

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	1
		ILLINOIS	CONTRACT NO. 70E49	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

CURRENT TRAFFIC DATA FOR F.A.I. 39
2017 ADT = 18,500
P.U. % 68.4
S.U. % 3.5
M.U. % 28.1

DESIGN DESIGNATION
N/A

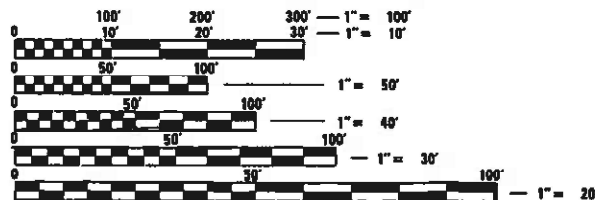
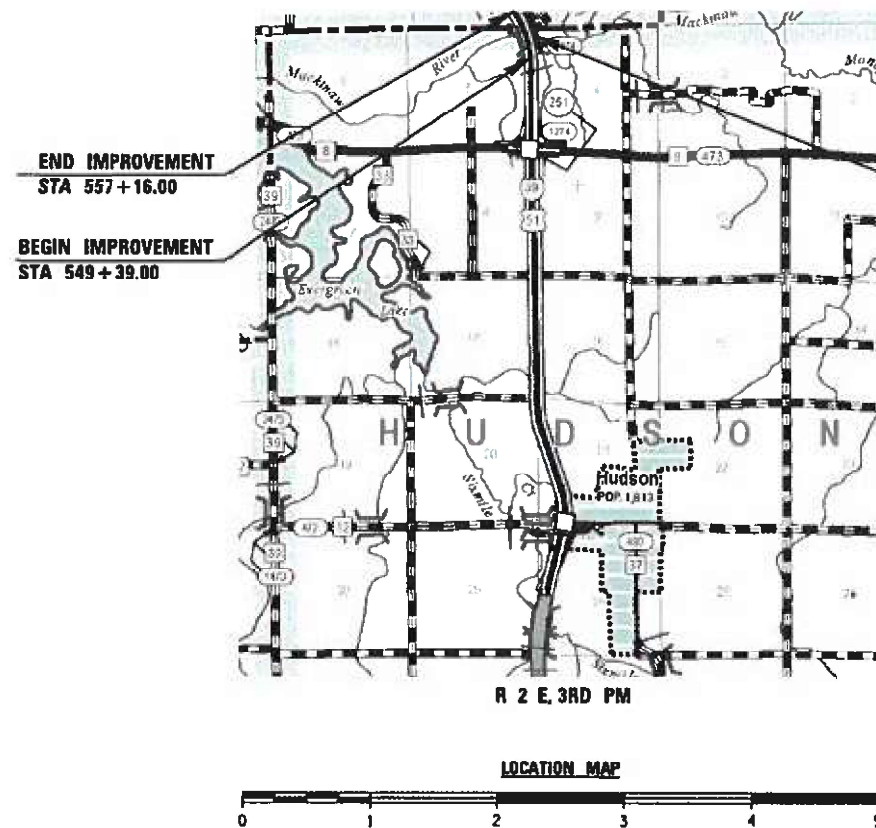
**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 39 (I-39)
SECTION (57-4B-1)BR
PROJECT NO. NHPP-DR3G(309)
INTERSTATE BRIDGE PRESERVATION
BRIDGE DECK OVERLAY
MCLEAN COUNTY

C-95-089-20



OVER MACKINAW RIVER N OF HUDSON



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 HUDSON TOWNSHIP

PROJECT ENGINEER: JASON W. STULTS
PROJECT MANAGER: DAVID F. JAYME
PHONE NUMBER: (217) 465-4181

CONTRACT NO. 70E49



Signature 11/13/21
ILLINOIS PROFESSIONAL NO. 56816
(Expires 11/30/21)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 11/19/21
Kenala Sharnett
REGIONAL ENGINEER

March 19, 2021
Jason W. Stults
ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2021
James J. Gu
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**


INDEX OF SHEETS

SHEET NO.	DESCRIPTION
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2	INDEX OF SHEETS AND HIGHWAY STANDARDS
3	GENERAL NOTES AND COMMITMENTS
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34 - 36	WIDTH RESTRICTION SIGNING DETAILS
37 - 59	BRIDGE REPAIRS SN 057-0203

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-09	PAVEMENT JOINTS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442201-03	CLASS C AND D PATCHES
483001-05	PCC SHOULDER
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
610001-09	SHOULDER INLET WITH CURB
630001-12	STEEL PLATE BEAM GUARDRAIL
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-02	DELINEATORS
642001-02	SHOULDER RUMBLE STRIPS, 16 IN.
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24"(600 MM) FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701400-10	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, WITH BARRIER
701406-12	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND HIGHWAY STANDARDS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	2
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

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

G.N. 105.07C
EXISTING STATE-OWNED AND MAINTAINED UNDERGROUND UTILITY FACILITIES EXIST WITHIN THE ROW. THE DEPARTMENT IS NOT A MEMBER OF JULIE AND DOES NOT LOCATE IT'S OWN FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE AT THEIR OWN EXPENSE FOR SECURING AN APPROVED LOCATING FIRM TO LOCATE ALL EXISTING IDOT UNDERGROUND FACILITIES PRIOR TO COMMENCING ANY EXCAVATION, PER THE REQUIREMENTS OF ARTICLE 803 OF THE STANDARD SPECIFICATIONS. UTILITY LOCATES MAY ALSO BE REQUIRED OUTSIDE THE PROJECT LIMITS, SUCH AS FOR TRAFFIC CONTROL SIGNING AND OTHER ITEMS. THE CONTRACTOR MAY OBTAIN, ON REQUEST, PLANS OF EXISTING ELECTRICAL FACILITIES FROM THE DEPARTMENT. FOR FURTHER INFORMATION, THE CONTRACTOR MAY CONTACT THE DISTRICT TRAFFIC OPERATIONS ENGINEER, GARY SIMS, AT 217-251-4859.

G.N. 105.09A
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N. 106H
MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

Location	I-39
Mixture Use	Class D Patch
AC/PG	PG 64-22
Design Air Voids	4.0% @ Ndes=90
Mix Comp(Gradation)	IL 19.0
Friction Aggregate	N.A.
Mixture Weight	112
Quality Management Program	QC/QA
Sublot Size	N.A.

G.N. 601
THE BITUMINOUS PLUG SHOWN ON STANDARD 601001 SHALL BE CONSTRUCTED OF A BITUMINOUS MIXTURE OF 75% CA-11 AND 25% CA-16 WITH 2.8 +/- 0.2% OF ASPHALT CEMENT. THE ASPHALT CEMENT SHALL BE PG 64-22.

G.N. 601X
MATERIALS FOR PIPE DRAINS SHALL BE ONLY ITEMS (2), (3), OR (5) FROM ARTICLE 601.02 (a).

G.N. 781
THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS.

COMMITMENTS

NONE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES AND COMMITMENTS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	3
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

LOCATION OF WORK: FAI 39
RURAL
INTERSTATE
SN 057-0203
MCLEAN COUNTY

FUNDING BREAKOUT: 90% FEDERAL
10% STATE

CONSTRUCTION TYPE CODE: 0059

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RURAL
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY
20200100	EARTH EXCAVATION	CU YD	1,326	1,326
25000210	SEEDING, CLASS 2A	ACRE	0.5	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	35	35
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	35	35
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	35	35
25100630	EROSION CONTROL BLANKET	SQ YD	1,882	1,882
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	39	39
28000500	INLET AND PIPE PROTECTION	EACH	2	2
28100107	STONE RIPRAP, CLASS A4	SQ YD	109	109
28100109	STONE RIPRAP, CLASS A5	SQ YD	1,456	1,456
28200200	FILTER FABRIC	SQ YD	1,565	1,565
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	2,792	2,792
31200100	STABILIZED SUBBASE 4"	SQ YD	400	400
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	17	17

* DENOTES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	2,224	2,224
42001300	PROTECTIVE COAT	SQ YD	2,224	2,224
44000100	PAVEMENT REMOVAL	SQ YD	463	463
44004250	PAVED SHOULDER REMOVAL	SQ YD	2,640	2,640
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	117	117
44213200	SAW CUTS	FOOT	1,188	1,188
48101200	AGGREGATE SHOULDERS, TYPE B	TON	231	231
48300500	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SQ YD	2,640	2,640
48301000	PROTECTIVE COAT	SQ YD	2,640	2,640
50102400	CONCRETE REMOVAL	CU YD	46.1	46.1
50105220	PIPE CULVERT REMOVAL	FOOT	18	18
50300225	CONCRETE STRUCTURES	CU YD	89.4	89.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	43.3	43.3
50300300	PROTECTIVE COAT	SQ YD	4,858	4,858

* DENOTES SPECIALTY ITEM

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**STATE OF ILLINOIS
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SUMMARY OF QUANTITIES

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39	(57-4B-1)BR	MCLEAN	59	4
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	269.7	269.7
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	21,880	21,880
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	72,650	72,650
50800515	BAR SPLICERS	EACH	496	496
52000110	PREFORMED JOINT STRIP SEAL	FOOT	267	267
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	11	11
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	11	11
52100520	ANCHOR BOLTS, 1"	EACH	44	44
54210190	PIPE ELBOW, 30"	EACH	4	4
54213447	END SECTIONS 12"	EACH	2	2
54213465	END SECTIONS 30"	EACH	2	2
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	100	100
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4
60100945	PIPE DRAINS 12"	FOOT	20	20

* DENOTES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY
60101105	PIPE DRAINS 30"	FOOT	386	386
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	240	240
60500060	REMOVING INLETS	EACH	2	2
60600605	CONCRETE CURB, TYPE B	FOOT	219	219
61000050	CONCRETE THRUST BLOCKS	EACH	2	2
61000225	TYPE F INLET BOX, STANDARD 610001	EACH	4	4
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	875	875
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	1,038	1,038
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	2,389	2,389
67000500	ENGINEERS FIELD OFFICE, TYPE B	CAL MO	12	12
67100100	MOBILIZATION	L SUM	1	1
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2	2

* DENOTES SPECIALTY ITEM

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SUMMARY OF QUANTITIES

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY
70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	2	2
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	80	80
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	4,583	4,583
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	20	20
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,925	1,925
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,925	1,925
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
* 78008330	POLYUREA PAVEMENT MARKING TYPE II - LINE 6"	FOOT	4,948	4,948
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	24	24
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	18	18
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	24	24
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	48	48

* DENOTES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	QUANTITY
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	3,841	3,841
X6650208	WOVEN WIRE FENCE REMOVAL AND REPLACEMENT	FOOT	263	263
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1
* X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	4,948	4,948
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	22	22
Z0001903	STRUCTURAL STEEL REMOVAL	POUND	18,640	18,640
Z0001905	STRUCTURAL STEEL REPAIR	POUND	25,830	25,830
Z0004552	APPROACH SLAB REMOVAL	SQ YD	1,978	1,978
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	4,090	4,090
Z0012166	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 3/4"	SQ YD	4,090	4,090
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	115	115
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	30	30
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	11	11

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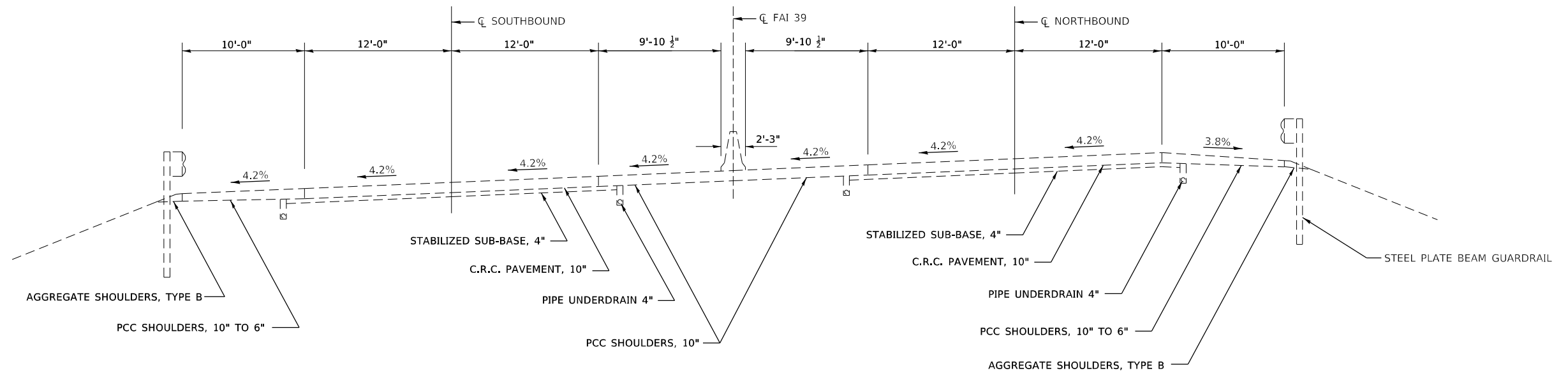
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LEGEND

① - POLYUREA PAVEMENT MARKING TYE II - LINE 6"

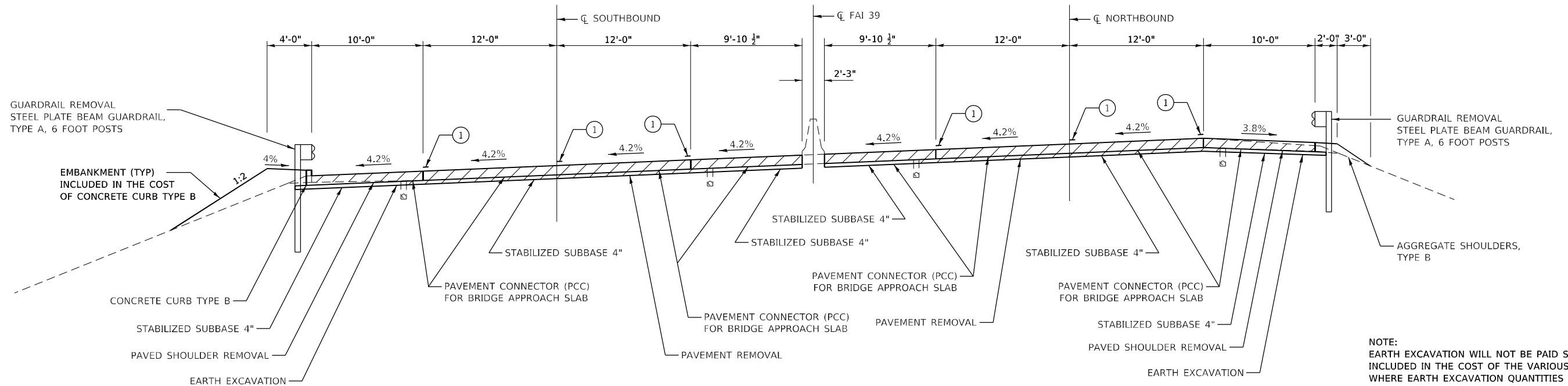
EXISTING TYPICAL SECTION F.A.I. 39

SB STA 549+81.00 TO STA 557+16.00 NB STA 549+39.00 TO STA 556+62.00
 BRIDGE AND APPROACH PAVEMENT OMISSION BRIDGE AND APPROACH PAVEMENT OMISSION
 SB STA 550+31.50 TO STA 556+66.63 NB STA 550+88.47 TO STA 556+13.71



PROPOSED TYPICAL SECTION F.A.I. 39

SB STA 549+81.00 TO STA 557+16.00 NB STA 549+39.00 TO STA 556+62.00
 BRIDGE AND APPROACH PAVEMENT OMISSION BRIDGE AND APPROACH PAVEMENT OMISSION
 SB STA 551+05.26 TO STA 555+97.89 NB STA 550+62.60 TO STA 555+44.35



NOTE:
 EARTH EXCAVATION WILL NOT BE PAID SEPERATELY , BUT INCLUDED IN THE COST OF THE VARIOUS PAY ITEMS EXCEPT WHERE EARTH EXCAVATION QUANTITIES ARE INCLUDED IN THE PLANS AND SPECIFICATIONS.

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TYPICAL SECTIONS

SHEET OF SHEETS

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39	(57-3B-1)BDS	McLEAN	59	8
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ILLINOIS		FED. AID PROJECT		

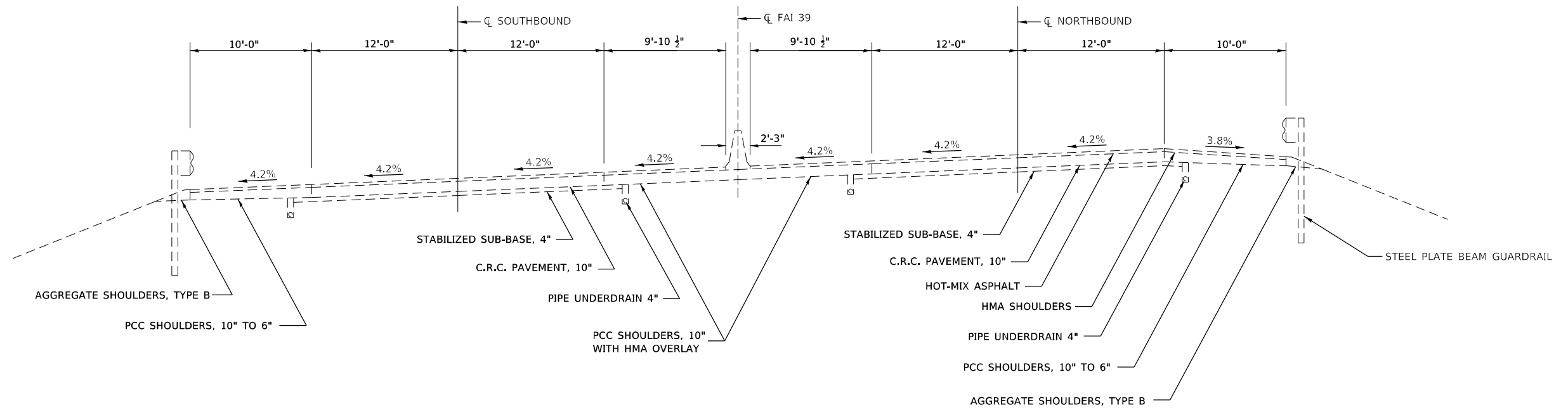
LEGEND

① - POLYUREA PAVEMENT MARKING TYE II - LINE 6"

EXISTING TYPICAL SECTION F.A.I. 39

SB O.S. STA 547+67.46 TO STA 549+81.00
 SB MEDIAN STA 547+96.20 TO STA 549+81.00
 SB O.S. STA 557+16.00 TO STA 559+31.35
 SB MEDIAN STA 557+16.00 TO 559+31.75

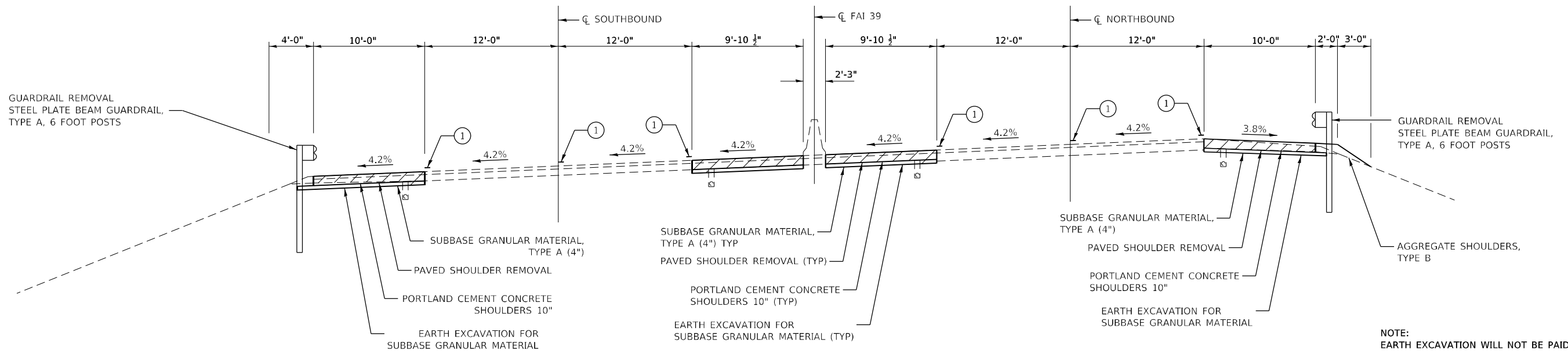
NB O.S. STA 547+27.88 TO STA 549+39.00
 NB MEDIAN STA 547+27.49 TO STA 549+39.00
 NB O.S. STA 556+62.00 TO STA 558+68.63
 NB MEDIAN STA 556+62.00 TO 558+69.79



PROPOSED TYPICAL SECTION F.A.I. 39

SB O.S. STA 547+67.46 TO STA 549+81.00
 SB MEDIAN STA 547+96.20 TO STA 549+81.00
 SB O.S. STA 557+16.00 TO STA 559+31.35
 SB MEDIAN STA 557+16.00 TO 559+31.75

NB O.S. STA 547+27.88 TO STA 549+39.00
 NB MEDIAN STA 547+27.49 TO STA 549+39.00
 NB O.S. STA 556+62.00 TO STA 558+68.63
 NB MEDIAN STA 556+62.00 TO 558+69.79



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**STATE OF ILLINOIS
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TYPICAL SECTIONS

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39	(57-3B-1)BDS	McLEAN	59	9
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		ILLINOIS	FED. AID PROJECT	

EARTHWORK		20200100			
LOCATION	EXCAVATION CU YD	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT CU YD	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	
DRAINAGE IMPROVEMENT					
STA 550+00.00 TO STA 552+12.37	536	402	7	395	
STA 553+35.58 TO STA 556+00.00	790	593	0	593	
TOTAL	1,326	995	7	988	

SHRINKAGE = 25%

28000250 TEMPORARY EROSION CONTROL SEEDING

LOCATION	POUND
SOUTHBOUND	
STA 551+58.70 TO STA 549+87.00	32
STA 557+10.00 TO STA 555+87.58	7
TOTAL	39

28000500 INLET AND PIPE PROTECTION

LOCATION	EACH
NORTHBOUND	
RT STA 550+00	1
RT STA 555+50	1
TOTAL	2

28100107 STONE RIPRAP, CLASS A4

LOCATION	SQ YD
SOUTHBOUND	
LT STA 551+15.38	85.3
LT STA 556+29.07	23.3
TOTAL	108.7
USE	109

28100109 STONE RIPRAP, CLASS A5

LOCATION	SQ YD
NORTHBOUND	
RT STA 550+00.00 TO STA 551+70.51	569.7
RT STA 551+74.61 TO STA 552+15.94	77.1
RT STA 553+31.78 TO STA 556+50.00	809.4
TOTAL	1,456.2
USE	1,456

28200200 FILTER FABRIC

LOCATION	SQ YD
NORTHBOUND	
RT STA 550+00.00 TO STA 551+70.51	569.7
RT STA 551+74.61 TO STA 552+15.94	77.1
RT STA 553+31.78 TO STA 556+50.00	809.4
SOUTHBOUND	
LT STA 551+15.38	85.3
LT STA 556+29.07	23.3
TOTAL	1,564.9
USE	1,565

LANDSCAPING	SEEDING, CLASS 2A	EROSION CONTROL BLANKET	NITROGEN FERTILIZER NUTRIENT	NITROGEN FERTILIZER NUTRIENT	NITROGEN FERTILIZER NUTRIENT
SOUTHBOUND					
LT STA 549+87.00 STA 551+58.70	0.32	1,526.2	28.4	28.4	28.4
LT STA 555+87.58 STA 557+10.00	0.07	340.1	6.3	6.3	6.3
LT STA 549+41.00	0.01	4.0	0.1	0.1	0.1
LT STA 556+16.00	0.01	4.0	0.1	0.1	0.1
NORTHBOUND					
RT STA. 549+83.00	0.01	4.0	0.1	0.1	0.1
RT STA. 557+12.00	0.01	4.0	0.1	0.1	0.1
TOTAL	0.43	1882.3	35.1	35.1	35.1
USE	0.5	1,882	35	35	35

LOCATION	63000001	63100045	63100085	63200310	78200005
	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 2	TRAFFIC BARRIER TERMINAL, TYPE 6	GUARDRAIL REMOVAL	GUARDRAIL REFLECTORS, TYPE A
	FOOT	FACH	FACH	FOOT	EACH
NORTHBOUND					
STA 547+27 TO STA 550+17	287.5			287.5	5
STA 550+17 TO STA 550+54			1	37.5	
SOUTHBOUND					
STA 555+04 TO STA 555+41			1	37.5	
STA 555+41 TO STA 556+41	100.0			100.0	4
STA 556+41 TO STA 556+54		1		12.5	
SOUTHBOUND					
STA 547+67 TO STA 551+01	337.5			337.5	5
STA 551+01 TO STA 551+39			1	37.5	
SOUTHBOUND					
STA 556+09 TO STA 556+46			1	37.5	
STA 556+46 TO STA 557+98	150.0			150.0	4
TOTAL	875	1	4	1,038	18

LOCATION	70400100	70400200
	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER
	FOOT	FOOT
NORTHBOUND		
STAGE 1		
STA. 547+27.95 TO STA. 549+14.15	187.5	
STA. 549+14.15 TO STA. 556+88.92	775.0	
SOUTHBOUND		
STAGE 1		
STA. 549+55.85 TO STA. 557+43.36	187.5	
STA. 557+43.36 TO STA. 559+31.08	775.0	
NORTHBOUND		
STAGE 2		
STA. 547+28.47 TO STA. 549+14.19		187.5
STA. 549+14.19 TO STA. 556+89.08		775.0
SOUTHBOUND		
STAGE 2		
STA. 549+55.88 TO STA. 557+43.44		187.5
STA. 557+43.44 TO STA. 559+31.64		775.0
TOTAL	1,925	1,925

LOCATION	70600250	70600350
	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3
	EACH	EACH
NORTHBOUND		
STAGE 1		
STA. 547+27.95	1	
STAGE 2		
STA. 547+28.47		1
SOUTHBOUND		
STAGE 1		
STA. 559+31.08	1	
STAGE 2		
STA. 559+31.64		1
TOTAL	2	2

LOCATION	78100100	78300200
	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
	ONE-WAY CRYSTAL	
	EACH	EACH
NORTHBOUND		
STA 549+39.00 TO STA. 550+62.60	6	6
STA 555+44.35 TO STA. 556+62.00	6	6
SOUTHBOUND		
STA 549+81.00 TO STA. 551+05.26	6	6
STA 555+97.89 TO STA. 557+16.00	6	6
TOTAL	24	24

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DRAWN - TEC
CHECKED - CGF
DATE - 1/4/2021

REVISED -
REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	10
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				

LOCATION	78008330		X7830074	70107005
	POLYUREA PAVE MARK TYPE II - LINE 6"		GROOVING FOR RECESSED PAVEMENT MARKING 7"	PAVEMENT MARKING BLACKOUT TAPE, 5"
	WHITE	YELLOW		
	FOOT	FOOT	FOOT	FOOT
NORTHBOUND				
SOLID WHITE EDGE LINE				
STA 547+27 TO STA 558+69	1,142		1,142	1,142
SOLID YELLOW EDGE LINE				
STA 547+27 TO STA 558+69		1,142	1,142	1,142
WHITE SKIP DASH				
STA 549+39 TO STA 556+62	181		181	
SOUTHBOUND				
SOLID WHITE EDGE LINE				
STA 547+67 TO STA 559+31	1,164		1,164	1,154
SOLID YELLOW EDGE LINE				
STA 547+96 TO STA 559+31		1,135	1,135	1,135
WHITE SKIP DASH				
STA 549+81 TO STA 557+16	184		184	
SUBTOTAL	2,671	2,277	4,948	4,583
TOTAL	4,948		4,948	4,583

LOCATION	31200100
	STABILIZED SUBBASE 4"
	SQ YD
NORTHBOUND	
STA 550+42.60 TO STA. 550+62.60	100
STA 555+44.35 TO STA. 555+64.35	100
SOUTHBOUND	
STA 550+85.26 TO STA. 551+05.26	100
STA 555+97.89 TO STA. 556+17.89	100
TOTAL	400

LOCATION	42000080	42001300
	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	PROTECTIVE COAT
	SQ YD	SQ YD
NORTHBOUND		
STA 549+45.00 TO STA. 550+59.49	561	561
STA 555+44.35 TO STA. 556+56.00	548	548
SOUTHBOUND		
STA 549+87.00 TO STA. 551+02.08	566	566
STA 555+97.89 TO STA. 557+10.00	548	548
TOTAL	2,224	2,224

LOCATION	40200800
	AGGREGATE SURFACE COURSE, TYPE B
	TON
ACCESS ROAD	
STA 290+67.03	17
TOTAL	17

LOCATION	LENGTH	WIDTH	44201765
			CLASS D PATCHES TYPE II, 10 INCH
	FOOT	FOOT	SQ YD
NORTHBOUND			
STA 549+39.00 TO STA. 549+45.00	6.0	43.88	29.3
STA 556+14.00 TO STA. 556+20.00	6.0	43.88	29.3
SOUTHBOUND			
STA 549+81.00 TO STA. 549+87.00	6.0	43.88	29.3
STA 557+10.00 TO STA. 557+16.00	6.0	43.88	29.3
TOTAL			117.0
USE			117

LOCATION	31100300	44213200	48300500	64200116	48301000	44004250
	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SAW CUTS	PORTLAND CEMENT CONCRETE SHOULDERS 10"	SHOULDER RUMBLE STRIPS, 16 INCH	PROTECTIVE COAT	PAVED SHOULDER REMOVAL
	SQ YD	FOOT	SQ YD	FOOT	SQ YD	SQ YD
NORTHBOUND OUTSIDE SHOULDER						
STA 547+27.88 TO STA. 550+51.05	395.0	161.6	359.1	323	359.1	359.1
STA 555+07.92 TO STA. 558+68.63	440.9	180.4	400.8	361	400.8	400.8
NORTHBOUND MEDIAN SHOULDER						
STA 547+27.49 TO STA. 549+88.33	286.2	128.8	286.2	261	286.2	286.2
STA 556+14.12 TO STA. 558+69.79	280.5	126.2	280.5	256	280.5	280.5
SOUTHBOUND OUTSIDE SHOULDER						
STA 547+67.46 TO STA. 551+35.21	449.5	183.9	408.6	368	408.6	408.6
STA 556+11.58 TO STA. 559+31.35	390.8	159.9	355.3	320	355.3	355.3
SOUTHBOUND MEDIAN SHOULDER						
STA 547+96.20 TO STA. 550+31.64	258.3	116.2	258.3	235	258.3	258.3
STA 556+66.46 TO STA. 559+31.75	291.1	131.0	291.1	265	291.1	291.1
TOTAL	2,792	1,188	2,640	2,389	2,640	2,640

LOCATION	48101200
	AGGREGATE SHOULDERS, TYPE B
	TON
NORTHBOUND	
STA 547+27.88 TO STA. 550+41.61	65.5
STA 555+18.10 TO STA. 558+68.63	73.2
SOUTHBOUND	
STA 547+67.46 TO STA. 549+87.00	45.8
STA 557+10.00 TO STA. 559+31.35	46.2
TOTAL	230.8
USE	231

LOCATION	44000100
	PAVEMENT REMOVAL
	SQ YD
NORTHBOUND	
STA 549+45.00 TO STA. 549+88.33	116.5
STA 556+14.12 TO STA. 556+56.00	113.4
SOUTHBOUND	
STA 549+87.00 TO STA. 550+31.64	118.0
STA 556+66.46 TO STA. 557+10.00	115.0
TOTAL	463.0
USE	463

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DESIGNED - TEC
 DRAWN - TEC
 CHECKED - CGF
 DATE - 1/4/2021

REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	11
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				

LOCATION	50105220
	PIPE CULVERT REMOVAL FOOT
ACCESS RD UNDER SN 057-0203 RT STA. 551+68.65 TO STA. 551+85.53	18
TOTAL	18
USE	18

LOCATION	60100945
	PIPE DRAINS 12" FOOT
SOUTHBOUND LT STA. 551+11.46	10
SOUTHBOUND LT STA. 556+29.07	10
TOTAL	20

LOCATION	61000050
	CONCRETE THRUST BLOCKS EACH
SOUTH APPROACH DRAINAGE STA 551+45	1
NORTH APPROACH DRAINAGE STA 554+16	1
TOTAL	2

LOCATION	70100205	70100207
	TRAFFIC CONTROL AND PROTECTION STANDARD 701401	TRAFFIC CONTROL AND PROTECTION STANDARD 701402
NORTHBOUND	1	1
SOUTHBOUND	1	1
TOTAL	2	2

LOCATION	54210190
	PIPE ELBOW, 30" EACH
SOUTH APPROACH DRAINAGE STA 550+12 SKEW 12^ STA 551+45 SKEW 14^	1
NORTH APPROACH DRAINAGE STA 554+16 SKEW 16^ STA 555+40 SKEW 16^	1
TOTAL	4

LOCATION	60101105
	PIPE DRAINS 30" FOOT
SOUTH APPROACH DRAINAGE STA 550+00.00 TO STA. 551+91.16 10' + 136' + 46'	192
NORTH APPROACH DRAINAGE STA 553+62.04 TO STA. 550+50.00 54' + 130' + 10'	194
TOTAL	386

LOCATION	61000225
	TYPE F INLET BOX, STANDARD 610001 EACH
NORTHBOUND LT STA. 550+00.35 LT STA. 556+99.27	1
SOUTHBOUND LT STA. 551+11.46 LT STA. 556+29.07	1
TOTAL	4

LOCATION	70100700	67000500	67100100
	TRAFFIC CONTROL AND PROTECTION STANDARD 701406 L SUM	ENGINEER'S FIELD OFFICE, TYPE B CAL MO	MOBILIZATION L SUM
JOBSITE	1	12	1
TOTAL	1	12	1

LOCATION	54213447
	END SECTIONS 12" EACH
SOUTHBOUND LT STA. 551+11.46	1
SOUTHBOUND LT STA. 556+29.07	1
TOTAL	2

LOCATION	OFFSET	60500060
		REMOVING INLETS EACH
NORTHBOUND STA. 550+00.35 STA 556+99.27	2.9' RT	1
TOTAL		2

LOCATION	Z0004552
	APPROACH SLAB REMOVAL SQ YD
NORTHBOUND STA 549+88.33 TO STA. 551+09.93 STA 554+88.63 TO STA. 556+14.12	497.0
SOUTHBOUND STA 550+31.64 TO STA. 551+55.05 STA 554+88.63 TO STA. 556+14.12	493.2
TOTAL	1978.1
USE	1,978

LOCATION	70103815	70107025	X7200201
	TRAFFIC CONTROL SURVEILLANCE CAL DA	CHANGEABLE MESSAGE SIGN CAL DA	WIDTH RESTRICTION SIGNING L SUM
JOBSITE	80	20	1
TOTAL	80	20	1

LOCATION	54213465
	END SECTIONS 30" EACH
SOUTH APPROACH DRAINAGE STA 550+00	1
NORTH APPROACH DRAINAGE STA 555+50	1
TOTAL	2

LOCATION	60500305
	FILLING INLETS EACH
NORTHBOUND LT STA. 550+00.35	1
NORTHBOUND LT STA. 556+99.27	1
TOTAL	2

LOCATION	X2700001
	TEMPORARY RUMBLE STRIPS EACH
NORTHBOUND DRIVING LANE PASSING LANE	12
SOUTHBOUND DRIVING LANE PASSING LANE	12
TOTAL	48

LOCATION	X6650208
	WOVEN WIRE FENCE REMOVAL AND REPLACEMENT FOOT
NORTHBOUND STA 550+02.10 TO STA. 550+53.70 STA 555+04.43 TO STA. 555+21.44	64
SOUTHBOUND STA 551+33.66 TO STA. 551+38.66 STA 556+08.28 TO STA. 556+60.15	114
TOTAL	263

LOCATION	59300100
	CONTROLLED LOW-STRENGTH MATERIAL CU YD
SOUTH APPROACH DRAINAGE STA 550+00.00 TO STA. 552+15.00	50
NORTH APPROACH DRAINAGE STA 553+31.00 TO STA. 556+50.00	50
TOTAL	100

LOCATION	60600605
	CONCRETE CURB, TYPE B FOOT
SOUTHBOUND LT STA. 549+87.00 TO STA. 551+27.08 LT STA. 556+24.78 TO STA. 557+10.00	135.0
TOTAL	219.3
USE	219

LOCATION	60100060	60108100
	CONCRETE HEADWALLS FOR PIPE DRAINS EACH	PIPE UNDERDRAINS 4" (SPECIAL) FOOT
SOUTHBOUND STA 549+41 STA 556+16	1	60
NORTHBOUND STA 549+83 STA 557+12	1	60
TOTAL	4	240

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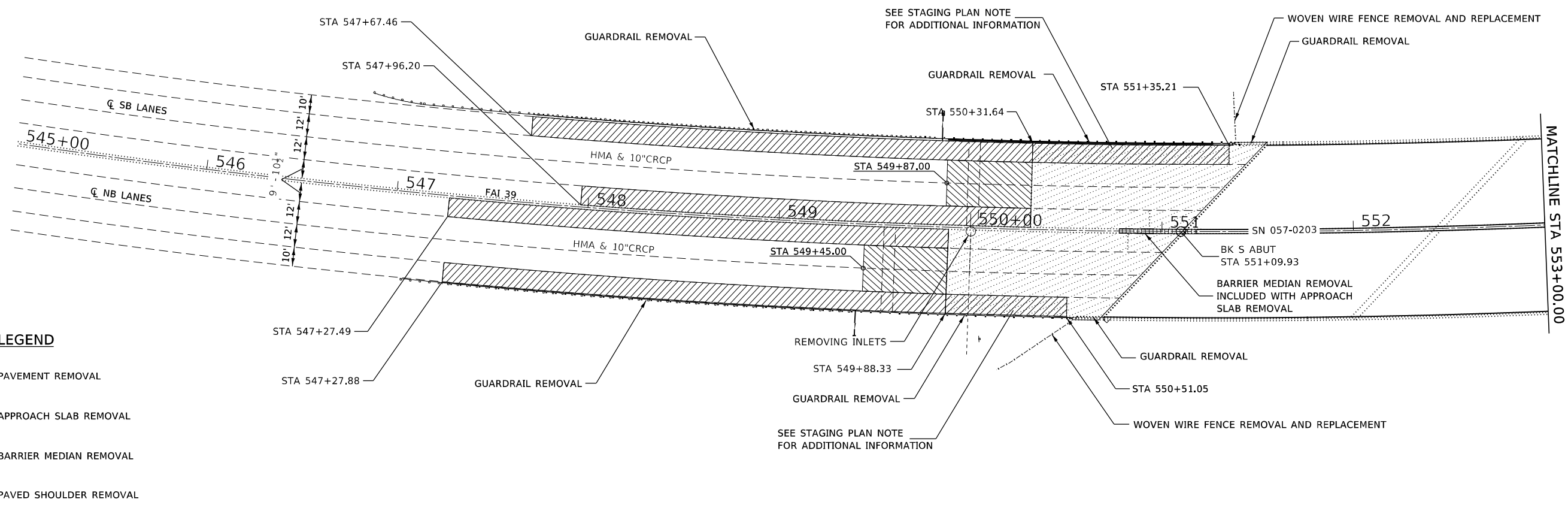
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

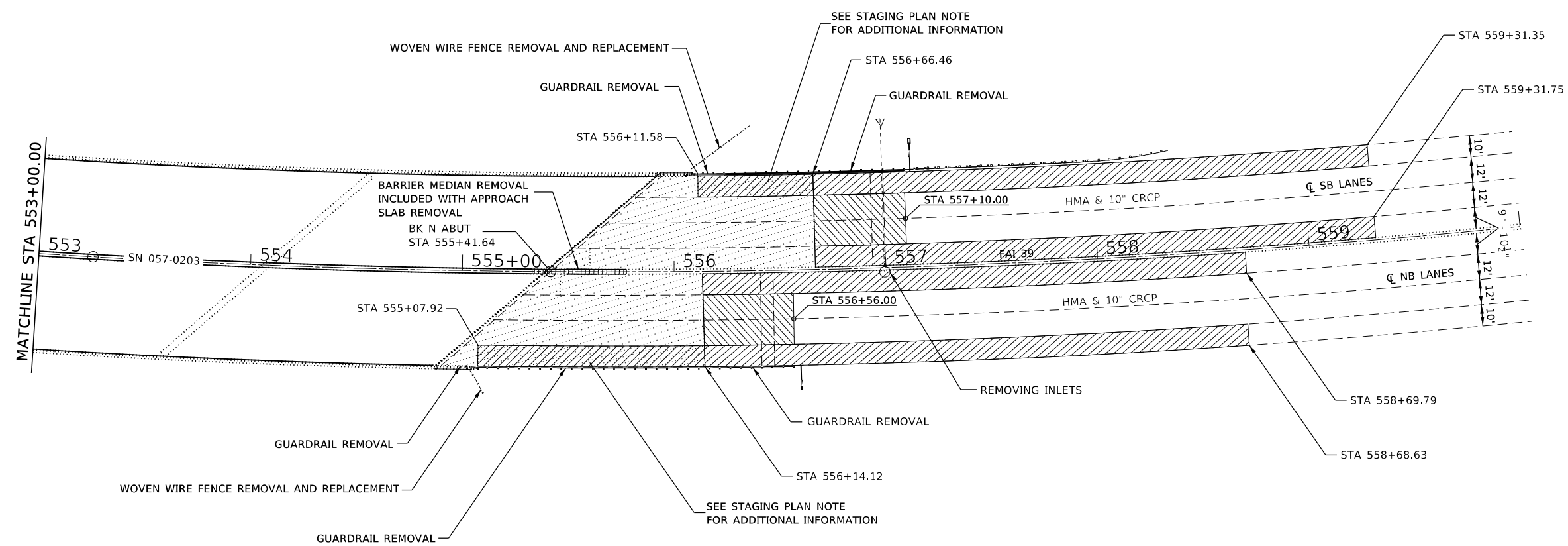
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	12
CONTRACT NO. 70E49				
ILLINOIS		FED. AID PROJECT		



LEGEND

	PAVEMENT REMOVAL
	APPROACH SLAB REMOVAL
	BARRIER MEDIAN REMOVAL
	PAVED SHOULDER REMOVAL



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CEC Cummins
 Engineering
 Corporation
 Civil and Structural Engineering

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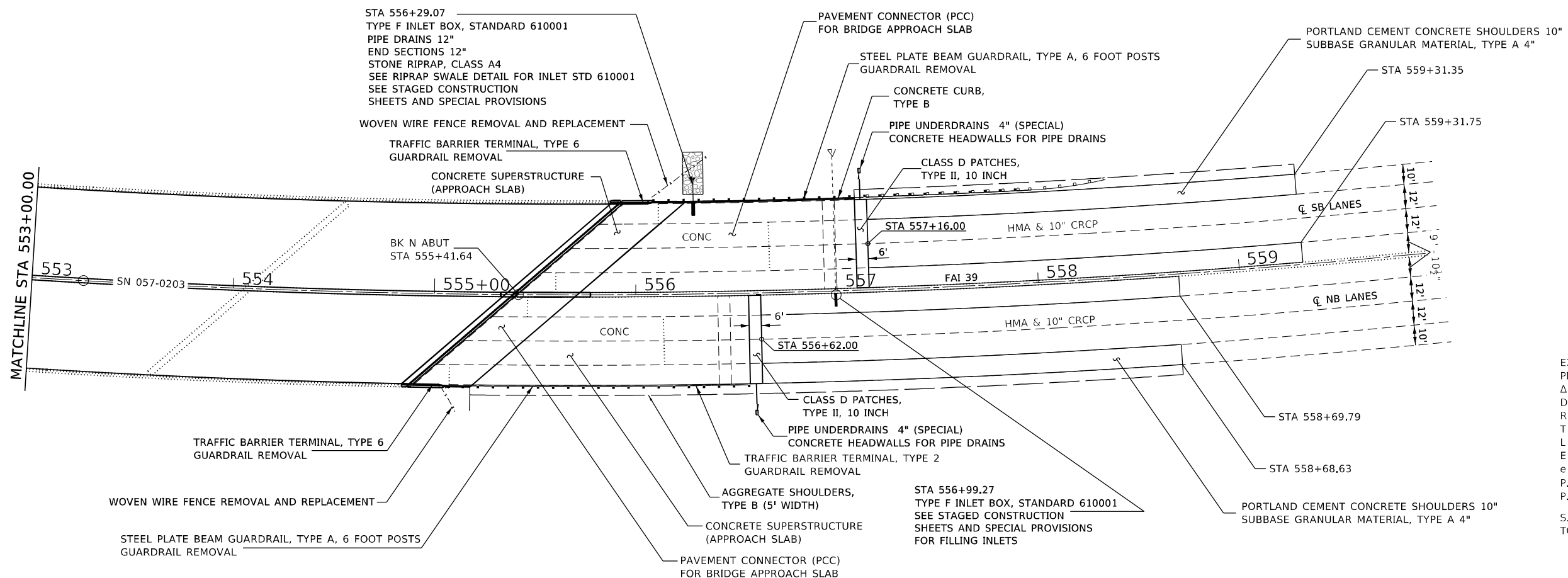
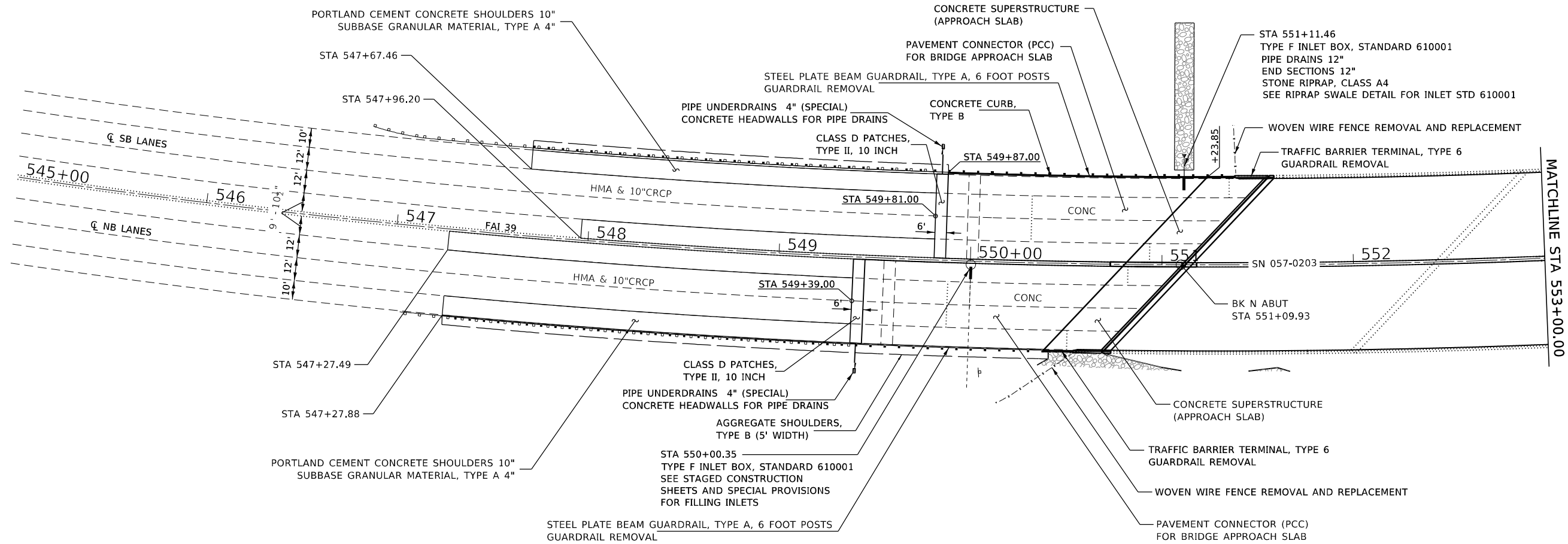
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-39 REMOVAL SHEET
SN 057-0203

SCALE: 1" = 30' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	13
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				



EXIST. CURVE MEYCURV65
 PI STA. = 558+06.62
 $\Delta = 44^{\circ} 49' 39''$ (LT)
 $D = 1^{\circ} 19' 58''$
 $R = 4,298.90'$
 $T = 1,773.09'$
 $L = 3,363.41'$
 $E = 351.30'$
 $e = 4.2\%$
 P.C. STA. = 540+33.53
 P.T. STA. = 573+96.94
 S.E. TRANS. FROM STA 537+18.59
 TO 541+91.09

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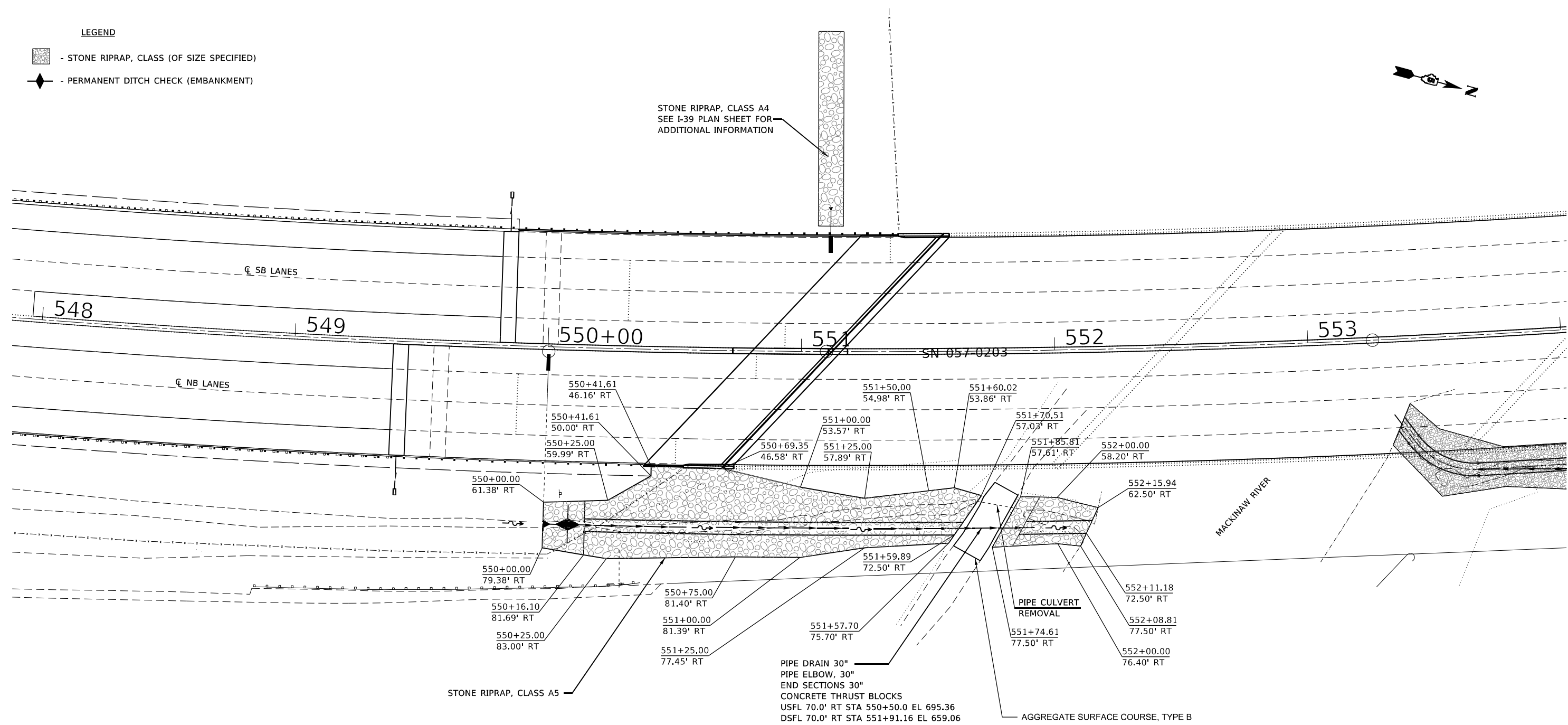
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PLOT DATE = 1/28/2021	DATE - 1/4/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

I-39 PLAN SHEET		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SN 057-0203		39	(57-4B-1)BR	MCLEAN	59	14
SCALE: 1" = 30'		SHEET OF SHEETS		STA.	TO STA.	
CONTRACT NO. 70E49						
ILLINOIS FED. AID PROJECT						

LEGEND

-  - STONE RIPRAP, CLASS (OF SIZE SPECIFIED)
-  - PERMANENT DITCH CHECK (EMBANKMENT)



STONE RIPRAP, CLASS A5

PIPE DRAIN 30"
 PIPE ELBOW, 30"
 END SECTIONS 30"
 CONCRETE THRUST BLOCKS
 USFL 70.0' RT STA 550+50.0 EL 695.36
 DSFL 70.0' RT STA 551+91.16 EL 659.06

PIPE CULVERT
 REMOVAL

AGGREGATE SURFACE COURSE, TYPE B

WATERWAY INFORMATION

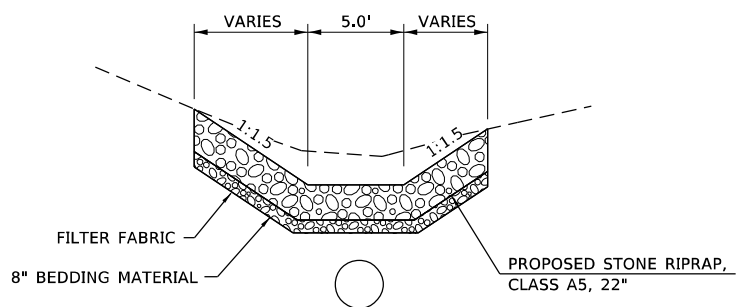
EAST DITCH S.N. 057-0203 (SOUTH APPROACH)

Drainage Area	7.0 Acres
10 year Discharge (Q10)	17 c.f.s.
50 year Design Discharge (Q50)	23 c.f.s.

DRAINAGE NOTES

1. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
2. Plan dimensions and details relative to the existing structure are subject to nominal variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.

SEE GENERAL NOTES FOR RESTRICTIONS OF THE ALLOWABLE MATERIAL OPTIONS OF PIPE DRAINS.



RIPRAP DITCH DETAIL

NOTES

EXISTING RIPRAP AND OTHER EXISTING EROSION CONTROL DEVICES WITHIN THE LIMITS OF PROPOSED CONSTRUCTION LIMITS MAY BE RELOCATED WITHIN THE JOBSITE AT THE DIRECTION OF THE RESIDENT ENGINEER PRIOR TO GRADING FOR THE PROPOSED GRADE LINES.

ONCE GRADING FOR THE PROPOSED RIPRAP IS COMPLETE, THE RESIDENT ENGINEER WILL INSPECT FOR ANY DEEP EROSION POCKETS AND DIRECT THOSE LOCATIONS TO BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL.

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

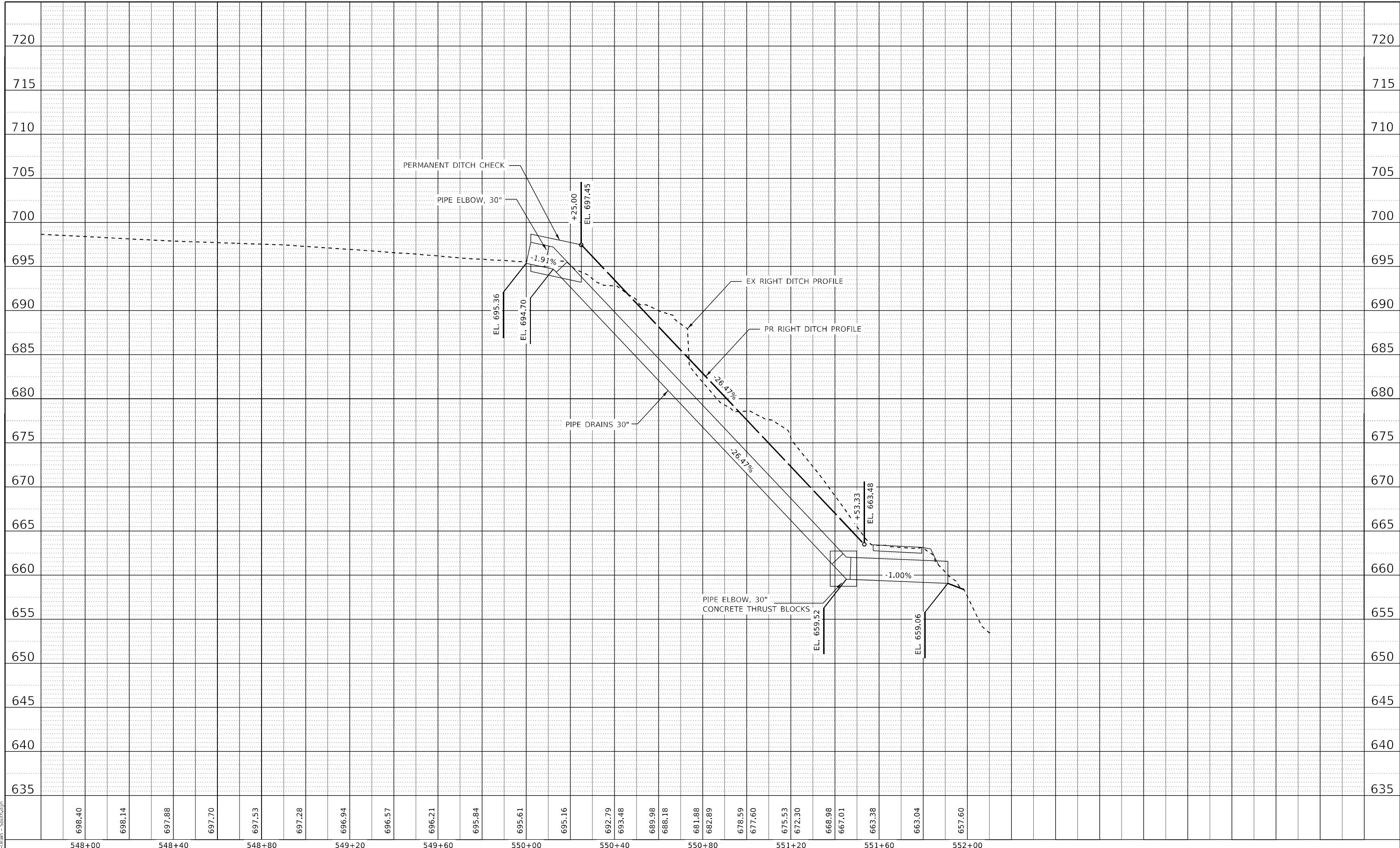
**I-39 DRAINAGE SHEET
 SOUTH APPROACH**

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	15
CONTRACT NO. 72E49				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
PROFILE	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

PLAN	SURVEYED	BY	DATE
	PLOTTED		
PROFILE	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		



MODEL: Default
FILE NAME: 0084570E49-shi-Drain - South.dgn

698.40	698.14	697.88	697.70	697.53	697.28	696.94	696.57	696.21	695.84	695.61	695.16	692.79	693.48	689.98	688.18	681.88	682.89	678.59	677.60	675.53	672.30	668.98	667.01	663.38	663.04	657.60
548+00	548+40	548+80	549+20	549+60	550+00	550+40	550+80	551+20	551+60	552+00																

CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB # 2596
FILE NAME = 0084570E49-shi-Drain - South.dgn
PLOT SCALE = 40,000' / in.
PLOT DATE = 1/13/2021

DESIGNED - TEC	REVISED -
DRAWN - TEC	REVISED -
CHECKED - CGF	REVISED -
DATE - 1/4/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-39 DRAINAGE PROFILE SHEET
SOUTH APPROACH**

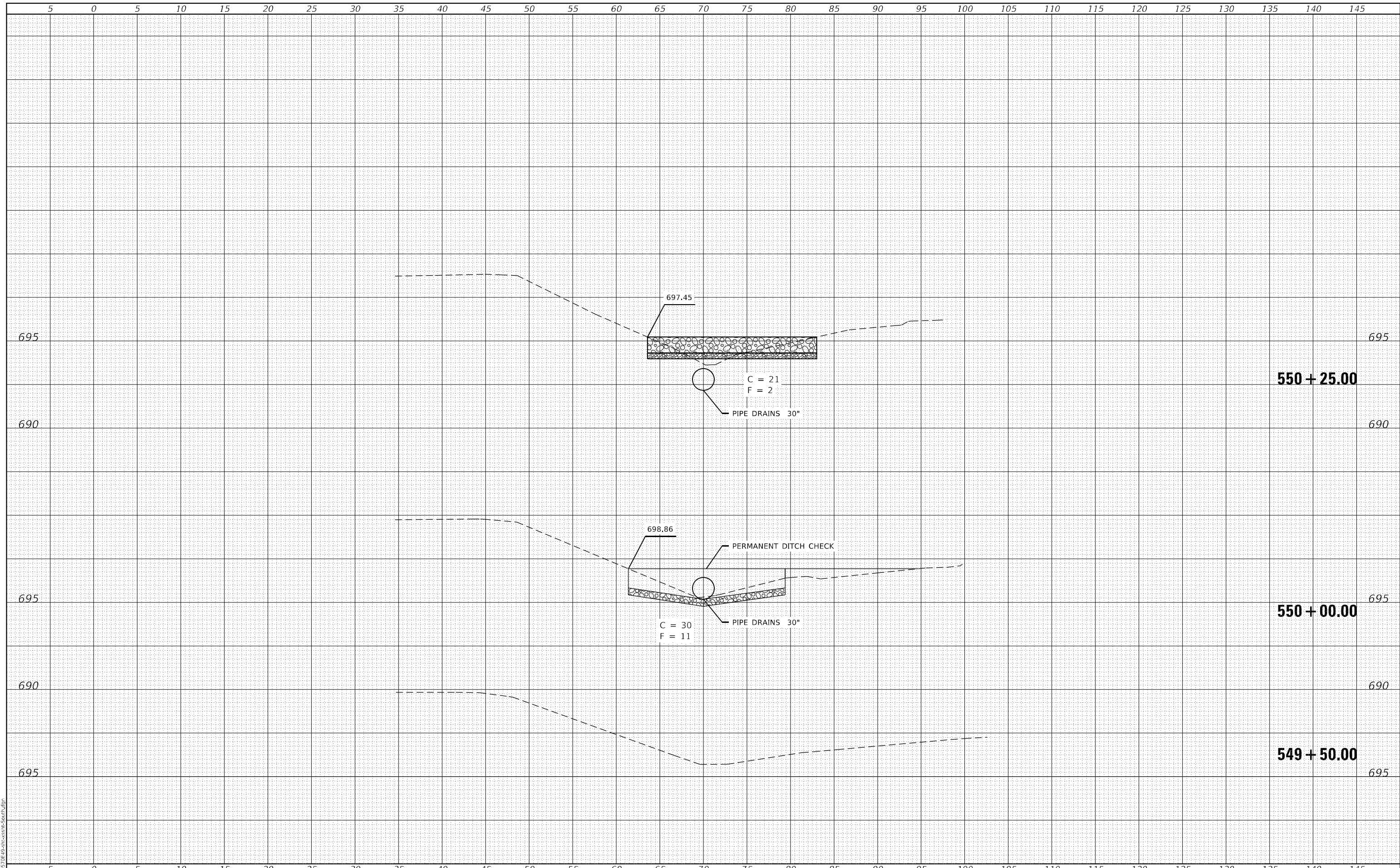
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	16
CONTRACT NO. 72E49				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS	
	CHECKED	

MODEL: Default
FILE NAME: D:\0570E49-sht-cs-south.dgn



CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2596.2	DESIGNED - TEC	REVISED -
FILE NAME = 010-D570E49-sht-cs-south.dgn	DRAWN - TEC	REVISED -
PLOT SCALE = 10,000' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 1/13/2021	DATE - 1/4/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

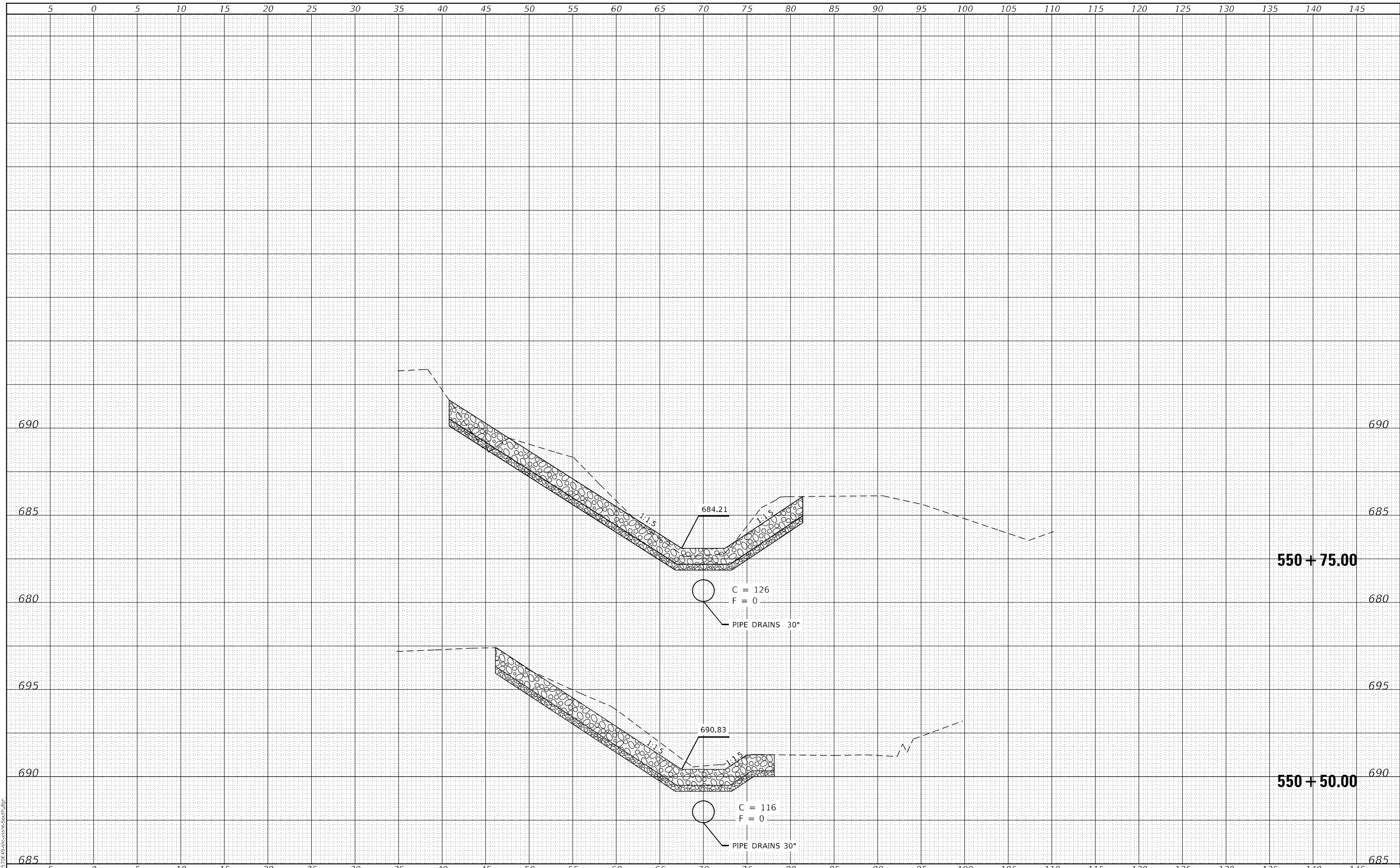
SOUTH DRAINAGE CROSS SECTIONS			
SCALE: 1" = 5'	SHEET	OF	SHEETS
			STA. 549+50.00 TO STA. 550+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	17
CONTRACT NO. 72E49				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
	CHECKED	

MODEL: Default
FILE NAME: D:\0570E49-she-ssht-South.dgn



CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2596.2
FILE NAME = 010-D570E49-she-ssht-South.dgn
PLOT SCALE = 10,0000 ' / in.
PLOT DATE = 1/13/2021

DESIGNED - TEC
DRAWN - TEC
CHECKED - CGF
DATE - 1/4/2021

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SOUTH DRAINAGE CROSS SECTIONS

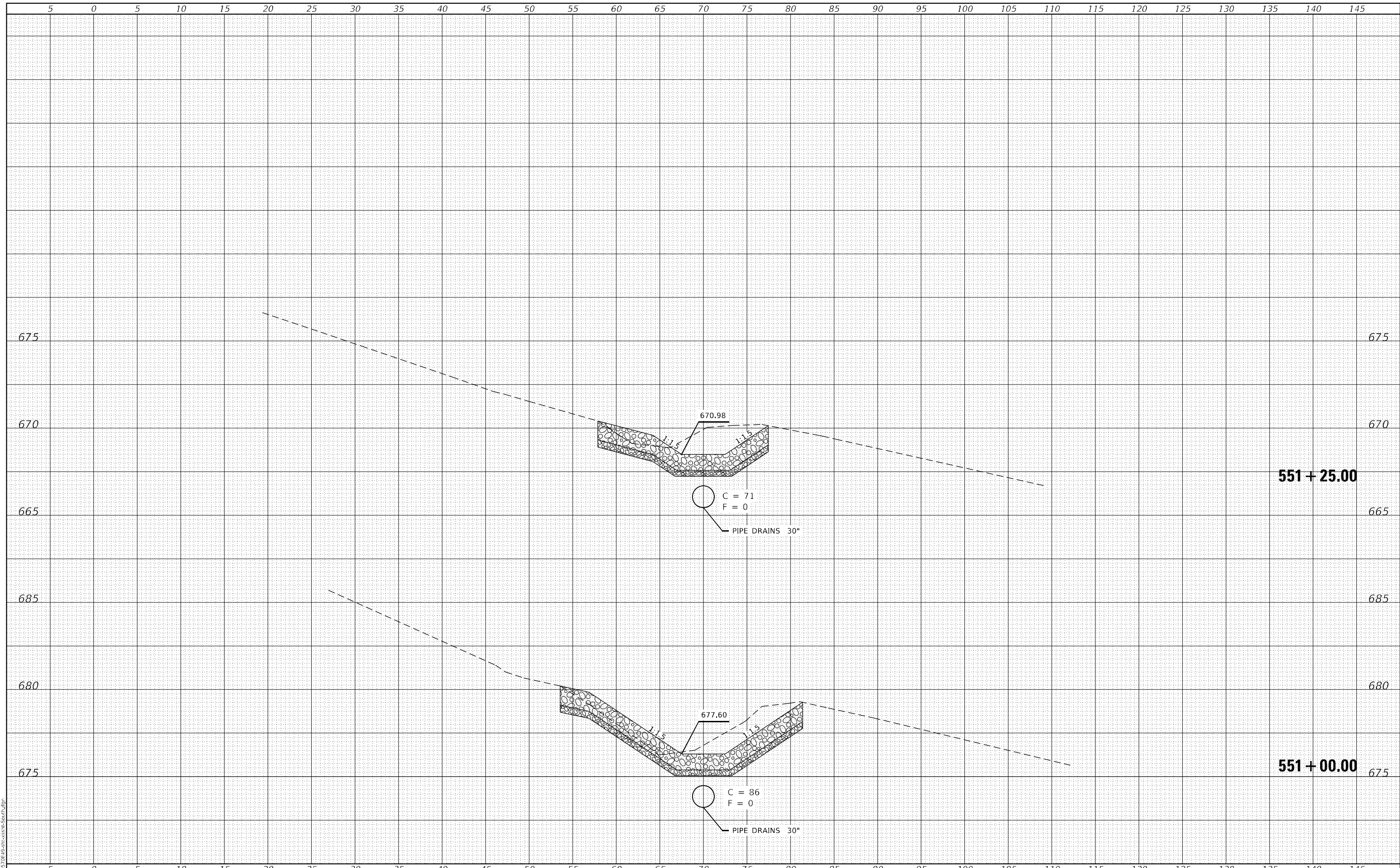
SCALE: 1" = 5' SHEET OF SHEETS STA. 550+50.00 TO STA. 550+75.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	18
CONTRACT NO. 72E49				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS	
	CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
	TEMPLATE	
	AREAS	
	CHECKED	

MODEL: Default
FILE NAME: D:\05\2021\9-48-2021\57-4B-1\South.dgn



CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2596.2
FILE NAME = 010-D570E49-she-ssht-South.dgn
PLOT SCALE = 10,000 ' / in.
PLOT DATE = 1/13/2021

DESIGNED - TEC
DRAWN - TEC
CHECKED - CGF
DATE - 1/4/2021

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

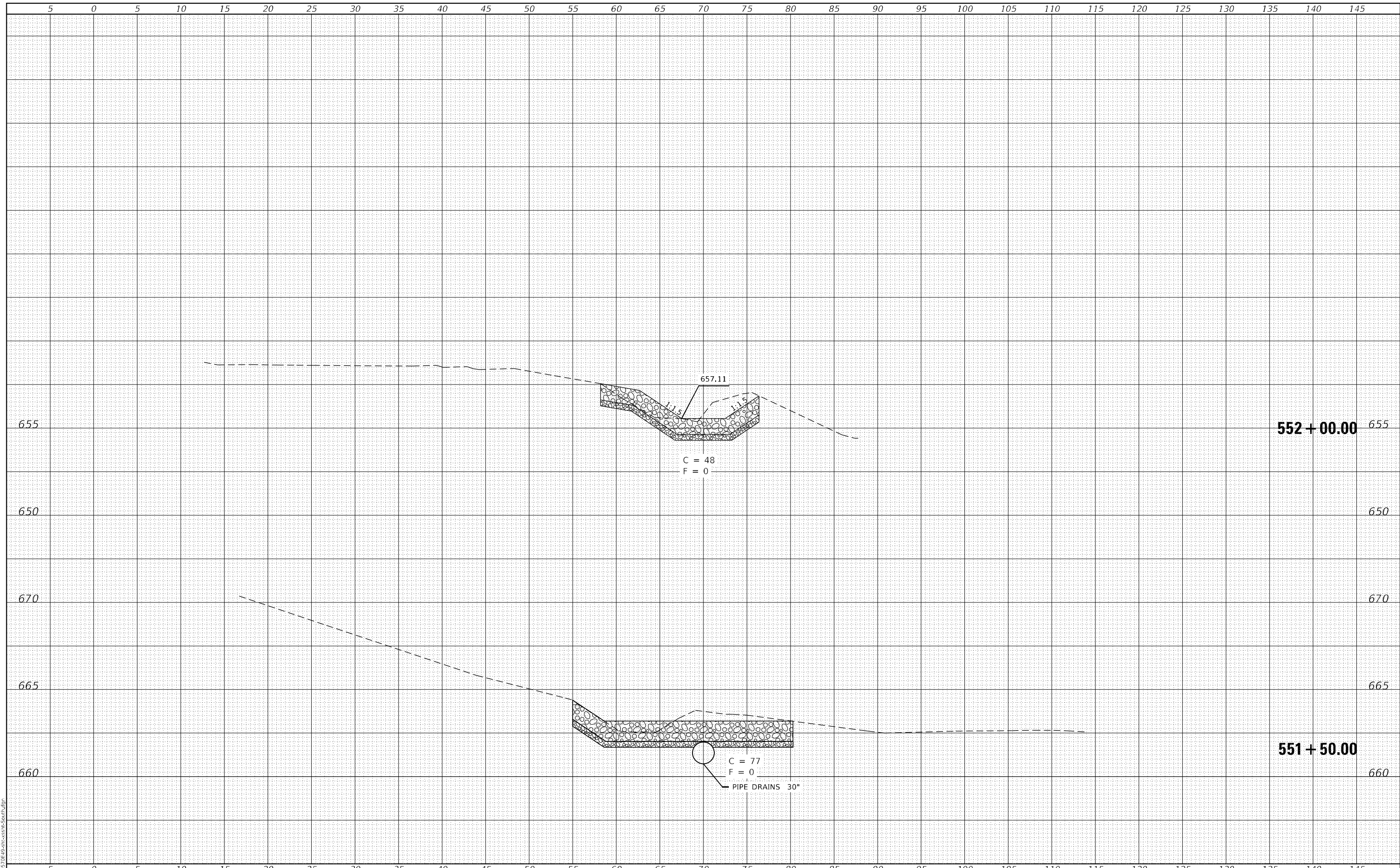
SOUTH DRAINAGE CROSS SECTIONS

SCALE: 1" = 5' SHEET OF SHEETS STA. 551+00.00 TO STA. 551+25.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	19
CONTRACT NO. 72E49				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	FLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	FLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



MODEL: Default
FILE NAME: D:\0570E49-she-ssht-South.dgn



JOB = 2596.2
FILE NAME = 010-D570E49-she-ssht-South.dgn
PLOT SCALE = 10,0000 ' / in.
PLOT DATE = 1/13/2021

DESIGNED - TEC
DRAWN - TEC
CHECKED - CGF
DATE - 1/4/2021

REVISED -
REVISED -
REVISED -
REVISED -



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH DRAINAGE CROSS SECTIONS

SCALE: 1" = 5' SHEET OF SHEETS STA. 551+50.00 TO STA. 552+00.00

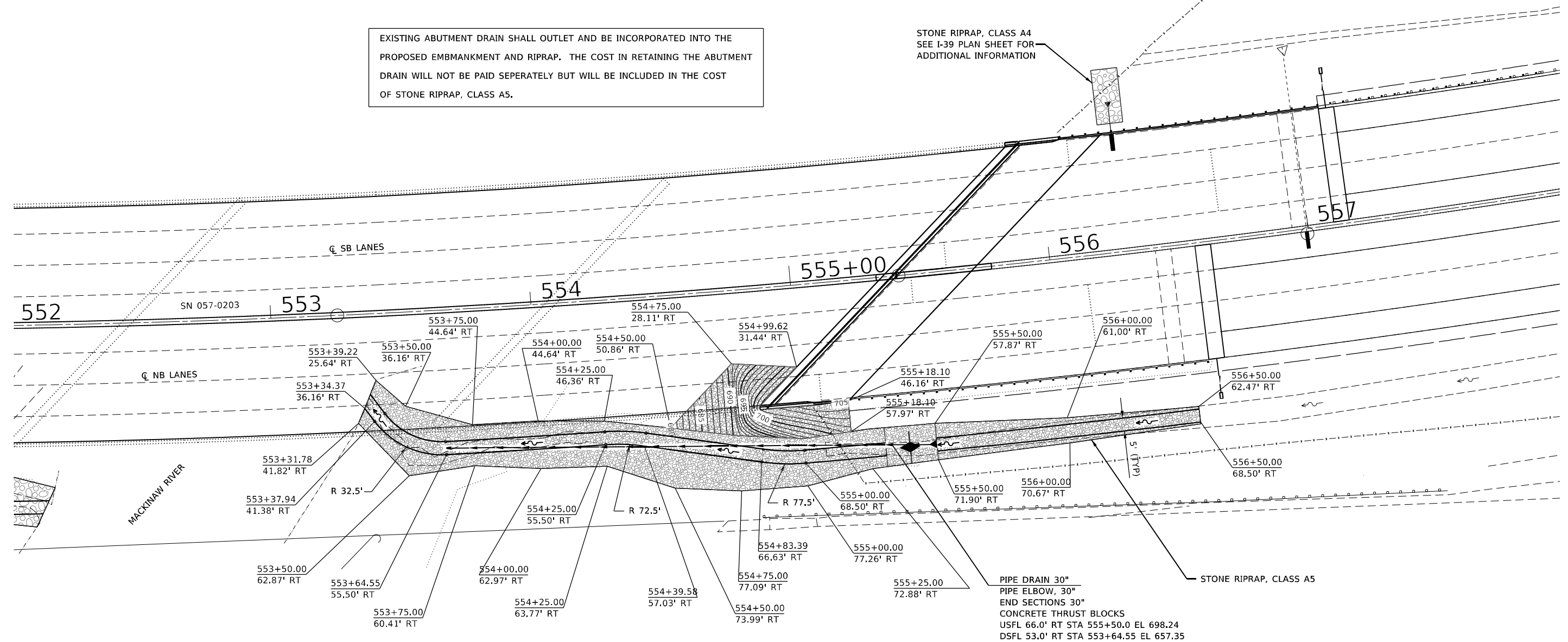
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	20
CONTRACT NO. 72E49				
ILLINOIS FED. AID PROJECT				

LEGEND

-  - STONE RIPRAP, CLASS (OF SIZE SPECIFIED)
-  - PERMANENT DITCH CHECK (EMBANKMENT)

EXISTING ABUTMENT DRAIN SHALL OUTLET AND BE INCORPORATED INTO THE PROPOSED EMBANKMENT AND RIPRAP. THE COST IN RETAINING THE ABUTMENT DRAIN WILL NOT BE PAID SEPERATELY BUT WILL BE INCLUDED IN THE COST OF STONE RIPRAP, CLASS A5.

STONE RIPRAP, CLASS A4
SEE I-39 PLAN SHEET FOR
ADDITIONAL INFORMATION



PIPE DRAIN 30"
PIPE ELBOW, 30"
END SECTIONS 30"
CONCRETE THRUST BLOCKS
USFL 66.0' RT STA 555+50.0 EL 698.24
DSFL 53.0' RT STA 553+64.55 EL 657.35

SEE GENERAL NOTES FOR RESTRICTIONS OF THE ALLOWABLE MATERIAL OPTIONS OF PIPE DRAINS.

NOTES

- EXISTING RIPRAP AND OTHER EXISTING EROSION CONTROL DEVICES WITHIN THE LIMITS OF PROPOSED CONSTRUCTION LIMITS MAY BE RELOCATED WITHIN THE JOBSITE AT THE DIRECTION OF THE RESIDENT ENGINEER PRIOR TO GRADING FOR THE PROPOSED GRADE LINES.
- ONCE GRADING FOR THE PROPOSED RIPRAP IS COMPLETE, THE RESIDENT ENGINEER WILL INSPECT FOR ANY DEEP EROSION POCKETS AND DIRECT THOSE LOCATIONS TO BE FILLED WITH CONTROLLED LOW STRENGTH MATERIAL.

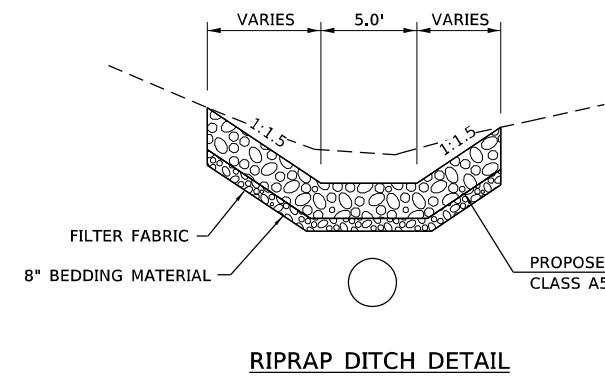
WATERWAY INFORMATION

EAST DITCH S.N. 057-0203 (NORTH APPROACH)

Drainage Area	13.0 Acres
10 year Discharge (Q10)	21 c.f.s.
50 year Design Discharge (Q50)	28 c.f.s.

DRAINAGE NOTES

1. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
2. Plan dimensions and details relative to the existing structure are subject to nominal variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.



RIPRAP DITCH DETAIL

MODEL: Default
FILE NAME: 01_0570E49-shd-Drain - North.dgn



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FILE NAME = 011-0570E49-shd-Drain - North.dgn	DRAWN - TEC	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 1/13/2021	DATE - 1/4/2021	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

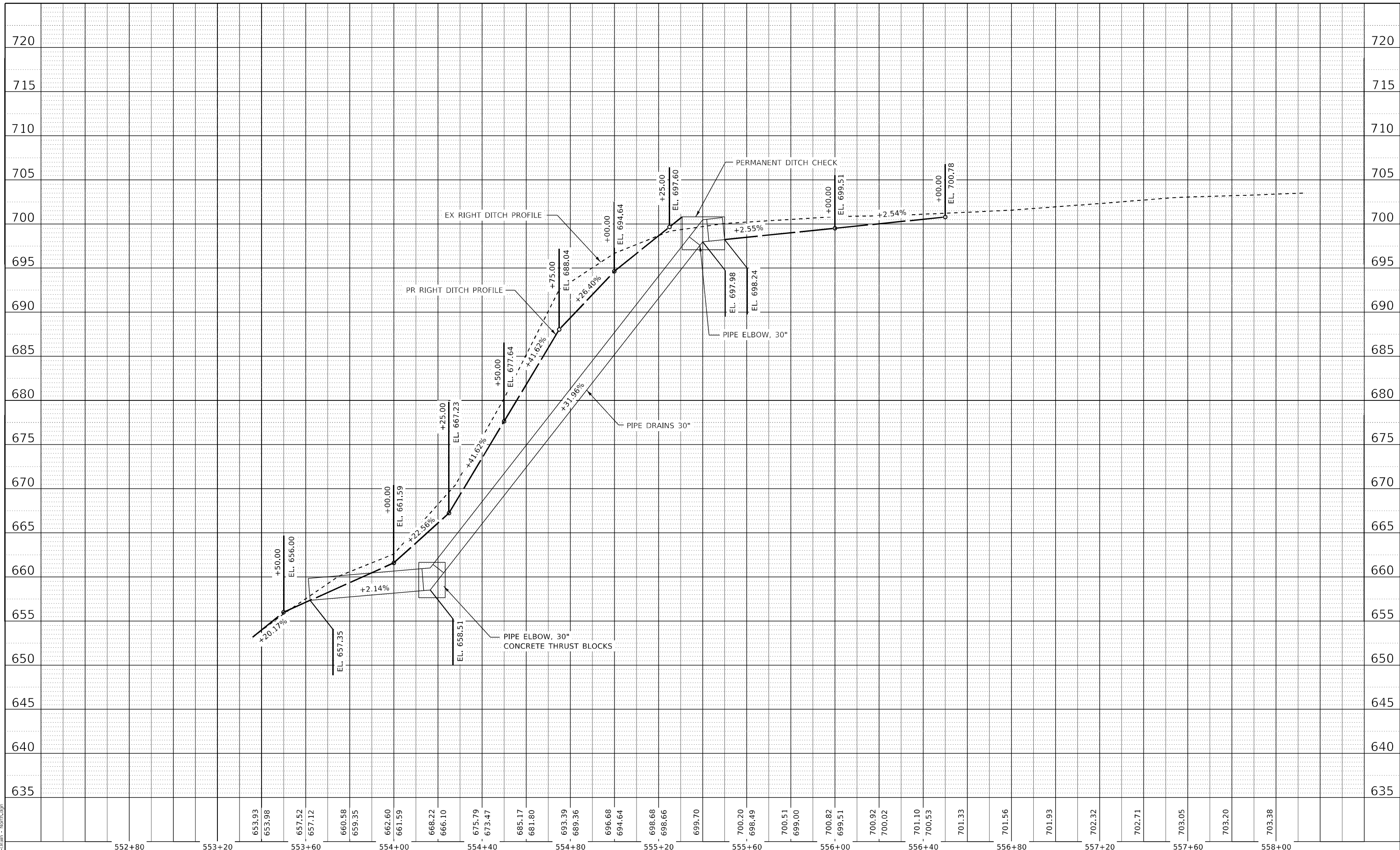
I-39 DRAINAGE SHEET
NORTH

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	21
CONTRACT NO. 72E49				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
PROFILE	GRADES CHECKED		
	STRUCTURE NOTATIONS CIPWD		
NOTE BOOK NO.		CADD FILE NAME	

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
PLAN	GRADES CHECKED		
	STRUCTURE NOTATIONS CIPWD		
NOTE BOOK NO.		CADD FILE NAME	



MODEL: Default
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JOB # 2596
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PLOT SCALE = 40,000' / in.
PLOT DATE = 1/13/2021

DESIGNED - TEC
DRAWN - TEC
CHECKED - CGF
DATE - 1/4/2021

REVISED -
REVISED -
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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**I-39 DRAINAGE PROFILE SHEET
NORTH APPROACH**

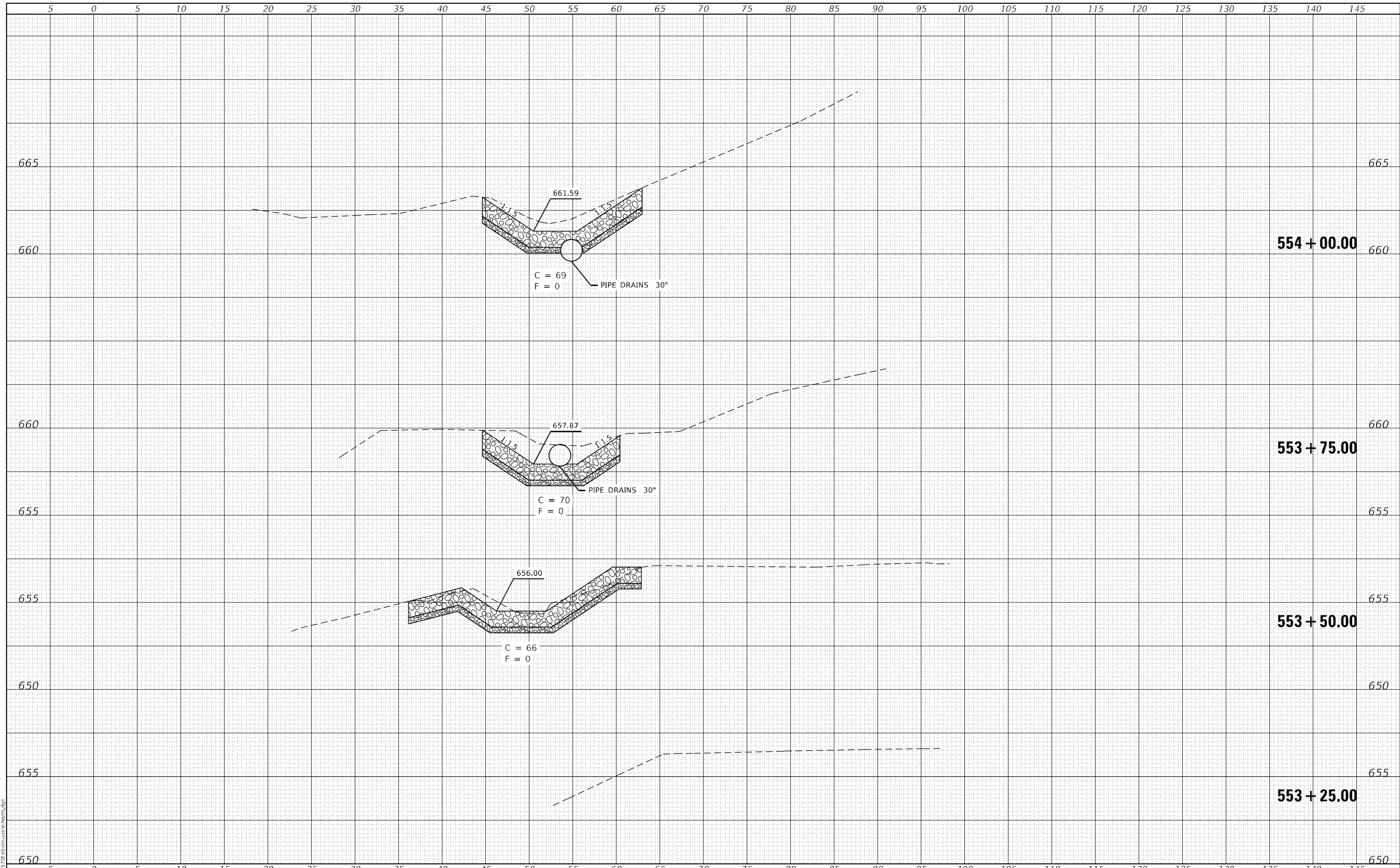
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	22
CONTRACT NO. 72E49				
ILLINOIS		FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

MODEL: Default
FILE NAME: 012-D570E49-she-xssh1-north.dgn



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Corporation
Civil and Structural Engineering

JOB = 2596.2
FILE NAME = 012-D570E49-she-xssh1-north.dgn
PLOT SCALE = 10,0000 ' / in.
PLOT DATE = 1/13/2021

DESIGNED - TEC
DRAWN - TEC
CHECKED - CGF
DATE - 1/4/2021

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REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NORTH DRAINAGE CROSS SECTIONS

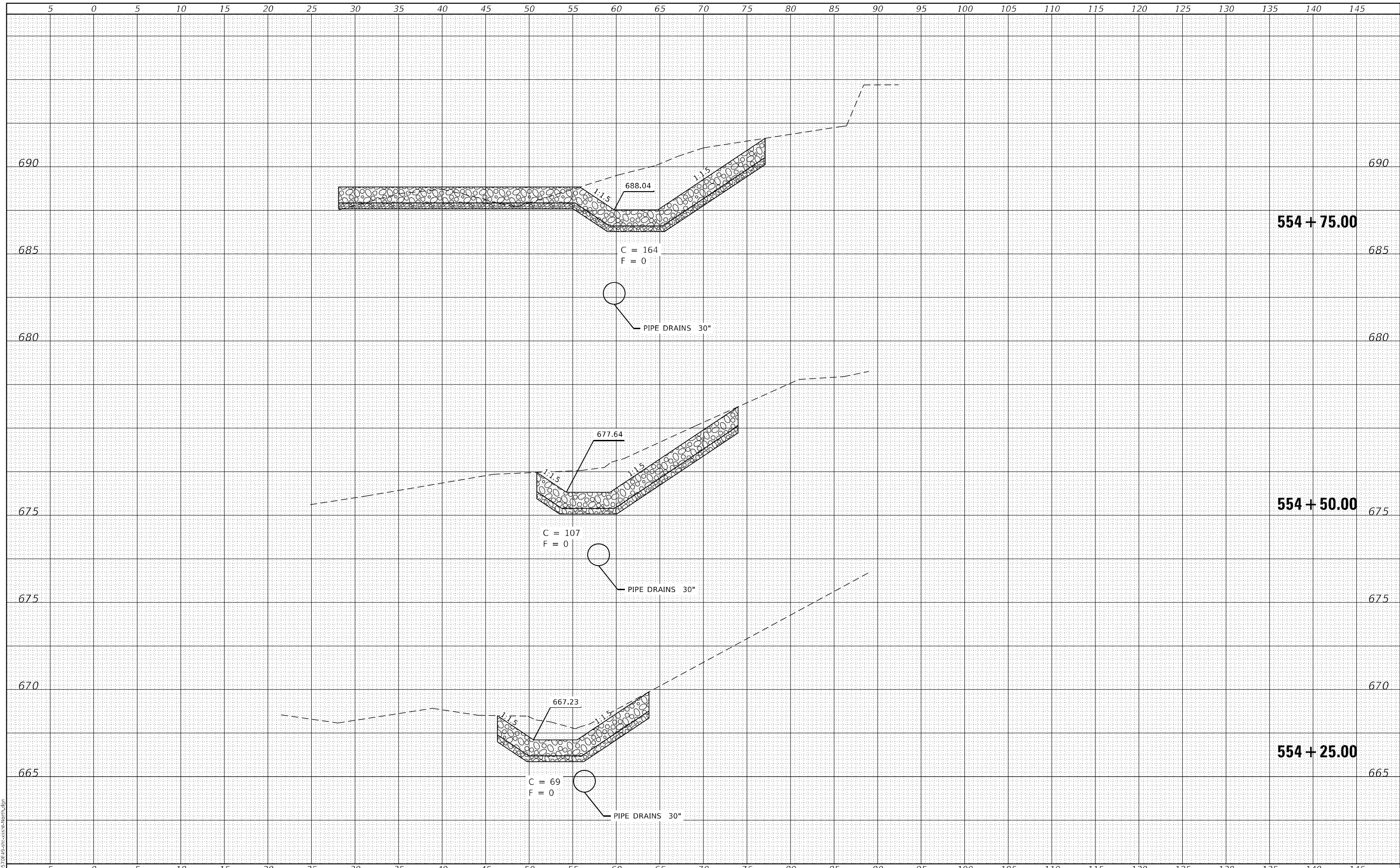
SCALE: 1" = 5' SHEET OF SHEETS STA. 553+25.00 TO STA. 554+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	23
CONTRACT NO. 72E49				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

MODEL: Default
FILE NAME: 012-0570E49-shl-ssht-North.dgn



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Corporation
Civil and Structural Engineering

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PLOT SCALE = 10,0000 ' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 1/13/2021	DATE - 1/4/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

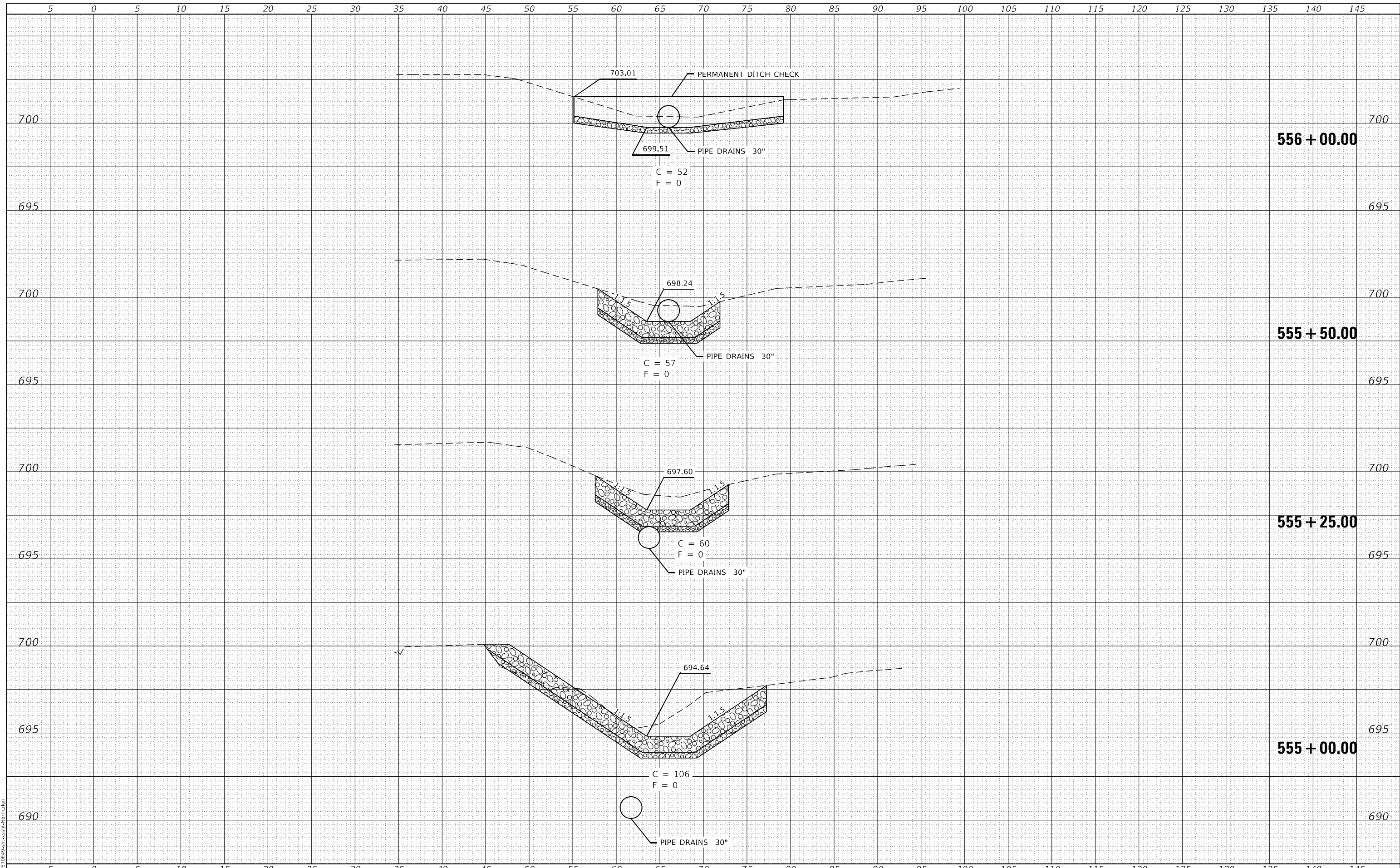
NORTH DRAINAGE CROSS SECTIONS			
SCALE: 1" = 5'	SHEET	OF	SHEETS
			STA. 554+25.00 TO STA. 554+75.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	24
CONTRACT NO. 72E49				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

MODEL: Default
FILE NAME: 012-0570E49-she-ssht-North.dgn



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Civil and Structural Engineering

JOB = 2596.2
 FILE NAME = 012-0570E49-she-ssht-North.dgn
 PLOT SCALE = 10,0000 ' / in.
 PLOT DATE = 1/13/2021

DESIGNED - TEC
 DRAWN - TEC
 CHECKED - CGF
 DATE - 1/4/2021

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

NORTH DRAINAGE CROSS SECTIONS

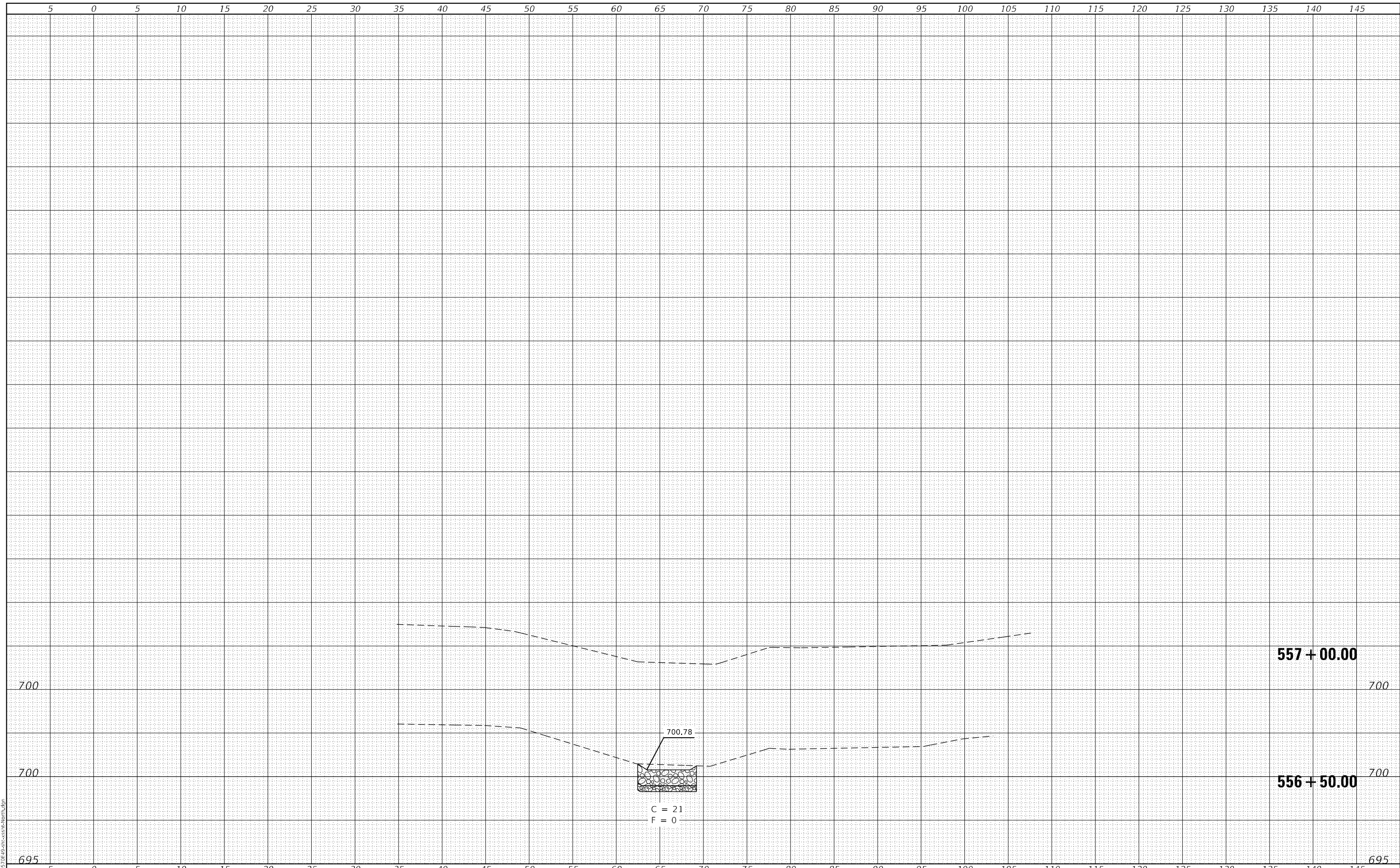
SCALE: 1" = 5' SHEET OF SHEETS STA. 555+00.00 TO STA. 556+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	25
CONTRACT NO. 72E49				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	FLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	FLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		

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CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2596.2
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PLOT DATE = 1/13/2021

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DATE - 1/4/2021

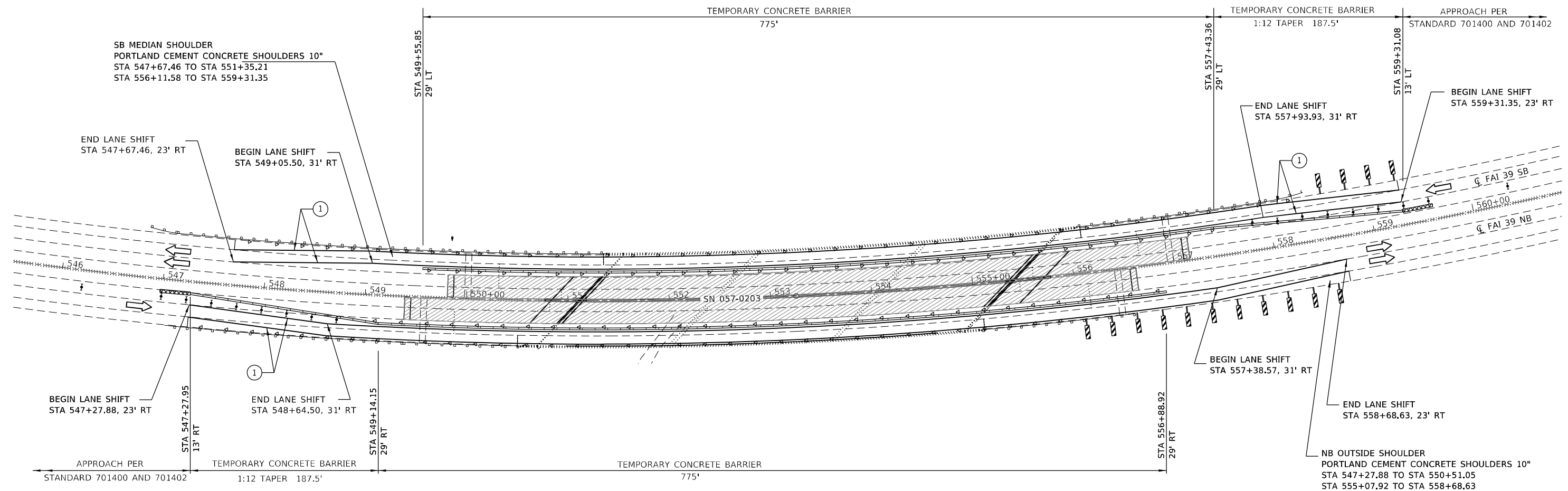
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REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

NORTH DRAINAGE CROSS SECTIONS

SCALE: 1" = 5' SHEET OF SHEETS STA. 556+50.00 TO STA. 557+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	26
CONTRACT NO. 72E49				
ILLINOIS FED. AID PROJECT				



MAINTENANCE OF TRAFFIC NOTES

1. SEE TRAFFIC CONTROL AND PROTECTION STANDARDS 701400, 701401, 701402, 701406, AND 704001 FOR DETAILS NOT SHOWN.
2. ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701401.
3. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS SHALL BE COVERED WITH PAVEMENT MARKING BLACKOUT TAPE, 5".
4. OFFSETS TO TEMPORARY CONCRETE BARRIER ARE TO THE FACE OF THE BARRIER ADJACENT TO THE OPEN TRAFFIC LANE.
5. REMOVE OUTSIDE SHOULDER (PAVED SHOULDER REMOVAL) AND CONSTRUCT PORTLAND CEMENT CONCRETE SHOULDERS 10" PRIOR TO STARTING STAGE 1 CONSTRUCTION. A PORTION OF THE PCC SHOULDERS 10" CONSTRUCTED PRIOR TO STAGE 1 SHALL BE REMOVED IN STAGE 2 AND REPLACED PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB AND THE CONCRETE SUPERSTRUCTURE (APPROACH SLAB).

LEGEND

- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH STEADY BURN MONODIRECTIONAL LIGHTS
- REFLECTORIZED TEMPORARY MARKING TAPE
- MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
- WORK ZONE
- VERTICAL PANEL (BACK TO BACK) AT 25' CENTERS

MODEL: D:\c4\h\...
 FILE NAME: 013_0570E49-sh1-Stage 1.dgn



JOB = 2596	DESIGNED - TEC	REVISED -
FILE NAME = 013-0570E49-sh1-Stage 1.dgn	DRAWN - TEC	REVISED -
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PLOT DATE = 1/13/2021	DATE - 1/4/2021	REVISED -

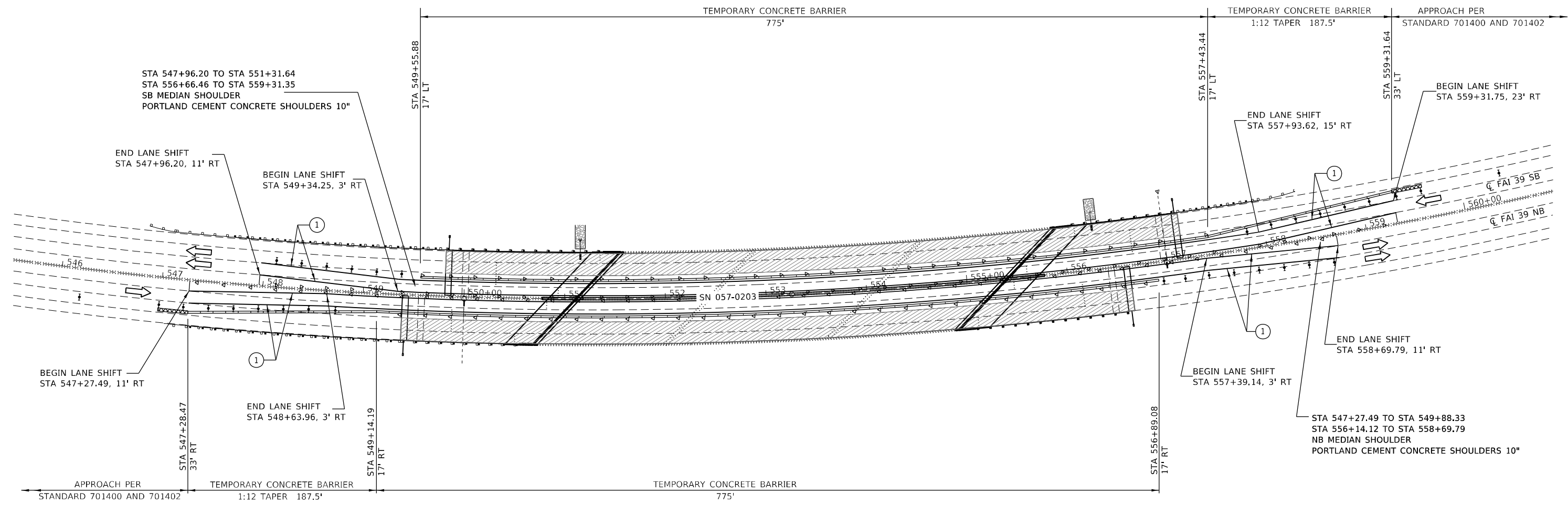
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN SHEET - STAGE 1
SN 057-0203**

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	27
CONTRACT NO. 72E49				

ILLINOIS FED. AID PROJECT



- MAINTENANCE OF TRAFFIC NOTES
1. SEE TRAFFIC CONTROL AND PROTECTION STANDARDS 701400, 701401, 701402, 701406, AND 704001 FOR DETAILS NOT SHOWN.
 2. ALL WORK WITHOUT TEMPORARY CONCRETE BARRIER SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701401.
 3. EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS SHALL BE COVERED WITH PAVEMENT MARKING BLACKOUT TAPE, 5".
 4. OFFSETS TO TEMPORARY CONCRETE BARRIER ARE TO THE FACE OF THE BARRIER ADJACENT TO THE OPEN TRAFFIC LANE.
 5. REMOVE MEDIAN SHOULDER (PAVED SHOULDER REMOVAL) AND CONSTRUCT PORTLAND CEMENT CONCRETE SHOULDERS 10" PRIOR TO STARTING STAGE 2 CONSTRUCTION.

LEGEND

	TEMPORARY CONCRETE BARRIER
	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
	TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES WITH STEADY BURN MONODIRECTIONAL LIGHTS
	REFLECTORIZED TEMPORARY MARKING TAPE
	MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR
	WORK ZONE
	VERTICAL PANEL (BACK TO BACK) AT 25' CENTERS

MODEL: Default
 FILE NAME: 014-D570E49-sh2-Stage 2.dgn



JOB = 2596
 FILE NAME = 014-D570E49-sh2-Stage 2.dgn
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 PLOT DATE = 1/13/2021

DESIGNED -	TEC	REVISED -	
DRAWN -	TEC	REVISED -	
CHECKED -	CGF	REVISED -	
DATE -	1/4/2021	REVISED -	

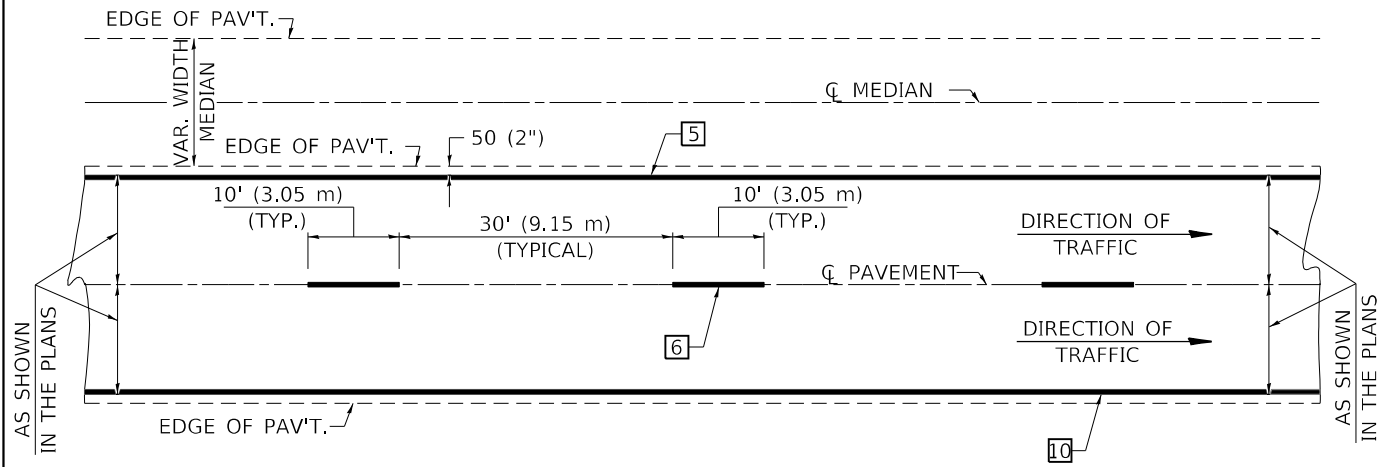
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN SHEET - STAGE 2
SN 057-0203

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	28
CONTRACT NO. 72E49				
ILLINOIS FED. AID PROJECT				

CENTERLINE INTERSTATE OR MULTI-LANE TWO WAY DIVIDED HIGHWAY

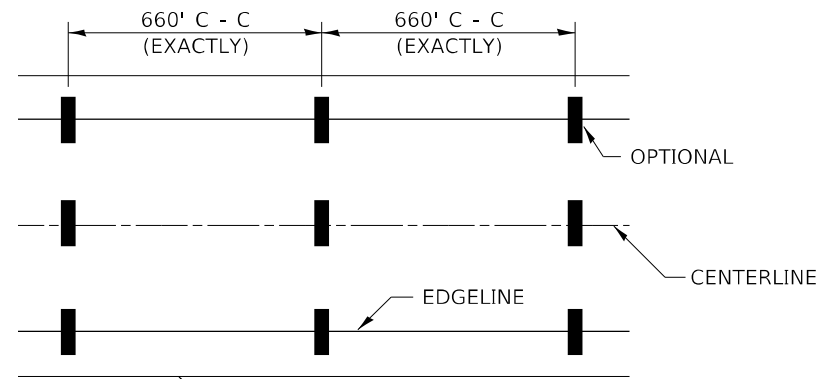


NOTE: PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.

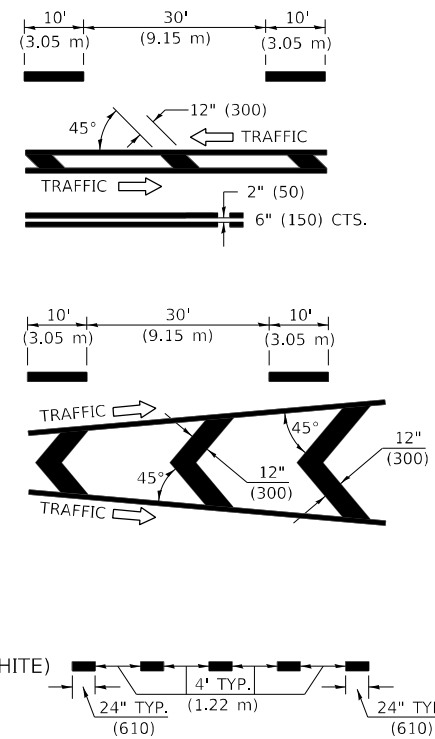
NOTE: SEE ARTICLES 780.04 & 781.03 FOR LOCATION OF STRIPES AND MARKERS RELATIVE TO EDGES OR JOINTS.

FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO STANDARD 781001.

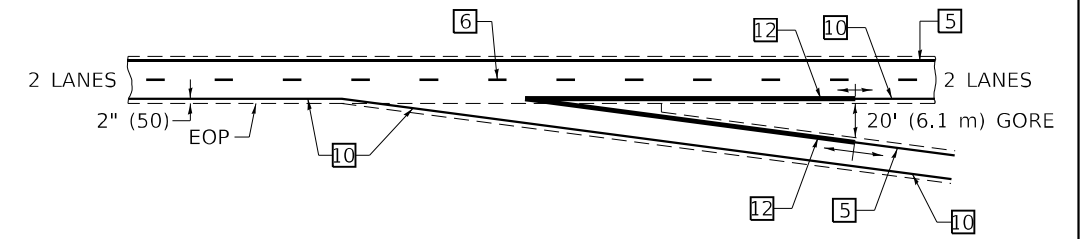
TYPICAL PAVEMENT MARKING LEGEND



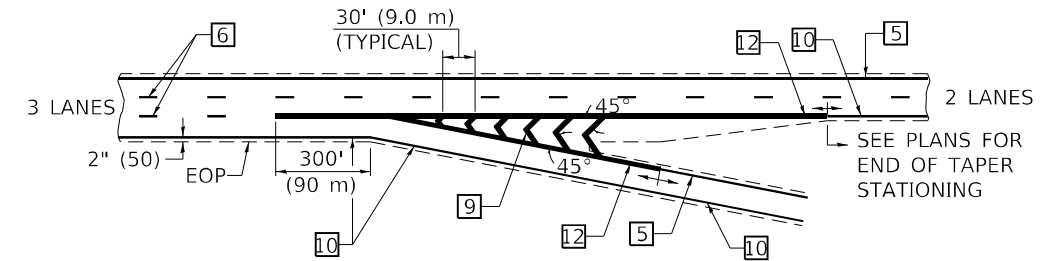
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 6" (150) SOLID (YELLOW)
- 6 6" (150) SKIP-DASH (WHITE)
- 7 4" (100) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 6" (150) LANE LINE EXTENSIONS (WHITE)



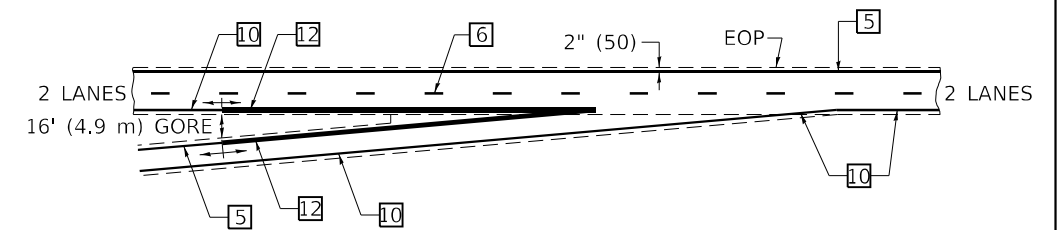
TYPICAL EXIT RAMP TERMINAL



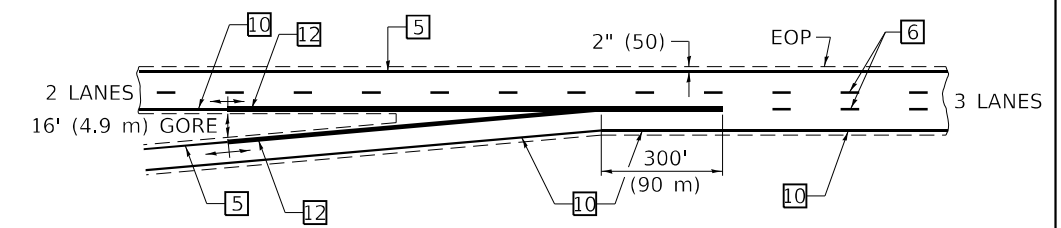
EXIT RAMP TERMINAL with EXCLUSIVE (auxiliary) LANE



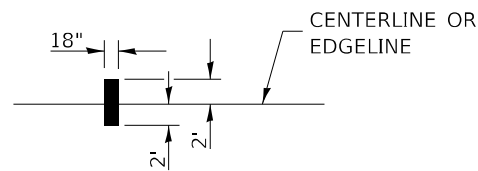
TYPICAL ENTRANCE RAMP TERMINAL



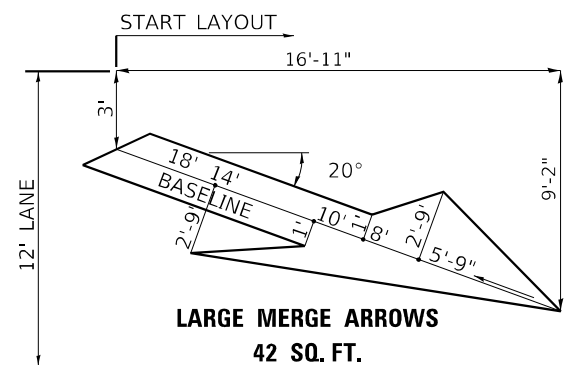
ENTRANCE RAMP TERMINAL with EXCLUSIVE LANE



IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.



AERIAL SPEED CHECK ZONES



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

MODEL: D:\csh\...
FILE NAME: 015-D570E49-sh-7800BBBB.dgn

CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2596.2
FILE NAME = 015-D570E49-sh-7800BBBB.dgn
PLOT SCALE = 40,0000' / in.
PLOT DATE = 1/13/2021

DESIGNED -
DRAWN -
CHECKED -
DATE -
REVISED - 11/06
REVISED - 12/20
REVISED -
REVISED -

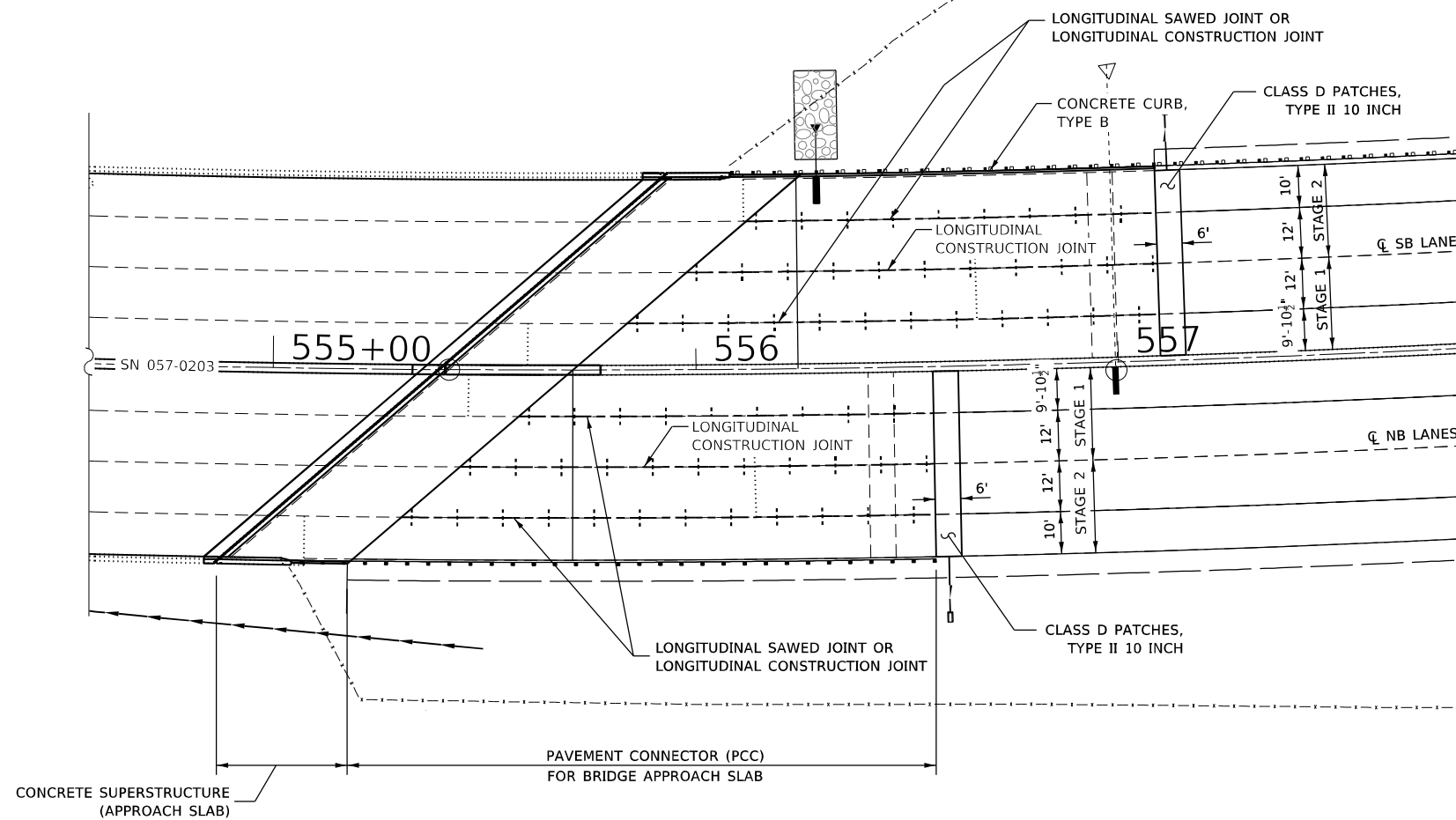
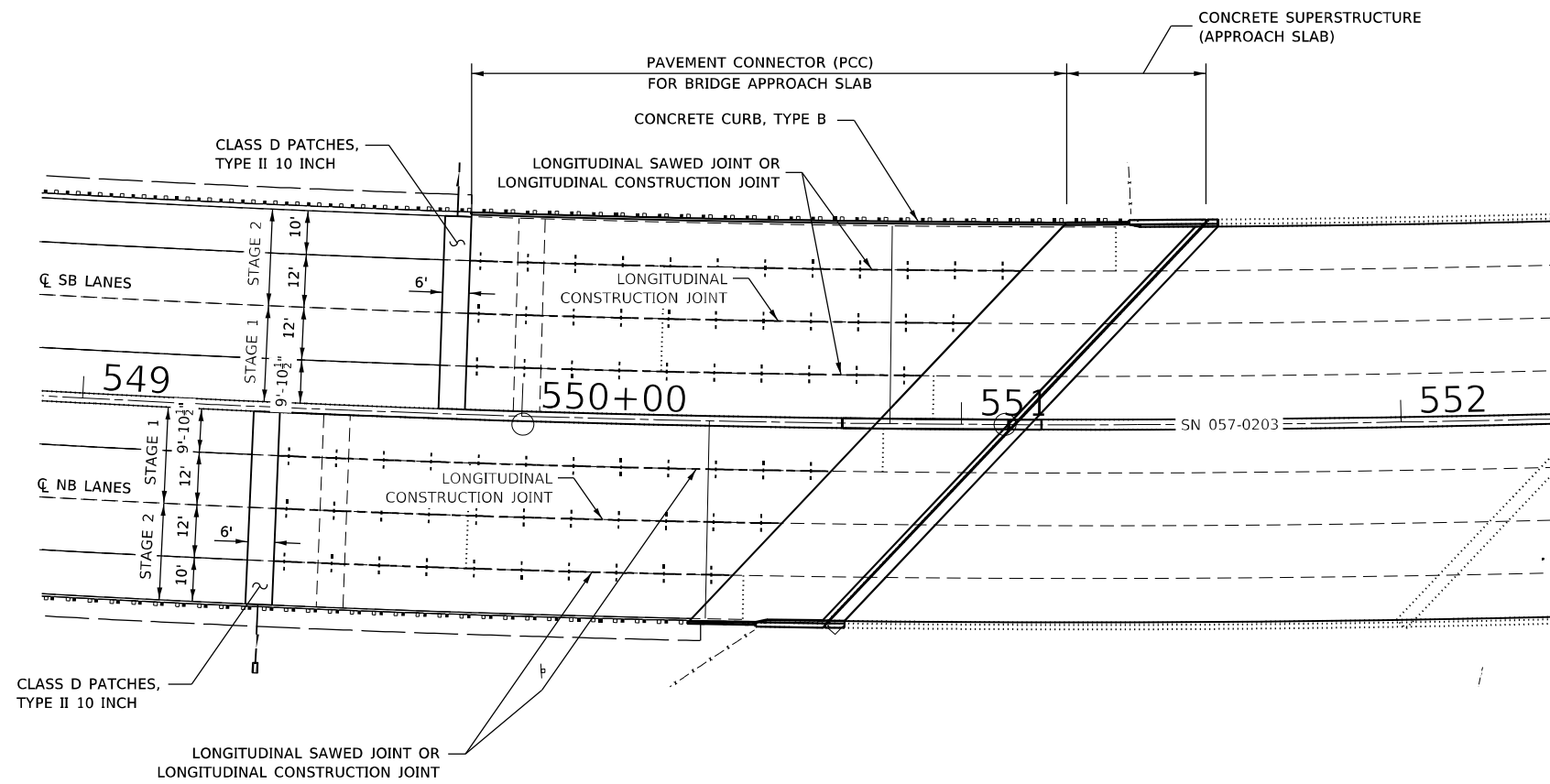
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING (INTERSTATE & MULTI-LANE APPLICATIONS)

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

DISTRICT 5 DETAIL NO. 7800BBBB

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	29
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				



GENERAL NOTES

- SEE STANDARD 420401 FOR DETAILS NOT SHOWN.
- SEE PLANS FOR DETAILS OF BRIDGE APPROACH, APPROACH FOOTING AND PREFORMED JOINT SEAL.
- SEE STANDARD 420001 FOR DETAILS OF JOINTS NOT SHOWN.
- GRINDING ENDS AT APPROACHES AND THEN FEATHERS TO NOTHING IN APPROXIMATELY 10' ACROSS CONNECTOR PAVEMENT.

MODEL Path: C:\Users\csl\Documents\Projects\Illinois\Projects\016-0570E49-sht-connector.dgn
 FILE NAME: C:\Users\csl\Documents\Projects\Illinois\Projects\016-0570E49-sht-connector.dgn



JOB = 2596.2	DESIGNED - TEC	REVISED -
FILE NAME = 016-0570E49-sht-connector.dgn	DRAWN - TEC	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 1/28/2021	DATE - 1/4/2021	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT CONNECTOR (PCC) FOR BRIDGE
 APPROACH SLAB DETAILS SN 057-0203**

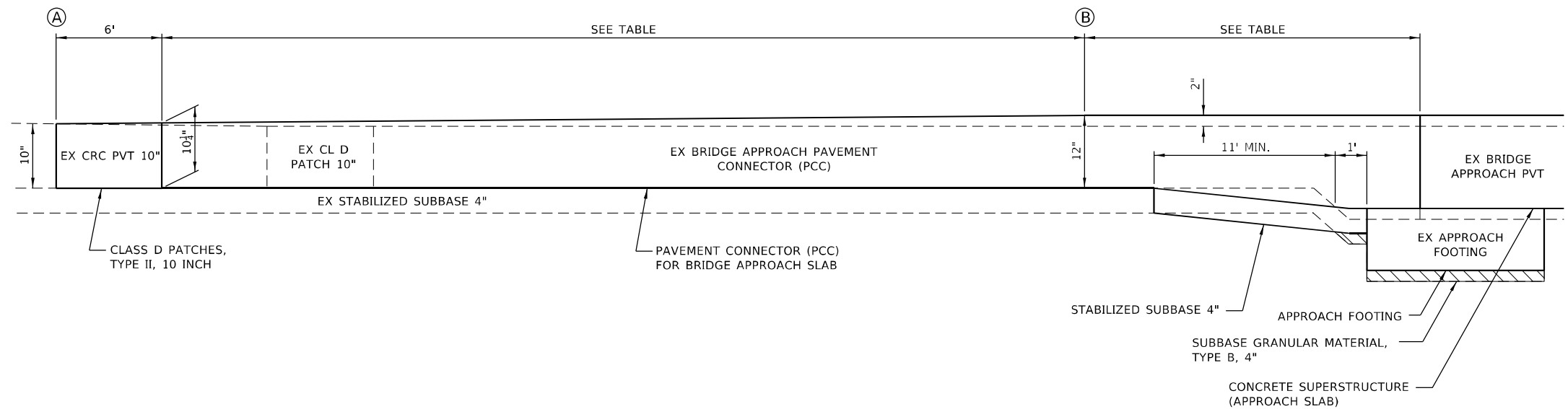
SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	30
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				

DETAIL FOR I-39 PAVING TRANSITIONS - SOUTH SIDE SN 057-0203

SOUTH END	(A) TO (B)	(B) TO APPROACH PAVEMENT
NORTHBOUND		
OUTSIDE EDGE OF SHOULDER	104.73'	0.00'
OUTSIDE EDGE OF PAVEMENT	104.49'	9.10'
NORTHBOUND CENTERLINE	104.20'	20.05'
INSIDE EDGE OF PAVEMENT	103.91'	31.02'
MEDIAN EDGE OF SHOULDER	103.67'	40.07'
SOUTHBOUND		
MEDIAN EDGE OF SHOULDER	103.78'	0.00'
INSIDE EDGE OF PAVEMENT	103.54'	9.16'
NORTHBOUND CENTERLINE	103.25'	20.33'
OUTSIDE EDGE OF PAVEMENT	102.96'	31.53'
OUTSIDE EDGE OF SHOULDER	102.72'	40.88'

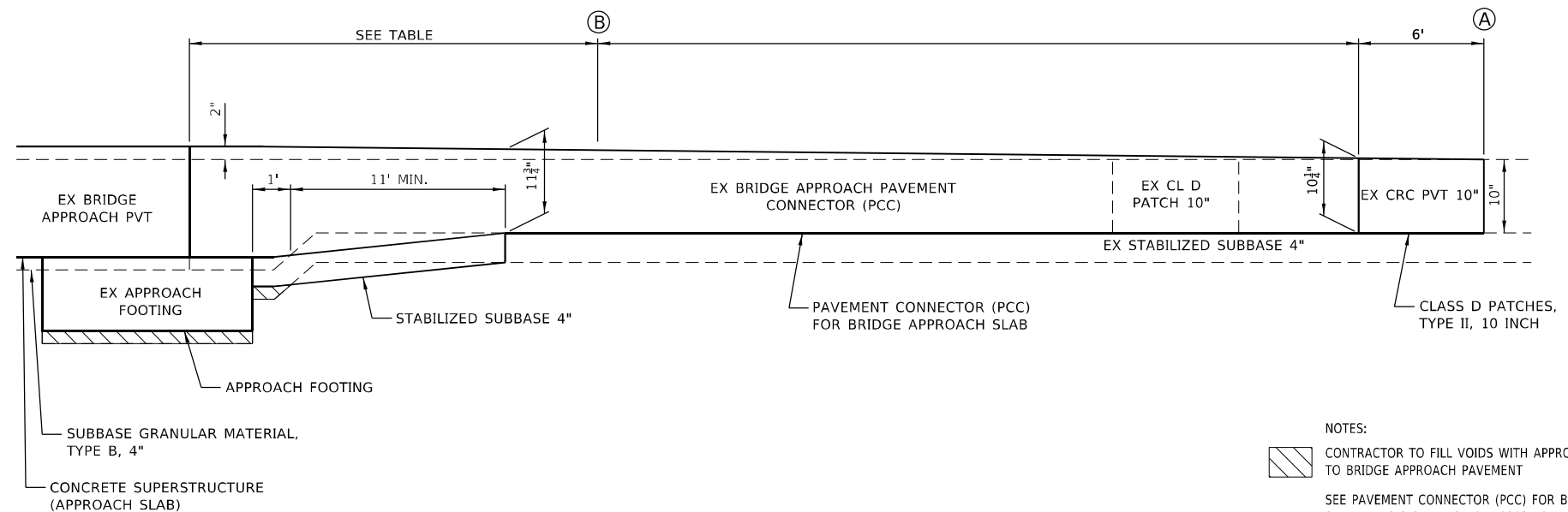
(A)	TO	(B)
STATION	TO	STATION
549+39.00	TO	550+42.66
549+81.00	TO	550+84.81



DETAIL FOR I-39 PAVING TRANSITIONS - NORTH SIDE SN 057-0203

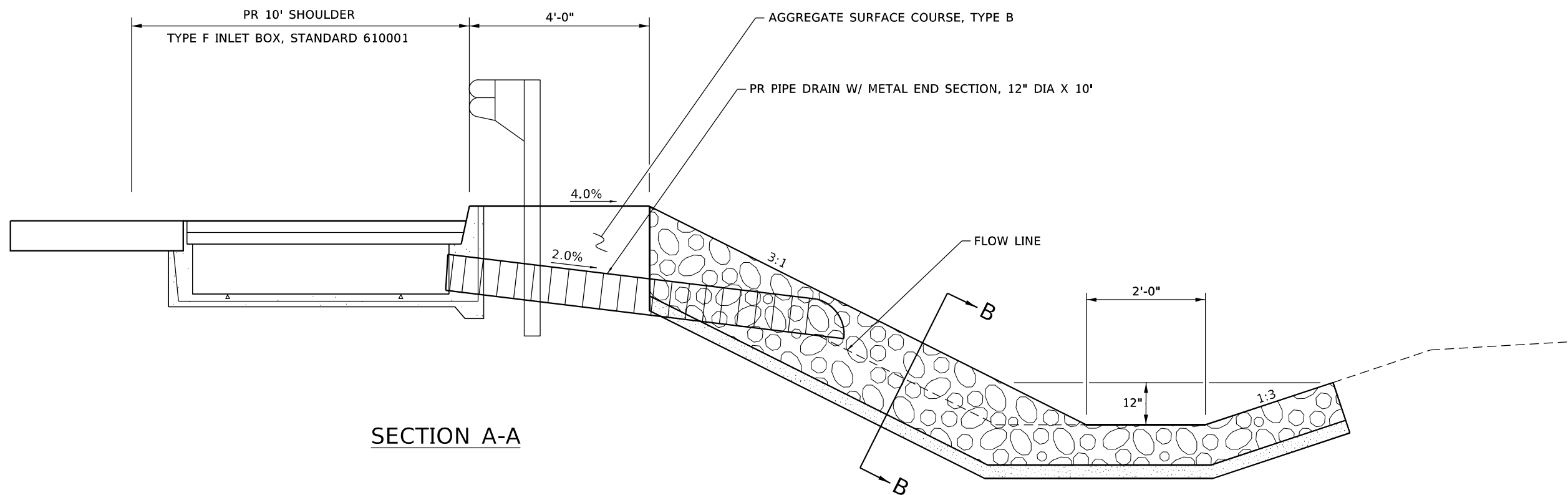
NORTH END	(A) TO (B)	(B) TO APPROACH PAVEMENT
NORTHBOUND		
OUTSIDE EDGE OF SHOULDER	93.39'	50.68'
OUTSIDE EDGE OF PAVEMENT	93.18'	39.19'
NORTHBOUND CENTERLINE	92.92'	25.35'
INSIDE EDGE OF PAVEMENT	92.66'	11.46'
MEDIAN EDGE OF SHOULDER	92.45'	0.00'
SOUTHBOUND		
MEDIAN EDGE OF SHOULDER	91.78'	51.98'
INSIDE EDGE OF PAVEMENT	91.57'	40.35'
NORTHBOUND CENTERLINE	91.31'	26.16'
OUTSIDE EDGE OF PAVEMENT	91.06'	11.91'
OUTSIDE EDGE OF SHOULDER	90.84'	0.00'

(B)	TO	(A)
STATION	TO	STATION
555+69.57	TO	556+62.00
556+24.19	TO	557+16.00

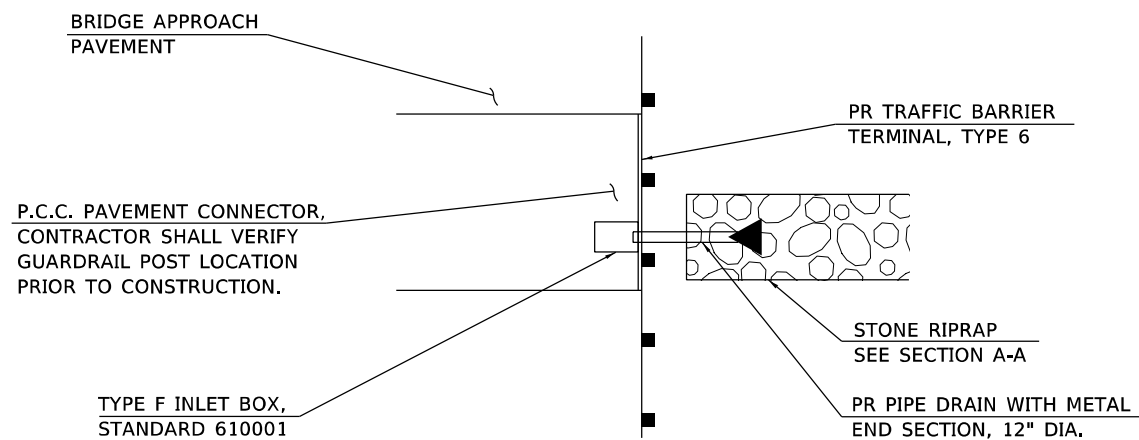


NOTES:
 CONTRACTOR TO FILL VOIDS WITH APPROVED MATERIAL TO BRIDGE APPROACH PAVEMENT
 SEE PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB DETAILS SHEET SN 057-0203 FOR FURTHER DETAILS.

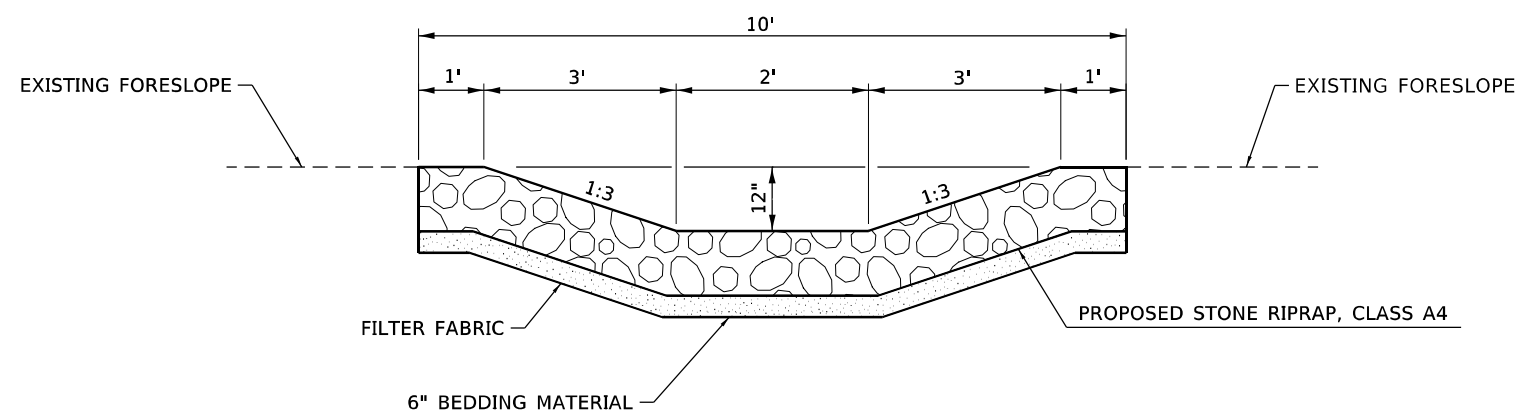
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FILE NAME: 017_0570E49-shd-details.dgn



SECTION A-A



PLAN

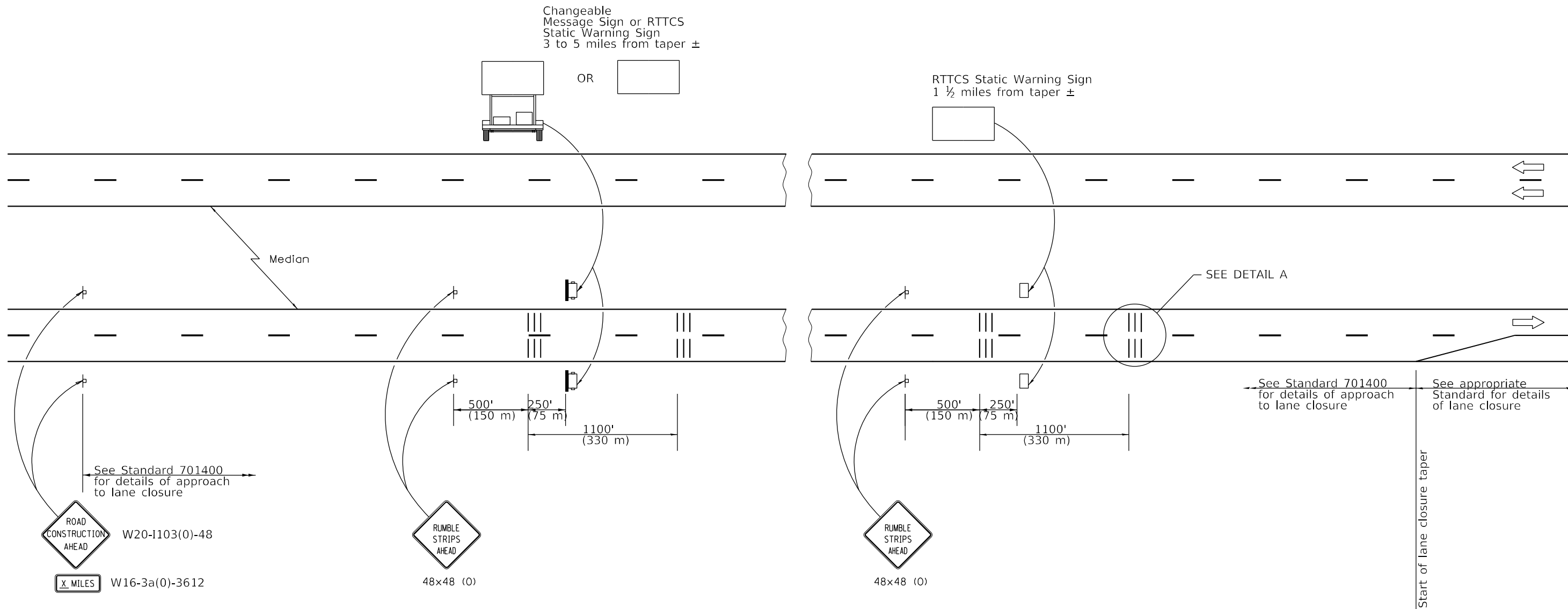


SECTION B-B

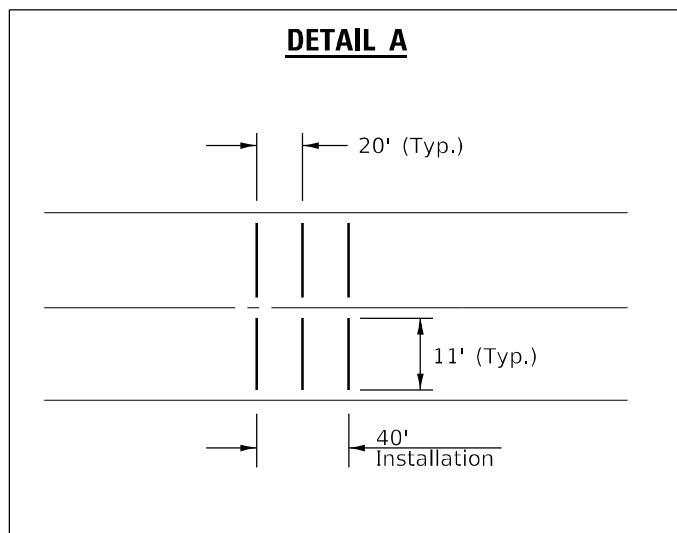
NOTE:
SEE STD 610001 FOR DETAILS NOT SHOWN.

MODEL: Default
FILE NAME: 017-0570E49-shd-details.dgn

DETAIL FOR TEMPORARY RUMBLE STRIPS (SPECIAL)



DETAIL A



SYMBOLS

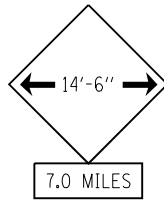
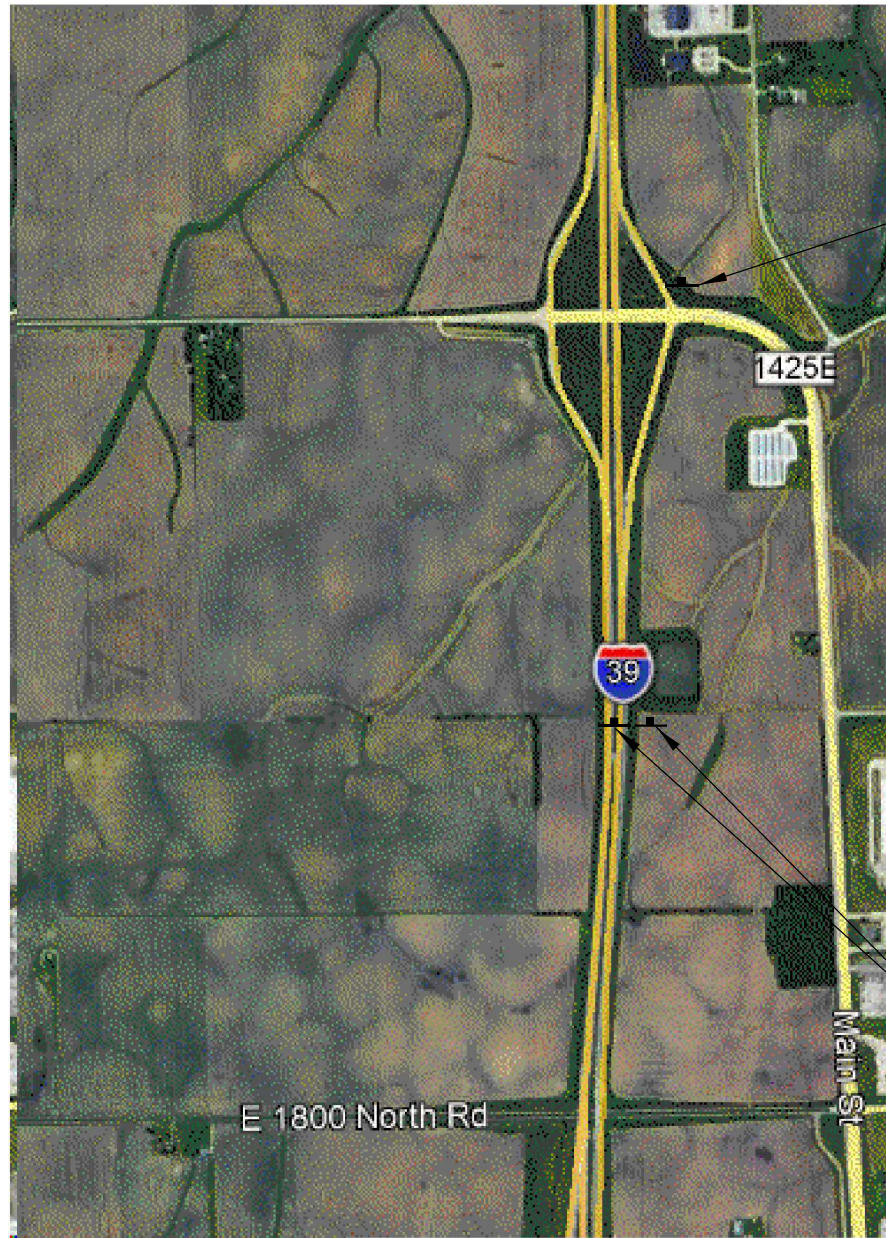
- † Sign
- ||| Temporary Rumble Strips (Special)
- ☐ Trailer Mounted Sign
- ☐ RTTCS Static Warning Sign

GENERAL NOTES

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

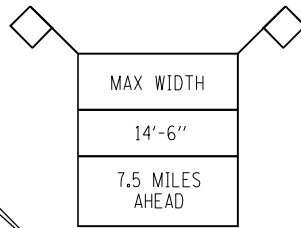
All dimensions are in inches (millimeters) unless otherwise shown.

MODEL Path: \\...
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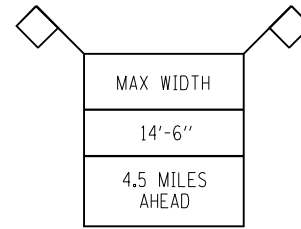
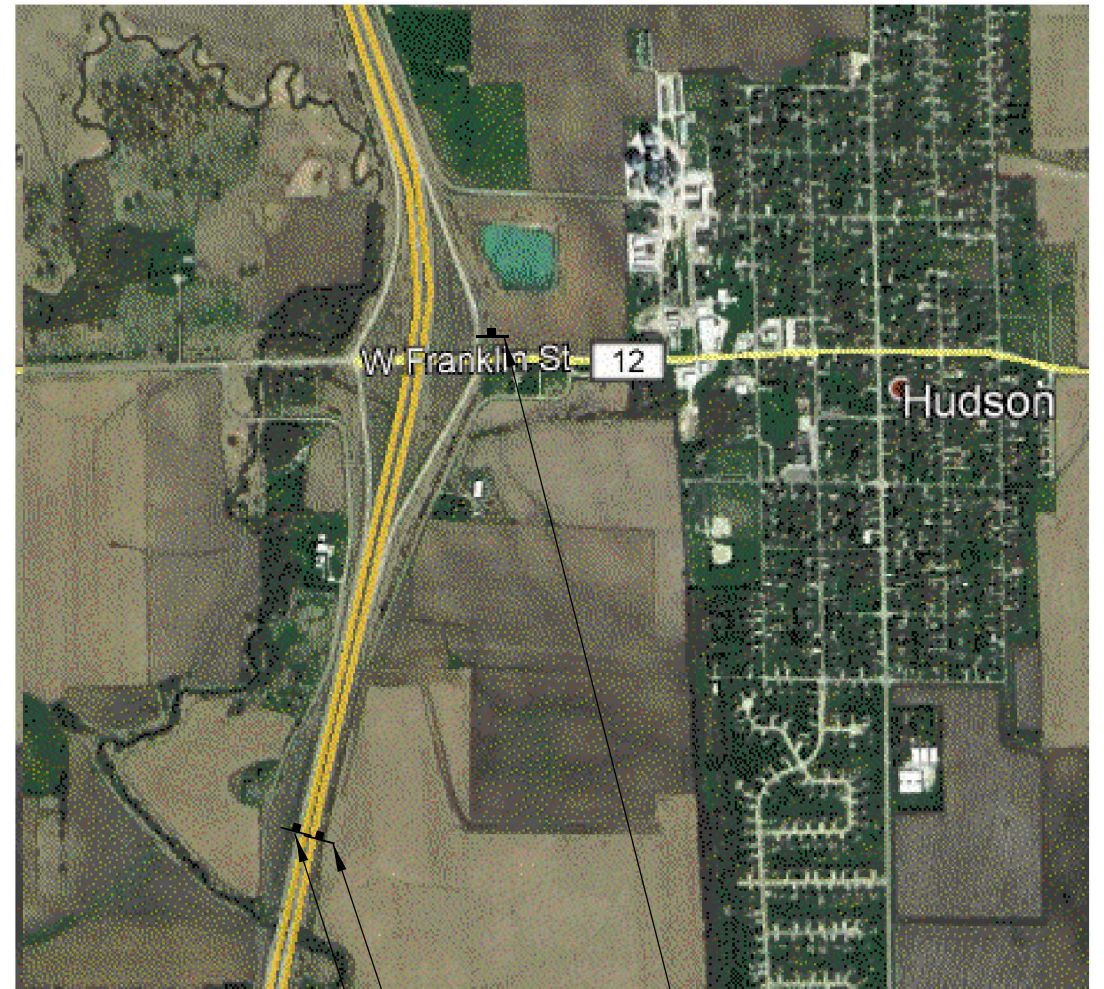


7.0 MILES

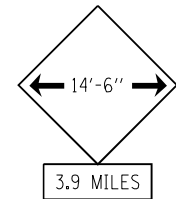
ERECT PRIOR TO
USE PROHIBITED BY
SIGN



ERECT BY BUSN 51
BLOOMINGTON/NORMAL
½ MILE GREEN BOARD



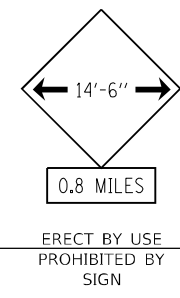
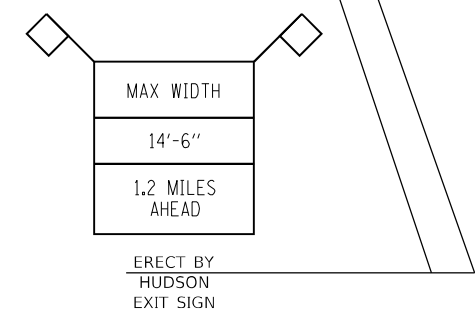
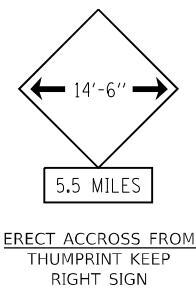
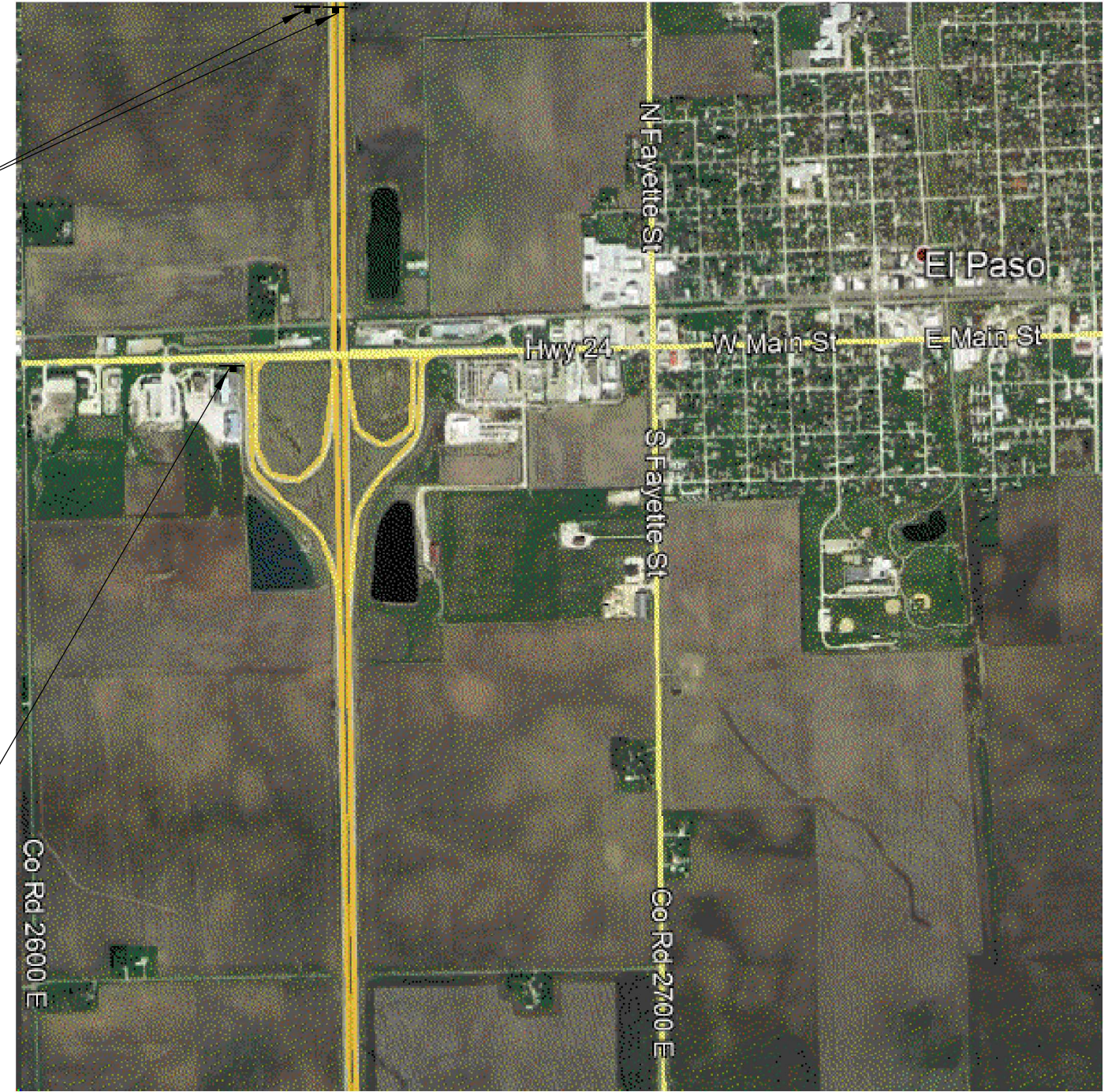
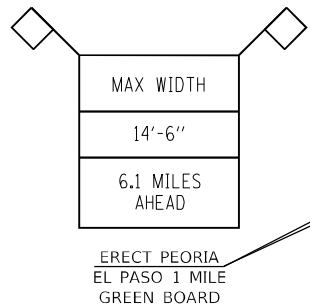
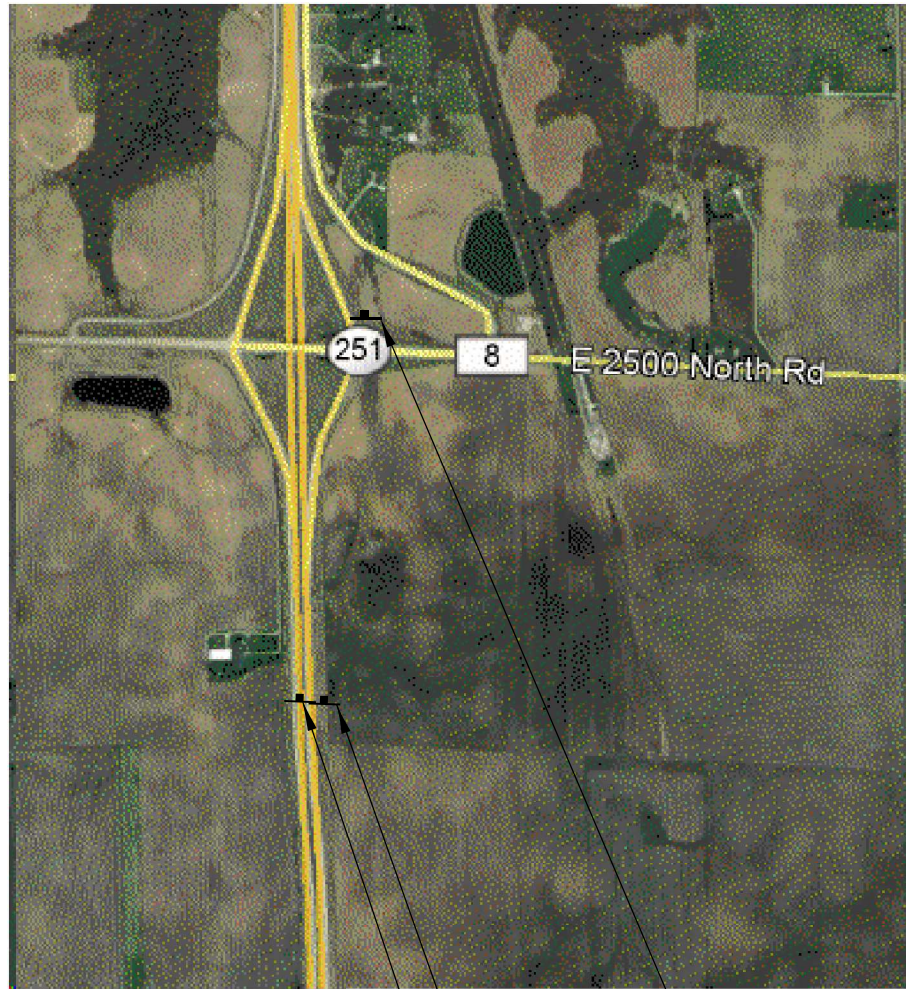
ERECT BY
MILE MARKER '4'
SIGN



3.9 MILES

ERECT BY USE
PROHIBITED BY
SIGN

MODEL: D:\csh\...
FILE NAME: 018-0570E49-shr-WRS.dgn



MODEL: D:\csh\...
FILE NAME: 018-D570E49-shr-WRS.dgn

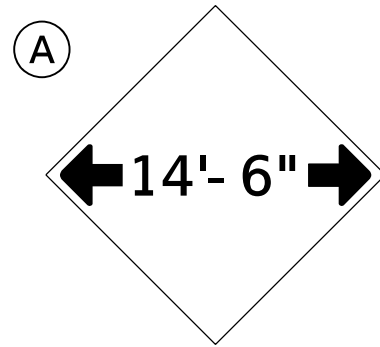


JOB = 2596.1	DESIGNED - TEC	REVISED -
FILE NAME = 018-D570E49-shr-WRS.dgn	DRAWN - TEC	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 1/13/2021	DATE - 1/4/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WIDTH RESTRICTION SIGNING DETAILS			
SCALE:	SHEET 2 OF 3 SHEETS	STA.	TO STA.

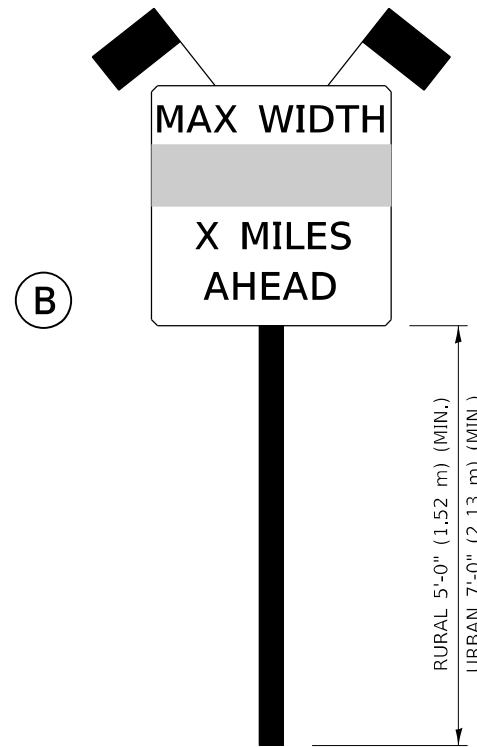
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	35
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				



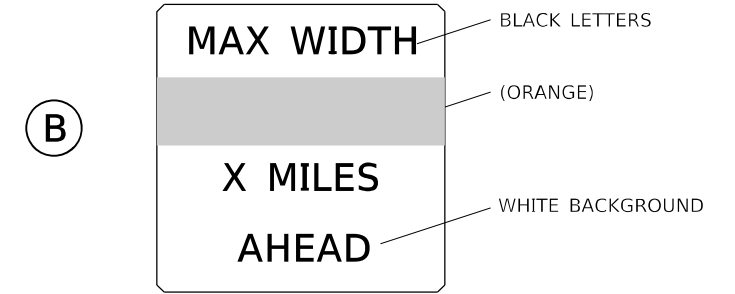
W12-2(O)-48"x48"(1200x1200)

SIGN (A) 2 SIGNS - W12-2(O)-48"x48"(1200x1200) ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

SIGN (B) 2 SIGNS - (SIGN PANEL, TYPE II) AS SHOWN ARE TO BE PLACED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.



SIGN PANEL, TYPE II



**W12-I103(O)-48"x48"(1200x1200)
"D" LETTERS/NUMBERS**

GENERAL NOTES

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL (B) SIGNS SHALL HAVE FLAGS INSTALLED UNLESS OTHERWISE DIRECTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE DIRECTED.
6. ALL SIGNS SHOWN ORANGE (O) SHALL BE FLUORESCENT ORANGE.
7. ALL SIGNS SHOWN SHALL CONSIST OF THE CURRENT RETROREFLECTIVE SHEETING REQUIREMENTS AS OUTLINED IN SECTION 1106.01 OF THE STANDARD SPECIFICATIONS BOOK.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

MODEL: D:\csh\...
FILE NAME: 018-D570E49-shr-WRS.dgn



JOB = 2596.2	DESIGNED - TEC	REVISED -
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PLOT SCALE = 40,0000 ' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 1/13/2021	DATE - 1/4/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WIDTH RESTRICTION SIGNING DETAILS

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

DISTRICT 5 DETAIL NO. X7200201

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	MCLEAN	59	36
			CONTRACT NO. 70E49	
			ILLINOIS FED. AID PROJECT	

Existing Structure: S.N. 057-0203 originally built in 1989 as F.A.P. 412 Section 57-4B-1, consisting of a 3-span plate girder superstructure on pile supported multi-column concrete piers and pile supported open abutments. The existing structure is 431'-8 1/2" back to back of abutments. The concrete deck is 43'-10 1/2" face to face of parapets N.B. and S.B. lanes with a concrete median barrier. The overall bridge width is 93'-2" out to out of deck.

New concrete deck overlay and approach slabs will be built under staged construction. The existing bridge deck will be patched and the existing expansion joints will be removed and replaced. The existing substructures will be repaired.

GENERAL NOTES

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

Up to 1/4 inch may be ground off the bridge deck and approach slabs. Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when deck is poured at an ambient temperature other than 50° F.

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

DESIGN STRESSES

FIELD UNITS (New Construction)

- f'c = 4,000 psi (Superstructure)
- f'c = 3,500 psi (Substructure)
- fy = 60,000 psi (Reinforcement)
- fy = 50,000 psi (M270 Grade 50)
- fy = 36,000 psi (M270 Grade 36 - Scupper Adjustment)

FIELD UNITS (Existing Construction)

- f'c = 3,500 psi
- fy = 60,000 psi

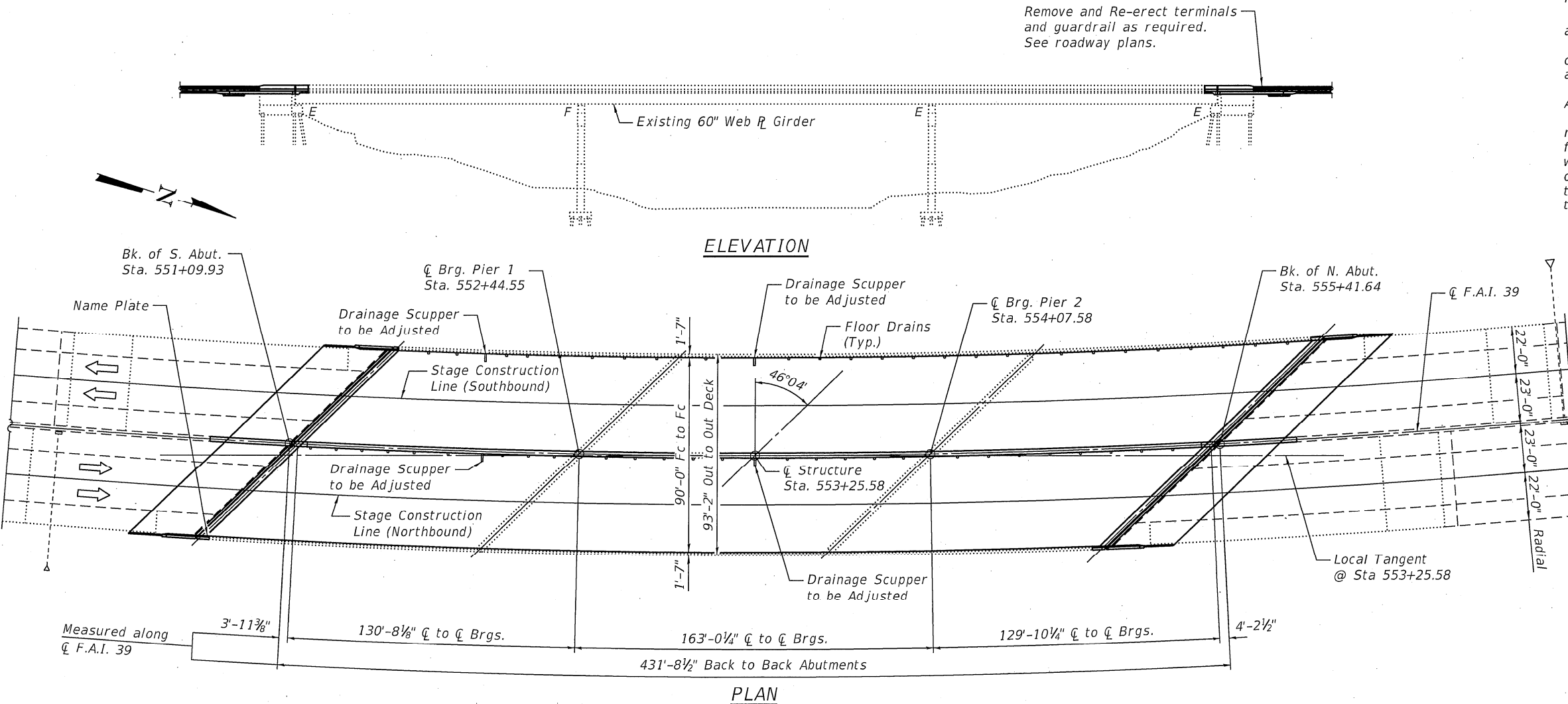
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	46.1
Concrete Structures	Cu. Yd.	89.4
Concrete Superstructure	Cu. Yd.	43.3
Protective Coat	Sq. Yd.	4,858
Concrete Superstructure (Approach Slab)	Cu. Yd.	269.7
Furnishing and Erecting Structural Steel	Pound	21,880
Reinforcement Bars, Epoxy Coated	Pound	72,650
Bar Splicers	Each	496
Preformed Joint Strip Seal	Foot	267
Elastomeric Bearing Assembly, Type I	Each	11
Elastomeric Bearing Assembly, Type II	Each	11
Anchor Bolts, 1"	Each	44
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	3,841
Jack and Remove Existing Bearings	Each	22
Structural Steel Removal	Pound	18,640
Structural Steel Repair	Pound	25,830
Bridge Deck Microsilica Concrete Overlay, 2 3/4 Inch	Sq. Yd.	4090
Bridge Deck Scarification 3/4"	Sq. Yd.	4090
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	115
Deck Slab Repair (Full Depth, Type I)	Sq. Yd.	30
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	11
Diamond Grinding (Bridge Section)	Sq. Yd.	4,522
Drainage Scuppers to be Adjusted	Each	4

* Apply to new concrete and overlays only

GENERAL PLAN AND ELEVATION

**F.A.I. ROUTE I-39
OVER MACKINAW RIVER
SECTION (57-4B-1)BR
McLEAN COUNTY
STA 553+25.58
STRUCTURE NO. 057-0203**

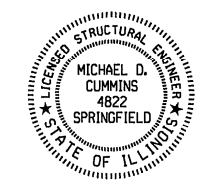
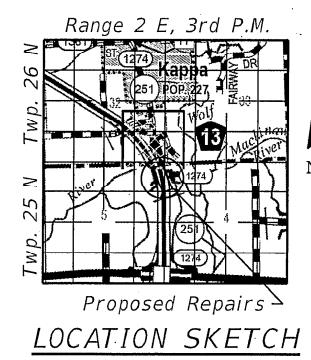
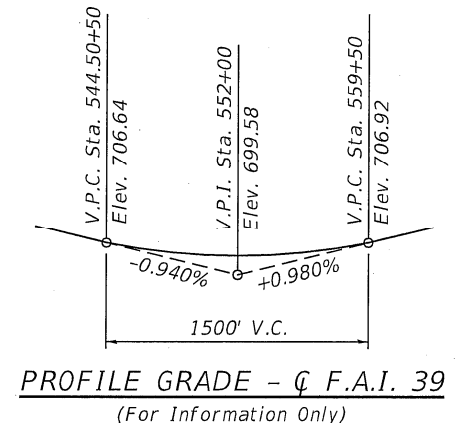


SCOPE OF WORK

1. Perform bridge deck scarification on bridge deck.
2. Remove existing concrete median barrier at abutments.
3. Remove existing joints at abutments.
4. Perform full-depth patching.
5. Perform structural repair of concrete at abutments.
6. Replace bearings at abutments.
7. Perform structural steel repairs and replace end diaphragms at abutments.
8. Install new preformed joint strip seal.
9. Place Microsilica concrete overlay.
10. Construct approach slabs.
11. Reconstruct concrete median barrier on approaches.
12. Diamond grind bridge deck and approach slabs.
13. Existing name plate to be removed, cleaned and reinstalled.

**EXISTING CURVE DATA
F.A.I. 39**

(For Information Only)
P.I. Sta. = 556+06.59
Δ = 44° 50' 30"
D = 1° 20' 00"
R = 4297.18'
T = 1773.0'
L = 3363.13'
E = 351.40'
S.E. = 0.042 %/Ft
P.C. Sta. = 540+33.59
P.T. Sta. = 573+96.72



Michael D. Cummins 1/28/21
(Expires 11/30/22)



JOB #	2596.2	DESIGNED	AAN	REVISED	
FILE NAME	057-0203-70E49-01-GPE.dgn	CHECKED	MDC	REVISED	
FLOT DATE	1/27/2021	DRAWN	SJS	REVISED	
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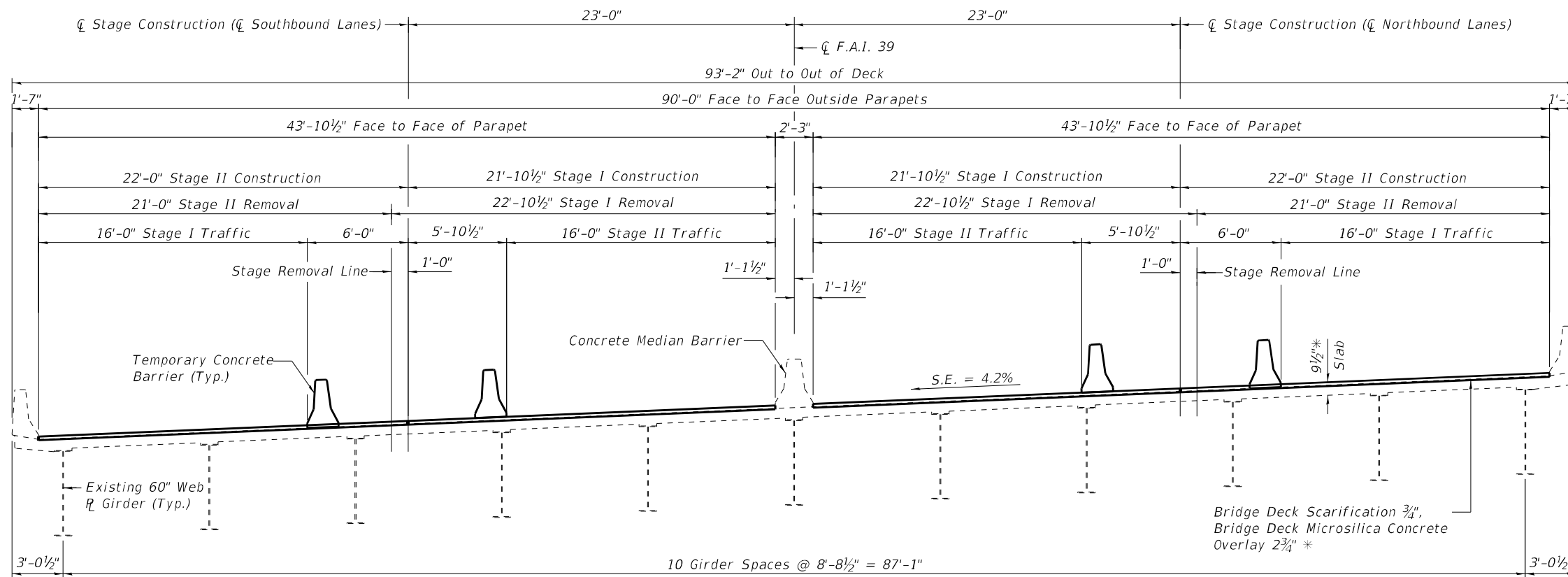
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION
STRUCTURE NO. 057-0203**

SHEET 1 OF 23 SHEETS

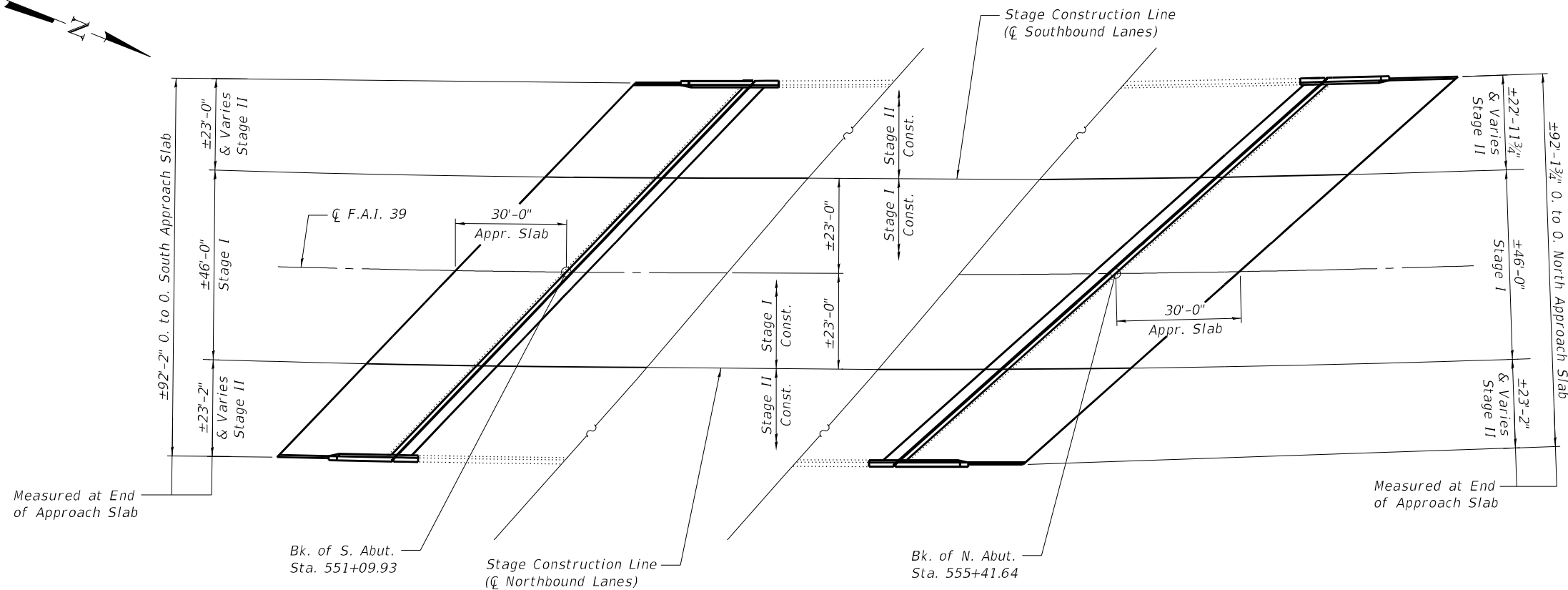
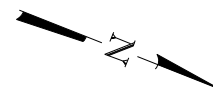
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	37
CONTRACT NO. 70E49				

MODEL: Default
FILE NAME: 057-0203-70E49-01-GPE.dgn



STAGE I & II CONSTRUCTION
 (Southbound Lanes - Looking North)
 All Dimensions Radial to \bar{C} F.A.I. 39 unless noted otherwise

STAGE I & II CONSTRUCTION
 (Northbound Lanes - Looking North)
 All Dimensions Radial to \bar{C} F.A.I. 39 unless noted otherwise



STAGING PLAN

* Prior to 1/4" Grinding

Notes:

Concrete Median Barrier omitted for clarity.
 Radial dimensions are at right angles to face of concrete median barrier and parapets across bridge deck only. Shoulder width at ends of approach slabs varies.

MODEL: Default
 FILE NAME: 057-0203-70E49-02-Stage.dgn



JOB #	2596.2
FILE NAME	057-0203-70E49-02-Stage.dgn
PLLOT DATE	1/27/2021

DESIGNED	AAN	REVISED	
CHECKED	MDC	REVISED	
DRAWN	TSH	REVISED	
CHECKED	MDC	REVISED	

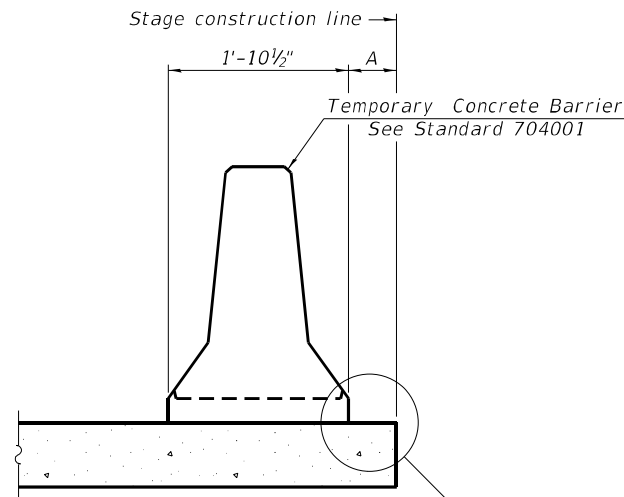
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 057-0203

SHEET 2 OF 23 SHEETS

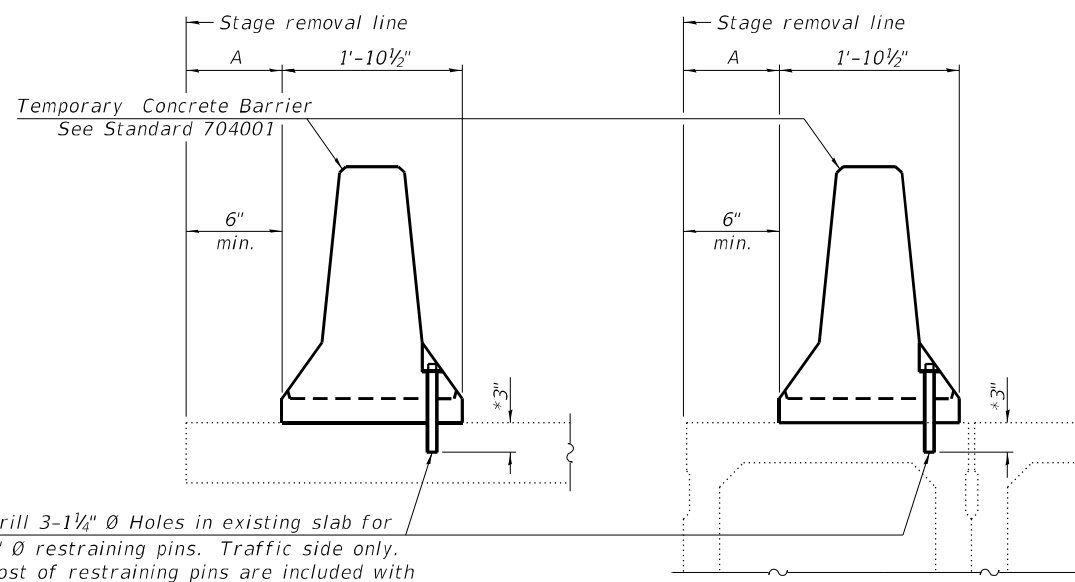
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHIFTS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	38
CONTRACT NO. 70E49				

ILLINOIS FED. AID PROJECT



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

NEW SLAB OR NEW DECK BEAM

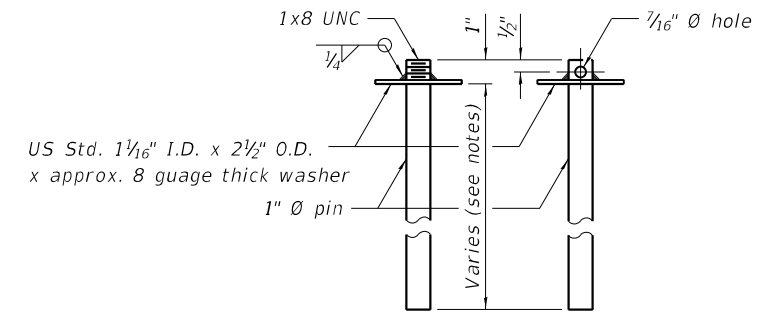


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

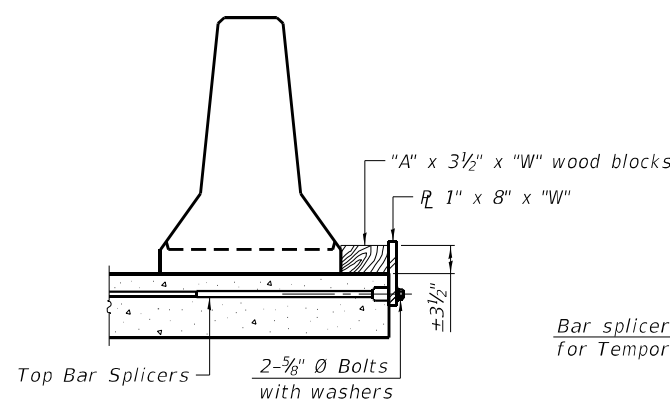
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

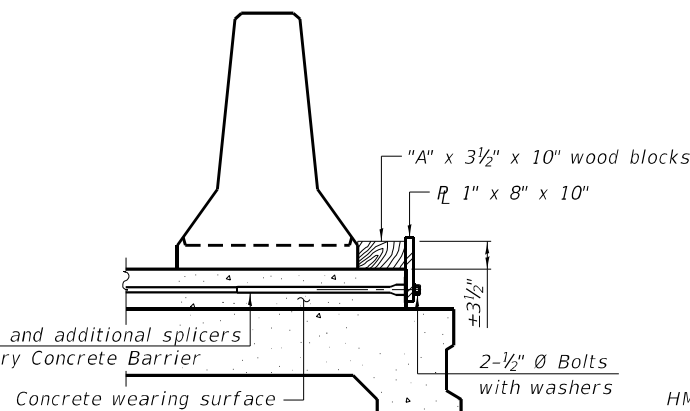


RESTRAINING PIN

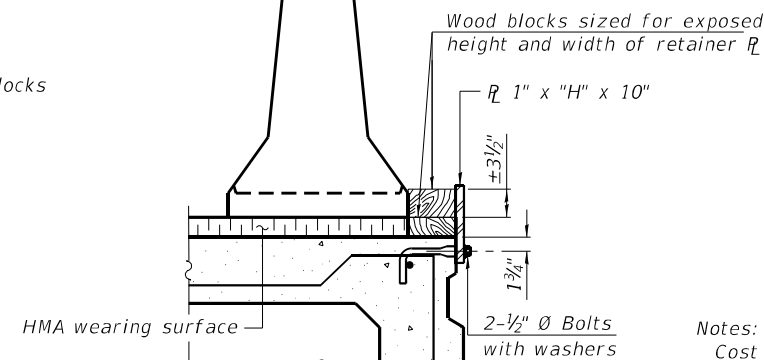
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.



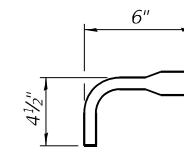
DETAIL I



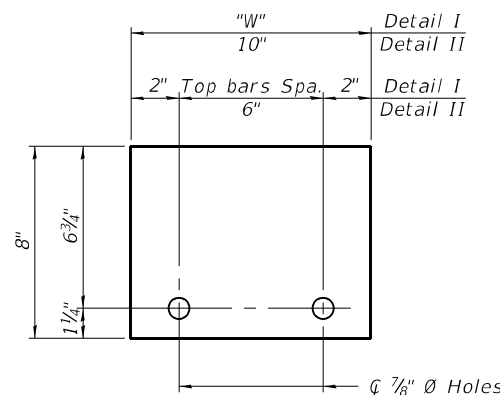
DETAIL II



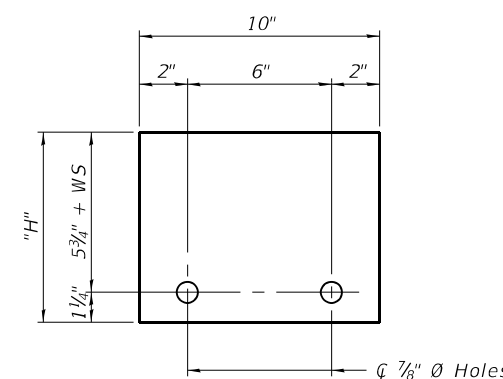
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

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

MODEL: Default
 FILE NAME: 057-0203-70E49-03-Barrier.dgn

R-27 2-17-2017

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 Engineering
 Corporation
 Civil and Structural Engineering

JOB = 2596.2
 FILE NAME = 057-0203-70E49-03-Barrier.dgn
 PLOT DATE = 1/27/2021

DESIGNED	AAN	REVISED	
CHECKED	MDC	REVISED	
DRAWN	SJS	REVISED	
CHECKED	MDC	REVISED	

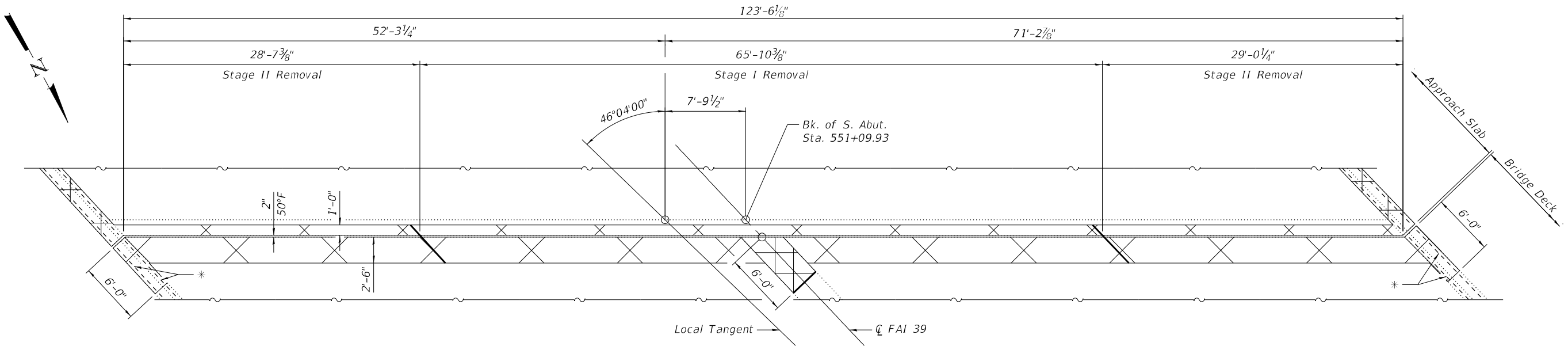
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 STRUCTURE NO. 057-0203

SHEET 3 OF 23 SHEETS

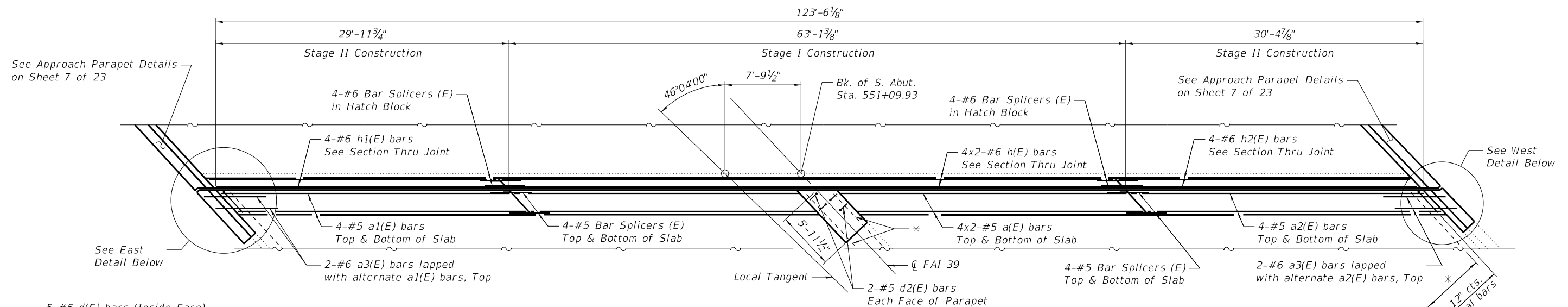
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	39
CONTRACT NO. 70E49				

ILLINOIS FED. AID PROJECT

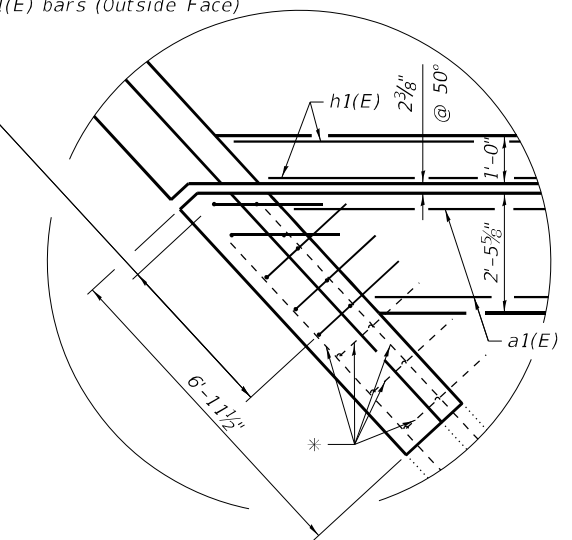


EXISTING PLAN AT EXPANSION JOINT

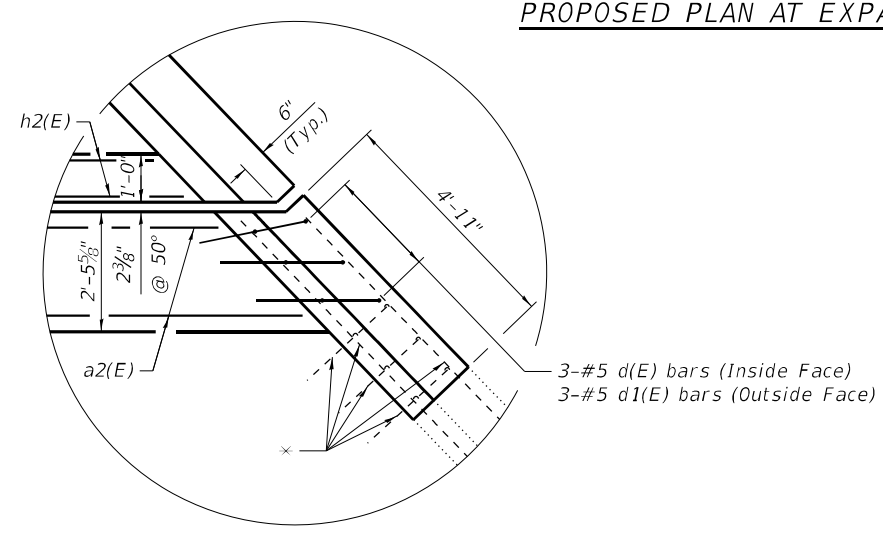
Cross-hatched area indicates limits of Concrete Removal.



PROPOSED PLAN AT EXPANSION JOINT



EAST-DETAIL



WEST-DETAIL

MINIMUM BAR LAP
 #6 bar = 5'-0"
 #5 bar = 3'-7"

* Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

(Sheet 1 of 4)

MODEL: Default
 FILE NAME: 057-0203-70E49-05-08-JointRepairs.dgn



JOB #	2596.5	DESIGNED	AAN	REVISED	
FILE NAME	057-0203-70E49-05-08-JointRepairs.dgn	CHECKED	MDC	REVISED	
PLLOT DATE	1/27/2021	DRAWN	SJS	REVISED	
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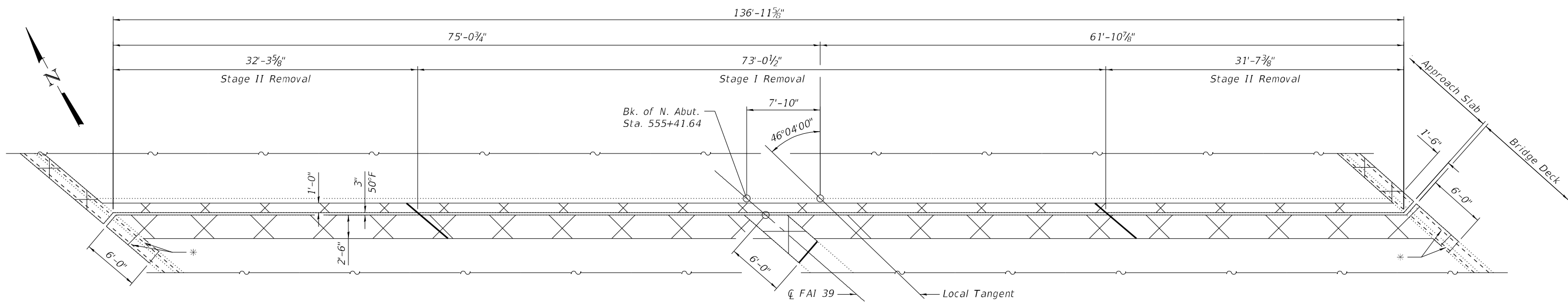
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOUTH ABUTMENTS JOINT REPLACEMENT DETAILS
 STRUCTURE NO. 057-0203**

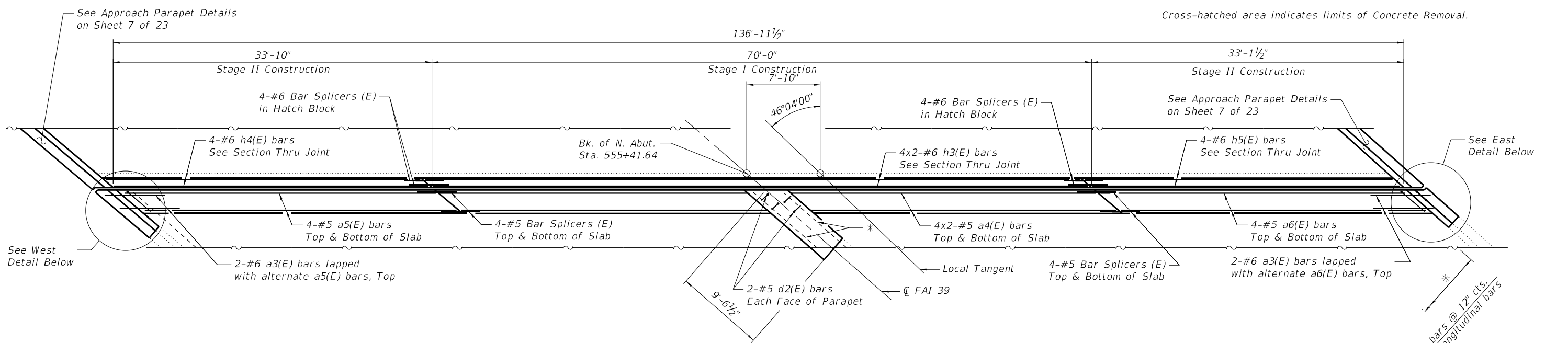
SHEET 5 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHIFTS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	41
CONTRACT NO. 70E49				

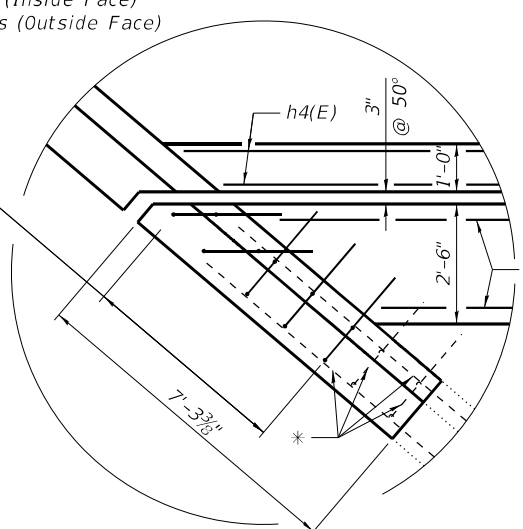
ILLINOIS FED. AID PROJECT



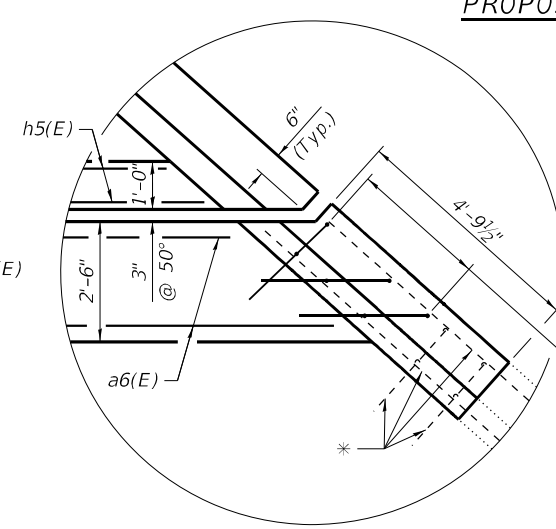
EXISTING PLAN AT EXPANSION JOINT



PROPOSED PLAN AT EXPANSION JOINT



WEST-DETAIL



EAST-DETAIL

MINIMUM BAR LAP
 #6 bar = 5'-0"
 #5 bar = 3'-7"

* Existing longitudinal reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

(Sheet 2 of 4)

MODEL: Default
 FILE NAME: 057-0203-70E49-05-08-JointRepairs.dgn



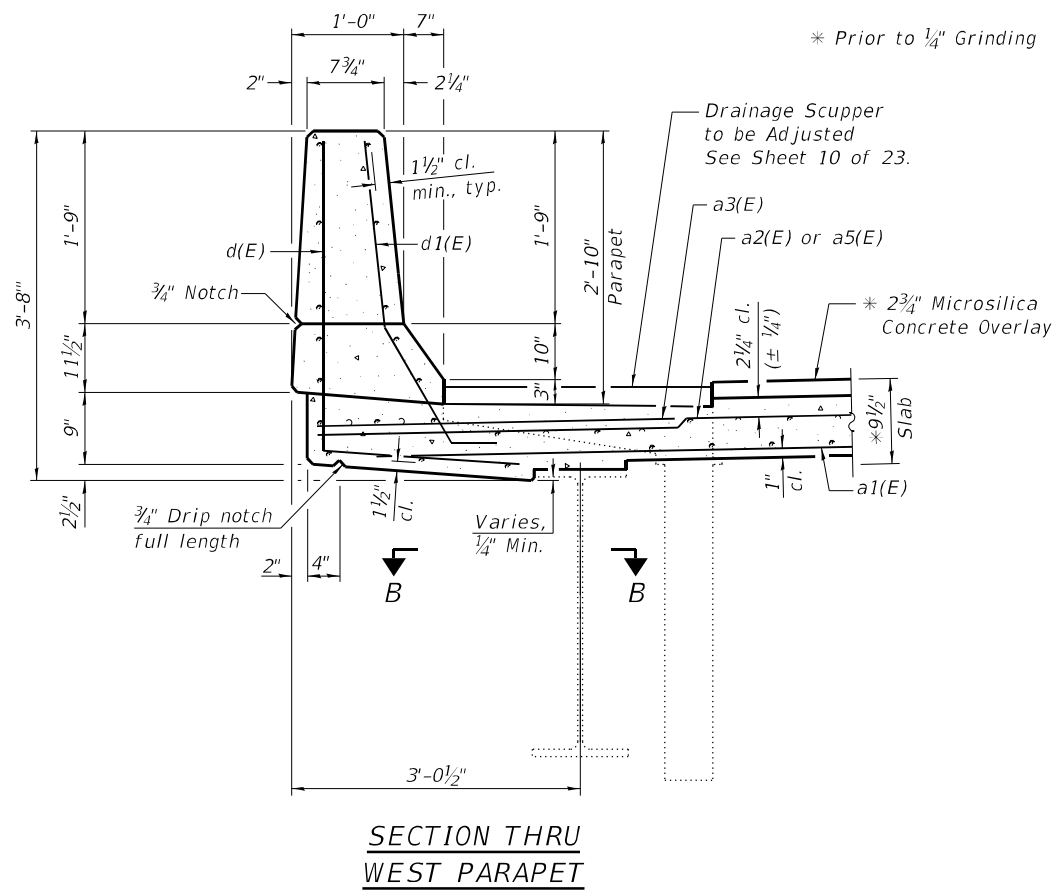
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PLLOT DATE = 1/27/2021	DRAWN , SJS	REVISED ,
	CHECKED , MDC	REVISED ,

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

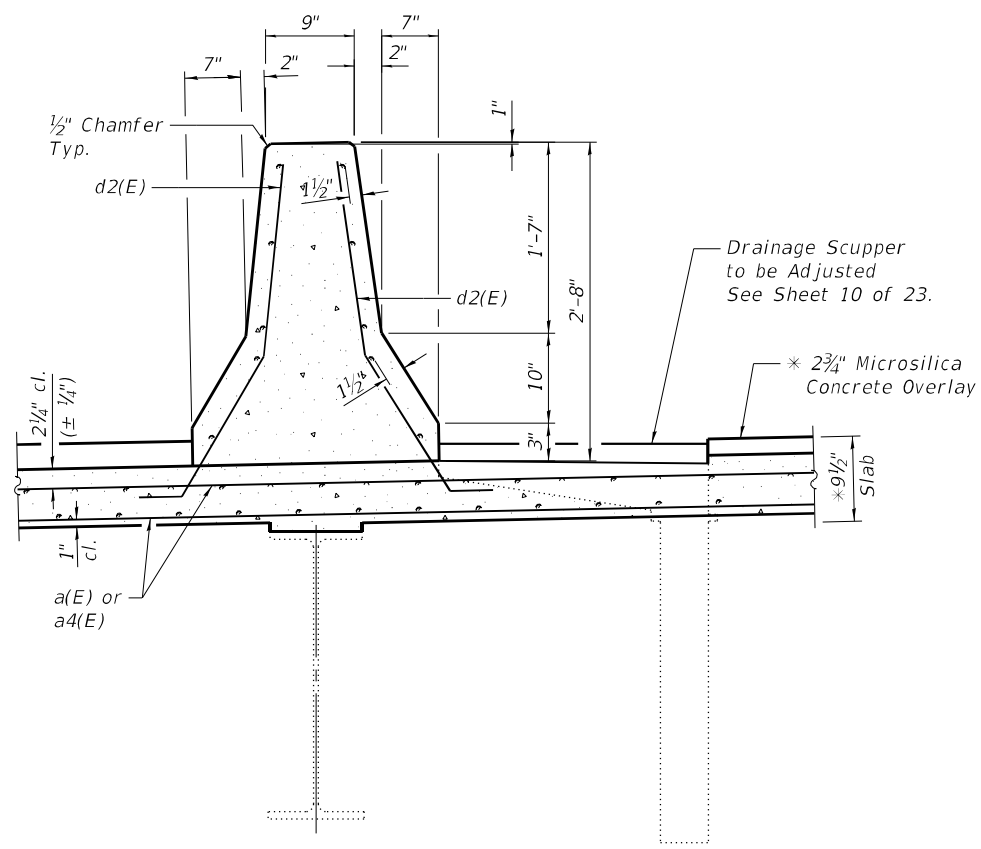
**NORTH ABUTMENTS JOINT REPLACEMENT DETAILS
 STRUCTURE NO. 057-0203**

SHEET 6 OF 23 SHEETS

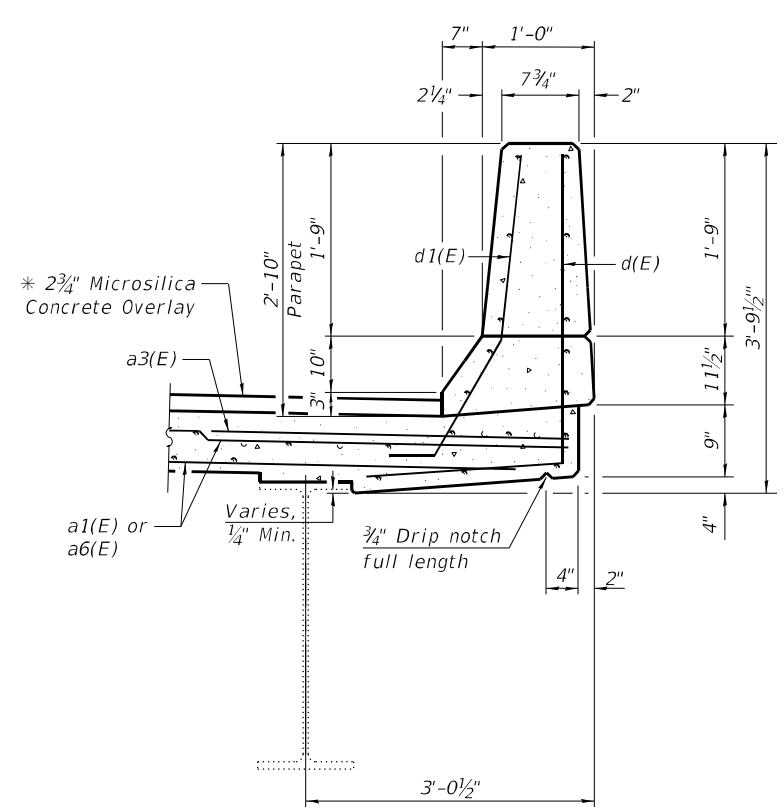
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CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				



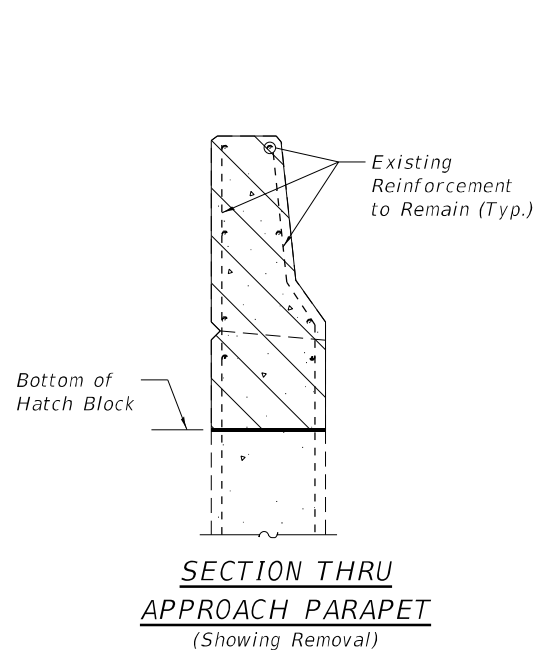
SECTION THRU WEST PARAPET



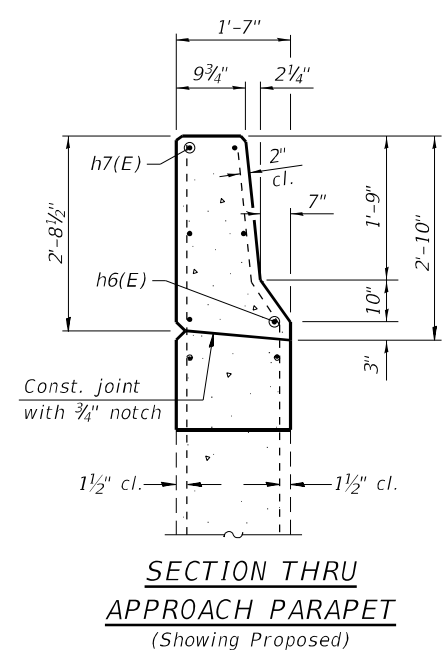
SECTION THRU INTERIOR PARAPET



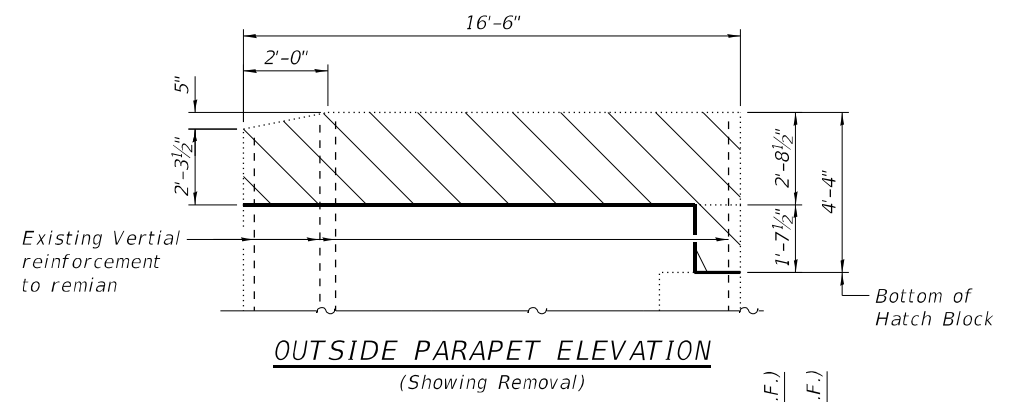
SECTION THRU EAST PARAPET



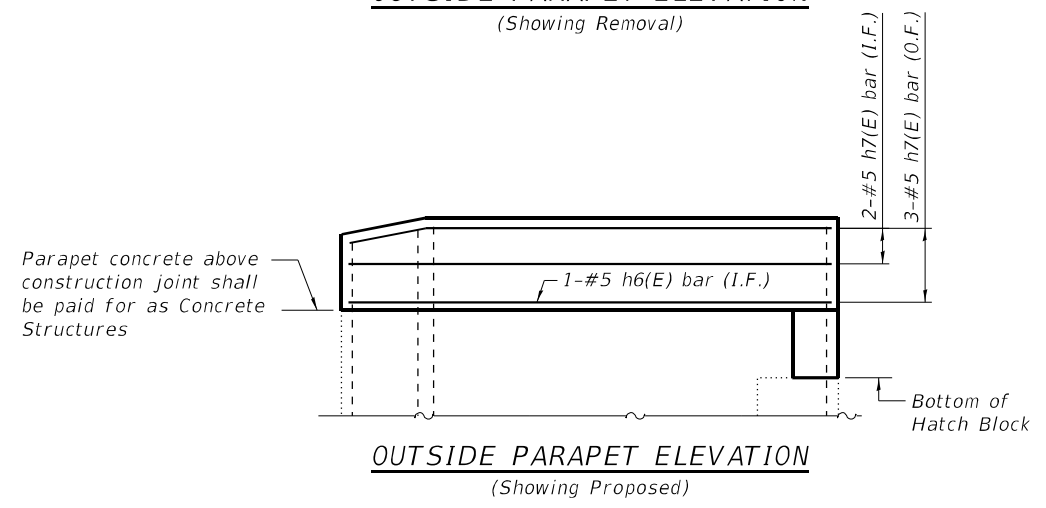
SECTION THRU APPROACH PARAPET (Showing Removal)



SECTION THRU APPROACH PARAPET (Showing Proposed)



OUTSIDE PARAPET ELEVATION (Showing Removal)



OUTSIDE PARAPET ELEVATION (Showing Proposed)

(Sheet 3 of 4)

MODEL: Default
FILE NAME: 057-0203-70E49-05-08-JointRepairs.dgn

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Civil and Structural Engineering

JOB #	2596.5
FILE NAME	057-0203-70E49-05-08-JointRepairs.dgn
PLAT DATE	1/27/2021

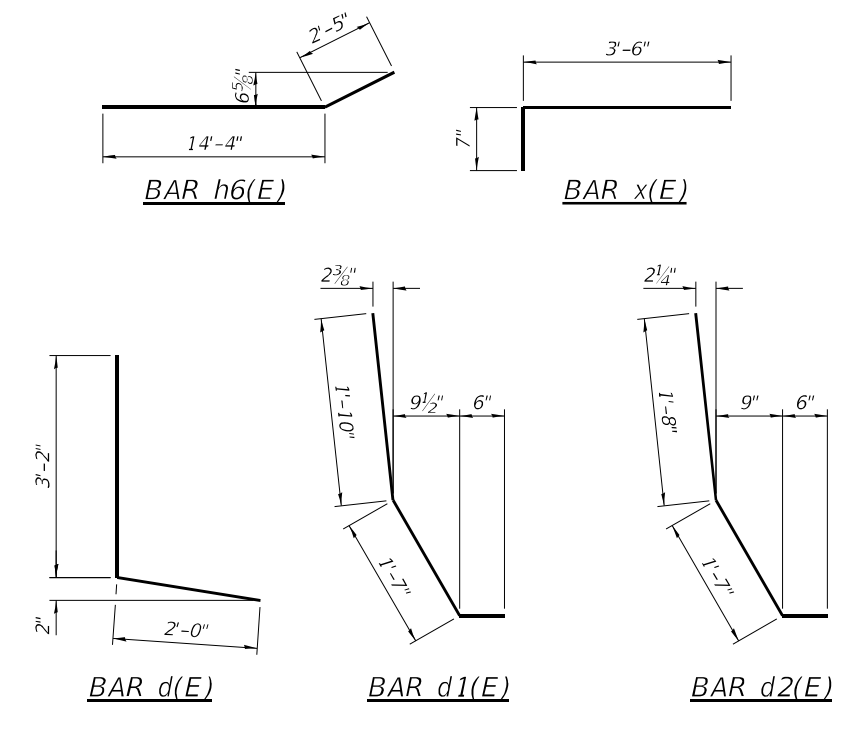
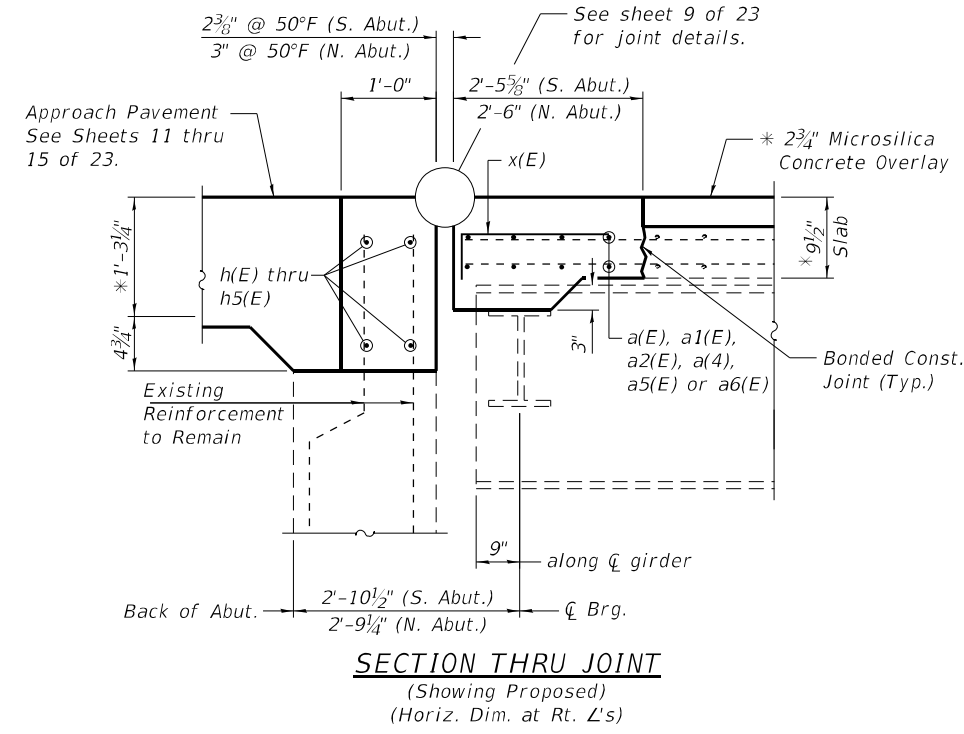
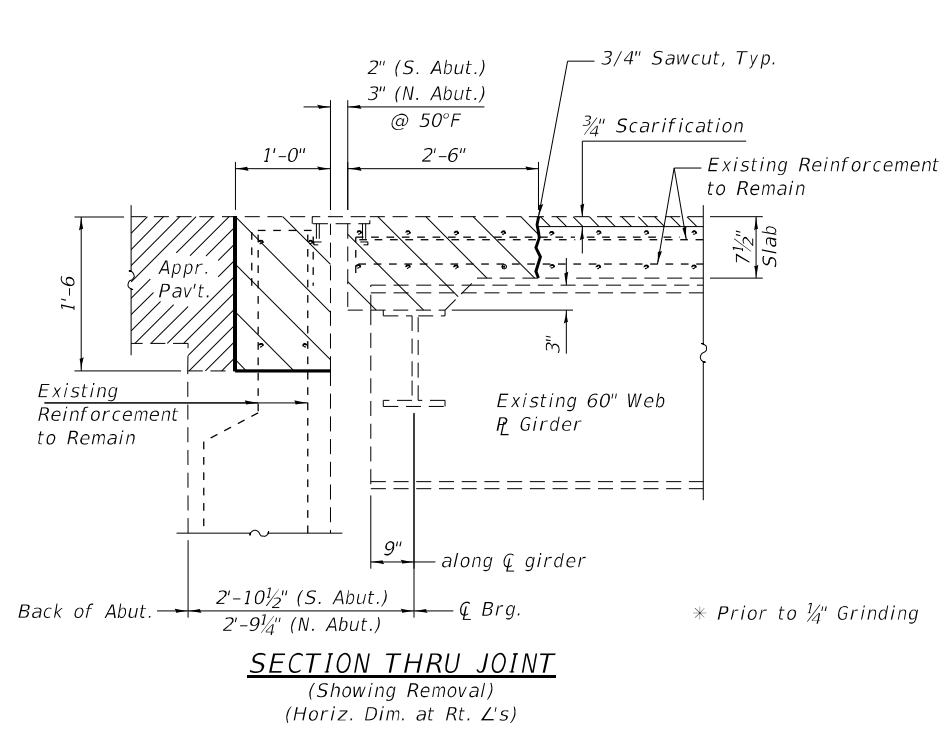
DESIGNED	AAN
CHECKED	MDC
DRAWN	SJS
CHECKED	MDC

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

JOINT REPLACEMENT DETAILS
STRUCTURE NO. 057-0203

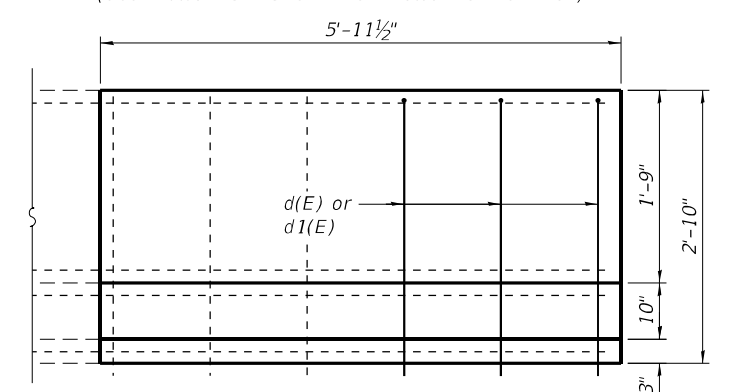
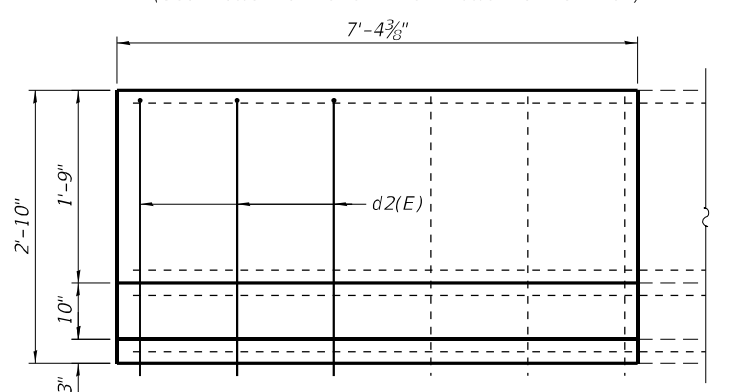
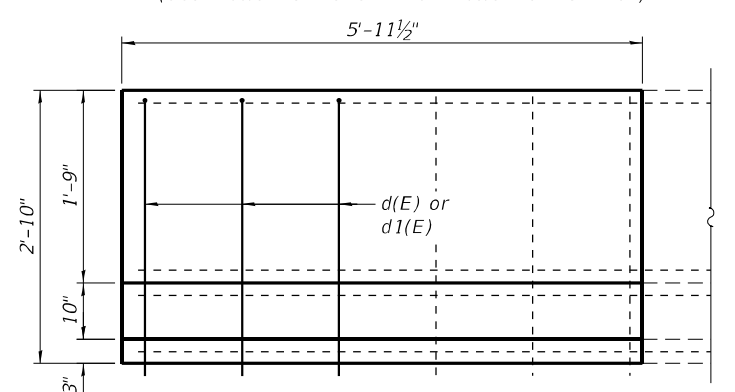
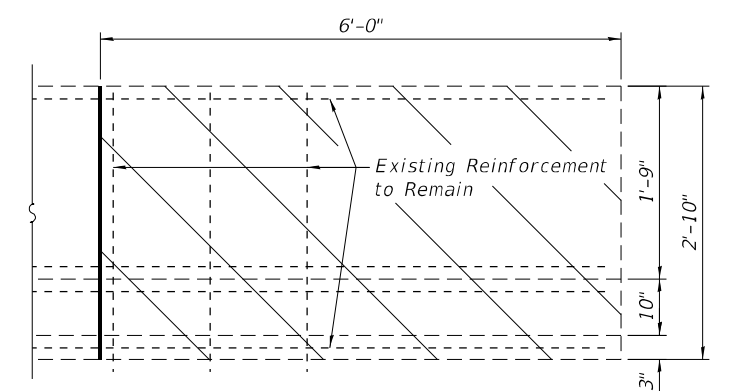
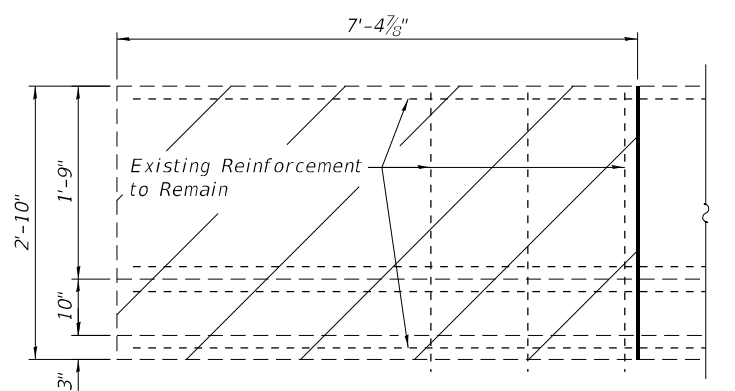
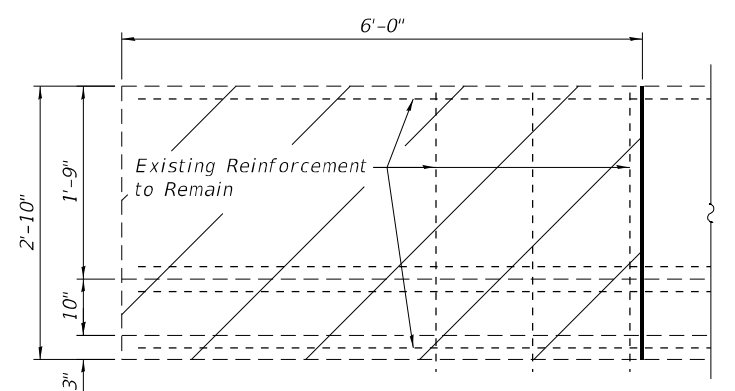
SHEET 7 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	43
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				



**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	16	#5	33'-3"	—
a1(E)	8	#5	31'-3"	—
a2(E)	8	#5	31'-8"	—
a3(E)	8	#6	6'-6"	—
a4(E)	16	#5	36'-8"	—
a5(E)	8	#5	35'-2"	—
a6(E)	8	#5	34'-5"	—
d(E)	32	#5	5'-2"	L
d1(E)	32	#5	3'-11"	L
d2(E)	8	#5	3'-9"	L
h(E)	16	#6	33'-11"	—
h1(E)	8	#6	29'-8"	—
h2(E)	8	#6	30'-0"	—
h3(E)	16	#6	37'-4"	—
h4(E)	8	#6	33'-6"	—
h5(E)	8	#6	32'-9"	—
h6(E)	4	#5	16'-9"	—
h7(E)	20	#5	16'-2"	—
x(E)	180	#5	4'-1"	—
Reinforcement Bars, Epoxy Coated		Pound	7,090	
Concrete Superstructure		Cu. Yd.	43.3	
Concrete Removal		Cu. Yd.	46.1	
Concrete Structures		Cu. Yd.	7.3	



Notes:
Hatched areas indicate limits of Concrete Removal.
Existing reinforcement to remain shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete removal.

MODEL: Default
FILE NAME: 057-0203-70E49-05-08-JointRepairs.dgn

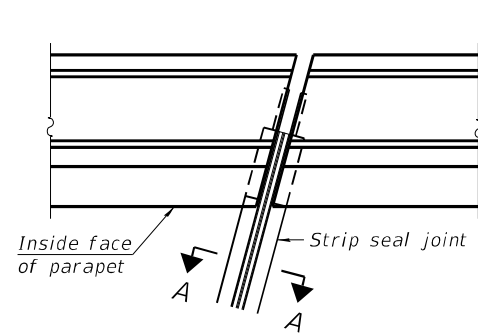


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PLLOT DATE = 1/27/2021	DRAWN , SJS	REVISED ,
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

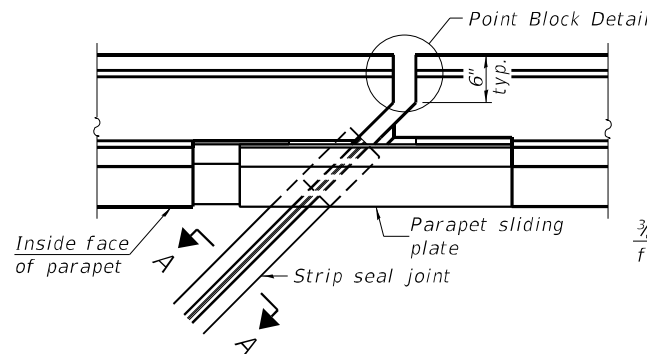
JOINT REPLACEMENT DETAILS
STRUCTURE NO. 057-0203

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	44
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				

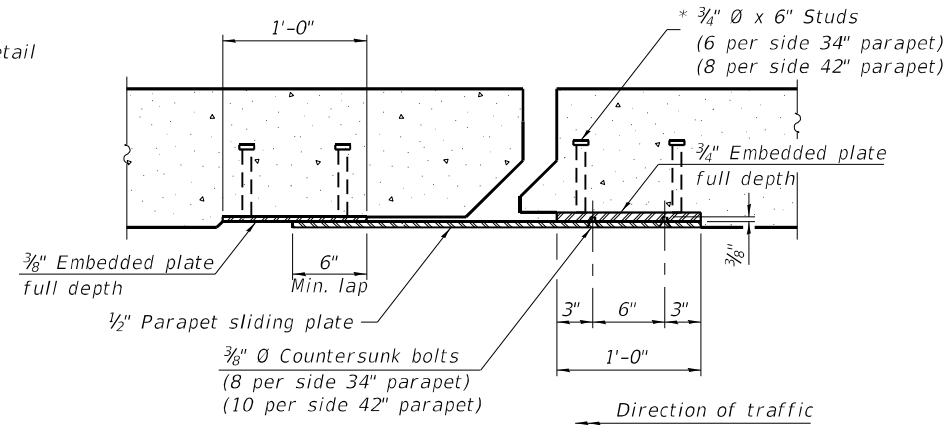


FOR SKEWS $\leq 30^\circ$

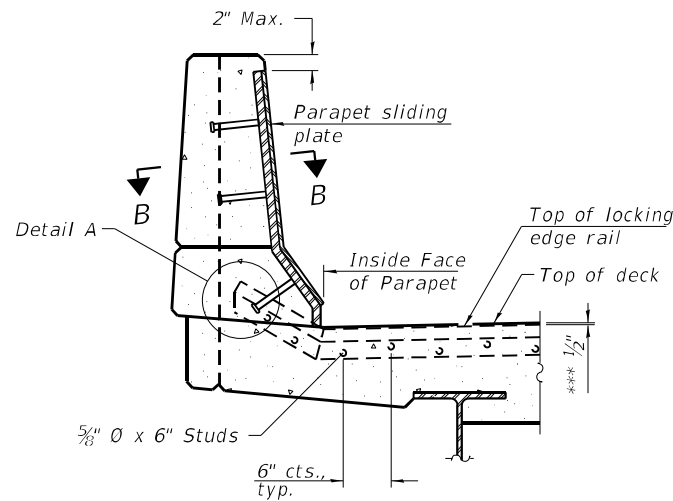
PLAN AT PARAPET



FOR SKEWS $> 30^\circ$

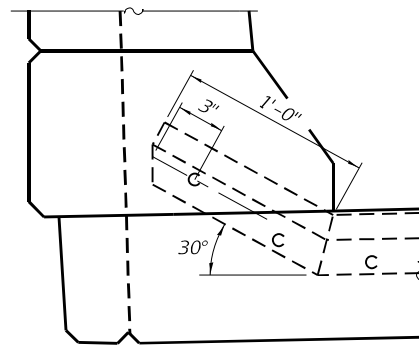


SECTION B-B



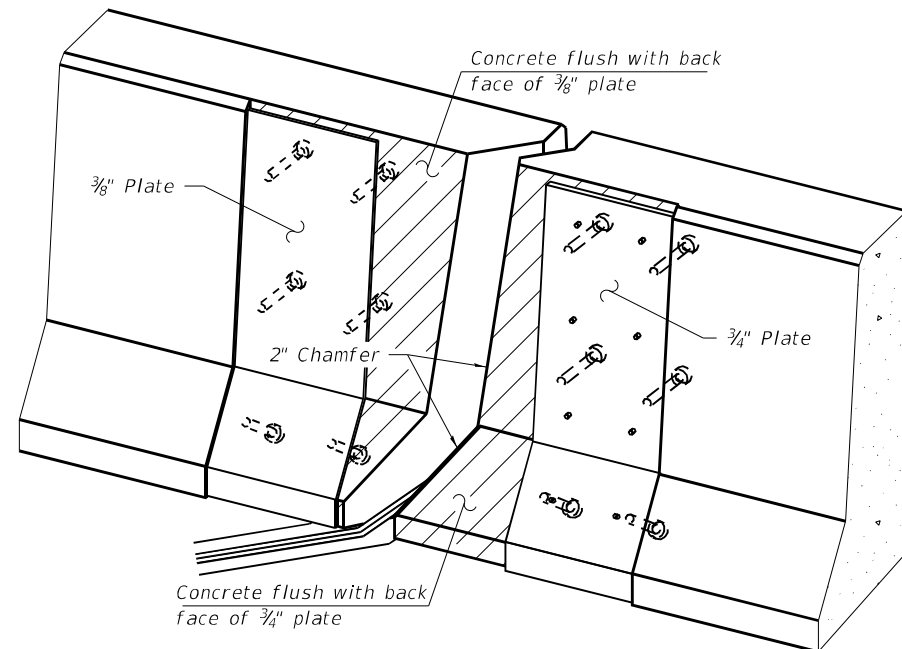
ELEVATION AT PARAPET

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

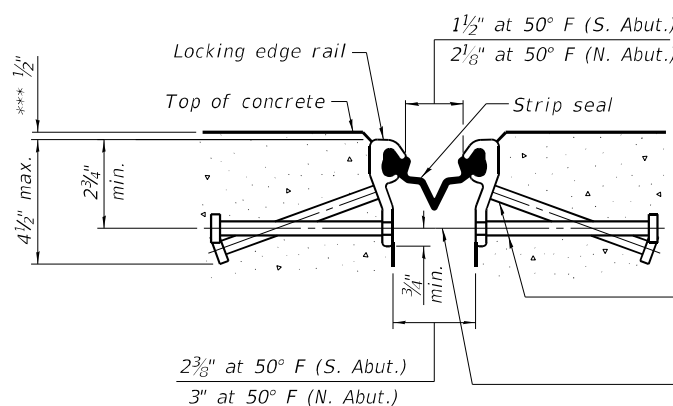


DETAIL A

*** Prior to 1/4 inch grinding



TRIMETRIC VIEW
(Showing embedded plates only)



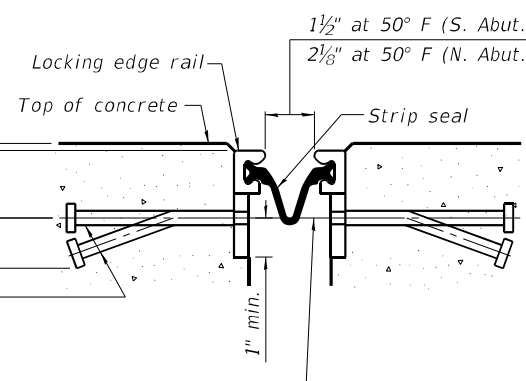
SHOWING ROLLED RAIL JOINT

* 5/8 inch diameter x 6 inch studs @ 6 inch centers. (alternate angled/bent studs with horizontal studs)

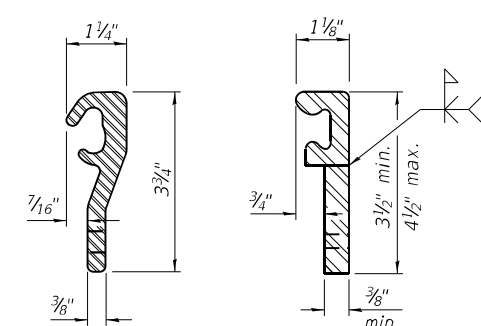
3/8 inch diameter threaded rods in 7/16 inch diameter holes at ± 4 -0 inch centers for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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



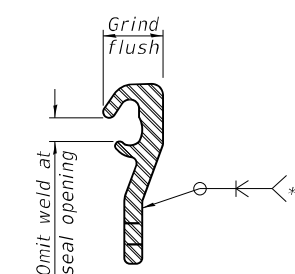
SHOWING WELDED RAIL JOINT



LOCKING EDGE RAILS
ROLLED (EXTRUDED) RAIL WELDED RAIL

LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	267

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4 inch. The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2 inch maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

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

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

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

34 inch F-shape barrier shown, 42 inch F-shape similar as noted. The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

DETAIL FOR DRAINAGE SCUPPERS TO BE ADJUSTED

S.N. 057-0203

NOTES:

ALL STRUCTURAL STEEL SHALL BE AASHTO M270 GRADE 36. THE ADJUSTING SCUPPER RING AND $\frac{3}{4}$ " \varnothing PIPE SLEEVE SPACERS SHALL BE GALVANIZED.

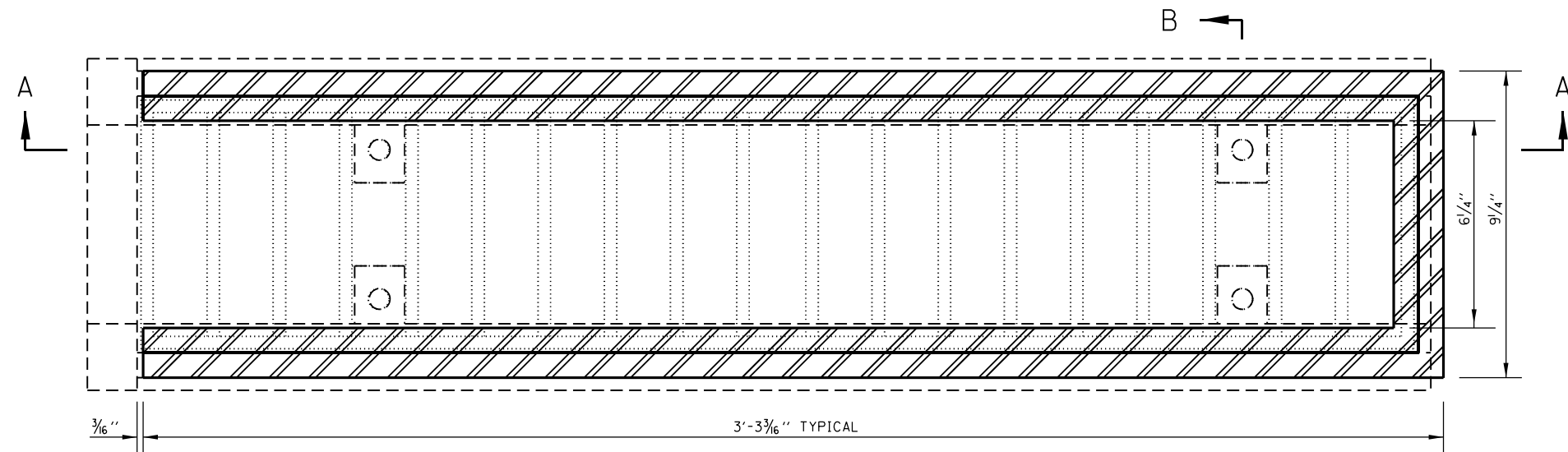
BOLTS SHALL BE $\frac{1}{2}$ " \varnothing AASHTO M164 TYPE 1, MECHANICALLY GALVANIZED.

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

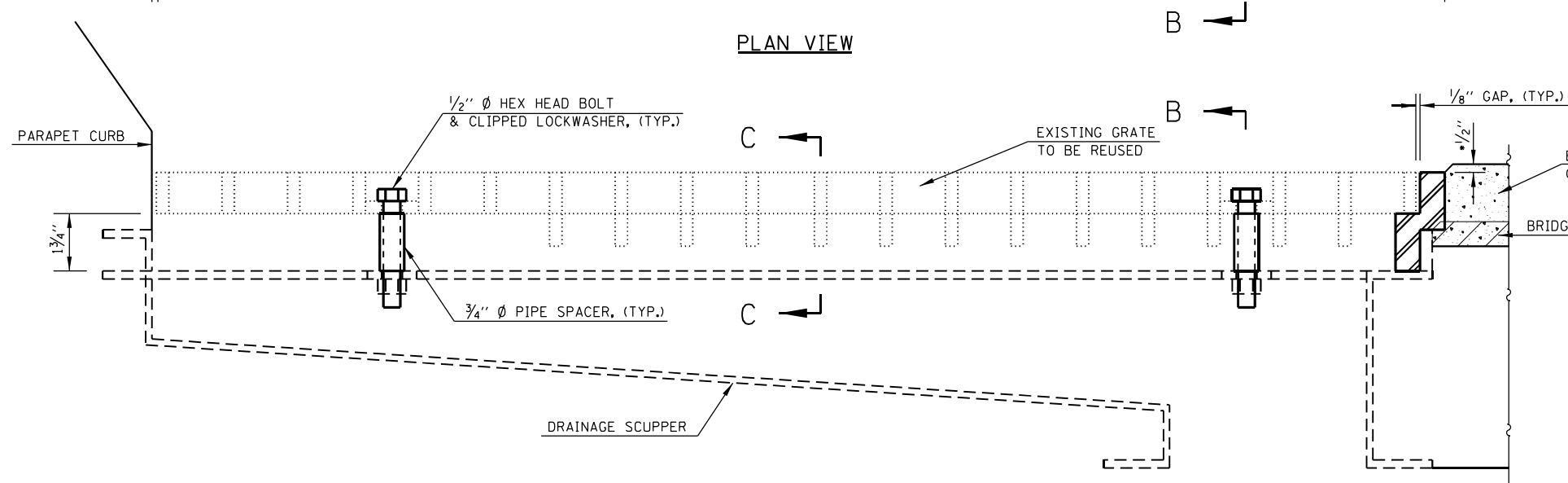
SHOP PLANS FOR PROPOSED ADJUSTING SCUPPER RING SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION.

ADJUSTING SCUPPER RINGS ARE INCLUDED IN THE COST PER UNIT EACH OF "DRAINAGE SCUPPERS TO BE ADJUSTED".

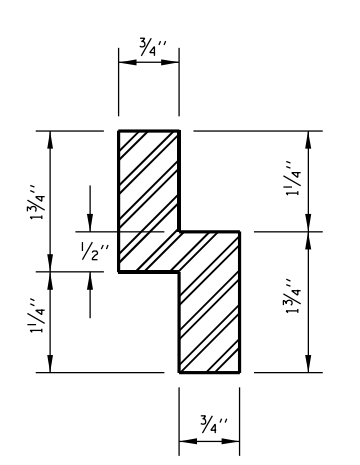
LEGEND



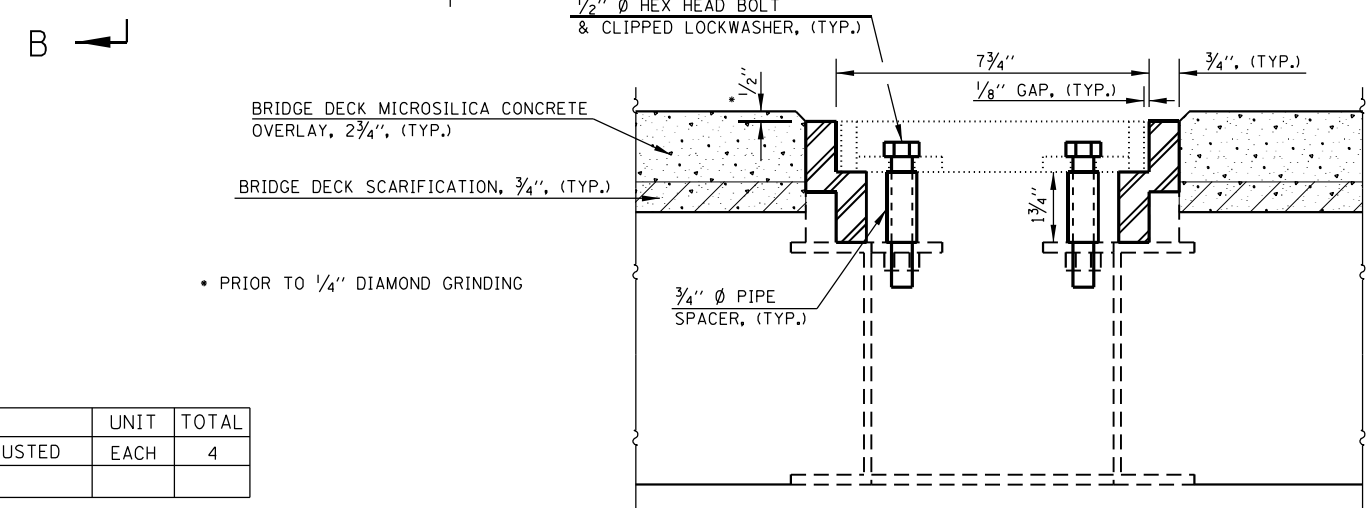
PLAN VIEW



SECTION C-C



ADJUSTING SCUPPER RING



SECTION B-B

BILL OF MATERIALS

ITEM	UNIT	TOTAL
DRAINAGE SCUPPERS TO BE ADJUSTED	EACH	4

MODEL: Default
FILE NAME: 057-0203-70E49-10-Scupper.dgn



JOB #	2596.2	DESIGNED	AAN	REVISED	
FILE NAME	057-0203-70E49-10-Scupper.dgn	CHECKED	MDC	REVISED	
PLLOT DATE	1/27/2021	DRAWN	SJS	REVISED	
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**STATE OF ILLINOIS
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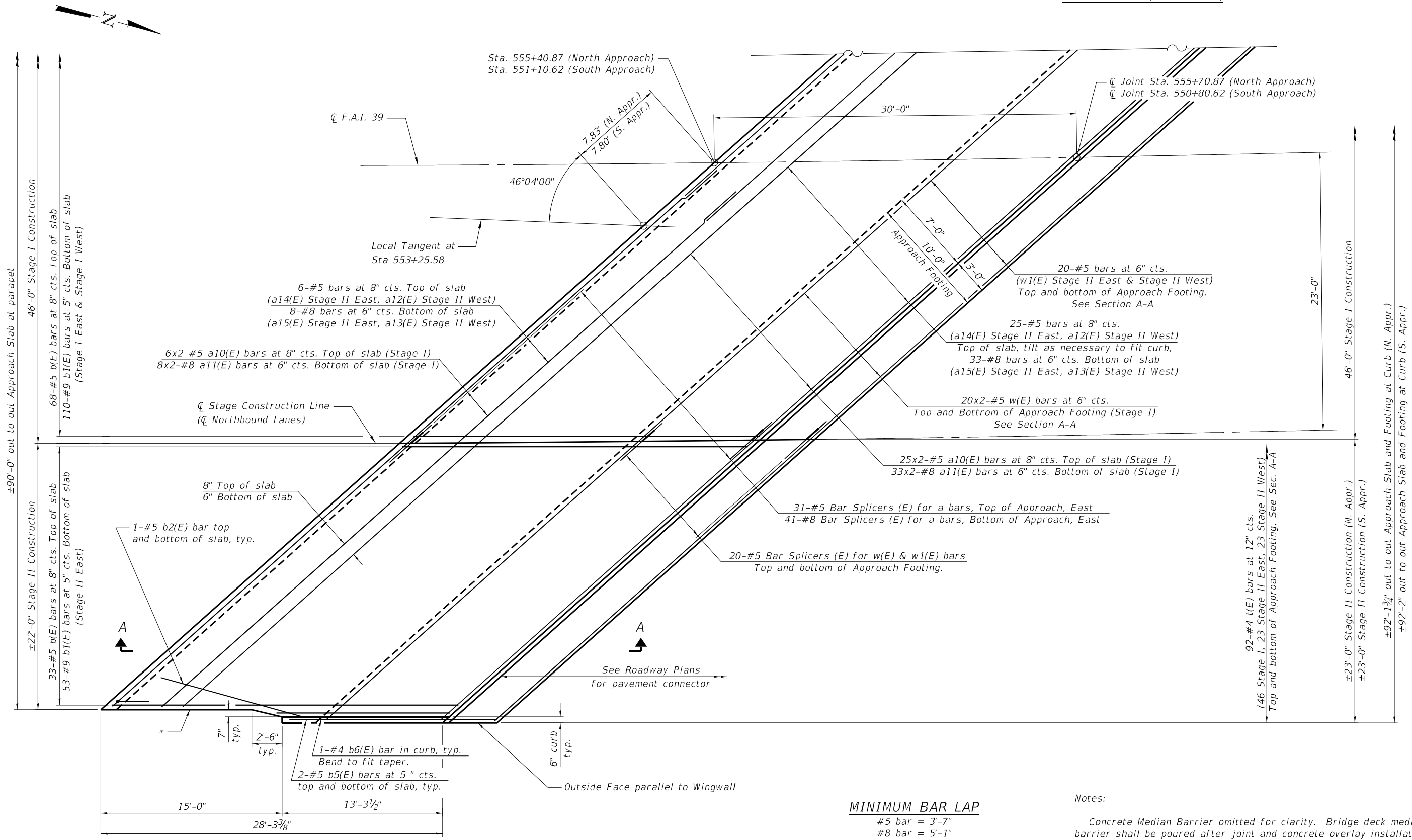
**DRAINAGE SCUPPERS ADJUSTMENT RING DETAIL
STRUCTURE NO. 057-0203**

SHEET 10 OF 23 SHEETS

F.A.I. (RTE.)	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	46
CONTRACT NO. 70E49				

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SEE WEST PLAN (SOUTHBOUND)



EAST PLAN (NORTHBOUND)
 North Approach (Northbound) shown,
 South Approach (Southbound) similar

MINIMUM BAR LAP
 #5 bar = 3'-7"
 #8 bar = 5'-1"

Notes:
 Concrete Median Barrier omitted for clarity. Bridge deck median barrier shall be poured after joint and concrete overlay installation. Cost included with Concrete Superstructure.
 See Sheet 4 of 5 for details of concrete median barrier installation at approach slabs.

* Performed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.

(Sheet 1 of 5)

MODEL: Default
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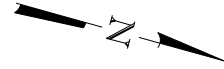
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PLOT DATE = 1/27/2021	DRAWN , SJS	REVISED ,
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**STATE OF ILLINOIS
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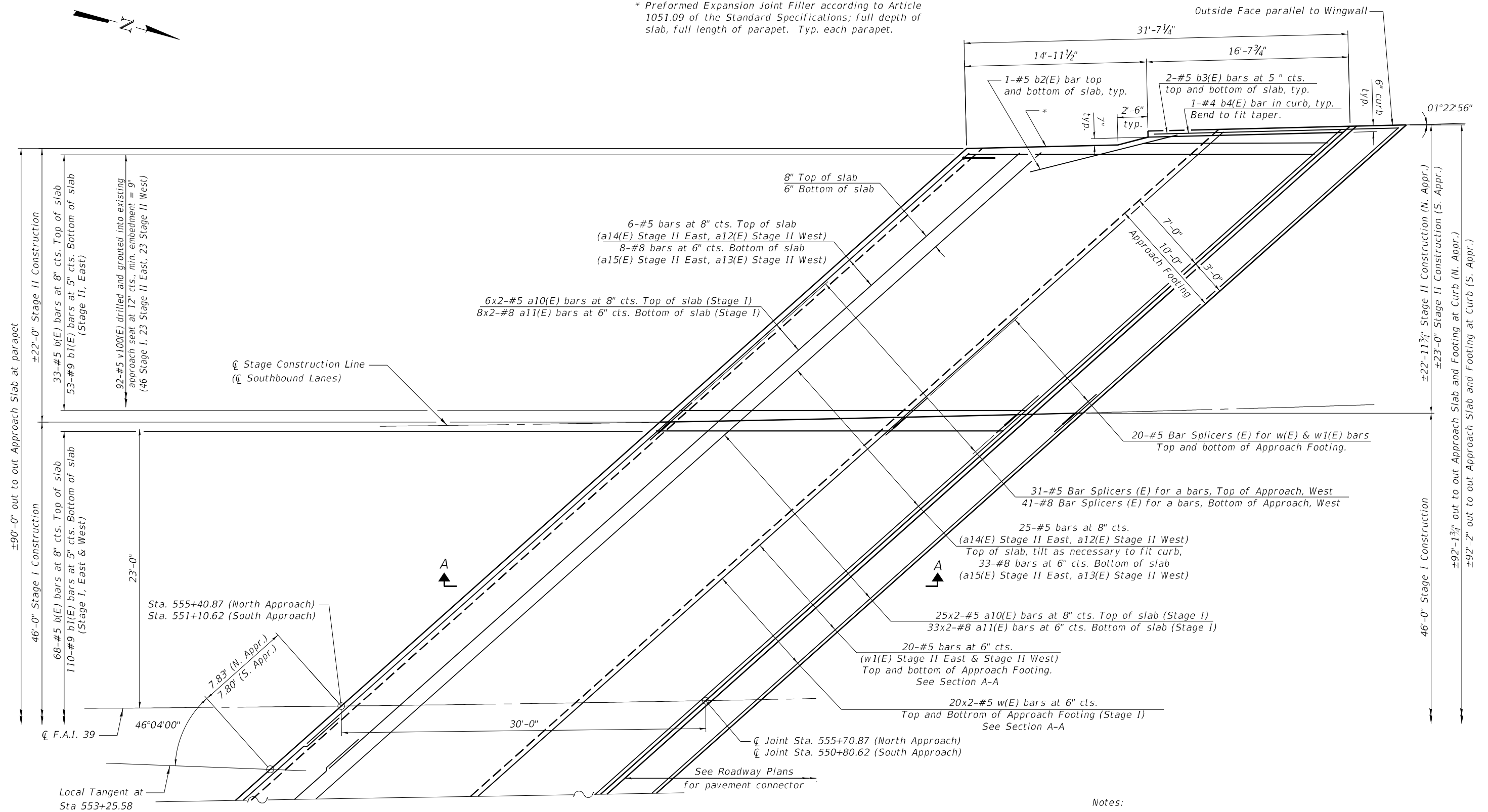
**BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 057-0203**

SHEET 11 OF 23 SHEETS

F.A.I. RTE. 39	SECTION (57-4B-1)BR	COUNTY McLEAN	TOTAL SHEETS 59	SHEET NO. 47
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				



* Prefomed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.



SEE EAST PLAN (NORTHBOUND)

WEST PLAN (SOUTHBOUND)

North Approach (Southbound) shown,
South Approach (Northbound) similar

MINIMUM BAR LAP

#5 bar = 3'-7"
#8 bar = 5'-1"

Notes:

Concrete Median Barrier omitted for clarity. Bridge deck median barrier shall be poured after joint and concrete overlay installation. Cost included with Concrete Superstructure.

See Sheet 4 of 5 for details of concrete median barrier installation at approach slabs.

(Sheet 2 of 5)

MODEL: \$MODELNAME\$
FILE NAME: \$FILEL\$



JOB = 2596.2
FILE NAME = \$FILEL\$
PLOT DATE = \$DATE\$

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DRAWN , SJS
CHECKED , MDC

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REVISED ,
REVISED ,

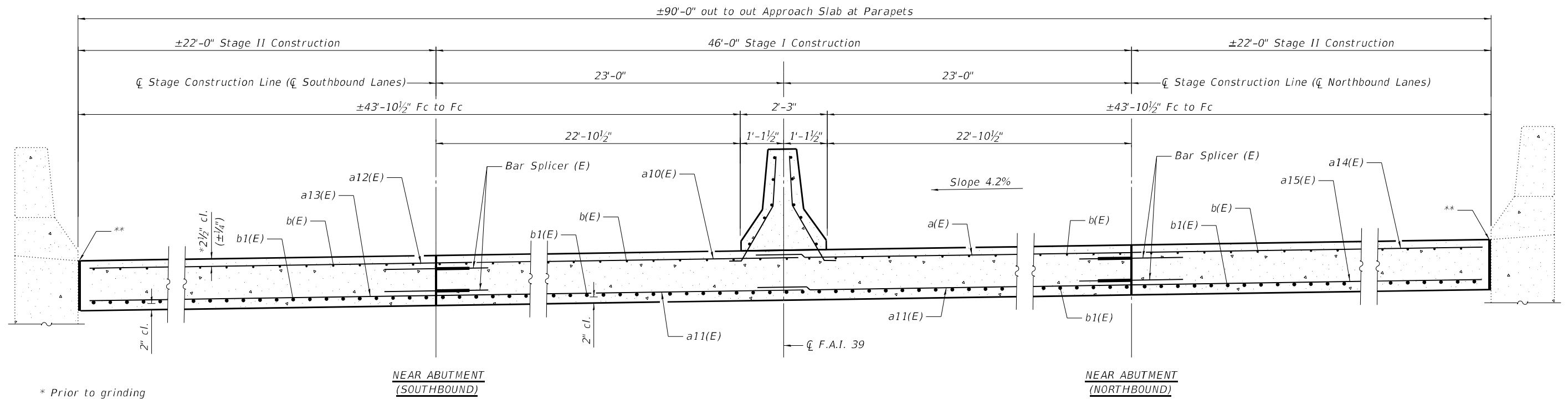
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 057-0203

SHEET 12 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	48
CONTRACT NO. 70E49				

ILLINOIS FED. AID PROJECT



* Prior to grinding

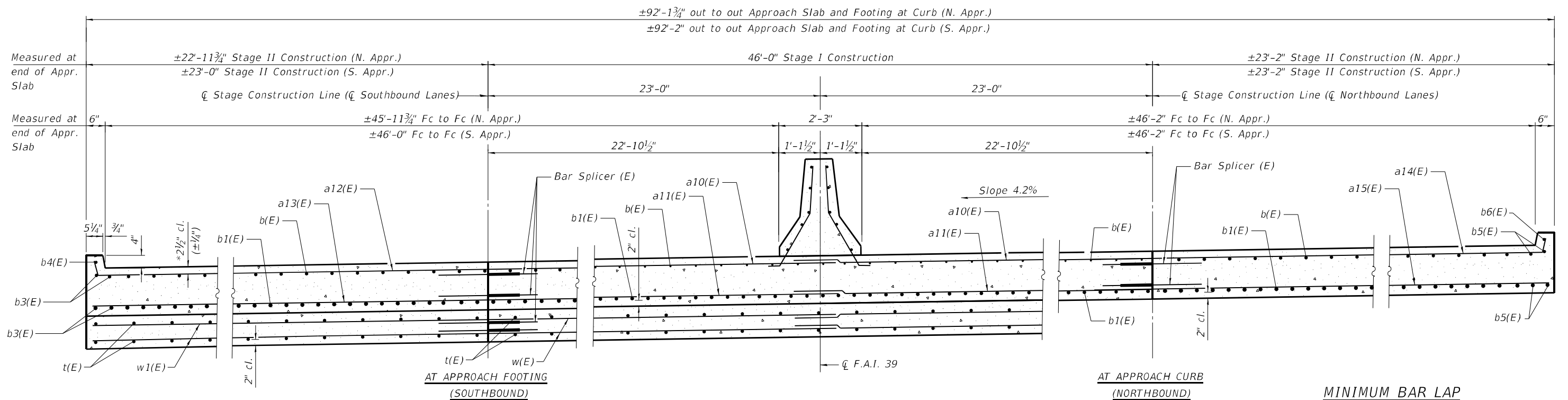
** Preformed Expansion Joint Filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Typ. each parapet.

CROSS SECTION AT PARAPETS

(Looking North)

(North Approach shown, South Approach similar)

All Dimensions Radial to \bar{C} F.A.I. 39 unless noted otherwise



MINIMUM BAR LAP

#5 bar = 3'-7"
#8 bar = 5'-1"

CROSS SECTION AT CURB

(Looking North)

(North Approach shown, South Approach similar)

All Dimensions Radial to \bar{C} F.A.I. 39 unless noted otherwise

(Sheet 3 of 5)

MODEL: Default
FILE NAME: 057-0203-70E49-11-15-ApprSlabs.dgn



JOB = 2596.2	DESIGNED , AAN	REVISED ,
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PLLOT DATE = 1/27/2021	DRAWN , SJS	REVISED ,
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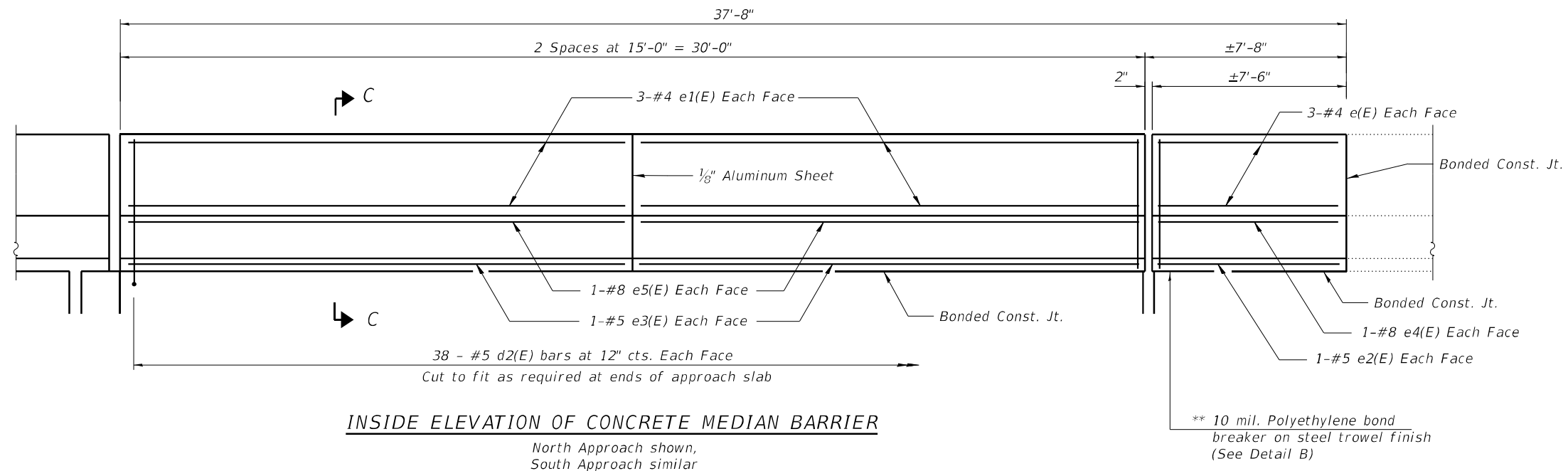
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 057-0203**

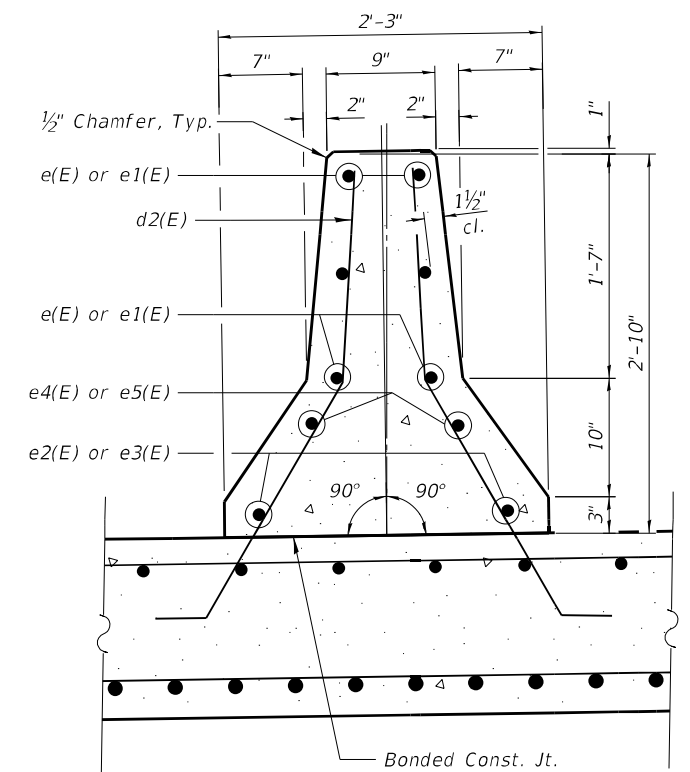
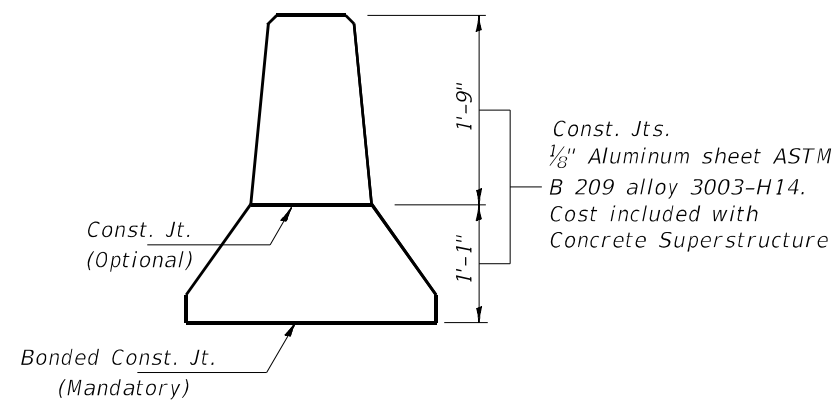
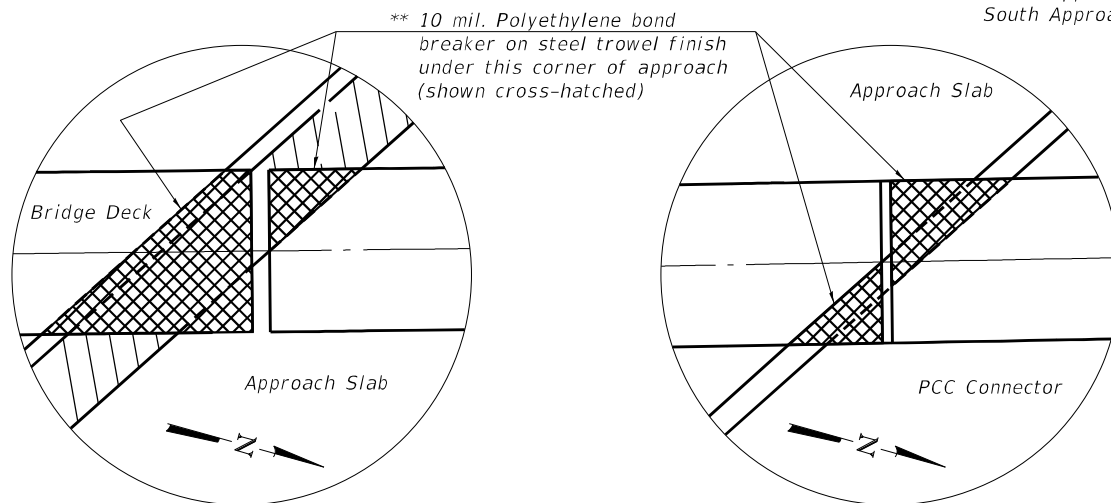
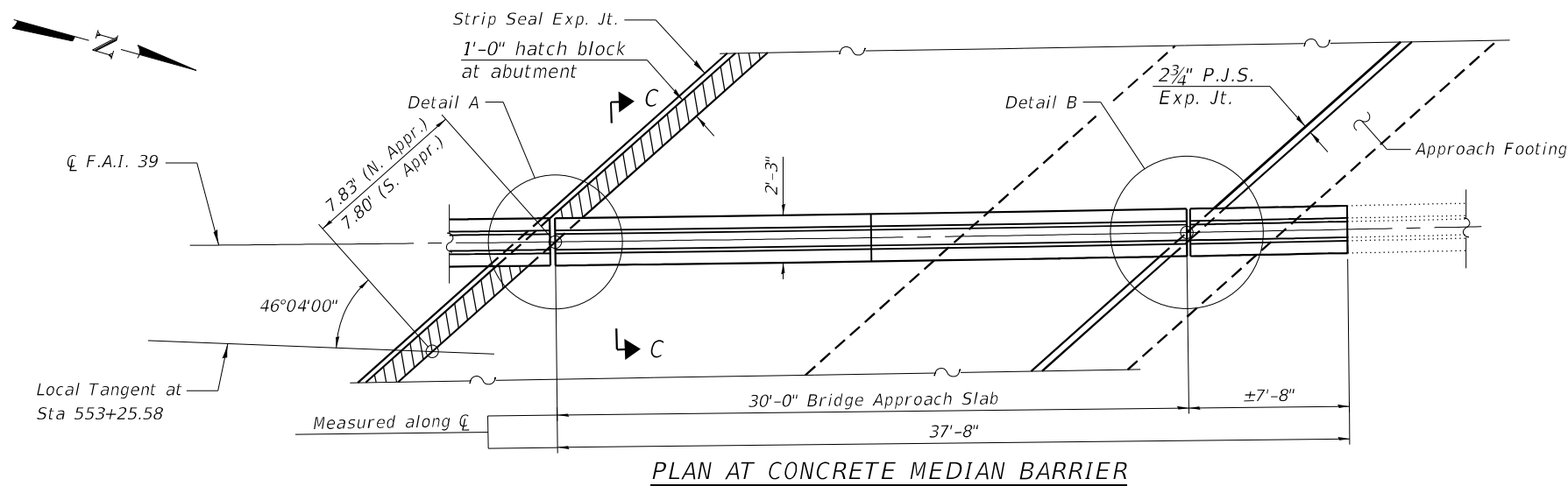
SHEET 13 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	49
CONTRACT NO. 70E49				

ILLINOIS FED. AID PROJECT



** Cost included with Concrete Superstructure (Approach Slab).



(Sheet 4 of 5)

MODEL: Default
 FILE NAME: 057-0203-70E49-11-15-ApprSlabs.dgn



JOB #	2596.2
FILE NAME	= 057-0203-70E49-11-15-ApprSlabs.dgn
PLLOT DATE	= 1/27/2021

DESIGNED	AAN	REVISED	
CHECKED	MDC	REVISED	
DRAWN	SJS	REVISED	
CHECKED	MDC	REVISED	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 057-0203

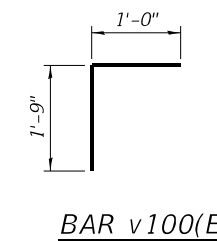
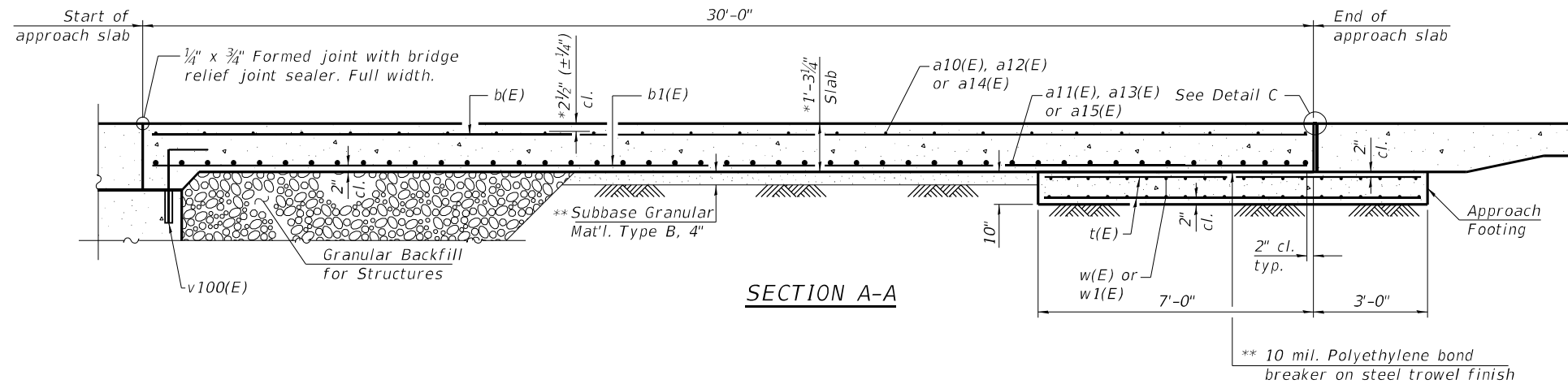
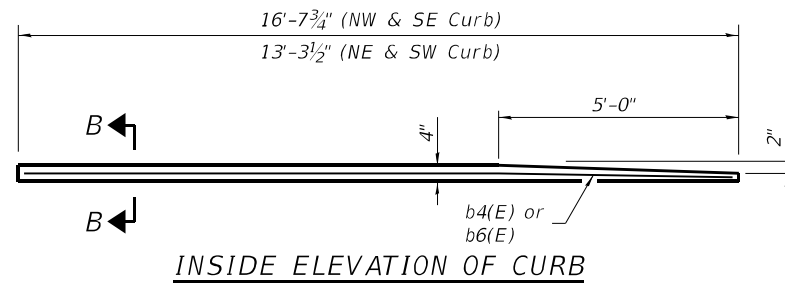
SHEET 14 OF 23 SHEETS

F.A.I. (RTE.)	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	50
CONTRACT NO. 70E49				

ILLINOIS FED. AID PROJECT

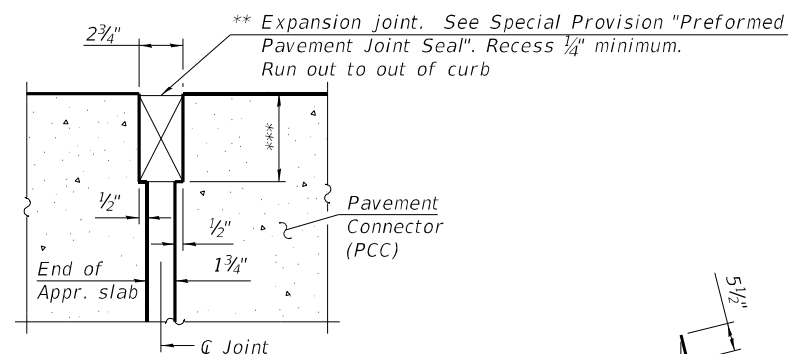
Notes:
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 Concrete median barrier shall be poured after joint, hatch block, and approach slab installation. Cost included with Concrete Superstructure (Approach Slab).
 Existing horizontal reinforcement which extends from the existing concrete median barrier into the proposed concrete areas is to be cut off, flush and covered with a layer of epoxy. Cost included in Approach Slab Removal. See Roadway Plans.
 Existing vertical reinforcement which extends from the existing connector pavement into the proposed median barrier is to be preserved, cleaned and incorporated into the new construction. Cost included in Approach Slab Removal. See Roadway Plans.
 For bridge deck and concrete median barrier reconstruction at expansion joints see Joint Repairs. Cost included in Concrete Superstructure.

- * Prior to 1/4" grinding
- ** Cost included with Concrete Superstructure (Approach Slab).
- *** Per manufacturer recommendations

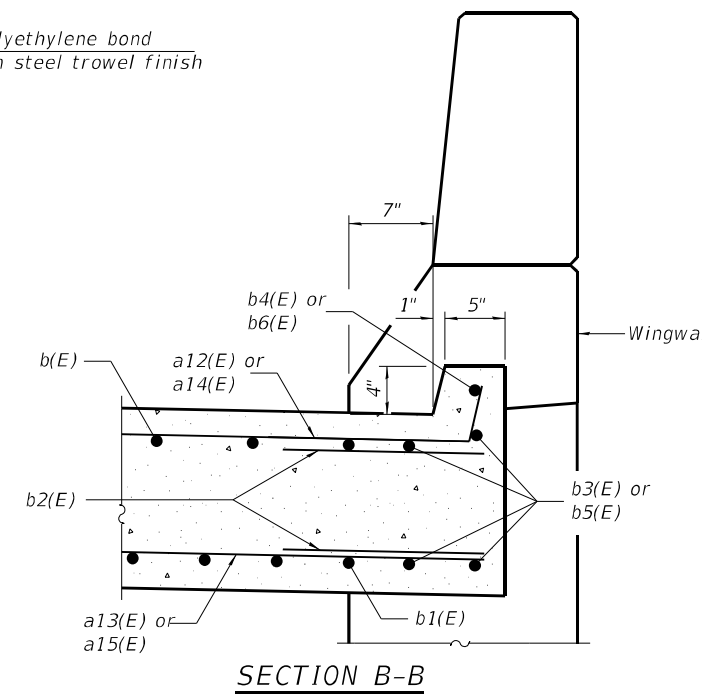
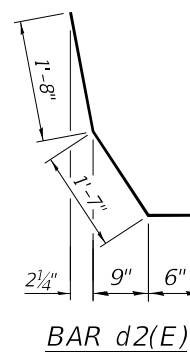
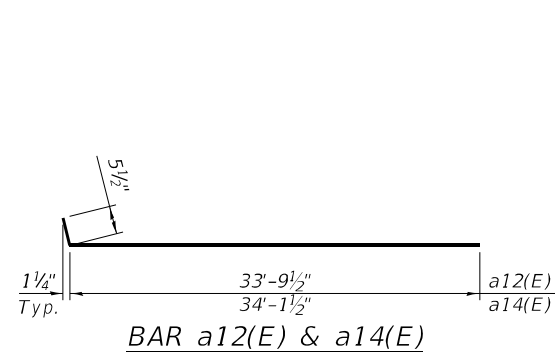


**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	124	#5	35'-11"	—
a11(E)	164	#8	36'-8"	—
a12(E)	62	#5	34'-2"	—
a13(E)	82	#8	33'-10"	—
a14(E)	62	#5	34'-7"	—
a15(E)	82	#8	34'-3"	—
b(E)	116	#5	29'-8"	—
b1(E)	116	#9	29'-8"	—
b2(E)	8	#5	12'-0"	—
b3(E)	8	#5	16'-4"	—
b4(E)	2	#4	16'-4"	—
b5(E)	8	#5	13'-0"	—
b6(E)	2	#4	13'-0"	—
d2(E)	152	#5	3'-9"	┘
e(E)	12	#4	7'-3"	—
e1(E)	24	#4	14'-9"	—
e2(E)	4	#5	7'-3"	—
e3(E)	8	#5	14'-9"	—
e4(E)	4	#8	7'-3"	—
e5(E)	8	#8	14'-9"	—
t(E)	184	#4	14'-5"	—
w(E)	80	#5	36'-1"	—
w1(E)	80	#5	34'-1"	—
v100(E)	268	#5	2'-9"	┘
Concrete Superstructure (Approach Slab)		Cu. Yd.	269.7	
Concrete Structures		Cu. Yd.	82.1	
Reinforcement Bars, Epoxy Coated		Pound	65,560	
Bar Splicers		Each	448	



(Detail A shown, applies to Highway Standard 420401 only.
 Detail A for pavement connector (HMA) may be found on Highway Standard 420406.)



(Sheet 5 of 5)

MODEL: Default
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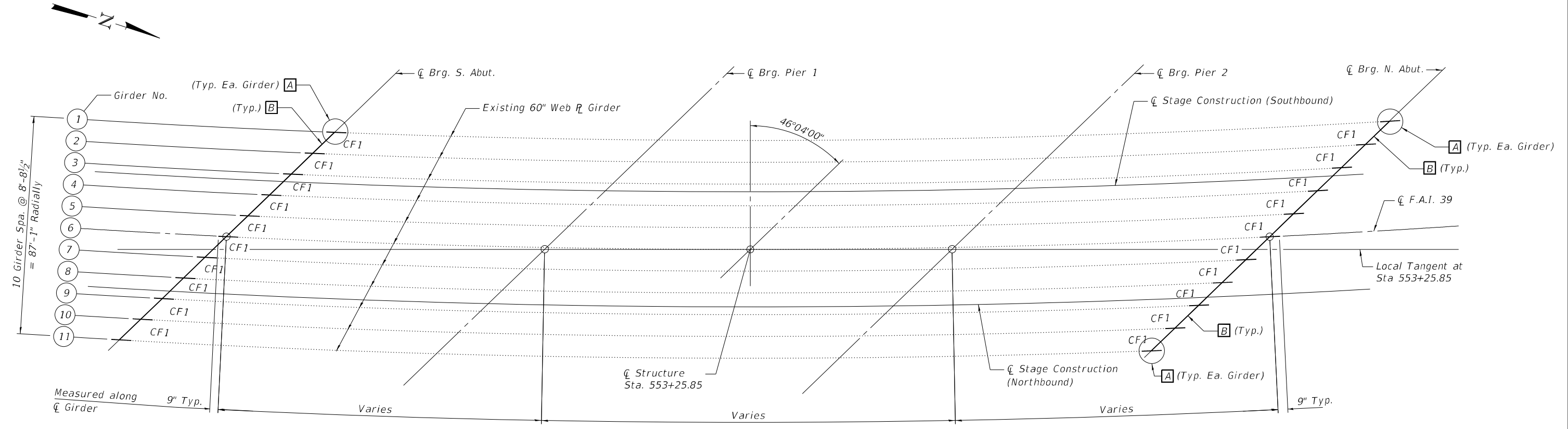
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STATE OF ILLINOIS
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BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 057-0203

SHEET 15 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	51
CONTRACT NO. 70E49				
ILLINOIS		FED. AID PROJECT		



PLAN

PLATE GIRDER REPAIR NOTES:

- A** - Structural steel repair and bearing replacement
- B** - Remove and replace end cross frames

NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 50, unless otherwise noted.

All structural steel shall be shop painted with inorganic zinc rich primer per AASHTO M300, Type I. Cost included with Structural Steel Repairs.

Fasteners shall be high strength bolts. Bolts $\frac{3}{4}$ " ϕ , open holes $1\frac{1}{16}$ " ϕ , unless otherwise noted.

Diaphragm connection holes shall be $1\frac{1}{16}$ " ϕ holes for $\frac{3}{4}$ " ϕ HS bolts. Two hardened washers shall be required at diaphragm connection R 's.

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

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All new structural steel and bearing assemblies shall be hot-dipped galvanized. See Special Provision for "Hot-Dip Galvanizing for Structural Steel".

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

BOLT HOLE LEGEND

- \circ - Field drill holes in new steel using existing steel as template
- \bullet - Shop drill holes in new steel. Use new steel as template to field drill holes in existing steel.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	25,830
Structural Steel Removal	Pound	18,640
Furnishing and Erecting Structural Steel	Pound	19,345

(Sheet 1 of 4)

MODEL: Default
FILE NAME: 057-0203-70E49-16-19-SteelRepair.dgn



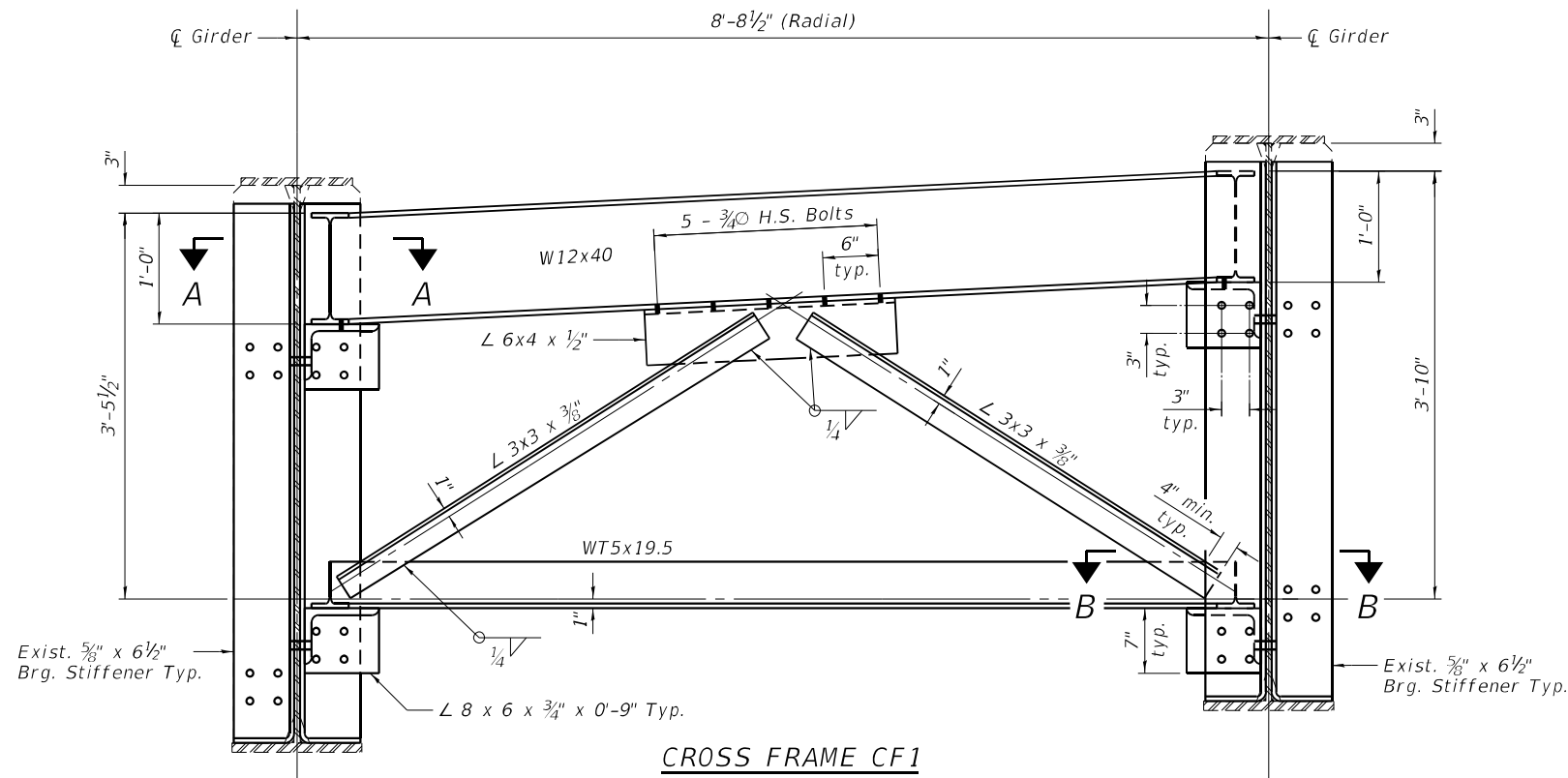
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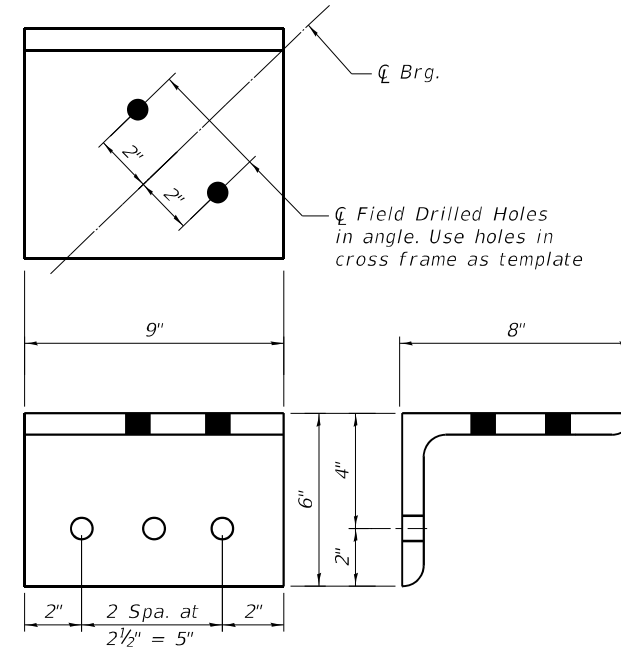
**STEEL REPAIR
STRUCTURE NO. 057-0203**

SHEET 16 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHIFTS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	52
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				



CROSS FRAME CF1
(20 Required)
North Abutment Shown, South Abutment Similar

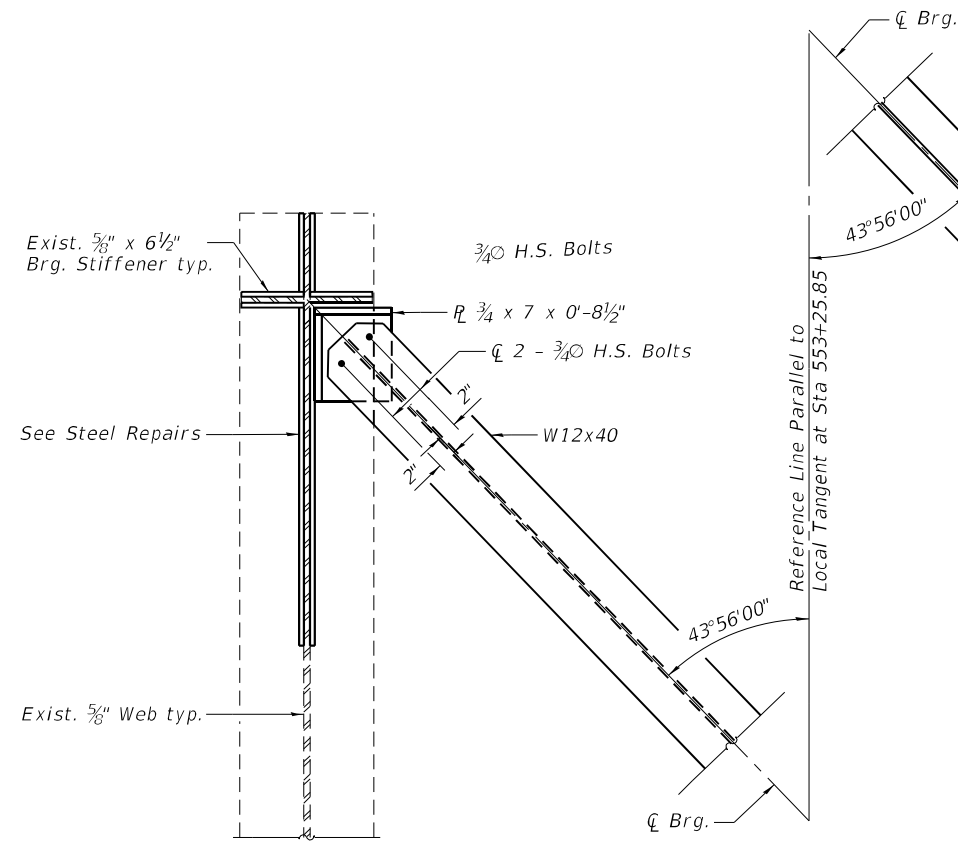


CLIP ANGLE
L 8 x 6 x 3/4 x 0'-9"
(80 Required)

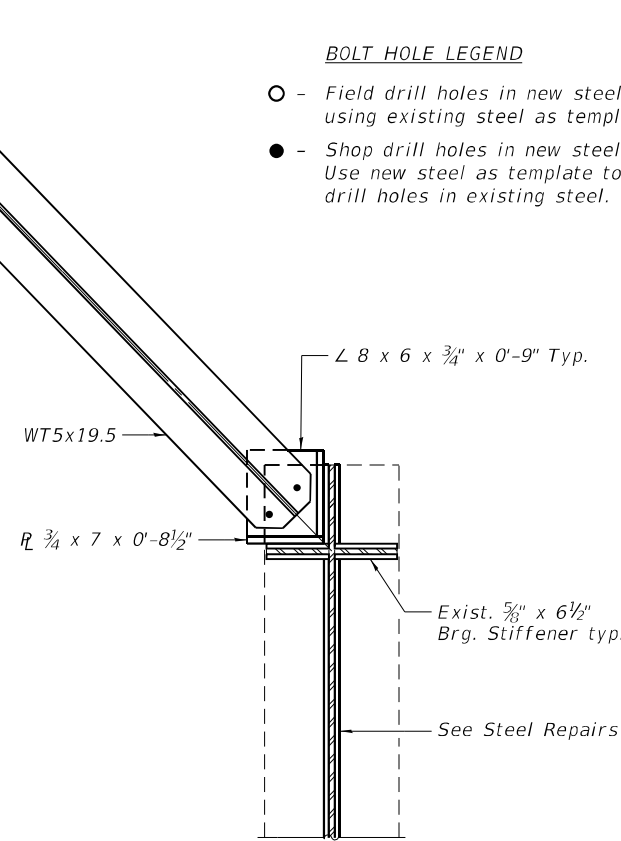
Notes:
Trim Diaphragms as required for proper fit.

BOLT HOLE LEGEND

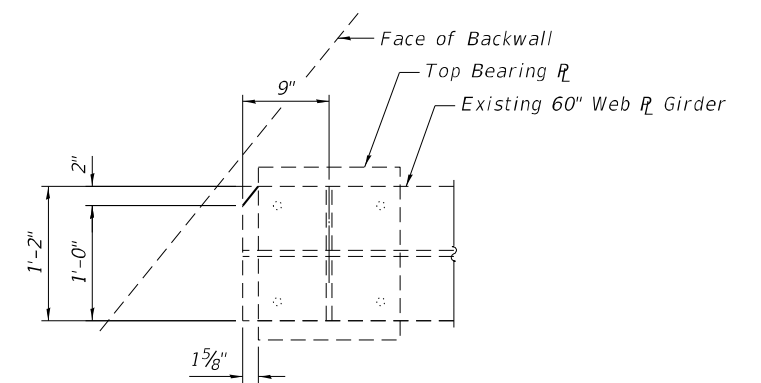
- - Field drill holes in new steel using existing steel as template
- - Shop drill holes in new steel. Use new steel as template to field drill holes in existing steel.



SECTION A-A



SECTION B-B



CLIP DETAIL AT NORTH ABUTMENT
(11 Locations Required)
Cost included with Structural Steel Removal

(Sheet 2 of 4)

MODEL: Default
FILE NAME: 057-0203-70E49-16-19-SteelRepair.dgn



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FILE NAME =	057-0203-70E49-16-19-SteelRepair.dgn
PLLOT DATE =	1/27/2021

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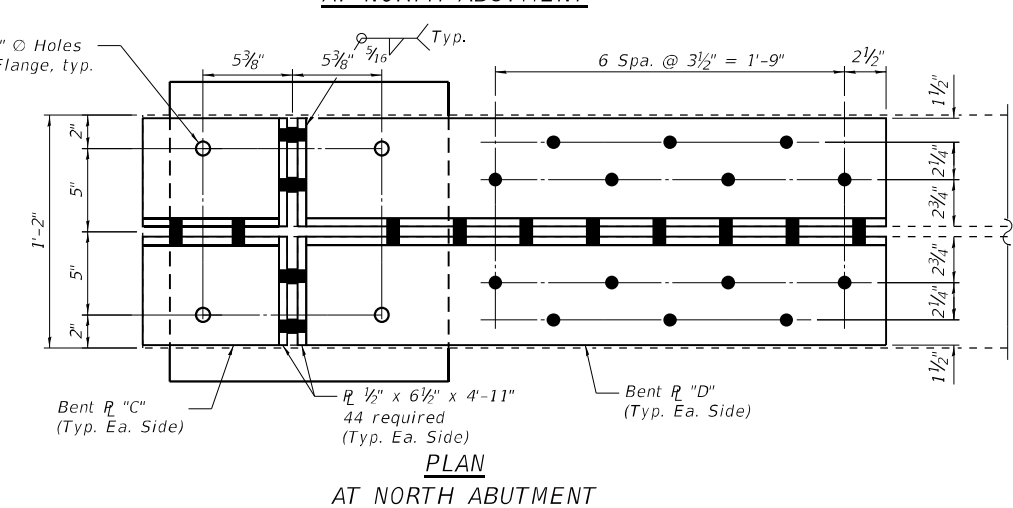
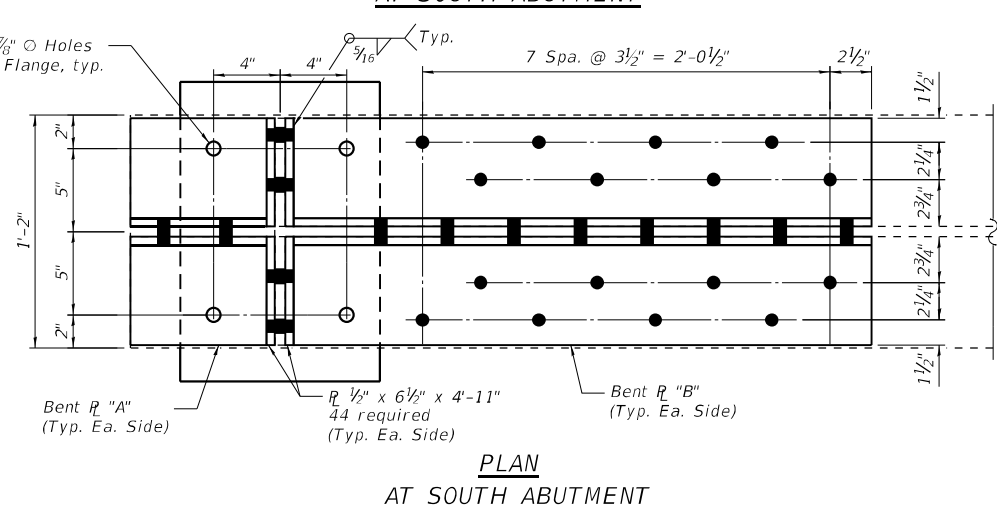
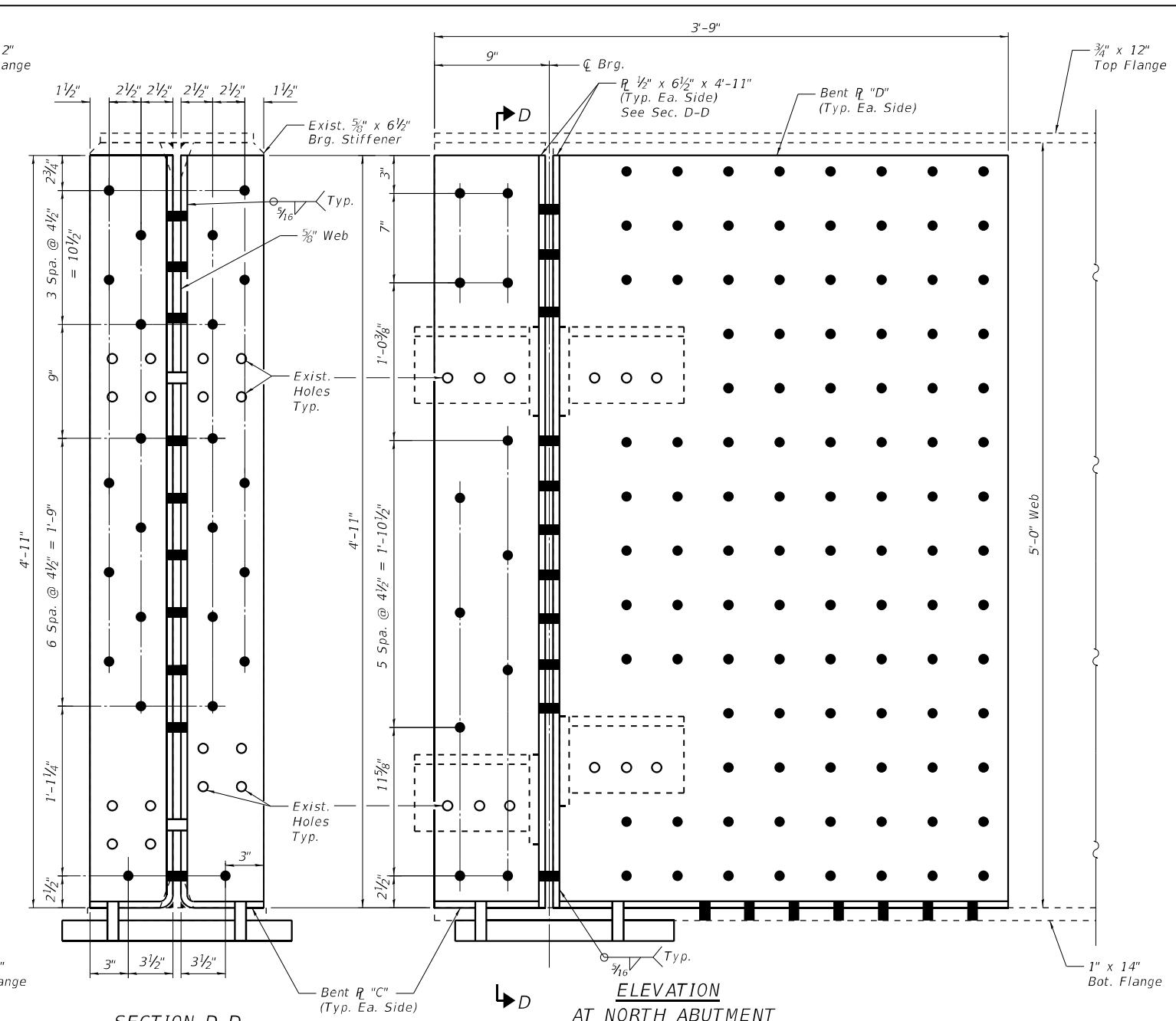
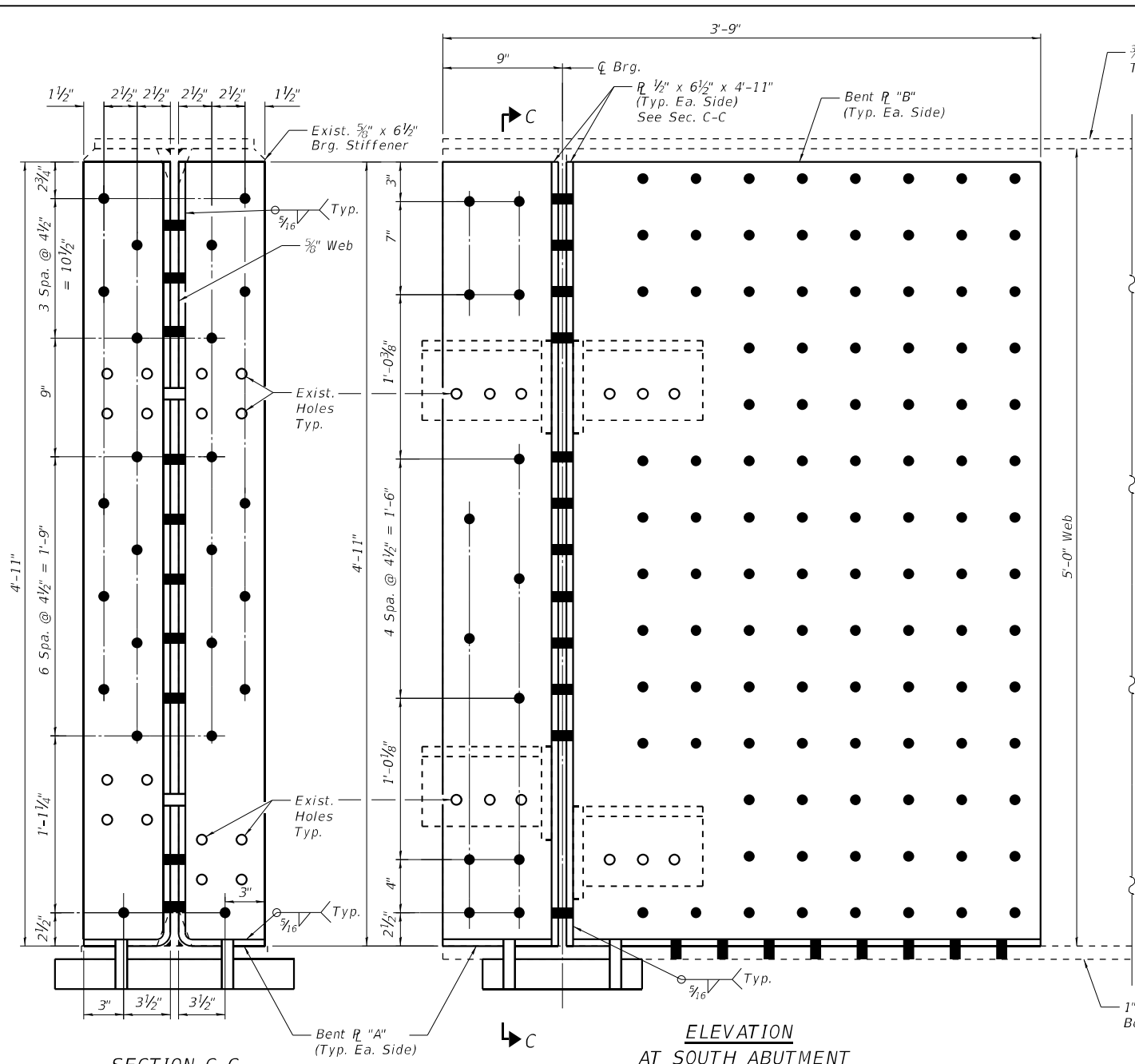
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL REPAIR
STRUCTURE NO. 057-0203

SHEET 17 OF 23 SHEETS

F.A.I. (RTE.)	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	53
CONTRACT NO. 70E49				

ILLINOIS FED. AID PROJECT



- BOLT HOLE LEGEND**
- - Field drill holes in new steel using existing steel as template
 - - Shop drill holes in new steel. Use new steel as template to field drill holes in existing steel.

(Sheet 3 of 4)

MODEL: Default
FILE NAME: 057-0203-70E49-16-19-SteelRepair.dgn



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FILE NAME = 057-0203-70E49-16-19-SteelRepair.dgn	CHECKED , MDC	REVISED ,
PLAT DATE = 1/27/2021	DRAWN , SJS	REVISED ,
	CHECKED , MDC	REVISED ,

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STEEL REPAIR
STRUCTURE NO. 057-0203**

SHEET 18 OF 23 SHEETS

F.A.I. (RTE.)	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	54
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				

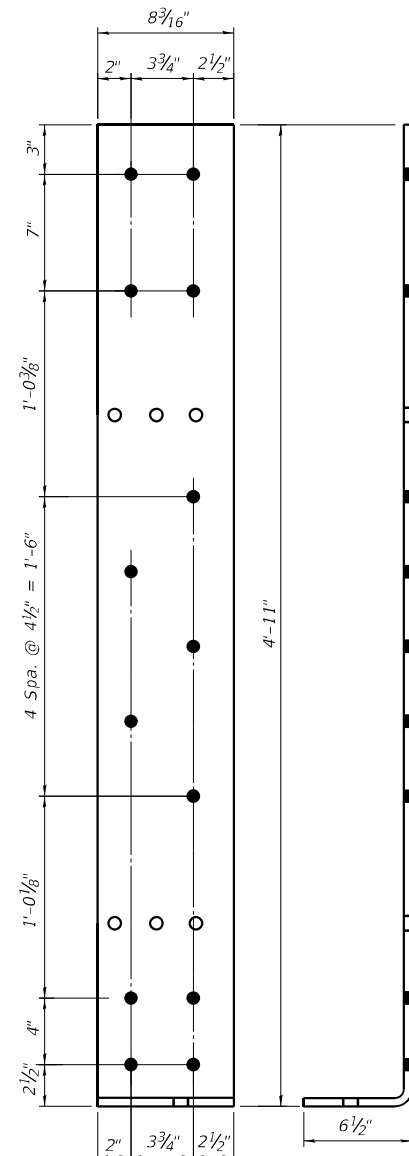


PLATE "A"

Bent $R \frac{1}{2}'' \times 8 \frac{3}{16}'' \times 5'-5 \frac{1}{2}''$ long
(22 Required)

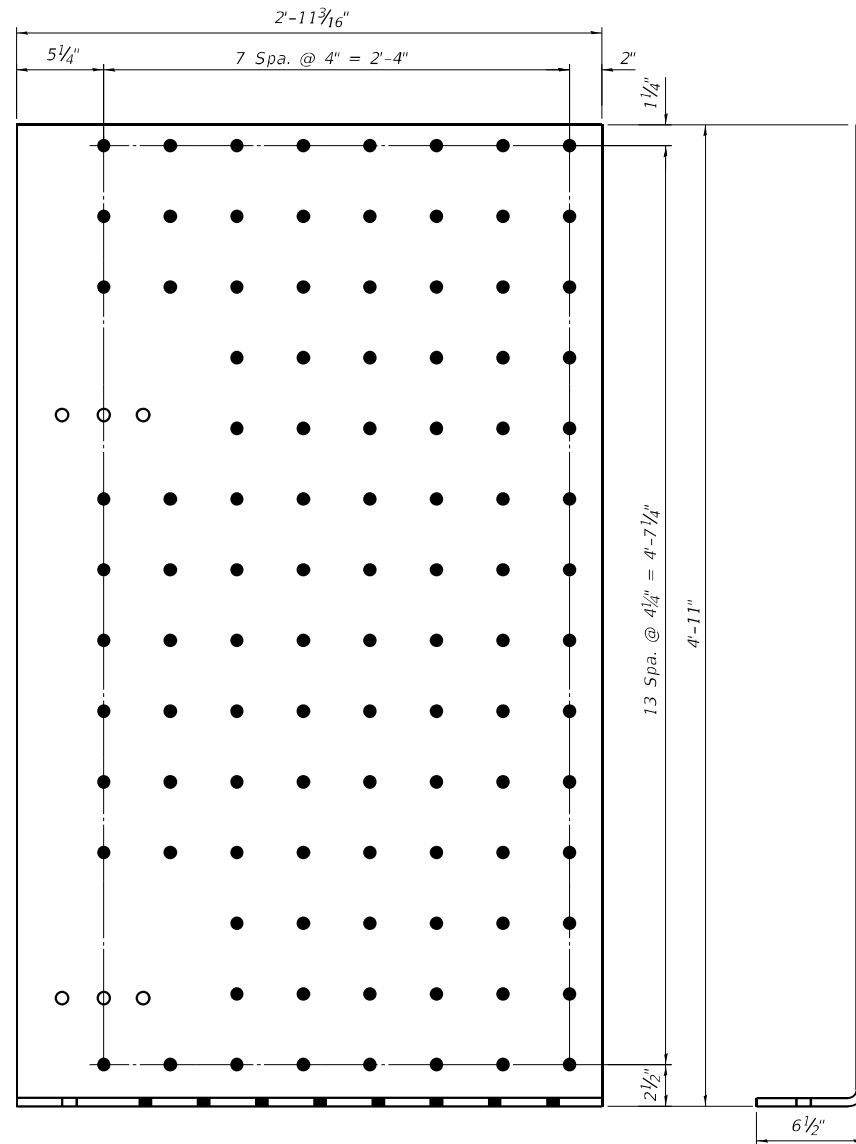


PLATE "B"

Bent $R \frac{1}{2}'' \times 2'-11 \frac{3}{16}'' \times 5'-5 \frac{1}{2}''$ long
(22 Required)

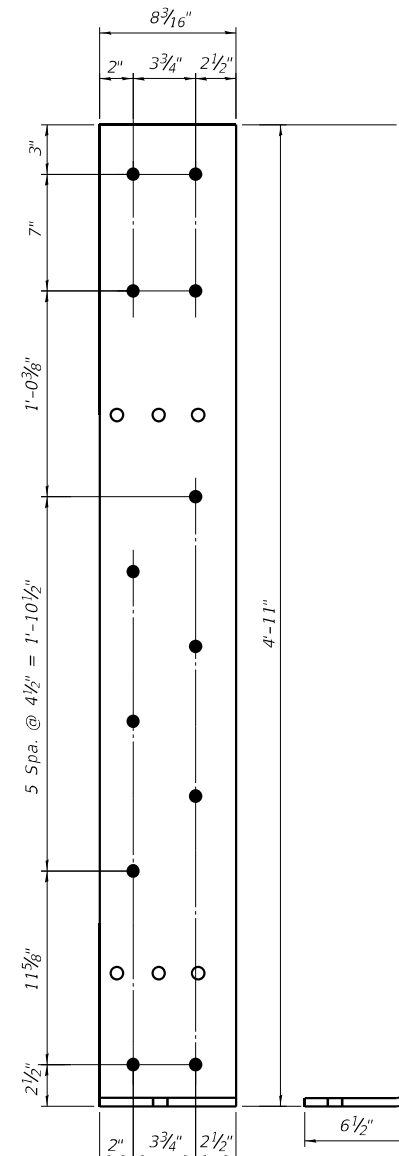


PLATE "C"

Bent $R \frac{1}{2}'' \times 8 \frac{3}{16}'' \times 5'-5 \frac{1}{2}''$ long
(22 Required)

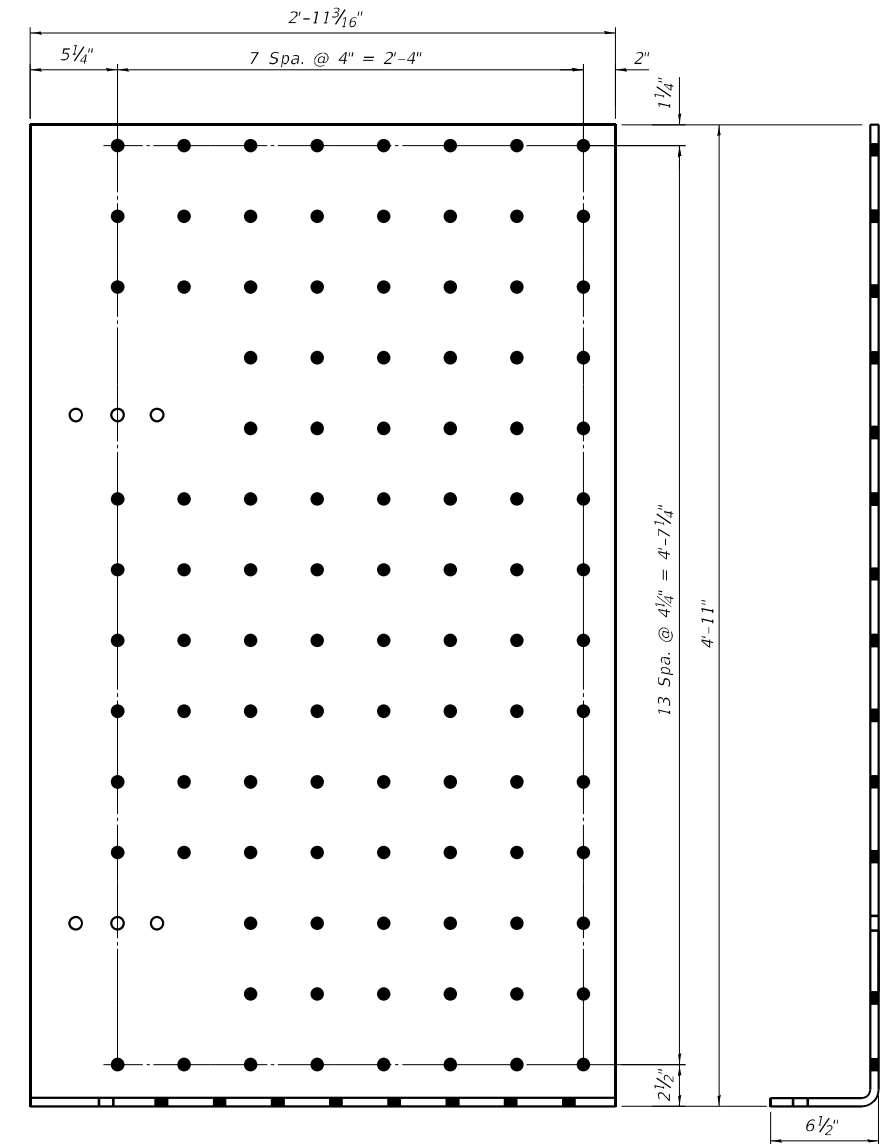


PLATE "D"

Bent $R \frac{1}{2}'' \times 2'-11 \frac{3}{16}'' \times 5'-5 \frac{1}{2}''$ long
(22 Required)

BOLT HOLE LEGEND

- - Field drill holes in new steel using existing steel as template
- - Shop drill holes in new steel. Use new steel as template to field drill holes in existing steel.

(Sheet 4 of 4)

MODEL: Default
FILE NAME: 057-0203-70E49-16-19-SteelRepair.dgn



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FILE NAME	= 057-0203-70E49-16-19-SteelRepair.dgn
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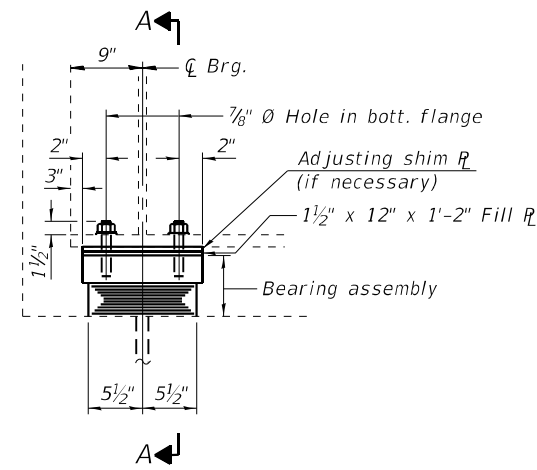
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

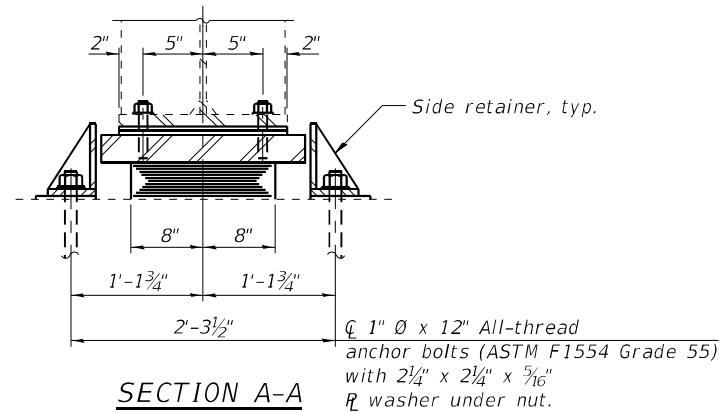
**STEEL REPAIR
STRUCTURE NO. 057-0203**

SHEET 19 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHIFTS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	55
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				

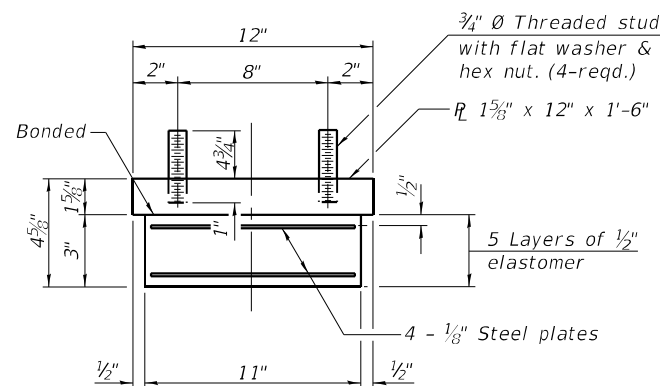


ELEVATION AT S. ABUT.



SECTION A-A

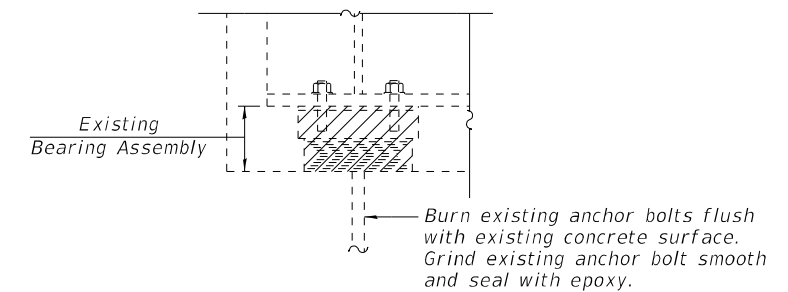
TYPE I ELASTOMERIC EXP. BRG. AT SOUTH ABUTMENT



BEARING ASSEMBLY

Note:
Shim plates shall not be placed under bearing assembly.

Notes:
Side retainers and stainless steel plates shall be included in the cost of Elastomeric Bearing Assembly, Type I.
New Fill plates are included with Furnishing and Erecting Structural Steel.
Prior to ordering any material the contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).
Min. jack capacity - 75 Tons.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 55 (Fy=55ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

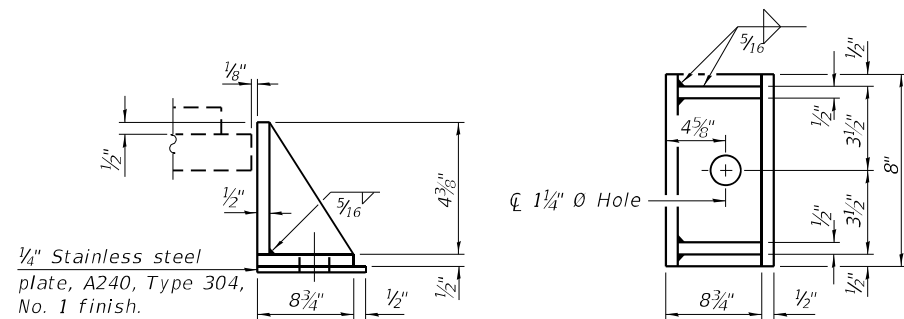


EXISTING BEARING REMOVAL DETAIL AT SOUTH ABUTMENT

Cost included with Jack and remove Existing Bearings.

BEAM REACTIONS

R _ℓ	(k)	69.0
R _⊥	(k)	52.1
Imp.	(k)	10.2
R _{Total}	(k)	131.3



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	11
Anchor Bolts 1"	Each	22
Jack and Remove Existing Bearings	Each	11
Furnishing and Erecting Structural Steel	Pound	800

MODEL: Default
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I-2E-1

6-15-2019



JOB #	2596.2
FILE NAME	057-0203-70E49-20-21-Bearings.dgn
PLLOT DATE	1/27/2021

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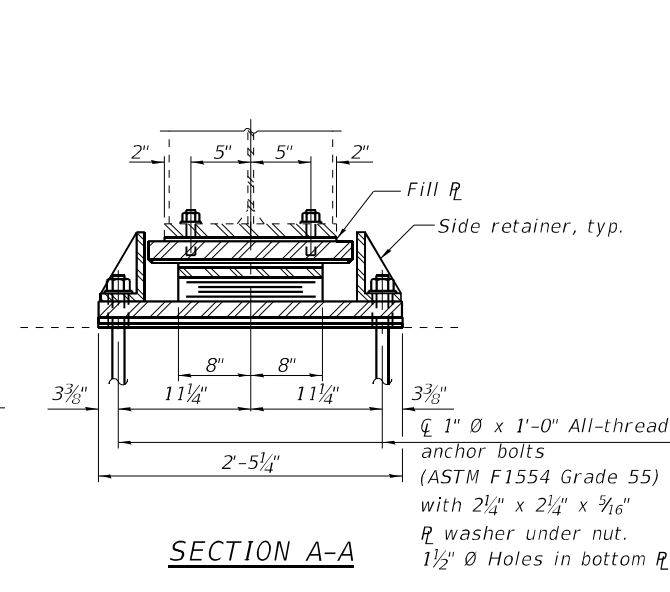
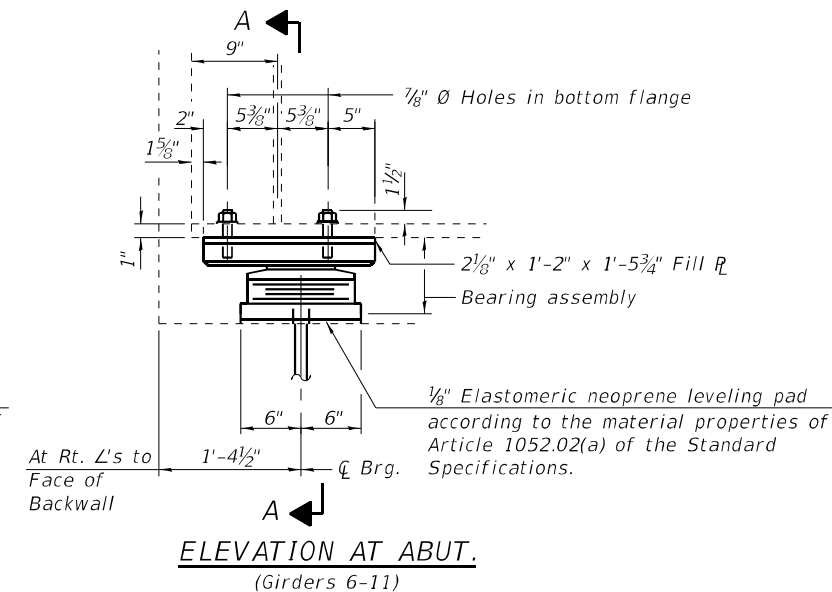
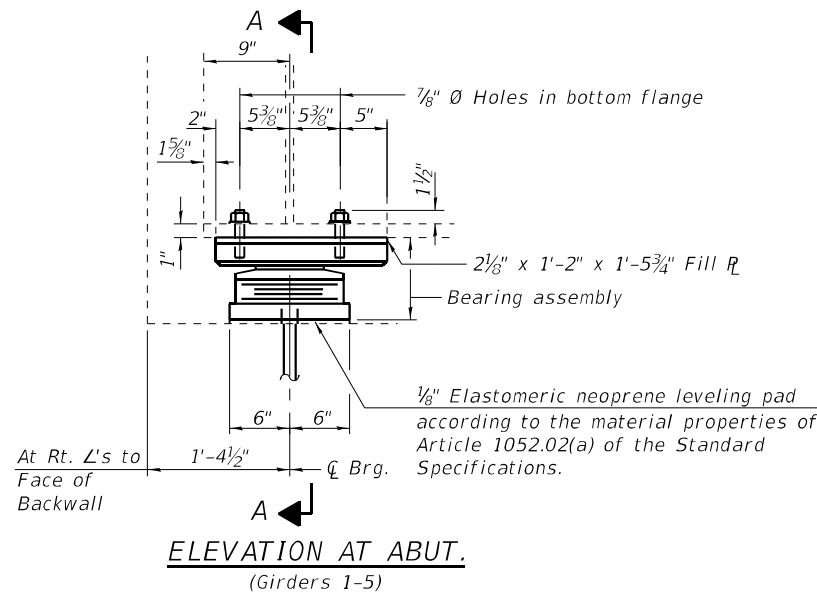
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS - SOUTH ABUTMENT
STRUCTURE NO. 057-0203

SHEET 20 OF 23 SHEETS

F.A.I. (RTE.)	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	56
CONTRACT NO. 70E49				

ILLINOIS FED. AID PROJECT



Notes:

Side retainers and leveling pad required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The 1/8" PTFE 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 MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

Anchor bolts and side retainers at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

New Fill plates are included with Furnishing and Erecting Structural Steel.

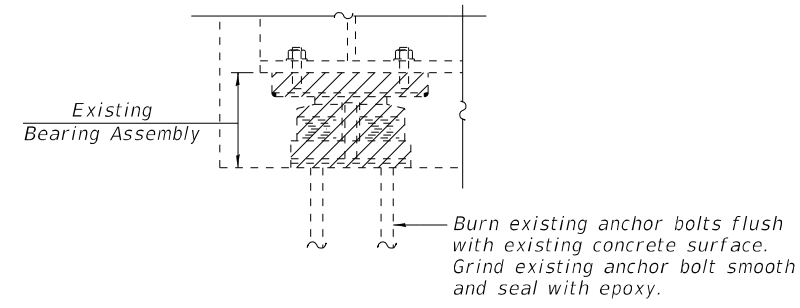
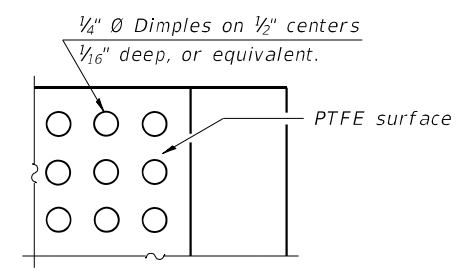
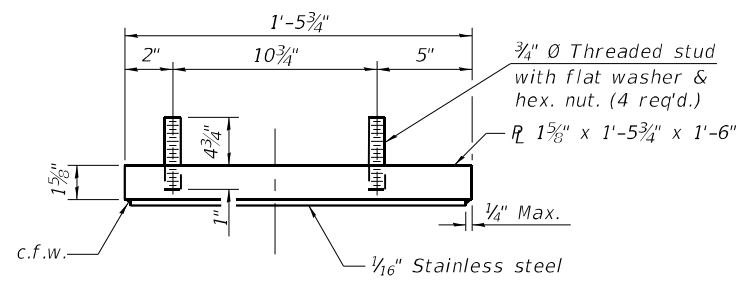
Min. jack capacity - 75 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 55 (Fy=55ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

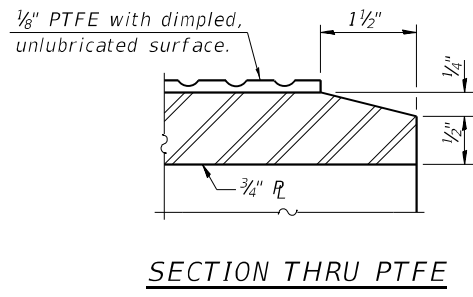
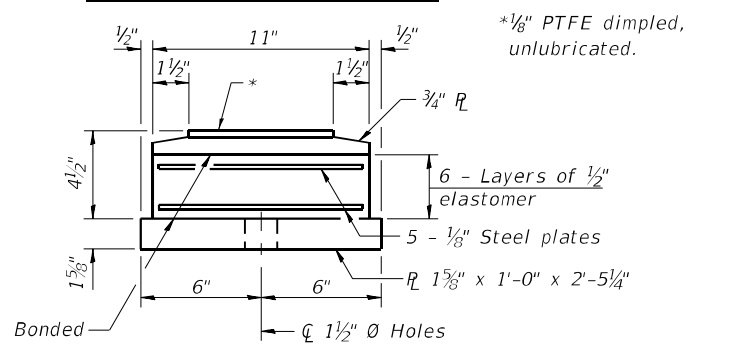
New bottom bearing assemblies shall be installed at the C Brg. on the abutment seat at a distance of 1'-4 1/2" measured at Rt. L's to the face of the backwall.

TYPE II ELASTOMERIC EXP. BRG. AT NORTH ABUTMENT

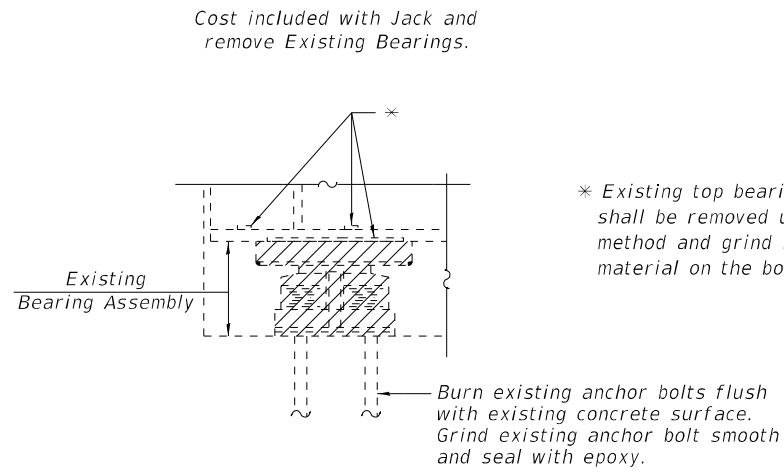


BEAM REACTIONS

R _ℓ	(k)	69.0
R _t	(k)	52.1
Imp.	(k)	10.2
R _{Total}	(k)	131.3

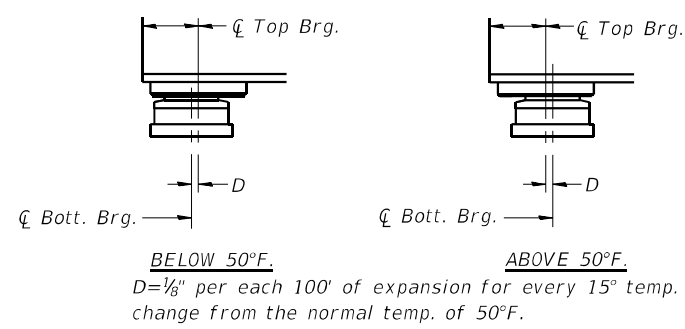
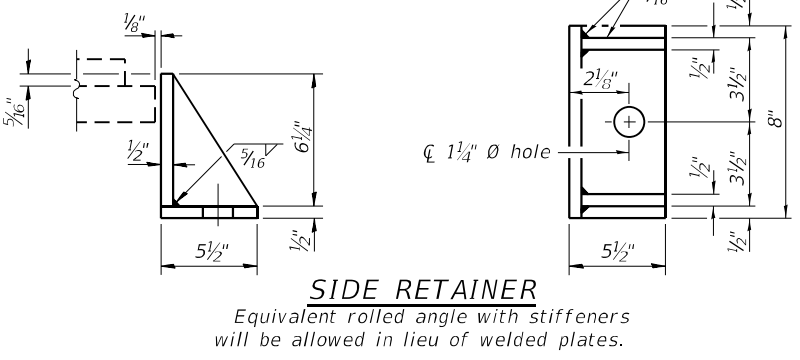


EXISTING BEARING REMOVAL DETAIL AT NORTH ABUTMENT (GIRDERS 1-5)



BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	11
Anchor Bolts 1"	Each	22
Jack and Remove Existing Bearings	Each	11
Furnishing and Erecting Structural Steel	Pound	1735



MODEL: Default
FILE NAME: 057-0203-70E49-20-21-Bearings.dgn

I-2E-2 6-15-2019



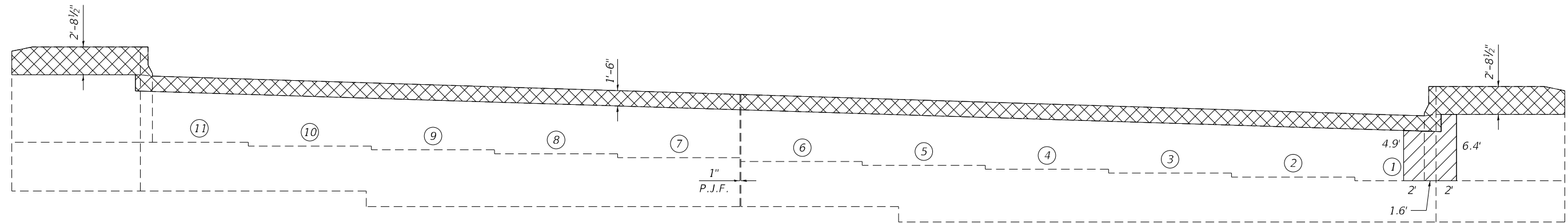
JOB #	2596.2	DESIGNED	AAN	REVISED	
FILE NAME	057-0203-70E49-20-21-Bearings.dgn	CHECKED	MDC	REVISED	
PLOT DATE	1/27/2021	DRAWN	SJS	REVISED	
		CHECKED	MDC	REVISED	

STATE OF ILLINOIS
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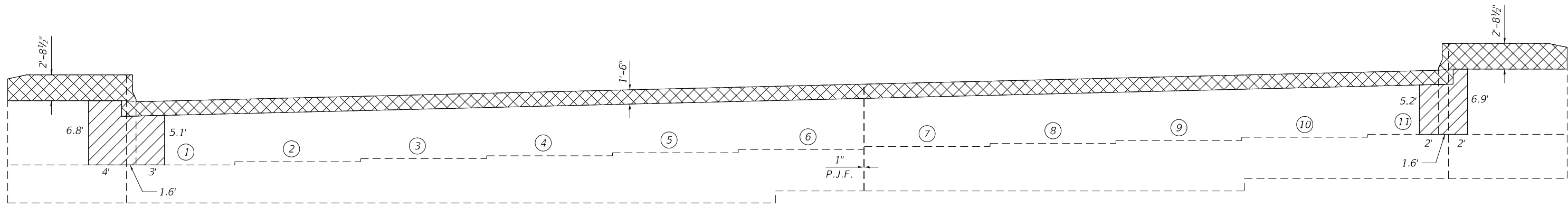
BEARING DETAILS - NORTH ABUTMENT
STRUCTURE NO. 057-0203

SHEET 21 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	57
ILLINOIS FED. AID PROJECT CONTRACT NO. 70E49				




ELEVATION SOUTH ABUTMENT
(Looking South)



ELEVATION NORTH ABUTMENT
(Looking North)

LEGEND

	Concrete Removal
	Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.	115

Notes:
Concrete Removal quantity included in Bill of Material on sheet 8 of 23.

MODEL: Default
FILE NAME: 057-0203-70E49-22-AbutRepairs.dgn



KOB =	2596.2
FILE NAME =	057-0203-70E49-22-AbutRepairs.dgn
PLLOT DATE =	1/27/2021

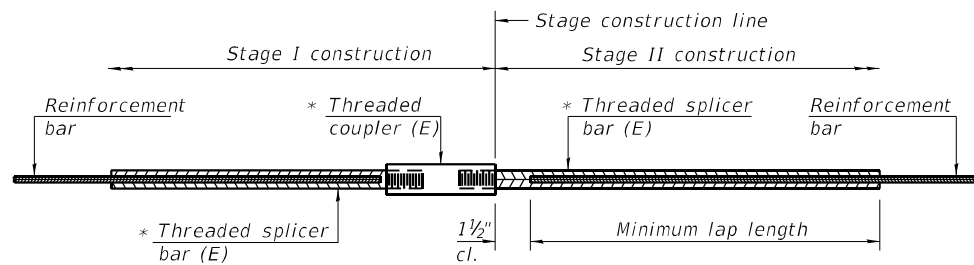
DESIGNED ,	AAN	REVISED ,	
CHECKED ,	MDC	REVISED ,	
DRAWN ,	SJS	REVISED ,	
CHECKED ,	MDC	REVISED ,	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIR DETAILS
STRUCTURE NO. 057-0203

SHEET 22 OF 23 SHEETS

F.A.I. (RTE.)	SECTION	COUNTY	TOTAL SHIFTS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	58
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				

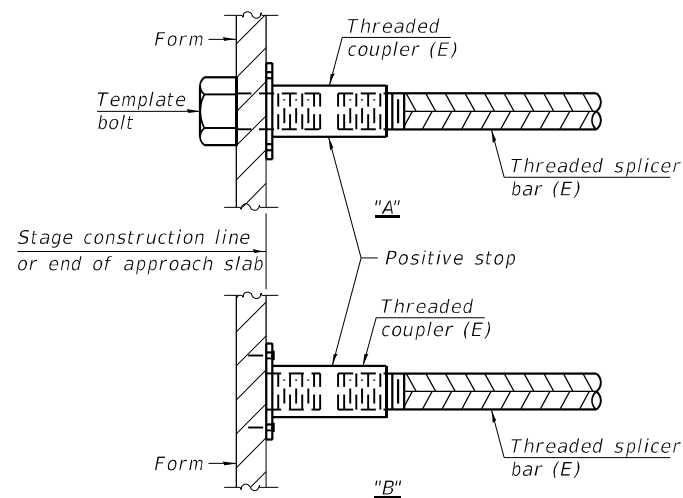


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1/2" + thread length

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

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	32	3'-7"
Hatch Block	#6	16	5'-0"
Appr. Slab - Top	#5	124	3'-7"
Appr. Slab - bottom	#8	164	5'-1"
Appr. Footing	#5	160	3'-7"

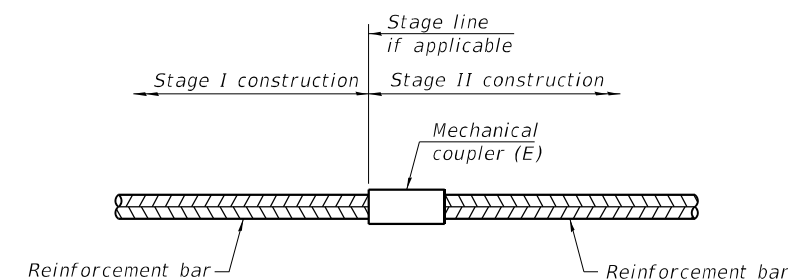


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

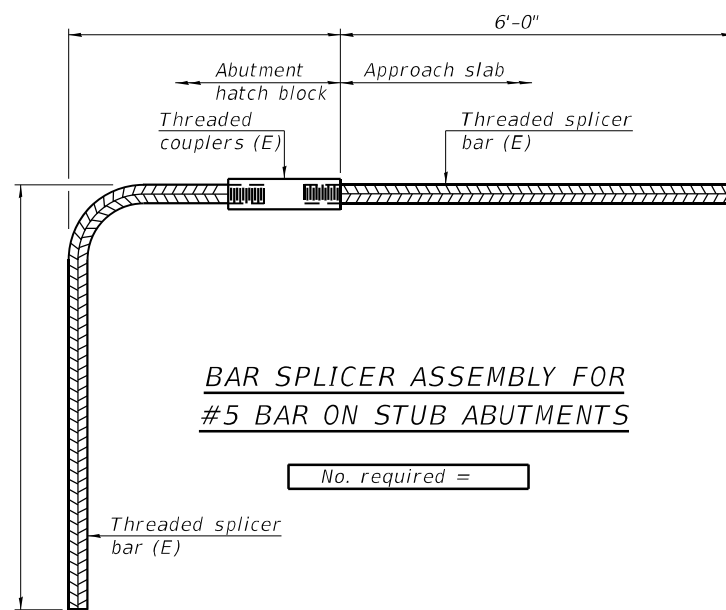
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: Default
FILE NAME: 057-0203-70E49-23-Splicer.dgn

BSD-1

2-17-2017



JOB #	2596.2
FILE NAME	057-0203-70E49-23-Splicer.dgn
PLOT DATE	1/27/2021

DESIGNED	AAN	REVISED	
CHECKED	MDC	REVISED	
DRAWN	SJS	REVISED	
CHECKED	MDC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 057-0203

SHEET 23 OF 23 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
39	(57-4B-1)BR	McLEAN	59	59
CONTRACT NO. 70E49				
ILLINOIS FED. AID PROJECT				