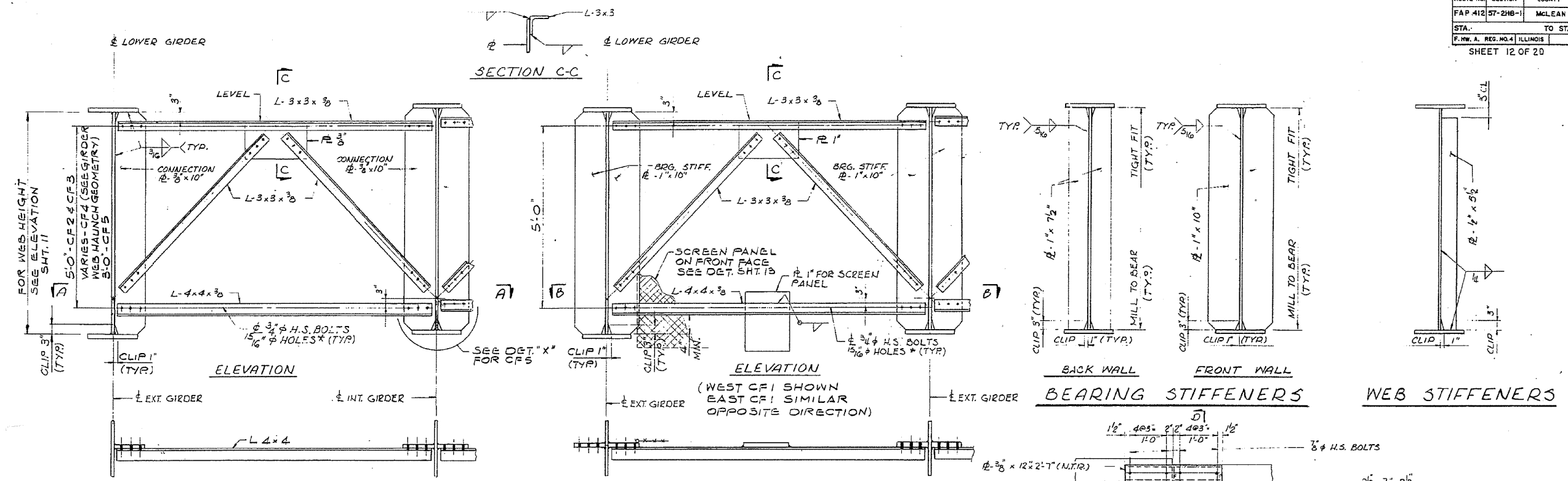
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS			
LOCATION #3 S.N. 057-0213			
SCALE: NONE	SHEET 3	OF 6 SHEETS	STA. TO STA.

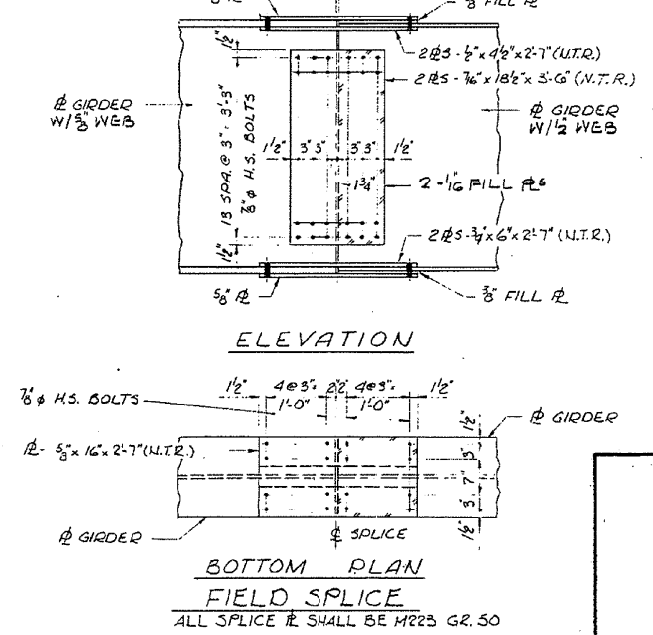
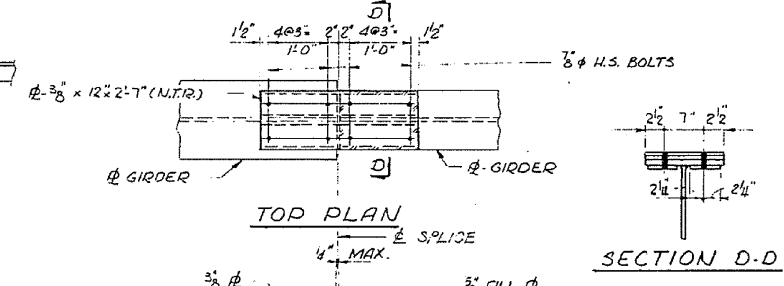
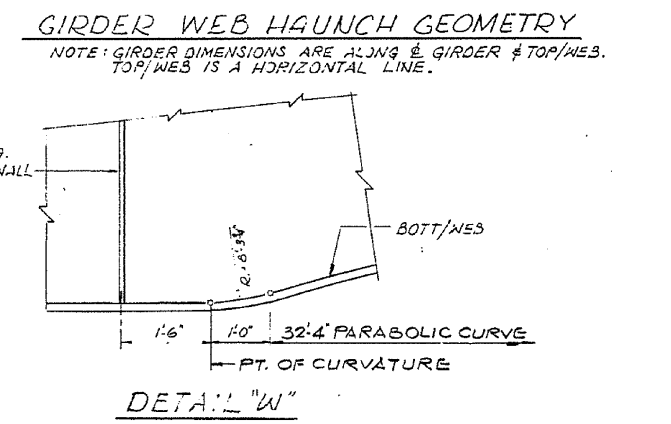
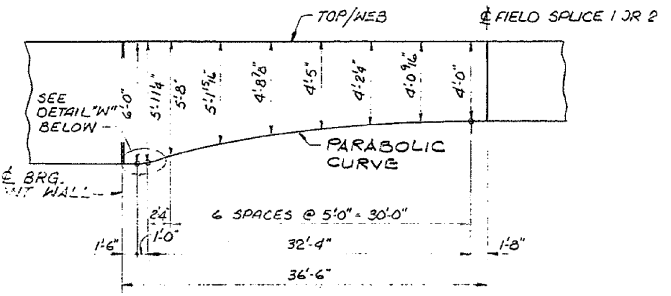
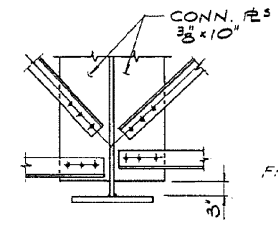
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		MCLEAN	69	52
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 412	57-2HB-1	MCLEAN	69	29A
STA.	TO STA.		PROJECT	
F.W. A. REG. NO. 4	ILLINOIS	SHEET 12 OF 20		



NOTES:
 * TWO HARDENED WASHERS SHALL BE REQUIRED OVER ALL 3/8" HOLES IN CROSS-FRAME CONNECTIONS.
 ALL CROSS FRAMES & CONNECTION #2S SHALL BE M183.



STEEL DETAILS
 TR. 181 OVER F.A.P. ROUTE 412
 F.A.P. ROUTE 412-SEC. 57-2HB-1
 MCLEAN COUNTY
 STATION 178+52.88
 STRUCTURE NUMBER 057-0213

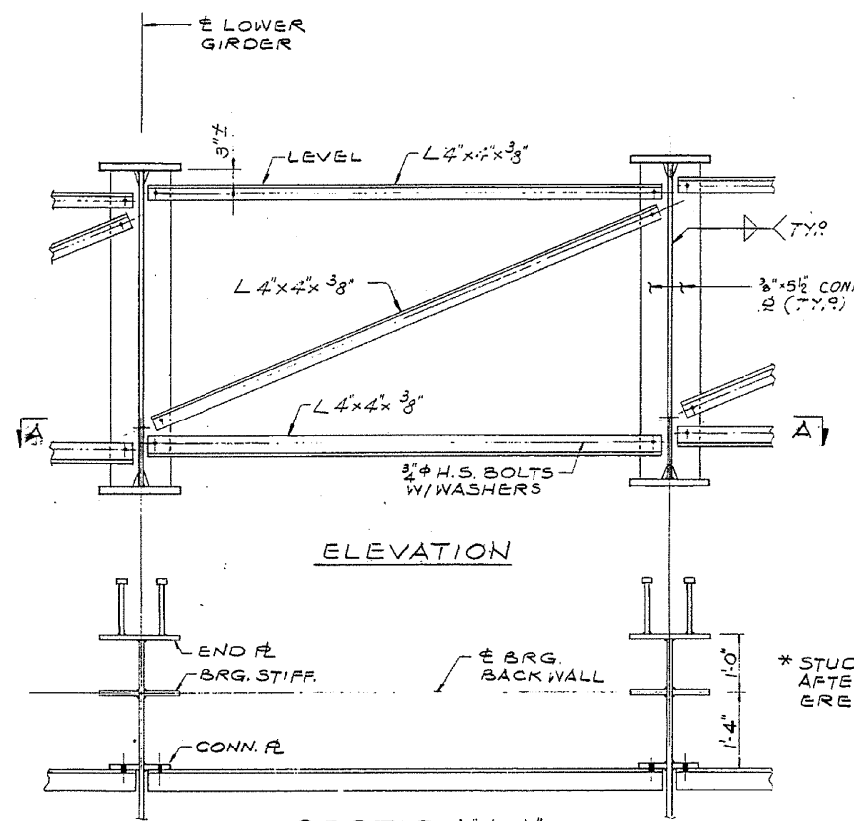
alfred benesch & company
 CONSULTING ENGINEERS
 333 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60610
 JOB NO. 2203

FOR INFORMATION ONLY

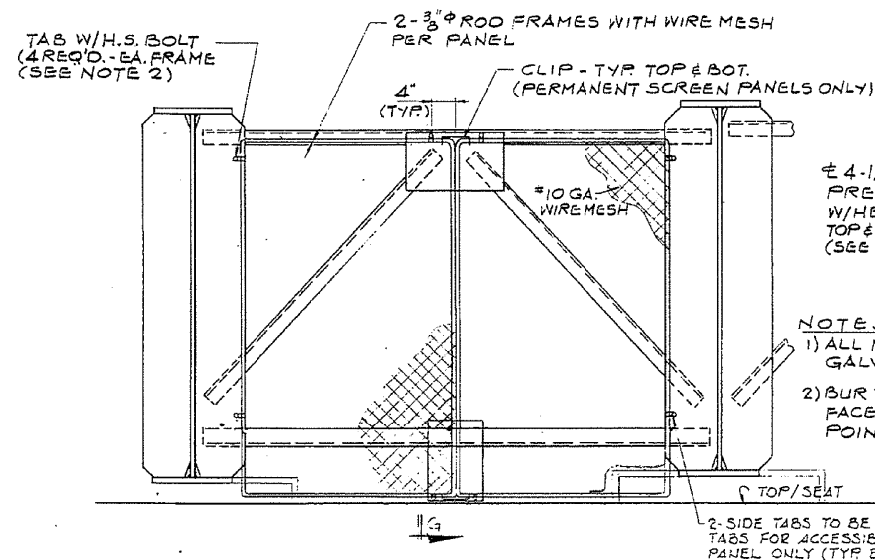
USER NAME = eaglinga	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	AS-BUILT PLANS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
PLOT SCALE = 40.0000 "/in.	DRAWN -	REVISED -		LOCATION #3 S.N. 057-0213	SCALE: NONE	SHEET 4	OF 6	SHEETS	STA.	TO STA.	VAR.		MCLEAN	69	53
PLOT DATE = 7/29/2020	CHECKED -	REVISED -											*D5 BRIDGE PAINTING 2021-1	CONTRACT NO. 70D87	
	DATE -	REVISED -											ILLINOIS	FED. AID PROJECT	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 412	57-2HB-1	MCLEAN	30A	
STA.	TO STA.			
P.M.V.A. REG. NO. 4	ILLINOIS	PROJECT		

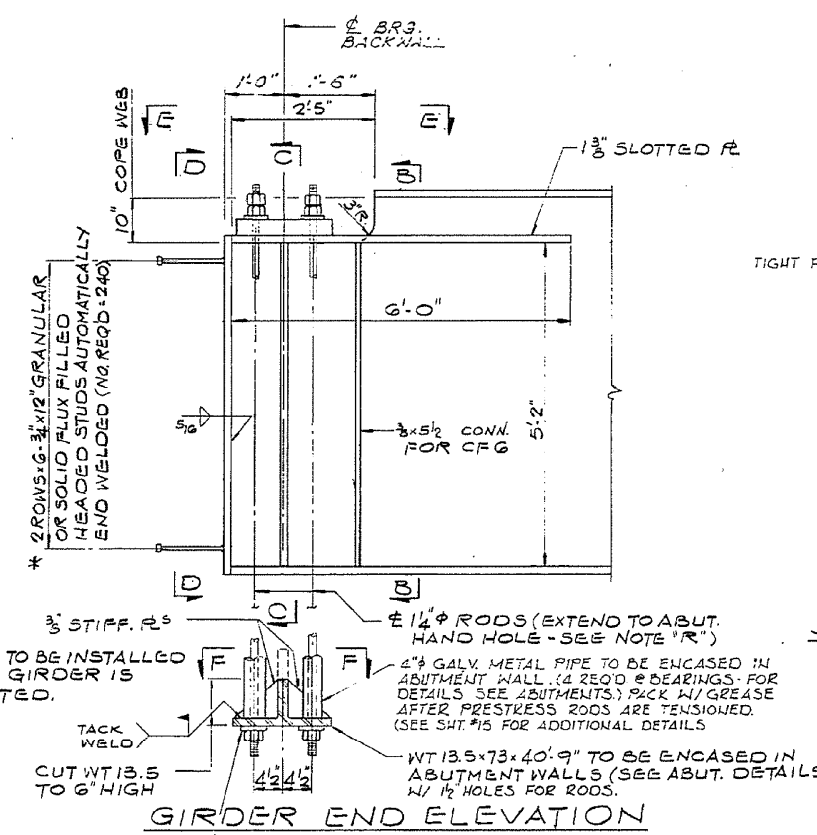
SHEET 13 OF 20



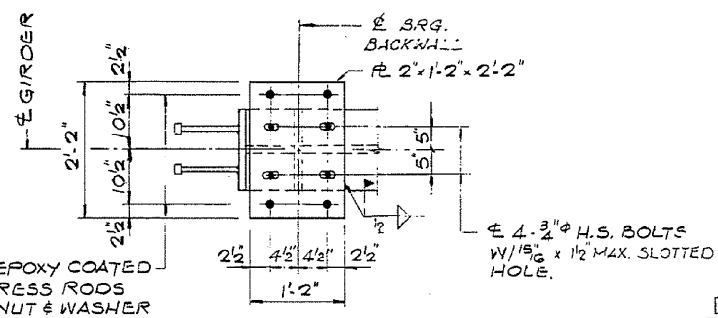
TEMPORARY END CROSS FRAME CF G
(TO BE REMOVED AFTER CONCRETE END DIAPHRAGM IS PLACED AND SET.)



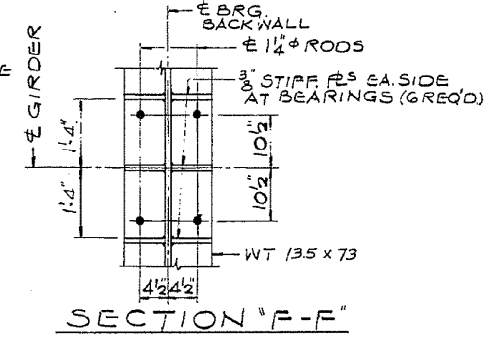
TYPICAL SCREEN PANEL @ CF1
(FOR LOCATION SEE FRAMING PLAN SHT. 11)



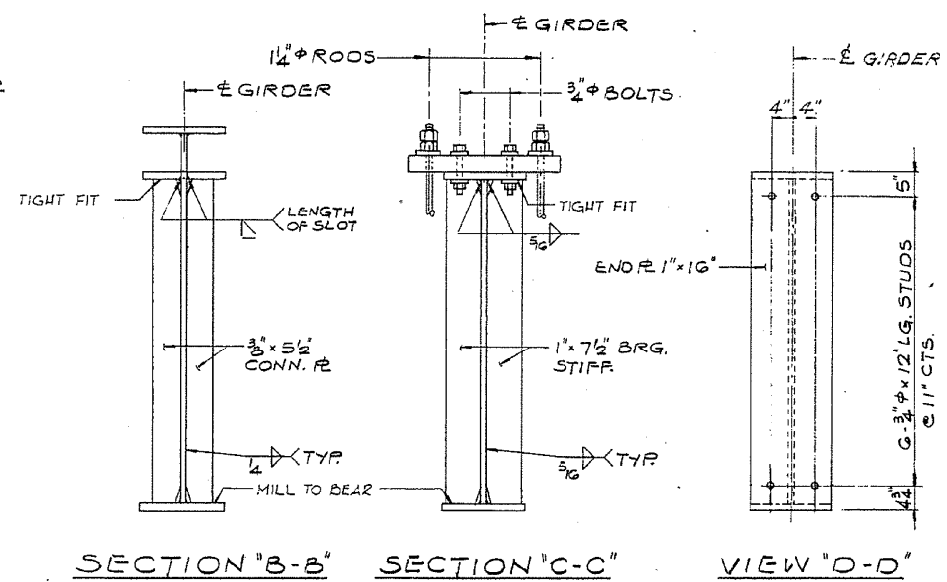
GIRDER END ELEVATION



PLAN VIEW "E-E"

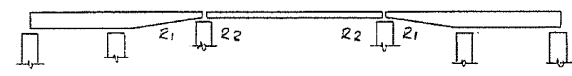


SECTION "F-F"



SECTION "B-B" SECTION "C-C" VIEW "D-D"

NOTE "R"
PRESTRESS RODS SHALL CONFORM TO REQUIREMENTS OF M-275 (TYPE II) FOR HIGH STRENGTH STEEL BARS. $f_{pu} = 150,000$ PSI.
THE MECHANICAL ANCHORAGE SHALL BE PROVIDED BY THE PRESTRESS ROD MANUFACTURER AND SHALL SUPPORT THE ULTIMATE STRENGTH OF THE RODS.
LENGTH OF PRESTRESS RODS PROVIDED SHALL VARY TO ACCOUNT FOR CROSS-SLOPE OF DECK.
INITIALLY STRESS EACH ROD TO 44 KIPS AFTER ANCHORAGE IS SET. AFTER COMPLETION OF DECK POURING SEQUENCE 1/2 STRESS EACH ROD AN ADDITIONAL 14 KIPS.



ERECTION SKETCH

PLATE GIRDER ERECTION SEQUENCE*

1. ERECT THE GIRDERS IN 3 SEGMENTS, SUPPORTED BY THE PERMANENT BEARINGS AT ABUTMENT FRONT & REAR WALLS AND TEMPORARY SUPPORTS AT SPLICES (COST TO BE INCIDENTAL)
2. ERECT THE GIRDER SPLICES
3. INSTALL TIE DOWN DEVICES
4. REMOVE TEMPORARY SUPPORTS
5. POUR CONCRETE DECK, IN SEQUENCE AS SHOWN ON SHEET "G."

* THE CONTRACTOR MAY PROPOSE AN ALTERNATE PLAN FOR PLATE GIRDER ERECTION. THE PLAN WILL BE SUBJECT TO REVIEW BY THE DISTRICT OFFICE PRIOR TO ERECTION.

STEEL DETAILS

TR. 181 OVER F.A.P. ROUTE 412
F.A.P. ROUTE 412-SEC. 57-2HB-1
MCLEAN COUNTY
STATION 178+52.88
STRUCTURE NUMBER 057-0213

alfred benesch & company
CONSULTING ENGINEERS
233 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60601
JOB NO. 2203

MODEL: 4 MODEL NAME: FILE NAME: PROJECT: C:\Users\jdoyle\Documents\DOT Office\Drawings\Projects\057-2HB-1\057-2HB-1.dwg

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 "/in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

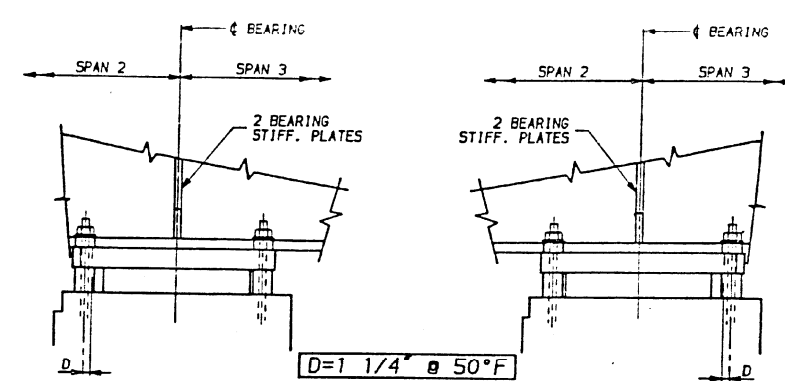
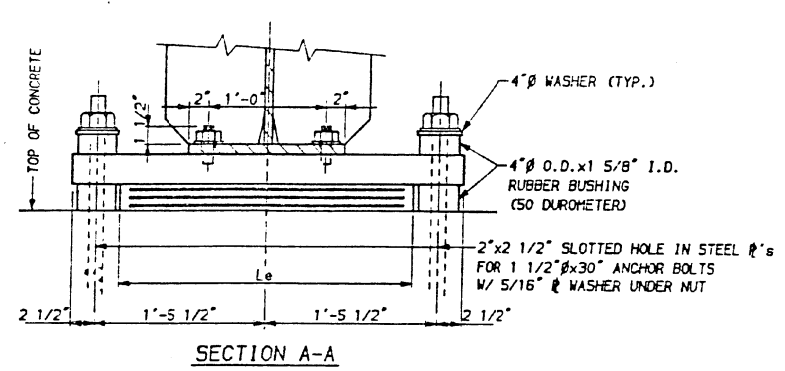
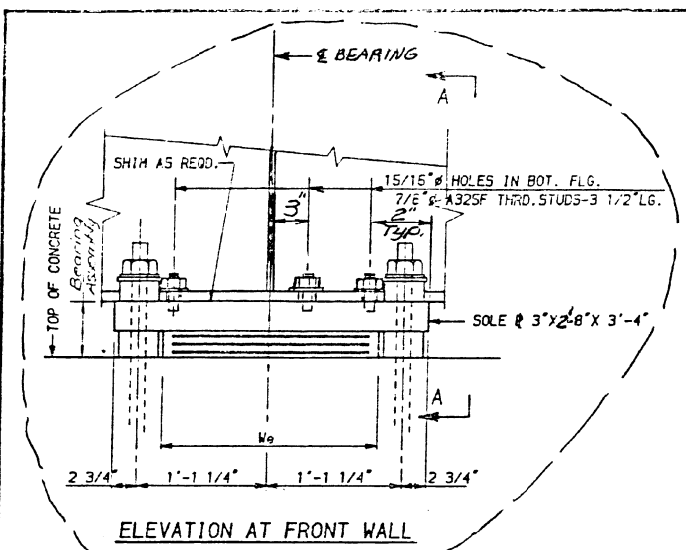
AS-BUILT PLANS
LOCATION #3 S.N. 057-0213

SCALE: NONE SHEET 5 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		MCLEAN	69	54
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

DATE	SECTION	QUANTITY	TOTAL SHEETS	PROJECT NO.
F.A.P. #181-2HB-IF	MCLEAN	18	154	
STA.	TO STA.			
P. No. A. RES. NO.	ELLINGER			PROJECT

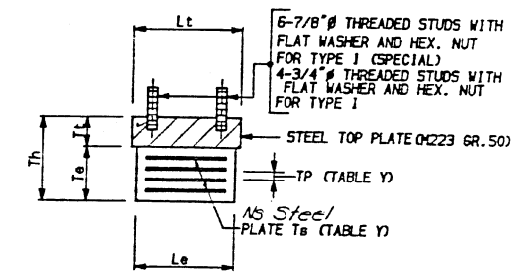
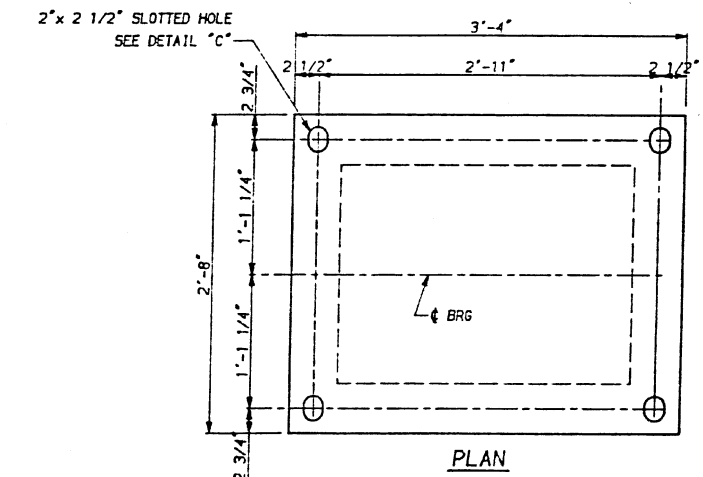
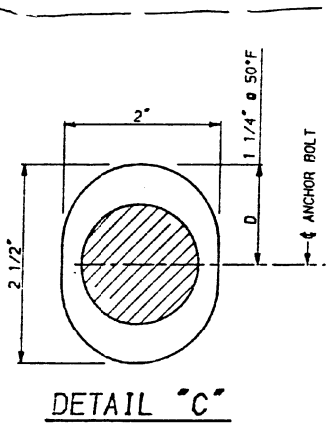


NOTE:
 INCREASE D BY 1/8" PER EACH 100' OF EXPANSION FOR EVERY 15° TEMP. CHANGE FROM THE NORMAL TEMPERATURE OF 50°F

ABOVE 50°F
 (MOVE BEARING AWAY FROM CENTER OF BRIDGE)

BELOW 50°F
 (MOVE BEARING TOWARD CENTER OF BRIDGE)

SETTING EXP. BEARINGS AT FRONT WALLS
 EAST FRONT WALL SHOWN
 WEST FRONT WALL SIMILAR OPPOSITE HAND



EXPANSION BEARING DETAILS - ELASTOMERIC TYPE I (SPECIAL)
 (Abut. Front Wall Only)

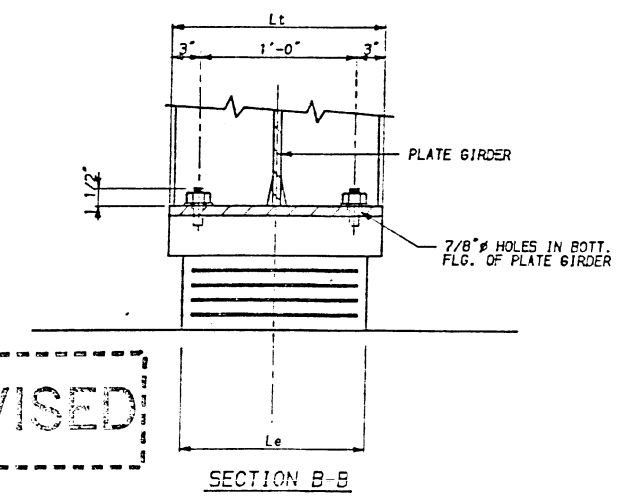
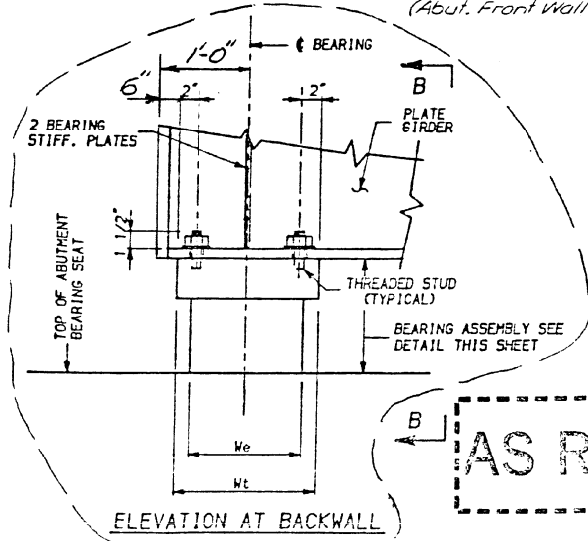
EXPANSION BEARING ASSEMBLY DETAIL

TABLE Y

MARK	LOCATION	
	TYPE I	TYPE I (SPECIAL)
Lt	16"	40"
Wt	12"	32"
Tt	1 5/8"	3"
Le	14"	30"
We	11"	22"
Te	3"	2 11/16"
Th	4 5/8"	5 11/16"
Ns	4	3
Ts	3/16"	3/16"
Nc	2	2
Tp	3/8"	7/16"
Ne	3	2
Ip	1/2"	5/8"
Intermediate		

BILL OF MATERIAL

ITEM	UNIT	TOTAL
ELASTOMERIC BEARING ASSEMBLY TYPE I	EACH	20
ELASTOMERIC BEARING ASSEMBLY TYPE I (SPECIAL)	EACH	20



AS REVISED

EXPANSION BEARING DETAILS - ELASTOMERIC TYPE I (Abut. Back Wall Only)

NOTES:
 SEE SHEET 6 FOR ANCHOR BOLT INSTALLATION AT ABUTMENTS.
 SHIM PLATES SHALL NOT BE PLACED UNDER ELASTOMERIC BEARING ASSEMBLY.
 FOR Lt, Wt, Tt, Le, We, Te, Th, Ns, Ts, Ne AND Tp VALUES SEE TABLE Y THIS SHEET.

alfred benesch & company
 CONSULTING ENGINEERS
 200 NORTH MICHIGAN AVENUE CHICAGO ILLINOIS 60601
 TEL. NO. 220-5

BEARING DETAILS
 TR. 181 OVER F.A.P. ROUTE 412
 F.A.P. ROUTE 412-SEC. 57-2HB-IF
 MCLEAN COUNTY
 STATION 178+52.88
 STRUCTURE NUMBER 057-0213

As Revised 4-14-88 L.W.

MODEL: 4100213.MXD
 FILE: 4100213.dwg
 PROJECT: 057-0213
 DATE: 7/29/2020
 USER: eaglinga

USER NAME = eaglinga	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #3 S.N. 057-0213

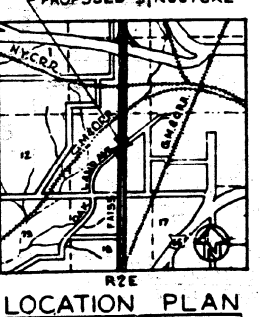
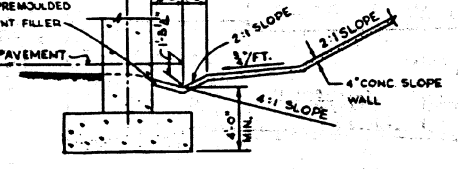
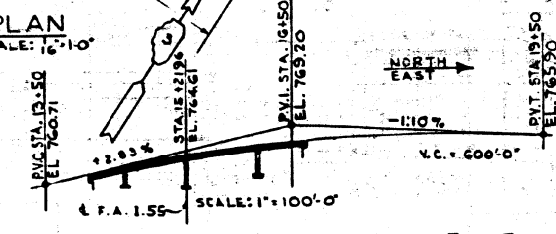
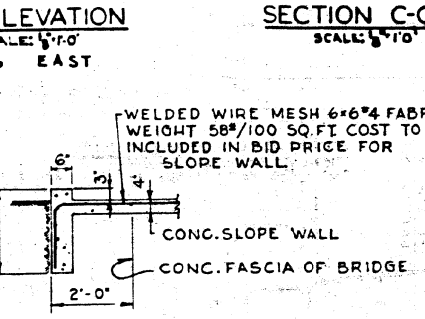
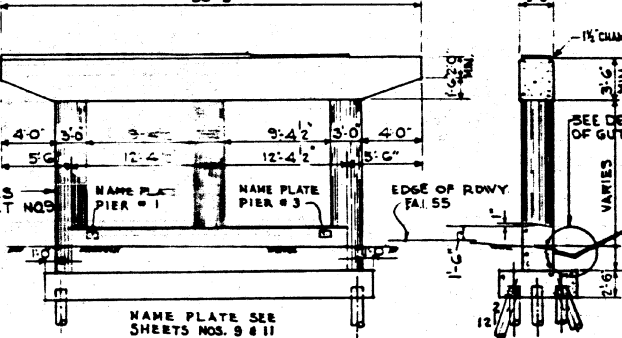
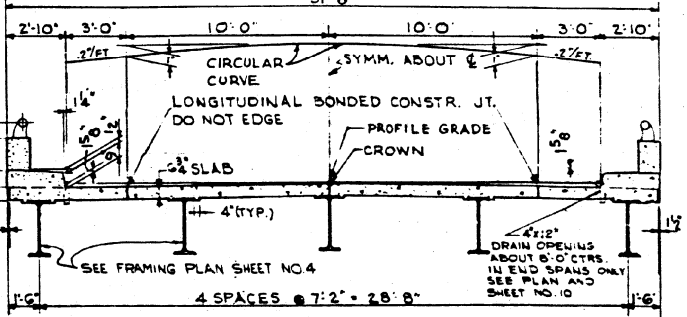
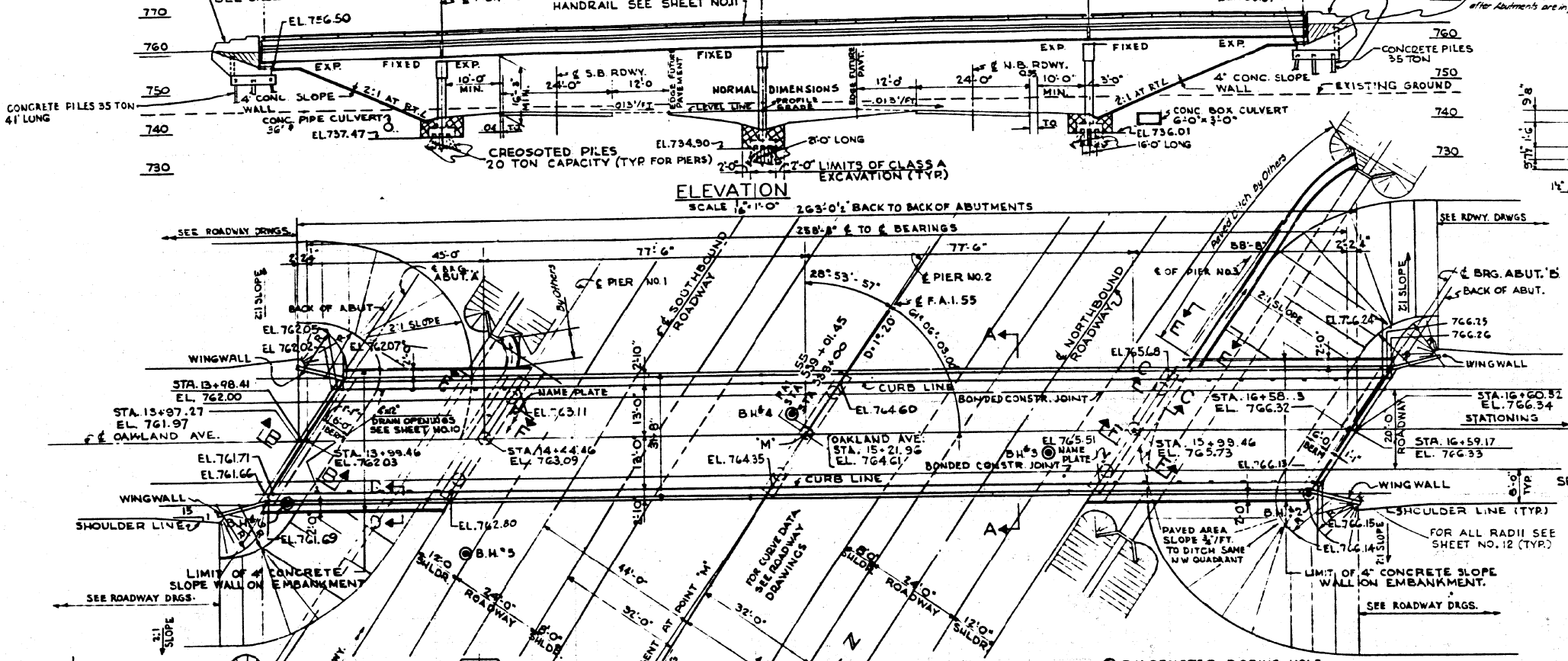
SCALE: NONE SHEET 6 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MCLEAN	69	55
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

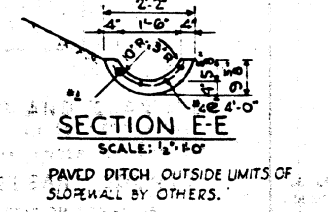
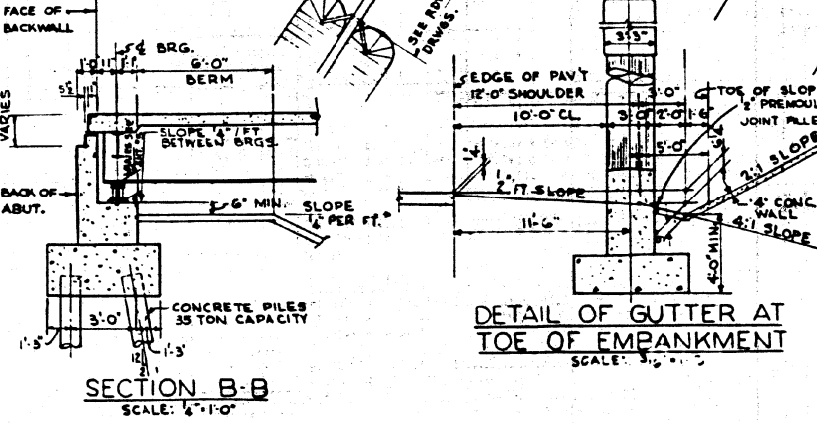
FOR INFORMATION ONLY

B.M. #68 EL. 746.79
R.R. SPIKE IN 48" ELM TREE
90' RT. STA. 8+92 OAKLAND AVE.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 55	57-000-2	MCLEAN	50	9
12 SHEETS				



DESIGN LOADING A.A.S.H.O. W15-S12-44
GENERAL PLAN & ELEVATION
F.A. 55 SECTION 57-000-2
F.A. 55 UNDER OAKLAND AVE
MCLEAN COUNTY
STATION 539+01.45
SCALE AS NOTED DATE JAN. 21, 2020



DE LEUW, CATHY & CO., ENGINEERS
DESIGNED BY S.J. DZIUBA
DRAWN BY J.E. NAWROCKI
CHECKED WILLIAM R. REIFER
IN CHARGE L.B. RIAN

Revised: FAI 55 changed to 36" P.C. in Abut. A, and added Paved Ditch by Others, in note under Abut. B changed FAI 55 to FAI 55. Added note for 12" at back of Abutments. See B-3 revised to cantilever deck. Removed 2' between slope wall and Abut. etc. Changed spreader size from 4" to 12" 11-30-22 N.C.K.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #4 S.N. 057-0111

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	57-000-2	MCLEAN	69	56
#55 BRIDGE PAINTING 2021-1				CONTRACT NO. 70DB7
ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

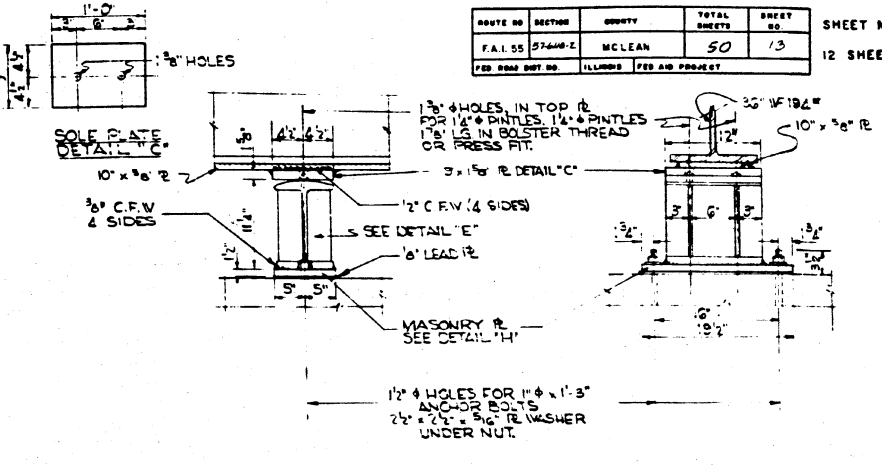
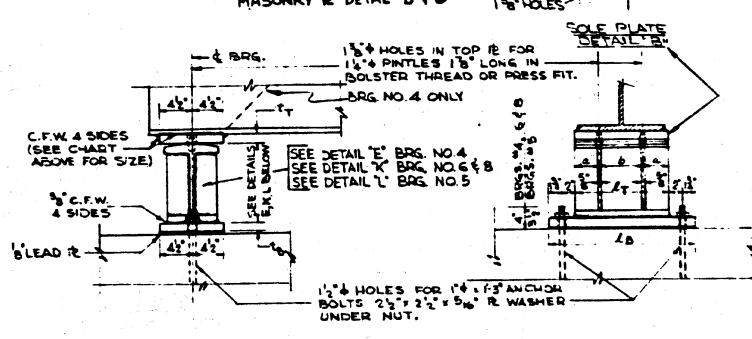
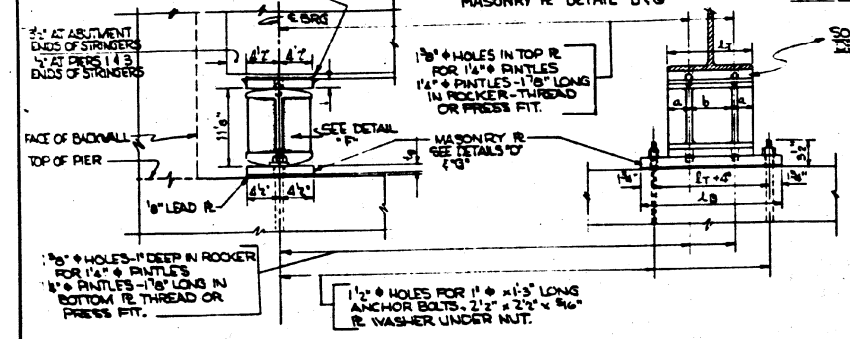
FOR INFORMATION ONLY

SOLE R DETAIL 'A'

BEARING NO.	STRINGER SIZE	L ₁	L ₂	a	b	4b	TOTAL WEIGHT	CONT. PLATE WELD
1	36 WF 150	17 1/2	20 3/4	3 1/2	6 3/4	18 3/4	268 LBS.	1"
2	36 WF 150	19 1/2	20 3/4	3 1/2	6 3/4	18 3/4	276 LBS.	1"
3	27 WF 84	8 1/2	10 1/2	2 1/2	5 1/2	11 1/2	236 LBS.	3/4"

SOLE R DETAIL 'B'

BEARING NO.	STRINGER SIZE	CONC. W/TH	L ₁	L ₂	a	b	TOTAL WEIGHT
4	27 WF 84	5"	15 1/2	17 1/2	2 1/2	5 1/2	281 LBS.
5	36 WF 150	5"	17 1/2	20 3/4	3 1/2	6 3/4	293 LBS.
6	36 WF 150	5"	17 1/2	20 3/4	3 1/2	6 3/4	286 LBS.
8	36 WF 150	5"	17 1/2	20 3/4	3 1/2	6 3/4	283 LBS.



EXPANSION BEARINGS 1, 2, & 3
SCALE 1"=1'-0"

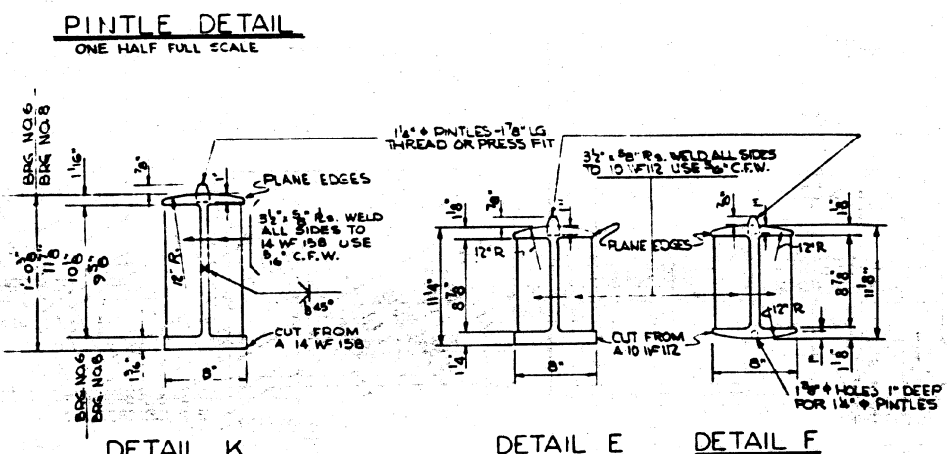
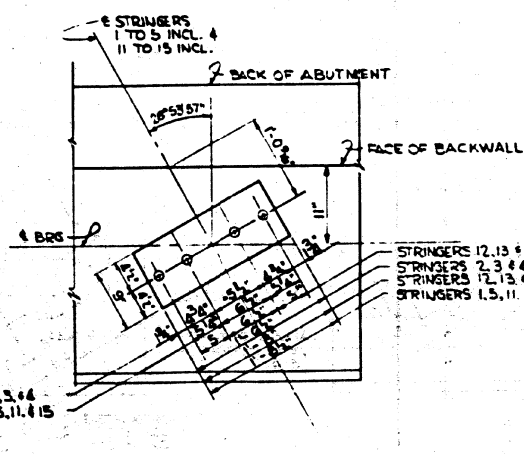
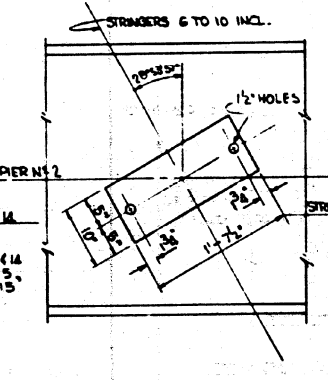
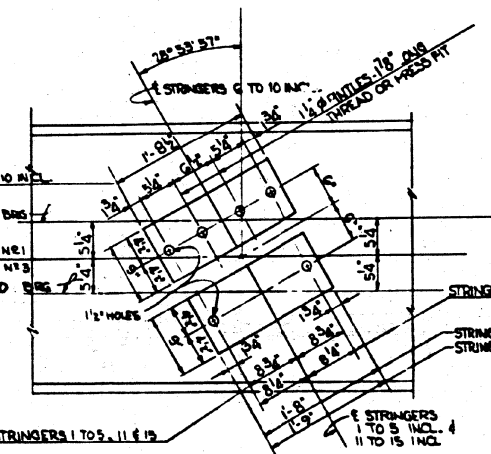
BEARING NO. 1 WEIGHT 276 LBS. EACH FOR OUTSIDE STRINGERS 36 WF 150 (4 REQ'D)
 BEARING NO. 2 WEIGHT 276 LBS. EACH FOR INTERIOR STRINGERS 36 WF 150 (3 REQ'D)
 BEARING NO. 3 WEIGHT 240 LBS. EACH FOR INTERIOR STRINGERS 27 WF 84 (3 REQ'D)
 BEARING NO. 4 WEIGHT 276 LBS. EACH FOR INT. BUTT STRINGERS 36 WF 150 (10 REQ'D)

FIXED BEARINGS 4, 5, 6 & 8
SCALE 1"=1'-0"

BEARING NO. 4 WEIGHT 286 LBS. EACH FOR OUTSIDE STRINGERS 36 WF 150 (2 REQ'D)
 BEARING NO. 5 WEIGHT 281 LBS. EACH FOR INTERIOR STRINGERS 27 WF 84 (4 REQ'D)
 BEARING NO. 6 WEIGHT 286 LBS. EACH FOR INTERIOR STRINGERS 36 WF 150 (3 REQ'D)
 BEARING NO. 8 WEIGHT 283 LBS. EACH FOR OUTSIDE STRINGERS 36 WF 150 (1 REQ'D)

FIXED BEARING 7
SCALE 1"=1'-0"

5 REQUIRED - WEIGHT 235 LBS. EACH FOR 36 WF 150



DETAIL 'D' - MASONRY R'S PIERS NO. 1 & 3
SCALE 1"=1'-0"

DETAIL 'H' - MASONRY R'S PIER NO. 2
SCALE 1"=1'-0"

DETAIL 'G' - MASONRY R'S ABUTMENTS 'A' & 'B'
SCALE 1"=1'-0"

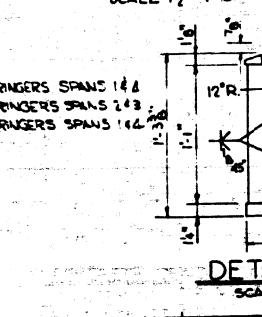
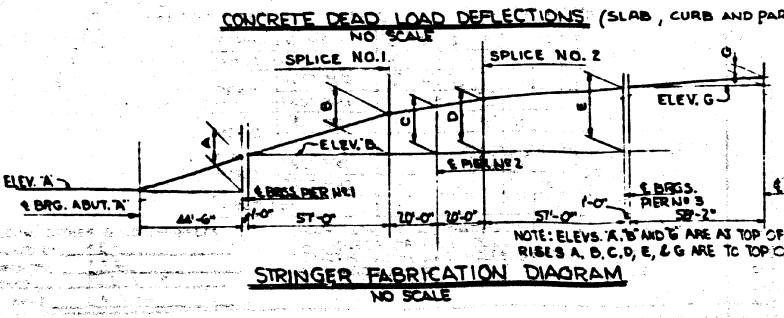
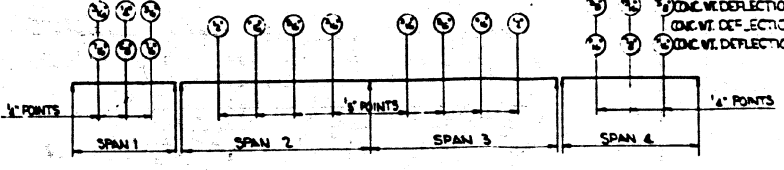
DETAIL K
SCALE 1/2"=1'-0"

DETAIL E
SCALE 1/2"=1'-0"

DETAIL F
SCALE 1/2"=1'-0"

NOTE: ENCLOSED NUMBERS INDICATE LOCATION OF BEARINGS
 UNENCLOSED NUMBERS INDICATE STRINGER NUMBER. SEE SHEET NO. 4

SPAN	1	2	3	4
1	1	2	3	4
2	5	6	7	8
3	9	10	11	12
4	13	14	15	16



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
STRUCTURAL STEEL	POUND	10,050

INCLUDES WEIGHT OF FILL PLATES.

DETAILS OF BEARINGS & STRINGER DATA
 F.A.I. 55 SECTION 57-618-2
 FAI 55 UNCLER OAKLAND AVE.
MCLEAN COUNTY
 STATION 538+01.45
 SCALE: AS NOTED

STR. NO.	ELEV. A	RISE A	STR. NO.	ELEV. D	RISE B	RISE C	RISE D	RISE E	STR. NO.	ELEV. G	RISE G
1	761.475	1'-0 1/2"	6	762.491	1'-9 1/4"	1'-5 1/8"	1'-9 3/4"	2'-7 1/2"	11	765.124	6 3/8"
2	761.480		7	762.521					12	765.171	
3	761.435		8	762.502					13	765.167	
4	761.304		9	762.386					14	765.076	
5	761.125	1'-0 7/8"	10	762.221	1'-9 1/4"	1'-5 1/8"	1'-9 3/4"	2'-7 1/2"	15	764.937	6 3/8"

WORK THIS SHEET WITH SHEET NO. 4

DE LEVY, CATHY & CO. ENGINEERS
 DESIGNED BY W.E.H.
 DRAWN BY R.E.B.
 CHECKED BY J.L.B. & L.R.
 IN CHARGE L.H. RIAN

CHART ABOVE INDICATES THICKNESS OF FILL. RISES, LENGTHS, WIDTHS AND HOLES SAME AS MASONRY R.

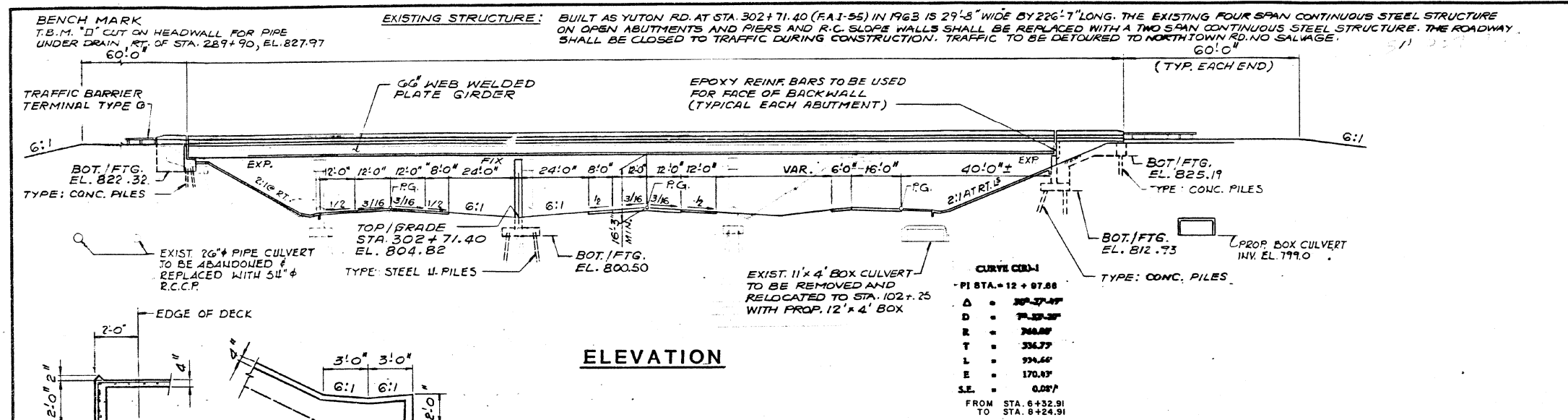
JCB NO. 66 (H.B.G) 11/4/58

DETAILS OF BEARINGS & STRINGER DATA
 F.A.I. 55 SECTION 57-618-2
 FAI 55 UNCLER OAKLAND AVE.
MCLEAN COUNTY
 STATION 538+01.45
 SCALE: AS NOTED

FOR INFORMATION ONLY

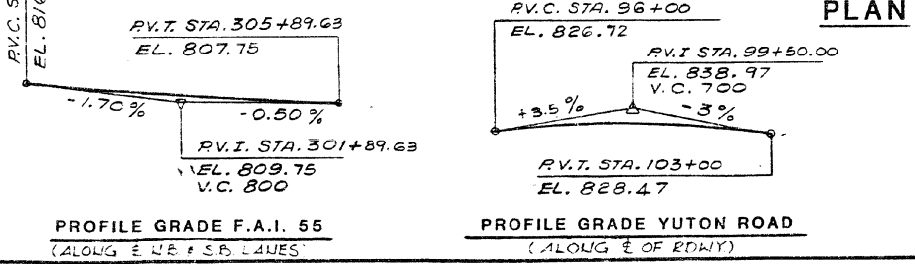
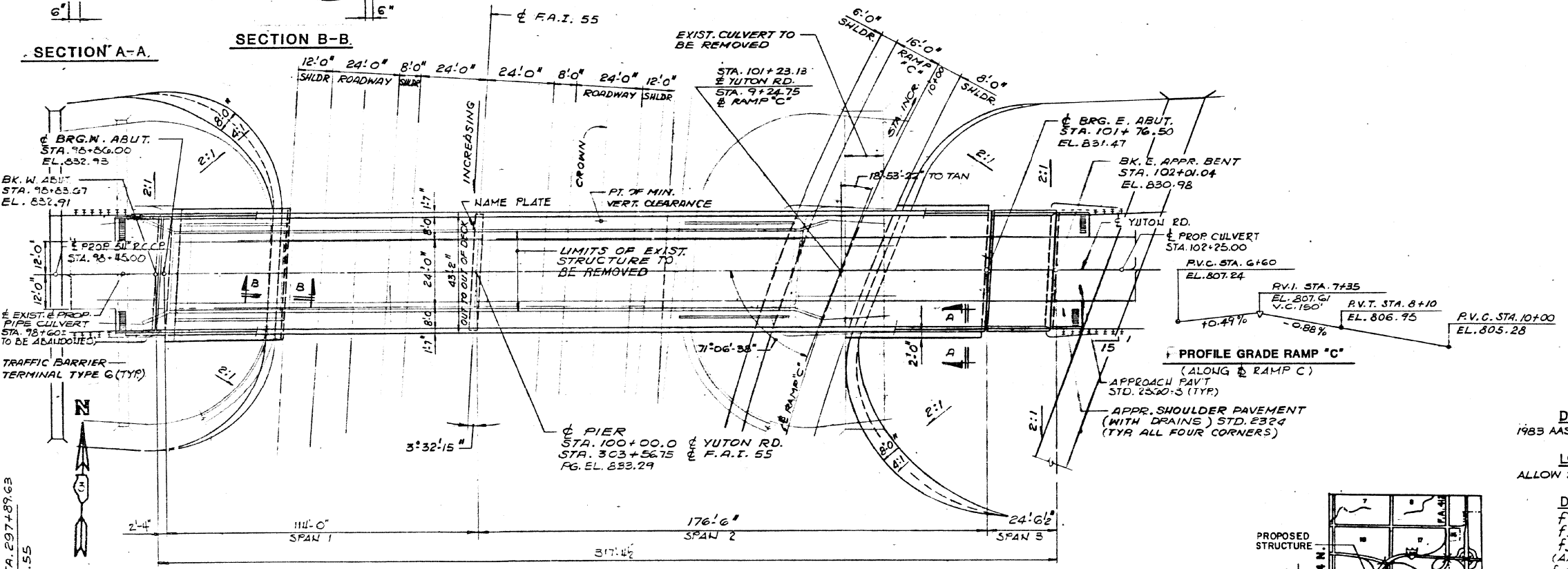
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 55	57-5HBR-1	MCLEAN	69	91C
STA.	TO STA.			
F.H.W. & REG. NO. 4	ILLINOIS	PROJECT		

SHEET 1 OF 19



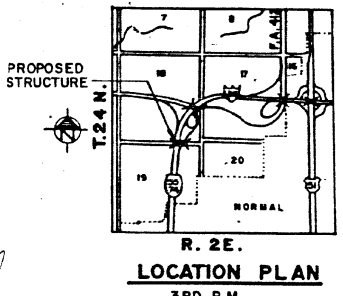
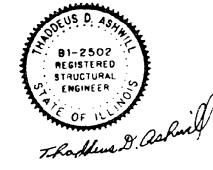
CURVE DATA

PI STA.	= 12 + 97.88
Δ	= 30° 27' 49"
D	= 74.39 28'
R	= 70.00'
T	= 53.77'
L	= 93.44'
E	= 170.87'
S.E.	= 0.08%
FROM STA.	6 + 32.91
TO STA.	8 + 24.91



APPROVED
FOR STRUCTURAL ADEQUACY ONLY

John W. Clark
Registered Structural Engineer



DESIGN SPECIFICATIONS
1983 AASHTO, 1984, 1985, 1986, 1987 AND 1988 INTERIMS

LOADING HS20-44
ALLOW 25#/SQ.FT. FOR FUTURE WEARING SURFACE

DESIGN STRESSES
f'c = 3,500 P.S.I.
fy = 60,000 P.S.I. (REINF.)
fy = 50,000 P.S.I. (GIRDERS)
(AASHTO M-223 Gr 50) (STRUCTURAL STEEL)
fy = 36,000 P.S.I. M163

GENERAL PLAN
YUTON ROAD OVER
F.A.I. - 55 AND RAMP "C"(R)
F.A.I. ROUTE 55 - SEC. 57-5HBR-1
MCLEAN COUNTY
STATION 303+56.75 (F.A.I. - 55)
STRUCTURE NUMBER 057-0223

MODEL: 1408ELM148E
FILE: 148E1.DWG
C:\Users\jdoyle\OneDrive\Desktop\148E1.DWG

USER NAME = eaglinga	DESIGNED -	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 7/29/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #5 S.N. 057-0223

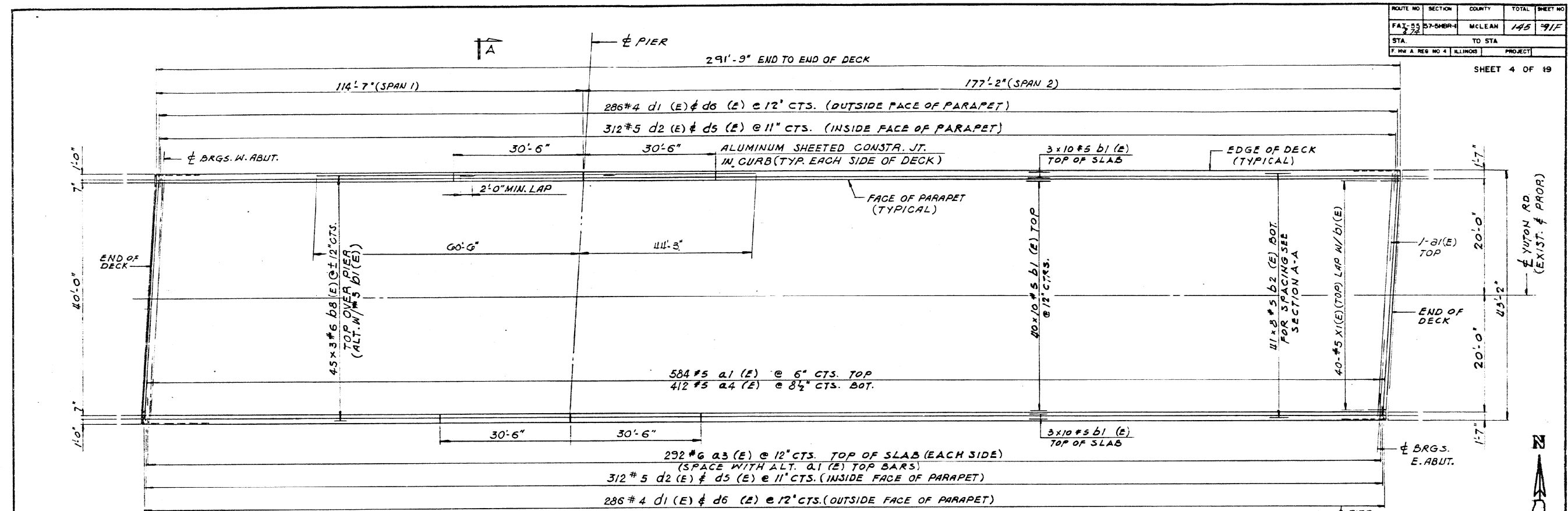
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FOR INFORMATION ONLY

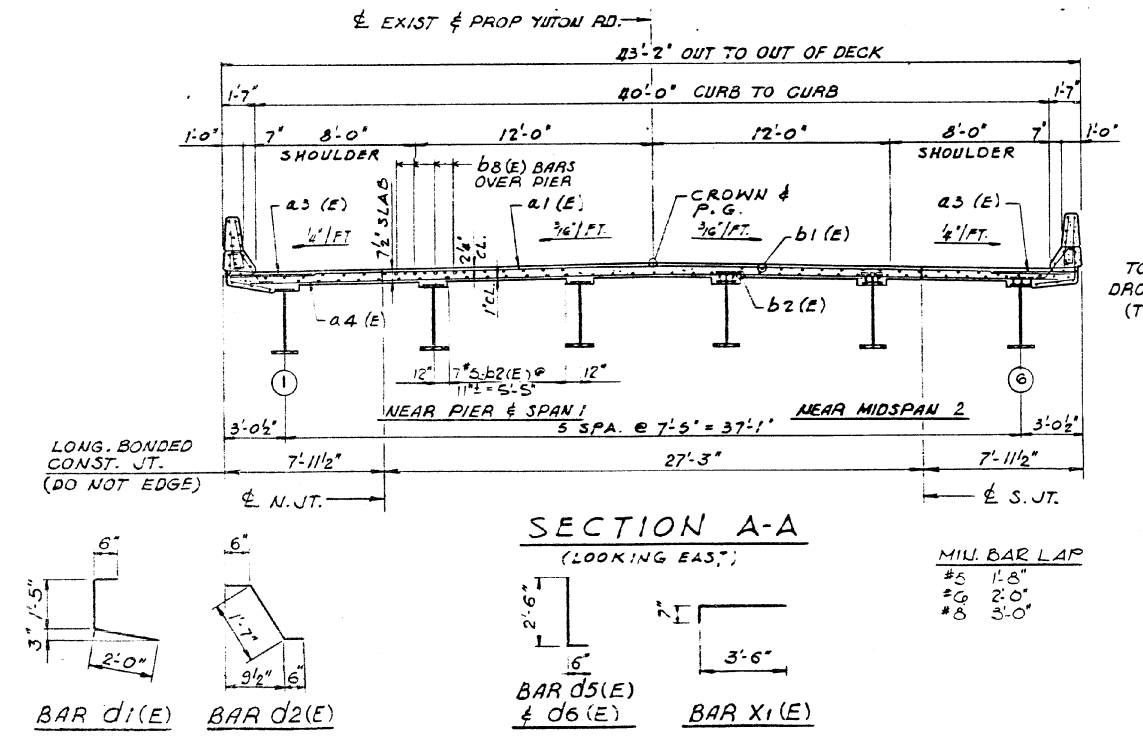
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55		MCLEAN	69	60
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEET NO.
F.A.I. 55	57-5HBR-1	MCLEAN	145
STA. 72	TO STA.		91F
F.W.A. REG NO. 4	ILLINOIS	PROJECT	

SHEET 4 OF 19

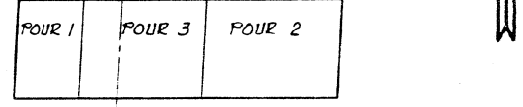


DECK REINFORCEMENT PLAN



BILL OF MATERIAL				
MARK	No.	SIZE	LENGTH	SHAPE
B1(E)	584	5	41'-3"	—
B3(E)	584	6	4'-0"	—
B4(E)	412	5	40'-9"	—
B1(E)	460	5	30'-9"	—
B2(E)	328	5	38'-3"	—
B8(E)	135	6	36'-6"	—
B9(E)	8	8	30'-2"	—
B10(E)	8	5	30'-2"	—
B11(E)	4	8	40'-6"	—
B12(E)	12	5	27'-3"	—
B13(E)	16	8	38'-9"	—
B14(E)	16	5	38'-1"	—
D1(E)	572	4	3'-11"	└
D2(E)	624	5	2'-7"	└
D5(E)	624	5	3'-0"	L
D6(E)	572	4	3'-0"	L

(CONT.)				
MARK	No.	SIZE	LENGTH	SHAPE
B2(E)	48	4	30'-2"	—
B3(E)	48	4	19'-2"	—
B4(E)	96	4	18'-0"	—
XI(E)	40	5	4'-1"	└
CLASS X CONCRETE SUPERSTRUCTURE		CU.YD.	374.7	
REINFORCEMENT (EPOXY COATED)		LBS.	94,530	



DECK POURING SEQUENCE (SEQUENCE DENOTED NUMERICALLY)

NOTES:
 ALL BAR DIMENSIONS ARE OUT TO OUT.
 REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
 45x3 #6 B8(E) INDICATES 45 LINES OF BARS WITH 3 LENGTHS OF BARS PER LINE.
 SEE SHEET 5 OF 19 FOR PARAPET, EXP.JT. & DECK DETAILS.

DECK REINFORCEMENT PLAN SPANS 1 & 2
 YUTON ROAD OVER F.A.I. - 55 AND RAMP "C"(R)
 F.A.I. ROUTE 55 - SEC. 57-5HBR-1
 MCLEAN COUNTY
 STATION 303+56.75 (F.A.I.-55)
 STRUCTURE NUMBER 057-0223

alfred benesch & company
 CONSULTING ENGINEERS
 222 NORTH MICHIGAN AVENUE CHICAGO ILLINOIS 60601
 JOB NO. 2203

SCALE COPY COPY

MODEL: 4-MODELNAME
 FILE: 4-MODEL-PROJECTNAME.DWG
 PROJECT: 57-5HBR-1
 DATE: 7/29/2020

USER NAME = eaglinga	DESIGNED -	REVISED -
PLOT SCALE = 40.0000 "/td> <td>CHECKED -</td> <td>REVISED -</td>	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**AS-BUILT PLANS
 LOCATION #5 S.N. 057-0223**

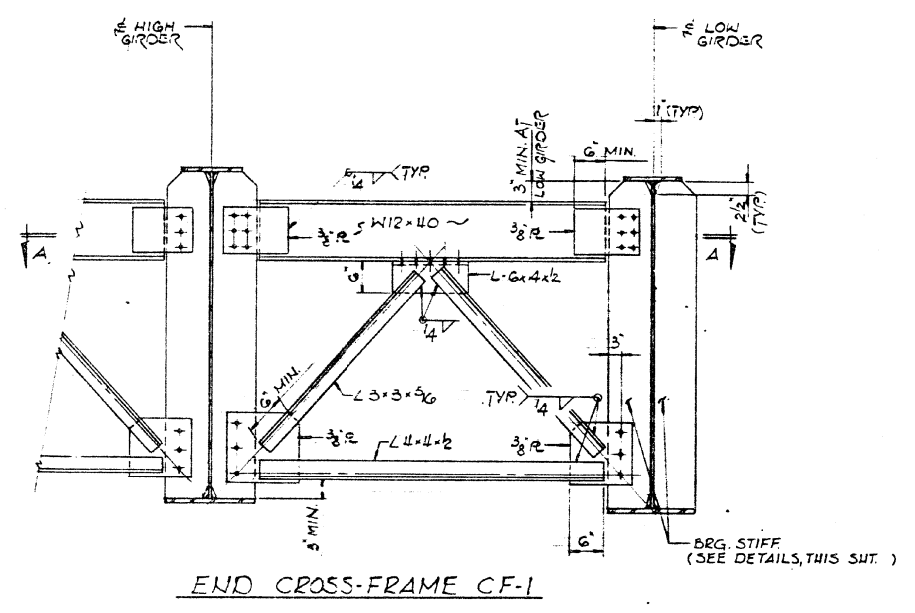
SCALE: NONE SHEET 2 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55		MCLEAN	69	61
*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
ILLINOIS		FED. AID PROJECT		

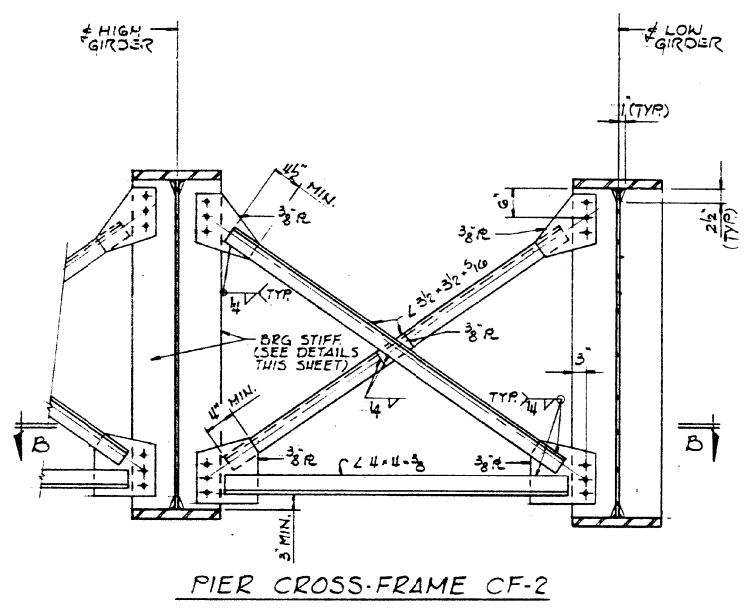
FOR INFORMATION ONLY

ROUTE NO	SECTION	COUNTY	TOTAL SHEET NO
F.A.I. 55	57-5HBR-1	MCLEAN	145
STA.	TO STA.	PROJECT	
F.H.W.A. RES. NO. 4	ILLINOIS		

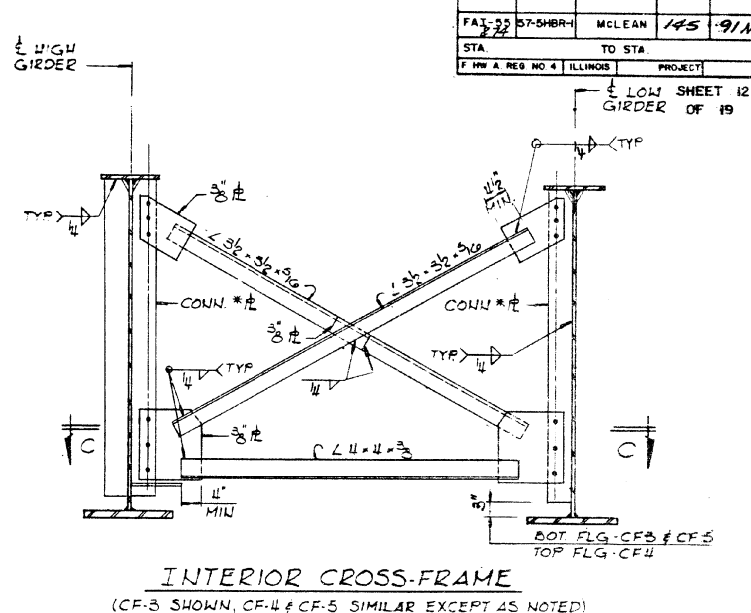
LOW SHEET 12 OF 19



END CROSS-FRAME CF-1

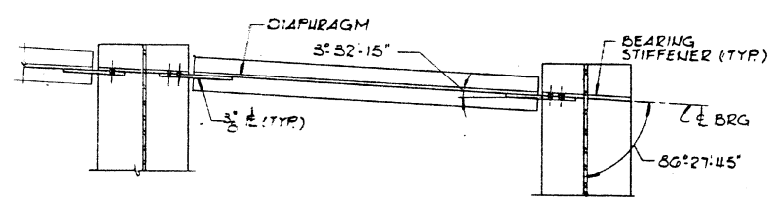


PIER CROSS-FRAME CF-2

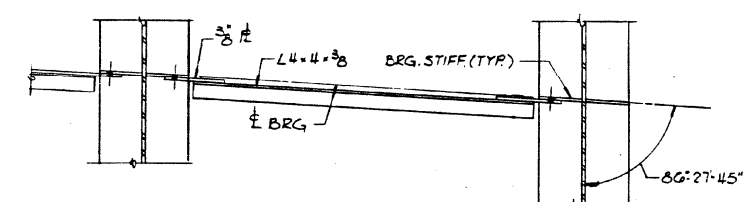


INTERIOR CROSS-FRAME

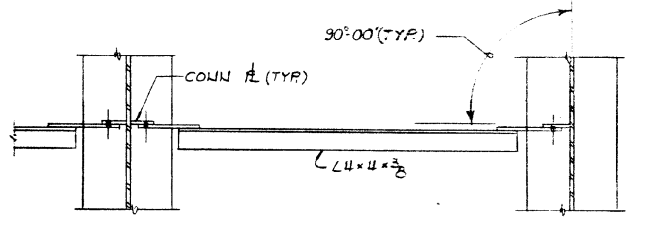
(CF-3 SHOWN, CF-4 & CF-5 SIMILAR EXCEPT AS NOTED)
 * 5/8" x 7' CONN. PL. FOR CF-4 & CF-5
 * 5/8" x 5 1/2' CONN. PL. FOR CF-3



SECTION A-A



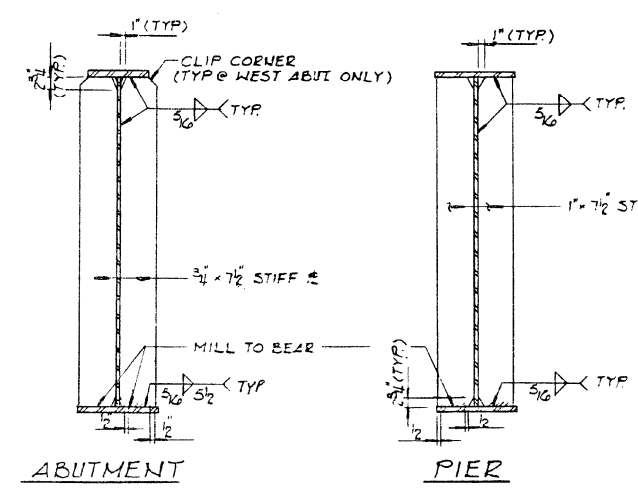
SECTION B-B



SECTION C-C

NOTES
 ALL HOLES IN CROSS-FRAME & DIAPHRAGM SHALL BE 1/8" Ø FOR 3/8" Ø BOLTS W/ 2 HARDENED WASHERS

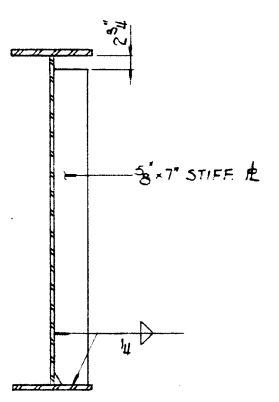
NOTE: ALL MATERIAL SHOWN ON THIS SHEET FURNISHED UNDER A SEPARATE STEEL FABRICATION CONTRACT (SECTION MB8-003F) UNLESS OTHERWISE NOTED.



ABUTMENT

PIER

BEARING STIFFENERS



INTERMEDIATE STIFFENER
 PLACE ON INSIDE FACE OF WEB OF EXTERIOR GIRDERS ① & ②

alfred benesch & company
 CONSULTING ENGINEERS
 477 157th STREET KENOSHA WISCONSIN 53141
 JOB NO. 2203

STEEL DETAILS
 YUTON ROAD OVER
 F.A.I. - 55 AND RAMP "C"(R)
 F.A.I. ROUTE 55 - SEC. 57-5HBR-1
 MCLEAN COUNTY
 STATION 303+56.75 (F.A.I. - 55)
 STRUCTURE NUMBER 057-0223

REVISED BY HLC 5-19-87

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SCALE COPY COPY

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	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
 LOCATION #5 S.N. 057-0223

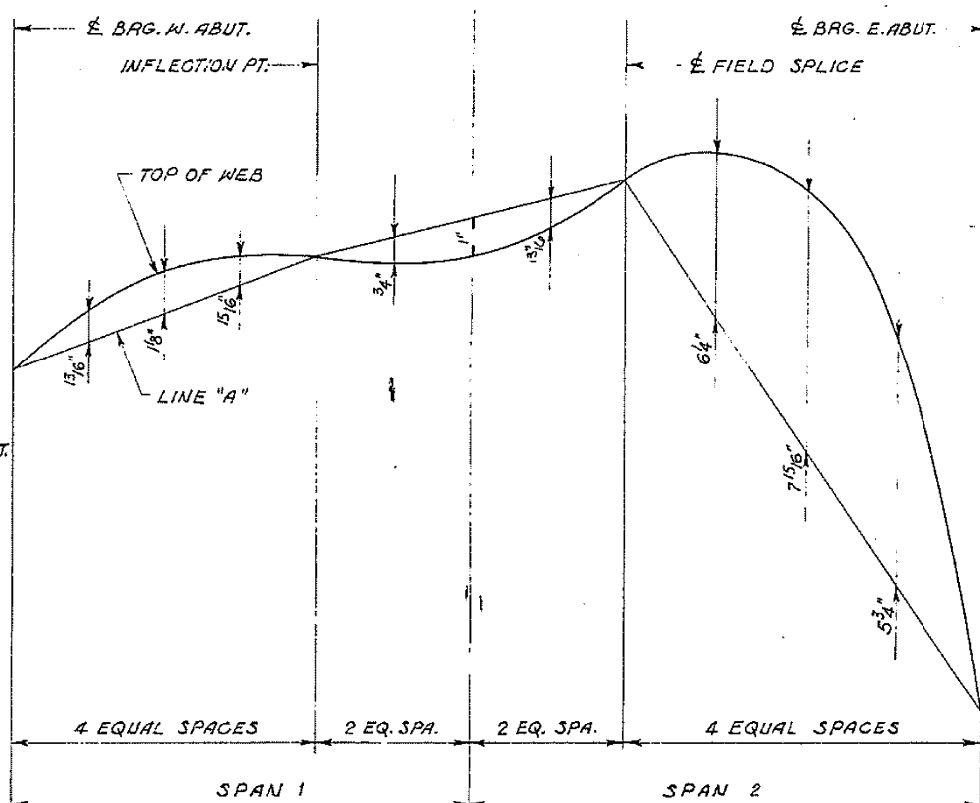
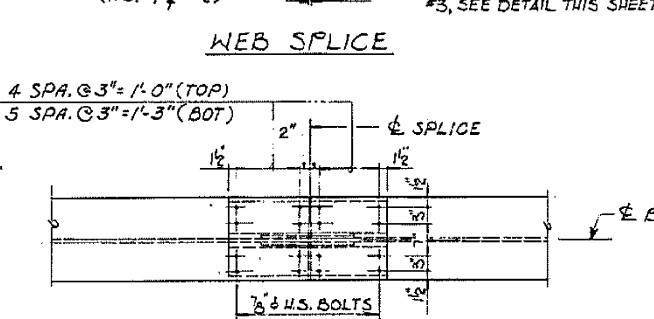
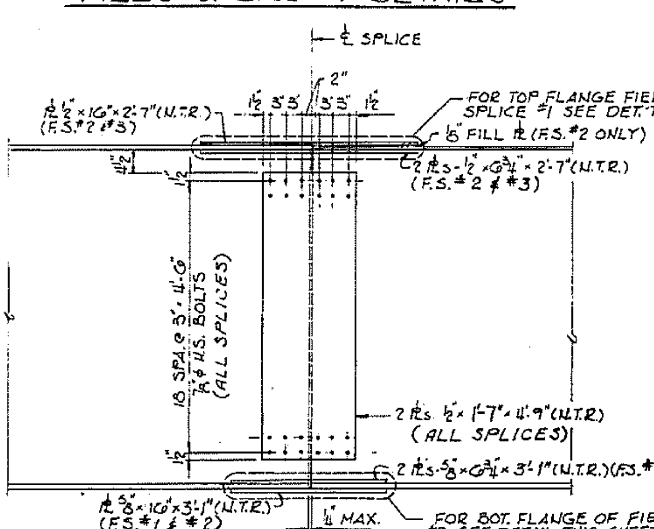
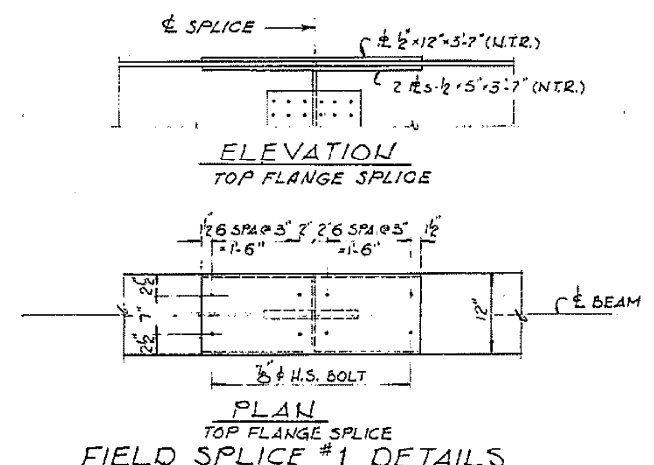
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	63
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEET NO.
F.A.I. 55	57-5HBR-1	MCLEAN	145 910
STA.	TO STA.	PROJECT	
F.H.W.A. REG. NO. 4	ILLINOIS		

SHEET 13 OF 19



GAMBER DIAGRAM

NOTES: LINE "A" IS A STRAIGHT LINE BETWEEN THE BEARING AT ABUTMENT AND INFLECTION POINT OR FIELD SPLICE BETWEEN FIELD SPLICES @ TOP OF WEB PLATE. GAMBER SHOWN INCLUDES ALLOWANCES FOR VERTICAL CURVE AND DEAD LOAD DEFLECTION DUE TO DECK CONCRETE & STEEL WEIGHT ONLY.

INTERIOR GIRDER MOMENT TABLE

	0.4 SPAN 1	PIER	0.6 SPAN 2
I _s (in ⁴)	37155	35984	53328
I _c (in ⁴)			114594
S _s (in ³)	1011	2457	1796
S _c (in ³)			2293
ϕ (ft)	0.710	0.710	0.710
M _D (k)	159	3280	2353
S _D (ft)	0.300	0.300	0.300
M _S (k)	141	915	810
M _{LL} (k)	883	1487	1708
M _{IMP} (k)	233	338	340
M ₃ (M _{LL} - IMP) (k)	1860	3042	3414
M _a (k)	2809	9407	8550
F _s ϕ NON-COMP (K.S.I.)	3.5	20.5	15.7
F _s ϕ COMP (K.S.I.)			4.2
F _s ϕ ₃ (LL+I) (K.S.I.)	22.1	14.8	17.8
F _s (OVERLOAD) (K.S.I.)	25.6	35.3	37.7
F _s (TOTAL) (K.S.I.)	33.3	45.9	49.0
V _R (k)	63.5		72.6

INTERIOR GIRDER REACTION TABLE

LOCATION	W. ABUT	PIER	E. ABUT
R _D (k)	34.7	249.5	89.3
*R _{LL} (k)	46.0	101.8	55.1
*I _{MP} (k)	12.2	18.4	9.2
R _{TOTAL}	92.9	369.7	153.6

(* MAX. LL + I UPLIFT AT W. ABUT IS 10.6 KIPS)

I_s AND S_s ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE STEEL SECTION USED IN COMPUTING I_s (TOTAL AND OVERLOAD).
 I_c AND S_c ARE THE MOMENT OF INERTIA AND SECTION MODULUS OF THE COMPOSITE SECTION USED IN COMPUTING I_s (TOTAL AND OVERLOAD).
 V_R IS THE MAXIMUM ϕ + IMPACT SHEAR RANGE IN SPAN.
 I_s (TOTAL) IS THE SUM OF THE STRESSES DUE TO 1.3 (M_D + M_S ϕ + 5/3 (M_{LL} + I)).
 I_s (OVERLOAD) IS THE SUM OF THE STRESSES DUE TO M_D + M_S ϕ + 5/3 (M_{LL} + I).

M_D - MOMENT DUE TO DEAD LOADS ON NON-COMPOSITE SECTION.
 M_S ϕ - MOMENT DUE TO DEAD LOADS ON COMPOSITE SECTION.
 M_{LL} - MOMENT DUE TO LIVE LOAD ON NON-COMPOSITE OR COMPOSITE SECTION.
 M_a - (APPLIED MOMENT) = 1.3 [M_D + M_S ϕ + 5/3 (M_{LL} + I)]

NOTE: ALL MATERIAL SHOWN ON THIS SHEET FURNISHED UNDER A SEPARATE STEEL FABRICATION CONTRACT (SECTION 1400-003 F) UNLESS OTHERWISE NOTED

STEEL DETAILS

YUTON ROAD OVER
 F.A.I. - 55 AND RAMP "C"(R)
 F.A.I. ROUTE 55-SEC. 57-5HBR-1
 MCLEAN COUNTY
 STATION 303+56.75 (F.A.I.-55)
 STRUCTURE NUMBER 057-0223

alfred benesch & company
 CONSULTING ENGINEERS
 200 NORTH LAKEVIEW AVENUE, CHICAGO, ILLINOIS 60601
 JOB NO. 2203

REVISED BY HLC 5-17-81

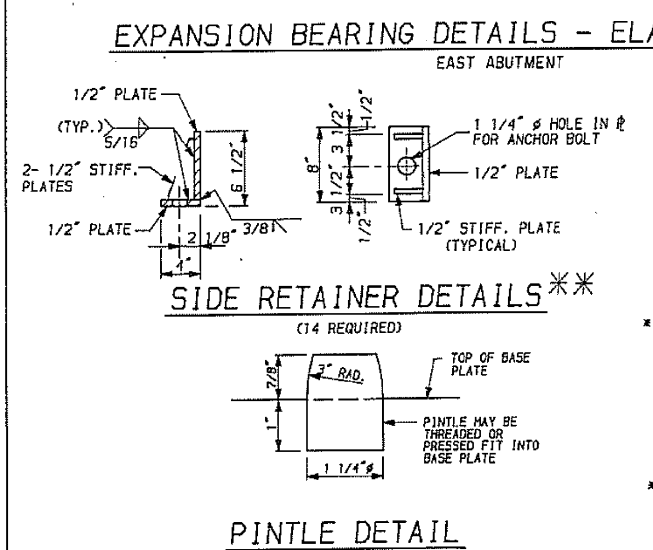
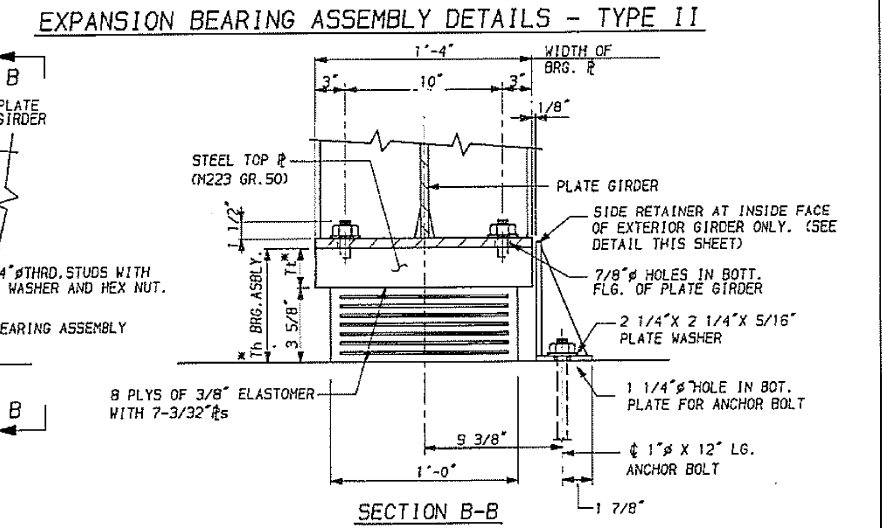
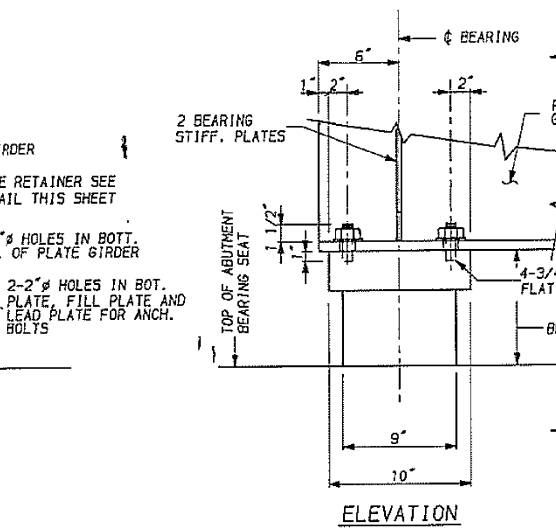
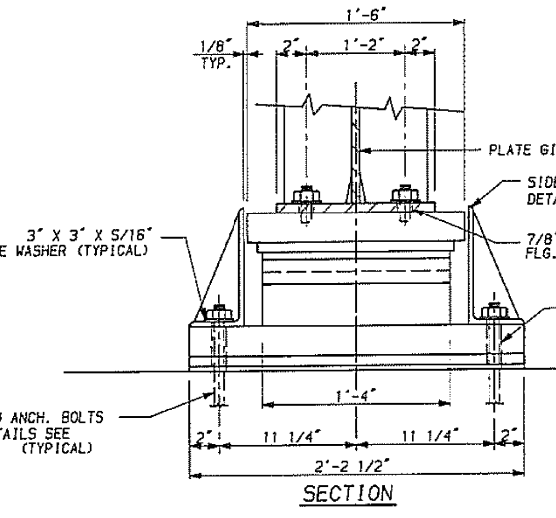
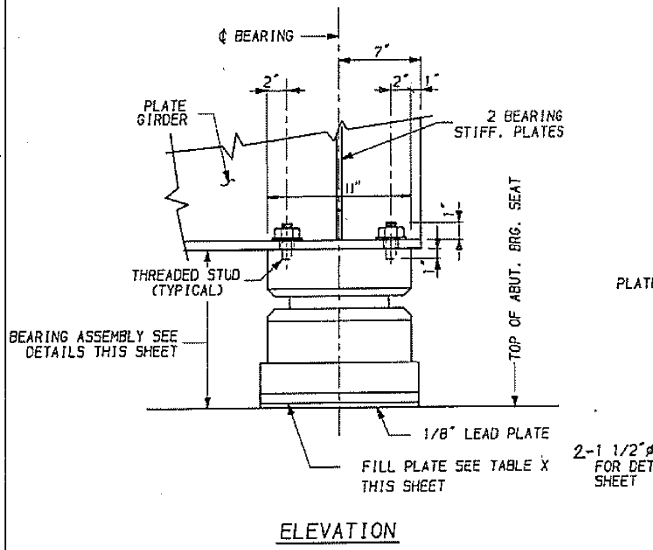
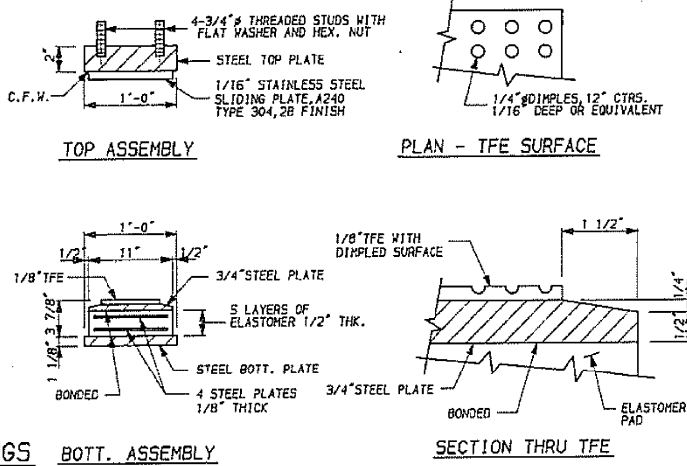
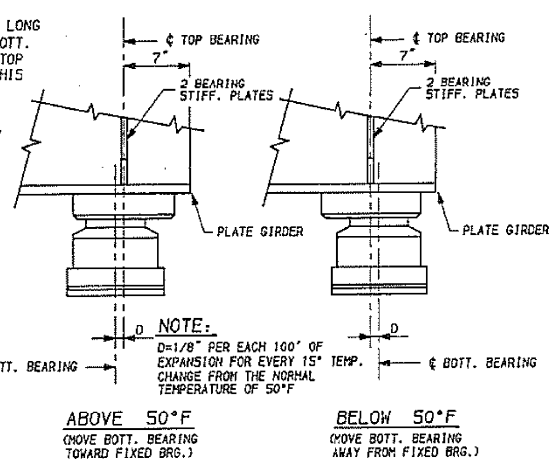
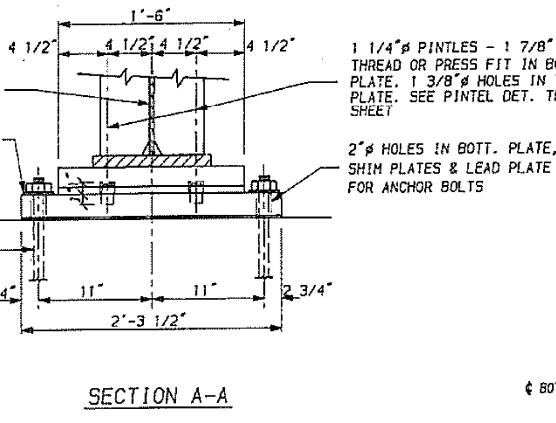
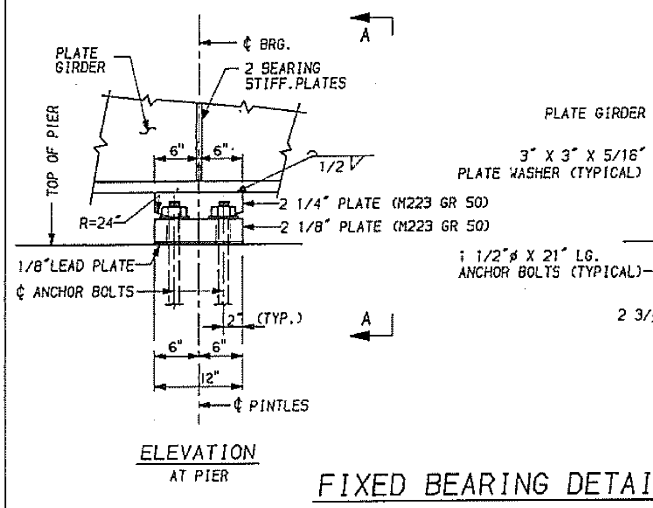
FOR INFORMATION ONLY

USER NAME = eaglinga	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	AS-BUILT PLANS LOCATION #5 S.N. 057-0223	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISED -	VAR.				MCLEAN	69	64	
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -			*D5 BRIDGE PAINTING 2021-1		CONTRACT NO. 70D87		
PLOT DATE = 7/29/2020	DATE -	REVISED -			ILLINOIS	FED. AID PROJECT			

MODEL: 4100ELM1415; FILE: 4100ELM1415.dwg; PLOT: 4100ELM1415.dwg; PLOT DATE: 7/29/2020; PLOT SCALE: 40,0000' / in.; PLOT DATE: 7/29/2020

ROUTE NO	SECTION	COUNTY	TOTAL SHEET NO
F.A.I.-55	57-5HBR-1	MCLEAN	145
STA.	TO STA.		910
F. ILL. A. REG. NO. 4		ILLINOIS	PROJECT

SHEET 14 OF 19



NOTES:

THE 1/8" TFE SHEET SHALL BE BONDED DIRECTLY TO THE TOP STEEL PLATE WITH A TWO COMPONENT, MEDIUM VISCOSITY EPOXY RESIN, CONFORMING TO THE REQUIREMENTS OF THE FEDERAL SPECIFICATION MM-A-134, TYPE 1. THE BOND AGENT SHALL BE APPLIED ON THE FULL AREA OF THE CONTACT SURFACES. BONDING OF 1/8" TFE SHEET DURING VULCANIZING PROCESS WILL BE PERMITTED PROVIDED THE PROCESS AND METHOD OF ADJUSTING ASSEMBLY HEIGHT IS APPROVED BY THE ENGINEER.

* FOR Tt AND Th SEE TABLE Y THIS SHEET.

SHIM PLATES SHALL NOT BE PLACED UNDER ELASTOMERIC BEARING ASSEMBLY TYPE I

** FOR SIDE RETAINER, EQUIVALENT ROLLED ANGLE WITH STIFFENERS WILL BE ALLOWED IN LIEU OF WELDED PLATES. STRUCTURAL STEEL TO BE M183.

TABLE Y (TYPE I)

LOCATION	GIRDER	Tt (IN.)	Th (IN.)
N. ABUT.	1	1 3/4"	5 3/8"
N. ABUT.	2	1 5/8"	5 1/4"
N. ABUT.	3, 4, 5, 6	1 1/2"	5 1/8"

BILL OF MATERIAL

ITEM	UNIT	TOTAL
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	6
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	6

TABLE X (TYPE II)

LOCATION	GIRDER	FILL # THK. (IN.)
E. ABUT.	5	3/8"
E. ABUT.	6	1/2"

NOTE: ALL MATERIALS SHOWN ON THIS SHEET ARE FURNISHED UNDER A SEPARATE STEEL FABRICATION CONTRACT (SECTION 1700-003 F)

BEARING DETAILS

YUTON ROAD OVER
F.A.I. - 55 AND RAMP "C"(R)
F.A.I. ROUTE 55-SEC. 57-5HBR-1
MCLEAN COUNTY
STATION 303+56.75 (F.A.I.-55)
STRUCTURE NUMBER 057-0223

alfred banesch & company
CONSULTING ENGINEERS
333 NORTH MICHIGAN AVENUE, CHICAGO, ILLINOIS 60610
JOB NO. 2203

REVISED BY HLC 6-19-09 BEARINGS 58

FOR INFORMATION ONLY

USER NAME = eaglinga	DESIGNED -	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 7/29/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS
LOCATION #5 S.N. 057-0223

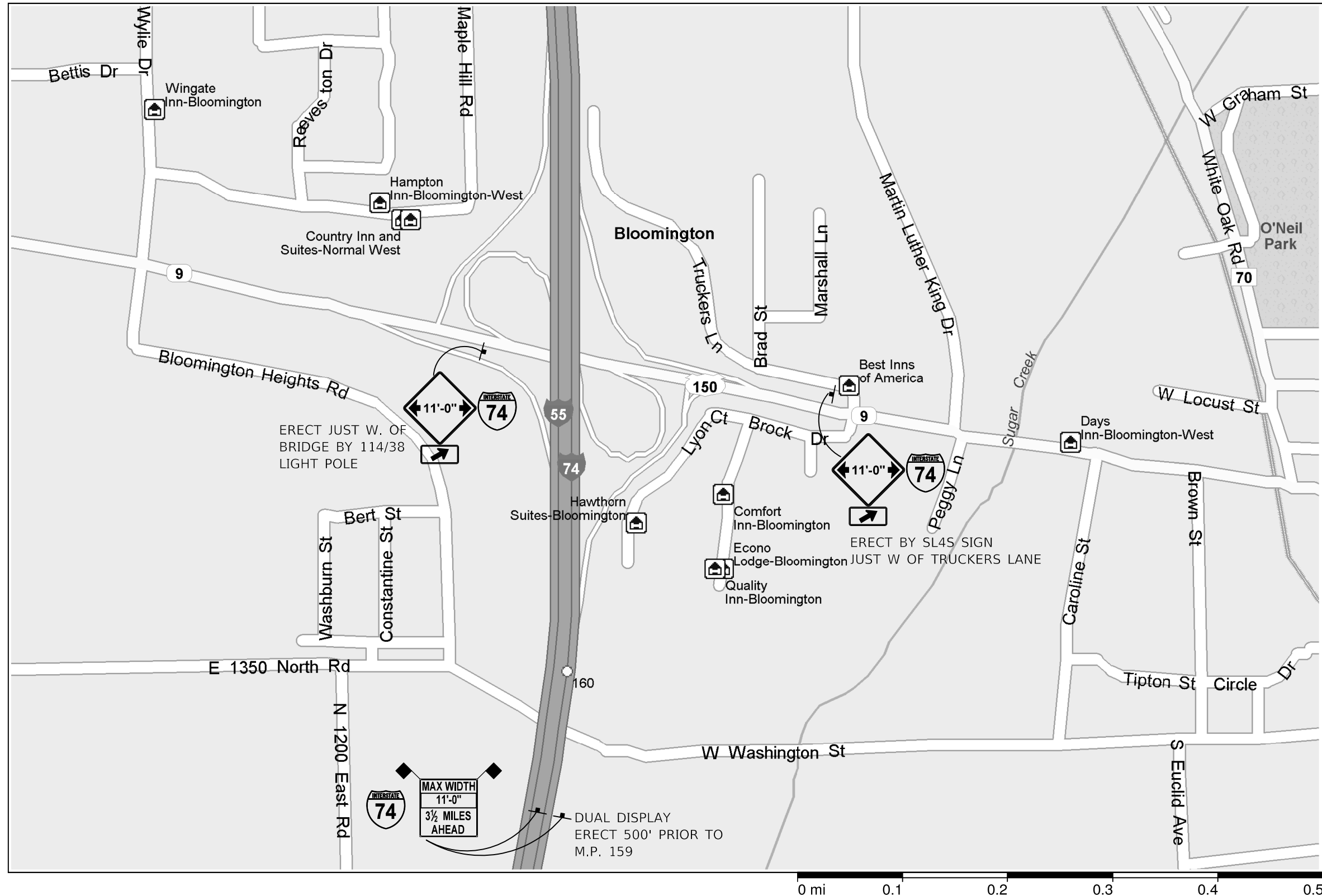
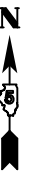
SCALE: NONE SHEET 6 OF 6 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	65
*D5 BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS		FED. AID PROJECT		

WIDTH RESTRICTION SIGNING

057-0223

I-74 WB RAMP



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	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING
LOCATION #5 S.N. 057-0223

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MCLEAN	69	66
*DS BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS FED. AID PROJECT				

WIDTH RESTRICTION SIGNING

057-0223

I-74 WB RAMP



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 OFFICE: \\OFFICE\NAME
 DATE: 7/29/2020

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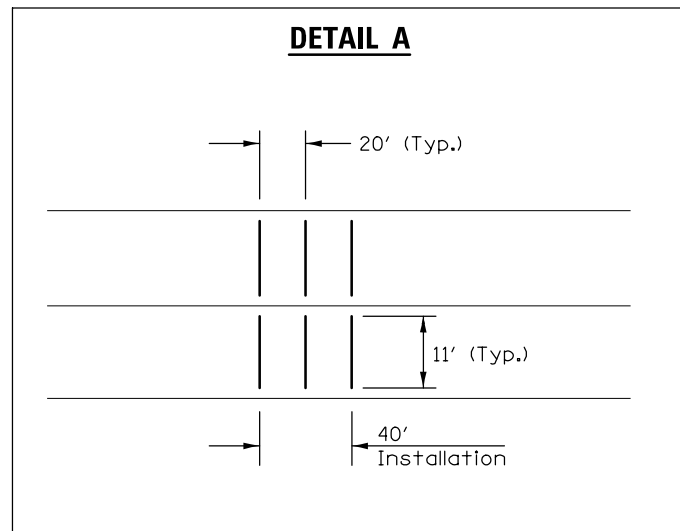
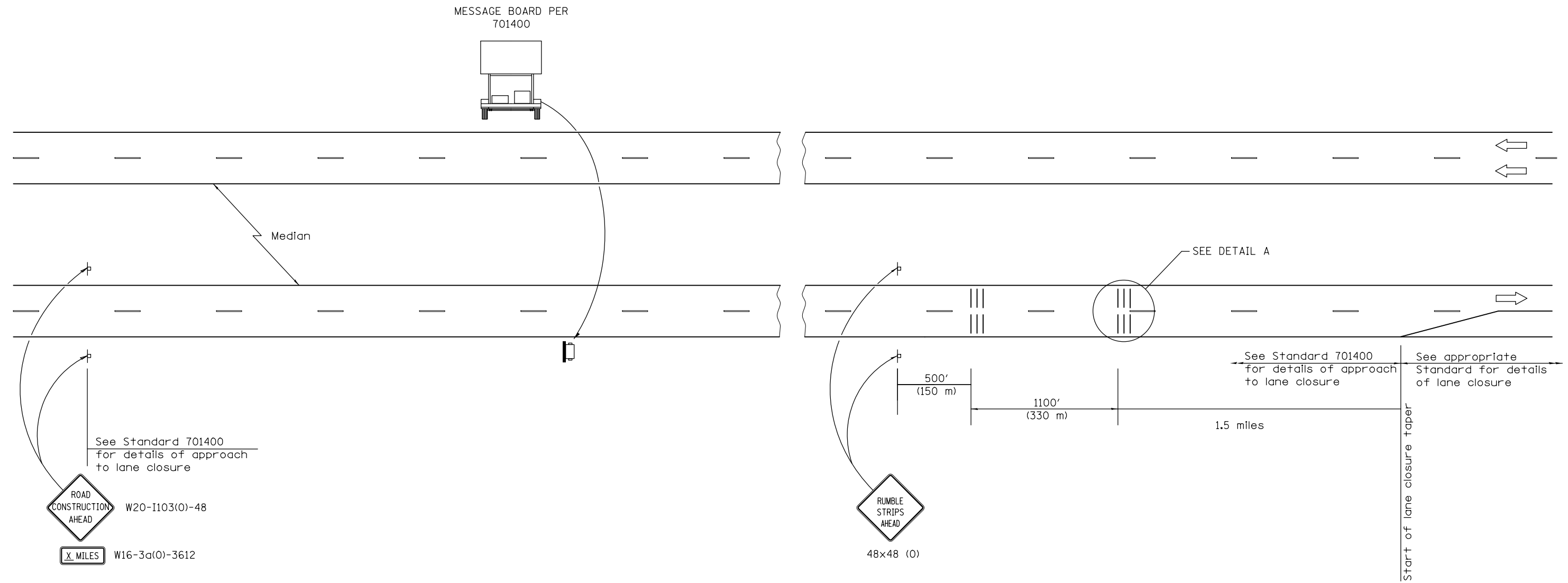
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WIDTH RESTRICTION SIGNING
LOCATION #5 S.N. 057-0223**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	MCLEAN	69	67
*DS BRIDGE PAINTING 2021-1			CONTRACT NO. 70D87	
ILLINOIS		FED. AID PROJECT		

DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)



SYMBOLS

- ┆ Sign
- ||| Temporary Rumble Strips (Special)
- ☐ Trailer Mounted Sign

GENERAL NOTES

Remove the Temporary Rumble Strips (Special) prior to the removal of the advanced warning signs.

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

On I-39 rumble strip array required at 1.5 miles from taper. Rumble strips at 3 miles not required.

FILE NAME =	USER NAME = eaglinge	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 7/29/2020	DATE - 09/11/2017	REVISED -	ILLINOIS FED. AID PROJECT						