

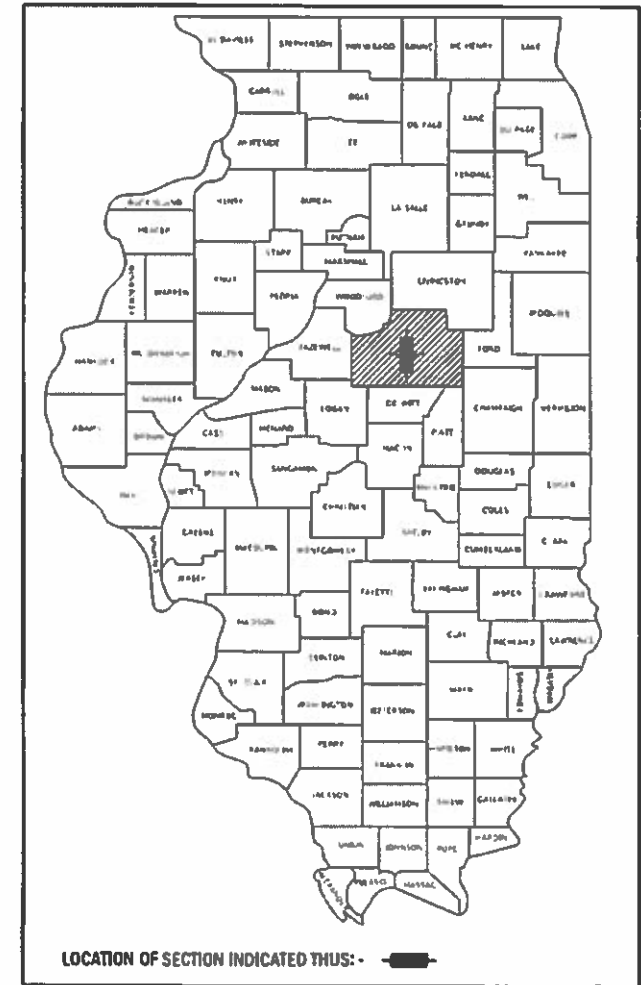
052

04-24-2020 LETTING ITEM 052

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	157-518R	MCLEAN	46	1
ILLINOIS CONTRACT NO. 70E15				

D-95-050-19



FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 3-4

PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 55 (I-55)
SECTION (57-5)BJR
PROJECT NHPP-2KKM(387)
BRIDGE JOINT REPAIR
MCLEAN COUNTY

C-95-066-19

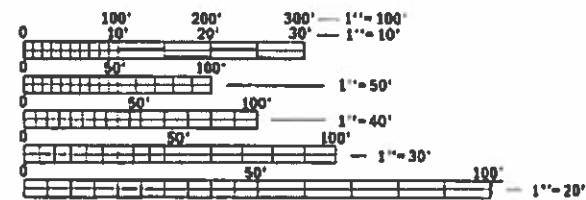
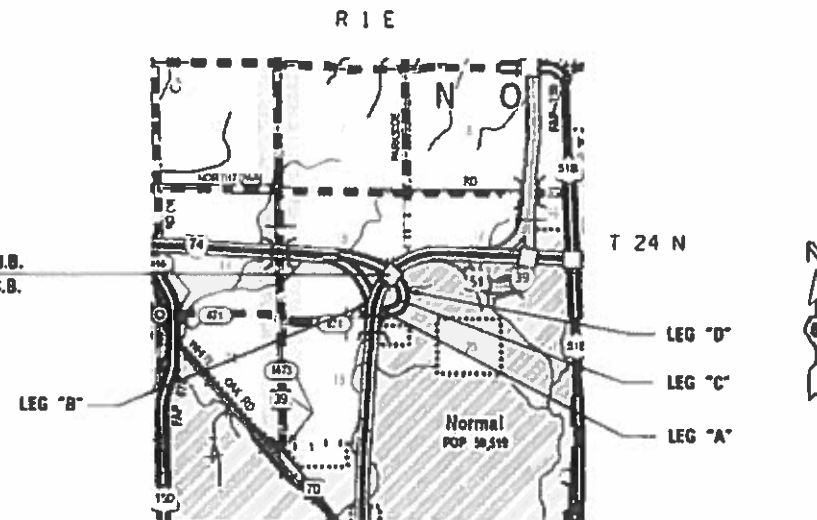
CURRENT TRAFFIC DATA

	I-55 N.B. LEG "A"	I-55 S.B. LEG "B"	I-74 E.B. TO I-55 N.B. LEG "C"	I-55 N.B. TO I-74 W.B. LEG "D"
2019 ADT =	20,100	17,200	5,400	5,100
2029 ADT =	21,500	18,400	6,100	5,400
2039 ADT =	22,900	19,600	6,800	5,700
AM 2039 DHV =	1,720	1,240	415	560
PM 2039 DHV =	1,770	1,340	595	490
P.U. & P.C. =	74.6	65.2	86.6	70.6
S.U.% =	3.0	2.8	6.0	3.9
M.U.% =	22.4	32.0	7.4	25.5

DESIGN DESIGNATION

FAI-55 - INTERSTATE

S.N. 057-0022 STA. 279 + 95.00 N.B.
S.N. 057-0023 STA. 279 + 95.00 S.B.
BRIDGE JOINT REPAIR



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

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

PROJECT ENGINEER: TIM BRANDENBURG
SQUAD LEADER: JEFF M. SHERER

CONTRACT NO. 70E15

GROSS LENGTH = 375.00 FT. = 0.071 MILE
NET LENGTH = 375.00 FT. = 0.071 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 30, 2020

Tom A. Janas
REGIONAL ENGINEER

March 20, 2020
as E.A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

March 20, 2020
Tom M. Janas
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS/ HIGHWAY STANDARDS/ GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5	GENERAL PLAN S.N. 057-0022 & S.N. 057-0023
6	TYPICAL CROSS SECTIONS
7-110	REPAIR PLANS S.N. 057-0022
11-14	REPAIR PLANS S.N. 057-0023
15	DETAIL OF CLASS SI OUTLET (SPECIAL)
16	DETAIL OF POLYMER CONCRETE AT TRANSVERSE EXPANSION JOINTS
17	DETAIL OF TEMPORARY CONCRETE BARRIER
18-37	DETAIL OF TRAFFIC CONTROL (SPECIAL)
38	DETAIL OF BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
39-46	AS-BUILT PLANS (INFORMATION ONLY)

LIST OF STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
606001-07	CONC CURB TYPE B AND COMB CONC CURB AND GUTTER
701101-05	OFF-ROAD OPERATIONS, MULTI-LANE 15' to 24" FROM EDGE OF PAVEMENT
701400-09	APPROACH TO LANE CLOSURE FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE FREEWAY/ EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, ENTRANCE OR EXIT RAMP, FOR SPEEDS \geq 45 MPH
701428-01	TRAFFIC CONTROL SETUP/REMOVAL FREEWAY/ EXPRESSWAY
701446-10	TWO-LANE CLOSURE FREEWAY/ EXPRESSWAY
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER

GENERAL NOTES

G.N.-100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-1004.01

COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT

AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED FROM OCT., 2019 DECK SURVEY. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY THE ENGINEER. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK REPAIRS ON DECK PATCHING DETAIL SHEETS.

AREA OF APPROACH SLAB REPAIR HAS BEEN ESTIMATED AT 5% OF THE AREA OF THE APPROACH PAVEMENTS. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE APPROACH REPAIRS ON A SEPARATE DETAIL SHEET.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS/ HIGHWAY STANDARDS
GENERAL NOTES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	2
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	MCLEAN COUNTY	
				FAI-55 URBAN INTERSTATE BRIDGE JOINT REPAIRS S.N. 057-0022 90% FED, 10% STATE 0047	FAI-55 URBAN INTERSTATE BRIDGE JOINT REPAIRS S.N. 057-0023 90% FED, 10% STATE 0047
20200100	EARTH EXCAVATION	CU YD	3.0	3.0	0.0
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	9.0	9.0	0.0
50102400	CONCRETE REMOVAL	CU YD	20.2	10.9	9.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	18.0	9.7	88.35
50300300	PROTECTIVE COAT	SQ YD	42.0	23.0	19.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,244.0	1,798.0	1,446.0
50800515	BAR SPLICERS	EACH	36.0	24.0	12.0
60608552	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.06	FOOT	39.0	39.0	0.0
67100100	MOBILIZATION	LSUM	1.0	0.5	0.5
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	1.0	1.0	0.0
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	LSUM	1.0	0.5	0.5
70100815	TRAFFIC CONTROL AND PROTECTION, STANDARD 701446	LSUM	1.0	0.5	0.5
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	50.0	25.0	25.0
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,550.0	787.5	762.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2,950.0	2,187.5	762.5

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PLOT DATE = 1/23/2020	CHECKED -	REVISED -
	DATE - 121119	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	3
			CONTRACT NO. 70E15	
ILLINOIS FED. AID PROJECT				

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	MCLEAN COUNTY	
				FAI-55	FAI-55
				URBAN INTERSTATE	
				BRIDGE JOINT REPAIRS	
				S.N. 057-0022	
				S.N. 057-0023	
				90% FED, 10% STATE	
				90% FED, 10% STATE	
				0047	0047
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2.0	1.0	1.0
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4.0	3.0	1.0
X1200030	FILLING INLETS, TEMPORARY	EACH	20.0	10.0	10.0
X6060097	CLASS SI CONCRETE (OUTLET), SPECIAL	CU YD	1.2	1.2	0.0
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	2.0	1.0	1.0
X7010410	SPEED DISPLAY TRAILER	CAL MO	3.0	1.5	1.5
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	816.0	534.0	282.0
Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	118.0	59.0	59.0
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	35.0	23.0	12.0
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	163.0	83.0	80.0
Z0021914	SILICONE JOINT SEALER, 2.75"	FOOT	294.0	158.0	136.0
Z0041895	POLYMER CONCRETE	CU FT	59.9	32.5	27.4

NO SPECIALTY ITEMS

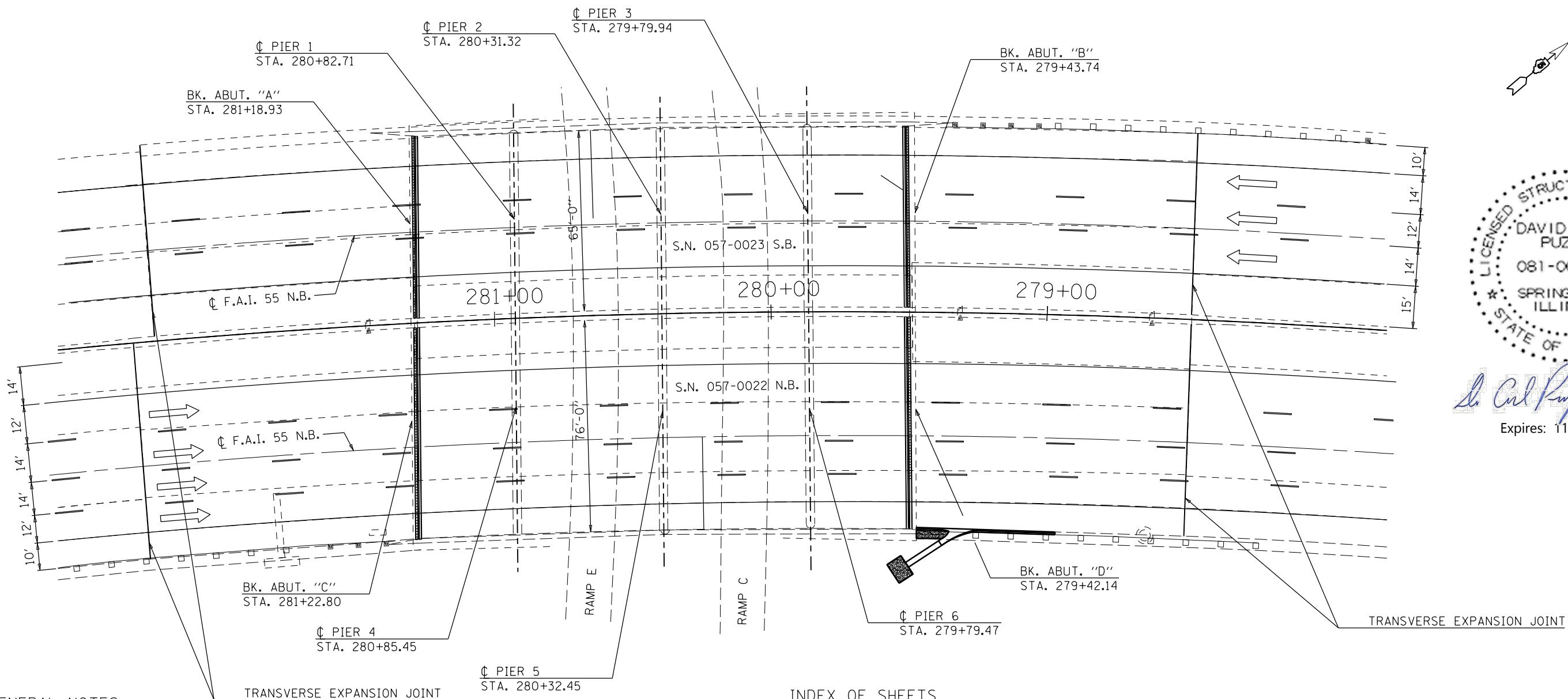
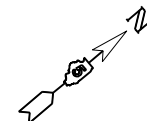
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	4
CONTRACT NO. 70E15			ILLINOIS FED. AID PROJECT	



David Carl Puzey 3/31/2020
 Expires: 11/30/2020

GENERAL NOTES

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

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING NEW CONCRETE, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACE 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.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH CONCRETE REMOVAL AND CONCRETE SUPERSTRUCTURE.

AREAS OF REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF THE REPAIRS ON AS-BUILT PLANS.

NO AREAS OF DECK SLAB REPAIR (FULL DEPTH) HAVE BEEN FOUND FROM OCTOBER, 2019 DECK SURVEY. NO DECK SLAB REPAIR (FULL DEPTH) IS EXPECTED.

PROTECTIVE COAT SHALL BE APPLIED TO NEW CONCRETE AREAS ADJACENT TO DECK JOINTS.

PLAN VIEW

PROPOSED IMPROVEMENTS

1. REMOVE AND REPLACE HATCH BLOCK AT ABUTMENTS.
2. REMOVE EXISTING EXPANSION JOINT AT DECK ENDS.
3. PLACE POLYMER CONCRETE AND SILICONE JOINTS.
4. PERFORM PARTIAL DEPTH PATCHING AT SELECT LOCATIONS.
5. PERFORM STRUCTURAL REPAIR OF CONCRETE AT ABUTMENTS.
6. REPAIR EROSION DAMAGE AT APPROACH PAVEMENT (S.N. 057-0022).

INDEX OF SHEETS

1. GENERAL PLAN S.N. 057-0022 & S.N. 057-0023
2. TYPICAL CROSS-SECTIONS
3. DETAIL REMOVAL AT JOINTS S.N. 057-0022
4. DETAIL OF CONCRETE SUPERSTRUCTURE S.N. 057-0022
5. DETAIL OF DECK SLAB REPAIR S.N. 057-0022
6. DETAIL OF STRUCTURAL REPAIR OF CONCRETE S.N. 057-0022
7. DETAIL REMOVAL AT JOINTS S.N. 057-0023
8. DETAIL OF CONCRETE SUPERSTRUCTURE S.N. 057-0023
9. DETAIL OF DECK SLAB REPAIR S.N. 057-0023
10. DETAIL OF STRUCTURAL REPAIR OF CONCRETE S.N. 057-0022

TOTAL BILL OF MATERIALS

ITEM	UNIT	TOTAL
PROTECTIVE COAT	SQ YD	42.0
CONCRETE REMOVAL	CU YD	20.2
CONCRETE SUPERSTRUCTURE	CU YD	18.0
REINFORCEMENT BARS, EPOXY COATED	POUND	3,244.0
BAR SPlicERS	EACH	36.0
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ FT	35.0
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	118.0
DECK SLAB REPAIR (PARTIAL DEPTH)	SQ YD	163.0
SILICONE JOINT SEALER, 2 3/4"	FOOT	294.0
POLYMER CONCRETE	CU FT	59.9

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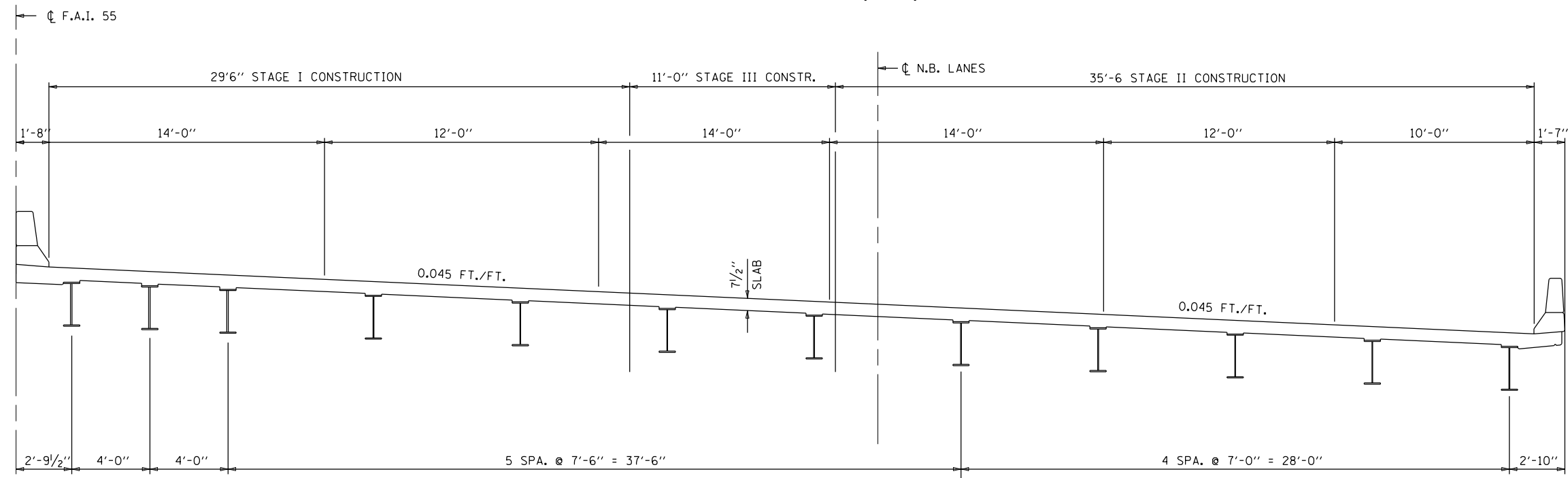
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN
 S.N. 057-0022 (N.B.) & S.N. 057-0023 (S.B.)**
 SCALE: NONE SHEET 1 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BR	MCLEAN	46	5
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

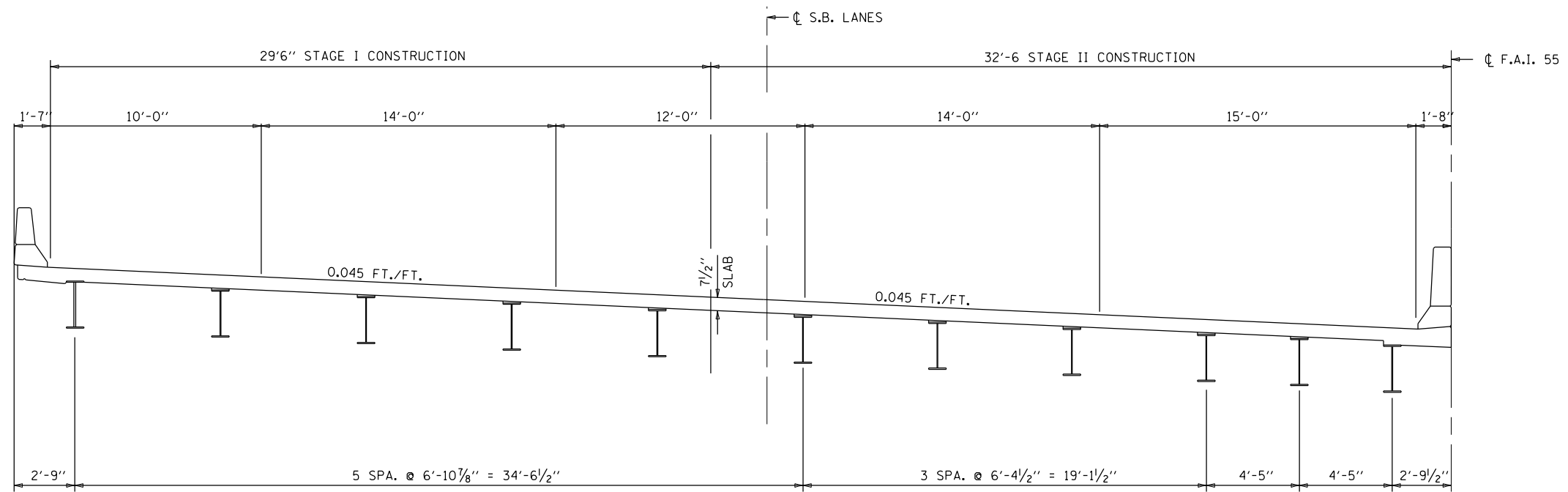
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S.N. 057-0022 (N.B.)



EXISTING TYPICAL CROSS-SECTION (LOOKING NORTH)

S.N. 057-0023 (S.B.)



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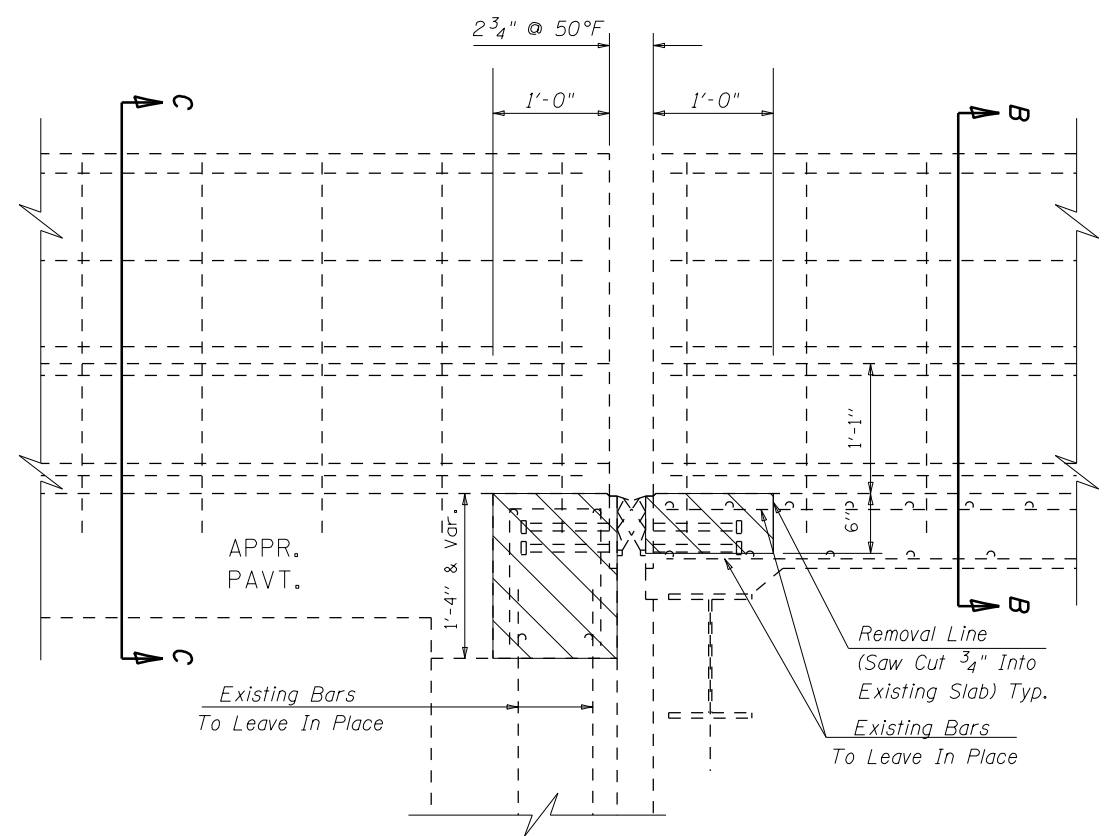
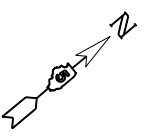
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

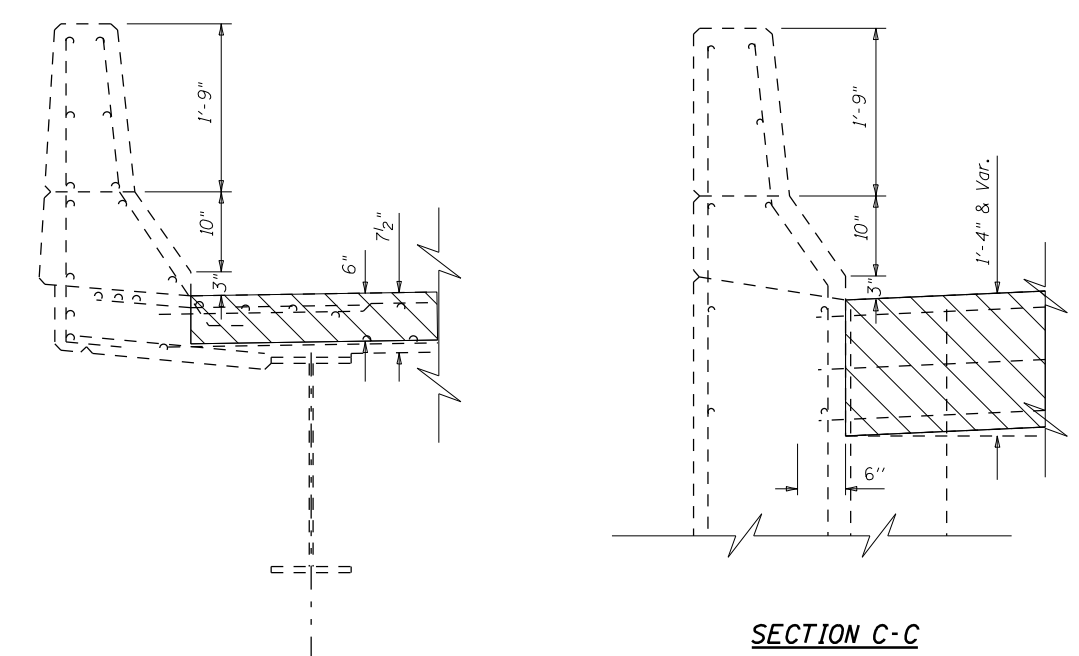
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S.N. 057-0022 (N.B.) & S.N. 057-0023 (S.B.)**

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

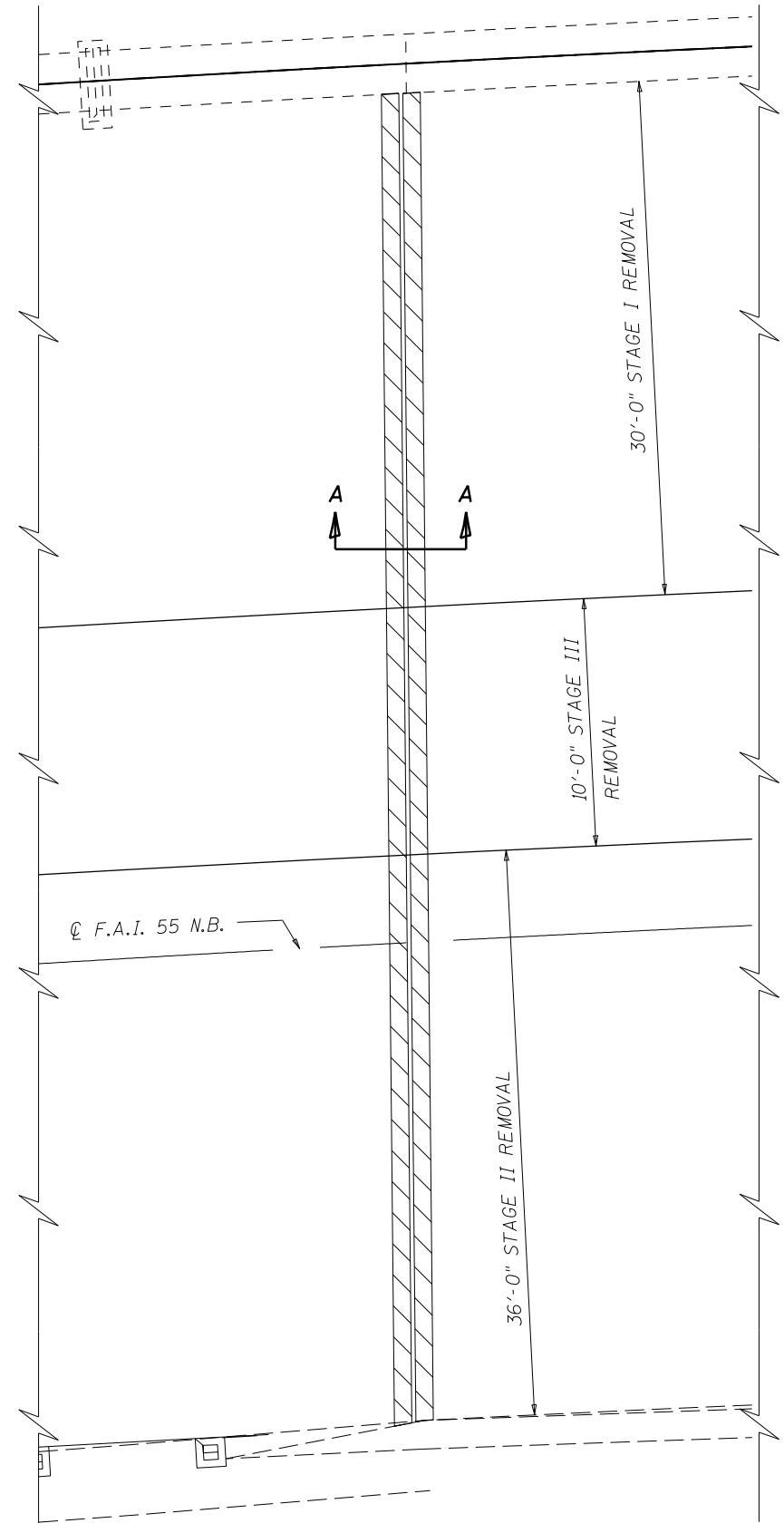


SECTION A-A



SECTION B-B

SECTION C-C



PLAN VIEW

Abutment "C" Shown
Abutment "D" similar

LEGEND:



NOTE:

Abutment "C" Shown, Abutment "D" Similar.

Existing Reinforcement Bars Extending Into The Removal Area shall Be Cleaned, Straightened And Incorporated Into The New Construction. Any Reinforcement Bars That Are Damaged During Concrete Removal Shall Be Replaced With An Approved Bar Splicer or Anchorage System. Cost Included With Concrete Removal.

All Existing Reinforcement in Parapets and Wingwalls to Remain in Place.

BILL OF MATERIAL (TWO ABUTMENTS)

Item	Unit	Total
Concrete Removal	Cu Yd	10.3

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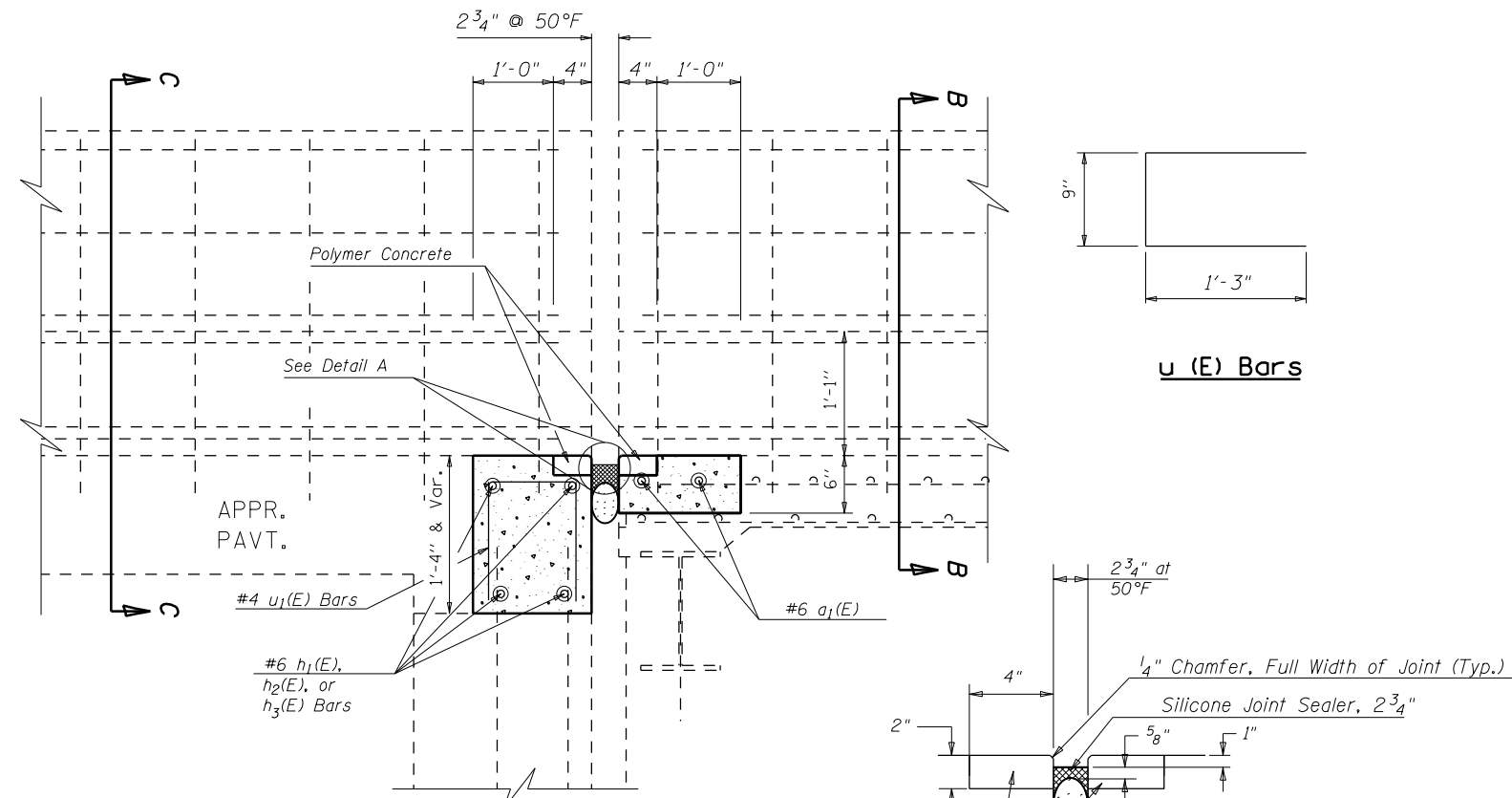
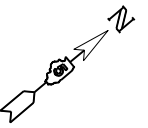
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

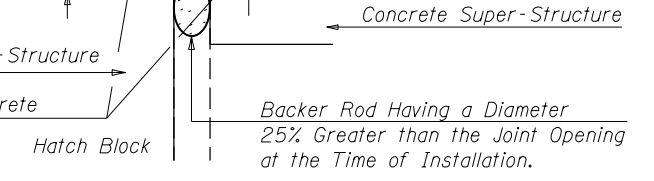
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S.N. 057-0022 (N.B.)**

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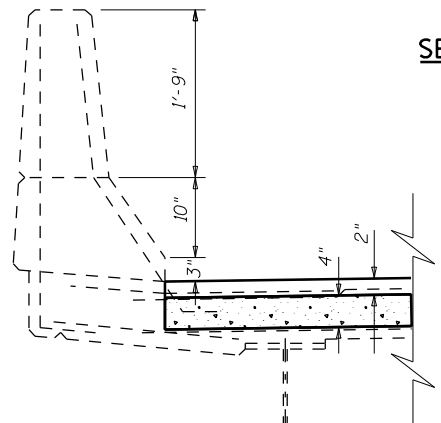
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55	(57-5)BJR	MCLEAN	46	7
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				



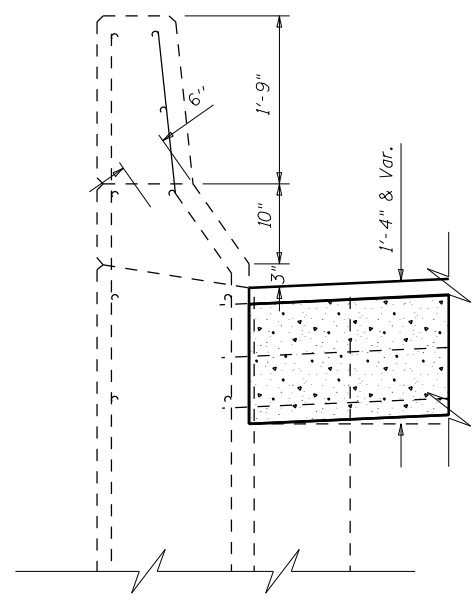
SECTION A-A



SILICONE JOINT SEALER DETAIL

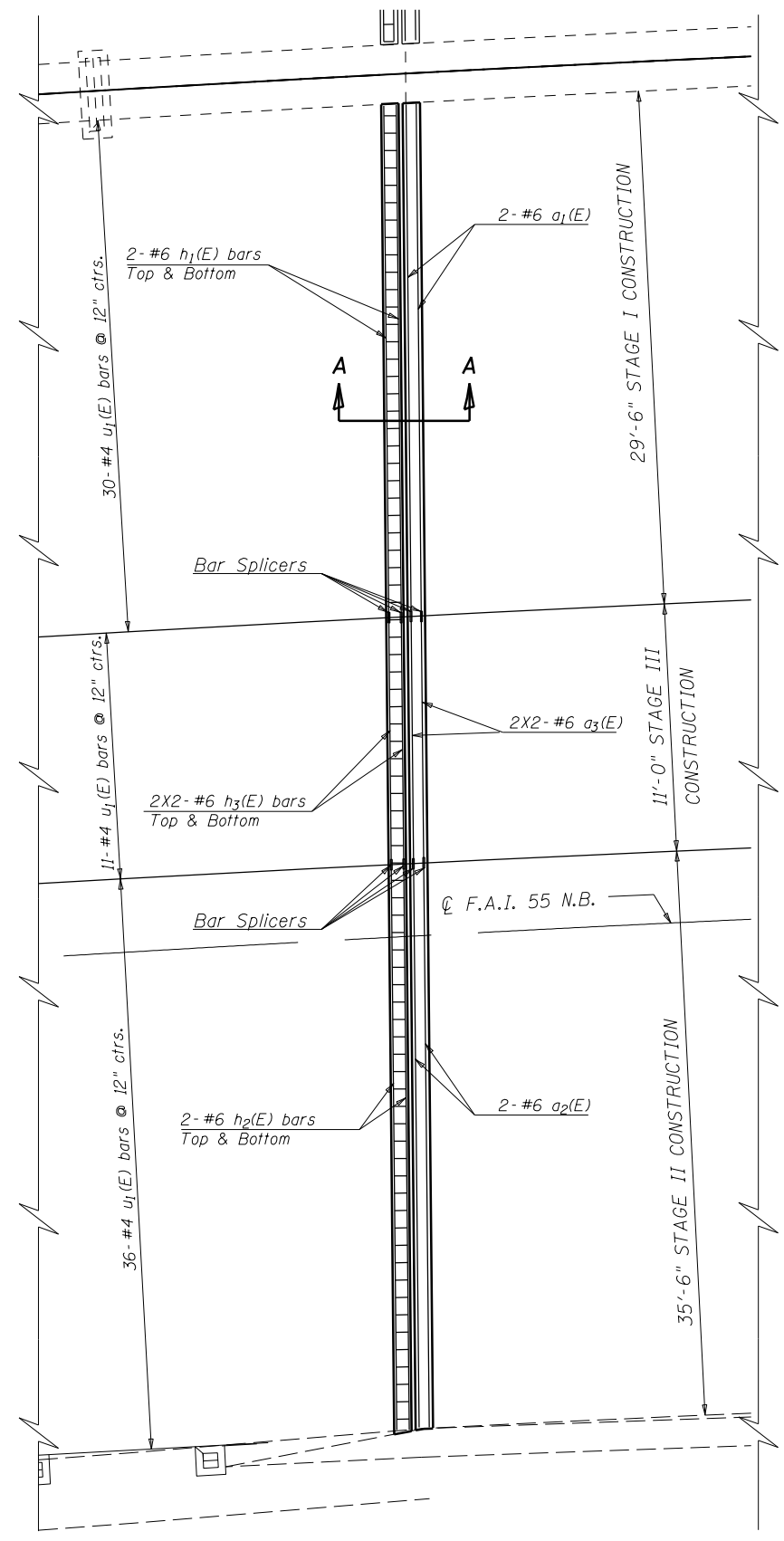


SECTION B-B



SECTION C-C

u (E) Bars



PLAN VIEW

Abutment "C" Shown
Abutment "D" similar

Min. Bar Lap
#6 = 4'-0"

LEGEND:

Concrete Superstructures

NOTES

Abutment "C" Shown. Abutment "D" Similar.
Reinforcement Bars Designated (E) shall Be Epoxy Coated.

BILL OF MATERIAL (TWO ABUTMENTS)

Bar	No.	Size	Length	Shape	
a ₁ (E)	4	#6	29'-6"	—	
a ₂ (E)	4	#6	35'-6"	—	
a ₃ (E)	8	#6	7'-6"	—	
h ₁ (E)	8	#6	30'-0"	—	
h ₂ (E)	8	#6	36'-0"	—	
h ₃ (E)	16	#6	7'-6"	—	
u ₁ (E)	154	#4	3'-3"	□	
Reinforcement Bars, Epoxy Coated				Pound	1,798.0
Bar Splicers				Each	24.0
Concrete Superstructures				Cu Yd	9.7
Silicone joint Sealer 2 3/4"				Foot	158.0
Polymer Concrete				Cu ft	16.9

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PLOT DATE = 3/30/2020	DATE - 12/2019	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF CONCRETE SUPERSTRUCTURE AT JOINTS
S.N. 057-0022 (N.B.)**

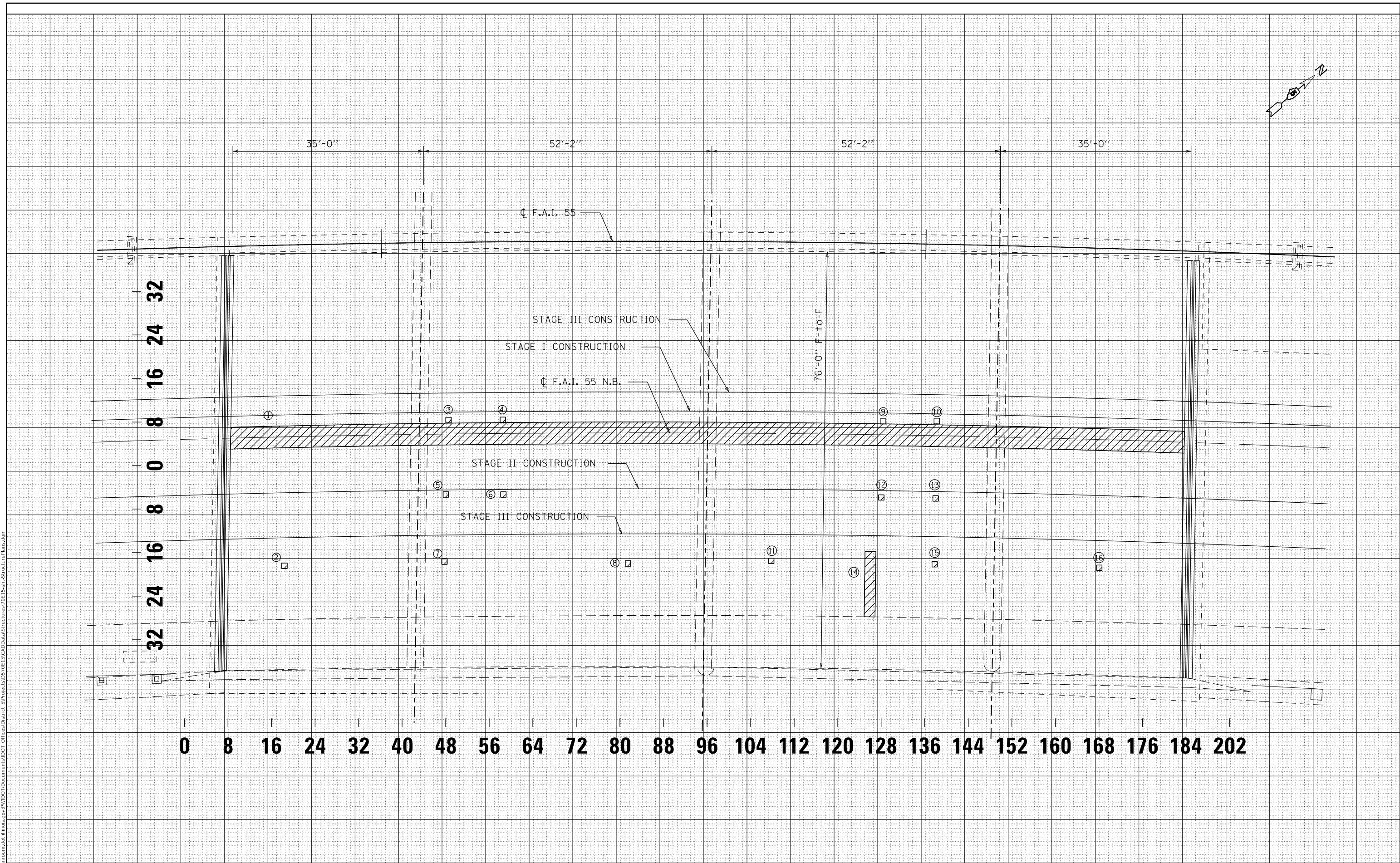
SCALE: NONE SHEET 4 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BR	MCLEAN	46	8
CONTRACT NO. 70E15			ILLINOIS FED. AID PROJECT	

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

DATE	
BY	
SURVEYED	
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NOTE BOOK	
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USER NAME = shererjm	DESIGNED -	REVISED - JMS 033020
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/30/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETAIL OF DECK SLAB REPAIR			
S.N. 057-0022			
SCALE: 2.5	SHEET 5	OF 10 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(10-70)BR	CHAMPAIGN	46	9
CONTRACT NO. 70D63				
ILLINOIS FED. AID PROJECT				

PATCH NO.	SIZE		DECK SLAB REPAIR (PARTIAL DEPTH) SQ YD
	LENGTH (FT)	WIDTH (FT)	
1	175.0	4.0	77.8
2	1.0	1.0	0.1
3	1.0	1.0	0.1
4	1.0	1.0	0.1
5	1.0	1.0	0.1
6	1.0	1.0	0.1
7	1.0	1.0	0.1
8	1.0	1.0	0.1
		TOTAL =	78.6
		USE =	79.0

PATCH NO.	SIZE		DECK SLAB REPAIR (PARTIAL DEPTH) SQ YD
	LENGTH (FT)	WIDTH (FT)	
9	1	1	0.1
10	1	1	0.1
11	1	1	0.1
12	1	1	0.1
13	1	1	0.1
14	12	2	2.7
15	1	1	0.1
16	1	1	0.1
		TOTAL =	3.4
		USE =	4.0

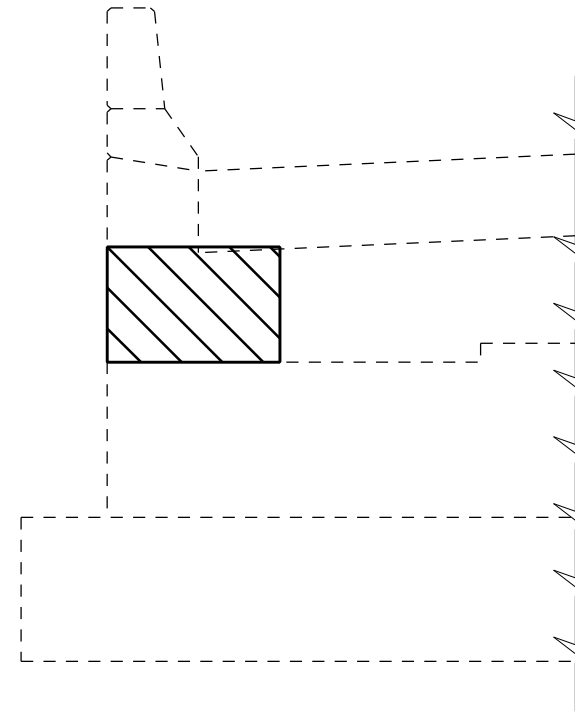
NOTES:

AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED FROM OCT., 2019 DECK SURVEY. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY THE ENGINEER. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK REPAIRS ON DECK PATCHING DETAIL SHEETS.

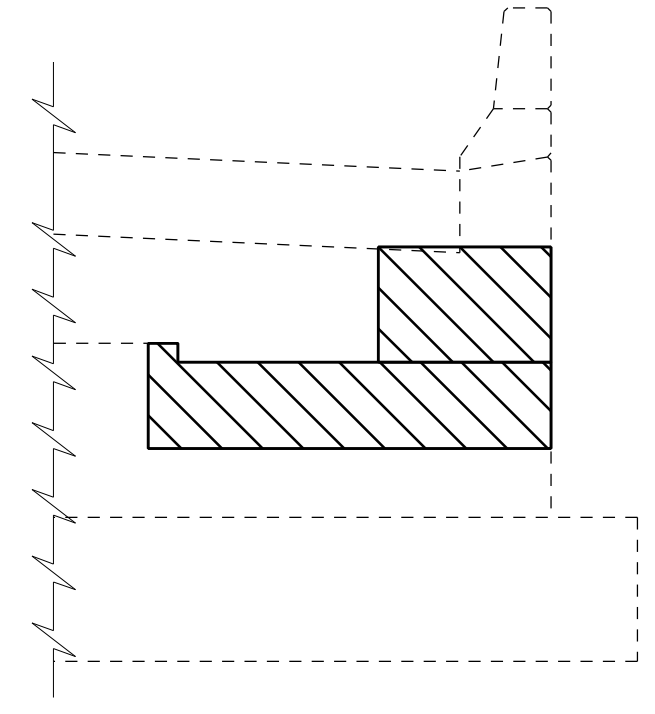
AREA OF APPROACH SLAB REPAIR HAS BEEN ESTIMATED AT 5% OF TOTAL AREA OF THE APPROACH PAVEMENTS. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF THE APPROACH SLAB REPAIRS ON A SEPARATE DETAIL SHEET.

BILL OF MATERIALS

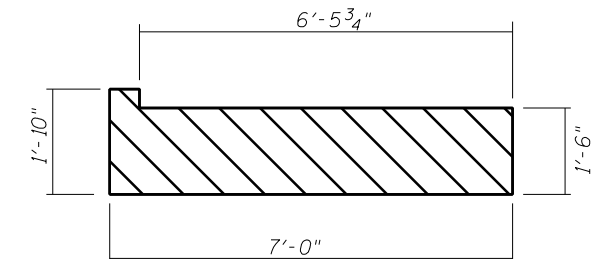
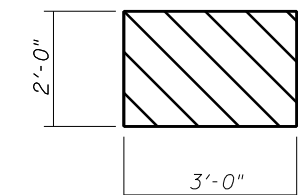
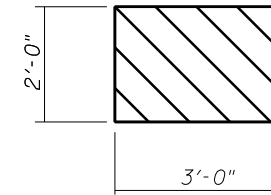
ITEM	UNIT	TOTAL
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	59.0
DECK SLAB REPAIR (PARTIAL DEPTH)	SQ YD	83.0



057-0022 SOUTH ABUTMENT (LOOKING SOUTH)



057-0022 NORTH ABUTMENT (LOOKING NORTH)



BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONC. =< 5"	SQ FT	23.0

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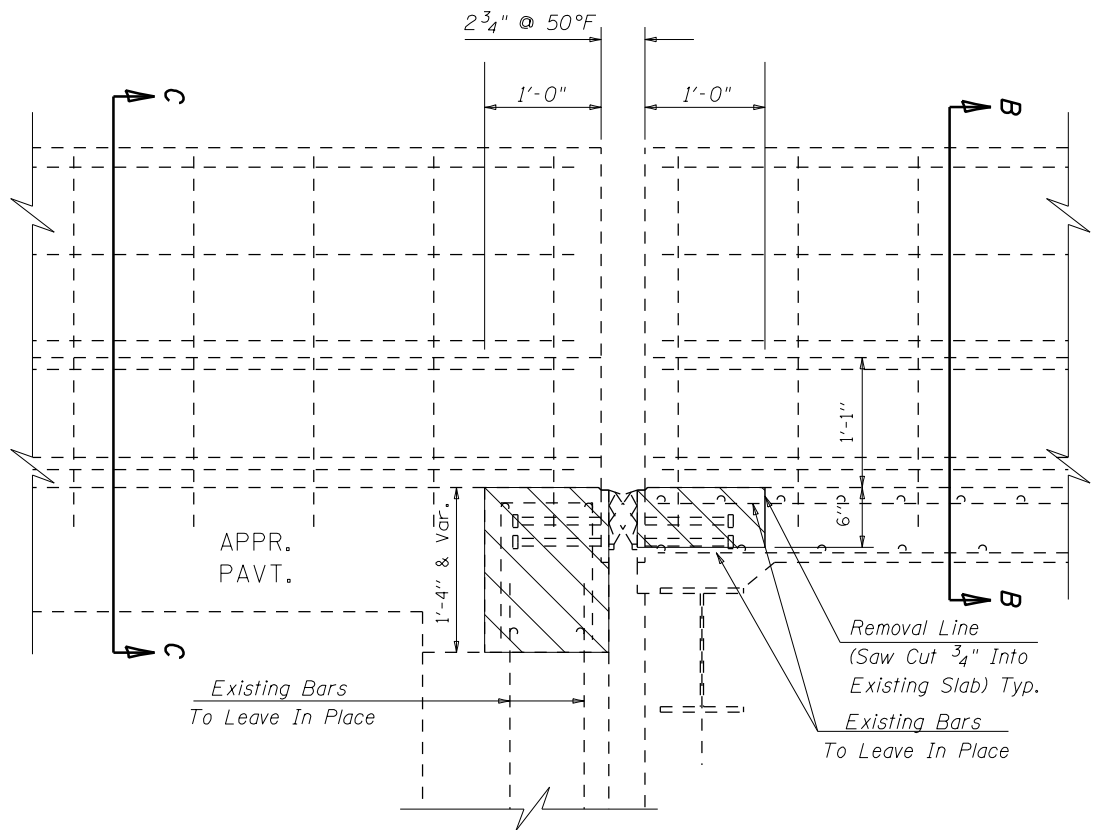
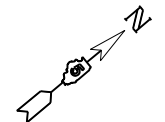
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PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 1/8/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

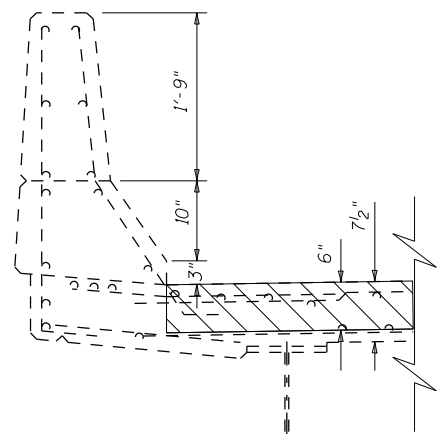
**DETAIL OF STRUCTURAL REPAIR OF CONCRETE
S.N. 057-0022 (N.B.)**

SCALE: NONE SHEET 6 OF 10 SHEETS STA. TO STA.

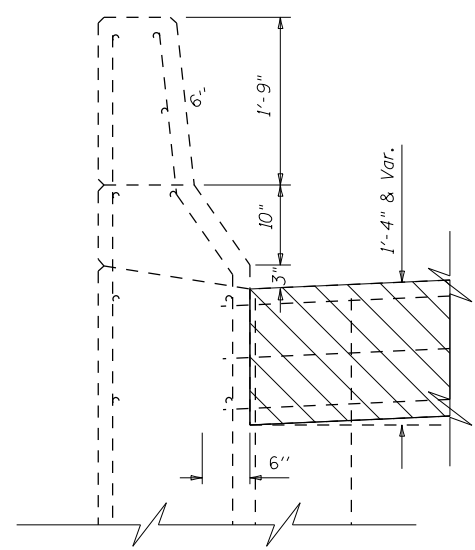
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BR	MCLEAN	46	10
				CONTRACT NO. 70E15
ILLINOIS FED. AID PROJECT				



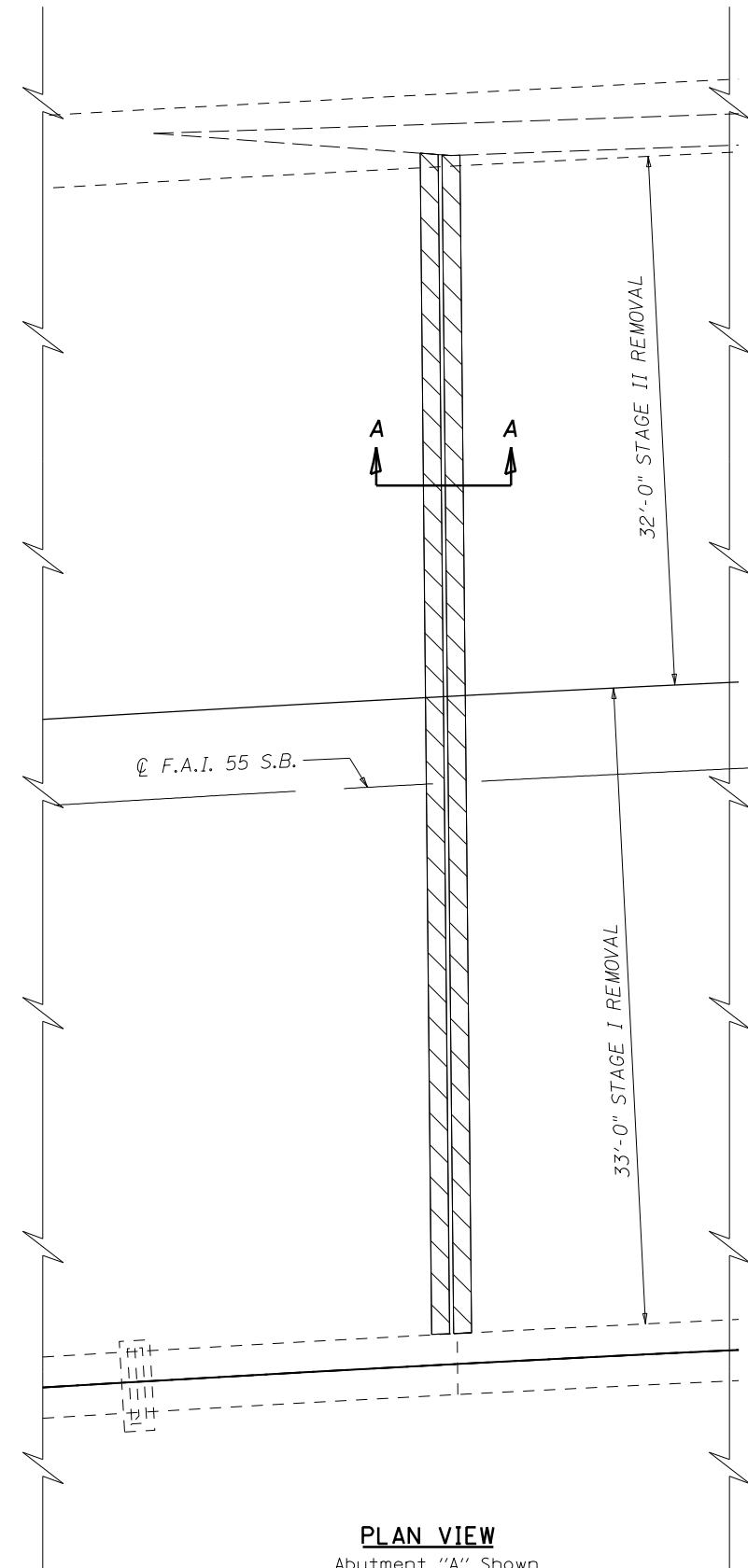
SECTION A-A



SECTION B-B

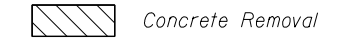


SECTION C-C



PLAN VIEW
Abutment "A" Shown
Abutment "B" similar

LEGEND:



NOTE:

Abutment "A" Shown, Abutment "B" Similar.
Existing Reinforcement Bars Extending Into The Removal Area shall Be Cleaned, Straightened And Incorporated Into The New Construction. Any Reinforcement Bars That Are Damaged During Concrete Removal Shall Be Replaced With An Approved Bar Splicer or Anchorage System. Cost Included With Concrete Removal.
All Existing Reinforcement in Parapets and Wingwalls to Remain in Place.

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu Yd	8.8

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PROJECTS\057-0023\057-0023\Structures\70E15\Structures\057-0023\Structures\057-0023\Structures.dgn

USER NAME = shererjm	DESIGNED -	REVISED - JMS 033020
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PLOT DATE = 3/30/2020	CHECKED -	REVISED -
	DATE -	REVISED -

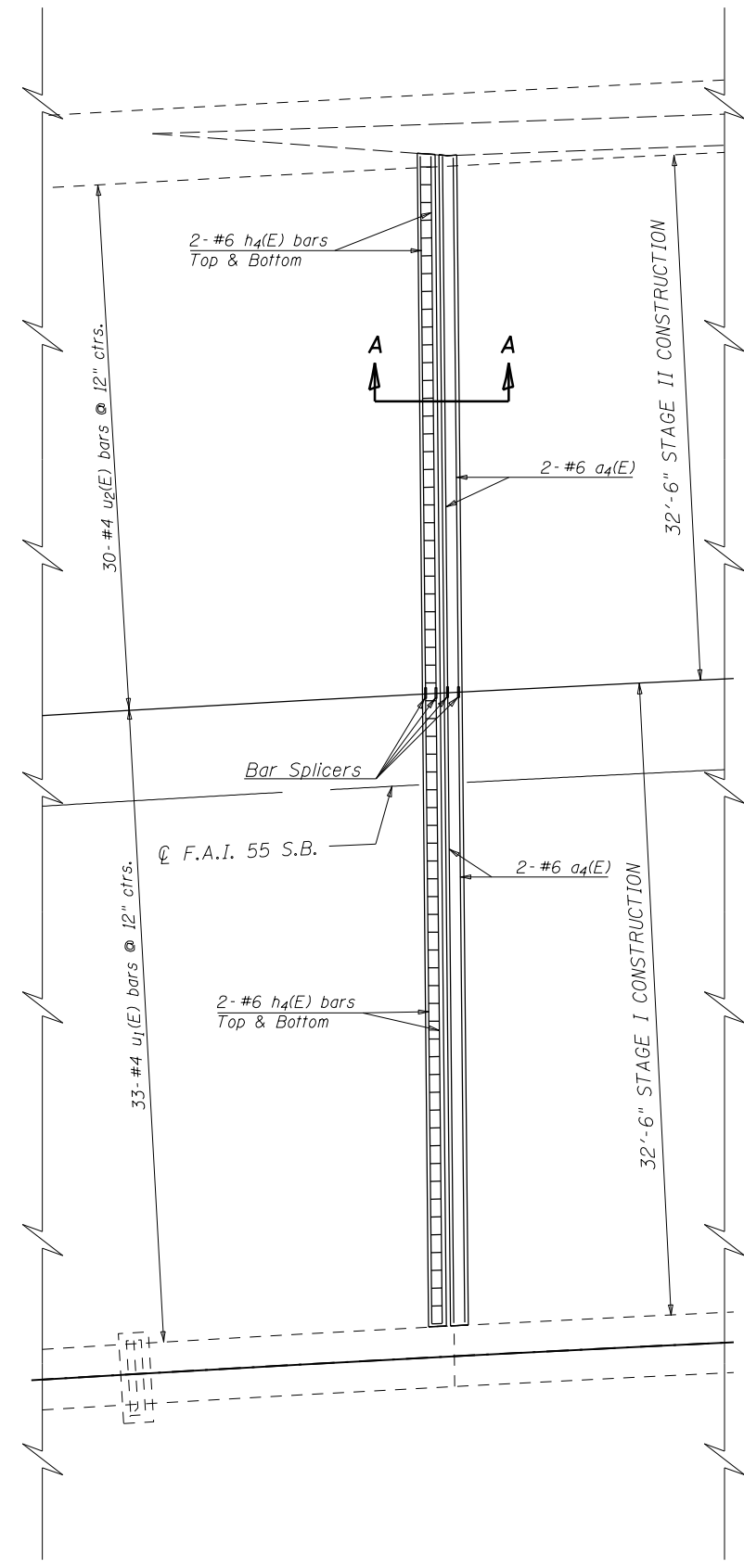
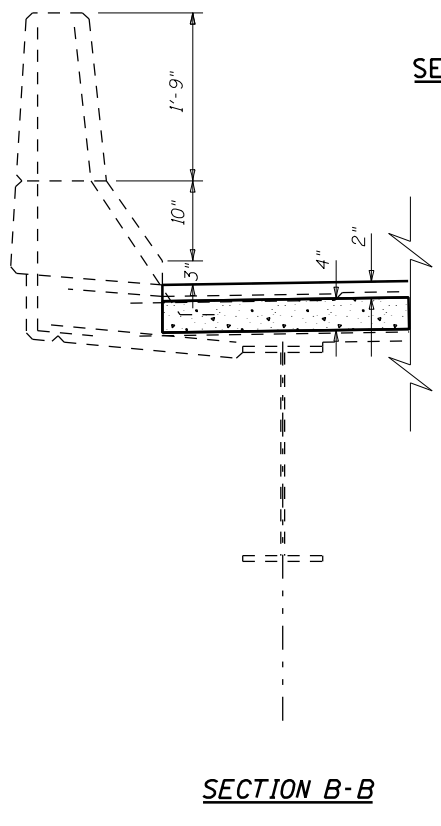
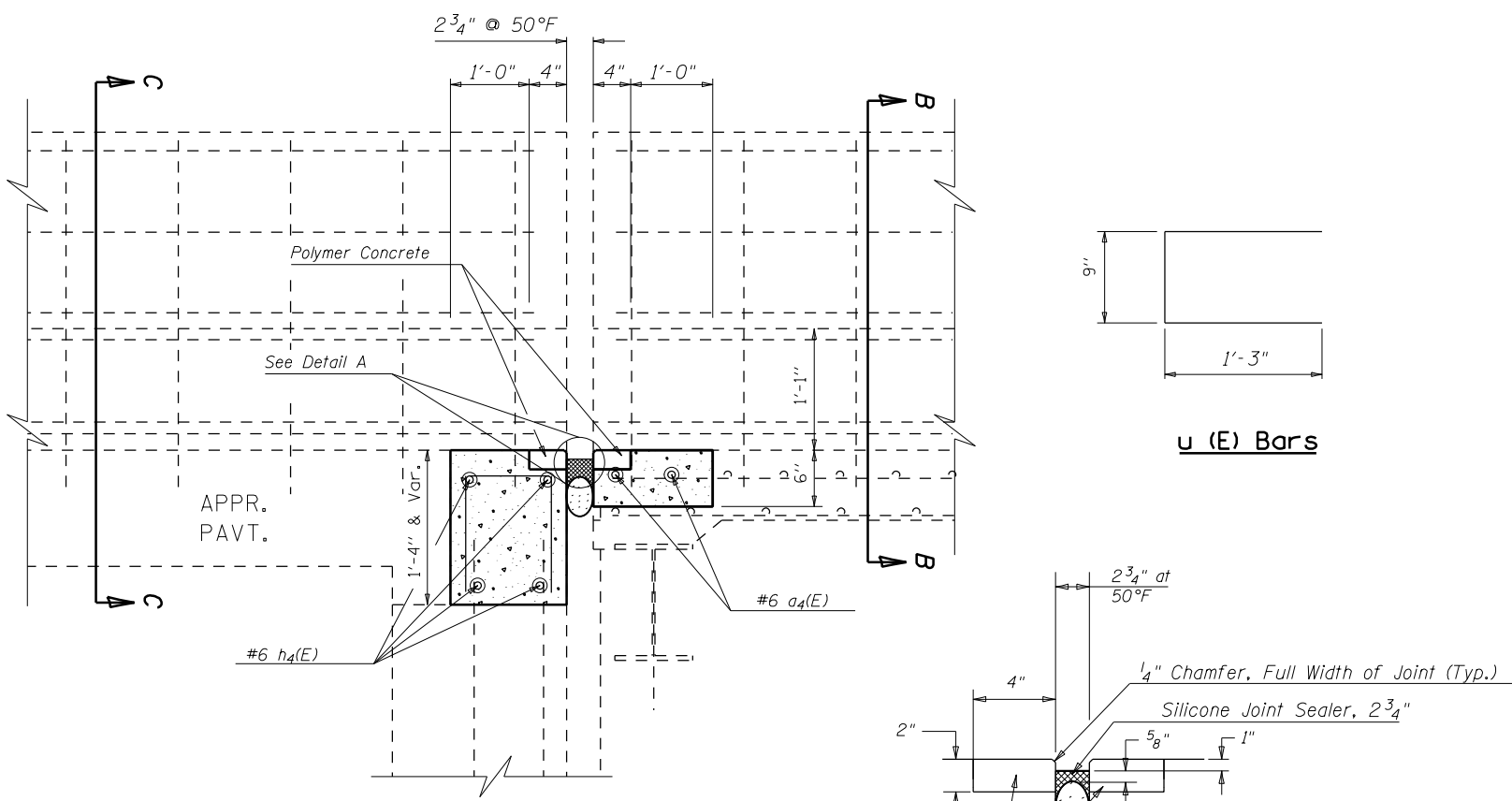
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF CONCRETE REMOVAL AT JOINTS
S.N. 057-0023 (S.B.)

SCALE: NONE SHEET 7 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	11
CONTRACT NO. 70E15			ILLINOIS FED. AID PROJECT	

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LEGEND:
 Concrete Superstructures

NOTES
 Abutment "A" Shown. Abutment "B" Similar.
 Reinforcement Bars Designated (E) shall Be Epoxy Coated.

Bar	No.	Size	Length	Shape
a ₄ (E)	8	#6	32'-3"	⎓
h ₄ (E)	16	#6	32'-3"	⎓
u ₁ (E)	126	#4	3'-3"	⎓
Reinforcement Bars, Epoxy Coated		Pound	1,446.0	
Bar Splicers		Each	12.0	
Concrete Superstructures		Cu Yd	8.3	
Silicone joint Sealer 2 3/4"		Foot	136.0	
Polymer Concrete		Cu ft	14.4	

USER NAME = shererjm	DESIGNED - JMS 033020	REVISED -
DRAWN -	REVISOR -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISOR -
PLOT DATE = 3/30/2020	DATE -	REVISOR -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETAIL OF CONCRETE SUPERSTRUCTURE AT JOINTS
 S.N. 057-0023 (S.B.)**

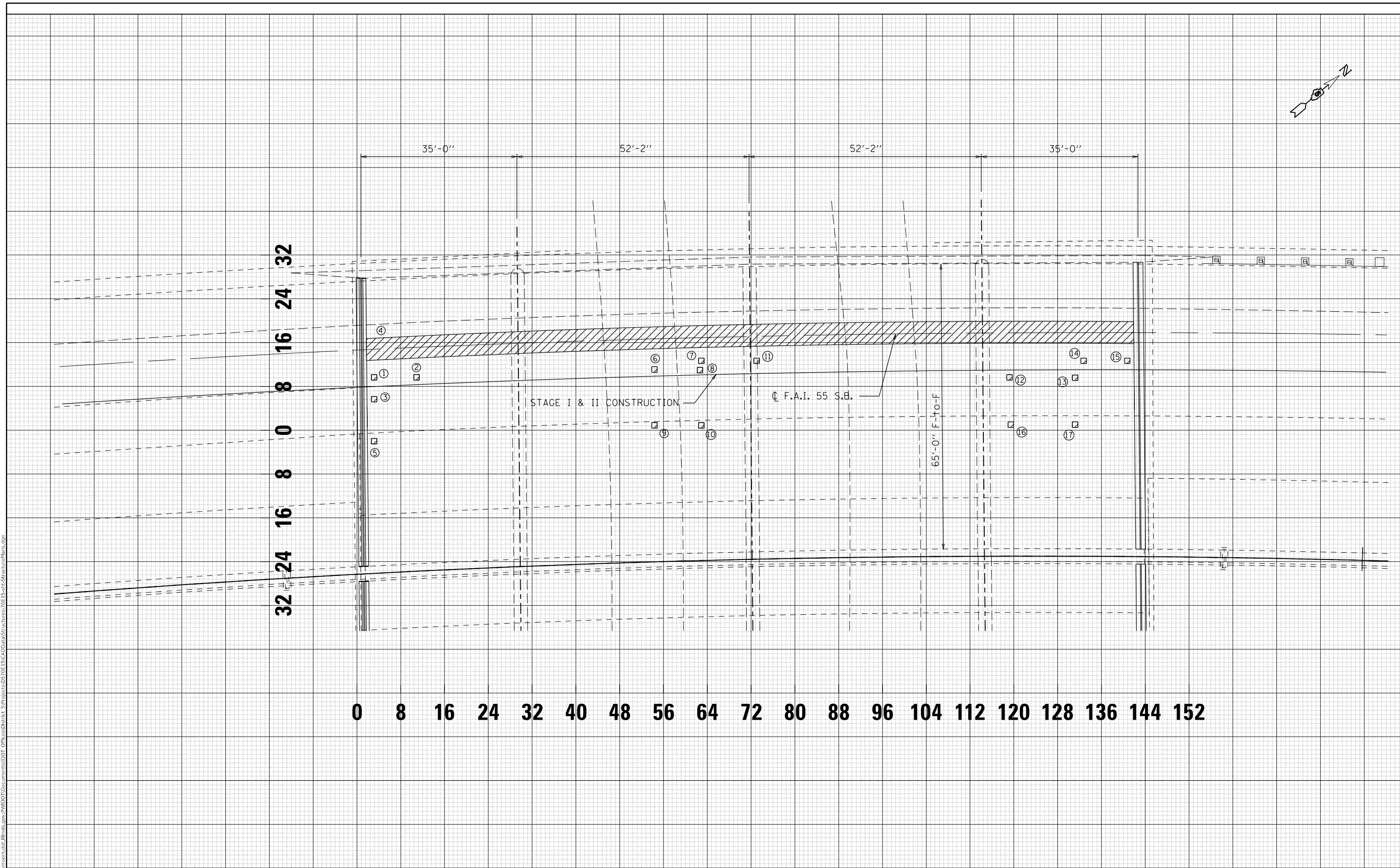
SCALE: NONE SHEET 8 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BR	Mclean	46	12
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = sherrjrn	DESIGNED -	REVISED - JMS 033020
PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 3/30/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**AS-BUILT DETAIL OF DECK SLAB REPAIR
 S.N. 057-0023 (S.B.)**

SCALE: 2.5 SHEET 9 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
72	(10-70)BR	CHAMPAIGN	46	13
			CONTRACT NO. 70D63	
ILLINOIS FED. AID PROJECT				

PATCH NO.	SIZE		DECK SLAB REPAIR (PARTIAL DEPTH) SQ YD
	LENGTH (FT)	WIDTH (FT)	
1	175.0	4.0	77.8
2	1.0	1.0	0.1
3	1.0	1.0	0.1
4	1.0	1.0	0.1
5	1.0	1.0	0.1
6	1.0	1.0	0.1
7	1.0	1.0	0.1
8	1.0	1.0	0.1
		TOTAL =	78.6
		USE =	79.0

PATCH NO.	SIZE		DECK SLAB REPAIR (PARTIAL DEPTH) SQ YD
	LENGTH (FT)	WIDTH (FT)	
9	1	1	0.1
10	1	1	0.1
11	1	1	0.1
12	1	1	0.1
13	1	1	0.1
14	1	1	0.1
15	1	1	0.1
16	1	1	0.1
17	1	1	0.1
		TOTAL =	0.9
		USE =	1.0

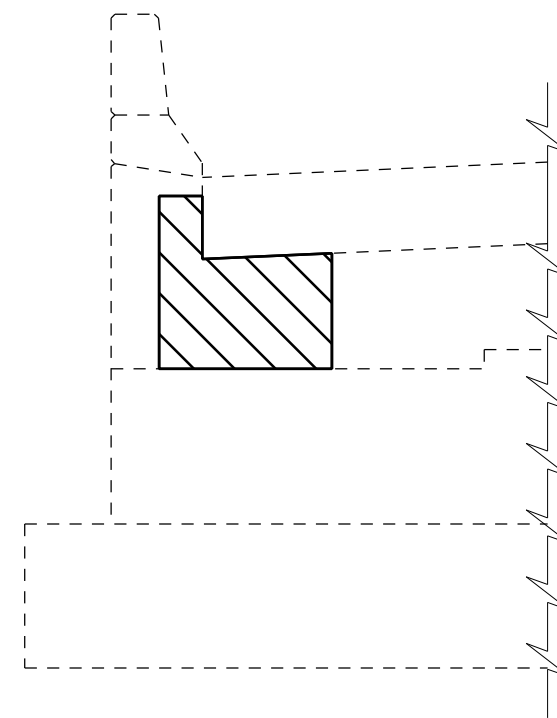
NOTES:

AREA OF DECK SLAB REPAIR HAVE BEEN ESTIMATED FROM OCT., 2019 DECK SURVEY. THE ACTUAL QUANTITY AND LOCATIONS SHALL BE DETERMINED BY THE ENGINEER. THE ENGINEER SHALL SHOW THE ACTUAL LOCATIONS OF THE DECK REPAIRS ON DECK PATCHING DETAIL SHEETS.

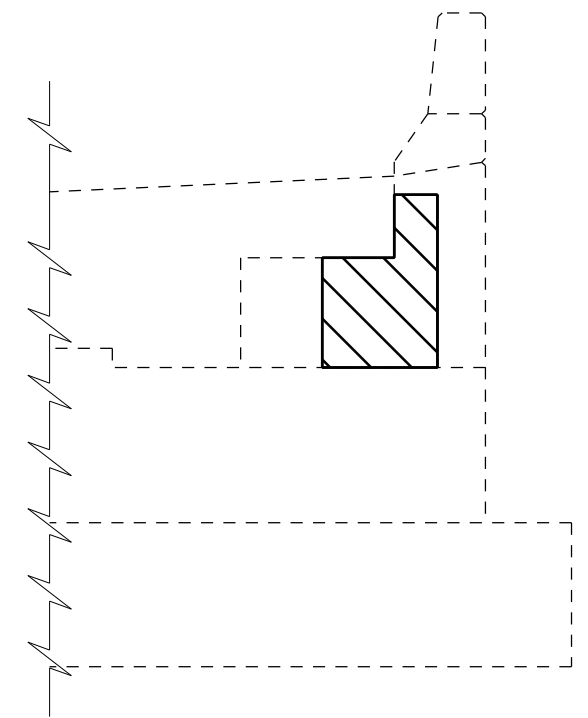
AREA OF APPROACH SLAB REPAIR HAS BEEN ESTIMATED AT 5% OF TOTAL AREA OF THE APPROACH PAVEMENTS. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF THE APPROACH SLAB REPAIRS ON A SEPARATE DETAIL SHEET.

BILL OF MATERIALS

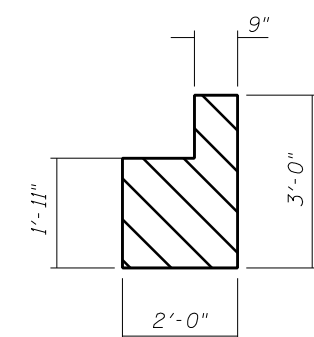
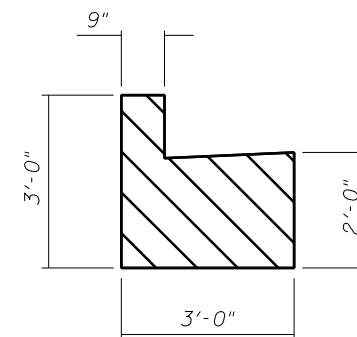
ITEM	UNIT	TOTAL
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	59.0
DECK SLAB REPAIR (PARTIAL DEPTH)	SQ YD	80.0



057-0023 NORTH ABUTMENT (LOOKING NORTH)



057-0023 SOUTH ABUTMENT (LOOKING SOUTH)



BILL OF MATERIALS

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONC. =< 5"	SQ FT	12.0

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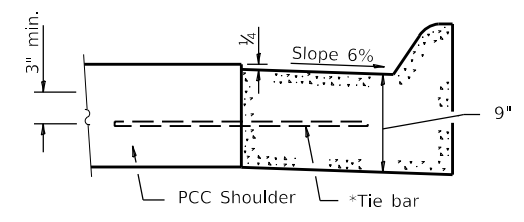
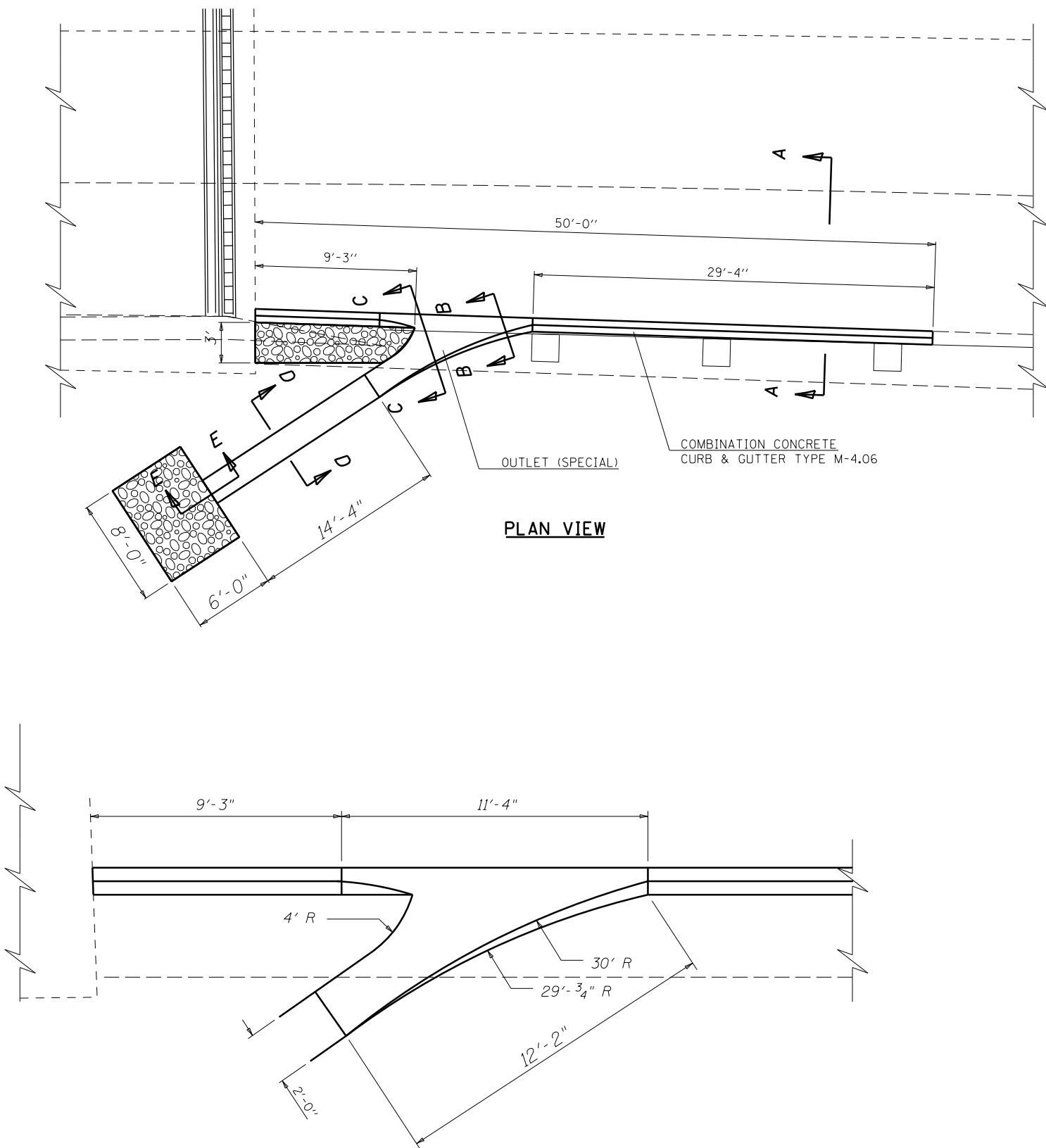
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	DRAWN -	REVISED -
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PLOT DATE = 1/8/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF STRUCTURAL REPAIR OF CONCRETE
S.N. 057-0023 (S.B.)**

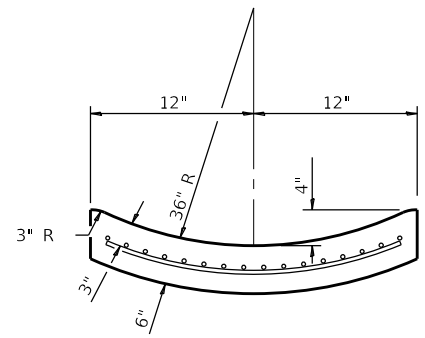
SCALE: NONE SHEET 10 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	14
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

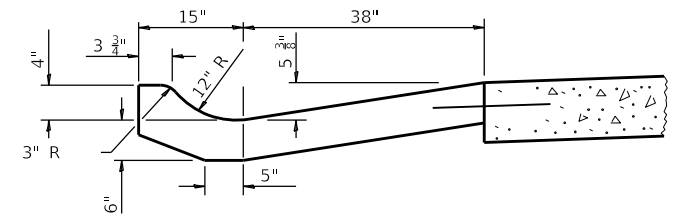


SECTION A-A M-4.06
(See Standard 606001-07 for additional information)

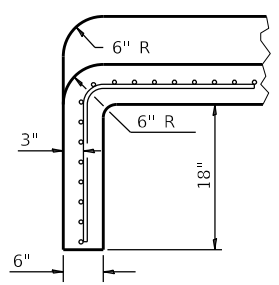
*Cost included with M-4.06 & Class SI Concrete Outlet (Special)



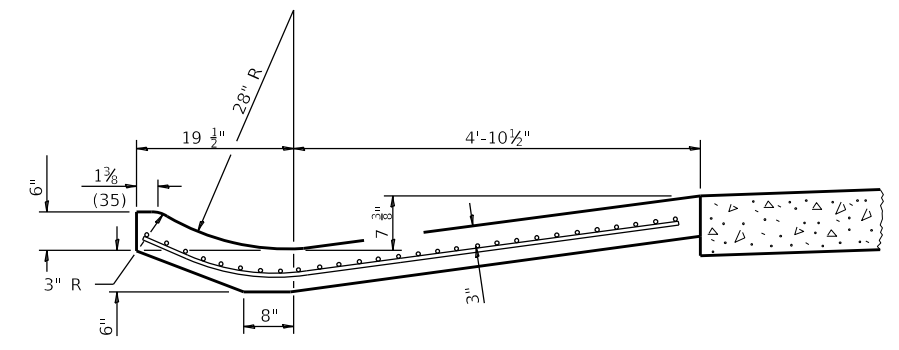
SECTION D-D



SECTION B-B



SECTION E-E



SECTION C-C

BILL OF MATERIALS

Item	Unit	Total
Earth Excavation	Cu Yd	3.0
Stone Riprap, Class A4	Sq Yd	9.0
Combination Concrete Curb and Gutter, Type M 4.06	Cu Yd	39.0
Class SI Concrete (Outlet) Special	Cu Yd	1.2

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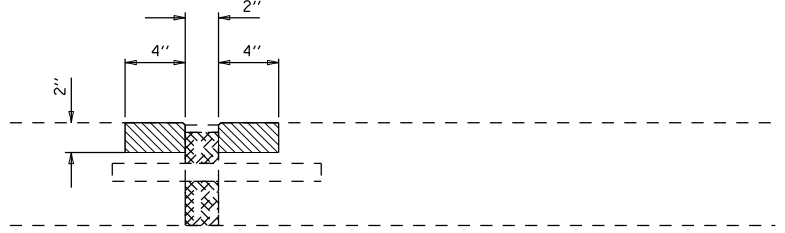
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PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 1/8/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

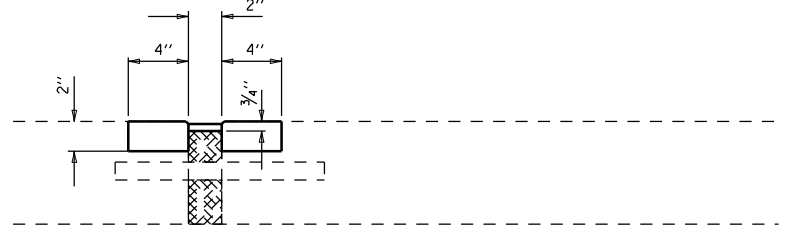
**DETAIL OF CLASS SI CONCRETE (OUTLET) SPECIAL
S.N. 057-0022 (N.B.)**

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

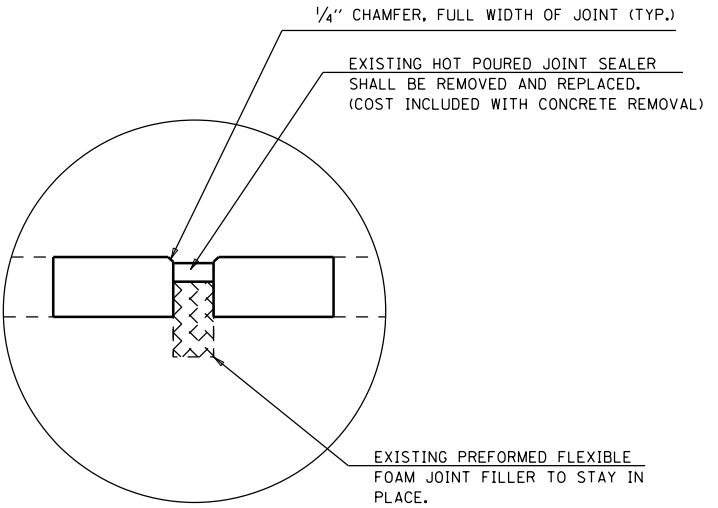
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	15
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				



REMOVAL AT TRANSVERSE EXPANSION JOINT



POLYMER CONCRETE AT TRANSVERSE EXPANSION JOINT



SEALING DETAIL

- CONCRETE REMOVAL
- POLYMER CONCRETE

BILL OF MATERIALS (FOUR JOINTS)

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	1.1
POLYMER CONCRETE	CU FT	28.6

MODEL: \\MODEL\MARFS
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USER NAME = shererjm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 1/8/2020	DATE -	REVISED -

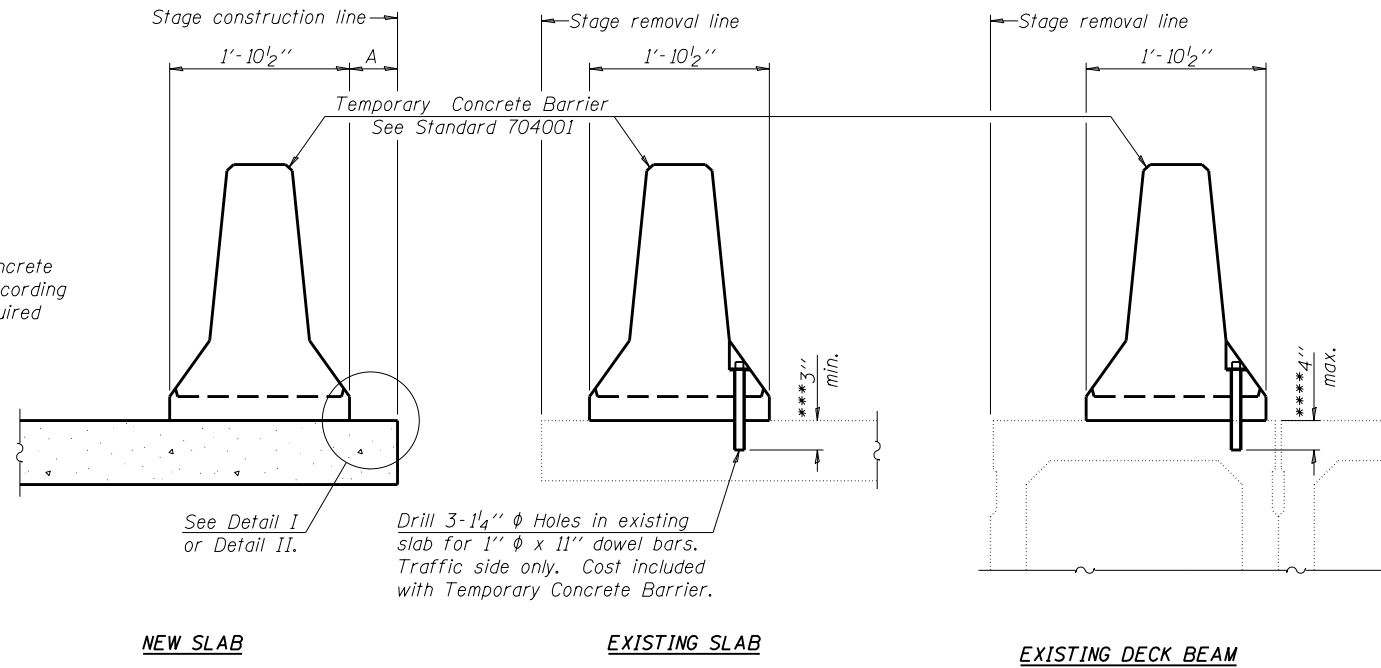
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAIL OF POLYMER CONCRETE AT TRANSVERSE
EXPANSION JOINTS AT APPROACH PAVEMENTS**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	16
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

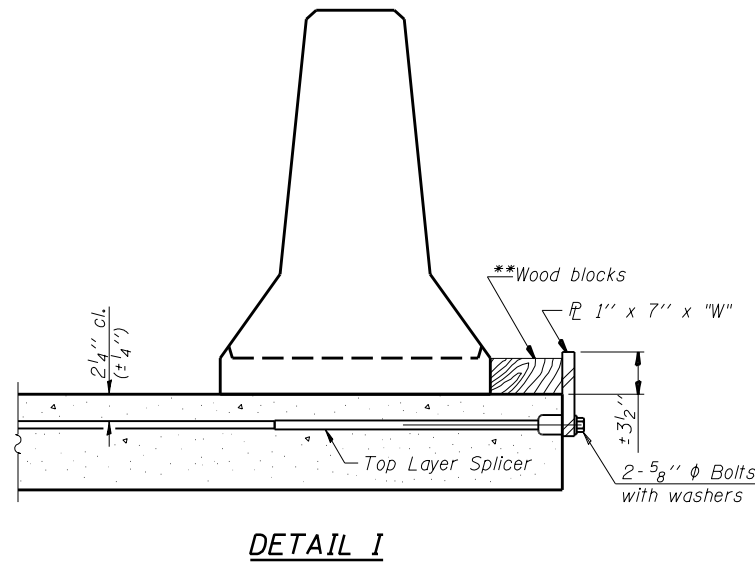
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

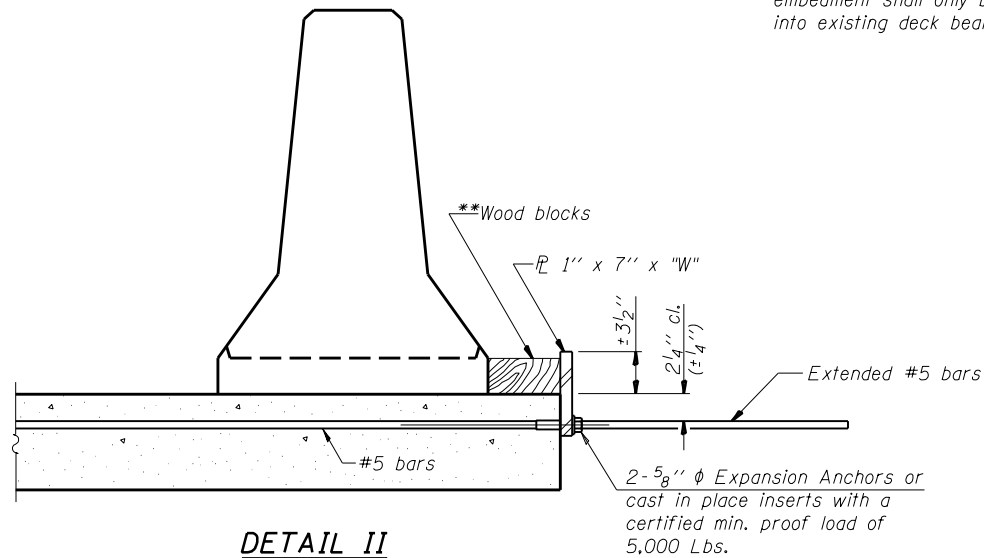
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

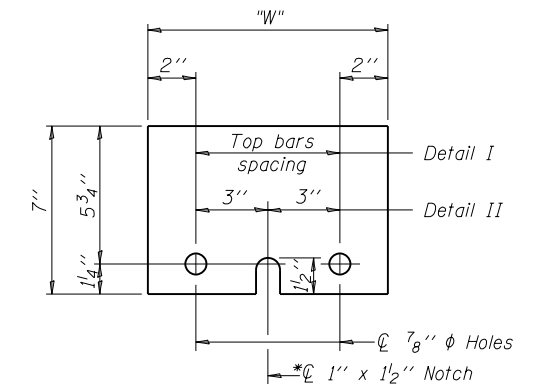
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

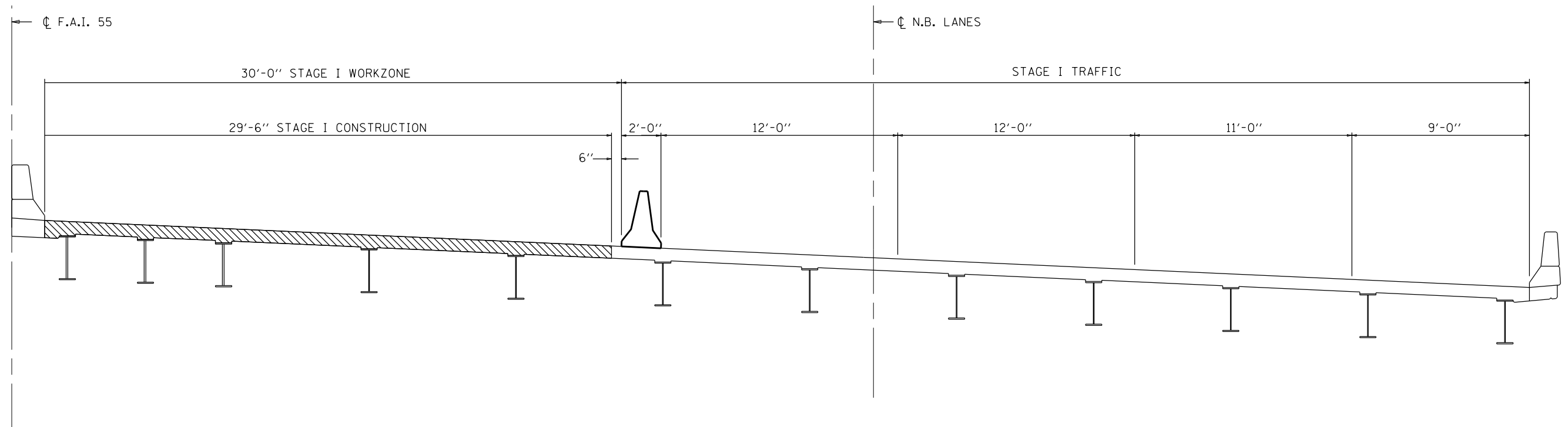
"W" = Top bars spacing + 4"

R-27

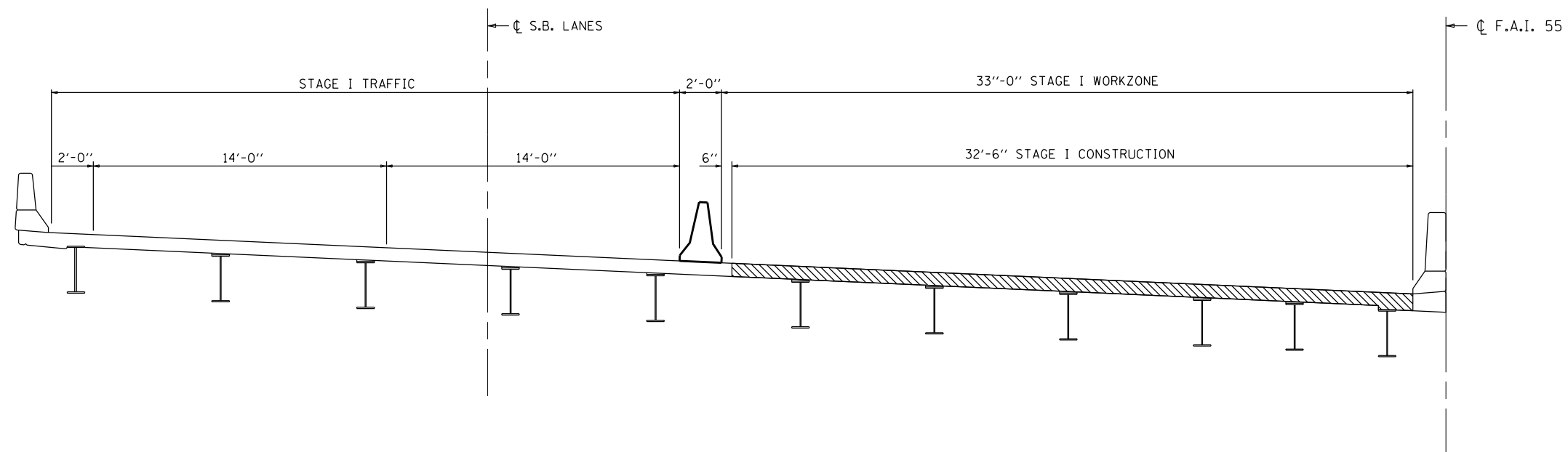
7-1-10

FILE NAME =	USER NAME = shererjm	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION S.N. 020-0020			F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
px:\planroom.dot\illinois.gov\PWIDOT\Documents\IDOT Offices\District 5\Projects\0570E\DRAWING\Structures\70E15-shr-Structure\REVISED -		CHECKED -	REVISED -					55	(57-5)BJR	MCLEAN	46	17
PLOT SCALE = 40.0000' / in.		DATE -	REVISED -					CONTRACT NO. 70E15				
PLOT DATE = 1/8/2020								ILLINOIS FED. AID PROJECT				
					SCALE: None	SHEET 20	OF 20 SHEETS	STA.	TO STA.			

STAGE I CONSTRUCTION DETAIL
S.N. 057-0022 N.B. (LOOKING NORTH)



STAGE I CONSTRUCTION DETAIL
S.N. 057-0023 S.B. (LOOKING NORTH)



MODEL: \\MODELS\MAMES
 FILE: \\mames\pub\pub\mames\dot\illinois\p\70E15\CADD\Drawings\Traffic_Control_Staging

USER NAME = shererjm	DESIGNED - JMS	REVISED -
	DRAWN - JMS	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/8/2020	DATE - 120919	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL STAGING CROSS-SECTION
S.N. 057-0022 & S.N. 057-0023 STAGE I TRAFFIC

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	18
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL (SPECIAL) AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TRAFFIC CONTROL (SPECIAL) SEE HIGHWAY STANDARDS 701400, 701401, 701446.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANES. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE COVERED WITH BLACK OUT TAPE. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS WHERE DIRECTED. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD (SPECIAL).

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

*COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION 701402 (SPECIAL)

70400100 TEMPORARY CONCRETE BARRIER

		STATION	TO	STATION	LENGTH
STAGE I					
	057-0022 NB	278+10.70		282+48.20	437.5
(TAPER)	057-0022 NB	282+48.20		285+98.20	350.0
(TAPER)	057-0023 SB	278+16.00		274+78.50	337.5
	057-0023 SB	278+16.00		282+41.00	425.0
TOTAL =					1550.0

***TEMPORARY PAVEMENT MARKING TAPE - LINE 4"**

STAGE I				LT EDGE LINE	CTR LINE	RT EDGE LINE
				YELLOW	WHITE	WHITE
STRUCTURE	STATION	TO	STATION	FOOT	FOOT	FOOT
057-0022 NB	273+00.00		293+00.00	2,000.0	2,000.0	2,000.0
RAMP "E"	286+00.00		291+00.00	500.0	-	-
RAMP "E"	273+00.00		291+00.00	-	-	1,800.0
057-0023 SB	271+00.00		287+42.00	1,642.0	1,642.0	1,642.0
TOTAL =				4,142.0	3,642.0	5,442.0

***PAVEMENT MARKING BLACKOUT TAPE**

STAGE I				
STRUCTURE	STATION	TO	STRUCTURE	FOOT
057-0022 NB	273+00.00		293+00.00	6000.0
RAMP "E"	273+00.00		291+00.00	1800.0
057-0023 SB	272+00.00		287+41.25	4624.0
TOTAL =				12,424.0
USE =				12,424.0

***WORKZONE PAVEMENT MARKING REMOVAL**

STAGE I				LT EDGE LINE	CTR LINE	RT EDGE LINE
				YELLOW	WHITE	WHITE
STRUCTURE	STATION	TO	STATION	SQ FT	SQ FT	SQ FT
057-0022 NB	273+00.00		293+00.00	666.0	666.0	666.0
RAMP "E"	286+00.00		291+00.00	166.5	-	-
RAMP "E"	273+00.00		291+00.00	-	-	599.4
057-0023 SB	271+00.00		287+42.00	546.8	546.8	546.8
TOTAL =				1,379.3	1,212.8	1,812.2
USE =				1,380.0	1,213.0	1,813.0

70600250 IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3

	STATION	EACH
STAGE I		
057-0022 NB	285+98.20	1.0
057-0023 SB	274+78.50	1.0
TOTAL =		2.0

BILL OF MATERIALS

ITEM	UNIT	TOTAL
TEMPORARY CONCRETE BARRIER	FOOT	1,550.0
IMPACT ATTENUATOR TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	EACH	2.0

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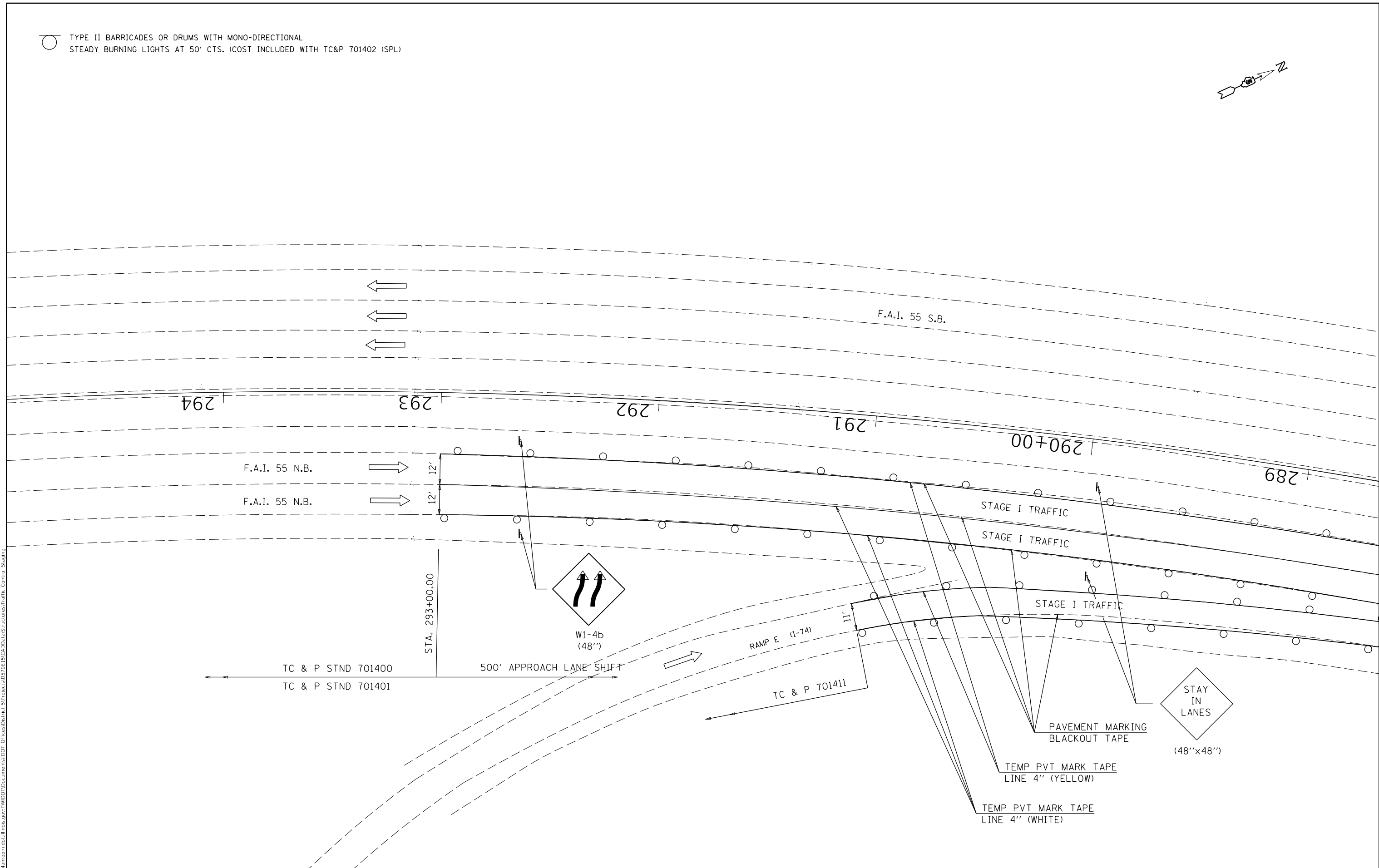
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 & S.N. 057-0023 STAGE I TRAFFIC**

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	19
			CONTRACT NO. 70E15	
		ILLINOIS	FED. AID PROJECT	

TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P 701402 (SPL))



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PLOT DATE = 1/8/2020	DATE - 120919	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 & S.N. 057-0023 STAGE I TRAFFIC**

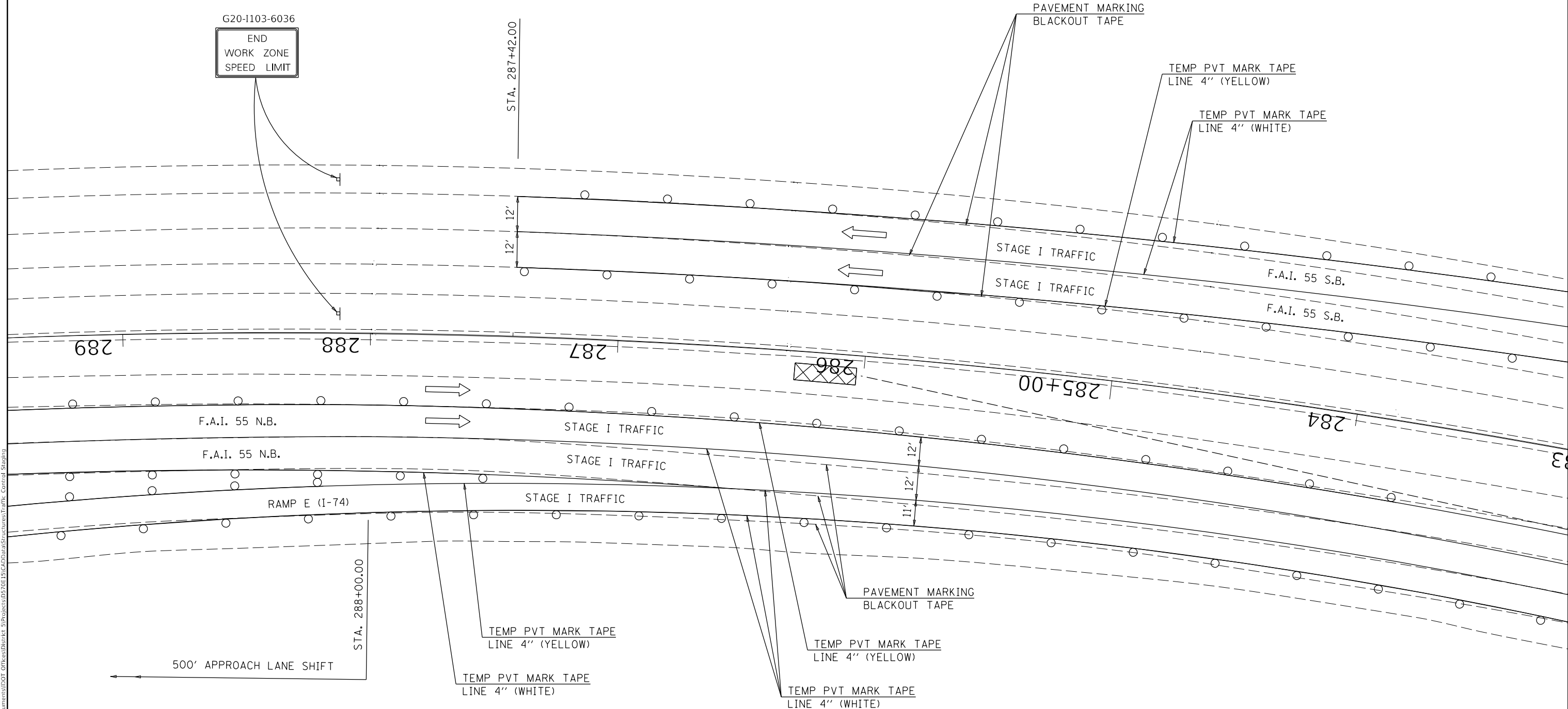
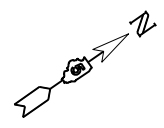
SCALE: 1" = 20' SHEET 3 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	20
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

○ TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P 701402 (SPL))

--- TEMPORARY CONCRETE BARRIER

▣ IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3



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

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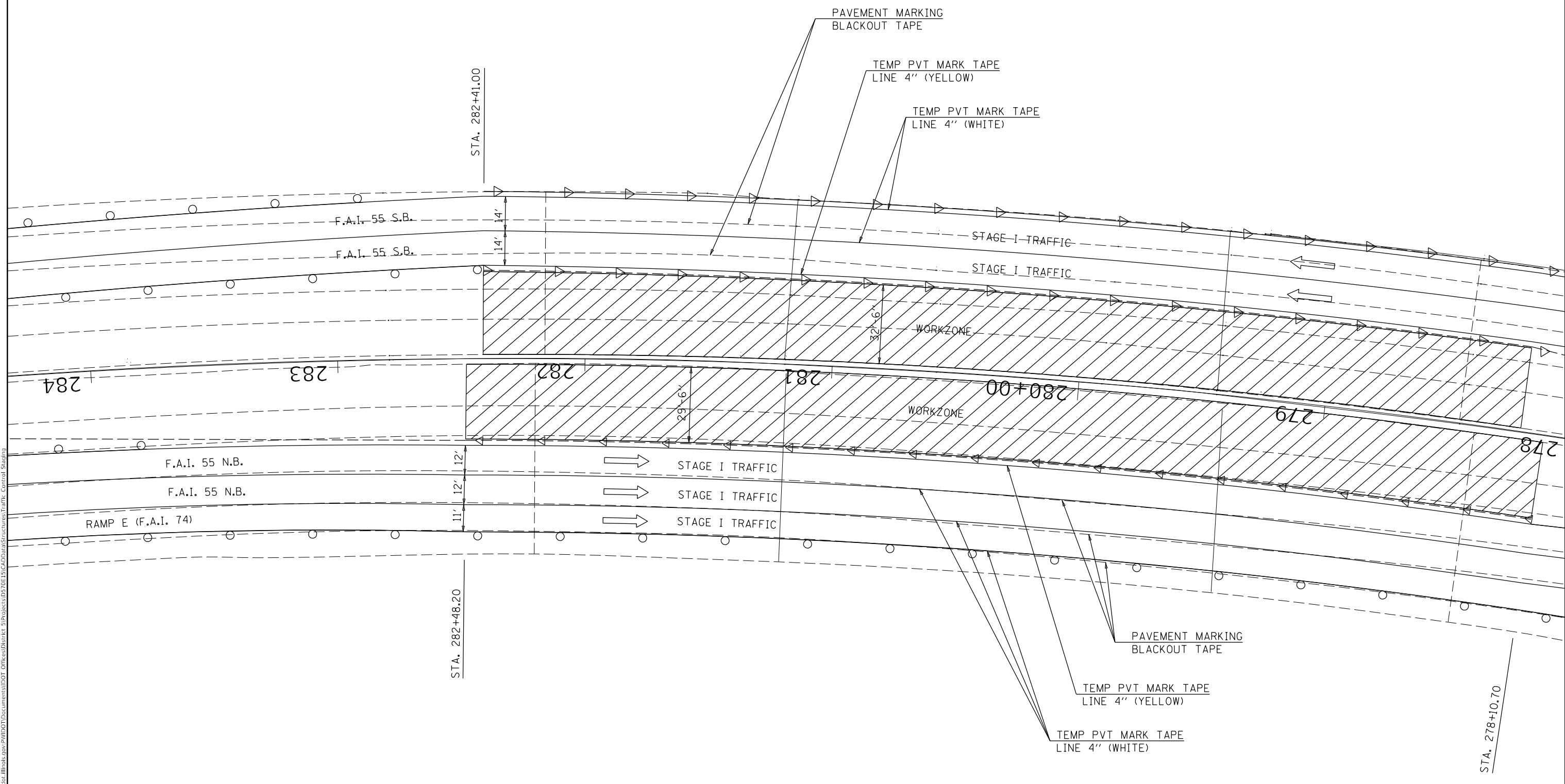
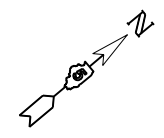
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 & S.N. 057-0023 STAGE I TRAFFIC**

SCALE: 1" = 20' SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	21
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

-  TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P 701402 (SPL))
-  TEMPORARY CONCRETE BARRIER
-  MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



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PLOT DATE = 1/8/2020	DATE - 120919	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 & S.N. 057-0023 STAGE I TRAFFIC

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	22
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 20' SHEET 5 OF 7 SHEETS STA. TO STA.



○ TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P 701402 (SPL))

- - - TEMPORARY CONCRETE BARRIER

▤ IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3

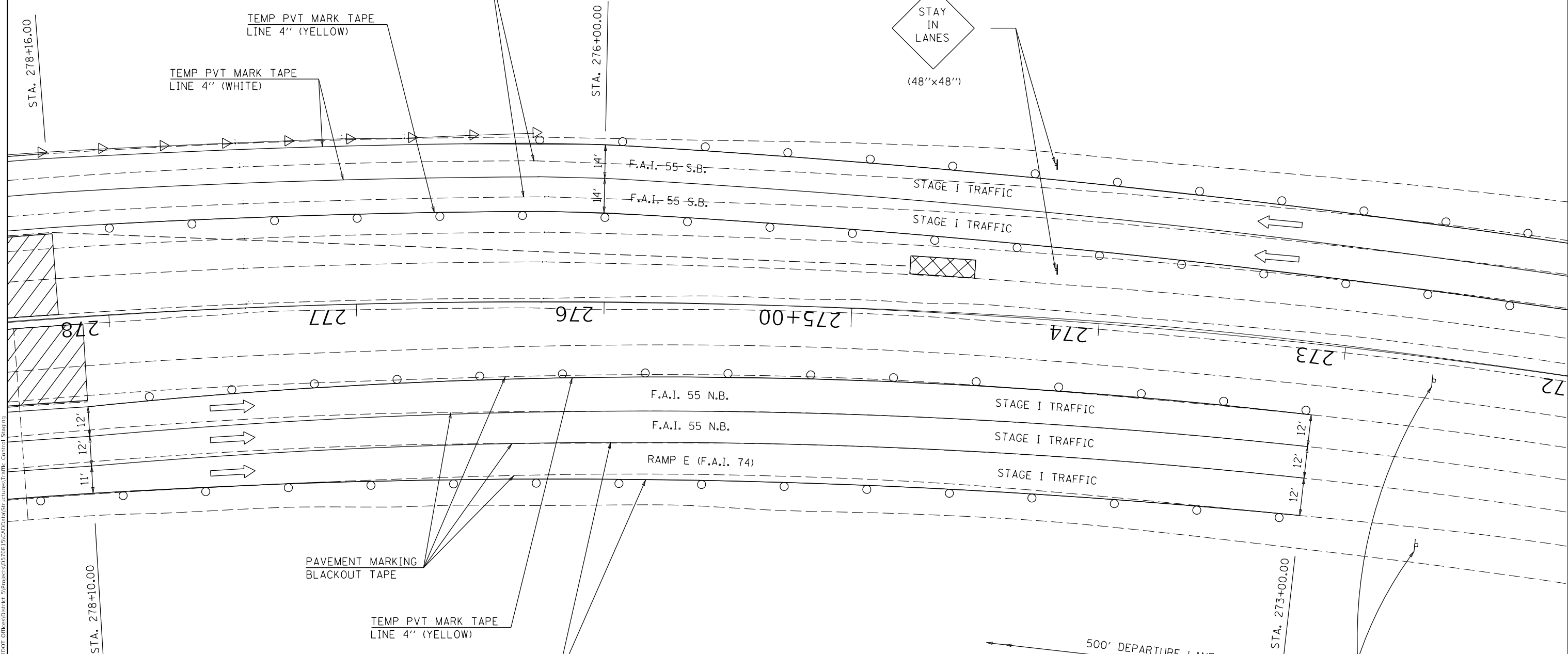
◁ MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR

PAVEMENT MARKING BLACKOUT TAPE

TEMP PVT MARK TAPE LINE 4" (YELLOW)

TEMP PVT MARK TAPE LINE 4" (WHITE)

STAY IN LANES
(48"x48")



PAVEMENT MARKING BLACKOUT TAPE

TEMP PVT MARK TAPE LINE 4" (YELLOW)

TEMP PVT MARK TAPE LINE 4" (WHITE)

500' DEPARTURE LANE SHIFT

G20-1103-6036
END WORK ZONE SPEED LIMIT

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DRAWN - JMS	REVISOR -	
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PLOT DATE = 1/8/2020	DATE - 120919	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 & S.N. 057-0023 STAGE I TRAFFIC**

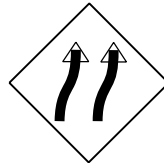
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	23
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

SCALE: 1" = 20' SHEET 6 OF 7 SHEETS STA. TO STA.

TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P 701402 (SPL))



500' APPROACH LANE SHIFT
 TC & P 701400
 TC & P 701401



W1-4b
 (48'')

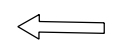
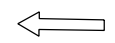
271+00.00

STAGE I TRAFFIC

STAGE I TRAFFIC

12'

12'



F.A.I. 55 S.B.

F.A.I. 55 S.B.

272

271

270+00

269

268

267

266



F.A.I. 55 N.B.

MODEL: \\MODELS\MJMS
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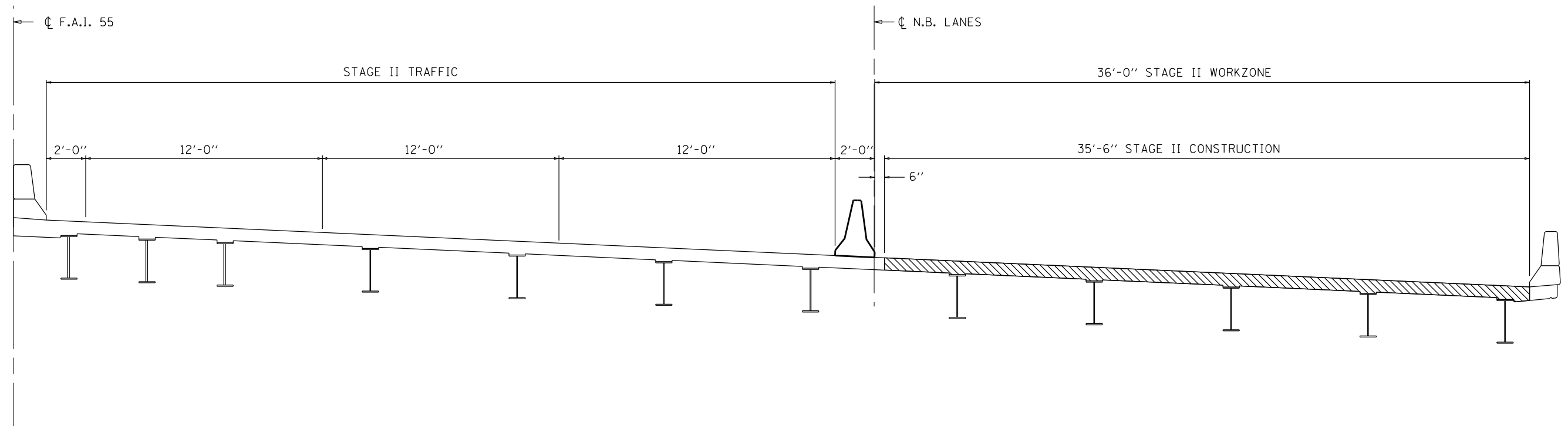
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
 S.N. 057-0022 & S.N. 057-0023 STAGE I TRAFFIC**

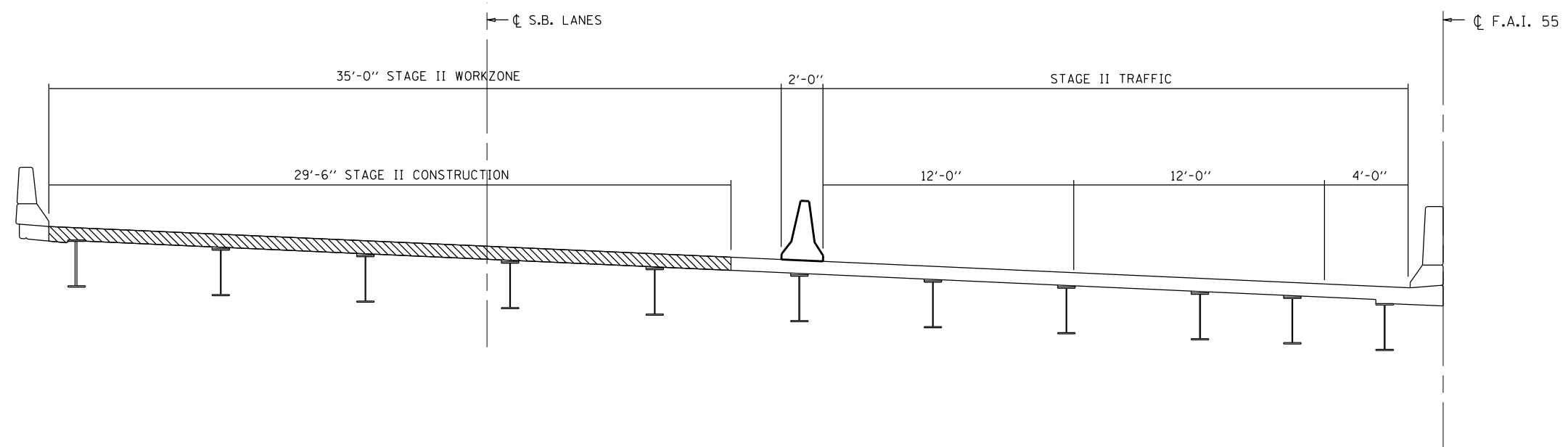
SCALE: 1" = 20' SHEET 7 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	24
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

**STAGE II CONSTRUCTION DETAIL
S.N. 057-0022 N.B. (LOOKING NORTH)**



**STAGE II CONSTRUCTION DETAIL
S.N. 057-0023 S.B. (LOOKING NORTH)**



MODEL: \\MODELM\AMFES
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PLOT DATE	= 1/8/2020				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL STAGING CROSS-SECTION			
S.N. 057-0022 & 057-0023 STAGE II TRAFFIC			
SCALE: NONE	SHEET 1	OF 7 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	25
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL (SPECIAL) AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TRAFFIC CONTROL (SPECIAL) SEE HIGHWAY STANDARDS 701400, 701401, 701446.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANES. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE COVERED WITH BLACK OUT TAPE. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS WHERE DIRECTED. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD (SPECIAL).

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

*COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION 701402 (SPECIAL)

***TEMPORARY PAVEMENT MARKING TAPE - LINE 4"**

STAGE II				LT EDGE LINE	CTR LINE	RT EDGE LINE
STRUCTURE	STATION	TO	STATION	YELLOW FOOT	WHITE FOOT	WHITE FOOT
057-0022 NB	273+00.00		293+00.00	2,000.0	2,000.0	2,000.0
RAMP "E"	282+48.00		291+00.00	852.0	-	-
RAMP "E"	273+00.00		291+00.00	-	-	1,800.0
057-0023 SB	271+00.00		287+42.00	1,642.0	1,642.0	1,642.0
TOTAL =				4,494.0	3,642.0	5,442.0

***PAVEMENT MARKING BLACKOUT TAPE**

STAGE II				
STRUCTURE	STATION	TO	STRUCTURE	FOOT
057-0022 NB	273+00.00		293+00.00	6000.0
RAMP "E"	278+16.00		291+00.00	485.0
057-0023 SB	271+00.00		278+42.43	1500.0
TOTAL =				7,985.0
USE =				7,985.0

***WORKZONE PAVEMENT MARKING REMOVAL**

STAGE II				LT EDGE LINE	CTR LINE	RT EDGE LINE
STRUCTURE	STATION	TO	STATION	YELLOW SQ FT	WHITE SQ FT	WHITE SQ FT
057-0022 NB	273+00.00		293+00.00	666.0	666.0	666.0
RAMP "E"	282+48.00		291+00.00	283.7	-	-
RAMP "E"	273+00.00		291+00.00	-	-	599.4
057-0023 SB	271+00.00		287+42.00	546.8	546.8	546.8
TOTAL =				1,496.5	1,212.8	1,812.2
USE =				1,979.0	7,979.0	1,979.0

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

	STATION	TO	STATION	LENGTH
STAGE II				
	057-0022 NB		282+47.90	450.0
(TAPER)	057-0022 NB		285+85.70	337.5
	057-0023 SB		282+41.00	425.0
(TAPER)	057-0023 SB		274+78.50	337.5
TOTAL =				1550.0

70600350 IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3

	STATION	EACH
STAGE II		
	057-0022 NB	1.0
	057-0023 SB	1.0
TOTAL =		2.0

BILL OF MATERIALS

ITEM	UNIT	TOTAL
REL TEMPORARY CONCRETE BARRIER	FOOT	1,550.0
IMPACT ATTENUATOR RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3	EACH	2.0

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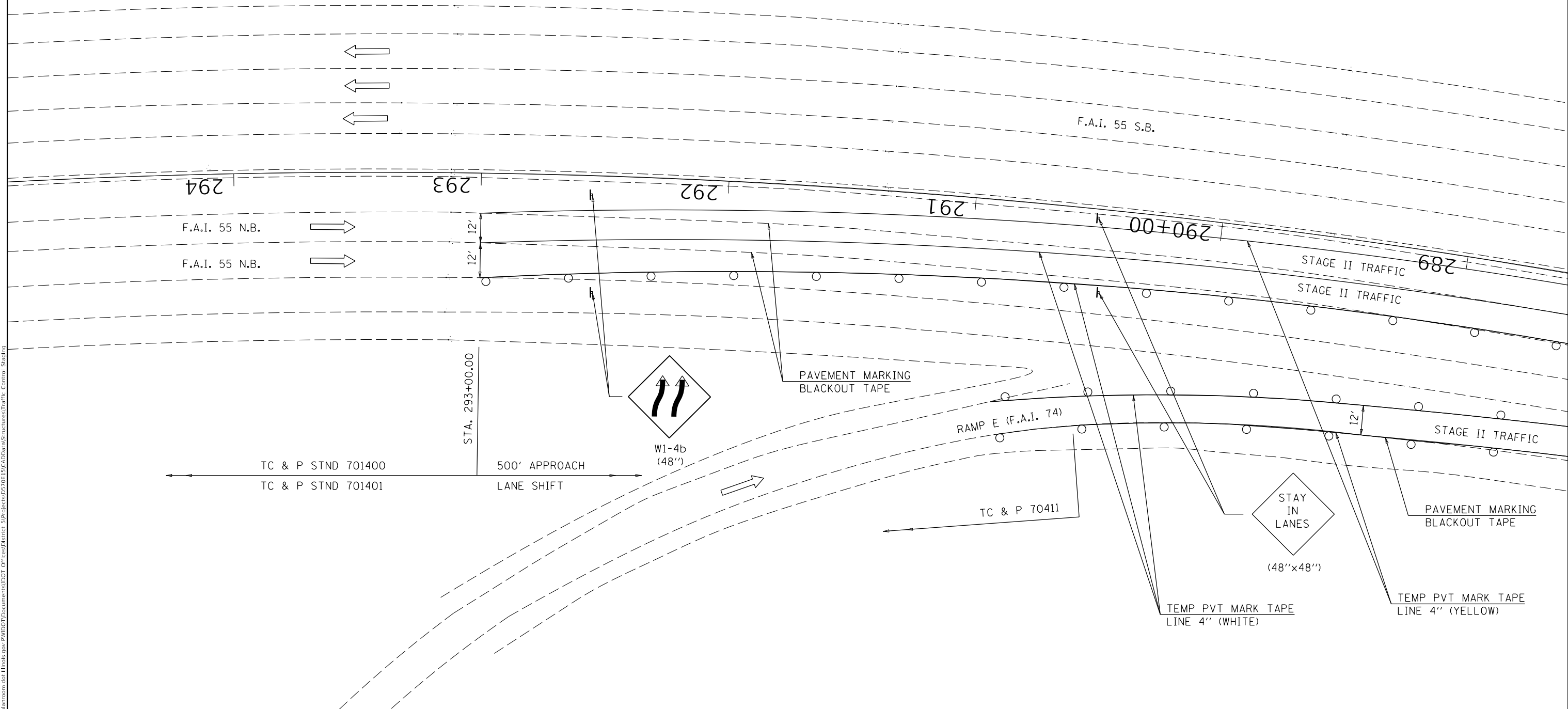
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 & S.N. 057-0023 STAGE II TRAFFIC**

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	26
				CONTRACT NO. 70E15
				ILLINOIS FED. AID PROJECT

TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P 701402 (SPL))



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PLOT DATE = 1/8/2020	DATE - 120919	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 & 057-0023 STAGE II TRAFFIC**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	27
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

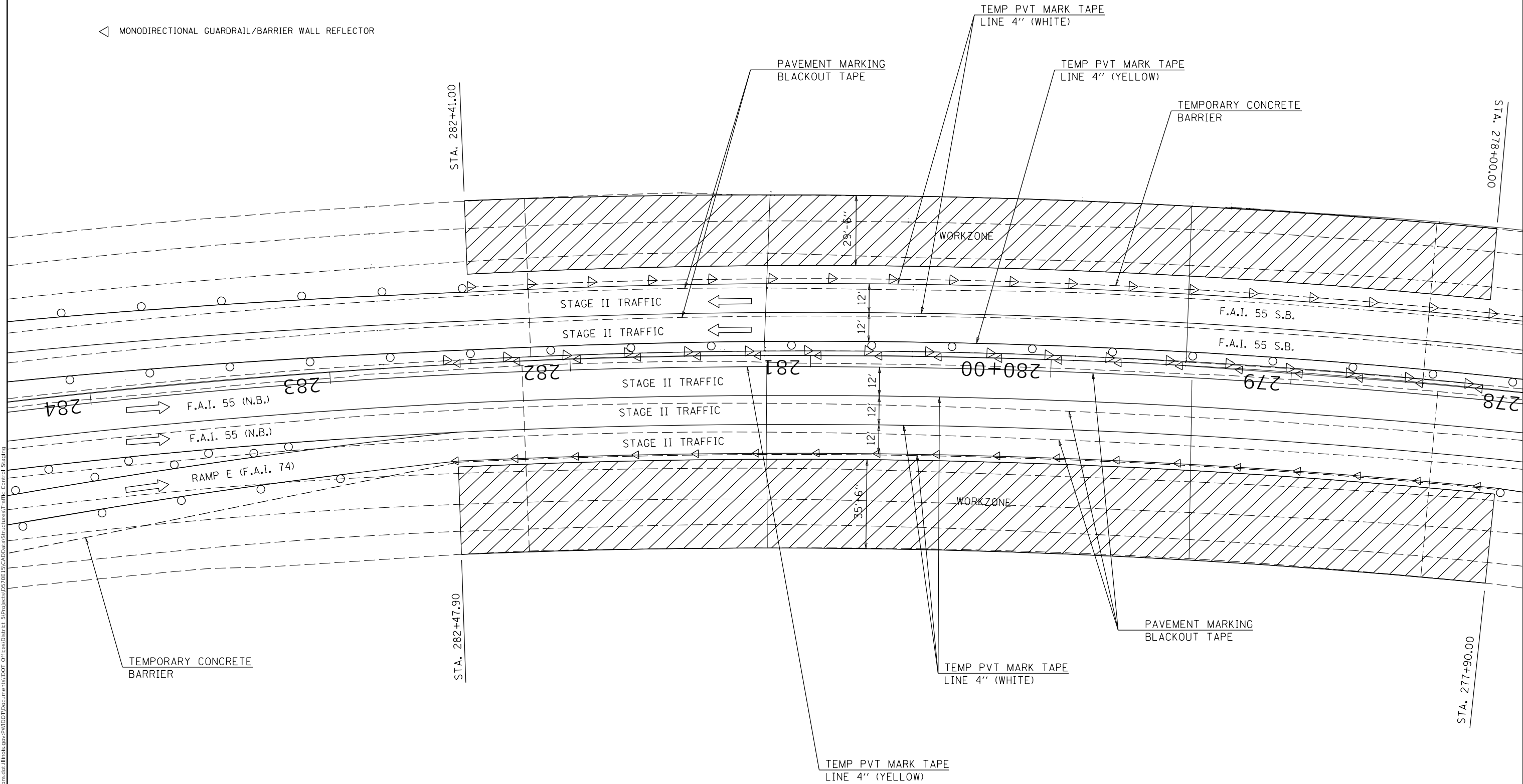
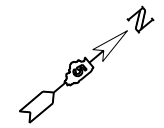
SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

○ TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P 701402 (SPL))

--- TEMPORARY CONCRETE BARRIER

▨ IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3

◁ MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



MODEL: \\MODELS\MJMS
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PLOT DATE = 1/8/2020	DATE - 120919	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 & 057-0023 STAGE II TRAFFIC**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BR	MCLEAN	46	29
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

○ TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P 701402 (SPL))

--- TEMPORARY CONCRETE BARRIER

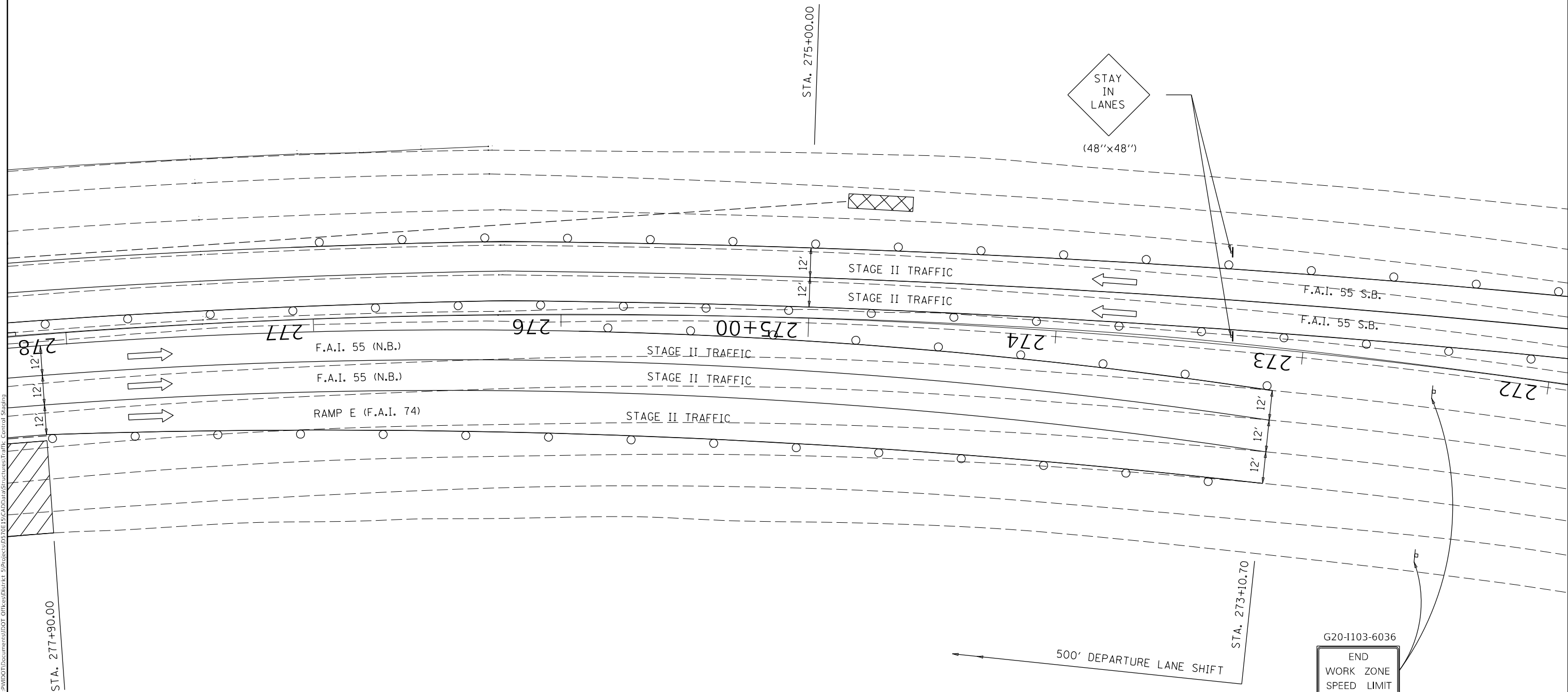
▣ IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3



STA. 275+00.00



(48"×48")



G20-I103-6036

END
WORK ZONE
SPEED LIMIT

MODEL: \\MODELS\MAMES
 FILE: \\mames\pub\pub\mames\dot\illinois\pms\PHDOT\Documents\DOT_Offices\Bartlett_S\Projects\DE2015\B\CADD\Data\Structures\Traffic_Control_Signing

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PLOT SCALE = 40.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 1/8/2020	CHECKED - JMS	REVISED -
	DATE - 120919	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 & 057-0023 STAGE II TRAFFIC**

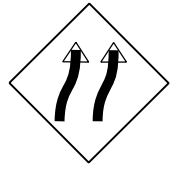
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	30
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

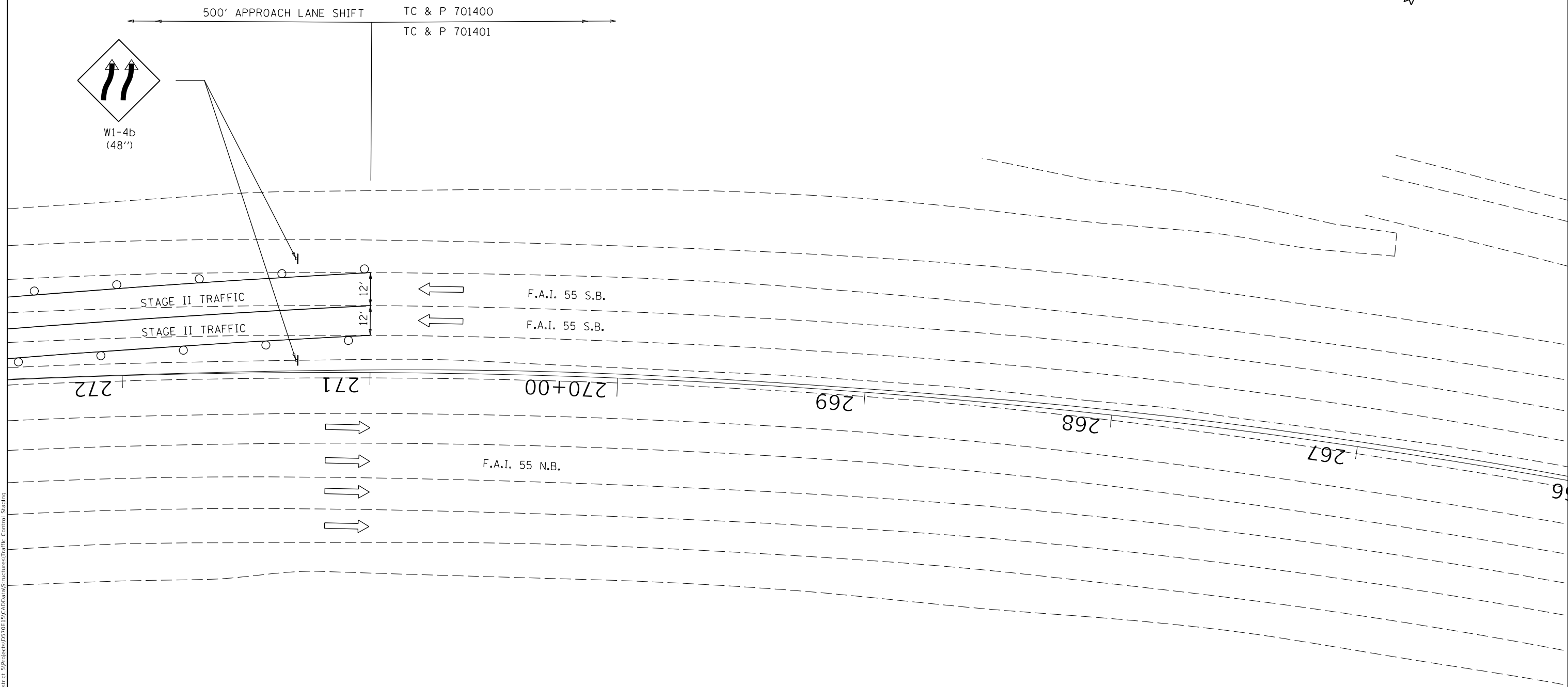
TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P 701402 (SPL))



500' APPROACH LANE SHIFT
 TC & P 701400
 TC & P 701401



W1-4b
(48'')



MODEL: s:\MODEL\MAME\ FILE: Mame: p:\pub\mcom\dot\illinois\p\p\DOT\Documents\DOT_Offices\Traffic\Projects\057021\057021\057021\Traffic_Control_Signing

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PLOT DATE = 1/8/2020		

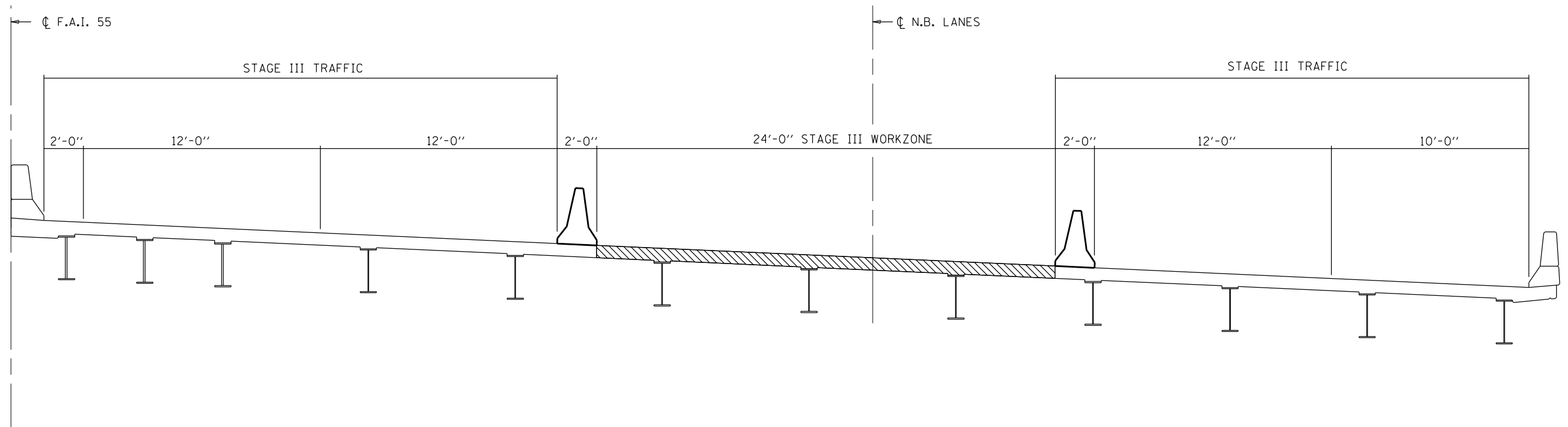
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
 S.N. 057-0022 & 057-0023 STAGE II TRAFFIC**

F.A.I. RTE. 55	SECTION (57-5)BJR	COUNTY MCLEAN	TOTAL SHEETS 46	SHEET NO. 31
CONTRACT NO. 70E15			ILLINOIS FED. AID PROJECT	

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

**STAGE III CONSTRUCTION DETAIL
S.N. 057-0022 N.B. (LOOKING NORTH)**



MODEL: \\MODELS\MAMES
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PLOT DATE = 1/8/2020	DATE - 120919	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL STAGING CROSS-SECTION
S.N. 057-0022 STAGE III TRAFFIC**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	32
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

PLAN NOTES:

ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL (SPECIAL) AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

FOR ADDITIONAL DETAILS ASSOCIATED WITH TRAFFIC CONTROL (SPECIAL) SEE HIGHWAY STANDARDS 701400, 701401, 701446.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANES. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE COVERED WITH BLACK OUT TAPE. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS WHERE DIRECTED. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD (SPECIAL).

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

*COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION 701402 (SPECIAL)

70400200 RELOCATE TEMPORARY CONCRETE BARRIER

		STATION	TO	STATION	LENGTH
	STAGE III				
	057-0022 NB	278+10.70		282+47.90	875.0
(TAPER)	057-0022 NB	282+47.90		285+10.40	525.0
				TOTAL =	1400.0

***TEMPORARY PAVEMENT MARKING TAPE - LINE 4"**

STAGE III				LT EDGE LINE	CTR LINE	RT EDGE LINE
STRUCTURE	STATION	TO	STATION	YELLOW	WHITE	WHITE
				FOOT	FOOT	FOOT
057-0022 NB	273+00.00		293+00.00	2,000.0	2,000.0	2,000.0
RAMP "E"	288+00.00		291+00.00	300.0	-	-
RAMP "E"	273+00.00		291+00.00	-	-	1,800.0
			TOTAL =	2,300.0	2,000.0	3,800.0

70600350 IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3

	STATION	EACH
STAGE III		
057-0022 NB	285+10.40	2.0
		TOTAL = 2.0

***PAVEMENT MARKING BLACKOUT TAPE**

STAGE III				
STRUCTURE	STATION	TO	STRUCTURE	FOOT
057-0022 NB	273+00.00		293+00.00	4000.0
RAMP "E"	273+00.00		291+00.00	1800.0
			TOTAL =	5,800.0
			USE =	5,800.0

***WORKZONE PAVEMENT MARKING REMOVAL**

STAGE III				LT EDGE LINE	CTR LINE	RT EDGE LINE
STRUCTURE	STATION	TO	STATION	YELLOW	WHITE	WHITE
				SQ FT	SQ FT	SQ FT
057-0022 NB	273+00.00		293+00.00	666.0	666.0	666.0
RAMP "E"	288+00.00		291+00.00	99.9	99.9	99.9
RAMP "E"	273+00.00		291+00.00	599.4	599.4	599.4
			TOTAL =	1,365.3	1,365.3	1,365.3
			USE =	1,979.0	7,979.0	1,979.0

BILL OF MATERIALS

ITEM	UNIT	TOTAL
REL TEMPORARY CONCRETE BARRIER	FOOT	1,400.0
IMPACT ATTENUATOR RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3	EACH	2.0

MODEL: \\MODELS\MARF5
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 OFFICE: \\OFFICE\DOT

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	DRAWN - JMS	REVISED -
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PLOT DATE = 1/8/2020	DATE - 120919	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 STAGE III TRAFFIC**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	33
			CONTRACT NO. 70E15	
			ILLINOIS FED. AID PROJECT	

PLAN NOTES:


ALL STAGING DETAILS SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL (SPECIAL) AND PAID FOR AT THE CONTRACT UNIT PRICE PER EACH LOCATION.

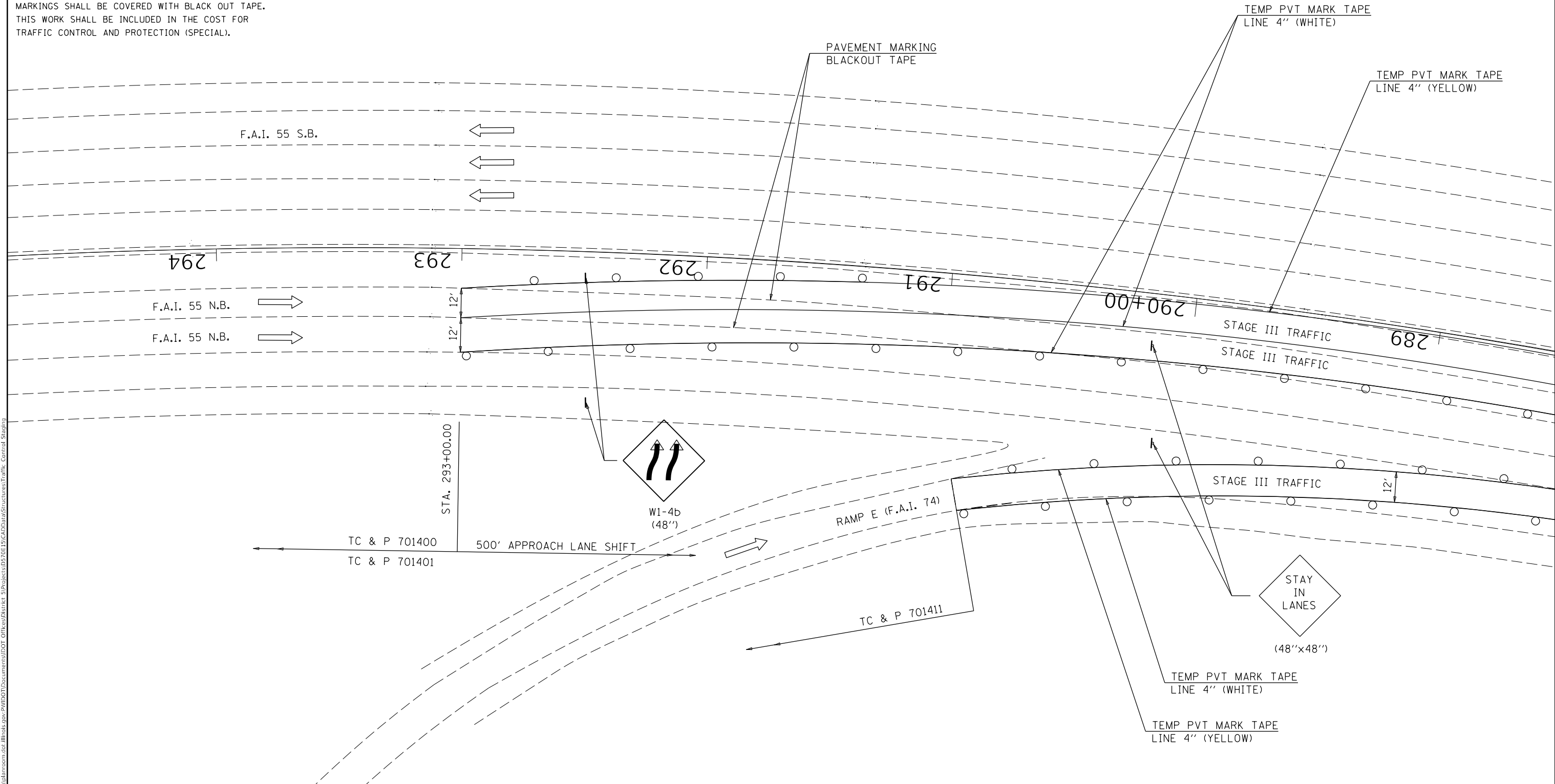
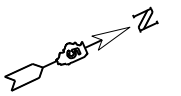
FOR ADDITIONAL DETAILS ASSOCIATED WITH TRAFFIC CONTROL (SPECIAL) SEE HIGHWAY STANDARDS 701400, 701401 & 701406 701428 & 701446.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF THE OPEN LANES. PAVEMENT MARKINGS THAT CONFLICT WITH STAGED TRAFFIC MARKINGS SHALL BE COVERED WITH BLACK OUT TAPE. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

REFLECTORS SHALL BE ATTACHED TO GUARDRAIL AND BARRIER WALL AT 25 FOOT CENTERS WHERE DIRECTED. COST INCLUDED WITH TRAFFIC CONTROL AND PROTECTION STANDARD (SPECIAL).

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

 TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P 701402 (SPL))



MODEL: I:\MODELS\MHMF5 FILE: MHMF5_Plan.dwg PLOT DATE: 1/8/2020 I:\Projects\057022\Final\Drawings\Traffic Control\StageIII

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PLOT DATE = 1/8/2020	DATE - 120919	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 STAGE III TRAFFIC**

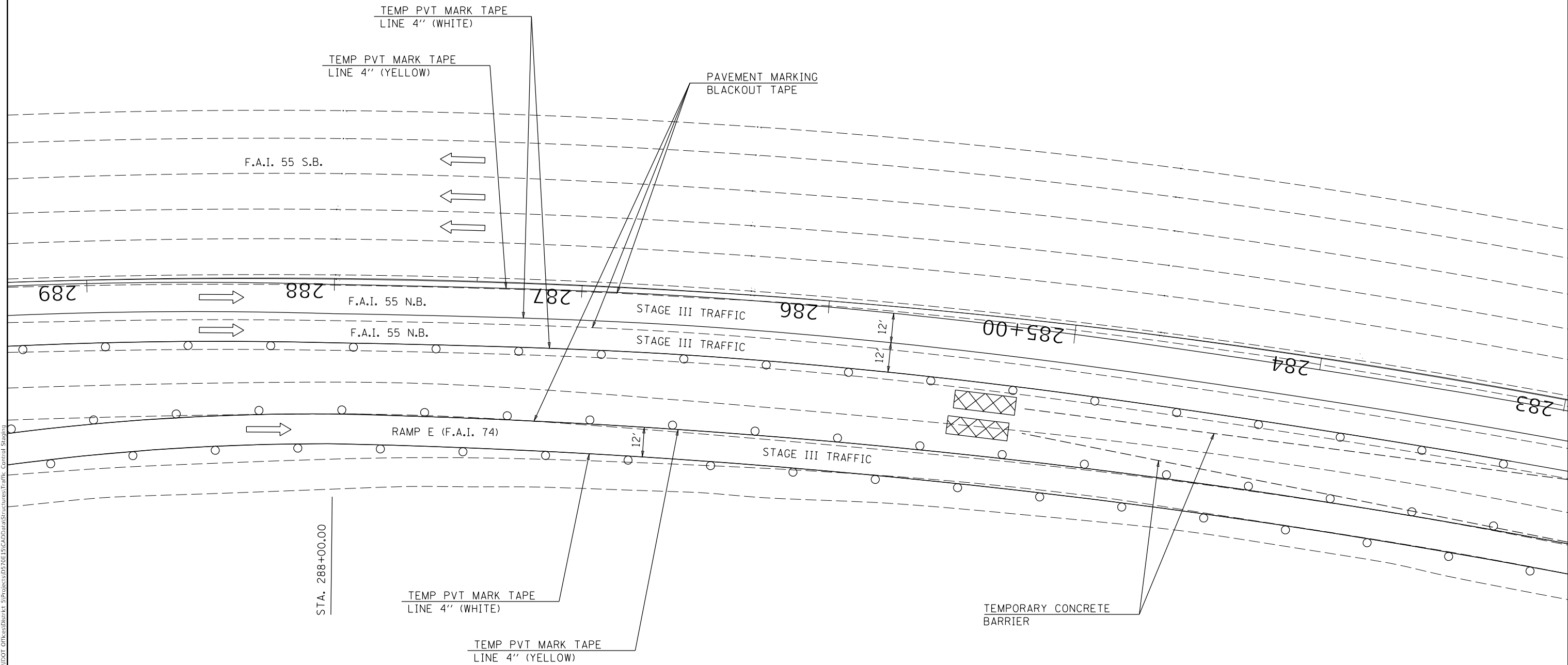
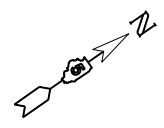
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CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET 3 OF 6 SHEETS STA. TO STA.

○ TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P 701402 (SPL))

--- TEMPORARY CONCRETE BARRIER

▣ IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3



MODEL: \\MODELS\MHMS
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PLOT DATE = 1/8/2020	DATE - 120919	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 STAGE III TRAFFIC**

SCALE: NONE SHEET 4 OF 6 SHEETS STA. TO STA.

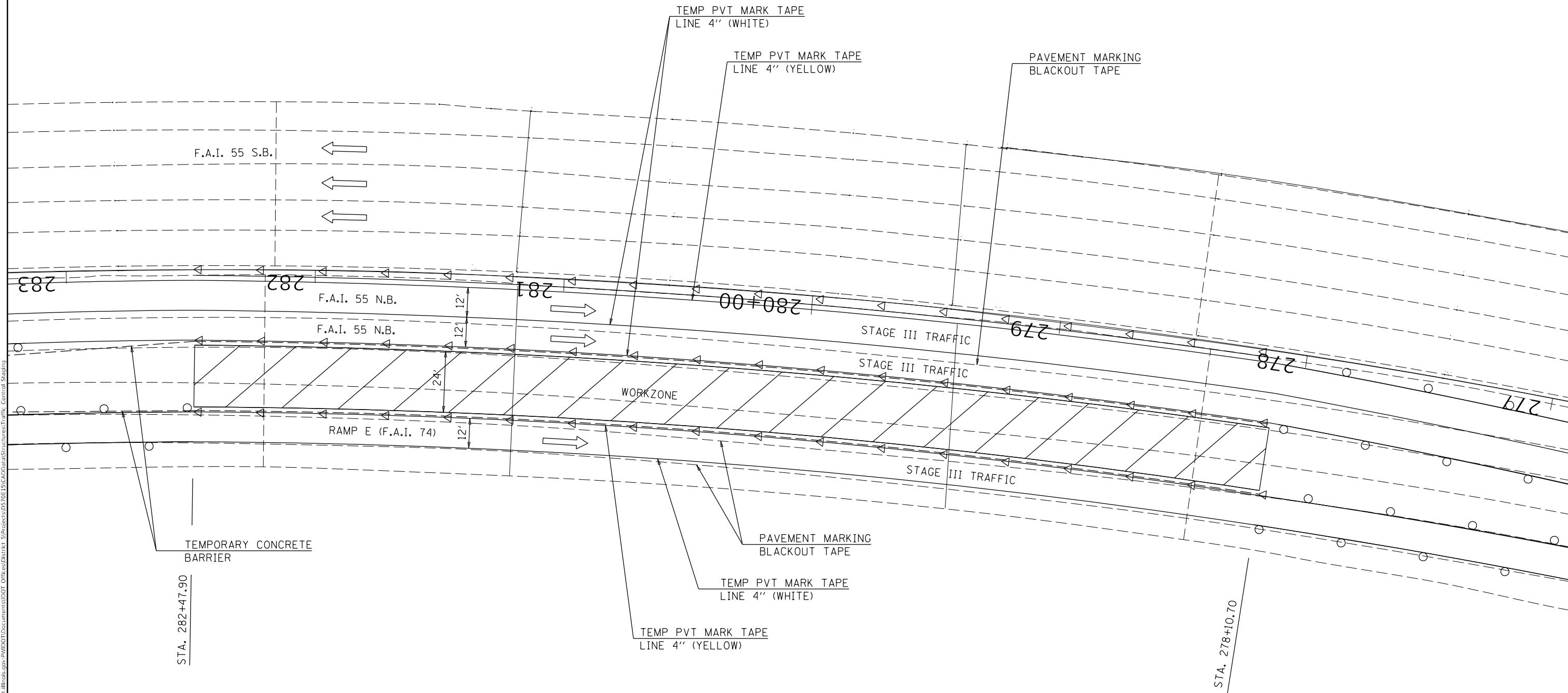
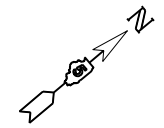
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	35
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

○ TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P 701402 (SPL))

--- TEMPORARY CONCRETE BARRIER

▣ IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3

◁ MONODIRECTIONAL GUARDRAIL/BARRIER WALL REFLECTOR



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PLOT DATE = 1/8/2020	DATE - 120919	REVISED -

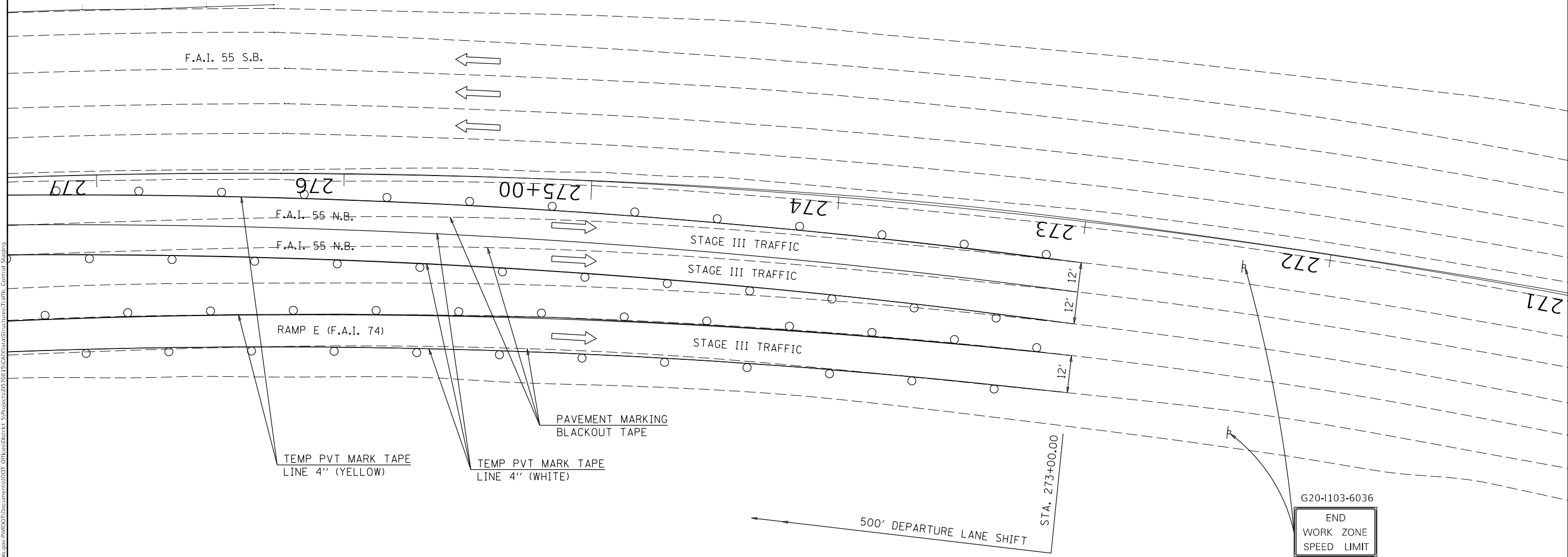
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 STAGE III TRAFFIC**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	36
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

TYPE II BARRICADES OR DRUMS WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS AT 50' CTS. (COST INCLUDED WITH TC&P 701402 (SPL))



G20-1103-6036
 END
 WORK ZONE
 SPEED LIMIT

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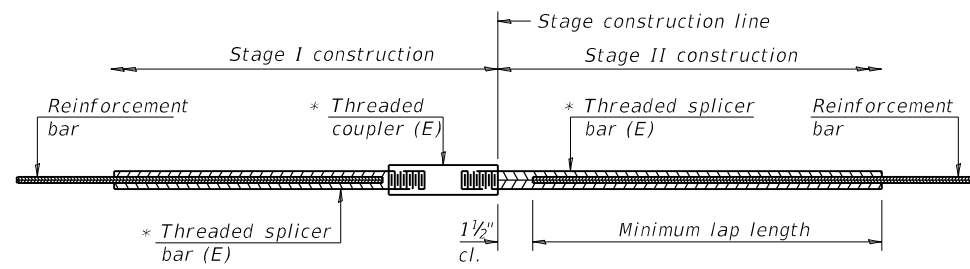
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PLOT DATE = 1/8/2020	DATE - 120919	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL & PROTECTION, STANDARD 701402 (SPECIAL)
S.N. 057-0022 STAGE III TRAFFIC

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	37
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

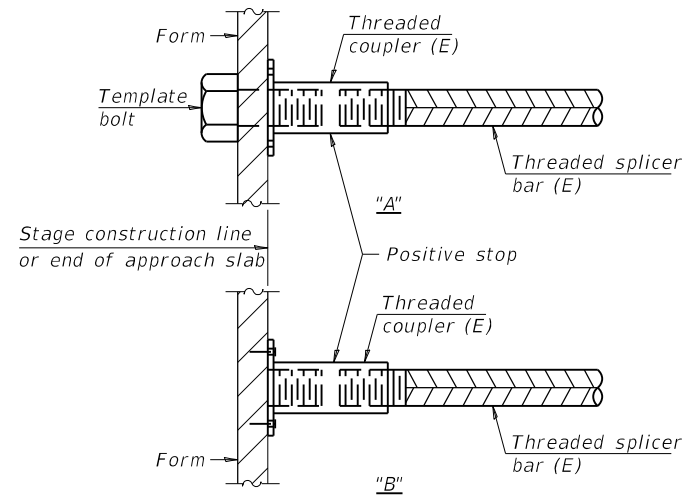


STANDARD BAR SPLICER ASSEMBLY

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

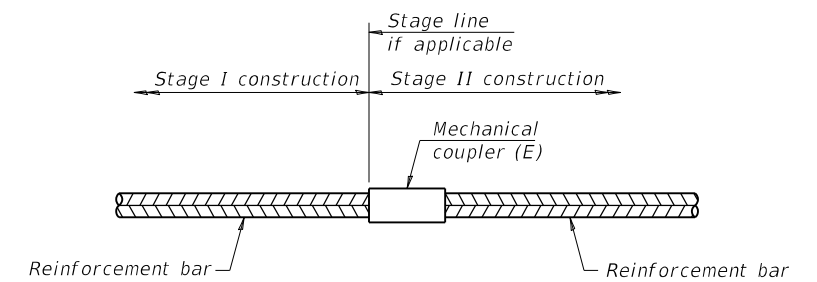
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Abut.	#6	24	4'-0"
Abut.	#6	12	4'-0"



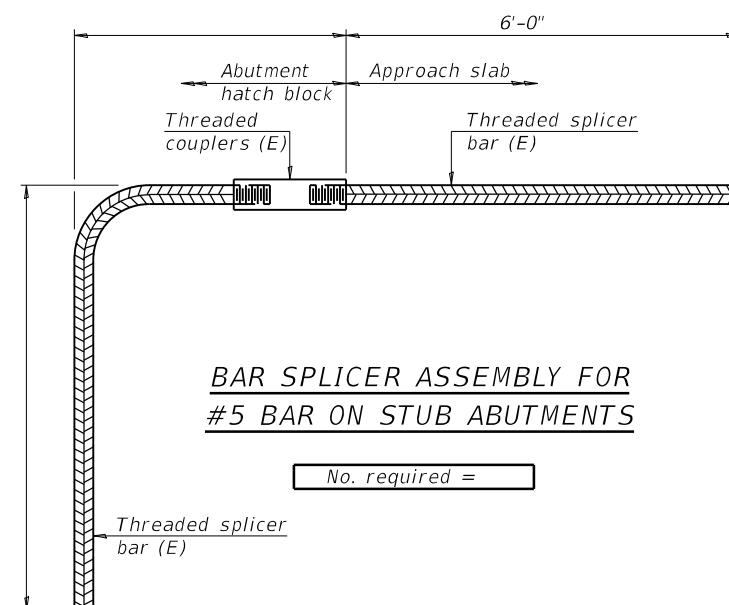
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

2-17-2017

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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 057-0022 (N.B.) & S.N. 057-0023 (S.B.)

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	16
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				

BENCH MARK DATA:

B.M. #23: West Sign Base, Northeast Bolt
Exit 164 sign, North Bound Lanes I-55.
Station 34+949, Elevation 257.553 m.

EXISTING STRUCTURES:

Station 35+007.000 F.A.I. 55/74 Interchange
4 span continuous composite steel stringer
structure constructed in 1989 on modified
substructures constructed in 1962 as F.A.I.
Rte. 55, Section 57-5HB, 5HF. Length
54,508m back to back of abutments. Roadway
widths are 20.726m N.B.L. and 17.069m S.B.L.
face to face of parapets. Substructures
consist of 6 reinforced concrete piers and
4 reinforced concrete abutments on concrete
piles.

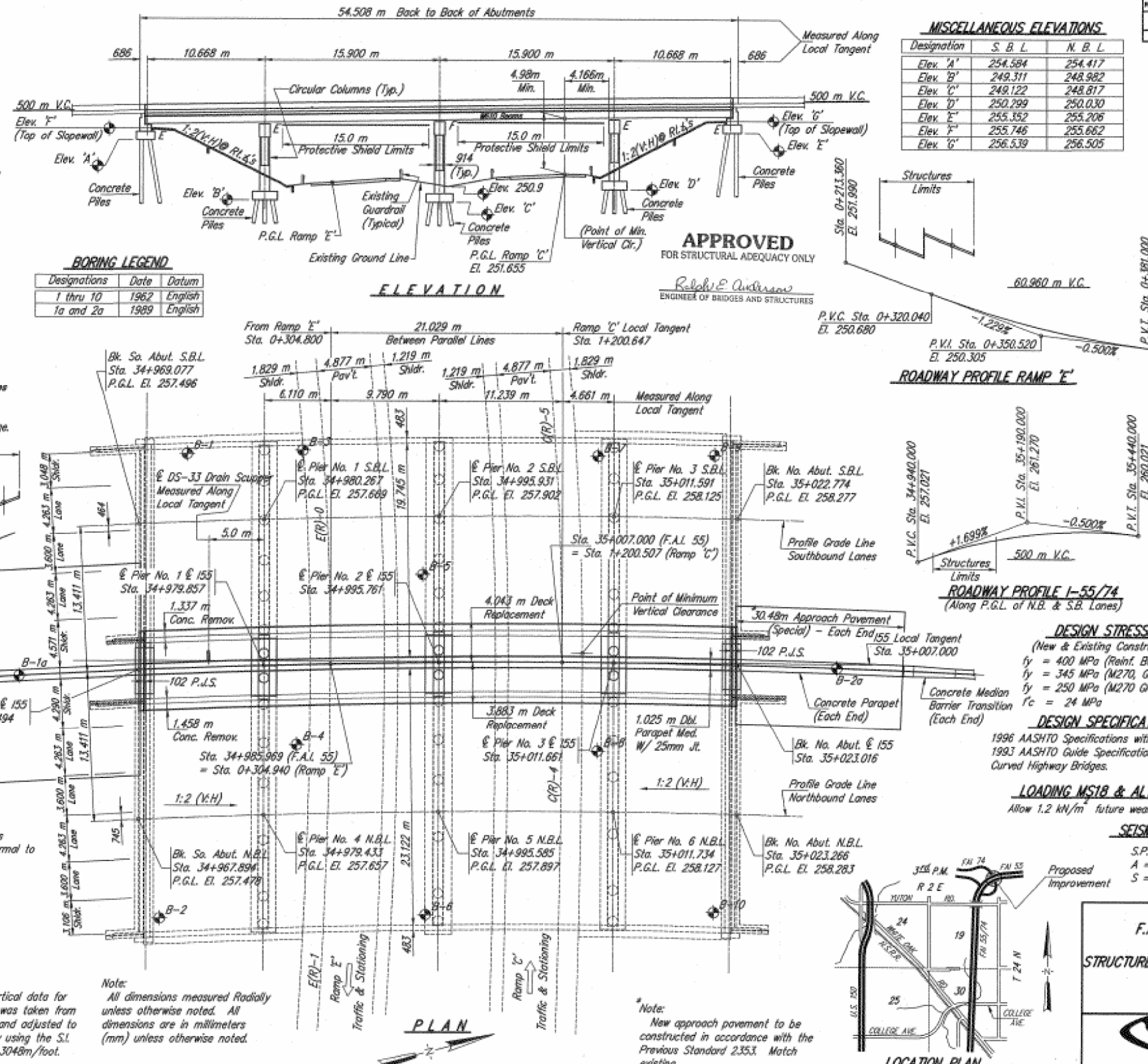
Structure Number 057-0022 (N.B.L.)
Structure Number 057-0023 (S.B.L.)

PROPOSED IMPROVEMENTS:

Existing structures are to be widened on the
median side. Existing median side parapets
and deck portions to be removed, replaced
and widened with two, four span continuous
composite steel stringers each structure.
Existing substructures to be widened along
with special approach pavements. The structures
shall be separated by a 25mm isolator joint.
Traffic shall be controlled by the typical
Stage 1 Narrow Work Zone Template. No salvage.

BORING LEGEND

Designations	Date	Datum
1 thru 10	1962	English
1a and 2a	1989	English



MISCELLANEOUS ELEVATIONS:

Designation	S. B. L.	N. B. L.
Elev. 'A'	254.584	254.417
Elev. 'B'	249.311	248.982
Elev. 'C'	249.122	248.817
Elev. 'D'	250.799	250.030
Elev. 'E'	255.352	255.206
Elev. 'F'	255.746	255.662
Elev. 'G'	256.539	256.505

155/74 CURVE DATA

P.I. = 35+233.754
Δ = 87°-59'-52"
R = 873.190 m
T = 843.198 m
L = 1341.091 m
E = 340.665 m
S.E. = 0.045 m/m
P.C. = 34+390.556
P.T. = 35+731.647
S.E. Attainment.
Sta. 34+308.000 to Sta. 34+433.000
Sta. 35+690.000 to Sta. 35+815.000

CURVE DATA E(R)-0

(Existing Ramp 'E')
P.I. = 0+230.441
Δ = 30°-25'-00"
R = 287.076 m
T = 78.041 m
L = 152.400 m
E = 10.418 m
S.E. = 0.080 m/m
P.C. = 0+152.400
P.T. = 0+304.800

CURVE DATA E(R)-1

(Existing Ramp 'E')
P.I. = 0+435.538
Δ = 29°-45'-37"
R = 492.033 m
T = 130.738 m
L = 255.569 m
E = 17.072 m
S.E. = 0.044 m/m
P.C. = 0+304.800
P.T. = 0+560.369

DESIGN STRESSES

(New & Existing Construction)
f_y = 400 MPa (Reinf. Bars)
f_y = 345 MPa (M270, Grade 345)
f_y = 250 MPa (M270 Grade 250)
f_c = 24 MPa

DESIGN SPECIFICATIONS

1996 AASHTO Specifications with 1997 Interim.
1993 AASHTO Guide Specification for Horizontally
Curved Highway Bridges.

LOADING MS18 & ALTERNATE

Allow 1.2 kN/m² future wearing surface

SEISMIC DATA

S.P.C. A
A = .044 g
S = 1.0
Corporate License Number 184-001-084

GENERAL PLAN
F.A.I. 55 over F.A.I. 74 INTERCHANGE
SECTION 57-5HBR
STRUCTURE NO. 057-0022 (N.B.) & 057-0023 (S.B.)
MCLEAN COUNTY
STATION 35+007.000



94S2063
03/24/00

PLAN

LOCATION PLAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS-BUILT PLANS (INFORMATION ONLY)

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DRAWN	-	-
CHECKED	-	-
DATE	-	-

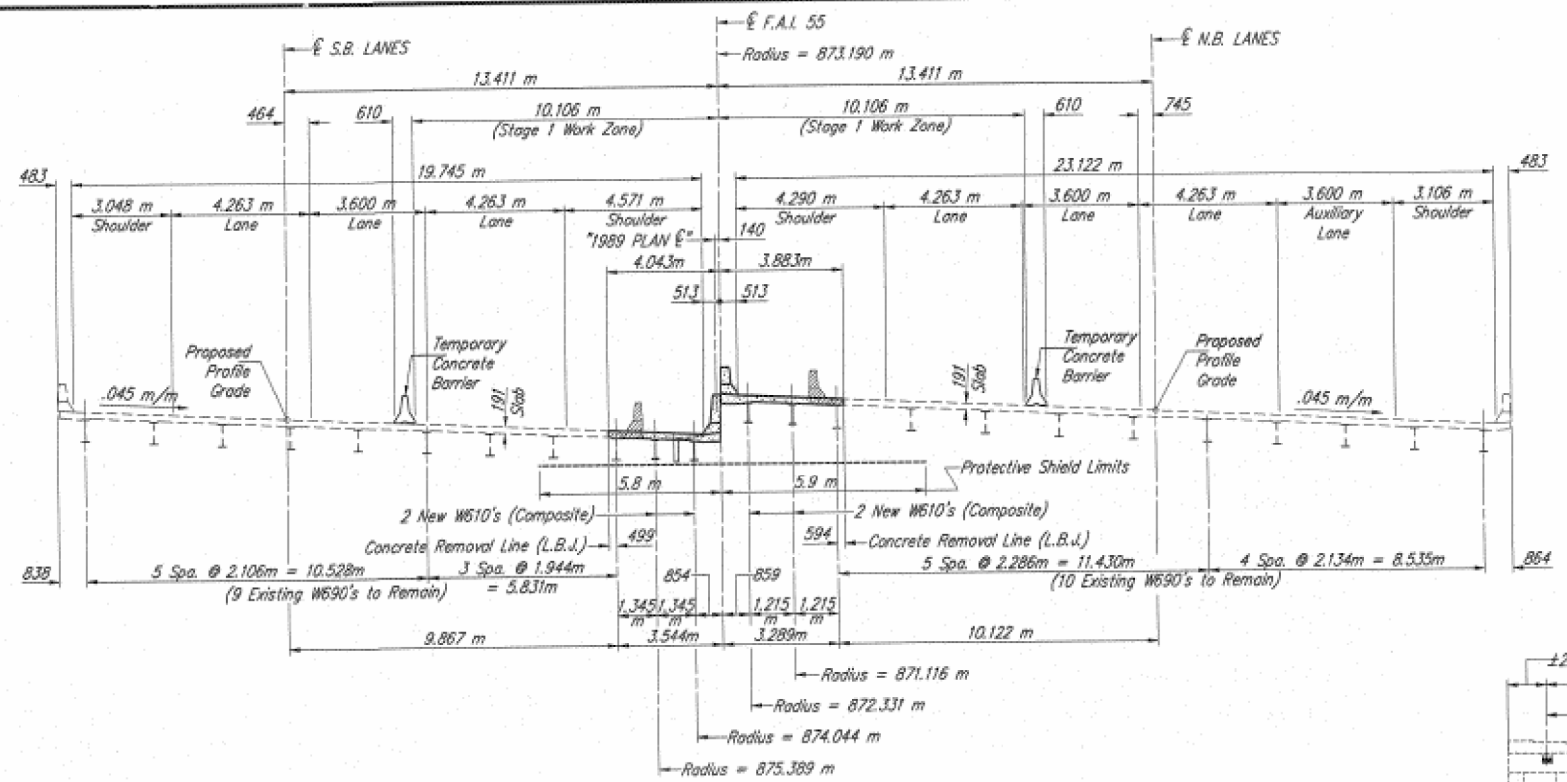
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)HBR	MCLEAN	46	39

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT CONTRACT NO. 70E15

MODEL: MODEL.MAKES FILE: MAKE: PROJECT: PROJECT.DAT OFFICE: OFFICE.DAT STRUCTURES: STRUCTURES.DAT

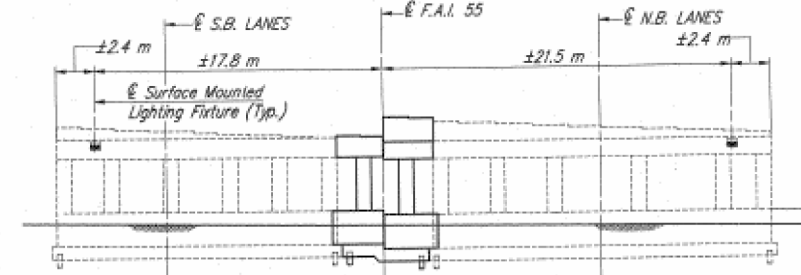
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-55	57-SHRP	McLean	632	445
FED. ROAD DIST. NO. 7			ILLINOIS	PROJECT

Sheet 3 of 22



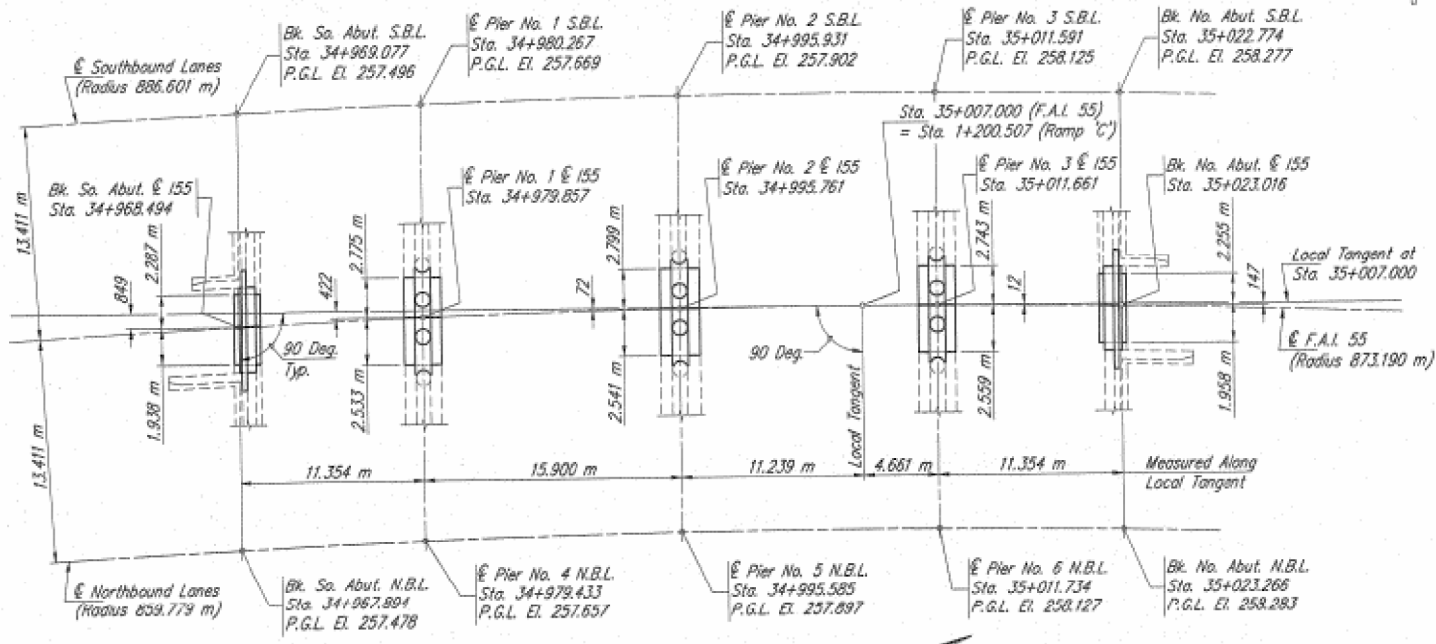
DECK CROSS SECTION - SHOWING TRAFFIC CONTROL
(All Dimensions are measured radially)
(Looking North)

- NOTES**
- For Temporary Concrete Barrier Details see Sheet 4 of 22. For quantity, see Roadway Plans.
 - Hatched areas indicate Concrete Removal.
 - See "Maintenance of Traffic Typical Sections" sheet for additional information.
 - Existing reinforcement extending into new concrete shall be cleaned, straightened, and incorporated into new construction. Cost is included with "Concrete Removal".



PIER MOUNTED LIGHTING - LOCATIONS
(See Roadway Lighting Plans)

- Pier No. 1 - East Face
- Pier No. 2 - Each Face
- Pier No. 3 - West Face



FOOTING LAYOUT

Corporate License Number 184-001-084

FOOTING LAYOUT and CONSTRUCTION STAGING
F.A.I. 55 over F.A.I. 74 INTERCHANGE
SECTION 57-SHRP
STRUCTURE NO. 057-0022 (N.B.) & 057-0023 (S.B.)
McLEAN COUNTY
STATION 35+007.000

Hanson Professional Services Inc.

9452063
03/24/00

I:\TECH\10\28\1001\DRAWINGS\PROJECTS\70E15\CADD\Structures\70E15-Sub-Structure\Plans.dwg
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PLOT DATE = 12/17/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF POLYMER CONCRETE AT TRANSVERSE EXPANSION JOINTS

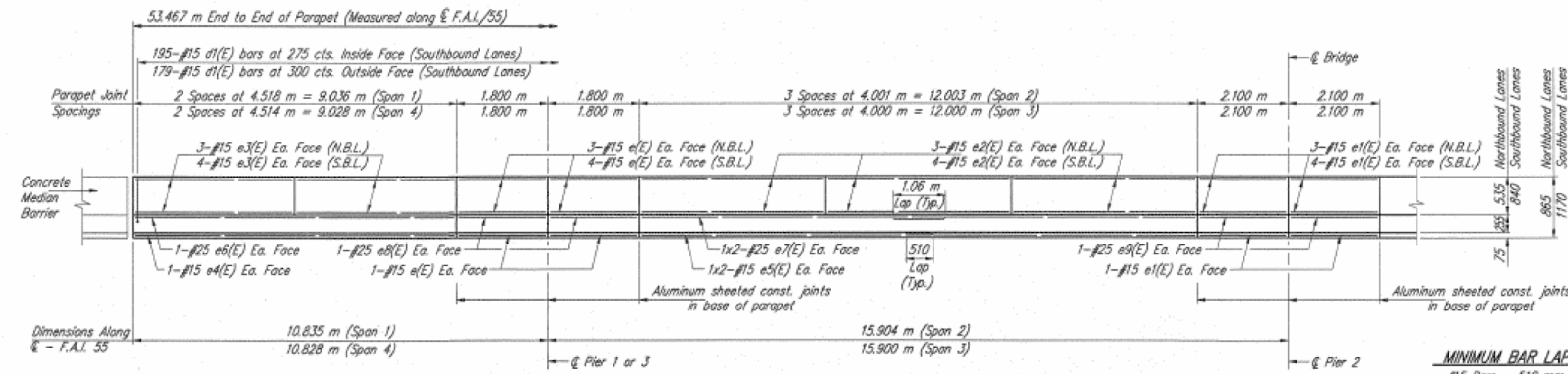
SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-SIBJR)	MCLEAN	46	40
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 70E15

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-55	57-5HBR	McLean	632	450
FED. ROAD DIST. NO. 7		KLMRES	PROJECT	

Sheet 8 of 22

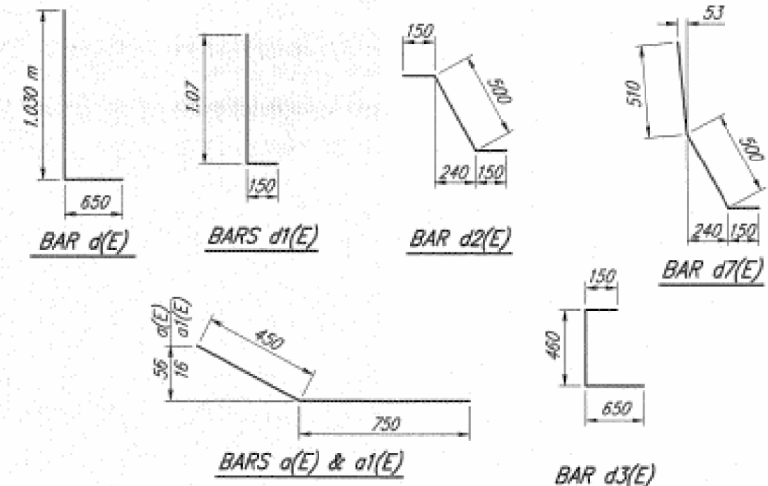
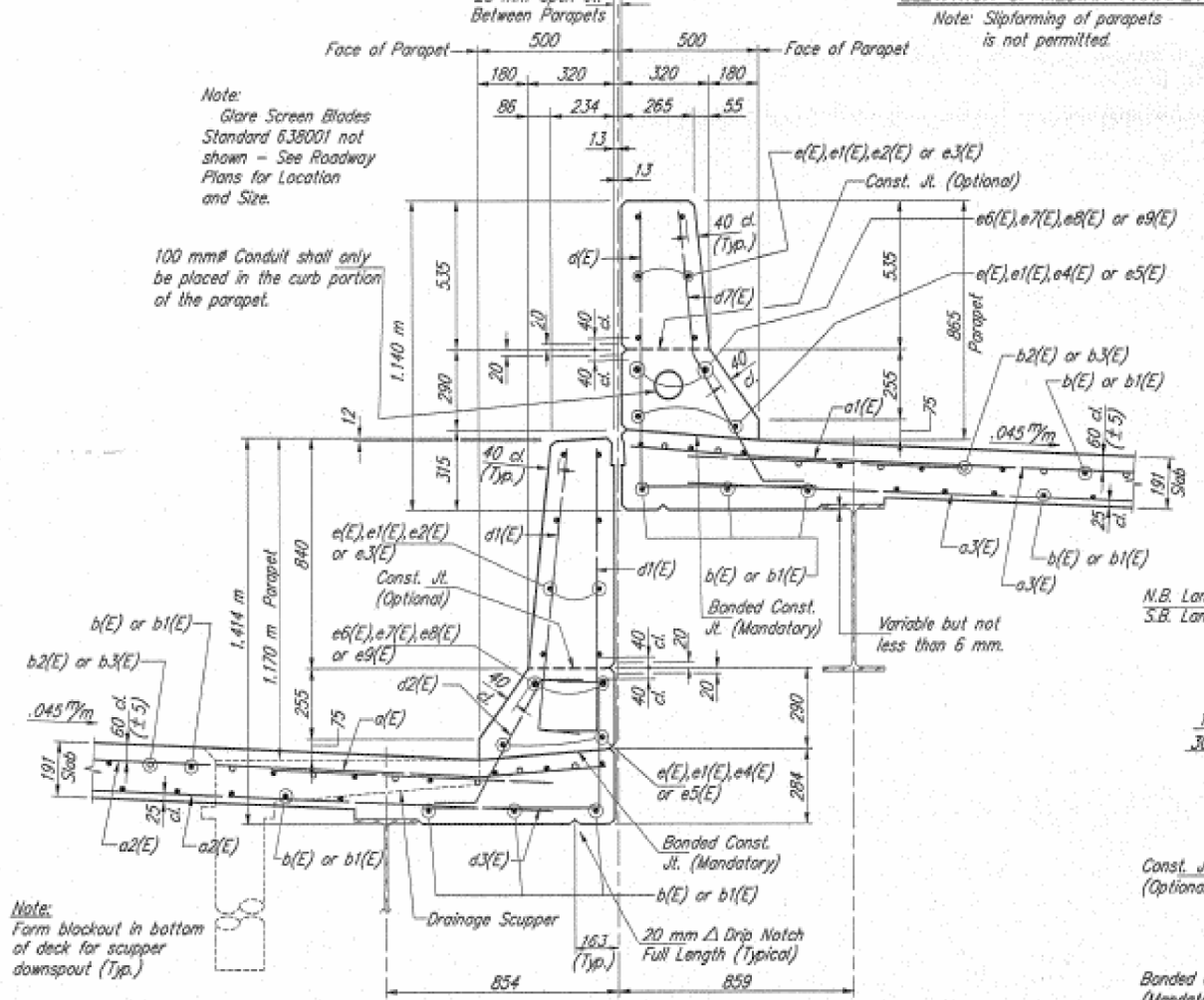


**SUPERSTRUCTURE BILL OF MATERIAL
NORTHBOUND & SOUTHBOUND**

Bar	No.	Size	Length (m)	Shape
a(E)	163	#20	1.20	—
a1(E)	176	#20	1.20	—
a2(E)	558	#15	3.78	—
a3(E)	589	#15	3.62	—
a4(E)	8	#15	0.60	—
b(E)	384	#15	8.80	—
b1(E)	64	#15	4.51	—
b2(E)	54	#20	7.99	—
b3(E)	27	#20	10.00	—
d(E)	179	#15	1.68	—
d1(E)	374	#15	1.22	—
d2(E)	195	#15	0.80	—
d3(E)	179	#15	1.26	—
d7(E)	195	#15	1.16	—
e(E)	72	#15	1.70	—
e1(E)	36	#15	2.00	—
e2(E)	84	#15	3.90	—
e3(E)	56	#15	4.42	—
e4(E)	8	#15	8.94	—
e5(E)	16	#15	6.21	—
e6(E)	8	#25	8.94	—
e7(E)	16	#25	6.48	—
e8(E)	16	#25	1.70	—
e9(E)	8	#25	2.00	—
Concrete Removal		m ³	56.5	
Concrete Superstructure		m ³	123.6	
Reinforcement Bars Epoxy Coated		kg	19570	

MINIMUM BAR LAPS
#15 Bars = 510 mm
#25 Bars = 1.060 m

ELEVATION OF MEDIAN PARAPET



**SECTION THRU MEDIAN PARAPETS
(Looking Upstation)**

PARAPET JOINT DETAILS

- NOTES:**
1. Reinforcement bars designated (E) shall be epoxy coated.
 2. Bars indicated thus: 15 x 6 - #15 etc. indicates 15 lines of bars with 6 lengths per line.
 3. All dimensions are in millimeters (mm) except as noted.
 4. See Sheet 1 of 22 for Drainage Scupper locations.
 5. See Sheets 14 & 15 of 22 for Drainage Scupper Details.
 6. Cut longitudinal reinforcement to clear drainage scuppers.
 7. See Sheets 7 of 22 for Median Joint Detail.

Corporate License Number 184-001-084

SUPERSTRUCTURE DETAILS
F.A.I. 55 over F.A.I. 74 INTERCHANGE
SECTION 57-5HBR
STRUCTURE NO. 057-0022 (N.B.) & 057-0023 (S.B.)
McLEAN COUNTY
STATION .35+007.000

HANSON
Hanson Professional Services Inc.

DATE: 10/11/00

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PLOT SCALE = 40.0000 "/in.	DRAWN -	REVISED -
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF POLYMER CONCRETE AT TRANSVERSE
EXPANSION JOINTS

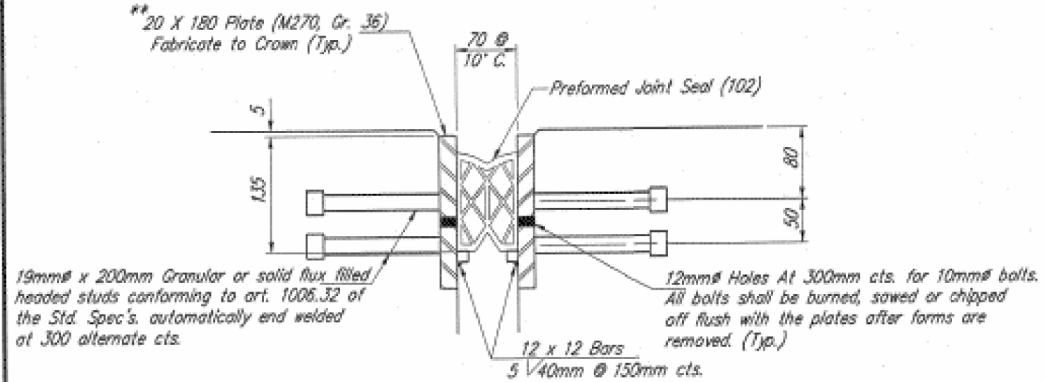
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BR	MCLEAN	46	41
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70E15	

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-55	57-SHBR	McLean	632	453
FED. ROAD DIST. NO. 7	ALINDS	PROJECT		

Sheet 11 of 22

Note: The existing PJS shall be banded to the new PJS in order to provide a continuous joint seal across the bridge width.



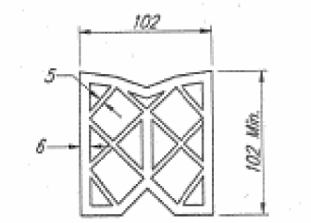
19mm ϕ x 200mm Granular or solid flux filled headed studs conforming to art. 1006.32 of the Std. Spec's, automatically end welded at 300 alternate cts.

12mm ϕ Holes At 300mm cts. for 10mm ϕ bolts. All bolts shall be burned, sawed or chipped off flush with the plates after forms are removed. (Typ.)

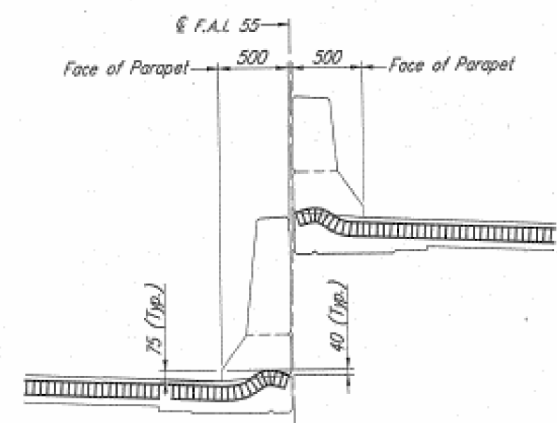
12 x 12 Bars
5 #40mm @ 150mm cts.

DETAIL A

** Furnish in segments of 6 mm maximum length. Maximum space between installed segments shall be 5 mm. Seal space with Silicone Sealant suitable for Structural Steel. After fabrication all surfaces of the steel plates shall be given one shop coat of paint specified for Structural Steel. No field painting required.

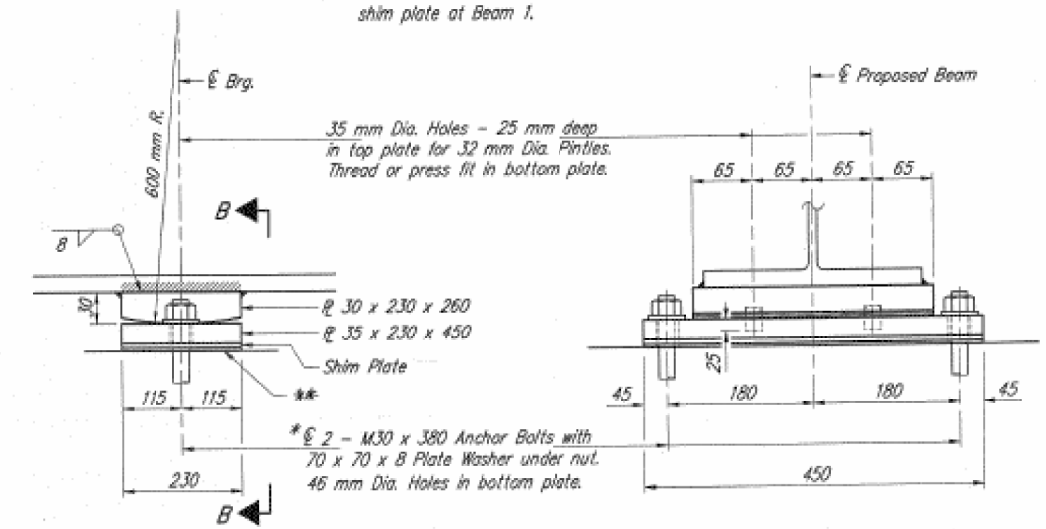


PREFORMED JOINT SEAL (102)



TYPICAL END TREATMENT

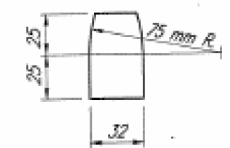
Note: Provide an additional 10 mm shim plate at Beam 1.



ELEVATION

SECTION B-B

FIXED BEARING AT PIER 2
(PROPOSED BEAMS "1" THRU "4")
No. Required = 2 (Northbound)
No. Required = 2 (Southbound)



PINTLE

* Notes: Anchor bolts at fixed bearings may be built into the masonry.
See Anchor Bolt Details Sheet for anchor bolt installation.
All dimensions are in millimeters (mm) except as noted.

** 3mm elastomeric neoprene leveling pad according to Article 1052.02 of the Standard Specifications. Cost included with Furnishing & Erecting Structural Steel.

Corporate License Number 184-001-084

EXPANSION JOINT & FIXED BEARING DETAILS
F.A.I. 55 over F.A.I. 74 INTERCHANGE
SECTION 57-5HBR
STRUCTURE NO. 057-0022 (N.B.) & 057-0023 (S.B.)
McLEAN COUNTY
STATION 35+007.000

HANSON
Hanson Professional Services Inc.

94S206J
03/24/00

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	DRAWN -	REVISED -
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PLOT DATE = 12/17/2019	DATE -	REVISED -

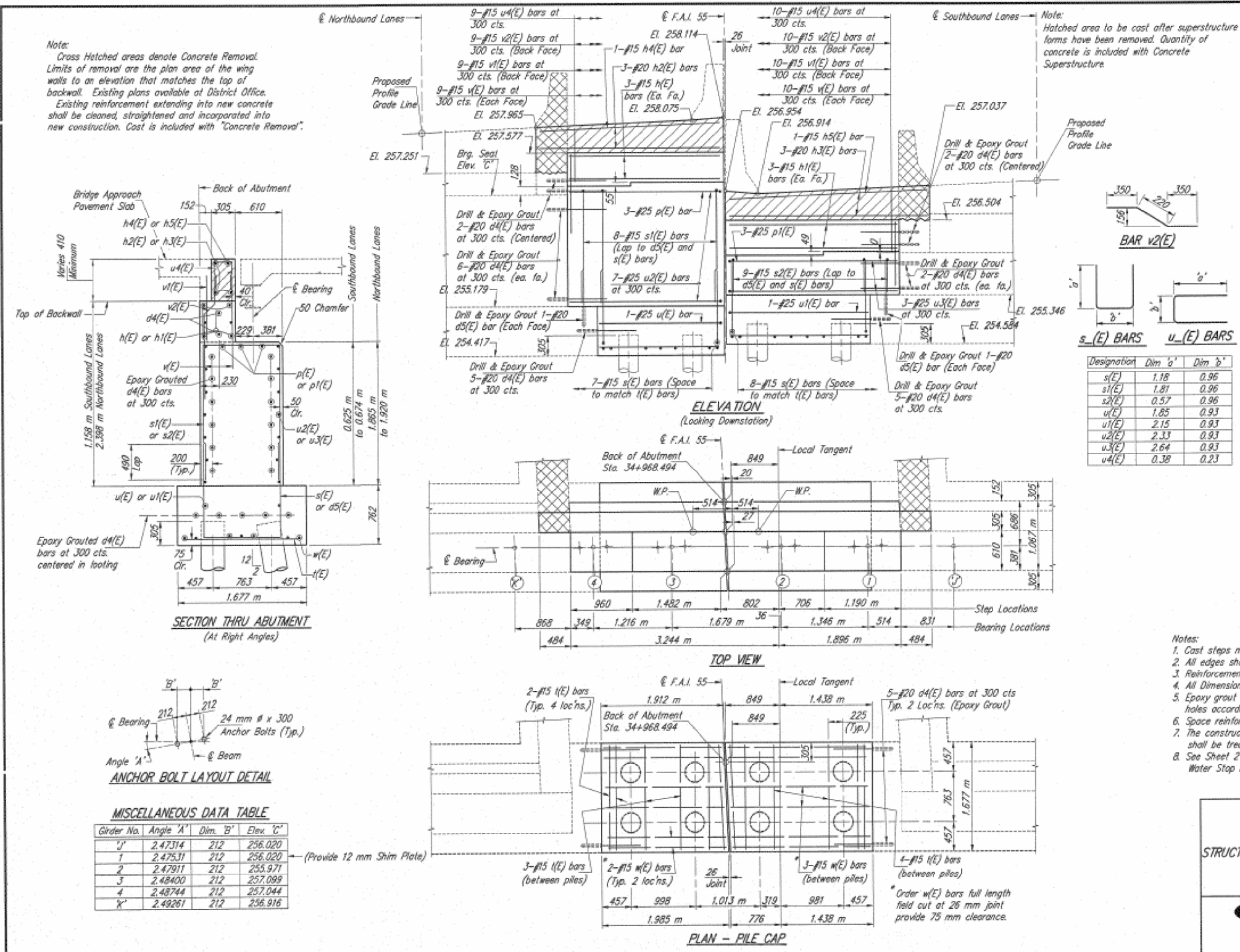
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF POLYMER CONCRETE AT TRANSVERSE EXPANSION JOINTS			
SCALE: NONE	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5HBR)	MCLEAN	46	42
			CONTRACT NO. 70E15	
ILLINOIS FED. AID PROJECT				

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Note:
 Cross Hatched areas denote Concrete Removal. Limits of removal are the plan area of the wing walls to an elevation that matches the top of backwall. Existing plans available at District Office. Existing reinforcement extending into new concrete shall be cleaned, straightened and incorporated into new construction. Cost is included with "Concrete Removal".

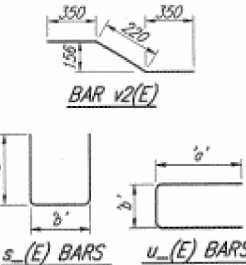
Note:
 Hatched area to be cast after superstructure forms have been removed. Quantity of concrete is included with Concrete Superstructure.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1-55	57-SHBR	McLean	432	458
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

Sheet 16 of 22

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
d4(E)	30	#20	0.90	—
d5(E)	4	#20	0.80	—
h(E)	6	#15	2.30	—
h1(E)	6	#15	2.63	—
h2(E)	3	#20	2.78	—
h3(E)	3	#20	3.11	—
h4(E)	1	#15	2.78	—
h5(E)	1	#15	3.11	—
p(E)	3	#25	2.30	—
p1(E)	3	#25	2.63	—
s(E)	15	#15	3.32	U
s1(E)	8	#15	4.58	U
s2(E)	9	#15	2.10	U
t(E)	15	#15	1.53	—
u(E)	1	#25	4.63	—
u1(E)	1	#25	5.23	—
u2(E)	7	#25	5.59	—
u3(E)	3	#25	6.21	—
u4(E)	19	#15	0.99	—
v(E)	38	#15	1.12	—
v1(E)	19	#15	0.70	—
v2(E)	19	#15	0.92	—
w(E)	7	#15	4.00	—
Concrete Removal		m ³	4.9	
Reinforcement Bars, Epoxy Coated		kg	880	
Concrete Structures		m ³	13.3	
Structure Excavation		m ³	15	
Furn. Concrete Piles		m	44.0	
Driving Concrete Piles		m	44.0	



Designation	Dim 'a'	Dim 'b'
s(E)	1.18	0.96
s1(E)	1.81	0.96
s2(E)	0.57	0.96
u(E)	1.85	0.93
u1(E)	2.15	0.93
u2(E)	2.33	0.93
u3(E)	2.64	0.93
u4(E)	0.38	0.23

MISCELLANEOUS DATA TABLE

Girder No.	Angle 'A'	Dim. 'B'	Elev. 'C'
J	2.47314	212	256.020
1	2.47531	212	256.020
2	2.47911	212	255.977
3	2.48400	212	257.089
4	2.48744	212	257.044
K	2.49261	212	256.916

(Provide 12 mm Shim Plate)

- Notes:**
- Cast steps monolithically with cap.
 - All edges shall have standard 20 mm chamfers except as noted.
 - Reinforcement bars designated (E) shall be Epoxy Coated.
 - All Dimensions are in millimeters (mm) except as noted.
 - Epoxy grout d4(E) & d5(E) bars in 230 mm Min. drilled holes according to Section 584 of the std. spec.
 - Space reinforcement in cap to miss anchor bolts.
 - The construction joint between proposed abutment and existing shall be treated as a bonded construction joint.
 - See Sheet 2 of 22 for 25 mm Premolded Joint Seal and Water Stop between S.B. & N.B. Abutments.

Corporate License Number 184-001-084

SOUTH ABUTMENT
 F.A.I. 55 over F.A.I. 74 INTERCHANGE
 SECTION 57-SHBR
 STRUCTURE NO. 057-0022 (N.B.) & 057-0023 (S.B.)
 McLEAN COUNTY
 STATION 35+007.000

HANSON
 Hanson Professional Services Inc.

9452063
 03/24/00

USER NAME = sherejm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/17/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETAIL OF POLYMER CONCRETE AT TRANSVERSE EXPANSION JOINTS			
SCALE: NONE	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-SHBR)	MCLEAN	46	43
				CONTRACT NO. 70E15
				ILLINOIS FED. AID PROJECT

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-55	57-SHBR	McLean	432	459
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT		

Sheet 17 of 22

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
d4(E)	30	#20	0.90	—
d5(E)	4	#20	0.80	—
h(E)	6	#15	2.30	—
h1(E)	6	#15	2.63	—
h2(E)	3	#20	2.78	—
h3(E)	3	#20	3.11	—
h4(E)	1	#15	2.78	—
h5(E)	1	#15	3.11	—
p(E)	3	#25	2.30	—
p1(E)	3	#25	2.63	—
s(E)	15	#15	3.32	U
s1(E)	8	#15	4.58	U
s2(E)	9	#15	2.10	U
t(E)	15	#15	1.53	—
u(E)	1	#25	4.63	—
u1(E)	1	#25	5.23	—
u2(E)	7	#25	5.59	—
u3(E)	3	#25	6.21	—
u4(E)	19	#15	0.89	—
v(E)	38	#15	1.12	—
v1(E)	19	#15	0.70	—
v2(E)	19	#15	0.92	—
w(E)	7	#15	4.00	—
Concrete Removal		m ³	4.8	
Reinforcement Bars, Epoxy Coated		kg	880	
Concrete Structures		m ³	13.3	
Structure Excavation		m ³	15	
Firm Concrete Piles		m	44.0	
Driving Concrete Piles		m	44.0	

PILE DATA

Type: Concrete Piles
Capacity: 223 kN
Est. Length: 5.5 m
Number Required: 8

- Notes:
- Cast steps monolithically with cap.
 - All edges shall have standard 20 mm chamfers except as noted.
 - Reinforcement bars designated (E) shall be Epoxy Coated.
 - All Dimensions are in millimeters (mm) except as noted.
 - Epoxy grout d4(E) & d5(E) bars in 230 mm Min. drilled holes according to Section 584 of the std. spec.
 - Space reinforcement in cap to miss anchor bolts.
 - The construction joint between proposed abutment and existing shall be treated as a bonded construction joint.
 - See Sheet 2 of 22 for 25 mm Premolded Joint Seal and Water Stop between S.B. & N.B. Abutments.

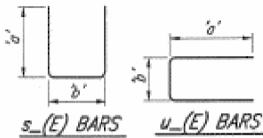
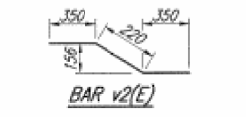
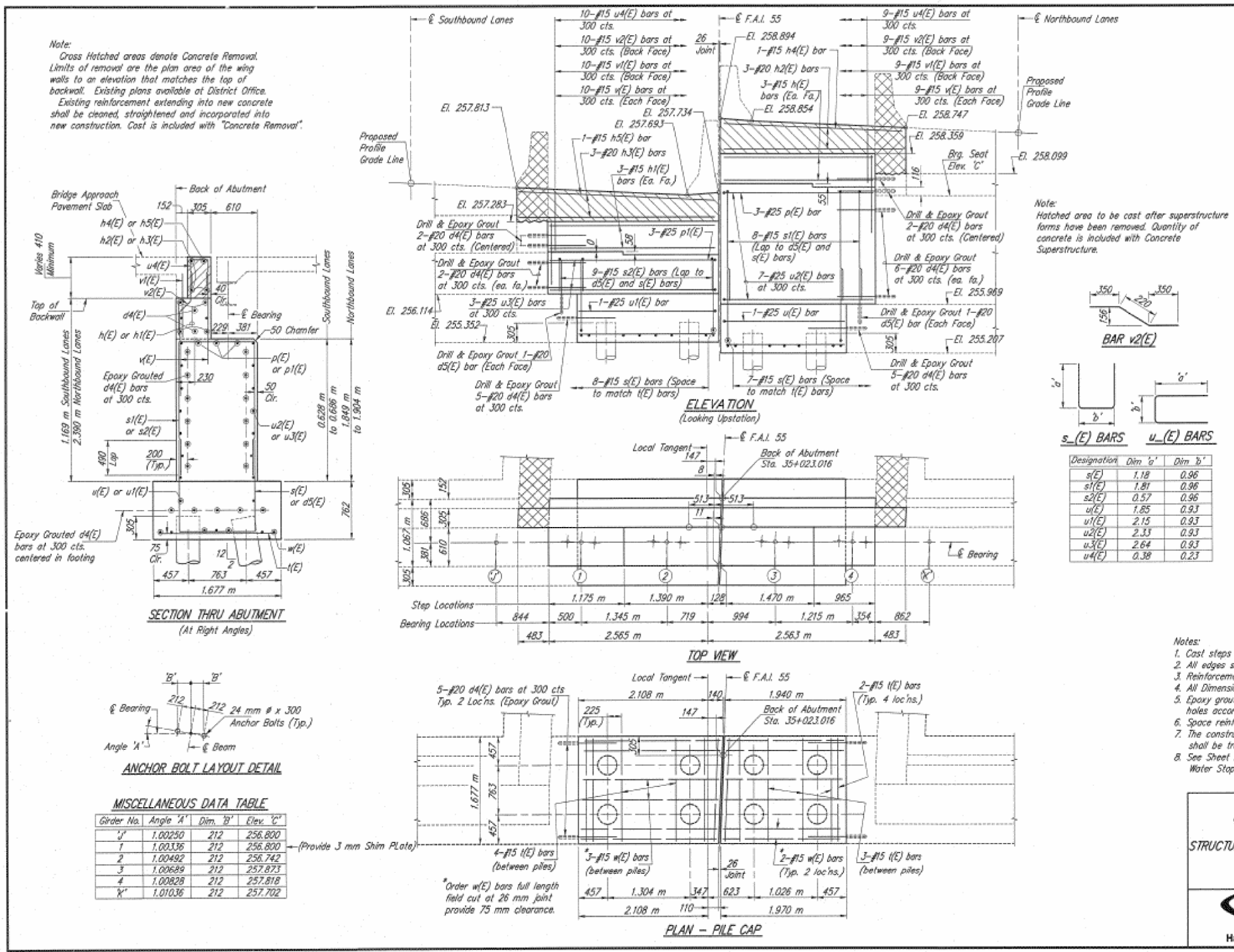
Corporate License Number 184-001-084

NORTH ABUTMENT
F.A.I. 55 over F.A.I. 74 INTERCHANGE
SECTION 57-SHBR
STRUCTURE NO. 057-0022 (N.B.) & 057-0023 (S.B.)
McLEAN COUNTY
STATION 35+007.000



APP NO. 94S2063
DATE 03/24/00
Hanson Professional Services Inc.

Note:
Cross Hatched areas denote Concrete Removal.
Limits of removal are the plan area of the wing walls to an elevation that matches the top of backwall. Existing plans available at District Office.
Existing reinforcement extending into new concrete shall be cleaned, straightened and incorporated into new construction. Cost is included with "Concrete Removal".



Designation	Dim 'a'	Dim 'b'
s(E)	1.18	0.96
s1(E)	1.81	0.96
s2(E)	0.57	0.96
u(E)	1.85	0.93
u1(E)	2.15	0.93
u2(E)	2.33	0.93
u3(E)	2.64	0.93
u4(E)	0.38	0.23

MISCELLANEOUS DATA TABLE

Girder No.	Angle 'A'	Dim 'B'	Elev. 'C'
1	1.00250	212	256.800
2	1.00336	212	256.800
3	1.00492	212	256.742
4	1.00689	212	257.873
5	1.00828	212	257.818
6	1.01036	212	257.702

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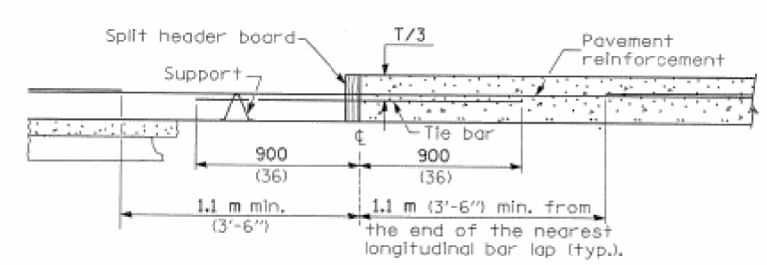
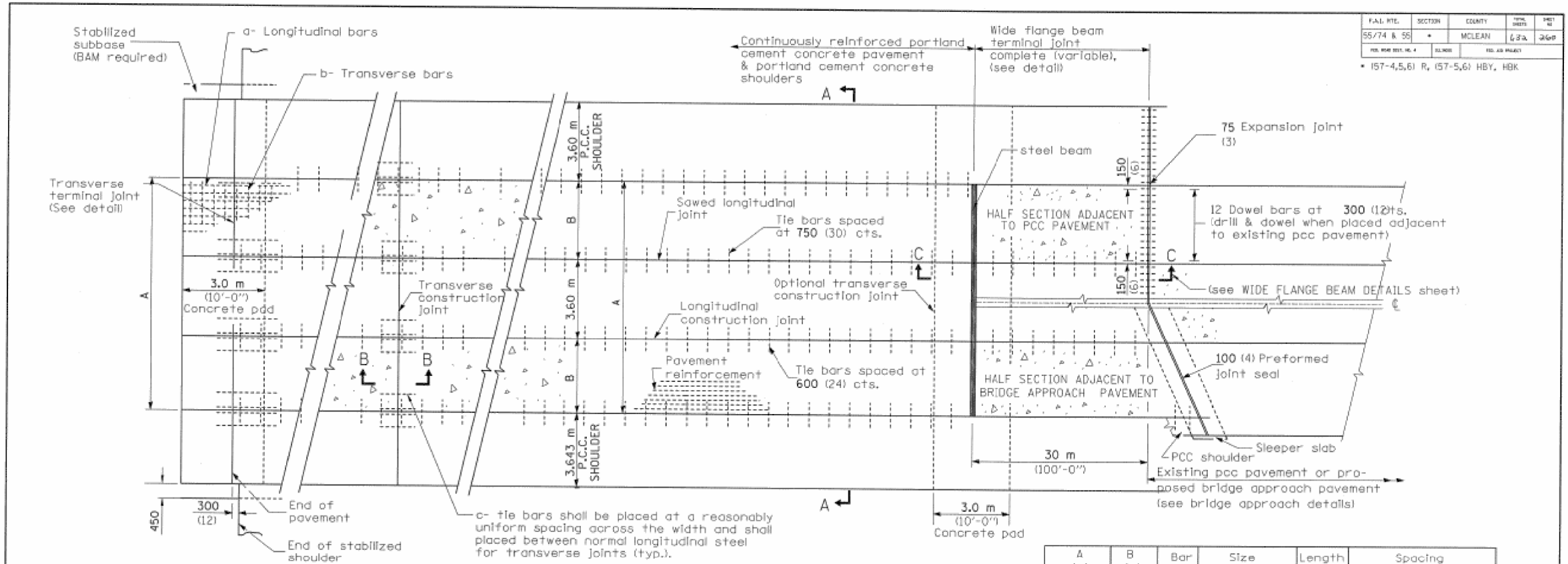
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF POLYMER CONCRETE AT TRANSVERSE
EXPANSION JOINTS

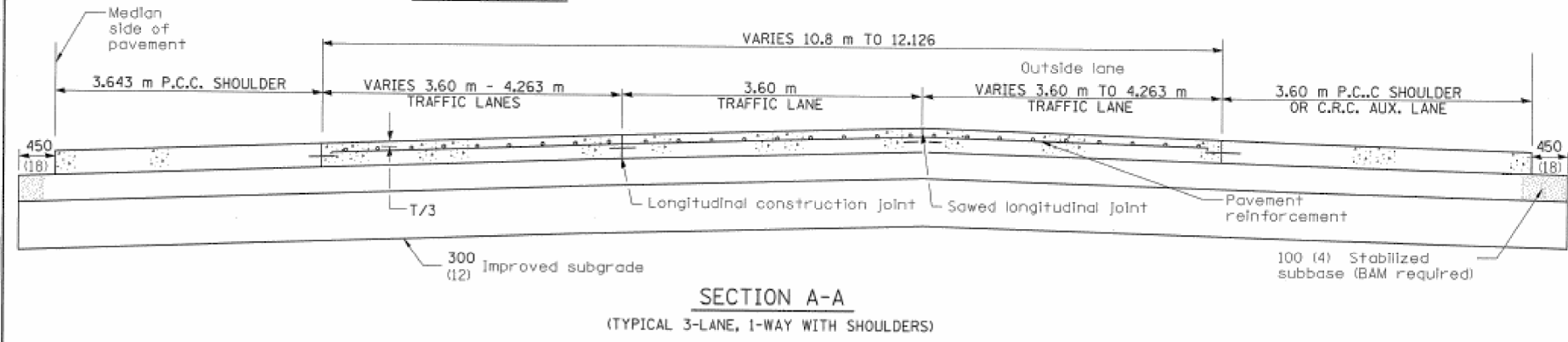
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-SHBR)	MCLEAN	46	44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70E15	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/74 & 55		MCLEAN	43	26P
FED. AID PROJECT				
* 157-4,5,6) R, 157-5,6) HBY, HBK				



TRANSVERSE CONSTRUCTION JOINT SECTION B-B



SECTION A-A (TYPICAL 3-LANE, 1-WAY WITH SHOULDERS)

A (m)	B (m)	Bar	Size	Length (m)	Spacing
10.800	3.60	a	No. 15 (No. 5)	2.85	36 @ 300 cts.
		b	No. 15 (No. 5)	10.65	7 @ 450 cts.
		c	No. 20 (No. 6)	1.80	9 @ 400 cts.
12.126	4.263	a	No. 15 (No. 5)	2.85	40 @ 300 cts.
		b	No. 15 (No. 5)	11.976	7 @ 450 cts.
		c	No. 20 (No. 6)	1.80	10 @ 400 cts.
**14.4	3.60	a	No. 15 (No. 5)	2.85	48 @ 300 cts.
		b	No. 15 (No. 5)	14.25	7 @ 450 cts.
		c	No. 20 (No. 6)	1.80	9 @ 400 cts.

** Includes 3.60 m auxiliary lane

GENERAL NOTES

Dowel bar caps shall be placed on opposite ends of adjacent dowel bars.
 See Standard 421001 for details of reinforcement for C.R.C. pavement.
 See Standards 420001 and 420401 for details of joints and tie bars not shown.
 The C.R.C. Pavement and P.C.C. Shoulders shall conform with Standards 421101 & 421100 unless otherwise shown.
 All dimensions shall be in millimeters (inches) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 55/74
 SECTION (57-4,5,6) R, (57-5,6) HBY, HBK
 MCLEAN COUNTY
C.R.C. PAVEMENT DETAILS & P.C.C. SHOULDER DETAILS
 (WITH WIDE FLANGE BEAM TERMINAL JOINT)

9452063
 01/31/2003

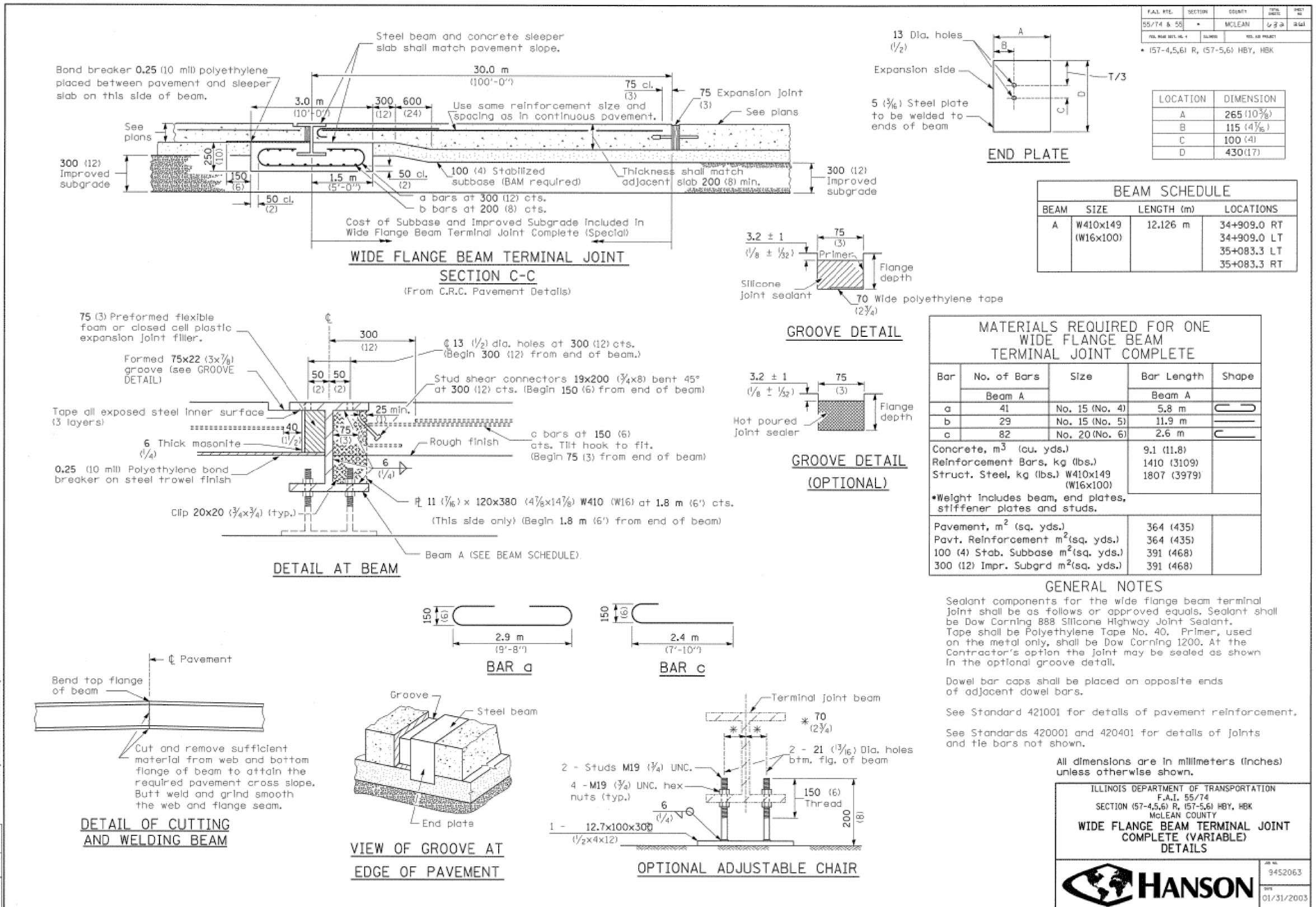
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: NONE		SHEET 2 OF 2 SHEETS		STA.	TO STA.
DETAIL OF POLYMER CONCRETE AT TRANSVERSE EXPANSION JOINTS					

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BR	MCLEAN	46	45
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL OF POLYMER CONCRETE AT TRANSVERSE
EXPANSION JOINTS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(57-5)BJR	MCLEAN	46	46
CONTRACT NO. 70E15				
ILLINOIS FED. AID PROJECT				