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EET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES
35	SUMMARY OF QUANTITIES
6-7	SCHEDULE OF QUANTITIES
8	TYPICAL SECTIONS
9	PLAN & PROFILE
10-16	PROPOSED BRIDGE PLANS
17	DETOUR PLAN
18-22	CROSS SECTIONS
23-26	EXISTING BRIDGE PLANS
27-29	BORING LOGS

000001-08	STD SYMBOLS, ABBREVIATIONS, & PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
442101-09	CLASS B PATCHES
515001-04	NAME PLATE FOR BRIDGES
630001-13	STEEL PLATE BEAM GUARDRAIL
701901-09	TRAFFIC CONTROL DEVICES
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICE: For construction on rural local highways
BLR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICE: FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (2L2W - ROAD CLOSED TO THRU TRAFFIC

FRONTIER COMMUNICATIONS FORT MASSAC WATER DISTRICT SOUTHERN ILLINOIS ELECTRIC COOP.



FILL SIZE ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123

2736 NORTH AVENUE

DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED SURFACE TRANSPORTATION PROGRAM **OFF SYSTEM BRIDGE PROJECT ZLEQ(688)** SECTION 21-00106-00-BR MASSAC COUNTY C-99-016-22



GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2022, (HERE IN AFTER REFERRED TO AS THEE STANDARD SPECIFICATIONS), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2024, THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE DETAILS IN THE PLANS AND THE "SPECIAL PROVIONS" INCLUDED IN THE DOCUMENTS.
- 2. ANY REFERENCE TO A HIGHWAY STANDARD THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD VERSION ISSUED BY THE DEPARTMENT.
- 3. FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT	112 LBS./SQ. YD./INCH
GRANULAR MATERIALS	2.05 TONS/CU. YD.
RIP RAP	1.50 TONS/CU. YD.

- 4. ANY SURPLUS EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR AS PER ARTICLE 202.03 AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 5. THE AREAS TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE EXISTING AND PROPOSED RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.
- 6. THE REMOVAL AND DISPOSAL OF ALL FENCING, DELINEATORS, SIGNS, DEBRIS, BRUSH, RIPRAP, STONE, CONCRETE SLABS, TILE, ETC. NOT PAID SPECIFICALLY IN THE PLANS SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 7. THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.
- 8. MEMBERS OF JULIE KNOWN TO BE NEAR THE LIMITS OF THE IMPROVEMENT ARE:

SOUTHERN ILLINOIS ELECTRIC COOP	FORT MASSAC WATER DISTRICT
FRONTIER	CLEARWAVE COMMUNICATIONS

COMMITMENTS

1. NONE AT THIS TIME.

USER NAME = gsmothers	DESIGNED -	REVISED -			CRESTWOOD ROAD	BRIDGE		C.H. RTE	SECTION	COUNTY	TOTAL S SHEETS	HEET NO.
	DRAWN -	REVISED -	STATE OF ILLINOIS			TEC		8	21-00106-00-BR	MASSAC	29	2
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	MASSAC COUNTY HIGHWAY DEPARTMENT	GENERAL NUTES				CONTRACT	NO.: 997	38		
PLOT DATE = 1/31/2024	DATE -	REVISED -		SCALE:	SHEET 6 OF 14 SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJEC	CT:	

		CONSTRUCTION CODE					
				FED 80%	FED 80%	FED 80%	
			I	ROADWAY	BRIDGE	PAVEMENT MARKING	
CODE			TOTAL	0003	0003	0003	
NO.	ITEM	UNIT	OUANTITY	RURAL	064-3157	RURAL	
20300100	CHANNEL EXCAVATION	CU YD	425	425			
20400800	FURNISHED EXCAVATION	CU YD	225	225			
25000200		1.CD.5	0.42	0.42			
25000200	SEEDING, CLASS 2	ACRE	0.13	0.13			
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	11.76	11.76			
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	11.76	11.76			
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	11.76	11.76			
25100115	MULCH, METHOD 2	ACRE	0.13	0.13			
20000100		FOOT	400	400			
28000400	PERIMETER EROSION BARRIER	FOOT	490	490			
28100207	STONE RIPRAP, CLASS A4	TON	143		143		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	390	390			
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	56	56			
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	56	56			
42000060	WELDED WIRE REINFORCEMENT		98	98			
+2000000							
44000100	PAVEMENT REMOVAL	SQ YD	98	98			

* SPECIALTY ITEM

	C.H. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
UANTITIES		21-00106-00-BR		MASSAC	29	3
				CONTRACT	NO. 99	9 <u>738</u>
TS STA TO STA		ILLINOIS	FED. A	ID PROJECT		

				CONSTRUCTION CODE		
				FED 80%	FED 80%	FED 80%
				LOCAL 20%	LOCAL 20%	LOCAL 20%
				ROADWAY	BRIDGE	PAVEMENT MARKING
CODE			TOTAL	0003	0003	0003
NO .	ITEM	UNIT	QUANTITY	RURAL	064-3157	RURAL
44000161		SO YD	526	526		
44000101	HOT HIT ASTHALT SOLLACE REMOVAL, S	50 0	020			
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SQ YD	98	98		
44201299	DOWEL BARS 1 1/2"	БАСН	40	40		
44201255		LACIT	40	40		
44213200	SAW CUTS	FOOT	46	46		
48101200	AGGREGATE SHOULDERS, TYPE B	TON	43	43		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50200100	STRUCTURE EXCAVATION	CU YD	80		80	
50300225	CONCRETE STRUCTURES	CU YD	25.1		25.1	
50300280	CONCRETE ENCASEMENT		37		37	
50500280			0.1		0.1	
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1528		1528	
50800105	REINFORCEMENT BARS	POUND	3910		3910	
50900205	STEEL RAILING, TYPE S1	FOOT	132		132	
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	546		546	
51202305	DRIVING PILES	FOOT	546		546	
DE	ESIGNED REVISED		[C.H. RTE
DF	RAVVIN KEVISED STATE UF	ILLINUI2			SOMINIARY OF QUANTI	8

* SPECIALTY ITEM

USER NAME = gsmothers	DESIGNED -	REVISED -					
	DRAWN -	REVISED -	STATE OF ILLINOIS		MMARY	MARY OF QU	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	MASSAC COUNTY HIGHWAY DEPARTMENT				
PLOT DATE = 7/23/2024	DATE	REVISED		SCALE:	SHEET	OF	SHEETS

	C.H. RTE.	SECTION	COUNTY TOTAL SHEETS		SHEET NO.	
UANTITIES	8	21-00106-00	MASSAC	29	4	
				CONTRACT	NO. 99	9738
S STA TO STA		ILLIN	OIS FED.	AID PROJECT		

			Γ		CONS
			[FED 80% LOCAL 20%	F LO
				ROADWAY	E
CODE			TOTAL	0003	
NO.	ITEM	UNIT	QUANTITY	RURAL	06
51203200	TEST PILE METAL SHELLS	EACH	1		_
51204650	PILE SHOES	EACH	8		
51500100	NAME PLATES	EACH	1		
50200100			10.4		
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	19.4		
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	400	400	
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4	4	<u> </u>
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
67100100	MOBILIZATION	L SUM	1	1	
					
/2501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	900		
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4		<u> </u>
70200000		- FACIL	14		
/8200006	GUARDRAIL REFLECIORS, IYPE B	EACH	14	14	<u> </u>
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	<u> </u>

* SPECIALTY ITEM

TRUCTION	CODE	
ED 80%	FED 80%	
CAL 20%	LOCAL 20%	
RIDGE	PAVEMENT MARKING	
0003	0003	
4-3157	BUBAI	
4-5157	NORAL	
1		
•		
8		
1		
10.4		
19.4		
	900	
	4	
	C.H. SECTI	ON COUNTY TOTAL SHEET

JANTITIES		C.H. RTE.	SEC	TION		COUNTY	SHEETS	NO.	
		8	21-0010	6-00-BR		MASSAC	29	5	
						CONTRACT	NO. 99	9738	
5	STA TO STA			ILLINOIS	FED. A	ID PROJECT			
									1

EARTHWORK

LOCATION STATION TO STATION	FURNISHED EXCAVATION 20400800 CU YD
166+50.00 IO 170+00.00	225
TOTAL	225

EROSION CONTROL

LOCATION/ STATION			RT/LT	SEEDING, CLASS 2 25000200	MULCH METHOD 2 25100115	NITROGEN FERTILIZER NUTRIENT 25000400 POLIND	PHOSPHORUS FERTILIZER NUTRIENT 25000500 POLIND	POTASSIUM FERTILIZER NUTRIENT 25000600 POLIND	PERMIMETER EROSION CONTROL BARRIER 28000400 FOOT	S
MASSAC COUNTY			/ IONE	, lone	1 00110	1 COND	1 00112	1001	F	
C.H. 8										Γ
166+50.56	TO	167+71.86	LT	0.02	0.02	1.65	1.65	1.65	126	Γ
166+50.56	TO	167+71.86	RT	0.03	0.03	2.77	2.77	2.77	118	
167+71.86	TO	168+32.08								
168+32.08	TO	169+50.54	LT	0.04	0.04	3.68	3.68	3.68	123	Ē
168+32.08	TO	169+50.54	RT	0.04	0.04	3.66	3.66	3.66	124	Ē
		TOTALS		0.13	0.13	11.76	11.76	11.76	490	

GUARDRAIL

LOCATION STATION TO STATION	SIDE	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS 63000001 EOOT	TRAFFIC BARRIER TERMINAL, TYPE 5A 63100075 EACH	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT 63100167 EACH	GUARDRAIL REFLECTORS, TYPE B 78200006 EACH	TERMINAL MARKER - DIRECT APPLIED 72501000
MASSAC COUNTY		1001	Extern	Entern	Erton	Entorn
C.H. 8						
165+44.98 TO 167+73.35		200.0	2	2	7	2
168+30.58 TO 170+58.70		200.0	2	2	7	2
	TOTAL	400.0	4.0	4.0	14.0	4.0

USER NAME = gsmothers	DESIGNED	REVISED -				CRESTWOOD	ROAD		C.H. RTE	SECTION	COUNTY	TOTAL S SHEETS	HEET NO.
	DRAWN	REVISED -	STATE OF ILLINOIS SCHEDULES 8 21-001C		SCHEDUUES		21-00106-00-BR	MASSAC	29	6			
PLOT SCALE = 100.0000 ' / in.	CHECKED	REVISED -	MASSAC COUNTY HIGHWAY DEPARTMENT	SUNEDOLES					CONTRACT	NO. 997	/38		
PLOT DATE = 7/22/2024	DATE -	REVISED -		SCALE:	SHEET	OFSHEETS	STA	TO STA.		ILLINOIS FED. AI	D PROJECT		



PAVEMENT MARKINGS

	TOTAL	600	300	4
166+50.56 TO 169+50.54		600	300	4
С.Н. 8				
MASSAC COUNTY				
		FOOT	FOOT	EACH
		78001110	78001110	78100100
STATION TO STATION	DESCRIPTION		LINE 4	MARKERS
LOCATION		MARKING -	MARKING -	PAVEMENT
		PAVEMENT	PAVEMENT	REFLECTIVE
		PAINT	PAINT	

PAVEMENT

LOCATION STATION TO STATION	HOT-MIX ASPHALT BINDER COURSE, IL- 9.5, N70 40602985 TON	HOT-MIX ASPHALT SURFACE COURSE, IL- 9.5, MIX "C", N70 40604052 TON	CLASS B PATCHES, TYPE III, 10 INCH 44200974 SQ YD	*BITUMINOUS MATERIALS (TACK COAT) 40600290 POUND	WELDED WIRE REINFORCEMENT 42000060 SQ YD	PAVEMENT REMOVAL 44000100 SQ YD	HOT-MIX ASPHALT SURFACE REMOVAL, 3" 44000161 SQ YD	DOWEL BARS 1 1/2" 44201299 EACH	SAW CUTS 44213200 FOOT	AGGREGATE SHOULDERS, TYPE B 48101200 TON
166+50 TO 167+69.20	28	28		198			293		11.4	17
167+49.21 TO 167+69.20	0	0	49		49	49		20.0	11.4	5
BRIDGE										
168+34.78 TO 168+54.79	0	0	49		49	49		20.0	11.4	5
168+34.78 TO 169+50	28	28		192			233		11.4	16
TOTAL	56	56	98	390	98	98	526	40	46	43

USER NAME = gsmothers	DESIGNED	REVISED -				CRESTWOOD ROAD		C.H. RTE	SECTION	COUNTY	TOTAL SHEE SHEETS NO	T
	DRAWN -	REVISED -	STATE OF ILLINUIS	SCHEDULES			8	21-00106-00-BR	MASSAC	29 7		
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	MASSAC COUNTY HIGHWAY DEPARTMENT						CONTRAC	T NO. 99738		
PLOT DATE = 7/23/2024	DATE	REVISED -		SCALE: SH	HEET	OF SHEETS STA	TO STA		ILLINOIS FED. A	D PROJECT		



ROAD		.H. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
SECTIONS	8	21-00106-00-BR			MASSAC	8	
520110113	CONTRACT NO.: 9			NO.: 99	9738		
STA. TO STA.			ILLINOIS		FED. AID PROJ	ECT:	





GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

LOADING HL-93 Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

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

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi

fci = 5,000 psi

 $fpu = 270,000 \text{ psi} (\frac{1}{2})^{\circ} \emptyset \text{ low lax. strands}$ $fpbt = 201,960 psi (\frac{1}{2}" \emptyset low lax. strands)$

fy = 60,000 psi (Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 3 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.46 Design Spectral Acceleration at 0.2 sec. (SDS) = 1.07 Soil Site Class = D

TOTAL BILL OF MATERIAL

		_		
ITEM	UNIT	SUPER	SUB	TOTAL
prap, Class A4	Ton		143	143
ing Structures	Each		1	1
tion	Cu. Yd.		80	80
res	Cu. Yd.		25.1	25.1
nent	Cu. Yd.		3.7	3.7
ed Concrete Deck Beams (27" Depth)	Sq. Ft.	1528		1528
nrs	Pound		3910	3910
pe S-1	Foot	132		132
Shell Piles 12"X0.25"	Foot		546	546
	Foot		546	546
Shells	Each		1	1
	Each		1	1
trength Material	Cu. Yd.		19.4	19.4
	Each		8	8



PROFILE GRADE (Along @ Rdwy.)

<u>GENERAL PLAN & ELEVATION</u>
CRESTWOOD ROAD OVER
BARNES CREEK
<u>C.H. 8 - SEC. 21-00106-00-BR</u>
<u>MASSAC COUNTY</u>
<u>STATION 168+01.44</u>
<u>STRUCTURE NO. 064-3157</u>

ELEVATION		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		21-00106	5-00-BR		MASSAC	29	10
004-3137					CONTRAC	CT NO. 9	9738
			ILLINOIS	FED. AID	PROJECT		



Bar	No.	Size	Length	Shape
A(E)	20	#4	3'-7"	
A1(E)	38	#4	3'-10''	~-
B(E)	16	#3	32'-5''	
B1(E)	9	#3	22'-2"	_
B2(E)	4	#3	10'-0''	_
S(E)	85	#4	8'-5"	С
S1(E)	8	#4	6'-11''	J
S2(E)	79	#4	7'-2"]
S3(E)	10	#4	5'-8''	L
S4(E)	10	#4	4'-11''	
U(E)	12	#5	4'-6"	
U1(E)	4	#4	7'-1"	

ECK BEAM		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
064_3157	8	21-00106-00-BR			MASSAC	29	11
004-3137					CONTRA	ACT NO.	99738
			ILLINOIS	FED. AID	PROJECT		



6/29/2023 - 10.0560537AMM



PLOT DATE =

CHECKED -

GBR

REVISED

See sheet 12 of 29 for fabric bearing pad details. See sheet 14 of 29 for Steel Railing, Type S-1.

E DETAILS		SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
064_3157	8	21-00106-00-BR			MASSAC	29	13
004-3137					CONTRA	ACT NO.	99738
			ILLINOIS	EED AID			



6/29/2023 - 10055066AMM





BILL OF MATERIAL - TWO ABUTS.

Bar	No.	Size	Length	Shape
h	64	#4	6'-8''	
h1	16	#5	27'-0"	
h2	8	#5	7'-1"	
р	28	#7	26'-2"	
S	44	#5	11'-7"	
s1	4	#5	11'-9''	
s2	8	#5	6'-2"	
53	16	#5	3'-8''	Ĵ
u	16	#6	11'-3''	
V	104	#5	4'-0''	·
v 1	16	#5	7'-8"	
v2	16	#5	5'-0''	
Structu	ire Exc	avation	Cu.Yd.	80
Concret	te Stru	ctures	Cu.Yd.	25.1
Reinfor	cement	Bars	Pound	3910
Furnisł	ning Me	tal	Foot	546
Shell P	Piles 12	"x0.25"	1 000	5.10
Driving	Piles		Foot	546
Test Pi	le Meta	al Shell	Each	1
Concret	te Enca	sement	Cu. Yd.	3.7

Notes:

For details of piles and Concrete Encasement, see sheet 16 of 29.

Cast backwall and tops of wingwalls after beams have been erected.

NTS		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
064-3157	8	21-00106-00-BR			MASSAC	29	15
					CONTRACT I	NO. 9973	38
			ILLINOIS	EED AID	PROJECT		





Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.250"	31.37	0.0267
<i>PP14</i>	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

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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 80-50 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



DETAIL A



- Notes: The $\frac{1}{8}$ " x $\frac{1}{2}$ " min. fill bar may be constructed of
- 2 bars with a $\frac{1}{6}$ " max. gap between them.
- Pile segments shall be driven to solid contact with







Metal shell pile

inclination of 60°.

Shop or \setminus field weld

Pile shoe shape may vary. Shallower pile shoes are allowed provided that

the driving surface has an angle of





s

Note:

 $s = t - \frac{1}{16}$

COMPLETE PENETRATION WELD SPLICE

Metal shel

pile

* 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.



field weld

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

ult /064	F-MS	1-1-2020			Article 1006.05	of the Standard Specifications.		
T. etar	BACON FARMER WORKMAN	USER NAME =	DESIGNED – JMK	REVISED -		METAL SHELL PL		
- W	Image: Constraint of the second sec		CHECKED - GBR	REVISED -	STATE OF ILLINOIS			
I S E		PLOT SCALE =	DRAWN - JMK	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU		
MO		PLOT DATE =	CHECKED - GBR	REVISED -				

6/29/2023 - 100551155AMM

weld).

60°

60° Angle of

inclination

F-MS

64-

ILLINOIS FED. AID F

DETOUR SIGNING DETAIL





TO STA.

USER NAME = rneiheisel	DESIGNED -	REVISED -		CBESTWOOD						
	DRAWN -	REVISED -	STATE OF ILLINOIS MASSAC COUNTY HIGHWAY DEPARTMENT							
PLOT SCALE = 0.1088 / in.	CHECKED -	REVISED -		1		DETOOR	SIGNING	DETA		
PLOT DATE = 6/29/2023 - 10:50:00 AM	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.		

<u>46</u>5 ¹⁵⁰ cææe SURVE PLOTT TEMPL AREAS FINAL SURVEY NOTE BOOK CUT: 0.00 FILL 0.00 SQ FT SQ FT 465 ¹⁵⁰ <u>6</u>3 03 857 420% -1.50% -1.50% -4.00% ÷÷.÷ CUT. 1.66 SQ FT FILL 18 11 SQ FT <u>465</u> ¹⁵⁰ 94 4.00% +1.50% -1.50%-4.00% SURVI PLOT TEMP AREAV ORIGINAL SURVEY NOTE BOOK CUT. 2.73 SQ FT FILL 25.44 SQ FT JSER NAME = gsmothers DESIGNED REVISED CRESTWOOD ROAD STATE OF ILLINOIS DRAWN REVISED **CROSS SECTIONS** PLOT SCALE = 20.0046 ' / in. CHECKED REVISED MASSAC COUNTY HIGHWAY DEPARTMENT PLOT DATE = 5/28/2024 DATE REVISED SCALE: 1"=10' SHEET ____







n	KUAD						SHEETS	NO.
IONS		8	21-00106-00-BR		MASSAC	29	20	
						CONTRACT	NO. 99	9738
5	STA. <u>168+00.00 R1 TO STA. 168</u> +25.00 R1			ILLINOIS	FED. AI	D PROJECT		



USER NAME = rneiheisel	DESIGNED -	REVISED -			
	DRAWN -	REVISED -	STATE OF ILLINOIS		
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -	MASSAC COUNTY HIGHWAY DEPARTMENT		EXISTING BRID
PLOT DATE = 6/29/2023 - 10:51:19 AM	DATE -	REVISED -		SCALE:	SHEET 6 OF 14 SHEET

USER NAME = rneiheisel	DESIGNED -	REVISED -		CBE		ESTWO
	DRAWN -	REVISED -	STATE OF ILLINOIS	EVICTING		
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -	MASSAC COUNTY HIGHWAY DEPARTMENT	1	E)	XISTING
PLOT DATE = 6/29/2023 - 10:51:25 AM	DATE -	REVISED -		SCALE:	SHEET 6	OF 14

	USER NAME = meiheisel	DESIGNED - DRAWN -	REVISED -	STATE OF ILLINOIS	CRESTWOOD ROA
0. 1				$10 \qquad 11 \qquad 12 \qquad 13 \qquad 14$	
n an	Diann H.L.F.ISC Concern Concern Concer	HER WELL Subject	Bry Espen D.L. DEFLECTION DIAG G. CAMDERBR/	CE SPLICE CAP SPLICE	Back of Cap - Rods. <u>DETAILS OF RAIL BENDS</u> Name Plate
		25-7-25-7-22- 3-548 25-7-2-22-22- 3-548 25-7-2-22-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1-22- 1-5-1		PLAN 3 # de	io(w:2)*** ioin 1 DiaphRagm*2 0 1/62*** 0 1/62*** 0 1/62*** 0 1/62*** 0 1/62*** 0 1/62*** 0 1/62*** 0 1/62*** 0 1/64*** 0 1/64*** 0 1/64*** 0 1/64*** 0 1/64**** 0 1/64**** 0 1/64***** 0 1/64***************
	24. 24. 24. 24. 24. 24. 24. 24.	India construction of the second seco	Cut as a bara tofit - Uso remainder at opp end s. 	stope /g in /2 FL prains @ ± 9 ¹ 0 cfs.	Bofts R only Anne PLATE DETAILS Conf E G 3 k / 2 Conf E G 3 k
	<u> </u>	20 10 10 10 10 10 10 10 10 10 1	de of Rozoway <u>e</u> of Rozoway <u>e</u> of Rozoway <u>e</u> of Rozoway <u>e</u> of Rozoway <u>e</u> of Rozoway <u>e</u> of Rozoway	Sta 31+20, Sta 31+20, Cr Elev 192; 0.97 Earborn 193; 0.97 Earborn 194; 0.97 Earborn	1 0 0 0 1 3 3 3 3 3 3 3 3 3 3 3 3 3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		E Barring	ore: Use disphragm*1 each rail pool eacept acute corners of al al outside stringer	a distant of a start o	CORNER DETAILS
	Place Down men B 1 5' belon Un alisturosed Earth 15' 2 Spaces e	349 3/11 6 + - 310	Spise with 12 taiload on enh fire special forovisions Stream Bed Elev. 93.0 Man ELEVATION	Wing Piles Est Length 190 Start Length 190 St	Caps and guardraits shall be rough, Plank backing shall be Backing, braing and caps may lumber and hardware based o splice material. No ettra compo Silect. Re. vashers Sholl Included os Hardw
	sin Beckere	A	High Water Elev 99.75 Elev. 10020	Stud shimi Stud s	All spikes, furbuckies and k washer's shall be used on own expense all rods which pu All piles in structure shall b Drive Teel piles of all Drive Teel piles of all the structure shall be the structure shall be the structure shall be the structure shall be all lumber shall be treated was square adge and sound low sound shart leaf (log -) kilow
	B.M. Mail. in Rost 25" Sta: 33400 Ever. 100 Sta: 35400 Ever. 100 Swort Mass Swort Mass Swort Mass Swort Mass State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State State	Oak, 150'Lt. 100'	to Beck of Abuts on & Roadway 2 Spa 0 7-6- 5 (LSI3): % Ship [-6" (15.3")	STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS 3'.10'. IH\$SA5.(unfr.) Cong' wing	Parapet walls outside loar slab shall be built up to same height as wing backing:
Million 201	and service the set of	The state of the second second second	경제가 다양 관계 아파는 것 것 같아요. 것이 같아요.		and the second

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-	USER NAME = meiheisel	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS		CRES	TWOOI	D ROA
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	MASSAC COUNTY HIGHWAY DEPARTMENT		EXIS	STING	BRIDG
	PLOT DATE = 6/29/2023 - 10:51:32 AM	DATE -	REVISED -		SCALE:	SHEET 6	OF 14	SHEETS

				521 5	
NERAL NOTES Field conno. See Spect HEET Ised throughout. Provisions is the provisions intervent of the sector of t	NO. / ETS.	2 5			
in shop; align, matchmark and leave assembled t uctural steel by III. Div of Highways before pair is one shop coat of blue lead paint and two field	ting. coats				
o be turnished by the Contactor - concrete shall not be painted - ssible surfaces.	0.2%				
hall be threaded 6 each end except as noted lag screws shall be galvanized steel. O.G. or not nods thru piles. Contractor shall cut off a	Steel R.				
project more than one inch beyond nut. be treated. and shall have metal caps noted by the Engineer before ordering filing. f	nes-in	an share and share			
panetration of 10 test below undistumbed confi f 10 tone. Pulse in abutments to be chosen to a rel of stream and have a minimum apacity of the stream and have a minimum apacity of	tons.				
accept 3:10 guard rail. An initial stain of 3: ong kaf (600°) or dense structural square edge i Pine, or select structural (1600°) Douglas Fin ba 5:45 All other lumber shall be full	and	en e			
e fastened to each pile with two 60d Spikes. By be furnished full length or spliced. Quantitie on sizes and lengths shown and do not include	as of				
bensation will be allowed for splices or waste be 02 % Copper bearing Steel, and Ware.	ore	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
t Roadway	n -				
Arrown and Distant					
Sp.@72-10 cd - 2"bars 18 ds d c bors <					
Long		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -			
Ar 24" Steel R. Fi bolt. Washers 2					
4. Regd					
acing 2; +, 2:0 Rod				5 a.	
- 8 Ragd.					
Backing. YO Required each abut					
nsions are at RI. Is to & Rdwy CROSS SECTION H 15 40A	DINGS				
BILL OF MATERIAL SIZE LENGTH Treated Lumber F.B. 5/00 2343" Untreated Lumber F.B.	M 3870				
14" 23-3" Treated Piling 13'ls. Lin. 1," 32:6" Piling 19'ls. Lin.	H 130 H 228				
24-9 Sering Files Each 2"" 3:6 Test Piles Each Removal of Exist Struct Each	h None				
e Cu. Yds. 18.5 cl. Lbs. 0710 S.A. RT. 8 - 560	11:8-MFZ				
1 Lbs. 17/40 Lbs. 290 Massarc Lbs. 480 Str. 31 +20	¢o				
s Each B Each I					
Standard	145-R				
		•	All and a second se		
		un hun hun hur e		ap and one of	
19 20 21	22	23	24		
	and a second				
AD BRIDGE	C.H. RTE.	SECTION 21-00106-00-BR	COUNTY	TOTAL S SHEETS 29	HEET NO.
s sta. to sta.		ILLINOIS	CONTRACT	NO: 997	38

USER NAME = rneiheisel	DESIGNED -	REVISED -			CRESTWOOD BOAI	D BRIDGE		C.H. RTE	SECTION	COUNTY	TOTAL	SHEET NO.
	DRAWN -	REVISED -	STATE OF ILLINOIS					8	21-00106-00-BR	MASSAC	29	26
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -	MASSAC COUNTY HIGHWAY DEPARTMENT			- FLANS				CONTRAC	T NO.: 9	9738
PLOT DATE = 6/29/2023 - 10:51:37 AM	DATE -	REVISED -		SCALE:	SHEET 6 OF 14 SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PRO	JECT:	

1-1-1

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., N.S.

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10DEL: Default ILE NAME: ...\CAD <u>5</u>

ROUTE CH 8 DF	SCRIP				Crestwood Road Bridge	OGG	ED BY	M. Ka	aufman	ROUTE	CH 8	DESC	RIPTI	ON	
SECTION 21-00106-00-BR				SEC	11 TWP 14S RNG 6F					SECTIO	21-00106-00-BE	~ 2200			-
	LC			Latitu	ide 37.232600, Longitude -88.631510		Δ1			COUNT					
COUNTY Massac DRILLIN										COUNT				<u> </u>	_
STRUCT. NO. 064-3157 (prop) Station	E P	L D	U C S	M 0 1	Surface Water Elev ft Stream Bed Elev ft	E P	L D	U C S	M 0 Ⅰ	STRUCT Station	T. NO. 064-3157 (prop) n	_) 8 2 L 2 C)	
BORING NO. B-1	T H	W S	Qu	S T	Groundwater Elev.:	T H	W S	Qu	S T	BORING	G NO . <u>B-1</u> 9+48	_	Г W H S	/ ; (G
Offset 14.0 ft LT	(ft) ((/6'')	(tsf)	(%)	Upon Completion ft	(ft)	(/6'')	(tsf)	(%)	Offset	14.0 ft LT	(ft) (/6	") (f	b
CRUSHED ROCK - 3 INCHES (455.75		5	(131)	(70)	LOAM: Dark yellowish brown,	(10)	7	((31)	(70)	LOAM: I	Light brownish gray, moist,	_ " [4		_
LOAM: Brown, moist, stiff [A-6]		6 7		5	moist, very stiff [A-6]		11 11		11	very stift	f to hard [A-6] <i>(continued)</i>		9		
					400 50							_	_		
		5			SANDY CLAY: Light yellowish	<u> </u>	2		4.4			_			
		7		1	moist, stiff to hard [A-6]	_	3	0.8 S	14				_		
451.00	-5					-25	-					411.00	45		
SILTY CLAY LOAM: Brown, moist_stiff to very stiff [A-6]	_	4		6		_	5	0.9	14	SANDY gray mo	LOAM: Light brownish		3		_
		6				_	8	S	14	gray, me		_	6		_
												_			
		6 9		6			8 19		15			_	_		
		9					16					_			
Shelby tube pushed from 10 to	-10				426.00	-30						406.00	50		
LOAM: Dark vellowish brown.	<u></u>	13			LOAM: Light brownish gray, moist, very stiff to hard [A-6]	_	8		10	gray to g	SAND: Light brownish gray, moist, medioum	_	2	1	-
moist, hard [Á-6]	_	18 24		10		_	17			dense to	o dense [A-2]		22	2	-
443.50		з										_			
brownish gray, moist, medium stiff		3	1.3	19		_						_			
		3	В									_			
	-15	3				-35	4						55 3		
	_	3 4	1.0 B	19			7		14			_	5	5	-
	_											_			-
		2				_						_			
	-	16 19		18		_							_		
							1					_			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

The Unconfined Compressive Strength (UCS) Failure Mode The SPT (N value) is the sum of the last two blow values in

USER NAME = gsmothers	DESIGNED -	REVISED			CRESTWOOD	ROAD		С.Н.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN	REVISED -	STATE OF ILLINUIS		SOU BORIN	201		8	21-00106-00-BR	MASSAC	29	27
PLOT SCALE = 40.0000 ' / in.	CHECKED	REVISED -	MASSAC COUNTY HIGHWAY DEPARTMENT		3012 80111					CONTRACT	NO 99	738
PLOT DATE = 5/24/2024	DATE	REVISED -		SCALE:		STA	TO STA		ILLINOIS	FED. AID PROJ	ECT:	

Page <u>2</u> of <u>3</u>

SOIL BORING LOG Date 9/13/22

LOGGED BY M. Kaufman

Crestwood Road Bridge

LOCATION _, SEC. 11, TWP. 14S, RNG. 6E, Latitude 37.232600, Longitude -88.631510 ETHOD HSA HAMMER TYPE

THOD			HSA HAI	MMER TYPE		Al	ЛО	
B L O W S	U C S Qu	M O I S T	Surface Water Elev Stream Bed Elev Groundwater Elev.: First Encounter	ft ft 395.0ft.▼	D E P T H	B L O W S	U C S Qu	M 0 5 T
(/6'')	(tsf)	(%)	Upon Completion After Hrs	ft ft	(ft)	(/6")	(tsf)	(%)
4		10	LOAMY SAND: Light brown	sh		3		- 0.1
9 9		10	dense to dense [A-2] (contin	n uued)	<u> </u>	9 6		24
						-		
				391.0	0 -65	-		
3		22	SAND: Light gray, wet, loose	e to		3		26
6		22	medium dense [A-2]			9 12		20
5					-70	2		
21 22		15				3		22
					_			
3					-75	0		
5 10		25				2 5		30
					_			
					_			
				376.0	0 -80			
Failur	e Mod	e is in each	licated by (B-Bulge, S-Shear sampling zone (AASHTO T2)	, P-Penetrom	neter)			
. vv vd		cauli	Sampling Zone (AAOITTO 120	~~)				

BBS, form 137 (Rev. 8-99)

	CH 8	DES	CRIPTIC	N		Crestwood Road Bridge LOGGED B	M. Kaufman	ROUTE CH 8 DE	SCR		N
SECTION	21-00106-00-BR	2	1.00		SEC	11 TWP, 14S RNG, 6F		SECTION 21-00106-00-BR			
	Massac DR			n n	Latitu	ie 37.232600, Longitude -88.631510 HSA HAMMER TYPE A	што	COUNTY Massac DRILLING		тног	ອ າ
		. <u></u> б		- <u> </u>	м						· _
Station	064-3157 (prop) 	_	E L P O	C S	0	Surface Water Elev ft Stream Bed Elev ft		STRUCT. NO64-3157 (prop) Station	EP	LO	
BORING NO Station Offset	B-1 9+48 14.0 ft LT	_	H S	Qu	5 T	Groundwater Elev.: First Encounter 395.0 ft ⊻ Upon Completion ft		BORING NO. B-2 Station 10+45 Offset 12.0 ft RT	Ĥ	S	0
Ground Surfa	ce Elev. 456.00	ft	(ft) (/6'	') (tsf)	(%)	After Hrs ft		Ground Surface Elev. 456.00 ft	(ft)	(/6")	(t
JANDY LOAM: itiff [A-2]	Light gray, wet,	_	4		25			EXISTING FILL: Dark brown to gray, clay loam with crushed rock, moist medium stiff		3 3 3	-
		-									
		_	_							2	+-
		_								4	+
		371.00	-85					451.00	-5	-	
AND: Lighty g 2]	ray, wet, dense	-	4		25			brown, medium stiff to hard [A-6]		3	-
		-									
		_								6 20	+.
		_	_						_	22	+
		_	-90					446.00	-10		
		-	12 28		21			LOAM: Light brownish gray to brownish yellow, moist, very stiff [A-6]		0 7 14	-
		_	_								
		_	_							4	+
		_								16	
			-95					441.00	-15		
			_					SANDY CLAY LOAM: Brownish yellow, moist, very stiff [A-6]	_	8 15	+-
nd of Boring		359.50							_	6	+
Ind of Boring		-						438.50			
		-						brownish gray, moist, medium stiff		3	0
		-	_							4	+
		-	100						-20		

USER NAME = gsmothers DESIGNED -REVISED -CRESTWOOD STATE OF ILLINOIS DRAWN -REVISED -SOIL BORI PLOT SCALE = 40.0000 ' / in. REVISED -MASSAC COUNTY HIGHWAY DEPARTMENT CHECKED -____ PLOT DATE = 5/24/2024 DATE REVISED -SCALE:

Page <u>1</u> of <u>3</u>

Date 9/14/22

SOIL BORING LOG

LOGGED BY M. Kaufman

ATION _, SEC. 11, TWP. 14S, RNG. 6E,

Crestwood Road Bridge

D		Lautu	HSA HAMMER	TYPE		AL	ЛО	
,	U C S Qu	M O I S T	Surface Water Elev Stream Bed Elev Groundwater Elev.: First Encounter406.0	_ ft _ ft _ ftΨ_	D E P T H	B L O W S	U C S Qu	M O I S T
')	(tsf)	(%)	After Hrs	_ ft	(ft)	(/6")	(tsf)	(%)
_		7	SILTY CLAY LOAM: Light brownish gray, moist, medium stiff to stiff [A-6] (continued)			1 3 8	0.9 S	20
			SANDY CLAY LOAM: Dark	433.50		3		
		4	yellowish brown to light brownish gray, moist, very stiff to hard [A-6]			16 26		12
					-25	2		
		13			_	4 13	0.7 S	14
						11		
) 2		11			_	25 26		11
				426.00	-30	1		
		13	gray, moist, soft [A-6]			2 1	0.4 S	20
;		12						
			SANDY CLAY LOAM: Light	421.00	-35	6		
>		14	brownish gray to gray, moist, medium stiff to hard [A-6]		_	17 24		9
	0.7 S	19 17			_			
					-40			

ilure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

)	ROAD		С.Н.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
м	20		8	21-00106-00-	BR	MASSAC	29	28
						CONTRACT	NO.: 99	738
	STA	TO STA.		ILLIN	IOIS	FED. AID PROJ	ECT:	

ROUTE	CH 8	DES	CRIPTIO	N		Crestwood Road Bridge	LOGG	ED BY	<u>и М. Ка</u>	aufmar	ROUTE	CH 8	DES	CRIPTI	_ ис
SECTION	21-00106-00-	BR		TION _	<u>, SEC.</u>	11, TWP. 14S, RNG. 6E,					SECTION	21-00106-00-BR		_ LOC	ATIO
COUNTY	Massac	ORILLING	METHOD		Latitu	de 37.232350, Longitude -88.631340 HSA HAMMER TYP	E	A	UTO		COUNTY	Massac DRII	LLING	METHO	D _
STRUCT. NO. Station	064-3157 (pro 	<u>)</u>	D B E L P O	U C S	M O I	Surface Water Elev ft Stream Bed Elev ft	D E P	B L O	U C S	M O I	STRUCT. NO. Station	064-3157 (prop) 	_ [D B E L P C	
BORING NO Station Offset	B-2 10+45 12.0 ft RT		T W H S	Qu	S T	Groundwater Elev.: First Encounter406.0 ft Upon Completion ft	▼ H	W S	Qu	S T	BORING NO. Station Offset	B-2 10+45 12.0 ft RT		T W H S	") (t
SANDY CLAY brownish gray t medium stiff to	LOAM: Light o gray, moist, hard [A-6]	<u> </u>	2 2 4		24	SANDY LOAM: Light brownish gray to light yellowish brown, moist to wet, loose to medium		(10) 4 6 9		25	SANDY LOAN gray to light ye moist to wet, lo	l: Light brownish llowish brown, bose to medium	_ π -	1 6 1	
(continued)		-	_			dense [A-2] <i>(continued)</i>		-			dense [A-2] <i>(c</i>	ontinued)	-		
		_						-					-		
SANDY LOAM	: Light brownish	411.00	-45 4		24		-65	2		20			-	-85 0	
moist to wet, lo dense [A-2]	ose to medium	-	8		24			4		20	End of Boring	3	69.50	3	
		-	_					-					-		
		- ¥	/-50				-70						-	-90	
		_	6		26		_	2 6		24			-		
		_											-		
		-	_					-					-		
		-	_										-		
		_	-55 2				-75	6					-	-95	
		_	4		21			6 14		23			-		
		-					_	-					-		
		_											-		
		_											-		
			-60				-80							-100	

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BBS, form 137 (Rev. 8-99)

Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

USER NAME = gsmothers PLOT SCALE = 40.0000 ' / in.	DESIGNED DRAWN CHECKED	REVISED	STATE OF ILLINOIS MASSAC COUNTY HIGHWAY DEPARTMENT		CRESTWOOD Soil Boring	RO GS
PLOT DATE = 5/24/2024	DATE	REVISED -		SCALE:		S

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SOIL BORING LOG

Date 9/14/22

Crestwood Road Bridge

LOGGED BY M. Kaufman

 DCATION
 , SEC. 11, TWP. 14S, RNG. 6E,

 Latitude
 37.232350, Longitude
 -88.631340

 HOD
 HSA
 HAMMER TYPE

HAMMER TYPE AUTO U Μ --- ft --- ft Surface Water Elev. C S 0 Stream Bed Elev. S Groundwater Elev.: Qu Т First Encounter 406.0 **ft**▼ Upon Completion /6") (tsf) (%) _--__ ft After ___ Hrs. 22 23

> TOTAL SHEETS SHEE NO. SECTION COUNTY OAD с.н. 8 21-00106-00-BR MASSAC 29 29 CONTRACT NO: 99738 TO STA. ILLINOIS FED, AID PROJECT: STA.