

06-12-2020 LETTING ITEM 210

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED BRIDGE REPLACEMENT STP – BRIDGE

FAS 551 (CH 27) OVER SPRING CREEK & DITCH BLUE MOUND TOWNSHIP SECTION 15-00274-00-BR PROJECT BB88(511) MACON COUNTY

C-97-095-18

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES AND DETAILS
- 3 - 6 SUMMARY OF QUANTITIES
- 7 TYPICAL SECTIONS
- 8 - 9 SCHEDULE OF QUANTITIES
- 10-13 PLAN AND PROFILE
- 14-22 BRIDGE PLANS
- 23 CULVERT GENERAL PLAN & ELEVATION
- 24-51 CROSS SECTIONS

STANDARDS (IN PROPOSAL)

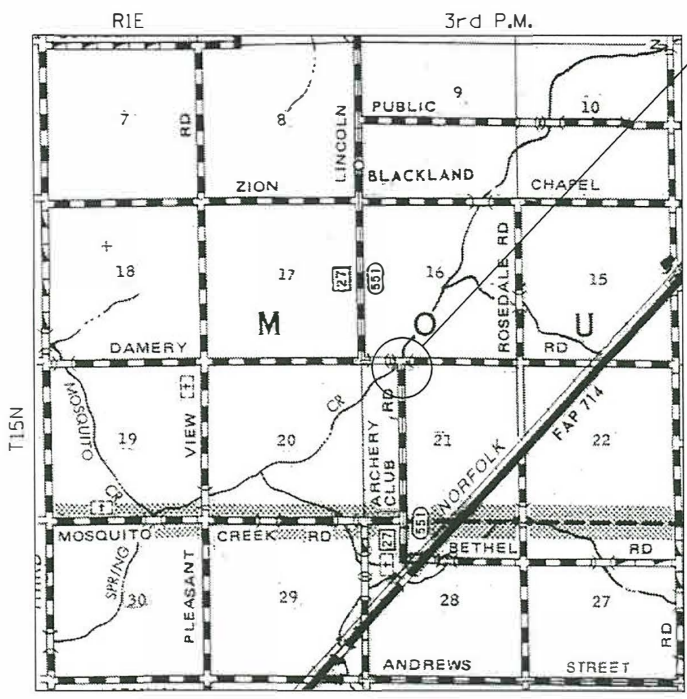
- 000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-04 NAME PLATE FOR BRIDGES
- 542401-03 METAL FLARED END SECTION FOR PIPE CULVERTS
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631032-09 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 701901-08 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS



LOCATION OF SECTION INDICATED THUS: - ■ -

FUNCTIONAL CLASSIFICATION - MINOR COLLECTOR

**ADT = 175
DESIGN SPEED = 40 MPH**



PROPOSED SECTION 15-00274-00-BR
BEGINS STA. 94+45.00
ENDS STA. 104+60.00 (DAMERY RD.)
EXIST. SN 058-3204
PROP. SN 058-3404
BEGINS STA. 17+65.00
ENDS STA. 20+00.00
(S. LINCOLN MEMORIAL PKWY)



Richard K. Allender III 3-31-2020
Expires: 11/30/2021

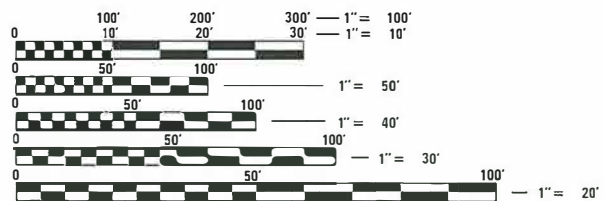


LOCATION MAP

TOTAL LENGTH = 1250 FEET (0.236 MI)
NET LENGTH = 1250 FEET (0.236 MI)

UTILITY COMPANIES:

- SHELBY ELECTRIC CORPORATION
P.O. BOX 560
1355 STATE HWY 128
SHELBYVILLE, IL 62565
PHONE: 217-774-3986
CONTACT: JIM MATLOCK
- CONSOLIDATED COMMUNICATIONS
121 S. 17TH ST.
MATTOON, IL 61938
PHONE: 217-235-4419
CONTACT: WES CHAMBERS



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

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

PROJECT MANAGER: CORY W. CHAMBERLAIN, P.E., S.E.

CONTRACT NO. 95874



THE WORK CONSISTS OF REMOVING THE EXISTING BRIDGES AND CONSTRUCTING A NEW STRUCTURE (S.N. 058-3404) AT STA. 100+00.00 WITH A SINGLE SPAN PRECAST PRESTRESSED DECK BEAM BRIDGE ON CONCRETE PILE BENT ABUTMENTS AND ELIMINATING THE RELIEF STRUCTURE (S.N. 058-3203) AT STA. 95+45.00, 28'-0" CLEAR ROADWAY WIDTH AND 70'-0" BACK TO BACK OF ABUTMENTS, 15° SKEW, VARIABLE WIDTH TRANSITION APPROACHES AND OTHER COLLATERAL WORK.

APPROVED <u>APRIL 1</u> 20 <u>20</u> <i>Ben J. ...</i> COUNTY ENGINEER	
PASSED <u>4-13</u> 20 <u>20</u> <i>Sharon A. Phillips</i> DISTRICT SEVEN ENGINEER OF LOCAL ROADS AND STREETS	
Released For Bid Based on Limited Review <u>4-13</u> 20 <u>20</u> <i>John P. Meyer</i> REGION FOUR ENGINEER	
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	

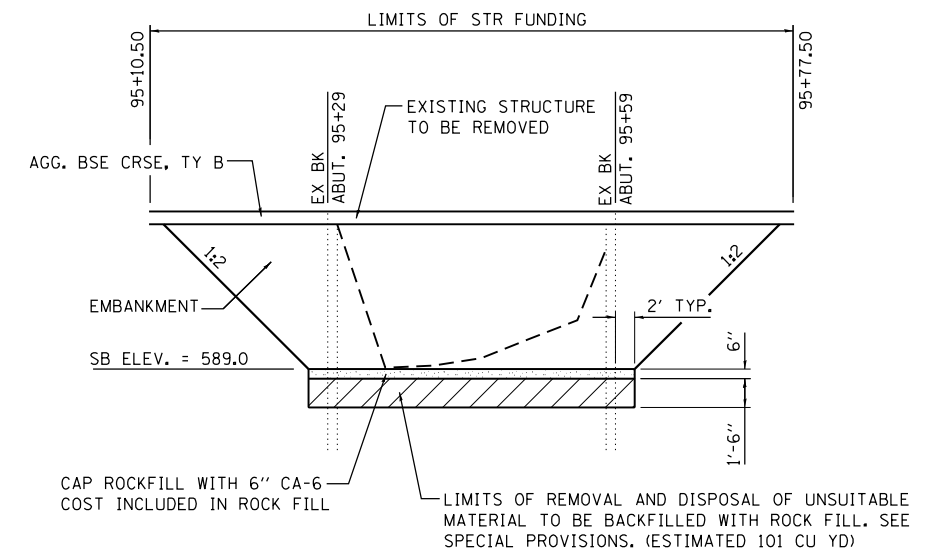
Operator: b.johnson Date: 3/31/2020 File name: 3FILES

GENERAL NOTES

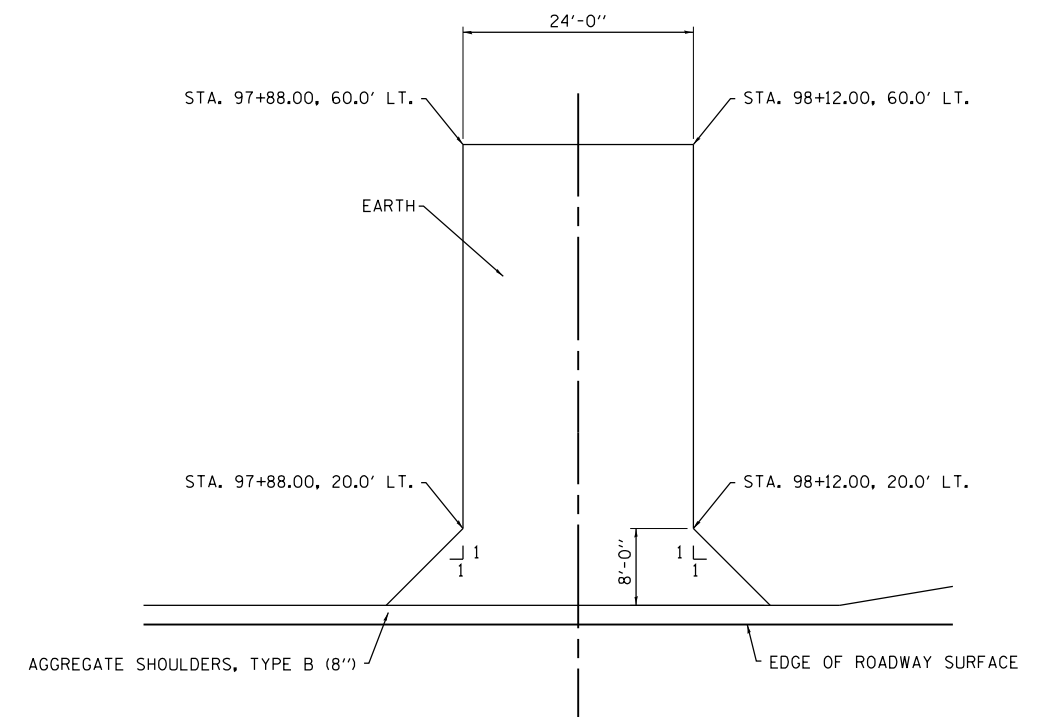
COMMITMENTS

- WHERE PERMANENT SURVEY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.
- ALL ELEVATIONS ARE BASED ON NAVD 88. THE PROPOSED GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND STATION CROSS SECTIONS ARE THE ELEVATIONS FOR THE FINISHED SURFACE AT THE LOCATIONS INDICATED.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONTRACT ITEMS INVOLVED.
- THE FOLLOWING APPLICATION RATES HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:
 TEMPORARY EROSION CONTROL SEEDING: 100 LB/ACRE
 AGGREGATE BASE COURSE: 2.05 TONS/CU YD
 BITUMINOUS MATERIALS (PRIME COAT): 0.25 LB/SQ FT
 BITUMINOUS MATERIALS (COVER AND SEAL COAT): 0.25 LB/SQ FT
 COVER COAT & SEAL COAT AGGREGATE: 23 LB/SQ YD
 RIPRAP: 1.50 TONS/CU YD
- THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT AREA ARE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER AND MUST NOT CONFLICT WITH EXISTING SIDE ROADS, INTERSECTIONS, DRIVEWAYS, OR DRAINAGE. ALL OPERATIONS SHALL BE SUBJECT TO REGULATORY REQUIREMENTS PERMITTED FOR THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS.
- DISTURBED AREAS SHALL RECEIVE PERMANENT STABILIZATION WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION ACTIVITIES. TEMPORARY STABILIZATION OF WORK AREAS IS REQUIRED FOR ALL AREAS REMAINING UNDISTURBED FOR 14 DAYS, UNLESS WORK RESUMES PRIOR TO 21 DAYS. TEMPORARY STABILIZATION MUST BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL RELOCATE OR REMOVE AND REPLACE ALL SIGNS THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS AND TEMPORARILY RESET ALL SUCH SIGNS DURING ALL STAGES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL DETERMINE THE PERMANENT LOCATION FOR EXISTING SIGNS TO BE RE-ERECTED.
- CONTRACTOR SHALL FOLLOW CONSTRUCTION REQUIREMENTS OF SECTION 611 WHEN EXISTING FIELD TILE IS ENCOUNTERED. ALL FIELD TILES ENCOUNTERED SHALL BE CAREFULLY PRESERVED, REPAIRED AND CONNECTED TO THE PROPOSED DRAINAGE STRUCTURES, SEWERS OR DITCHES AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS DRAINAGE ITEMS OR AS DIRECTED BY THE ENGINEER.
- THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN. ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
- EMBANKMENTS ON HILLSIDES OR SLOPES SHALL BE CONSTRUCTED ACCORDING TO ARTICLE 205.03.
- THE EXISTING A-3 ROAD SURFACE AT ALL LOCATIONS WITHIN THE PROJECT LIMITS SHALL BE DISCED, PLOWED, SCARIFIED OR OTHERWISE BROKEN UP TO A DEPTH OF NOT LESS THAN 6 INCHES PRIOR TO THE INCORPORATION OF ADDITIONAL EMBANKMENT AS DIRECTED BY THE ENGINEER. THE COST SHALL BE INCLUDED WITH PAVEMENT REMOVAL.
- CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY OTHER CONSTRUCTION WORK AT SITE.
- CONTRACTOR SHALL VERIFY THE LENGTH OF REQUIRED PIPE CULVERTS PRIOR TO ORDERING.
- PAVEMENT REMOVAL TO INCLUDE THE EXISTING AGGREGATE BASE COURSE AND OIL AND CHIP SURFACE TREATMENT.
- THE CONTRACTOR SHALL USE CARE IN ALL REMOVAL ACTIVITIES NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

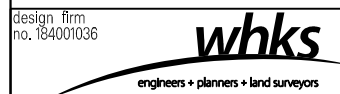
- THE BRIDGE BAT ASSESSMENT EXPIRES 8/23/2021. A VALID ASSESSMENT IS REQUIRED PRIOR TO PERFORMING ANY WORK BELOW THE EXISTING BRIDGE DECK SURFACES.



ROCK FILL DETAIL
STA. 95+45.00



FIELD ENTRANCE DETAIL
(WITH AGGREGATE SHOULDERS)
STA. 98+00, LT.



USER NAME = *OPERATOR*	DESIGNED - BJJ	REVISED
FILE NAME = *FILES*	CHECKED - RKA	REVISED
PLOT SCALE = *SCALE*	DRAWN - GSJ	REVISED
PLOT DATE = *DATE*	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND DETAILS
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: 1" = 10' SHEET NO. 1 OF 1 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	2
ILLINOIS FED. AID PROJECT			CONTRACT NO. 95874	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				STP-BRIDGE	STR-ROADWAY
				0010 S. N. 058-3404	0004 S. N. 058-3203
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	60	60	
20200100	EARTH EXCAVATION	CU YD	1544	1203	341
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	182	81	101
20300100	CHANNEL EXCAVATION	CU YD	420	420	
20400800	FURNISHED EXCAVATION	CU YD	2017	1684	333
20700220	POROUS GRANULAR EMBANKMENT	CU YD	46	46	
21400100	GRADING AND SHAPING DITCHES	FOOT	50	50	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	126	126	
28000305	TEMPORARY DITCH CHECKS	FOOT	132	132	
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28100107	STONE RIPRAP, CLASS A4	SO YD	30	30	
28100109	STONE RIPRAP, CLASS A5	SO YD	404	404	
28200200	FILTER FABRIC	SO YD	434	434	
35101400	AGGREGATE BASE COURSE, TYPE B	TON	1264	1193	71

Δ SPECIALTY ITEMS

Design firm
no. 154001036



USER NAME = gjameson	DESIGNED - BJJ	REVISED
FILE NAME = S00.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 100.0000' / 1" =	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: NTS SHEET NO. 1 OF 4 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	3
				CONTRACT NO. 95874
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				STP-BRIDGE	STR-ROADWAY
				0010 S. N. 058-3404	0004 S. N. 058-3203
40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	3	3	
40300400	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	TON	10	9	1
40300500	COVER COAT AGGREGATE	TON	67	63	4
40300600	SEAL COAT AGGREGATE	TON	34	32	2
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	34	34	
44000100	PAVEMENT REMOVAL	SO YD	1025	945	80
48101200	AGGREGATE SHOULDERS, TYPE B	TON	323	309	14
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	1	
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1	1	
50105220	PIPE CULVERT REMOVAL	FOOT	32	32	
50200100	STRUCTURE EXCAVATION	CU YD	82	82	
50300225	CONCRETE STRUCTURES	CU YD	29.8	29.8	
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SO FT	1907	1907	

△ SPECIALTY ITEMS

Design firm
no. 184001036



USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = 500.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 100.0000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: NTS SHEET NO. 2 OF 4 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	4
CONTRACT NO. 95874			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				STP-BRIDGE	STR-ROADWAY
				0010 S. N. 058-3404	0004 S. N. 058-3203
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4210	4210	
Δ 50901050	STEEL RAILING, TYPE SM	FOOT	137	137	
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	385	385	
51202305	DRIVING PILES	FOOT	385	385	
51203200	TEST PILE METAL SHELLS	EACH	2	2	
51500100	NAME PLATES	EACH	1	1	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2	
54010904	PRECAST CONCRETE BOX CULVERTS 9' X 4'	FOOT	48	48	
54200235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	48	48	
54262730	METAL FLARED END SECTIONS 30"	EACH	2	2	
58100200	WATERPROOFING MEMBRANE SYSTEM	SO YD	212	212	
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	245	245	
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	64	64	
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	60.4	60.4	

Δ SPECIALTY ITEMS

design firm
no. 184001036



USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = 500.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 100.0000' / 1" =	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: NTS SHEET NO. 3 OF 4 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	5
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				STP-BRIDGE	STR-ROADWAY
				0010 S. N. 058-3404	0004 S. N. 058-3203
Δ 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2	2	
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2	
67100100	MOBILIZATION	L SUM	1	1	
Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SO YD	84	84	
X2501000	SEEDING, CLASS2 (SPECIAL)	ACRE	1.3	1.3	
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0054400	ROCK FILL	CU YD	179	78	101
Z0075496	CONCRETE RETAINING WALL REMOVAL	FOOT	16	16	

Δ SPECIALTY ITEMS

Design Firm
no. 184001036



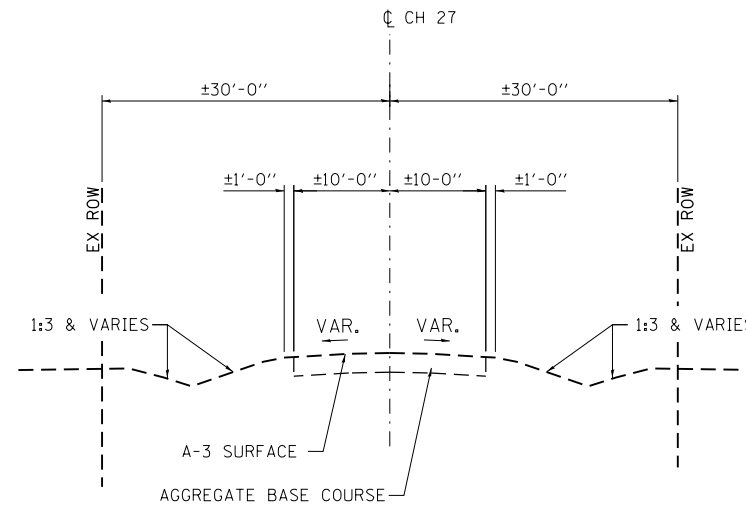
USER NAME = gjameson	DESIGNED - BJJ	REVISED
FILE NAME = 500.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 100.0000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: NTS SHEET NO. 4 OF 4 SHEETS

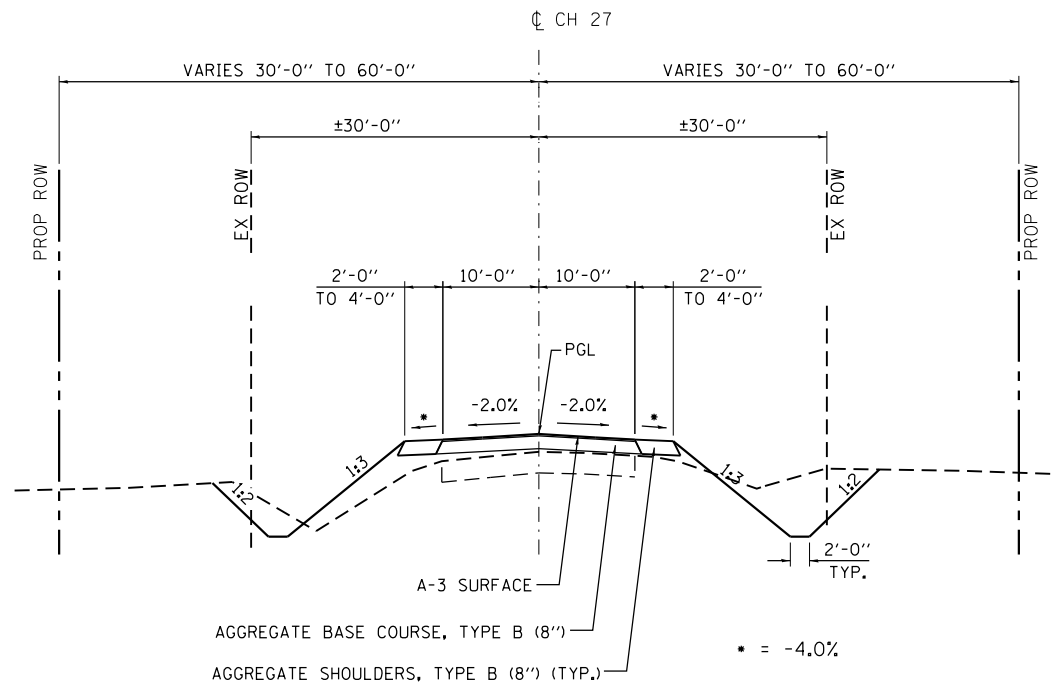
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	6
CONTRACT NO. 95874			ILLINOIS FED. AID PROJECT	



EXISTING TYPICAL SECTION

STA. 94+45.00 TO STA. 104+60.00
(LOOKING EAST)

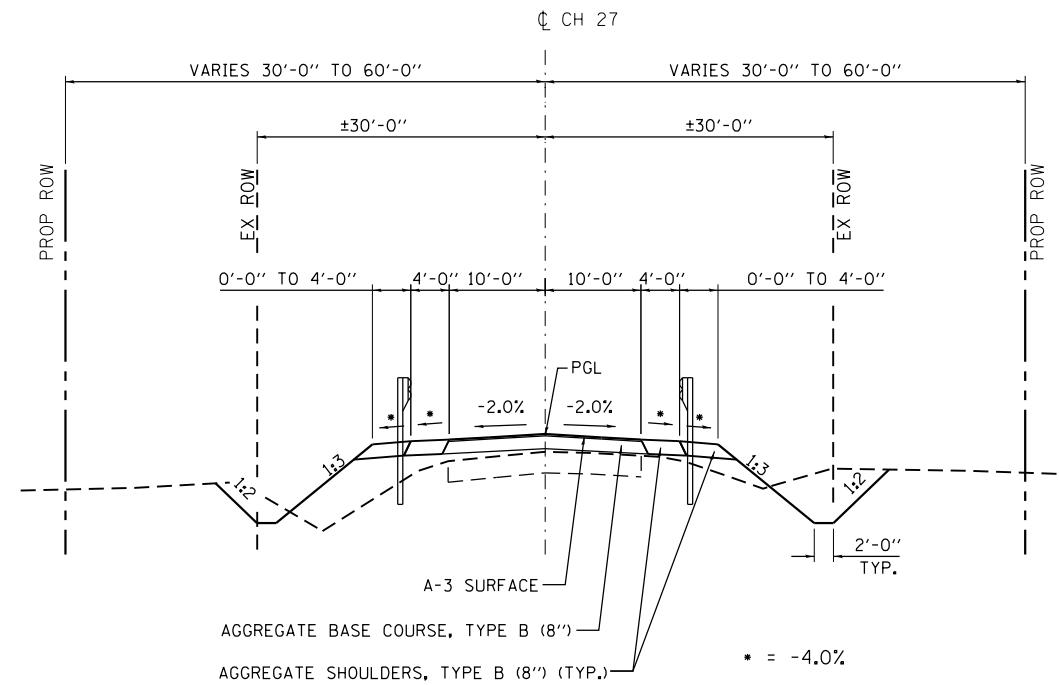
STA. 17+65.00 TO STA. 20+00.00
(LOOKING NORTH)



PROPOSED TYPICAL SECTION

STA. 94+45.00 TO STA. 99+68.75 LT
STA. 101+60.75 TO STA. 104+60.00 LT
STA. 94+45.00 TO STA. 98+39.25 RT
STA. 100+31.25 TO STA. 104+60.00 RT
(LOOKING EAST)

STA. 17+65.00 TO STA. 20+00.00
(LOOKING NORTH)



PROPOSED TYPICAL SECTION

STA. 100+38.75 TO STA. 101+60.75 LT
STA. 98+39.25 TO STA. 99+61.25 RT
(LOOKING EAST)

BRIDGE OMISSION:
STA. 99+65.00 TO STA. 100+35.00 (SN 058-3404)

LOCATION	20200100	23000100	FOR INFORMATIONAL ONLY		20400800
	EARTH EXCAVATION	CHANNEL EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE)	EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE(+) AND SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 95+10.50 TO STA. 95+77.50	341 *		256 *	589 *	-333 *
STR FUNDING SUB-TOTAL	341	0	256	589	-333
STA. 94+45.00 TO STA. 95+10.50	11		8	37	-29
STA. 95+77.50 TO STA. 99+65.00	729		547	1030	-483
STA. 99+65.00 TO STA. 100+35.00		420	210 **		210
STA. 100+35.00 TO STA. 104+60.00	275		206	1433	-1227
STA. 17+65.00 TO STA. 19+90.00	188		141	296	-155
SUB-TOTAL	1203	420	1112	2796	-1684
TOTAL	1544	420	1368	3385	-2017

EARTH EXCAVATION SHRINKAGE FACTOR = 25%

*INDICATES STR FUNDING

**CHANNEL EX USED IN EMBANKMENT= 50%

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

CH 27 (DAMERY ROAD)	UNIT
LT 100+60.00	10
LT 100+65.00	10
LT 100+70.00	10
LT 100+75.00	10
LT 100+80.00	10
LT 100+85.00	10
TOTAL	60

20201200 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

CH 27 (DAMERY ROAD)	CU YD
CL 95+45.00	101 *
CH 27 (LINCOLN MEMORIAL PKWY)	
CL 19+50.00	81
*INDICATES STR FUNDING	TOTAL 182

20700220 POROUS GRANULAR EMBANKMENT

CH 27 (LINCOLN MEMORIAL PKWY)	CU YD
CL 19+50.00	46
TOTAL	46

21400100 GRADING AND SHAPING DITCHES

CH 27 (DAMERY ROAD)	FOOT
LT 19+44.00 TO LT 19+60.00	20
RT 19+44.00 TO RT 19+67.00	30
TOTAL	50

28000250 TEMPORARY EROSION CONTROL SEEDING

CH 27 (DAMERY ROAD)	POUND
NE QUAD	35
NW QUAD	17
SE QUAD	23
SW QUAD	51
TOTAL	126

28000305 TEMPORARY DITCH CHECKS

CH 27 (DAMERY ROAD)	FOOT
LT 95+45.00	11
LT 96+90.00	11
RT 95+45.00	11
RT 97+15.00	11
RT 98+75.00	11
LT 103+50.00	11
LT 101+40.00	11
RT 102+25.00	11
CH 27 (LINCOLN MEMORIAL PKWY)	
RT 18+65.00	11
RT 19+25.00	11
LT 18+65.00	11
LT 19+25.00	11
TOTAL	132

28000500 INLET AND PIPE PROTECTION

CH 27 (DAMERY ROAD)	EACH
LT 97+82.00	1
TOTAL	1

28100107 STONE RIPRAP, CLASS A4

CH 27 (LINCOLN MEMORIAL PKWY)	SQ YD
CL 19+50.00	30
TOTAL	30

28200200 FILTER FABRIC

CH 27 (DAMERY ROAD)	SQ YD
CL 100+00.00	404
CH 27 (LINCOLN MEMORIAL PKWY)	
CL 19+50.00	30
TOTAL	434

35101400 AGGREGATE BASE COURSE, TYPE B

CH 27 (DAMERY ROAD)	TON
CL 94+45.00 TO CL 95+10.50	68
CL 95+10.50 TO CL 95+77.50	71 *
CL 95+77.50 TO CL 99+65.00	407
CL 100+35.0 TO CL 104+60.00	439
CH 27 (LINCOLN MEMORIAL PKWY)	
CL 17+65.00 TO CL 19+90.00	279
*INDICATES STR FUNDING	TOTAL 1,264

40300200 BITUMINOUS MATERIALS (PRIME COAT)

CH 27 (DAMERY ROAD)	TON
CL 94+45.00 TO CL 95+10.50	0.1
CL 95+10.50 TO CL 95+77.50	0.2 *
CL 95+77.50 TO CL 99+65.00	1.1
CL 100+35.0 TO CL 104+60.00	1.1
CH 27 (LINCOLN MEMORIAL PKWY)	
CL 17+65.00 TO CL 19+89.00	0.7
*INDICATES STR FUNDING	TOTAL 3

40300400 BITUMINOUS MATERIALS (COVER AND SEAL COATS)

CH 27 (DAMERY ROAD)	TON
CL 94+45.00 TO CL 95+10.50	0.5
CL 95+10.50 TO CL 95+77.50	0.6 *
CL 95+77.50 TO CL 99+65.00	3.2
CL 100+35.0 TO CL 104+60.00	3.4
CH 27 (LINCOLN MEMORIAL PKWY)	
CL 17+65.00 TO CL 19+89.00	2.1
*INDICATES STR FUNDING	TOTAL 10

40300500 COVER COAT AGGREGATE

CH 27 (DAMERY ROAD)	TON
CL 94+45.00 TO CL 95+10.50	3.6
CL 95+10.50 TO CL 95+77.50	3.8 *
CL 95+77.50 TO CL 99+65.00	21.8
CL 100+35.0 TO CL 104+60.00	23.5
CH 27 (LINCOLN MEMORIAL PKWY)	
CL 17+65.00 TO CL 19+89.00	14.5
*INDICATES STR FUNDING	TOTAL 67

design firm
no. 184001036



USER NAME = *OPERATOR*	DESIGNED - BJJ	REVISED
FILE NAME = *FILES*	CHECKED - RKA	REVISED
PLOT SCALE = *SCALE*	DRAWN - GSJ	REVISED
PLOT DATE = *DATE*	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: NTS

SHEET NO. 1 OF 2 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	8
CONTRACT NO. 95874				

ILLINOIS FED. AID PROJECT

40300600 SEAL COAT AGGREGATE

CH 27 (DAMERY ROAD)	TON
CL 94+45.00 TO CL 95+10.50	1.8
CL 95+10.50 TO CL 95+77.50	1.9
CL 95+77.50 TO CL 99+65.00	10.9
CL 100+35.0 TO CL 104+60.00	11.7
CH 27 (LINCOLN MEMORIAL PKWY)	
CL 17+65.00 TO CL 19+89.00	7.3
•INDICATES STR FUNDING	TOTAL 34

44000100 PAVEMENT REMOVAL

CH 27 (DAMERY ROAD)	SQ YD
CL 94+45.00 TO CL 95+77.50	138
CL 95+10.50 TO CL 97+55.00	80
CL 95+77.50 TO CL 104+60.00	381
CL 103+90.0 TO CL 0+00.00	130
CH 27 (LINCOLN MEMORIAL PKWY)	
CL 17+65.00 TO CL 18+52.00	194
CL 19+30.00 TO CL 19+68.50	102
•INDICATES STR FUNDING	TOTAL 1,025

48101200 AGGREGATE SHOULDERS, TYPE B

CH 27 (DAMERY ROAD)	TON
RT 94+45.00 TO RT 95+10.50	6.6
RT 95+10.50 TO RT 95+77.50	6.8
RT 95+77.50 TO RT 99+65.00	75.6
RT 100+35.0 TO RT 104+60.00	41.1
LT 94+45.00 TO LT 95+10.50	6.6
LT 95+10.50 TO LT 95+77.50	6.8
LT 95+77.50 TO LT 99+65.00	52.6
LT 100+35.0 TO LT 104+60.00	79.4
CH 27 (LINCOLN MEMORIAL PKWY)	
RT 17+65.00 TO RT 19+90.00	22.8
LT 17+65.00 TO LT 19+90.00	24.8
•INDICATES STR FUNDING	TOTAL 323

50100300 REMOVAL OF EXISTING STRUCTURES NO. 1

CH 27 (DAMERY ROAD)	EACH
CL 95+45.00	1
TOTAL	1

50100400 REMOVAL OF EXISTING STRUCTURES NO. 2

CH 27 (DAMERY ROAD)	EACH
CL 100+00.00	1
TOTAL	1

50100500 REMOVAL OF EXISTING STRUCTURES NO. 3

CH 27 (LINCOLN MEMORIAL PKWY)	EACH
CL 19+50.00	1
TOTAL	1

50105220 PIPE CULVERT REMOVAL

CH 27 (DAMERY ROAD)	FOOT
LT 99+75.00	32
TOTAL	32

54001001 BOX CULVERT END SECTIONS, CULVERT NO. 1

CH 27 (LINCOLN MEMORIAL PKWY)	EACH
RT/LT 19+50.00	2
TOTAL	2

54010904 PRECAST CONCRETE BOX CULVERTS 9' X 4'

CH 27 (LINCOLN MEMORIAL PKWY)	FOOT
CL 19+50.00	48
TOTAL	48

54262730 METAL FLARED END SECTIONS 30"

CH 27 (DAMERY ROAD)	EACH
LT 98+00.00	2
TOTAL	2

542D0235 PIPE CULVERTS, CLASS D, TYPE 1 30"

CH 27 (DAMERY ROAD)	FOOT
LT 98+00.00	48
TOTAL	48

59100100 GEOCOMPOSITE WALL DRAIN

CH 27 (LINCOLN MEMORIAL PKWY)	SQ YD
CL 19+50.00	64
TOTAL	64

63100087 TRAFFIC BARRIER TERMINAL, TYPE 6A

CH 27 (DAMERY ROAD)	EACH
TOTAL	2

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

CH 27 (DAMERY ROAD)	EACH
RT 98+67.50 TO RT 99+17.50	1
LT 100+82.5 TO LT 101+32.50	1
TOTAL	2

67100100 MOBILIZATION

CH 27 (DAMERY ROAD)	L SUM
TOTAL	1

72501000 TERMINAL MARKER - DIRECT APPLIED

CH 27 (DAMERY ROAD)	EACH
TOTAL	4

X0900064 MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES

CH 27 (LINCOLN MEMORIAL PKWY)	SQ YD
CL 19+50.00	84
TOTAL	84

X2501000 SEEDING, CLASS 2 (SPECIAL)

CH 27 (DAMERY ROAD)	ACRE
NE QUAD	0.4
NW QUAD	0.2
SE QUAD	0.2
SW QUAD	0.5
TOTAL	1.3

X7011800 TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21

CH 27	L SUM
TOTAL	1

Z0054400 ROCK FILL

CH 27 (DAMERY ROAD)	CU YD
CL 95+45.00	101
CH 27 (LINCOLN MEMORIAL PKWY)	
CL 19+50.00	78
•INDICATES STR FUNDING	TOTAL 179

Z0075496 CONCRETE RETAINING WALL REMOVAL

CH 27 (DAMERY ROAD)	FOOT
RT 102+18.00	16
TOTAL	16

Z0013798 CONSTRUCTION LAYOUT

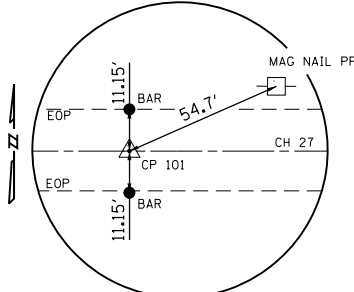
CH 27	L SUM
TOTAL	1

ALIGNMENT COORDINATES (DAMERY RD)			
POINT	STATION	N	E
CL101	92+00.00	1,121,245.279	768,116.735
CL102	110+00.02	1,121,220.144	769,916.581

- LEGEND**
- TO BE REMOVED
 - TEMPORARY DITCH CHECK
 - PAVEMENT REMOVAL
 - RELOCATE
 - INLET PIPE PROTECTION

ELEANOR PISTORIUS FAMILY LTD PARTNERSHIP

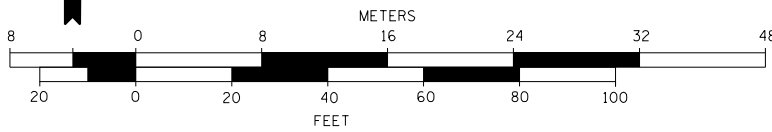
CONTROL POINT #101 (5/8" BAR)



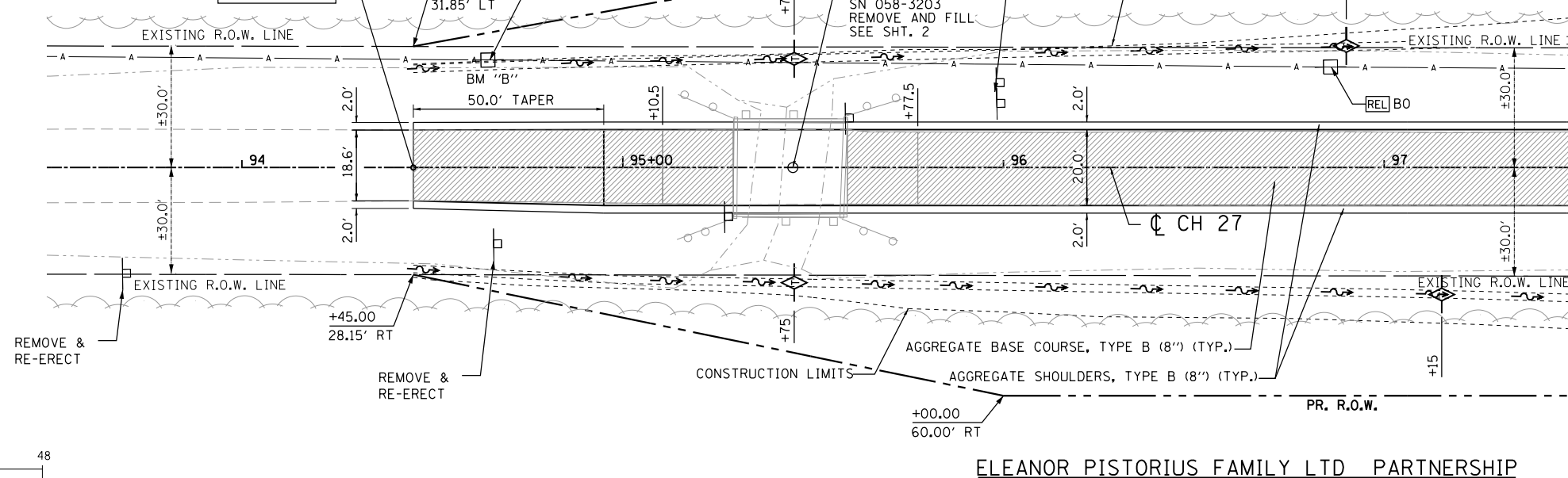
STA. 92+00.00, 0.00' RT
N 1,121,245.279 E 768,116.735



GRAPHIC SCALE



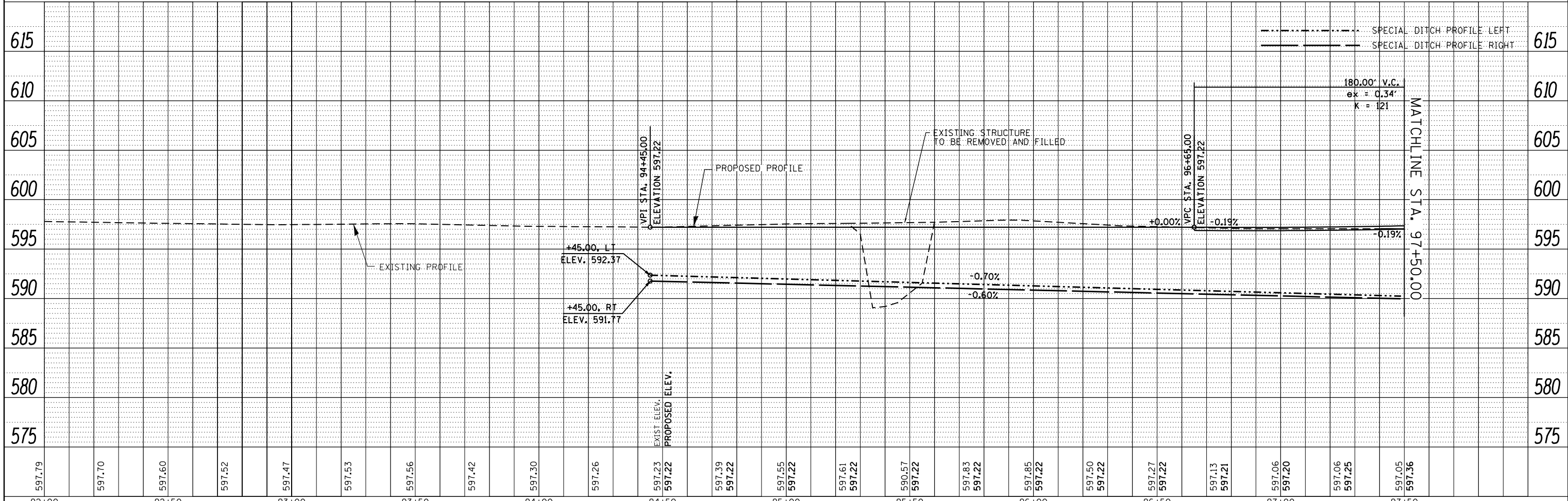
BEGIN PROJECT STA. 94+45.00



MATCHLINE STA. 97+50.00

ELEANOR PISTORIUS FAMILY LTD PARTNERSHIP

BM "B" STA. 94+64.58, 28.3' LT
RR SPIKE IN S. FACE PP APPROX. 70' W OF OVERFLOW BRIDGE
ELEV. 593.99'



MATCHLINE STA. 97+50.00

PLAN	SURVEYED	DATE
NO.		

PROFILE	SURVEYED	DATE
NO.		

design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED - BJJ	REVISED
FILE NAME = P&P-20-1.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 40.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

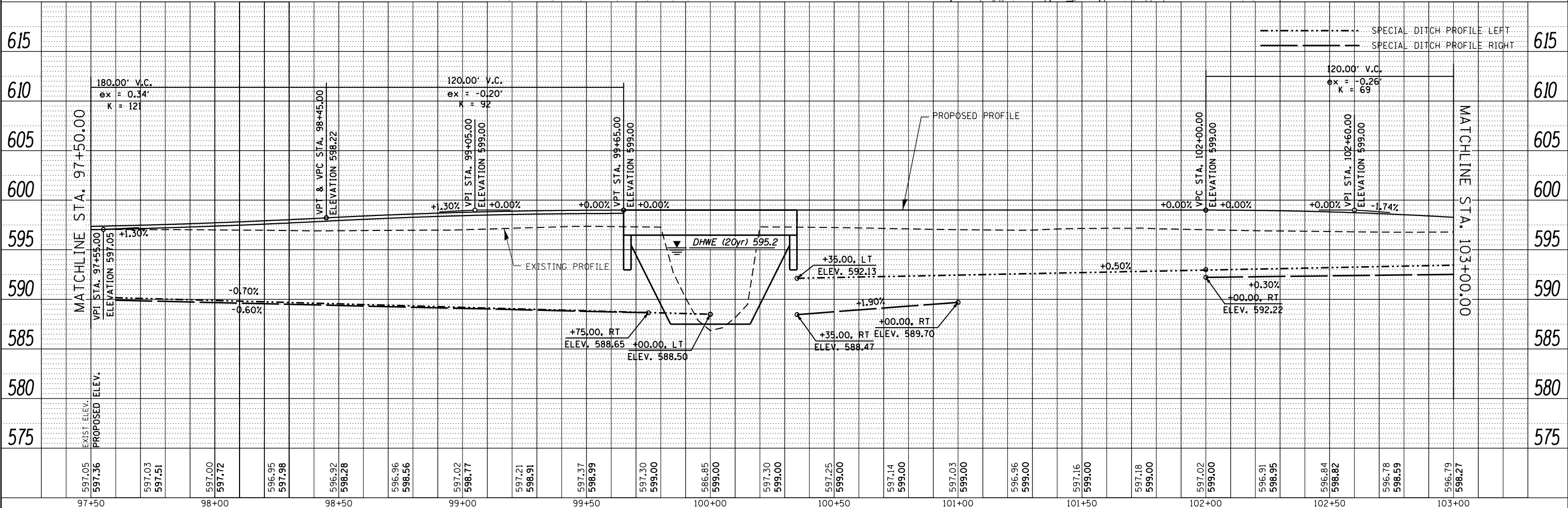
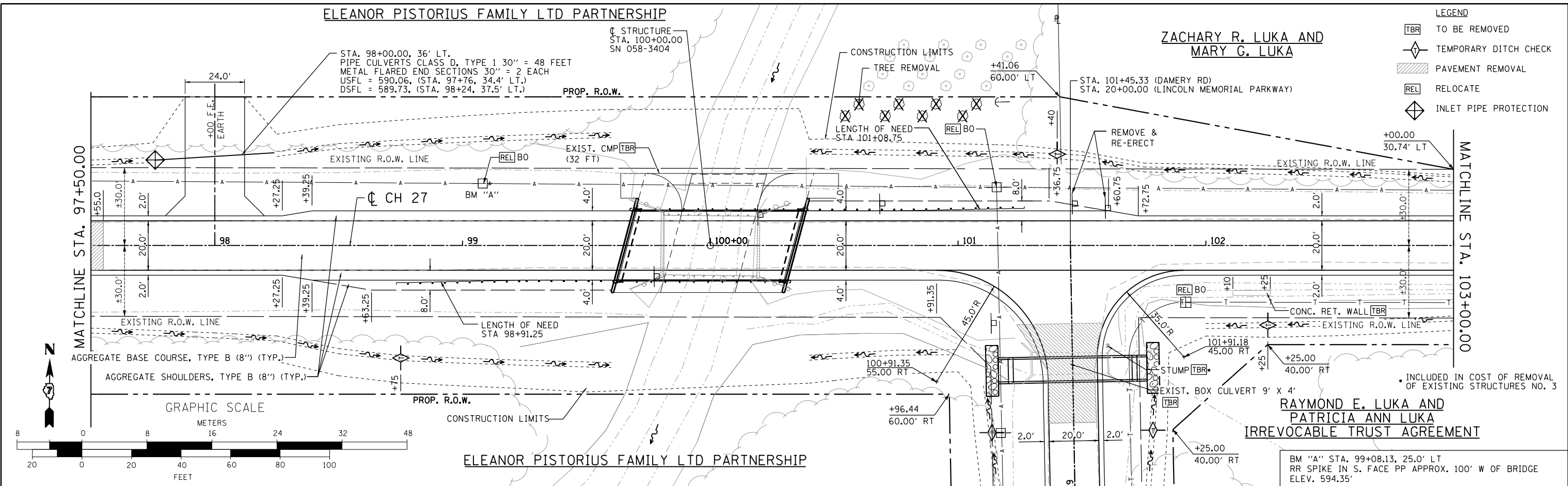
SCALE: 1" = 20' SHEET NO. 1 OF 4 SHEETS STA. 94+45.00 TO STA. 97+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	10

CONTRACT NO. 95874
ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHPND		
	NO.		



Design firm
no. 184001036
whks
engineers + planners + land surveyors

USER NAME = *OPERATOR*	DESIGNED - BJJ	REVISED
FILE NAME = *FILES*	CHECKED - RKA	REVISED
PLOT SCALE = *SCALE*	DRAWN - GSJ	REVISED
PLOT DATE = *DATE*	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH
SCALE: 1" = 20' SHEET NO. 2 OF 4 SHEETS STA. 97+50.00 TO STA. 103+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	11
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

LEGEND

TBR	TO BE REMOVED
◇	TEMPORARY DITCH CHECK
▨	PAVEMENT REMOVAL
REL	RELOCATE
◇	INLET PIPE PROTECTION

ELEANOR PISTORIUS FAMILY LTD PARTNERSHIP

ZACHARY R. LUKA AND
MARY G. LUKA

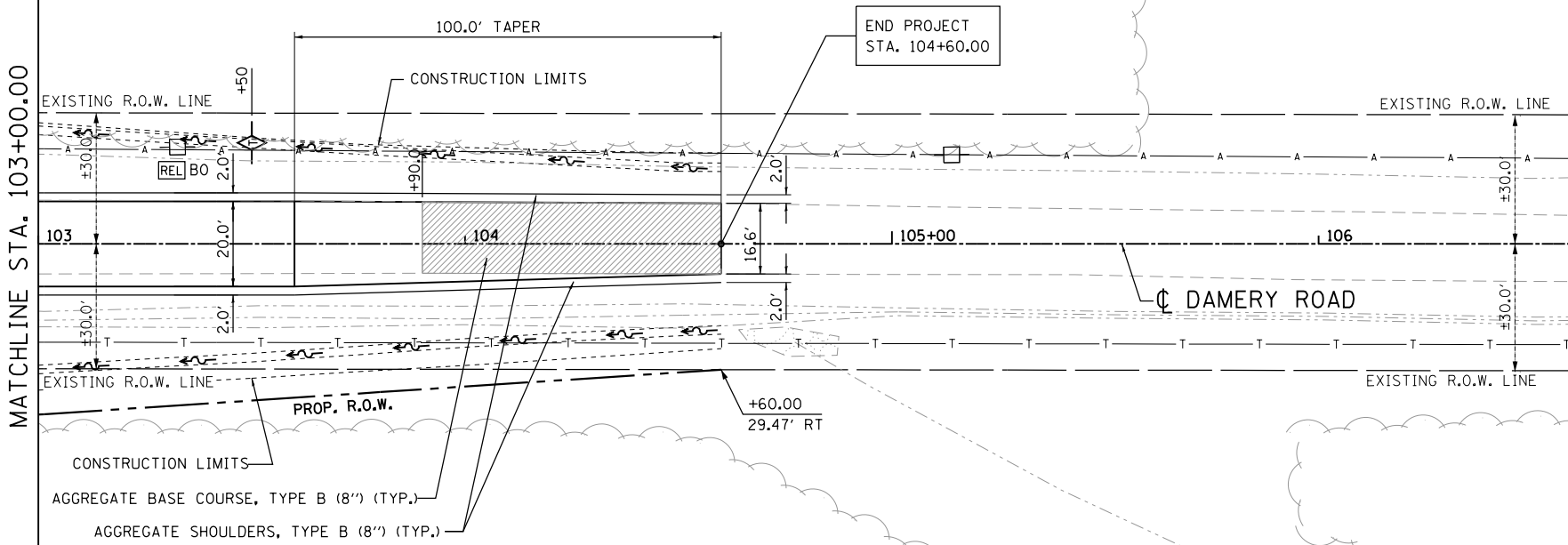
RAYMOND E. LUKA AND
PATRICIA ANN LUKA
IRREVOCABLE TRUST AGREEMENT

ELEANOR PISTORIUS FAMILY LTD PARTNERSHIP

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	CARD FILE NAME	

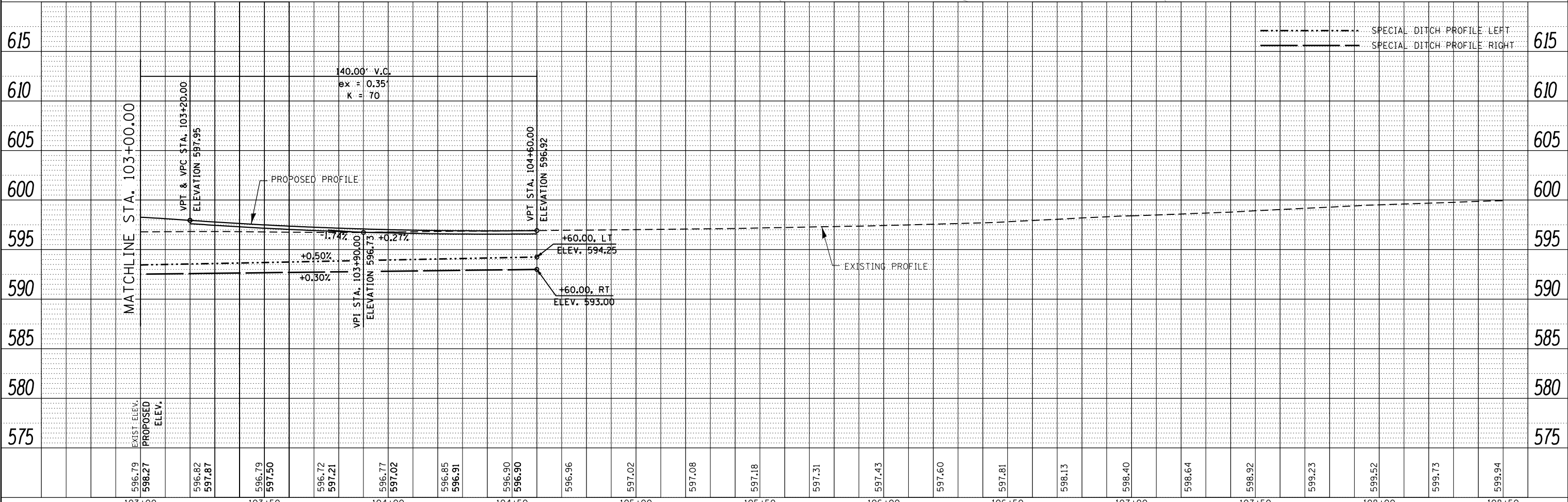
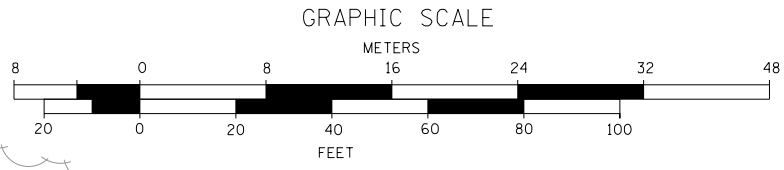
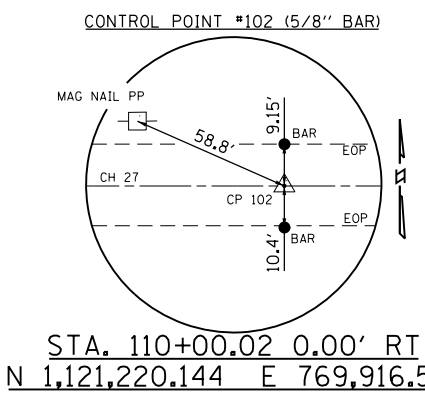
ZACHARY R. LUKA AND
MARY G. LUKA



RAYMOND E. LUKA AND
PATRICIA ANN LUKA
IRREVOCABLE TRUST AGREEMENT

- LEGEND
- TBR TO BE REMOVED
 - TEMPORARY DITCH CHECK
 - PAVEMENT REMOVAL
 - REL RELOCATE
 - INLET PIPE PROTECTION

ALIGNMENT COORDINATES (DAMERY RD)			
POINT	STATION	N	E
CL101	92+00.00	1,121,245.279	768,116.735
CL102	110+00.02	1,121,220.144	769,916.581



596.79	598.27	596.82	597.87	596.79	597.50	596.72	597.21	596.77	597.02	596.85	596.91	596.90	596.90	596.96	597.02	597.08	597.18	597.31	597.43	597.60	597.81	598.13	598.40	598.64	598.92	599.23	599.52	599.73	599.94	
103+00	103+00	103+00	103+00	103+50	103+50	103+50	103+50	104+00	104+00	104+00	104+00	104+50	104+50	104+50	105+00	105+00	105+00	105+00	106+00	106+00	106+00	106+00	107+00	107+00	107+00	107+00	108+00	108+00	108+00	108+50



USER NAME = gjameson	DESIGNED - BJJ	REVISED
FILE NAME = P&P-20-3.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 48.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH
SCALE: 1" = 20'
SHEET NO. 3 OF 4 SHEETS
STA. 103+00.00 TO STA. 104+60.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	12
CONTRACT NO. 95874				

ILLINOIS FED. AID PROJECT

ELEANOR PISTORIUS FAMILY LTD PARTNERSHIP

ALIGNMENT COORDINATES (LINCOLN MEMORIAL PARKWAY)				
POINT	STATION	N	E	
CL201	14+87.18	1, 120, 719.267	769, 064.366	
CL202	20+00.00	1, 121, 232.079	769, 061.973	

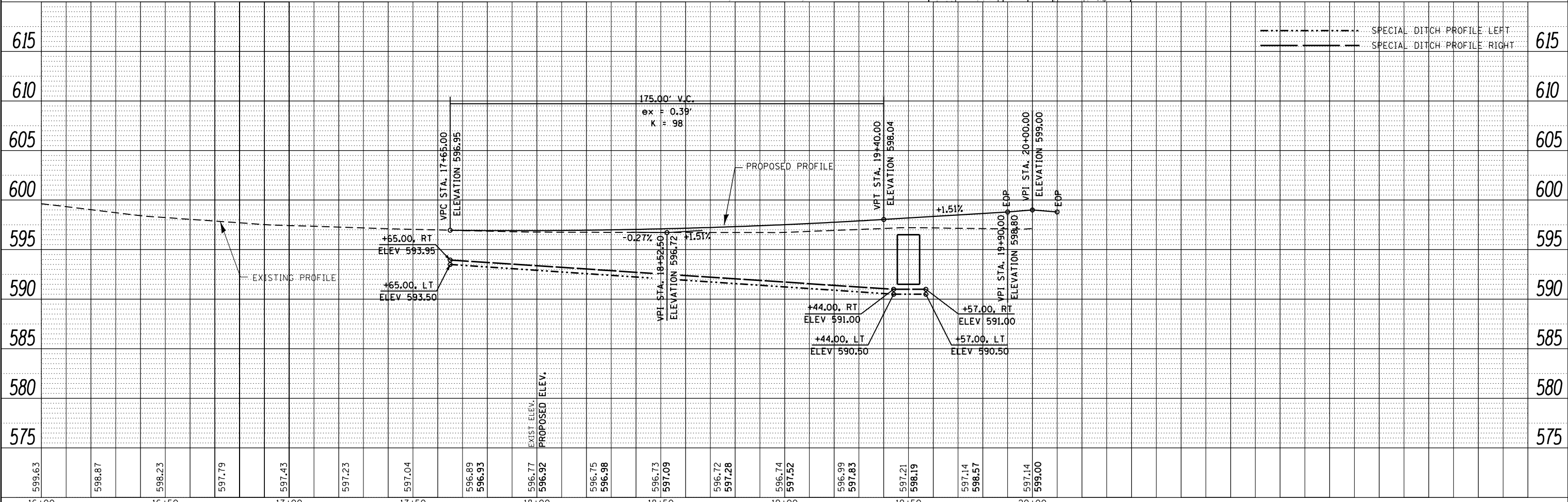
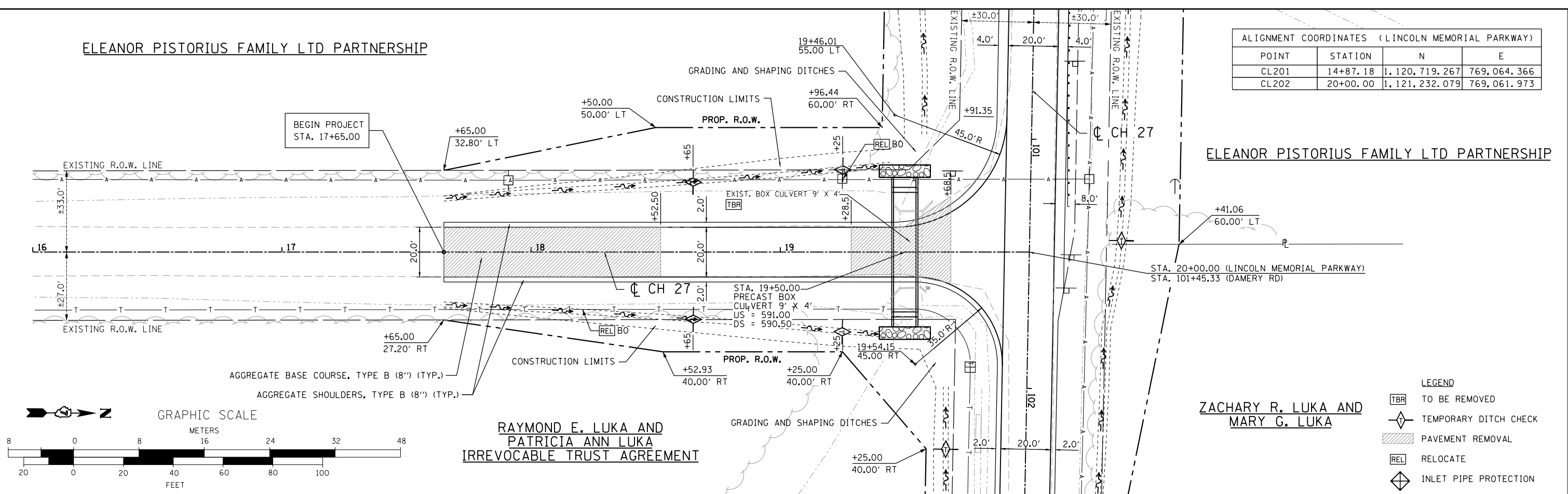
ELEANOR PISTORIUS FAMILY LTD PARTNERSHIP

ZACHARY R. LUKA AND MARY G. LUKA

RAYMOND E. LUKA AND PATRICIA ANN LUKA IRREVOCABLE TRUST AGREEMENT

DATE	
BY	
PLAN	
NO.	
NO.	
NO.	

DATE	
BY	
PROFILE	
NO.	
NO.	
NO.	



Design firm
no. 184001036
whks
engineers + planners + land surveyors

USER NAME = gjameson	DESIGNED - BJJ	REVISED
FILE NAME = P&P-20-4.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 48.000' / 1"	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE (LINCOLN MEMORIAL PARKWAY)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: 1" = 20' SHEET NO. 4 OF 4 SHEETS STA. 17+65.00 TO STA. 20+00.00

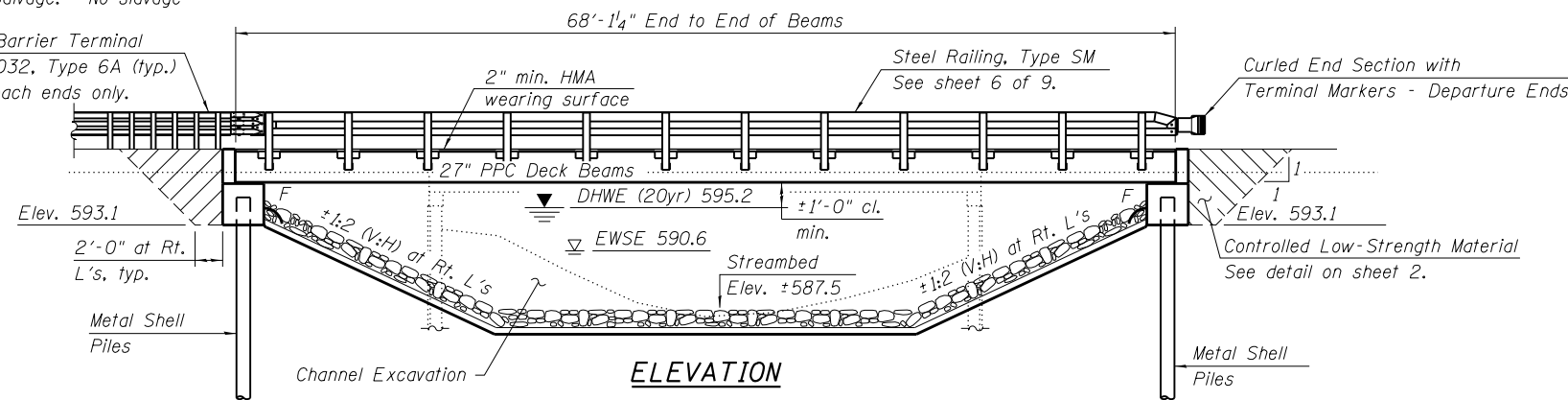
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	13
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

Benchmark: BM "A" RR spike in south face of wood power pole approx. 100' west of project bridge. Elev. 594.35.

Existing Structure: SN 058-3204 is a single span PPC deck beam bridge on closed timber pile abutments. The bridge is ±40'-0" back-to-back of abutments and the out-to-out bridge width is 23'-6". Structure is to be removed and replaced. Road is to be closed during construction.

Salvage: No salvage

Traffic Barrier Terminal
Std. 631032, Type 6A (typ.)
At approach ends only.



PROPOSED PROFILE
(Along C CH 27)

LOADING HL-93
50 psf future wearing surface.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications
7th Edition, with 2015 and 2016 Interims

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

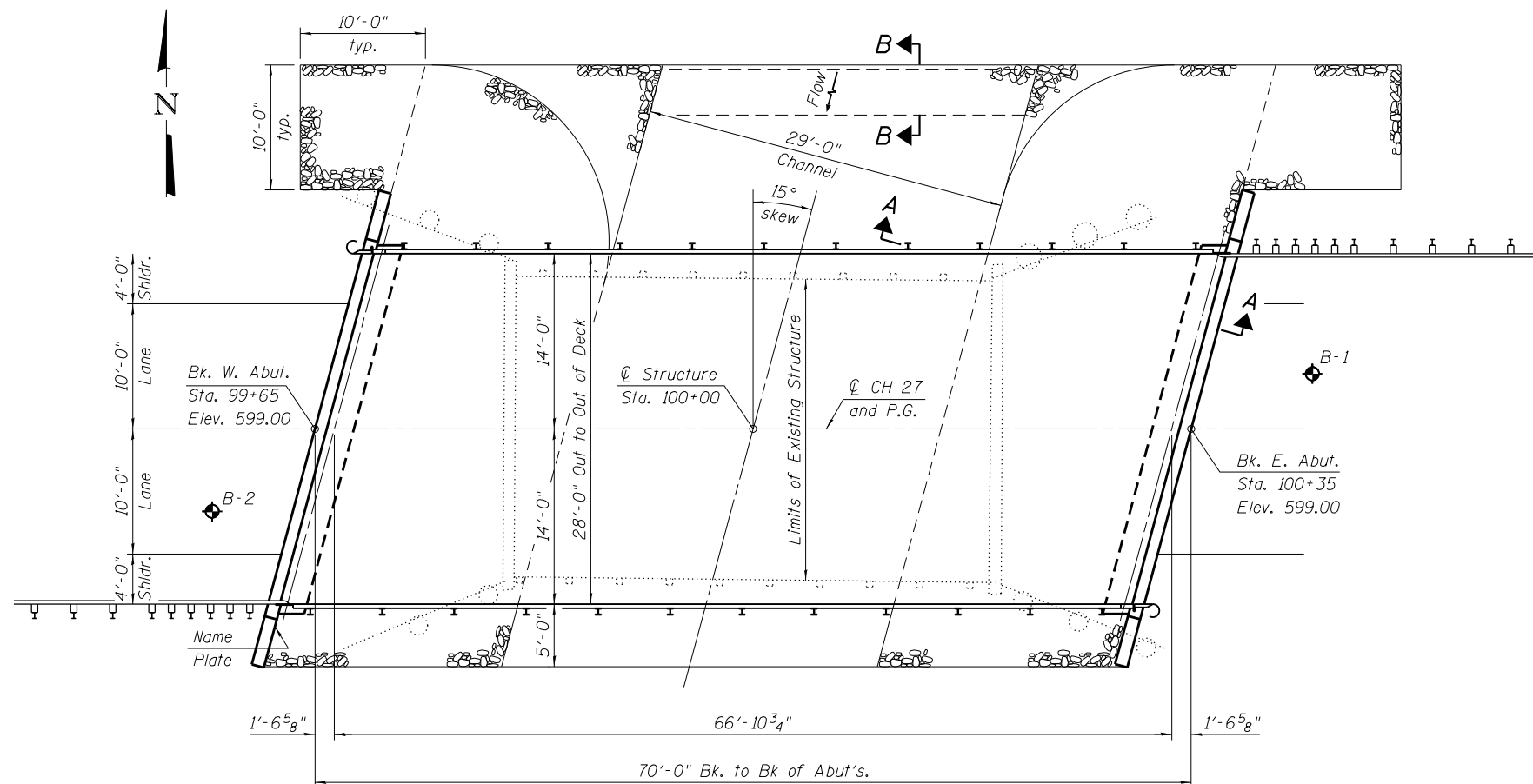
PRECAST UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
f'pu = 270,000 psi (1/2" φ low-lax strands)
f'pbt = 201,960 psi (1/2" φ low-lax strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.159g
Design Spectral Acceleration at 0.2 sec. (SDs) = 0.298g
Soil Site Class = D

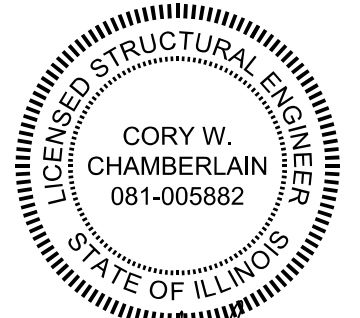
INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
- 3.-4. 27" PPC Deck Beam Details
5. Superstructure Details
6. Steel Railing, Type SM
7. Abutments
8. Metal Shell Pile Details
9. Boring Logs



SPRING CREEK
BUILT 20 BY
MACON COUNTY
SEC. 15-00274-00-BR
F.A. RT. 551 STATION 100+00
STR. NO. 058-3404 LOADING HL93

NAME PLATE
See Std. 515001



Cory W. Chamberlain 3-31-2020
Expires: 11/30/2020

I certify that to the best of knowledge, information and belief, this bridge/box culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.

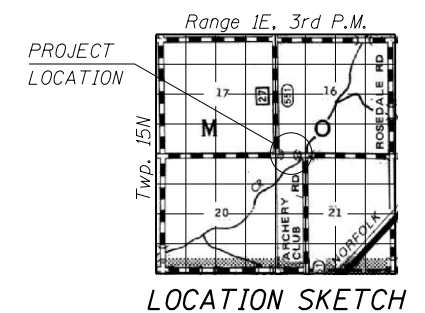
WATERWAY INFORMATION TABLE

Drainage Area = 9.33 sq. mi.
Exist. Low Grade Elev. = 596.72 @ Sta. 103+75
Prop. Low Grade Elev. = 596.90 @ Sta. 104+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	20	1840	205	350	595.2	1.3	1.1	596.5	596.3
Existing Overtop.	35	2165	215	-	595.4	1.3	-	596.7	-
Proposed Overtop.	50	2395	-	370	595.5	-	1.7	-	597.2
Base	100	2750	225	380	595.7	2.1	2.0	597.8	597.7

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elev. (ft.)		Item 113
	W. Abut.	E. Abut.	
Q100	-	-	8
Q200	-	-	
Design	593.1	593.1	
Check	593.1	593.1	



GENERAL PLAN AND ELEVATION
FAS 551 (CH 27) OVER SPRING CREEK
SEC. 15-00274-00-BR
MACON COUNTY
STATION 100+00
STRUCTURE NO. 058-3404 (PROPOSED)
STRUCTURE NO. 058-3204 (EXISTING)



USER NAME = dheberling
FILE NAME = 0583404-00000.dgn
PLOT SCALE = 0.2" = 1'-0"
PLOT DATE = 4/14/2020

DESIGNED - CWC/BJJ
CHECKED - CWC
DRAWN - DLH
CHECKED - SBC/BJJ

REVISED
REVISED
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	14
CONTRACT NO. 95874				

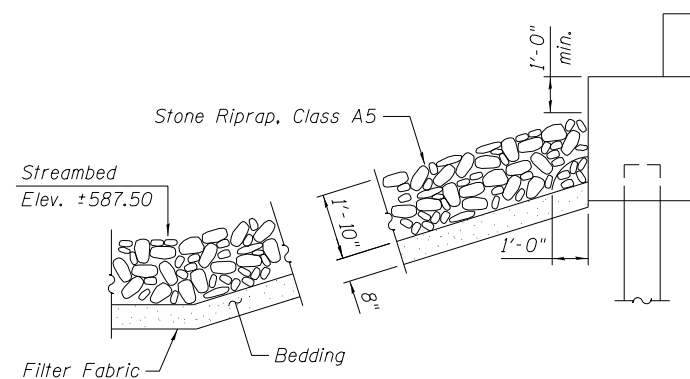
ILLINOIS FED. AID PROJECT

TOTAL BILL OF MATERIAL

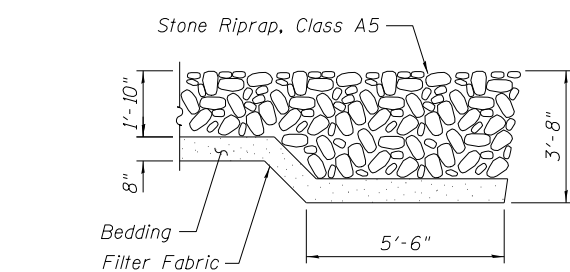
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		420	420
Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N50	Ton	34		34
Stone Riprap, Class A5	Sq. Yd.		404	404
Filter Fabric	Sq. Yd.		404	404
Removal of Existing Structures No. 2	Each	1		1
Structure Excavation	Cu. Yd.		82	82
Concrete Structures	Cu. Yd.		29.8	29.8
Precast Prestressed Concrete Deck Beams (27" depth)	Sq. Ft.	1,907		1,907
Reinforcement Bars, Epoxy Coated	Pound		4,210	4,210
Steel Railing, Type SM	Foot	137		137
Furnishing Metal Shell Piles 12" x 0.250"	Foot		385	385
Driving Piles	Foot		385	385
Test Pile Metal Shells	Each		2	2
Name Plates	Each	1		1
Waterproofing Membrane System	Sq. Yd.	212		212
Controlled Low-Strength Material	Cu. Yd.		60.4	60.4
Portland Cement Mortar Fairing Course	Foot	245		245

GENERAL NOTES

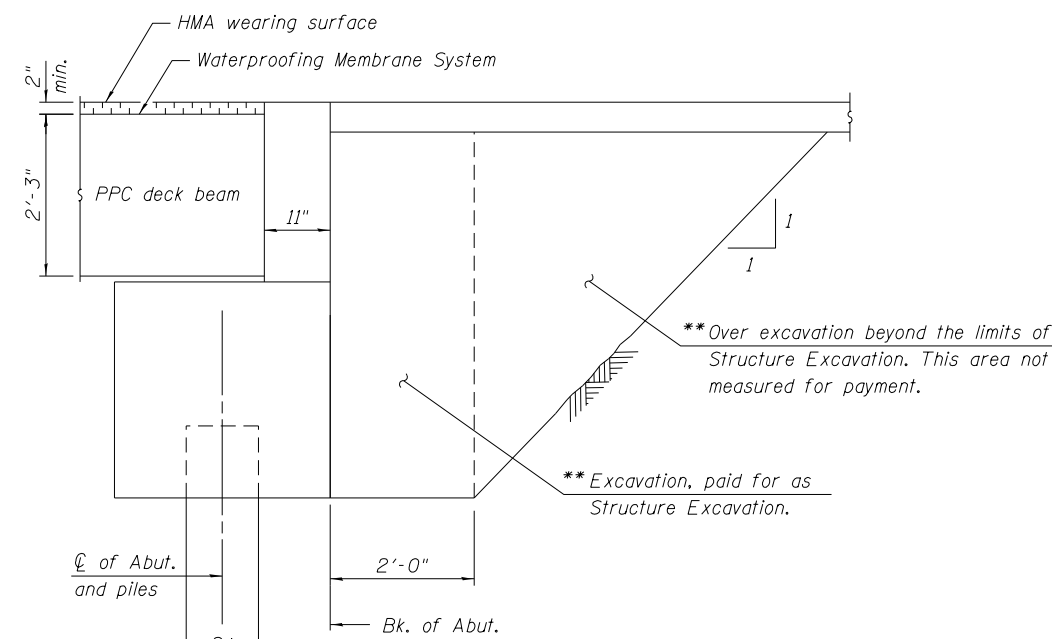
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.



SECTION A-A



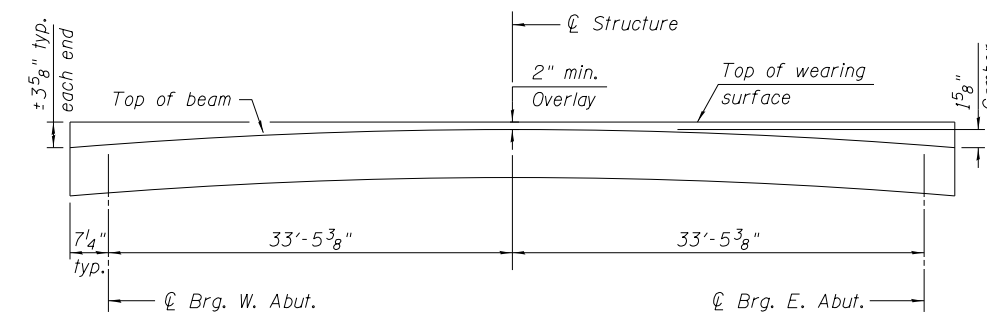
SECTION B-B



TYPICAL ABUTMENT SECTION

(Dimensions are at Rt. L's)

** Backfill with Controlled Low-Strength Material (CLSM) (Mix 2).



HOT-MIX ASPHALT WEARING SURFACE (HMA) PROFILE
(For information only)

design firm
no. 184001036



USER NAME = dheberling
FILE NAME = 0583404-00000.dgn
PLOT SCALE = 0:2 1/4" = 1" in.
PLOT DATE = 3/31/2020

DESIGNED - CWC/BJJ
CHECKED - CWC
DRAWN - DLH
CHECKED - SBC/BJJ

REVISED
REVISED
REVISED
REVISED

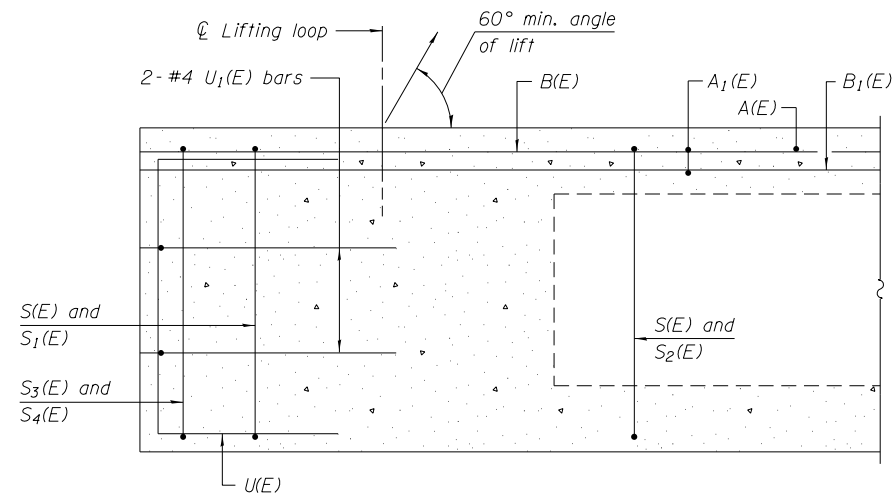
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 058-3404

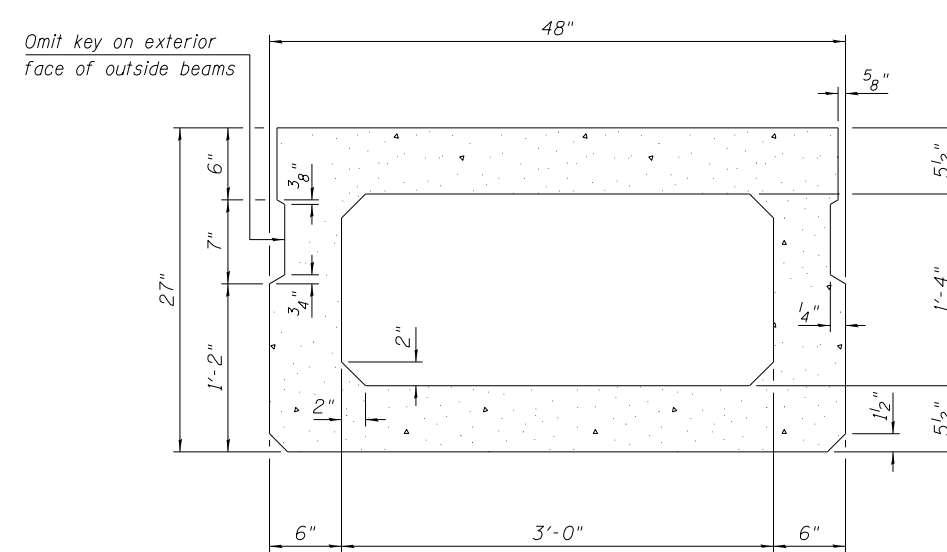
SHEET NO. 2 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	15
			CONTRACT NO. 95874	

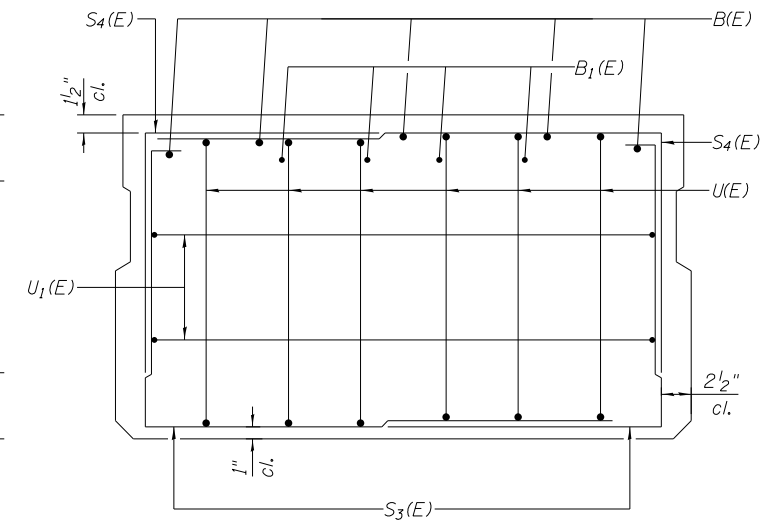
ILLINOIS FED. AID PROJECT



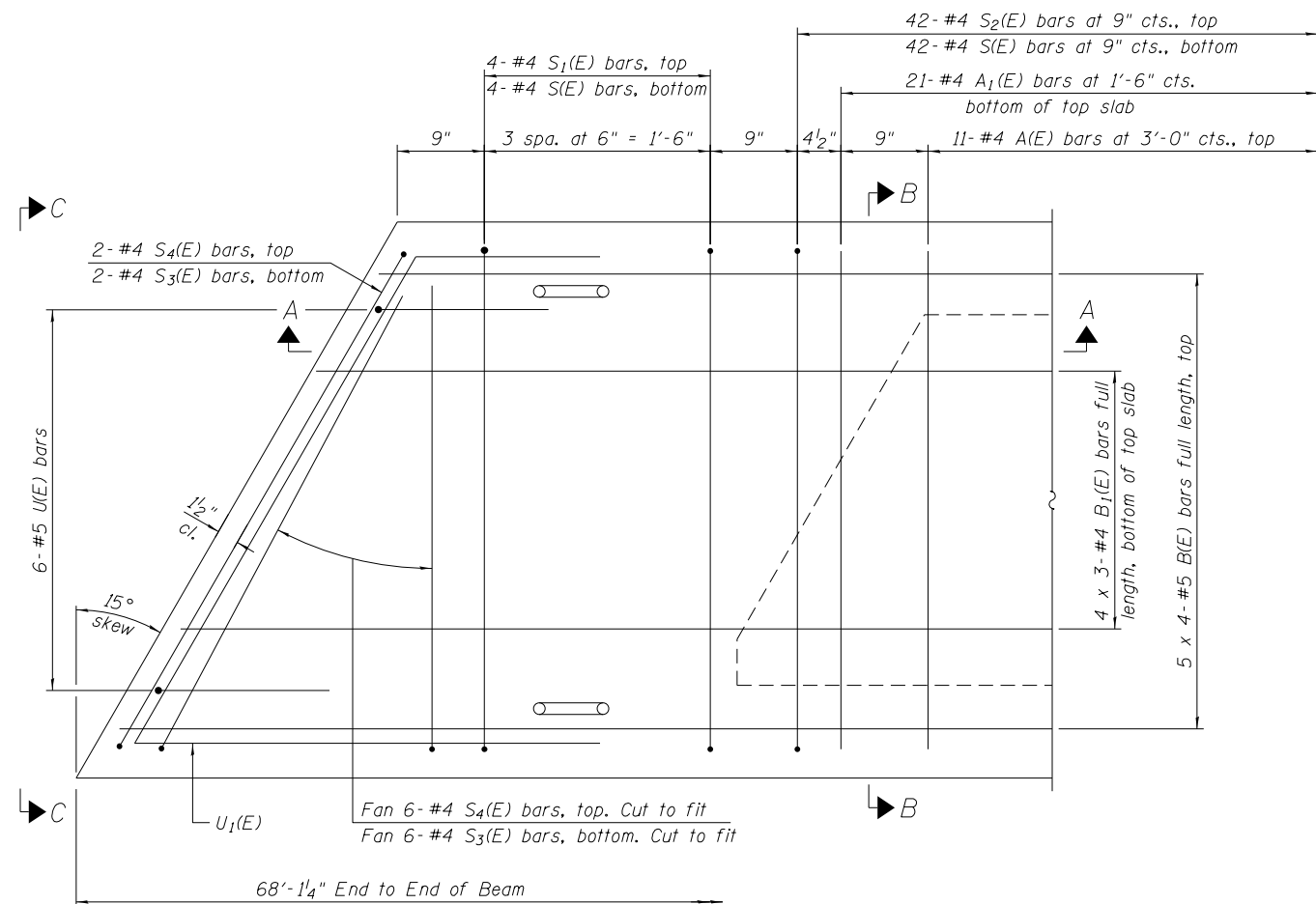
SECTION A-A



SECTION B-B
(Showing dimensions)

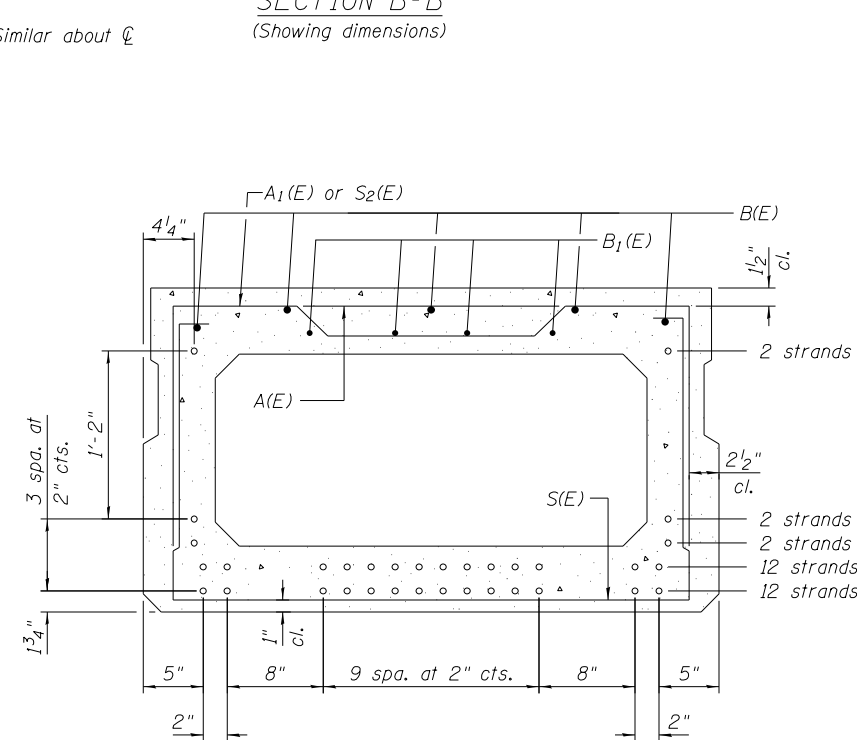


VIEW C-C



PLAN VIEW

Note:
Spacing of S(E) and S₂(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note:
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP

#4 bar = 1'-11"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	21	#4	3'-7"	—
A ₁ (E)	42	#4	3'-10"	—
B(E)	20	#5	18'-10"	—
B ₁ (E)	12	#4	23'-11"	—
S(E)	92	#4	8'-5"	┌
S ₁ (E)	8	#4	5'-11"	┌
S ₂ (E)	84	#4	7'-2"	┌
S ₃ (E)	20	#4	5'-3"	┌
S ₄ (E)	20	#4	4'-6"	┌
U(E)	12	#5	4'-6"	┌
U ₁ (E)	4	#4	7'-1"	┌

- Notes:
1. Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.
 2. See sheet 4 of 9 for additional details and Bill of Material.

PD-2748-L 06-01-16



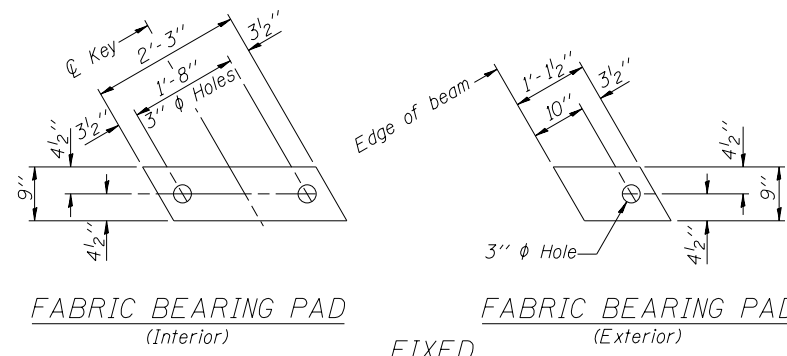
USER NAME = dheberling	DESIGNED - CWC/BJJ	REVISED
FILE NAME = 0583404-00000.dgn	CHECKED - CWC	REVISED
PLOT SCALE = 0:2' = 1" / in.	DRAWN - DLH	REVISED
PLOT DATE = 3/31/2020	CHECKED - SBC/BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

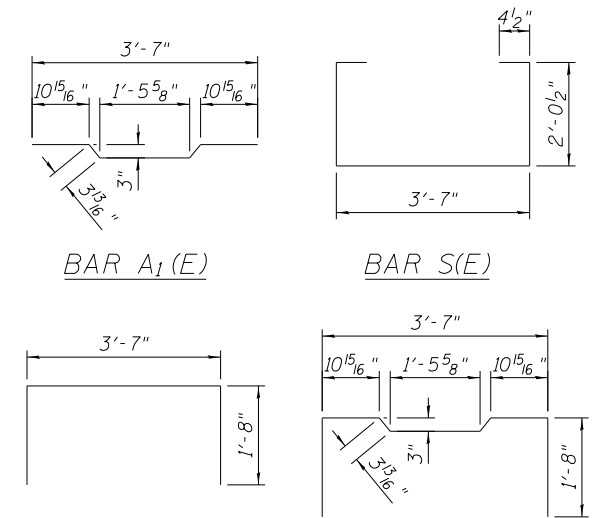
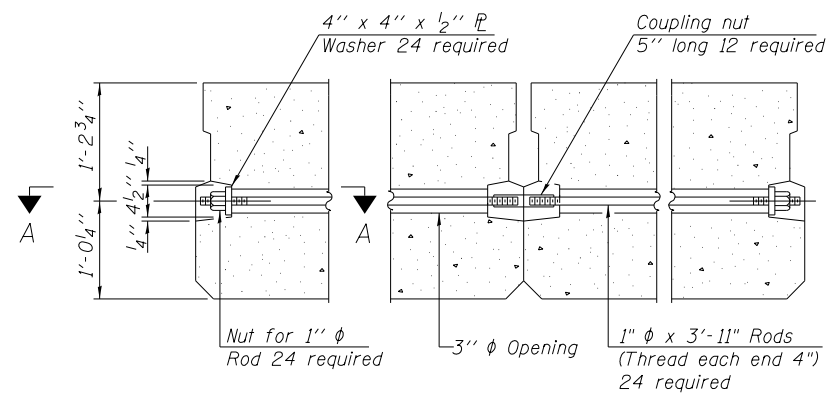
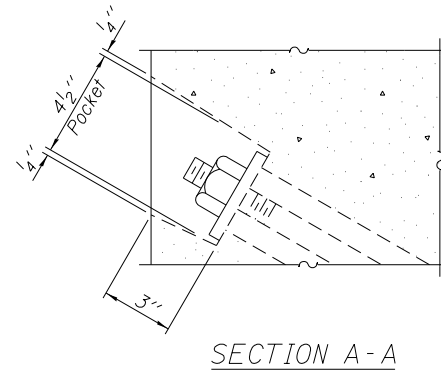
27" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 058-3404

SHEET NO. 3 OF 9 SHEETS

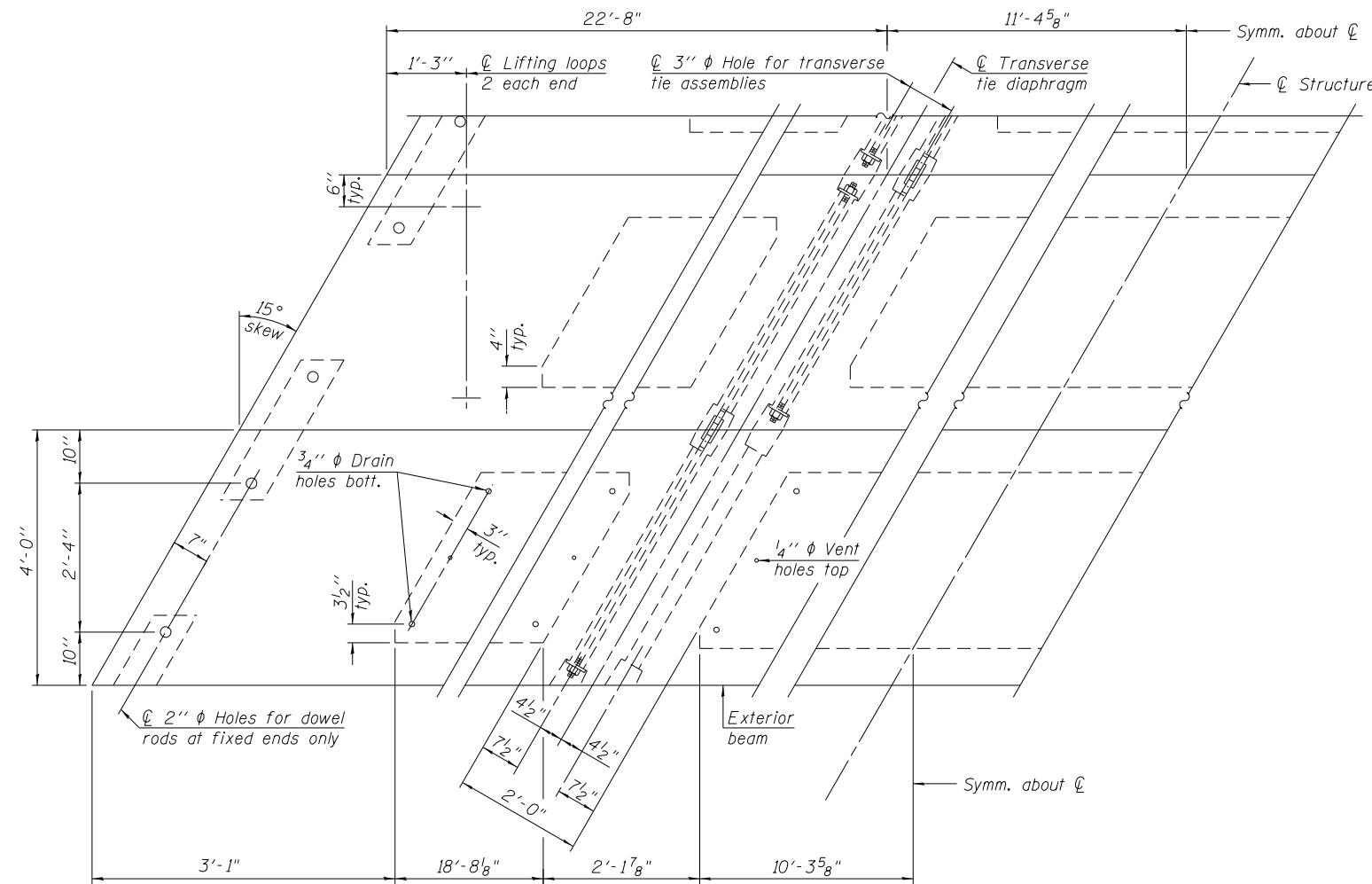
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	16
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				



FIXED



- Notes:
- All bearing pads shall be 1" thick.
 - Omit holes when using expansion bearings.
 - Expansion bearing pad shall be bonded to the substructure.

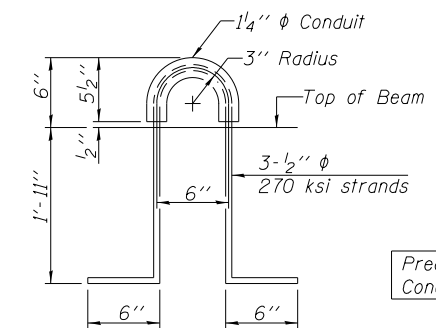


PLAN VIEW

Note:
Connect beams in pairs with the transverse tie configuration shown.

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1,907
---	---------	-------

PD-2748-LD 06-01-16



USER NAME = dheberling	DESIGNED - CWC/BJJ	REVISED
FILE NAME = 0583404-00000.dgn	CHECKED - CWC	REVISED
PLOT SCALE = 0:2" = 1' in.	DRAWN - DLH	REVISED
PLOT DATE = 3/31/2020	CHECKED - SBC/BJJ	REVISED

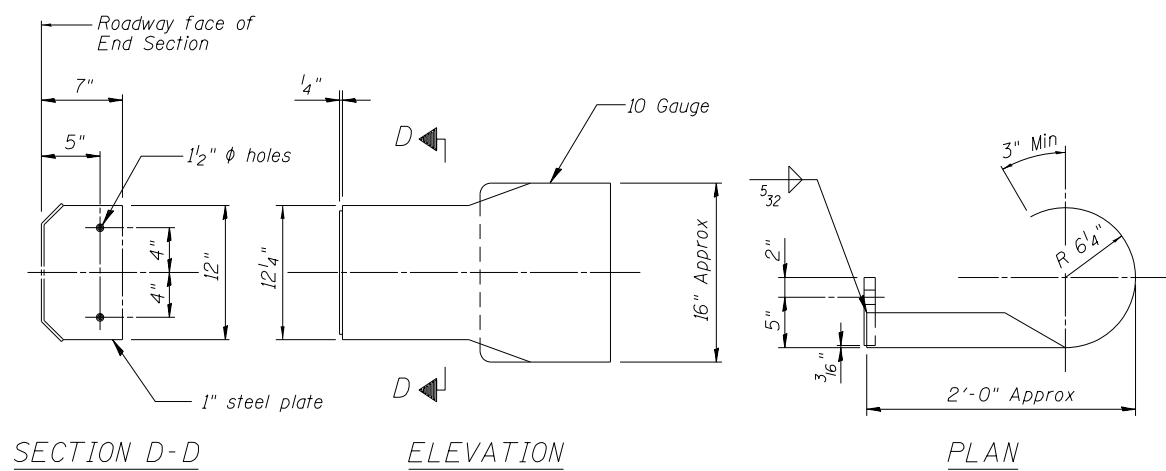
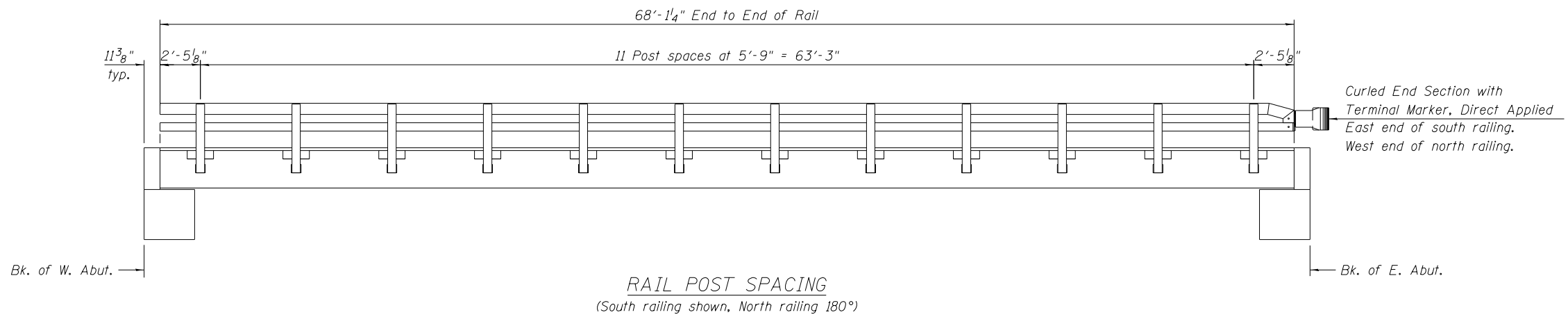
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 058-3404

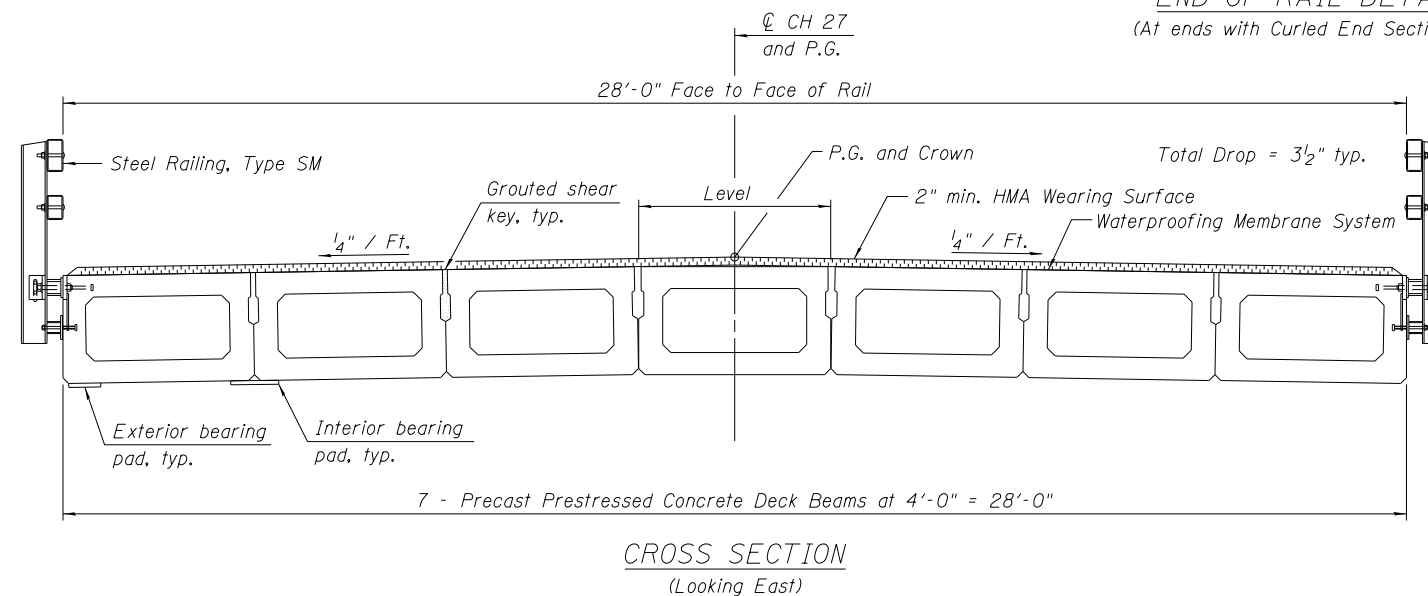
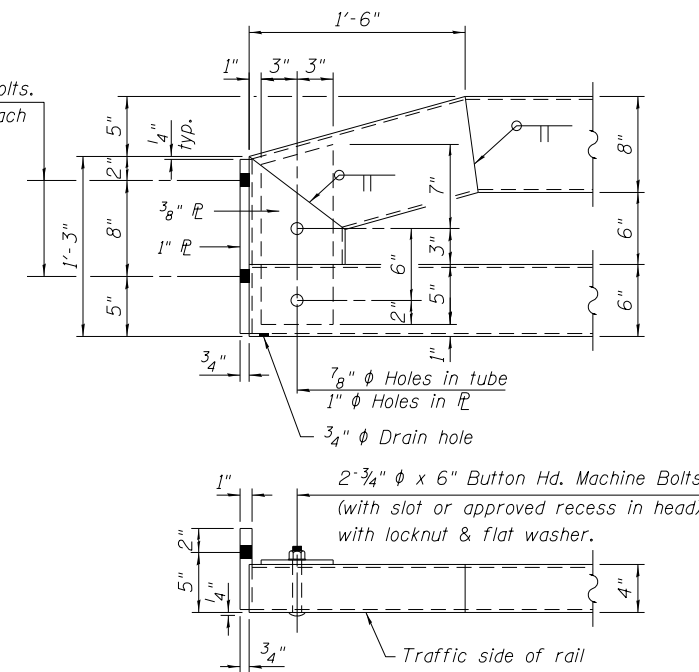
SHEET NO. 4 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	17
CONTRACT NO. 95874				

ILLINOIS FED. AID PROJECT

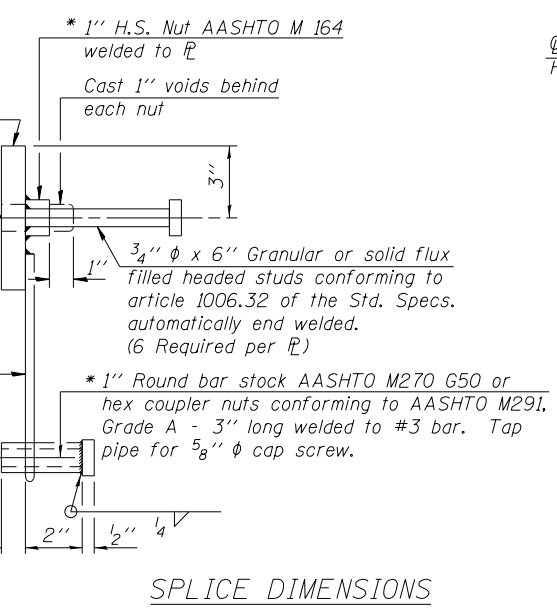
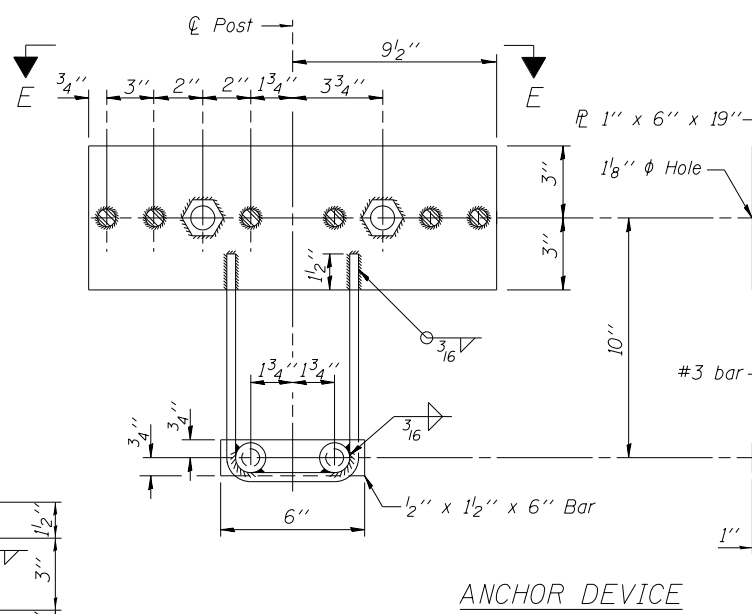
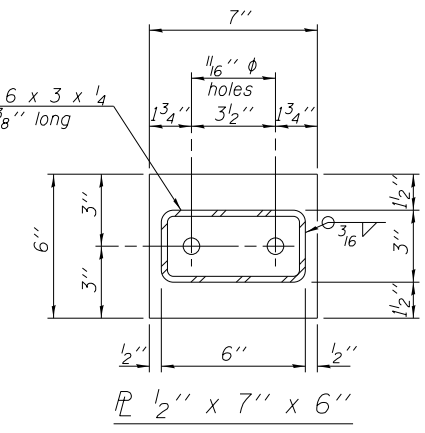
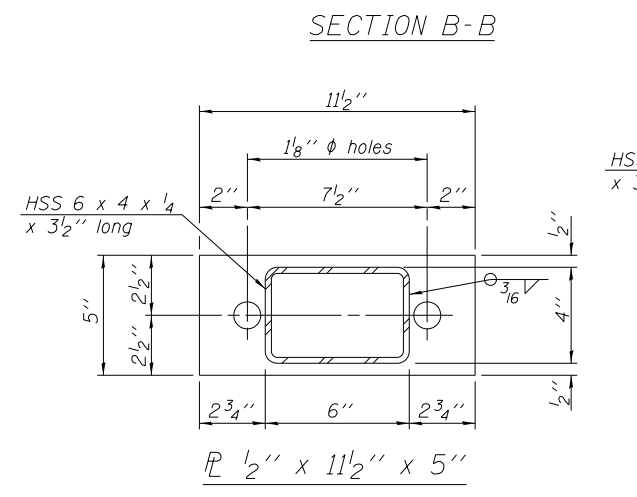
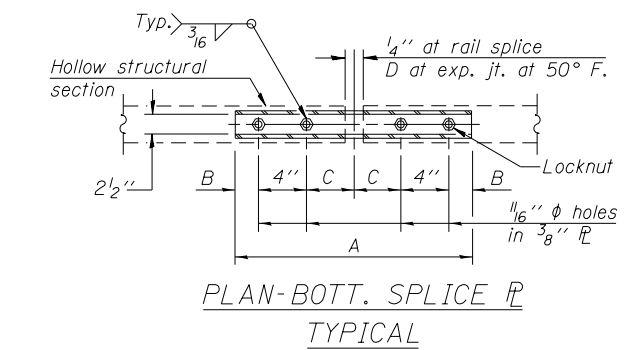
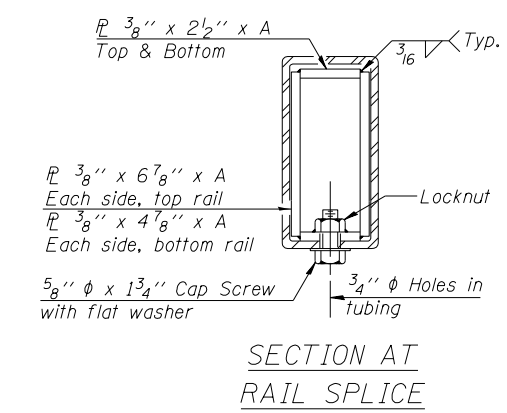
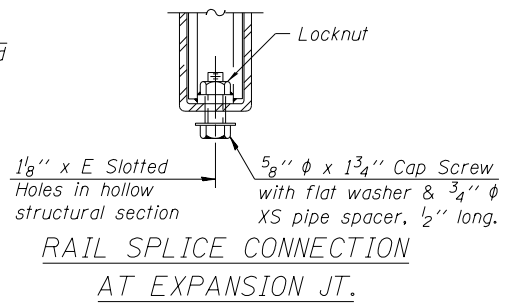
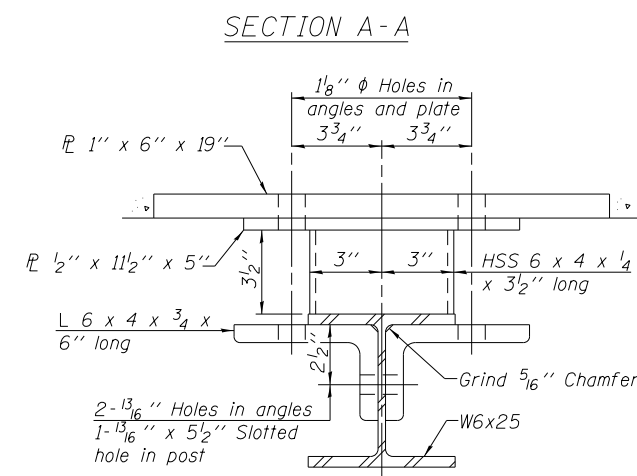
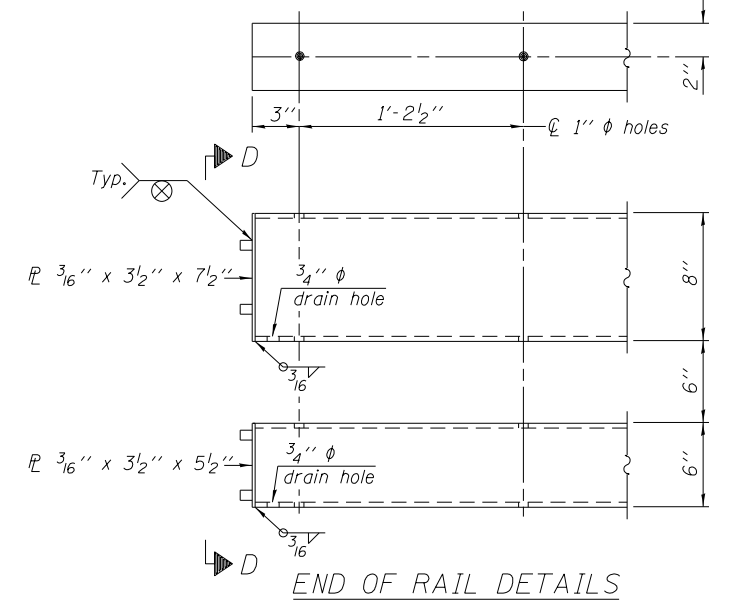
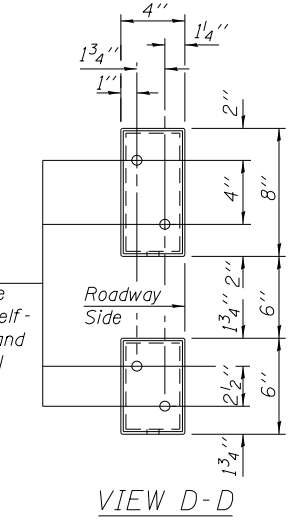
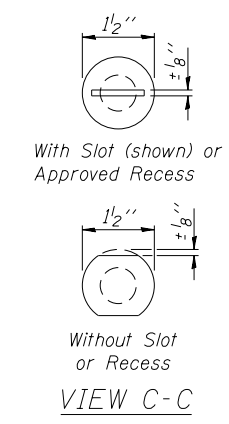
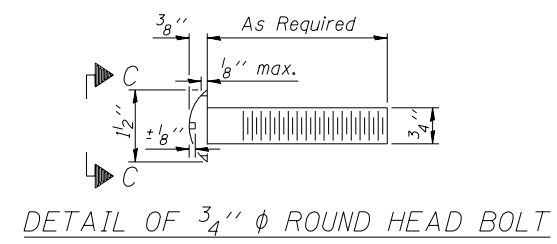
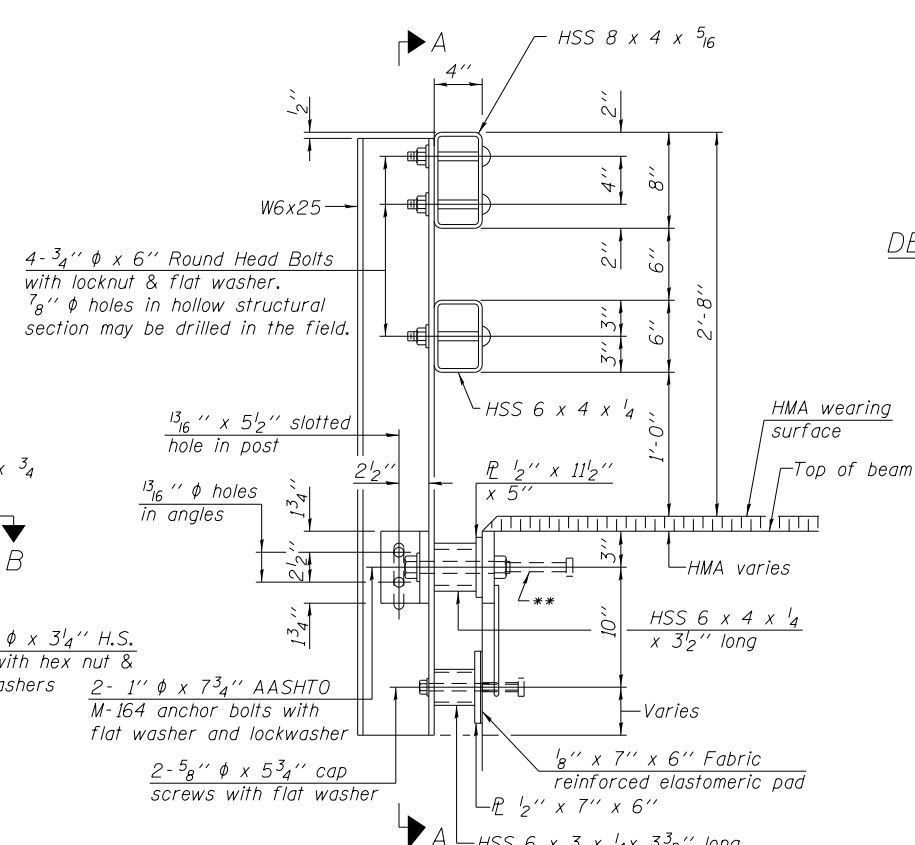
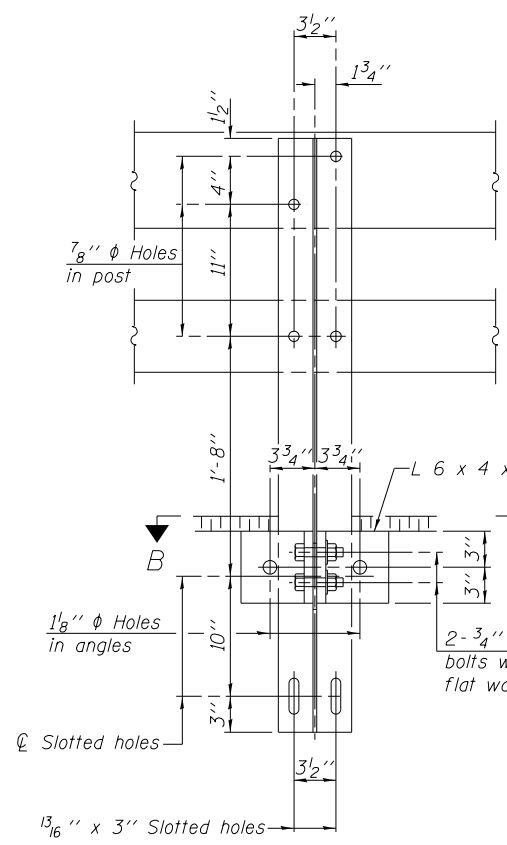


1/8" ϕ Holes for 1" ϕ x 4" Round Head Bolts.
Provide 2 flat washers & locknuts for each end section connection.

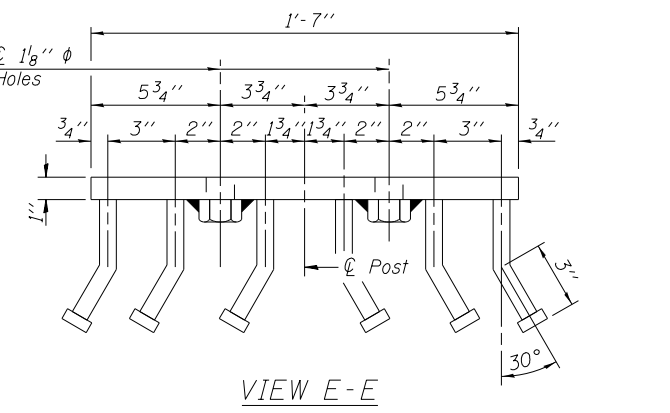


BILL OF MATERIAL

Item	Unit	Total
Hot-Mix Asphalt Surface Course, Mix "C", N50	Ton	33.4
Waterproofing Membrane System	Sq. Yd.	212
Portland Cement Mortar Fairing Course	Foot	245



T	D	A	B	C	E
$\leq 4''$	2 1/2''	1'-8''	2''	4''	2 1/2''
$> 4'' \leq 6 1/2''$	3 3/4''	2'-0''	2 1/2''	5 1/2''	3 1/2''
$> 6 1/2'' \leq 9''$	5''	2'-4''	3 1/2''	6 1/2''	9''
$> 9'' \leq 13''$	7''	2'-10''	4 1/2''	8 1/2''	11''
Rail Splice	1/4''	1'-8''	2''	4''	

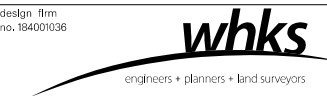


Notes:
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
 ** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	137

R-34HMAWS 11-22-2016 (6'-3" Maximum Post Spacing) (1/4" minimum to 3/8" maximum HMA thickness)

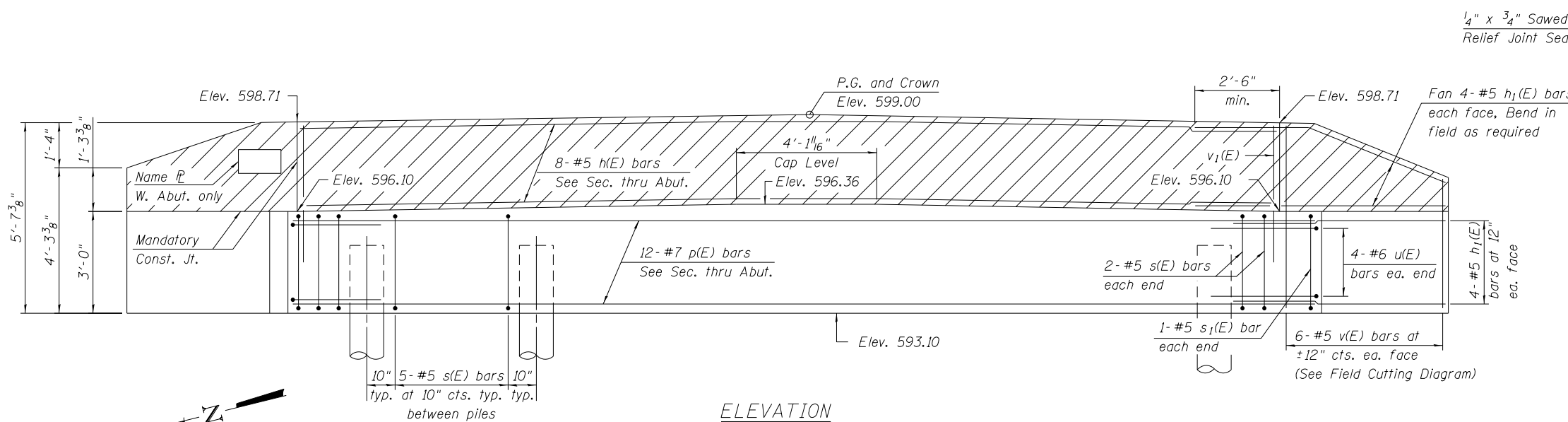


USER NAME = dheber.ling	DESIGNED - CWC/BJJ	REVISED
FILE NAME = 0583404-00000.dgn	CHECKED - CWC	REVISED
PLOT SCALE = 0:2' = 1" = 1/4"	DRAWN - DLH	REVISED
PLOT DATE = 3/31/2020	CHECKED - SBC/BJJ	REVISED

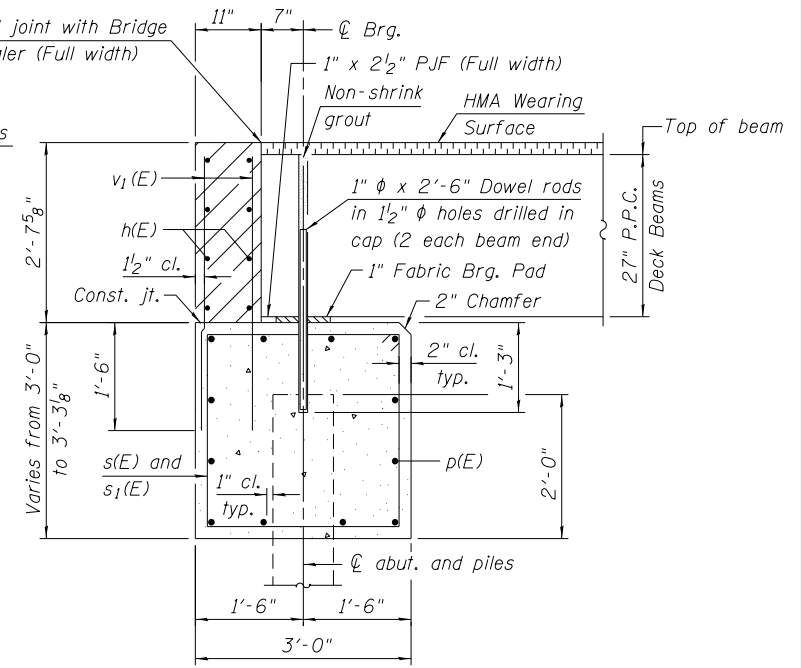
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE
 STRUCTURE NO. 058-3404

F.A.S. RTE. 551	SECTION 15-00274-00-BR	COUNTY MACON	TOTAL SHEETS 51	SHEET NO. 19
				CONTRACT NO. 95874



ELEVATION

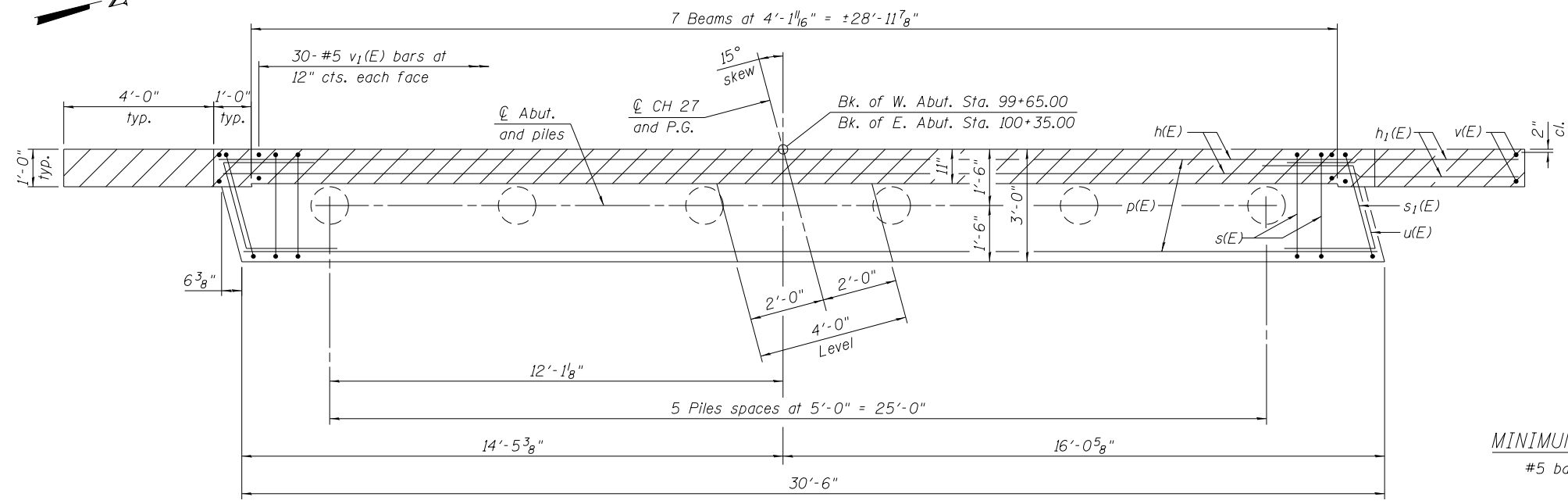
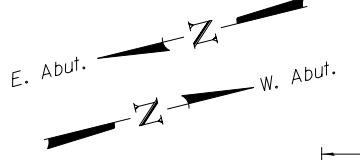


SECTION THRU ABUTMENT

(Dimensions are at Rt. L's)
See sheet 4 of 9 for Fabric Bearing Pad details.

BILL OF MATERIAL
TWO ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	32	#5	16'-8"	
h1(E)	64	#5	7'-6"	
p(E)	24	#7	30'-2"	
s(E)	58	#5	11'-7"	□
s1(E)	4	#5	11'-9"	□
u(E)	16	#6	7'-7"	▤
v(E)	24	#5	9'-3"	
v1(E)	120	#5	4'-0"	
Structure Excavation		Cu. Yd.	82	
Concrete Structures		Cu. Yd.	29.8	
Reinforcement Bars, Epoxy Coated		Pound	4,210	
Furnishing Metal Shell Piles 12" x 0.250"		Foot	385	
Driving Piles		Foot	385	
Test Pile		Each	2	



PLAN

MINIMUM BAR LAP
#5 bar = 3'-2"

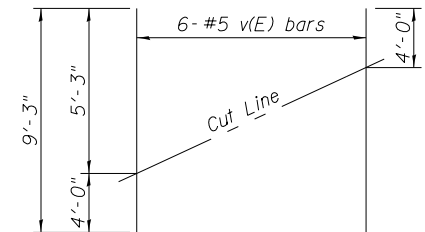
WEST ABUT. PILE DATA

Type: Metal Shell 12" φ x 0.250"
Nominal Required Bearing: 371 kips
Factored Resistance Available: 222 kips
Est. Length: 41 ft.
No. Production Piles: 5
No. Test Piles: 1

EAST ABUT. PILE DATA

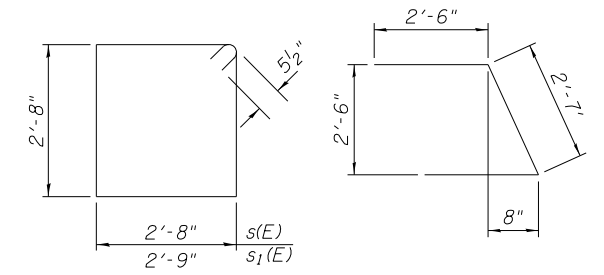
Type: Metal Shell 12" φ x 0.250"
Nominal Required Bearing: 303 kips
Factored Resistance Available: 182 kips
Est. Length: 36 ft.
No. Production Piles: 5
No. Test Piles: 1

- Notes:
- The hatched area shall be poured after the beams are in place. The backwall shall be cast against the beams.
 - Dowel holes in beams shall be filled with non-shrink grout to the top of the beam and allowed to cure for a minimum of 24 hours prior to grouting the keyways. Cost included with Precast Prestressed Concrete Deck Beams (27" Depth).
 - If pile interferes with dowel embedment, reduce dowel embedment at location of interference to 1'-0".
 - For details of piles, see sheet 8 of 9.



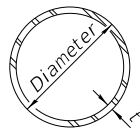
FIELD CUTTING DIAGRAM

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



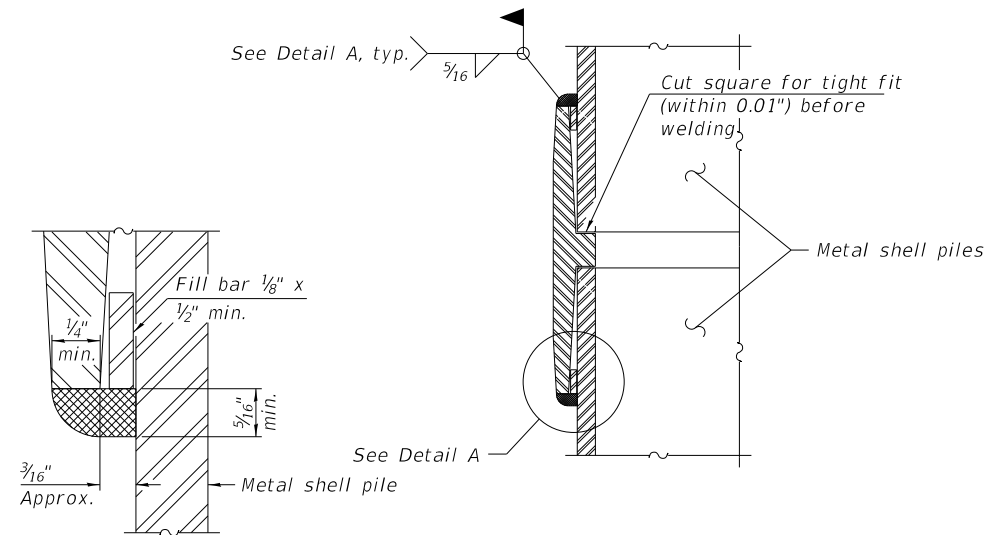
BARS s(E) & s1(E)

BAR u(E)

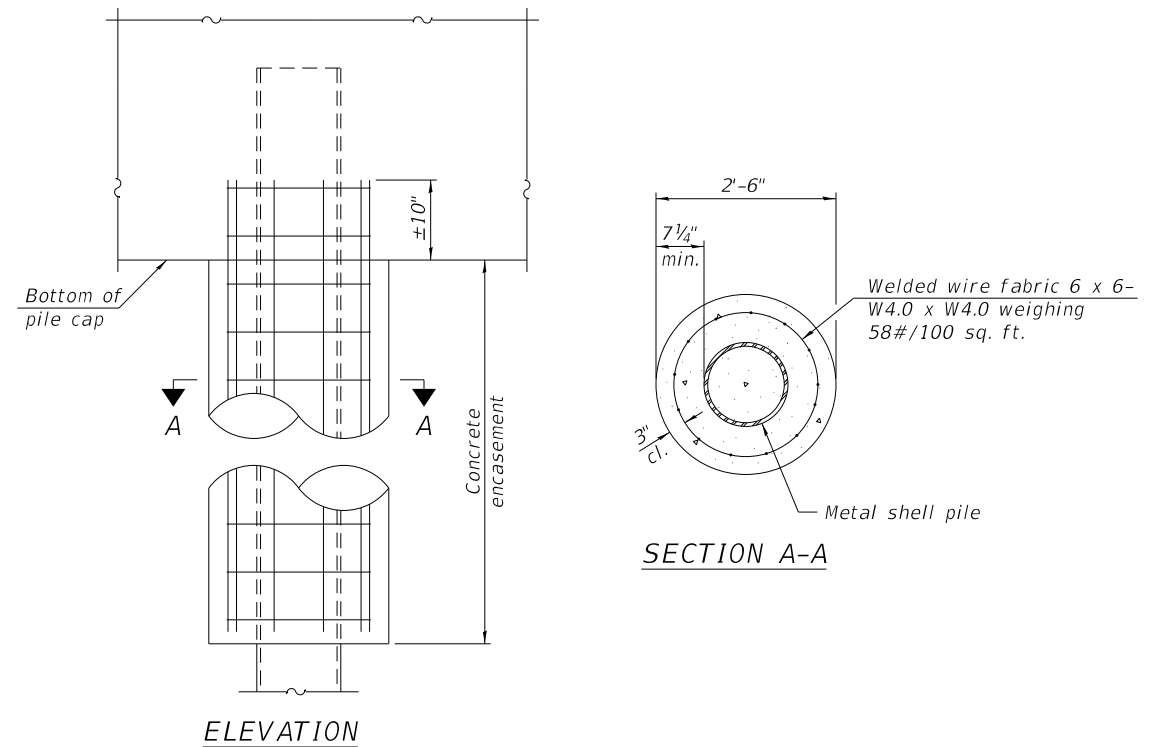


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



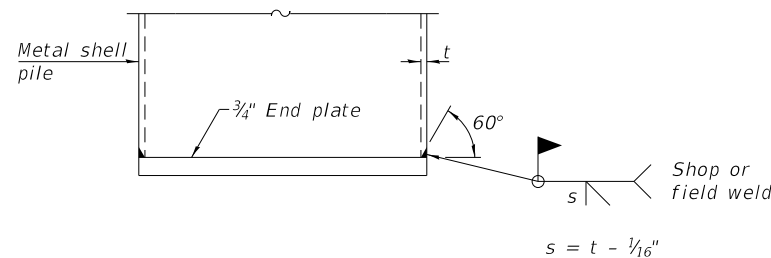
DETAIL A



ELEVATION

SECTION A-A

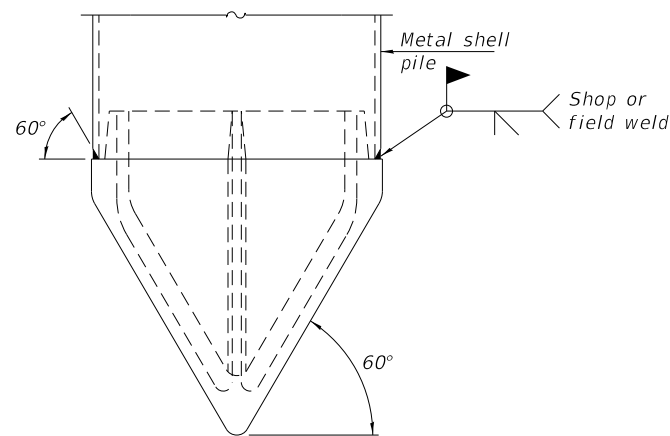
INDIVIDUAL PILE CONCRETE ENCASEMENT AT PIERS



END PLATE ATTACHMENT

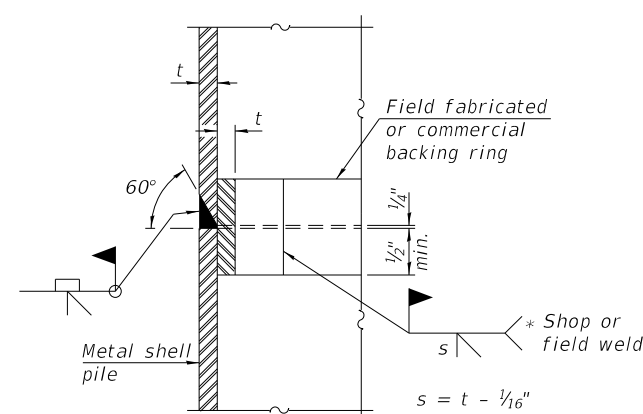
WELDED COMMERCIAL SPLICE

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.



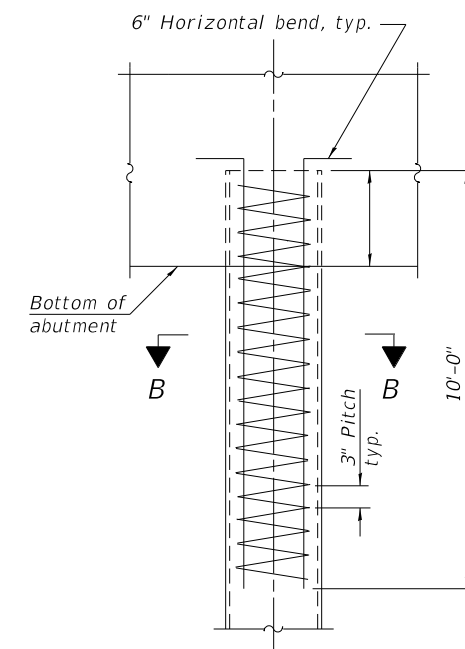
PILE SHOE ATTACHMENT

(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).

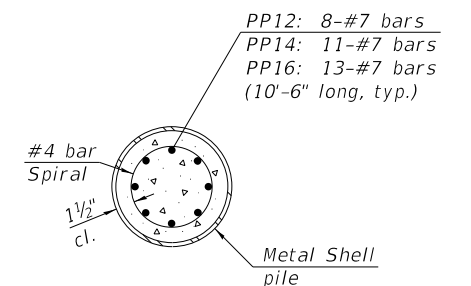


COMPLETE PENETRATION WELD SPLICE

* 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 B-B

REINFORCEMENT AT ABUTMENTS

Note:
 The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 8-11-2017



USER NAME = dheberling	DESIGNED - CWC/BJJ	REVISED
FILE NAME = 0583404-00000.dgn	CHECKED - CWC	REVISED
PLOT SCALE = 0:2" = 1'-0"	DRAWN - DLH	REVISED
PLOT DATE = 3/31/2020	CHECKED - SBC/BJJ	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILES
 STRUCTURE NO. 058-3404**

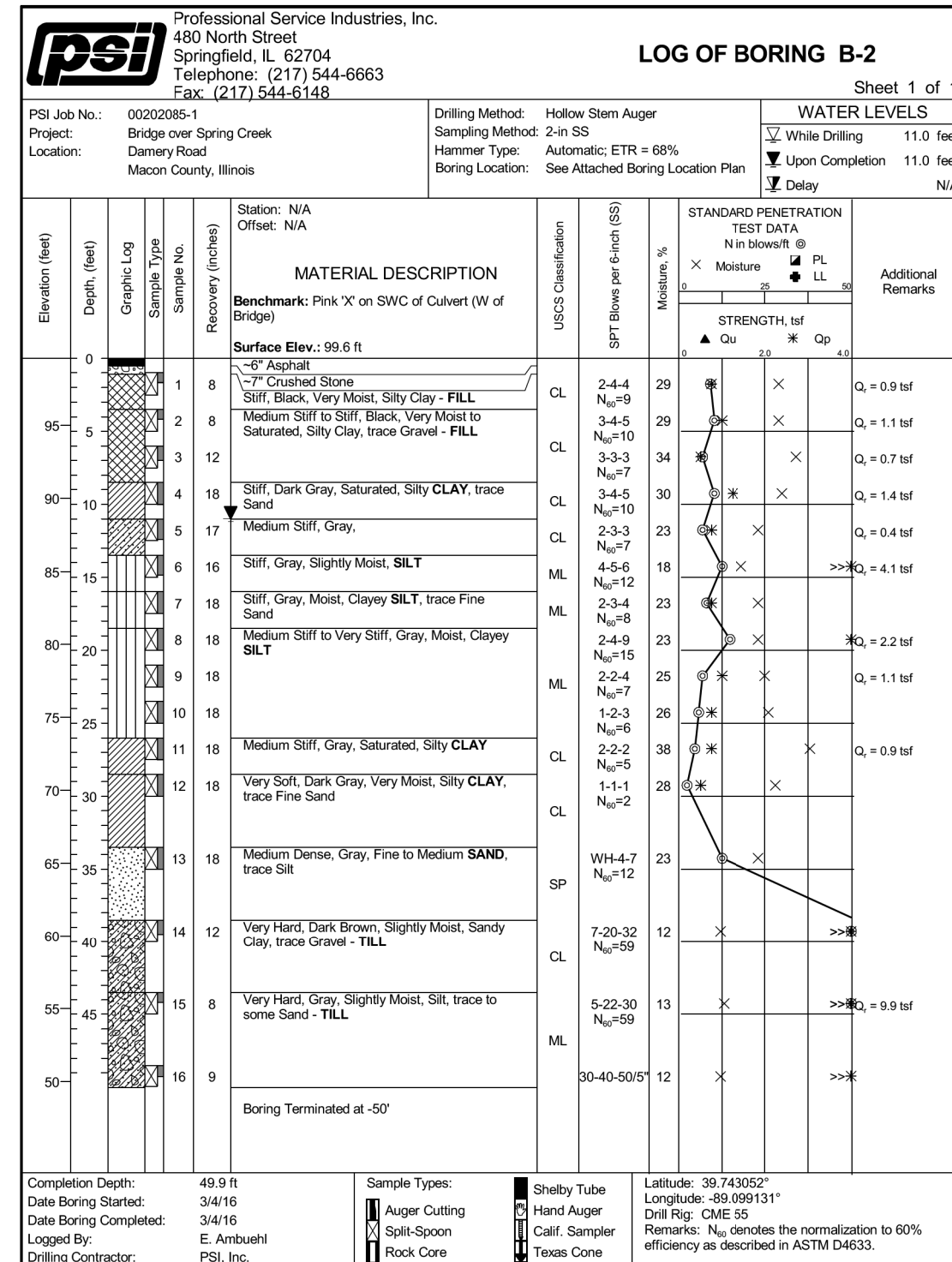
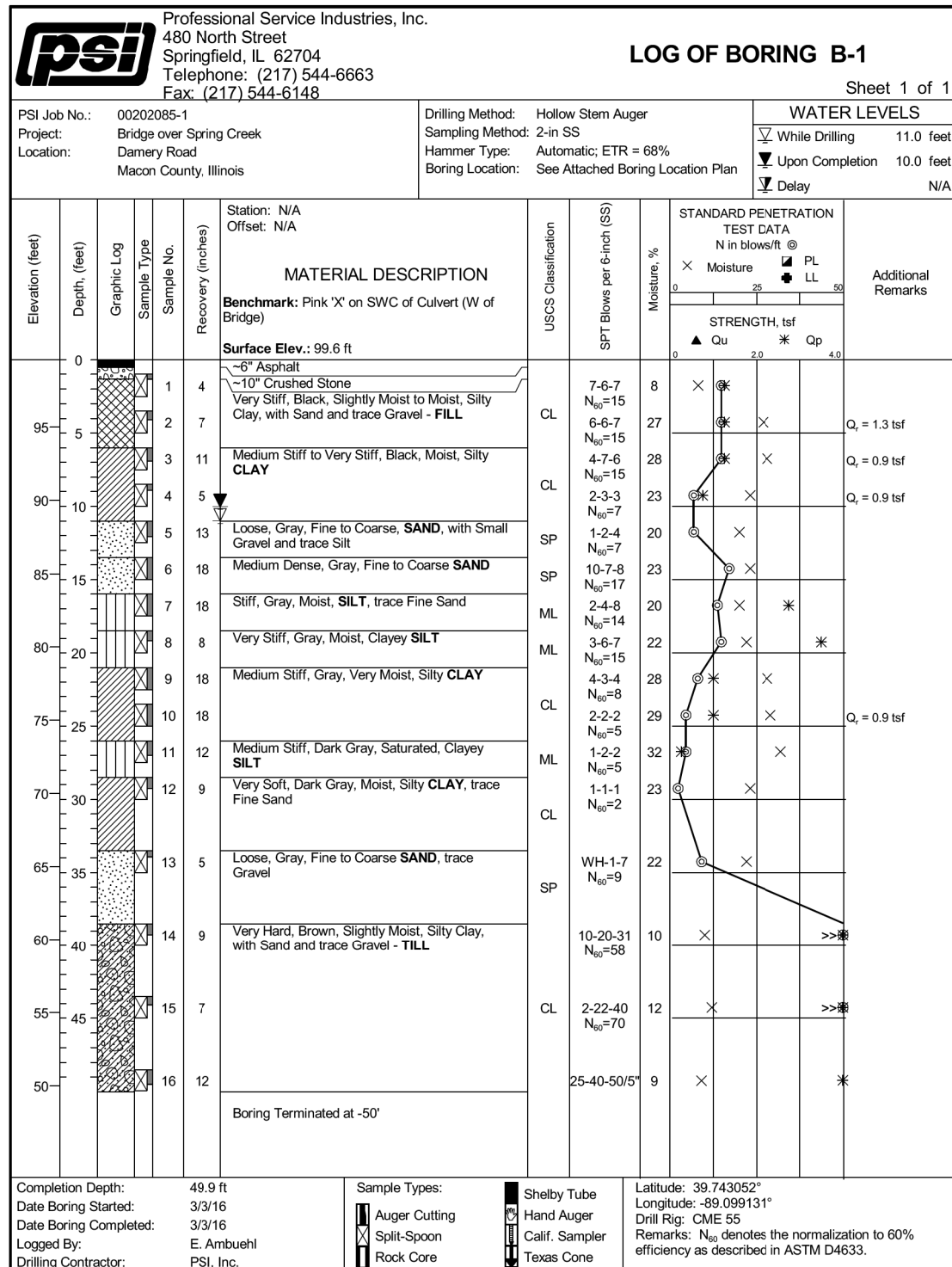
SHEET NO. 8 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	21
CONTRACT NO. 95874				

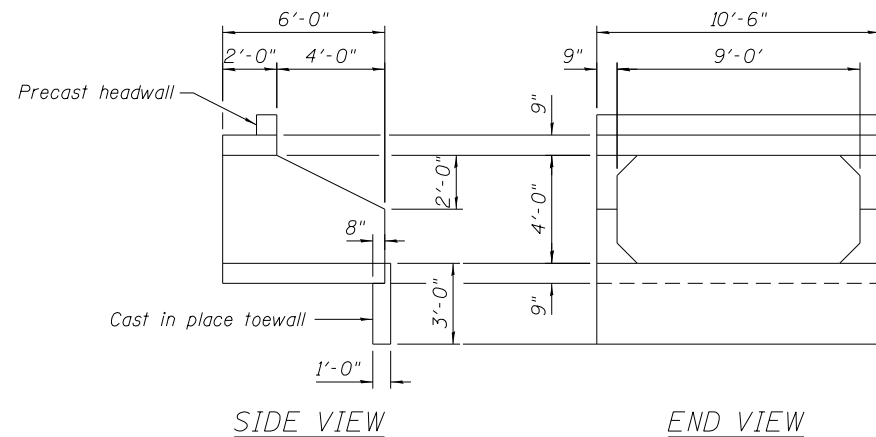
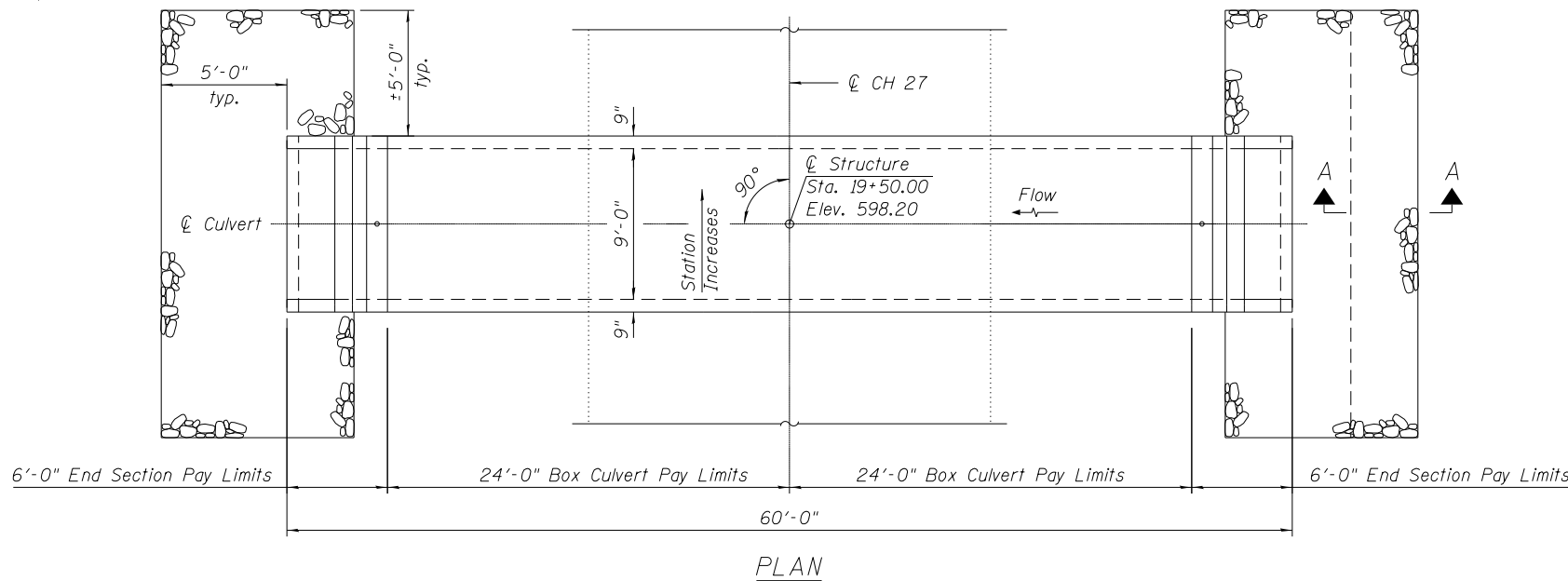
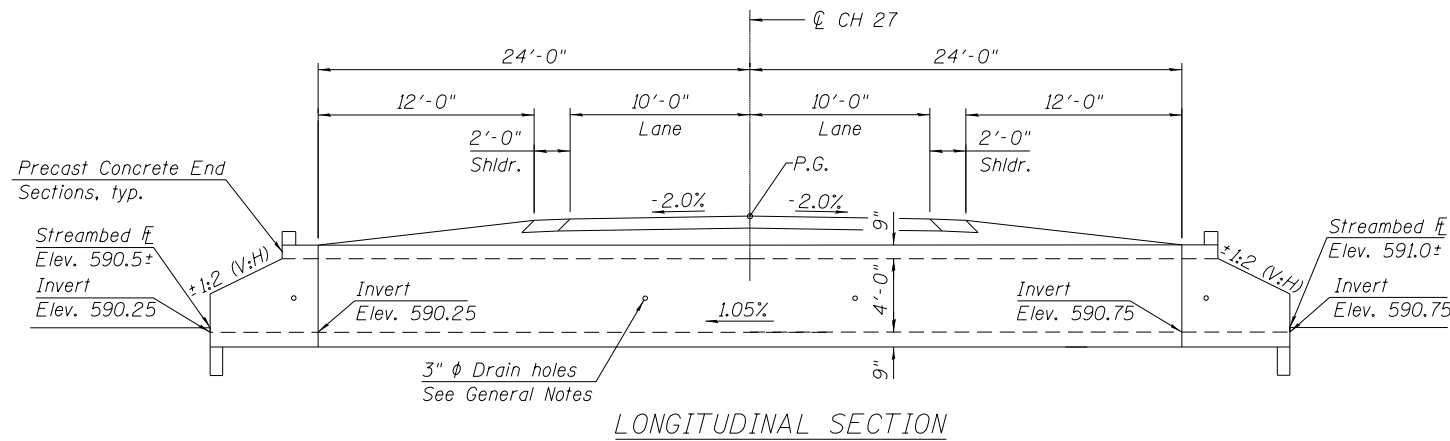
ILLINOIS FED. AID PROJECT

B-1 Surface Elevation = 596.84'

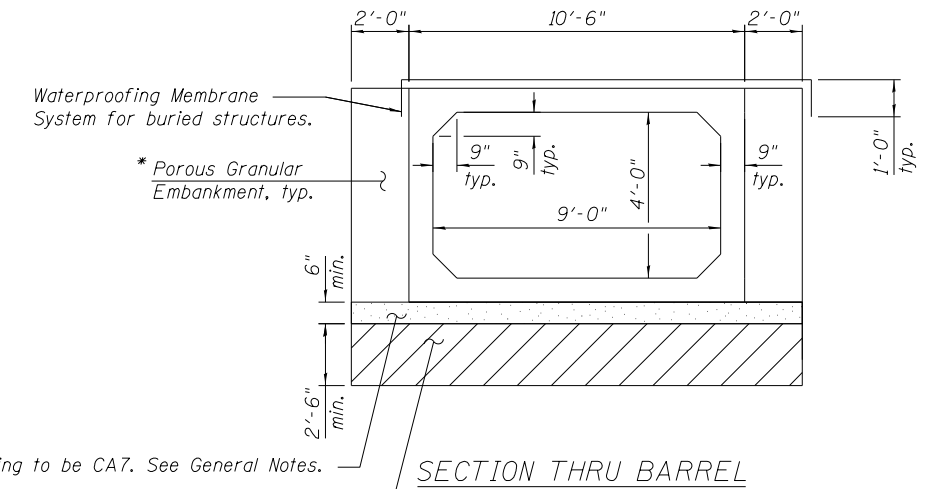
B-2 Surface Elevation = 596.88'



Benchmark: BM "A" RR spike in south face of wood power pole approx. 100' west of project bridge. Elev. 594.35.
 Existing Structure: Existing Structure is a single-cell precast concrete box culvert. The culvert is ±32'-0" in length and has a width of 10'-0". Structure is to be removed and replaced. Road is to be closed during construction.



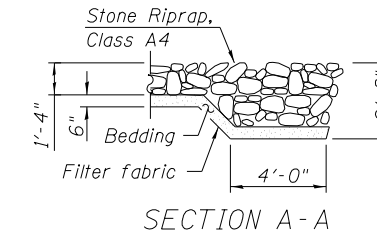
Cost of precast headwall, cutoff wall, and all attachments included with Box Culvert End Section.



* Culvert bedding to be CA7. See General Notes.
 * Limits of Removal and Disposal of Unsuitable Material to be backfilled with Rock Fill. See Special Provisions.
 * Limits extend along the full length of box culvert and end sections

GENERAL NOTES

This box culvert has a design fill height of 2 < 3 feet. The Precast Concrete Box Culvert sections shall conform to the requirements of ASTM C1577. Reinforcement bars designated (E) shall be epoxy coated. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer. The cost of excavation and bedding necessary for the box culvert and end section installation, excluding the limits of Removal and Disposal of Unsuitable Material shall be included in the pay item Precast Concrete Box Culverts 9' x 4'. Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification. Contractor may elect to use 9' x 5' culvert and place inverts 1' lower than shown. No additional payment for materials or excavation will be allowed.



DESIGN SPECIFICATIONS
 2014 AASHTO LRFD Bridge Design Specifications
 7th Edition with 2015 Interims

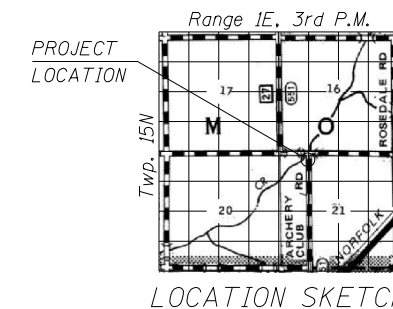
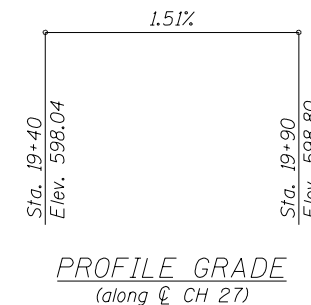
LOADING HL-93
 Max. Fill Height = 2.71 ft.
 Min. Fill Height = 2.29 ft.

DESIGN STRESSES

PRECAST UNITS
 f'c = 5,000 psi
 fy = 65,000 psi (Welded Wire Reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	46
Stone Riprap, Class A4	Sq. Yd.	30
Filter Fabric	Sq. Yd.	30
Removal of Existing Structures No. 3	Each	1
Removal and Disposal of Unsuitable Material	Cu. Yd.	81
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts, 9' x 4'	Foot	48
Membrane Waterproofing System for Buried Structures	Sq. Yd.	84
Rock Fill	Cu. Yd.	78
Geocomposite Wall Drain	Sq. Yd.	64



GENERAL PLAN AND ELEVATION
 CH 27 (LINCOLN MEMORIAL PKWY) OVER
 DRAINAGE DITCH
 SEC. 15-00274-00-BR
 MACON COUNTY
 STATION 19+50.00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
 CH 27 OVER DRAINAGE DITCH

SHEET NO. 1 OF 1 SHEETS

FAS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	23
				CONTRACT NO. 95874

ILLINOIS FED. AID PROJECT

FILE NAME = C:\Users\dheberling\Desktop\Jobs\82271058\XXX-00000.dgn

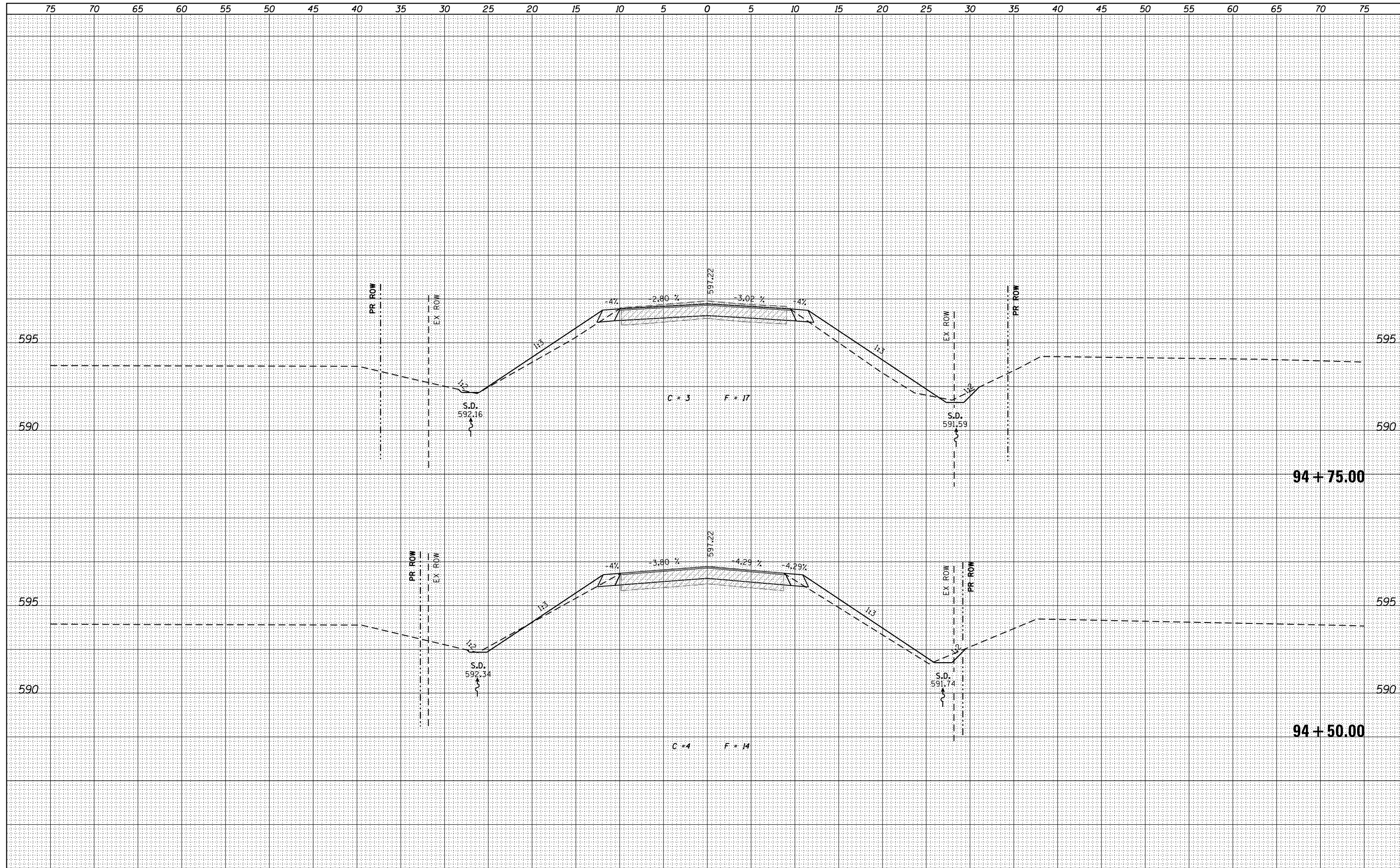
design firm no. 184001036



USER NAME = dheberling	DESIGNED - BJJ	REVISED
MODEL = 0000000-00000-001	CHECKED - RKA	REVISED
PLOT SCALE = 0:2" / in.	DRAWN - BJJ	REVISED
PLOT DATE = 3/31/2020	CHECKED - CWC	REVISED

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

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



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = g_jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: 1" = 5'

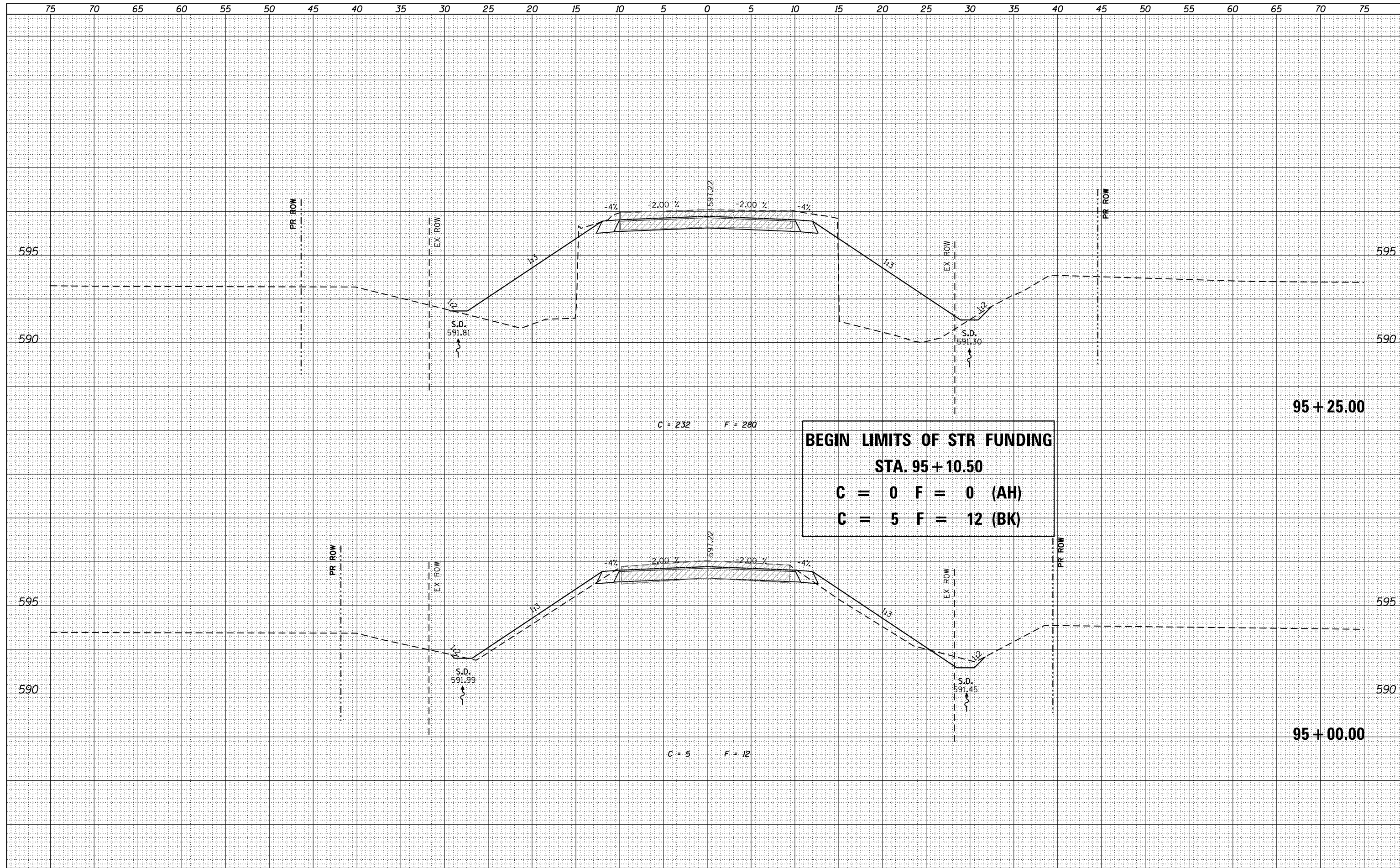
SHEET NO. 2 OF 23 SHEETS

STA. 94+50.00 TO STA. 94+75.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	25
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

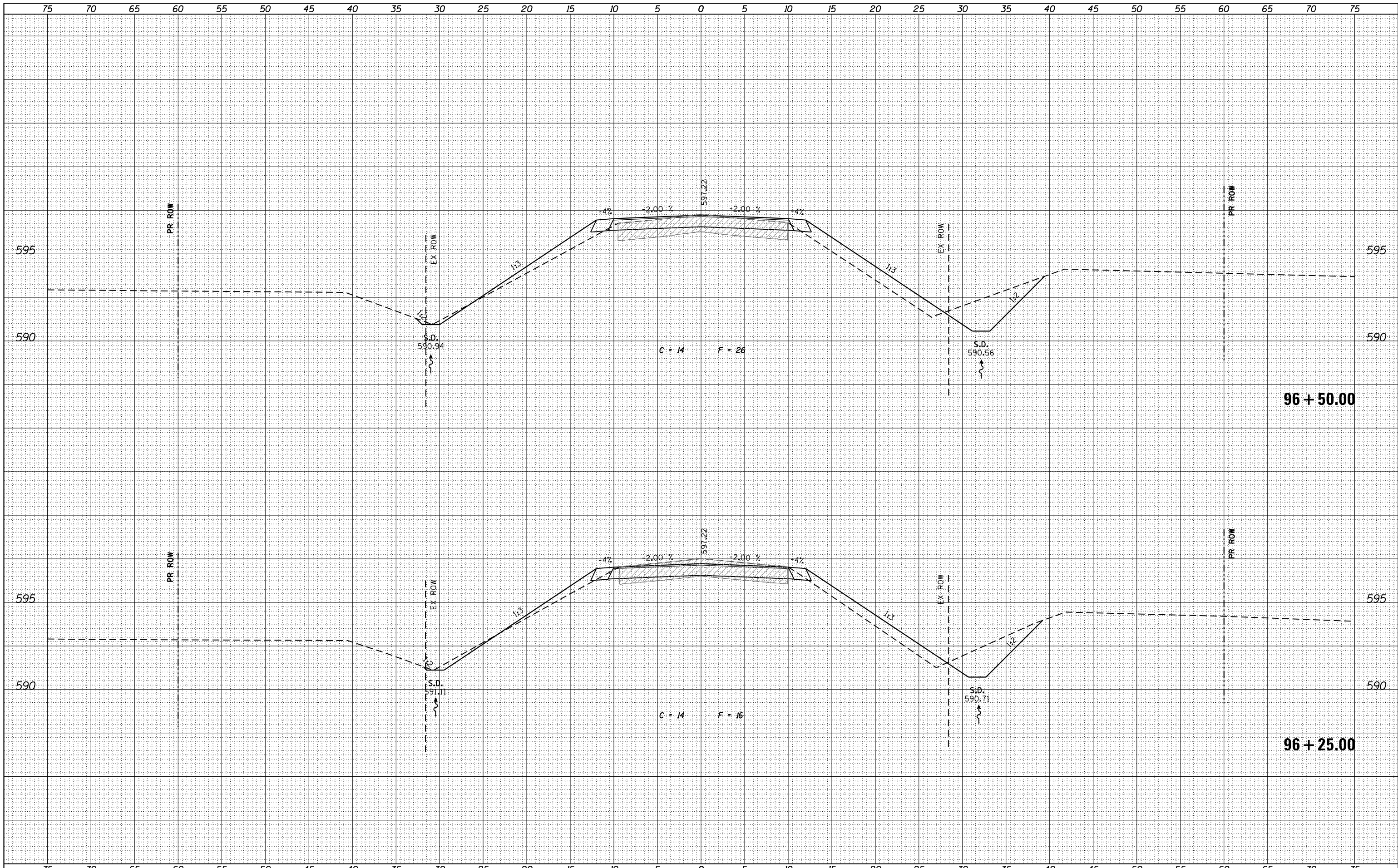
SCALE: 1" = 5' SHEET NO. 3 OF 23 SHEETS STA. 95+00.00 TO STA. 95+25.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	26
CONTRACT NO. 95874				

ILLINOIS FED. AID PROJECT

BY	DATE

BY	DATE



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

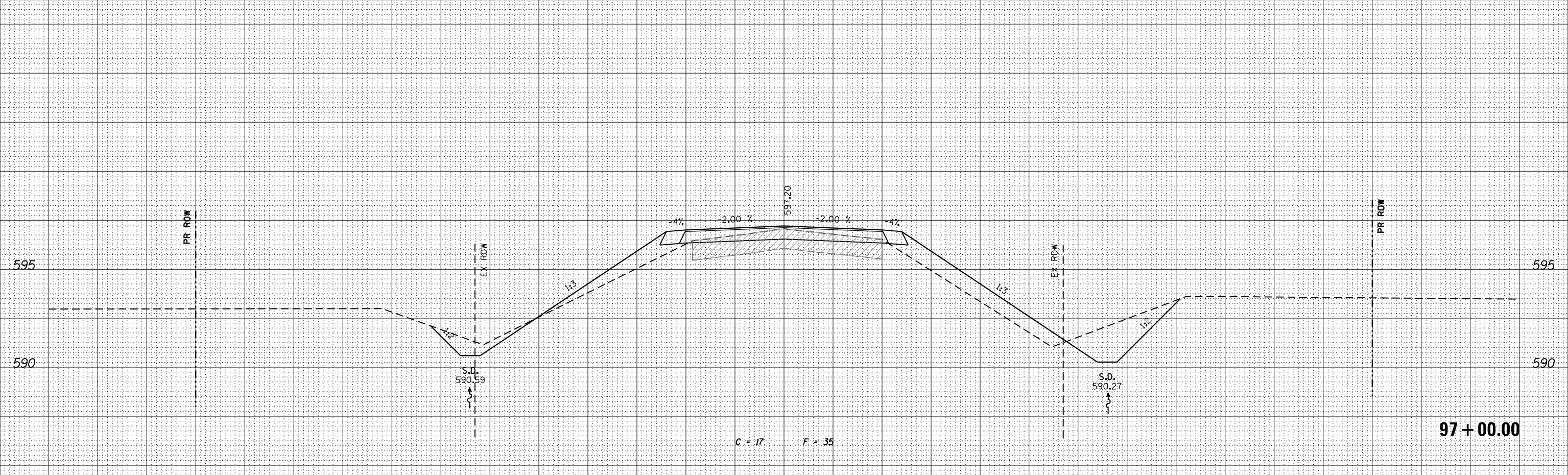
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH**

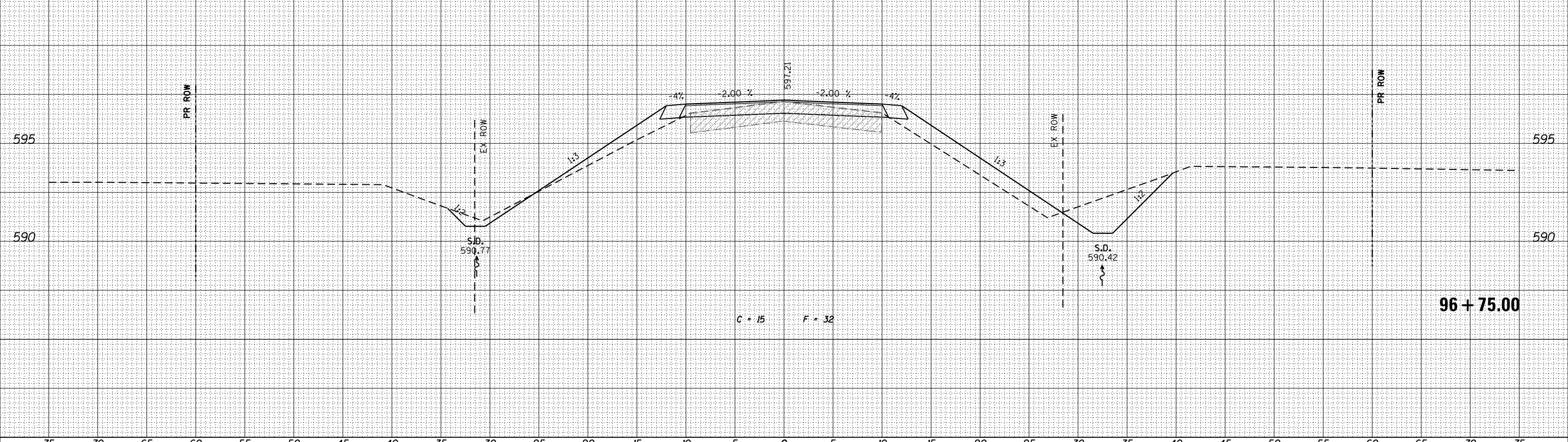
SCALE: 1" = 5' SHEET NO. 7 OF 23 SHEETS STA. 96+25.00 TO STA. 96+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	30
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

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



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



design firm
no. 184001036

USER NAME = gjameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (DAMERY ROAD)

FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: 1" = 5'

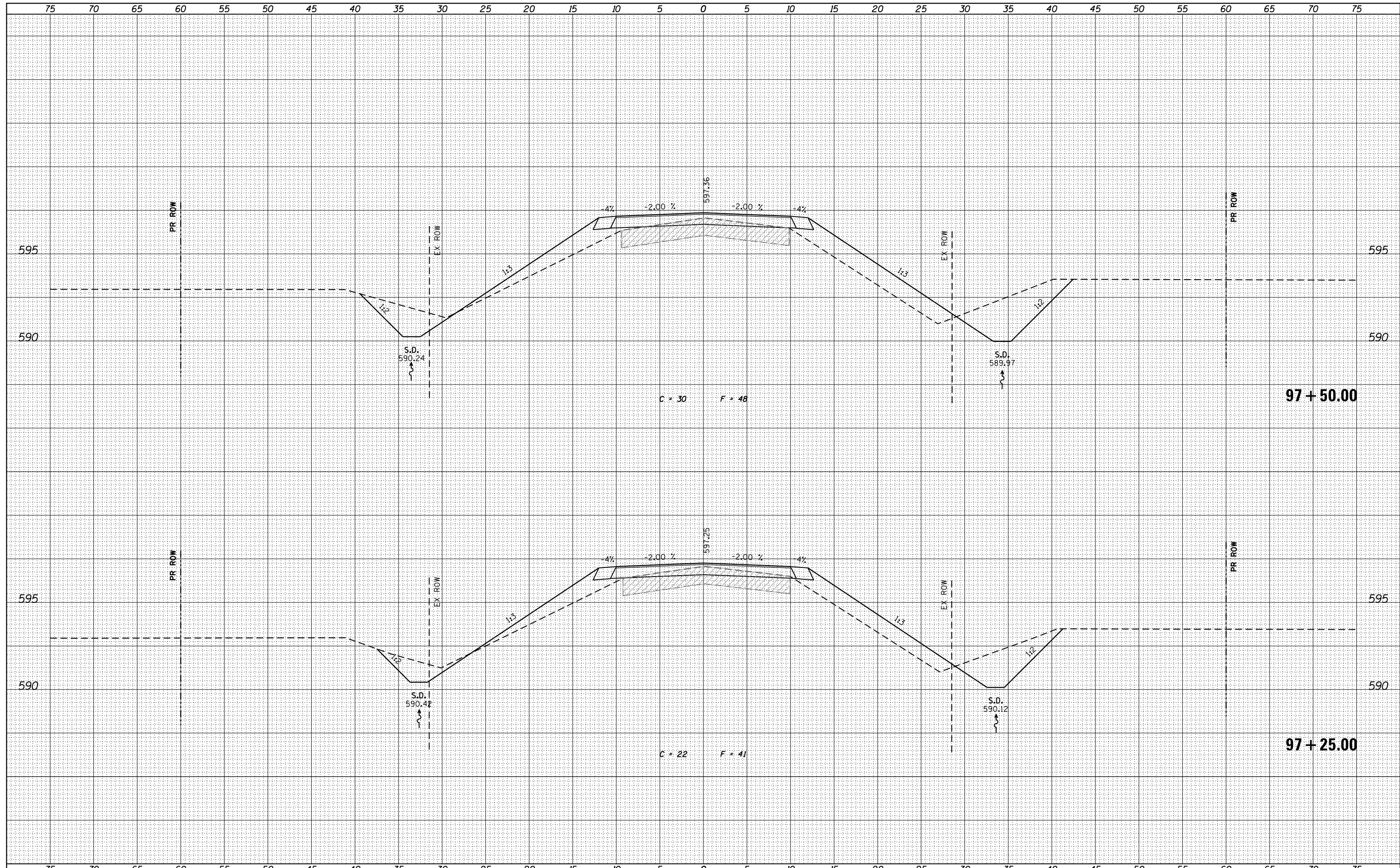
SHEET NO. 8	OF 23 SHEETS	STA. 96+75.00	TO STA. 97+00.00
-------------	--------------	---------------	------------------

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	31
CONTRACT NO. 95874				

ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



design firm
no. 184001036
whks
engineers + planners + land surveyors

USER NAME = g_jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10,000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

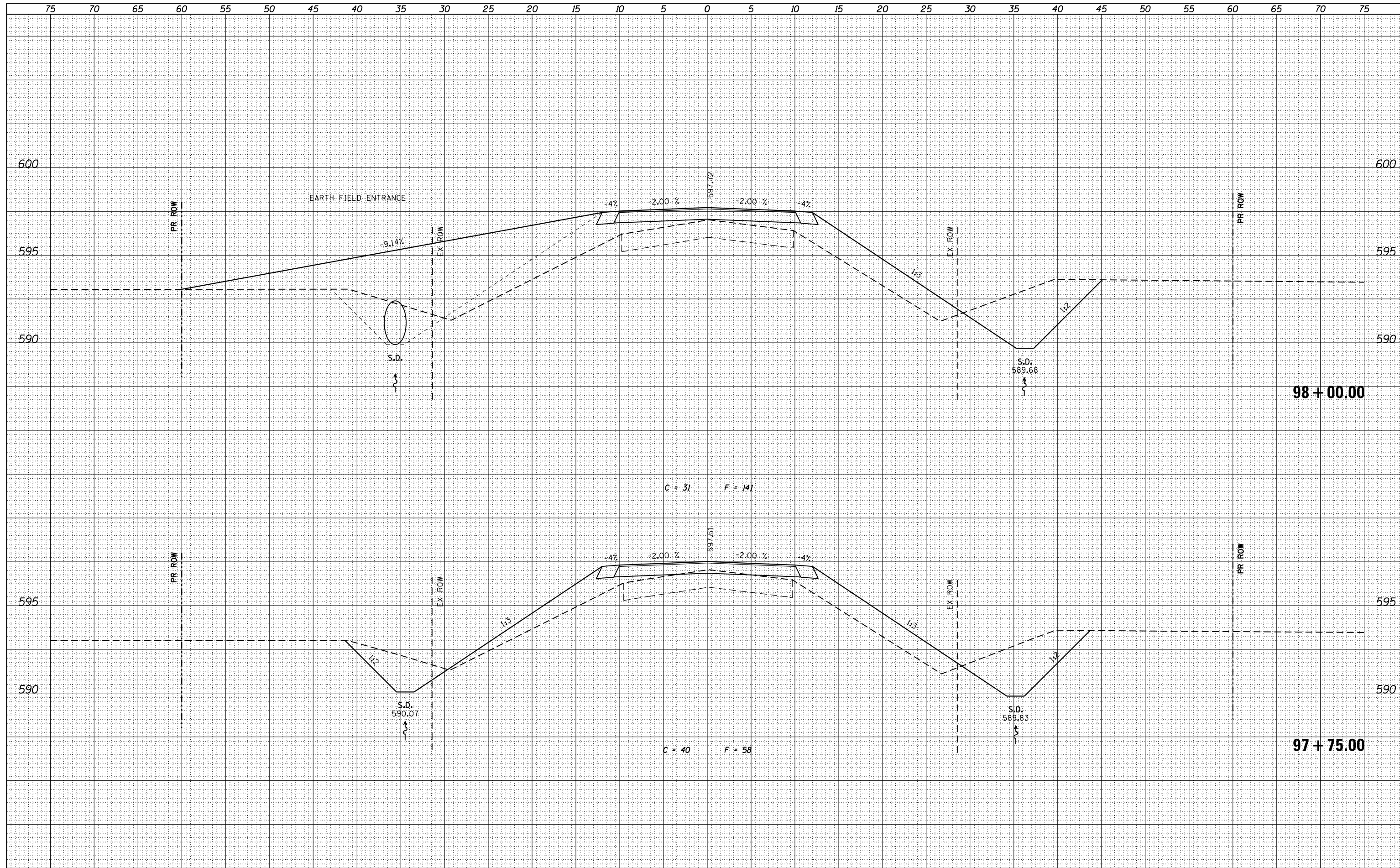
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH
SCALE: 1" = 5' SHEET NO. 9 OF 23 SHEETS STA. 97+25.00 TO STA. 97+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	32
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

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

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



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

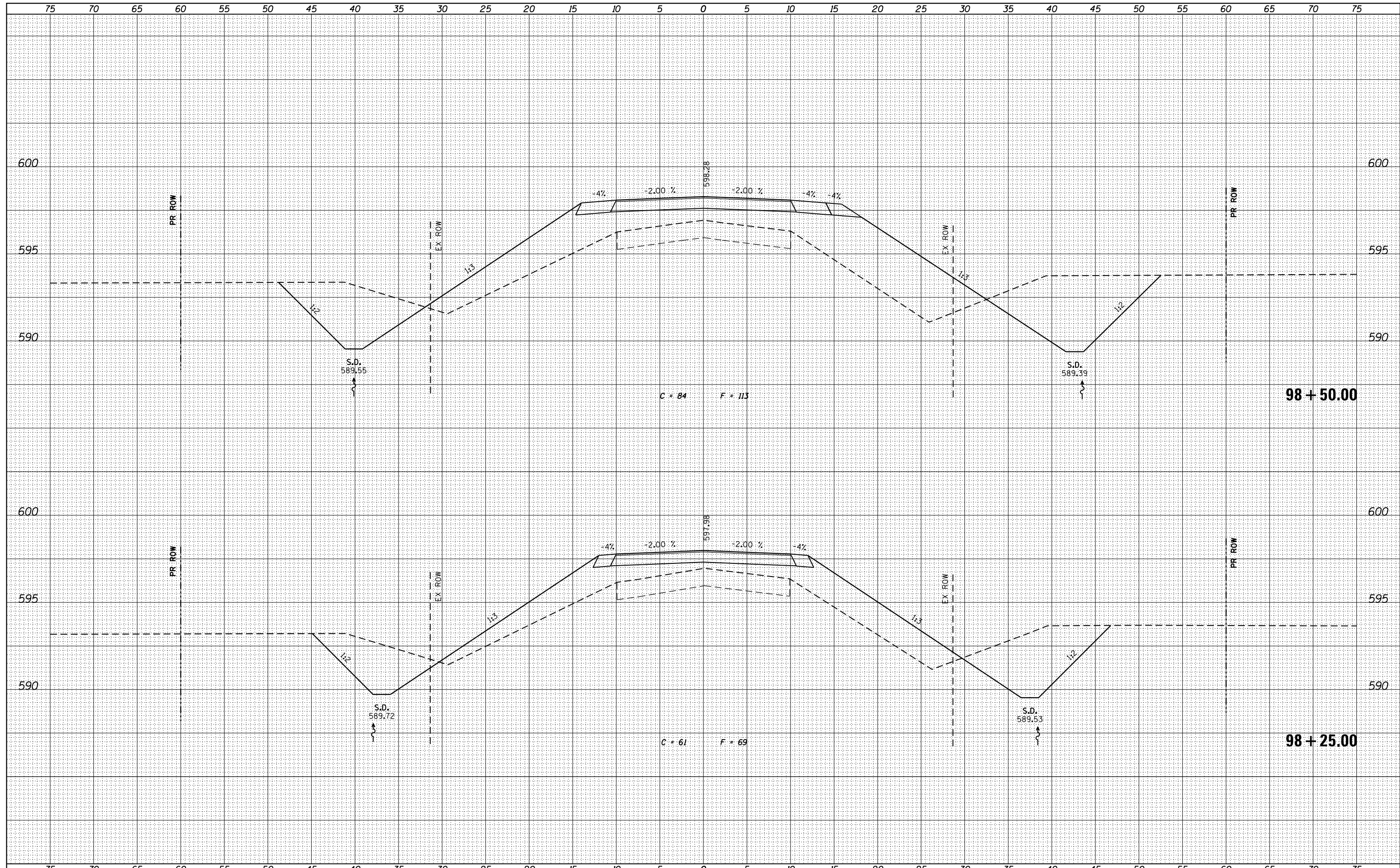
**CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH**

SCALE: 1" = 5' SHEET NO. 10 OF 23 SHEETS STA. 97+75.00 TO STA. 98+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	33
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

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

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



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: 1" = 5'

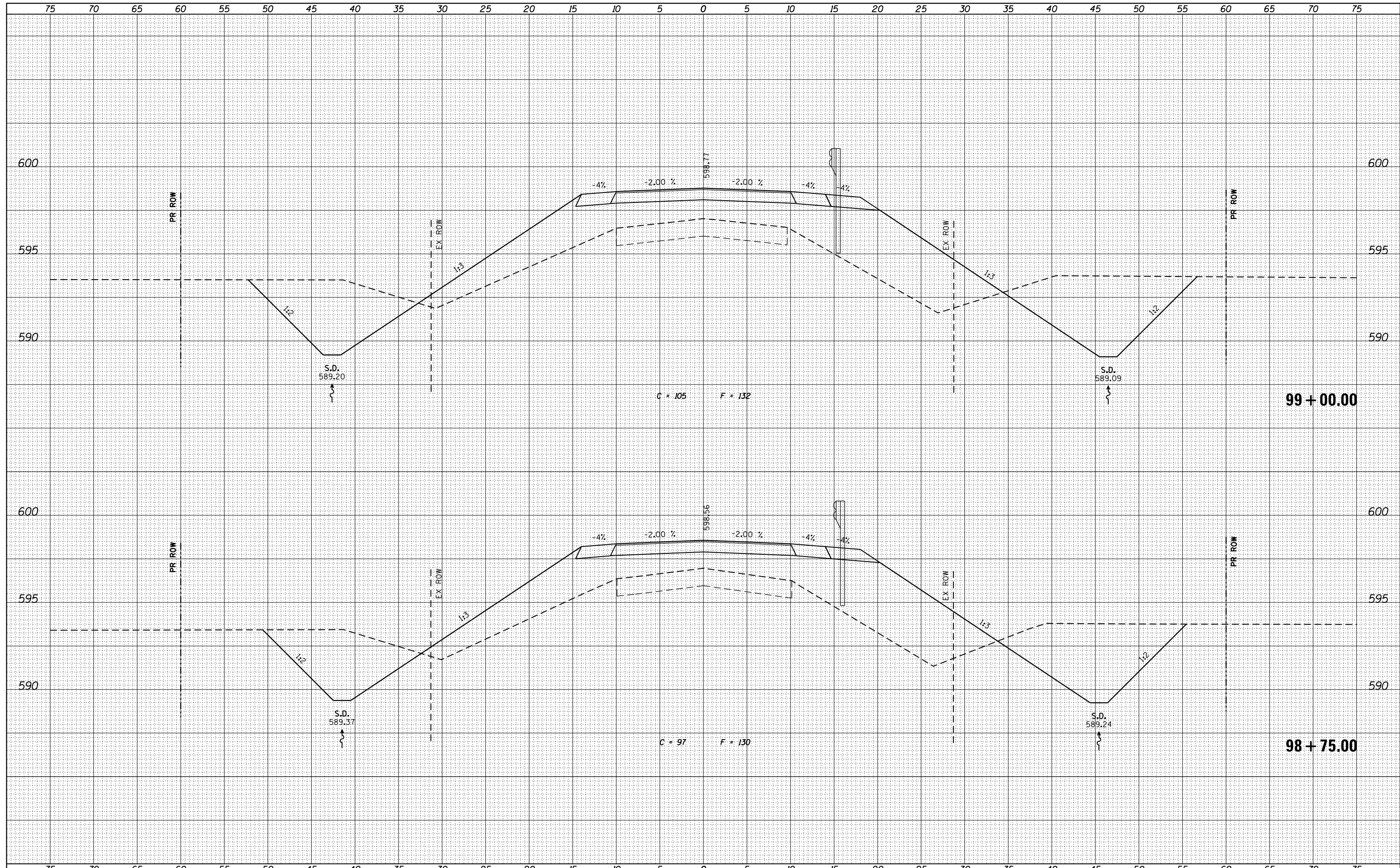
SHEET NO. 11 OF 23 SHEETS

STA. 98+25.00 TO STA. 98+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	34
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

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

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



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

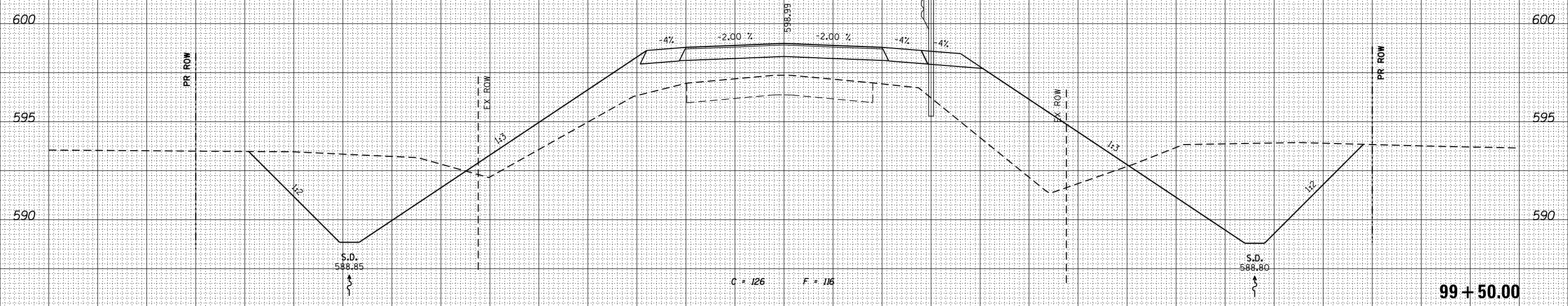
CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: 1" = 5' SHEET NO. 12 OF 23 SHEETS STA. 98+75.00 TO STA. 99+00.00

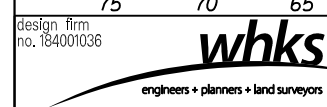
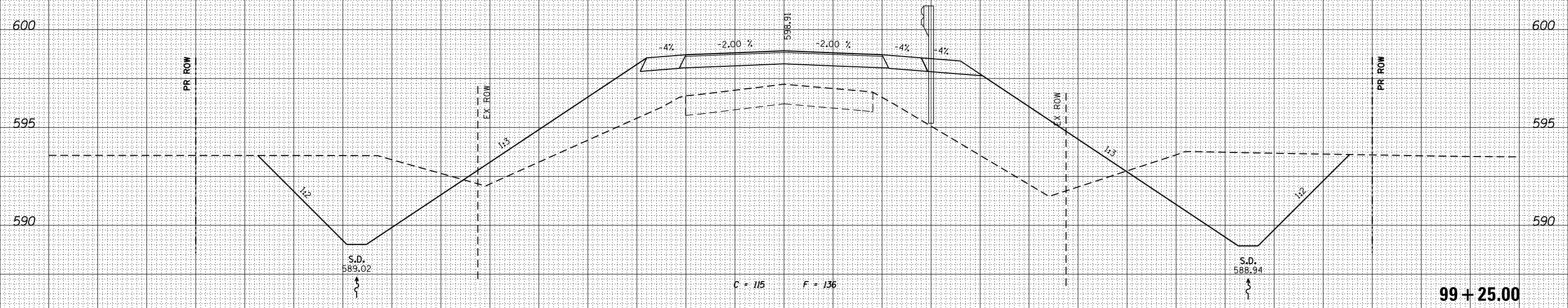
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	35
CONTRACT NO. 95874				

**BRIDGE OMISSION:
STA. 99+65.00 TO STA. 100+35.00 (SN 058-3204)**

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



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



USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH**

SCALE: 1" = 5'

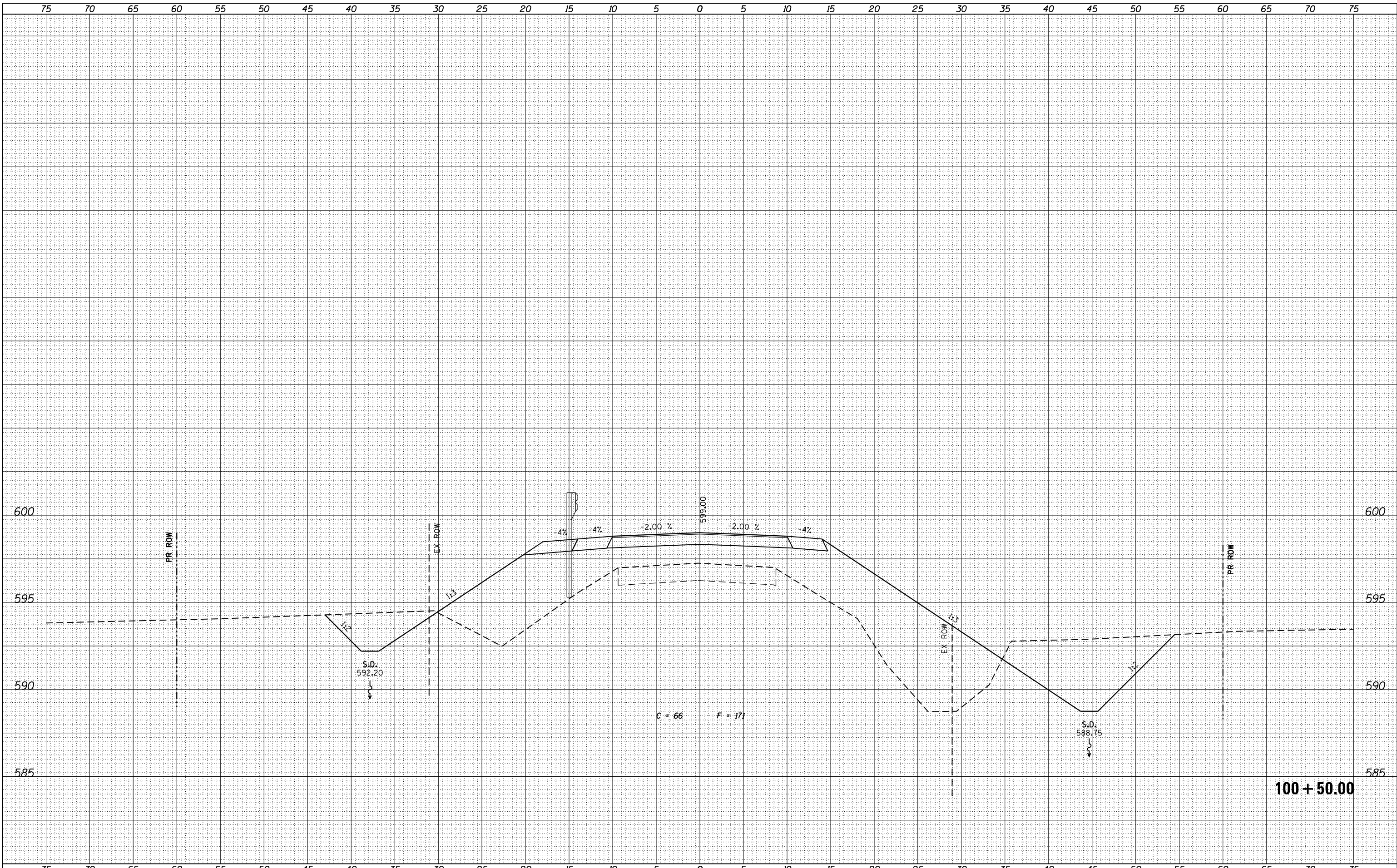
SHEET NO. 13 OF 23 SHEETS

STA. 99+25.00 TO STA. 99+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	36
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

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

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



design firm
no. 184001036

USER NAME = gjameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH**

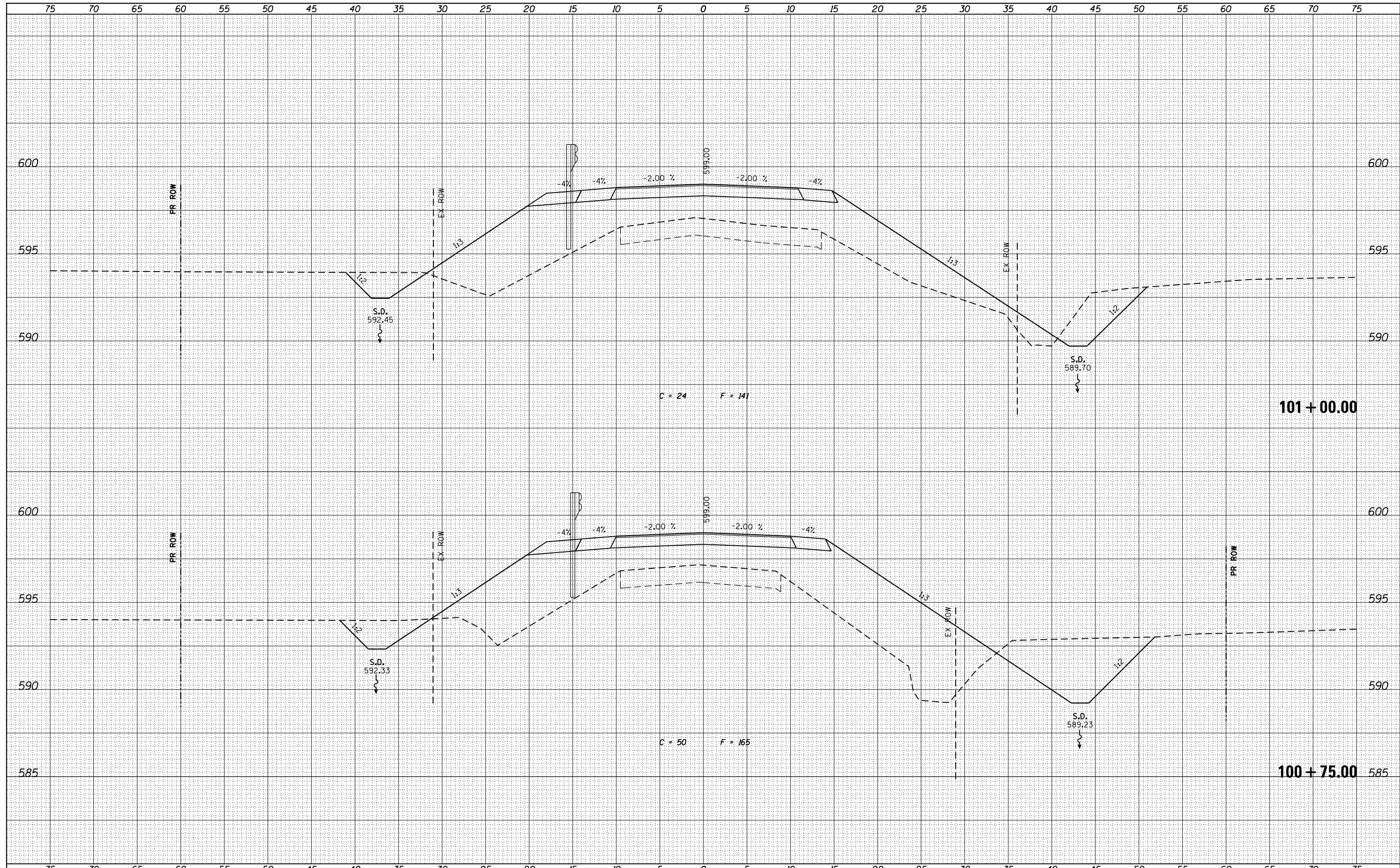
SCALE: 1" = 5' SHEET NO. 14 OF 23 SHEETS STA. 100+50.00 TO STA. 100+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	37
CONTRACT NO. 95874				

ILLINOIS FED. AID PROJECT

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

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



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

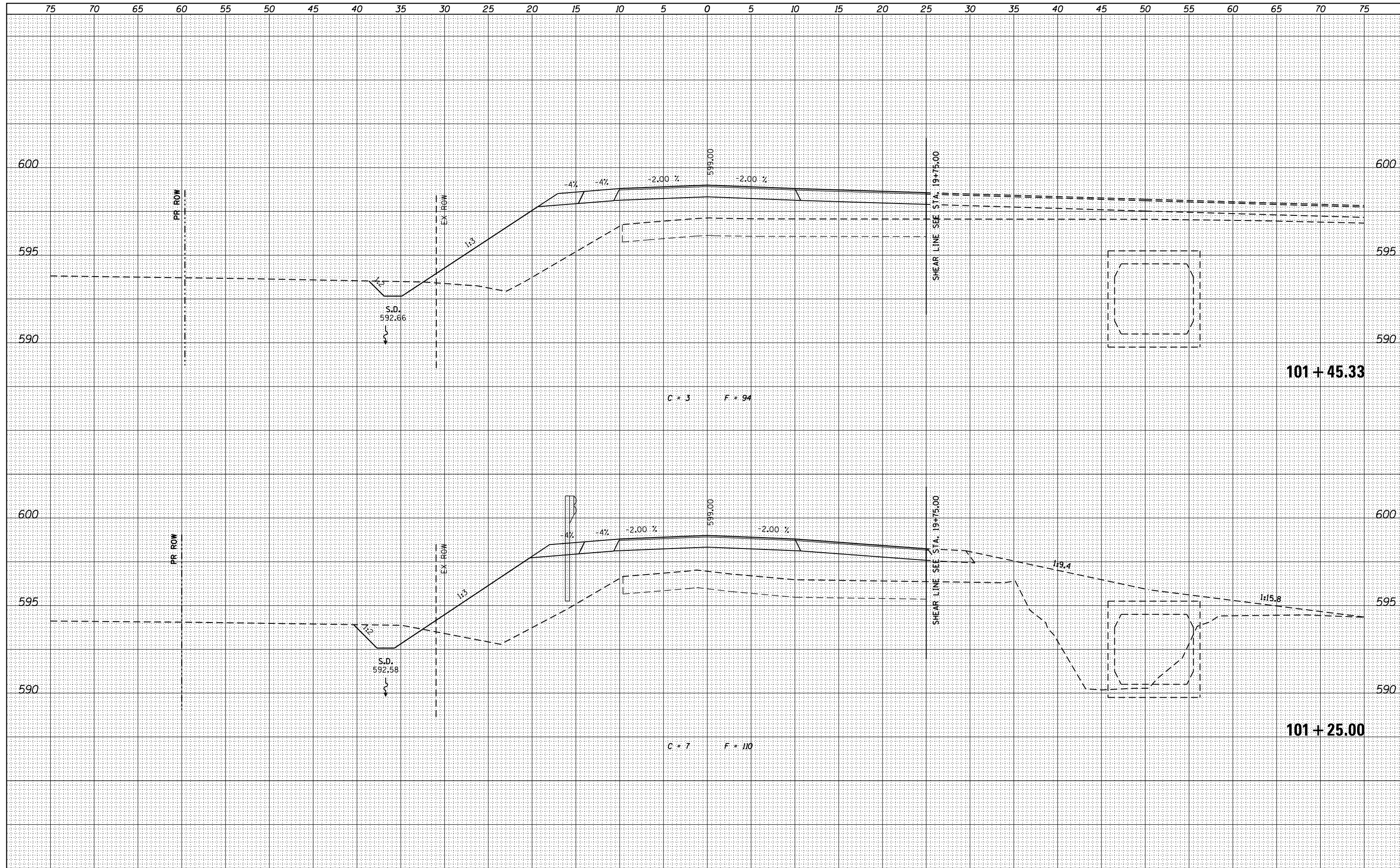
**CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH**

SCALE: 1" = 5' SHEET NO. 15 OF 23 SHEETS STA. 100+75.00 TO STA. 101+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	38
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

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

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



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

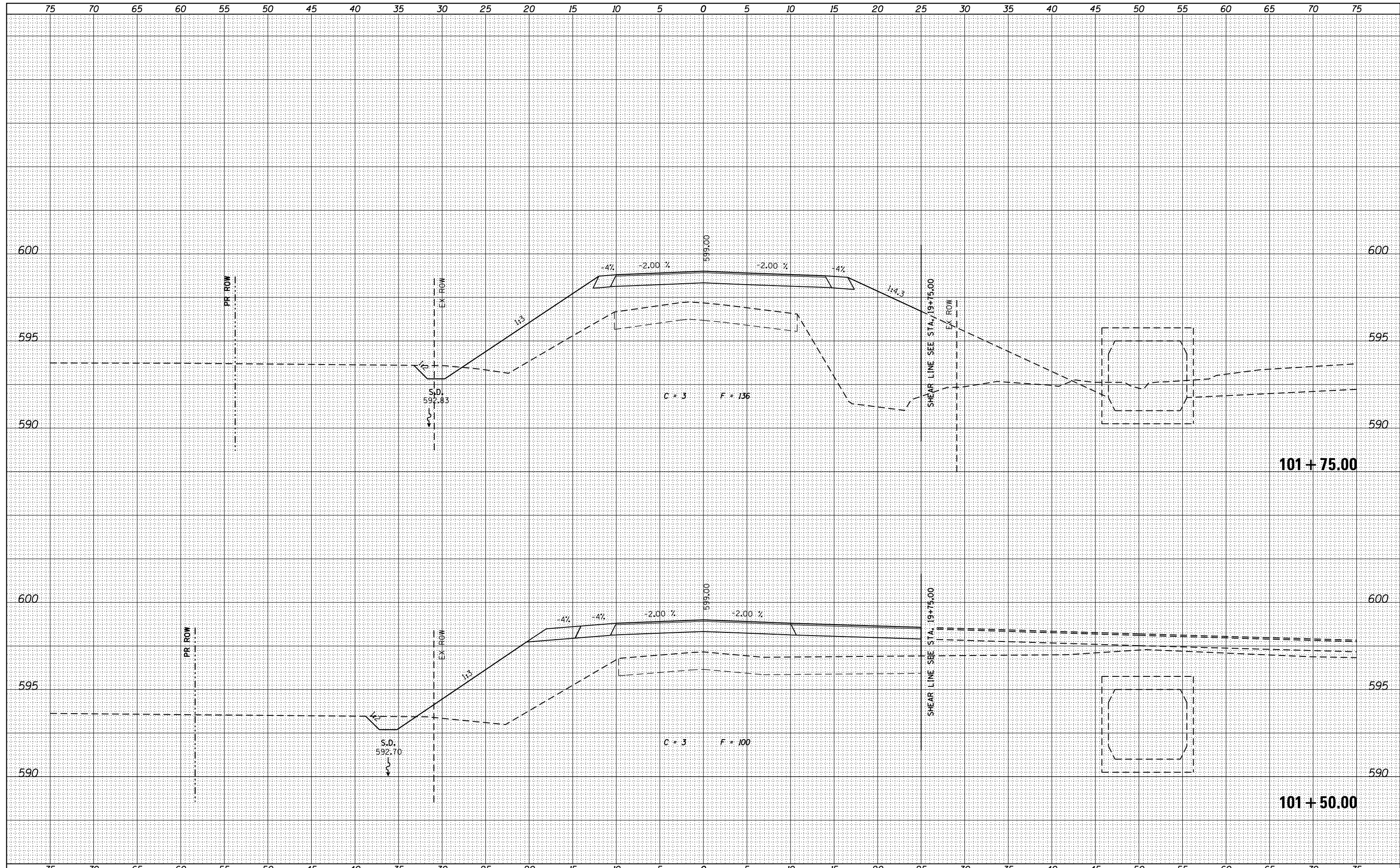
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH
SCALE: 1" = 5'
SHEET NO. 16 OF 23 SHEETS
STA. 101+25.00 TO STA. 101+43.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	39
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

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

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



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

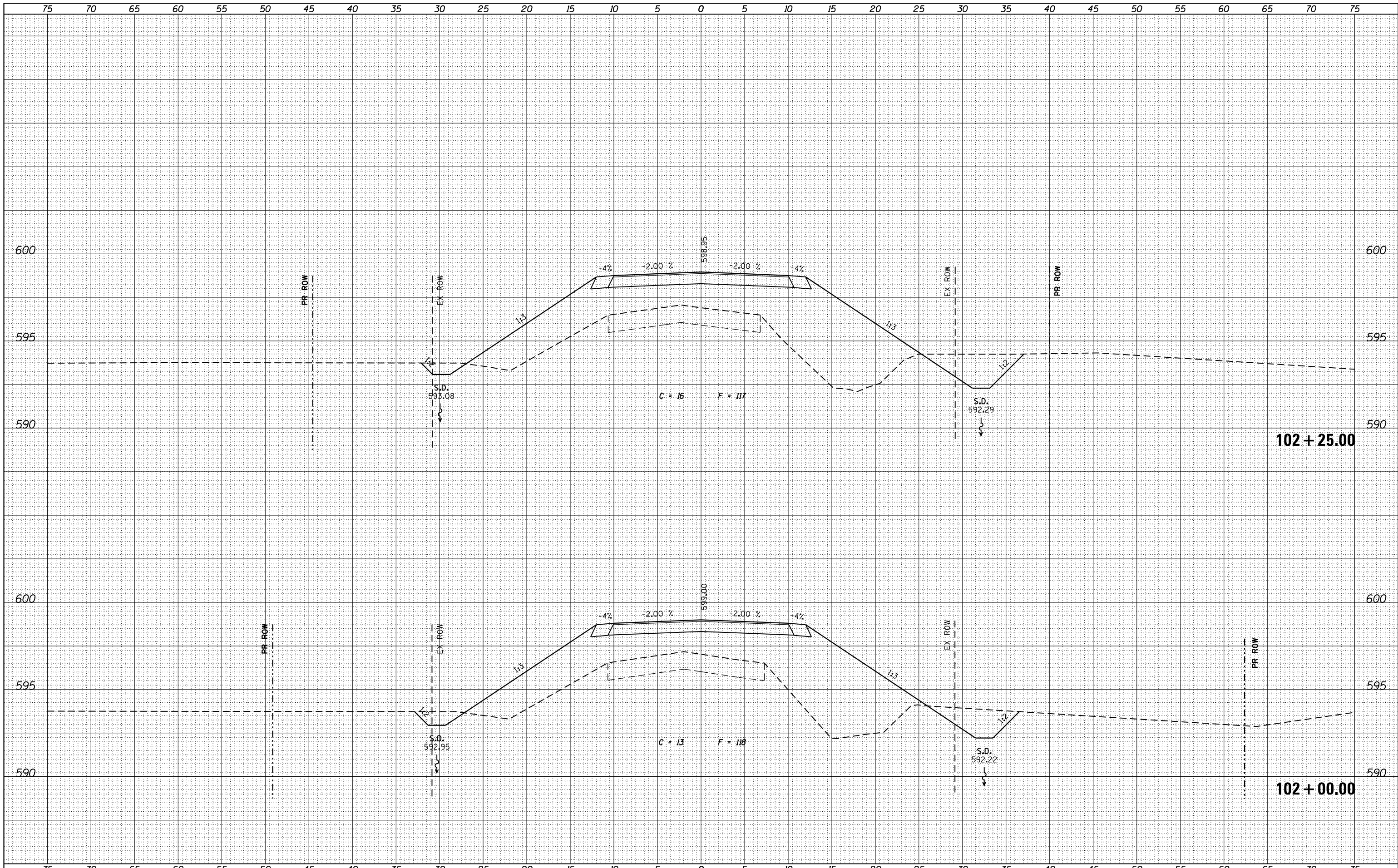
CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: 1" = 5' SHEET NO. 17 OF 23 SHEETS STA. 101+50.00 TO STA. 101+75.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	40
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / 1" =	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

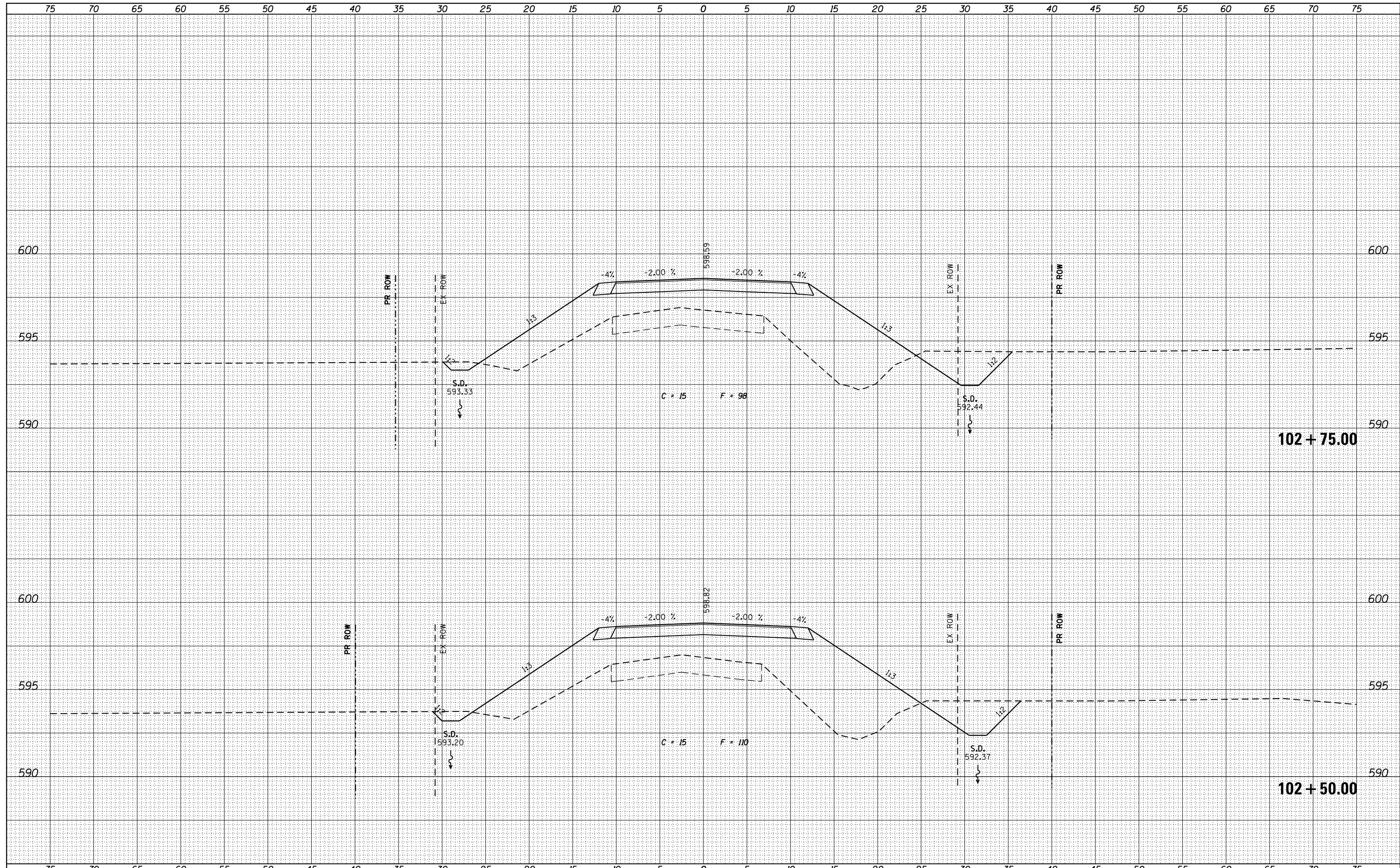
**CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH**

SCALE: 1" = 5' SHEET NO. 18 OF 23 SHEETS STA. 102+00.00 TO STA. 102+25.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	41
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

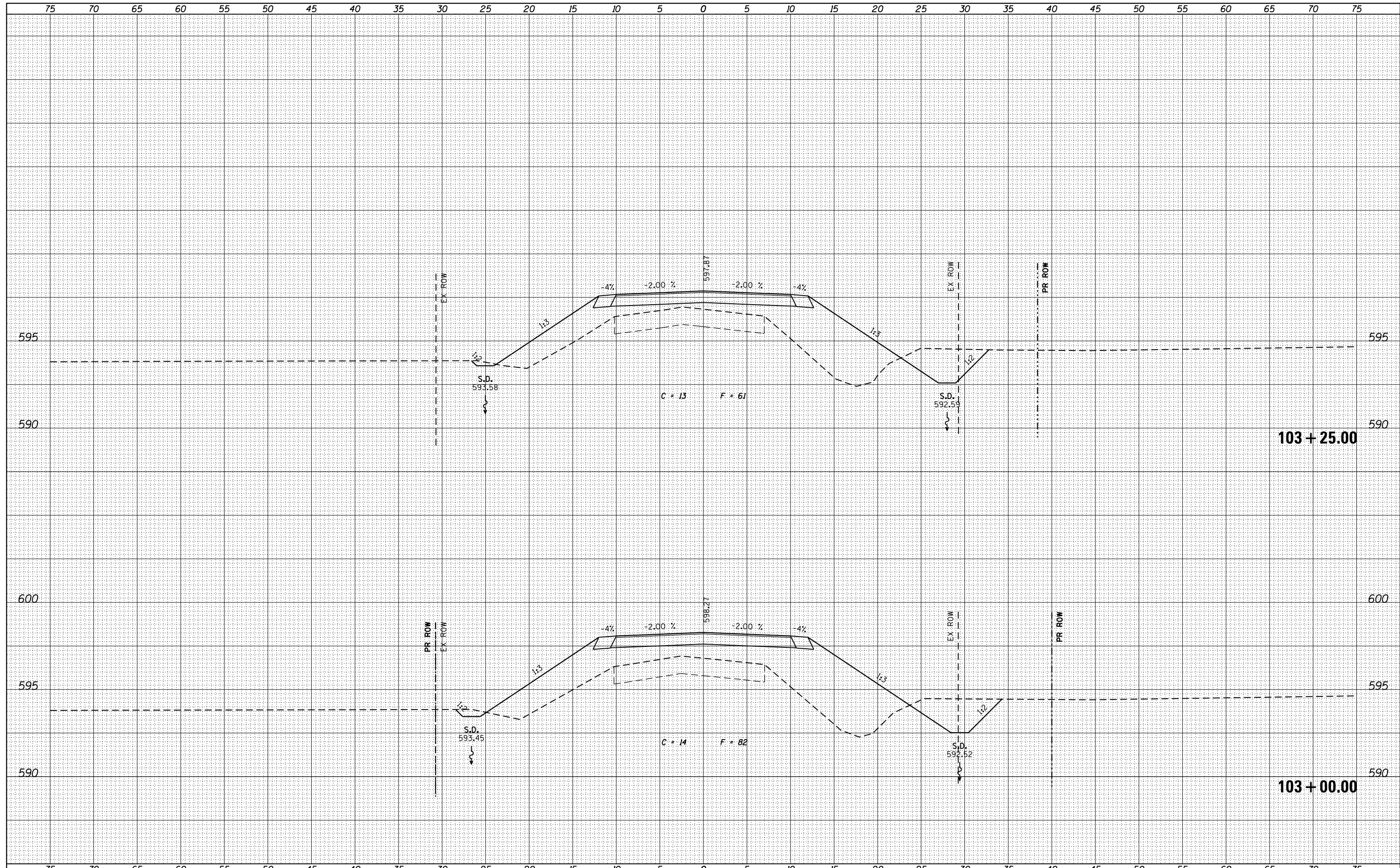
DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



design firm no. 184001036	whks engineers • planners • land surveyors	USER NAME = gjameson	DESIGNED - BJJ	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS (DAMERY ROAD) FAS 551 (CH 27) OVER SPRING CREEK & DITCH	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED			551	15-00274-00-BR	MACON	51	42
		PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED	SCALE: 1" = 5'		SHEET NO. 19 OF 23 SHEETS		STA. 102+50.00 TO STA. 102+75.00		CONTRACT NO. 95874
		PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED			ILLINOIS FED. AID PROJECT				

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY NO.	

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY NO.	



design firm
no. 184001036
whks
engineers • planners • land surveyors

USER NAME = gjameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

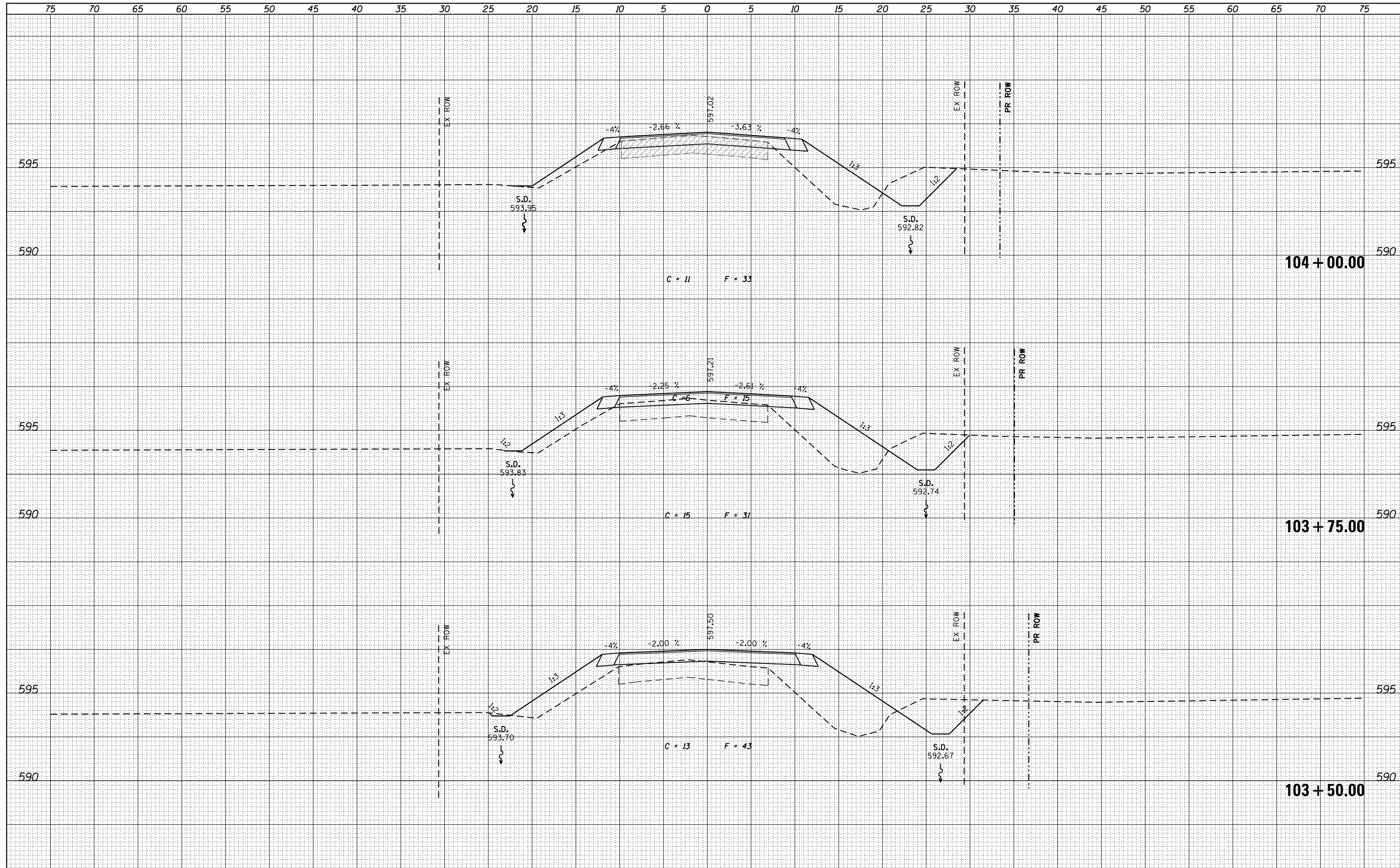
**CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH**

SCALE: 1" = 5' SHEET NO. 20 OF 23 SHEETS STA. 103+00.00 TO STA. 103+25.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	43
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

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

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



design firm
no. 184001036

whks
engineers + planners + land surveyors

USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

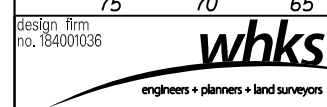
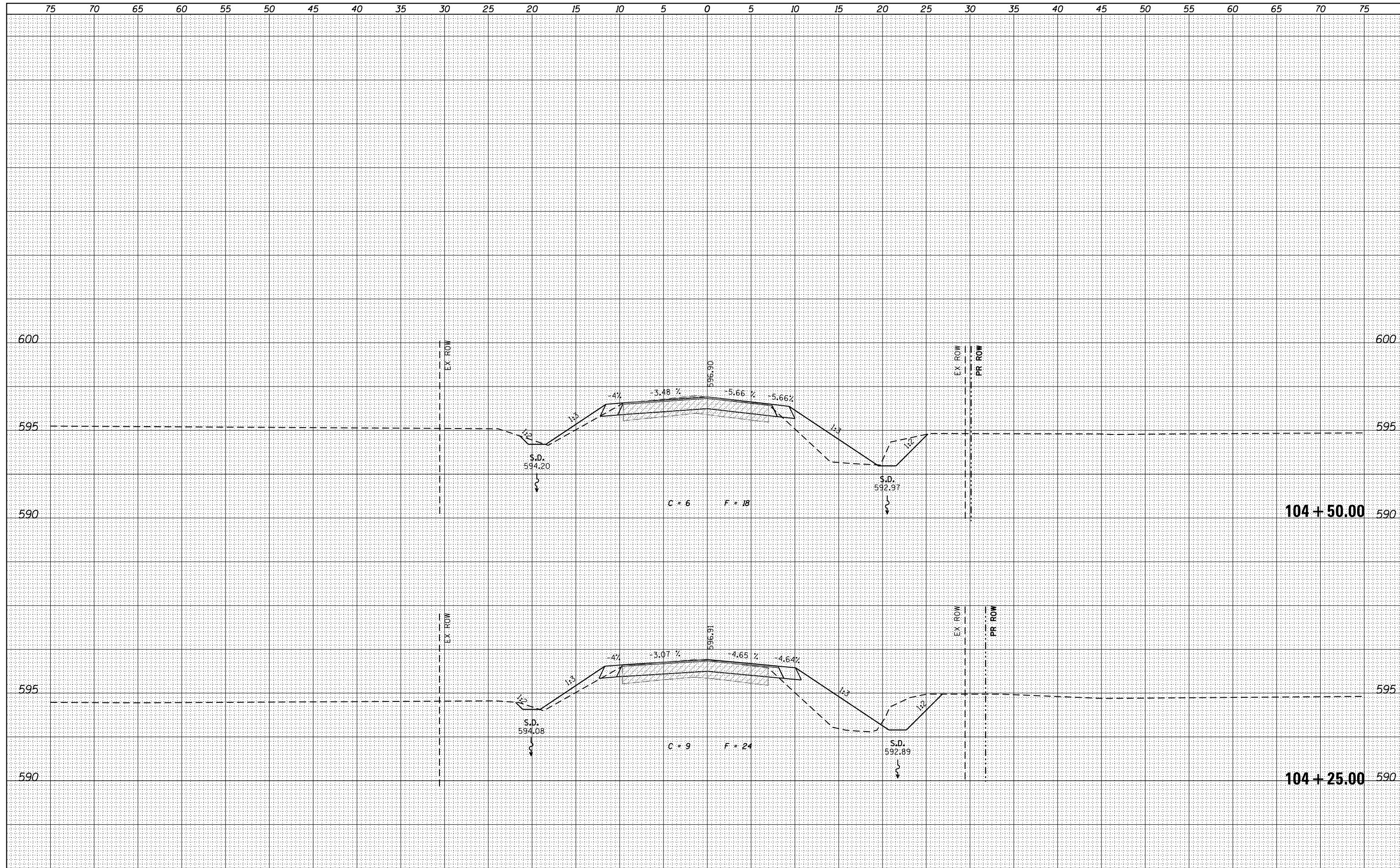
CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: 1" = 5' SHEET NO. 21 OF 23 SHEETS STA. 103+50.00 TO STA. 104+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	44
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

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

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



USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

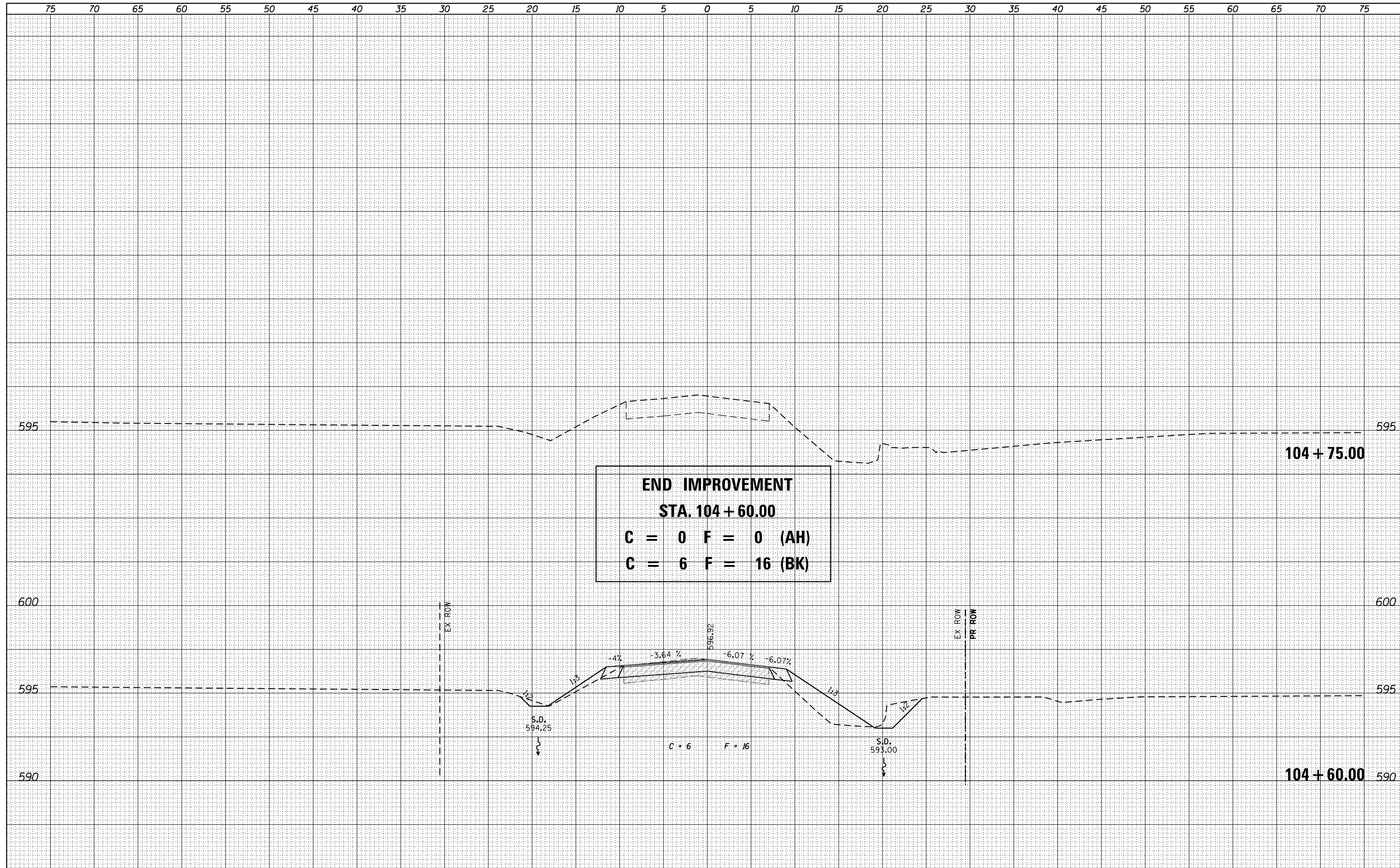
**CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH**

SCALE: 1" = 5' SHEET NO. 22 OF 23 SHEETS STA. 104+25.00 TO STA. 104+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	45
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

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

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



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_MAIN_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

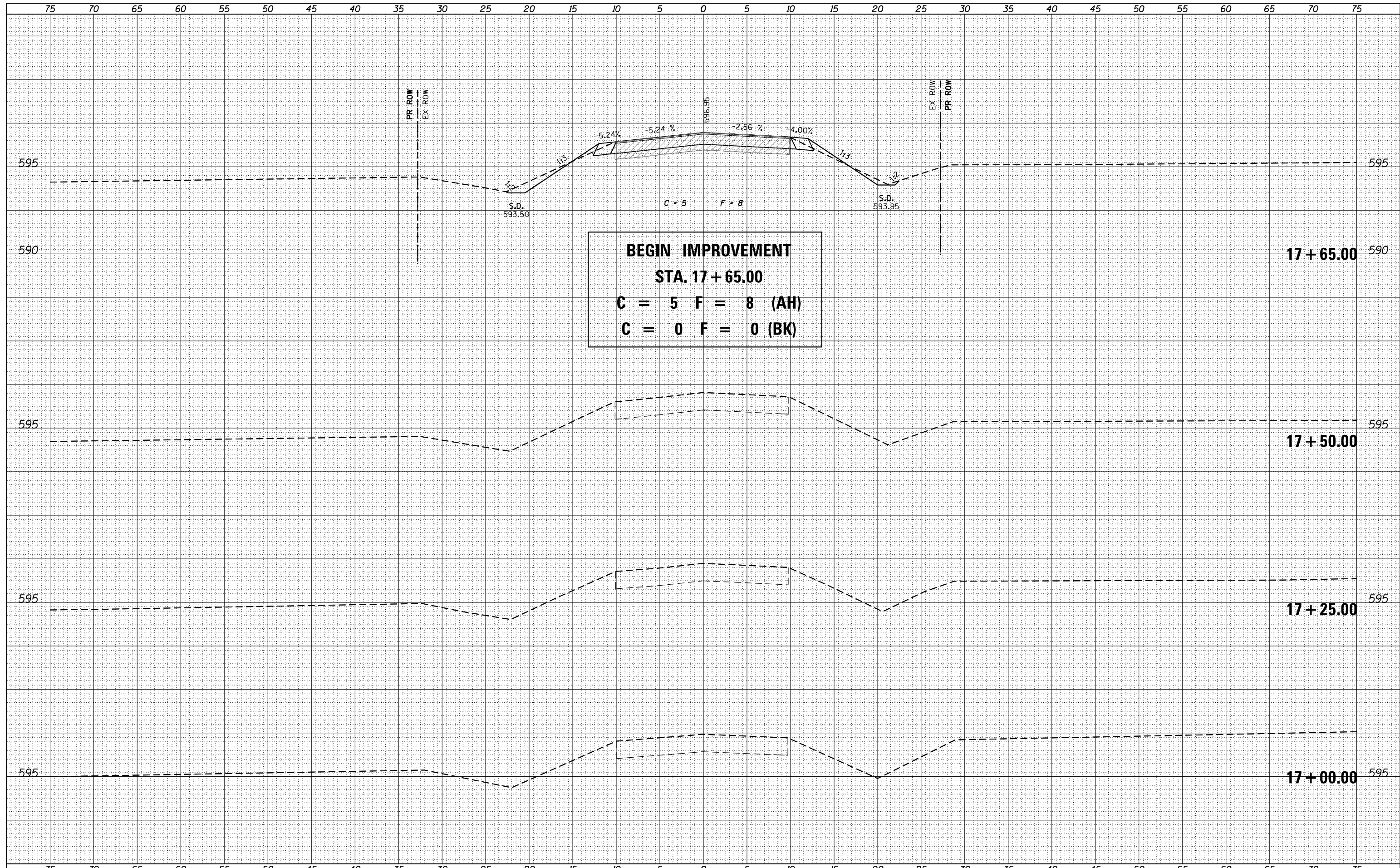
**CROSS SECTIONS (DAMERY ROAD)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH**

SCALE: 1" = 5' SHEET NO. 23 OF 23 SHEETS STA. 104+60.00 TO STA. 104+75.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	46
CONTRACT NO. 95874				
ILLINOIS FED. AID PROJECT				

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

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



BEGIN IMPROVEMENT
STA. 17 + 65.00
C = 5 F = 8 (AH)
C = 0 F = 0 (BK)

design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = g_jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_SR_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

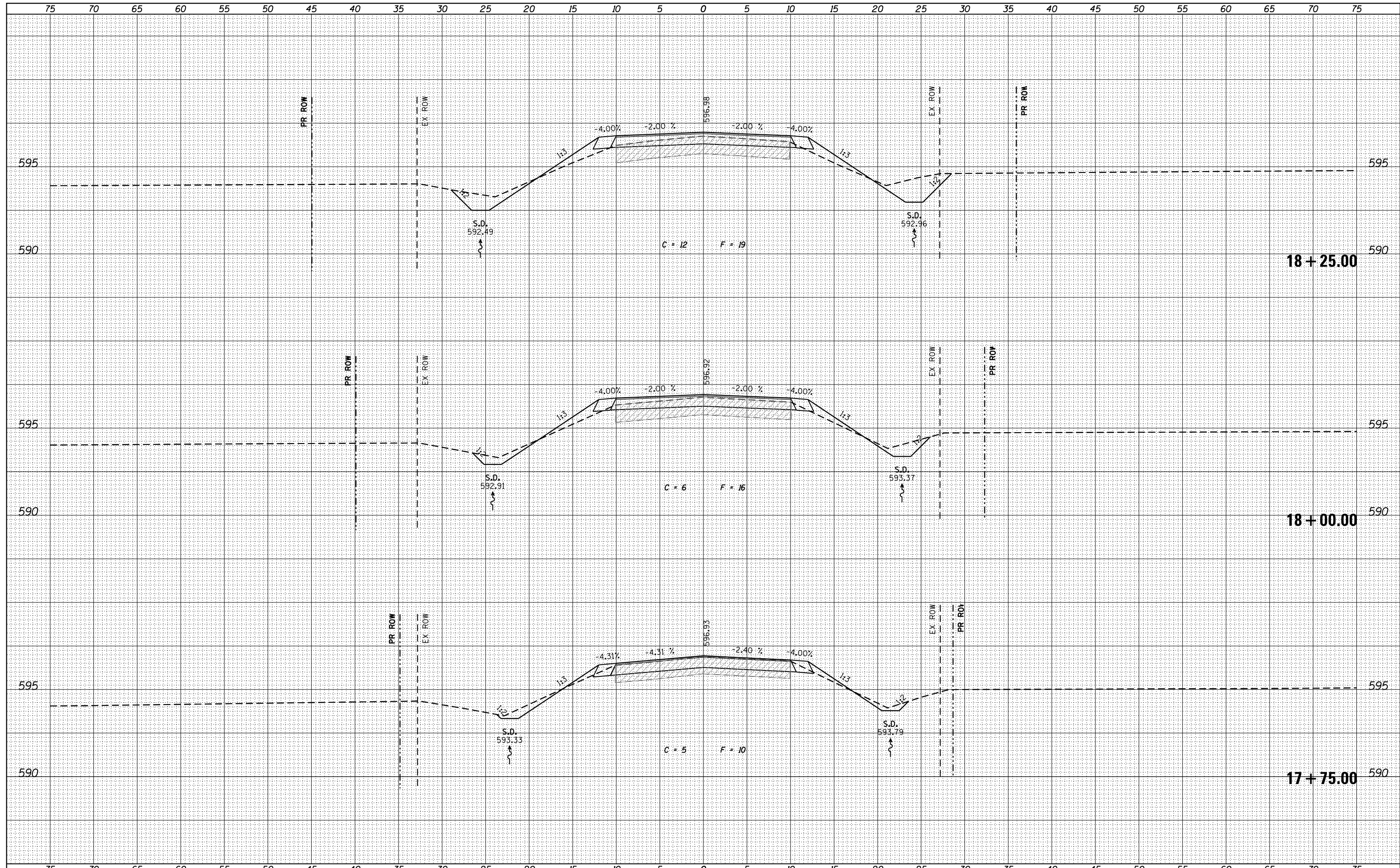
CROSS SECTIONS (LINCOLN MEMORIAL PARKWAY)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

SCALE: 1" = 5' SHEET NO. 1 OF 5 SHEETS STA. 17+00.00 TO STA. 17+65.00


F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	47
CONTRACT NO. 95874				
<small>ILLINOIS FED. AID PROJECT</small>				

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

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



design firm
no. 184001036



engineers + planners + land surveyors

USER NAME = g.jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_SR_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS (LINCOLN MEMORIAL PARKWAY)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH**

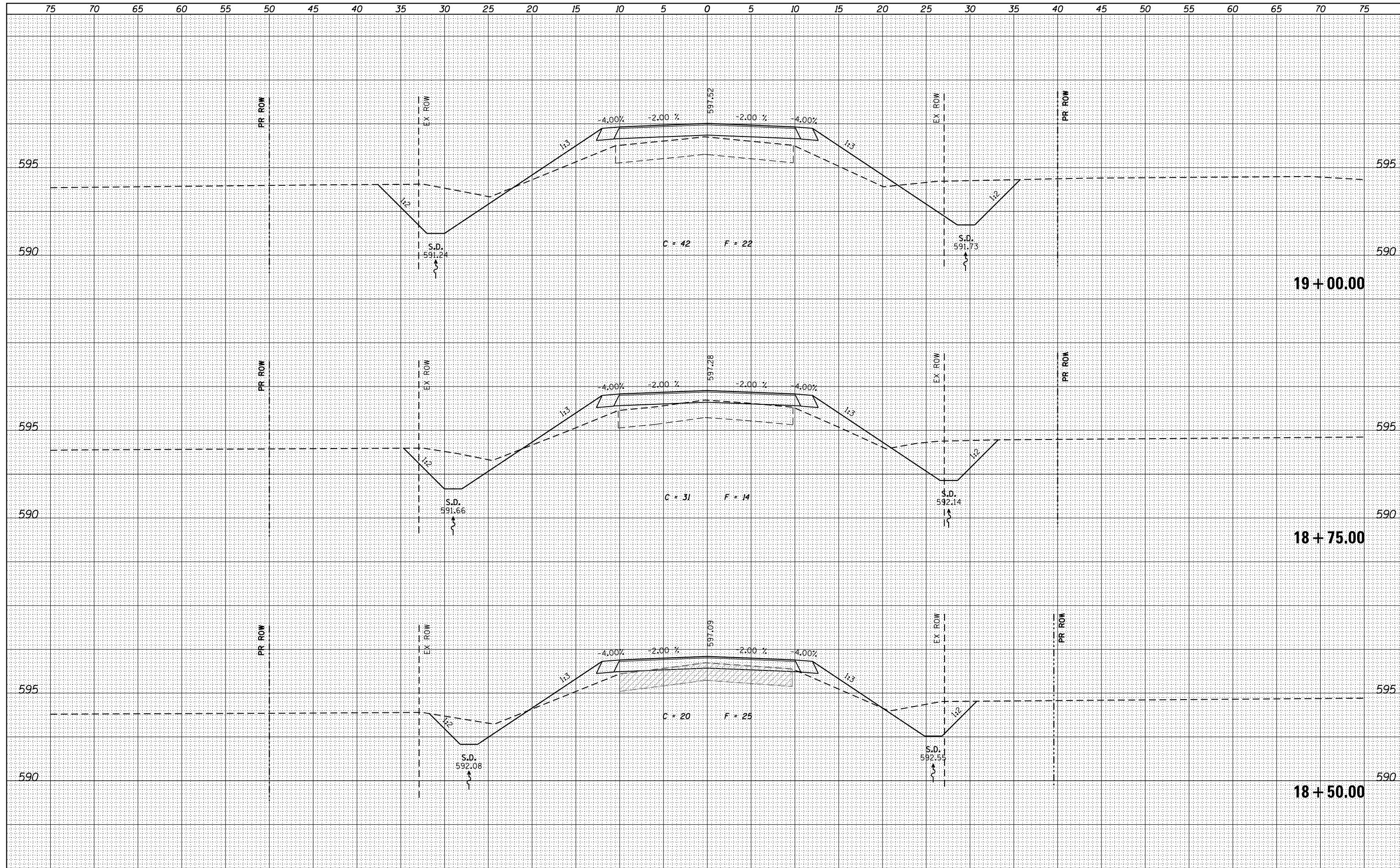
SCALE: 1" = 5' SHEET NO. 2 OF 5 SHEETS STA. 17+75.00 TO STA. 18+25.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	48
CONTRACT NO. 95874				

ILLINOIS FED. AID PROJECT

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



design firm
no. 184001036

engineers + planners + land surveyors

USER NAME = g_jameson	DESIGNED - BJJ	REVISED
FILE NAME = XS_SR_SHT.dgn	CHECKED - RKA	REVISED
PLOT SCALE = 10.000' / in.	DRAWN - GSJ	REVISED
PLOT DATE = 3/27/2020	CHECKED - BJJ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

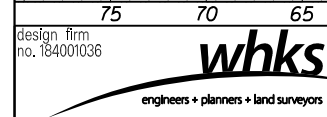
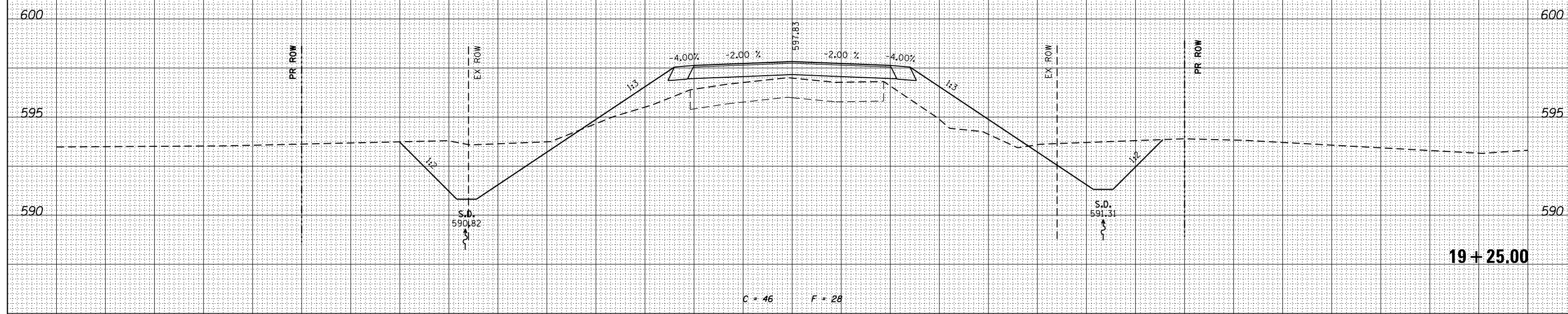
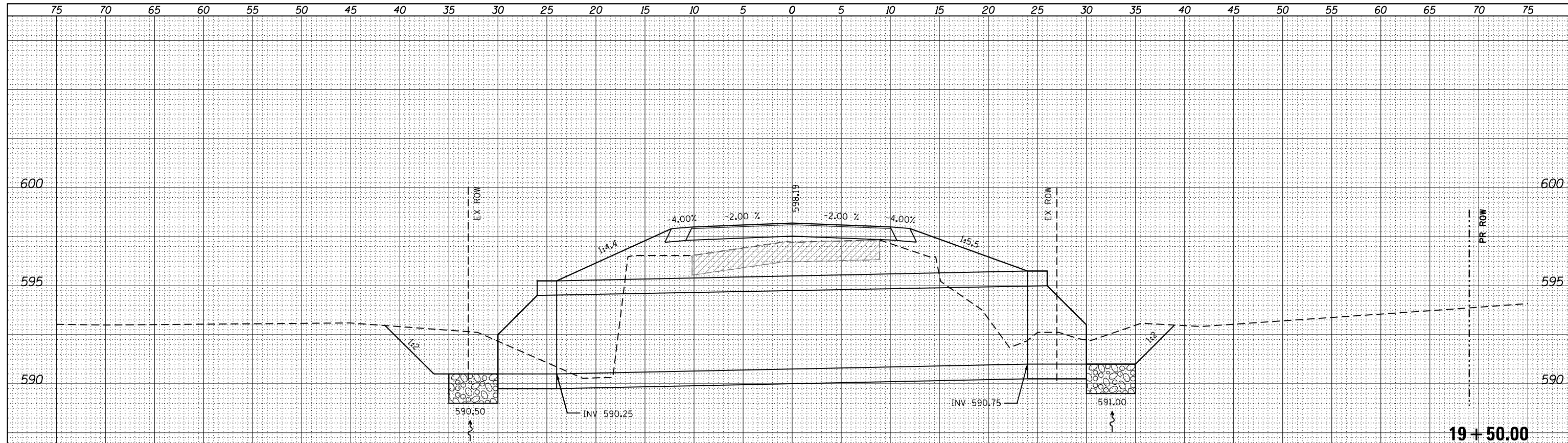
CROSS SECTIONS (LINCOLN MEMORIAL PARKWAY)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	49
CONTRACT NO. 95874				

SCALE: 1" = 5' SHEET NO. 3 OF 5 SHEETS STA. 18+50.00 TO STA. 19+00.00

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

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



USER NAME	= g.jameson	DESIGNED	- BJJ	REVISED	
FILE NAME	= XS_SR_SHT.dgn	CHECKED	- RKA	REVISED	
PLOT SCALE	= 10.000' / in.	DRAWN	- GSJ	REVISED	
PLOT DATE	= 3/27/2020	CHECKED	- BJJ	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS (LINCOLN MEMORIAL PARKWAY)
FAS 551 (CH 27) OVER SPRING CREEK & DITCH

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
551	15-00274-00-BR	MACON	51	50
CONTRACT NO. 95874				

SCALE: 1" = 5' SHEET NO. 4 OF 5 SHEETS STA. 19+25.00 TO STA. 19+50.00

ILLINOIS FED. AID PROJECT

