135

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(10-34HB)BR-1	CHAMPAIGN	147	1
	ILLINOIS	CONTRACT NO. 70B98		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 57 (I-57)
SECTION (10-34HB)BR-1
PROJECT NHPP-F9TY(264)
BRIDGE REPLACEMENT
CHAMPAIGN COUNTY

C-95-038-16
U.S. 150 (NW OF CHAMPAIGN)

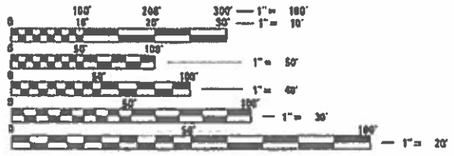
FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

MIDWEST COURT IMPROVEMENT

BEGIN IMPROVEMENT
STA. 151+25.00

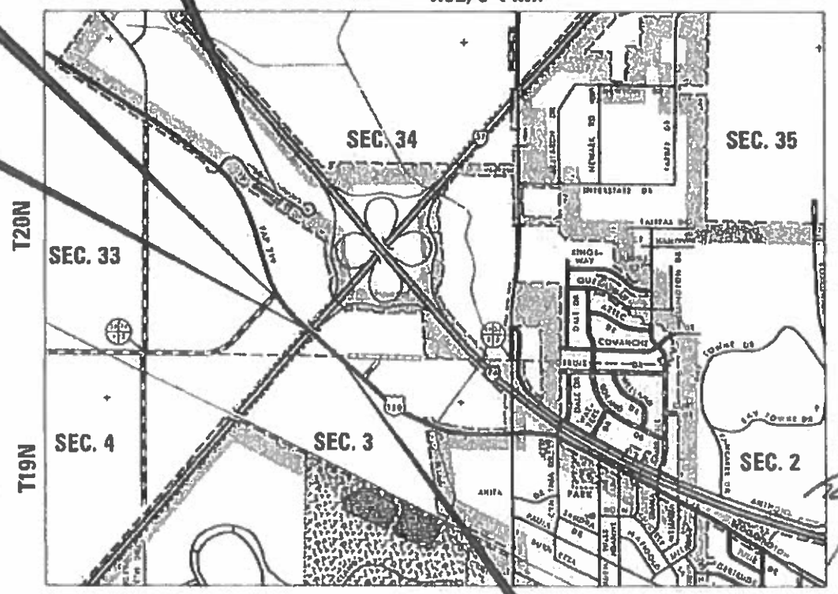
BRIDGE REPLACEMENT
EXIST SN 010-0050
PROP SN 010-1050
STA. 157+29.99 (U.S.-150)
STA. 582+52.38 (I-57)
2 SPANS AT 333'-8" B-B ABUTS.
49'-0" "O-O WIDTH" REINF. CONC. DECK
NO SKEW



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
HENSLEY & CHAMPAIGN TWPS

R8E, 3rd P.M.



END IMPROVEMENT
STA. 162+00.00

N

LOCATION MAP
1" = 2000'

D-95-038-16

LOCATION OF SECTION INDICATED THUS:-

FUNCTIONAL CLASSIFICATION
SUBURBAN OTHER PRINCIPAL ARTERIAL
U.S. 150 OVER I-57: 2017 ADT = 7,400
P.V. = 87.2% S.U. 7.4% M.U. = 5.4%
I-57 UNDER U.S. 150: 2017 ADT = 36,100
P.V. = 71.1% S.U. 3.7% M.U. = 25.2%

KEVIN REED CRIDER
062-057383
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
5-1-19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 7 2019

REGIONAL ENGINEER

Dec 19

ENGINEER OF DESIGN AND ENVIRONMENT

Dec 19

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER: JASON STULTS
CONSULTANT LIAISON: RYAN CARROLL
(217)466-4181

CONTRACT NO. 70B98

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC

U.S. 150		MIDWEST COURT	
GROSS LENGTH =	1075.00 FT. = 0.204 MILE	GROSS LENGTH =	269.50 FT. = 0.051 MILE
NET LENGTH =	1075.00 FT. = 0.204 MILE	NET LENGTH =	269.50 FT. = 0.051 MILE

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 9/6/19

INDEX OF SHEETS

LIST OF STANDARDS

000001-07	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
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311-07	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION
542401-03	METAL FLARED END SECTION FOR PIPE CULVERTS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602301-04	INLET - TYPE A
602401-06	PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER
602701-02	MANHOLE STEPS
604006-05	FRAME AND GRATE TYPE 3
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
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630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-16	TRAFFIC BARRIER TERMINAL, TYPE 6
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642006	SHOULDER RUMBLE STRIPS, 8 in
666001-01	RIGHT OF WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
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701006-05	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W MOVING OPERATIONS- DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701400-09	APPROACH TO LANE CLOSURE, FREEWAY / EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY / EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY / EXPRESSWAY
701451-05	RAMP CLOSURE FREEWAY / EXPRESSWAY
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720021-02	SIGN PANELS EXTRUDED ALUMINUM TYPE
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MAKRERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
812001-01	RACEWAY EMBEDDED IN STRUCTURE
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

FILE NAME = 0570898 sht gennote.dgn	USER NAME = bamary	DESIGNED - CWW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS & HIGHWAY STANDARDS				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - CWW	REVISED -						57	110-34HBIBR-1	CHAMPAIGN	147	2
Default	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -		SCALE: N.T.S.	SHEET OF SHEETS	STA.	TO STA.			CONTRACT NO.70B98		
	PLOT DATE = 5/6/2019 - 2:44:38 PM	DATE - 04/16/2019	REVISED -								ILLINOIS FED. AID PROJECT		

REV. 11/20/19

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.-100B MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR AFTER CONTRACT AWARD. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

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.

THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR LOCATING AND PROVIDING PROTECTION FOR FACILITIES DURING ALL PHASES OF CONSTRUCTION. IF, AT ANY TIME, THE FACILITIES ARE DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DEPARTMENT AND MAKE ALL NECESSARY ARRANGEMENTS FOR REPAIR TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

G.N.-107.37 UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.I.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800) 892-0123 OR 811.

G.N.-201 TREES THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. ANY TREE DUE TO ITS LOCATION AND DEEMED SUITABLE FOR SAVING BY THE ENGINEER SHALL BE PROTECTED DURING CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS.

G.N.-205 BENCHING PROCEDURES SHALL BE USED IN AREAS WHERE EXISTING EMBANKMENTS ARE WIDENED FOR THE PROPOSED PAVEMENT. STEPS SHALL BE CUT INTO THE THE EXISTING EMBANKMENT SLOPES AND SHALL HAVE THE FOLLOWING DIMENSIONS:

HORIZONTAL: VARIES
VERTICAL: 3'

G.N.-280 TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS CONTRACT TO SEED DISTURBED EARTH DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE TEMPORARY EROSION CONTROL SEEDING WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH AT THE TIME OF THEIR COMPLETION.

G.N.-280A THE VARIOUS MULCH PAY ITEMS IN THE PLANS INCLUDE QUANTITIES FOR TEMPORARY MULCH FOR EROSION CONTROL. THE TEMPORARY MULCH INCLUDES MAINTENANCE AND REMOVAL IF NECESSARY, PER THE REQUIREMENTS OF ARTICLE 280 OF THE STANDARD SPECIFICATIONS, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. SOME OR ALL OF THE MULCH USED AS TEMPORARY EROSION CONTROL WILL BE DELETED IF IT IS NOT NECESSARY DUE TO ESTABLISHMENT OF PERMANENT SEEDING.

G.N.-406 THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G.N.-406H MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	LANE PAVEMENT-SURFACE	LANE PAVEMENT-UPPER BINDER	LANE PAVEMENT-LOWER BINDER	SHOULDER PAVEMENT-SURFACE	SHOULDER PAVEMENT-BINDER
MIXTURE USE(S):	POLYMERIZED SURFACE COURSE	POLYMERIZED UPPER BINDER	LOWER BINDER	SURFACE COURSE	BINDER COURSE
AC/PG:	SBS PG 64-28	SBS PG 64-28	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0%, N70	4.0%, N70	4.0%, N70	4.0%, N50	4.0%, N50
MIXTURE COMP (GRADATION)	IL-9.5	IL-19.0	IL-19.0	IL-9.5	IL-19.0
FRICTION AGGREGATE:	MIX "D"	N/A	N/A	MIX "C"	N/A
MIXTURE WEIGHT	112 LB/SY	112 LB/SY	112 LB/SY	112 LB/SY	112 LB/SY
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A	N/A	N/A	N/A

G.N.-501 THE REMOVAL OF THE EXISTING APPROACH SLAB IS INCLUDED IN THE COST OF THE REMOVAL OF EXISTING STRUCTURES.

G.N.-609 PRIOR TO ROUTING TRAFFIC ONTO THE SHOULDERS AS SHOWN IN THE STAGING PLANS, THE CONTRACTOR SHALL SECURE THE GRATINGS ON SHOULDER INLETS AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

G.N.-667 THE RESIDENT ENGINEER SHALL CONTACT PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PC'S, PT'S, AND PI'S). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR LAYOUT OF THESE MARKERS.

G.N.-703A SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHING METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE, SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N.-781 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT (9M) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

G.N.-Z0038 AN ALUMINUM TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.

OTHER GENERAL NOTES:

HOT-MIX ASPHALT SHOULDER CURB REMOVAL IS INCLUDED IN PAVED SHOULDER REMOVAL.

APPROACH SLAB REMOVAL SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES.

COMMITMENTS

FILE NAME = D570B98-sht-gennote.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - CWW	REVISED -	
Default	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -	
	PLOT DATE = 5/6/2019 - 2:44:35 PM	DATE - 04/16/2019	REVISED -	

GENERAL NOTES & COMMITMENTS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	3
		CONTRACT NO.70B98		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE			
				MIDWEST COURT	BRIDGE REPLACEMENT		
				90% FED 10% STATE	90% FED 10% STATE	90% FED 5% STATE & 5% LOCAL	100% LOCAL
				ROADWAY	BRIDGE	BRIDGE RAILING	SIDEWALK
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0010 S.N. 010-1050	0010 URBAN	0021 URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	36	36			
20100500	TREE REMOVAL, ACRES	ACRE	4.00		4.00		
20200100	EARTH EXCAVATION	CU YD	7,850	3,455	4,240		155
20400800	FURNISHED EXCAVATION	CU YD	17,430		14,070		3,360
20600200	GRANULAR EMBANKMENT, SPECIAL	CU YD	2,207		2,207		
20800150	TRENCH BACKFILL	CU YD	466	466			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	20,392		20,392		
21101645	TOPSOIL FURNISH AND PLACE, 12"	SQ YD	3,359	3,359			
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	792		792		
21400100	GRADING AND SHAPING DITCHES	FOOT	129		129		
25000210	SEEDING, CLASS 2A	ACRE	6.00	1.50	4.50		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	530	130	400		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	530	130	400		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	530	130	400		

✳ SPECIALTY ITEM

FILE NAME = D570898-sht-SQQ.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:45:13 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	4
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

REV. 9/6/19

				CONSTRUCTION CODE			
				MIDWEST COURT	BRIDGE REPLACEMENT		
				90% FED 10% STATE	90% FED 10% STATE	90% FED 5% STATE & 5% LOCAL	100% LOCAL
				ROADWAY	BRIDGE	BRIDGE RAILING	SIDEWALK
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0010	0010	0021
				URBAN	S.N. 010-1050	URBAN	URBAN
25100115	MULCH, METHOD 2	ACRE	2.00	1.00	1.00		
25100630	EROSION CONTROL BLANKET	SQ YD	16,699		16,699		
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1,975		1,975		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	580	150	430		
28000305	TEMPORARY DITCH CHECKS	FOOT	60		60		
28000400	PERIMETER EROSION BARRIER	FOOT	716	402	314		
28000500	INLET AND PIPE PROTECTION	EACH	23	8	15		
28100107	STONE RIPRAP, CLASS A4	SQ YD	127		127		
28200200	FILTER FABRIC	SQ YD	127		127		
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	1,979	1,979			
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,110		3,110		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,166		2,166		
40600990	TEMPORARY RAMP	SQ YD	433	433			
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	386		386		

✳ SPECIALTY ITEM

FILE NAME = D570898-sht-SQQ.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	5
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REV. 9/6/19

				CONSTRUCTION CODE			
				MIDWEST COURT	BRIDGE REPLACEMENT		
				90% FED 10% STATE	90% FED 10% STATE	90% FED 5% STATE & 5% LOCAL	100% LOCAL
				ROADWAY	BRIDGE	BRIDGE RAILING	SIDEWALK
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0010 S.N. 010-1050	0010 URBAN	0021 URBAN
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	314		314		
40603235	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	218		218		
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	167		167		
~~40603310~~	~~HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50~~	~~TON~~	~~167~~		~~167~~		
40604162	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	199		199		
~~40603540~~	~~POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70~~	~~TON~~	~~199~~		~~199~~		
42000211	PORTLAND CEMENT CONCRETE PAVEMENT 7 1/2" (JOINTED)	SQ YD	1,793	1,793			
42001300	PROTECTIVE COAT	SQ YD	1,943	1,943			
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	4,584.0	1,803.5			2780.5
44000100	PAVEMENT REMOVAL	SQ YD	3,845	2,654	1,191		
44000300	CURB REMOVAL	FOOT	365	365			
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	805	805			
44000600	SIDEWALK REMOVAL	SQ FT	2,215	2,215			
44004250	PAVED SHOULDER REMOVAL	SQ YD	868		868		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	12		12		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1		

1 REV. 2/21/20

✳ SPECIALTY ITEM

FILE NAME = D570898-sht-SOQ.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:45:25 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	6
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE			
				MIDWEST COURT	BRIDGE REPLACEMENT		
				90% FED 10% STATE	90% FED 10% STATE	90% FED 5% STATE & 5% LOCAL	100% LOCAL
				ROADWAY	BRIDGE	BRIDGE RAILING	SIDEWALK
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0010 S.N. 010-1050	0010 URBAN	0021 URBAN
50104400	CONCRETE HEADWALL REMOVAL	EACH	6		6		
50105220	PIPE CULVERT REMOVAL	FOOT	324		324		
50157300	PROTECTIVE SHIELD	SQ YD	783		783		
50200100	STRUCTURE EXCAVATION	CU YD	419		371		48
50300225	CONCRETE STRUCTURES	CU YD	222.6		198.4		24.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	623.9		566.7		57.2
50300300	PROTECTIVE COAT	SQ YD	2,552		2,328		224
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	LSUM	1		0.86		0.14
50500505	STUD SHEAR CONNECTORS	EACH	5,418		4,644		774
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	191,250		172,800		18,450
50800515	BAR SPLICERS	EACH	1,426		1,426		
50800530	MECHANICAL SPLICERS	EACH	128		128		
50901730	BRIDGE FENCE RAILING	FOOT	390			390	
50901750	PARAPET RAILING	FOOT	420			420	

✳ SPECIALTY ITEM

FILE NAME = D570898-sht-SQQ.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
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Default	PLOT DATE = 5/6/2019 - 2:45:31 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	7
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE			
				MIDWEST COURT	BRIDGE REPLACEMENT		
				90% FED 10% STATE	90% FED 10% STATE	90% FED 5% STATE & 5% LOCAL	100% LOCAL
				ROADWAY	BRIDGE	BRIDGE RAILING	SIDEWALK
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0010 S.N. 010-1050	0010 URBAN	0021 URBAN
51100100	SLOPE WALL 4 INCH	SQ YD	437		385		52
51200958	FURNISHING METAL SHELL PILES 14" X 0.250"	FOOT	1,742		1,541		201
51202000	FURNISHING STEEL PILES HP14X102	FOOT	1,648		1,458		190
51202305	DRIVING PILES	FOOT	3,390		2,983		407
51203200	TEST PILE METAL SHELLS	EACH	1		1		
51204000	TEST PILE STEEL HP14X102	EACH	2		2		
51500100	NAME PLATES	EACH	1		1		
52000110	PREFORMED JOINT STRIP SEAL	FOOT	102		86		16
52100520	ANCHOR BOLTS, 1"	EACH	28		24		4
52100540	ANCHOR BOLTS, 1 1/2"	EACH	14		12		2
52200010	TEMPORARY SHEET PILING	SQ FT	3,411		3,411		
52200600	GEOTEXTILE RETAINING WALL	SQ FT	1,056		1,056		
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1			
54262712	METAL FLARED END SECTION 12"	EACH	9		9		

✳ SPECIALTY ITEM

FILE NAME = D570898-sht-SQQ.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	8
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

				CONSTRUCTION CODE			
				MIDWEST COURT	BRIDGE REPLACEMENT		
				90% FED 10% STATE	90% FED 10% STATE	90% FED 5% STATE & 5% LOCAL	100% LOCAL
				ROADWAY	BRIDGE	BRIDGE RAILING	SIDEWALK
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0010	0010	0021
				URBAN	S.N. 010-1050	URBAN	URBAN
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	216	216			
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	155	155			
55100900	STORM SEWER REMOVAL 18"	FOOT	635	635			
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	290		255		35
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	134		118		16
60100945	PIPE DRAINS 12"	FOOT	711		686		25
60218500	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	4	4			
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	650.5	650.5			
61000050	CONCRETE THRUST BLOCKS	EACH	9		9		
61000115	TYPE E INLET BOX, STANDARD 610001	EACH	9		9		
✳ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1,237.5		1,237.5		
✳ 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2		2		
✳ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4		4		
✳ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2		2		

✳ SPECIALTY ITEM

FILE NAME = D570898-sht-SQQ.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	9
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

					CONSTRUCTION CODE			
					MIDWEST COURT	BRIDGE REPLACEMENT		
					90% FED 10% STATE	90% FED 10% STATE	90% FED 5% STATE & 5% LOCAL	100% LOCAL
					ROADWAY	BRIDGE	BRIDGE RAILING	SIDEWALK
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0010 S.N. 010-1050	0010 URBAN	0021 URBAN
	63200310	GUARDRAIL REMOVAL	FOOT	1,665		1,665		
	63400105	GUARD POSTS	EACH	8		8		
	64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	1,851		1,851		
	64300450	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2		2		
	64301090	ATTENUATOR BASE	SQ YD	102		102		
	66101150	HOT-MIX ASPHALT SHOULDER CURB	FOOT	1,367		1,367		
	66500105	WOVEN WIRE FENCE, 4'	FOOT	1,010		1,010		
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	15		15		
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	161		161		
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1		1		
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1		1		
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	12		12		
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION PLANS	LSUM	1		1		
	67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	15		15		

* SPECIALTY ITEM

FILE NAME = D570898-sht-S00.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	10
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

REV. 12/04/19 REV. 9/6/19

				CONSTRUCTION CODE			
				MIDWEST COURT	BRIDGE REPLACEMENT		
				90% FED 10% STATE	90% FED 10% STATE	90% FED 5% STATE & 5% LOCAL	100% LOCAL
				ROADWAY	BRIDGE	BRIDGE RAILING	SIDEWALK
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0010 S.N. 010-1050	0010 URBAN	0021 URBAN
67100100	MOBILIZATION	LSUM	1		0.9		0.1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5		5		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1		1		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	704		704		
70200100	NIGHTTIME WORK ZONE LIGHTING	LSUM	1		1		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	167		167		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	56		56		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5,601		5,601		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3,112.5		3,112.5		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,300.0		1,300.0		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	3		3		
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	3		3		
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2		2		
✳ 72000300	SIGN PANEL - TYPE 3	SQ FT	384		384		

✳ SPECIALTY ITEM

FILE NAME = D570898-sht-S00.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES
		DRAWN - CWW	REVISED -		
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	11
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

REV. 9/6/19

					CONSTRUCTION CODE			
					MIDWEST COURT	BRIDGE REPLACEMENT		
					90% FED 10% STATE	90% FED 10% STATE	90% FED 5% STATE & 5% LOCAL	100% LOCAL
					ROADWAY	BRIDGE	BRIDGE RAILING	SIDEWALK
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0010	0010	0021
					URBAN	S.N. 010-1050	URBAN	URBAN
✳	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1		1		
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2		2		
	72700100	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY	POUND	3,460		3,460		
	73400100	CONCRETE FOUNDATIONS	CU YD	9.0		9.0		
	73602000	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED	EACH	1		1		
✳	78008310	POLYUREA PAVEMENT MARKING TYPE II - LINE 4"	FOOT	5,601		5,601		
✳	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	17		17		
✳	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	20		20		
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	21		21		
✳	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	1,600		1,600		
✳	81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	4		4		
	X0325201	SHOULDER RUMBLE STRIP REMOVAL	SQ YD	25		25		
	X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	4,318		4,318		
	X2500002	POWDER COATING OF PARAPET RAILING AND BRIDGE FENCE RAILING	LSUM	1				1

✳ SPECIALTY ITEM

FILE NAME = D570898-sht-SQQ.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - CWW	REVISED -					57	(10-34HB)BR-1	CHAMPAIGN	147	12
Default	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -							CONTRACT NO. 70B98		
	PLOT DATE = 5/6/2019 - 2:46:00 PM	DATE - 04/16/2019	REVISED -		SCALE: N.T.S.	SHEET OF SHEETS	STA. TO STA.			ILLINOIS FED. AID PROJECT		

				CONSTRUCTION CODE			
				MIDWEST COURT	BRIDGE REPLACEMENT		
				90% FED 10% STATE	90% FED 10% STATE	90% FED 5% STATE & 5% LOCAL	100% LOCAL
				ROADWAY	BRIDGE	BRIDGE RAILING	SIDEWALK
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004 URBAN	0010 S.N. 010-1050	0010 URBAN	0021 URBAN
✳ X2600012	REMOVE AND RELOCATE SIGN PANEL AND POLE ASSEMBLY	EACH	1		1		
X4201410	BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)	SQ YD	172		172		
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	647		647		
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	1,044		1,044		
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	332		287		45
X5040100	PRECAST BRIDGE APPROACH SLAB	SQ FT	2,830		2,470		360
X6340205	GUARD POSTS REMOVAL	EACH	8		8		
X6430120	REMOVE IMPACT ATTENUATORS, NO SALVAGE	EACH	2		2		
X6431110	REMOVE ATTENUATOR BASE	EACH	2		2		
X6640304	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	225		225		
X6650202	WOVEN WIRE FENCE REMOVAL	FOOT	961		961		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1		1		
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	8		8		
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	129		129		

✳ SPECIALTY ITEM

FILE NAME = D570898-sht-SQQ.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	13
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

REV. 9/6/19

				CONSTRUCTION CODE			
				MIDWEST COURT	BRIDGE REPLACEMENT		
				90% FED 10% STATE	90% FED 10% STATE	90% FED 5% STATE & 5% LOCAL	100% LOCAL
				ROADWAY	BRIDGE	BRIDGE RAILING	SIDEWALK
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0010	0010	0021
				URBAN	S.N. 010-1050	URBAN	URBAN
X7200201	WIDTH RESTRICTION SIGNING	LSUM	1		1		
✳ X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	5,140		5,140		
Z0013798	CONSTRUCTION LAYOUT	LSUM	1		1		
Z0016702	DETOUR SIGNING	LSUM	1		1		
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	12		12		
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	1,687		1,687		
Z0038700	PERMANENT BENCH MARKS	EACH	1		1		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	184		162		22
Ø Z0076600	TRAINEES	HOUR	2500	2500			
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	2500	2500			

✳ SPECIALTY ITEM Ø 0042

FILE NAME = D570898-sht-S00.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
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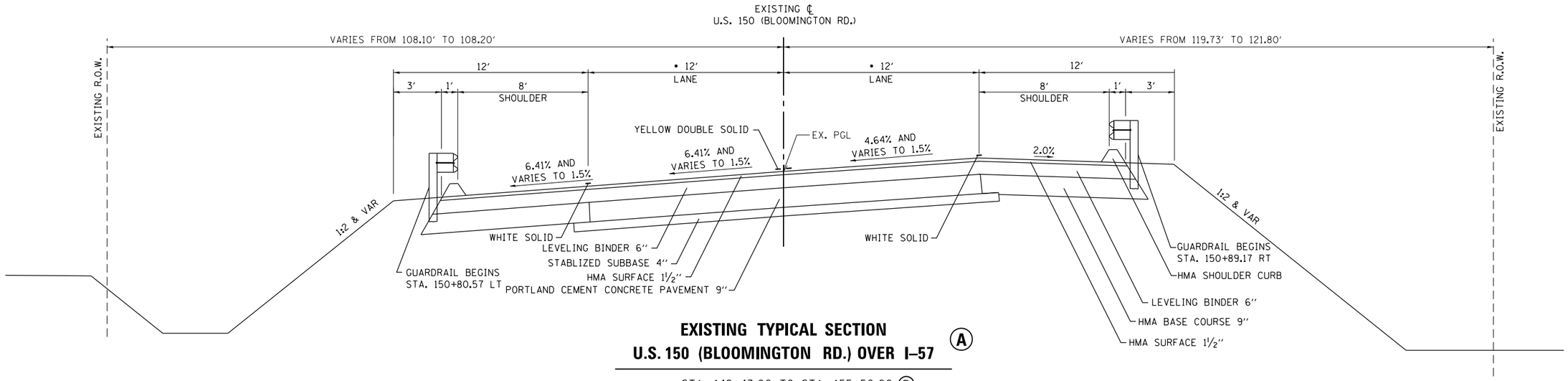
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	14
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

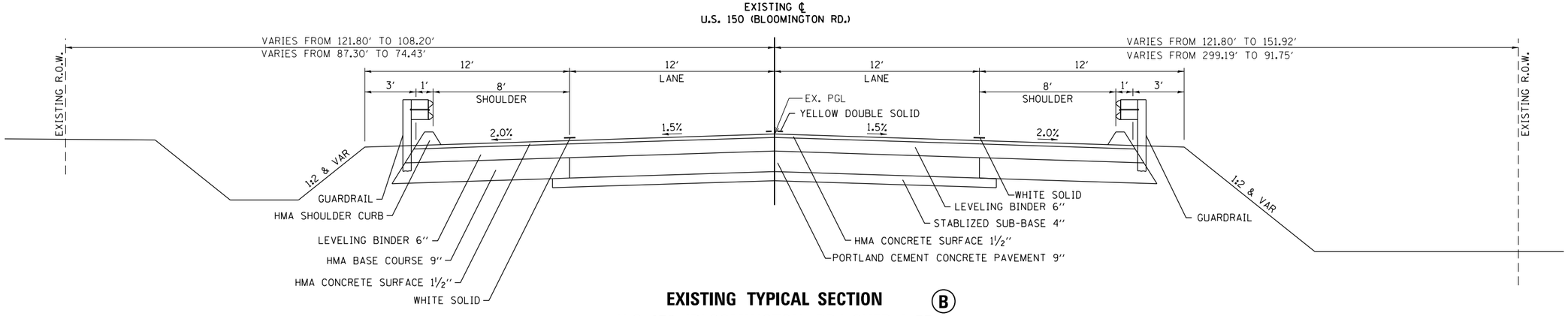
REV. 1/23/20 REV. 9/6/19



EXISTING TYPICAL SECTION Ⓐ
U.S. 150 (BLOOMINGTON RD.) OVER I–57

STA. 149+43.00 TO STA. 155+50.00 Ⓑ

• EXISTING PAVEMENT WIDTH VARIES FROM:
11' AT STA. 150+96.92 TO
12' AT STA. 151+48.39



EXISTING TYPICAL SECTION Ⓑ
U.S. 150 (BLOOMINGTON RD.) OVER I–57

Ⓐ STA. 155+50.00 TO STA. 155+73.19
STA. 158+89.19 TO STA. 162+00.00

FILE NAME = D570898-sht-Typicals_Existing.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
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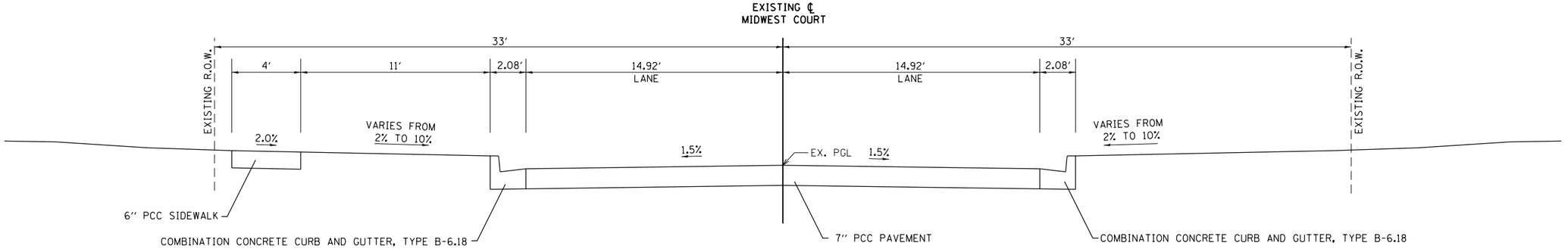
	PLOT DATE = 5/6/2019 - 2:46:39 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
U.S. 150 OVER I–57

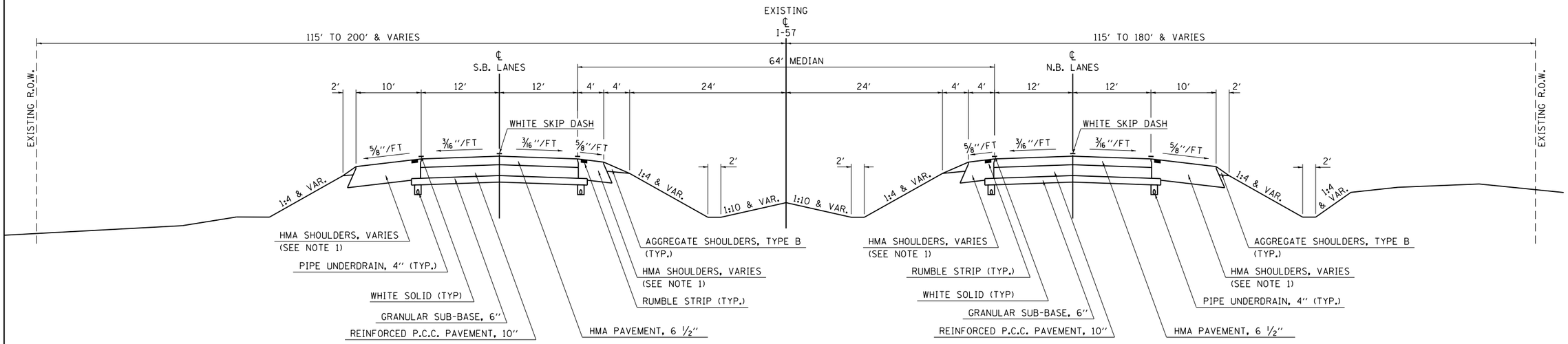
SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	15
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



EXISTING TYPICAL SECTION
MIDWEST COURT (C)

STA. 19+82.96 TO STA. 23+66.28
EXISTING CUL-DE-SAC FROM
STA. 23+66.28 TO STA. 25+09.00



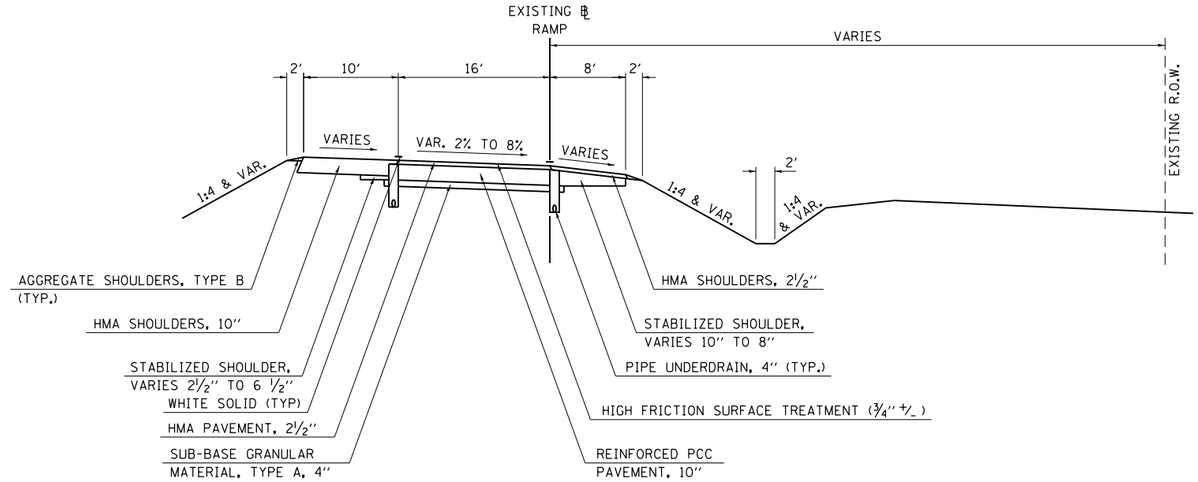
PRIOR OMISSION FROM RESURFACING
STA. 580+60.00 TO STA. 583+40.00 - S.N. 010-0050
HMA PAVEMENT DEPTH = 4¾″
HMA SHOULDER DEPTH = OUTSIDE 14¾″ TO 12¾″
INSIDE 14¾″ TO 13¾″

EXISTING TYPICAL SECTION
F.A.I. 57 (I–57) (D)

STA. 545+00.00 TO STA. 623+36.00

NOTE 1: HMA SHOULDER DEPTHS
STA. 575+00.00 TO STA. 623+36.00 = OUTSIDE 16½″ TO 13¼″
INSIDE 16½″ TO 14¾″

FILE NAME = D570B98-sht-Typicals_Existing.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING TYPICAL SECTIONS MIDWEST COURT & I–57			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - CWW	REVISED -					57	(10-34HB)BR-1	CHAMPAIGN	147	16
	PLOT SCALE = 100.0000 ′ / in.	CHECKED - BJE	REVISED -							CONTRACT NO. 70B98		
Default	PLOT DATE = 5/6/2019 - 2:46:39 PM	DATE - 04/16/2019	REVISED -		SCALE: N.T.S.	SHEET OF SHEETS	STA. TO STA.			ILLINOIS FED. AID PROJECT		

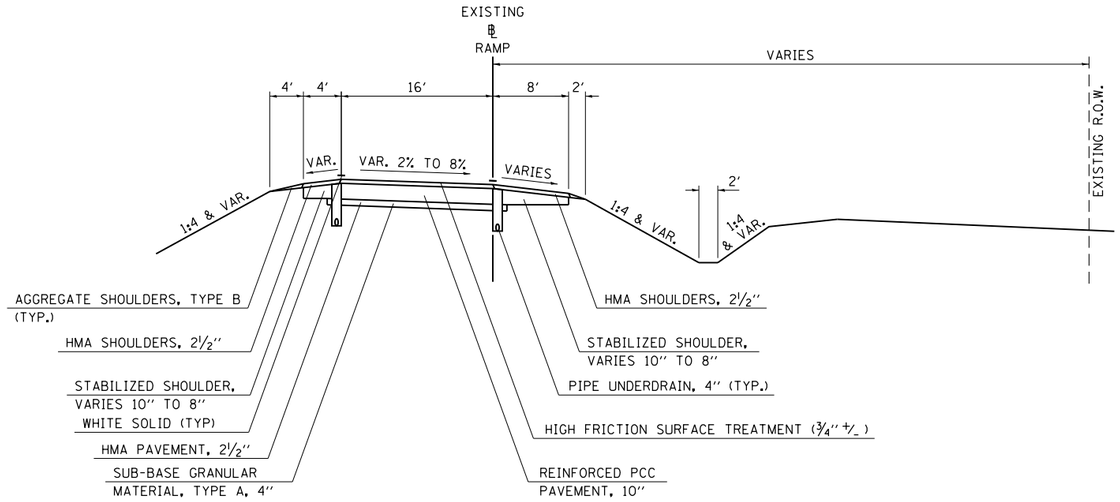


EXISTING TYPICAL SECTION RAMP A (E)

FOR INFORMATION ONLY

NOTE:
PORTIONS OF THE EXISTING 16' WIDE RAMP PAVEMENTS WERE PATCHED WITH CONTINUOUSLY REINFORCED PCC PAVEMENT (DEPTH = 13") PRIOR TO PLACEMENT OF THE HIGH FRICTION SURFACE TREATMENT (DEPTH = ¾" +/-). THE APPROXIMATE AMOUNTS OF EXISTING RAMP PAVEMENTS THAT HAVE BEEN PREVIOUSLY PATCHED ARE:

RAMP A - 18%
RAMP B - 60%



EXISTING TYPICAL SECTION RAMP B (F)

FOR INFORMATION ONLY

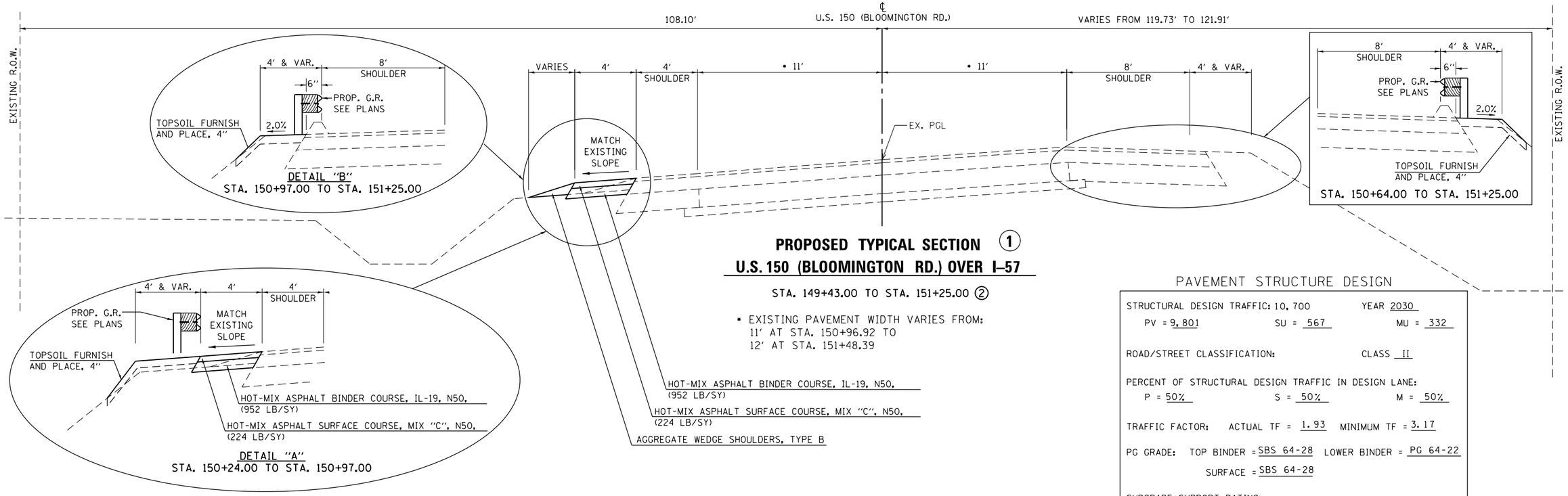
FILE NAME = D570898-sht-Typicals_Existing.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:46:39 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS
RAMPS A & B

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	17
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION (1)
U.S. 150 (BLOOMINGTON RD.) OVER I–57

STA. 149+43.00 TO STA. 151+25.00 (2)

- EXISTING PAVEMENT WIDTH VARIES FROM:
  11′ AT STA. 150+96.92 TO
  12′ AT STA. 151+48.39

PAVEMENT STRUCTURE DESIGN

STRUCTURAL DESIGN TRAFFIC: 10,700 YEAR 2030
PV = 9,801 SU = 567 MU = 332

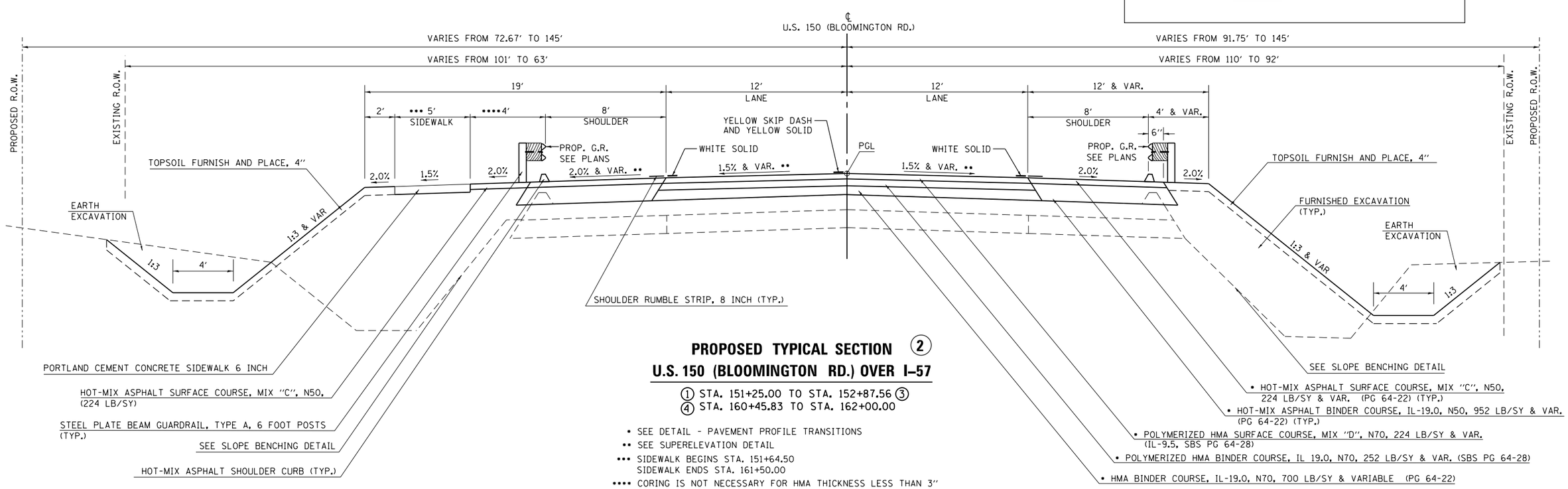
ROAD/STREET CLASSIFICATION: CLASS II

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 50% S = 50% M = 50%

TRAFFIC FACTOR: ACTUAL TF = 1.93 MINIMUM TF = 3.17

PG GRADE: TOP BINDER = SBS 64-28 LOWER BINDER = PG 64-22
SURFACE = SBS 64-28

SUBGRADE SUPPORT RATING:
SSR = POOR



PROPOSED TYPICAL SECTION (2)
U.S. 150 (BLOOMINGTON RD.) OVER I–57

(1) STA. 151+25.00 TO STA. 152+87.56 (3)
(4) STA. 160+45.83 TO STA. 162+00.00

- • SEE DETAIL - PAVEMENT PROFILE TRANSITIONS
- •• SEE SUPERELEVATION DETAIL
- ••• SIDEWALK BEGINS STA. 151+64.50
  SIDEWALK ENDS STA. 161+50.00
- •••• CORING IS NOT NECESSARY FOR HMA THICKNESS LESS THAN 3″

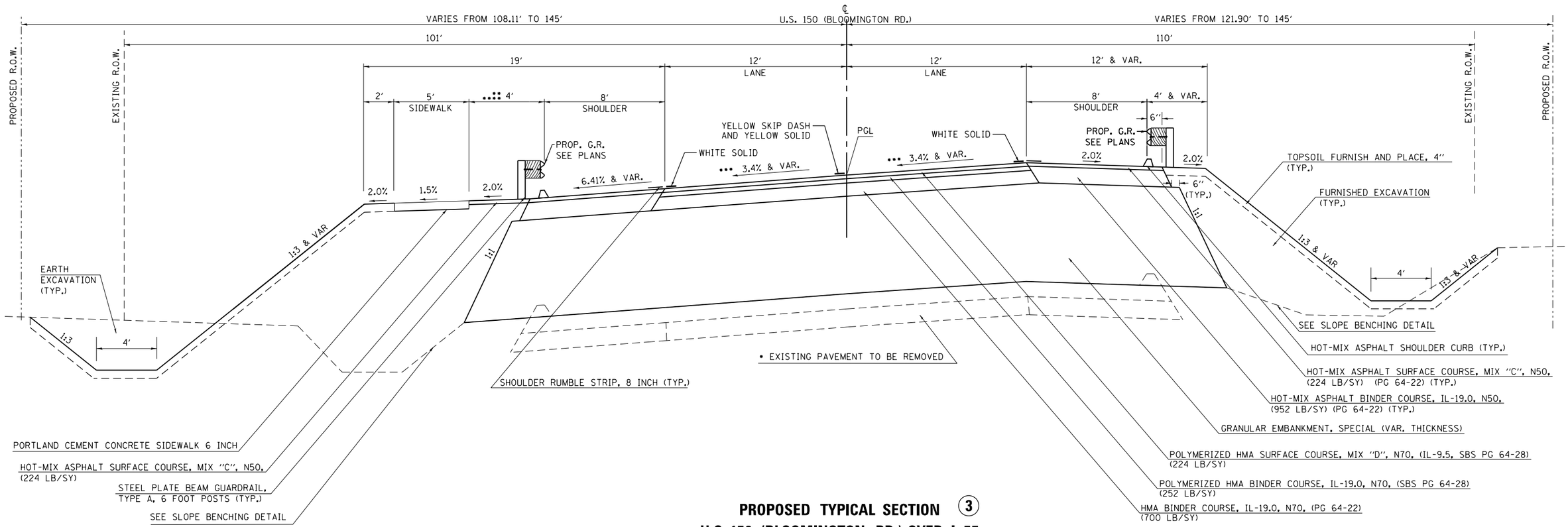
FILE NAME = D570B98-sht-Typicals_Proposed.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 100.0000 ′ / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:47:01 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTIONS
U.S. 150 (BLOOMINGTON AVE.) OVER I–57

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	18
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION (3)

U.S. 150 (BLOOMINGTON RD.) OVER I–57

(2) STA. 152+87.56 TO STA. 155+21.67 (APPROACH PAVEMENT) (4)

- • SEE PAVEMENT PROFILE TRANSITION DETAIL AND REMOVAL PLANS FOR PAVEMENT REMOVAL LIMITS
- •• SIDEWALK BUFFER AREA VARIES STA. 154+94.31 TO STA. 155+21.67
- ••• SEE SUPERELEVATION DETAIL
- •••• CORING IS NOT NECESSARY FOR HMA THICKNESS LESS THAN 3"

FILE NAME = D570B98-sht-Typicals_Proposed.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
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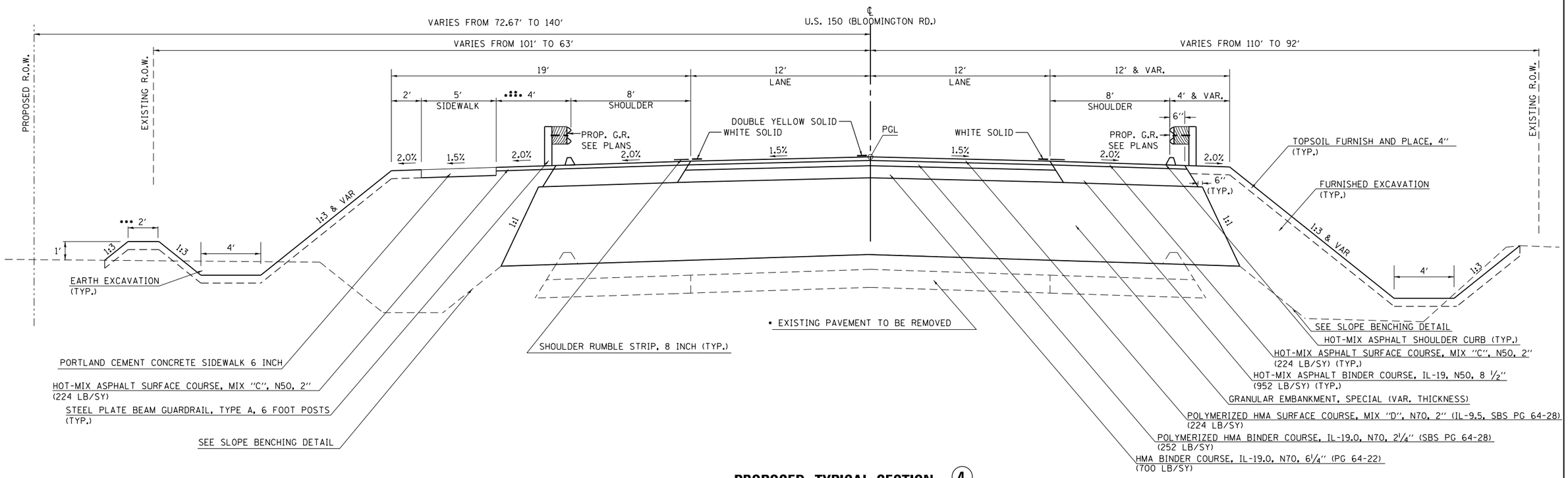
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTION
U.S. 150 (BLOOMINGTON AVE.) OVER I–57

SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	19
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION ④

U.S. 150 (BLOOMINGTON RD.) OVER I-57

③ (APPROACH PAVEMENT) STA. 159+13.35 TO STA. 160+45.83 ②

• SEE PAVEMENT PROFILE TRANSITION DETAIL AND REMOVAL PLANS FOR PAVEMENT REMOVAL LIMITS

•• SIDEWALK BUFFER AREA VARIES STA. 159+13.35 TO STA. 159+40.70

••• EARTH BERM STA. 158+41 TO STA. 161+25 LT

•••• CORING IS NOT NECESSARY FOR HMA THICKNESS LESS THAN 3"

FILE NAME = D570B98-sht-Typicals_Proposed.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
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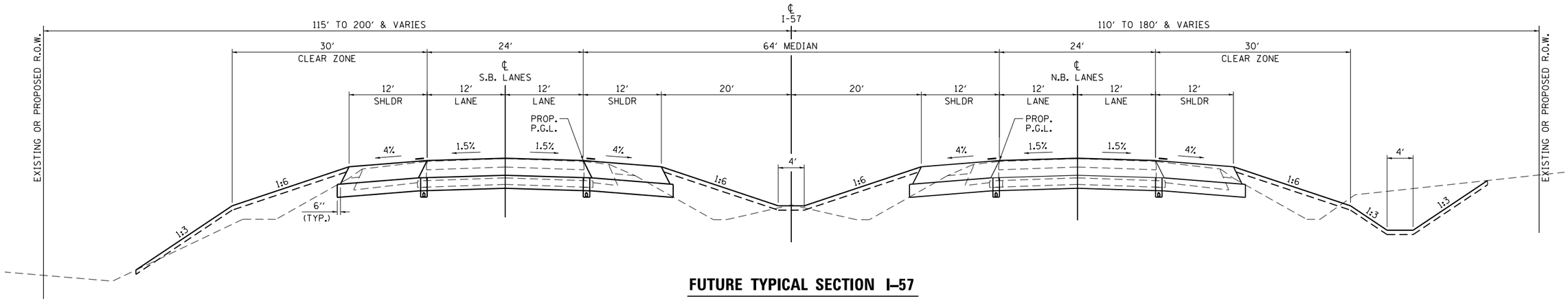
	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:47:01 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTION
U.S. 150 (BLOOMINGTON AVE.) OVER I-57

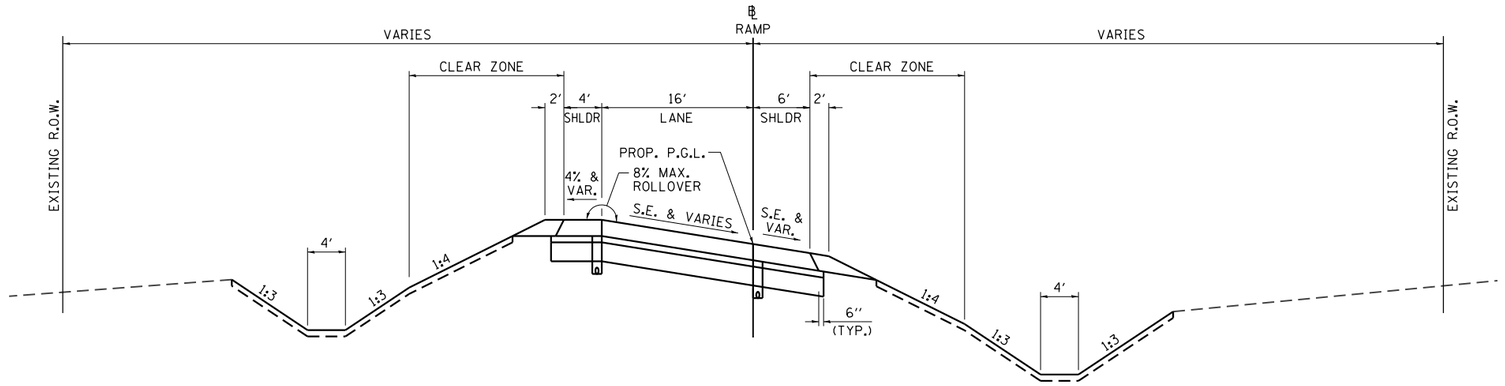
SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	20
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



FUTURE TYPICAL SECTION I–57

FOR INFORMATION ONLY



FUTURE TYPICAL SECTION RAMPS A & B

FOR INFORMATION ONLY

FILE NAME = D570B98-sht-Typicals_Proposed.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
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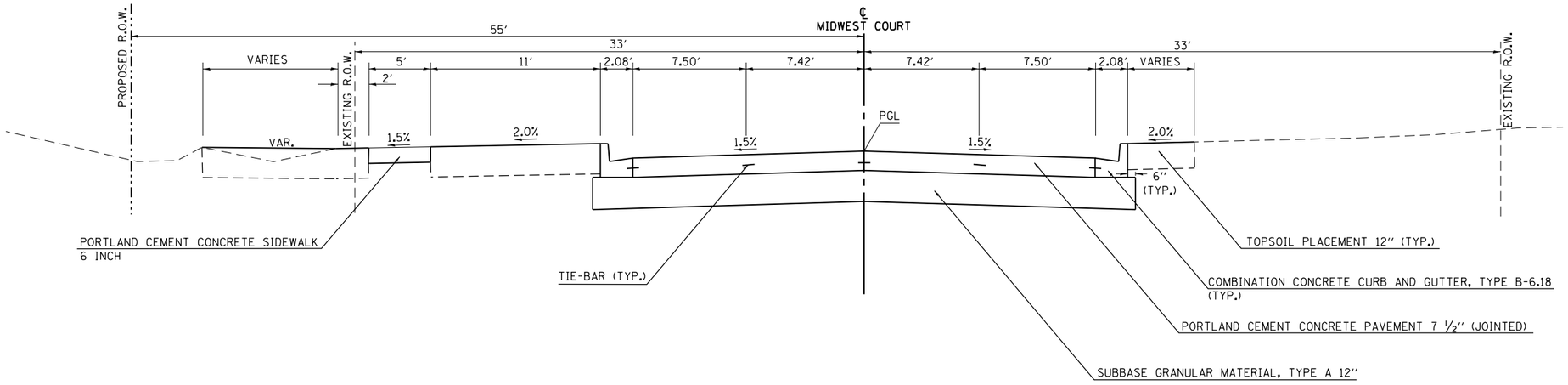
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FUTURE TYPICAL SECTIONS
I–57 & RAMPS A & B

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	21
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION MIDWEST COURT

STA. 19+82.96 TO STA. 21+02.44
SEE CUL-DE-SAC DETAIL FOR
STA. 21+02.44 TO STA. 22+46.90

FILE NAME = D570B98-sht-Typicals_Proposed.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
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	PLOT DATE = 5/6/2019 - 2:47:02 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TYPICAL SECTION
MIDWEST COURT

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	22
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

EROSION CONTROL

LOCATION STATION TO STATION	SIDE	EROSION CONTROL BLANKET 25100630 SQ YD	HEAVY DUTY EROSION CONTROL BLANKET 25100635 SQ YD	TEMPORARY DITCH CHECKS 28000305 FOOT	PERIMETER EROSION BARRIER 28000400 FOOT	INLET & PIPE PROTECTION 28000500 EACH
CHAMPAIGN COUNTY						
PRE-STAGE A						
U.S. 150						
150+24.18 TO 151+25.00	RT	359.4				
STAGE 1						
U.S. 150						
150+60.51 TO 151+25.00	RT	441.6				
151+25.00 TO 152+32.04	RT	886.6				
152+32.04 TO 152+87.56	RT	582.8				
152+58.53	RT					1
152+57.90	RT					1
152+87.56 TO 155+11.67	RT	2,800.0				
153+50.00	RT			10		
153+69.90	RT					1
155+06.51	RT					1
155+11.67 TO 156+24.19	RT	1,350.5				
155+50.00	RT			10		
158+33.95 TO 159+23.35	RT	854.6				
159+00.00 TO 159+23.35	RT		151.6			
159+23.35 TO 160+45.83	RT	1,295.9	169.8			
159+29.00	RT					1
160+23.98	RT					1
160+42.00	RT			10		
160+45.83 TO 161+00.00	RT	624.0	352.5			
160+45.83 TO 161+33.15	RT					
161+01.84	RT					1
161+33.15 TO 162+00.00	RT		584.9			
MIDWEST COURT						
19+82.99 TO 22+49.19	LT					
19+82.99 TO 22+49.19	RT					
20+21.13	LT					1
20+21.13	RT					1
22+07.73	RT					1
22+38.47	LT					1
21+50.00 TO 25+08.35	RT				402	
22+81.97	LT					1
22+84.00	RT					1
24+23.07	RT					1
25+00.00	LT					1

EROSION CONTROL

LOCATION STATION TO STATION	SIDE	EROSION CONTROL BLANKET 25100630 SQ YD	HEAVY DUTY EROSION CONTROL BLANKET 25100635 SQ YD	TEMPORARY DITCH CHECKS 28000305 FOOT	PERIMETER EROSION BARRIER 28000400 FOOT	INLET & PIPE PROTECTION 28000500 EACH
STAGE 2						
U.S. 150						
151+25.00	LT					1
151+25.00 TO 152+32.04	LT	797.2				
152+32.04 TO 152+87.56	LT	469.4				
152+57.93	LT					1
152+60.02	LT					1
152+87.56 TO 155+11.67	LT	2,299.5				
153+56.34	LT			10		
153+66.75	LT					1
155+06.14	LT					1
155+11.67 TO 156+24.95	LT	1,369.9				
155+87.67	LT			10		
158+37.73 TO 159+23.35	LT	957.9			83	
159+23.35 TO 160+45.83	LT	1,282.5			123	
159+28.75	LT					1
159+95.50	LT			10		
160+24.54	LT					1
160+45.83 TO 161+00.00	LT	526.6				
160+45.83 TO 161+33.15	LT				91	
161+00.00 TO 161+33.15	LT		290.8			
161+01.84	LT					1
161+33.15 TO 161+50.00	LT				17	
161+33.15 TO 162+05.27	LT		425.1			
PROJECT TOTAL		**16,699**	**1,975**	**60**	**716**	**23**

GRADING AND SHAPING DITCHES

LOCATION STATION TO STATION	SIDE	GRADING AND SHAPING DITCHES 21400100 SQ YD
CHAMPAIGN COUNTY		
STAGE 1		
U.S. 150		
150+54.70 TO 151+83.50	RT	129.0
PROJECT TOTAL		**129**

EARTHWORK

LOCATION STATION TO STATION	SIDE	EARTH EXCAVATION 20200100 CU YD	FOR INFORMATION ONLY: AVERAGE SHRINKAGE FACTOR %	FOR INFORMATION ONLY: EARTH EXCAVATION (ADJUSTED) CU YD	FOR INFORMATION ONLY: EMBANKMENT CU YD	FOR INFORMATION ONLY: EARTHWORK BALANCE WASTE (+) SHORTAGE (-) CU YD	FURNISHED EXCAVATION 20400800 CU YD	TOPSOIL FURNISH AND PLACE, 4" 21101615 SQ YD	TOPSOIL FURNISH AND PLACE, 12" 21101645 SQ YD
CHAMPAIGN COUNTY									
PRE-STAGE A									
U.S. 150									
150+24.18 TO 151+25.00		20	25	15	5	10	-10	361	
STAGE 1									
U.S. 150									
149+50.00 TO 162+00.00	RT	2,785	25	2,089	10,315	-8,226	8,226	10,985	
MIDWEST COURT									
19+82.96 TO 25+08.35		3,455	25	2,591	55	2,536	-2,536		3,359
STAGE 2									
U.S. 150									
151+00.00 TO 162+00.00	LT	1,590	25	1,193	12,935	-11,743	11,743	9,045	
PROJECT TOTAL		7,850					17,430	20,392	3,359

FILE NAME = D570B98-sht-schedule.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
Default	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -
	PLOT DATE = 5/6/2019 - 2:47:23 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	23
		CONTRACT NO. 70B98		
	ILLINOIS	FED. AID PROJECT		

SEEDING

LOCATION STATION TO STATION	SIDE	SEEDING, CLASS 2A 25000210	MULCH, METHOD 2 25100115	TEMPORARY EROSION CONTROL SEEDING 28000250	NITROGEN FERTILIZER NUTRIENT 25000400	PHOSPHORUS FERTILIZER NUTRIENT 25000500	POTASSIUM FERTILIZER NUTRIENT 25000600
		ACRE	ACRE	POUND	POUND	POUND	POUND
CHAMPAIGN COUNTY							
PRE-STAGE A							
U.S. 150							
149+43.03 TO 151+25.00	LT	0.09	0.01	8.6	7.7	7.7	7.7
I-57							
577+32.37 TO 580+98.37	RT	0.43	0.43	43.3	39.0	39.0	39.0
581+81.04 TO 583+28.98	CL	0.19	0.19	19.1	17.2	17.2	17.2
STAGE 1							
U.S. 150							
150+64.07 TO 151+25.00	RT	0.09		9.1	8.2	8.2	8.2
151+25.00 TO 152+32.04	RT	0.18		18.3	16.5	16.5	16.5
152+32.04 TO 152+87.56	RT	0.12		12.0	10.8	10.8	10.8
152+87.56 TO 155+11.67	RT	0.58		58.2	52.4	52.4	52.4
155+11.67 TO 156+51.16	RT	0.35	0.06	34.6	31.2	31.2	31.2
158+07.37 TO 159+23.35	RT	0.32	0.16	32.5	29.2	29.2	29.2
159+23.35 TO 160+45.83	RT	0.30		30.3	27.3	27.3	27.3
160+45.83 TO 161+33.15	RT	0.20		20.2	18.2	18.2	18.2
161+33.15 TO 162+00.00	RT	0.12		12.1	10.9	10.9	10.9
MIDWEST COURT							
19+82.96 TO 22+49.19	LT	0.15	0.15	15.4	13.8	13.8	13.8
19+82.96 TO 22+49.19	RT	0.04	0.04	4.3	3.9	3.9	3.9
22+49.19 TO 25+08.35	LT	0.62	0.62	61.9	55.7	55.7	55.7
22+49.19 TO 25+08.35	RT	0.13	0.13	13.1	11.8	11.8	11.8
STAGE 2							
U.S. 150							
151+25.00 TO 152+32.04	LT	0.16		16.5	14.8	14.8	14.8
152+32.04 TO 152+87.56	LT	0.10		9.7	8.7	8.7	8.7
152+87.56 TO 155+11.67	LT	0.48		47.6	42.8	42.8	42.8
155+11.67 TO 156+51.58	LT	0.34	0.06	34.2	30.8	30.8	30.8
158+11.46 TO 159+23.35	LT	0.26	0.06	26.1	23.5	23.5	23.5
159+23.35 TO 160+45.83	LT	0.27		27.1	24.4	24.4	24.4
160+45.83 TO 161+33.15	LT	0.17		17.0	15.3	15.3	15.3
161+33.15 TO 162+00.00	LT	0.09		8.8	7.9	7.9	7.9
PROJECT TOTAL		**6.00**	**2.00**	**580**	**530**	**530**	**530**

NOTE: FERTILIZER APPLICATION RATE = 90 LB/ACRE
TEMPORARY EROSION CONTROL SEEDING INCLUDES 3 APPLICATIONS, APPLICATION RATE = 100 LB/ACRE

EXPLORATION TRENCH

LOCATION STATION TO STATION	SIDE	EXPLORATION TRENCH 52" DEPTH 21301052
		FOOT
CHAMPAIGN COUNTY		
STAGE 2		
U.S. 150		
151+49.89 TO 156+00.82	LT	450.9
158+69.58 TO 162+10.00	LT	340.4
PROJECT TOTAL		**792**

GEOTEXTILE RETAINING WALL

LOCATION STATION TO STATION	SIDE	GEOTEXTILE RETAINING WALL 52200600
		SQ YD
CHAMPAIGN COUNTY		
STAGE 1		
U.S. 150		
152+87.56 TO 155+50.67	CL	735.0
158+84.35 TO 160+45.83	CL	321.0
PROJECT TOTAL		**1,056**

RIPRAP

LOCATION STATION TO STATION	SIDE	STONE RIPRAP, CLASS A4 28100107	FILTER FABRIC 28200200
		SQ YD	SQ YD
CHAMPAIGN COUNTY			
STAGE 1			
U.S. 150			
152+58.00	RT	5.4	5.4
155+00.00	RT	5.4	5.4
159+34.00	RT	6.0	6.0
161+02.00	RT	5.8	5.8
STAGE 2			
U.S. 150			
151+25.00	LT	6.6	6.6
152+58.00	LT	5.4	5.4
155+00.00	LT	5.4	5.4
155+19.67	LT	37.9	37.9
159+15.35	LT	38.0	38.0
159+34.00	LT	5.4	5.4
161+02.00	LT	5.4	5.4
PROJECT TOTAL		**127**	**127**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	24
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

REMOVAL

LOCATION STATION TO STATION	SIDE	TREE REMOVAL (6 TO 15 UNITS DIAMETER) 20100110	TREE REMOVAL, ACRES 20100500	PAVEMENT REMOVAL 44000100	PAVED SHOULDER REMOVAL 4404250	SHOULDER RUMBLE STRIP REMOVAL X0325201	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH X4401198	CURB REMOVAL 44000300	COMBINATION CURB AND GUTTER REMOVAL 44000500	SIDEWALK REMOVAL 44000600	GUARDRAIL REMOVAL 63200310	GUARD POSTS REMOVAL X6340205	REMOVE IMPACT ATTENUATORS, NO SALVAGE X6430120	REMOVE ATTENUATOR BASE X6431110	REMOVAL OF EXISTING STRUCTURES 50100100	PIPE CULVERT REMOVAL 50105220	STORM SEWER REMOVAL 18" 55100900	CONCRETE HEADWALL REMOVAL 50104400	DRAINAGE STRUCTURE TO BE REMOVED Z0018700
		UNIT	ACRE	SQ YD	SQ YD	SQ YD	SQ YD	FOOT	FOOT	SQ FT	FOOT	EACH	EACH	EACH	EACH	FOOT	FOOT	EACH	EACH
CHAMPAIGN COUNTY																			
STAGE 1																			
U.S. 150																			
149+36.00 TO 149+80.00	LT					5													
150+65.00 TO 156+25.00	RT		1.25																
150+89.17 TO 155+90.68	RT										501.5								
152+18.50 TO 152+32.04	*RT				0.8														
152+32.04 TO 152+87.56	*RT				7.3														
152+56.77	RT																	1	
152+58.20	RT																		1
152+58.69	RT															54.2			
152+87.56 TO 155+21.67	RT			291.3	220.0														
153+67.14	RT																	1	
153+69.16	RT																		1
153+69.35	RT															52.9			
158+30.00 TO 162+00.00	RT		1.25																
155+21.67 TO 155+73.44	RT			70.6	46.0														
156+02.93 TO 158+59.30	RT														0.5				
158+72.28 TO 161+97.75	RT										325.5								
158+89.19 TO 159+13.35	RT			34.2	21.3														
159+13.55 TO 160+45.83	RT			186.6	115.9														
160+24.02	RT															59.1			
160+24.21	RT																	1	
160+24.72	RT																		1
160+45.83 TO 161+33.15	*RT				7.8														
161+33.15 TO 161+48.00	*RT				1.1														
162+75.00 TO 163+55.00	LT					9													
I-57																			
581+74.00	CL											1							
581+79.00	CL											1							
581+84.00	CL											1							
581+89.00	CL											1							
582+31.00	CL												1	1					
MIDWEST COURT																			
19+82.96 TO 21+04.62	LT			203.6															
19+82.96 TO 21+04.62	RT			202.2															
19+82.96 TO 23+66.12	LT								383										
19+82.96 TO 24+04.59	RT								422										
19+82.96 TO 25+08.35	LT									2,215									
20+21.32	RT																		1
20+21.33	LT																		1
20+21.40	LT																33.1		
20+21.46 TO 22+82.78	RT																261.3		
21+04.62 TO 22+49.19	LT			240.1															
21+04.62 TO 22+49.19	RT			244.2															
21+29.91	RT	6																	
21+65.23	LT	6																	
21+75.92	LT	6																	
22+09.42	RT	6																	
22+49.19 TO 23+66.12	LT			192.7															
22+49.19 TO 23+66.12	RT			196.3															
22+72.30	LT	6																	
22+81.66	LT																		1
22+82.25	RT																32.9		
22+82.78	RT																		1
22+82.79 TO 24+22.85	RT																140.2		
23+66.12 TO 25+08.16	LT&RT							365											
23+66.12 TO 25+08.16	LT			1,027.6															
23+66.12 TO 25+08.16	RT			347.2															

SCHEDULE CONTINUED ON THE NEXT SHEET

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	25
		CONTRACT NO. 70B98		
	ILLINOIS	FED. AID PROJECT		

REMOVAL

LOCATION STATION TO STATION	SIDE	TREE REMOVAL (6 TO 15 UNITS DIAMETER) 20100110	TREE REMOVAL, ACRES 20100500	PAVEMENT REMOVAL 44000100	PAVED SHOULDER REMOVAL 4404250	SHOULDER RUMBLE STRIP REMOVAL X0325201	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH X4401198	CURB REMOVAL 44000300	COMBINATION CURB AND GUTTER REMOVAL 44000500	SIDEWALK REMOVAL 44000600	GUARDRAIL REMOVAL 63200310	GUARD POSTS REMOVAL X6340205	REMOVE IMPACT ATTENUATORS, NO SALVAGE X6430120	REMOVE ATTENUATOR BASE X6431110	REMOVAL OF EXISTING STRUCTURES 50100100	PIPE CULVERT REMOVAL 50105220	STORM SEWER REMOVAL 18" 55100900	CONCRETE HEADWALL REMOVAL 50104400	DRAINAGE STRUCTURE TO BE REMOVED Z0018700
		UNIT	ACRE	SQ YD	SQ YD	SQ YD	SQ YD	FOOT	FOOT	SQ FT	FOOT	EACH	EACH	EACH	EACH	FOOT	FOOT	EACH	EACH
24+22.85	RT																		1
24+43.04	RT																118.1		
24+99.27	LT																		1
24+99.78 TO OUTLET	LT																48.5		
N 1267518.97 E 997122.96		6																	
STAGE 2																			
U.S. 150																			
150+80.57 TO 155+90.95	LT										505.6								
151+40.00 TO 156+25.00	LT		1.00																
152+18.50 TO 152+32.04	*LT				3.2														
152+32.04 TO 152+87.56	*LT				4.7														
152+59.20	LT																	1	
152+60.59	LT															54.5			1
152+87.56 TO 155+21.67	LT			321.4	207.6														
152+66.62	LT																		1
153+64.02	LT																	1	
153+67.53	LT															47.8			
155+21.67 TO 155+73.44	LT			72.6	44.5														
156+02.93 TO 158+59.30	LT														0.5				
158+30.00 TO 162+05.00	LT		0.50																
158+71.59 TO 162+03.06	LT										331.5								
158+89.19 TO 159+13.35	LT			33.4	21.3														
159+13.55 TO 160+45.83	LT			180.1	123.0														
160+24.02	LT															55.1			
160+24.67	LT																		1
160+25.09	LT																	1	
160+45.83 TO 161+33.15	*LT				8.6														
161+33.15 TO 161+48.00	*LT				0.9														
162+75.00 TO 163+68.00	RT					11													
I-57																			
582+73.00	CL												1	1					
583+09.00	CL											1							
583+14.00	CL											1							
583+19.00	CL											1							
583+24.00	CL											1							
STAGE 3																			
U.S. 150																			
151+25.00 TO 152+18.50	LT						206.6												
151+25.00 TO 152+18.50	RT						208.9												
151+25.00 TO 152+18.50	*LT				25.0														
151+25.00 TO 152+18.50	*RT				1.0														
161+48.00 TO 162+00.00	LT						115.6												
161+48.00 TO 162+00.00	RT						115.6												
161+48.00 TO 162+00.00	*LT				3.6														
161+48.00 TO 162+00.00	*RT				3.8														
PROJECT TOTAL		**36**	**4.00**	**3,845**	**868**	**25**	**647**	**365**	**805**	**2,215**	**1,665**	**8**	**2**	**2**	**1**	**324**	**635**	**6**	**12**

NOTES: * ONLY SHOULDER CURB INCLUDED IN THE REMOVAL

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	26
		CONTRACT NO. 70B98		
	ILLINOIS	FED. AID PROJECT		

HOT-MIX ASPHALT PAVEMENT

LOCATION STATION TO STATION	SIDE	BITUMINOUS MATERIALS (PRIME COAT) 40600275	BITUMINOUS MATERIALS (TACK COAT) 40600290	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 40603540	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 40603310	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N-70 40603235	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N-70 40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 40603080	TEMPORARY RAMP 40600990	HOT-MIX ASPHALT SHOULDER CURB 66101150	SHOULDER RUMBLE STRIPS, 8" 64200108
		POUND	POUND	TON	TON	TON	TON	TON	SQ YD	FOOT	FOOT
CHAMPAIGN COUNTY											
PRE-STAGE A											
U.S. 150											
149+43.00 TO 150+97.00	LT		49		8.2			35.0			
STAGE 1											
U.S. 150											
152+24.64 TO 152+31.30	RT								13.4		
152+32.04 TO 152+87.56	RT		73			17.8		13.5			
152+46.34 TO 152+69.76	RT								29.2		
152+87.56 TO 155+06.33	RT	990.1	170			30.7	85.4	93.3			
154+88.32 TO 155+11.66	RT								37.8		
155+11.66 TO 155+21.67	RT								19.9		
159+13.35 TO 159+22.33	RT								18.0		
159+22.33 TO 159+45.67	RT								37.8		
159+28.65 TO 160+45.83	RT	277.3	91			16.4	45.6	49.6			
160+45.83 TO 161+33.15	RT		113			27.9		20.2			
160+90.33 TO 161+13.67	RT								29.2		
161+33.10 TO 161+39.77	RT								13.3		
STAGE 2											
U.S. 150											
151+64.48 TO 152+18.50	LT				2.6						
152+18.50 TO 152+32.04	LT				0.6						
152+24.64 TO 152+31.30	LT								16.2		
152+32.04 TO 152+87.56	LT		82		2.7	22.9		12.7			
152+46.34 TO 152+69.76	LT								29.2		
152+87.56 TO 155+06.33	LT	1,197.4	213		10.5	42.8	118.8	91.7			
154+88.33 TO 155+11.66	LT								48.2		
155+11.66 TO 155+21.67	LT								24.4		
159+13.35 TO 159+22.33	LT								22.0		
159+22.33 TO 159.45.67	LT								48.2		
159+28.65 TO 160+45.83	LT	644.5	114		5.7	23.0	63.8	49.6			
160+45.83 TO 161+33.15	LT		130		4.3	36.1		20.2			
160+90.33 TO 161+13.67	LT								29.2		
161+33.10 TO 161+39.77	LT								16.3		
161+33.15 TO 161+48.00	LT				0.7						
161+48.00 TO 161+50.00	LT				0.1						

SCHEDULE CONTINUED ON THE NEXT SHEET

HOT-MIX ASPHALT PAVEMENT

LOCATION STATION TO STATION	SIDE	BITUMINOUS MATERIALS (PRIME COAT) 40600275	BITUMINOUS MATERIALS (TACK COAT) 40600290	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 40603540	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 40603310	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N-70 40603235	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N-70 40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 40603080	TEMPORARY RAMP 40600990	HOT-MIX ASPHALT SHOULDER CURB 66101150	SHOULDER RUMBLE STRIPS, 8" 64200108
		POUND	POUND	TON	TON	TON	TON	TON	SQ YD	FOOT	FOOT
STAGE 3											
U.S. 150											
149+36.00 TO 150+97.00	LT										160
151+25.00 TO 152+18.50	LT		103	14.0	9.2					92.4	94
151+25.00 TO 152+18.50	RT		104	14.1	9.4					94.6	94
152+18.50 TO 152+32.04	LT		15	2.6	1.7					12.7	14
152+18.50 TO 152+32.04	RT		15	2.6	1.7					13.0	14
152+32.04 TO 152+87.56	LT		92	8.3	5.5					55.6	56
152+32.04 TO 152+87.56	RT		92	8.4	5.6					56.9	56
152+87.56 TO 155+06.33	LT		120	32.8	21.6					216.9	224
152+87.56 TO 155+06.33	RT		120	32.6	21.9					221.3	224
155+06.33 TO 155+21.67	LT									15.0	10
155+06.33 TO 155+21.67	RT									15.0	10
159+13.35 TO 159+28.65	LT									15.0	10
159+13.35 TO 159+28.65	RT									15.0	10
159+28.65 TO 160+45.83	LT		65	17.6	11.6					117.5	122
159+28.65 TO 160+45.83	RT		65	17.6	11.7					117.5	122
160+45.83 TO 161+33.15	LT		96	13.1	8.7					87.3	87
160+45.83 TO 161+33.15	RT		96	13.1	8.7					87.3	87
161+33.15 TO 161+48.00	LT		17	2.8	1.8					14.9	15
161+33.15 TO 161+48.00	RT		17	2.8	1.8					14.9	15
161+48.00 TO 162+00.00	LT		57	7.8	5.2					52.0	52
161+48.00 TO 162+00.00	RT		57	7.8	5.2					52.0	52
162+00.00 TO 163+55.00	LT										155
162+00.00 TO 163+68.00	RT										168
PROJECT TOTAL		**3,110**	**2,166**	**199**	**167**	**218**	**314**	**386**	**433**	**1,367**	**1,851**

GRANULAR EMBANKMENT, SPECIAL

LOCATION STATION TO STATION	SIDE	GRANULAR EMBANKMENT, SPECIAL 2060200
		CU YD
CHAMPAIGN COUNTY		
STAGE 1		
U.S. 150		
152+87.00 TO 153+87.00	RT	178.2
153+87.00 TO 154+87.00	RT	318.0
154+87.00 TO 155+43.00	RT	215.1
158+91.00 TO 159+45.00	RT	142.7
159+45.00 TO 160+45.00	RT	182.5
STAGE 2		
U.S. 150		
152+87.00 TO 153+87.00	LT	213.2
153+87.00 TO 154+87.00	LT	342.3
154+87.00 TO 155+43.00	LT	253.7
158+91.00 TO 159+45.00	LT	168.2
159+45.00 TO 160+45.00	LT	192.3
PROJECT TOTAL		**2,207**

AGGREGATE SHOULDER

LOCATION STATION TO STATION	SIDE	AGGREGATE WEDGE SHOULDER, TYPE B 48102100
		TON
CHAMPAIGN COUNTY		
PRE-STAGE A		
U.S. 150		
149+43.00 TO 150+97.00	LT	12
PROJECT TOTAL		**12**

PAVEMENT CONNECTOR

LOCATION STATION TO STATION	SIDE	BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL) X4201410	* PARAPET RAILING 50901750
		SQ YD	FOOT
CHAMPAIGN COUNTY			
STAGE 1			
U.S. 150			
155+06.33 TO 155+21.67	RT	32.2	
159+13.23 TO 159+28.65	RT	31.5	
STAGE 2			
U.S. 150			
155+06.33 TO 155+21.67	LT	54.6	15.0
159+13.23 TO 159+28.65	LT	53.5	15.0
PROJECT TOTAL		**172**	**30**

NOTES: * SEE STRUCTURE PLANS BILL OF MATERIALS FOR ADDITIONAL QUANTITY

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	28
		CONTRACT NO. 70B98		
	ILLINOIS	FED. AID PROJECT		

DRAINAGE

LOCATION STATION TO STATION	SIDE	TRENCH BACKFILL 20800150	STORM SEWERS, CLASS A, TYPE 2 18" 550A0380	STORM SEWERS, CLASS A, TYPE 2 24" 550A0410	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE 60218500	TYPE E INLET BOX, STANDARD 610001 61000115	PIPE DRAINS 12" 60100945	CONCRETE THRUST BLOCKS 61000050	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" 54213669	METAL END SECTIONS 12" 54215547
		CU YD	FOOT	FOOT	EACH	EACH	FOOT	EACH	EACH	EACH
CHAMPAIGN COUNTY										
STAGE 1										
U.S. 150										
152+58.00	RT					1	61	1		1
155+00.00	RT					1	86	1		1
159+34.00	RT					1	95	1		1
161+02.00	RT					1	84	1		1
MIDWEST COURT										
20+21.11	LT				1					
20+21.11	RT				1					
20+21.11	CL	39	30							
20+21.11 TO 22+07.80	RT	106	186							
20+21.46 TO 22+82.78	RT	236								
22+07.80	RT				1					
22+07.80 TO 22+38.58	RT	77		103						
22+38.58	LT				1					
22+38.58 TO 22+90.00	LT	8		52						
22+90.00	LT								1	
STAGE 2										
U.S. 150										
151+25.00	LT					1	47	1		1
152+58.00	LT					1	68	1		1
155+00.00	LT					1	94	1		1
159+34.00	LT					1	95	1		1
161+02.00	LT					1	81	1		1
PROJECT TOTAL		**466**	**216**	**155**	**4**	**9**	**711**	**9**	**1**	**9**

SIDEWALK

LOCATION STATION TO STATION	SIDE	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH 42400300
		SQ FT
CHAMPAIGN COUNTY		
STAGE 1		
MIDWEST COURT		
19+82.96 TO 21+04.62	LT	608.2
21+04.62 TO 22+67.44	LT	1195.1
STAGE 2		
U.S. 150		
151+64.48 TO 152+18.50	LT	258.50
152+18.50 TO 152+32.04	LT	63.10
152+32.04 TO 152+87.56	LT	272.78
152+87.56 TO 153+71.02	LT	410.88
153+71.02 TO 155+06.33	LT	668.30
159+28.65 TO 159+59.65	LT	155.00
159+59.65 TO 160+45.83	LT	430.90
160+45.83 TO 161+33.15	LT	436.60
161+33.15 TO 161+48.00	LT	74.25
161+48.00 TO 161+50.00	LT	10.00
PROJECT TOTAL		**4,584.0**

P.C.C. PAVEMENT

LOCATION STATION TO STATION	SIDE	PROTECTIVE COAT 42001300	PORTLAND CEMENT CONCRETE PAVEMENT 7 1/2" (JOINTED) 42000211	SUBBASE GRANULAR MATERIAL, TYPE A 12" 31100910	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 60604400
		SQ YD	SQ YD	SQ YD	FOOT
CHAMPAIGN COUNTY					
STAGE 1					
MIDWEST COURT					
19+82.96 TO 21+04.62	LT	230	202	237	121.7
18+92.96 TO 21+04.62	RT	230	202	237	121.7
21+04.62 TO 22+46.90	CUL-DE-SAC	1,483	1,389	1,505	407.0
PROJECT TOTAL		**1,943**	**1,793**	**1,979**	**650.5**

R.O.W. MARKERS

LOCATION STATION TO STATION	SIDE	OFFSET	FURNISHING AND ERECTING R.O.W. MARKERS 66600105
			EACH
CHAMPAIGN COUNTY			
STAGE 1			
U.S. 150			
152+75.00	RT	120.08	1
152+75.00	RT	130.00	1
153+84.08	RT	145.00	1
154+78.15	RT	145.00	1
155+62.08	RT	145.00	1
160+90.32	RT	125.00	1
161+60.00	RT	125.00	1
161+90.00	RT	88.47	1
I-57			
575+80.00	RT	122.94	1
579+65.00	RT	175.20	1
STAGE 2			
U.S. 150			
152+20.00	LT	109.94	1
155+10.00	LT	145.00	1
159+04.97	LT	140.00	1
161+00.00	LT	140.00	1
161+76.03	LT	75.02	1
PROJECT TOTAL			**15**

TEMPORARY CONCRETE BARRIER

LOCATION STATION TO STATION	SIDE	DESCRIPTION	TEMPORARY CONCRETE BARRIER 70400100	RELOCATE TEMPORARY CONCRETE BARRIER 70400200	PINNING TEMPORARY CONCRETE BARRIER X7040125	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 70600250	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 70600260	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 70600350
			FOOT	FOOT	EACH	EACH	EACH	EACH
CHAMPAIGN COUNTY								
PRE-STAGE A								
I-57								
578+36.00	*LT	NORTHBOUND I-57					1	
578+36.00 TO 583+11.00	*LT	NORTHBOUND I-57	475.0					
578+79.50	*RT	NORTHBOUND I-57					1	
578+79.50 TO 583+04.50	*RT	NORTHBOUND I-57	425.0					
581+93.00 TO 586+68.00	*LT	SOUTHBOUND I-57	475.0					
581+96.00 TO 586+08.50	*RT	SOUTHBOUND I-57	412.5					
586+08.50	*RT	SOUTHBOUND I-57				1		
586+68.00	*LT	SOUTHBOUND I-57					1	
STAGE 1								
U.S. 150								
150+25.00	RT					1		
150+25.00 TO 163+25.00	LT		1,300.0					
163+25.00	RT					1		
STAGE 2								
U.S. 150								
150+12.50	LT							1
150+12.50 TO 163+12.50	RT			1,300.0				
163+12.50 TO 163+37.50	RT		25.0					
163+37.50	LT							1
152+06.30 TO 155+21.67	RT				72			
159+13.35 TO 161+58.10	RT				57			
		PROJECT TOTAL	**3,112.5**	**1,300.0**	**129**	**3**	**3**	**2**

NOTES: * LT/RT SIDES ARE GIVEN WITH RESPECT TO THE DIRECTION OF TRAFFIC.

IMPACT ATTENUATOR

LOCATION STATION TO STATION	SIDE	IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3 64300450	ATTENUATOR BASE 64301090	GUARD POSTS 63400105
		EACH	SQ YD	EACH
CHAMPAIGN COUNTY				
STAGE 1				
I-57				
581+70.00	CL			1
581+75.00	CL			1
581+80.00	CL			1
581+85.00	CL			1
582+31.00	CL	1	51	
STAGE 2				
I-57				
583+25.00	CL			1
583+30.00	CL			1
583+35.00	CL			1
583+40.00	CL			1
582+79.00	CL	1	51	
PROJECT TOTAL		**2**	**102**	**8**

FENCE

LOCATION STATION TO STATION	SIDE	WOVEN WIRE FENCE, 4' 66500105	WOVEN WIRE FENCE REMOVAL X6650202	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED X6640304
		FOOT	FOOT	FOOT
CHAMPAIGN COUNTY				
I-57				
575+77.01 TO 581+52.32	RT	581		
575+77.01 TO 581+52.70	RT		590	
579+37.19 TO 579+60.71	RT		35	
581+06.40 TO 581+32.94	LT		27	
583+39.12 TO 583+92.36	RT		54	
583+63.66 TO 584+02.95	LT		40	
U.S. 150				
152+75.00 TO 154+62.69	RT			225
154+59.89 TO 155+71.65	RT		113	
154+62.69 TO 155+74.71	RT	114		
155+11.04 TO 155+23.91	LT	38		
155+11.04 TO 155+99.21	LT	89		
158+74.03 TO 159+03.95	LT	30		
158+94.11 TO 159+03.95	LT	53		
160+96.63 TO 161+86.18	RT	105		
160+96.63 TO 161+86.18	RT		102	
PROJECT TOTAL		**1,010**	**961**	**225**

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	30
		CONTRACT NO. 70B98		
	ILLINOIS	FED. AID PROJECT		

SIGNS

LOCATION STATION TO STATION	SIDE	OFFSET	SIGN DESCRIPTION	SIGN PANEL TYPE 3 72000300	STRUCTURAL STEEL SIGN SUPPORT - BREAKAWAY 72700100	CONCRETE FOUNDATIONS 73400100	RELOCATE SIGN PANEL ASSEMBLY - TYPE A 72400500	REMOVE AND RELOCATE SIGN PANEL AND POLE ASSEMBLY X2600012	REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED 73602000
				SQ FT	POUND	CU YD	EACH	EACH	EACH
CHAMPAIGN COUNTY									
PRE-STAGE A									
I-57									
580+95.00	*RT	78.00	W13-3			1.4		1	
580+95.00	*RT	125.25	Exit 237B	28.8					
580+95.00	*RT	124.50	I-74 West, Peoria 1/4 Mile	136.5	1,560	3.8			
580+95.00	*RT	147.25	Exit 237A	28.8					
580+95.00	*RT	143.00	I-74 East, Indianapolis	190.0	1,900	3.8			
STAGE 1									
U.S. 150									
157+85.00	RT								1
STAGE 2									
U.S. 150									
154+80.00	LT	21.00	W2-2				1		
			PROJECT TOTAL	**384**	**3,460**	**9.0**	**1**	**1**	**1**

NOTES: * LT/RT SIDES ARE GIVEN WITH RESPECT TO THE DIRECTION OF TRAFFIC. OFFSET DISTANCE IS FROM THE I-57 CENTERLINE TO THE CENTER OF THE SIGN PANEL.

CHANGEABLE MESSAGE SIGN

LOCATION STATION TO STATION	NUMBER OF SIGNS	NUMBER OF DAYS	ADDITIONAL DAYS	CHANGEABLE MESSAGE SIGN 70107025
	EACH	DAY	CAL DAY	CAL DAY
CHAMPAIGN COUNTY				
U.S. 150 OVER I-57 DETOUR				
I-72	2	8	21	58
I-74	2	8	21	58
I-57	2	8	21	58
CARDINAL ROAD DETOUR				
U.S. 150	2	244	21	530
PROJECT TOTAL				**704**

SEE DETOUR PLANS FOR APPROXIMATE LOCATIONS. 3 WEEKS NOTICE NEEDED PRIOR TO ROAD CLOSURE.

RAISED REFLECTIVE PAVEMENT MARKERS

LOCATION STATION TO STATION	SIDE	RAISED REFLECTIVE PAVEMENT MARKER 78100100 TWO-WAY AMBER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL 78300200
		EACH	EACH
CHAMPAIGN COUNTY			
STAGE 1			
U.S. 150			
141+31.00 TO 165+00.00	CL		21
STAGE 3			
U.S. 150			
148+31.00 TO 155+21.67	CL	9	
159+13.35 TO 165+00.00	CL	8	
PROJECT TOTAL		**17**	**21**

GUARDRAIL

LOCATION STATION TO STATION	SIDE	FOR INFORMATION ONLY LENGTH	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS 63000001	TRAFFIC BARRIER TERMINAL, TYPE 2 63100045	TRAFFIC BARRIER TERMINAL, TYPE 6 63100085	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT 63100167	GUARDRAIL REFLECTORS, TYPE A 78200005	TERMINAL MARKER - DIRECT APPLIED 72501000
		FOOT	FOOT	EACH	EACH	EACH	EACH	EACH
CHAMPAIGN COUNTY								
STAGE 1								
U.S. 150								
150+78.84 TO 151+28.84	RT	50.0				1		1
150+78.63 TO 155+39.17	RT						6	
151+28.63 TO 154+99.56	RT		375.0					
154+99.56 TO 155+39.16	RT	39.4			1			
158+95.82 TO 159+35.22	RT	39.4			1			
159+26.15 TO 161+97.72	RT						4	
159+35.25 TO 161+97.72	RT		262.5					
I-57								
582+16.69 TO 582+29.19	RT	12.5		1				
STAGE 2								
U.S. 150								
150+52.62 TO 151+02.62	LT	50.0				1		1
150+52.62 TO 155+08.83	LT						6	
151+02.62 TO 154+69.33	LT		362.5					
154+69.33 TO 155+08.83	LT	39.4			1			
159+10.85 TO 159+50.25	LT	39.4			1			
159+10.85 TO 162+03.06	LT						4	
159+65.55 TO 162+03.06	LT		237.5					
I-57								
582+75.35 TO 582+87.85	LT	12.5		1				
PROJECT TOTAL			**1,237.5**	**2**	**4**	**2**	**20**	**2**

FILE NAME = D570898-sht-schedule.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SCHEDULES OF QUANTITIES**	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - CWW	REVISED -			57	(10-34HB)BR-1	CHAMPAIGN	147	31
	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -					CONTRACT NO. 70B98		
Default	PLOT DATE = 5/6/2019 - 2:48:04 PM	DATE - 04/16/2019	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING

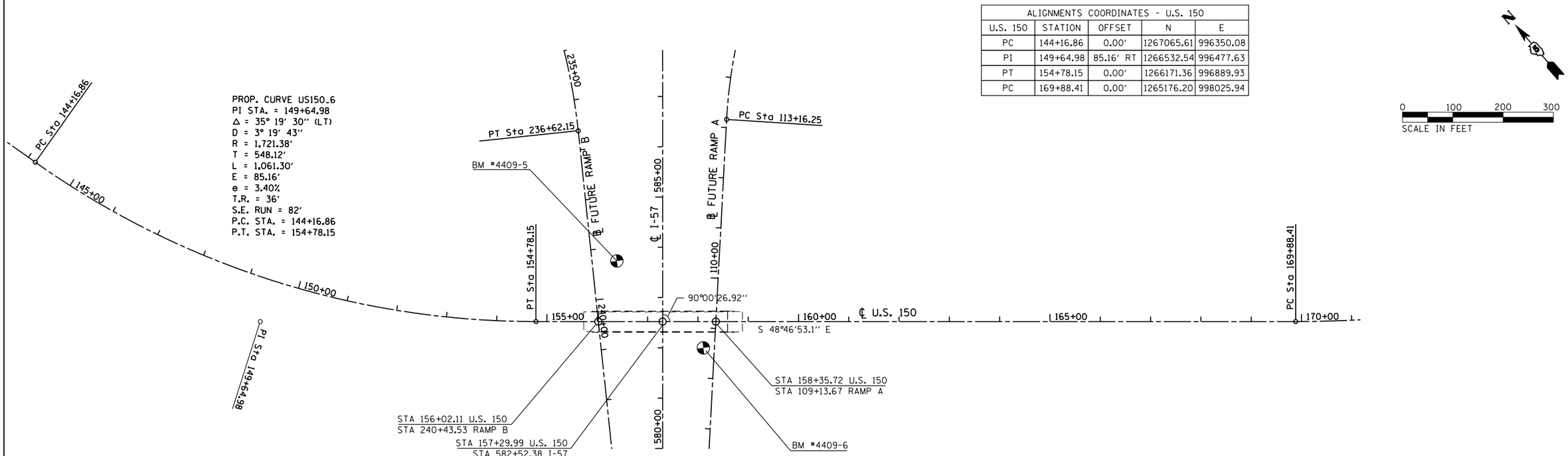
LOCATION STATION TO STATION	SIDE	DESCRIPTION	POLYUREA PAVEMENT MARKING TYPE II - LINE 4" 78008310		GROOVING FOR RECESSED PAVEMENT MARKING X7830070	
			LINE 4"		5"	
			WHITE	YELLOW	WHITE	YELLOW
			FOOT	FOOT	FOOT	FOOT
CHAMPAIGN COUNTY						
STAGE 3						
U.S. 150						
148+31.00 TO 155+21.67	CL	SKIP DASH		173		691
148+31.00 TO 155+21.67	CL	CL SOLID		691		691
149+43.00 TO 163+41.00	LT	EDGE	1,398		1,398	
150+63.65 TO 163+68.00	RT	EDGE	1,382		1,382	
155+21.67 TO 165+00.00	CL	DOUBLE SOLID		1,957		978
		COLOR SUBTOTAL	**2,780**	**2,821**	**2,780**	**2,360**
		PROJECT TOTAL	**5,601**		**5,140**	

TEMPORARY PAVEMENT MARKING

LOCATION STATION TO STATION	SIDE	DESCRIPTION	TEMPORARY PAVEMENT MARKING 7030220		TEMPORARY PAVEMENT MARKING (FOR INFORMATION ONLY)		SHORT TERM PAVEMENT MARKING 70300100	SHORT TERM PAVEMENT MARKING REMOVAL 70300150	PAVEMENT MARKING REMOVAL - GRINDING X0327979	
			LINE 4"		LINE 4"	LINE 24"	LINE 4"	LINE 4"		
			WHITE	YELLOW	WHITE	WHITE	YELLOW	YELLOW	WHITE	YELLOW
			FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT	SQ FT
CHAMPAIGN COUNTY										
STAGE 1										
U.S. 150										
148+49.00	RT	SKIP DASH AND SOLID CL								63
148+49.00 TO 150+00.00	CL	STOP BAR				11				
148+59.00 TO 164+62.00	RT	EDGE			1,603					
149+36.00 TO 163+55.00	LT	EDGE			1,419				473	
163+00.00 TO 164+50.00	CL	DOUBLE SOLID CL								100
166+84.00 TO 167+00.00	LT	STOP BAR				16				
168+30.00	LT	STOP BAR				11				
STAGE 2										
U.S. 150										
148+31.00	RT	STOP BAR				11				
148+31.00 TO 148+49.00	CL	SKIP DASH AND SOLID CL								8
148+49.00	RT	STOP BAR							22	
148+59.00 TO 152+31.30		EDGE							124	
148+91.00 TO 164+91.00	LT	EDGE			1,602					
149+43.00 TO 152+31.30		EDGE							95	
149+86.00 TO 163+68.00	RT	EDGE			1,384					
150+63.65 TO 163+68.00	RT	EDGE							461	
164+50.00 TO 165+00.00	CL	DOUBLE SOLID								33
STAGE 3										
U.S. 150										
148+31.00	RT	STOP BAR							22	
148+31.00 TO 155+21.67	CL	SKIP DASH		173						58
148+31.00 TO 155+21.67	CL	SOLID CL		691						230
148+31.00 TO 165+00.00	CL	SKIP DASH					167	55.7		
148+91.00 TO 164+91.00		EDGE							534	
149+43.00 TO 163+41.00	LT	EDGE	1,398						466	
149+86.00 TO 163+68.00	RT	EDGE	1,382						922	
155+21.67 TO 165+00.00	CL	DOUBLE SOLID CL		1,957						652
166+84.00 TO 167+00.00	LT	STOP BAR							32	
168+30.00	LT	STOP BAR							22	
		COLOR SUBTOTAL	**2,780**	**2,821**					**3,173**	**1,144**
		PROJECT TOTAL	**5,601**		**6,008**	**49**	**167**	**56**	**4,318**	

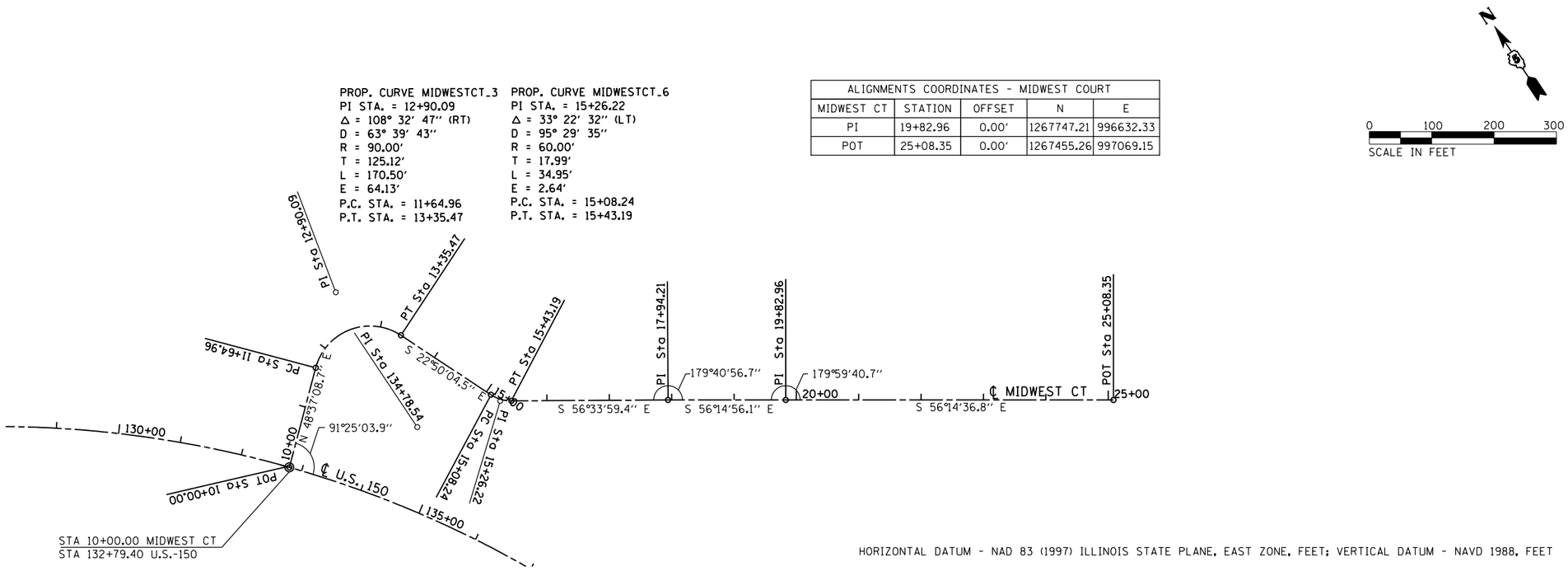
FILE NAME = D570B98-sht-schedule.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**SCHEDULES OF QUANTITIES**			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - CWW	REVISED -					57	(10-34HB)BR-1	CHAMPAIGN	147	32
	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -							CONTRACT NO. 70B98		
Default	PLOT DATE = 5/6/2019 - 2:48:09 PM	DATE - 04/16/2019	REVISED -		SCALE: N.T.S.	SHEET OF SHEETS	STA. TO STA.			ILLINOIS	FED. AID PROJECT	

ALIGNMENTS COORDINATES - U.S. 150				
U.S. 150	STATION	OFFSET	N	E
PC	144+16.86	0.00′	1267065.61	996350.08
PI	149+64.98	85.16′ RT	1266532.54	996477.63
PT	154+78.15	0.00′	1266171.36	996889.93
PC	169+88.41	0.00′	1265176.20	998025.94



HORIZONTAL DATUM - NAD 83 (1997) ILLINOIS STATE PLANE, EAST ZONE, FEET; VERTICAL DATUM - NAVD 1988, FEET

ALIGNMENTS COORDINATES - MIDWEST COURT				
MIDWEST CT	STATION	OFFSET	N	E
PI	19+82.96	0.00′	1267747.21	996632.33
POT	25+08.35	0.00′	1267455.26	997069.15



HORIZONTAL DATUM - NAD 83 (1997) ILLINOIS STATE PLANE, EAST ZONE, FEET; VERTICAL DATUM - NAVD 1988, FEET

FILE NAME = D570898-sht-ATB.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 200.0000 ′ / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:48:34 PM	DATE - 04/16/2019	REVISED -

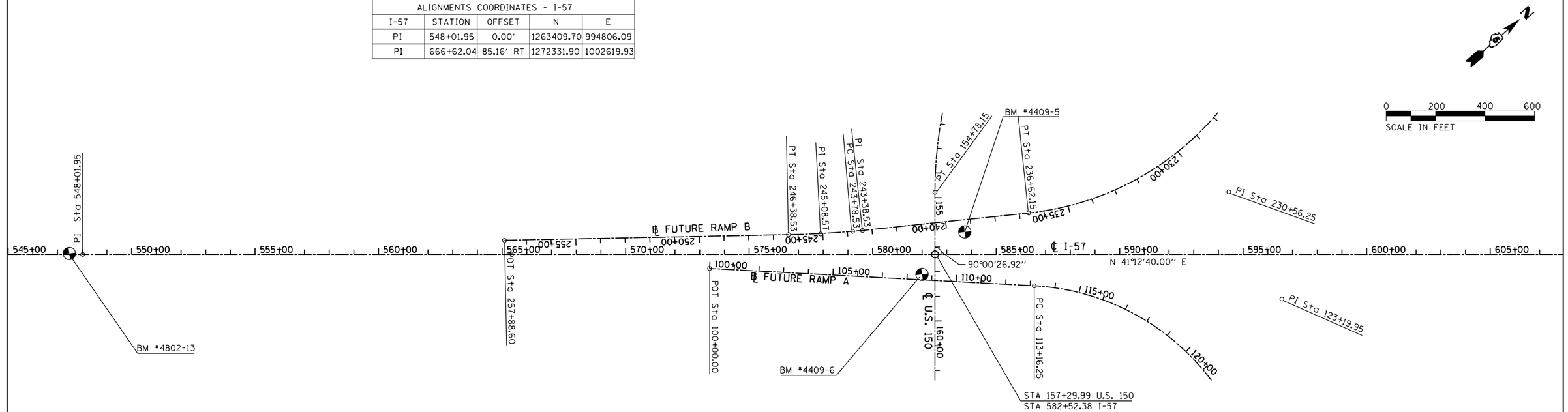
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS

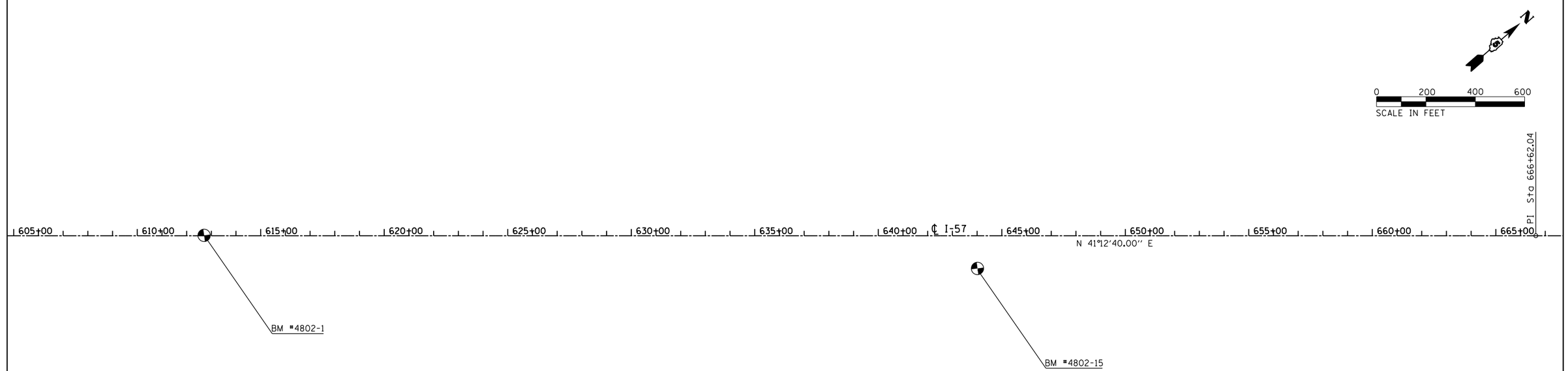
SCALE: 1″ = 100′ | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	33
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

ALIGNMENTS COORDINATES - I-57				
I-57	STATION	OFFSET	N	E
PI	548+01.95	0.00'	1263409.70	994806.09
PI	666+62.04	85.16' RT	1272331.90	1002619.93



HORIZONTAL DATUM - NAD 83 (1997) ILLINOIS STATE PLANE, EAST ZONE, FEET; VERTICAL DATUM - NAVD 1988, FEET



HORIZONTAL DATUM - NAD 83 (1997) ILLINOIS STATE PLANE, EAST ZONE, FEET; VERTICAL DATUM - NAVD 1988, FEET

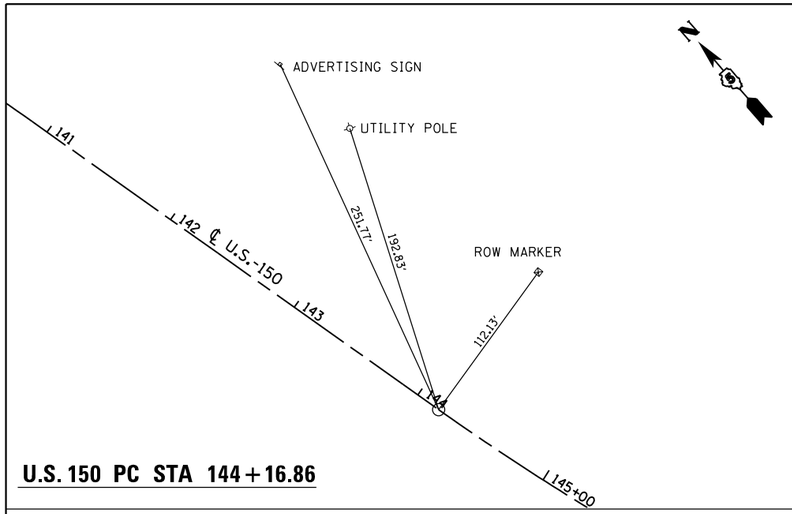
FILE NAME = D570898-sht-ATB.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 200.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:48:35 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

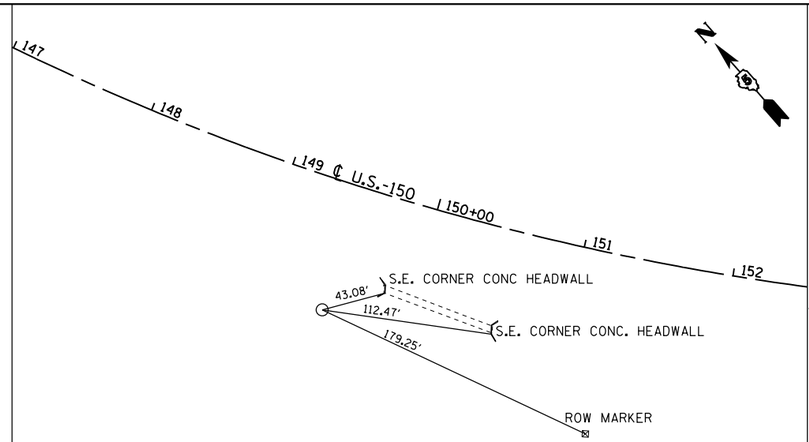
ALIGNMENTS

SCALE: 1" = 200' | SHEET OF SHEETS | STA. | TO STA.

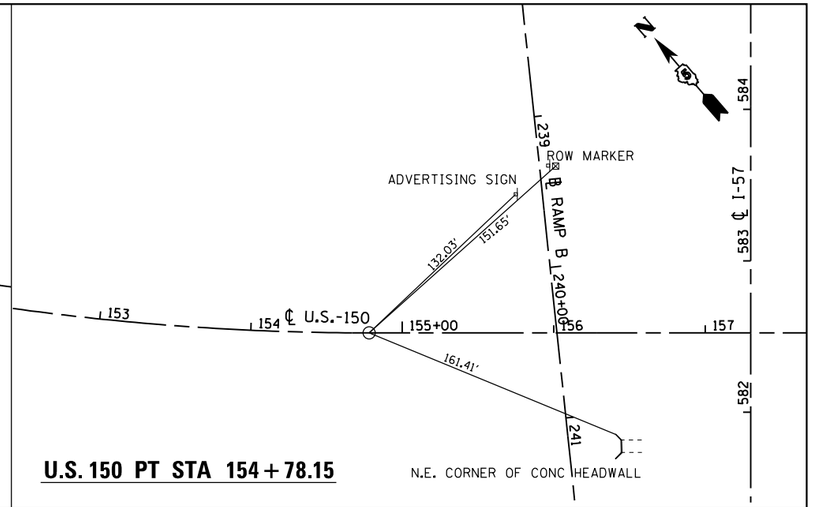
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	34
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



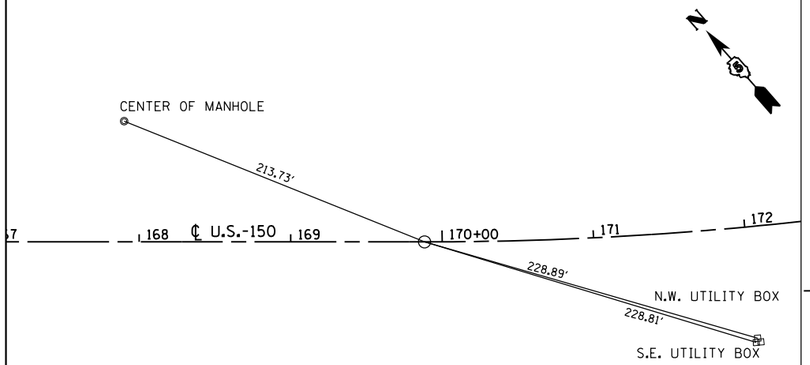
U.S. 150 PC STA 144 + 16.86



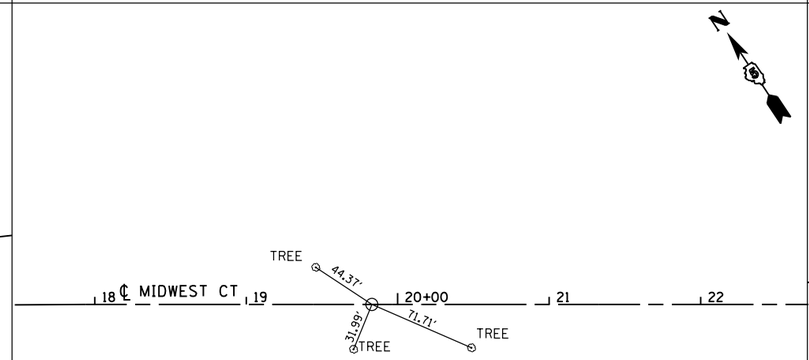
U.S. 150 PI STA 149 + 64.98



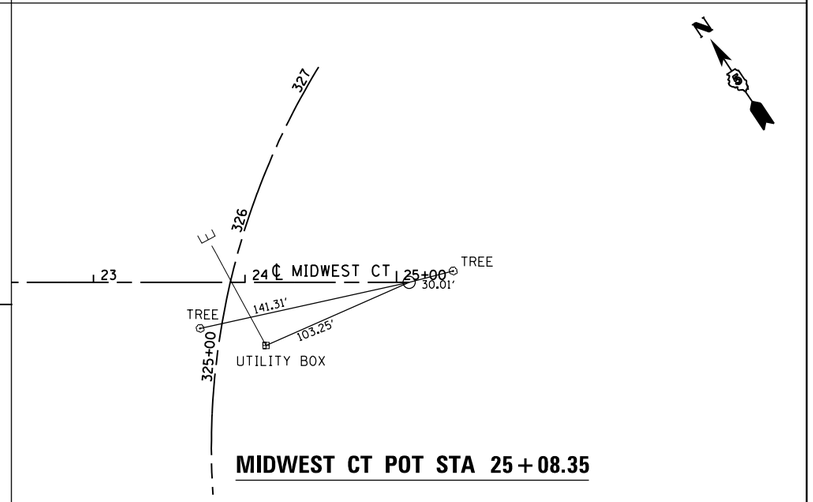
U.S. 150 PT STA 154 + 78.15



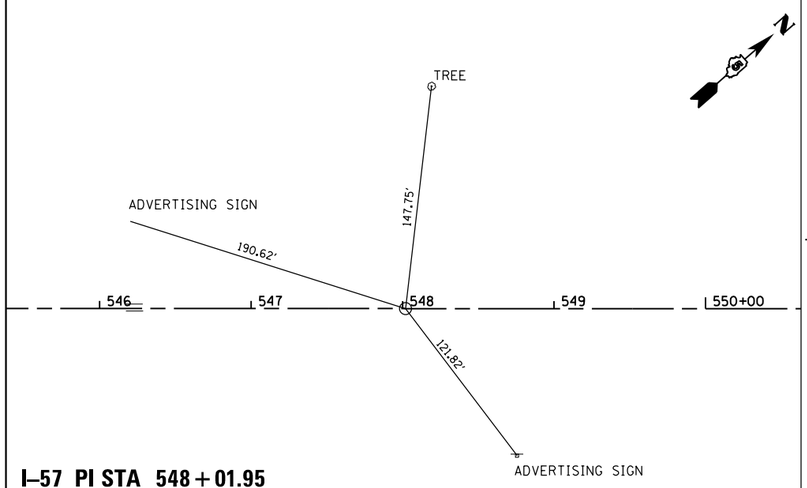
U.S. 150 PC STA 169 + 88.41



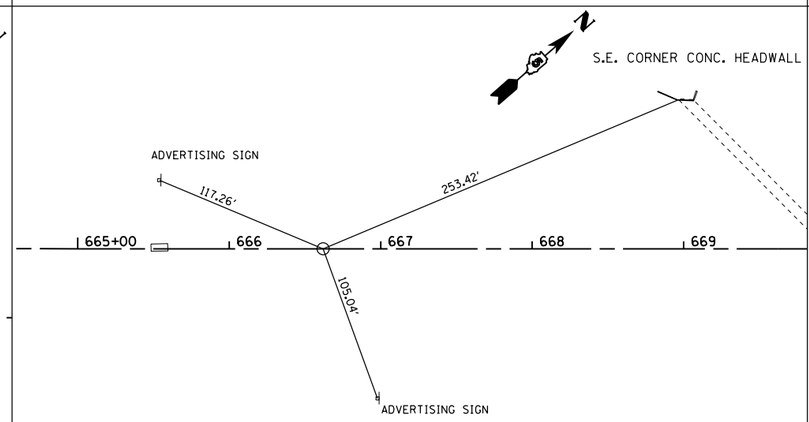
MIDWEST CT PI STA 19 + 82.96



MIDWEST CT POT STA 25 + 08.35



I–57 PI STA 548 + 01.95



I–57 PI STA 666 + 62.04

BENCHMARKS

BM #4409-5 CHISELED SQUARE ON TOP OF THE CONCRETE BASE OF THE FIRST LIGHT POLE NORT OF U.S. 150 ON THE WEST SIDE OF I-57. APPROXIMATE I-57 STA 583+73 EL 767.92

BM #4409-6 CHISELED SQUARE ON TOP OF THE EAST CONCRETE FOUNDATION FOR AN OVERHEAD SIGN FOR THE NORTH BOUND TRAFFIC APPROXIMATE I-57 STA 582+00 EL 773.35

BM #4802-1 CHISELED SQUARE IN CENTER OF OVERHEAD SIGN FOUNDATION IN THE MEDIAN OF FAI 57. STATION 612+70.80, 1.46' LT EL 764.855

BM #4802-13 CHISELED SQUARE ON TOP OF NORTH END OF NORHT CRASH BARREL PAD IN MEDIAN OF FAI 57. STATION 547+47.94, 3.59' LT EL 770.183

BM #4802-15 CHISELED SQUARE ON WEST SIDE OF WEST LEG OF LODGING SIGN FOUNDATION. FAI 57 STATION 644+01.61, 132.51' RT EL 766.499

VERTICAL DATUM - NAVD 1988, FEET

FILE NAME = D570B98-sht-ATB.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 200.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:48:35 PM	DATE - 04/16/2019	REVISED -

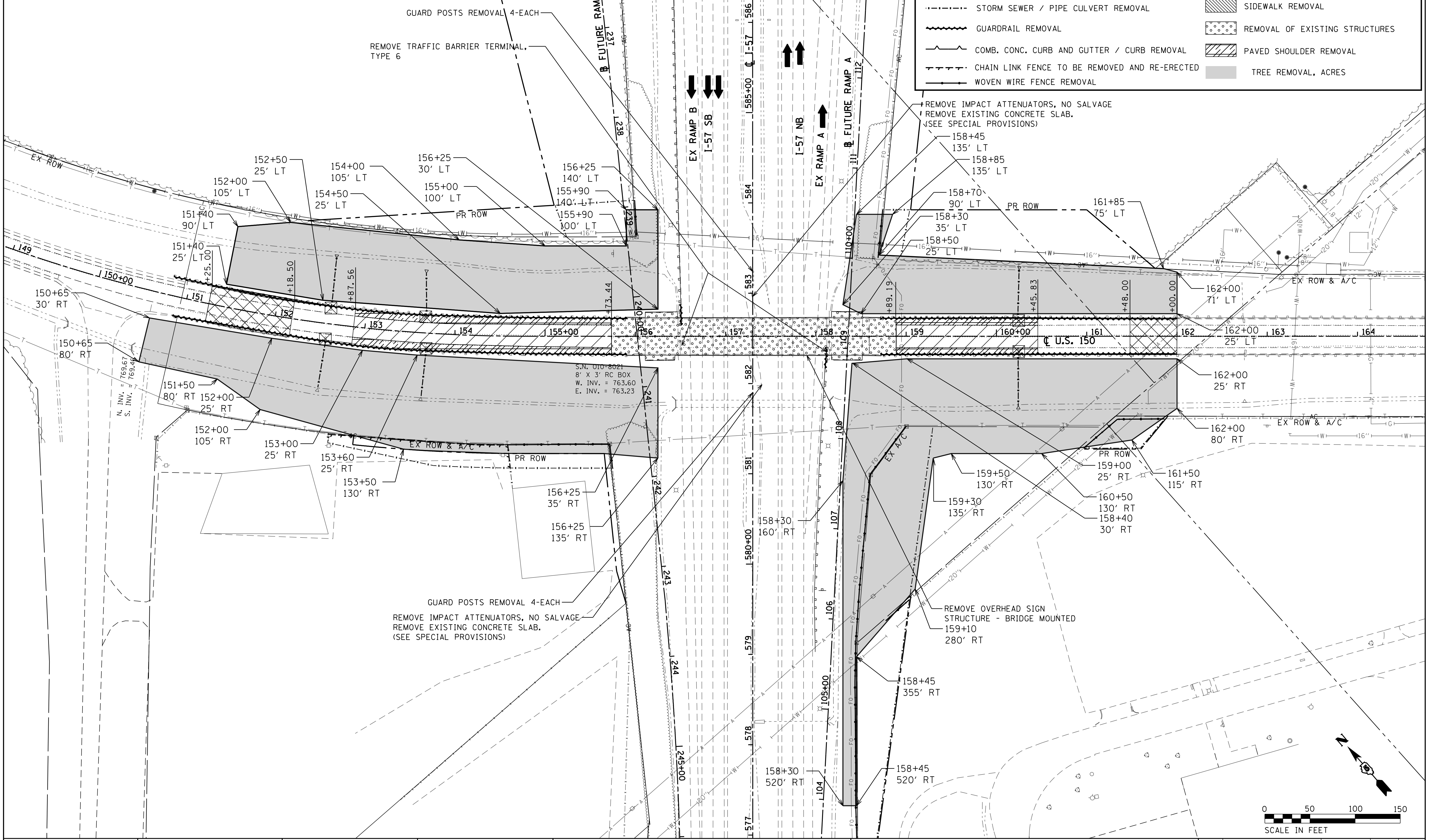
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TIES & BENCHMARKS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

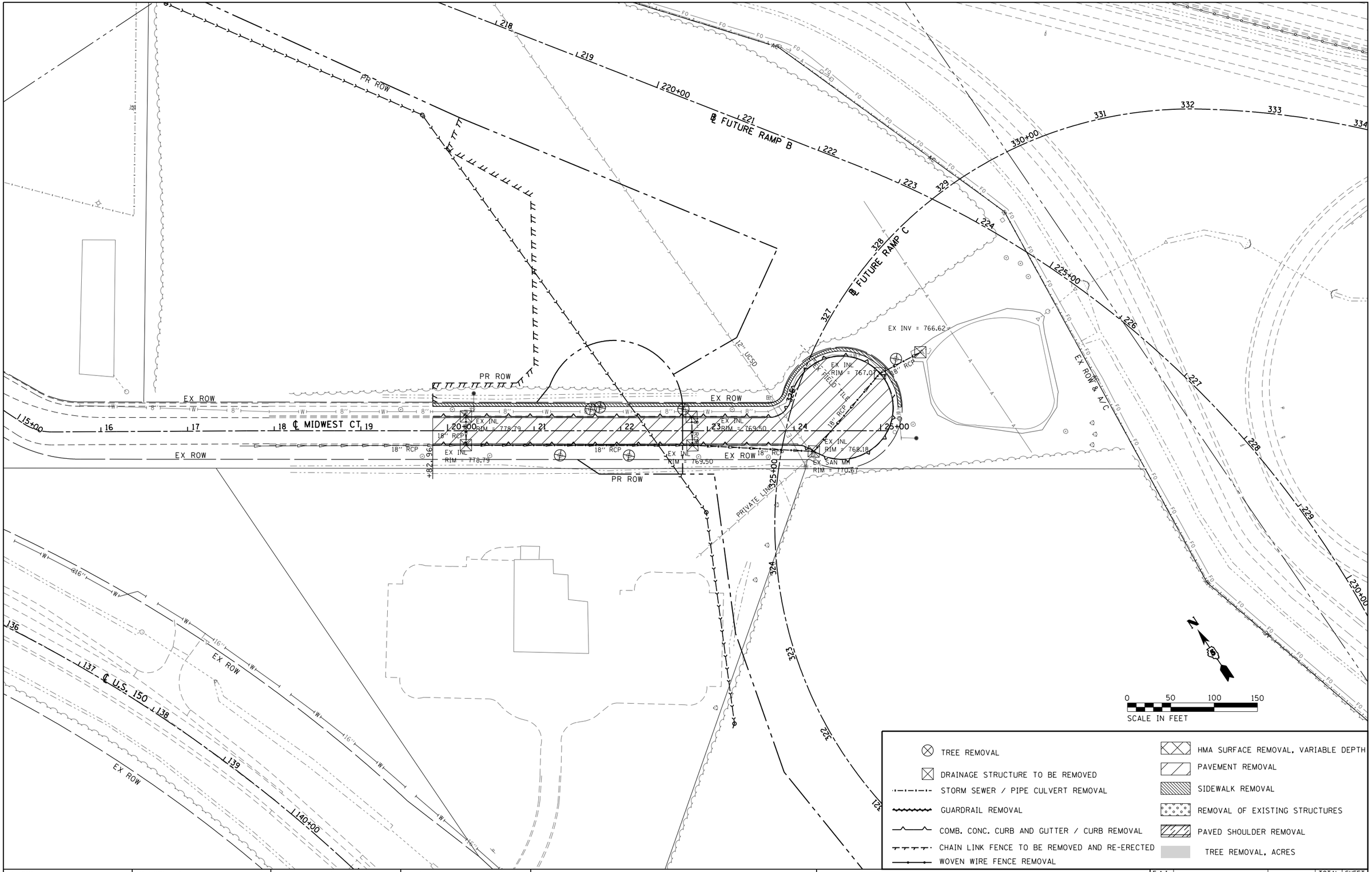
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	35
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

NOTES:
1. HOT-MIX ASPHALT SHOULDER CURB REMOVAL IS INCLUDED IN PAVED SHOULDER REMOVAL.
2. APPROACH SLAB REMOVAL SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES.



TREE REMOVAL
DRAINAGE STRUCTURE TO BE REMOVED
STORM SEWER / PIPE CULVERT REMOVAL
GUARDRAIL REMOVAL
COMB. CONC. CURB AND GUTTER / CURB REMOVAL
CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED
WOVEN WIRE FENCE REMOVAL
HMA SURFACE REMOVAL, VARIABLE DEPTH
PAVEMENT REMOVAL
SIDEWALK REMOVAL
REMOVAL OF EXISTING STRUCTURES
PAVED SHOULDER REMOVAL
TREE REMOVAL, ACRES
GUARD POSTS REMOVAL 4-EACH
REMOVE TRAFFIC BARRIER TERMINAL, TYPE 6
REMOVE IMPACT ATTENUATORS, NO SALVAGE
REMOVE EXISTING CONCRETE SLAB.
(SEE SPECIAL PROVISIONS)
REMOVE OVERHEAD SIGN STRUCTURE - BRIDGE MOUNTED
159+10 280' RT
℄ FUTURE RAMP B
EX RAMP B
I-57 SB
℄ I-57
I-57 NB
EX RAMP A
℄ FUTURE RAMP A
℄ U.S. 150
EX ROW
PR ROW
EX ROW & A/C
EX A/C
S.N. 010-8021
8' X 3' RC BOX
W. INV. = 763.60
E. INV. = 763.23
N. INV. = 769.67
S. INV. = 769.46
152+50 25' LT
152+00 105' LT
151+40 90' LT
151+40 25' LT
150+65 30' RT
150+65 80' RT
151+50 80' RT
152+00 25' RT
152+00 105' RT
153+00 25' RT
153+60 25' RT
153+50 130' RT
154+00 105' LT
154+50 25' LT
155+00 100' LT
156+25 30' LT
156+25 140' LT
155+90 140' LT
155+90 100' LT
156+25 35' RT
156+25 135' RT
158+30 160' RT
158+30 520' RT
158+45 135' LT
158+85 135' LT
158+70 90' LT
158+30 35' LT
158+50 25' LT
161+85 75' LT
162+00 71' LT
162+00 25' LT
162+00 25' RT
162+00 80' RT
159+50 130' RT
159+00 25' RT
159+30 135' RT
160+50 130' RT
158+40 30' RT
161+50 115' RT
158+45 355' RT
158+45 520' RT
SCALE IN FEET
0 50 100 150

FILE NAME = D570B98-sht-removal.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL PLAN U.S. 150 & I-57	F.A.I. RTE. 57	SECTION (10-34HB)BR-1	COUNTY CHAMPAIGN	TOTAL SHEETS 147	SHEET NO. 36
Default	PLOT SCALE = 100.0000 ' / in.	DRAWN - CWW	REVISED -		SCALE: 1" = 50' SHEET OF SHEETS STA. 149+00.00 TO STA. 164+00.00			CONTRACT NO. 70B98		
	PLOT DATE = 6/4/2019 - 9:53:55 AM	CHECKED - BJE	REVISED -				ILLINOIS FED. AID PROJECT			
		DATE - 04/16/2019	REVISED -							



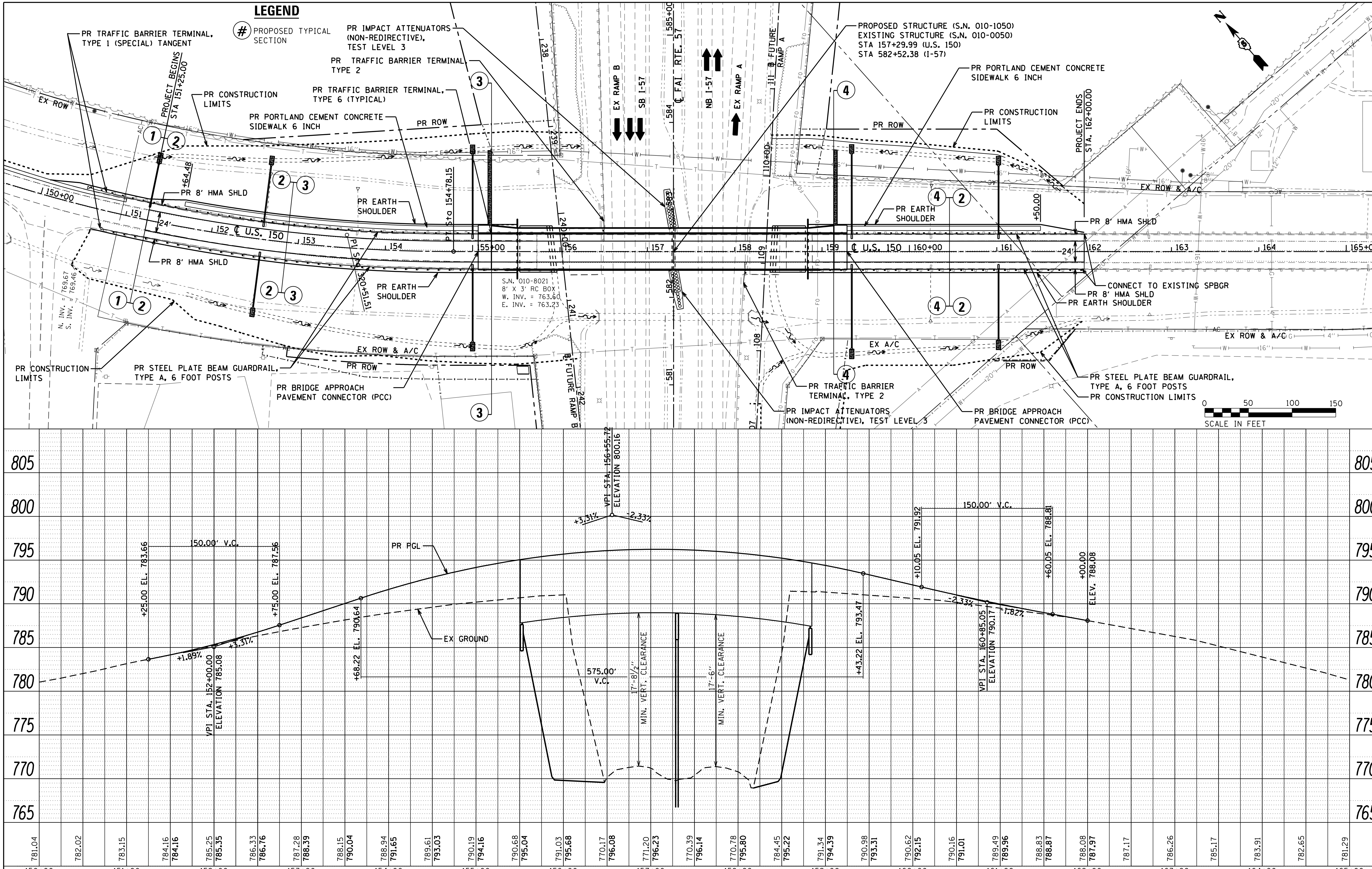
FILE NAME = D570898-sht-removal.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:48:57 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
MIDWEST COURT

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 15+00.00 | TO STA. 25+08.35

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	37
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			


LEGEND
PROPOSED TYPICAL SECTION
PR TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
PROJECT BEGINS STA 151+25.00
PR CONSTRUCTION LIMITS
PR TRAFFIC BARRIER TERMINAL, TYPE 6 (TYPICAL)
PR PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH
PR IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3
PR TRAFFIC BARRIER TERMINAL TYPE 2
PROPOSED STRUCTURE (S.N. 010-1050)
EXISTING STRUCTURE (S.N. 010-0050)
STA 157+29.99 (U.S. 150)
STA 582+52.38 (I-57)
PR PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH
PR CONSTRUCTION LIMITS
PROJECT ENDS STA. 162+00.00
EX ROW
PR ROW
EX RAMP B
SB I-57
℄ FAI RTE. 57
NB I-57
EX RAMP A
FUTURE RAMP A
PR 8' HMA SHLD
PR EARTH SHOULDER
℄ U.S. 150
S.N. 010-8021
8' X 3' RC BOX
W. INV. = 763.60
E. INV. = 763.23
N. INV. = 769.67
S. INV. = 769.46
CONNECT TO EXISTING SPBGR
EX ROW & A/C
EX A/C
PR STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
PR BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)
PR TRAFFIC BARRIER TERMINAL, TYPE 2
PR IMPACT ATTENUATORS (NON-REDIRECTIVE), TEST LEVEL 3
FUTURE RAMP B
SCALE IN FEET
0 50 100 150
PR PGL
EX GROUND
150.00' V.C.
+25.00 EL. 783.66
+75.00 EL. 787.56
VPI STA. 152+00.00 ELEVATION 785.08
+1.89%
+3.31%
+68.22 EL. 790.64
VPI STA. 156+55.72 ELEVATION 800.16
-2.33%
575.00' V.C.
17'-8½" MIN. VERT. CLEARANCE
17'-6" MIN. VERT. CLEARANCE
+43.22 EL. 793.47
+10.05 EL. 791.92
+60.05 EL. 788.81
VPI STA. 160+85.05 ELEVATION 790.17
-1.82%
+00.00 ELEV. 788.08
150+00 151+00 152+00 153+00 154+00 155+00 156+00 157+00 158+00 159+00 160+00 161+00 162+00 163+00 164+00 165+00
765 770 775 780 785 790 795 800 805

FILE NAME = D570898-sht-plnprf.dgn	USER NAME = bemery	DESIGNED - MKK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
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	PLOT DATE = 6/4/2019 - 9:42:44 AM	DATE - 04/16/2019	REVISED -	

PLAN & PROFILE
U.S. 150

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 150+00.00 TO STA.165+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	38

CONTRACT NO. 70B98

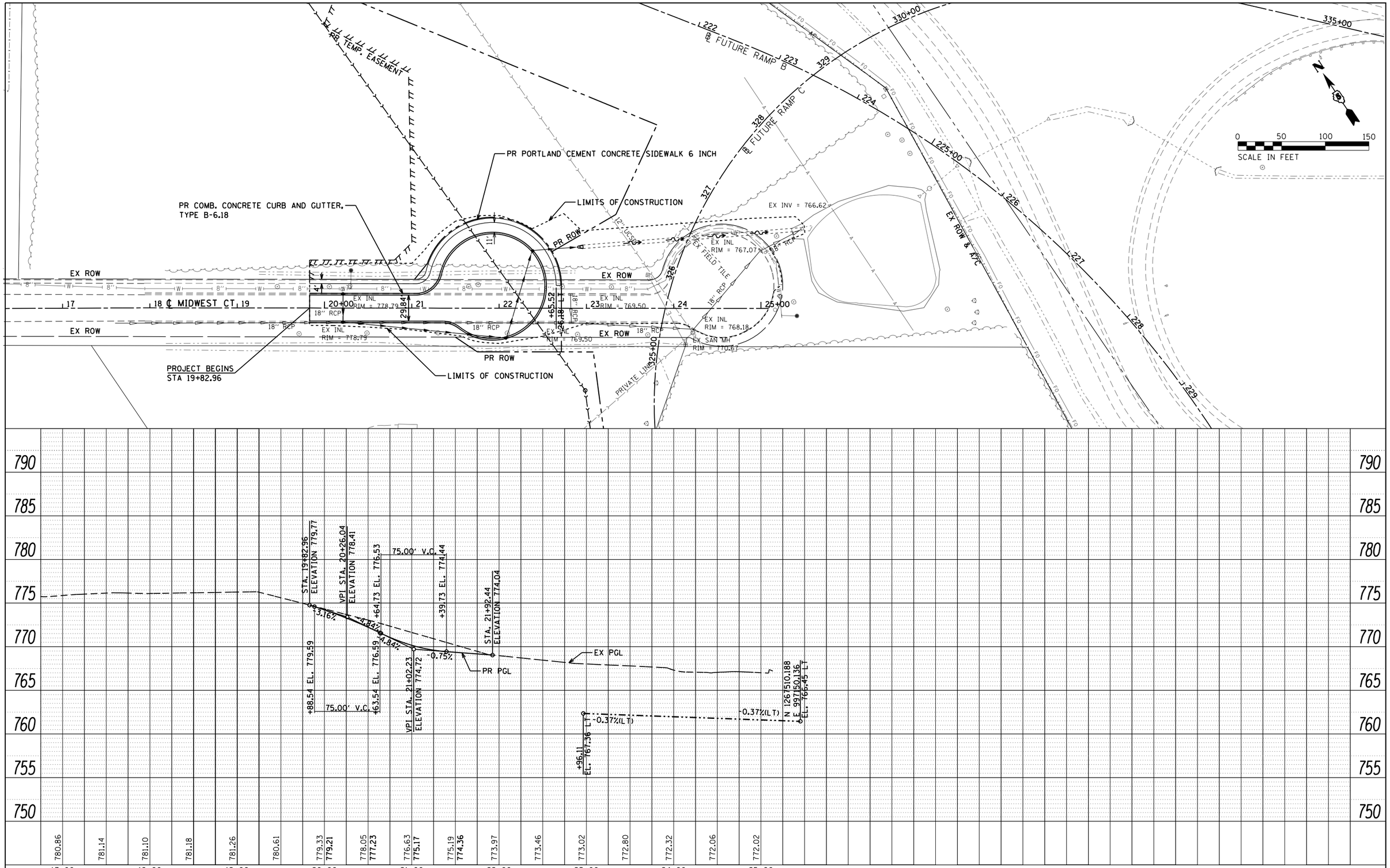
ILLINOIS FED. AID PROJECT

PLAN

DATE	BY	
		SURVEYED
		PLOTTED
		DESIGNED CHECKED
		ALIGNMENT CHECKED
		RT. OF WAY CHECKED
		CADD FILE NAME
		NOTE BOOK
		NO.

PROFILE

DATE	BY	
		SURVEYED
		PLOTTED
		DESIGNED CHECKED
		GRADE CHECKED
		S.M. NOTED
		STRUCTURE NOTATIONS CHKD
		NOTE BOOK
		NO.



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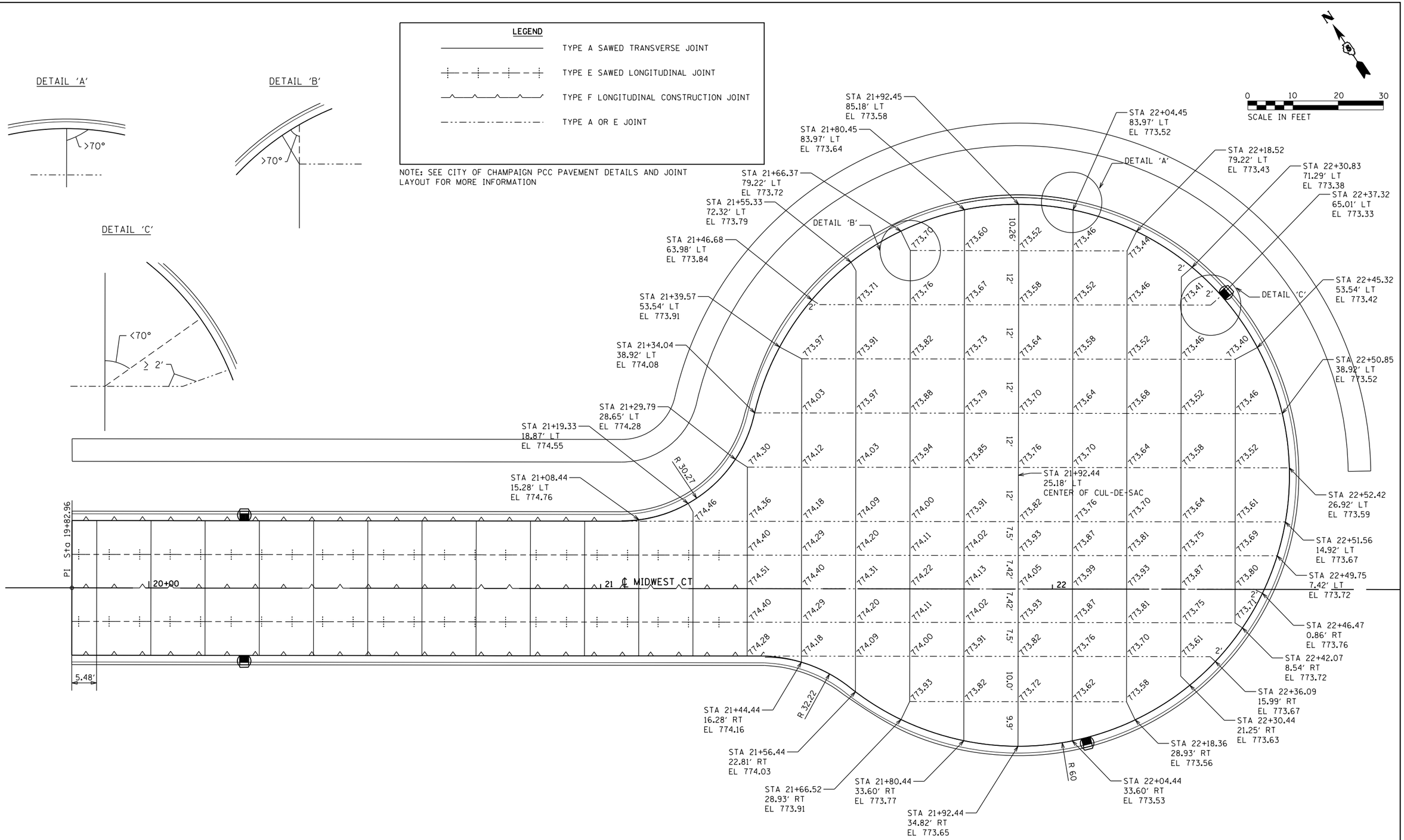
	PLOT DATE = 5/6/2019 - 2:49:42 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
MIDWEST COURT

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 17+00.00 TO STA. 25+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	39
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



NOTES:
1. ALL TRANSVERSE JOINTS ARE SPACED AT 15' UNLESS OTHERWISE NOTED.
2. ELEVATIONS SHOWN AT CURB AND GUTTER LOCATIONS ARE EDGE OF PAVEMENT ELEVATIONS.

FILE NAME = D570898-sht-jointing.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
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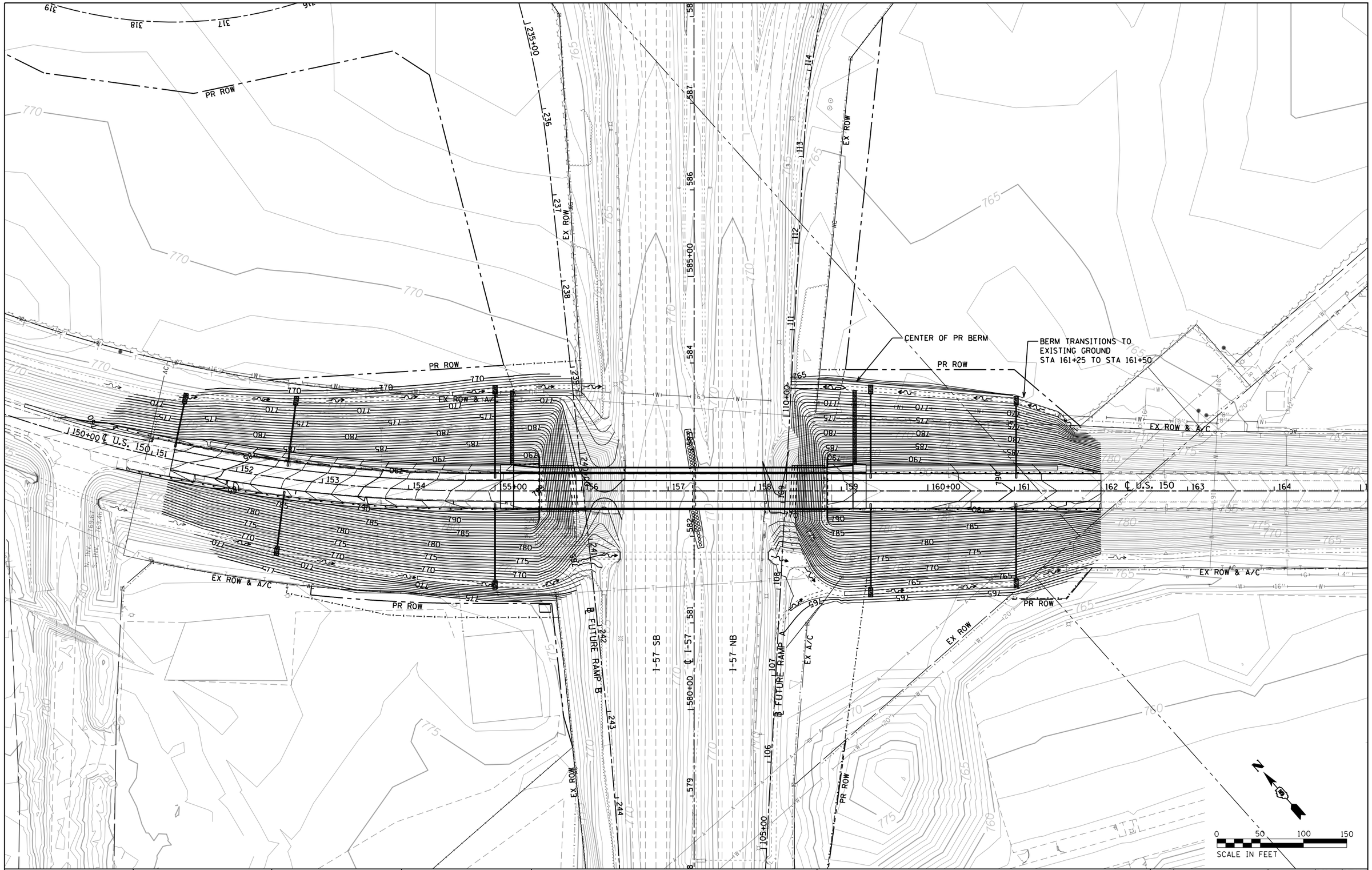
	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:50:05 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CUL-DE-SAC DETAIL
MIDWEST COURT

SCALE: 1" = 10' | SHEET OF SHEETS | STA. 19+82.96 TO STA. 22+55.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	40
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



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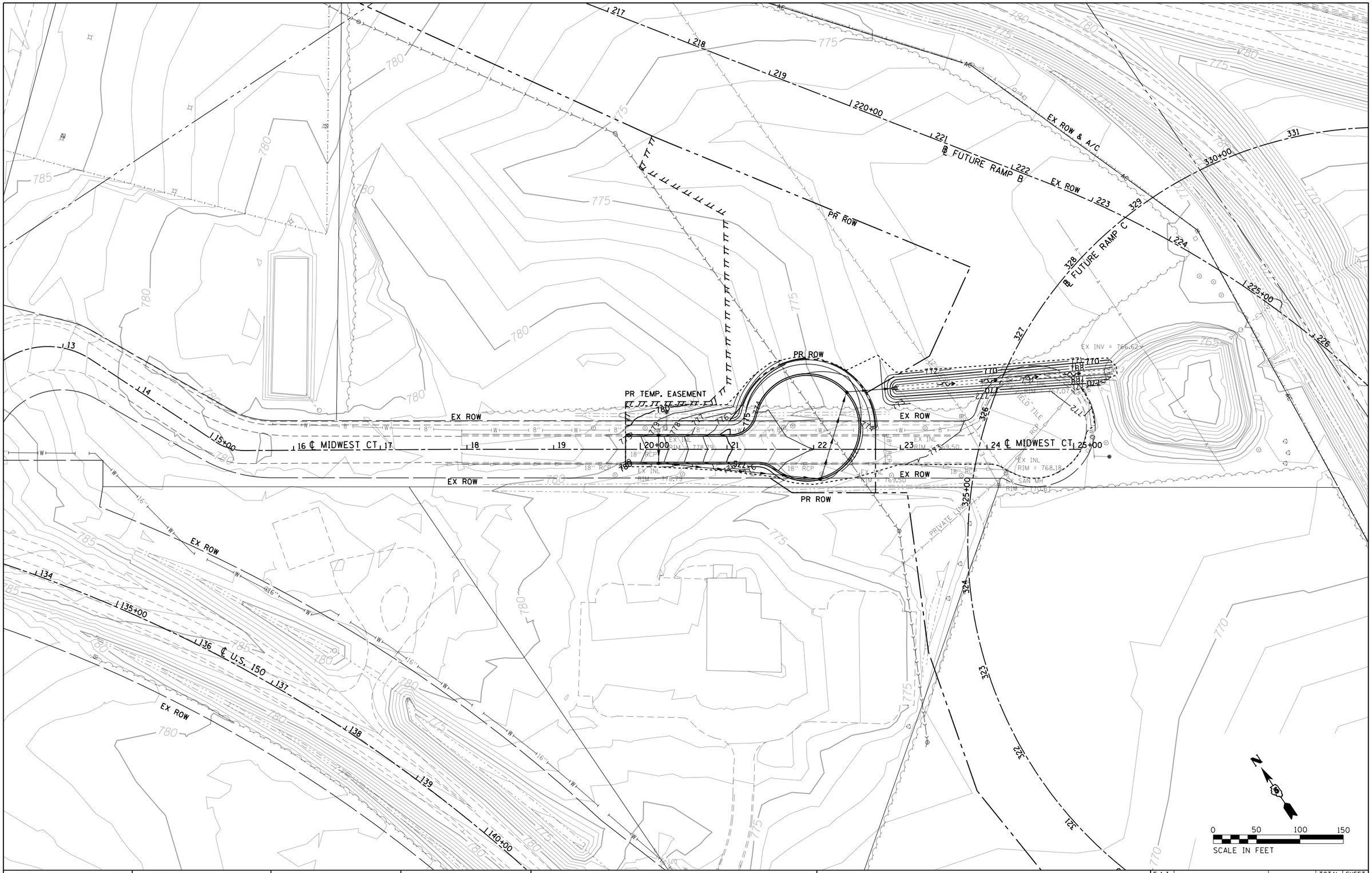
	PLOT DATE = 6/4/2019 - 10:12:14 AM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN
U.S. 150 OVER I-57

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 150+00.00 | TO STA. 164+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	41
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



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Default	PLOT DATE = 5/6/2019 - 2:50:28 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN
MIDWEST COURT

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 13+00.00 | TO STA. 25+08.35

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	42
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC OF THIS PROJECT WITH OTHER PROJECTS IN ADJACENT SECTIONS. SEE TRAFFIC CONTROL SPECIAL PROVISIONS FOR COORDINATION REQUIREMENTS.

2. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AS REQUIRED OR AS DIRECTED BY THE ENGINEER THROUGHOUT THE CONSTRUCTION ZONE FOR THE PERIOD OF THE CONSTRUCTION. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED DRAINAGE WORK.

3. ALL ADVANCE "ROAD WORK" SIGNS, W20-1 SERIES, AS SHOWN ON THE PLANS, REFERENCED IN THE STANDARDS OR DIRECTED BY THE ENGINEER, SHALL BE EQUIPPED WITH A TYPE B MONODIRECTIONAL FLASHING LIGHT AND AN 18" X 18" ORANGE WARNING FLAG. THE COST OF THIS WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS FOR TRAFFIC CONTROL AND PROTECTION.

4. LOCATIONS OF TRAILER MOUNTED FULL MATRIX PORTABLE CHANGEABLE SIGNS SHALL BE DETERMINED BY THE ENGINEER.

5. ALL TRAFFIC CONTROL DEVICES (BARRELS/BARRICADES/PANELS) SHALL BE IN NEW OR LIKE NEW CONDITION. WHEN THE DEVICES BECOME WORN, DIRTY, FADED, OR OTHERWISE DEEMED NO LONGER IN LIKE NEW CONDITION BY THE ENGINEER, THE DEVICE WILL BE REFURBISHED, CLEANED, OR REPLACED.

6. ANY SIGNS THAT ARE TO BE IN PLACE FOR MORE THAN FOUR DAYS SHALL BE POST MOUNTED WHEN FEASIBLE AS DETERMINED BY THE ENGINEER.

7. ALL DRUMS, VERTICAL PANELS AND BARRICADES PLACED IMMEDIATELY ADJACENT TO THE EDGE OF TRAVELED WAY SHALL BE EQUIPPED WITH STEADY BURN MONO-DIRECTIONAL LAMPS.

8. ROUGH GROOVED SURFACE AND FRESH OIL SIGNS ARE REQUIRED WHERE APPLICABLE.

9. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO ATTEND A TRAFFIC CONTROL MEETING TO DISCUSS THE EXACT SCHEDULING OF THE TRAFFIC STAGES AND ANY INTERMEDIATE CHANGES NECESSARY. IF AN ALTERNATE TRAFFIC PATTERN IS REQUIRED WITHIN THIS CONTRACT, THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC DEVIANCE PLAN FOR APPROVAL BY THE ENGINEER AND THE DISTRICT. FOR ADDITIONAL INFORMATION REGARDING COORDINATION SEE STANDARD SPECIFICATION ARTICLE 701.04.

10. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY INCIDENTS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OR CHANNELIZATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES FROM THE TIME OF NOTIFICATION BY THE ENGINEER TO ANY REQUEST MADE BY THE ENGINEER FOR CORRECTION, IMPROVEMENT, OR MODIFICATION OF THE MAINTENANCE OF TRAFFIC CONTROL DEVICES. FAILURE TO RESPOND WITHIN THE ABOVE LIMIT WILL RESULT IN A PENALTY OF $2500 PER DAY PER OCCURRENCE, WHENEVER THE ENGINEER DETERMINES THAT THE CONTRACTOR OR HIS SUBCONTRACTOR HAS NOT COMPLIED.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING CONSTRUCTION ACCESS POINTS. THE PROPOSED LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE USE.

12. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE II BARRICADE USED - ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL. THIS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.

13. TEMPORARY BARRIER WALL SHALL BE INSTALLED AS DELINEATED ON THE MAINTENANCE OF TRAFFIC PLAN SHEETS AND TYPICAL SECTIONS PRIOR TO THE START OF SUBSEQUENT STAGE WORK.

14. UNLESS OTHERWISE APPROVED BY THE ENGINEER, ALL TEMPORARY CONCRETE BARRIER SHALL BE PLACED UNDER TEMPORARY LANE CLOSURES.

15. ALL TEMPORARY BARRIER FLARES SHALL TRANSITION AWAY FROM TRAFFIC AT THE APPROACH END AT 12:1 OR FLATTER. ALL EXPOSED TEMPORARY BARRIER WALL TERMINALS SHALL BE PROTECTED WITH TEMPORARY ATTENUATION DEVICES ON THE APPROACH END.

16. EXCAVATION, INCLUDING SHOULDER BASE COURSE, FOR CONSTRUCTION OF TEMPORARY PAVEMENT SHALL BE PAID AS EARTH EXCAVATION REGARDLESS OF SOIL TYPE OR SUITABILITY.

17. EMBANKMENT MATERIAL FOR TEMPORARY PAVEMENT WIDENING TO ACCOMMODATE A MAXIMUM 1:2 SLOPE SHALL BE INCLUDED IN THE COST FOR EARTH EXCAVATION.

18. HMA SURFACE COURSE SHALL BE CONSTRUCTED AT THE CONCLUSION OF THE LAST STAGE OF CONSTRUCTION UTILIZING LANE CLOSURES IN ACCORDANCE WITH IDOT STANDARDS. NO INSTALLATION OF SURFACE COURSE SHALL BE CONSTRUCTED PRIOR TO THE FINAL STAGE EXCEPT AS PROVIDED HEREIN OR WITHOUT WRITTEN AUTHORIZATION OF THE ENGINEER.

19. THE CONTRACTOR SHALL RELOCATE OR COVER ALL EXISTING, TEMPORARY, AND PROPOSED SIGNS THAT CONFLICT WITH THE CURRENT CONSTRUCTION STAGE. SIGNS THAT DO NOT CONFLICT WITH THE CURRENT CONSTRUCTION STAGE AND ARE NOT MARKED FOR RELOCATION SHALL REMAIN AS PREVIOUSLY CONFIGURED. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT COST OF TRAFFIC CONTROL AND PROTECTION.

20. ALL SIGNS SHALL BE MOUNTED IN LOCATIONS AND ELEVATIONS THAT PROVIDE AN UNOBSTRUCTED VIEW TO THE ROADWAY USERS.

21. A SUGGESTED SEQUENCE OF DRAINAGE INSTALLATIONS AND REMOVALS IS DESCRIBED IN THE STAGING PLANS TO PROVIDE TEMPORARY DRAINAGE THROUGHOUT EACH STAGE OF CONSTRUCTION. THE SUGGESTED DRAINAGE AND REMOVAL SEQUENCE SHALL BE VERIFIED BY THE CONTRACTOR. FOR DETAILED INFORMATION REGARDING THE INSTALLATION OF THE PROPOSED DRAINAGE SYSTEM, THE DRAINAGE PLAN AND PROFILE SHEETS SHALL BE REFERENCED.

22. CHANGEABLE MESSAGE SIGNS REQUIRED PER STANDARDS ARE NOT TO BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION.

23. SIGN W21-1(0)-48 IS REQUIRED WHEN WORKERS ARE PRESENT. LOCATION SHALL BE ACCORDING TO APPLICABLE HIGHWAY STANDARD OR AS DETERMINED BY THE ENGINEER.

SUGGESTED SEQUENCE OF OPERATIONS

PRE-STAGE A : WIDEN EXISTING SHOULDER ON U.S. 150. PLACE PROTECTIVE SHIELD AND PLACE TEMPORARY CONCRETE BARRIER ON I-57.

STAGE 1: REMOVE/CONSTRUCT EASTBOUND PAVEMENT AND BRIDGE ON U.S. 150. REMOVE/CONSTRUCT PAVEMENT ON MIDWEST COURT.

STAGE 2: REMOVE/CONSTRUCT WESTBOUND PAVEMENT AND BRIDGE ON U.S. 150.

STAGE 3: COMPLETE BRIDGE CLOSURE POUR AND PLACE SURFACE COURSE ON U.S. 150.

MAINTENANCE OF TRAFFIC INDEX OF SHEETS

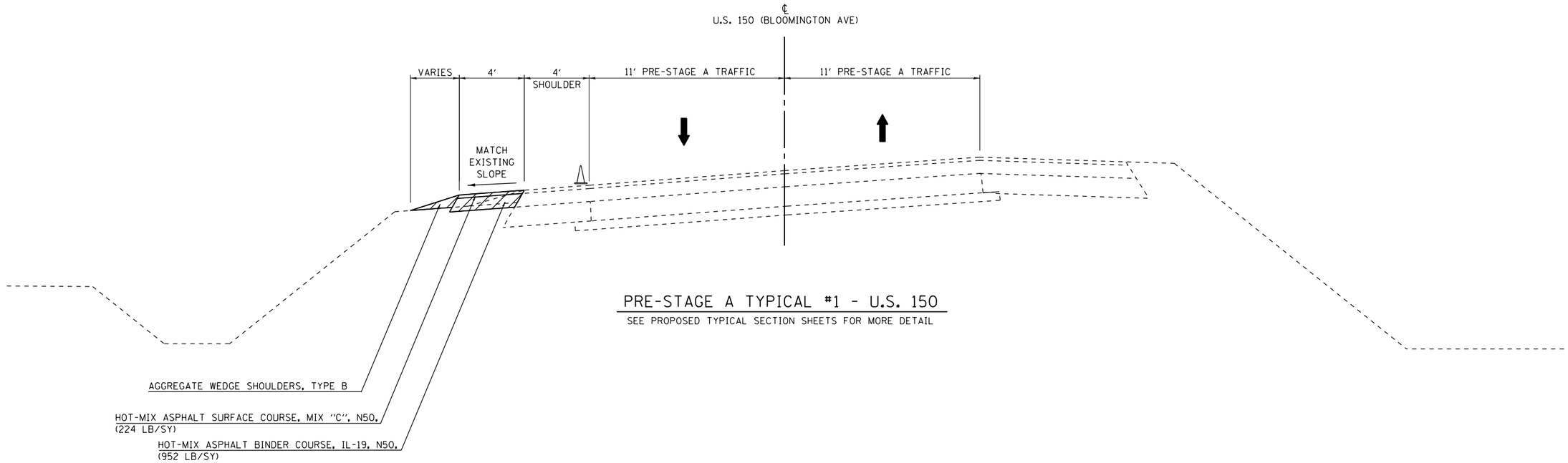
FILE NAME = D570898-sht-MOT-gennote.dgn Default	USER NAME = bemery	DESIGNED - BJE	REVISED -
		DRAWN - BJE	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - KRC	REVISED -
	PLOT DATE = 5/6/2019 - 2:50:50 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
GENERAL NOTES & INDEX OF SHEETS

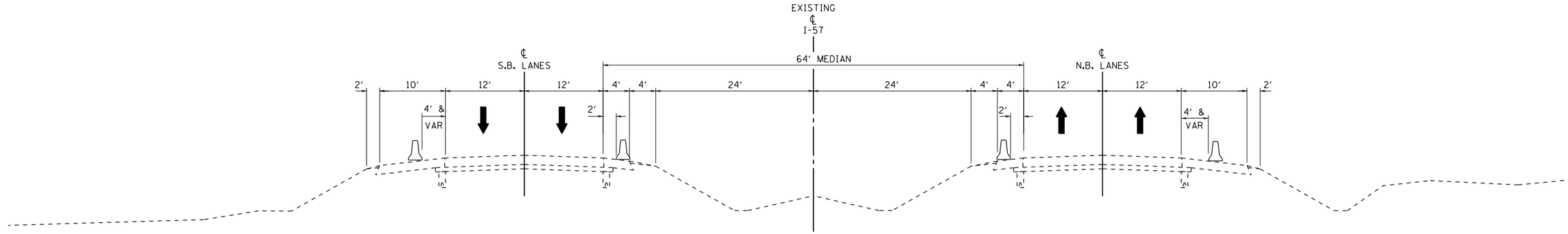
SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	43
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		



PRE-STAGE A TYPICAL #1 - U.S. 150

SEE PROPOSED TYPICAL SECTION SHEETS FOR MORE DETAIL



PRE-STAGE A TYPICAL #2 - I-57

SEE TRAFFIC CONTROL AND PROTECTION (SPECIAL) DETAIL

PRE-STAGE A

TRAFFIC

U.S. 150 - MAINTAIN TRAFFIC IN EXISTING LANE CONFIGURATIONS. UTILIZE HIGHWAY STANDARD 701201 AS NEEDED TO WIDEN EXISTING SHOULDER.

I-57 - MAINTAIN TRAFFIC IN EXISTING LANE CONFIGURATIONS.

ROADWAY CONSTRUCTION

U.S. 150 - WIDEN EXISTING SHOULDER.

I-57 - PLACE TEMPORARY CONCRETE BARRIER. SEE TRAFFIC CONTROL AND PROTECTION (SPECIAL) DETAIL SHEET AND SPECIAL PROVISIONS.

STAGE GENERAL NOTES

TWO-WAY TRAFFIC SHALL REMAIN OPEN DURING NON-WORKING HOURS.

NO OPEN HOLES SHALL BE ALLOWED OVERNIGHT.

PRIMARY IDOT STANDARDS THIS STAGE

(SEE SPECIAL PROVISIONS FOR ADDITIONAL APPLICABLE STANDARDS)

701001, 701006, 701400, 701401, 701501, 701901

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- TEMPORARY CONCRETE BARRIER WALL
- VERTICAL PANEL, POST MOUNTED
- TYPE II BARRICADE WITH STEADY BURNING LIGHT
- DRUM WITH STEADY BURNING LIGHT
- CONE, DRUM, OR BARRICADE

FILE NAME = D570B98-sht-MOT-PreStageA.dgn	USER NAME = bemery	DESIGNED - BJE	REVISED -
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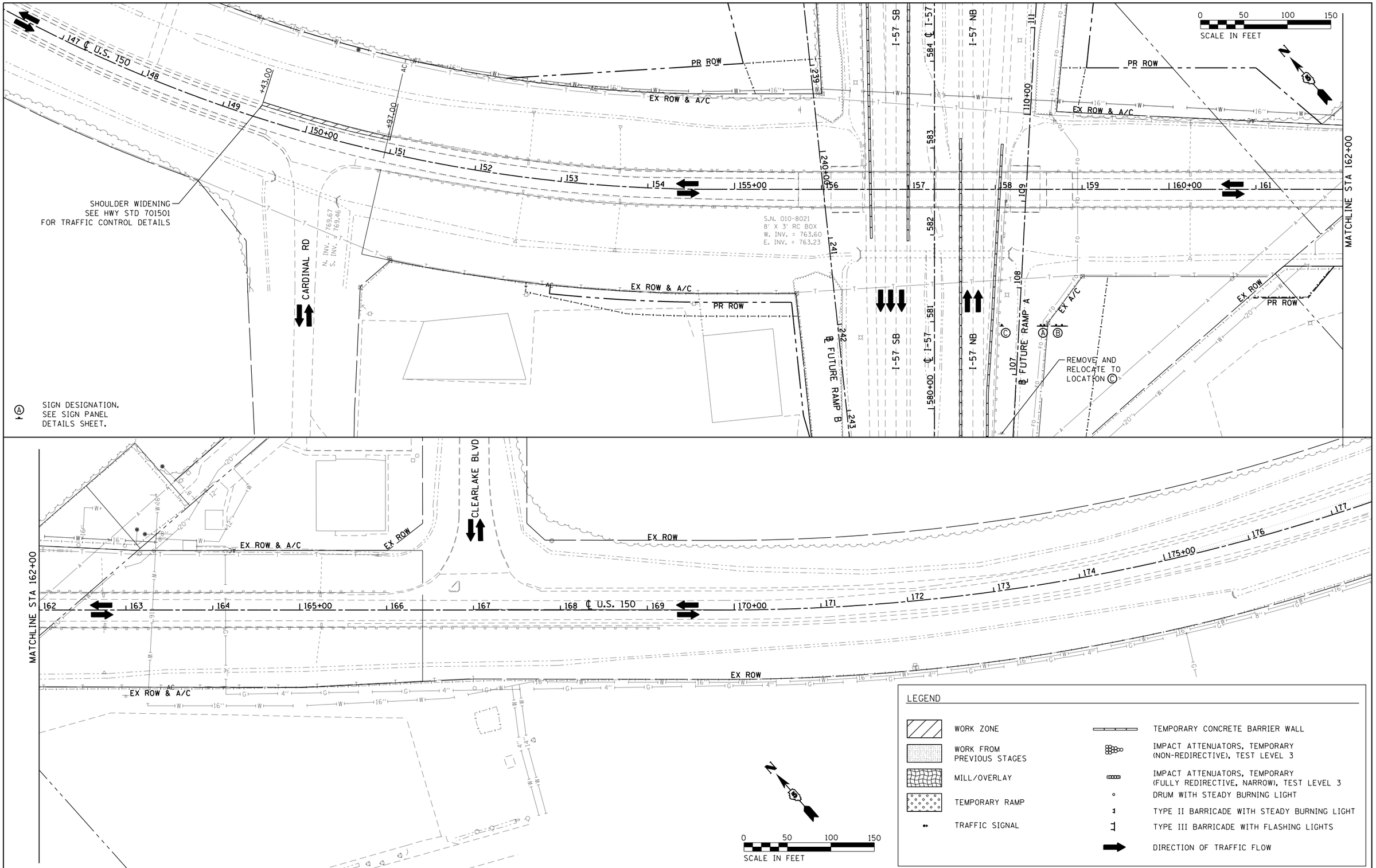
Default	PLOT DATE = 5/6/2019 - 2:51:13 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
U.S. 150 OVER I-57 PRE-STAGE A

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	44
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



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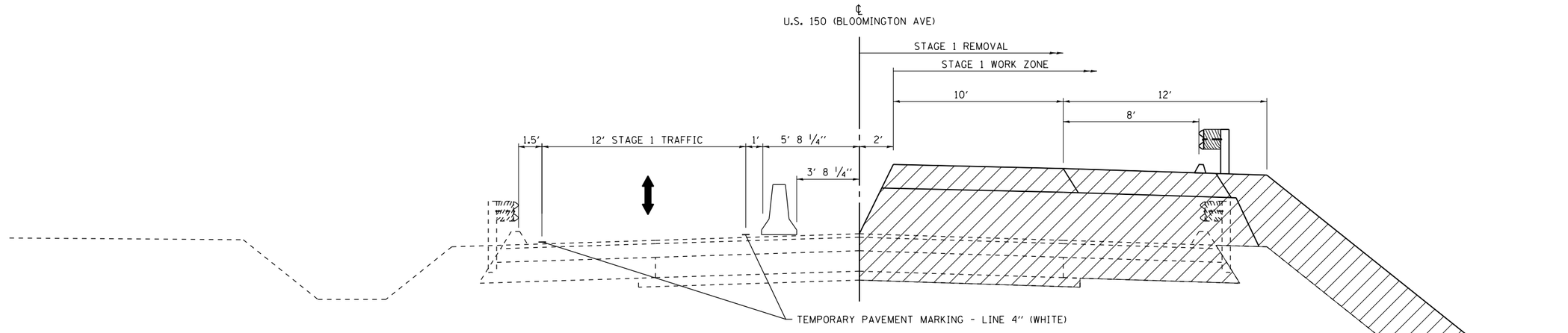
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
U.S. 150 OVER I-57 PRE-STAGE A

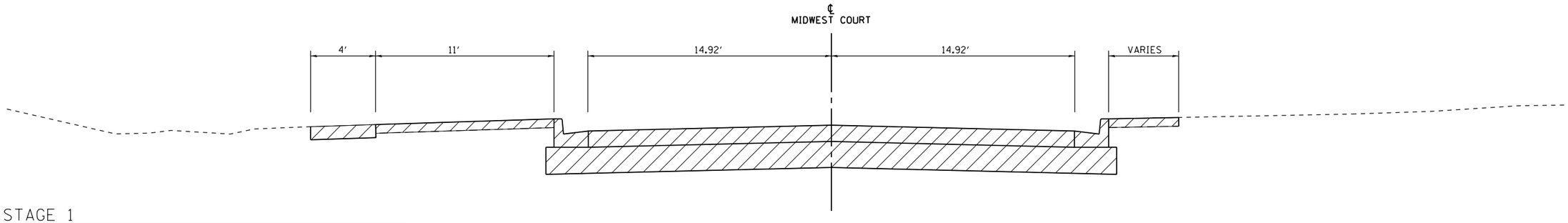
SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	45
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



STAGE 1 TYPICAL #1 - U.S. 150

SEE PROPOSED TYPICAL SECTION SHEETS FOR MORE DETAIL



STAGE 1 TYPICAL #2 - MIDWEST COURT

SEE PROPOSED TYPICAL SECTION SHEETS FOR MORE DETAIL

STAGE 1

TRAFFIC

U.S. 150 - SHIFT TRAFFIC NORTH AND PROVIDE ONE 12′ TRAVEL LANE, UTILIZING ALTERNATING ONE-WAY OPERATIONS. TRAFFIC CONTROL DEVICES NOT SHOWN IN THESE PLANS SHALL FOLLOW HIGHWAY STANDARD 701321.

MIDWEST COURT - ROAD SHALL BE CLOSED TO THRU TRAFFIC PAST THE ENTRANCE TO MIDWEST UNDERGROUND TECHNOLOGY, INC.

CARDINAL ROAD - LOCAL ROAD CLOSURE. SEE DETOUR PLANS FOR SIGNING. SHALL FOLLOW DISTRICT 5 DETAIL 70200000.

ROADWAY CONSTRUCTION

U.S. 150 - REMOVE EXISTING EASTBOUND PAVEMENT AND CONSTRUCT PROPOSED EASTBOUND EMBANKMENT AND PAVEMENT. SURFACE COURSE TO BE CONSTRUCTED IN STAGE 3.

MIDWEST COURT - REMOVE EXISTING PAVEMENT AND CONSTRUCT PROPOSED PAVEMENT. UPON COMPLETION OF PAVEMENT CONSTRUCTION, OPEN ROADWAY TO TRAFFIC.

SEE PROPOSED TYPICAL SECTION SHEETS FOR DETAILED INFORMATION.

STAGE GENERAL NOTES

SEE PAVEMENT PROFILE TRANSITIONS DETAIL.

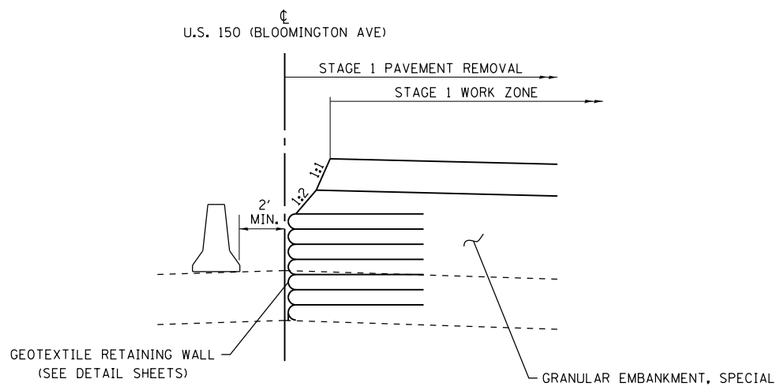
SEE STRUCTURE PLANS FOR BRIDGE STAGING.

USE I-57 DETOUR PLANS FOR TRAFFIC DURING BEAM REMOVAL AND REPLACEMENT OPERATIONS.

PRIMARY IDOT STANDARDS THIS STAGE

(SEE SPECIAL PROVISIONS FOR ADDITIONAL APPLICABLE STANDARDS)

701001, 701006, 701011, 701206, 701301, 701301, 701321, 701400, 701401, 701411, 701501, 701901, D5-70200000



GEOTEXTILE RETAINING WALL

STA 152+87.56 TO STA 155+50.67
STA 158+84.35 TO STA 160+45.83

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- TEMPORARY CONCRETE BARRIER WALL
- VERTICAL PANEL, POST MOUNTED
- TYPE II BARRICADE WITH STEADY BURNING LIGHT
- DRUM WITH STEADY BURNING LIGHT
- CONE, DRUM, OR BARRICADE

FILE NAME = D570898-sht-MOT-Stage1.dgn Default	USER NAME = bemery	DESIGNED - BJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC PLAN U.S. 150 OVER I-57 STAGE 1
		DRAWN - BJE	REVISED -		
	PLOT SCALE = 100.0000 ′ / in.	CHECKED - KRC	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.
	PLOT DATE = 5/6/2019 - 2:51:35 PM	DATE - 04/16/2019	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	46
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		

SHOULDER RUMBLE STRIP REMOVAL
LT STA. 149+36.00 TO STA. 149+80.00

TEMPORARY PAVEMENT MARKING
LINE - 4" WHITE (TYP)

147 ℄ U.S. 150

148

149

150+00

151

152

153

154

155+00

156

157

158

159

160+00

161

162+00

MATCHLINE STA 162+00

MATCHLINE STA 162+00

163

164

165+00

166

℄ U.S. 150

167

168

169

170+00

171

172

173

174

175+00

176

177

+49.00
+59.00
+99.00
+24.00
+36.00
+75.00 18.7' LT
+25.00 4.7' LT
+25.00 4.3' RT
+75.00 6.7' LT
+24.64
+31.30
+46.34
+69.76
+88.32
+11.66
+21.67
+13.35
+22.33
+45.67
+90.33
+13.67
+33.10
+39.77
+80.00
+30.00
+25.00 4.7' LT
+75.00 18.7' LT
+55.00
+75.00 6.7' LT
+25.00 4.3' RT
+51.00 0.0' ℄
+62.00
+85.00
+00.00
+55.00

1:12 TAPER
1:12 TAPER
1:12 TAPER
1:12 TAPER

12' LANE
12' LANE

14' MINIMUM CLEAR WIDTH

I-57 SB
℄ I-57
I-57 NB

238
239
240+00
241
242
580+00
581
582
583
584
107
108
109
110+00
111

℄ FUTURE RAMP B
℄ FUTURE RAMP A

EX ROW & A/C
PR ROW
EX ROW

STOP BAR
SEE HWY STD 701321
FOR TRAFFIC CONTROL DETAILS

ROAD CLOSED
R11-2

CARDINAL RD

ROAD CONSTRUCTION AHEAD
W20-1103

NO TURN ON RED
R10-11a

CLEARLAKE BLVD

STOP BAR

SHOULDER RUMBLE STRIP REMOVAL
LT STA. 162+75.00 TO STA. 163+55.00

TEMPORARY PAVEMENT MARKING LINE - 4" WHITE (TYP)

0 50 100 150
SCALE IN FEET

N

LEGEND

- WORK ZONE
- WORK FROM PREVIOUS STAGES
- MILL/OVERLAY
- TEMPORARY RAMP
- TRAFFIC SIGNAL
- SHOULDER RUMBLE STRIP REMOVAL
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- DRUM WITH STEADY BURNING LIGHT
- TYPE II BARRICADE WITH STEADY BURNING LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC FLOW

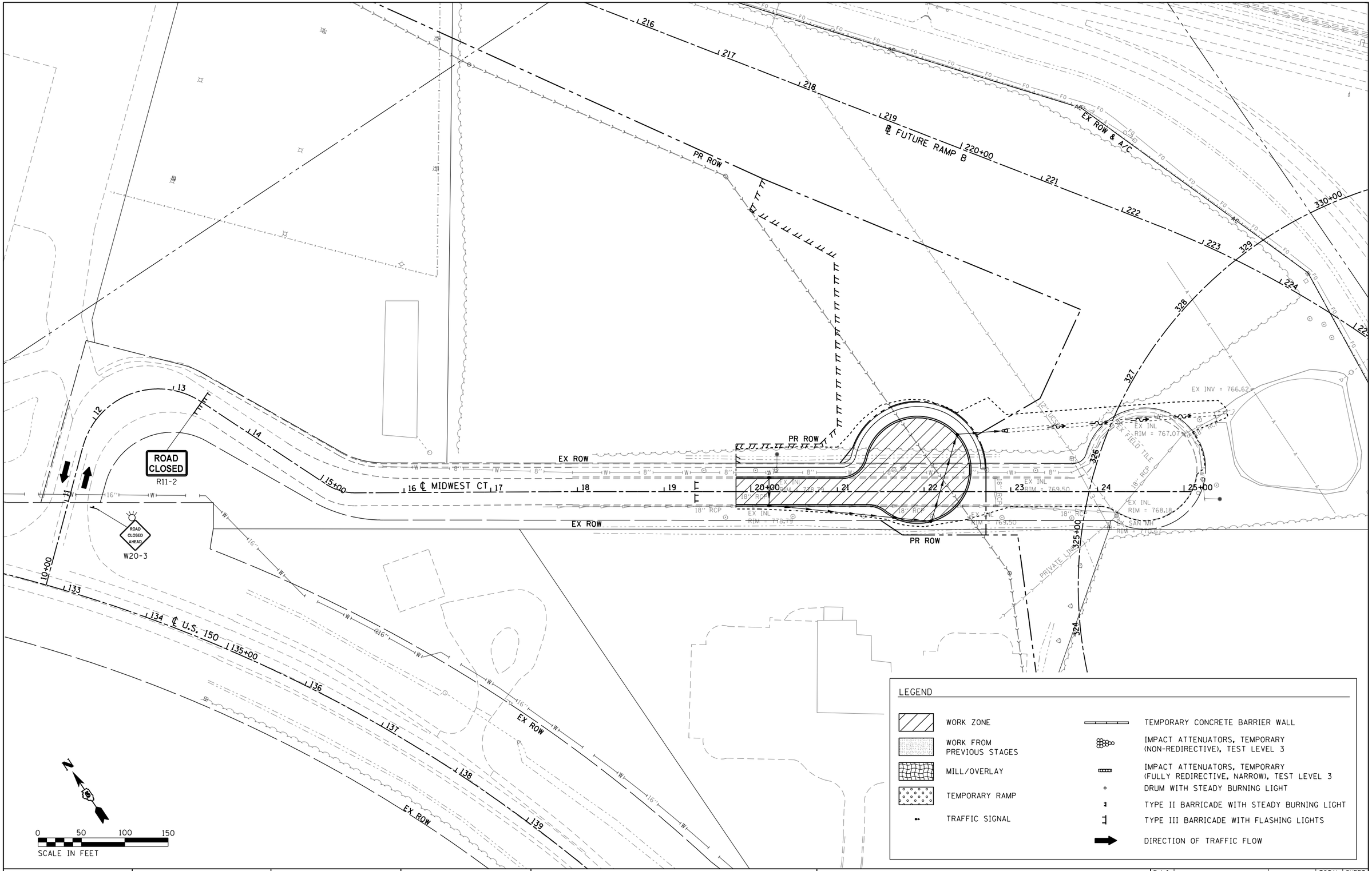
FILE NAME = D570898-sht-MOT-Stage1.dgn Default	USER NAME = bemery	DESIGNED - BJE	REVISED -
		DRAWN - BJE	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - KRC	REVISED -
	PLOT DATE = 6/4/2019 - 9:38:40 AM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
U.S. 150 OVER I-57 STAGE 1

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 147+00.00 | TO STA. 177+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	47
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



LEGEND

- WORK ZONE
- WORK FROM PREVIOUS STAGES
- MILL/OVERLAY
- TEMPORARY RAMP
- TRAFFIC SIGNAL
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- DRUM WITH STEADY BURNING LIGHT
- TYPE II BARRICADE WITH STEADY BURNING LIGHT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC FLOW

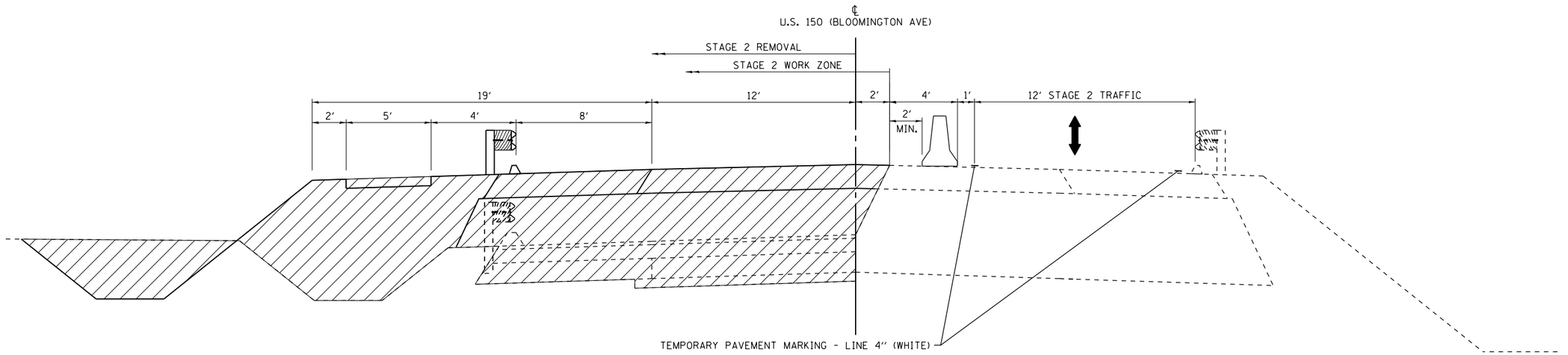
FILE NAME = D570B98-sht-MOT-Stage1.dgn	USER NAME = bemery	DESIGNED - BJE	REVISED -
		DRAWN - BJE	REVISED -
Default	PLOT SCALE = 100.0000 ' / in.	CHECKED - KRC	REVISED -
	PLOT DATE = 5/6/2019 - 2:51:36 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
MIDWEST COURT STAGE 1

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 10+00.00 TO STA. 25+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	48
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



STAGE 2 TYPICAL #1 - U.S. 150

SEE PROPOSED TYPICAL SECTION SHEETS FOR MORE DETAIL

STAGE 2

TRAFFIC

U.S. 150 - SHIFT TRAFFIC SOUTH AND PROVIDE ONE 12′ TRAVEL LANE, UTILIZING ALTERNATING ONE-WAY OPERATIONS. TRAFFIC CONTROL DEVICES NOT SHOWN IN THESE PLANS SHALL FOLLOW HIGHWAY STANDARD 701321.

CARDINAL ROAD - LOCAL ROAD CLOSURE. SEE DETOUR PLANS FOR SIGNING. SHALL FOLLOW DISTRICT 5 DETAIL 70200000.

ROADWAY CONSTRUCTION

U.S. 150 - REMOVE EXISTING WESTBOUND PAVEMENT AND CONSTRUCT PROPOSED WESTBOUND EMBANKMENT AND PAVEMENT. SURFACE COURSE TO BE CONSTRUCTED IN STAGE 3.

SEE PROPOSED TYPICAL SECTION SHEETS FOR DETAILED INFORMATION.

STAGE GENERAL NOTES

SEE PAVEMENT PROFILE TRANSITIONS DETAIL.

SEE STRUCTURE PLANS FOR BRIDGE STAGING.

USE I-57 DETOUR PLANS FOR TRAFFIC DURING BEAM REMOVAL AND REPLACEMENT OPERATIONS.

PRIMARY IDOT STANDARDS THIS STAGE
(SEE SPECIAL PROVISIONS FOR ADDITIONAL APPLICABLE STANDARDS)
701001, 701006, 701011, 701206, 701301, 701301, 701321, 701400, 701401, 701411, 701501, 701901, D5-70200000

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- TEMPORARY CONCRETE BARRIER WALL
- VERTICAL PANEL, POST MOUNTED
- TYPE II BARRICADE WITH STEADY BURNING LIGHT
- DRUM WITH STEADY BURNING LIGHT
- CONE, DRUM, OR BARRICADE

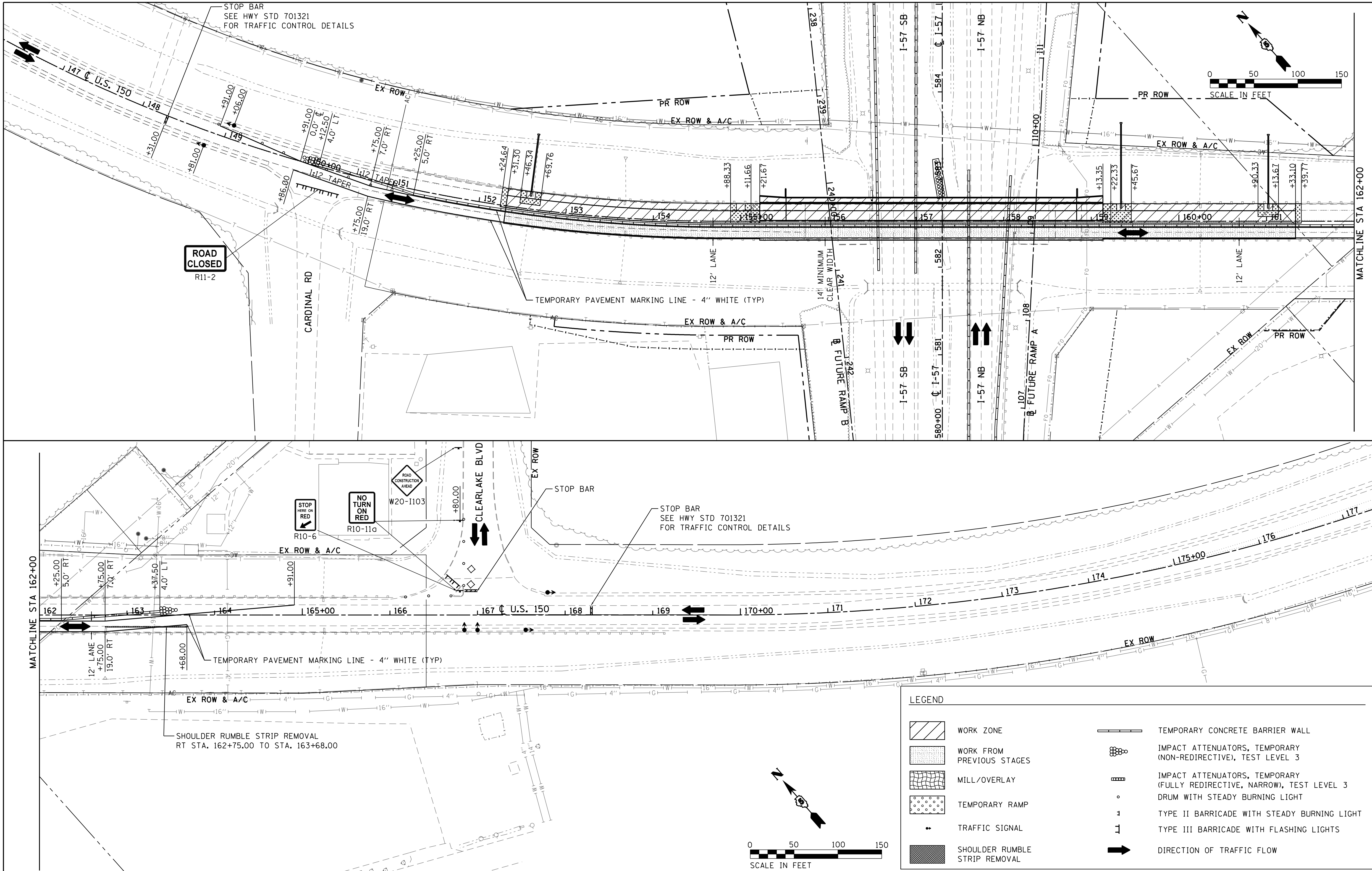
FILE NAME = D570898-sht-MOT-Stage2.dgn Default	USER NAME = bemery	DESIGNED - BJE	REVISED -
		DRAWN - BJE	REVISED -
	PLOT SCALE = 100.0000 ′ / in.	CHECKED - KRC	REVISED -
	PLOT DATE = 5/6/2019 - 2:51:58 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
U.S. 150 OVER I-57 STAGE 2

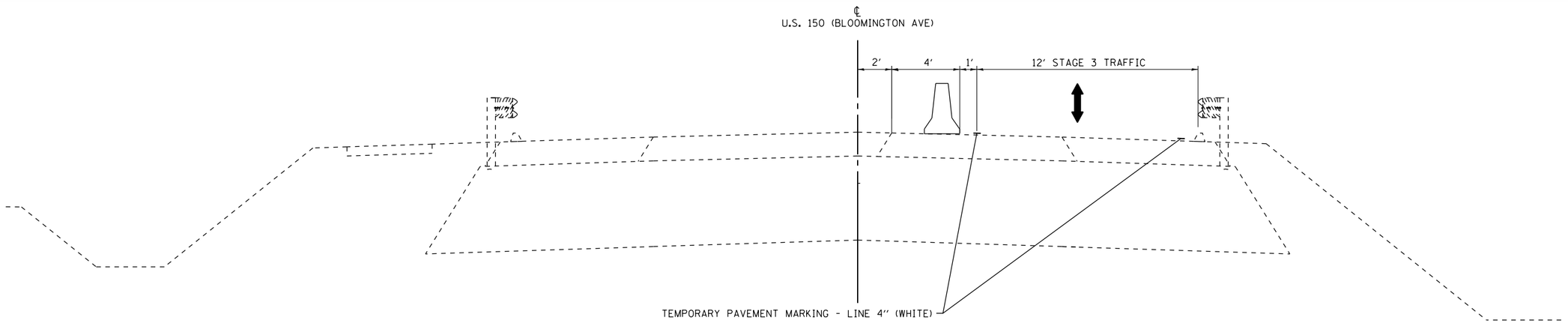
SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	49
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			


STOP BAR
SEE HWY STD 701321
FOR TRAFFIC CONTROL DETAILS
℄ U.S. 150
EX ROW
PR ROW
EX ROW & A/C
1:12 TAPER
ROAD CLOSED
R11-2
CARDINAL RD
TEMPORARY PAVEMENT MARKING LINE - 4" WHITE (TYP)
12' LANE
14' MINIMUM CLEAR WIDTH
I-57 SB
℄ I-57
I-57 NB
℄ FUTURE RAMP B
℄ FUTURE RAMP A
MATCHLINE STA 162+00
SCALE IN FEET
CLEARLAKE BLVD
STOP BAR
ROAD CONSTRUCTION AHEAD
W20-1103
NO TURN ON RED
R10-11a
STOP HERE ON RED
R10-6
SHOULDER RUMBLE STRIP REMOVAL
RT STA. 162+75.00 TO STA. 163+68.00
LEGEND
WORK ZONE
WORK FROM PREVIOUS STAGES
MILL/OVERLAY
TEMPORARY RAMP
TRAFFIC SIGNAL
SHOULDER RUMBLE STRIP REMOVAL
TEMPORARY CONCRETE BARRIER WALL
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
DRUM WITH STEADY BURNING LIGHT
TYPE II BARRICADE WITH STEADY BURNING LIGHT
TYPE III BARRICADE WITH FLASHING LIGHTS
DIRECTION OF TRAFFIC FLOW

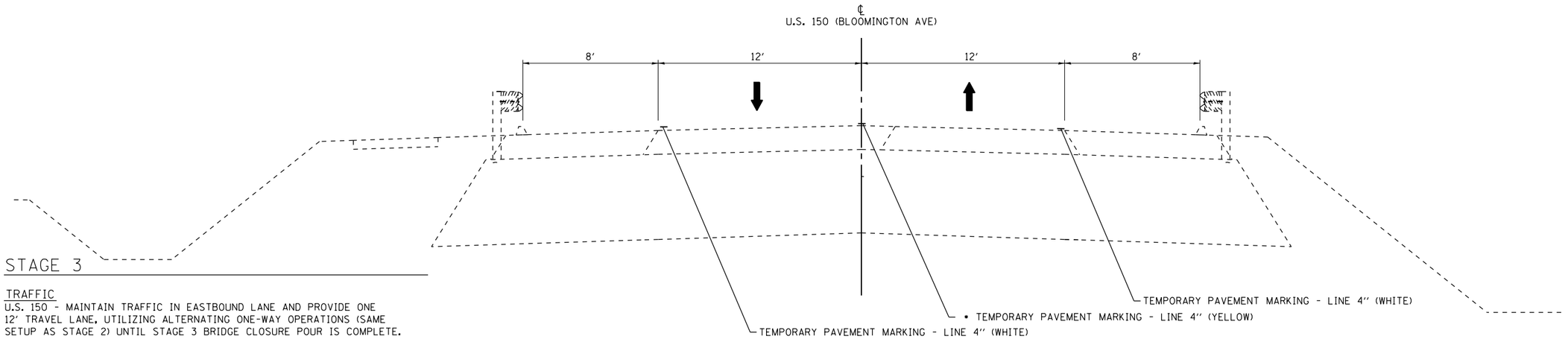
FILE NAME = D570B98-sht-MOT-Stage2.dgn	USER NAME = bemery	DESIGNED - BJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC PLAN U.S. 150 OVER I-57 STAGE 2
		DRAWN - BJE	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - KRC	REVISED -		
Default	PLOT DATE = 6/4/2019 - 9:40:55 AM	DATE - 04/16/2019	REVISED -		SCALE: 1" = 50' SHEET OF SHEETS STA. 147+00.00 TO STA. 177+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	50
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



STAGE 3 TYPICAL #1 - U.S. 150

(DURING STAGE 3 BRIDGE CLOSURE POUR CONSTRUCTION)



STAGE 3 TYPICAL #2 - U.S. 150

NOTE: FOR TEMPORARY PAVEMENT MARKING AFTER FINAL ROADWAY SURFACE COURSE HAS BEEN CONSTRUCTED.

STAGE 3

TRAFFIC

U.S. 150 - MAINTAIN TRAFFIC IN EASTBOUND LANE AND PROVIDE ONE 12′ TRAVEL LANE, UTILIZING ALTERNATING ONE-WAY OPERATIONS (SAME SETUP AS STAGE 2) UNTIL STAGE 3 BRIDGE CLOSURE POUR IS COMPLETE.

AT COMPLETION OF STAGE 3 BRIDGE CLOSURE POUR CONSTRUCTION, SHIFT U.S. 150 TRAFFIC INTO FINAL LANE CONFIGURATIONS.

HOT-MIX ASPHALT SURFACE COURSE SHALL BE CONSTRUCTED AT THE CONCLUSION OF STAGE 3 CONSTRUCTION UTILIZING LANE CLOSURES IN ACCORDANCE WITH IDOT STANDARDS.

CARDINAL ROAD - LOCAL ROAD CLOSURE. SEE DETOUR PLANS FOR SIGNING. SHALL FOLLOW DISTRICT 5 DETAIL 70200000. REMOVE CLOSURE AFTER U.S. 150 TRAFFIC HAS SHIFTED INTO FINAL LANE CONFIGURATIONS AND TEMPORARY SIGNALS ARE NO LONGER NEEDED.

ROADWAY CONSTRUCTION

AT COMPLETION OF STAGE 3 BRIDGE CLOSURE POUR CONSTRUCTION, CONSTRUCT PROPOSED PAVEMENT SURFACE COURSE AND PLACE FINAL ROADWAY PAVEMENT MARKINGS.

STAGE GENERAL NOTES

SEE STRUCTURE PLANS FOR BRIDGE STAGING.

PRIMARY IDOT STANDARDS THIS STAGE

(SEE SPECIAL PROVISIONS FOR ADDITIONAL APPLICABLE STANDARDS)

701001, 701006, 701011, 701206, 701301, 701311, 701321, 701400, 701401, 701411, 701501, 701901, D5-70200000

- WESTBOUND ℄ - SKIP-DASH YELLOW - STA 148+31.00 TO STA 155+21.67
  EASTBOUND ℄ - SOLID YELLOW - STA 148+31.00 TO STA 155+21.67
  EB & WB ℄ - DOUBLE SOLID YELLOW - STA 155+21.67 TO STA 165+00.00

LEGEND

- WORK ZONE
- DIRECTION OF TRAFFIC FLOW
- TEMPORARY CONCRETE BARRIER WALL
- VERTICAL PANEL, POST MOUNTED
- TYPE II BARRICADE WITH STEADY BURNING LIGHT
- DRUM WITH STEADY BURNING LIGHT
- CONE, DRUM, OR BARRICADE

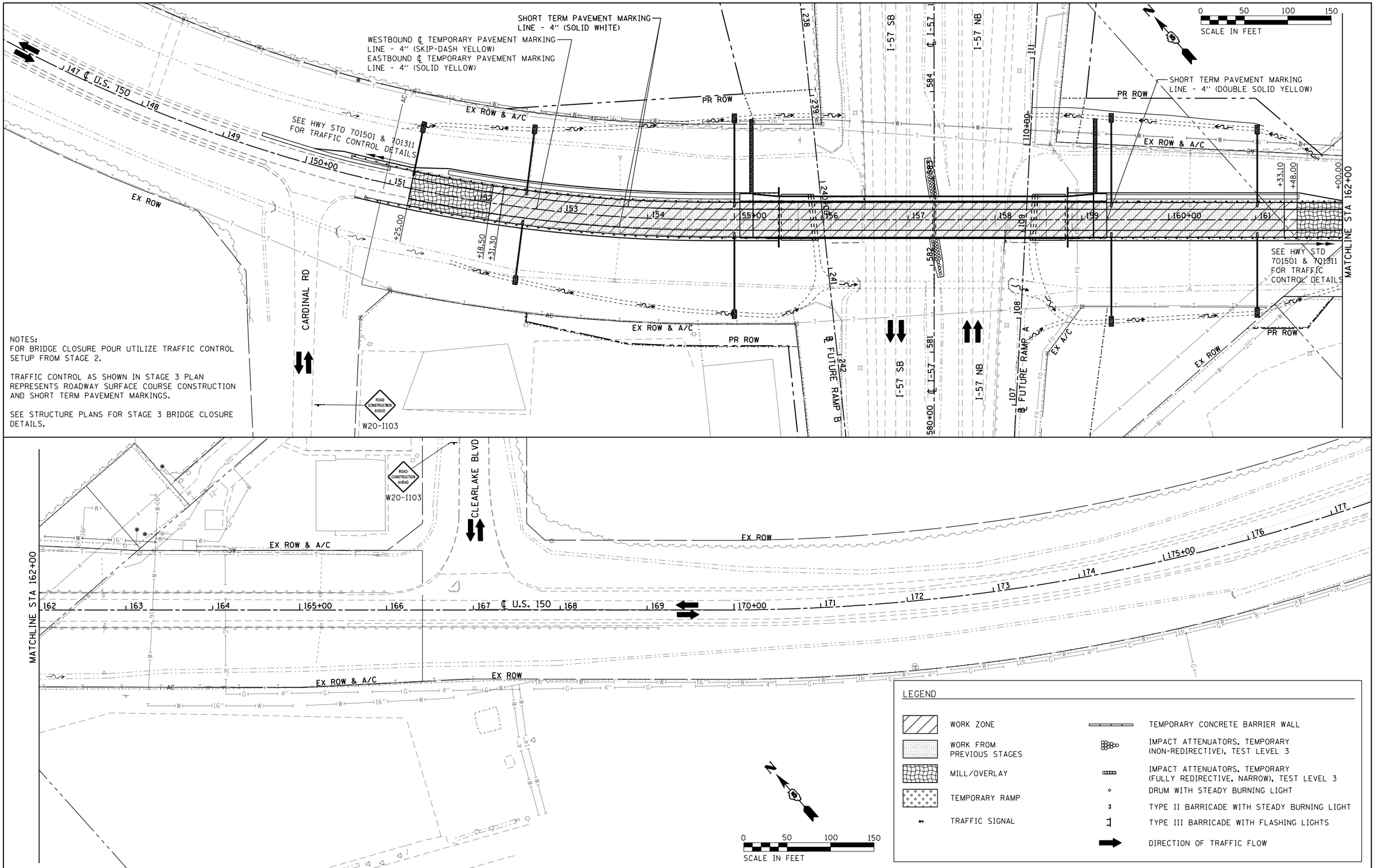
FILE NAME = D570B98-sht-MOT-Stage3.dgn	USER NAME = bemery	DESIGNED - BJE	REVISED -
		DRAWN - BJE	REVISED -
	PLOT SCALE = 100.0000 ′ / in.	CHECKED - KRC	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:52:20 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
U.S. 150 OVER I-57 STAGE 3

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	51
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



NOTES:
FOR BRIDGE CLOSURE POUR UTILIZE TRAFFIC CONTROL SETUP FROM STAGE 2.

TRAFFIC CONTROL AS SHOWN IN STAGE 3 PLAN REPRESENTS ROADWAY SURFACE COURSE CONSTRUCTION AND SHORT TERM PAVEMENT MARKINGS.

SEE STRUCTURE PLANS FOR STAGE 3 BRIDGE CLOSURE DETAILS.

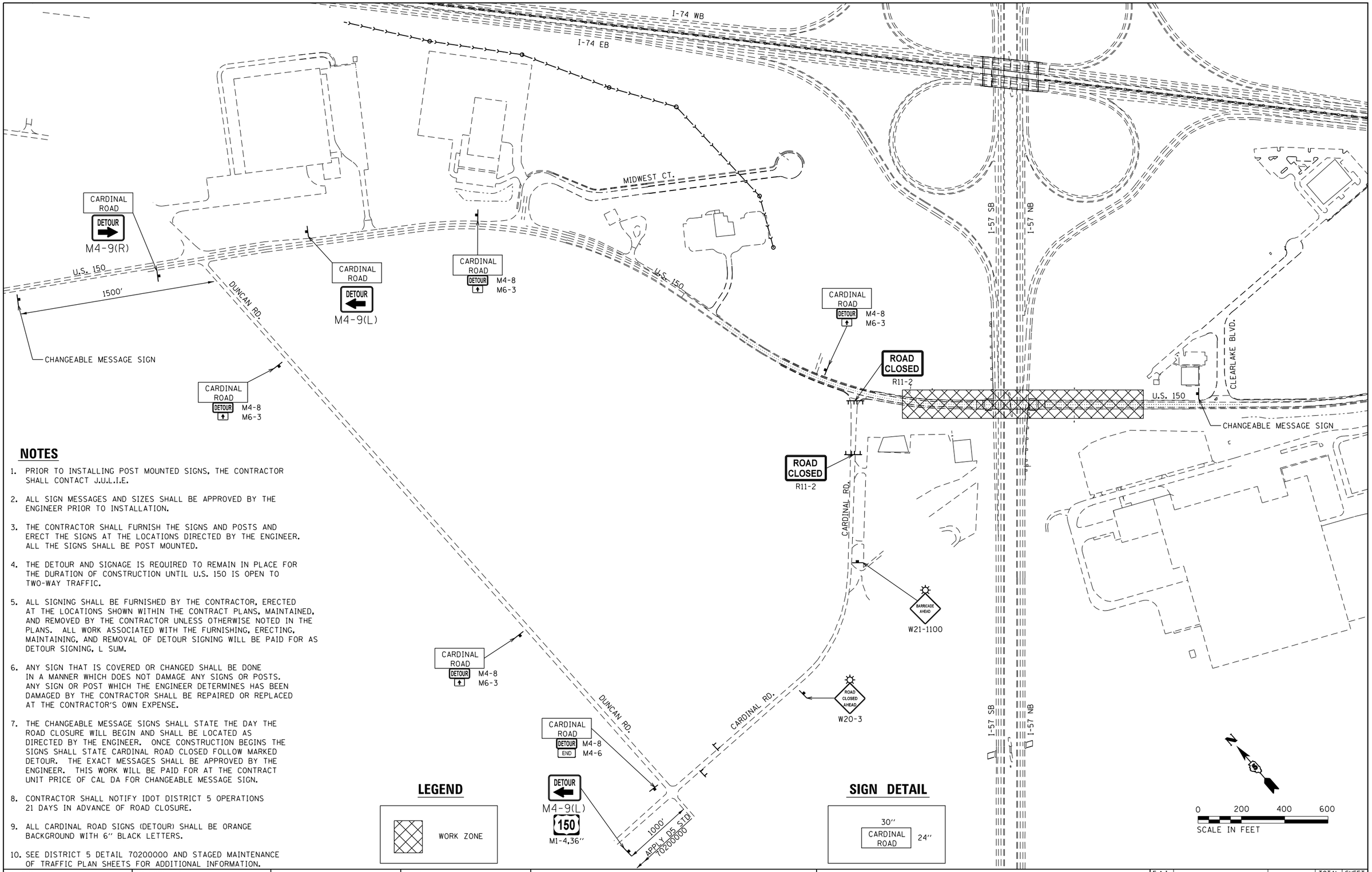
FILE NAME = D570B98-sht-MOT-Stage3.dgn Default	USER NAME = bemery	DESIGNED - BJE	REVISED -
		DRAWN - BJE	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - KRC	REVISED -
	PLOT DATE = 5/6/2019 - 2:52:21 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
U.S. 150 OVER I-57 STAGE 3

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 147+00.00 TO STA. 177+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	52
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



NOTES

1. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. ALL SIGN MESSAGES AND SIZES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
3. THE CONTRACTOR SHALL FURNISH THE SIGNS AND POSTS AND ERECT THE SIGNS AT THE LOCATIONS DIRECTED BY THE ENGINEER. ALL THE SIGNS SHALL BE POST MOUNTED.
4. THE DETOUR AND SIGNAGE IS REQUIRED TO REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION UNTIL U.S. 150 IS OPEN TO TWO-WAY TRAFFIC.
5. ALL SIGNING SHALL BE FURNISHED BY THE CONTRACTOR, ERECTED AT THE LOCATIONS SHOWN WITHIN THE CONTRACT PLANS, MAINTAINED, AND REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED IN THE PLANS. ALL WORK ASSOCIATED WITH THE FURNISHING, ERECTING, MAINTAINING, AND REMOVAL OF DETOUR SIGNING WILL BE PAID FOR AS DETOUR SIGNING, L SUM.
6. ANY SIGN THAT IS COVERED OR CHANGED SHALL BE DONE IN A MANNER WHICH DOES NOT DAMAGE ANY SIGNS OR POSTS. ANY SIGN OR POST WHICH THE ENGINEER DETERMINES HAS BEEN DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
7. THE CHANGEABLE MESSAGE SIGNS SHALL STATE THE DAY THE ROAD CLOSURE WILL BEGIN AND SHALL BE LOCATED AS DIRECTED BY THE ENGINEER. ONCE CONSTRUCTION BEGINS THE SIGNS SHALL STATE CARDINAL ROAD CLOSED FOLLOW MARKED DETOUR. THE EXACT MESSAGES SHALL BE APPROVED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE OF CAL DA FOR CHANGEABLE MESSAGE SIGN.
8. CONTRACTOR SHALL NOTIFY IDOT DISTRICT 5 OPERATIONS 21 DAYS IN ADVANCE OF ROAD CLOSURE.
9. ALL CARDINAL ROAD SIGNS (DETOUR) SHALL BE ORANGE BACKGROUND WITH 6'' BLACK LETTERS.
10. SEE DISTRICT 5 DETAIL 70200000 AND STAGED MAINTENANCE OF TRAFFIC PLAN SHEETS FOR ADDITIONAL INFORMATION.

LEGEND

WORK ZONE

SIGN DETAIL

30''
CARDINAL ROAD
24''

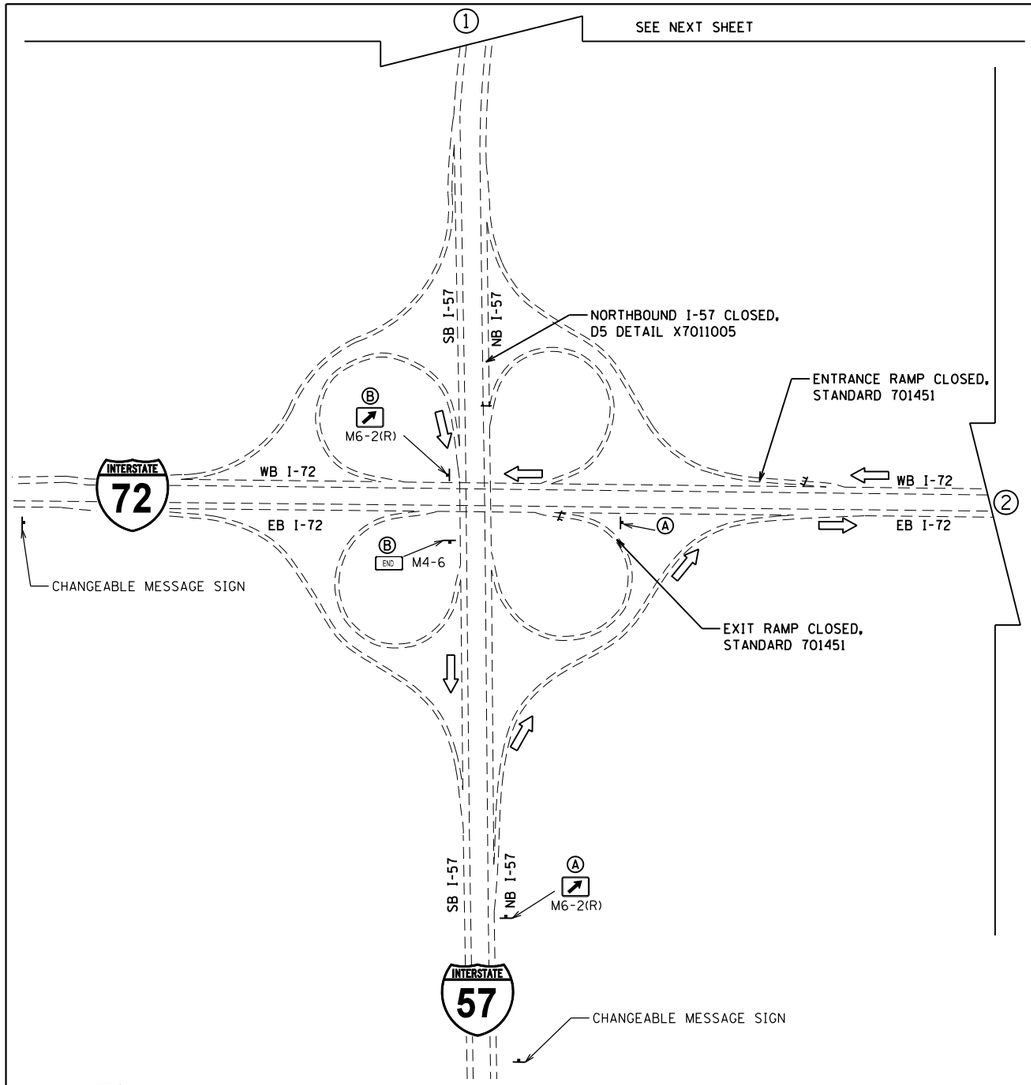
FILE NAME = D570B98-sht-detour-CardinalRd.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 400.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:52:42 PM	DATE - 04/16/2019	REVISED -

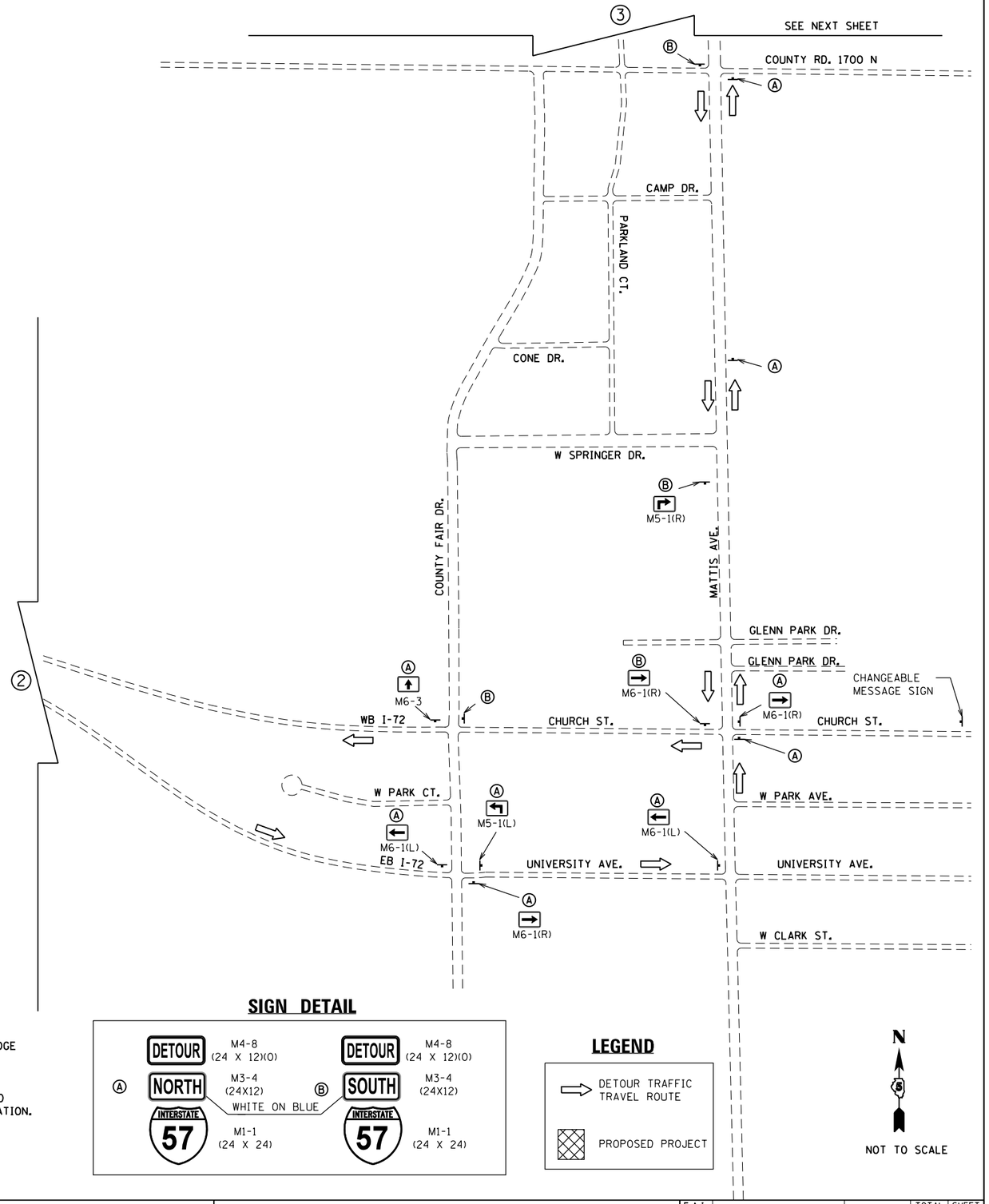
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN
CARDINAL ROAD

SCALE: 1'' = 200' | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	53
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			





NOTES

1. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
2. ALL SIGN MESSAGES AND SIZES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
3. THE CONTRACTOR SHALL FURNISH THE SIGNS AND POSTS AND ERECT THE SIGNS AT THE LOCATIONS DIRECTED BY THE ENGINEER. ALL THE SIGNS SHALL BE POST MOUNTED.
4. ALL SIGNING SHALL BE FURNISHED BY THE CONTRACTOR, ERECTED AT THE LOCATIONS SHOWN WITHIN THE CONTRACT PLANS, MAINTAINED, AND REMOVED BY THE CONTRACTOR UNLESS OTHERWISE NOTED IN THE PLANS. ALL WORK ASSOCIATED WITH THE FURNISHING, ERECTING, MAINTAINING, AND REMOVAL OF DETOUR SIGNING WILL BE PAID FOR AS DETOUR SIGNING, L SUM.
5. ANY SIGN THAT IS COVERED OR CHANGED SHALL BE DONE IN A MANNER WHICH DOES NOT DAMAGE ANY SIGNS OR POSTS. ANY SIGN OR POST WHICH THE ENGINEER DETERMINES HAS BEEN DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
6. THE CHANGEABLE MESSAGE SIGNS SHALL STATE THE DAY THE ROAD CLOSURE WILL BEGIN AND SHALL BE LOCATED AS DIRECTED BY THE ENGINEER. ONCE CONSTRUCTION BEGINS THE SIGNS SHALL STATE I-57 CLOSED FOLLOW MARKED DETOUR. THE EXACT MESSAGES SHALL BE APPROVED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CAL DA FOR CHANGEABLE MESSAGE SIGN.
7. CONTRACTOR SHALL NOTIFY IDOT DISTRICT 5 OPERATIONS 21 DAYS IN ADVANCE OF ROAD CLOSURE.
8. I-57 WILL REMAIN OPEN EXCEPT FOR REMOVAL AND SETTING OF BRIDGE BEAMS ON U.S. 150. THE REMOVAL AND SETTING OF BRIDGE BEAMS WILL BE DONE AT NIGHT AS DESCRIBED IN THE SPECIAL PROVISIONS.
9. SEE DISTRICT 5 DETAIL X7011005, STANDARD 701451, AND STAGED MAINTENANCE OF TRAFFIC PLAN SHEETS FOR ADDITIONAL INFORMATION.

SIGN DETAIL

LEGEND

NOT TO SCALE

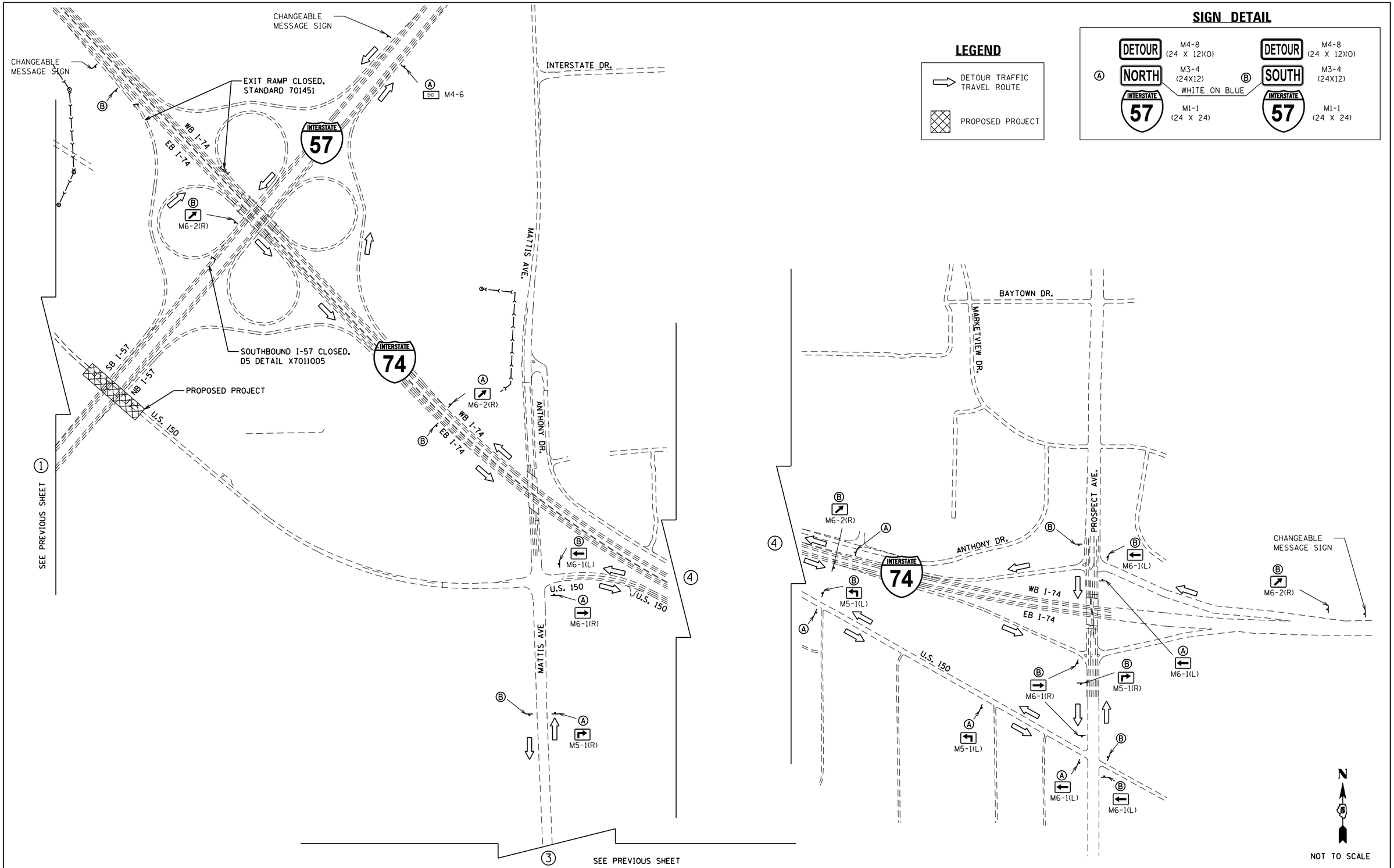
FILE NAME = D570898-sht-detour-I57.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 600.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:53:04 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN
I-57

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	54
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



LEGEND

- DETOUR TRAFFIC TRAVEL ROUTE
- PROPOSED PROJECT

SIGN DETAIL

A	DETOUR	M4-8 (24 X 12)(O)	
	NORTH	M3-4 (24X12)	WHITE ON BLUE
	INTERSTATE 57	M1-1 (24 X 24)	
B	DETOUR	M4-8 (24 X 12)(O)	
	SOUTH	M3-4 (24X12)	
	INTERSTATE 57	M1-1 (24 X 24)	

FILE NAME = D570B98-sht-detour-I57.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 600.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:53:04 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLAN
I-57

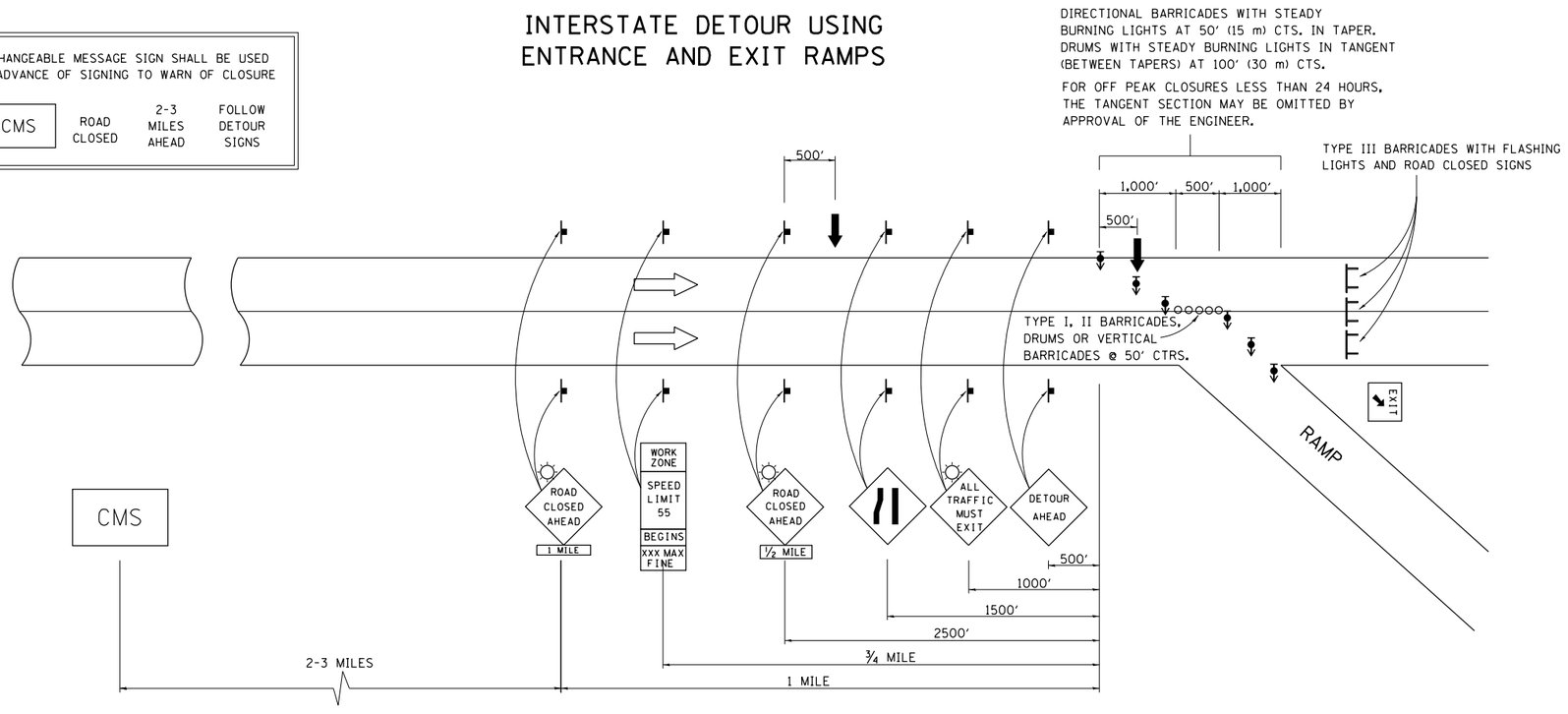
SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	55
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

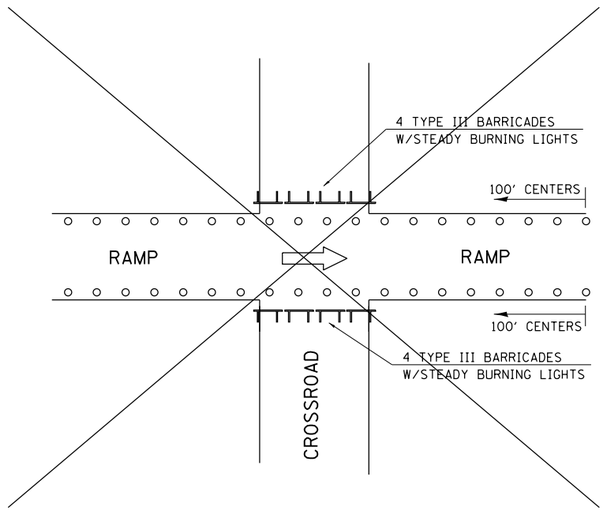
INTERSTATE DETOUR USING ENTRANCE AND EXIT RAMPS

A CHANGEABLE MESSAGE SIGN SHALL BE USED IN ADVANCE OF SIGNING TO WARN OF CLOSURE

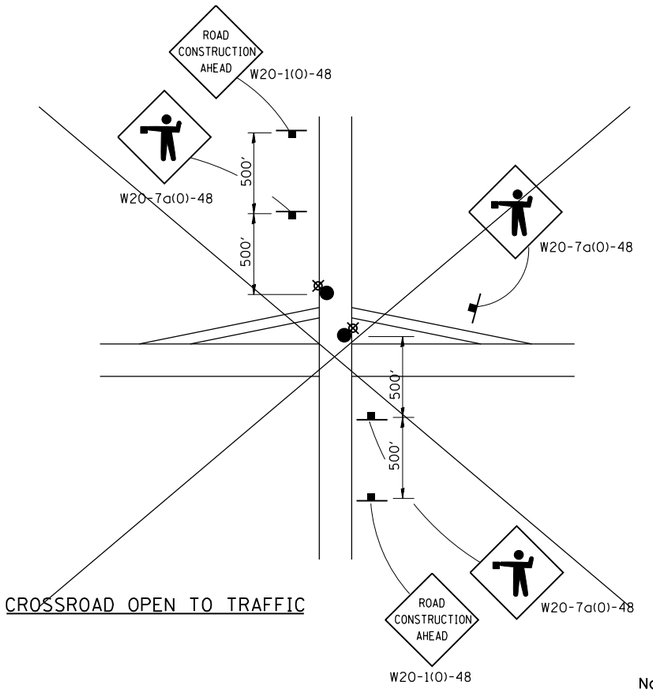
CMS	ROAD CLOSED	2-3 MILES AHEAD	FOLLOW DETOUR SIGNS



SYMBOLS	
	ARROW BOARD
	SIGN
	DRUM W/STEADY BURNING LIGHT
	TYPE III BARRICADE
	DIRECTIONAL BARRICADE W/STEADY BURNING LIGHT
	LIGHTED FLAGGER STATIONS



CROSSROAD CLOSED TO TRAFFIC



CROSSROAD OPEN TO TRAFFIC

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

DISTRICT 5 DETAIL NO. X7011005

FILE NAME = D570898-sht-detour-157-details.dgn	USER NAME = bemery	DESIGNED -	REVISED - 12/06
		DRAWN -	REVISED - 1/10
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -
	PLOT DATE = 5/6/2019 - 2:53:26 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

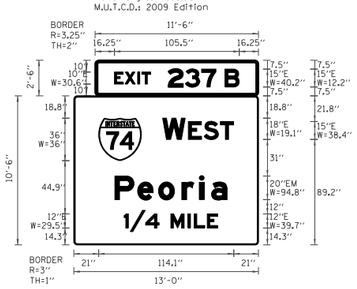
TRAFFIC CONTROL & PROTECTION FOR TEMPORARY DETOUR

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	56
		CONTRACT NO. 70B98		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL A

SIGN DETAIL A
N.T.S.



Letter locations are panel edge to lower left corner

SIGN NUMBER	I-57 NB Ahead SB Right
WIDTH x HGHT.	6'-0" x 7'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Temp. Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND-BORDER	TYPE: Reflective
	COLOR: White/White

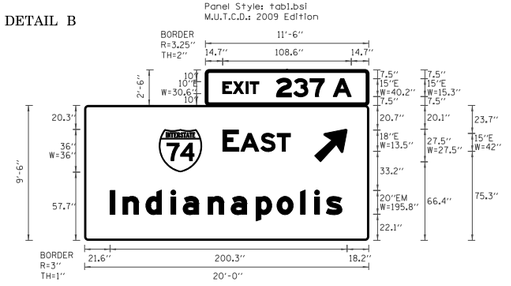
SYMBOL	ROT	X	Y	WID	HT
M1_1	0	21.0	71.21	36	36

LETTER POSITIONS (X)

W	E	S	T																	LENGTH	SERIESSIZE
74.4	97.2	110.4	123.6																	60.0	E(M) 18,15
P	e	o	r	i	a																
34.8	54.0	72	91.2	105.6	116.2															94.7	E(M) 20,15
1	/	4	M	I	L	E															
42.4	47.57	60.7	81.9	98.49	101.6	112.5														79.0	E(M) 12
E	X	I	T	2	3	7	B														
16.3	25.2	35.9	39.36	79.87	76.1	89.9	109.7													30.5, 59.7	E(M) 10,15

SIGN DETAIL B

SIGN DETAIL B
N.T.S.



Letter locations are panel edge to lower left corner

SIGN NUMBER	I-57 SB Ahead NB Right
WIDTH x HGHT.	6'-0" x 7'-0"
BORDER WIDTH	1"
CORNER RADIUS	3"
MOUNTING	Temp. Ground
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND-BORDER	TYPE: Reflective
	COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT
AR-TYPE A	45	199.3	66.4	34.9	22.1
M1_1	0	63	57.72	36	36

LETTER POSITIONS (X)

E	A	S	T																	LENGTH	SERIESSIZE
116.7	131.9	148.8	11.3																	45.9	E(M) 18,15
I	n	d	i	a	n	a	p	o	l	i	s										
21.5	32.3	51.7	72.9	83.1	104.3	123.7	144.9	162.5	182.3	194.3	204.13									182.6	E(M) 20,15
E	X	I	T	2	3	7	A														
14.7	23.9	34.3	37.8	60.3	74.5	88.3	108.0													30.5, 63	E(M) 10,15

SIGN DETAILS

SIGN DESCRIPTION	SIGN DETAIL LETTER	SIGN STANDARD NUMBER	LOCATION		MOUNTING TYPE
			STATION	LT/RT *	
CHAMPAIGN COUNTY					
PRE-STAGE A					
I-57					
** ADVANCE GUIDE: I-74 WEST, EXIT 237B	A	-	580+95.00	124.5' RT	PERMANENT
** ADVANCE GUIDE: I-74 EAST, EXIT 237A	B	-	580+95.00	143.0' RT	PERMANENT
** ADVISORY RAMP SPEED 30 MPH	C ***	W13-3	580+95.00	78.0' RT	PERMANENT

NOTES:
* LT/RT OFFSETS ARE GIVEN WITH RESPECT TO THE DIRECTION OF TRAFFIC. OFFSETS ARE TO THE CENTER OF THE SIGN PANELS.
** PRIOR TO THE REMOVAL OF EXISTING ADVANCE GUIDE SIGNS, THE CONTRACTOR SHALL ENSURE THAT THE SIMILAR PROPOSED ADVANCE GUIDE SIGNS HAVE BEEN INSTALLED OR ARE INSTALLED DURING THE SAME OPERATION AS THE REMOVAL.
*** EXISTING SIGN TO BE REMOVED AND RELOCATED

FILE NAME = D570B98-sht-MOT-signs.dgn Default	USER NAME = bemery	DESIGNED - BJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGN PANEL DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BJE	REVISED -			57	(10-34HB)BR-1	CHAMPAIGN	147	57
	PLOT SCALE = 40.0000 ' / in.	CHECKED - CWW	REVISED -					CONTRACT NO. 70B98		
	PLOT DATE = 5/6/2019 - 2:53:47 PM	DATE - 04/16/2019	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

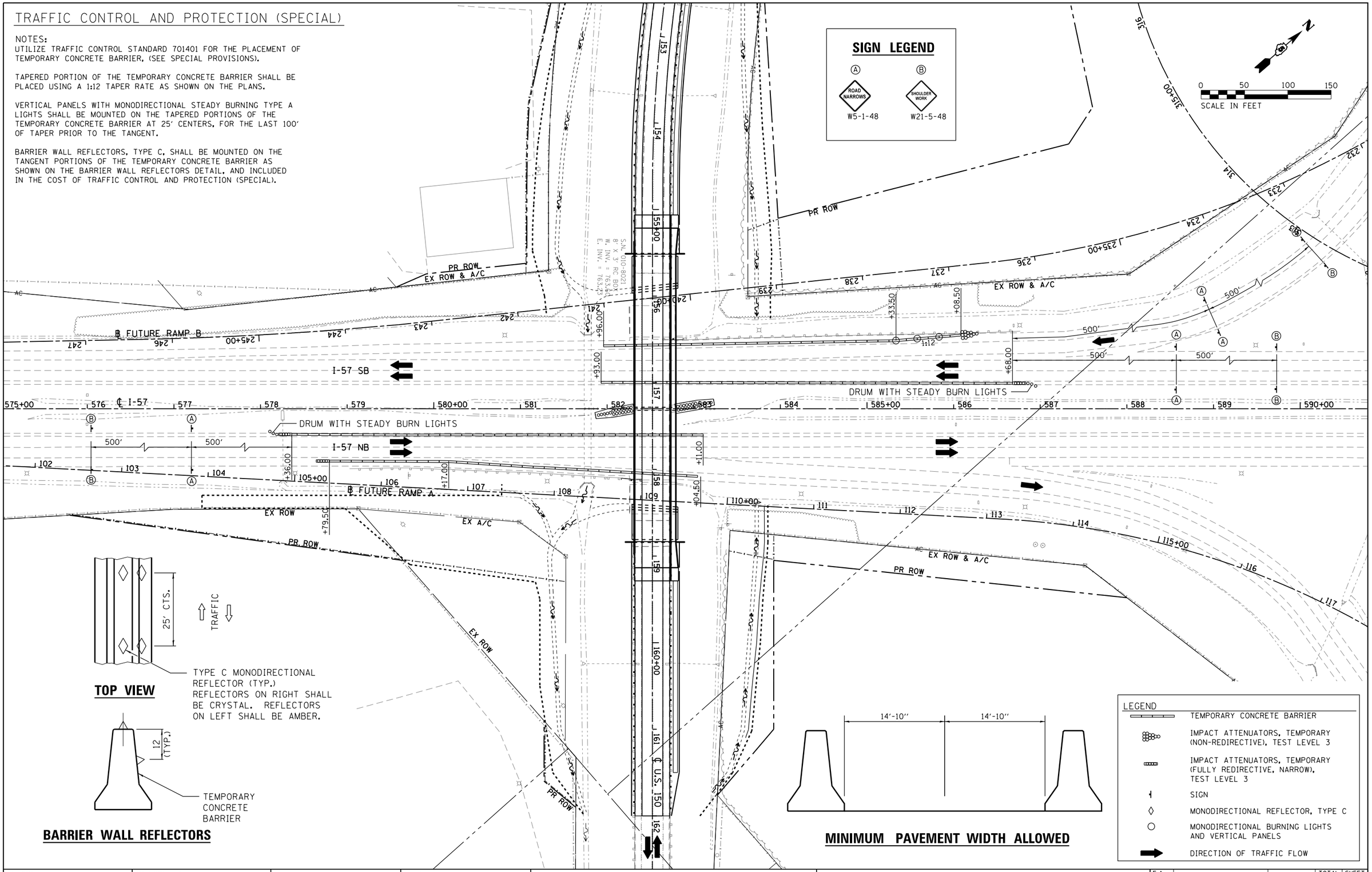
TRAFFIC CONTROL AND PROTECTION (SPECIAL)

NOTES:
UTILIZE TRAFFIC CONTROL STANDARD 701401 FOR THE PLACEMENT OF TEMPORARY CONCRETE BARRIER, (SEE SPECIAL PROVISIONS).

TAPERED PORTION OF THE TEMPORARY CONCRETE BARRIER SHALL BE PLACED USING A 1:12 TAPER RATE AS SHOWN ON THE PLANS.

VERTICAL PANELS WITH MONODIRECTIONAL STEADY BURNING TYPE A LIGHTS SHALL BE MOUNTED ON THE TAPERED PORTIONS OF THE TEMPORARY CONCRETE BARRIER AT 25' CENTERS, FOR THE LAST 100' OF TAPER PRIOR TO THE TANGENT.

BARRIER WALL REFLECTORS, TYPE C, SHALL BE MOUNTED ON THE TANGENT PORTIONS OF THE TEMPORARY CONCRETE BARRIER AS SHOWN ON THE BARRIER WALL REFLECTORS DETAIL, AND INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).



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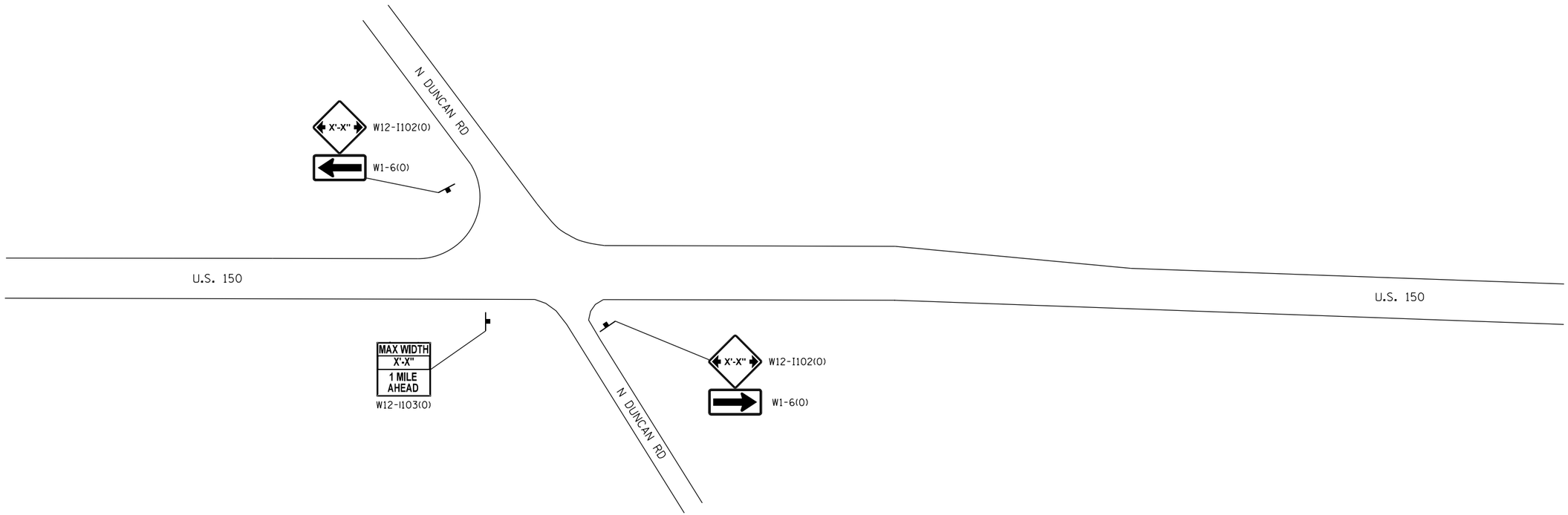
		DRAWN - BJE	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - XXX	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:54:10 PM	DATE - 04/16/2019	REVISED -

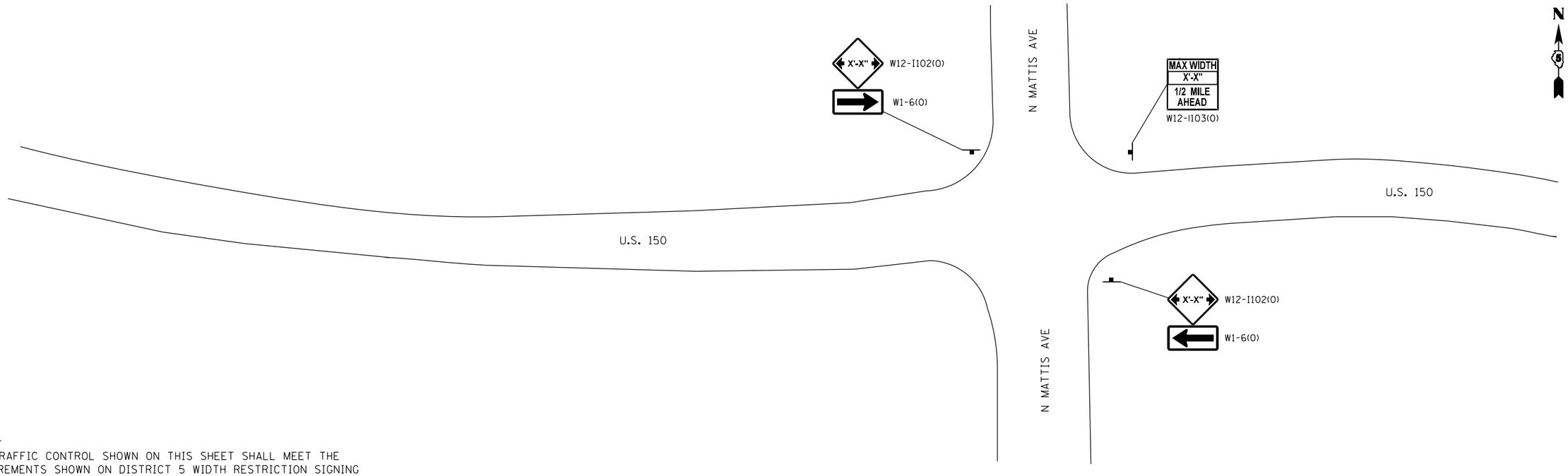
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION (SPECIAL)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	58
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			





NOTES

ALL TRAFFIC CONTROL SHOWN ON THIS SHEET SHALL MEET THE REQUIREMENTS SHOWN ON DISTRICT 5 WIDTH RESTRICTION SIGNING DETAIL NO. X7200201 AND SHALL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR WIDTH RESTRICTION SIGNING.

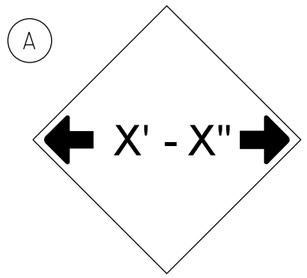
FILE NAME = D570898-sht-MOT-details.dgn Default	USER NAME = bemery	DESIGNED - BJE	REVISED -
		DRAWN - BJE	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - CWW	REVISED -
	PLOT DATE = 5/6/2019 - 2:54:32 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING DETAIL

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	59
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

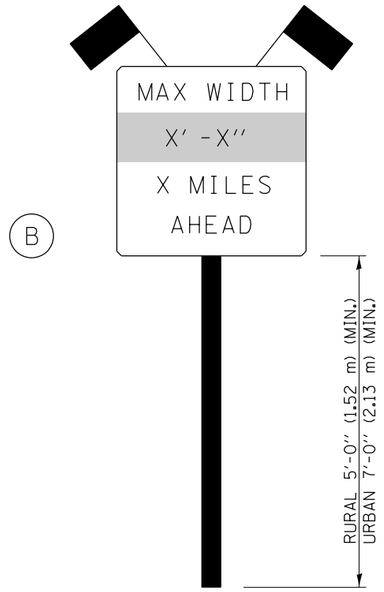


W12-I102(O)-48''x48''(1200x1200)

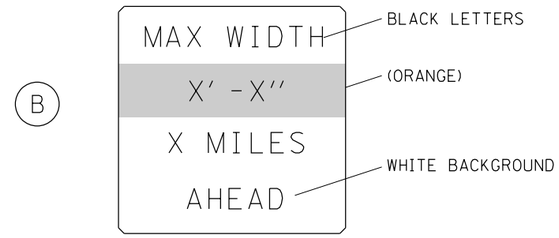
STAGE	X' - X''
1	12' - 6''
2	12' - 6''
3	12' - 6''

SIGN (A) 4 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

STAGE	X' - X''
1	12' - 6''
2	12' - 6''
3	12' - 6''

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.

DISTRICT 5 DETAIL NO. X7200201

FILE NAME = D570898-sht-MOT-details.dgn	USER NAME = bemery	DESIGNED - BJE	REVISED - 03/11 -KJT
		DRAWN - BJE	REVISED - 05/08
	PLOT SCALE = 40.0000 '/ in.	CHECKED - CWW	REVISED - 10/08 - KJT
	PLOT DATE = 5/6/2019 - 2:54:32 PM	DATE - 04/16/2019	REVISED - 7/09 - KJT

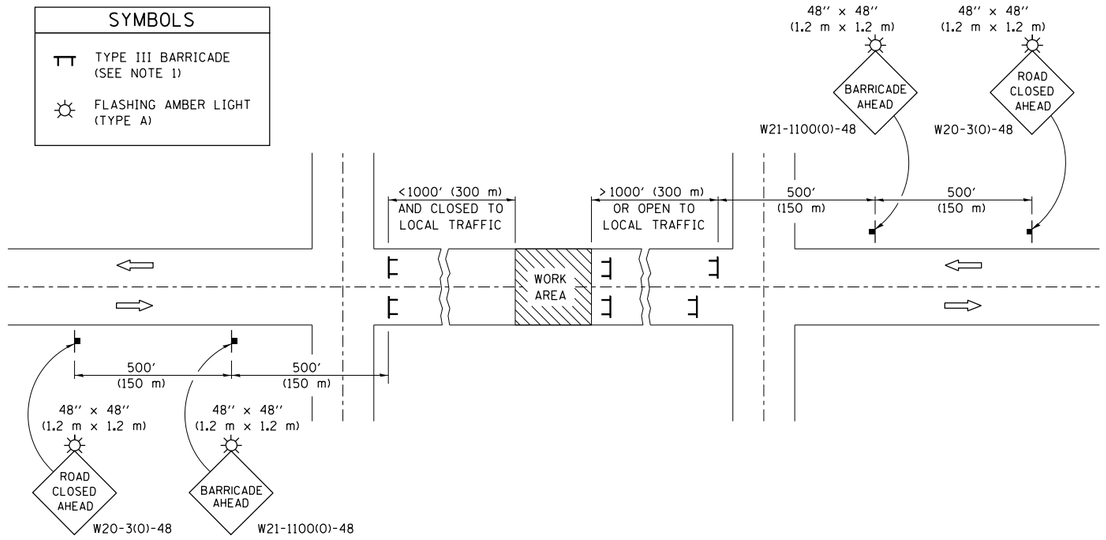
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDTH RESTRICTION SIGNING

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	60
		CONTRACT NO. 70B98		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

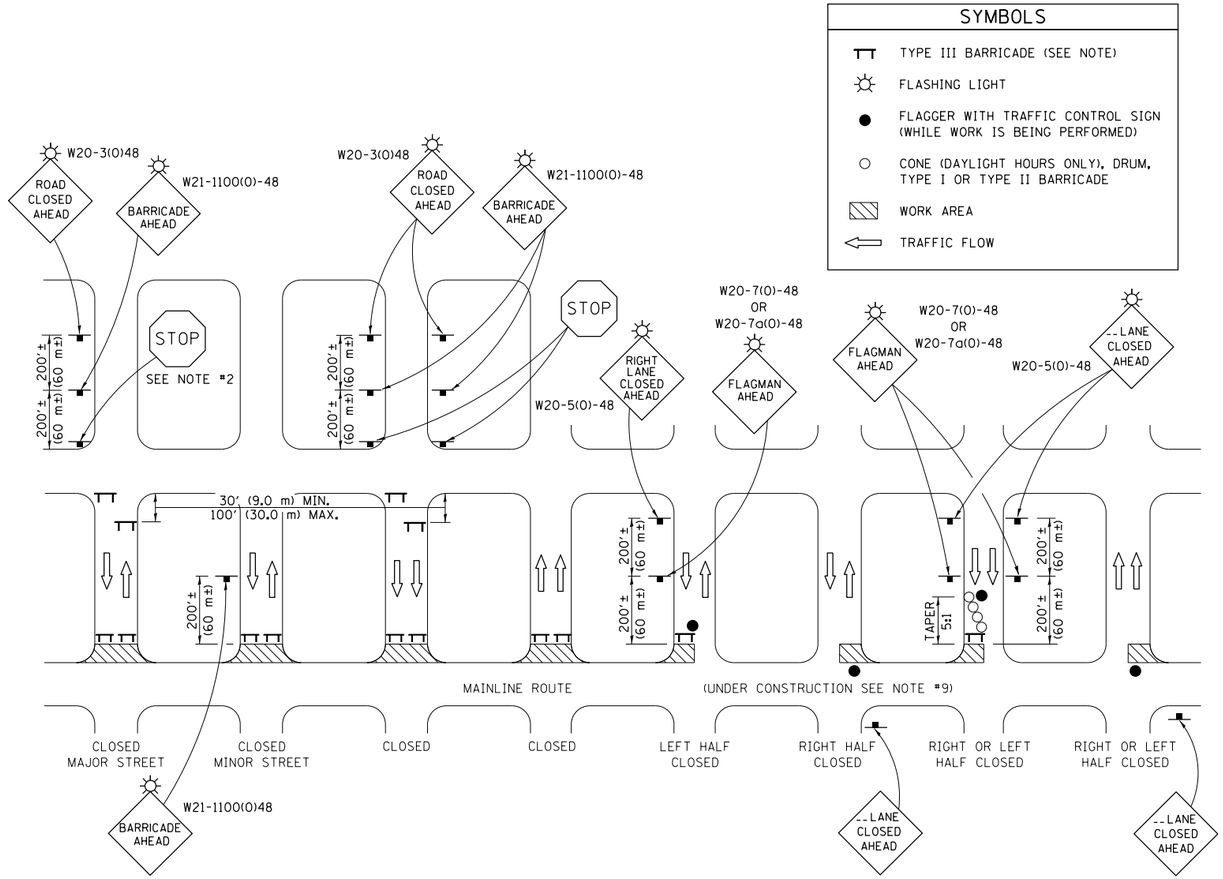
ROAD CLOSURE



GENERAL NOTES

1. TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
2. IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
3. WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
4. STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
5. IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
6. REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TY III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
7. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
8. A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
9. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
10. FORMS BT. 725 AND BT. 726 ARE REQUIRED.
11. WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
12. AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SIDEROAD / STREET CLOSURE



GENERAL NOTES

1. TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
2. WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
3. STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
4. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
5. ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
7. FORMS BT 725 AND BT 726 ARE REQUIRED.
8. THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
9. ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

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

DISTRICT 5 DETAIL NO. 70200000

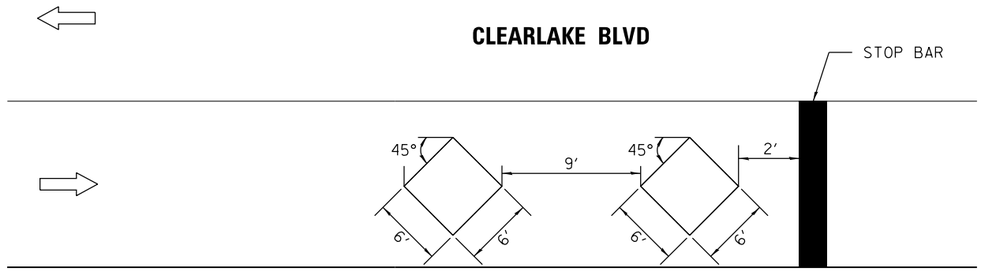
FILE NAME = D570B98-sht-MOT-details.dgn	USER NAME = bemery	DESIGNED -	REVISED - 11/06
		DRAWN -	REVISED - 12/07
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED - 09/09 - KJT
	PLOT DATE = 5/6/2019 - 2:54:32 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDEROAD/STREET CLOSURES)

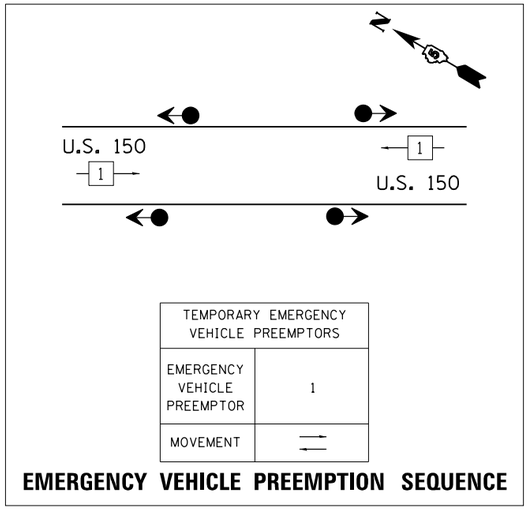
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	61
		CONTRACT NO. 70B98		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

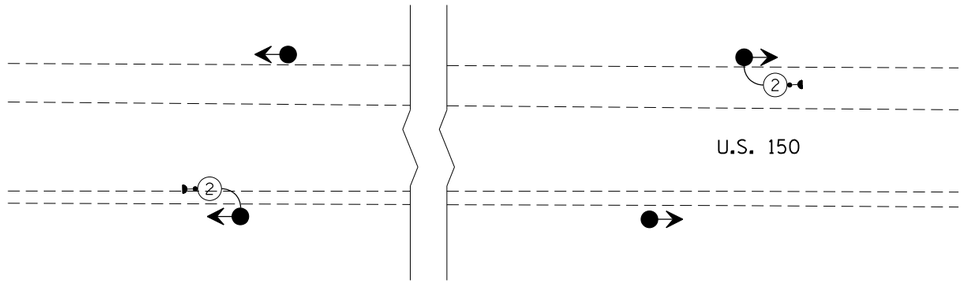


DETECTOR LOOPS

SEE SPECIAL PROVISIONS



EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY TRAFFIC SIGNAL INSTALLATION DIAGRAM FOR EMERGENCY VEHICLE PREEMPTION

SEE SPECIAL PROVISIONS
AND STAGING DETAIL SHEETS

LEGEND

TEMPORARY BRIDGE TRAFFIC SIGNALS

CONFIRMATION BEACON

(2) DENOTES NUMBER OF CONDUCTORS

FILE NAME = D570898-sht-MOT-details.dgn	USER NAME = bemery	DESIGNED - BJE	REVISED -
		DRAWN - BJE	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - KRC	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:54:33 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP DETAILS CLEARLAKE BLVD & TEMPORARY TRAFFIC SIGNAL INSTALLATION PREEMPTION DETAILS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	62
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

PR STONE RIPRAP, CLASS A3 (TYP.)

PR GRADING AND SHAPING DITCHES (CLEAN DITCH AND PROVIDE POSITIVE DRAINAGE)

EX ROW

PR ROW

EX ROW & A/C

EX A/C

CENTER OF PR BERM

BERM TRANSITIONS TO EXISTING GROUND STA 161+25 TO STA 161+50

EX RAMP B

SB I-57

NB I-57

EX RAMP A

℄ FUTURE RAMP A

℄ FUTURE RAMP B

℄ I-57

℄ U.S. 150

S.N. 010-8021
8' X 3' RC BOX
W. INV. = 763.60
E. INV. = 763.23
N. INV. = 769.67
S. INV. = 769.46

VPI STA. 156+55.72
ELEVATION 800.16
+3.31%
-2.33%

0 50 100 150
SCALE IN FEET

DITCH LEGEND
SP DITCH LT
SP DITCH RT
EX DITCH LT
EX DITCH RT

PR PGL
EX PGL

150.00' V.C.
+25.00 EL. 783.66
+75.00 EL. 787.56
+1.89%
+3.31%
VPI STA. 152+00.00
ELEVATION 785.08

575.00' V.C.
+68.22 EL. 790.64
17'-8½" MIN. VERT. CLEARANCE
17'-6" MIN. VERT. CLEARANCE

+10.05 EL. 791.92
+60.05 EL. 788.81
+00.00 ELEV. 788.08
-2.33%
-1.82%
VPI STA. 160+85.05
ELEVATION 790.17
+43.22 EL. 793.47

+50.00 EL. 768.32 RT
+25.00 EL. 767.40 LT
-0.50%(RT)
-0.43%(LT)

STA 152+58 RT
PIPE DRAINS 12"
STA 152+58 LT
PIPE DRAINS 12"

STA 155+00 RT
PIPE DRAINS 12"
STA 155+00 LT
PIPE DRAINS 12"

+00.00 EL. 766.07 RT
+27.00 EL. 765.23 LT
-5.67%

+44.00 EL. 763.60 RT

+41.00 EL. 764.86 LT
+0.30%(LT)
-0.25% (RT)
-0.30% (RT)

+15.92 EL. 763.23 RT
+84.00 EL. 763.06 RT

STA 159+34 LT
PIPE DRAINS 12"
STA 161+02 LT
PIPE DRAINS 12"
STA 161+02 RT
PIPE DRAINS 12"
STA 159+34 RT
PIPE DRAINS 12"

+50.00 +12.85 EL. 765.79 LT
EL. 766.27 LT
+0.30%(LT)
-1.60%(LT)
-0.30%(RT)
+00.00 EL. 762.10 RT

EX DITCH RT
EX DITCH LT

	150+00	151+00	152+00	153+00	154+00	155+00	156+00	157+00	158+00	159+00	160+00	161+00	162+00	163+00	164+00
EX GROUND	781.04	782.02	783.15	784.16	785.25	786.33	787.28	788.15	788.94	789.61	790.19	790.68	791.03	770.17	771.20	770.39	770.78	784.45	791.34	790.98	790.62	790.16	789.49	788.83	788.08	787.17	786.26	785.17	783.91	782.65
PR GRADE				784.16	785.35	786.76	788.39	790.04	791.65	793.03	794.16	795.04	795.68	796.08	796.23	796.14	795.80	795.22	794.39	793.31	792.15	791.01	789.96	788.87	787.97					

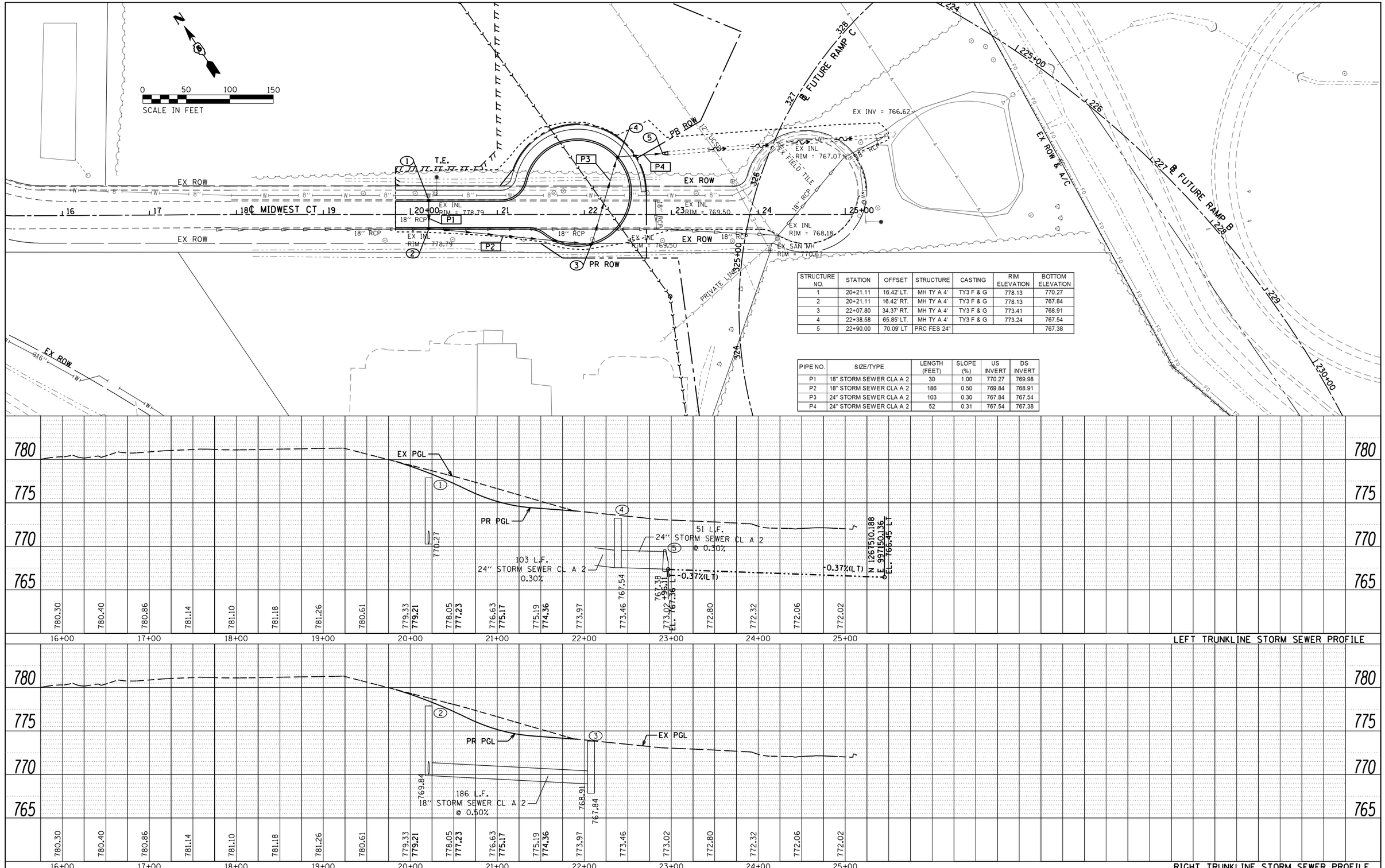
FILE NAME =	D570B98-sht-drain.dgn
	Default
USER NAME = bemery	
PLOT SCALE = 100.0000 ' / in.	
PLOT DATE = 6/4/2019 - 9:31:27 AM	
DESIGNED - MKK	REVISED -
DRAWN - MKK	REVISED -
CHECKED - BJE	REVISED -
DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLANS
U.S. 150

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 150+00.00 | TO STA. 164+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	63
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



STRUCTURE NO.	STATION	OFFSET	STRUCTURE	CASTING	RIM ELEVATION	BOTTOM ELEVATION
1	20+21.11	16.42' LT.	MH TY A 4'	TY3 F & G	778.13	770.27
2	20+21.11	16.42' RT.	MH TY A 4'	TY3 F & G	778.13	767.84
3	22+07.80	34.37' RT.	MH TY A 4'	TY3 F & G	773.41	768.91
4	22+38.58	65.85' LT.	MH TY A 4'	TY3 F & G	773.24	767.54
5	22+90.00	70.09' LT	PRC FES 24"			767.38

PIPE NO.	SIZE/TYPE	LENGTH (FEET)	SLOPE (%)	US INVERT	DS INVERT
P1	18" STORM SEWER CLA A 2	30	1.00	770.27	769.98
P2	18" STORM SEWER CLA A 2	186	0.50	769.84	768.91
P3	24" STORM SEWER CLA A 2	103	0.30	767.84	767.54
P4	24" STORM SEWER CLA A 2	52	0.31	767.54	767.38

PLAN — SURVEYED; PLOTTED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; CADD FILE NAME; NOTE BOOK; NO.; BY; DATE

PROFILE — SURVEYED; PLOTTED; GRADES CHECKED; R.M. NOTED; STRUCTURE NOTATIONS CHKD; NOTE BOOK; NO.; BY; DATE

LEFT TRUNKLINE STORM SEWER PROFILE

RIGHT TRUNKLINE STORM SEWER PROFILE

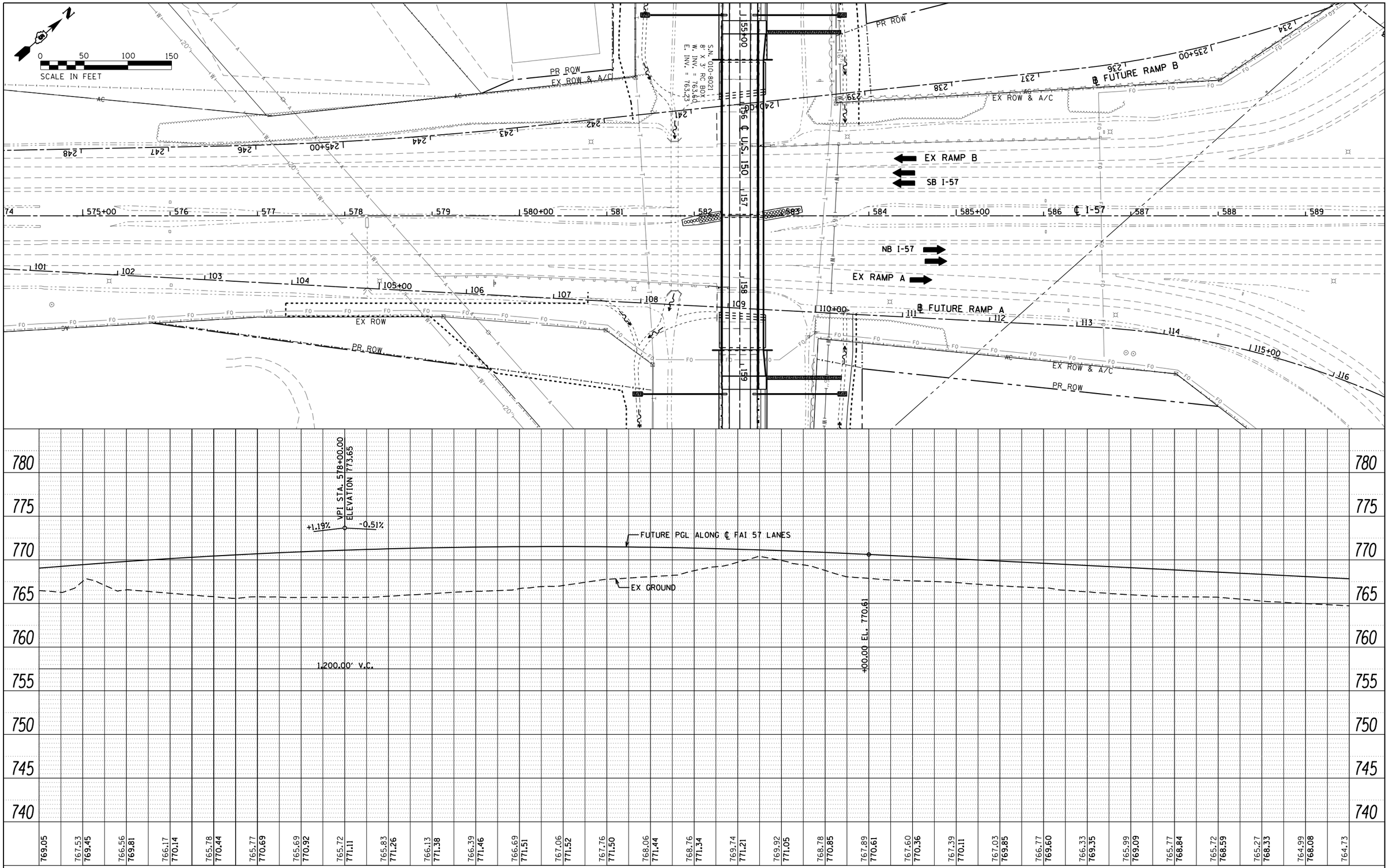
FILE NAME = D570B98-sht-drain.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
Default		CHECKED - CWW	REVISED -
	PLOT SCALE = 100.0000 ' / in.	DRAWN - BJE	REVISED -
	PLOT DATE = 5/6/2019 - 2:54:56 PM	CHECKED - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLANS
MIDWEST COURT

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 16+00.00 | TO STA. 25+08.35

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	64
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		



PLAN
SURVEYED
PLOTTED
CROSSES CHECKED
R/T. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSSES CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

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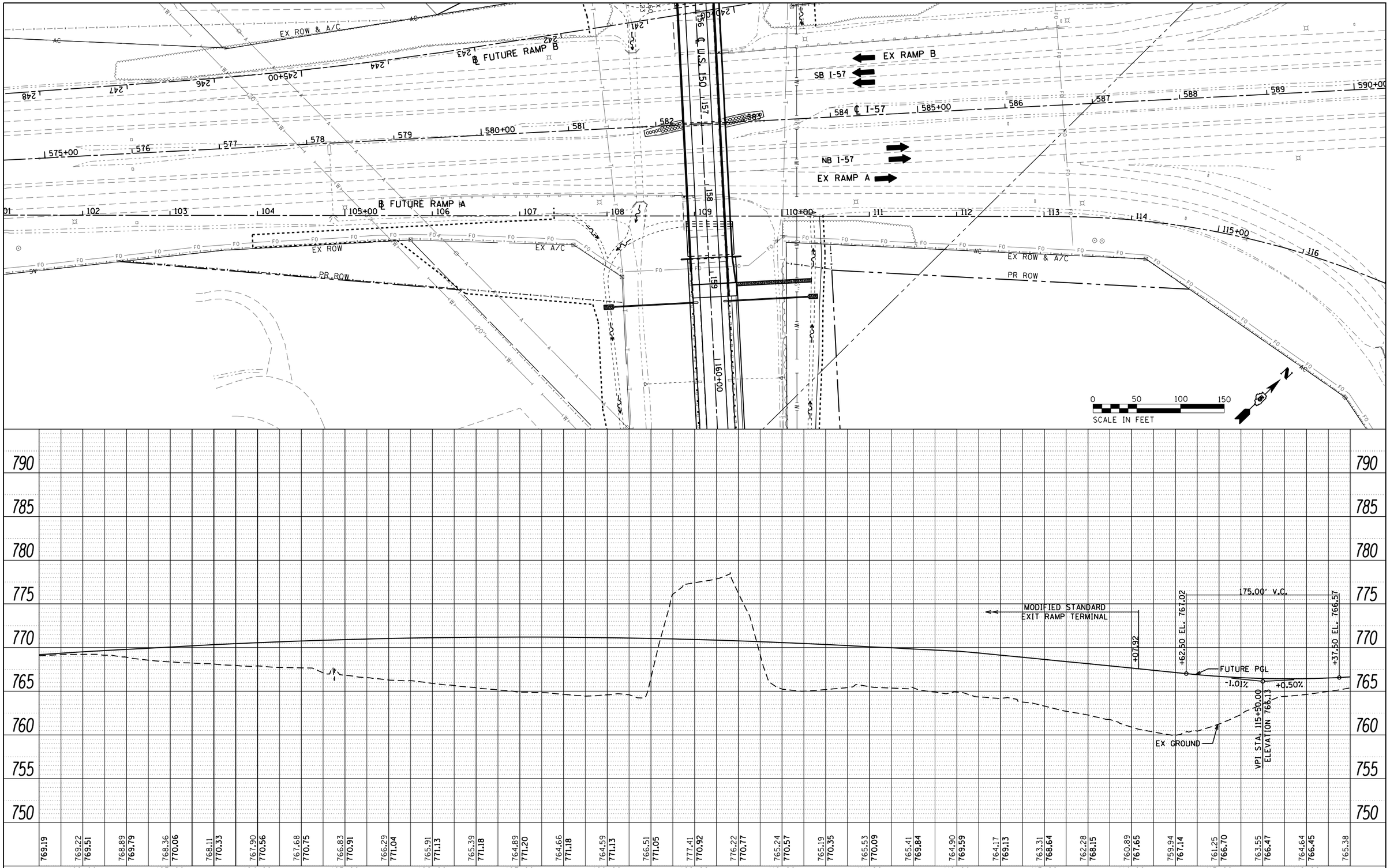
	PLOT DATE = 5/6/2019 - 2:54:56 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLANS
FUTURE I-57 (FOR INFORMATION ONLY)

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 575+00.00 TO STA. 589+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	65
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



PLAN

DATE	BY	
		SURVEYED
		PLOTTED
		ALIGNMENT CHECKED
		RT. OF WAY CHECKED
		CADD FILE NAME
		NOTE BOOK
		NO.

PROFILE

DATE	BY	
		SURVEYED
		PLOTTED
		PROFILE CHECKED
		BM. NOTED
		STRUCTURE NOTATNS CHKD
		NOTE BOOK
		NO.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLANS
FUTURE RAMP A (FOR INFORMATION ONLY)

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 102+00.00 | TO STA. 116+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	66
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

EX RAMP A
EX RAMP B
℄ U.S. 150
EX ROW & A/C
PR ROW
EX ROW
℄ FUTURE RAMP A
℄ FUTURE RAMP B
SB I-57
NB I-57
℄ I-57
S.N. 010-8021
8' X 3' RC BOX
W. INV. = 763.60
E. INV. = 763.23
N
0 50 100 150
SCALE IN FEET

FUTURE PGL
EX GROUND
+17.50 EL. 777.01
465.00' V.C.
+82.50 EL. 769.94
VPI STA. 240+50.00
ELEVATION 768.78
-3.54%
+0.50%
VPI STA. 244+25.00
ELEVATION 770.65
+0.50%
-0.35%
+08.53
STANDARD ENTRANCE
RAMP TERMINAL
+42.50 E.L. 770.24
165.00' V.C.
+07.50 ELL. 770.36

797.12
765.08 795.34
765.50 793.57
765.40 791.80
765.31 790.03
765.17 788.26
765.69 786.49
766.15 784.72
766.57 782.95
767.36 781.18
768.02 779.40
768.80 777.63
769.69 775.91
770.26 774.39
769.76 773.08
779.96 772.00
790.91 771.13
772.48 770.48
766.76 770.04
765.38 769.82
765.07 769.82
765.47 770.03
766.12 770.28
766.49 770.44
766.83 770.48
766.93 770.39
766.98 770.20
767.03 769.98
766.95 769.72
766.94 769.45
766.87

233+00 234+00 235+00 236+00 237+00 238+00 239+00 240+00 241+00 242+00 243+00 244+00 245+00 246+00 247+00

795 790 785 780 775 770 765 760 755

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLANS
FUTURE RAMP B (FOR INFORMATION ONLY)

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 233+00.00 TO STA. 247+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	67
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

LEGEND

- - - -	PERIMETER EROSION BARRIER
▨	EROSION CONTROL BLANKET & SEEDING CLASS 2A
▩	HEAVY DUTY EROSION CONTROL BLANKET & SEEDING CLASS 2A
◈	INLET PROTECTION
◇	TEMPORARY DITCH CHECK
░	SEEDING CLASS 2A & MULCH METHOD 2
▦	STONE RIPRAP CLASS A4

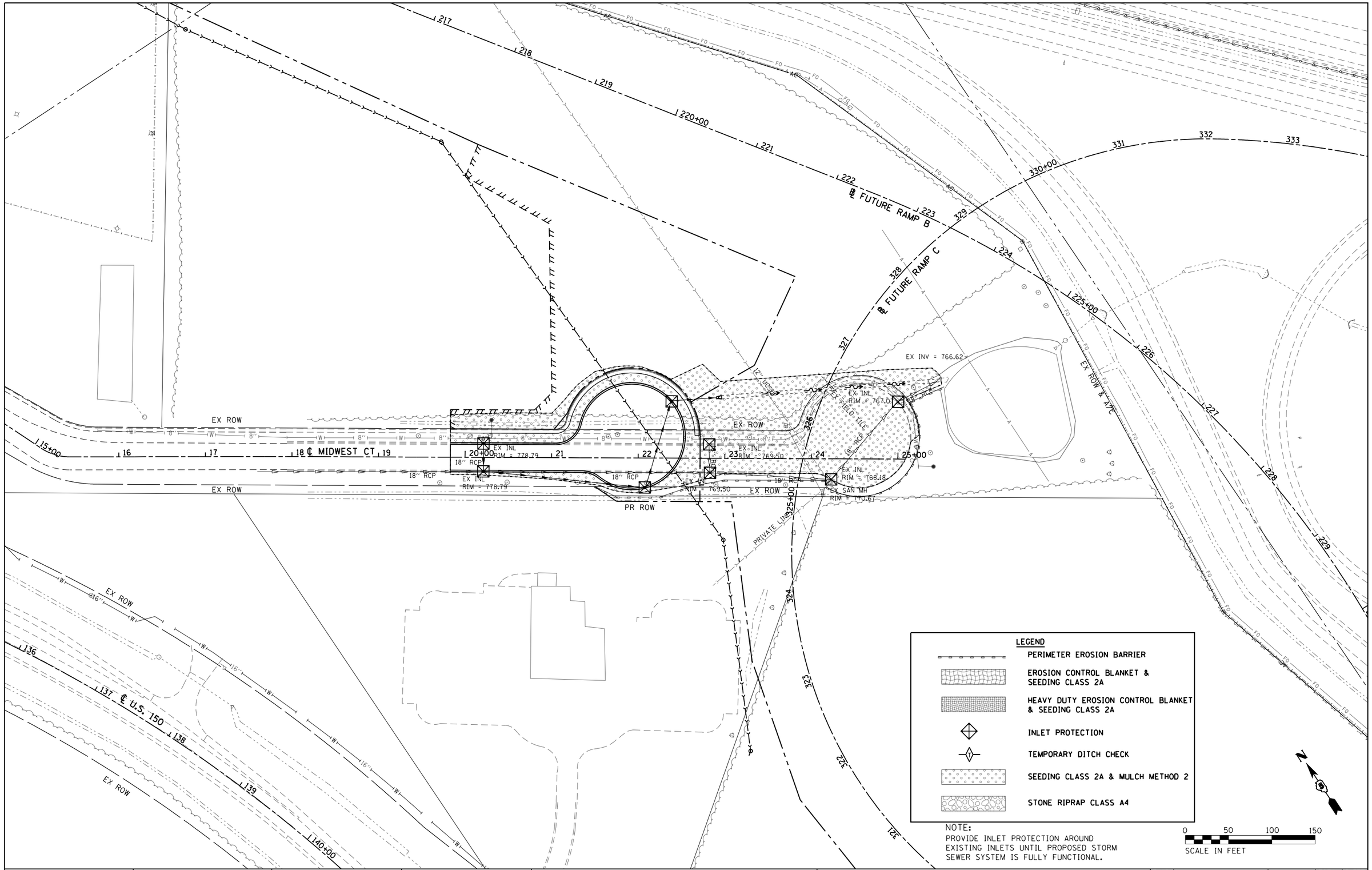
FILE NAME = D570B98-sht-eros.dgn Default	USER NAME = bemery PLOT SCALE = 100.0000 '/ in. PLOT DATE = 6/4/2019 - 9:32:54 AM	DESIGNED - CWW DRAWN - CWW CHECKED - BJE DATE - 04/16/2019	REVISED - REVISED - REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
U.S. 150

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 150+00.00 TO STA. 164+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	68
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		



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Default	PLOT DATE = 5/6/2019 - 2:55:21 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
MIDWEST COURT

SCALE: 1" = 50' | SHEET OF SHEETS | STA. 15+00.00 TO STA. 25+08.35

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	69
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

NOTES;

1. 2-2" DIA. PVC TO BE EMBEDDED IN STRUCTURE FOR FUTURE USE.

LIGHTING SUMMARY OF QUANTITIES

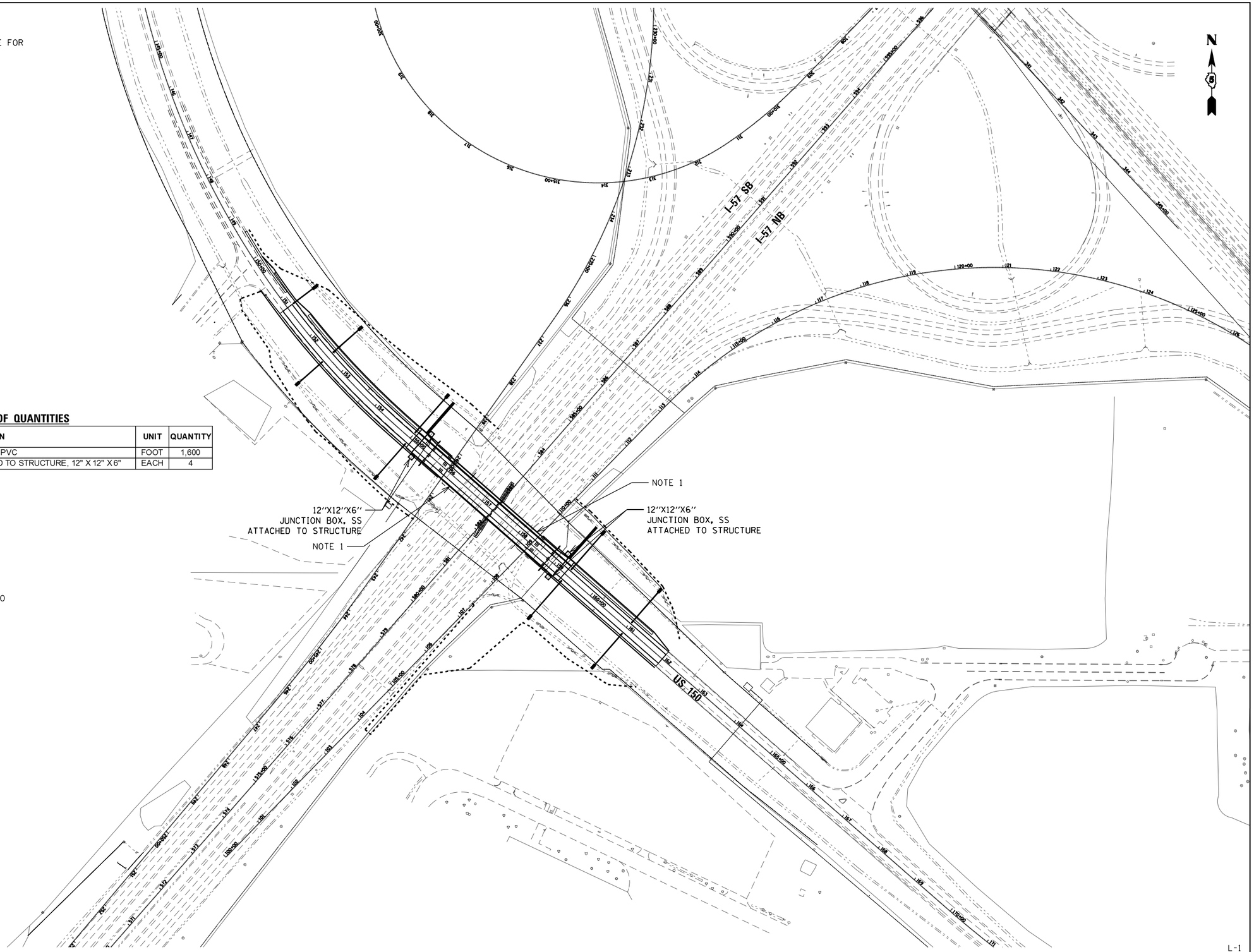
PAY ITEM	DESCRIPTION	UNIT	QUANTITY
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	1,600
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	4

LIGHTING LEGEND

- JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE AS INDICATED ON PLAN

HIGHWAY STANDARDS

812001 RACEWAY EMBEDDED IN STRUCTURE



L-1

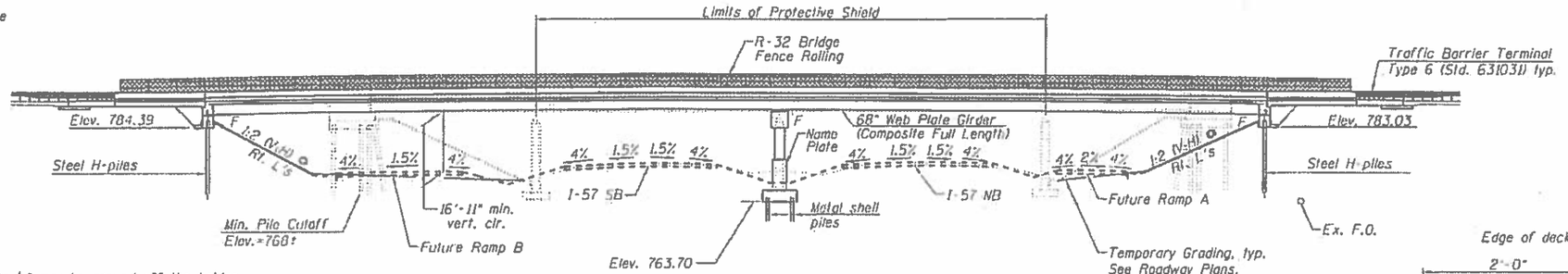
FILE NAME = D570898-sht-light.dgn Default	USER NAME = bemery	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	U.S. 150 OVER I-57 LIGHTING PLAN	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			57	(10-34HB)BR-1	CHAMPAIGN	147	70
	PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -						CONTRACT NO. 70B98	
	PLOT DATE = 6/4/2019 - 9:34:34 AM	DATE -	REVISED -		SCALE: 1" = 100' SHEET OF SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

Bench Mark: Chisled "□" on the concrete foundation of the first light pole north of Bloomington Rd. (US 150) located on the west side of FAI 57, Sta. 583+73, 91' LT. Elev. 767.92.

Existing Structure: S.N. 010-0050 built 1964 as F.A.I. 57 (I-57) Section (10-34HB) at Station 582+50.00. Existing structure is a four-span rolled steel beam structure with open stub abutments on concrete piles and single hammerhead reinforced concrete piers supported on spread footings. In 2000, the structure was widened, the deck replaced, and the existing abutments and piers were widened as Section (10-34HB)BR, 258'-6" back-to-back abutments, 42'-7¾" out-to-out deck. Structure to be removed and replaced using stage construction.

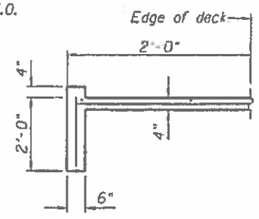
No Salvage

---------- In Elevation View, indicates portion of roadway configuration to be constructed in future contract.

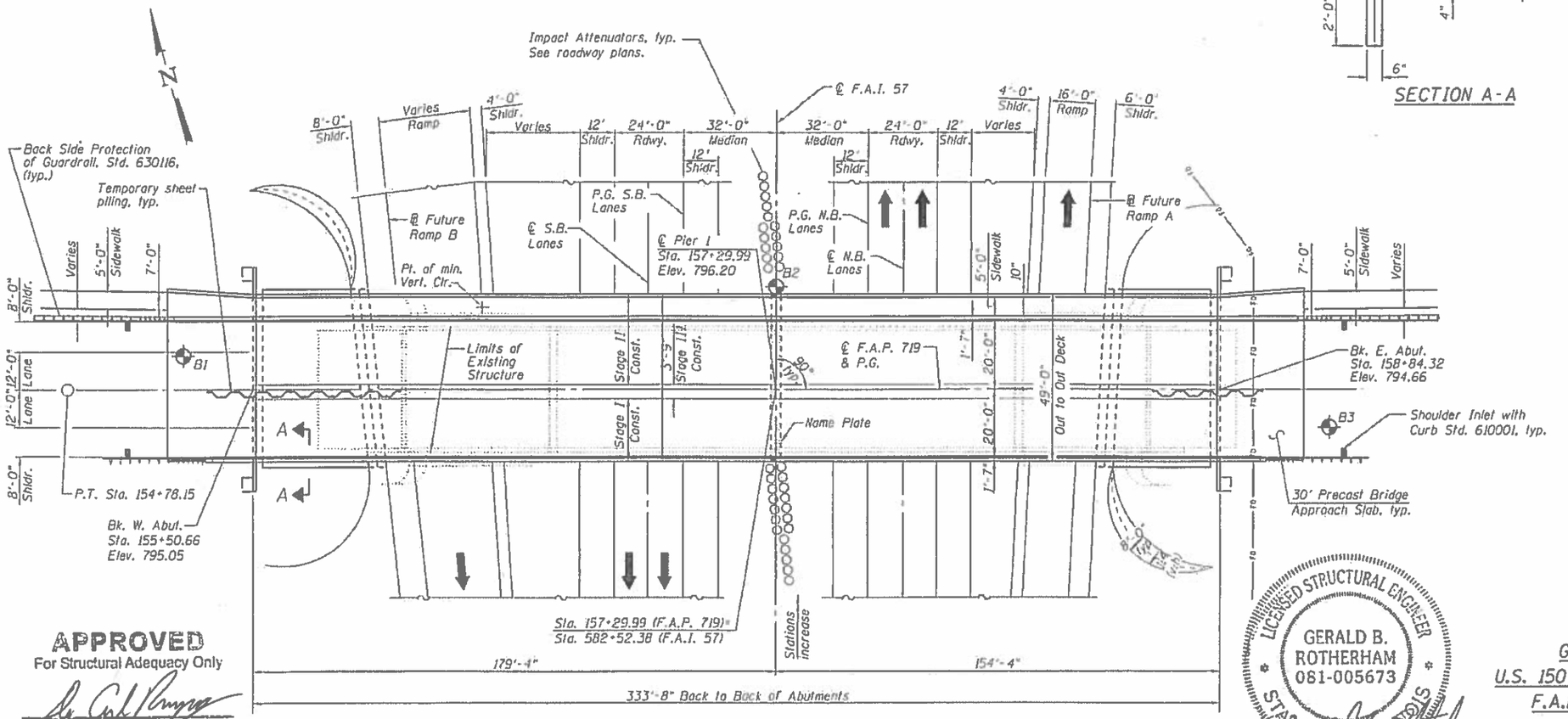


ELEVATION

Note:
Up to ¼" may be ground off the bridge deck and the bridge approach slabs.



SECTION A-A



*PLAN

*Future roadway configurations of F.A.I 57, Ramp B and Ramp A shown.

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims.

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
f'c = 4,000 psi (superstructure concrete)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.135g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.234g
Soil Site Class = D

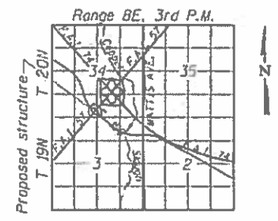
STATION 157+29.99
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 719 - SEC. (10-34HB)BR-1
LOADING HL-93
STRUCTURE NO. 010-1050

NAME PLATE

See Std. 515001

F.A.P. 719 CURVE DATA

PI STA. = 149+64.98
Δ = 35° 19' 30" (LT)
D = 3° 19' 43"
R = 1,721.38'
T = 548.12'
L = 1,061.30'
E = 85.16'
e = 3.4%
T.R. = 36'
S.E. RUN = 82'
P.C. STA. = 144+16.86
P.T. STA. = 154+78.15
S.E. Removed from Sta. 154+32.00 to Sta. 155+50.00



LOCATION SKETCH

LICENSED STRUCTURAL ENGINEER
GERALD B. ROTHERHAM
081-005673
STATE OF ILLINOIS

04/15/2019
Expires: 11/30/2020

GENERAL PLAN & ELEVATION
U.S. 150 (BLOOMINGTON RD.) OVER F.A.I. 57
F.A.P. RT 719 - SEC (10-34HB)BR-1
CHAMPAIGN COUNTY
STATION 157+29.99
STRUCTURE NO. 010-1050

FILE NAME = 81018SB-78897-B01-GPE.dgn	USER NAME =	DESIGNED - AAH	REVISED -	
BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC		CHECKED - BWP	REVISED -	
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	PLOT DATE = 4/15/2019	CHECKED - BWP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	71
		CONTRACT NO. 70898		
		ILLINOIS FED. AID PROJECT		

INDEX OF SHEETS

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, hot dip galvanized bolts. Bolts $\frac{7}{8}$ in. ϕ, holes $\frac{15}{16}$ in. ϕ, unless otherwise noted.

Calculated weight of Structural Steel: AASHTO M 270 Gr. 50 = 684.710 lbs.
AASHTO M 270 Gr. 36 = 41.820 lbs.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

All structural Steel shall be metallized. The metallized areas shall be painted with System 1. Exterior fascia and bottom of bottom flange areas of exterior girders shall be metallized and shop painted (System 3). Cost included in Furnishing and Erecting Structural Steel. See Special Provisons.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

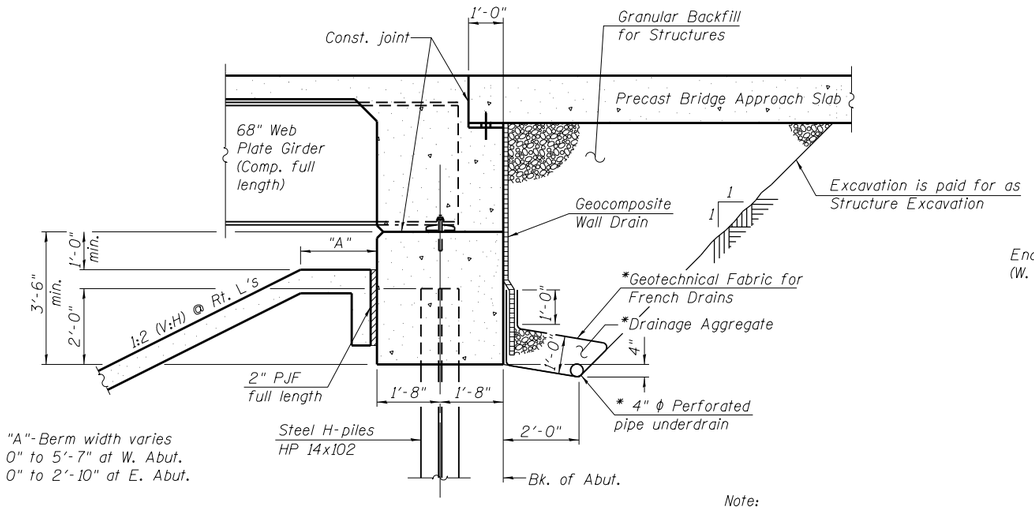
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:

1) At least 72 hours shall have elapsed from the end of the previous pour.
2) The concrete strength shall have attained a minimum flexural strength of 675 psi or a minimum compressive strength of 4000 psi.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Protective Shield	Sq. Yd.	783		783
Structure Excavation	Cu. Yd.		419	419
Concrete Structures	Cu. Yd.		222.6	222.6
Concrete Superstructure	Cu. Yd.	623.9		623.9
Protective Coat	Sq. Yd.	2,552		2,552
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	5,418		5,418
Reinforcement Bars, Epoxy Coated	Pound	161,860	29,390	191,250
Bar Splicers	Each	1,251	175	1,426
Mechanical Splicers	Each		128	128
Bridge Fence Railing	Foot	390		390
Parapet Railing	Foot	390		390
Slope Wall 4 Inch	Sq. Yd.		437	437
Furnishing Steel Piles HP 14x102	Foot		1,648	1,648
Furnishing Metal Shell Piles 14"x0.250"	Foot		1,742	1,742
Driving Piles	Foot		3,390	3,390
Test Pile Metal Shells	Each		1	1
Test Pile Steel HP 14x102	Each		2	2
Name Plates	Each		1	1
Preformed Joint Strip Seal	Foot	102		102
Anchor Bolts, 1"	Each		28	28
Anchor Bolts, 1½"	Each		14	14
Temporary Sheet Piling	Sq. Ft.		3,411	3,411
Geocomposite Wall Drain	Sq. Yd.		134	134
Concrete Wearing Surface, 5"	Sq. Yd.	332		332
Precast Bridge Approach Slab	Sq. Ft.	2,830		2,830
Granular Backfill for Structures	Cu. Yd.		290	290
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	1,044		1,044
Diamond Grinding (Bridge Section)	Sq. Yd.	1,687		1,687
Pipe Underdrains for Structures 4"	Foot		184	184
Powder Coating of Parapet Railing and Bridge Fence Railing	L Sum	1		1



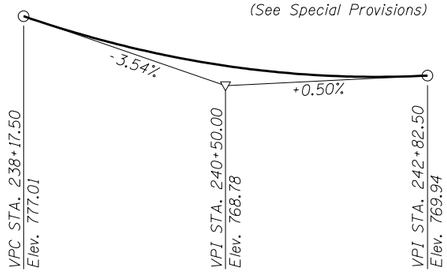
SECTION THRU INTEGRAL ABUTMENT

(Horizontal Dimensions @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures, 4". (See Special Provisions)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall extension except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

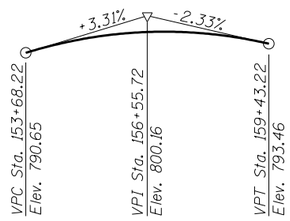
DECK POURING SEQUENCE



LVC = 465'

PROFILE GRADE FUTURE RAMP B

(along ℄ roadway)

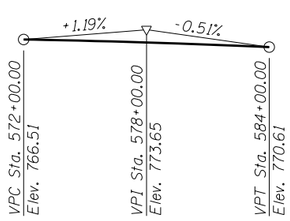


LVC = 575'

PROFILE GRADE F.A.P. 719

(along ℄ roadway)

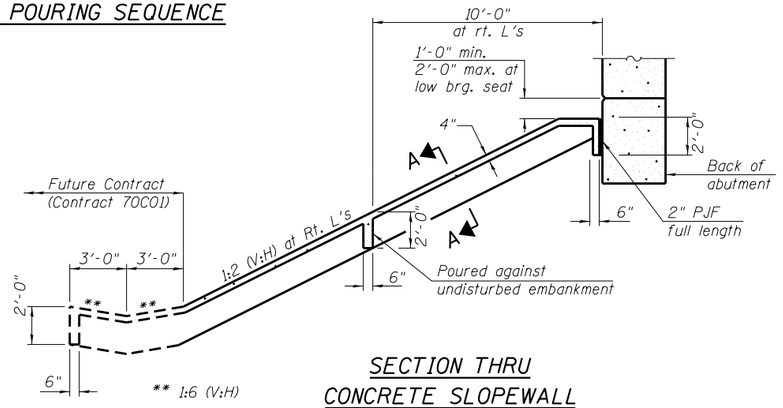
The profile grade shows the final elevations after grinding.



LVC = 1,200'

FUTURE PROFILE GRADE F.A.I. 57

(along ℄ roadway)



SECTION THRU CONCRETE SLOPEWALL

Slopewall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

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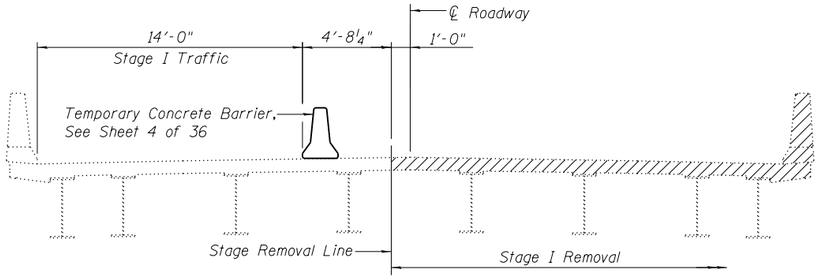
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE 618.997.9190		CHECKED - BWP	REVISED -
	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -

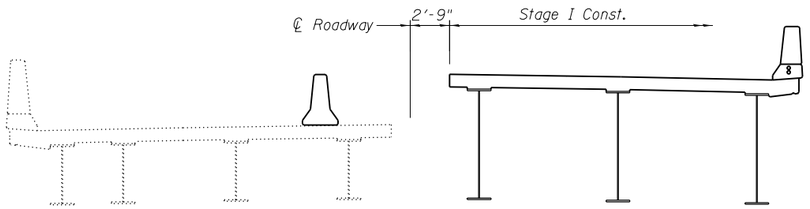
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 010-1050
SHEET NO. 2 OF 36 SHEETS

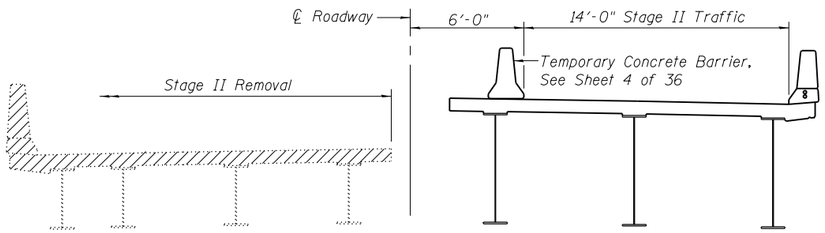
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	72
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



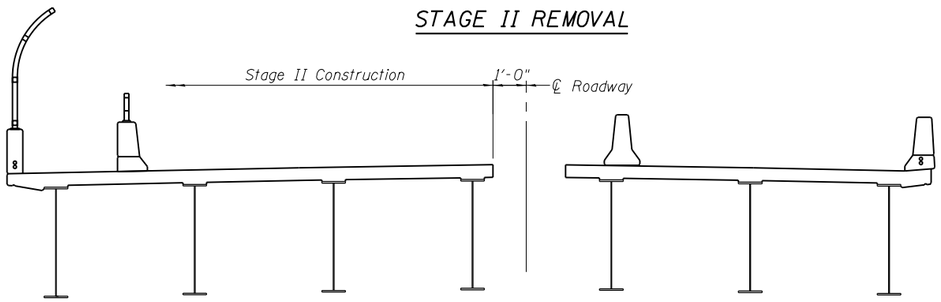
STAGE I REMOVAL



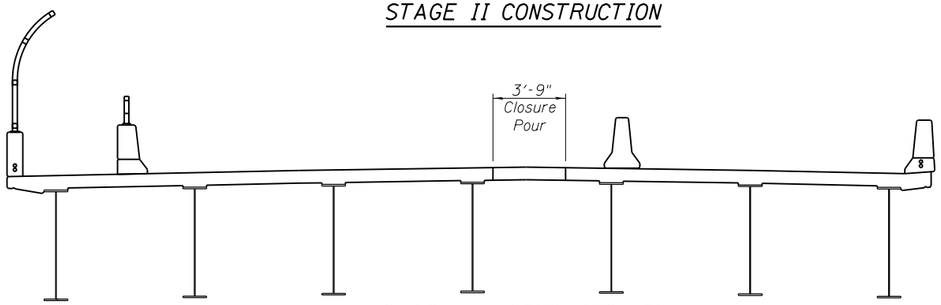
STAGE I CONSTRUCTION



STAGE II REMOVAL



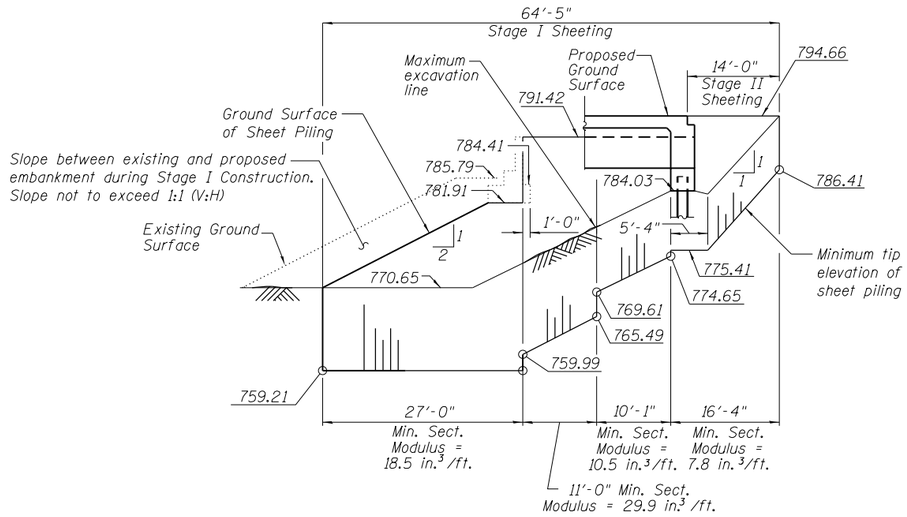
STAGE II CONSTRUCTION



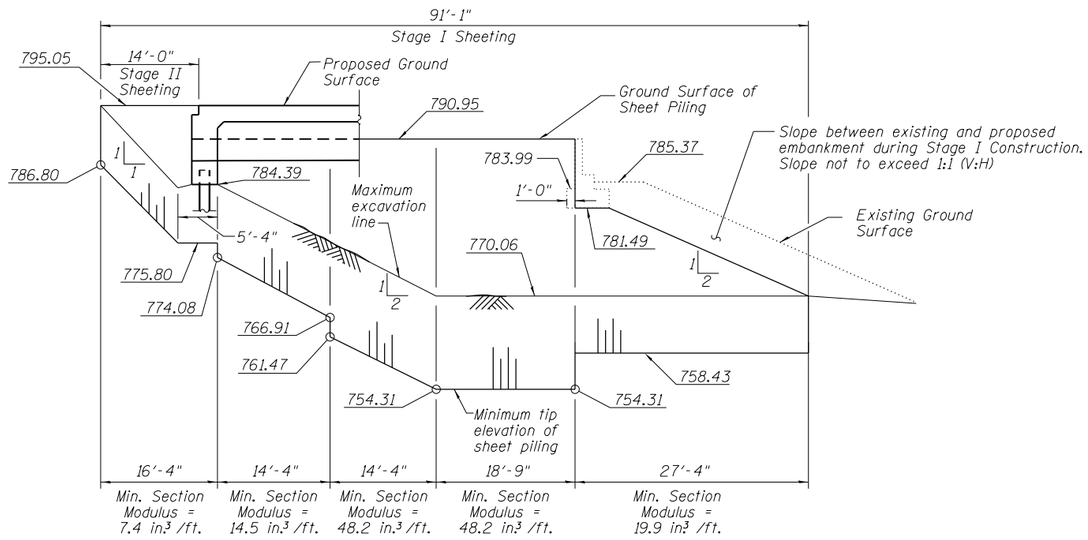
STAGE III CONSTRUCTION

Notes:
All staging cross sections are looking East.
For quantity of Temporary Concrete Barrier, see roadway plans.
Hatched area indicates Removal of Existing Structures.

Notes:
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.



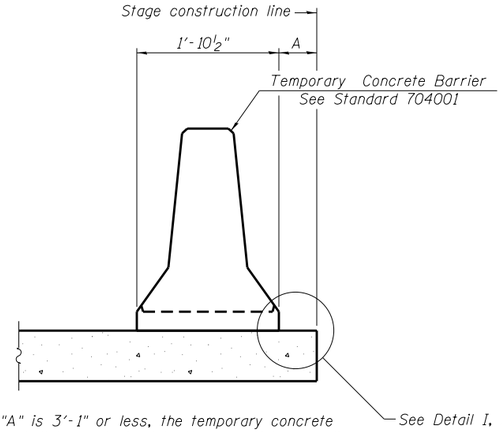
TEMPORARY SHEET PILING
AT EAST ABUTMENT



TEMPORARY SHEET PILING
AT WEST ABUTMENT

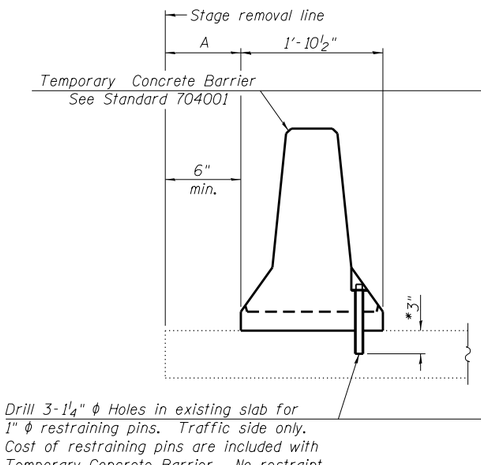
FILE NAME = 0101050-70897-003-Stg Const Details.dgn	USER NAME =	DESIGNED - AAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS STRUCTURE NO. 010-1050 SHEET NO. 3 OF 36 SHEETS
BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MAHOMET, ILLINOIS 61853 PHONE - 618.897.9190		CHECKED - BWP	REVISED -		
	PLOT SCALE =	DRAWN - BJV	REVISED -		
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	73
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		



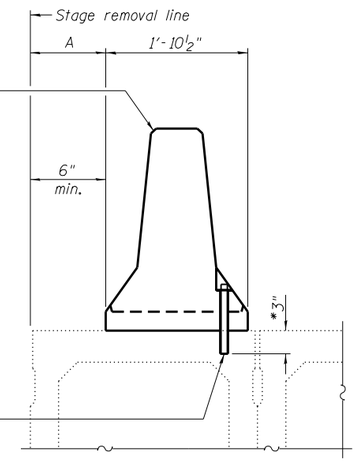
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



Drill 3-1¼" ϕ Holes in existing slab for 1" ϕ 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".

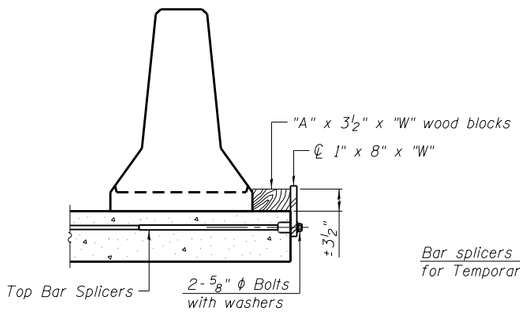
EXISTING SLAB



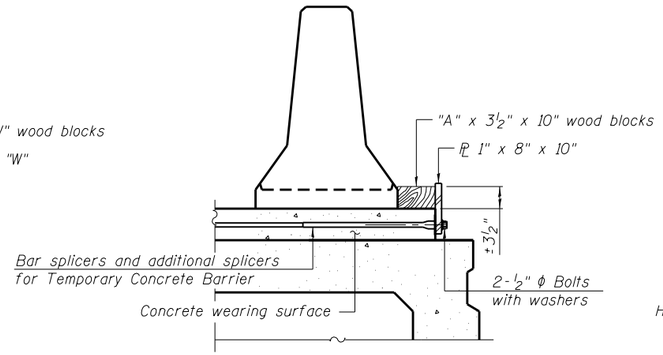
* When hot-mix asphalt wearng surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

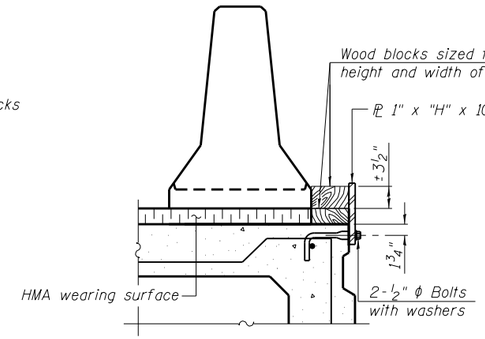
SECTIONS THRU SLAB OR DECK BEAM



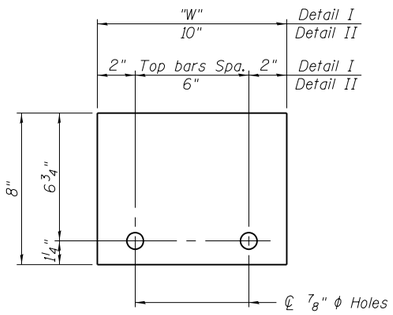
DETAIL I



DETAIL II

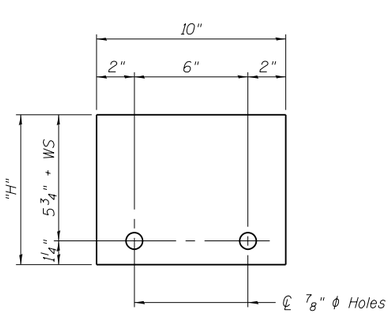


DETAIL III



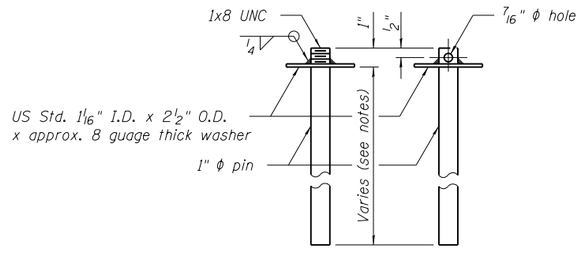
STEEL RETAINER ℄ 1" x 8" x "W"

(Detail I and II)

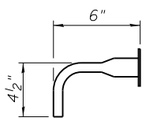


STEEL RETAINER ℄ 1" x "H" x 10"

(Detail III)



RESTRAINING PIN



BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

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

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

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

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

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

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

R-27

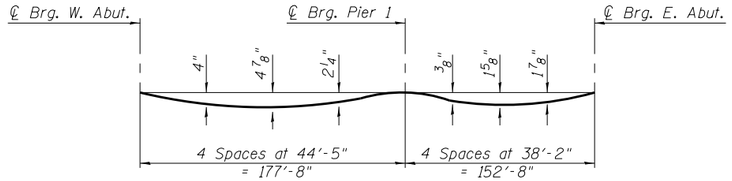
8-11-2017

FILE NAME = 0101050-70897-004-Temporary Concrete Barrier	USER NAME =	DESIGNED - AAH	REVISED -
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.9190		CHECKED - BWP	REVISED -
	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 010-1050
SHEET NO. 4 OF 36 SHEETS

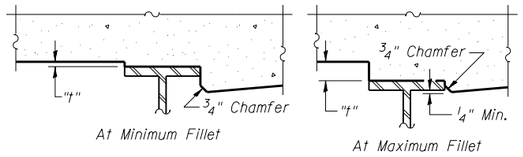
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	74
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only).

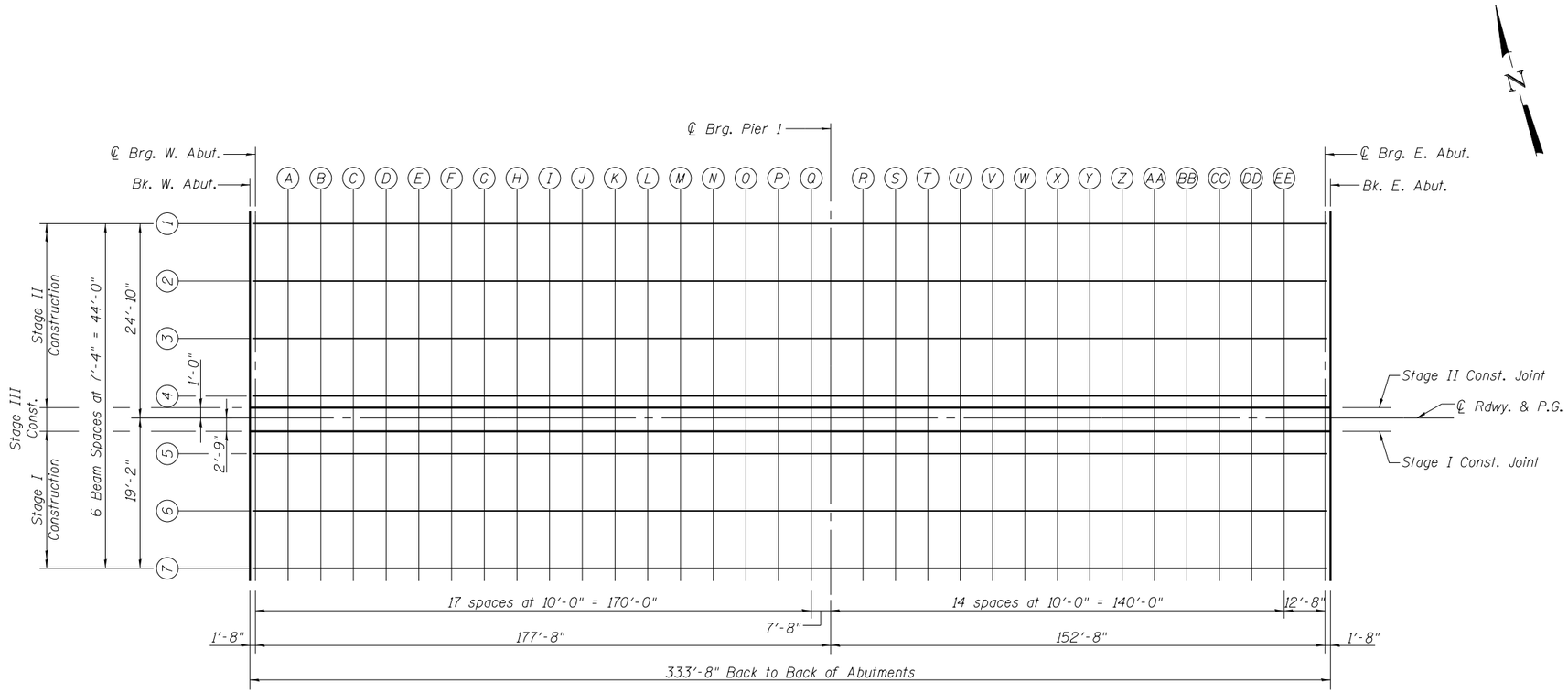
Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflection and grinding as shown on sheets 6 thru 9 of 36.



FILLET HEIGHTS

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding" shown on sheets 6 thru 9 of 36, minus slab thickness, equals the fillet heights "t" above top flange of beams.

The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown on Sheets 6 thru 9 of 36. For grinding the deck, see Special Provisions.



PLAN

FILE NAME = 0101050-70897-205-TOS Elevations.dgn	USER NAME =	DESIGNED - AAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF SLAB ELEVATIONS STRUCTURE NO. 010-1050	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.9190		CHECKED - BWP	REVISED -			719	(10-34HB)BR-1	CHAMPAIGN	147	75
	PLOT SCALE =	DRAWN - BJV	REVISED -					CONTRACT NO. 70B98		
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -		SHEET NO. 5 OF 36 SHEETS		ILLINOIS	FED. AID PROJECT		

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	155+50.66	-24.83	794.60	794.62
℄ Brg. W. Abut	155+52.33	-24.83	794.62	794.64
A	155+62.33	-24.83	794.77	794.88
B	155+72.33	-24.83	794.90	795.10
C	155+82.33	-24.83	795.03	795.30
D	155+92.33	-24.83	795.14	795.48
E	156+02.33	-24.83	795.25	795.64
F	156+12.33	-24.83	795.35	795.77
G	156+22.33	-24.83	795.43	795.87
H	156+32.33	-24.83	795.51	795.94
I	156+42.33	-24.83	795.58	796.00
J	156+52.33	-24.83	795.63	796.02
K	156+62.33	-24.83	795.68	796.02
L	156+72.33	-24.83	795.72	796.01
M	156+82.33	-24.83	795.75	795.98
N	156+92.33	-24.83	795.77	795.94
O	157+02.33	-24.83	795.77	795.89
P	157+12.33	-24.83	795.77	795.84
Q	157+22.33	-24.83	795.76	795.80
℄ Brg. Pier 1	157+29.99	-24.83	795.74	795.77
R	157+39.99	-24.83	795.72	795.73
S	157+49.99	-24.83	795.68	795.70
T	157+59.99	-24.83	795.63	795.66
U	157+69.99	-24.83	795.57	795.63
V	157+79.99	-24.83	795.50	795.59
W	157+89.99	-24.83	795.43	795.54
X	157+99.99	-24.83	795.34	795.49
Y	158+09.99	-24.83	795.24	795.41
Z	158+19.99	-24.83	795.13	795.32
AA	158+29.99	-24.83	795.02	795.20
BB	158+39.99	-24.83	794.89	795.06
CC	158+49.99	-24.83	794.75	794.90
DD	158+59.99	-24.83	794.61	794.72
EE	158+69.99	-24.83	794.45	794.52
℄ Brg. E. Abut.	158+82.65	-24.83	794.24	794.26
Bk. E. Abut.	158+84.32	-24.83	794.21	794.23

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	155+50.66	-17.50	794.75	794.77
℄ Brg. W. Abut	155+52.33	-17.50	794.77	794.79
A	155+62.33	-17.50	794.92	795.03
B	155+72.33	-17.50	795.05	795.25
C	155+82.33	-17.50	795.18	795.45
D	155+92.33	-17.50	795.30	795.64
E	156+02.33	-17.50	795.40	795.79
F	156+12.33	-17.50	795.50	795.92
G	156+22.33	-17.50	795.59	796.03
H	156+32.33	-17.50	795.66	796.10
I	156+42.33	-17.50	795.73	796.15
J	156+52.33	-17.50	795.79	796.17
K	156+62.33	-17.50	795.83	796.18
L	156+72.33	-17.50	795.87	796.16
M	156+82.33	-17.50	795.90	796.13
N	156+92.33	-17.50	795.92	796.09
O	157+02.33	-17.50	795.93	796.05
P	157+12.33	-17.50	795.92	796.00
Q	157+22.33	-17.50	795.91	795.96
℄ Brg. Pier 1	157+29.99	-17.50	795.90	795.92
R	157+39.99	-17.50	795.87	795.88
S	157+49.99	-17.50	795.83	795.85
T	157+59.99	-17.50	795.78	795.82
U	157+69.99	-17.50	795.72	795.78
V	157+79.99	-17.50	795.66	795.74
W	157+89.99	-17.50	795.58	795.70
X	157+99.99	-17.50	795.49	795.64
Y	158+09.99	-17.50	795.39	795.56
Z	158+19.99	-17.50	795.29	795.47
AA	158+29.99	-17.50	795.17	795.35
BB	158+39.99	-17.50	795.04	795.21
CC	158+49.99	-17.50	794.91	795.06
DD	158+59.99	-17.50	794.76	794.87
EE	158+69.99	-17.50	794.60	794.68
℄ Brg. E. Abut.	158+82.65	-17.50	794.39	794.41
Bk. E. Abut.	158+84.32	-17.50	794.36	794.38

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	155+50.66	-10.17	794.89	794.91
℄ Brg. W. Abut	155+52.33	-10.17	794.92	794.94
A	155+62.33	-10.17	795.06	795.17
B	155+72.33	-10.17	795.20	795.40
C	155+82.33	-10.17	795.32	795.60
D	155+92.33	-10.17	795.44	795.78
E	156+02.33	-10.17	795.55	795.94
F	156+12.33	-10.17	795.64	796.06
G	156+22.33	-10.17	795.73	796.17
H	156+32.33	-10.17	795.81	796.24
I	156+42.33	-10.17	795.87	796.29
J	156+52.33	-10.17	795.93	796.31
K	156+62.33	-10.17	795.98	796.32
L	156+72.33	-10.17	796.02	796.30
M	156+82.33	-10.17	796.04	796.27
N	156+92.33	-10.17	796.06	796.23
O	157+02.33	-10.17	796.07	796.19
P	157+12.33	-10.17	796.07	796.14
Q	157+22.33	-10.17	796.06	796.10
℄ Brg. Pier 1	157+29.99	-10.17	796.04	796.06
R	157+39.99	-10.17	796.01	796.03
S	157+49.99	-10.17	795.97	795.99
T	157+59.99	-10.17	795.93	795.96
U	157+69.99	-10.17	795.87	795.93
V	157+79.99	-10.17	795.80	795.89
W	157+89.99	-10.17	795.72	795.84
X	157+99.99	-10.17	795.63	795.78
Y	158+09.99	-10.17	795.54	795.71
Z	158+19.99	-10.17	795.43	795.61
AA	158+29.99	-10.17	795.31	795.50
BB	158+39.99	-10.17	795.19	795.36
CC	158+49.99	-10.17	795.05	795.20
DD	158+59.99	-10.17	794.90	795.02
EE	158+69.99	-10.17	794.75	794.82
℄ Brg. E. Abut.	158+82.65	-10.17	794.53	794.55
Bk. E. Abut.	158+84.32	-10.17	794.50	794.53

FILE NAME = 0101050-70897-006-TOS Elevations.dgn | USER NAME = | DESIGNED - AAH | REVISED -
CHECKED - BWP | REVISED -
PLOT SCALE = | DRAWN - BJV | REVISED -
PLOT DATE = 4/16/2019 | CHECKED - BWP | REVISED -

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE - 618.997.9190

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 010-1050
SHEET NO. 6 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	76
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	155+50.66	-2.83	795.01	795.03
℄ Brg. W. Abut	155+52.33	-2.83	795.03	795.05
A	155+62.33	-2.83	795.18	795.29
B	155+72.33	-2.83	795.31	795.51
C	155+82.33	-2.83	795.44	795.71
D	155+92.33	-2.83	795.55	795.89
E	156+02.33	-2.83	795.66	796.05
F	156+12.33	-2.83	795.76	796.18
G	156+22.33	-2.83	795.84	796.29
H	156+32.33	-2.83	795.92	796.36
I	156+42.33	-2.83	795.99	796.41
J	156+52.33	-2.83	796.04	796.43
K	156+62.33	-2.83	796.09	796.43
L	156+72.33	-2.83	796.13	796.42
M	156+82.33	-2.83	796.16	796.39
N	156+92.33	-2.83	796.18	796.35
O	157+02.33	-2.83	796.18	796.30
P	157+12.33	-2.83	796.18	796.25
Q	157+22.33	-2.83	796.17	796.21
℄ Brg. Pier 1	157+29.99	-2.83	796.16	796.18
R	157+39.99	-2.83	796.13	796.14
S	157+49.99	-2.83	796.09	796.11
T	157+59.99	-2.83	796.04	796.07
U	157+69.99	-2.83	795.98	796.04
V	157+79.99	-2.83	795.91	796.00
W	157+89.99	-2.83	795.84	795.96
X	157+99.99	-2.83	795.75	795.90
Y	158+09.99	-2.83	795.65	795.82
Z	158+19.99	-2.83	795.54	795.73
AA	158+29.99	-2.83	795.43	795.61
BB	158+39.99	-2.83	795.30	795.47
CC	158+49.99	-2.83	795.16	795.31
DD	158+59.99	-2.83	795.02	795.13
EE	158+69.99	-2.83	794.86	794.93
℄ Brg. E. Abut.	158+82.65	-2.83	794.65	794.67
Bk. E. Abut.	158+84.32	-2.83	794.62	794.64

STAGE II CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	155+50.66	-1.00	795.03	795.06
℄ Brg. W. Abut	155+52.33	-1.00	795.06	795.08
A	155+62.33	-1.00	795.21	795.32
B	155+72.33	-1.00	795.34	795.54
C	155+82.33	-1.00	795.47	795.74
D	155+92.33	-1.00	795.58	795.92
E	156+02.33	-1.00	795.69	796.08
F	156+12.33	-1.00	795.79	796.21
G	156+22.33	-1.00	795.87	796.31
H	156+32.33	-1.00	795.95	796.38
I	156+42.33	-1.00	796.02	796.44
J	156+52.33	-1.00	796.07	796.46
K	156+62.33	-1.00	796.12	796.46
L	156+72.33	-1.00	796.16	796.45
M	156+82.33	-1.00	796.19	796.42
N	156+92.33	-1.00	796.20	796.37
O	157+02.33	-1.00	796.21	796.33
P	157+12.33	-1.00	796.21	796.28
Q	157+22.33	-1.00	796.20	796.24
℄ Brg. Pier 1	157+29.99	-1.00	796.18	796.20
R	157+39.99	-1.00	796.16	796.17
S	157+49.99	-1.00	796.12	796.14
T	157+59.99	-1.00	796.07	796.10
U	157+69.99	-1.00	796.01	796.07
V	157+79.99	-1.00	795.94	796.03
W	157+89.99	-1.00	795.86	795.98
X	157+99.99	-1.00	795.78	795.92
Y	158+09.99	-1.00	795.68	795.85
Z	158+19.99	-1.00	795.57	795.76
AA	158+29.99	-1.00	795.46	795.64
BB	158+39.99	-1.00	795.33	795.50
CC	158+49.99	-1.00	795.19	795.34
DD	158+59.99	-1.00	795.05	795.16
EE	158+69.99	-1.00	794.89	794.96
℄ Brg. E. Abut.	158+82.65	-1.00	794.68	794.70
Bk. E. Abut.	158+84.32	-1.00	794.65	794.67

℄ ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	155+50.66	0.00	795.05	795.07
℄ Brg. W. Abut	155+52.33	0.00	795.08	795.10
A	155+62.33	0.00	795.22	795.33
B	155+72.33	0.00	795.36	795.56
C	155+82.33	0.00	795.48	795.76
D	155+92.33	0.00	795.60	795.94
E	156+02.33	0.00	795.70	796.09
F	156+12.33	0.00	795.80	796.22
G	156+22.33	0.00	795.89	796.33
H	156+32.33	0.00	795.96	796.40
I	156+42.33	0.00	796.03	796.45
J	156+52.33	0.00	796.09	796.47
K	156+62.33	0.00	796.14	796.48
L	156+72.33	0.00	796.17	796.46
M	156+82.33	0.00	796.20	796.43
N	156+92.33	0.00	796.22	796.39
O	157+02.33	0.00	796.23	796.35
P	157+12.33	0.00	796.23	796.30
Q	157+22.33	0.00	796.22	796.26
℄ Brg. Pier 1	157+29.99	0.00	796.20	796.22
R	157+39.99	0.00	796.17	796.19
S	157+49.99	0.00	796.13	796.15
T	157+59.99	0.00	796.08	796.12
U	157+69.99	0.00	796.03	796.09
V	157+79.99	0.00	795.96	796.05
W	157+89.99	0.00	795.88	796.00
X	157+99.99	0.00	795.79	795.94
Y	158+09.99	0.00	795.69	795.86
Z	158+19.99	0.00	795.59	795.77
AA	158+29.99	0.00	795.47	795.65
BB	158+39.99	0.00	795.34	795.52
CC	158+49.99	0.00	795.21	795.36
DD	158+59.99	0.00	795.06	795.18
EE	158+69.99	0.00	794.90	794.98
℄ Brg. E. Abut.	158+82.65	0.00	794.69	794.71
Bk. E. Abut.	158+84.32	0.00	794.66	794.68

FILE NAME = 0101050-70897-007-TOS Elevations.dgn | USER NAME = | DESIGNED - AAH | REVISED -
CHECKED - BWP | REVISED -
PLOT SCALE = | DRAWN - BJV | REVISED -
PLOT DATE = 4/16/2019 | CHECKED - BWP | REVISED -

BFW
BACON | FARMER | WORKMAN
ENGINEERING & TESTING, INC.
403 NORTH COURT STREET
MARION, ILLINOIS 62959
PHONE - 618.997.9190

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 010-1050
SHEET NO. 7 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	77
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

STAGE I CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	155+50.66	2.75	795.01	795.03
℄ Brg. W. Abut	155+52.33	2.75	795.03	795.05
A	155+62.33	2.75	795.18	795.29
B	155+72.33	2.75	795.31	795.51
C	155+82.33	2.75	795.44	795.71
D	155+92.33	2.75	795.56	795.89
E	156+02.33	2.75	795.66	796.05
F	156+12.33	2.75	795.76	796.18
G	156+22.33	2.75	795.84	796.29
H	156+32.33	2.75	795.92	796.36
I	156+42.33	2.75	795.99	796.41
J	156+52.33	2.75	796.05	796.43
K	156+62.33	2.75	796.09	796.43
L	156+72.33	2.75	796.13	796.42
M	156+82.33	2.75	796.16	796.39
N	156+92.33	2.75	796.18	796.35
O	157+02.33	2.75	796.19	796.30
P	157+12.33	2.75	796.18	796.25
Q	157+22.33	2.75	796.17	796.21
℄ Brg. Pier 1	157+29.99	2.75	796.16	796.18
R	157+39.99	2.75	796.13	796.14
S	157+49.99	2.75	796.09	796.11
T	157+59.99	2.75	796.04	796.08
U	157+69.99	2.75	795.98	796.04
V	157+79.99	2.75	795.91	796.00
W	157+89.99	2.75	795.84	795.96
X	157+99.99	2.75	795.75	795.90
Y	158+09.99	2.75	795.65	795.82
Z	158+19.99	2.75	795.54	795.73
AA	158+29.99	2.75	795.43	795.61
BB	158+39.99	2.75	795.30	795.47
CC	158+49.99	2.75	795.16	795.31
DD	158+59.99	2.75	795.02	795.13
EE	158+69.99	2.75	794.86	794.94
℄ Brg. E. Abut.	158+82.65	2.75	794.65	794.67
Bk. E. Abut.	158+84.32	2.75	794.62	794.64

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	155+50.66	4.50	794.98	795.00
℄ Brg. W. Abut	155+52.33	4.50	795.01	795.03
A	155+62.33	4.50	795.15	795.26
B	155+72.33	4.50	795.29	795.48
C	155+82.33	4.50	795.41	795.69
D	155+92.33	4.50	795.53	795.87
E	156+02.33	4.50	795.63	796.02
F	156+12.33	4.50	795.73	796.15
G	156+22.33	4.50	795.82	796.26
H	156+32.33	4.50	795.89	796.33
I	156+42.33	4.50	795.96	796.38
J	156+52.33	4.50	796.02	796.40
K	156+62.33	4.50	796.07	796.41
L	156+72.33	4.50	796.10	796.39
M	156+82.33	4.50	796.13	796.36
N	156+92.33	4.50	796.15	796.32
O	157+02.33	4.50	796.16	796.28
P	157+12.33	4.50	796.16	796.23
Q	157+22.33	4.50	796.14	796.19
℄ Brg. Pier 1	157+29.99	4.50	796.13	796.15
R	157+39.99	4.50	796.10	796.12
S	157+49.99	4.50	796.06	796.08
T	157+59.99	4.50	796.01	796.05
U	157+69.99	4.50	795.96	796.02
V	157+79.99	4.50	795.89	795.98
W	157+89.99	4.50	795.81	795.93
X	157+99.99	4.50	795.72	795.87
Y	158+09.99	4.50	795.62	795.79
Z	158+19.99	4.50	795.52	795.70
AA	158+29.99	4.50	795.40	795.58
BB	158+39.99	4.50	795.27	795.45
CC	158+49.99	4.50	795.14	795.29
DD	158+59.99	4.50	794.99	795.11
EE	158+69.99	4.50	794.83	794.91
℄ Brg. E. Abut.	158+82.65	4.50	794.62	794.64
Bk. E. Abut.	158+84.32	4.50	794.59	794.61

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	155+50.66	11.83	794.87	794.89
℄ Brg. W. Abut	155+52.33	11.83	794.89	794.91
A	155+62.33	11.83	795.04	795.15
B	155+72.33	11.83	795.17	795.37
C	155+82.33	11.83	795.30	795.57
D	155+92.33	11.83	795.41	795.75
E	156+02.33	11.83	795.52	795.91
F	156+12.33	11.83	795.62	796.04
G	156+22.33	11.83	795.70	796.14
H	156+32.33	11.83	795.78	796.21
I	156+42.33	11.83	795.85	796.27
J	156+52.33	11.83	795.90	796.29
K	156+62.33	11.83	795.95	796.29
L	156+72.33	11.83	795.99	796.28
M	156+82.33	11.83	796.02	796.25
N	156+92.33	11.83	796.04	796.21
O	157+02.33	11.83	796.04	796.16
P	157+12.33	11.83	796.04	796.11
Q	157+22.33	11.83	796.03	796.07
℄ Brg. Pier 1	157+29.99	11.83	796.01	796.04
R	157+39.99	11.83	795.99	796.00
S	157+49.99	11.83	795.95	795.97
T	157+59.99	11.83	795.90	795.93
U	157+69.99	11.83	795.84	795.90
V	157+79.99	11.83	795.77	795.86
W	157+89.99	11.83	795.70	795.81
X	157+99.99	11.83	795.61	795.76
Y	158+09.99	11.83	795.51	795.68
Z	158+19.99	11.83	795.40	795.59
AA	158+29.99	11.83	795.29	795.47
BB	158+39.99	11.83	795.16	795.33
CC	158+49.99	11.83	795.02	795.17
DD	158+59.99	11.83	794.88	794.99
EE	158+69.99	11.83	794.72	794.79
℄ Brg. E. Abut.	158+82.65	11.83	794.51	794.53
Bk. E. Abut.	158+84.32	11.83	794.48	794.50

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
Bk. W. Abut.	155+50.66	19.17	794.71	794.73
℄ Brg. W. Abut	155+52.33	19.17	794.74	794.76
A	155+62.33	19.17	794.88	795.00
B	155+72.33	19.17	795.02	795.22
C	155+82.33	19.17	795.15	795.42
D	155+92.33	19.17	795.26	795.60
E	156+02.33	19.17	795.37	795.76
F	156+12.33	19.17	795.46	795.89
G	156+22.33	19.17	795.55	795.99
H	156+32.33	19.17	795.63	796.06
I	156+42.33	19.17	795.70	796.12
J	156+52.33	19.17	795.75	796.14
K	156+62.33	19.17	795.80	796.14
L	156+72.33	19.17	795.84	796.12
M	156+82.33	19.17	795.87	796.09
N	156+92.33	19.17	795.88	796.05
O	157+02.33	19.17	795.89	796.01
P	157+12.33	19.17	795.89	795.96
Q	157+22.33	19.17	795.88	795.92
℄ Brg. Pier 1	157+29.99	19.17	795.86	795.88
R	157+39.99	19.17	795.83	795.85
S	157+49.99	19.17	795.80	795.82
T	157+59.99	19.17	795.75	795.78
U	157+69.99	19.17	795.69	795.75
V	157+79.99	19.17	795.62	795.71
W	157+89.99	19.17	795.54	795.66
X	157+99.99	19.17	795.46	795.60
Y	158+09.99	19.17	795.36	795.53
Z	158+19.99	19.17	795.25	795.43
AA	158+29.99	19.17	795.13	795.32
BB	158+39.99	19.17	795.01	795.18
CC	158+49.99	19.17	794.87	795.02
DD	158+59.99	19.17	794.72	794.84
EE	158+69.99	19.17	794.57	794.64
℄ Brg. E. Abut.	158+82.65	19.17	794.36	794.38
Bk. E. Abut.	158+84.32	19.17	794.33	794.35

NORTH EDGE OF SIDEWALK

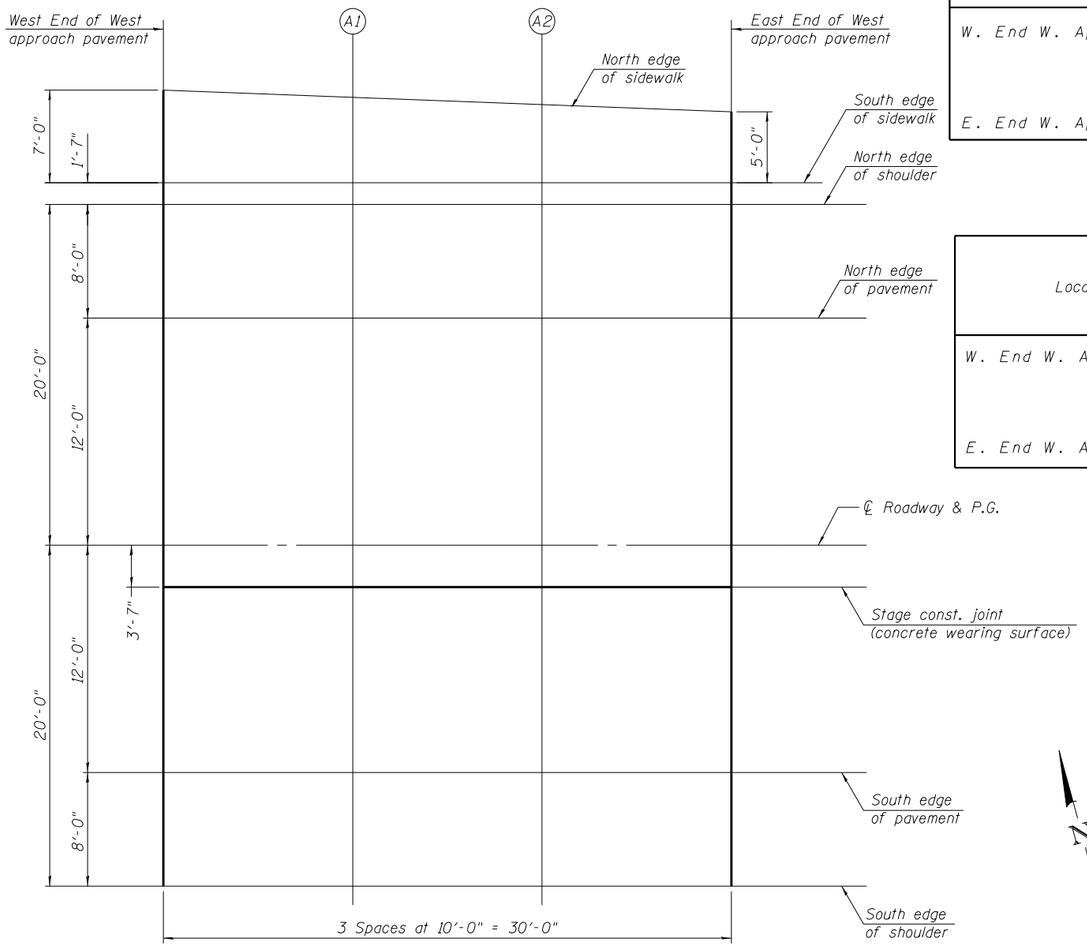
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End W. Appr. Pav't.	155+21.66	-28.58	794.03	794.05
A1	155+31.66	-27.89	794.22	794.24
A2	155+41.66	-27.20	794.41	794.43
E. End W. Appr. Pav't.	155+51.66	-26.58	794.57	794.59

SOUTH EDGE OF SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End W. Appr. Pav't.	155+21.66	-21.58	794.18	794.20
A1	155+31.66	-21.58	794.36	794.38
A2	155+41.66	-21.58	794.52	794.54
E. End W. Appr. Pav't.	155+51.66	-21.58	794.68	794.70

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End W. Appr. Pav't.	155+21.66	-20.00	794.21	794.23
A1	155+31.66	-20.00	794.39	794.41
A2	155+41.66	-20.00	794.56	794.58
E. End W. Appr. Pav't.	155+51.66	-20.00	794.71	794.73



PLAN

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End W. Appr. Pav't.	155+21.66	-12.00	794.38	794.40
A1	155+31.66	-12.00	794.56	794.58
A2	155+41.66	-12.00	794.72	794.74
E. End W. Appr. Pav't.	155+51.66	-12.00	794.88	794.90

℄ ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End W. Appr. Pav't.	155+21.66	0.00	794.57	794.59
A1	155+31.66	0.00	794.74	794.76
A2	155+41.66	0.00	794.91	794.93
E. End W. Appr. Pav't.	155+51.66	0.00	795.07	795.09

STAGE CONST. JOINT (CONCRETE WEARING SURFACE)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End W. Appr. Pav't.	155+21.66	3.58	794.55	794.57
A1	155+31.66	3.58	794.72	794.74
A2	155+41.66	3.58	794.87	794.89
E. End W. Appr. Pav't.	155+51.66	3.58	795.01	795.03

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End W. Appr. Pav't.	155+21.66	12.00	794.52	794.54
A1	155+31.66	12.00	794.65	794.67
A2	155+41.66	12.00	794.76	794.78
E. End W. Appr. Pav't.	155+51.66	12.00	794.88	794.90

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End W. Appr. Pav't.	155+21.66	20.00	794.36	794.38
A1	155+31.66	20.00	794.48	794.50
A2	155+41.66	20.00	794.60	794.62
E. End W. Appr. Pav't.	155+51.66	20.00	794.71	794.73

NORTH EDGE OF SIDEWALK

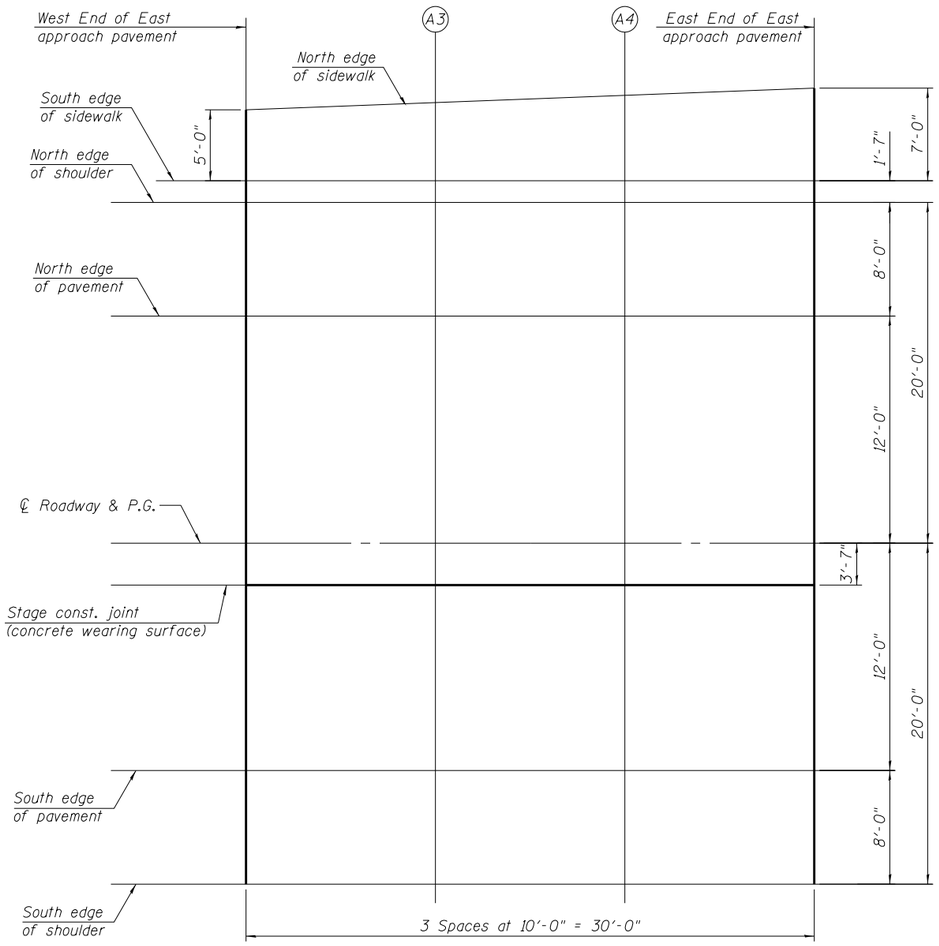
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End E. Appr. Pav't.	158+83.32	-26.58	794.19	794.21
A3	158+93.32	-27.20	794.00	794.02
A4	159+03.32	-27.89	793.79	793.81
E. End E. Appr. Pav't.	159+13.32	-28.58	793.58	793.60

SOUTH EDGE OF SIDEWALK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End E. Appr. Pav't.	158+83.32	-21.58	794.29	794.31
A3	158+93.32	-21.58	794.11	794.13
A4	159+03.32	-21.58	793.93	793.95
E. End E. Appr. Pav't.	159+13.32	-21.58	793.73	793.75

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End E. Appr. Pav't.	158+83.32	-20.00	794.33	794.35
A3	158+93.32	-20.00	794.15	794.17
A4	159+03.32	-20.00	793.96	793.98
E. End E. Appr. Pav't.	159+13.32	-20.00	793.76	793.78



PLAN

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End E. Appr. Pav't.	158+83.32	-12.00	794.49	794.51
A3	158+93.32	-12.00	794.31	794.33
A4	159+03.32	-12.00	794.13	794.15
E. End E. Appr. Pav't.	159+13.32	-12.00	793.93	793.95

℄ ROADWAY & PG

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End E. Appr. Pav't.	158+83.32	0.00	794.68	794.70
A3	158+93.32	0.00	794.50	794.52
A4	159+03.32	0.00	794.31	794.33
E. End E. Appr. Pav't.	159+13.32	0.00	794.11	794.13

STAGE CONST. JOINT (CONCRETE WEARING SURFACE)

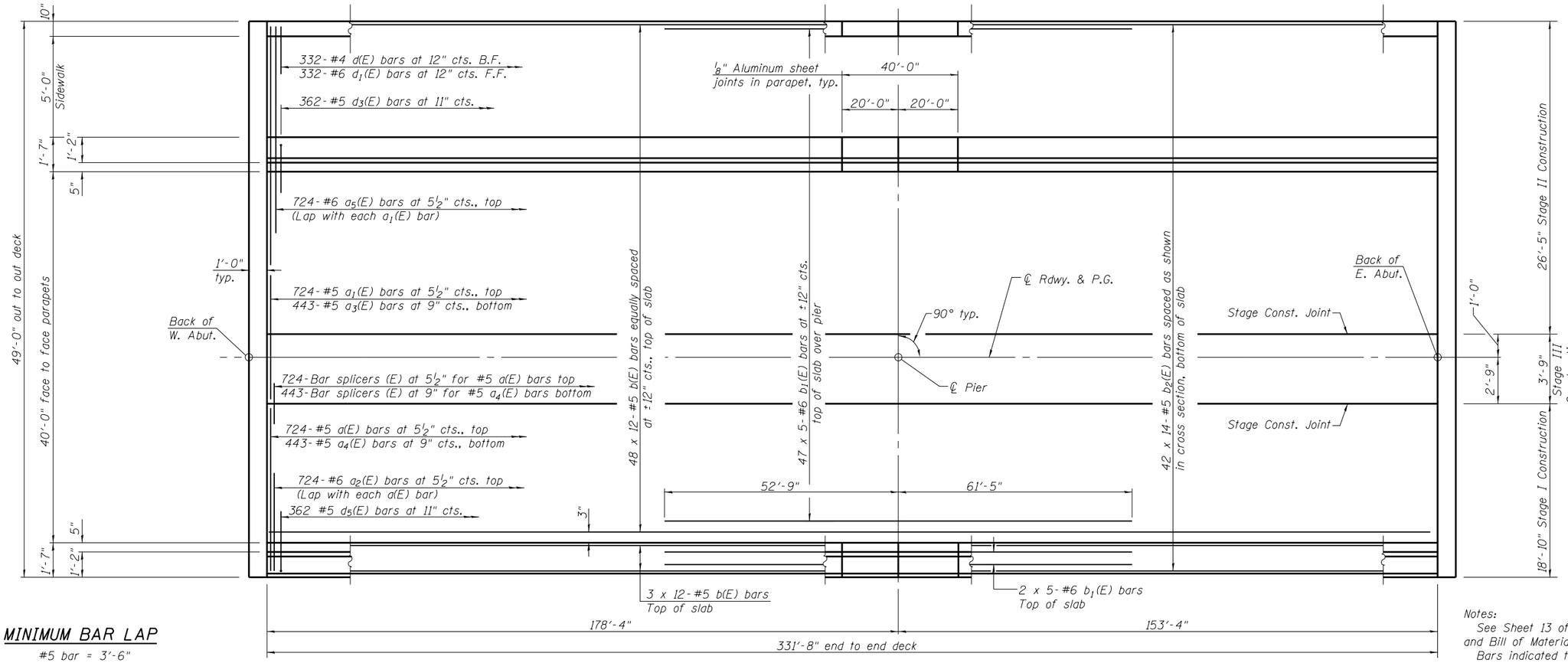
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End E. Appr. Pav't.	158+83.32	3.58	794.62	794.64
A3	158+93.32	3.58	794.45	794.47
A4	159+03.32	3.58	794.26	794.28
E. End E. Appr. Pav't.	159+13.32	3.58	794.06	794.08

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End E. Appr. Pav't.	158+83.32	12.00	794.49	794.51
A3	158+93.32	12.00	794.31	794.33
A4	159+03.32	12.00	794.13	794.15
E. End E. Appr. Pav't.	159+13.32	12.00	793.93	793.95

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
W. End E. Appr. Pav't.	158+83.32	20.00	794.33	794.35
A3	158+93.32	20.00	794.15	794.17
A4	159+03.32	20.00	793.96	793.98
E. End E. Appr. Pav't.	159+13.32	20.00	793.76	793.78

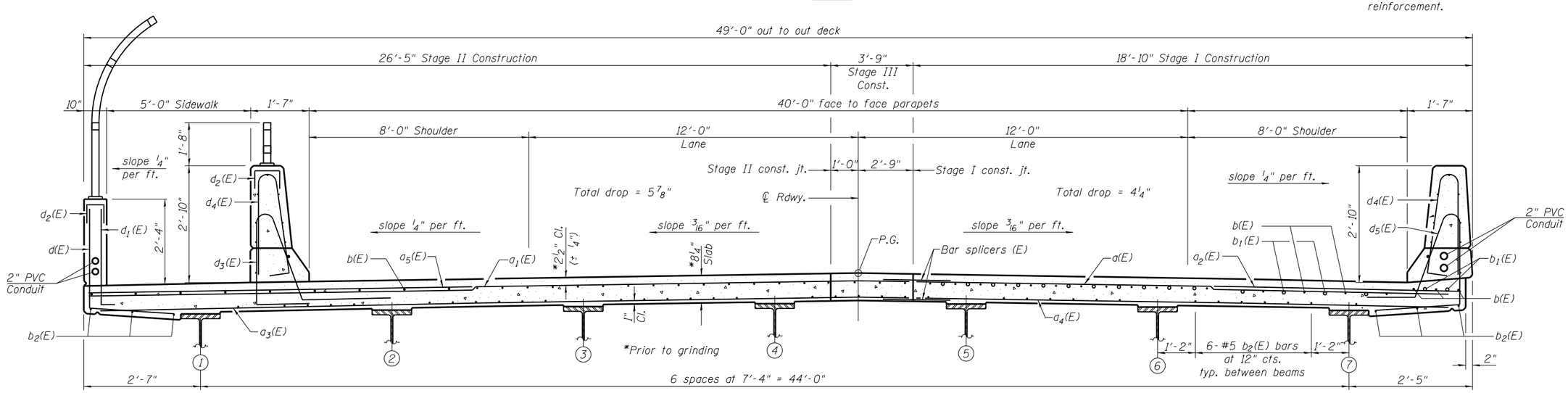


MINIMUM BAR LAP

#5 bar = 3'-6"
#6 bar = 4'-10"

PLAN

Notes:
See Sheet 13 of 36 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet 13 and 14 of 36 for parapet reinforcement.

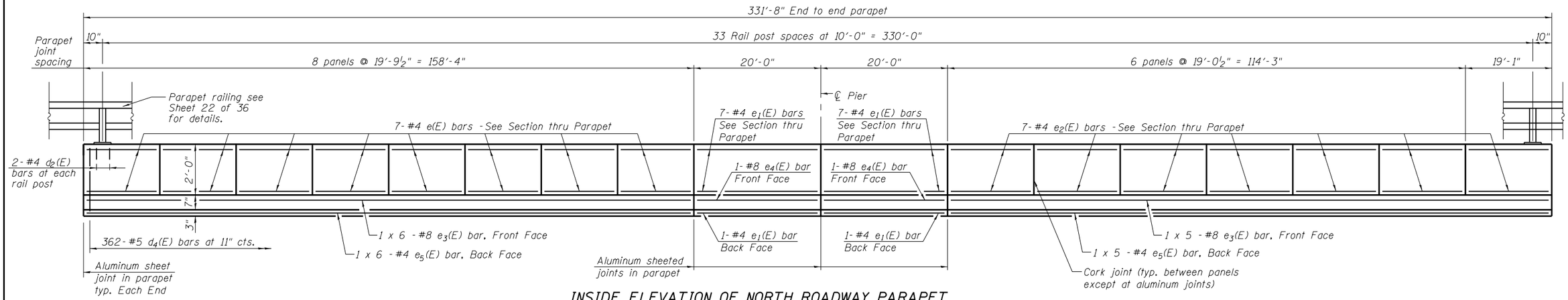


NEAR MIDSPAN — NEAR PIER

CROSS SECTION

(Looking East)

FILE NAME = 0101050-70897-012-Superstructure.dgn	USER NAME =	DESIGNED - AAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO. 010-1050	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.9160		CHECKED - BWP	REVISED -			719	(10-34HB)BR-1	CHAMPAIGN	147	82
	PLOT SCALE =	DRAWN - BJV	REVISED -						CONTRACT NO. 70B98	
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -		SHEET NO. 12 OF 36 SHEETS			ILLINOIS	FED. AID PROJECT	

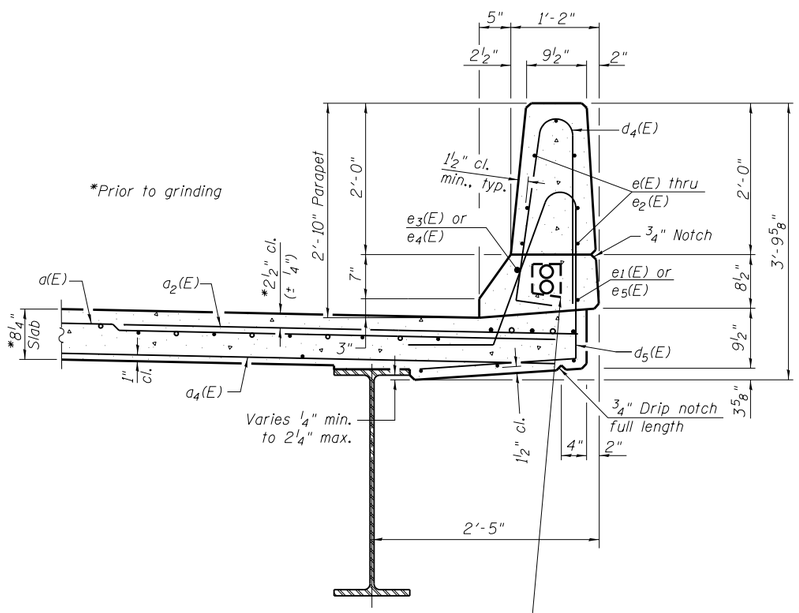


INSIDE ELEVATION OF NORTH ROADWAY PARAPET

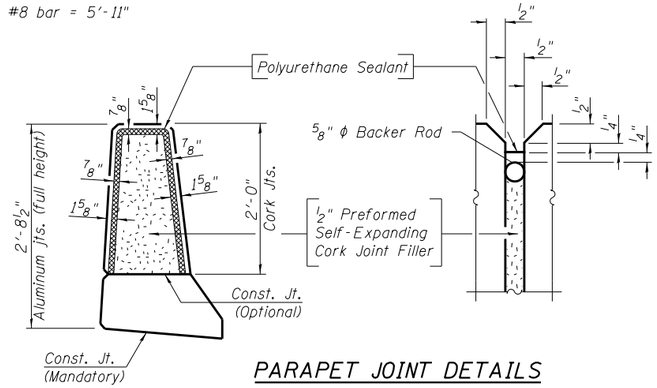
(South Parapet Similar)

MINIMUM BAR LAP

(Parapet)
#4 bar = 2'-8"
#8 bar = 5'-11"

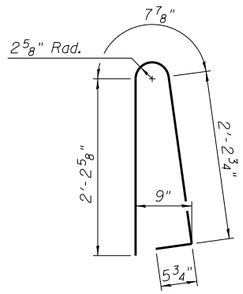


SECTION THRU EAST PARAPET

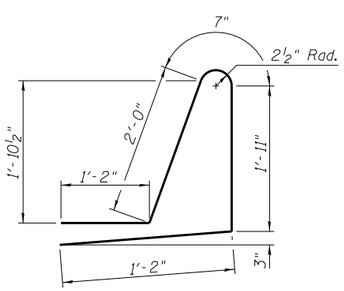


PARAPET JOINT DETAILS

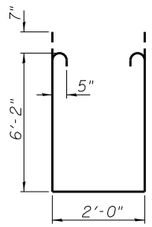
Notes:
The ⅛" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a ⅝" backer rod.
The ½" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.



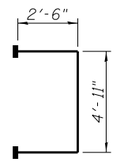
BAR d4(E)



BAR d5(E)



BAR s1(E)



BAR s(E)

(Headed)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	724	#5	18'-4"	——
a1(E)	724	#5	29'-10"	——
a2(E)	724	#6	6'-6"	——
a3(E)	443	#5	29'-6"	——
a4(E)	443	#5	18'-0"	——
a5(E)	724	#6	12'-6"	——
b(E)	612	#5	30'-10"	——
b1(E)	245	#6	26'-9"	——
b2(E)	588	#5	26'-11"	——
d(E)	332	#4	4'-2"	L
d1(E)	332	#6	3'-8"	L
d2(E)	136	#4	2'-0"	⊓
d3(E)	362	#5	7'-8"	⅃
d4(E)	724	#5	5'-7"	⅂
d5(E)	362	#5	6'-10"	⅄
e(E)	160	#4	19'-5"	——
e1(E)	44	#4	19'-8"	——
e2(E)	140	#4	18'-8"	——
e3(E)	22	#8	31'-4"	——
e4(E)	4	#8	19'-8"	——
e5(E)	22	#4	28'-9"	——
m(E)	12	#6	29'-10"	——
m1(E)	12	#6	18'-6"	——
m2(E)	60	#6	7'-0"	——
m3(E)	20	#6	2'-1"	——
m4(E)	84	#5	4'-0"	——
s(E)	88	#5	9'-11"	⊔
s1(E)	88	#5	15'-6"	⊔
Reinforcement Bars, Epoxy Coated		Pound	148,760	
Concrete Superstructure		Cu. Yds.	608.9	

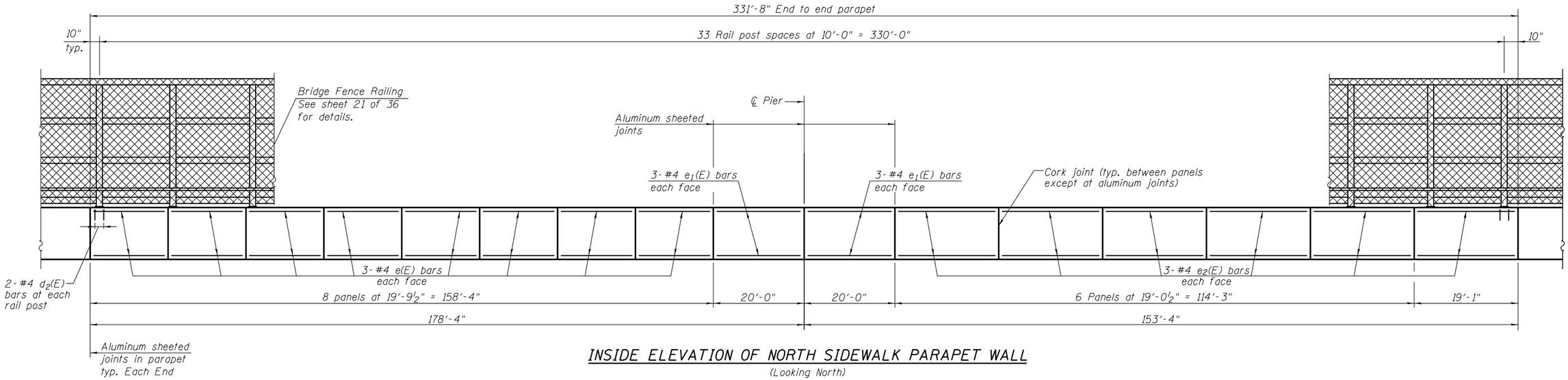
Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

FILE NAME = 0101050-70897-013-Super Details.dgn	USER NAME =	DESIGNED - AAH	REVISED -
BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.9190		CHECKED - BWP	REVISED -
	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 010-1050
SHEET NO. 13 OF 36 SHEETS

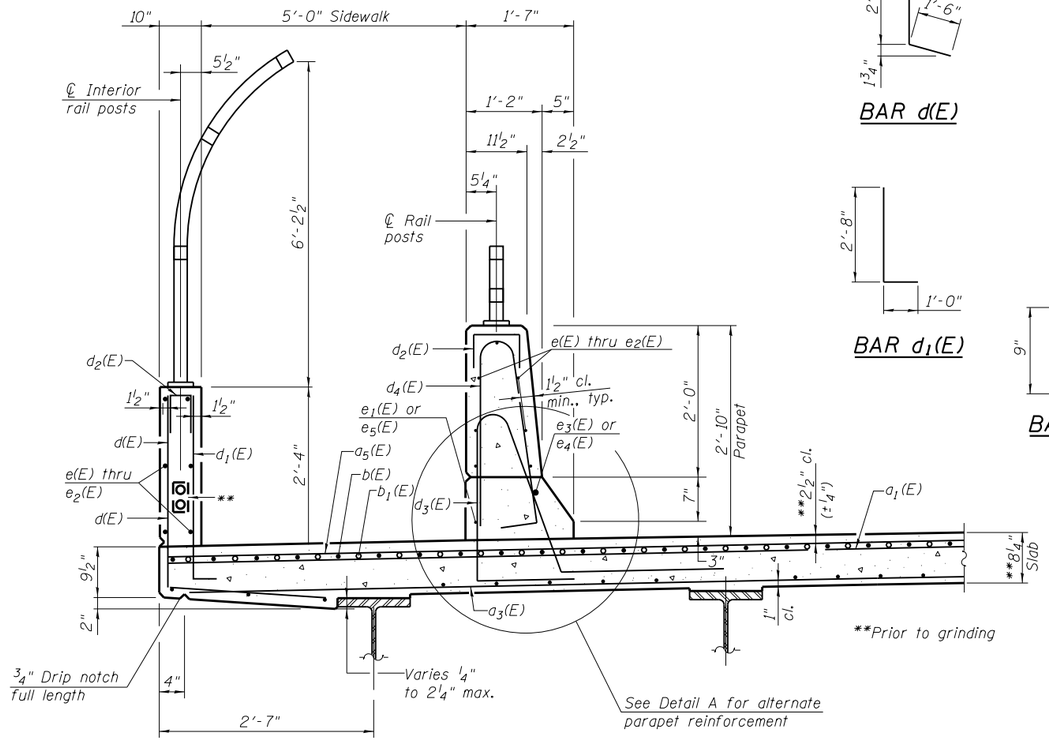
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	83
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		



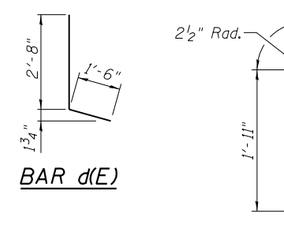
INSIDE ELEVATION OF NORTH SIDEWALK PARAPET WALL

(Looking North)

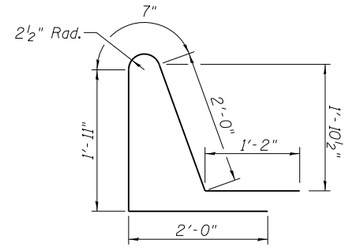
** 2-2" PVC conduit, Sch. 40 min.
Maintain 1½" cl. from reinforcement



SECTION THRU SIDEWALK

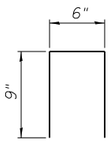


BAR d(E)

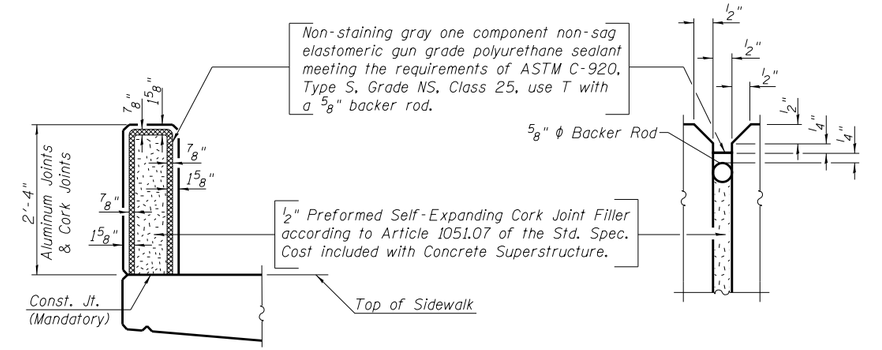


BAR d3(E)

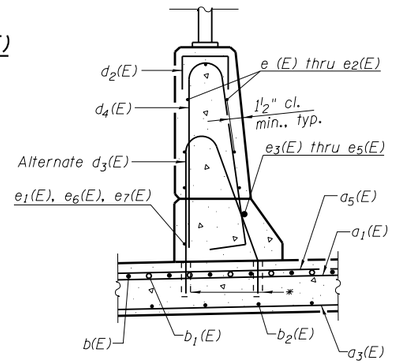
BAR d1(E)



BAR d2(E)

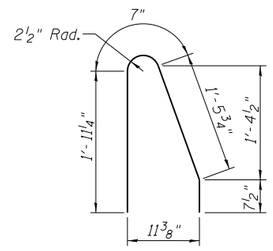


NORTH SIDEWALK PARAPET JOINT DETAILS



DETAIL A

Note:
The ⅛" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.



ALTERNATE BAR d3(E)

* Drill and set Alternate #5 $d_3(E)$ bar according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6".

The Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.

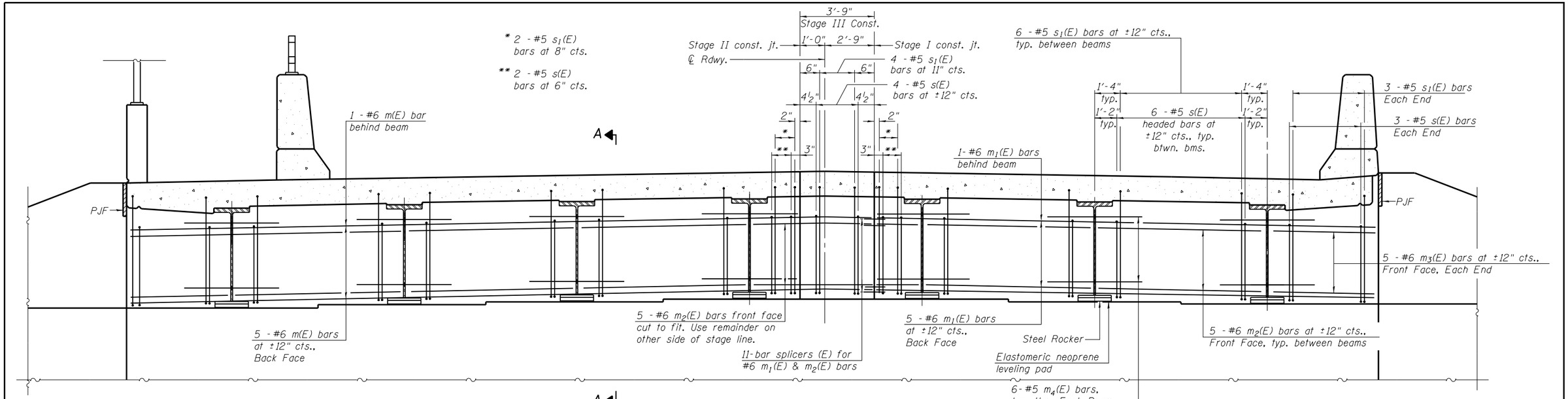
If alternate parapet reinforcement is chosen, cost of alternate $d_3(E)$ bars, drilling, and setting is included with the cost of Reinforcement Bars, Epoxy Coated.

FILE NAME = 0101050-70897-014-Super Details.dgn	USER NAME =	DESIGNED - AAH	REVISED -
BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.3190		CHECKED - BWP	REVISED -
	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

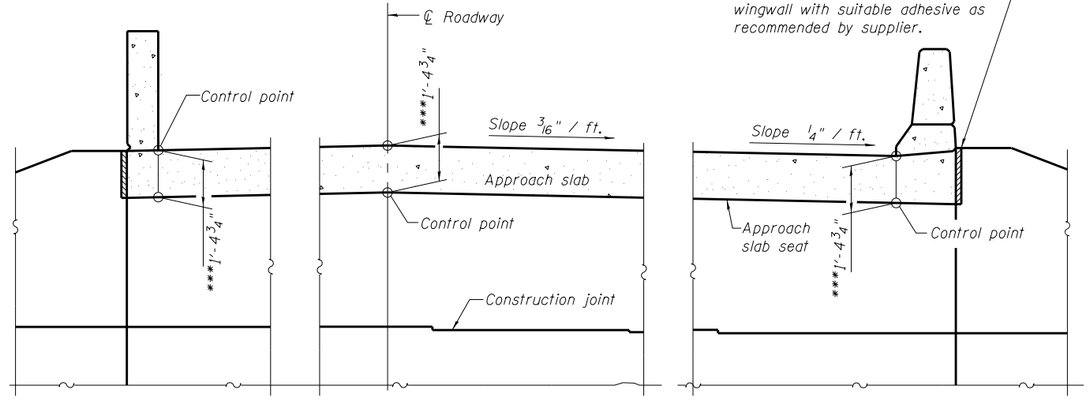
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 010-1050
SHEET NO. 14 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	84
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		



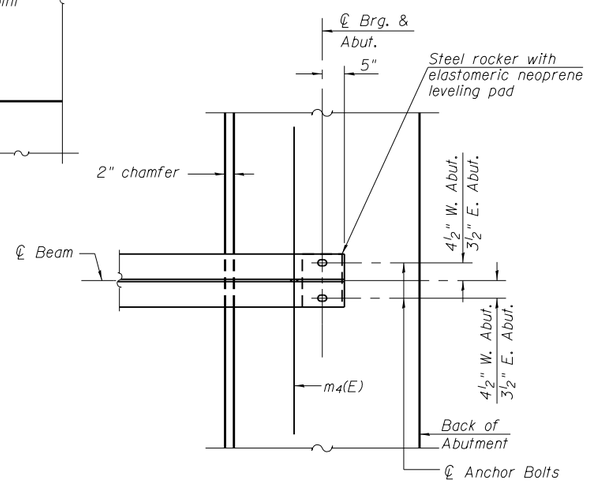
DIAPHRAGM ELEVATION AT ABUTMENT

(Looking East)



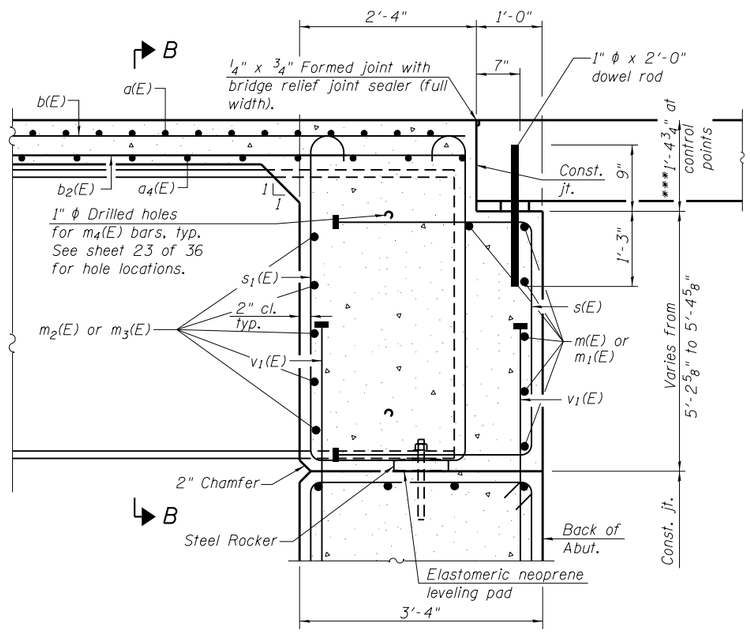
***Prior to grinding

SECTION B-B



PLAN AT ABUTMENT

(Showing bottom flange of beam)



SECTION A-A

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 13 of 36.

Concrete in diaphragm is included with Concrete Superstructure on sheet 13 of 36.

For details of bars s(E) and s_1(E) see sheet 13 of 36.

The approach slab seat shall have a constant slope determined from the control points shown.

For bearing details see sheet 25 of 36.

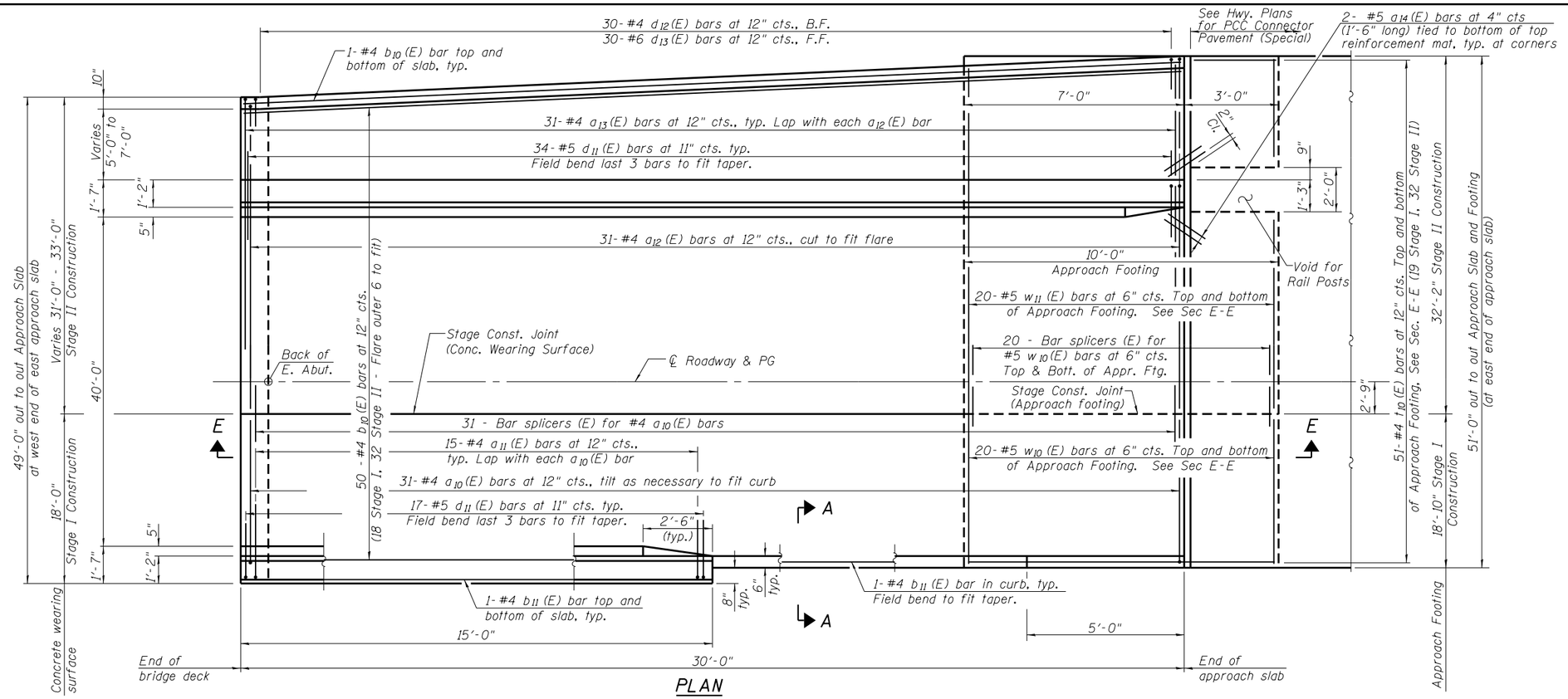
Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

FILE NAME = 0101050-70897-015-Diaphragm Details.dgn	USER NAME =	DESIGNED - AAH	REVISED -
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MAHOMET, ILLINOIS 61853 PHONE - 618.897.9160		CHECKED - BWP	REVISED -
	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

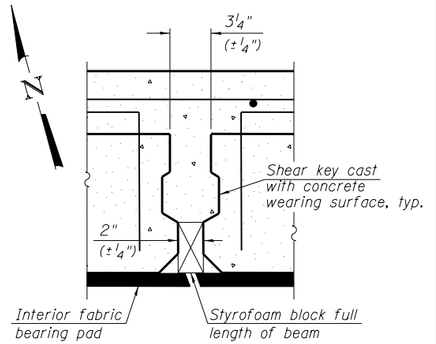
DIAPHRAGM DETAILS
STRUCTURE NO. 010-1050
SHEET NO. 15 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	85
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		

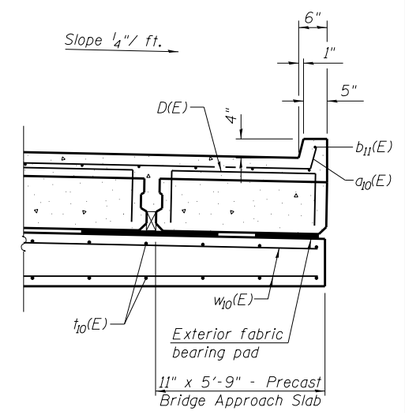


PLAN

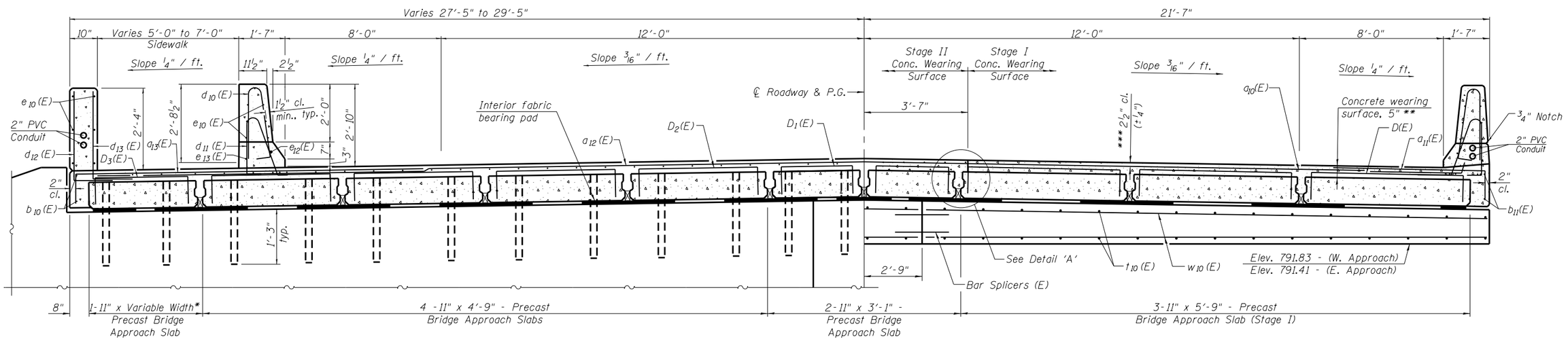
(Showing wearing surface, East approach shown. West approach similar by mirror image.)



DETAIL 'A'



SECTION A-A



NEAR ABUTMENT

CROSS SECTION

(Looking East)

AT APPROACH FOOTING

* Varies from 3'-9" to 5'-9"

*** Prior to grinding

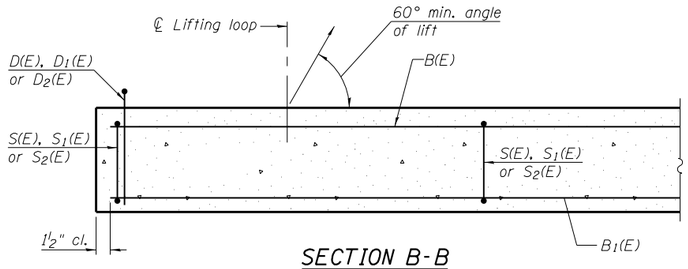
** Varies from 5 1/4" to 7" at south side of west approach due to SE transition. (prior to grounding)

FILE NAME = 0101050-70897-016-Prec Br Appr Slab.dgn	USER NAME =	DESIGNED - AAH	REVISED -
BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.9190		CHECKED - BWP	REVISED -
	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -

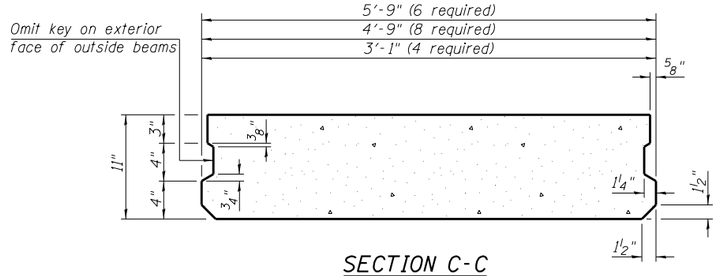
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST BRIDGE APPROACH SLAB
STRUCTURE NO. 010-1050
SHEET NO. 16 OF 36 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
(10-34HB)BR-1	CHAMPAIGN	147	86
	CONTRACT NO. 70B98		
ILLINOIS FED. AID PROJECT			

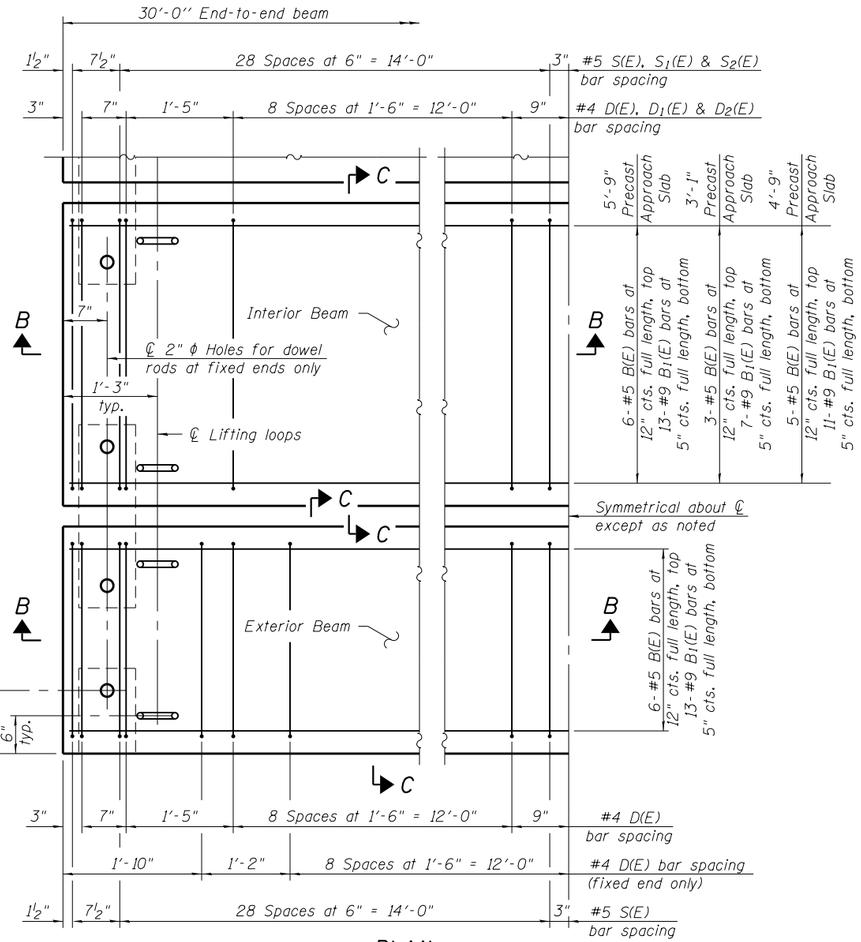


SECTION B-B

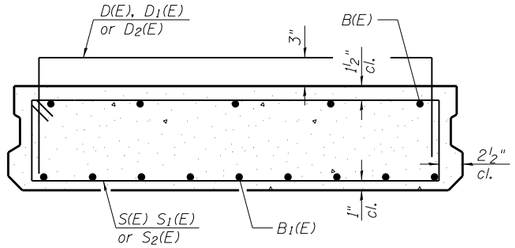


SECTION C-C
(Showing dimensions)

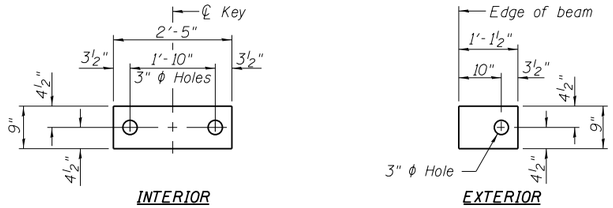
Notes:
The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.
Cast-in-place substitution of Precast Bridge Approach Slab is not allowed.
The top surface of precast bridge approach slabs shall be finished similar to precast prestressed deck beams with concrete wearing surface as specified in the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."
Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.
A minimum 2 ½" ϕ lifting pins shall be used to engage the lifting loops during handling.
Compressive strength of precast concrete, f'c shall be 6,000 psi.
Compressive strength of precast concrete during initial lifting, f'ci shall be 5,000 psi.



PLAN



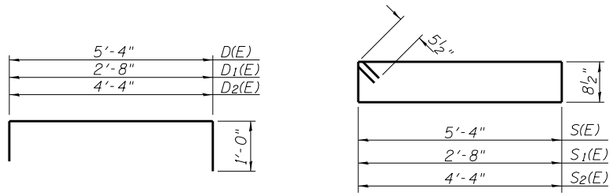
SECTION C-C
(Showing reinforcement)



INTERIOR EXTERIOR

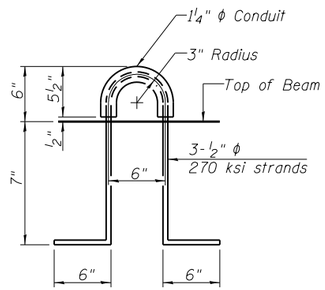
FABRIC BEARING PAD

Notes:
All bearing pads shall be ½" thick.
Omit holes for fabric bearing pads at approach slab footing end of beams.
Expansion bearing pad shall be bonded to the approach slab footing.



BARS D(E) D1(E) & D2(E)

BARS S(E) S1(E) & S2(E)



LIFTING LOOP DETAIL
(An alternate lifting loop with a proof load of 25,000 lbs. and utilized according to the manufacturer's recommendations may be used)

BAR LIST EACH
11" x 3'-1" INTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	3	#5	29'-8"	—
B1(E)	7	#9	29'-8"	—
D1(E)	22	#4	4'-8"	⊓
S1(E)	60	#5	7'-8"	▭

BAR LIST EACH
11" x 4'-9" INTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	5	#5	29'-8"	—
B1(E)	11	#9	29'-8"	—
D2(E)	22	#4	6'-4"	⊓
S2(E)	60	#5	11'-0"	▭

BAR LIST
EACH 11" x 5'-9" INTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	13	#9	29'-8"	—
D(E)	22	#4	7'-4"	⊓
S(E)	60	#5	13'-0"	▭

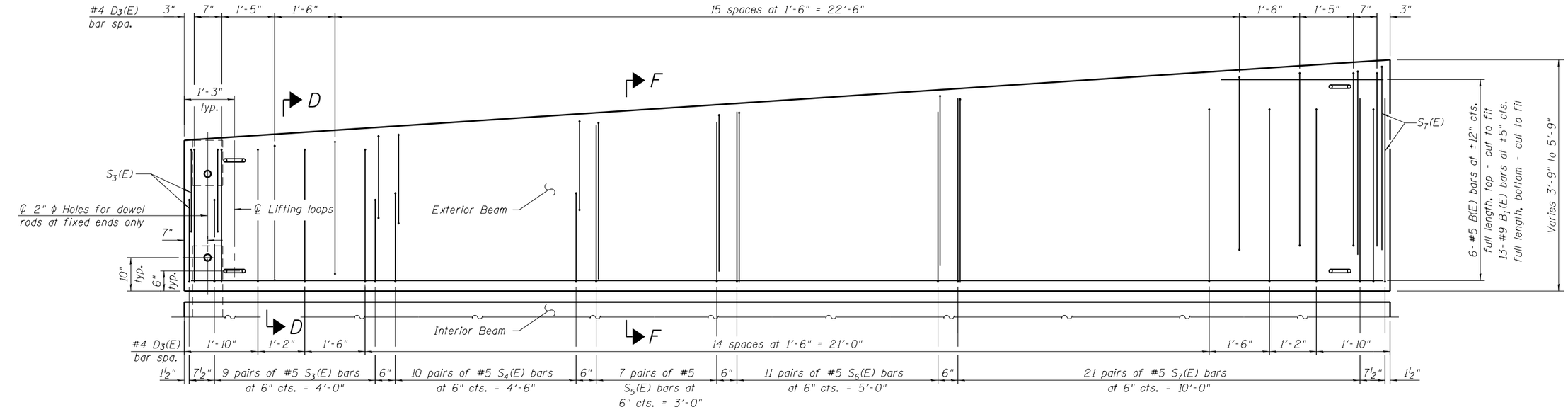
BAR LIST
11'' x 5'-9" SOUTH EXTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	13	#9	29'-8"	—
D(E)	32	#4	7'-4"	⊓
S(E)	60	#5	13'-0"	▭

BA-P-34FS-0 07-22-16 (Beams: 36" min. width; 72" max. width)

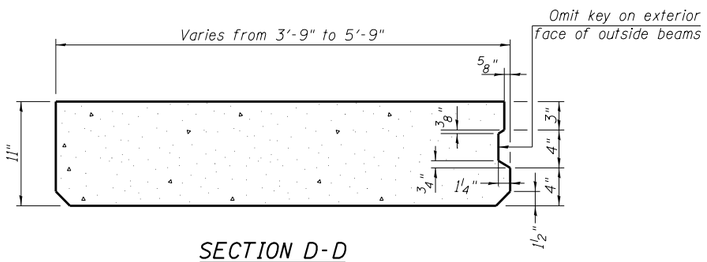
FILE NAME = 0101050-70897-017-Prec Br Appr Slab.dgn | USER NAME = | DESIGNED - AAH | REVISED -
PLOT SCALE = | DRAWN - BJV | REVISED -
PLOT DATE = 4/16/2019 | CHECKED - BWP | REVISED -
BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.9180
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
PRECAST BRIDGE APPROACH SLAB STRUCTURE NO. 010-1050
SHEET NO. 17 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	87
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		



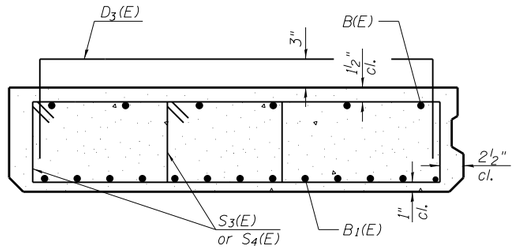
PLAN

(Showing the North variable width exterior beam at the East approach slab. West approach slab similar.)



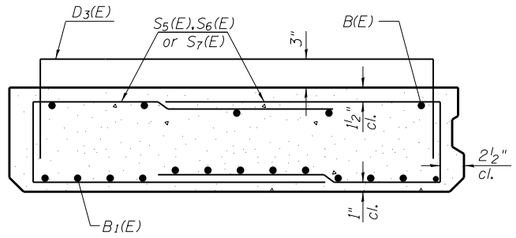
SECTION D-D

(Showing dimensions)



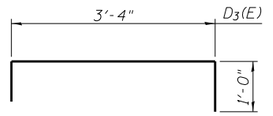
SECTION D-D

(Showing reinforcement)

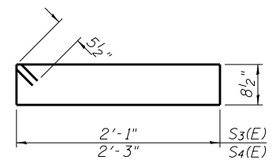


SECTION F-F

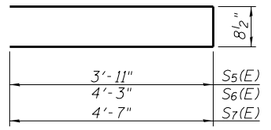
(Showing reinforcement)



BARS D3(E)



BARS S3(E) & S4(E)



BARS S5(E), S6(E) & S7(E)

BAR LIST EACH NORTH EXTERIOR BEAM

(For information only)

Bar	No.	Size	Length	Shape
B(E)	6	#5	29'-8"	—
B1(E)	13	#9	29'-8"	—
D3(E)	41	#4	5'-4"	⊓
S3(E)	20	#5	6'-6"	⊓
S4(E)	20	#5	6'-10"	⊓
S5(E)	14	#5	8'-7"	⊓
S6(E)	22	#5	9'-3"	⊓
S7(E)	44	#5	9'-11"	⊓

FILE NAME = 0101050-70897-018-Prec Br Appr Slab (Variable Width).dgn
USER NAME = bgr
PLOT SCALE =
PLOT DATE = 4/16/2019

DESIGNED - AAH
CHECKED - BWP
DRAWN - BJV
CHECKED - BWP

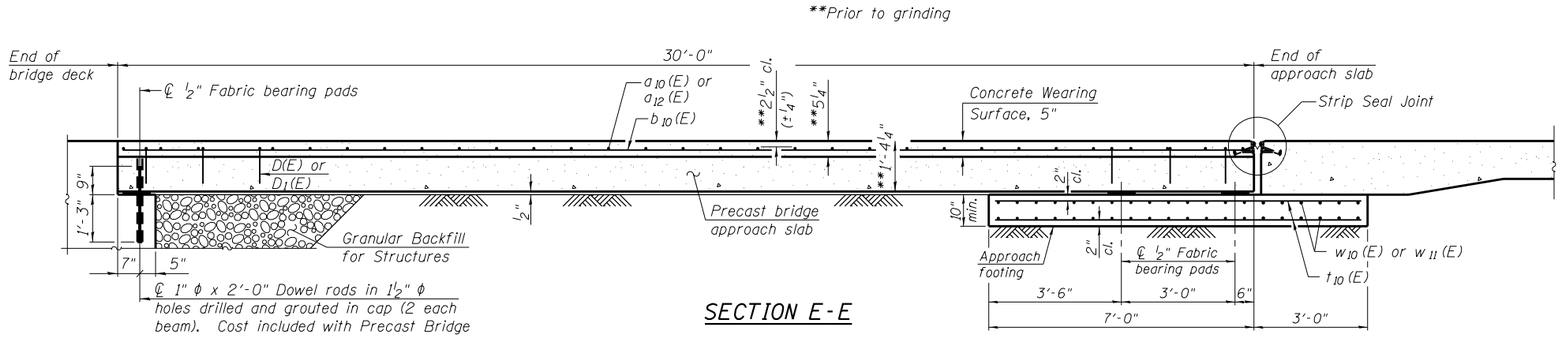
REVISED -
REVISED -
REVISED -
REVISED -

BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.
403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE: 618.997.3190

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST BRIDGE APPROACH SLAB
STRUCTURE NO. 010-1050
SHEET NO. 18 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	88
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



℄ 1" ϕ x 2'-0" Dowel rods in 1 1/2" ϕ holes drilled and grouted in cap (2 each beam). Cost included with Precast Bridge Approach Slab.

SECTION E-E

Notes:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach pavement.

After precast bridge approach slabs have been erected, holes shall be drilled into abutment and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of precast slab and cured according to Article 1020.13(a)(3) or 1020.13(a)(5) of the Standard Specifications for a minimum of 24 hours before casting the shear keys and wearing surface.

Any concrete poured monolithically with the wearing surface, such as curbs, shall not be paid for separately, but will be included in the cost of Concrete Wearing Surface, 5".

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The strip seal shall extend 6" beyond the edge of the approach slab on each end. 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 conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints.

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.

Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

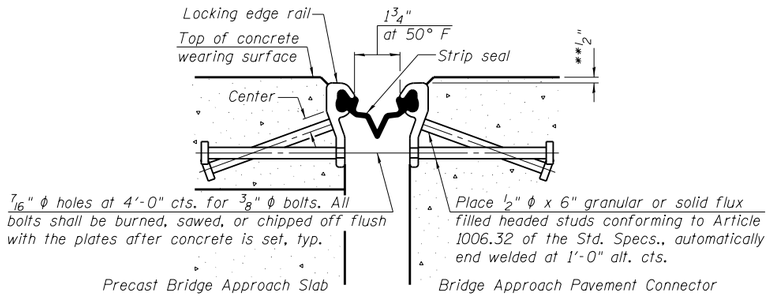
Parapet concrete shall be paid for as Concrete Superstructure.

Approach footing concrete shall be paid for as Concrete Structures.

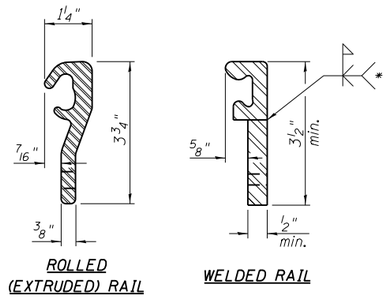
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 36.



SECTION THRU STRIP SEAL JOINT

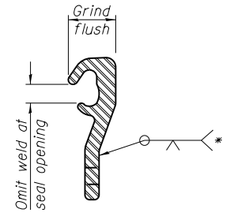


ROLLED (EXTRUDED) RAIL

WELDED RAIL

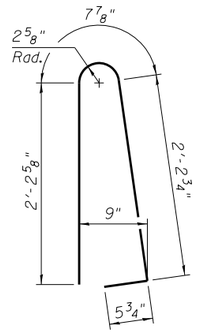
LOCKING EDGE RAIL

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

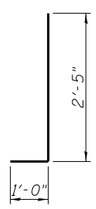


LOCKING EDGE RAIL SPLICE

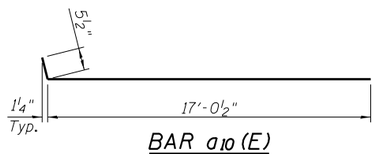
The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.



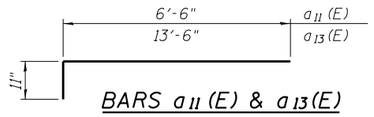
BAR d10(E)



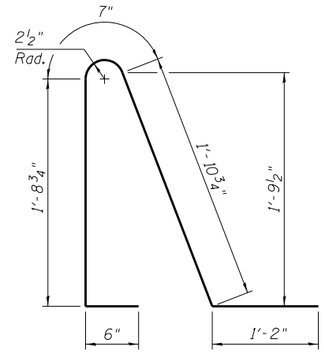
BAR d12(E) & d13(E)



BAR a10(E)



BARS a11(E) & a13(E)



BAR d11(E)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	62	#4	17'-6"	
a11(E)	30	#4	7'-5"	
a12(E)	62	#4	32'-0"	
a13(E)	62	#4	14'-5"	
a14(E)	8	#4	1'-6"	
b10(E)	104	#4	29'-8"	
b11(E)	6	#4	14'-8"	
d2(E)	24	#4	2'-0"	
d10(E)	102	#5	5'-7"	
d11(E)	102	#5	5'-11"	
d12(E)	62	#4	3'-5"	
d13(E)	62	#6	3'-5"	
e10(E)	68	#4	14'-8"	
e11(E)	2	#8	14'-8"	
e12(E)	2	#8	29'-8"	
e13(E)	2	#4	29'-8"	
t10(E)	204	#4	9'-8"	
w10(E)	80	#5	18'-6"	
w11(E)	80	#5	31'-10"	
Concrete Superstructure			Cu. Yd.	15.0
Concrete Structures			Cu. Yd.	39.4
Reinforcement Bars, Epoxy Coated			Pound	13,100
Precast Bridge Approach Slab			Sq. Ft.	2,830
Concrete Wearing Surface, 5"			Sq. Yd.	332
Preformed Joint Strip Seal			Foot	102

BA-P-34FS-0 07-22-16 (Beams: 36" min. width; 72" max. width)

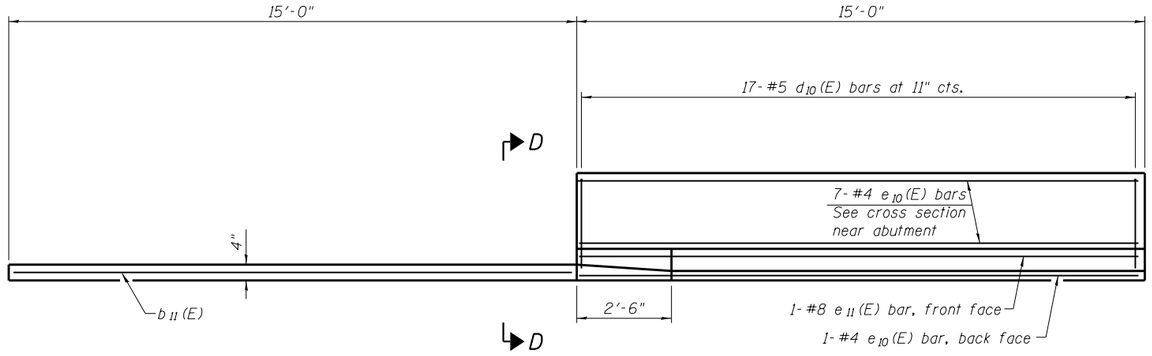
FILE NAME = 0101050-70897-019-Prec Br Appr Slab.dgn	USER NAME =	DESIGNED - AAH	REVISED -
BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.9190		CHECKED - BWP	REVISED -
	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST BRIDGE APPROACH SLAB
STRUCTURE NO. 010-1050
SHEET NO. 19 OF 36 SHEETS

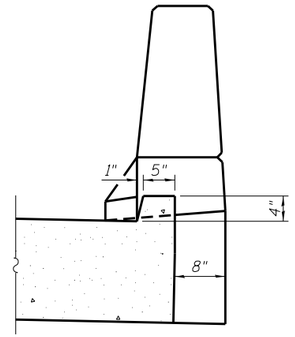
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	89
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		

Note: East Approach shown, West Approach similar.

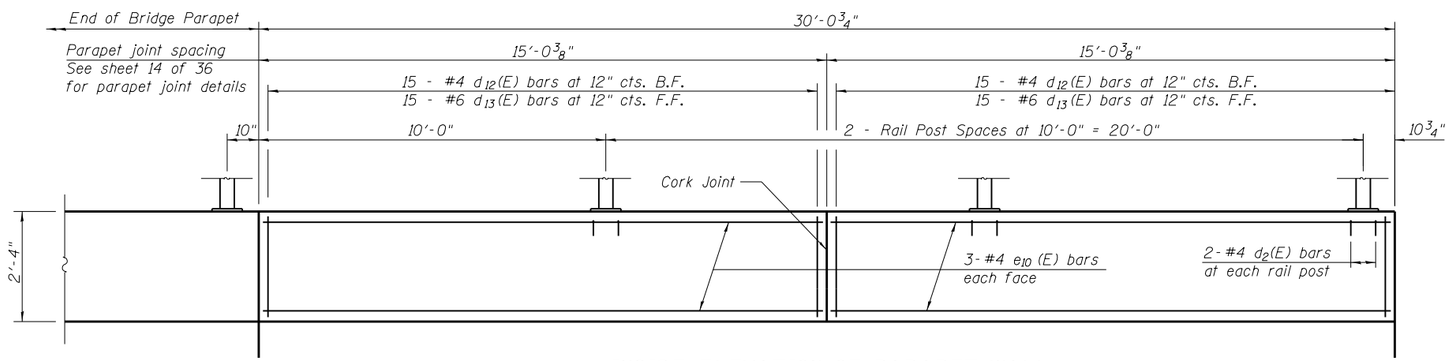


INSIDE ELEVATION OF PARAPET AND CURB

(South Roadway Parapet at East approach)

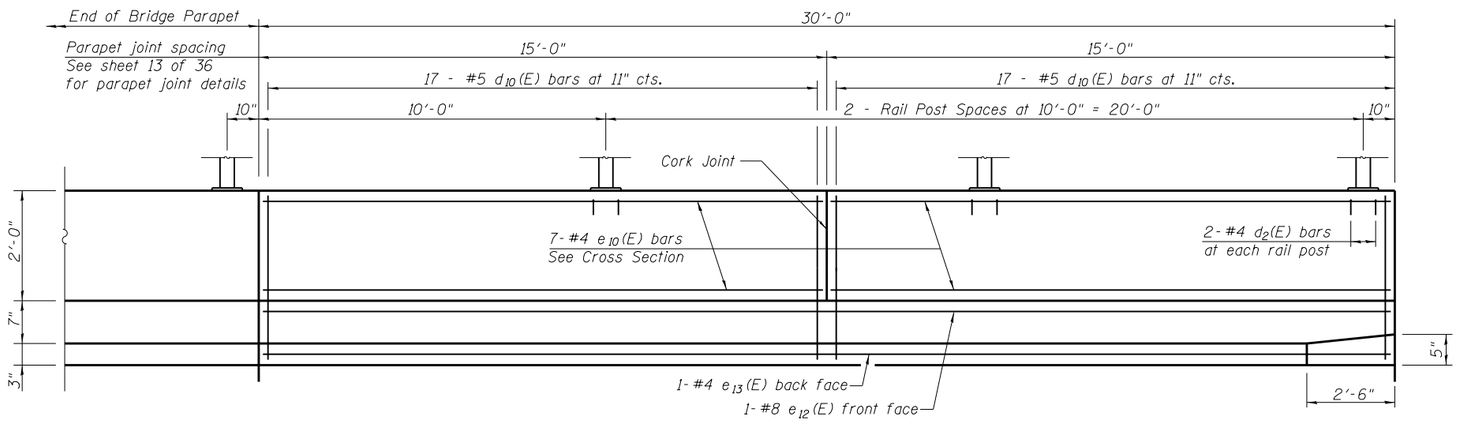


VIEW D-D



INSIDE ELEVATION OF PARAPET WALL

(North Sidewalk Parapet at East approach)

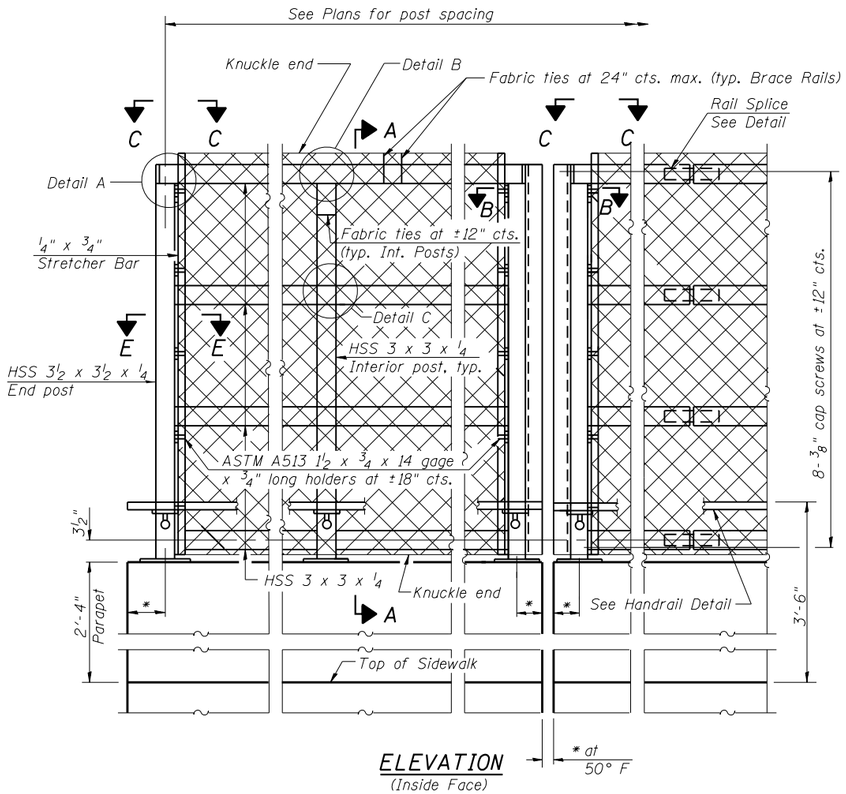


INSIDE ELEVATION OF PARAPET

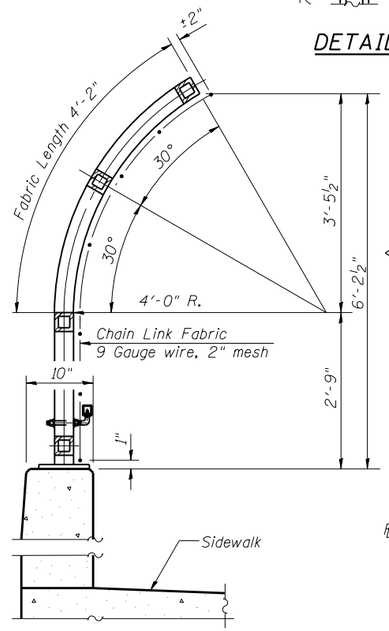
(North Roadway Parapet at East Approach)

FILE NAME = 0101050-70897-02D-Prec Br Appr Slab.dgn	USER NAME =	DESIGNED - AAH	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**PRECAST BRIDGE APPROACH SLAB STRUCTURE NO. 010-1050**
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.9190		CHECKED - BWP	REVISED -		SHEET NO. 20 OF 36 SHEETS
	PLOT SCALE =	DRAWN - BJV	REVISED -		
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -		

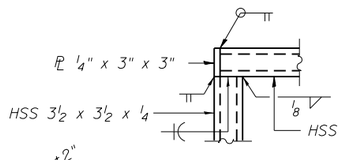
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	90
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



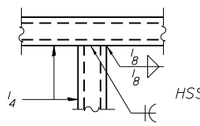
ELEVATION
(Inside Face)



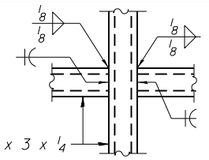
SECTION A-A



DETAIL A



DETAIL B

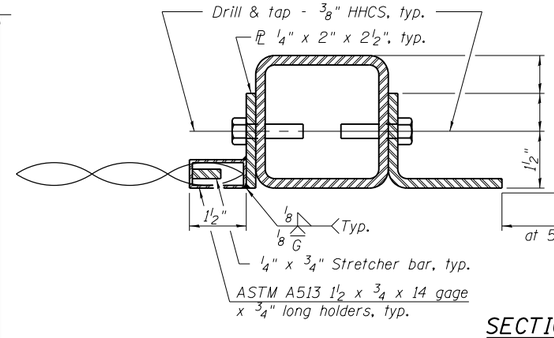


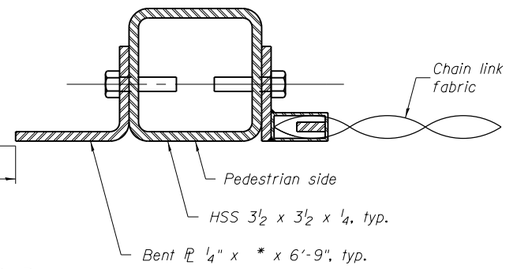
DETAIL C

Notes:

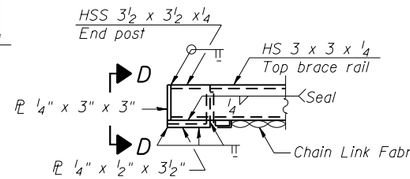
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. All of these elements, except the chain link fabric and ties, shall also be powder coated. At a minimum, the powder coating process shall consist of a zinc phosphate pretreatment/wash, a gray zinc rich primer coat, and a black top coat.

The galvanized chain link fabric and ties shall be vinyl coated black according to Section 509 and Article 1006.27(a)(1)d of the Standard Specifications.

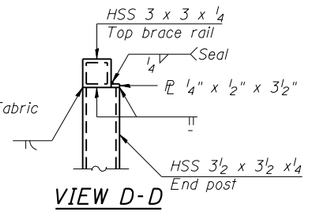




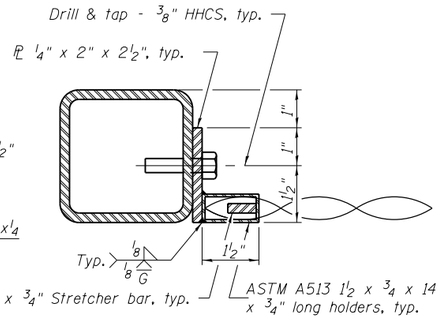
SECTION B-B
(At Expansion Joint)

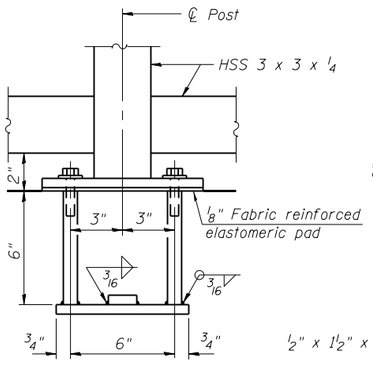


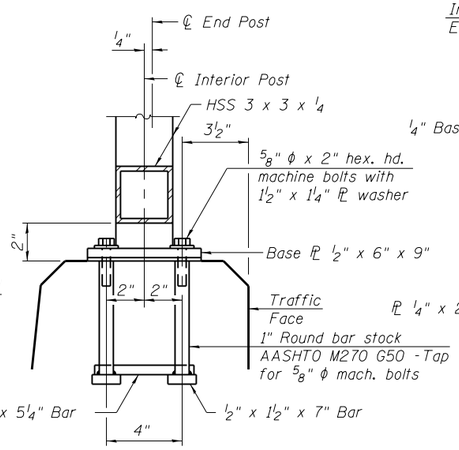
VIEW C-C



VIEW D-D

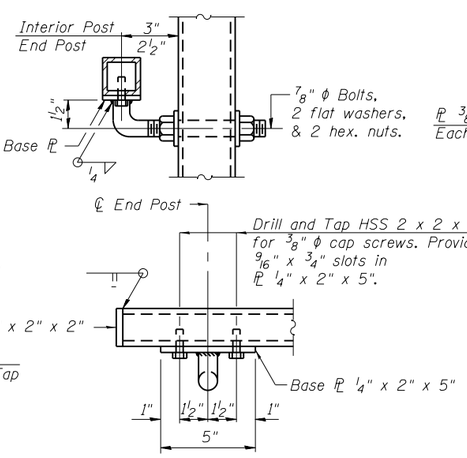




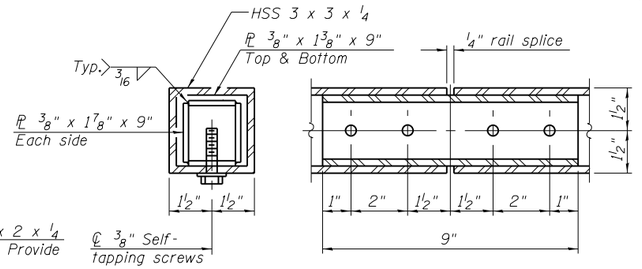


ANCHOR BOLT DETAILS

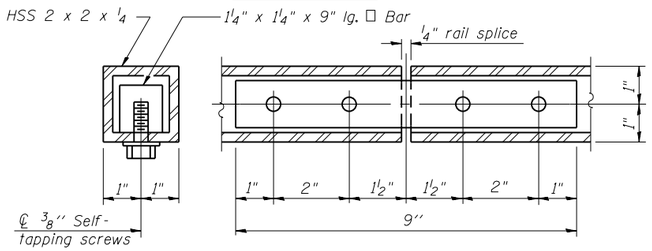
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8'' ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



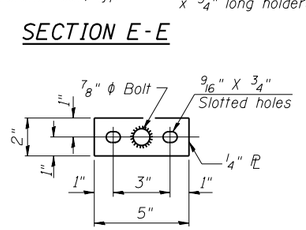
HANDRAIL DETAIL



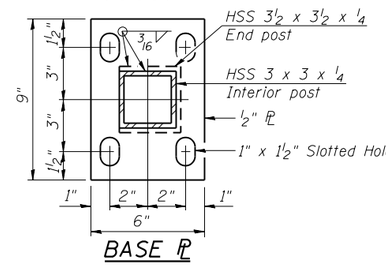
RAIL SPLICE



HANDRAIL SPLICE



BASE PL
(Handrail)



BASE PL

*Variable - See Plans
(10'-0'' Maximum Post Spacing)

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing	Foot	390

R-32 1-12-15

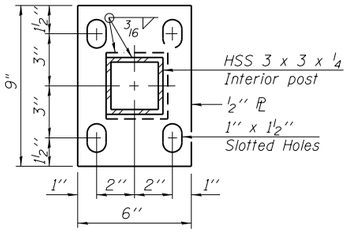
FILE NAME = 0101050-70897-02I-Bridge Fence Railing.dgn	USER NAME =	DESIGNED - AAH	REVISED -
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MAHON, ILLINOIS 61269 PHONE - 815.957.3780		CHECKED - BWP	REVISED -
	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

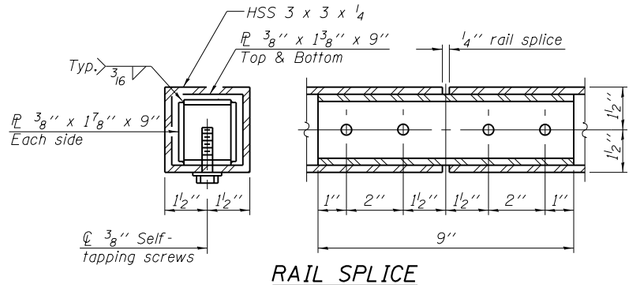
BRIDGE FENCE RAILING, PARAPET MOUNTED
STRUCTURE NO. 010-1050
SHEET NO. 21 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	91
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		

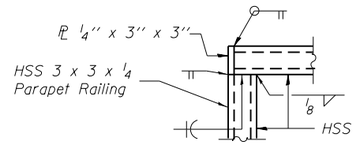
Notes:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications. All of these elements shall also be powder coated. At a minimum, the powder coating process shall consist of a zinc phosphate pretreatment/wash, a gray zinc rich primer coat, and a black top coat.



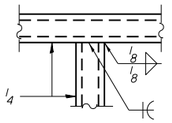
BASE PL



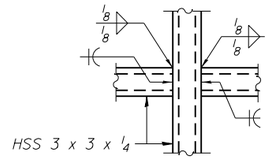
RAIL SPLICE



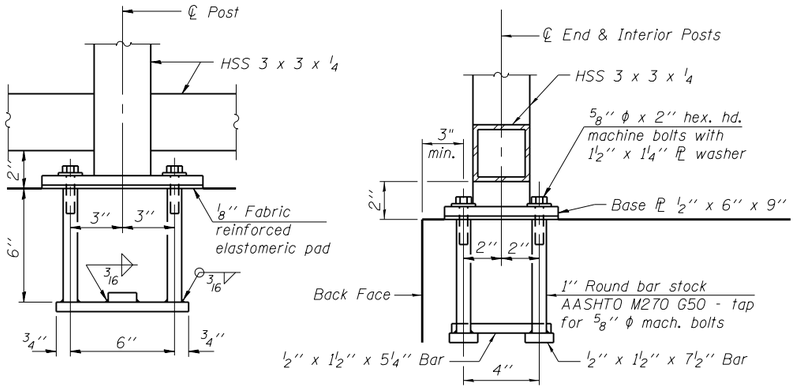
DETAIL A



DETAIL B



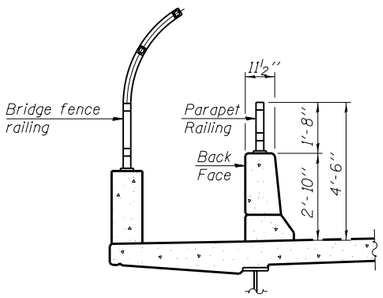
DETAIL C



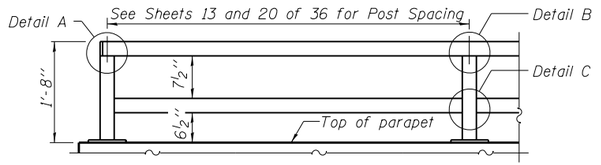
ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

(10'-0" Maximum Post Spacing)



SECTION THRU DECK



PARAPET RAILING ELEVATION
(Inside face of two element rail)

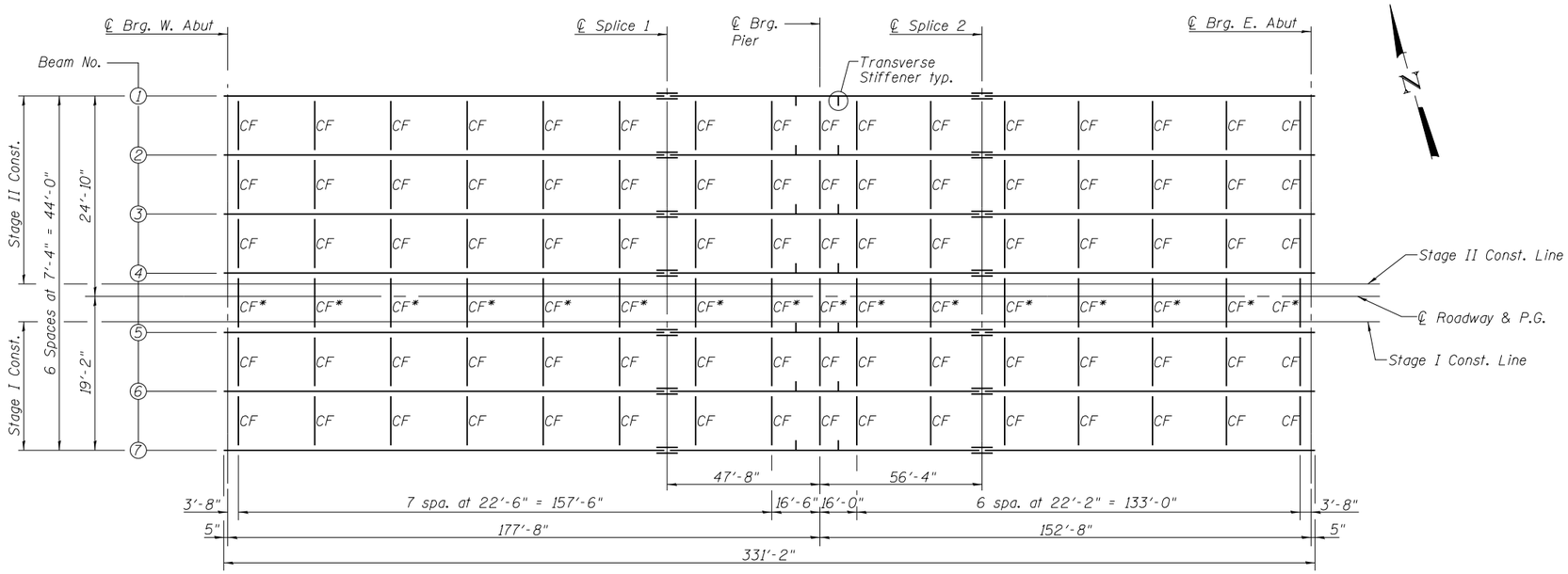
Notes:
All structural steel tubing, post and railing, for parapet railing shall be CVN tested according to 1006.34(b) of the Standard Specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	390

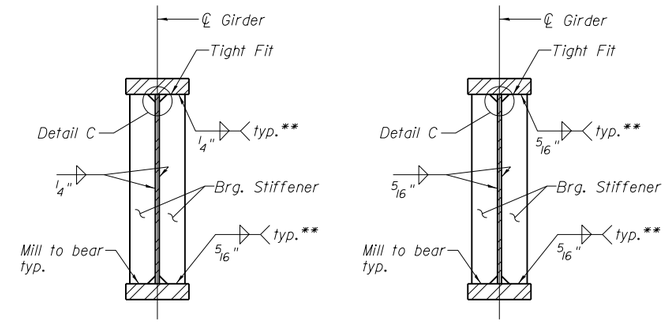
FILE NAME = 0101050-70897-022-Parapet Railing.dgn	USER NAME =	DESIGNED - AAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PARAPET RAILING STRUCTURE NO. 010-1050
BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE-(618)997-3190		CHECKED - BWP	REVISED -		SHEET NO. 22 OF 36 SHEETS
	PLOT SCALE =	DRAWN - BJV	REVISED -		
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	92
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



PLAN

* Location of temporary articulated bracing (see sheet 24 of 36).



BEARING STIFFENER AT ABUTMENT

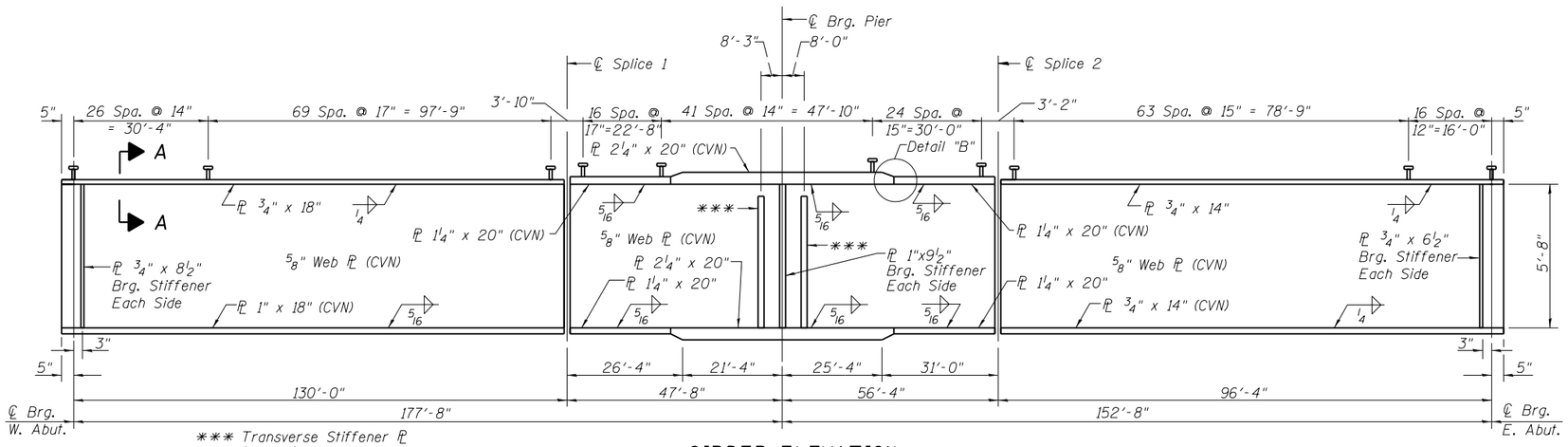
(No. plates required = 28)

BEARING STIFFENER AT PIER

(No. plates required = 14)

** Terminate 1/4" (±1/8") from the end of plate intersects.

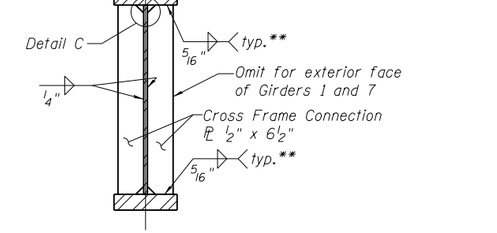
Notes:
All flange, web, and bearing stiffener plates shall be AASHTO M 270 Grade 50.
All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor rods.



*** Transverse Stiffener PL 1/2" x 6 1/2" Interior Face

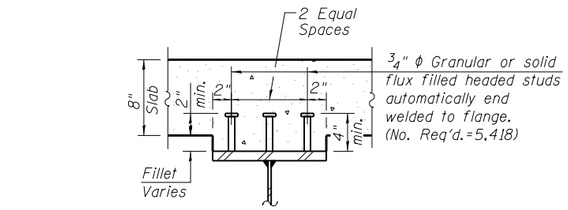
GIRDER ELEVATION

"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.

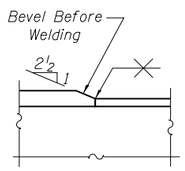


CONNECTION PLATE

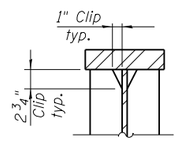
(No. plates required = 180)



SECTION A-A

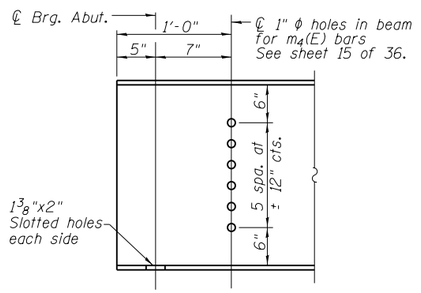


DETAIL "B"

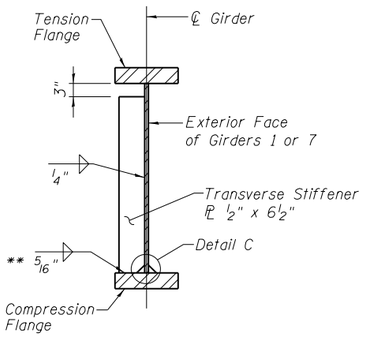


DETAIL "C"

(Typical Top and Bottom Flanges)



TYP. END OF BEAM ELEVATION

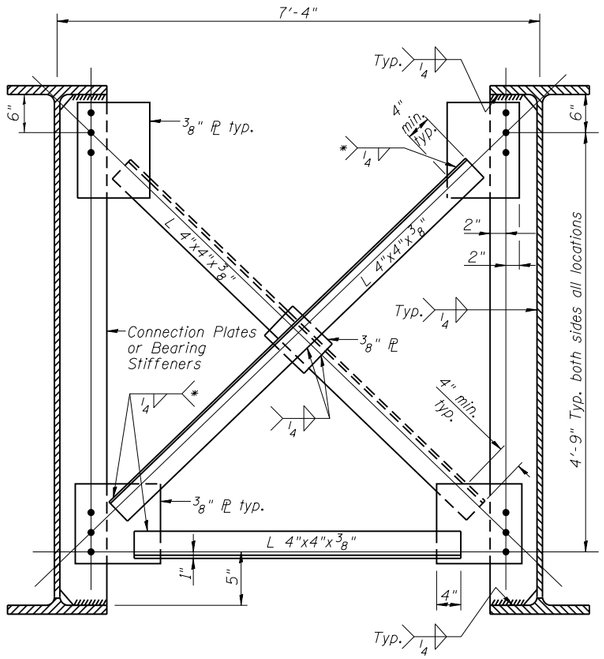


TRANSVERSE STIFFENER

(No. plates required = 14)

FILE NAME = 0101050-70897-023-Structural Steel.dgn	USER NAME =	DESIGNED - AAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURAL STEEL STRUCTURE NO. 010-1050
BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE-(618)997-3190		CHECKED - BWP	REVISED -		SHEET NO. 23 OF 36 SHEETS
	PLOT SCALE =	DRAWN - BJV	REVISED -		
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -		

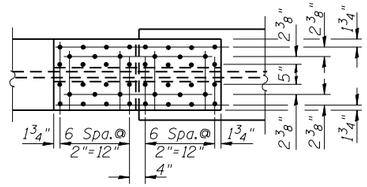
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	93
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



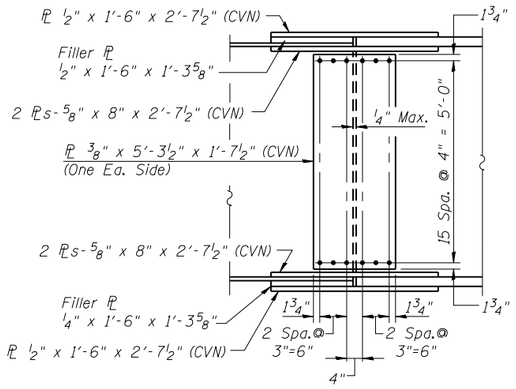
INTERIOR CROSS FRAME CF

(No. Req'd. =96)

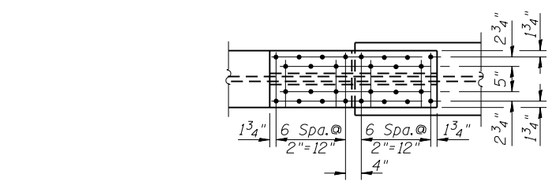
* Fillet weld angles along 3 sides on one face of gusset plate



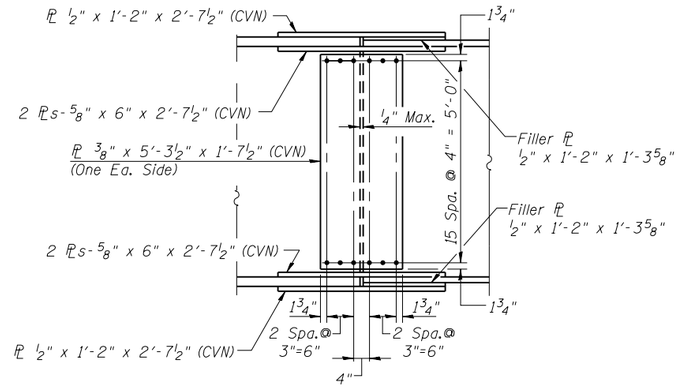
TOP & BOTTOM FLANGE



FIELD SPLICE 1 DETAIL

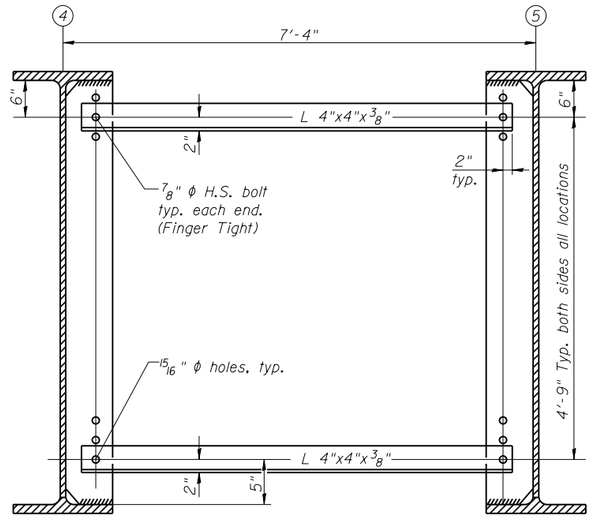


TOP & BOTTOM FLANGE



FIELD SPLICE 2 DETAIL

Notes:
- Use 7/8" ϕ H.S. bolts with 15/16" ϕ holes for all splice connections.
- "CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.
- All splice plates shall be AASHTO M 270 Grade 50.
- Use 3/4" ϕ H.S. bolts with 15/16" ϕ holes for all cross frame connections.
- Two hardened washers required for each set of oversized holes.

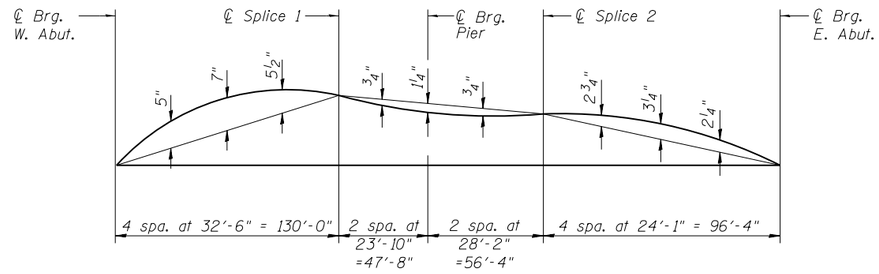


TEMPORARY ARTICULATED BRACING

(No. Req'd. = 16)

See CF for details not shown above.

After closure pour is complete, temporary braces shall be replaced by cross frames CF as shown on framing plan.



CAMBER DIAGRAM

*TOP OF WEB ELEVATIONS

Location	℄ Brg. W. Abut.	℄ Splice 1	℄ Brg. Pier 1	℄ Splice 2	℄ Brg. E. Abut.
Girder 1	793.81	795.09	794.78	794.64	793.43
Girder 2	793.96	795.24	794.93	794.79	793.58
Girder 3	794.11	795.39	795.08	794.94	793.73
Girder 4	794.22	795.50	795.19	795.05	793.84
Girder 5	794.20	795.48	795.17	795.03	793.82
Girder 6	794.08	795.36	795.05	794.91	793.70
Girder 7	793.93	795.21	794.90	794.76	793.55

*For fabrication use only.

FILE NAME = 0101050-70897-024-Structural Steel Details.dgn | USER NAME = | PLOT SCALE = | PLOT DATE = 4/16/2019

DESIGNED - AAH | CHECKED - BWP | DRAWN - BJV | CHECKED - BWP

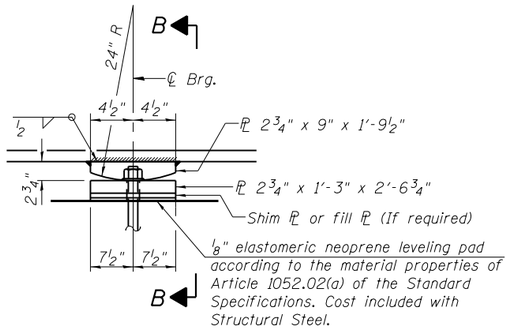
REVISED - | REVISED - | REVISED - | REVISED -

BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE-618.997.3190

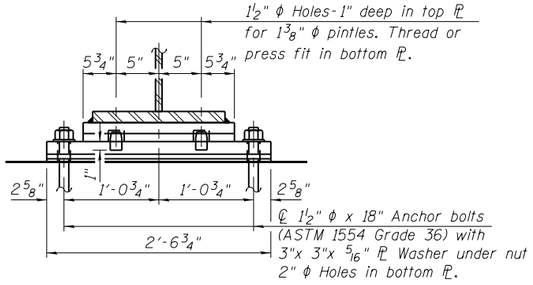
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 010-1050
SHEET NO. 24 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	94
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

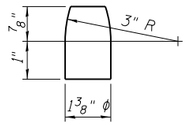


ELEVATION AT PIER

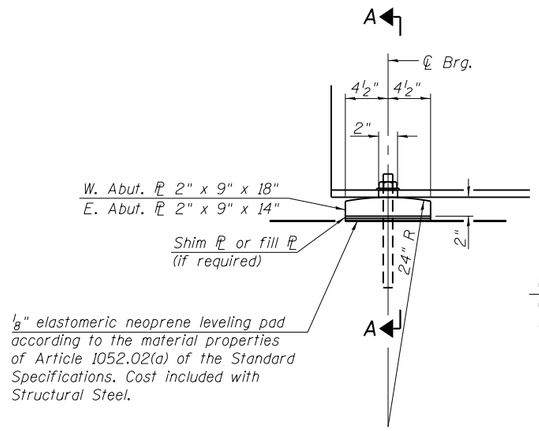


SECTION B-B

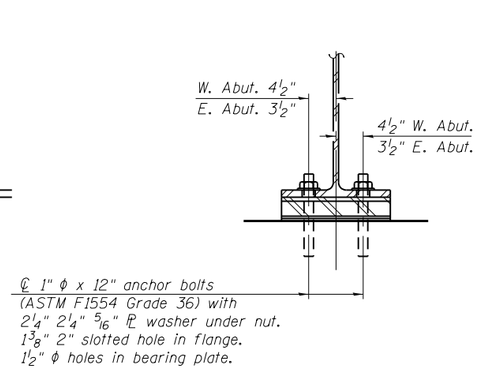
FIXED BEARING



PINTLE



ELEVATION AT ABUTMENT



SECTION A-A

FIXED BEARING

INTERIOR GIRDER MOMENT TABLE					
		0.4 Sp. 1	Pier	0.6 Sp. 2
I_s	(in^4)	53,423	127,454	41,192
$I_c(n)$	(in^4)	121,039	213,591	97,046
$I_c(3n)$	(in^4)	88,669	166,518	71,477
$I_c(cr)$	(in^4)	-----	138,972	-----
S_s	(in^3)	1,625	3,516	1,185
$S_c(n)$	(in^3)	2,197	4,083	1,695
$S_c(3n)$	(in^3)	1,993	3,824	1,521
$S_c(cr)$	(in^3)	-----	3,620	-----
DC1	(k/')	1,065	1,294	1,024
M_{DC1}	('k)	2,244	4,605	1,104
DC2	(k/')	0,275	0,275	0,275
M_{DC2}	('k)	593	1,121	321
DW	(k/')	0,327	0,327	0,327
M_{DW}	('k)	705	1,334	381
LLDF		0,546	0,555	0,564
M_{L+IM}	('k)	2,752	3,093	2,217
M_u (Strength I)	('k)	9,420	14,571	6,233
$\phi_f M_n$	('k)	10,378	15,733	8,265
f_s DC1	(ksi)	16.6	15.7	11.2
f_s DC2	(ksi)	3.6	3.7	2.5
f_s DW	(ksi)	4.2	4.4	3.0
f_s (L+IM)	(ksi)	15.0	10.3	15.7
f_s (Service II)	(ksi)	43.9	37.2	37.1
$0.95R_hF_{yf}$	(ksi)	47.5	47.5	47.5
f_s (Total)(Strength I)	(ksi)	-----	-----	-----
$\phi_f F_n$	(ksi)	-----	-----	-----
V_f	(k)	31.1	31.1	32.7

GIRDER REACTION TABLE							
		West Abut.		Pier		East Abut.	
		Interior	Exterior	Interior	Exterior	Interior	Exterior
LLDF		0.767	0.537	0.767	0.537	0.767	0.537
OCF		-----	1.000	---	---	---	1.000
R_{DC1}	(k)	70.4	65.6	243.8	228.1	50.3	46.7
R_{DC2}	(k)	18.1	18.1	59.1	59.1	13.7	13.7
R_{DW}	(k)	21.5	21.5	70.3	70.3	16.2	16.2
R_{LL}	(k)	88.7	62.1	186.9	130.9	82.9	58.0
R_{IM}	(k)	16.9	11.8	30.5	21.4	16.8	11.8
R_{Total}	(k)	215.6	179.1	590.6	509.8	179.9	146.4

Notes:

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

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

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

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

All bearing plates and pintles shall be AASHTO M270 Grade 50.

FILL PLATE THICKNESS

	W. Abut.	Pier	E. Abut.
Girder 4	¼"	¼"	¼"

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in^4 and in^3).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in^4 and in^3).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in^4 and in^3).

$I_c(cr)$, $S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in^4 and in^3).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{L+IM}$

$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
$M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
$M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.

f_s (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
$M_{L+IM} / S_c(n)$ or $M_{L+IM} / S_c(cr)$ as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).
$f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3\ f_s(L+IM)$

$0.95R_hF_yf$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
$1.25\ (f_{sDC1} + f_{sDC2}) + 1.5\ f_{sDW} + 1.75\ f_s(L+IM)$

$\phi_f F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

V_f: Maximum factored shear range in span computed according to Article 6.10.10.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1" ϕ	Each	28
Anchor Bolts, 1½" ϕ	Each	14

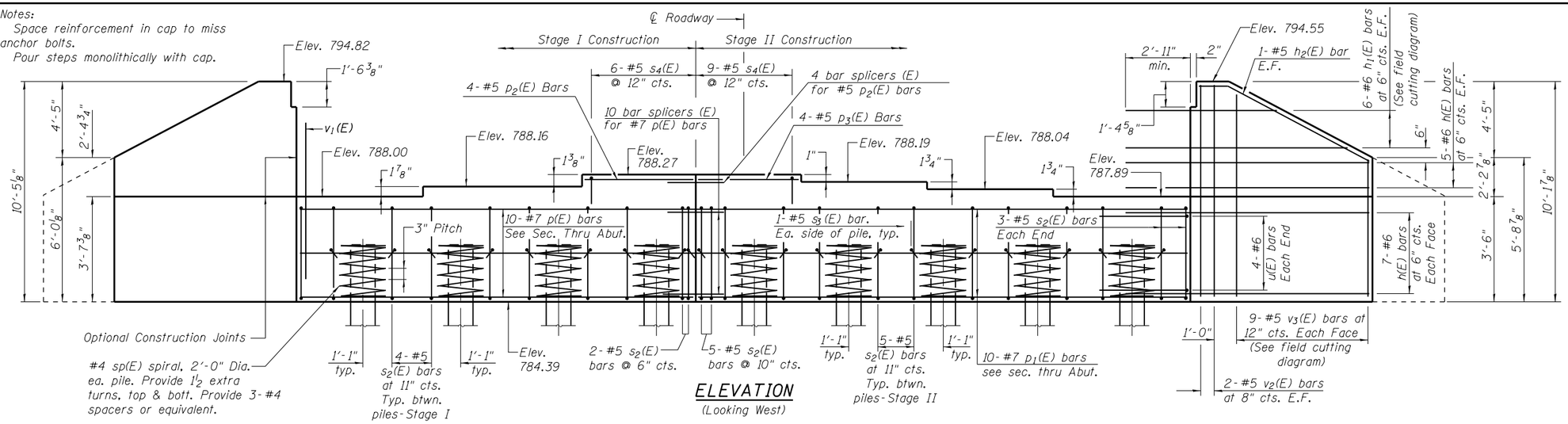
FILE NAME = 0101050-70897-025-Fixed Brg Details.dgn	USER NAME =	DESIGNED - AAH	REVISED -	
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE-618.997.9160		CHECKED - BWP	REVISED -	
	PLOT SCALE =	DRAWN - BJV	REVISED -	
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

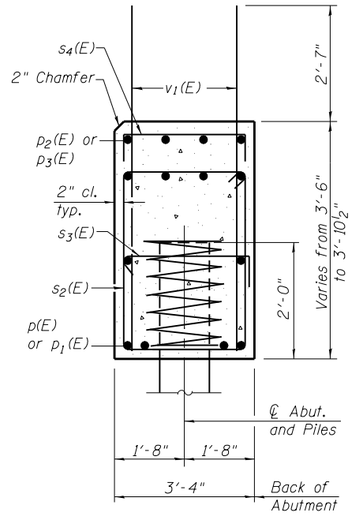
FIXED BEARING DETAILS
STRUCTURE NO. 010-1050
SHEET NO. 25 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	95
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

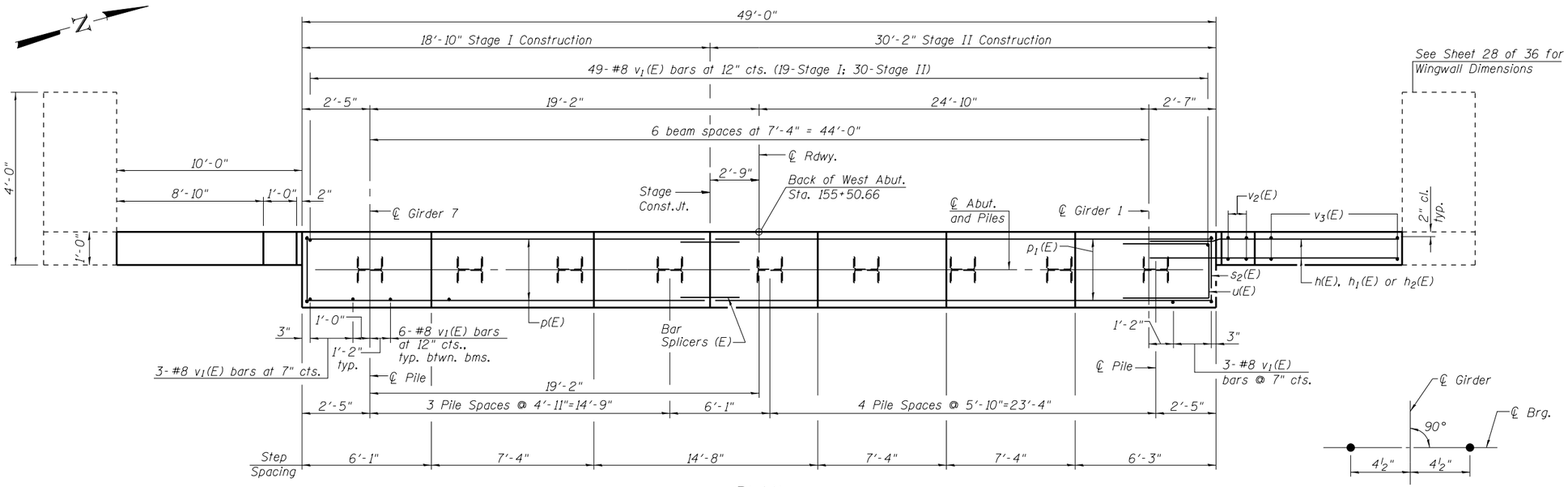
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.



ELEVATION
(Looking West)



SEC. THRU ABUT.



PLAN

See Sheet 28 of 36 for Wingwall Dimensions

ANCHOR BOLT LAYOUT

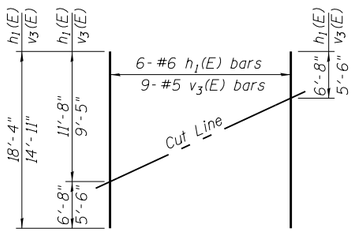
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	48	#5	12'-9"	
h_1(E)	12	#6	18'-4"	
h_2(E)	4	#5	10'-6"	
p(E)	10	#7	18'-6"	
p_1(E)	10	#7	29'-10"	
p_2(E)	4	#5	5'-1"	
p_3(E)	4	#5	8'-11"	
s_2(E)	45	#5	13'-3"	
s_3(E)	18	#5	4'-0"	
s_4(E)	15	#5	7'-0"	
* s_p(E)	9	#4	2'-0"	
u(E)	8	#6	10'-6"	
v_1(E)	91	#8	5'-11"	
v_2(E)	8	#5	9'-10"	
v_3(E)	18	#5	14'-11"	
Structure Excavation		Cu. Yd.	138	
Concrete Structures		Cu. Yd.	28.7	
Reinforcement Bars, Epoxy Coated		Pound	5,210	
Furnishing Steel Piles, HP 14x102		Foot	600	
Driving Piles		Foot	600	
Test Pile, HP 14x102		Each	1	

For details of piles see sheet 30 of 36.
*Length is height of spiral.

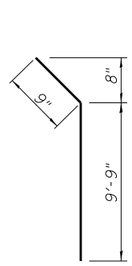
PILE DATA

Type: HP 14x102
Nominal Required Bearing: 535K
Factored Resistance Available: 294K
Est. Length: 75'
No. Production Piles: 8
No. Test Piles: 1

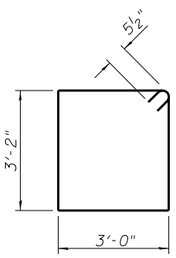


FIELD CUTTING DIAGRAM

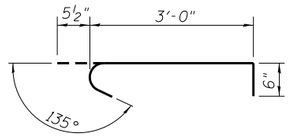
Order h_1(E) and v_3(E) full length. Cut as shown and use remainder of bars in opposite face.



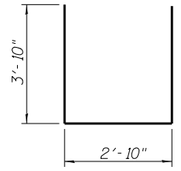
BAR h_2(E)



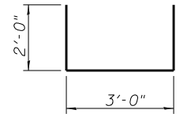
BAR s_2(E)



BAR s_3(E)



BAR u(E)



BAR s_4(E)

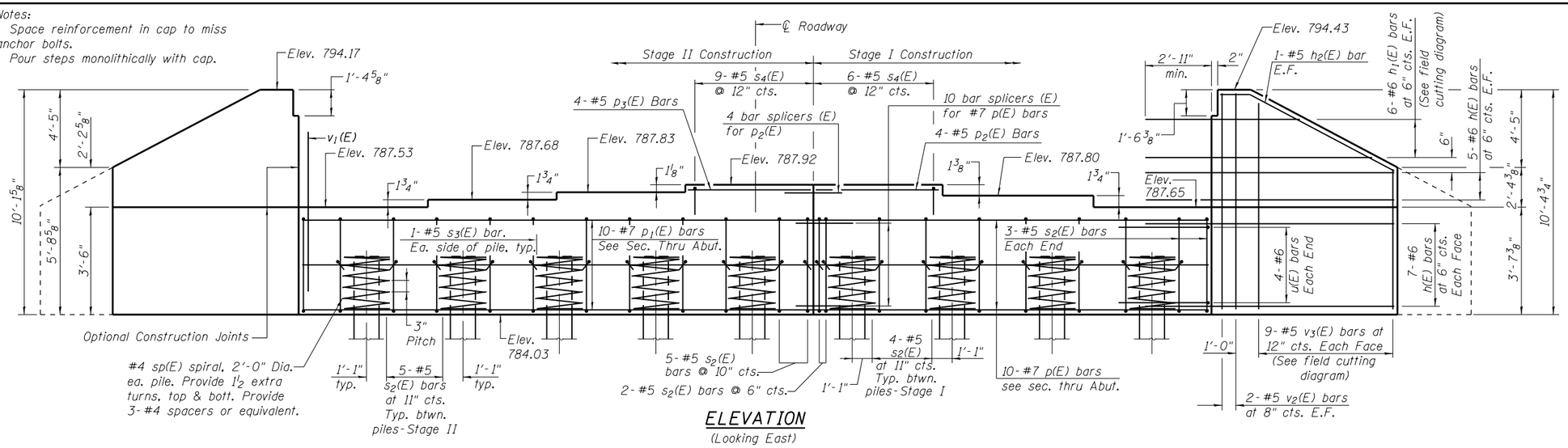
FILE NAME = 0101050-70897-026-West Abutment.dgn	USER NAME =	DESIGNED - AAH	REVISED -
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.9150		CHECKED - BWP	REVISED -
	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

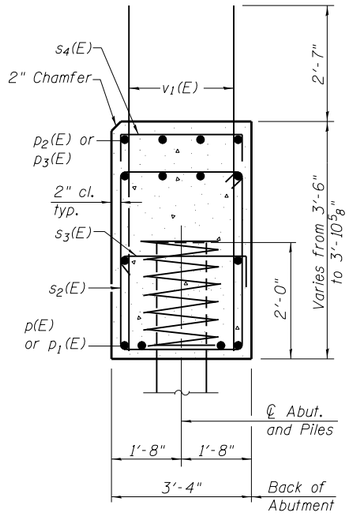
WEST ABUTMENT
STRUCTURE NO. 010-1050
SHEET NO. 26 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	96
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		

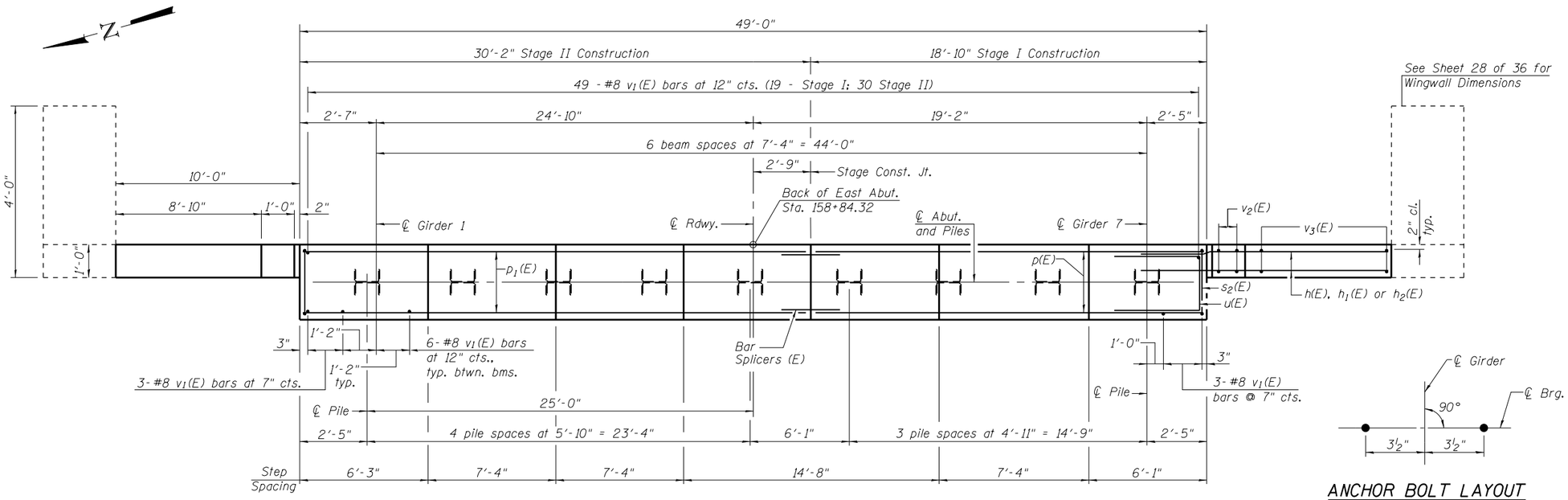
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.



ELEVATION
(Looking East)

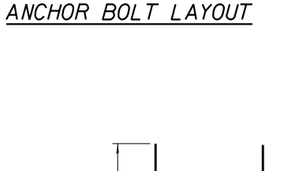


SEC. THRU ABUT.



PLAN

See Sheet 28 of 36 for Wingwall Dimensions



ANCHOR BOLT LAYOUT

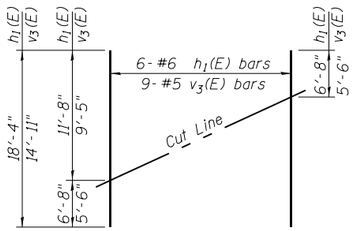
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	48	#5	12'-9"	
$h_1(E)$	12	#6	18'-4"	
$h_2(E)$	4	#5	10'-6"	
p(E)	10	#7	18'-6"	
$p_1(E)$	10	#7	29'-10"	
$p_2(E)$	4	#5	5'-1"	
$p_3(E)$	4	#5	8'-11"	
$s_2(E)$	45	#5	13'-3"	
$s_3(E)$	18	#5	4'-0"	
$s_4(E)$	15	#5	7'-0"	
* $s_p(E)$	9	#4	2'-0"	
u(E)	8	#6	10'-6"	
$v_1(E)$	91	#8	5'-11"	
$v_2(E)$	8	#5	9'-10"	
$v_3(E)$	18	#5	14'-11"	
Structure Excavation		Cu. Yd.	138	
Concrete Structures		Cu. Yd.	28.7	
Reinforcement Bars, Epoxy Coated		Pound	5,210	
Furnishing Steel Piles, HP 14x102		Foot	1,048	
Driving Piles		Foot	1,048	
Test Pile, HP 14x102		Each	1	

*Length is height of spiral.
For details of piles see sheet 30 of 36.

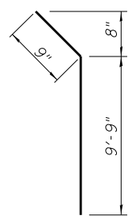
PILE DATA

Type: HP 14x102
Nominal Required Bearing: 620 Kips
Factored Resistance Available: 341 Kips
Est. Length: 131'
No. Production Piles: 8
No. Test Piles: 1

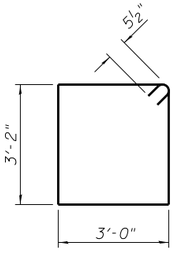


FIELD CUTTING DIAGRAM

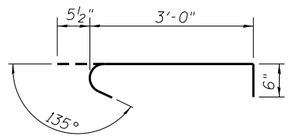
Order $h_1(E)$ and $v_3(E)$ full length. Cut as shown and use remainder of bars in opposite face.



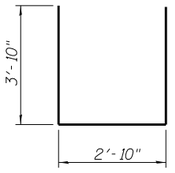
BAR $h_2(E)$



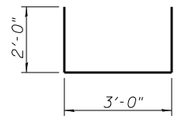
BAR $s_2(E)$



BAR $s_3(E)$



BAR u(E)



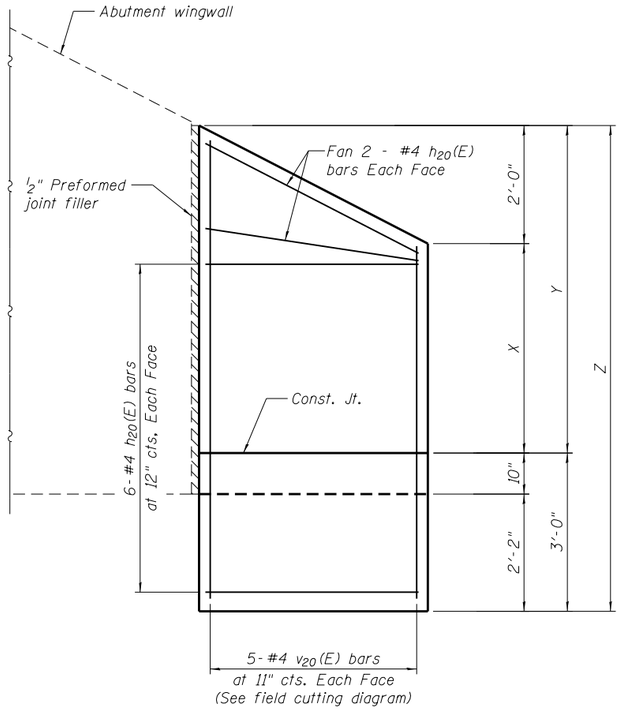
BAR $s_4(E)$

FILE NAME = 0101050-70897-027-East Abutment.dgn	USER NAME =	DESIGNED - AAH	REVISED -	
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.3190		CHECKED - BWP	REVISED -	
	PLOT SCALE =	DRAWN - BJV	REVISED -	
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -	

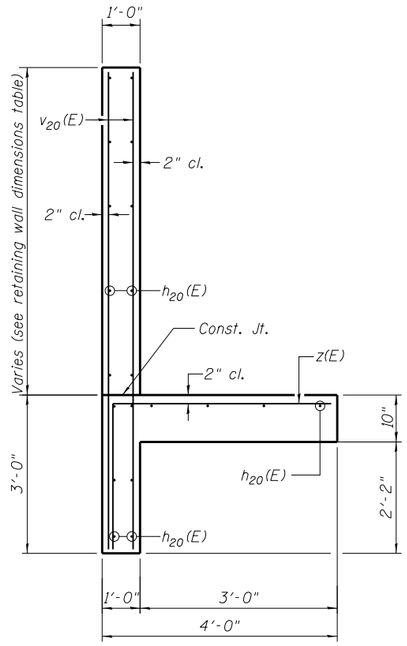
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 010-1050
SHEET NO. 27 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	97
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		

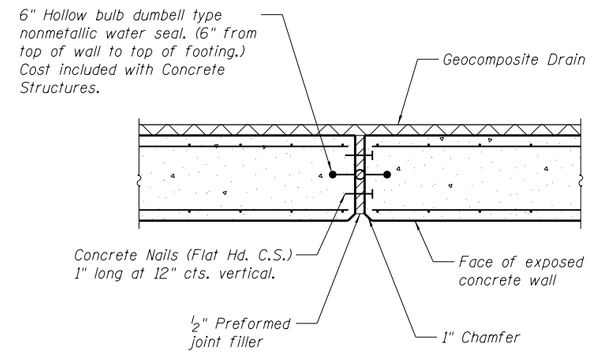


ELEVATION

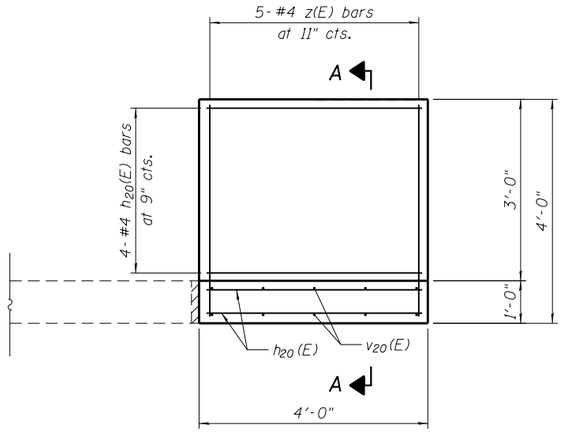


SECTION A-A

Maximum Applied Service Bearing Pressure, Qmax = 2,100 psf



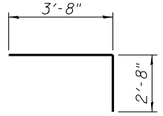
EXPANSION JOINT DETAIL



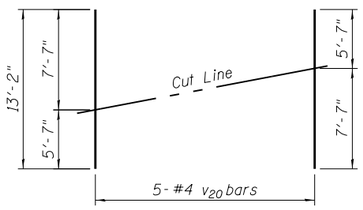
PLAN

RETAINING WALL DIMENSIONS

	West Abut.		East Abut.	
Dimension	North	South	North	South
X	2'-10 7/8"	3'-2 1/8"	2'-10 5/8"	3'-1 3/4"
Y	4'-10 7/8"	5'-2 1/8"	4'-10 5/8"	5'-1 3/4"
Z	7'-10 7/8"	8'-2 1/8"	7'-10 5/8"	8'-1 3/4"



BAR z(E)



FIELD CUTTING DIAGRAM

Order bars shown full length. Cut as shown and use remainder of bars in opposite face.

BILL OF MATERIAL
4 WINGWALL EXTENSIONS

Bar	No.	Size	Length	Shape
$h_{20}(E)$	80	#4	3'-8"	
$v_{20}(E)$	20	#4	13'-2"	
z(E)	20	#4	6'-4"	
Concrete Structures			Cu. Yd.	5.6
Reinforcement Bars, Epoxy Coated			Pound	460

FILE NAME = 0101050-70897-028-Wingwalls.dgn | USER NAME = | DESIGNED - AAH | REVISED -
PLOT SCALE = | DRAWN - BJV | REVISED -
PLOT DATE = 4/16/2019 | CHECKED - BWP | REVISED -
CHECKED - BWP | REVISED -

BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.
403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.9160

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

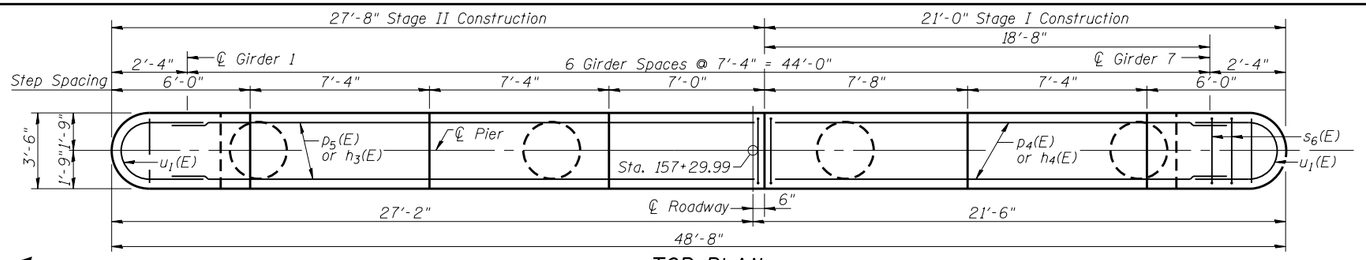
WINGWALLS
STRUCTURE NO. 010-1050
SHEET NO. 28 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	98
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

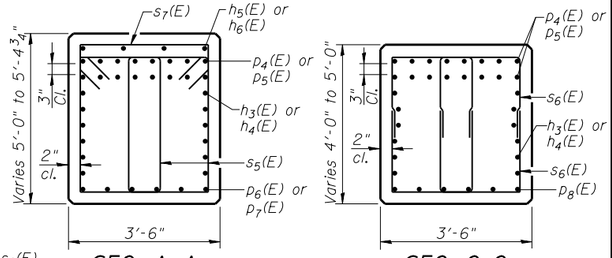
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheets 31 of 36.

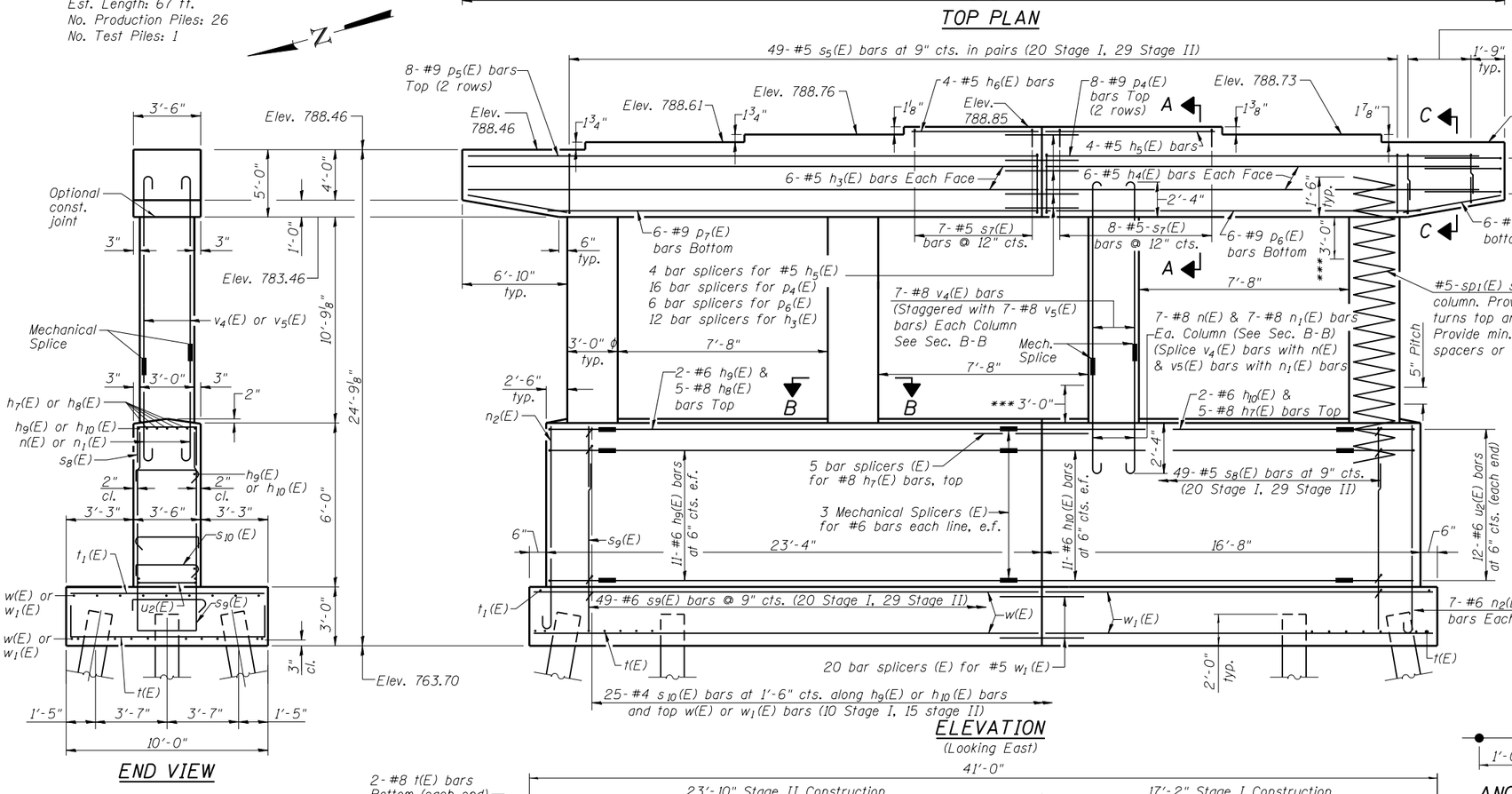
PILE DATA

Type: Metal Shell Piles 14" x 0.250" Walls
Nominal Required Bearing: 413k
Factored Resistance Available: 227k
Est. Length: 67 ft.
No. Production Piles: 26
No. Test Piles: 1



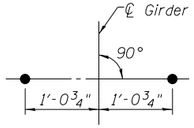
TOP PLAN



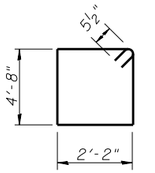


ELEVATION
(Looking East)

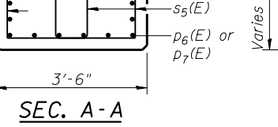
END VIEW



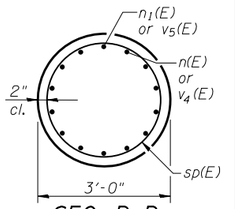
ANCHOR BOLT LAYOUT



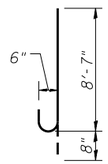
BAR s_5(E)



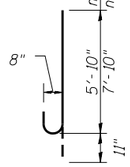
BAR t(E)



SEC. B-B

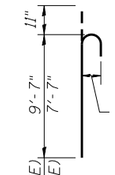


BAR n_2(E)



BARS n(E) & n_1(E)

* In pairs top and bottom
** Length is height of spiral
*** Splicing of reinforcement will not be allowed in this region



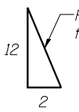
BAR v_4(E) & v_5(E)

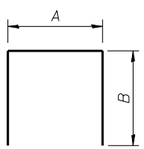
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_3(E)	12	#5	25'-9"	—
h_4(E)	12	#5	19-1"	—
h_5(E)	4	#5	7'-4"	—
h_6(E)	4	#5	6'-8"	—
h_7(E)	5	#8	14'-9"	—
h_8(E)	5	#8	21'-5"	—
h_9(E)	24	#6	16'-3"	—
h_{10}(E)	24	#6	11'-7"	—
n(E)	28	#8	6'-9"	⊃
n_1(E)	28	#8	8'-9"	⊃
n_2(E)	14	#6	9'-3"	⊃
p_4(E)	16	#9	19'-1"	—
p_5(E)	16	#9	25'-9"	—
p_6(E)	6	#9	14'-6"	—
p_7(E)	6	#9	21'-2"	—
p_8(E)	12	#9	6'-2"	—
s_5(E)	98	#5	14'-7"	⊐
s_6(E)	72	#5	10'-0"	L
s_7(E)	15	#5	7'-2"	L
s_8(E)	49	#5	9'-10"	L
s_9(E)	49	#6	19'-6"	L
s_{10}(E)	325	#4	3'-11"	⊐
sp_1(E)	4	#5	13'-9"	∿∿
t(E)	44	#8	14'-6"	L
t_1(E)	50	#5	9'-6"	—
u_1(E)	16	#6	11'-11"	⊃⊃
u_2(E)	24	#6	13'-5"	⊃⊃
v_4(E)	28	#8	10'-6"	⊃
v_5(E)	28	#8	8'-6"	⊃
w(E)	20	#5	23'-5"	—
w_1(E)	20	#5	16'-9"	—
Structure Excavation		Cu. Yd.	143	
Concrete Structures		Cu. Yd.	120.2	
Reinforcement Bars, Epoxy Coated		Pound	18,510	
Furnishing Metal Shell Piles, 14" x .250"		Foot	1742	
Driving Piles		Foot	1742	
Test Pile, Metal Shells		Each	1	

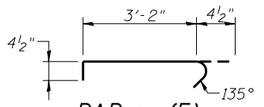
A&B DIMENSIONS

Bar	A	B
S_6(E)	2'-2"	3'-11"
S_7(E)	3'-2"	2'-0"
S_8(E)	3'-2"	3'-4"
S_9(E)	3'-2"	8'-2"

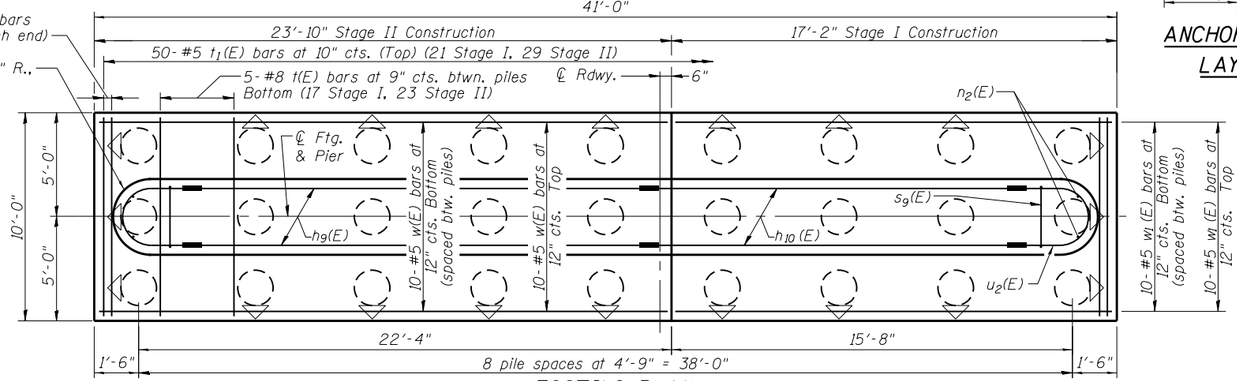




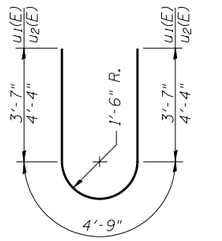
BARS



BAR s_{10}(E)
(alternate end for end)



FOOTING PLAN



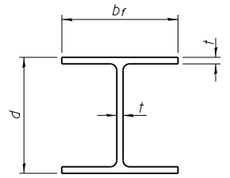
BARS u_1(E) & u_2(E)

FILE NAME = 0101050-70897-029-Pier 1.dgn	USER NAME =	DESIGNED - AAH	REVISED -
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.9190		CHECKED - BWP	REVISED -
	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

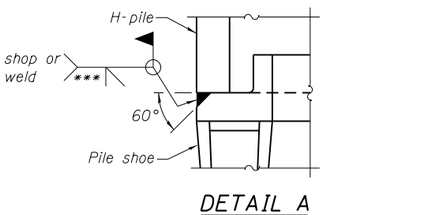
PIER 1
STRUCTURE NO. 010-1050
SHEET NO. 29 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	99
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



STEEL PILE TABLE

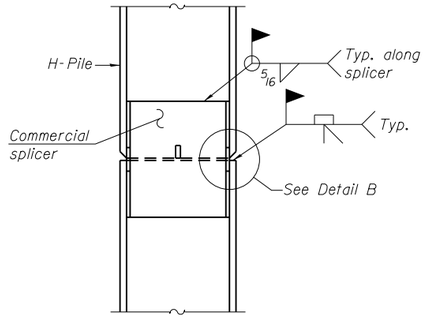
Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



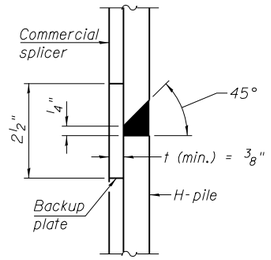
ELEVATION

DETAIL A

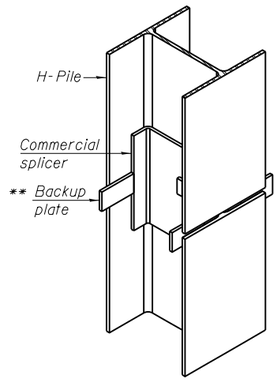
H-PILE SHOE ATTACHMENT



ELEVATION

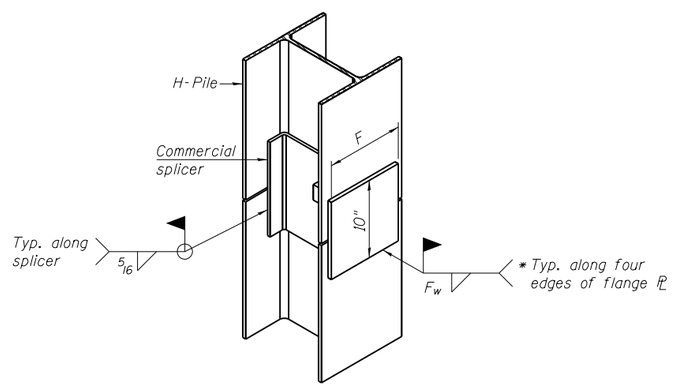


DETAIL "B"

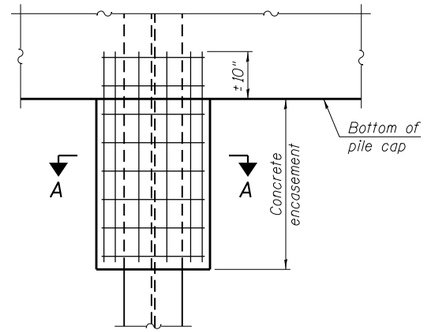


ISOMETRIC VIEW

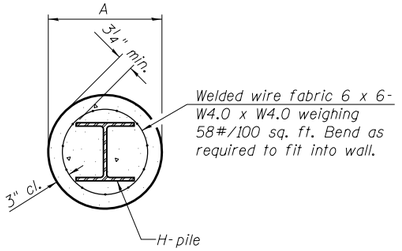
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW



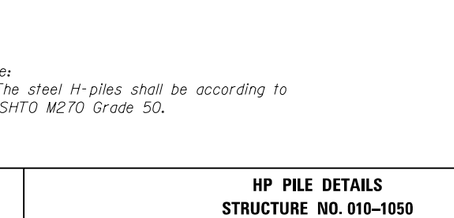
ELEVATION



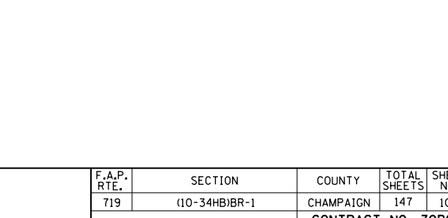
Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

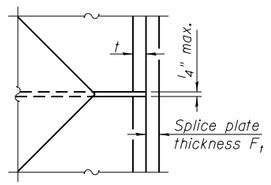
PILE ENCASEMENT



ELEVATION



END VIEW



DETAIL D

Designation	F	F_t	F_w	W	W_t	W_w
HP 14x117	12 1/2"	1"	7/8"	7 3/4""	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).

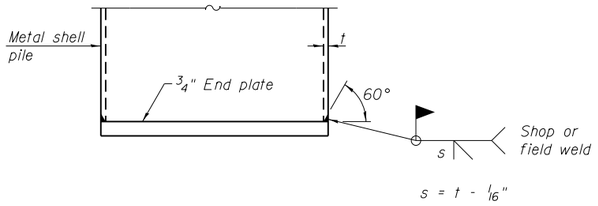
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 1-27-12

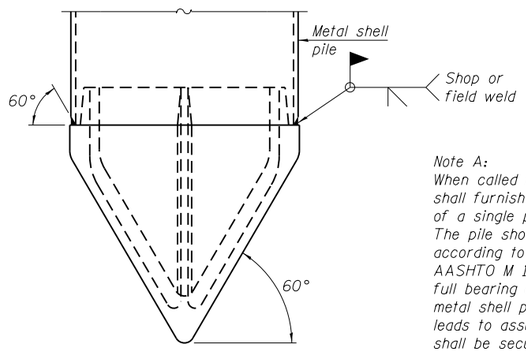
FILE NAME = 0101050-70897-030-HP Pile Details.dgn	USER NAME =	DESIGNED - AAH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HP PILE DETAILS STRUCTURE NO. 010-1050	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.3190		CHECKED - BWP	REVISED -			719	(10-34HB)BR-1	CHAMPAIGN	147	100
	PLOT SCALE =	DRAWN - BJV	REVISED -		SHEET NO. 30 OF 36 SHEETS			CONTRACT NO. 70B98		
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -					ILLINOIS FED. AID PROJECT		

METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



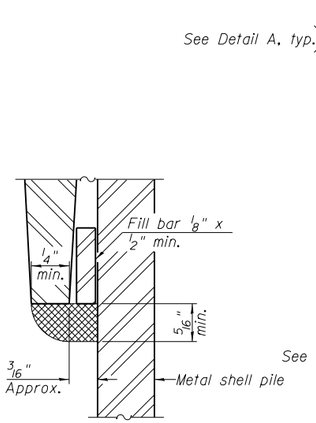
END PLATE ATTACHMENT



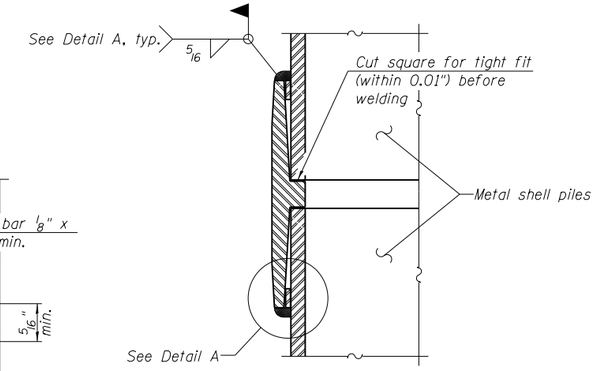
Note A:
When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

METAL SHELL PILE SHOE ATTACHMENT

(See Note A)

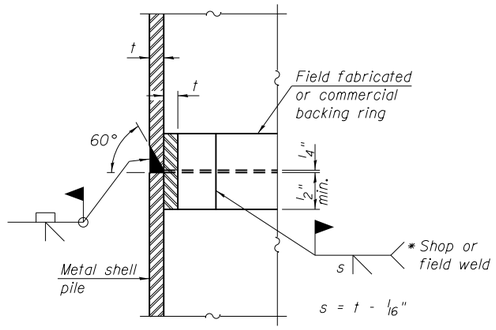


DETAIL A



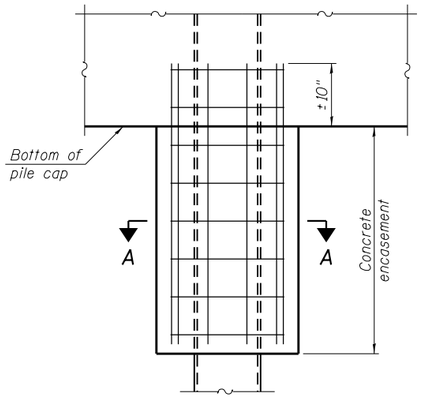
Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE

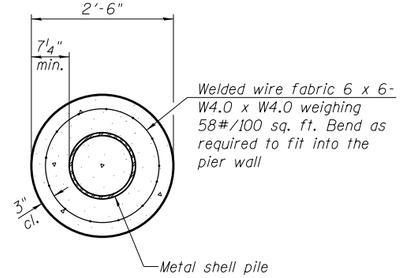


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



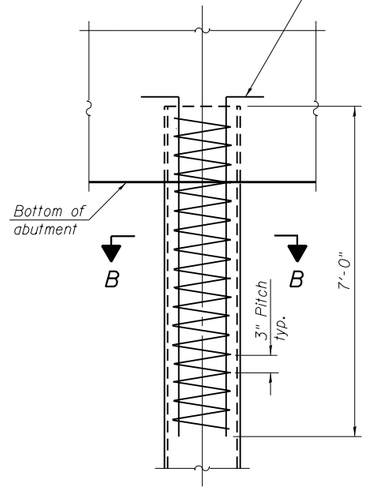
ELEVATION



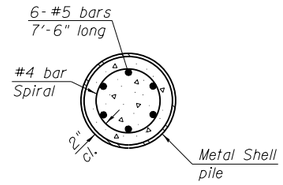
SECTION A-B

Note:
Forms for encasement may be omitted when soil conditions permit.

CONCRETE ENCASEMENT AT PIERS



ELEVATION



SECTION B-B

METAL SHELL REINFORCEMENT AT ABUTMENTS

Note:
The metal shell piles shall be according to ASTM A 252 Grade 3.

F-MS 1-27-12

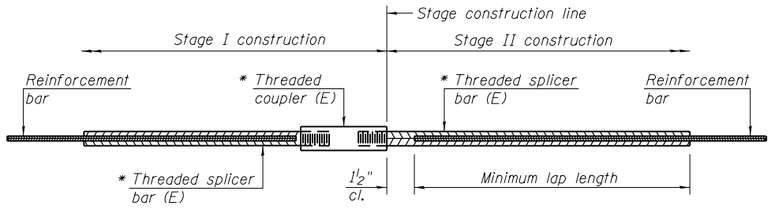
FILE NAME = 0101050-70897-03|-Metal Shell Pile Details.dgn	USER NAME =	DESIGNED - AAH	REVISED -
		CHECKED - BWP	REVISED -
	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -

BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.
403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE 618.997.9160

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
STRUCTURE NO. 010-1050
SHEET NO. 31 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	101
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

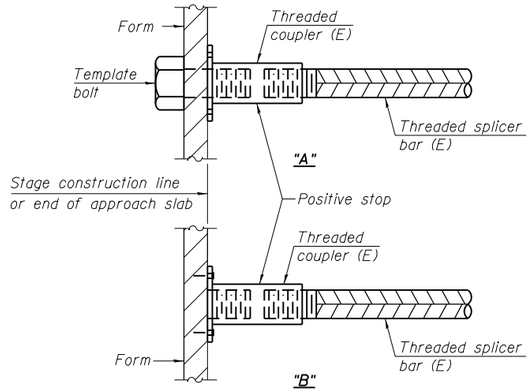


STANDARD BAR SPLICER ASSEMBLY

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

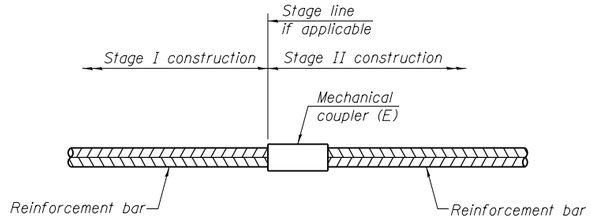
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	1167	3'-6"
Diaphragms	#6	22	4'-0"
Approach Slab	#4	62	2'-7"
Approach Footings	#5	80	3'-2"
West Abutment Cap	#7	10	5'-0"
West Abutment Step	#5	4	3'-7"
East Abutment Cap	#7	10	5'-0"
East Abutment Step	#5	4	3'-7"
Pier Cap	#9	22	10'-4"
Pier Cap	#5	20	3'-9"
Pier Crash Wall	#8	5	8'-2"
Pier Footing	#5	20	3'-9"



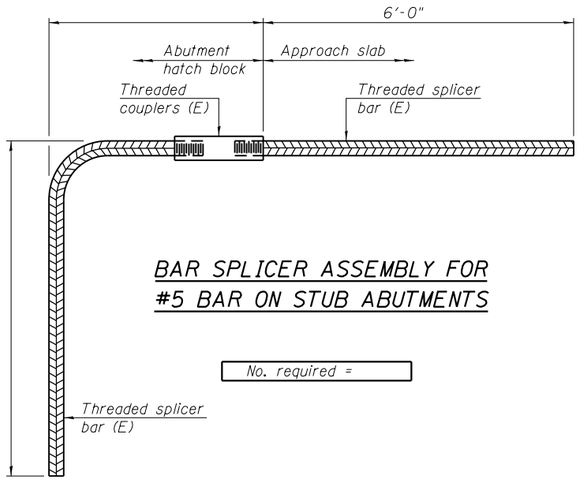
INSTALLATION AND SETTING METHODS

"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
Pier Column	#8	56
Pier Crash Wall	#6	72



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

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.

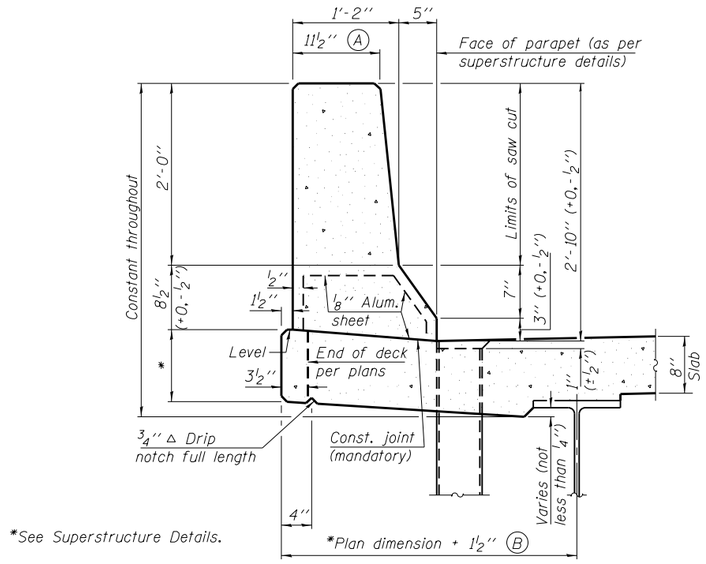
BSD-1 11-22-2016

FILE NAME = 0101050-70897-032-Bar Splicers.dgn	USER NAME =	DESIGNED - AAH	REVISED -
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE: 618.997.3190		CHECKED - BWP	REVISED -
	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

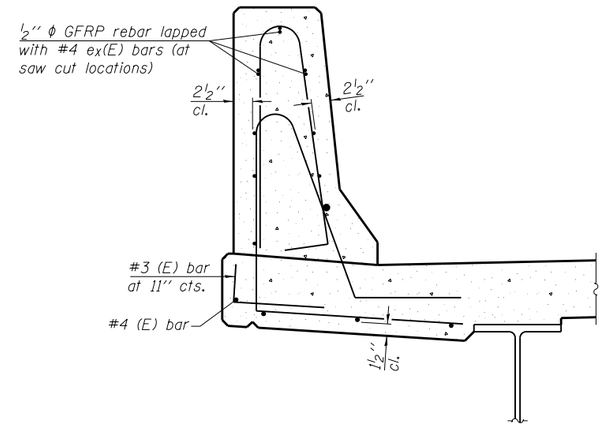
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 010-1050
SHEET NO. 32 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	102
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



34" F SHAPE PARAPET SECTION

(Showing dimensions)



SECTION

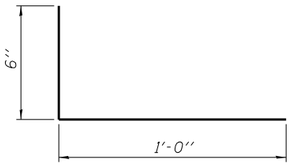
(34" parapet shown - 42" parapet similar)
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

GENERAL NOTES

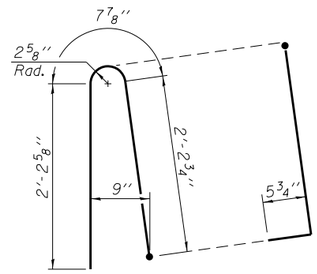
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet.

Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.

Steel superstructure shown. Other superstructure types similar.

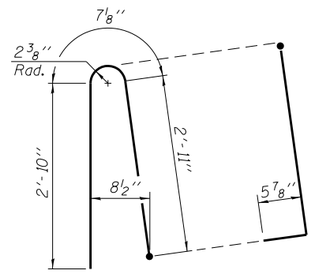


#3 (E) BAR



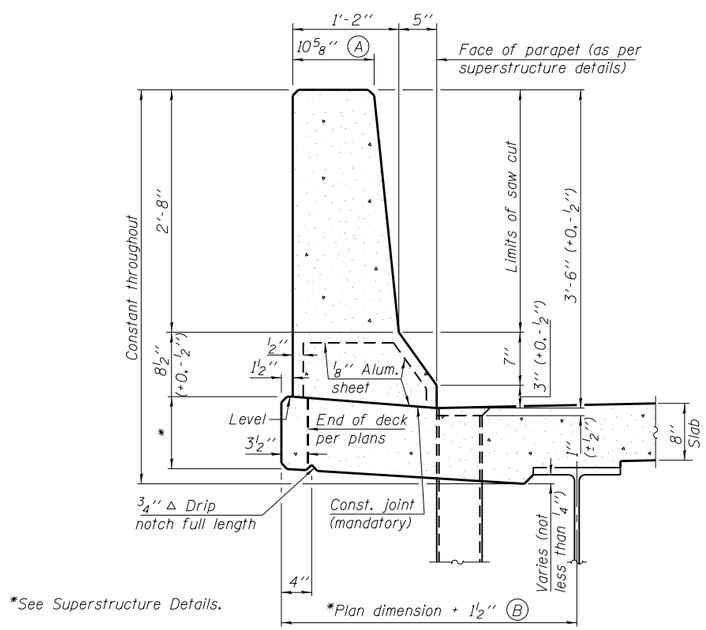
ALTERNATE BAR d(E)

(For 34" parapet when conduit is present)



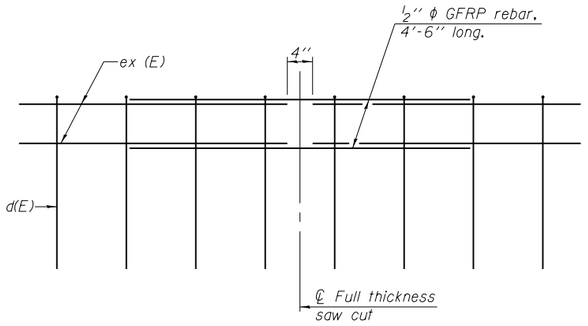
ALTERNATE BAR d(E)

(For 42" parapet when conduit is present)



42" F SHAPE PARAPET SECTION

(Showing dimensions)



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

SFP 34-42

11-22-2016

FILE NAME = 0101050-70897-033- Concrete Parapet Slipforming Option	USER NAME = design	DESIGNED - AAH	REVISED -
BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC. 403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.9190		CHECKED - BWP	REVISED -
	PLOT SCALE =	DRAWN - BJV	REVISED -
	PLOT DATE = 4/16/2019	CHECKED - BWP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 010-1050
SHEET NO. 33 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	103
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
Kaskaskia Engineering Group

SOIL BORING LOG

Date 1/22/15

ROUTE I-57/74 **DESCRIPTION** West Abut Bloomington Rd. over I-57 **LOGGED BY** TLM

SECTION 10(5-1-RS-1, 14-1,6)R **LOCATION** , **SEC.** 34, **TWP.** 20N, **RNG.** 8E, 3 **PM**

COUNTY Champaign **DRILLING METHOD** HSA **HAMMER TYPE** Auto

STRUCT. NO.
Station

BORING NO. B-1 (Bloomington Rd I-57)
Station 155+27
Offset 10.5ft Left
Ground Surface Elev. 790.5 **ft**

Surface Water Elev. n/a **ft**
Stream Bed Elev. **ft**

Groundwater Elev.:
▽ **First Encounter** 715.5 **ft**
▽ **Upon Completion** **ft**
▼ **After** Hrs. **ft**

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
6" HMA 790.00			
10" PCC over sand base 789.17			
SILTY CLAY LOAM TILL: Brown/Black/Gray, very stiff	4		
	5 7	3.5 B	27.2
	3		
	3 3	2.0 P	27.4
-5			
	3		
	3 6	1.32 B	22.2
	3		
	4 6	2.89 B	23.8
-10			
	3		
	3 5	2.47 B	25.4
	3		
	4 5	1.57 B	25.2
775.50 -15			
SILTY CLAY LOAM TILL: Very stiff, organics	3		
	4 5	2.27 B	25.4
	3		
771.00	5 7	1.81 B	26.1
SILTY CLAY: Olive Brown 770.50 -20			

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
SILTY CLAY LOAM TILL: Brown, very stiff			
	3		
	5 6	2.27 B	14.6
-25			
	2		
760.50 -30	7 11	3.5 B	13.0
SILTY CLAY LOAM TILL: Gray, very stiff			
	3		
	5 5	1.81 B	12.3
-35			
	2		
	3 4	1.57 B	12.6
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name P:\GINT\PROJECTS\I 57 74 CHAMPAIGN COUNTY GPJ Data Template D6TEMPLT GDT Date Printed 3/2/15
Latitude Longitude Datum Job Number MCE-14044

Illinois Department of Transportation
Division of Highways
Kaskaskia Engineering Group

SOIL BORING LOG

Date 1/22/15

ROUTE I-57/74 **DESCRIPTION** West Abut Bloomington Rd. over I-57 **LOGGED BY** TLM

SECTION 10(5-1-RS-1, 14-1,6)R **LOCATION** , **SEC.** 34, **TWP.** 20N, **RNG.** 8E, 3 **PM**

COUNTY Champaign **DRILLING METHOD** HSA **HAMMER TYPE** Auto

STRUCT. NO.
Station

BORING NO. B-1 (Bloomington Rd I-57)
Station 155+27
Offset 10.5ft Left
Ground Surface Elev. 790.5 **ft**

Surface Water Elev. n/a **ft**
Stream Bed Elev. **ft**

Groundwater Elev.:
▽ **First Encounter** 715.5 **ft**
▽ **Upon Completion** **ft**
▼ **After** Hrs. **ft**

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
SILTY CLAY LOAM TILL: Gray, very stiff *(continued)*			
	2		
	4 5	1.24 B	12.6
-45			
	3		
	3 7	1.65 B	12.1
-50			
	4		
	6 8	2.06 B	10.4
-55			
	2		
	5 6	1.24 B	10.2
-60			

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
SILTY CLAY LOAM TILL: Gray, very stiff *(continued)*			
	4		
	7 8	1.65 B	16.8
-65			
721.50	4		
SAND and GRAVEL: Coarse sand and fine gravel	8 15		16.2
-70			
	12		
▽ 715.50 -75	17 23		11.1
End of Boring			
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name P:\GINT\PROJECTS\I 57 74 CHAMPAIGN COUNTY GPJ Data Template D6TEMPLT GDT Date Printed 3/2/15
Latitude Longitude Datum Job Number MCE-14044

Illinois Department of Transportation
Division of Highways
Kaskaskia Engineering Group

SOIL BORING LOG

Date 2/10/15

ROUTE I-57/74 **DESCRIPTION** Pier Boring Bloomington Road **LOGGED BY** TLM

SECTION 10(5-1-RS-1, 14-1,6)R **LOCATION** , **SEC.** 34, **TWP.** 20N, **RNG.** 8E, 3 **PM**

COUNTY Champaign **DRILLING METHOD** HSA **HAMMER TYPE** AUTO

STRUCT. NO.
Station

BORING NO. B-2 (Bloomington Rd I-57)
Station 157+30
Offset 35.0ft Left
Ground Surface Elev. 770.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. ft

Groundwater Elev.:
▽ **First Encounter** 727.0 ft
▽ **Upon Completion** ft
▼ **After** Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
SILTY CLAY: Brown and Black, very stiff no topsoil	2		
	4 5	2.5 P	22.0
767.00			
SILTY CLAY LOAM: Brown, soft, wet	1		
	1 1	0.25 P	24.2
-5			
764.50			
SILTY CLAY TILL: Brown, stiff	2		
	3 5	1.07 B	14.5
	3		
	4 7	1.65 B	14.6
-10			
759.50			
SILTY CLAY TILL: Gray, stiff	3		
	6 9	1.73 B	11.2
	3		
	5 9	1.90 B	11.8
-15			
	2		
	5 7	1.4 B	11.9
	3		
	5 7	1.24 B	12.5
-20			

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
SILTY CLAY TILL: Gray, stiff *(continued)*			
	2		
	3 6	1.24 B	11.6
-25			
743.00			
SILTY CLAY TILL: Gray, very stiff	3		
	6 8	2.06 B	11.8
-30			
738.00			
SILTY CLAY LOAM TILL: Gray, stiff	2		
	4 5	1.24 B	12.4
-35			
	5		
	5 5	0.99 B	15.0
-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name P:\GINT\PROJECTS\I 57 74 CHAMPAIGN COUNTY.GPJ Data Template D6TEMPLT.GDT Date Printed 3/2/15
Latitude 40.143063 Longitude -88.287373 Datum Job Number MCE-14044

Illinois Department of Transportation
Division of Highways
Kaskaskia Engineering Group

SOIL BORING LOG

Date 2/10/15

ROUTE I-57/74 **DESCRIPTION** Pier Boring Bloomington Road **LOGGED BY** TLM

SECTION 10(5-1-RS-1, 14-1,6)R **LOCATION** , **SEC.** 34, **TWP.** 20N, **RNG.** 8E, 3 **PM**

COUNTY Champaign **DRILLING METHOD** HSA **HAMMER TYPE** AUTO

STRUCT. NO.
Station

BORING NO. B-2 (Bloomington Rd I-57)
Station 157+30
Offset 35.0ft Left
Ground Surface Elev. 770.00 ft

Surface Water Elev. n/a ft
Stream Bed Elev. ft

Groundwater Elev.:
▽ **First Encounter** 727.0 ft
▽ **Upon Completion** ft
▼ **After** Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
SILTY CLAY LOAM TILL: Gray, stiff *(continued)*			
728.00			
SAND: Gray, medium, very loose ▽	WH		
	WH		19.0
-45	WH		
	8		
trace gravel	12		16.7
-50	13		
717.00			
SILTY CLAY LOAM TILL: Gray, very hard	9		
	12 14	7.62 B	10.5
-55			
713.00			
SILTY CLAY LOAM TILL: Gray, stiff	5		
	5 7	1.65 B	12.6
-60			

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
SILTY CLAY LOAM TILL: Gray, stiff *(continued)*			
708.00			
SILTY CLAY LOAM: Gray, very stiff	2		
	4 6	2.06 B	12.6
-65			
703.00			
SILTY CLAY LOAM: Gray, stiff	2		
	5 7	1.24 B	13.6
-70			
	4		
695.00	6 10	2.47 B	13.2
-75			
End of Boring			
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name P:\GINT\PROJECTS\I 57 74 CHAMPAIGN COUNTY.GPJ Data Template D6TEMPLT.GDT Date Printed 3/2/15
Latitude 40.143063 Longitude -88.287373 Datum Job Number MCE-14044

Illinois Department of Transportation
Division of Highways
Kaskaskia Engineering Group

SOIL BORING LOG

Date 1/22/15

ROUTE I-57/74 DESCRIPTION East Abut Bloomington Rd./I-57 LOGGED BY TLM

SECTION 10(5-1-RS-1, 14-1,6)R LOCATION , SEC. 34, TWP. 20N, RNG. 8E, 3 PM

COUNTY Champaign DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO.
Station

BORING NO. B-3 (Bloomington Rd I-57)
Station 159+25
Offset 12.0ft Right
Ground Surface Elev. 791.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. ft

Groundwater Elev.:
▽ First Encounter 725.0 ft
▽ Upon Completion ft
▼ After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
19" HMA (no base course)			
789.72			
FILL: Silty Clay Loam, brown, hard	5		
	4 6	4.5 P	11.8
	3		
786.80	4	2.89	22.0
-5 SILTY CLAY: Black, stiff	8	B	
	4		
	4 6	1.5 P	27.8
783.80			
SILTY CLAY: Black/Brown, stiff	3		
	3 7	1.65 B	18.5
781.30 -10 SILTY CLAY: Brown, very stiff			
	3		
	3 6	2.47 B	18.9
	3		
-15	5 6	2.89 B	23.0
	3		
773.80	4 6	3.30 B	25.6
SILTY CLAY: Dark Gray, very stiff	3		
771.30 -20	4 6	3.50 B	25.1

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
SILTY CLAY: Gray/Brown/Black, very stiff			
	3		
-25	4 6	3.30 B	25.3
764.30			
SILTY CLAY LOAM TILL: Olive Brown/Gray, soft	2		
-30	3 4	0.74 B	14.8
759.30			
SILTY CLAY LOAM TILL: Brown, stiff	2		
-35	5 5	1.65 B	14.7
754.30			
SILTY CLAY LOAM TILL: Gray, hard	6		
-40	8 9	3.71 B	10.8

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name P:\GINT\PROJECTS\I 57 74 CHAMPAIGN COUNTY.GPJ Data Template D6TEMPLT.GDT Date Printed 3/2/15
Latitude Longitude Datum Job Number MCE-14044

Illinois Department of Transportation
Division of Highways
Kaskaskia Engineering Group

SOIL BORING LOG

Date 1/22/15

ROUTE I-57/74 DESCRIPTION East Abut Bloomington Rd./I-57 LOGGED BY TLM

SECTION 10(5-1-RS-1, 14-1,6)R LOCATION , SEC. 34, TWP. 20N, RNG. 8E, 3 PM

COUNTY Champaign DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO.
Station

BORING NO. B-3 (Bloomington Rd I-57)
Station 159+25
Offset 12.0ft Right
Ground Surface Elev. 791.30 ft

Surface Water Elev. n/a ft
Stream Bed Elev. ft

Groundwater Elev.:
▽ First Encounter 725.0 ft
▽ Upon Completion ft
▼ After Hrs. ft

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
SILTY CLAY LOAM TILL: Gray, hard *(continued)*			
	5		
	6 8	3.50 B	12.1
-45			
	5		
	6 9	4.12 B	11.8
-50			
	4		
	6 8	2.27 B	11.8
-55			
	3		
	6 8	2.27 B	11.3
-60			

DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
SILTY CLAY LOAM TILL: Gray, hard *(continued)*			
	7		
-65	20 33	2.89 B	7.6
▽ 724.30			
SAND & GRAVEL: Medium to coarse sand and fine gravel	6		
-70	7 14		15.7
	6		
-75	5 11		12.8
716.30 End of Boring			
-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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File Name P:\GINT\PROJECTS\I 57 74 CHAMPAIGN COUNTY.GPJ Data Template D6TEMPLT.GDT Date Printed 3/2/15
Latitude Longitude Datum Job Number MCE-14044

FILE NAME = 0101050-70897-036-Soil Boring Logs.dgn
USER NAME =
PLOT SCALE =
PLOT DATE = 4/16/2019

BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.
403 NORTH COURT STREET
MAYON, ILLINOIS 61999
PHONE 618.997.3780

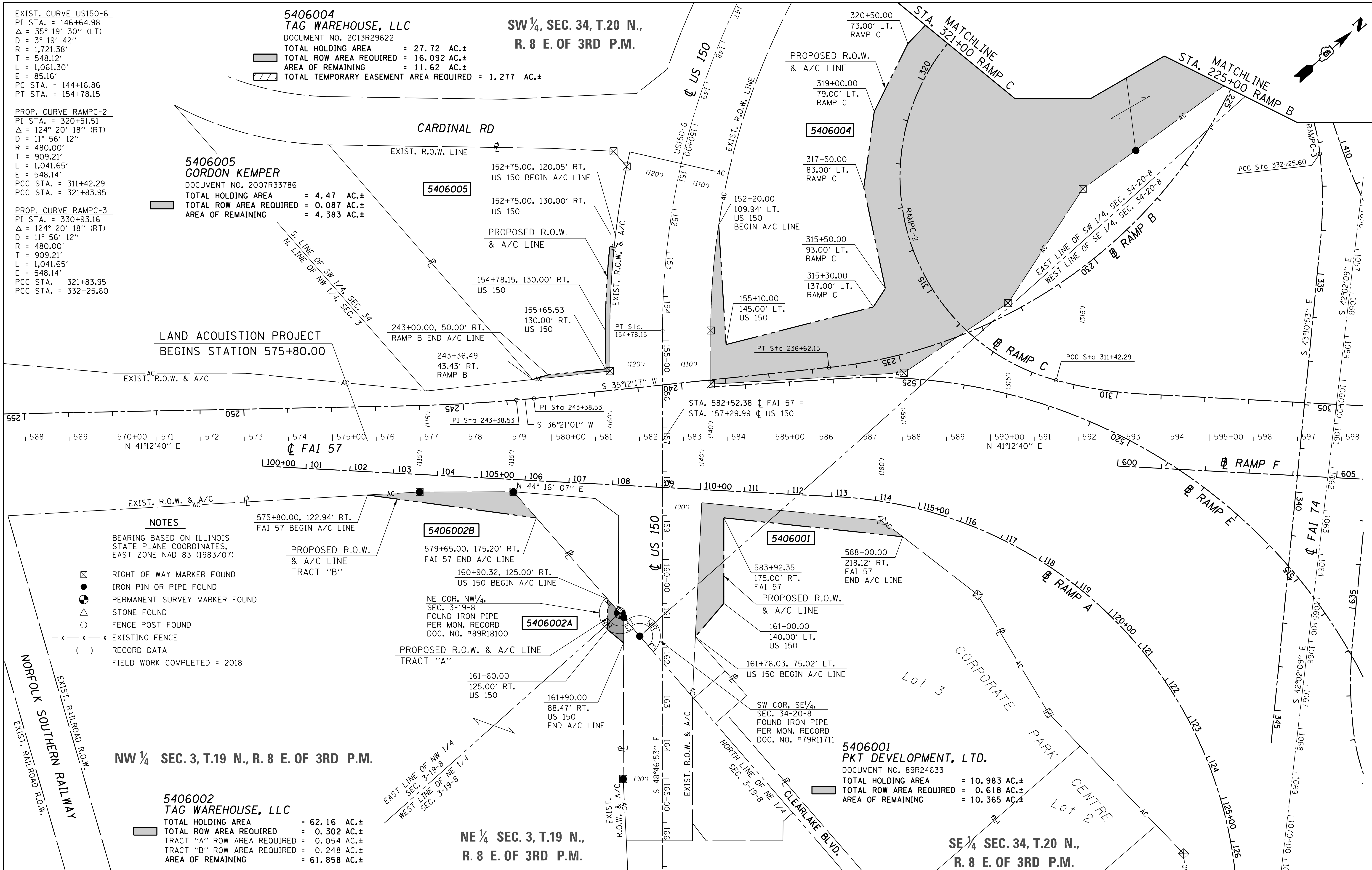
DESIGNED - AAH
CHECKED - BWP
DRAWN - BJV
CHECKED - BWP

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 010-1050
SHEET NO. 36 OF 36 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
719	(10-34HB)BR-1	CHAMPAIGN	147	106
		CONTRACT NO. 70B98		
	ILLINOIS	FED. AID PROJECT		



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		DRAWN - RAH	REVISED -	
	PLOT SCALE = 200.0000 ' / in.	CHECKED - SPH	REVISED -	
	PLOT DATE = 6/3/2019 - 12:05:27 PM	DATE - 05/29/2019	REVISED -	

RIGHT OF WAY PLANS

	PROJECT	JOB NO. R-95-040-16
SCALE: 1" = 200'	SHEET 1 OF 2 SHEETS	STA. 568+00 TO STA. 598+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57&74	(10-34HB)BR-1	CHAMPAIGN	147	107
		CONTRACT NO. 70B98		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PROP. CURVE RAMPC-2
PI STA. = 320+51.51
Δ = 124° 20′ 18″ (RT)
D = 11° 56′ 12″
R = 480.00′
T = 909.21′
L = 1,041.65′
E = 548.14′
PCC STA. = 311+42.29
PCC STA. = 321+83.95

PROP. CURVE RAMPC-3
PI STA. = 330+93.16
Δ = 124° 20′ 18″ (RT)
D = 11° 56′ 12″
R = 480.00′
T = 909.21′
L = 1,041.65′
E = 548.14′
PCC STA. = 321+83.95
PCC STA. = 332+25.60

5406003
WEST CONGREGATION OF JEHOVAH'S WITNESSES, CHAMPAIGN IL
DOCUMENT NO. 2008R10331
TOTAL HOLDING AREA = 5.00 AC.±
TOTAL ROW AREA REQUIRED = 0.286 AC.±
AREA OF REMAINING = 4.714 AC.±

5406006
CITY OF CHAMPAIGN, IL
TOTAL ROW AREA = 2.402 AC.±
TOTAL ROW AREA REQUIRED = 0.540 AC.±
TOTAL ROW REMAINING = 1.862 AC.±

5406004
TAG WAREHOUSE, LLC
DOCUMENT NO. 2013R29622
TOTAL HOLDING AREA = 27.72 AC.±
TOTAL ROW AREA REQUIRED = 16.092 AC.±
AREA OF REMAINING = 11.62 AC.±
TOTAL TEMPORARY EASEMENT AREA REQUIRED = 1.277 AC.±

NE¼ SEC. 34, T.20 N., R. 8 E. OF 3RD P.M.
SE¼ SEC. 34, T.20 N., R. 8 E. OF 3RD P.M.
NW¼, SEC. 34, T.20 N., R. 8 E. OF 3RD P.M.
SW¼, SEC. 34, T.20 N., R. 8 E. OF 3RD P.M.

℄ FAI 74
℄ RAMP B
℄ RAMP H
℄ RAMP C
℄ US 150
℄ MIDWEST COURT

EXIST. R.O.W. & A/C
EXIST. R.O.W. LINE
PROPOSED R.O.W. & A/C LINE

EQUATION:
PI Sta 1870+24.62 BK=
Sta 1035+05.17 AH

S 42°02′15″ E
S 42°02′09″ E
S 38°58′48″ E
S 36°07′21″ E
S 34°58′36″ E
S 56°14′37″ E
S 56°14′56″ E
S 56°33′59″ E

PT Sta 210+00.09
PC Sta 208+00.09
PI Sta 212+00.09
PI Sta. 1044+04.75
PC Sta 222+41.27
PI Sta 19+82.96
PI Sta 17+94.21

214+07.33, 93.58′ RT.
RAMP B
BEGIN A/C LINE

218+00.00, 115.00′ RT.
RAMP B

327+45.00, 94.00′ LT.
RAMP C

326+50.00, 87.00′ LT.
RAMP C

325+98.07, 141.90′ LT.
RAMP C

21+17.96, 51.51′ LT.
MIDWEST CT.

21+02.96, 32.83′ LT.
MIDWEST CT.

21+50.00, 33.20′ RT.
MIDWEST CT.

21+65.44, 43.58′ RT.
MIDWEST CT.

21+75.00, 50.00′ RT.
MIDWEST CT.

23+07.98
50.00′ RT.
MIDWEST CT.
END A/C LINE

323+50.00
60.00′ LT.
RAMP C

323+31.11
58.21′ LT.
RAMP C

322+00.00
69.00′ LT.
RAMP C

MATCHLINE
STA. 225+00 RAMP B

MATCHLINE
STA. 321+00 RAMP C

RAMPC-3
RAMPC-2
PCC Sta 321+83.95

WEST LINE OF SE 1/4, SEC. 34-20-8
EAST LINE OF SW 1/4, SEC. 34-20-8
SOUTH LINE OF NW 1/4, SEC. 34-20-8
NORTH LINE OF SW 1/4, SEC. 34-20-8

Lot 2 of ATKINS WEST INDUSTRIAL SUBDIVISION
ATKINS 150 SUBDIVISION PHASE 1
Lot 101
Lot 102 of ATKINS 150 SUBDIVISION PHASE I
Lot 100

Preliminary/Final Plat
West Congregation of Jehovah's Witness Subdivision No. 1

5406004
5406004TE
5406006
5406003

5406004 TE STATION CALLOUTS

- (A) 218+00.00, 155.00′ RT. RAMP B
- (B) 219+10.00, 170.00′ RT. RAMP B
- (C) 21+00.00, 75.00′ LT. MIDWEST CT.
- (D) 20+80.00, 55.00′ LT. MIDWEST CT.
- (E) 19+82.96, 55.00′ LT. MIDWEST CT.
- (F) 19+82.96, 33.00′ LT. MIDWEST CT.

NOTES

BEARING BASED ON ILLINOIS STATE PLANE COORDINATES, EAST ZONE NAD 83 (1983/07)

- ⊠ RIGHT OF WAY MARKER FOUND
- ● IRON PIN OR PIPE FOUND
- ◔ PERMANENT SURVEY MARKER FOUND
- △ STONE FOUND
- ○ FENCE POST FOUND
- — x — x — x EXISTING FENCE
- ( ) RECORD DATA
- FIELD WORK COMPLETED = 2018

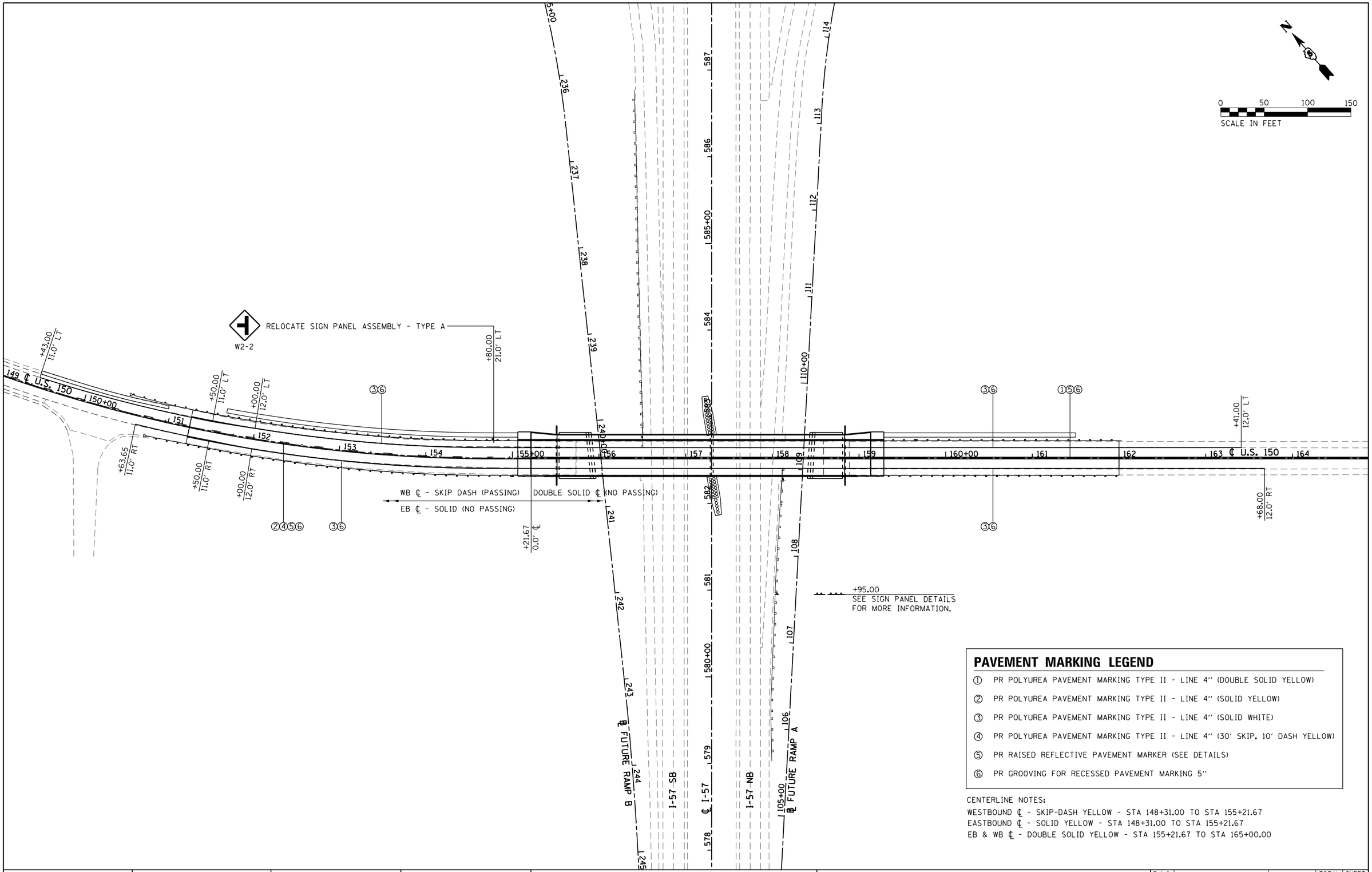
FILE NAME: $FILE$	USER NAME = $USER$	DESIGNED - BJD	REVISED -
		DRAWN - RAH	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - DSE	REVISED -
	PLOT DATE = $DATE$	DATE - 04/11/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

	PROJECT	JOB NO. R-95-040-16
SCALE: 1″ = 200′	SHEET 2 OF 2 SHEETS	STA. 1860+00 TO STA. 1055+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57&74	(10-34HB)BR-1	CHAMPAIGN	147	108
		CONTRACT NO. 70B98		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKING LEGEND

① PR POLYUREA PAVEMENT MARKING TYPE II - LINE 4'' (DOUBLE SOLID YELLOW)

② PR POLYUREA PAVEMENT MARKING TYPE II - LINE 4'' (SOLID YELLOW)

③ PR POLYUREA PAVEMENT MARKING TYPE II - LINE 4'' (SOLID WHITE)

④ PR POLYUREA PAVEMENT MARKING TYPE II - LINE 4'' (30' SKIP, 10' DASH YELLOW)

⑤ PR RAISED REFLECTIVE PAVEMENT MARKER (SEE DETAILS)

⑥ PR GROOVING FOR RECESSED PAVEMENT MARKING 5''

CENTERLINE NOTES:
WESTBOUND ℄ - SKIP-DASH YELLOW - STA 148+31.00 TO STA 155+21.67
EASTBOUND ℄ - SOLID YELLOW - STA 148+31.00 TO STA 155+21.67
EB & WB ℄ - DOUBLE SOLID YELLOW - STA 155+21.67 TO STA 165+00.00

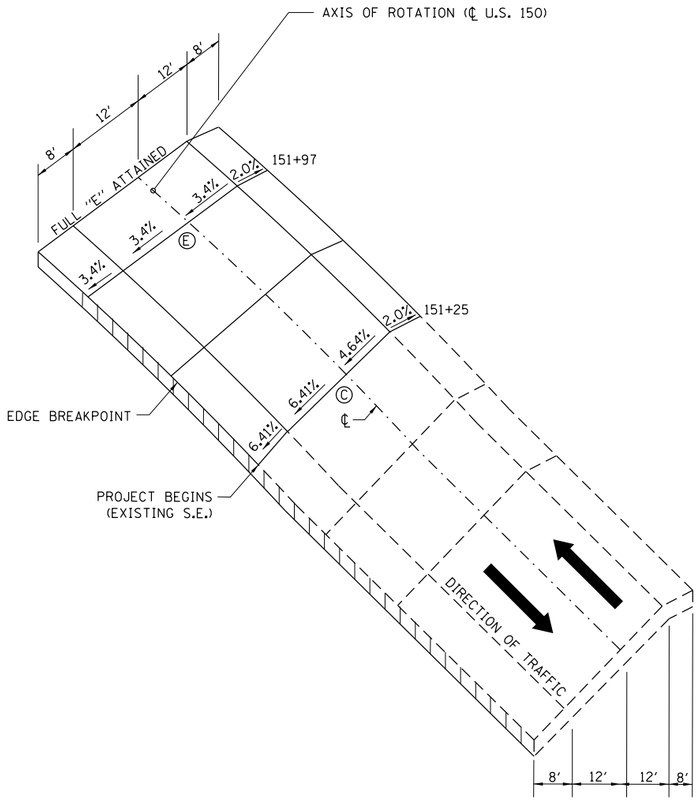
FILE NAME = D570898-sht-pmk.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:56:07 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

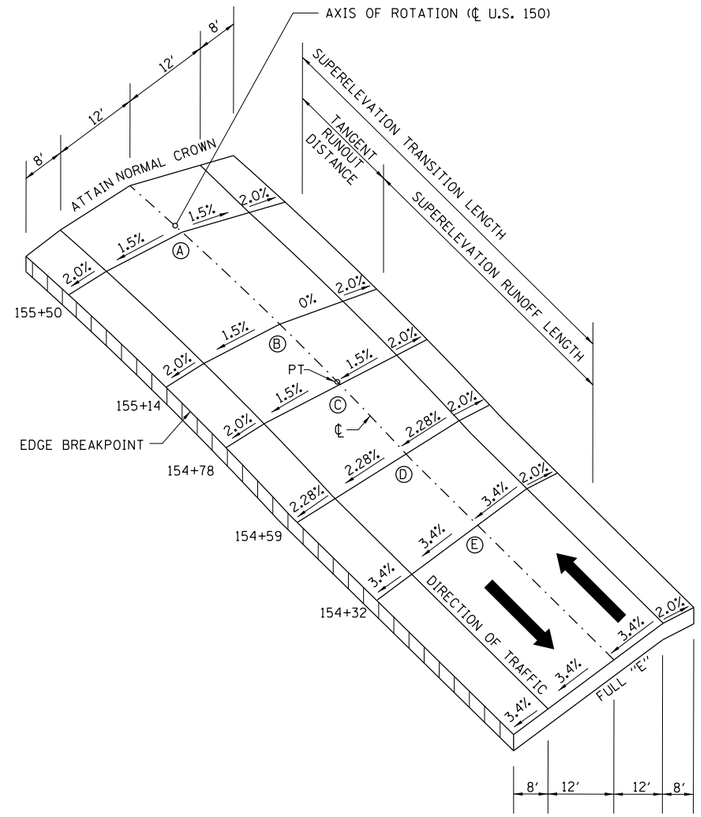
PAVEMENT MARKING & SIGN PLAN
U.S. 150 AND I-57

SCALE: 1'' = 50' | SHEET OF SHEETS | STA. 149+00.00 TO STA. 165+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	109
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



E=DESIGN SUPERELEVATION RATE



USE TO ATTAIN PROPOSED SUPERELEVATION FROM EXISTING SUPERELEVATION

USE TO REMOVE SUPERELEVATION

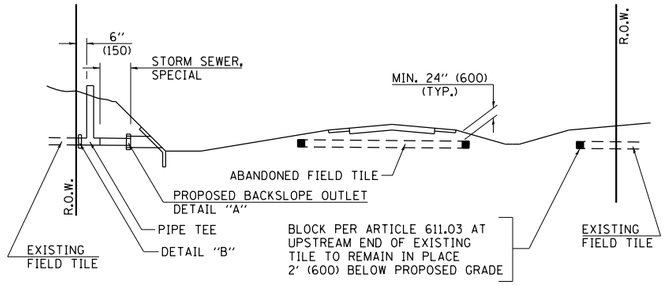
PROPOSED SUPERELEVATION TRANSITION DETAIL FOR U.S. 150 (BLOOMINGTON RD.)

THE SUPERELEVATION TRANSITION HAS BEEN SHIFTED IN RESPECT TO THE PT STATION TO KEEP THE TRANSITION FROM REACHING THE BRIDGE DECK.

2 LANE SECTION						
CURVE NAME	FULL SUPER RATE "E"	STA. A	STA. B	STA. C	STA. D	STA. E
CURVE US150_6						
ATTAIN	3.40%			151+25		151+97
REMOVE	3.40%	155+50	155+14	154+78	154+59	154+32

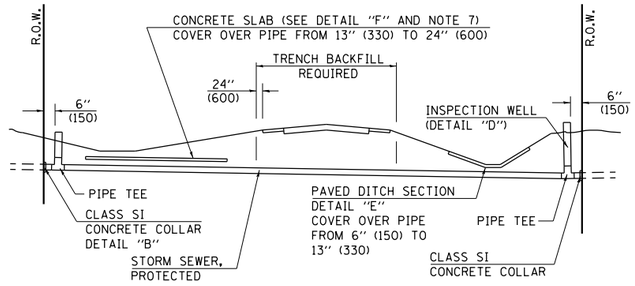
NOTE: ROUND ALL EDGE BREAKPOINTS IN FIELD.

FILE NAME = D570898-sht-details.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERELEVATION DETAIL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - CWW	REVISED -					57	(10-34HB)BR-1	CHAMPAIGN	147	110
	PLOT SCALE = 40.0000 ' / in.	CHECKED - BJE	REVISED -							CONTRACT NO. 70B98		
Default	PLOT DATE = 5/6/2019 - 2:56:29 PM	DATE - 04/16/2019	REVISED -		SCALE: N.T.S.	SHEET OF SHEETS	STA. TO STA.			ILLINOIS FED. AID PROJECT		



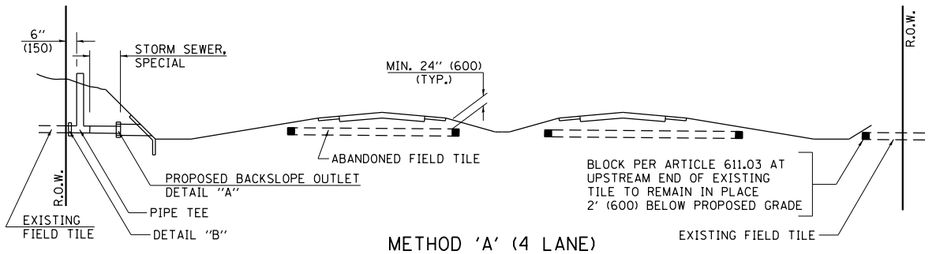
METHOD 'A' (2 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



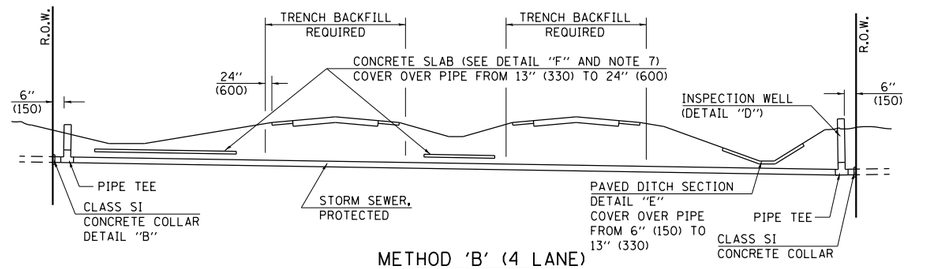
METHOD 'B' (2 LANE)

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



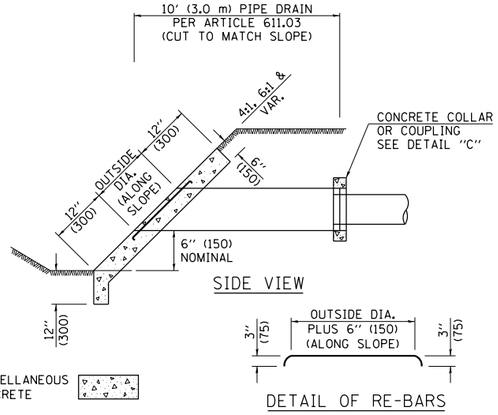
METHOD 'A' (4 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

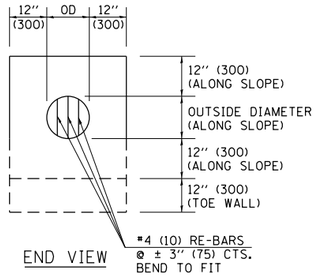


METHOD 'B' (4 LANE)

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES

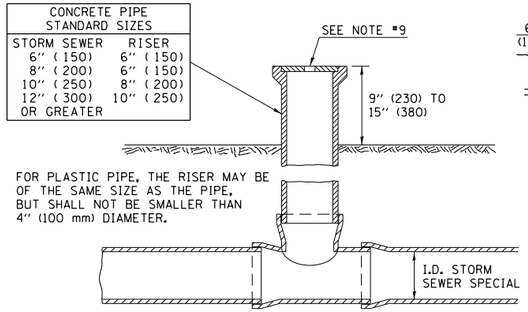


DETAIL OF RE-BARS



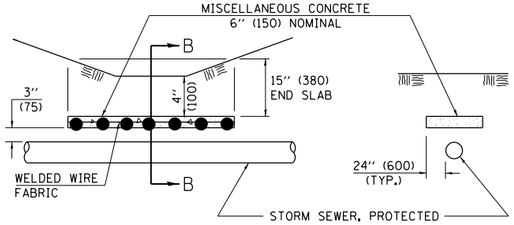
END VIEW

CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300) OR GREATER	10" (250)



INSPECTION WELL

DETAIL "D"

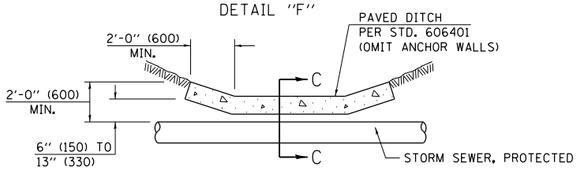


SLAB ELEVATION

SECTION B-B

CONCRETE SLAB

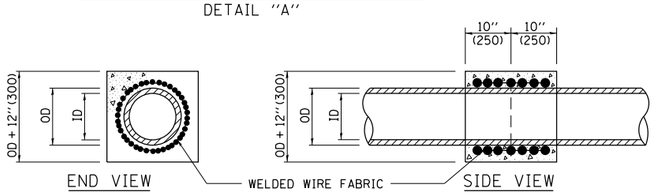
DETAIL "F"



PAVED DITCH ELEVATION

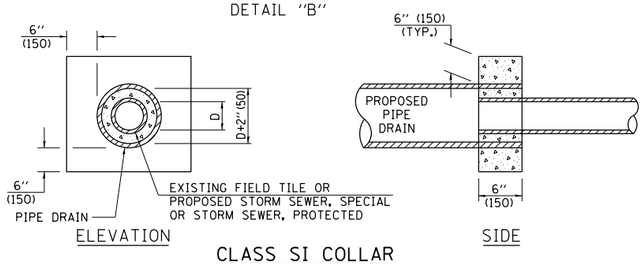
HEADWALL FOR BACKSLOPE OUTLET

DETAIL "A"



CONCRETE COLLAR

DETAIL "B"

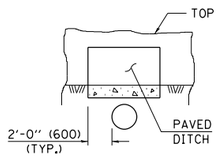


CLASS SI COLLAR

DETAIL "C"

GENERAL NOTES

1. EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
2. ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
3. INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
4. EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
5. NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
6. THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
7. ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
8. HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
9. THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



SECTION C-C

PAVED DITCH

DETAIL "E"

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

DISTRICT 5 DETAIL NO. 61101011A

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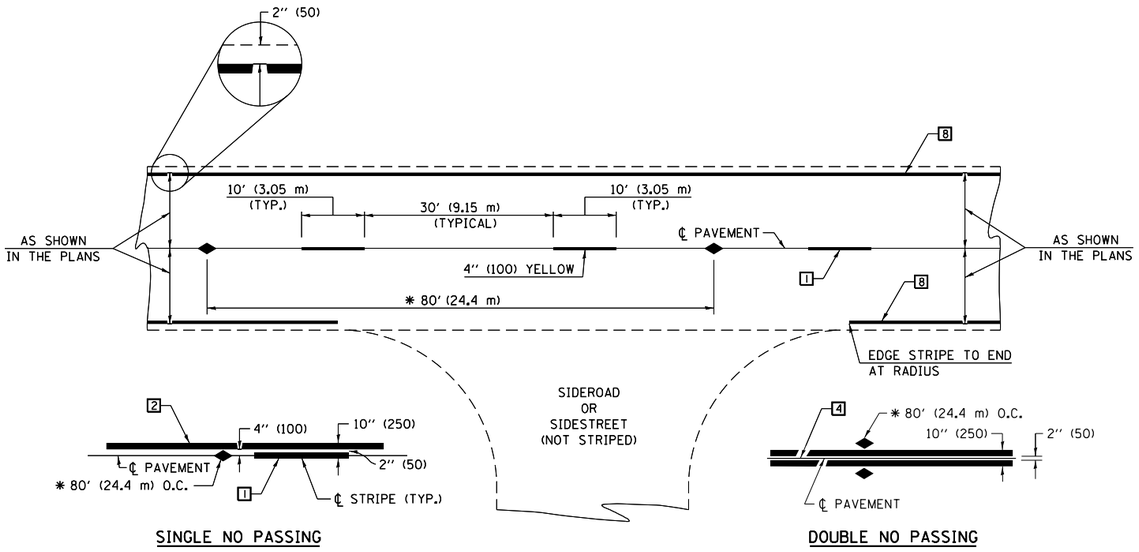
	PLOT DATE = 5/6/2019 - 2:56:29 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIELD TILE SYSTEMS (TREATMENT OF EXISTING)

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	111
		CONTRACT NO. 70B98		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SINGLE NO PASSING

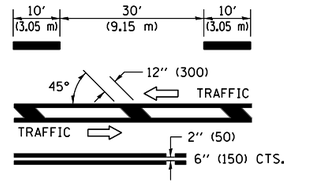
DOUBLE NO PASSING

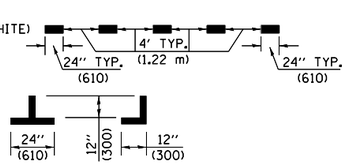
* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

TWO LANE/TWO WAY

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. RESERVED
6. RESERVED
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. 4" (100) LANE LINE EXTENSIONS (WHITE)
14. 4" (100) PARKING WHITE

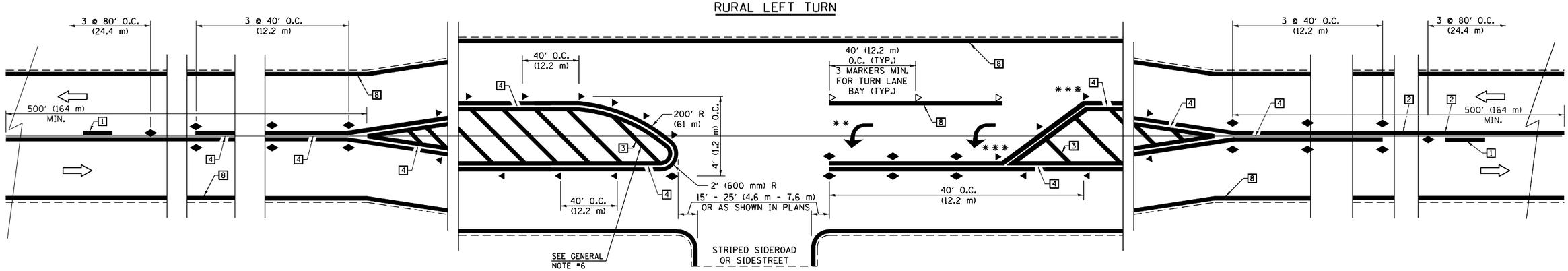




TYPICAL PAVEMENT MARKERS LEGEND

- TWO-WAY AMBER MARKER
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER

RURAL LEFT TURN



*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

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

DISTRICT 5 DETAIL NO. 7800AAAA

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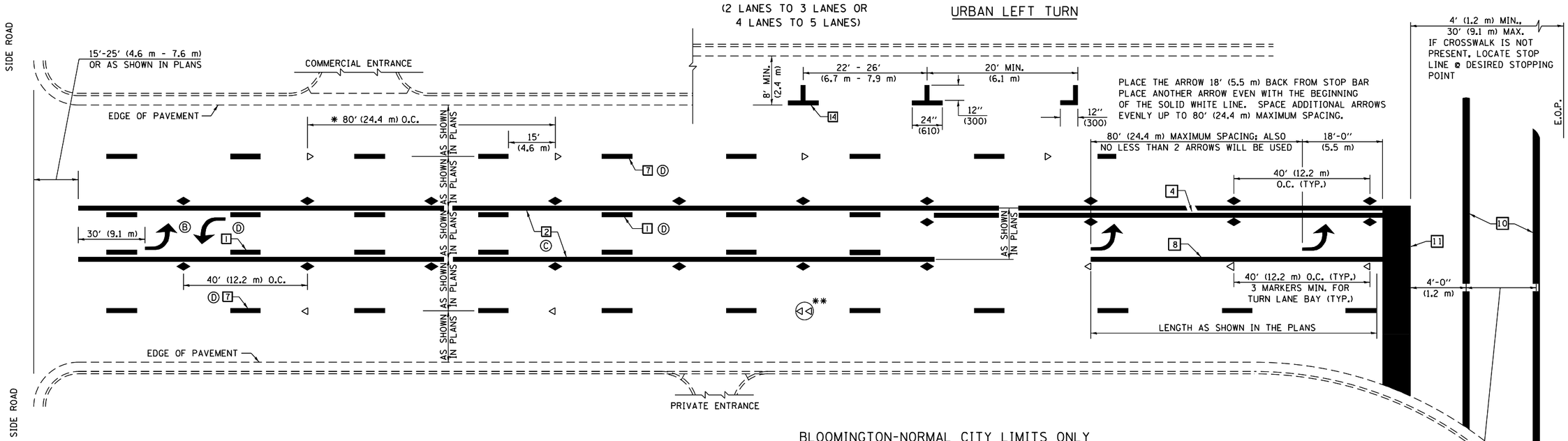
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

SCALE: N.T.S. | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	112
		CONTRACT NO. 70B98		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

URBAN LEFT TURN



* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

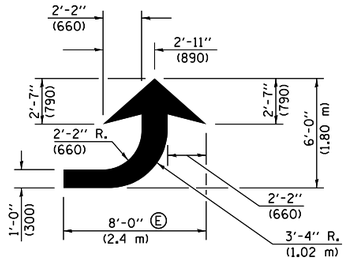
GENERAL NOTES:

Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.

Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.

Ⓓ THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.

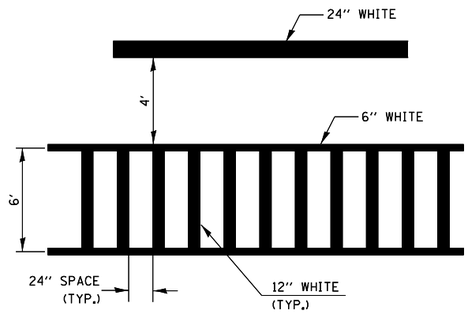
Ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



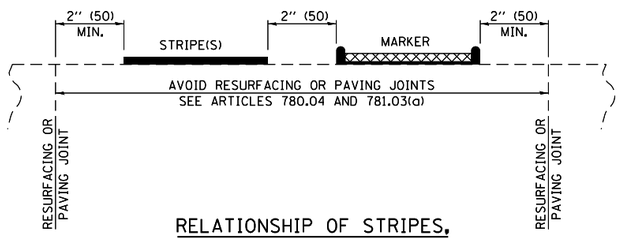
LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m^2)
(WHITE)

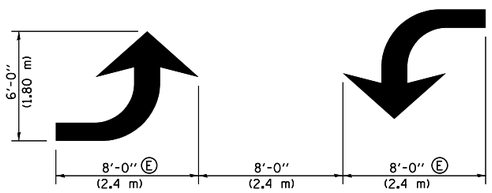
BLOOMINGTON-NORMAL CITY LIMITS ONLY



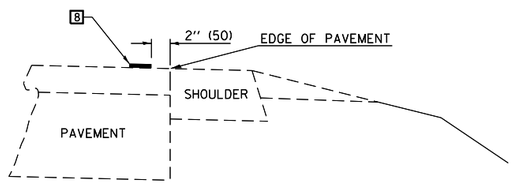
TYPICAL SPACING FOR
CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES,
MARKERS AND JOINTS



TYPICAL DOUBLE
TURN ARROWS (WHITE)



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT

(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04

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

DISTRICT 5 DETAIL NO. 7800AAAA

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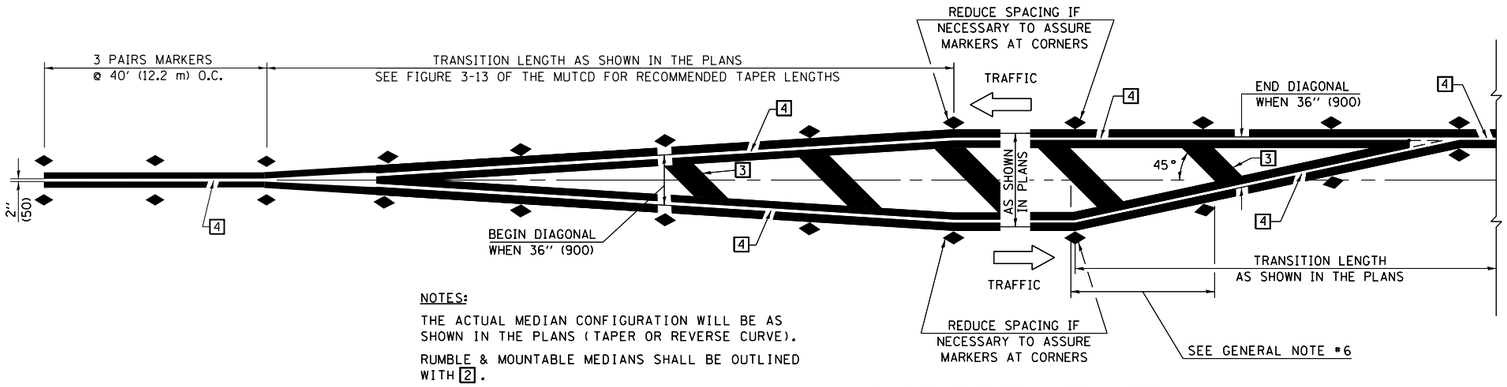
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: N.T.S. | SHEET NO. 2 OF 4 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	113
		CONTRACT NO. 70B98		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

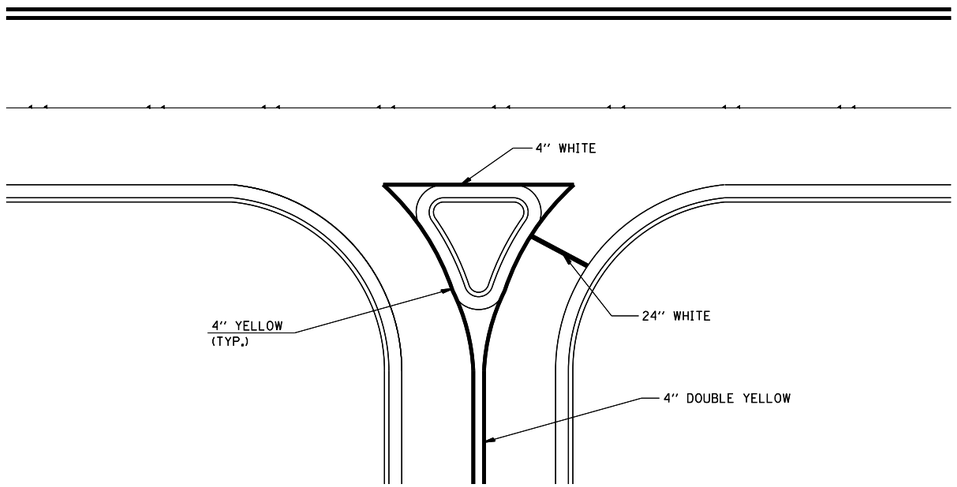
THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE).

RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH [2].

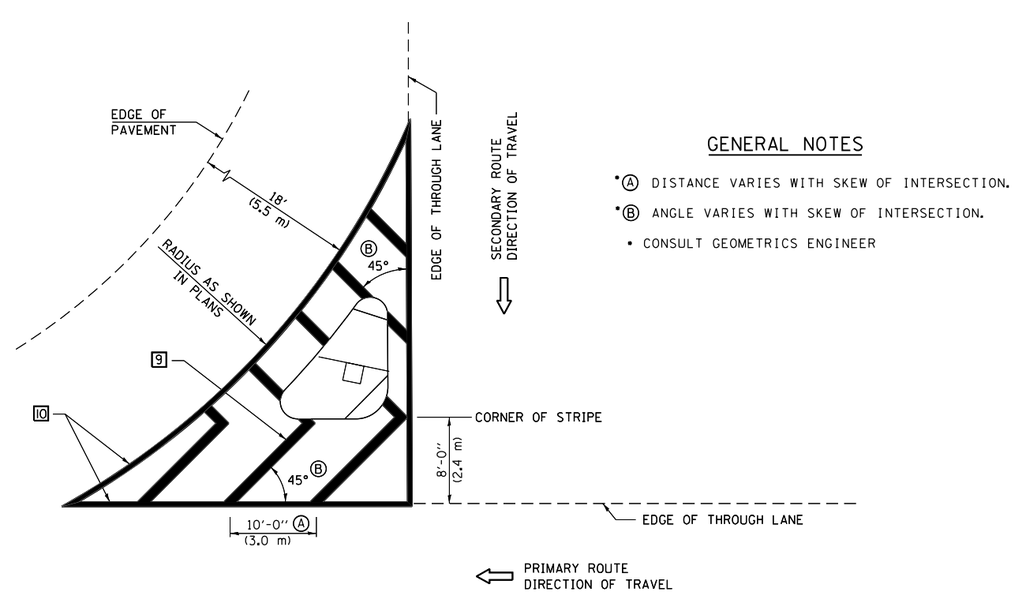
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
   < 30 MPH USE 15' (< 50 km/h USE 4.5 m)
   30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
   >45 MPH USE 30' (>75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



GENERAL NOTES

*Ⓐ DISTANCE VARIES WITH SKEW OF INTERSECTION.

*Ⓑ ANGLE VARIES WITH SKEW OF INTERSECTION.

• CONSULT GEOMETRICS ENGINEER

ISLAND

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

DISTRICT 5 DETAIL NO. 7800AAAA

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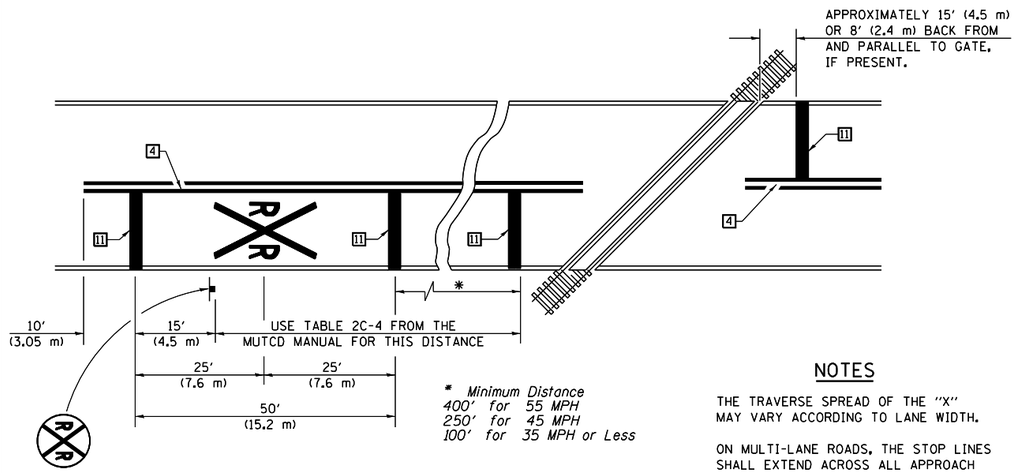
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

SCALE: N.T.S. | SHEET NO. 3 OF 4 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	114
		CONTRACT NO. 70B98		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING

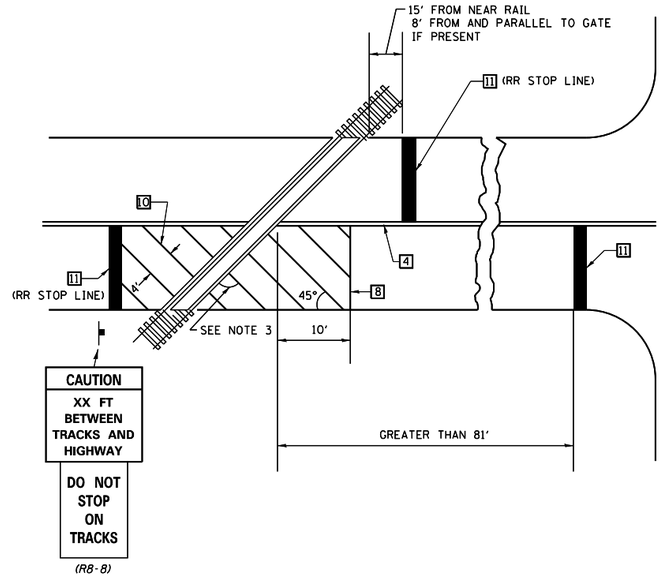
NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

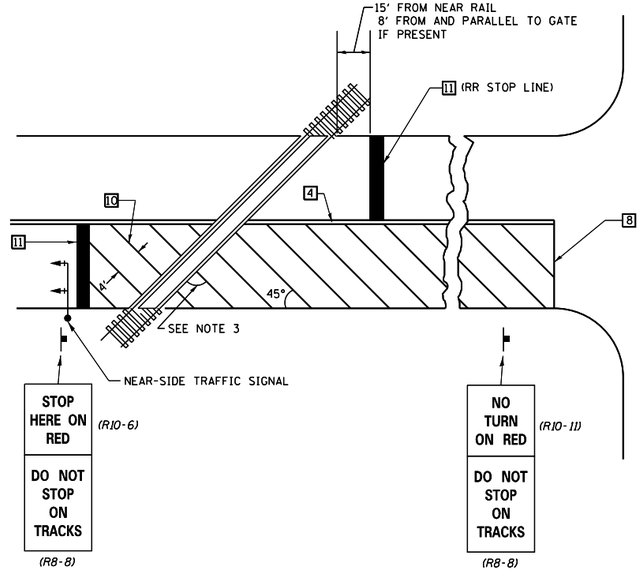
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

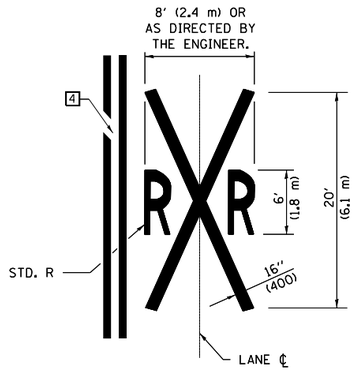
RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING



GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
3. WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

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

DISTRICT 5 DETAIL NO. 7800AAAA

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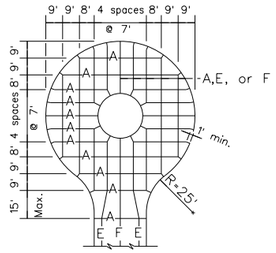
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

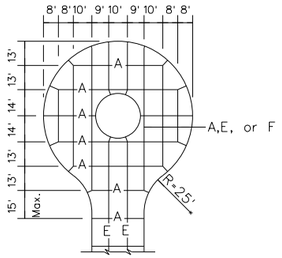
PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

SCALE: N.T.S. | SHEET NO. 4 OF 4 SHEETS | STA. | TO STA.

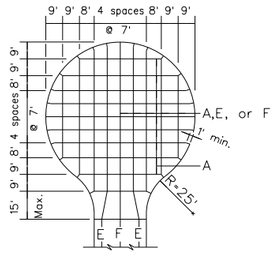
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	115
		CONTRACT NO. 70B98		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



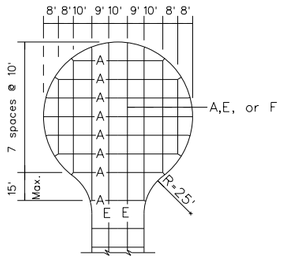
Open Center Cul De Sac
(4-panel wide street)



Open Center Cul De Sac
(3-panel wide street)

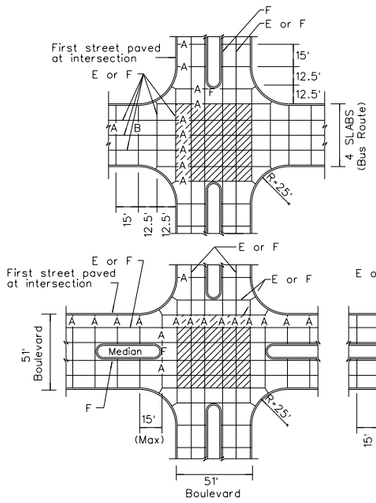


Fully-Paved Cul De Sac
(4-panel wide street)



Fully-Paved Cul De Sac
(3-panel wide street)

-See General Note 5.



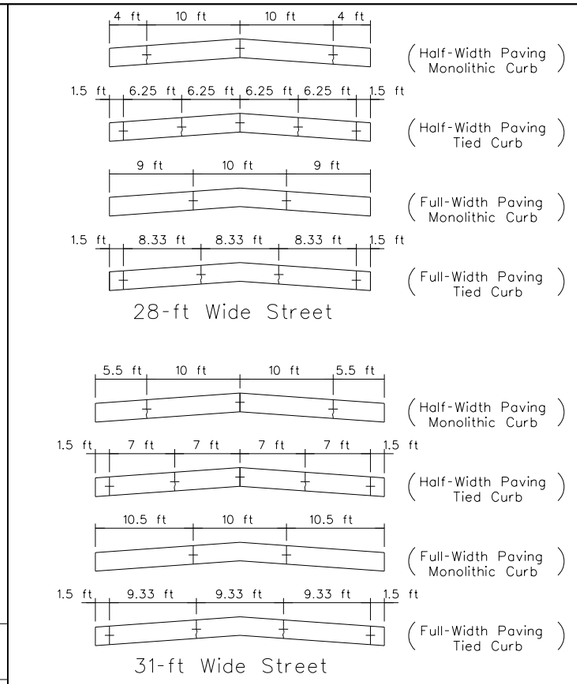
Boulevard Street Detail

PCC Pavement Details and Joint Layout.

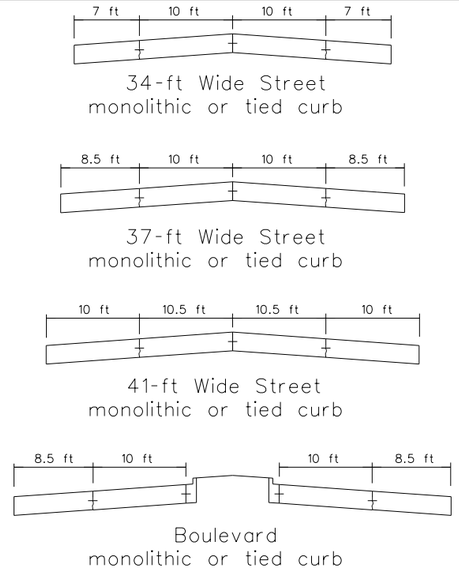
City of Champaign-Subdivision Streets

City of Champaign

Sheet 2 of 6



Note: 1. Shown dimensions represent back-of-curb to back-of-curb pavement widths.

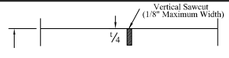


Longitudinal Joint Spacing

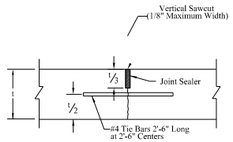
City of Champaign-Subdivision Streets

City of Champaign

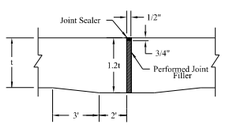
Sheet 4 Of 6



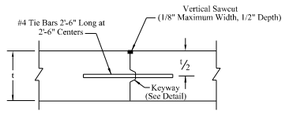
Type A
Sawed Transverse Joint

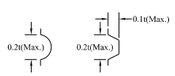


Type E
Sawed Longitudinal Joint

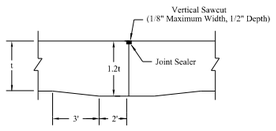


Type B
Thickened-Edge Transverse Isolation Joint



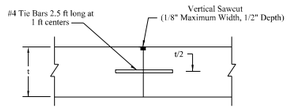


Keyway Detail

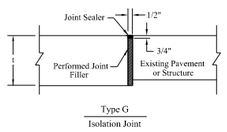


Type C
Thickened-Edge Transverse Construction Joint
(At Planned Joint Location)

Type F
Longidutinal Construction Joint



Type D
Transverse Construction Joint
(At Other Than Planned Joint Location)



Type G
Isolation Joint

General Notes

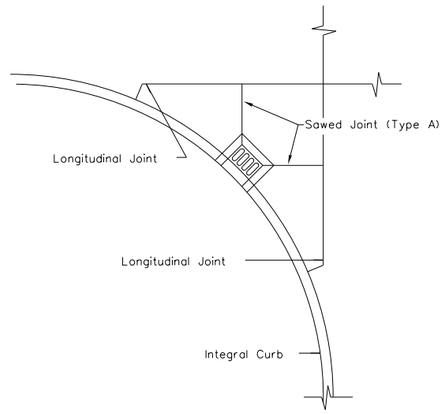
1. Pavement slabs with manhole castings within the pavement limits shall be jointed as shown in the details.
2. All transverse joints must be continuous across the pavement and extend through curbs, except tied transverse construction joints.
3. Transverse joint spacing shall not exceed 15 feet.
4. All joints must be sealed with joint sealer meeting the requirements of Section 750 of the Illinois Department of Transportation "Standard Specifications for Road and Bridge Construction."
5. The pavement thickness at the intersection of four-legged intersections shall be increased by 1 inch over that of the thickest adjacent pavement structure.

PCC Pavement Details and Joint Layout.

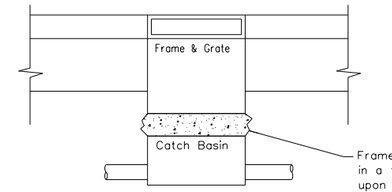
City of Champaign-Subdivision Streets

City of Champaign

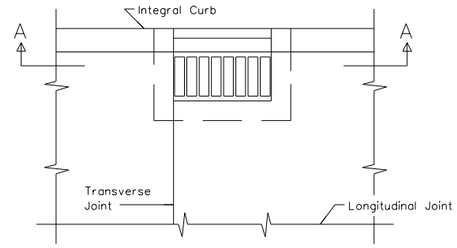
Sheet 3 of 6



Detail of Catch Basin Located
Along An Intersection Return Radius



Section A-A



Detail of Catch Basin Located
At A Transverse Joint

Note: 1. When a transverse joint falls short of a catch basin, shorten one or more slabs either side of the catch basin to permit a transverse joint to fall at one of the catch basin corners.
2. Longitudinal slab length shall not be less than 6 feet.

File: CB1.dwg

PCC Pavement Details and Joint Layout

City of Champaign-Subdivision Streets

City of Champaign

Sheet 6 of 6

FILE NAME = D570B98-sht-details.dgn	USER NAME = bemery	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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Default	PLOT DATE = 5/6/2019 - 2:56:31 PM	DATE -	REVISED -

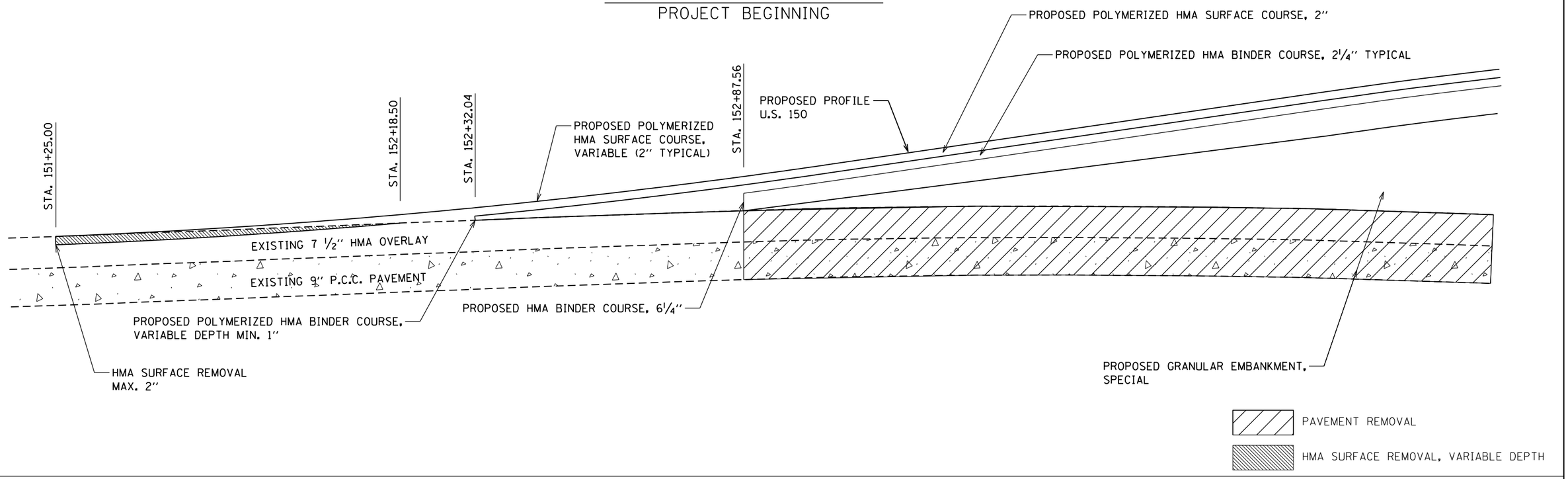
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHAMPAIGN
DETAILS

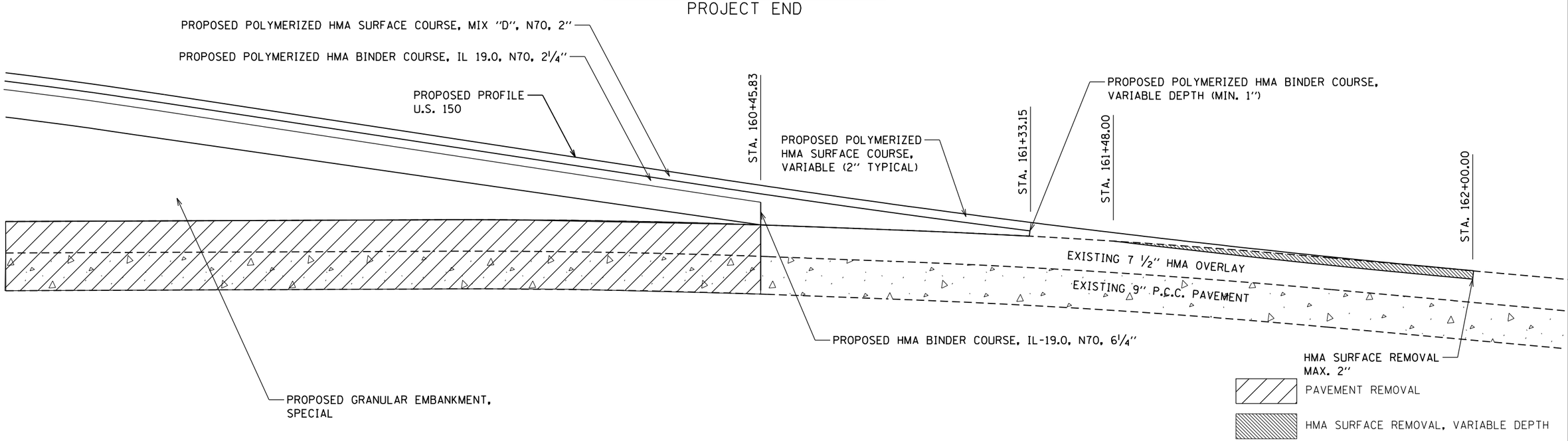
SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	116
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

PAVEMENT PROFILE TRANSITION
PROJECT BEGINNING



PAVEMENT PROFILE TRANSITION
PROJECT END



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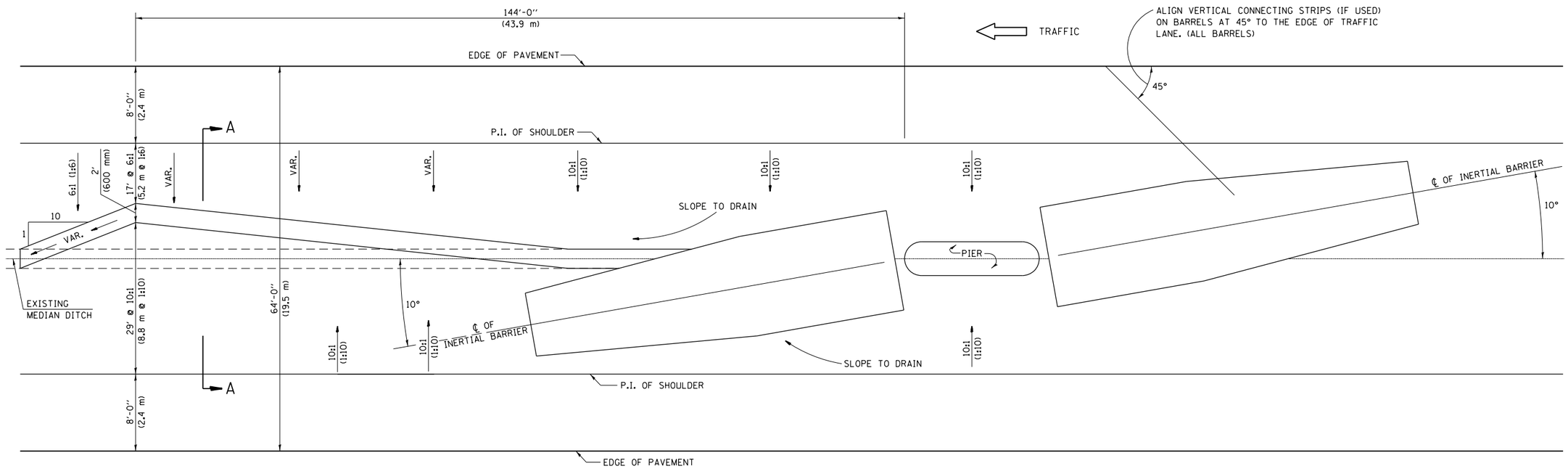
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

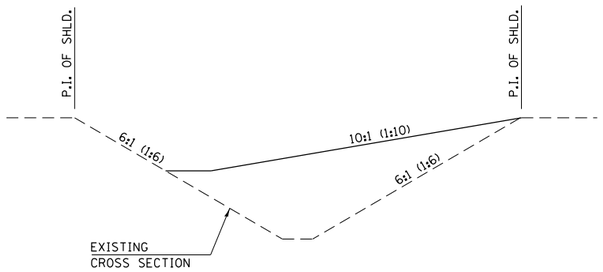
PAVEMENT PROFILE TRANSITIONS

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	117
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

DESIGN SPEED GREATER THAN 45 MPH (70 km/h) - 64' (19.5 m) MEDIAN





SECTION A-A
GRADING AND SHAPING DETAIL

GENERAL NOTES

1. ALL 10:1 (1:10) SLOPES SHOWN ON THIS DETAIL SHALL BE CONSTRUCTED 10:1 (1:10) OR FLATTER.
2. THE SLOPES AS SHOWN ON THIS DETAIL SHALL APPLY TO BOTH ENDS OF THE BRIDGE PIERS.
3. IN AREAS OF 10:1 (1:10) SLOPES PRECEDING THE ATTENUATOR IN THE MEDIAN INSTALLATION, FOUR OR MORE WOOD POSTS SHALL BE PLACED AT 5' (1.5 m) INTERVALS IN THE MEDIAN ℄. SEE SPECIAL PROVISIONS AND SCHEDULES.
4. SEE STANDARD 643001 FOR BASE DIMENSIONS AND SAND MODULE IMPACT ATTENUATOR ARRAY.

DESIGNER NOTE: SEE BDE PROCEDURE MEMORANDUM 34-06

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

DISTRICT 5 DETAIL NO. Z0030150C

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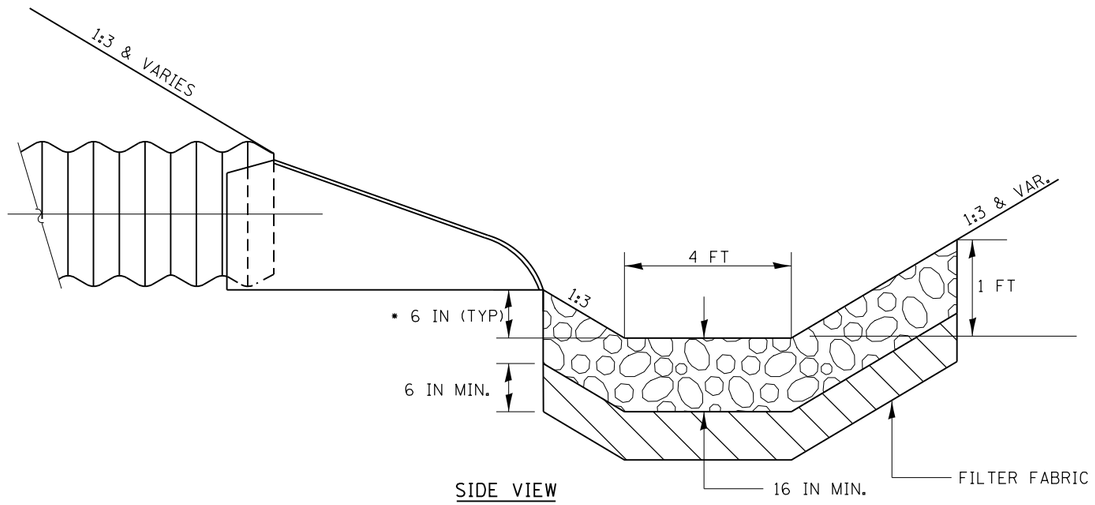
	PLOT DATE = 5/6/2019 - 2:56:32 PM	DATE -	REVISED - 3/7/17 SWN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

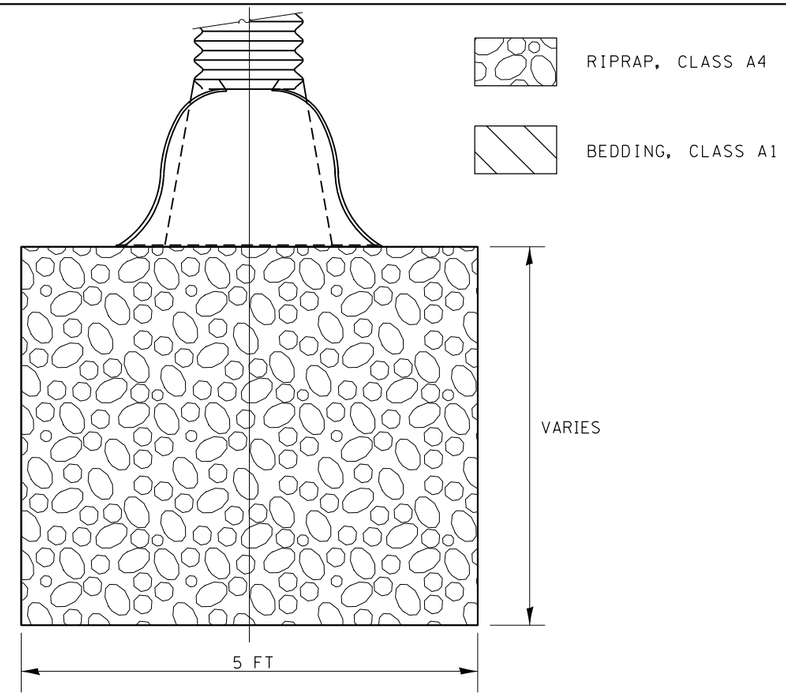
IMPACT ATTENUATORS (NON-REDIRECTIVE) TEST LEVEL 3

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	118
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



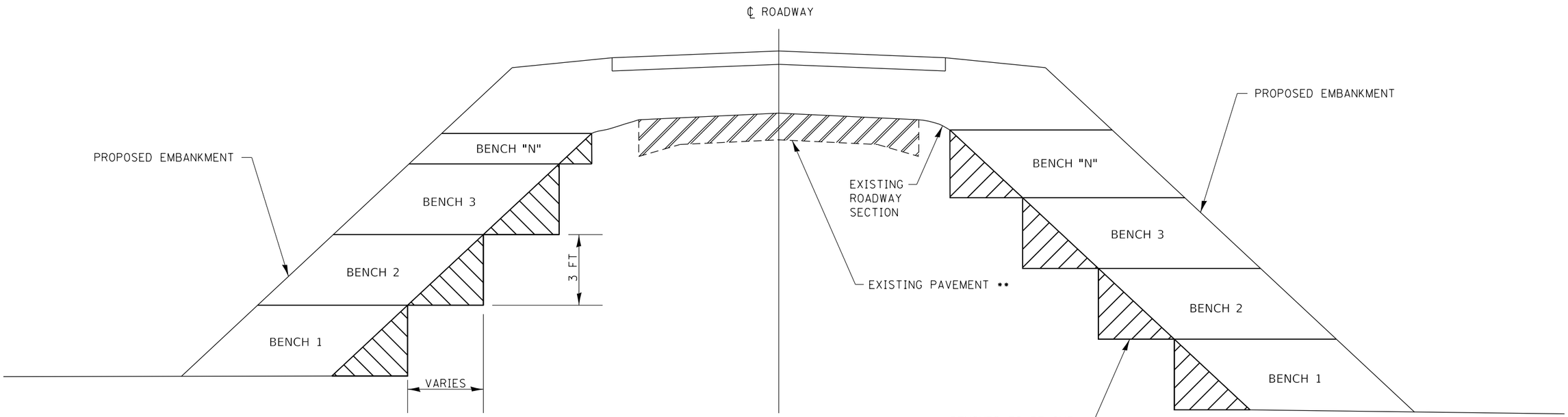
SIDE VIEW



PLAN VIEW

RIPRAP DETAIL

* SEE CROSS SECTIONS FOR EXACT ELEVATIONS.



SEE REMOVAL PLANS FOR PAVEMENT REMOVAL LIMITS.

EXISTING SLOPE BENCHING DETAIL

*BENCHES TO BE CUT PRIOR TO PLACEMENT OF EMBANKMENT LIFTS ON EACH BENCH.

NOTES:
* COST INCIDENTAL TO CONTRACT
** SEE REMOVAL PLANS FOR PAVEMENT REMOVAL LIMITS.

FILE NAME = D570898-sht-details.dgn	USER NAME = bemery	DESIGNED - BJE	REVISED -
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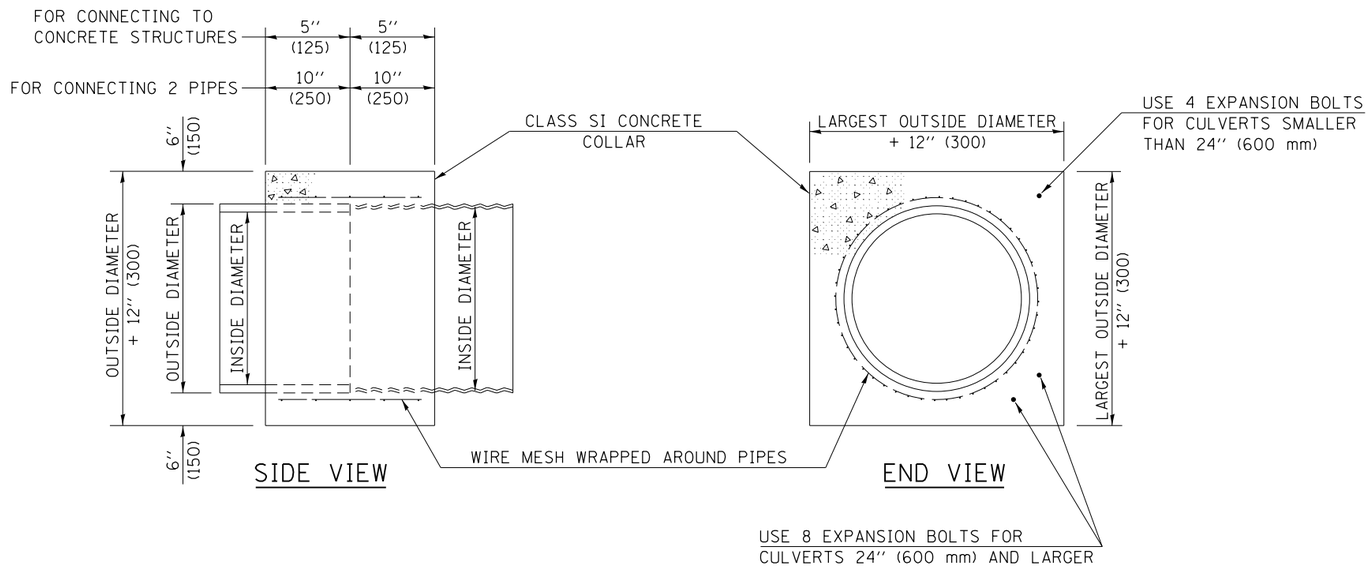
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SLOPE BENCHING AND RIPRAP DETAIL

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	119
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



QUANTITIES FOR CONCRETE PIPES	
INSIDE DIAMETER OF PIPE INCH (mm)	ESTIMATED CLASS SI CONCRETE REQUIRED 20'' (500 mm) WIDTH CU. YD. (m^3)
4'' (100)	0.14 (0.11)
6'' (150)	0.16 (0.12)
8'' (200)	0.19 (0.14)
10'' (250)	0.22 (0.17)
12'' (300)	0.25 (0.19)
15'' (375)	0.30 (0.23)
18'' (450)	0.35 (0.27)
24'' (600)	0.45 (0.35)
30'' (750)	0.57 (0.43)
36'' (900)	0.69 (0.53)
42'' (1050)	0.83 (0.63)
48'' (1200)	0.97 (0.74)
54'' (1350)	1.12 (0.86)
60'' (1500)	1.28 (0.98)

QUANTITIES FOR METAL PIPES	
INSIDE DIAMETER OF PIPE INCH (mm)	ESTIMATED CLASS SI CONCRETE REQUIRED 20'' (500 mm) WIDTH CU. YD. (m^3)
4'' (100)	0.12 (0.09)
6'' (150)	0.14 (0.11)
8'' (200)	0.16 (0.12)
10'' (250)	0.19 (0.14)
12'' (300)	0.21 (0.16)
15'' (375)	0.25 (0.19)
18'' (450)	0.29 (0.22)
24'' (600)	0.38 (0.29)
30'' (750)	0.47 (0.36)
36'' (900)	0.59 (0.45)
42'' (1050)	0.69 (0.53)
48'' (1200)	0.81 (0.62)
54'' (1350)	0.93 (0.71)
60'' (1500)	1.05 (0.81)

GENERAL NOTES

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIAMETERS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIAMETER (SEE END VIEW).
3. THE WIRE MESH SHALL WEIGH NOT LESS THAN 54#/100 SQ. FT. (2.63 kg/m^2).
4. WHEN CONCRETE COLLARS ARE CONSTRUCTED ADJACENT TO AN EXISTING CONCRETE STRUCTURE (HEADWALLS, ETC.) EXPANSION BOLTS, SHALL BE USED AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, FOR EXPANSION BOLTS OF THE SIZE SPECIFIED IN THE PLANS.
5. CONCRETE COLLARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, PER CUBIC YARD (CUBIC METER), FOR CONCRETE COLLARS INCLUDING ALL MATERIAL AND LABOR SPECIFIED TO COMPLETE THE WORK IN PLACE.

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

DISTRICT 5 DETAIL NO. 54248510

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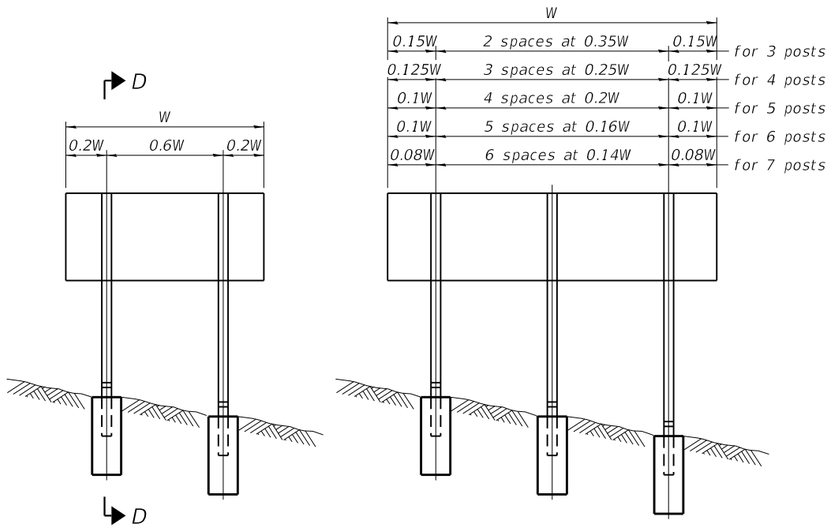
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE COLLAR

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	120
		CONTRACT NO. 70B98		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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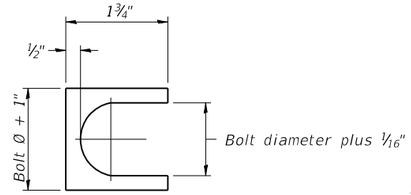
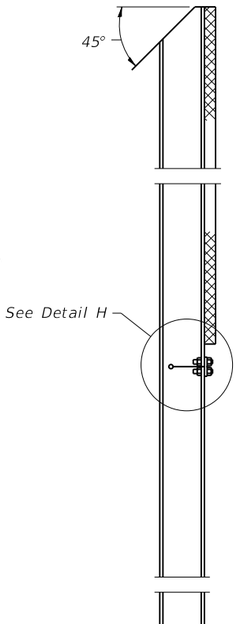
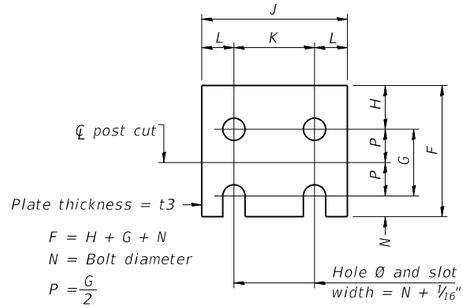


SHIM DETAIL

Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.

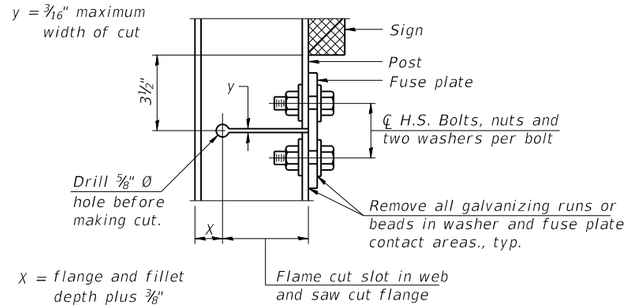




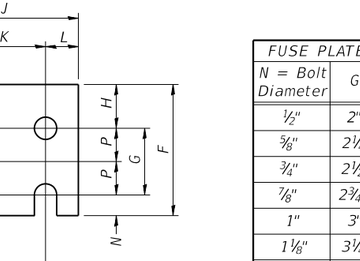
FUSE PLATE DETAIL

(Install with notches down.)

FUSE PLATE DATA		
N = Bolt Diameter	G	H
½"	2"	1⅛"
⅝"	2¼"	1¼"
¾"	2½"	1⅜"
⅞"	2¾"	1½"
1"	3"	1⅝"
1⅛"	3¼"	1¾"
1¼"	3½"	1⅞"

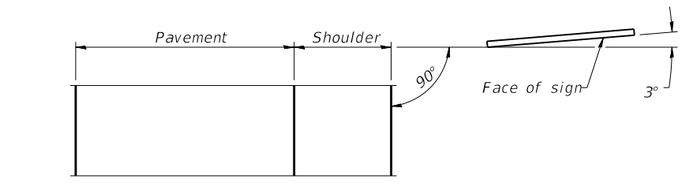


DETAIL H

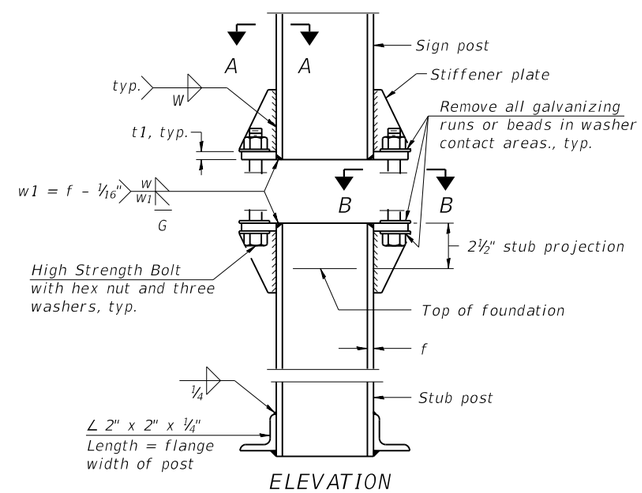


STIFFENER PLATE DETAIL

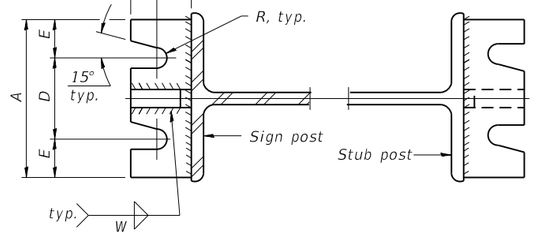
Diameter



LOCATION SKETCH

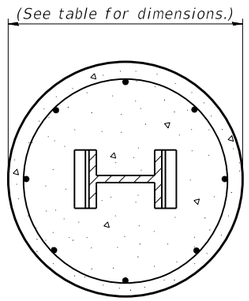


ELEVATION
SIGN POST & STUB POST

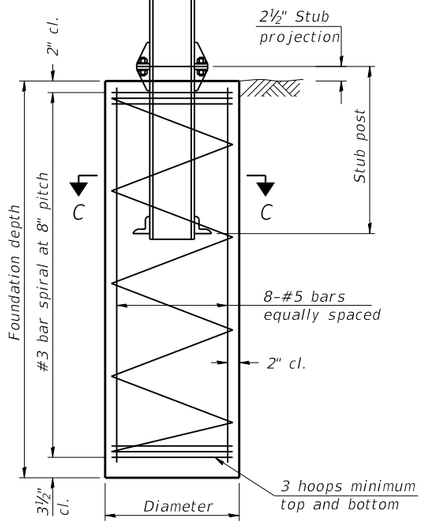


SECTION A-A

SECTION B-B



SECTION C-C



SECTION D-D

GENERAL NOTES

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:
Structural steel - 20,000 p.s.i.
Reinforcing steel - 20,000 p.s.i.
Concrete - 1,400 p.s.i.
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1 2-17-2017

(Sheet 1 of 2)

FILE NAME = D570898-sht-Details-Signs.dgn	USER NAME = bemery	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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Default	PLOT DATE = 5/6/2019 - 2:56:55 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS

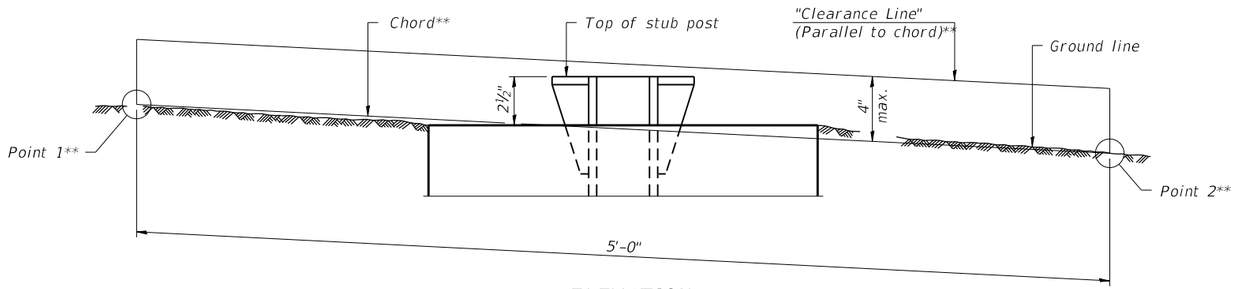
SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	121
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
	Foundation			Reinforcement				Stub Post														
	Diameter	* Minimum Depth	Concrete (1) cu. yds.)	Vertical Bars Length	Bar Spirals Diameter	Bar Spirals Length	lbs. (2)	Length	Bolt Size	A	B	C	D	E	t1	t2	R	W	J	K	L	t3
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-3"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	4"	2¼"	⅞"	¼"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	⅝" x 3¼"	6"	2¼"	1¼"	3½"	1¼"	¾"	½"	11/32"	¼"	6"	3½"	1¼"	⅜"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8½"	79'-0"	78	2'-6"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¼"	2¾"	1¼"	⅜"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2½"	105'-0"	92	3'-0"	¾" x 3¾"	6"	2½"	1⅜"	3¼"	1⅜"	1"	½"	13/32"	5/16"	5¾"	2¾"	1½"	½"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2½"	112'-0"	98	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	5¾"	2¾"	1½"	⅝"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2½"	119'-0"	107	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6½"	3½"	1½"	⅝"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8½"	145'-0"	113	3'-0"	⅞" x 4"	7"	2¾"	1½"	4"	1½"	1"	¾"	15/32"	⅜"	6¾"	3½"	1⅝"	½"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8½"	153'-0"	122	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	6¾"	3½"	1⅝"	½"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8½"	162'-0"	130	3'-6"	1" x 4½"	7½"	3"	1¾"	4"	1¾"	1¼"	¾"	17/32"	⅜"	7"	3½"	1¾"	½"

*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE Sign Height																			
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"
W6x9	½" x 1½"	½" x 1½"	½" x 1½"	½" x 1½"	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——	——
W6x15	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	——	——	——	——	——	——	——	——	——	——	——	——
W8x18	½" x 1¾"	½" x 1¾"	½" x 1¾"	½" x 1¾"	⅝" x 2"	⅝" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	¾" x 2"	——	——	——	——	——	——	——	——	——	——	——
W10x22	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	——	——	——	——	——	——	——	——
W10x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	——	——	——	——	——	——	——
W12x26	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	——	——	——	——	——	——
W14x30	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2"	⅝" x 2"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	¾" x 2¼"	——	——	——	——
W14x38	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"
W16x45	——	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	½" x 2"	⅝" x 2¼"	⅝" x 2¼"	⅝" x 2¼"	¾" x 2½"	¾" x 2½"	⅞" x 2½"	⅞" x 2½"	⅞" x 2½"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"	1" x 2¾"



ELEVATION
GROUND LINE & STUB POST

** For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

(1) Quantity includes all concrete necessary for one foundation.

(2) Includes reinforcement bars and spiral hooping for one foundation.

BAW-A-2 2-17-2017

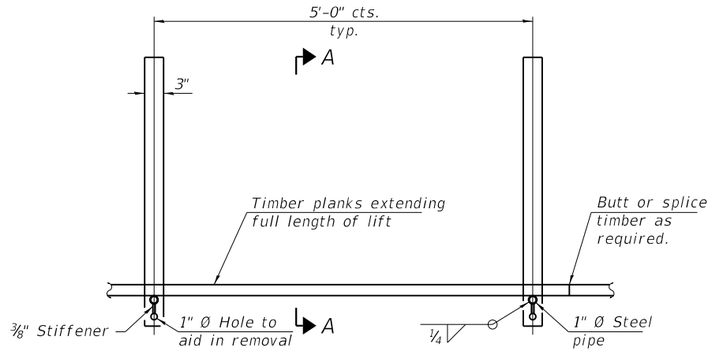
FILE NAME = D570B98-sht-Details-Signs.dgn	USER NAME = bemery	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:56:55 PM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

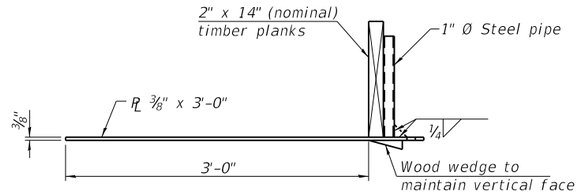
BREAK-AWAY WIDE FLANGE
STEEL SIGN POST TABLES

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	122
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



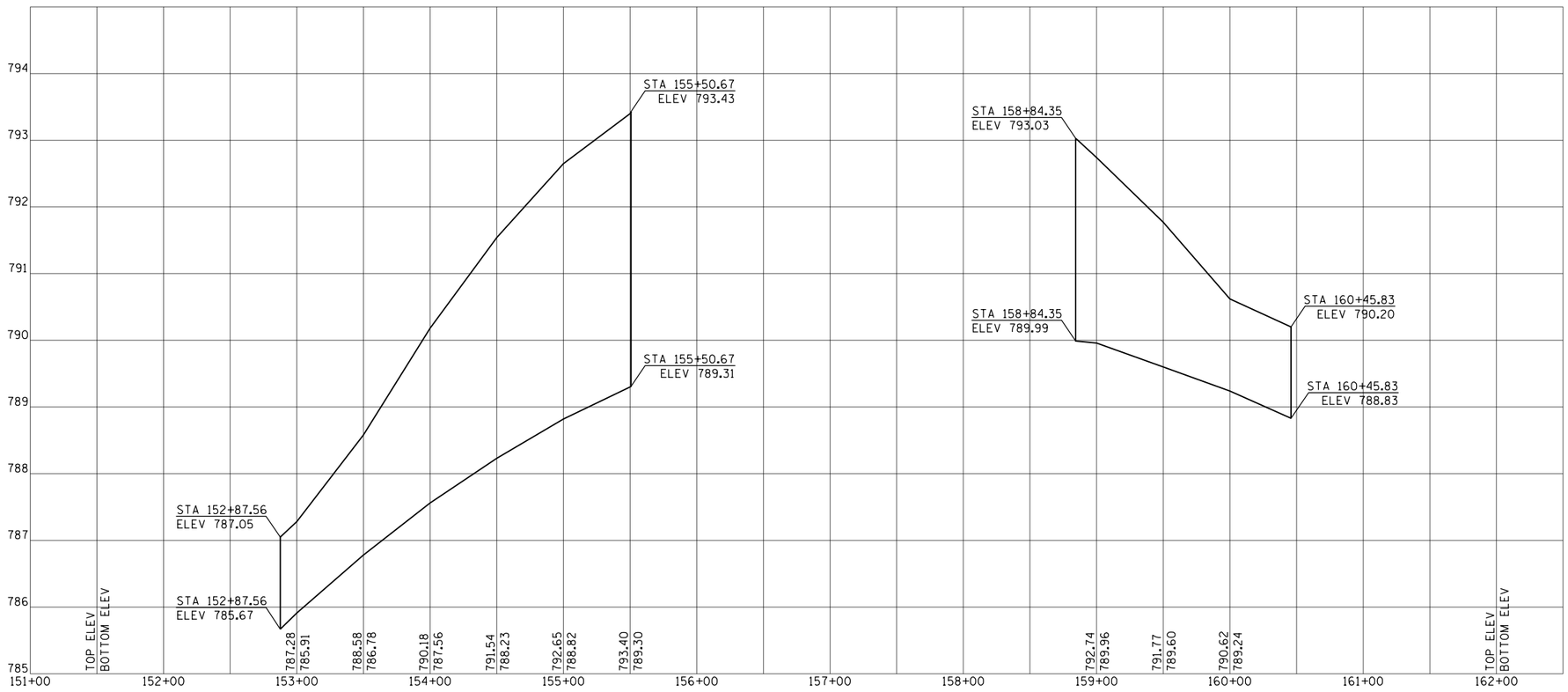
PLAN



SECTION A-A

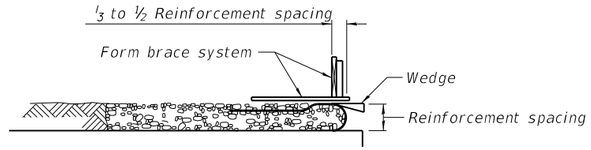
GEOTEXTILE FORM BRACE DETAIL

Note:
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.

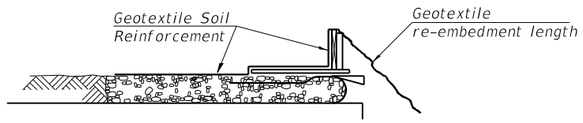


GEOTEXTILE WALL PROFILE

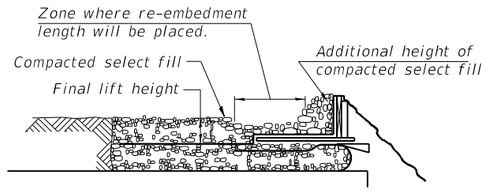
FILE NAME = D570898-sht-Details-Wall.dgn	USER NAME = bemery	DESIGNED - BJE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GEOTEXTILE RETAINING WALL DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BJE	REVISED -			57	(10-34HB)BR-1	CHAMPAIGN	147	123
	PLOT SCALE = 2.0000 ' / in.	CHECKED - MKK	REVISED -					CONTRACT NO. 70B98		
Default	PLOT DATE = 5/6/2019 - 2:57:17 PM	DATE - 04/16/2019	REVISED -		SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



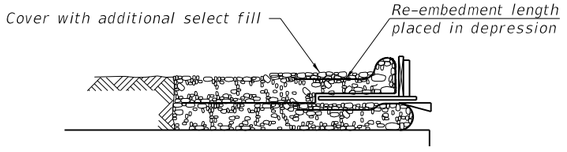
1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of 1/3 to 1/2 the geotextile reinforcement spacing.



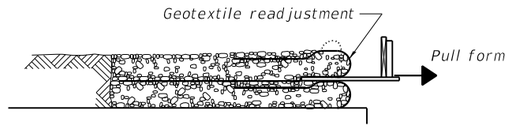
2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.



3. Compact select fill material in lifts to final lift height, create (±3") depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.



4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill (±3") to embed geotextile and bring to final lift height.

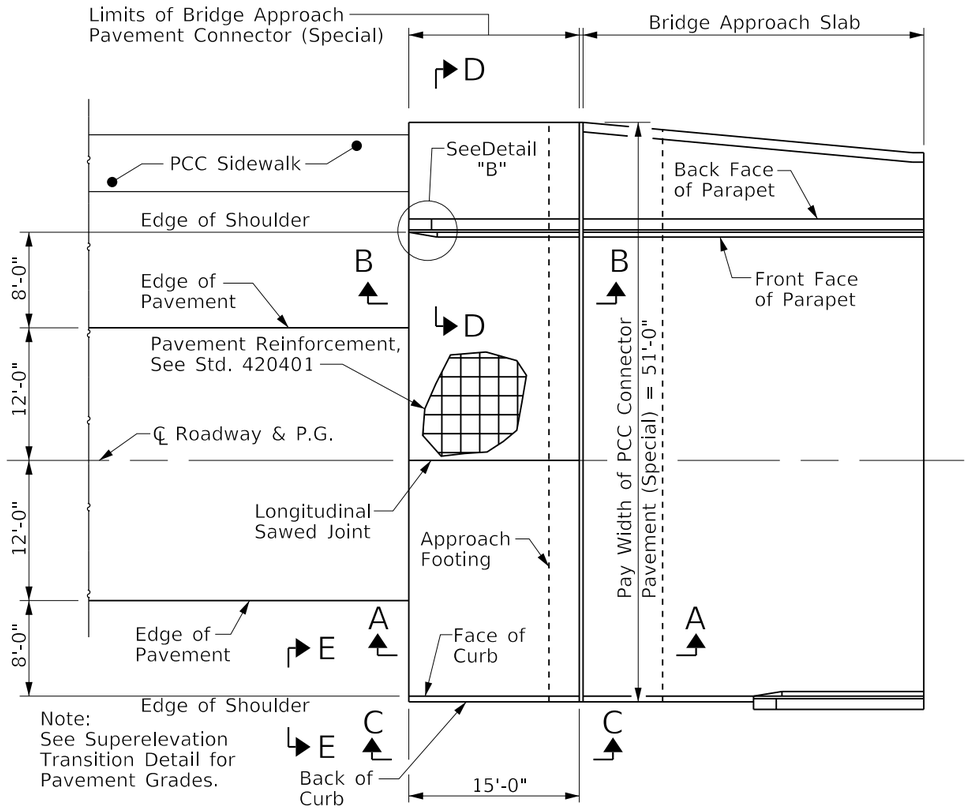


5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

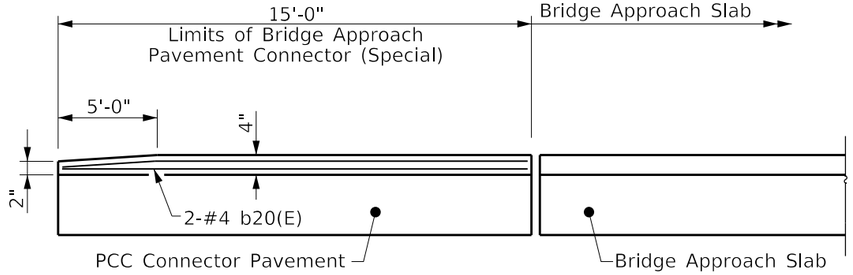
GEOTEXTILE WALL CONSTRUCTION SEQUENCE

Note:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.

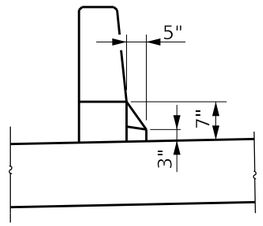
FILE NAME = D570898-sht-Details-Wall.dgn	USER NAME = bemery	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GEOTEXTILE RETAINING WALL DETAILS			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					57	(10-34HB)BR-1	CHAMPAIGN	147	124
	PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -							CONTRACT NO. 70B98		
Default	PLOT DATE = 5/6/2019 - 2:57:17 PM	DATE -	REVISED -		SCALE: N.T.S.	SHEET OF SHEETS	STA. TO STA.			ILLINOIS FED. AID PROJECT		



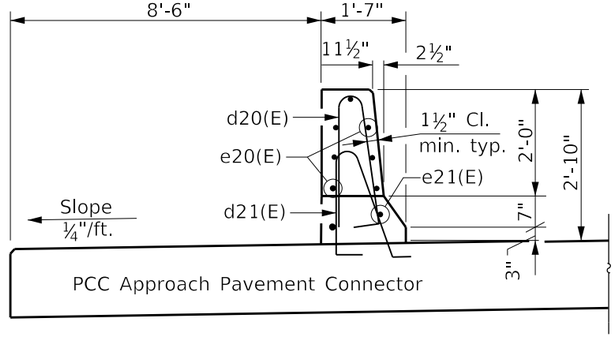
PLAN
(West Approach)



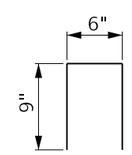
SECTION C-C



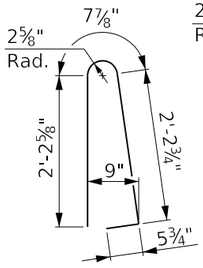
DETAIL "B"
(Taper in 2'-6")



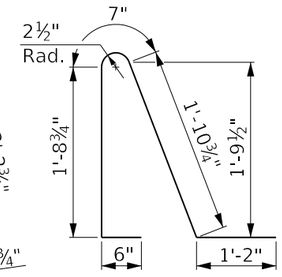
SECTION D-D



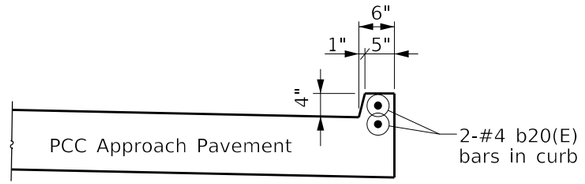
BAR d22(E)



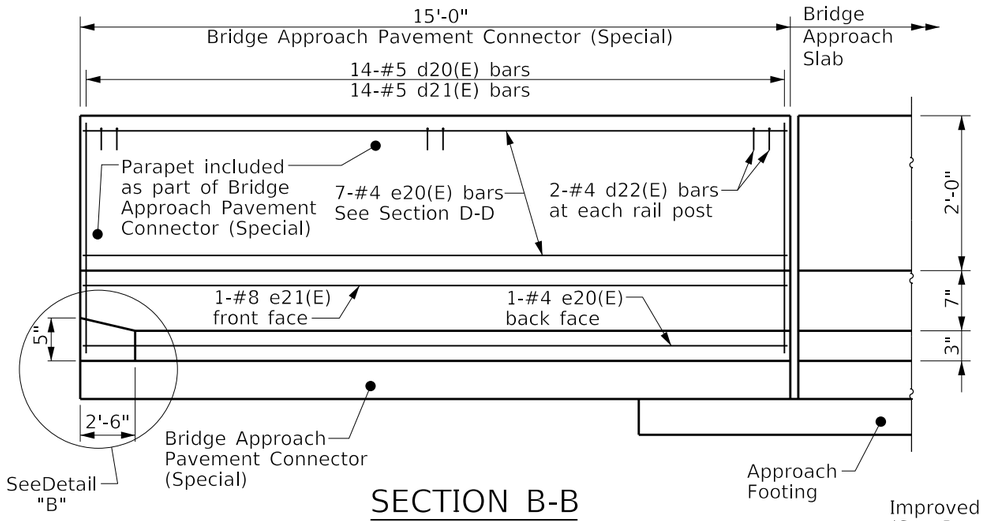
BAR d20(E)



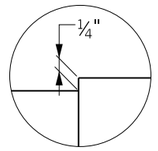
BAR d21(E)



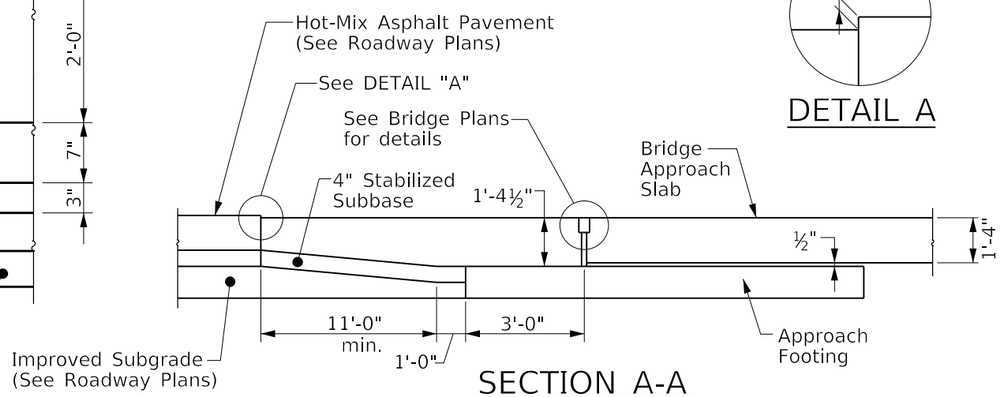
SECTION E-E



SECTION B-B



DETAIL A



SECTION A-A

PARAPET BAR LIST
(For Information Only)

Bar	No.	Size	Length	Shape
b20(E)	2	#4	14'-8"	
d20(E)	14	#5	5'-7"	
d21(E)	14	#5	5'-11"	
d22(E)	6	#4	2'-0"	
e20(E)	8	#4	14'-8"	
e21(E)	1	#8	14'-8"	
Concrete Superstructure			Cu. Yd.	2.1
Protective Coat			Sq. Yd.	95
Reinforcement Bars Epoxy Coated			Lb.	310

GENERAL NOTES

See Standard 421001 for reinforcement details not shown.
See Standard 420001 for joint details not shown.
See Structure plans for details at bridge approach, approach footing and preformed joint seal.

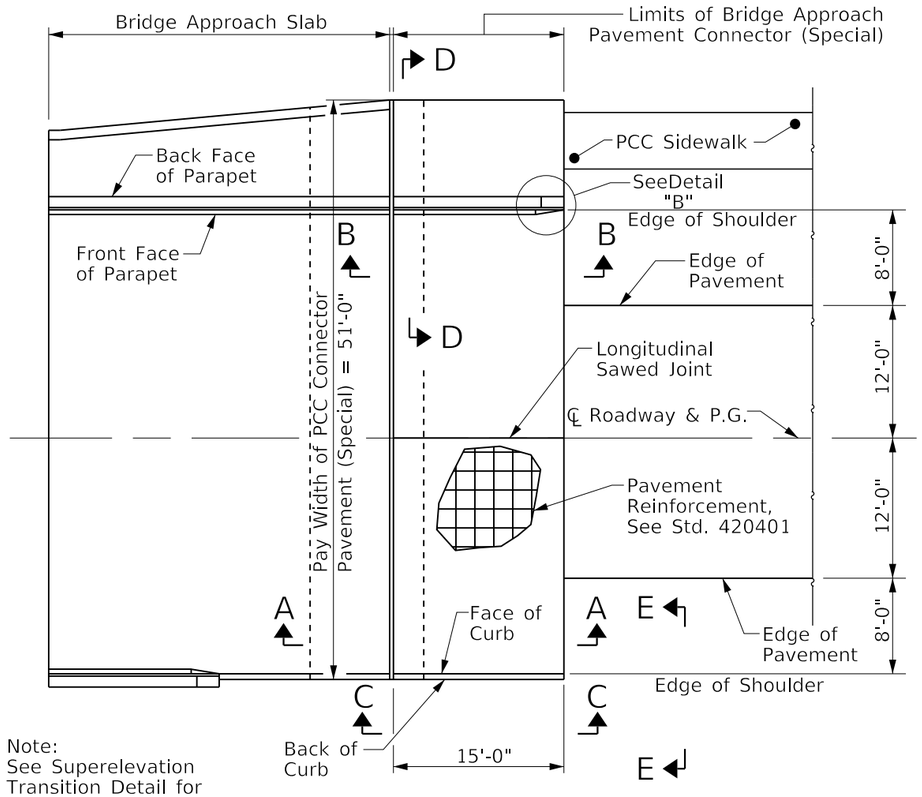
FILE NAME = D570898-sht-details-connector.dgn	USER NAME = bemery	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:57:39 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)

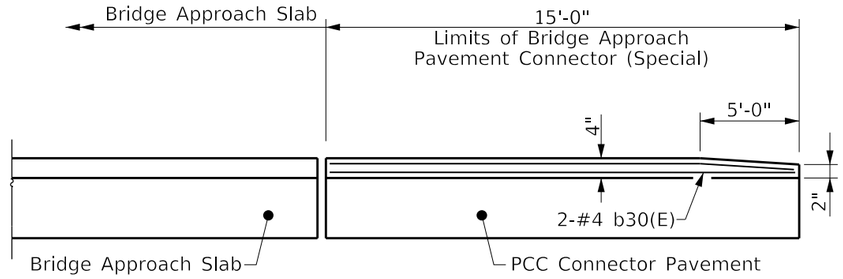
SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	125
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

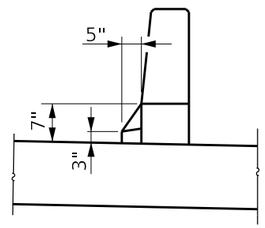


Note:
See Superelevation Transition Detail for Pavement Grades.

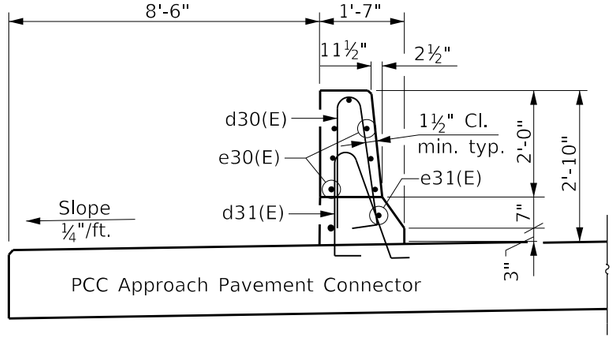
PLAN
(East Approach)



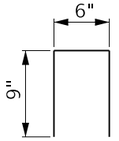
SECTION C-C



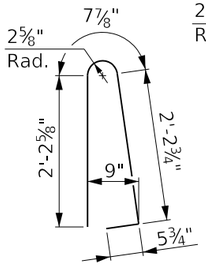
DETAIL "B"
(Taper in 2'-6")



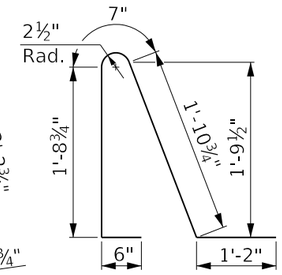
SECTION D-D



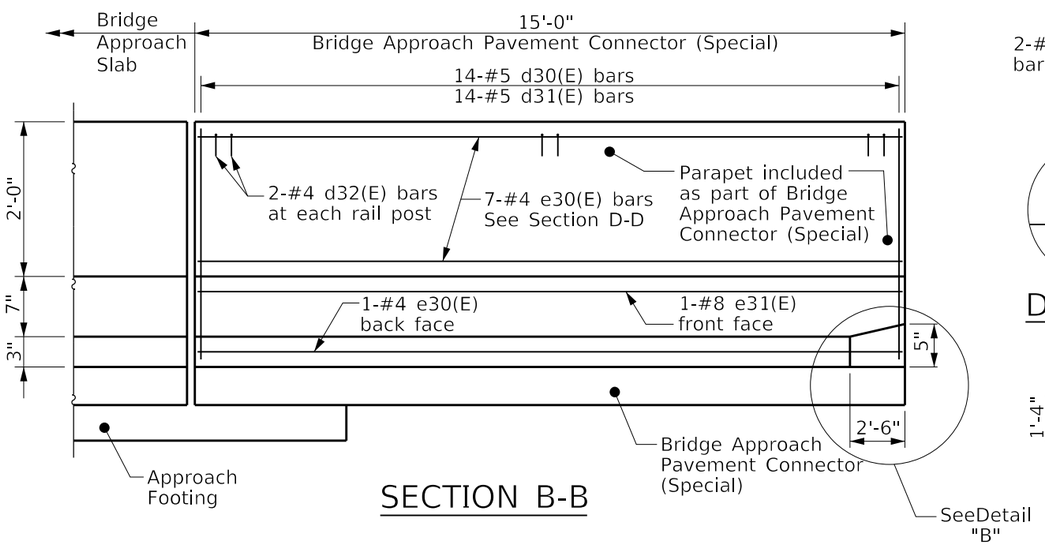
BAR d32(E)



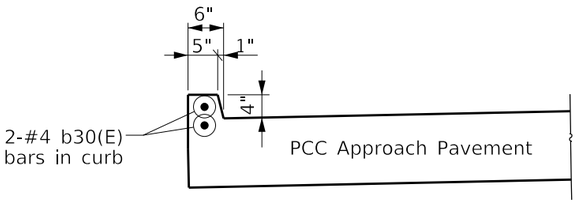
BAR d30(E)



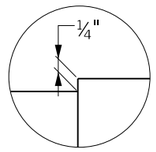
BAR d31(E)



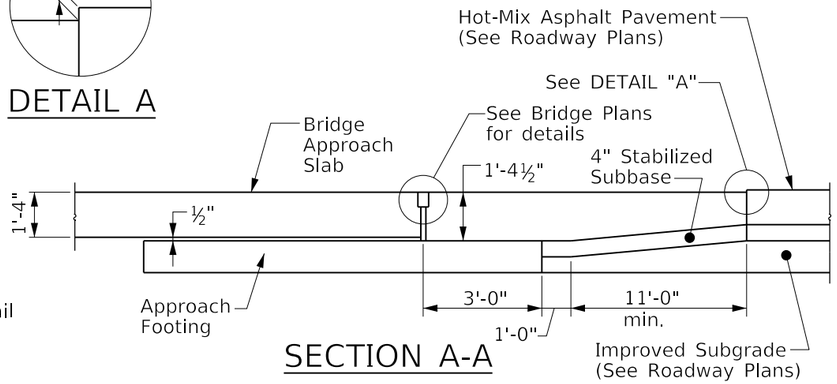
SECTION B-B



SECTION E-E



DETAIL A



SECTION A-A

PARAPET BAR LIST

(For Information Only)

Bar	No.	Size	Length	Shape
b30(E)	2	#4	14'-8"	
d30(E)	14	#5	5'-7"	
d31(E)	14	#5	5'-11"	
d32(E)	6	#4	2'-0"	
e30(E)	8	#4	14'-8"	
e31(E)	1	#8	14'-8"	
Concrete Superstructure			Cu. Yd.	2.1
Protective Coat			Sq. Yd.	95
Reinforcement Bars Epoxy Coated			Lb.	310

GENERAL NOTES

See Standard 421001 for reinforcement details not shown.
See Standard 420001 for joint details not shown.
See Structure plans for details at bridge approach, approach footing and preformed joint seal.

FILE NAME = D570898-sht-details-connector.dgn	USER NAME = bemery	DESIGNED -	REVISED -
		DRAWN -	REVISED -
Default	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/6/2019 - 2:57:39 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST BRIDGE APPROACH PAVEMENT CONNECTOR (SPECIAL)

SCALE: N.T.S. | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	126
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

780
775
770

781.04
5.10%
CUT
PRE-STAGE A = 3.00
EX ROW
WATER
0 TEL
767.64
0 TEL
150 + 00.00

780.20
4.30%
CUT
PRE-STAGE A = 3.00
EX ROW
WATER
0 TEL
767.66
769.93
0 TEL
EX ROW
149 + 50.00

779.64
EX ROW
WATER
0 TEL
767.89
770.23
EX ROW
0 TEL
149 + 00.00

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

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

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

FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
Default	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
	PLOT DATE = 5/6/2019 - 2:58:01 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 149+00.00 | TO STA. 150+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	127
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

STA. 151+25 LT
TYPE E INLET BOX, STD. 610001
PIPE DRAINS 12" = 47 FT
METAL END SECTIONS 12" = 1 EACH
CONCRETE THRUST BLOCKS = 1 EACH
STONE RIPRAP, CLASS A4 = 6.6 SQ YD
EOP ELEV. = 782.89
BACK OF GRATE ELEV. = 782.40
OUTLET / END SECTION ELEV. = 767.96
END SECTION OFFSET = 64.53'

783.66
783.66
-2.00%
-5.35%
6.41%
4.64%
2.00%
2.00%
1:3
1:3
FILL
STAGE 1 = 50.00
STAGE 2 = 28.00
EX ROW
EX. FENCE
EX ROW & A/C
WATER
TEL
767.40
768.56
151+25.00

783.15
-2.00%
-2.00%
1:3
1:3
EX A/C
EX ROW & A/C
WATER
TEL
767.56
768.77
FILL
STAGE 1 = 22.00
STAGE 2 = 17.00
151+00.00

782.02
-6.63%
1:3
EX ROW & A/C
WATER
TEL
767.56
775.45
CUT
PRE-STAGE A = 4.50
FILL
PRE-STAGE A = 1.50
150+50.00

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

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

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

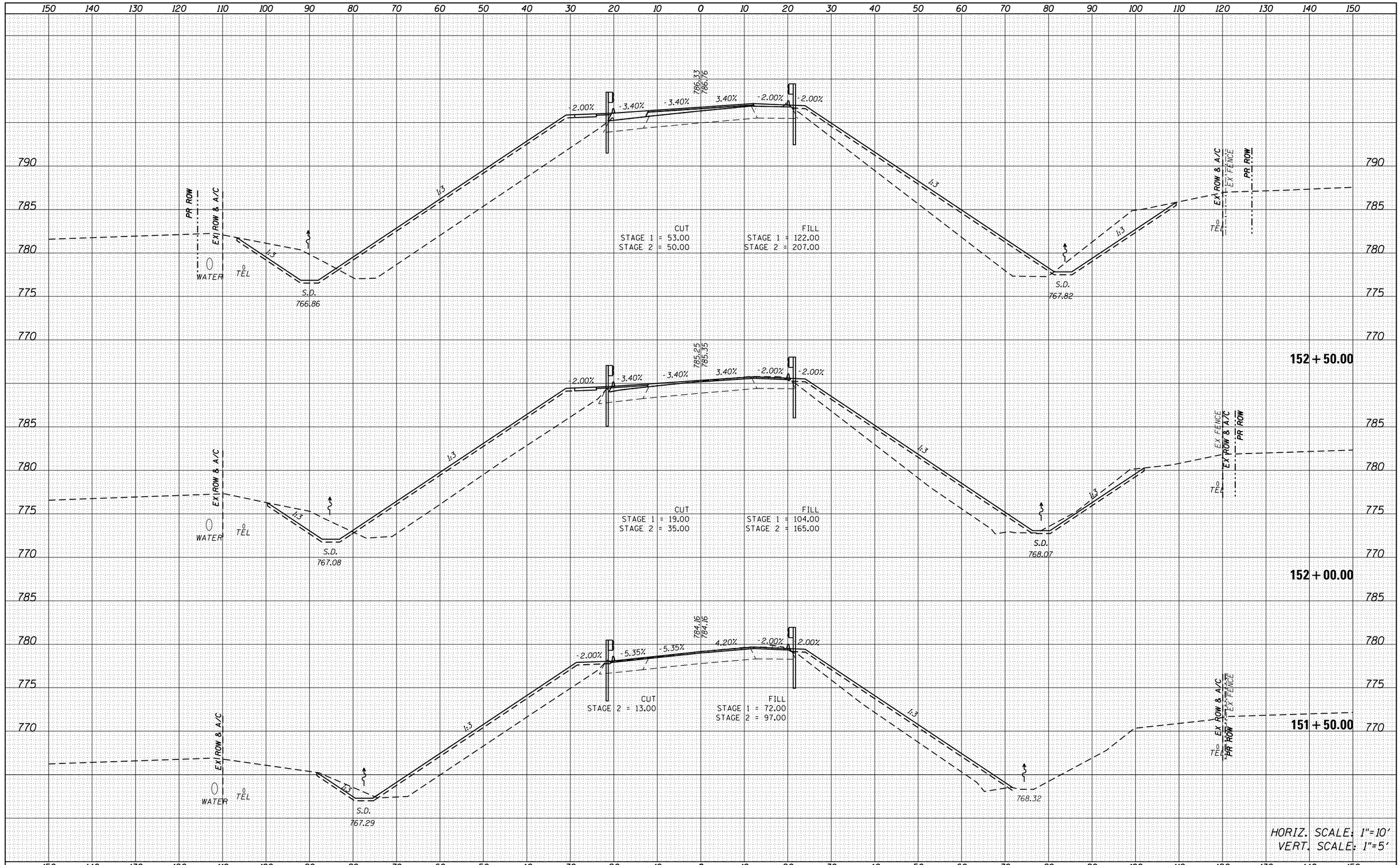
FILE NAME = D570898-sht-xsc-US150.dgn	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:58:01 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 150+50.00 TO STA. 151+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	128
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY

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

ORIGINAL SURVEY

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

FILE NAME = D570898-sht-xsc-US150.dgn	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
Default	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
	PLOT DATE = 5/6/2019 - 2:58:02 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

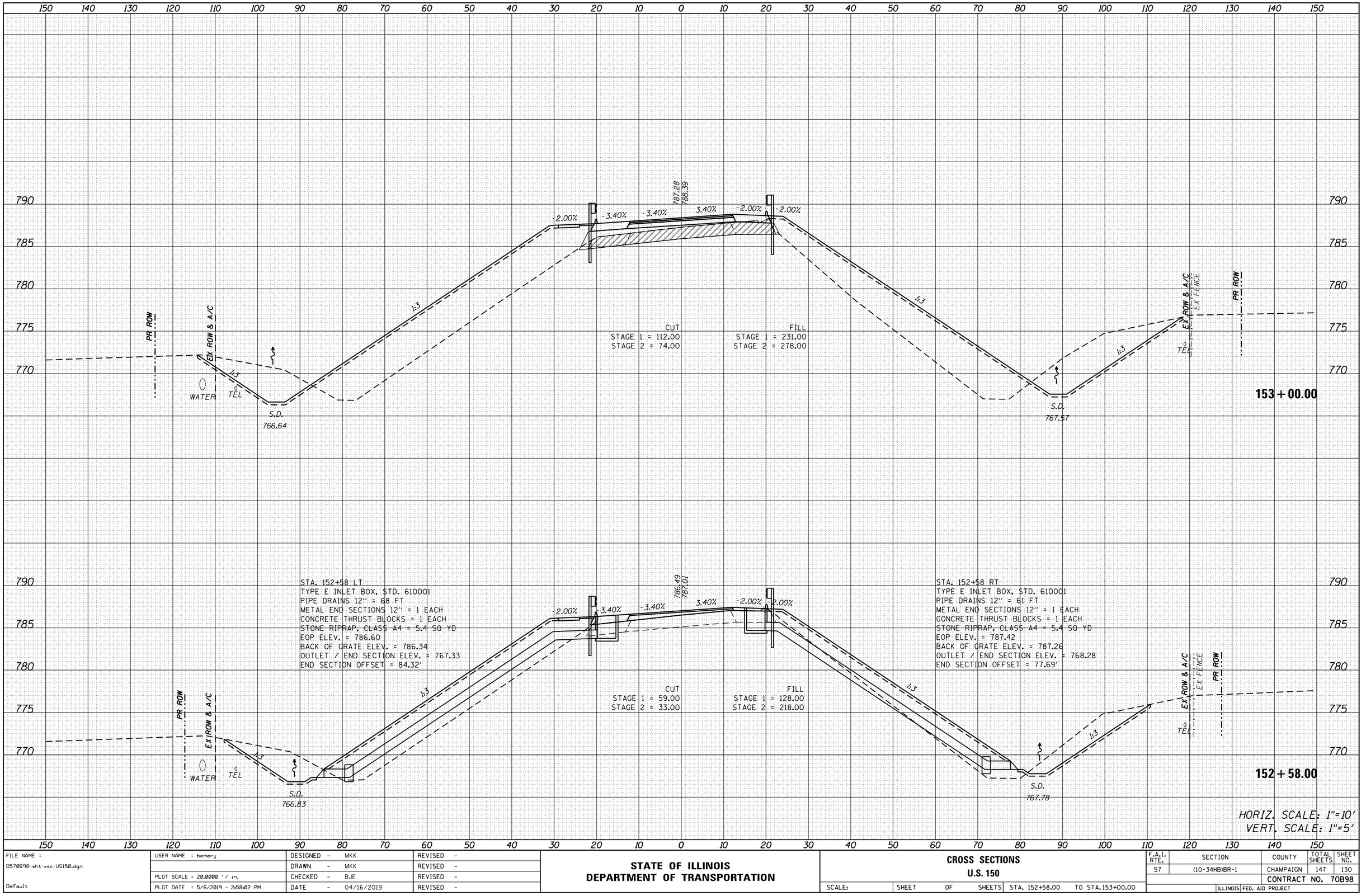
CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 152+00.00 | TO STA. 152+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	129
		CONTRACT NO. 70B98		
		ILLINOIS	FED. AID PROJECT	

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

BY	DATE



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

BY	DATE

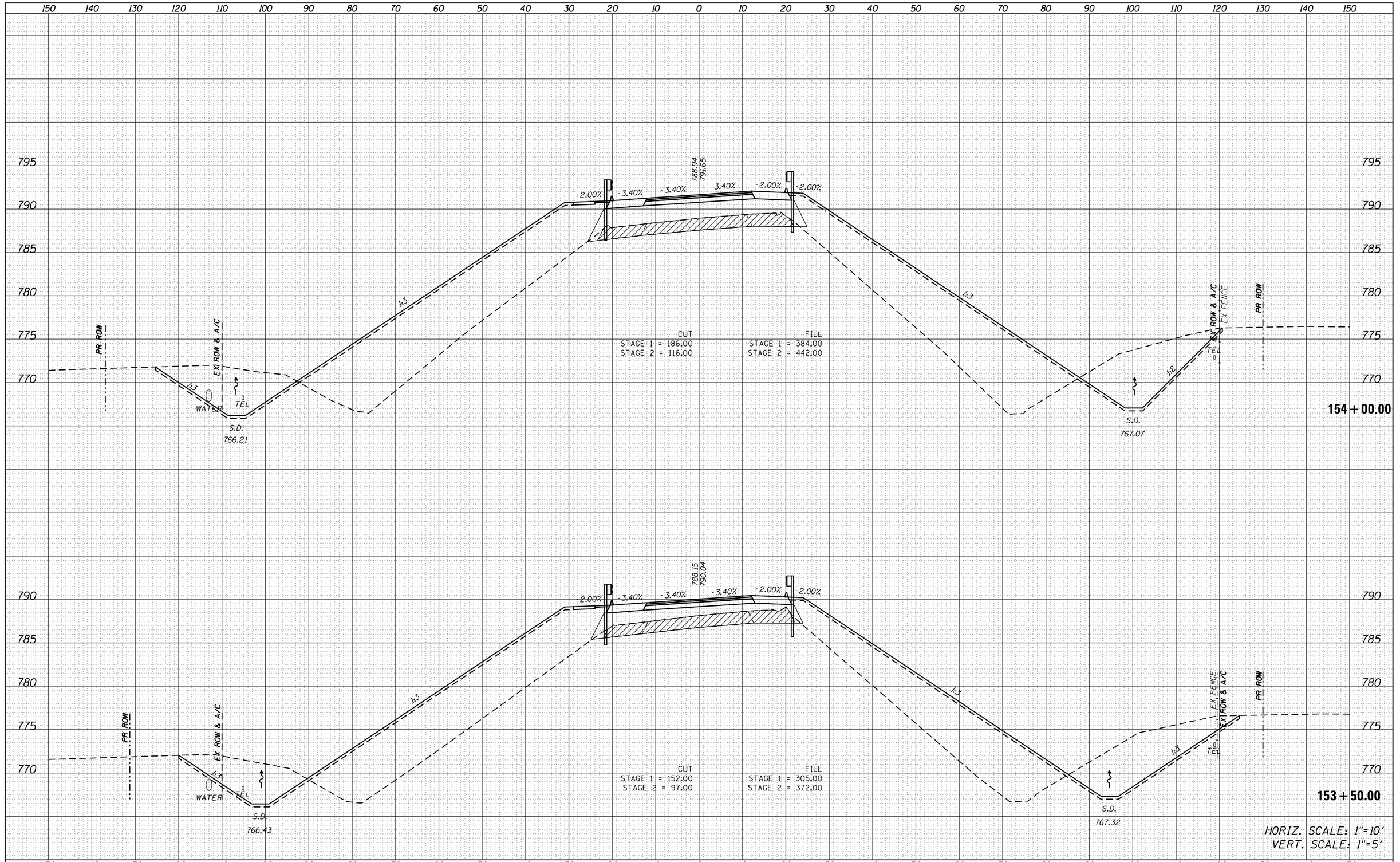
FILE NAME = D570B98-sht-xsc-US150.dgn Default	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
	PLOT DATE = 5/6/2019 - 2:58:02 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 152+58.00 TO STA.153+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	130
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		



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

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

FILE NAME = D570B98-sht-xsc-US150.dgn Default	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
	PLOT DATE = 6/4/2019 - 7:56:46 AM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 153+50.00 TO STA.154+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	131
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

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

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

STA. 155+00 LT
TYPE E INLET BOX, STD. 610001
PIPE DRAINS 12" = 94 FT
METAL END SECTIONS 12" = 1 EACH
CONCRETE THRUST BLOCKS = 1 EACH
STONE RIPRAP, CLASS A4 = 5.4 SQ YD
EOP ELEV. = 793.98
BACK OF GRATE ELEV. = 793.82
OUTLET / END SECTION ELEV. = 766.28
END SECTION OFFSET = 109.88'

STA. 155+00 RT
TYPE E INLET BOX, STD. 610001
PIPE DRAINS 12" = 86 FT
METAL END SECTIONS 12" = 1 EACH
CONCRETE THRUST BLOCKS = 1 EACH
STONE RIPRAP, CLASS A4 = 5.4 SQ YD
EOP ELEV. = 794.23
BACK OF GRATE ELEV. = 794.07
OUTLET / END SECTION ELEV. = 767.07
END SECTION OFFSET = 101.85'

795 790 785 780 775 770

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

PR ROW
1:3
EX ROW & A/C
WATER
TEL
S.D. 765.78
2.00%
2.00%
1.50%
0.58%
2.00%
2.00%
790.00
791.96
1:3
EX ROW
EX FENCE
PR ROW
TEL
1:2
S.D. 766.57

CUT
STAGE 1 = 192.00
STAGE 2 = 133.00

FILL
STAGE 1 = 513.00
STAGE 2 = 658.00

155+00.00

795 790 785 780 775 770

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

PR ROW
1:3
EX ROW & A/C
WATER
TEL
S.D. 766.00
2.00%
2.66%
2.66%
2.00%
789.61
793.03
1:3
EX ROW & A/C
EX FENCE
PR ROW
TEL
1:2
S.D. 766.82

CUT
STAGE 1 = 194.00
STAGE 2 = 131.00

FILL
STAGE 1 = 462.00
STAGE 2 = 559.00

154+50.00

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

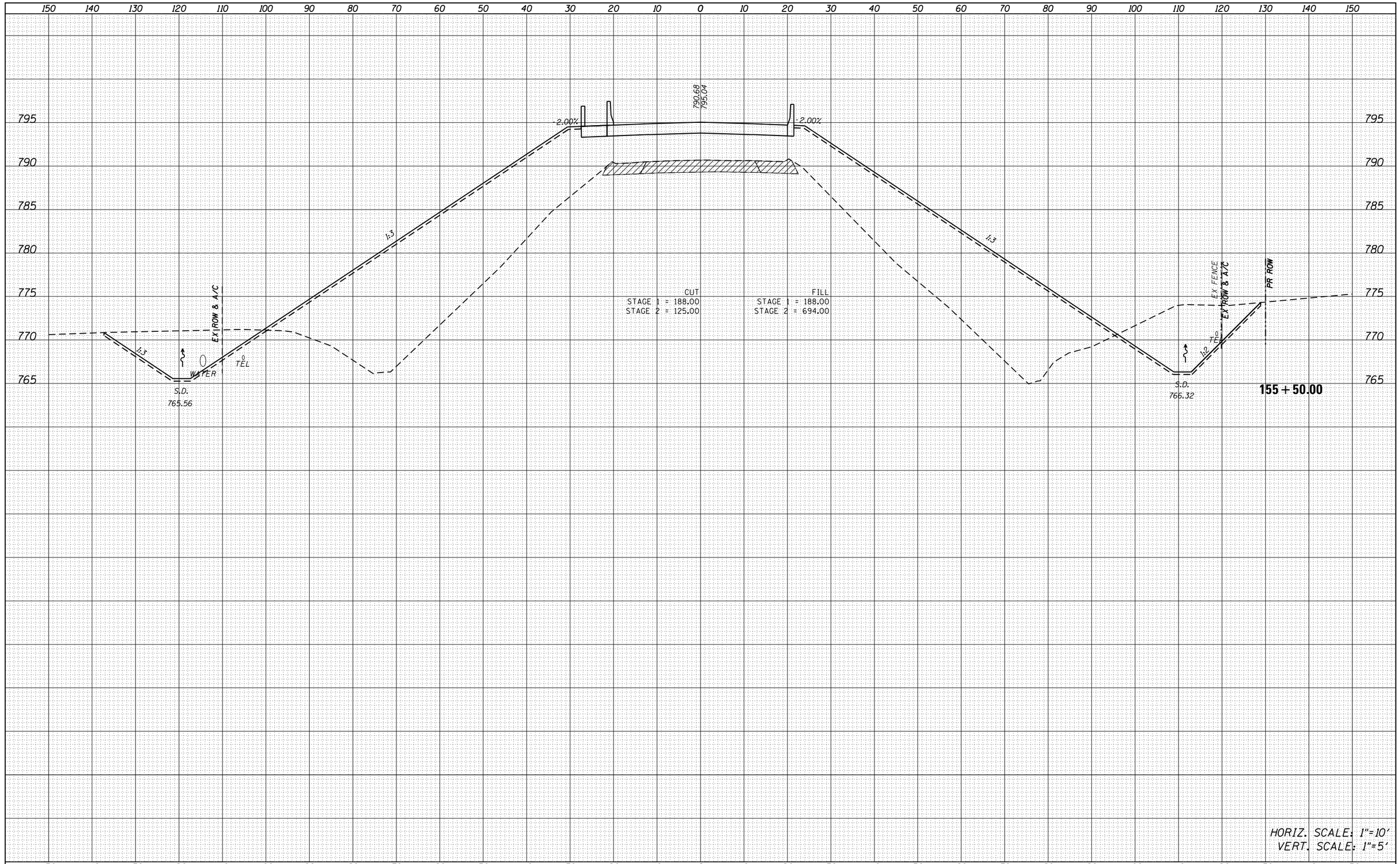
FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 6/4/2019 - 7:56:46 AM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 154+50.00 TO STA. 155+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	132
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



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

BY	DATE

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

BY	DATE

FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 6/4/2019 - 7:56:47 AM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 155+08.00 TO STA. 155+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	133
		CONTRACT NO. 70B98		
		ILLINOIS	FED. AID PROJECT	

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

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

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

795 790 785 780 775 770

SEE STRUCTURE PLANS FOR
BRIDGE DECK DETAILS

156+50.00

WATER

0
TEL

0
TEL

SEE STRUCTURE PLANS FOR
BRIDGE DECK DETAILS

791.03
795.68

EX FENCE

EX ROW & A/C

EX ROW & A/C

1:3

1:3

WATER

0
TEL

S.D.
765.35

VAR.

℄ AT PR SLOPE WALL

℄ AT PR SLOPE WALL

VAR.

VAR.

VAR.

VAR.

S.D.
766.07

0
TEL

156+00.00

CUT	FILL
STAGE 1 = 946.00	STAGE 1 = 66.00
STAGE 2 = 818.00	STAGE 2 = 11.00

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
Default	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
	PLOT DATE = 5/6/2019 - 2:58:04 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

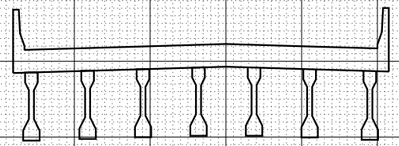
SCALE: | SHEET OF SHEETS | STA. 156+00.00 | TO STA. 156+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	134
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

795 790 785 780 775 770

SEE STRUCTURE PLANS FOR
BRIDGE DECK DETAILS



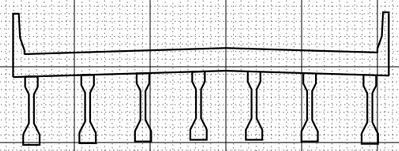
WATER

℄ TEL

℄ TEL

157 + 50.00

SEE STRUCTURE PLANS FOR
BRIDGE DECK DETAILS



795 790 785 780 775

157 + 00.00

WATER

℄ TEL

℄ TEL

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FINAL SURVEY

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

ORIGINAL SURVEY

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

FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
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Default	PLOT DATE = 5/6/2019 - 2:58:04 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 157+00.00 TO STA. 157+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	135
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

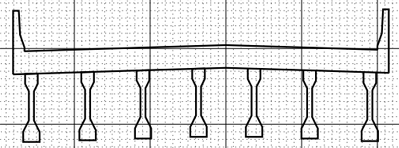
FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		BY
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		DATE

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

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

795 790 785 780 775 770 765

SEE STRUCTURE PLANS FOR BRIDGE DECK DETAILS



765.15

WATER

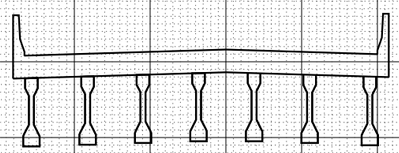
TEL

764.12

TEL

158+50.00

SEE STRUCTURE PLANS FOR BRIDGE DECK DETAILS



795 790 785 780 775

158+00.00

WATER

TEL

TEL

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemery	DESIGNED - MKK	REVISED -
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Default	PLOT DATE = 5/6/2019 - 2:58:05 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 158+00.00 | TO STA. 158+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	136
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

STA. 159+34 LT
TYPE E INLET BOX, STD. 610001
PIPE DRAINS 12" = 95 FT
METAL END SECTIONS 12" = 1 EACH
CONCRETE THRUST BLOCKS = 1 EACH
STONE RIPRAP, CLASS A4 = 5.4 SQ YD
EOP ELEV. = 793.49
BACK OF GRATE ELEV. = 793.34
OUTLET / END SECTION ELEV. = 765.64
END SECTION OFFSET = 110.40'

STA. 159+34 RT
TYPE E INLET BOX, STD. 610001
PIPE DRAINS 12" = 95 FT
METAL END SECTIONS 12" = 1 EACH
CONCRETE THRUST BLOCKS = 1 EACH
STONE RIPRAP, CLASS A4 = 6.0 SQ YD
EOP ELEV. = 793.49
BACK OF GRATE ELEV. = 793.34
OUTLET / END SECTION ELEV. = 763.41
END SECTION OFFSET = 110.70'

CUT
STAGE 1 = 62.00
STAGE 2 = 7.00

FILL
STAGE 1 = 526.00
STAGE 2 = 684.00

CUT
STAGE 1 = 59.00
STAGE 2 = 12.00

FILL
STAGE 1 = 541.50
STAGE 2 = 719.00

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

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

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

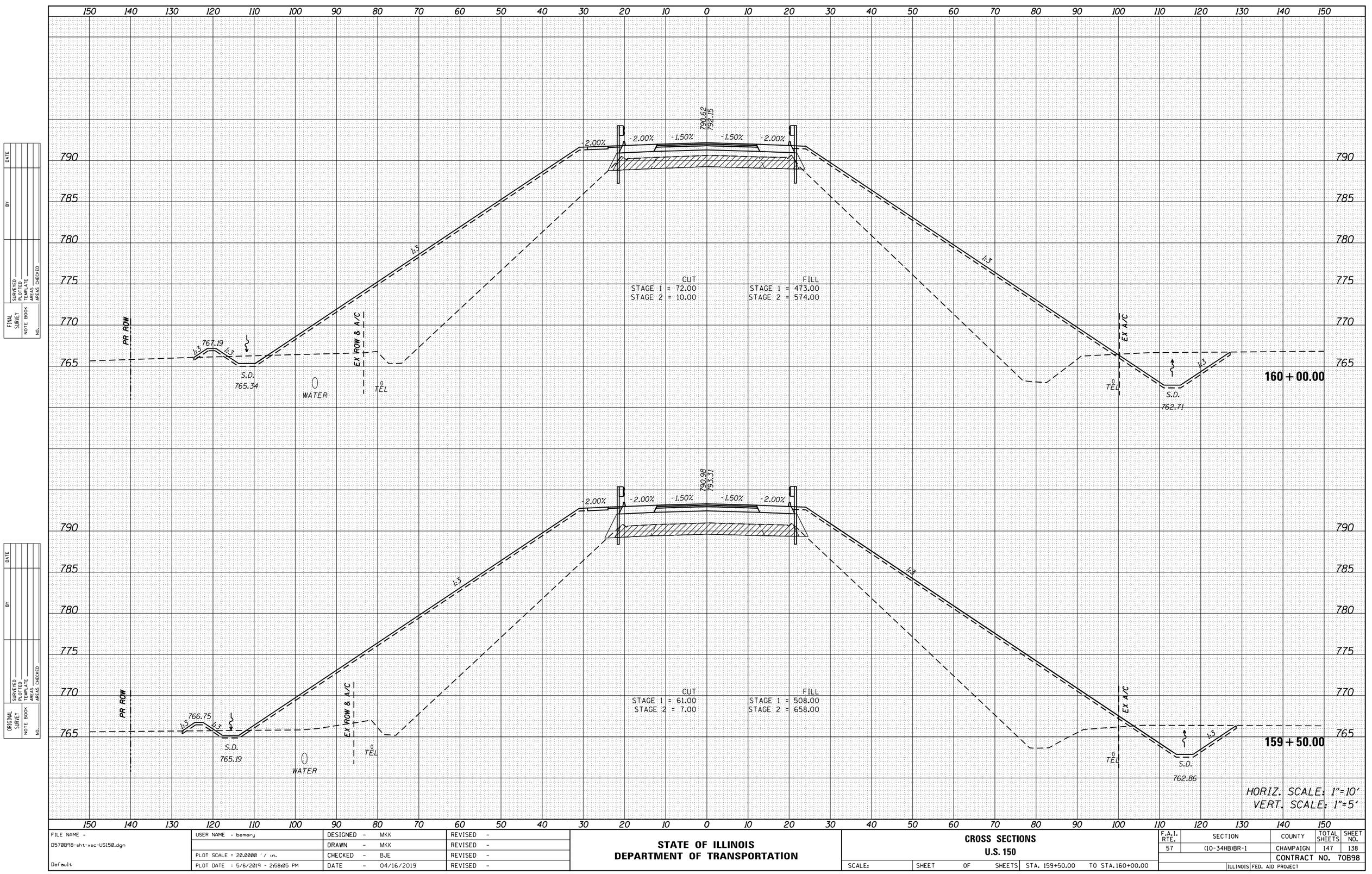
FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:58:05 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 159+00.00 TO STA. 159+27.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	137
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



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

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

BY	DATE

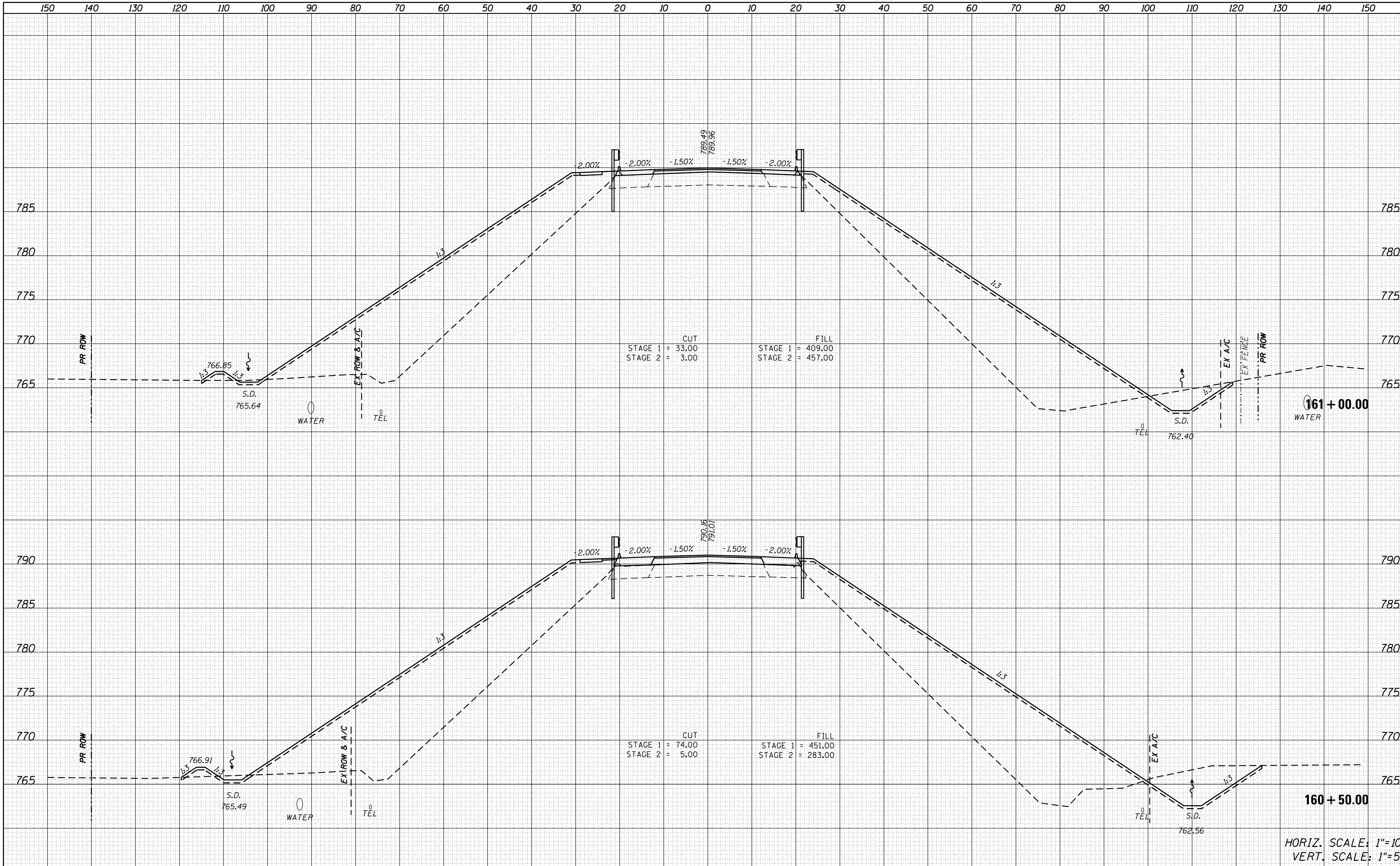
FILE NAME =	USER NAME = bemery	DESIGNED - MKK	REVISED -
D570B98-sht-xsc-US150.dgn		DRAWN - MKK	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:58:05 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 159+50.00 TO STA. 160+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	138
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		



FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:58:09 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

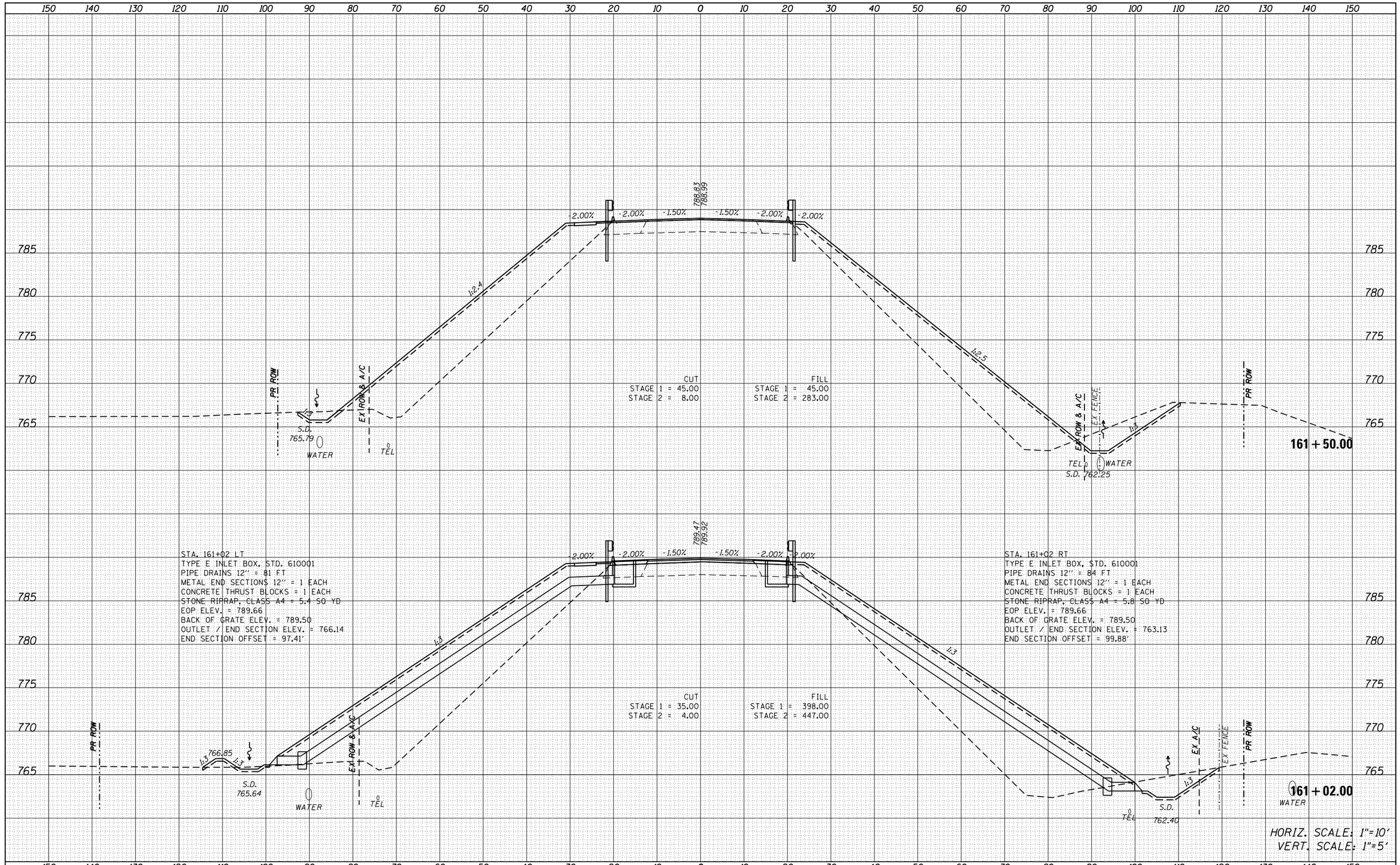
SCALE: | SHEET OF SHEETS | STA. 160+50.00 TO STA.161+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	139

CONTRACT NO. 70B98

ILLINOIS FED. AID PROJECT

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



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

FILE NAME = D570898-sht-xsc-US150.dgn Default	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
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	PLOT DATE = 5/6/2019 - 2:58:10 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 161+02.00 | TO STA. 161+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	140
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

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

BY	DATE

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

BY	DATE

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

785 780 775 770 765

EX. FENCE
EX. FENCE
EX. ROW & A/C
787.17
761.92
EX. ROW & A/C
EX. FENCE
162+50.00

-2.00% 2.00% -1.50% -1.50% 2.00% -2.00%
788.08
788.08
1:2
1:2
WATER
WATER
766.54
762.16
TEL
TEL
FILL
STAGE 1 = 26.00
STAGE 2 = 17.00
EX. FENCE
EX. FENCE
EX. ROW & A/C
EX. ROW & A/C
EX. FENCE
162+00.00

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:58:10 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 162+00.00 | TO STA. 162+50.00

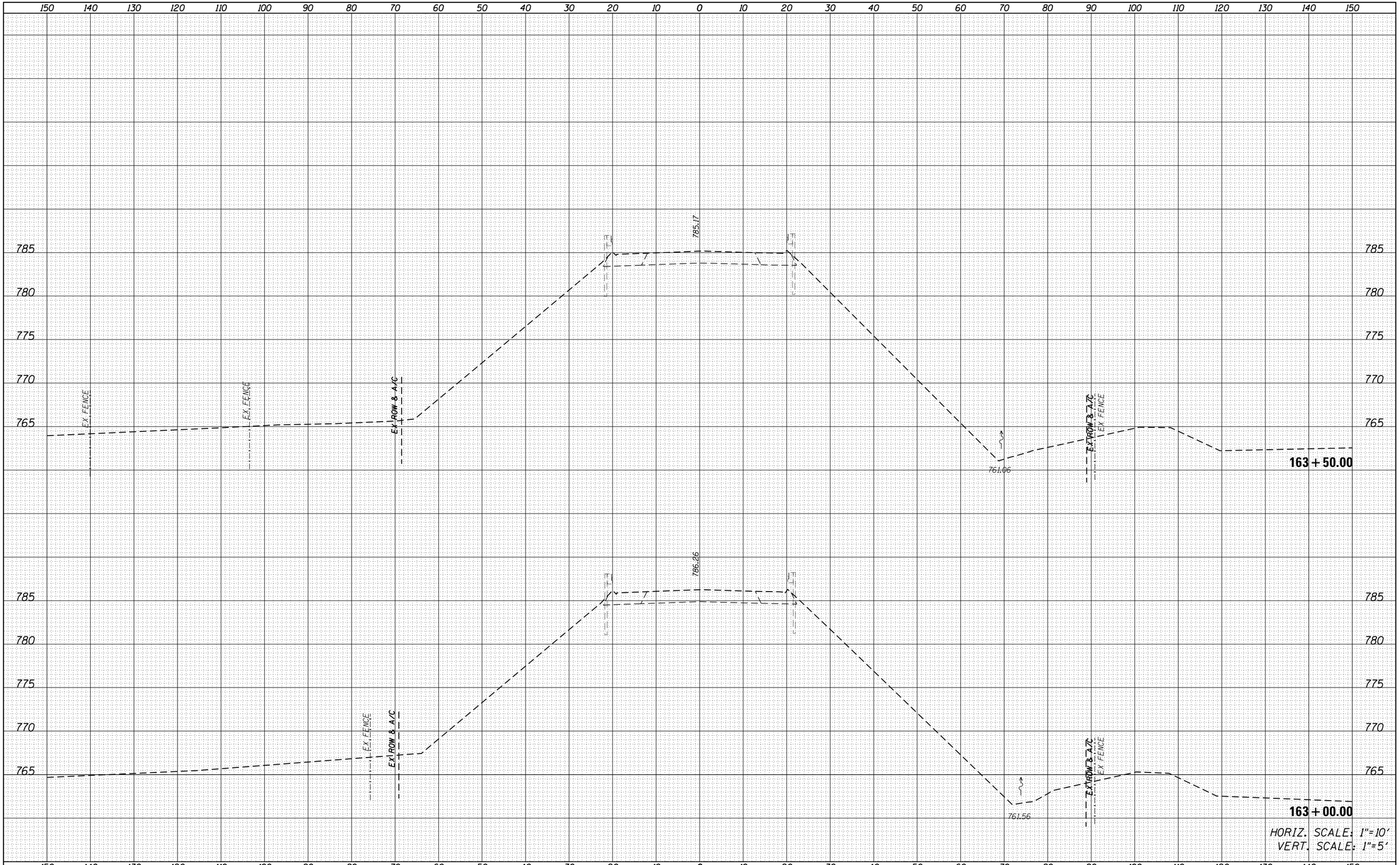
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	141
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

FINAL SURVEY	NO.	NOTE BOOK	BY	DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

ORIGINAL SURVEY	NO.	NOTE BOOK	BY	DATE

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED



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Default	PLOT DATE = 5/6/2019 - 2:58:11 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 163+00.00 | TO STA. 163+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	142
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

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

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

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

780
775
770
765

783.91

760.77

EX. ROW & A/C

EX. ROW & A/C
EX. FENCE

164+00.00

HORIZ. SCALE: 1"=10'
VERT. SCALE: 1"=5'

FILE NAME = D570B98-sht-xsc-US150.dgn	USER NAME = bemery	DESIGNED - MKK	REVISED -
		DRAWN - MKK	REVISED -
Default	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
	PLOT DATE = 5/6/2019 - 2:58:11 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

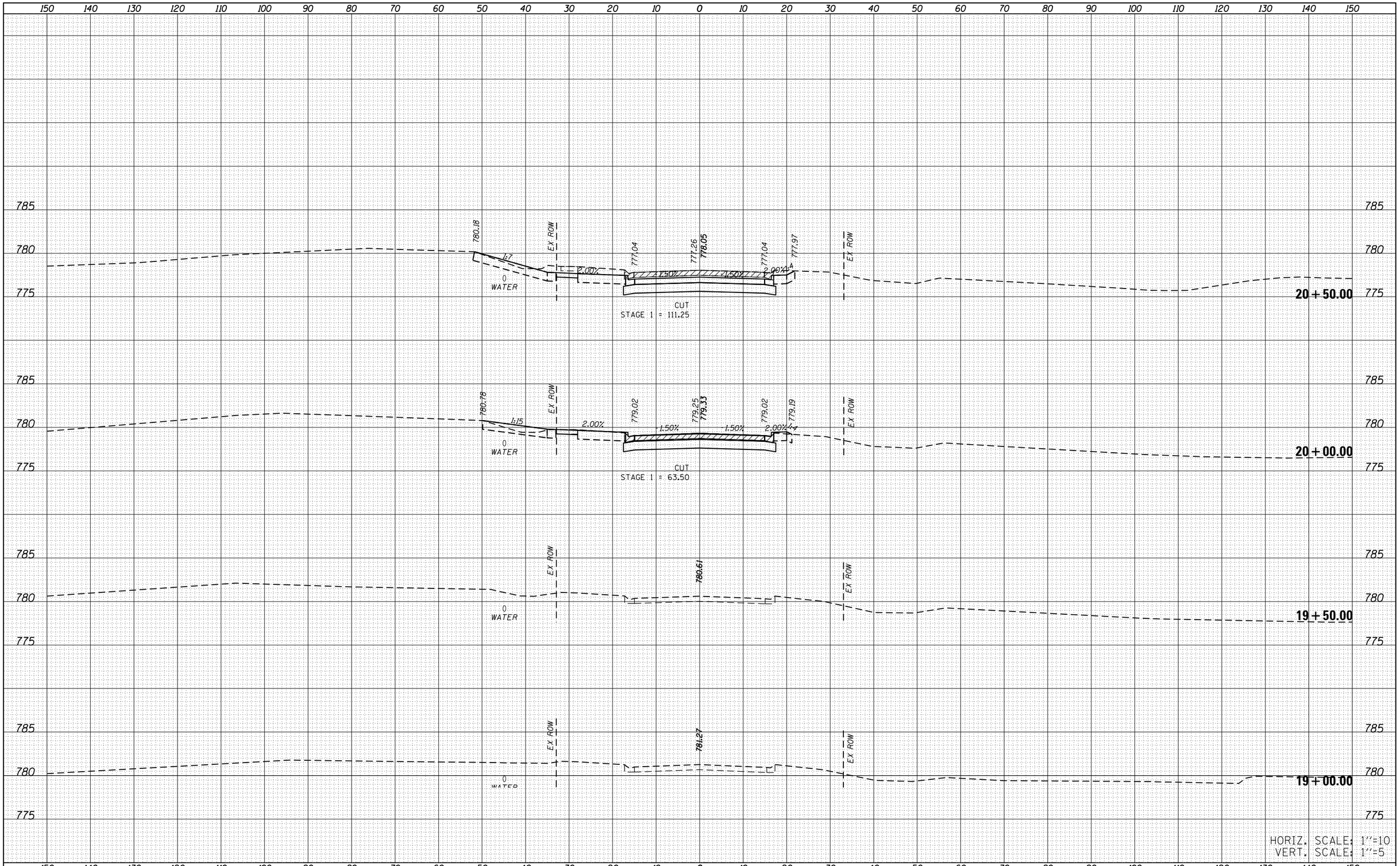
CROSS SECTIONS
U.S. 150

SCALE: | SHEET OF SHEETS | STA. 164+00.00 | TO STA. 164+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	143
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

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

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



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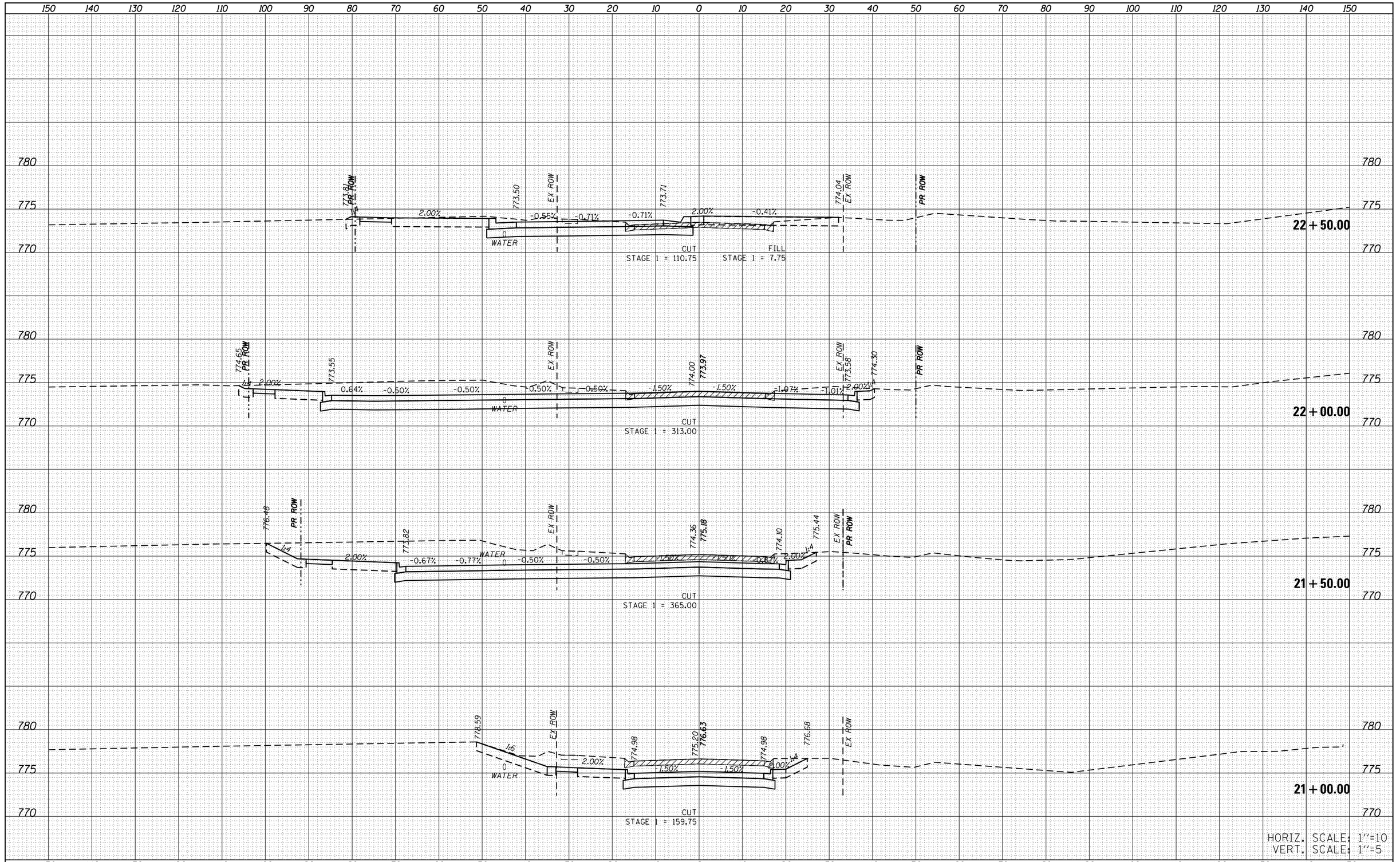
	PLOT DATE = 5/6/2019 - 2:58:32 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
MIDWEST COURT

SCALE: | SHEET OF SHEETS | STA. 19+00.00 | TO STA. 20+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	144
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			



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

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

FILE NAME = D570B98-sht-xsc-midwestct.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
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Default	PLOT DATE = 5/6/2019 - 2:58:32 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
MIDWEST COURT

SCALE: | SHEET OF SHEETS | STA. 21+00.00 | TO STA. 22+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	145
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		

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

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

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

775
770
765

771.91 EX ROW
1:3 1:3
0 WATER
S.D. 766.79
-0.42%
0.42%
CUT STAGE 1 = 118.00
FILL STAGE 1 = 5.25
772.56
EX ROW
24+50.00

771.84
EX ROW
1:3 1:3
0 WATER
S.D. 766.98
-0.16%
0.16%
CUT STAGE 1 = 153.00
0 ELEC
FILL STAGE 1 = 0.50
772.63
EX ROW
24+00.00

PR ROW
772.03
1:3 1:3
S.D. 767.16
772.55
EX ROW 773.16
0.77%
-0.77%
CUT STAGE 1 = 156.50
0 WATER
FILL STAGE 1 = 0.75
772.78
EX ROW
23+50.00

772.73
PR ROW
1:3 1:3
S.D. 767.34
773.15
EX ROW 773.37
0.72%
-0.72%
CUT STAGE 1 = 177.50
0 WATER
FILL STAGE 1 = 0.75
773.00
EX ROW
PR ROW
23+00.00

HORIZ. SCALE: 1"=10
VERT. SCALE: 1"=5

FILE NAME = D570898-sht-xsc-midwestct.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:58:33 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
MIDWEST COURT

SCALE: | SHEET OF SHEETS | STA. 23+00.00 | TO STA. 24+50.00

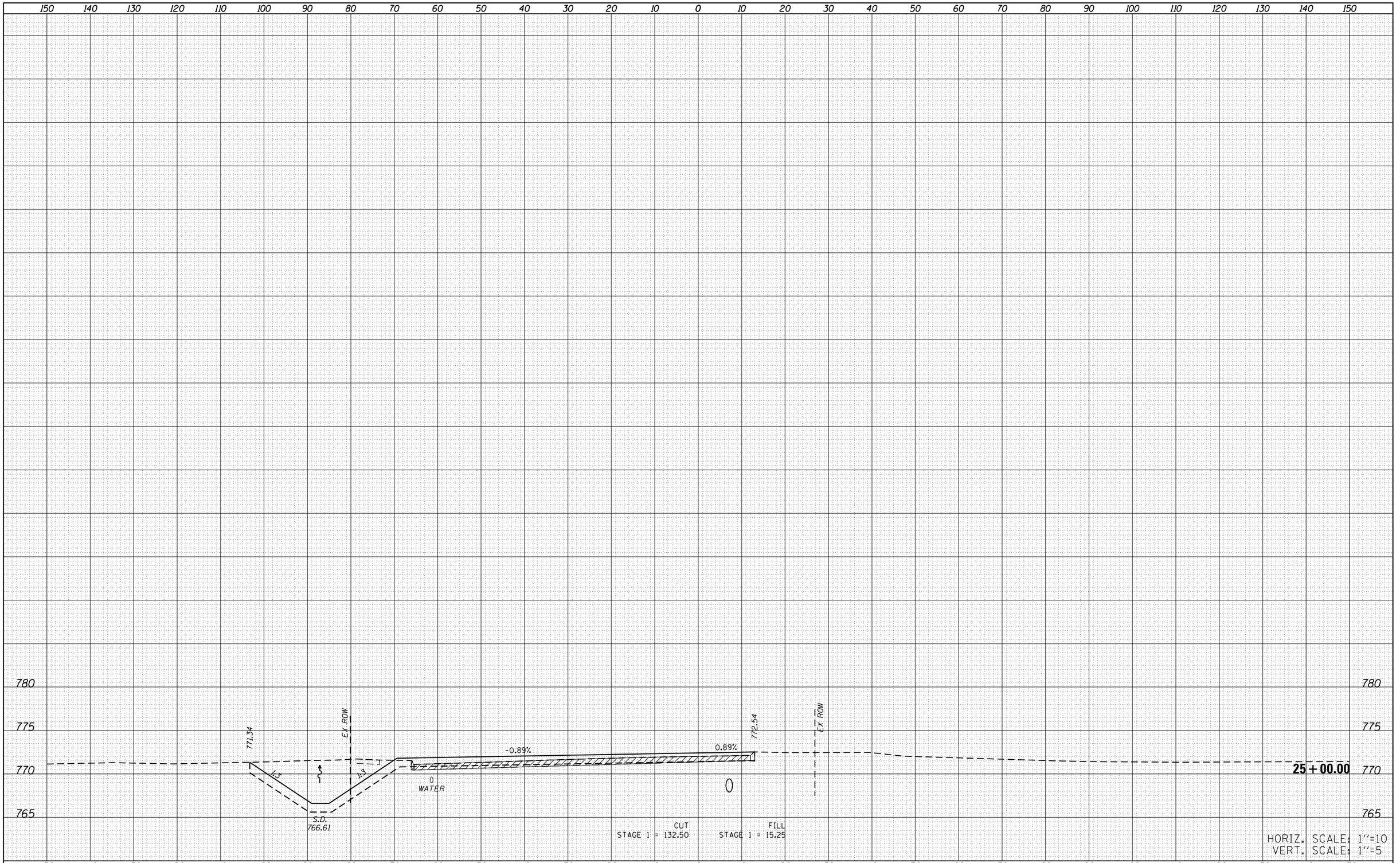
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	146
		CONTRACT NO. 70B98		
	ILLINOIS FED. AID PROJECT			

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

BY	DATE

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

BY	DATE



FILE NAME = D570B98-sht-xsc-midwestct.dgn	USER NAME = bemery	DESIGNED - CWW	REVISED -
		DRAWN - CWW	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - BJE	REVISED -
Default	PLOT DATE = 5/6/2019 - 2:58:33 PM	DATE - 04/16/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
MIDWEST COURT

SCALE: | SHEET OF SHEETS | STA. 25+00.00 | TO STA. 25+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(10-34HB)BR-1	CHAMPAIGN	147	147
		CONTRACT NO. 70B98		
		ILLINOIS FED. AID PROJECT		